



May 6, 2022

Stora Enso C/O  
John T. Kolaga, Esq.  
Rupp Baase Pfalzgraf Cunningham LLC  
1600 Liberty Building  
Buffalo, New York 14202

**RE: PERIODIC PROGRESS REPORT – MAY 2022  
VAILS GATE MANUFACTURING, LLC  
VAILS GATE, NEW YORK, NYSDEC SITE NO. 336065**

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Dear Mr. Kolaga:

Leader Consulting Services, Inc. (“Leader”) is pleased to provide Rupp Baase Pfalzgraf Cunningham, LLC (“RBFC”), on behalf of Stora Enso, with this Periodic Progress Report summarizing the Remediation and Sampling Activities at the former Vails Gate Manufacturing facility (“VGM”) at 1073 Route 94 in Vails Gate, New York (hereafter referred to as “the Site”) through March 2022. The Site is currently identified as the Vails Gate Business Center (“VGBC”).

#### **1.0 BACKGROUND**

Leader was retained to implement the New York State Department of Environmental Conservation (“NYSDEC”)-approved Remedial Action Work Plan (“RAWP”) that was developed for Area of Concern 6 (“AOC 6”) at the Site. As identified in the approved RAWP, In-situ bioremediation was the selected remedial alternative identified in the NYSDEC-approved Corrective Measure Study (“CMS”).

The Site-specific Standards, Criteria and Guidance (“SCGs”) applicable to the RAWP were developed to meet the Remedial Action Objectives (“RAOs”) of the CMS. An “unrestricted use remedy” has been established for the Site, which is based on the regulatory standard values for Class GA groundwater identified in 6 NYCRR Part 703.5. The RAWP was developed to address the SCGs and RAOs for the Site. The RAWP has been implemented in accordance with NYSDEC Department of Environmental Remediation (“DER”) Guidance Document DER-10, *Technical Guidance for Site Investigation and Remediation*.

The In-Situ Bioremediation program identified in the RAWP was based on the March 2012 Phase II RCRA Facility Investigation (“RFI”) and the 2013 CMS. Quarterly sampling and laboratory analyses of groundwater samples from four (4) groundwater monitoring wells (MW-14, MW-5A/AR, MW-16 and MW-CHA-RFI-7) was required per the RAWP.

A Site Management Plan (“SMP”) was approved by NYSDEC after the final Quarterly Sampling event was completed. This SMP required the following to be completed during the 2019/2020 heating season: 1) Evaluation and repair (if needed) of existing Sub Slab Depressurization System (“SSDS”) in Space 15; 2) Indoor Air Sampling and Testing in the Tesla Space (formerly Solar City); and 3) Groundwater sampling and testing of MW-SA/AR and MW-14.



## **2.0 SCOPE-OF-WORK**

The scope of work for this Periodic Progress Report is based on the NYSDEC – approved September 10, 2021 Remedial Monitoring/Closure Assessment Work Plan (the “Work Plan”) is to summarize the status of Remedial Actions accomplished through April 2022 and the results of the Work Plan activities conducted in late 2021 and the early 2022.

## **3.0 PROGRESS THROUGH MARCH 2021**

Groundwater sampling was conducted at the Site from June 2011 through October 2021. The sampling events were designed to evaluate the success of the Bioremediation Activities. The Post–Remediation sampling and analysis includes the typical parameters of volatile organic compounds (“VOCs”), sulfate, total organic carbon (“TOC”), and dissolved iron (“DI”) and the field parameters of dissolved oxygen (“DO”), pH, oxidation reduction potential (“redox”), temperature and turbidity. Groundwater sample locations at MW-CHA-RFI-7 meet the Class GA groundwater standards as of the August 2017 sampling event and were not sampled during the October 2021 sampling event.

For the purpose of assessing the continued viability of the bioremediation medium, periodic sampling of the groundwater was conducted. Laboratory data are reviewed to evaluate analyte concentrations from groundwater samples from three (3) of the on-Site monitoring wells. The results are compared to previous data generated during RAWP implementation (i.e, bioremediation sampling and analysis) and the SCGS.

Prior to the October 2021 groundwater monitoring well sampling event, Pace Analytical was retained to complete a Monitoring Well Assessment. Pace Analytical visited the Site and assessed the operability of the following monitoring Wells: MW-5A/AR, MW-14, MW-16, MW-13, and MW-CHA-RFI-2. This assessment involved opening the wells and drawing a well volume with a bailer to evaluate the operability of the well and use for future sampling. If the well recharged to the original water level, it was considered acceptable for future sampling. This assessment was completed on September 2, 2021 and the Work Plan was updated accordingly to include these (3) operable monitoring wells. Leader retained Pace Analytical to visit the Site and develop and sample the monitoring wells. Three (3) well volumes were evacuated from each will in accordance with the existing QAPP for the Site. The groundwater samples were taken to Place Analytical laboratories and tested for the following parameters at the locations listed under Category B:

- 1) TCL VOCs (MW-5A/AR, MW-14 and MW-16); and
- 2) 1,4 Dioxane (MW-5A/AR, MW-14 and MW-16).

The October 2021 sampling event involved the collection of groundwater samples from monitoring wells MW-5A/AR, MW-14 and MW-16. These laboratory reports are included in Attachment A. The groundwater sample from MW-5A/AR detected 1,1-dichloroethane and Chloroethane above the Class GA groundwater standard. Groundwater sample from MW-14 detected 1,1-dichloroethane above the Class GA groundwater standard. No analytes were detected above the groundwater standards at MW-16 during the October 2021 sampling event. These results are similar to previous post-remediation data and indicate the remedy is still achieving the RAOs.



1,4 Dioxane was also detected in all three (3) monitoring wells (i.e., 75.7 parts per billion [“ppb”] in MW-5A/AR, 108 ppb in MW-14 and 2.2 in MW-16). The New York State adopted MCL and drinking water standard for 1,4-Dioxane is 1ppb. In a September 2020 memorandum published by the NYSDOH, it states that “Because MCLs are set at levels with a large margin of protection, an exceedance of an MCL does not mean that water is unsafe for use while the public water system takes actions to reduce levels.” Because groundwater at the Site is not used, the marginal exceedance detected in the three (3) wells is not considered to be of concern.

Indoor Air Sampling is conducted periodically to assess the adequacy of the vapor mitigation system. Leader sampled the Indoor Air in March 2022 and the laboratory results are included in Attachment B. Air sample results were below the NYSDOH 2003 Indoor Air Study of VOCs in Air of Oil Fueled Homes Guidelines for the contaminants potentially related to this Remedial Action. There were no integrity issues with the bioremediation remedial systems at the Site. MW-5A/AR and MW-14 were in satisfactory operating condition; however, MW-14 is in a depressed area of the parking lot and was under surface water during the October 2021 sampling event. The concrete floor above the area where bio-remediation material had been injected was in good condition.

Engineering Controls include the SSDS which was installed in Space 15 in February 2010. The vapor mitigation system was inspected by Alpine Environmental Services, Inc. in June 2011, April 2012, February 2018, March 2020 and January 2021. The March 2022 vapor mitigation system inspection assessed the operating conditions and involved maintenance and repair of the system. The SSDS Assessment Report is included in Attachment C. During the March 2022 inspection no deficiencies were observed or noted.

Institutional Controls (“IC”) were previously implemented to prevent future exposure to the remaining contamination and limit the development of the Site.

#### **4.0 REMEDIAL ACTION OBJECTIVES**

The RAOs for the Site are listed in the CMS and RAWP dated February and July 2014, respectively. They identify the Site specific Standards, Criteria and Guidance (“SCGs”) applicable to the Site and have been selected to meet the overall RAOs of the CMS. An unrestricted use remedy has been established for the Site, which is based on the regulatory standard values for Class GA groundwater identified in 6 NYCRR Part 703.5. This detailed In-situ bioremediation RAWP was designed to address the SCGs and the RAOs for the Site.

##### **4.1 Groundwater - RAOs for Public Health Protection**

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

The groundwater is not used as a public drinking water supply or used as process water within the facility. Therefore, the above RAOs have been met.

#### 4.2 Groundwater - RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

The Site is in the post-bioremediation phase. There is no release of groundwater into the surface waters.

#### 4.3 Soil - RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

A portion of the oil/water separator and 500-gallon overflow tank was removed along with the excavation of the surrounding contaminated soils. The impact to the groundwater is being bio remediated and monitored.

#### 4.4 Soil - RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.
- The area where the remediation activities occurred is covered in asphalt or concrete. There is no direct contact with or migration from the former remediation area.

#### 4.5 Soil Vapor RAOs

The RAOs established for sub-slab and indoor air samples collected within the Main Building at the Site are based on the decision matrices that are presented in the New York State Department of Health (“NYSDOH”) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York, and screening levels specified in the 2001 USEPA Indoor Air Building Assessment and Survey Evaluation (“BASE”) Database, 90th Percentile of Indoor Air Results. In general, the RAO for Public Health Protection is to mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a Site. The March 2022 Indoor Air Sampling results in the Tesla Space indicate that levels are below applicable NYSDOH guidelines for the VOCs related to this Remedial Action.



Based on the activities conducted to date, all of the ROAs have been satisfied.

## **5.0 2022 GROUNDWATER AND INDOOR AIR SAMPLING RESULTS**

This section includes more details pertaining to the Groundwater and Indoor Air Sampling testing activities. All field activities were implemented in general accordance with the NYSDEC approved QAPP and HASP.

### **5.1 Groundwater Sampling Results**

#### GWM Well MW-5A/AR

Chloroethane concentrations increased from a reported value of non-detected (“ND”) in March 2021, to a concentration of 35 ppb in October 2021 which is above the Class GA groundwater standard of 5 ppb.

1,1-dichloroethane concentrations increased from 1.2 ppb in March 2021 to 8.8 ppb in October 2021 which is above the Class GA groundwater standard of 5 ppb.

1,1,1-Trichloroethane and toluene concentrations were detected in the October sampling event. However both were below the Class GA groundwater standards of 5 ppb.

1,4-Dioxane was detected at 75.7 ppb, above the Drinking Water MCL of 1ppb.

The remaining VOC analytes were not detected within the October 2021 sample.

#### GWM Well MW-14

Chloroethane concentrations decreased from 3.8 ppb in March 2021 to non-detect in October 2021 and remains below the Class GA groundwater standard of 5 ppb.

1,1-dichloroethane concentrations increased from 6.1 in March 2021 to 15.1 ppb in October 2021 which is above the Class GA groundwater standard of 5 ppb.

1,1-dichloroethene concentrations were detected at 1.9 ppb in March 2021 which is below the Class GA groundwater standard of 5 ppb.

Vinyl Chloride concentrations have decreased from to 3.8 ppb in March 2021 to non-detect in October 2021 which is below the Class GA groundwater standard of 2 ppb.

1,4 Dioxane was detected at 108 ppb, above the Drinking Water MCL of 1 ppb.

The remaining VOC analytes were not detected within the October 2021 samples.

#### GWM Well MW-16

1,1-dichloroethane and 1,1-dichloroethene concentrations were detected below the Class GA groundwater standards of 5 ppb.



1,4 Dioxane was detected at 2.2 ppb, above the Drinking Water MCL of 1 ppb.

The updated Groundwater Sampling Results spreadsheet is included in Attachment A (Tables 1a, 1b, 1c, Table 2 Field Data, and Table 3 Reductive Dechlorination).

## **5.2 Indoor Air Quality Results**

An indoor air sample was collected in the Tesla Space near MW-5R/AR. The sample was analyzed by Centek Laboratories (See Attachment C).

The March 2022 indoor air sampling results are summarized below in Table 1. All Levels detected were below applicable guidance values or standards.



**Table 1**  
**March 2022 Indoor Air Quality Sampling Results**

VOC	Vails Gate – Space 15 ( $\mu\text{g}/\text{m}^3$ )			NYSDOH Indoor Air Guideline ( $\mu\text{g}/\text{m}^3$ )	NYSDOH 2003 BASE Levels ( $\mu\text{g}/\text{m}^3$ )
	1- VG Storage and Shelving Area	1-VG MS/MSD Storage and Shelving Area	Detection Limits		
					<b>95<sup>th</sup> Percentile</b>
1,1-dichlorethene	ND	ND	0.16	NA	0.7
1,1,1- trichloroethane	ND	ND	0.82	NA	6.9
1,2,4- Trimethylbenzene	3.0	3.0	0.74	NA	18
1,3,5- Trimethylbenzene	0.84	1.0	0.74	NA	6.5
2,2,4- trimethylpentane	1.5	1.4	0.70J	NA	Not Established
4-ethyltoluene	1.0	1.1	0.74	NA	3.6
Acetone	15	19	NA	NA	140
Benzene	3.3	3.1	NA	NA	29
Carbon tetrachloride	0.44	0.57	NA	NA	1.1
Chloromethane	0.93	0.95	NA	NA	5.2
Cyclohexane	3.8	3.6	NA	NA	19
Ethyl acetate	0.47	0.58	NA	NA	Not established
Ethylbenzene	2.0	2.0	0.65	NA	13
Freon 11	1.3	1.4	NA	NA	Not Established
Freon 12	2.4	2.4	NA	NA	Not Established
Heptane	1.2	1.4	NA	NA	Not Established
Hexane	2.0	1.8	NA	NA	Not Established
Isopropyl alcohol	2.5	3.1	NA	NA	Not Established
m&p-Xylene	5.9	5.6	NA	NA	21
Methyl Ethyl Ketone	1.9	1.9	NA	NA	39
Methyl Isobutyl Ketone	0.61	ND	1.2	NA	5.3
Methylene chloride	1.3	1.3	NA	60	45



VOC	Vails Gate – Space 15 ( $\mu\text{g}/\text{m}^3$ )		Detection Limits	NYSDOH Indoor Air Guideline ( $\mu\text{g}/\text{m}^3$ )	NYSDOH 2003 BASE Levels ( $\mu\text{g}/\text{m}^3$ )
	1- VG Storage and Shelving Area	1-VG MS/MSD Storage and Shelving Area			
					<b>95<sup>th</sup> Percentile</b>
o-Xylene	2.0	2.2	NA	NA	13
Styrene	1.2	1.3	NA	NA	2.3
Toluene	11	12	NA	NA	110

## 6.0 SUMMARY

The following summarizes the tasks that were completed in late 2021 and early 2022 and the status of Remedial Actions:

- 1) The indoor air was sampled and a visual evaluation of the remedial measures was completed on March 9, 2022;
- 2) The SSDS system evaluation was conducted on March 18, 2022; and,
- 3) The groundwater sampling and testing program was conducted on October 15, 2021.

The SSDS system is currently in good operating condition.

The monitoring of three (3) groundwater monitoring wells will be conducted annually. Below is a summary of the monitoring wells that contained contaminants that exceeded applicable standards in October 2021.

Monitoring Well	Analyte	Result	GA Standard
MW-5A/AR	1,1-Dichloroethane	8.8 $\mu\text{g}/\text{l}$	5 $\mu\text{g}/\text{l}$
MW-5A/AR	Chloroethane	35 $\mu\text{g}/\text{l}$	5 $\mu\text{g}/\text{l}$
MW-5A/AR	1,4 Dioxane	75.7 $\mu\text{g}/\text{l}$	1 $\mu\text{g}/\text{l}$
MW-14	1,1-Dichloroethane	15.1 $\mu\text{g}/\text{l}$	5 $\mu\text{g}/\text{l}$
MW-14	1,4 Dioxane	108 $\mu\text{g}/\text{l}$	1 $\mu\text{g}/\text{l}$
MW-14	1,4 Dioxane	2.2 $\mu\text{g}/\text{l}$	1 $\mu\text{g}/\text{l}$

The overall VOC levels have remained relatively constant since 2017 with only marginal exceedances of six (6) VOC groundwater standards. The remedial system is achieving the RAOs.

The Indoor Air Monitoring in the Tesla Space levels were below applicable guidance values. The indoor air at the facility satisfies the ROAs.



John T. Kolaga, Esq.  
May 6, 2022  
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If you need any additional information, please contact the undersigned at (716) 565-0963.

Very truly yours,  
Leader Consulting Services, Inc.

A handwritten signature in black ink that reads "Jeffrey A. Wittlinger". The signature is written in a cursive style with a large initial "J".

Jeffrey A. Wittlinger, P.E., BCEE  
President

# **Attachment A**

## **Groundwater Analytical Data**



# Analytical Data Package

**Prepared by:**

**Pace Analytical Services**

**Pace Project No.: 70191351**

## Project Overview

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November 16, 2021

Jeffrey A. Wittlinger  
Leader Consulting Services, Inc.  
2813 Wehrle Drive  
Suite 1  
Buffalo, NY 14221

RE: Project: VAILS GATE MANUFACTURING 10/15  
Pace Project No.: 70191351

Dear Jeffrey Wittlinger:

Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

REVISION 1: REPORT RE-ISSUED 11/11/2021 TO INCLUDE CASE NARRATIVE

REVISION 2: REPORT RE-ISSUED TO UPDATE QUALIFIERS

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lea Sherman  
lea.sherman@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Marybeth Cerrone, Leader Consulting Services  
Keith Keller, Leader Consulting Services



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

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**Date:** November 16, 2021

**MS (Lab ID: 1160403)**

- 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

**MSD (Lab ID: 1160404)**

- 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

**MW-5A/AR MS/MSD (Lab ID: 70191351001)**

- 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

**MW-14 (Lab ID: 70191351002)**

- 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

**MW-16 (Lab ID: 70191351003)**

- 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

**TRIP BLANK (Lab ID: 70191351004)**

- 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

---

**Method:** EPA 8260C SIM/5030C

**Description:** 8260C SIM Volatile Organics

**Client:** Leader Consulting Services

**Date:** November 16, 2021

**General Information:**

3 samples were analyzed for EPA 8260C SIM/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 230125

S0: Surrogate recovery outside laboratory control limits.

- MS (Lab ID: 1161148)
- 4-Bromofluorobenzene (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: VAILS GATE MANUFACTURING 10/15  
Pace Project No.: 70191351

---

**Method:** EPA 8260C/5030C  
**Description:** 8260C Volatile Organics  
**Client:** Leader Consulting Services  
**Date:** November 16, 2021

### General Information:

4 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 230015

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- LCS (Lab ID: 1160402)
  - Acetone
- MS (Lab ID: 1160403)
  - Acetone
- MSD (Lab ID: 1160404)
  - Acetone

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 230015

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- MS (Lab ID: 1160403)
  - Acetone
- MSD (Lab ID: 1160404)
  - Acetone

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1160401)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Vinyl chloride
- LCS (Lab ID: 1160402)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane

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## PROJECT NARRATIVE

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** Leader Consulting Services

**Date:** November 16, 2021

QC Batch: 230015

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Vinyl chloride
- MS (Lab ID: 1160403)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Vinyl chloride
- MSD (Lab ID: 1160404)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Vinyl chloride
- MW-14 (Lab ID: 70191351002)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Vinyl chloride
- MW-16 (Lab ID: 70191351003)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Vinyl chloride
- MW-5A/AR MS/MSD (Lab ID: 70191351001)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Vinyl chloride
- TRIP BLANK (Lab ID: 70191351004)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Vinyl chloride

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## PROJECT NARRATIVE

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** Leader Consulting Services

**Date:** November 16, 2021

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 230015

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70191351001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1160403)
  - Chloroethane
  - Methylene Chloride

R1: RPD value was outside control limits.

- MSD (Lab ID: 1160404)
  - 1,1-Dichloroethane
  - Chloroethane
  - Methylene Chloride

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: MW-5A/AR MS/MSD	Lab ID: 70191351001	Collected: 10/15/21 11:30	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>								
Analytical Method: Pace Analytical Services - Melville								
Field pH	6.77	Std. Units		1		10/15/21 11:30		
Field Temperature	21.1	deg C		1		10/15/21 11:30		
Field Specific Conductance	640.1	umhos/cm		1		10/15/21 11:30		
Oxygen, Dissolved	2.86	mg/L		1		10/15/21 11:30	7782-44-7	
Eh	-78	mV		1		10/15/21 11:30		
Field Turbidity	29.7	NTU		1		10/15/21 11:30		
<b>8260C SIM Volatile Organics</b>								
Analytical Method: EPA 8260C SIM/5030C								
Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	75.7	ug/L	1.0	5		10/20/21 20:45	123-91-1	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	99	%	43-153	5		10/20/21 20:45	2199-69-1	
4-Bromofluorobenzene (S)	112	%	79-139	5		10/20/21 20:45	460-00-4	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:20	630-20-6	
1,1,1-Trichloroethane	2.1	ug/L	1.0	1		10/20/21 10:20	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:20	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:20	79-00-5	
1,1-Dichloroethane	8.8	ug/L	1.0	1		10/20/21 10:20	75-34-3	R1
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:20	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:20	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	87-61-6	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:20	96-18-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	95-63-6	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		10/20/21 10:20	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		10/20/21 10:20	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:20	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:20	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:20	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	106-46-7	
1,4-Dioxane (p-Dioxane)	<100	ug/L	100	1		10/20/21 10:20	123-91-1	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:20	594-20-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/20/21 10:20	78-93-3	v3
2-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:20	95-49-8	
2-Hexanone	<5.0	ug/L	5.0	1		10/20/21 10:20	591-78-6	v3
4-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:20	106-43-4	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/20/21 10:20	108-10-1	
Acetone	<5.0	ug/L	5.0	1		10/20/21 10:20	67-64-1	
Benzene	<1.0	ug/L	1.0	1		10/20/21 10:20	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	108-86-1	

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: MW-5A/AR MS/MSD	Lab ID: 70191351001	Collected: 10/15/21 11:30	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Bromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:20	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/20/21 10:20	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/20/21 10:20	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		10/20/21 10:20	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		10/20/21 10:20	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/20/21 10:20	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	108-90-7	
Chloroethane	35.0	ug/L	1.0	1		10/20/21 10:20	75-00-3	M1,R1, v3
Chloroform	<1.0	ug/L	1.0	1		10/20/21 10:20	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		10/20/21 10:20	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:20	124-48-1	
Dibromomethane	<1.0	ug/L	1.0	1		10/20/21 10:20	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:20	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		10/20/21 10:20	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/20/21 10:20	98-82-8	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		10/20/21 10:20	1634-04-4	
Methylene Chloride	<1.0	ug/L	1.0	1		10/20/21 10:20	75-09-2	M1,R1
Naphthalene	<1.0	ug/L	1.0	1		10/20/21 10:20	91-20-3	
Styrene	<1.0	ug/L	1.0	1		10/20/21 10:20	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/20/21 10:20	127-18-4	
Toluene	1.3	ug/L	1.0	1		10/20/21 10:20	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:20	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:20	75-69-4	
Vinyl acetate	<1.0	ug/L	1.0	1		10/20/21 10:20	108-05-4	
Vinyl chloride	<1.0	ug/L	1.0	1		10/20/21 10:20	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		10/20/21 10:20	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:20	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:20	10061-01-5	
m&p-Xylene	<2.0	ug/L	2.0	1		10/20/21 10:20	179601-23-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	103-65-1	
o-Xylene	<1.0	ug/L	1.0	1		10/20/21 10:20	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		10/20/21 10:20	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:20	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:20	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:20	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	94	%	81-122	1		10/20/21 10:20	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		10/20/21 10:20	460-00-4	
Toluene-d8 (S)	101	%	82-122	1		10/20/21 10:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: MW-14	Lab ID: 70191351002	Collected: 10/15/21 12:20	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>								
Analytical Method: Pace Analytical Services - Melville								
Field pH	6.76	Std. Units		1		10/15/21 12:20		
Field Temperature	22.1	deg C		1		10/15/21 12:20		
Field Specific Conductance	643.6	umhos/cm		1		10/15/21 12:20		
Oxygen, Dissolved	5.61	mg/L		1		10/15/21 12:20	7782-44-7	
Eh	64	mV		1		10/15/21 12:20		
Field Turbidity	111	NTU		1		10/15/21 12:20		
<b>8260C SIM Volatile Organics</b>								
Analytical Method: EPA 8260C SIM/5030C								
Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	108	ug/L	2.0	10		10/20/21 19:16	123-91-1	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	116	%	43-153	10		10/20/21 19:16	2199-69-1	
4-Bromofluorobenzene (S)	123	%	79-139	10		10/20/21 19:16	460-00-4	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:39	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:39	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:39	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:39	79-00-5	
1,1-Dichloroethane	15.1	ug/L	1.0	1		10/20/21 10:39	75-34-3	
1,1-Dichloroethene	1.9	ug/L	1.0	1		10/20/21 10:39	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:39	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	87-61-6	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:39	96-18-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	95-63-6	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		10/20/21 10:39	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		10/20/21 10:39	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:39	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:39	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:39	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	106-46-7	
1,4-Dioxane (p-Dioxane)	<100	ug/L	100	1		10/20/21 10:39	123-91-1	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:39	594-20-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/20/21 10:39	78-93-3	v3
2-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:39	95-49-8	
2-Hexanone	<5.0	ug/L	5.0	1		10/20/21 10:39	591-78-6	v3
4-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/20/21 10:39	108-10-1	
Acetone	<5.0	ug/L	5.0	1		10/20/21 10:39	67-64-1	
Benzene	<1.0	ug/L	1.0	1		10/20/21 10:39	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	108-86-1	

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: MW-14	Lab ID: 70191351002	Collected: 10/15/21 12:20	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Bromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:39	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/20/21 10:39	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/20/21 10:39	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		10/20/21 10:39	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		10/20/21 10:39	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/20/21 10:39	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		10/20/21 10:39	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		10/20/21 10:39	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		10/20/21 10:39	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:39	124-48-1	
Dibromomethane	<1.0	ug/L	1.0	1		10/20/21 10:39	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:39	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		10/20/21 10:39	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/20/21 10:39	98-82-8	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		10/20/21 10:39	1634-04-4	
Methylene Chloride	<1.0	ug/L	1.0	1		10/20/21 10:39	75-09-2	
Naphthalene	<1.0	ug/L	1.0	1		10/20/21 10:39	91-20-3	
Styrene	<1.0	ug/L	1.0	1		10/20/21 10:39	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/20/21 10:39	127-18-4	
Toluene	<1.0	ug/L	1.0	1		10/20/21 10:39	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:39	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:39	75-69-4	
Vinyl acetate	<1.0	ug/L	1.0	1		10/20/21 10:39	108-05-4	
Vinyl chloride	<1.0	ug/L	1.0	1		10/20/21 10:39	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		10/20/21 10:39	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:39	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:39	10061-01-5	
m&p-Xylene	<2.0	ug/L	2.0	1		10/20/21 10:39	179601-23-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	103-65-1	
o-Xylene	<1.0	ug/L	1.0	1		10/20/21 10:39	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		10/20/21 10:39	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:39	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:39	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:39	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	81-122	1		10/20/21 10:39	17060-07-0	
4-Bromofluorobenzene (S)	102	%	79-118	1		10/20/21 10:39	460-00-4	
Toluene-d8 (S)	103	%	82-122	1		10/20/21 10:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: MW-16	Lab ID: 70191351003	Collected: 10/15/21 12:10	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>								
Analytical Method: Pace Analytical Services - Melville								
Field pH	6.91	Std. Units		1		10/15/21 12:10		
Field Temperature	21.2	deg C		1		10/15/21 12:10		
Field Specific Conductance	471.1	umhos/cm		1		10/15/21 12:10		
Oxygen, Dissolved	3.34	mg/L		1		10/15/21 12:10	7782-44-7	
Eh	87	mV		1		10/15/21 12:10		
Field Turbidity	72.4	NTU		1		10/15/21 12:10		
<b>8260C SIM Volatile Organics</b>								
Analytical Method: EPA 8260C SIM/5030C								
Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	2.2	ug/L	0.20	1		10/20/21 18:32	123-91-1	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	97	%	43-153	1		10/20/21 18:32	2199-69-1	
4-Bromofluorobenzene (S)	95	%	79-139	1		10/20/21 18:32	460-00-4	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:58	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:58	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:58	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:58	79-00-5	
1,1-Dichloroethane	1.8	ug/L	1.0	1		10/20/21 10:58	75-34-3	
1,1-Dichloroethene	1.2	ug/L	1.0	1		10/20/21 10:58	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:58	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	87-61-6	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:58	96-18-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	95-63-6	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		10/20/21 10:58	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		10/20/21 10:58	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:58	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:58	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:58	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	106-46-7	
1,4-Dioxane (p-Dioxane)	<100	ug/L	100	1		10/20/21 10:58	123-91-1	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:58	594-20-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/20/21 10:58	78-93-3	v3
2-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:58	95-49-8	
2-Hexanone	<5.0	ug/L	5.0	1		10/20/21 10:58	591-78-6	v3
4-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:58	106-43-4	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/20/21 10:58	108-10-1	
Acetone	<5.0	ug/L	5.0	1		10/20/21 10:58	67-64-1	
Benzene	<1.0	ug/L	1.0	1		10/20/21 10:58	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	108-86-1	

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: MW-16	Lab ID: 70191351003	Collected: 10/15/21 12:10	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Bromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:58	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/20/21 10:58	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/20/21 10:58	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		10/20/21 10:58	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		10/20/21 10:58	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/20/21 10:58	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		10/20/21 10:58	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		10/20/21 10:58	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		10/20/21 10:58	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:58	124-48-1	
Dibromomethane	<1.0	ug/L	1.0	1		10/20/21 10:58	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:58	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		10/20/21 10:58	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/20/21 10:58	98-82-8	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		10/20/21 10:58	1634-04-4	
Methylene Chloride	<1.0	ug/L	1.0	1		10/20/21 10:58	75-09-2	
Naphthalene	<1.0	ug/L	1.0	1		10/20/21 10:58	91-20-3	
Styrene	<1.0	ug/L	1.0	1		10/20/21 10:58	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/20/21 10:58	127-18-4	
Toluene	<1.0	ug/L	1.0	1		10/20/21 10:58	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:58	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:58	75-69-4	
Vinyl acetate	<1.0	ug/L	1.0	1		10/20/21 10:58	108-05-4	
Vinyl chloride	<1.0	ug/L	1.0	1		10/20/21 10:58	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		10/20/21 10:58	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:58	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:58	10061-01-5	
m&p-Xylene	<2.0	ug/L	2.0	1		10/20/21 10:58	179601-23-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	103-65-1	
o-Xylene	<1.0	ug/L	1.0	1		10/20/21 10:58	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		10/20/21 10:58	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:58	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:58	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:58	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		10/20/21 10:58	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		10/20/21 10:58	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		10/20/21 10:58	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: TRIP BLANK	Lab ID: 70191351004	Collected: 10/15/21 12:10	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:00	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:00	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/20/21 10:00	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:00	79-00-5	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:00	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:00	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:00	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	87-61-6	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:00	96-18-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	95-63-6	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		10/20/21 10:00	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		10/20/21 10:00	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/20/21 10:00	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:00	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:00	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	106-46-7	
1,4-Dioxane (p-Dioxane)	<100	ug/L	100	1		10/20/21 10:00	123-91-1	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/20/21 10:00	594-20-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/20/21 10:00	78-93-3	v3
2-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:00	95-49-8	
2-Hexanone	<5.0	ug/L	5.0	1		10/20/21 10:00	591-78-6	v3
4-Chlorotoluene	<1.0	ug/L	1.0	1		10/20/21 10:00	106-43-4	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/20/21 10:00	108-10-1	
Acetone	<5.0	ug/L	5.0	1		10/20/21 10:00	67-64-1	
Benzene	<1.0	ug/L	1.0	1		10/20/21 10:00	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:00	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/20/21 10:00	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/20/21 10:00	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		10/20/21 10:00	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		10/20/21 10:00	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/20/21 10:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		10/20/21 10:00	75-00-3	v3
Chloroform	<1.0	ug/L	1.0	1		10/20/21 10:00	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		10/20/21 10:00	74-87-3	v3
Dibromochloromethane	<1.0	ug/L	1.0	1		10/20/21 10:00	124-48-1	
Dibromomethane	<1.0	ug/L	1.0	1		10/20/21 10:00	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:00	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	1		10/20/21 10:00	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		10/20/21 10:00	98-82-8	

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### ANALYTICAL RESULTS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Sample: TRIP BLANK	Lab ID: 70191351004	Collected: 10/15/21 12:10	Received: 10/16/21 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		10/20/21 10:00	1634-04-4	
Methylene Chloride	<1.0	ug/L	1.0	1		10/20/21 10:00	75-09-2	
Naphthalene	<1.0	ug/L	1.0	1		10/20/21 10:00	91-20-3	
Styrene	<1.0	ug/L	1.0	1		10/20/21 10:00	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/20/21 10:00	127-18-4	
Toluene	<1.0	ug/L	1.0	1		10/20/21 10:00	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:00	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		10/20/21 10:00	75-69-4	
Vinyl acetate	<1.0	ug/L	1.0	1		10/20/21 10:00	108-05-4	
Vinyl chloride	<1.0	ug/L	1.0	1		10/20/21 10:00	75-01-4	v3
Xylene (Total)	<3.0	ug/L	3.0	1		10/20/21 10:00	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:00	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:00	10061-01-5	
m&p-Xylene	<2.0	ug/L	2.0	1		10/20/21 10:00	179601-23-1	
n-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	103-65-1	
o-Xylene	<1.0	ug/L	1.0	1		10/20/21 10:00	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	1.0	1		10/20/21 10:00	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	1		10/20/21 10:00	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/20/21 10:00	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/20/21 10:00	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	81-122	1		10/20/21 10:00	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		10/20/21 10:00	460-00-4	
Toluene-d8 (S)	102	%	82-122	1		10/20/21 10:00	2037-26-5	

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### QUALITY CONTROL DATA

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

QC Batch:	230125	Analysis Method:	EPA 8260C SIM/5030C
QC Batch Method:	EPA 8260C SIM/5030C	Analysis Description:	8260C SIM 5030C
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70191351001, 70191351002, 70191351003

METHOD BLANK: 1160712 Matrix: Water

Associated Lab Samples: 70191351001, 70191351002, 70191351003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.20	0.20	10/20/21 15:20	
1,2-Dichlorobenzene-d4 (S)	%	96	43-153	10/20/21 15:20	
4-Bromofluorobenzene (S)	%	103	79-139	10/20/21 15:20	

LABORATORY CONTROL SAMPLE: 1160713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2.5	2.0	82	59-135	
1,2-Dichlorobenzene-d4 (S)	%			121	43-153	
4-Bromofluorobenzene (S)	%			90	79-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1161148 1161149

Parameter	Units	70191351001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
1,4-Dioxane (p-Dioxane)	ug/L	75.7	12.5	12.5	90.8	87.3	120	93	42-159	4				
1,2-Dichlorobenzene-d4 (S)	%						151	135	43-153					
4-Bromofluorobenzene (S)	%						141	130	79-139				S0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: VAILS GATE MANUFACTURING 10/15  
Pace Project No.: 70191351

QC Batch: 230015 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70191351001, 70191351002, 70191351003, 70191351004

METHOD BLANK: 1160401 Matrix: Water  
Associated Lab Samples: 70191351001, 70191351002, 70191351003, 70191351004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	10/20/21 08:12	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/20/21 08:12	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	10/20/21 08:12	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	10/20/21 08:12	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/20/21 08:12	
1,1-Dichloroethene	ug/L	<1.0	1.0	10/20/21 08:12	
1,1-Dichloropropene	ug/L	<1.0	1.0	10/20/21 08:12	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	10/20/21 08:12	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	10/20/21 08:12	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	10/20/21 08:12	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	10/20/21 08:12	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	10/20/21 08:12	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	10/20/21 08:12	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	10/20/21 08:12	
1,2-Dichloroethane	ug/L	<1.0	1.0	10/20/21 08:12	
1,2-Dichloropropane	ug/L	<1.0	1.0	10/20/21 08:12	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	10/20/21 08:12	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/20/21 08:12	
1,3-Dichloropropane	ug/L	<1.0	1.0	10/20/21 08:12	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/20/21 08:12	
1,4-Dioxane (p-Dioxane)	ug/L	<100	100	10/20/21 08:12	
2,2-Dichloropropane	ug/L	<1.0	1.0	10/20/21 08:12	
2-Butanone (MEK)	ug/L	<5.0	5.0	10/20/21 08:12	v3
2-Chlorotoluene	ug/L	<1.0	1.0	10/20/21 08:12	
2-Hexanone	ug/L	<5.0	5.0	10/20/21 08:12	v3
4-Chlorotoluene	ug/L	<1.0	1.0	10/20/21 08:12	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	10/20/21 08:12	
Acetone	ug/L	<5.0	5.0	10/20/21 08:12	
Benzene	ug/L	<1.0	1.0	10/20/21 08:12	
Bromobenzene	ug/L	<1.0	1.0	10/20/21 08:12	
Bromochloromethane	ug/L	<1.0	1.0	10/20/21 08:12	
Bromodichloromethane	ug/L	<1.0	1.0	10/20/21 08:12	
Bromoform	ug/L	<1.0	1.0	10/20/21 08:12	
Bromomethane	ug/L	<1.0	1.0	10/20/21 08:12	v3
Carbon disulfide	ug/L	<1.0	1.0	10/20/21 08:12	
Carbon tetrachloride	ug/L	<1.0	1.0	10/20/21 08:12	
Chlorobenzene	ug/L	<1.0	1.0	10/20/21 08:12	
Chloroethane	ug/L	<1.0	1.0	10/20/21 08:12	v3
Chloroform	ug/L	<1.0	1.0	10/20/21 08:12	
Chloromethane	ug/L	<1.0	1.0	10/20/21 08:12	v3

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: VAILS GATE MANUFACTURING 10/15  
Pace Project No.: 70191351

METHOD BLANK: 1160401 Matrix: Water  
Associated Lab Samples: 70191351001, 70191351002, 70191351003, 70191351004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/20/21 08:12	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	10/20/21 08:12	
Dibromochloromethane	ug/L	<1.0	1.0	10/20/21 08:12	
Dibromomethane	ug/L	<1.0	1.0	10/20/21 08:12	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/20/21 08:12	
Ethylbenzene	ug/L	<1.0	1.0	10/20/21 08:12	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	10/20/21 08:12	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	10/20/21 08:12	
m&p-Xylene	ug/L	<2.0	2.0	10/20/21 08:12	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	10/20/21 08:12	
Methylene Chloride	ug/L	<1.0	1.0	10/20/21 08:12	
n-Butylbenzene	ug/L	<1.0	1.0	10/20/21 08:12	
n-Propylbenzene	ug/L	<1.0	1.0	10/20/21 08:12	
Naphthalene	ug/L	<1.0	1.0	10/20/21 08:12	
o-Xylene	ug/L	<1.0	1.0	10/20/21 08:12	
p-Isopropyltoluene	ug/L	<1.0	1.0	10/20/21 08:12	
sec-Butylbenzene	ug/L	<1.0	1.0	10/20/21 08:12	
Styrene	ug/L	<1.0	1.0	10/20/21 08:12	
tert-Butylbenzene	ug/L	<1.0	1.0	10/20/21 08:12	
Tetrachloroethene	ug/L	<1.0	1.0	10/20/21 08:12	
Toluene	ug/L	<1.0	1.0	10/20/21 08:12	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/20/21 08:12	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	10/20/21 08:12	
Trichloroethene	ug/L	<1.0	1.0	10/20/21 08:12	
Trichlorofluoromethane	ug/L	<1.0	1.0	10/20/21 08:12	
Vinyl acetate	ug/L	<1.0	1.0	10/20/21 08:12	
Vinyl chloride	ug/L	<1.0	1.0	10/20/21 08:12	v3
Xylene (Total)	ug/L	<3.0	3.0	10/20/21 08:12	
1,2-Dichloroethane-d4 (S)	%	94	81-122	10/20/21 08:12	
4-Bromofluorobenzene (S)	%	101	79-118	10/20/21 08:12	
Toluene-d8 (S)	%	103	82-122	10/20/21 08:12	

LABORATORY CONTROL SAMPLE: 1160402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.4	97	75-122	
1,1,1-Trichloroethane	ug/L	50	45.7	91	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.7	93	70-127	
1,1,2-Trichloroethane	ug/L	50	46.2	92	81-119	
1,1-Dichloroethane	ug/L	50	44.8	90	72-126	
1,1-Dichloroethene	ug/L	50	54.9	110	66-133	
1,1-Dichloropropene	ug/L	50	42.7	85	69-124	
1,2,3-Trichlorobenzene	ug/L	50	47.3	95	50-143	
1,2,3-Trichloropropane	ug/L	50	46.0	92	69-120	

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### QUALITY CONTROL DATA

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

LABORATORY CONTROL SAMPLE: 1160402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	50.4	101	56-141	
1,2,4-Trimethylbenzene	ug/L	50	48.3	97	78-119	
1,2-Dibromo-3-chloropropane	ug/L	50	41.8	84	47-133	
1,2-Dibromoethane (EDB)	ug/L	50	46.6	93	81-123	
1,2-Dichlorobenzene	ug/L	50	49.7	99	80-117	
1,2-Dichloroethane	ug/L	50	44.3	89	69-134	
1,2-Dichloropropane	ug/L	50	47.3	95	75-125	
1,3,5-Trimethylbenzene	ug/L	50	49.4	99	78-121	
1,3-Dichlorobenzene	ug/L	50	49.2	98	82-116	
1,3-Dichloropropane	ug/L	50	48.8	98	81-118	
1,4-Dichlorobenzene	ug/L	50	48.8	98	80-117	
1,4-Dioxane (p-Dioxane)	ug/L	1250	1380	111	32-175	
2,2-Dichloropropane	ug/L	50	45.9	92	47-151	
2-Butanone (MEK)	ug/L	50	34.7	69	33-165 v3	
2-Chlorotoluene	ug/L	50	45.5	91	80-119	
2-Hexanone	ug/L	50	35.2	70	50-128 v3	
4-Chlorotoluene	ug/L	50	47.1	94	79-119	
4-Methyl-2-pentanone (MIBK)	ug/L	50	40.2	80	62-131	
Acetone	ug/L	50	30.1	60	14-156 IH	
Benzene	ug/L	50	49.9	100	78-117	
Bromobenzene	ug/L	50	49.0	98	80-117	
Bromochloromethane	ug/L	50	50.2	100	77-122	
Bromodichloromethane	ug/L	50	47.5	95	80-123	
Bromoform	ug/L	50	47.7	95	49-138	
Bromomethane	ug/L	50	26.8	54	10-143 v3	
Carbon disulfide	ug/L	50	46.7	93	66-133	
Carbon tetrachloride	ug/L	50	44.7	89	64-135	
Chlorobenzene	ug/L	50	48.8	98	79-117	
Chloroethane	ug/L	50	38.3	77	31-156 v3	
Chloroform	ug/L	50	46.7	93	79-123	
Chloromethane	ug/L	50	33.0	66	39-116 v3	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	77-125	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	78-131	
Dibromochloromethane	ug/L	50	46.2	92	65-123	
Dibromomethane	ug/L	50	48.6	97	81-123	
Dichlorodifluoromethane	ug/L	50	39.4	79	13-149	
Ethylbenzene	ug/L	50	47.1	94	79-115	
Hexachloro-1,3-butadiene	ug/L	50	39.5	79	55-142	
Isopropylbenzene (Cumene)	ug/L	50	46.2	92	74-118	
m&p-Xylene	ug/L	100	97.3	97	80-118	
Methyl-tert-butyl ether	ug/L	50	42.4	85	69-118	
Methylene Chloride	ug/L	50	45.1	90	67-123	
n-Butylbenzene	ug/L	50	46.3	93	74-126	
n-Propylbenzene	ug/L	50	45.9	92	75-120	
Naphthalene	ug/L	50	48.2	96	70-136	
o-Xylene	ug/L	50	51.4	103	80-119	
p-Isopropyltoluene	ug/L	50	48.2	96	78-122	

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### QUALITY CONTROL DATA

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

LABORATORY CONTROL SAMPLE: 1160402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	45.2	90	76-120	
Styrene	ug/L	50	51.5	103	82-121	
tert-Butylbenzene	ug/L	50	47.3	95	77-118	
Tetrachloroethene	ug/L	50	47.0	94	65-120	
Toluene	ug/L	50	47.0	94	80-114	
trans-1,2-Dichloroethene	ug/L	50	46.8	94	74-123	
trans-1,3-Dichloropropene	ug/L	50	48.0	96	73-135	
Trichloroethene	ug/L	50	46.2	92	79-115	
Trichlorofluoromethane	ug/L	50	52.0	104	51-136	
Vinyl acetate	ug/L	50	38.3	77	49-136	
Vinyl chloride	ug/L	50	37.3	75	49-118 v3	
Xylene (Total)	ug/L	150	149	99	80-118	
1,2-Dichloroethane-d4 (S)	%			95	81-122	
4-Bromofluorobenzene (S)	%			99	79-118	
Toluene-d8 (S)	%			102	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1160403 1160404

Parameter	70191351001		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	43.8	44.3	88	89	65-122	1	
1,1,1-Trichloroethane	ug/L	2.1	50	50	44.2	47.2	84	90	72-123	7	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	49.6	49.5	99	99	64-133	0	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	46.6	45.6	93	91	78-120	2	
1,1-Dichloroethane	ug/L	8.8	50	50	44.6	56.1	72	95	70-124	23 R1	
1,1-Dichloroethene	ug/L	<1.0	50	50	51.3	54.4	103	109	61-139	6	
1,1-Dichloropropene	ug/L	<1.0	50	50	44.1	43.0	88	86	71-125	2	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	43.0	46.7	86	93	48-140	8	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	46.4	44.5	93	89	64-120	4	
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	46.6	48.3	93	97	53-138	4	
1,2,4-Trimethylbenzene	ug/L	<1.0	50	50	53.3	49.1	107	98	70-128	8	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	45.4	45.1	91	90	32-137	1	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	46.0	44.9	92	90	78-121	2	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	46.5	47.2	93	94	75-120	2	
1,2-Dichloroethane	ug/L	<1.0	50	50	44.0	44.8	88	90	58-138	2	
1,2-Dichloropropane	ug/L	<1.0	50	50	46.4	45.5	93	91	74-122	2	
1,3,5-Trimethylbenzene	ug/L	<1.0	50	50	51.8	50.4	104	101	68-130	3	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	46.0	47.1	92	94	78-119	2	
1,3-Dichloropropane	ug/L	<1.0	50	50	47.3	45.0	95	90	74-118	5	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	46.3	45.9	93	92	76-118	1	
1,4-Dioxane (p-Dioxane)	ug/L	<100	1250	1250	1030	1200	82	96	10-192	16	
2,2-Dichloropropane	ug/L	<1.0	50	50	41.6	43.8	83	88	43-136	5	
2-Butanone (MEK)	ug/L	<5.0	50	50	41.1	39.3	82	79	33-148	4 v3	
2-Chlorotoluene	ug/L	<1.0	50	50	46.5	46.8	93	94	74-122	1	
2-Hexanone	ug/L	<5.0	50	50	36.0	37.9	72	76	49-124	5 v3	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: VAILS GATE MANUFACTURING 10/15  
Pace Project No.: 70191351

Parameter	70191351001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
4-Chlorotoluene	ug/L	<1.0	50	50	47.6	47.1	95	94	73-122	1				
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	43.9	44.1	88	88	60-136	0				
Acetone	ug/L	<5.0	50	50	33.2	29.6	66	59	35-112	11	IH,v1			
Benzene	ug/L	<1.0	50	50	50.0	49.5	100	99	70-130	1				
Bromobenzene	ug/L	<1.0	50	50	46.2	46.5	92	93	79-115	1				
Bromochloromethane	ug/L	<1.0	50	50	47.3	44.8	95	90	70-122	5				
Bromodichloromethane	ug/L	<1.0	50	50	45.8	44.9	92	90	74-122	2				
Bromoform	ug/L	<1.0	50	50	42.5	41.5	85	83	39-139	2				
Bromomethane	ug/L	<1.0	50	50	21.4	22.1	43	44	10-130	3	v3			
Carbon disulfide	ug/L	<1.0	50	50	44.7	44.0	89	88	60-129	2				
Carbon tetrachloride	ug/L	<1.0	50	50	45.2	50.4	90	101	56-143	11				
Chlorobenzene	ug/L	<1.0	50	50	45.8	45.7	92	91	74-122	0				
Chloroethane	ug/L	35.0	50	50	41.4	83.2	13	97	35-146	67	M1,R1,v3			
Chloroform	ug/L	<1.0	50	50	46.6	46.6	93	93	71-129	0				
Chloromethane	ug/L	<1.0	50	50	25.3	26.1	51	52	29-112	3	v3			
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	49.0	47.8	98	96	73-129	2				
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	46.3	46.7	93	93	67-130	1				
Dibromochloromethane	ug/L	<1.0	50	50	40.9	40.8	82	82	55-126	0				
Dibromomethane	ug/L	<1.0	50	50	47.5	46.2	95	92	71-127	3				
Dichlorodifluoromethane	ug/L	<1.0	50	50	20.3	20.7	41	41	10-123	2				
Ethylbenzene	ug/L	<1.0	50	50	44.9	44.9	90	90	70-126	0				
Hexachloro-1,3-butadiene	ug/L	<1.0	50	50	38.6	39.2	77	78	41-144	2				
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	46.4	47.8	93	96	68-127	3				
m&p-Xylene	ug/L	<2.0	100	100	96.8	91.4	97	91	79-123	6				
Methyl-tert-butyl ether	ug/L	<1.0	50	50	42.9	41.7	86	83	60-140	3				
Methylene Chloride	ug/L	<1.0	50	50	61.4	44.6	123	89	69-117	32	M1,R1			
n-Butylbenzene	ug/L	<1.0	50	50	48.3	50.0	97	100	64-136	4				
n-Propylbenzene	ug/L	<1.0	50	50	47.4	48.7	95	97	70-130	3				
Naphthalene	ug/L	<1.0	50	50	48.4	51.7	97	103	60-147	7				
o-Xylene	ug/L	<1.0	50	50	51.3	46.0	103	92	57-139	11				
p-Isopropyltoluene	ug/L	<1.0	50	50	49.3	50.2	99	100	71-130	2				
sec-Butylbenzene	ug/L	<1.0	50	50	47.5	48.1	95	96	69-129	1				
Styrene	ug/L	<1.0	50	50	47.3	47.3	95	95	79-123	0				
tert-Butylbenzene	ug/L	<1.0	50	50	47.2	49.1	94	98	71-126	4				
Tetrachloroethene	ug/L	<1.0	50	50	43.0	43.7	86	87	64-124	2				
Toluene	ug/L	1.3	50	50	49.9	48.2	97	94	76-123	4				
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	47.3	47.8	95	96	69-127	1				
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	43.9	44.2	88	88	61-130	1				
Trichloroethene	ug/L	<1.0	50	50	45.9	46.3	92	93	73-125	1				
Trichlorofluoromethane	ug/L	<1.0	50	50	43.2	44.1	86	88	59-129	2				
Vinyl acetate	ug/L	<1.0	50	50	42.0	39.2	84	78	34-123	7				
Vinyl chloride	ug/L	<1.0	50	50	35.6	37.1	71	74	33-127	4	v3			
Xylene (Total)	ug/L	<3.0	150	150	148	137	99	92	78-123	7				
1,2-Dichloroethane-d4 (S)	%						97	96	81-122					
4-Bromofluorobenzene (S)	%						101	101	79-118					
Toluene-d8 (S)	%						101	102	82-122					

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## QUALIFIERS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### SAMPLE QUALIFIERS

Sample: 70191351001

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

Sample: 70191351002

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

Sample: 70191351003

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

Sample: 70191351004

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

Sample: 1160403

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

Sample: 1160404

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

### ANALYTE QUALIFIERS

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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## QUALIFIERS

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

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### ANALYTE QUALIFIERS

- S0 Surrogate recovery outside laboratory control limits.
- v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
- v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VAILS GATE MANUFACTURING 10/15

Pace Project No.: 70191351

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70191351001	MW-5A/AR MS/MSD				
70191351002	MW-14				
70191351003	MW-16				
70191351001	MW-5A/AR MS/MSD	EPA 8260C SIM/5030C	230125		
70191351002	MW-14	EPA 8260C SIM/5030C	230125		
70191351003	MW-16	EPA 8260C SIM/5030C	230125		
70191351001	MW-5A/AR MS/MSD	EPA 8260C/5030C	230015		
70191351002	MW-14	EPA 8260C/5030C	230015		
70191351003	MW-16	EPA 8260C/5030C	230015		
70191351004	TRIP BLANK	EPA 8260C/5030C	230015		

### REPORT OF LABORATORY ANALYSIS

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LAB USE ONLY

WO#: 70191351



Chain-of-Custody Analytical Request Document

LAB USE ONLY

Company: Leader Professional Services  
 Address: 2813 Wehrle Drive, Suite 1  
 14221  
 Report To: Brian Demme bdemme@leadercs.com  
 Email To: bdemme@leadercs.com  
 Site Collection Info/Address: State NY County/City Time Zone Collected EST

Customer Project Name/Number: Vails Gate Manufacturing  
 Phone: 716-565-0963  
 Fax: [ ]  
 Collected by (print): Matt Broker (PACE)  
 Quote #  
 Turnaround Date Required: 2 Week  
 RUSH: [ ]  
 Sample Disposal: [ ] Return [ ] Archive [ ] Hold [ ]  
 Day 3 Day 4 Day 5 Day  
 (Expedite Charges Apply)

Customer Sample ID	Matrix*	Compl/Grab	Collected (or Composite) Date	Time	Composite End Date	Time	Res Cl	# of Cns
MW-5A/AR MS/MSD	GW	G	10/15/21	130				5
MW-14	GW	G	10/15/21	1720				5
MW-16	GW	G	10/15/21	1710				5
Trip Blank	W	G	10/15/21					2

Customer Remarks/Special Conditions/Possible Hazards: NYSDEC DER-10 EQUIS EDD, Category ASP B  
 Type of Ice Used: Wet [ ] Blue [ ] Dry [ ] None [ ]  
 Packing Material Used: LAB Trailing #: 5004 5210 0205  
 Samples received via: FEDBX [ ] UPS [ ] Client [ ] Courier [ ] Pace Courier [ ]  
 Radium sample(s) screened: [ ] Y [ ] N [ ] NA [ ]  
 (c-500 cpm): [ ] Y [ ] N [ ] NA [ ]

Date/Time:	Relinquished by/Company:	Signature:
10/15/21 1600	PACE	[Signature]

LAB Sample Receipt Checklist:  
 Custody Seals Present/Intact: Y N NA  
 Custody Signatures Present: Y N NA  
 Collector Signature Present: Y N NA  
 Bottles Intact: Y N NA  
 Correct Bottles: Y N NA  
 Sufficient Volume: Y N NA  
 Samples received on ice: Y N NA  
 VOA - Headspace Acceptable: Y N NA  
 USDA Regulated Soils: Y N NA  
 Samples in holding time: Y N NA  
 Residual Chlorine Present: Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable: Y N NA  
 pH Strips: Y N NA  
 Sulfide Present: Y N NA  
 Lead Acetate Strips: Y N NA

LAB Sample Temperature Info:  
 Temp Blank received: Y N NA  
 Therm ID #: 70191351  
 Cooler 1 Temp Upon Receipt: 1.3 oC  
 Cooler 1 Therm Corr. Factor: -1.1 oC  
 Cooler 1 Corrected Temp: 1.4 oC  
 Comments: [ ]  
 Trip Blank Received: [ ] N [ ] NA  
 (HCL) MeOH TSP Other  
 NonConformance(s) YES / NO  
 Page of

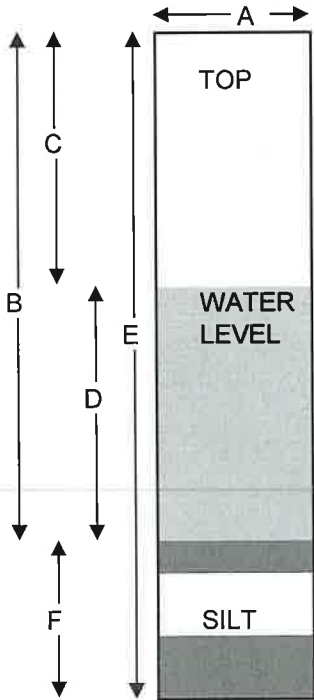
PACE Analytical Services, Inc. Ground water Field Log

Client: Leader Consulting  
 Project: Vails Gate Manufacturing  
 Well ID.: MW-5A/AR MS/MSD

**WO#: 70191351**

PM: LS1 Due Date: 11/01/21  
 CLIENT: LPS

Condition of Well: Metal cap can't close Locked: Yes  
 Method of Evacuation: Peristaltic Pump Lock ID: Flush  
 Method of Sampling: Peristaltic Pump



A.	Diameter of Well	<u>2.00</u>	inches
B.	Well Depth Measured	<u>6.50</u>	feet
C.	Depth to Water	<u>0.00</u>	feet
D.	Length of Water Column (calculated)	<u>6.50</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.04</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>3.12</u>	gallons
	Actual Volume Evacuated	<u>3.50</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>10/15/21</u>	<u>10/15/21</u>	
Time	<u>11:10</u>	<u>11:30</u>	
EH	<u>-72</u>	<u>-78</u>	mV
Temperature	<u>21.1</u>	<u>21.1</u>	C
pH	<u>6.57</u>	<u>6.77</u>	SU
Specific Cond.	<u>618.2</u>	<u>640.1</u>	uS
Turbidity	<u>264</u>	<u>29.7</u>	NTU
Dissolved Oxygen	<u>1.96</u>	<u>2.86</u>	
Appearance	<u>cloudy black</u>	<u>cloudy</u>	

% Recharge:	
Initial Depth to Water	<u>0</u> feet
Recharge Depth to Water	<u>3.12</u> feet
2nd water column height	<u>        </u> %
1st water column height	<u>        </u> %
Elevation(Top of Casing)	<u>N/A</u> feet
G.W. Elevation=	<u>N/A</u> feet
G.W.Elevation =Top of Case Elev-Total Depth	

Weather: 20C sunny  
 Observations: cloudy, was dry around well but had to dig out dirt

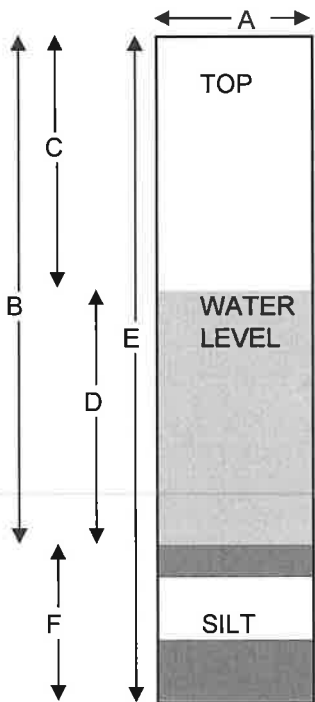
Sampler:           
 Signature: Matt Broker

PACE Analytical Services, Inc. Ground water Field Log

Client: Leader Consulting  
 Project: Vails Gate Manufacturing  
 Well ID.: MW-14

PACE ID

Condition of Well: Good Locked: Yes  
 Method of Evacuation: Bailer Lock ID: Flush  
 Method of Sampling: Bailer

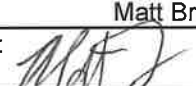


A.	Diameter of Well	<u>2.00</u>	inches
B.	Well Depth Measured	<u>13.00</u>	feet
C.	Depth to Water	<u>3.96</u>	feet
D.	Length of Water Column (calculated)	<u>9.04</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.45</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>4.29</u>	gallons
	Actual Volume Evacuated	<u>Dry @ 1.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>10/15/21</u>	<u>10/15/21</u>	
Time	<u>10:45</u>	<u>12:20</u>	
EH	<u>-75</u>	<u>64</u>	mV
Temperature	<u>21.1</u>	<u>22.1</u>	C
pH	<u>6.14</u>	<u>6.76</u>	SU
Specific Cond.	<u>581.9</u>	<u>643.6</u>	uS
Turbidity	<u>24.6</u>	<u>111</u>	NTU
Dissolved Oxygen	<u>3.12</u>	<u>5.61</u>	
Appearance	<u>cloudy</u>	<u>cloudy</u>	

% Recharge:	
Initial Depth to Water	<u>3.96</u> feet
Recharge Depth to Water	<u>7.51</u> feet
2nd water column height	<u>        </u> %
1st water column height	<u>        </u> %
Elevation(Top of Casing)	<u>N/A</u> feet
G.W. Elevation=	<u>N/A</u> feet
G.W.Elevation =Top of Case Elev-Total Depth	

Weather: 21C sunny  
 Observations: Well between pillar 2 and 3 Oil in well  
Well located in Unit 4-5  
Oil all over bailer. Changed bailers before sampling

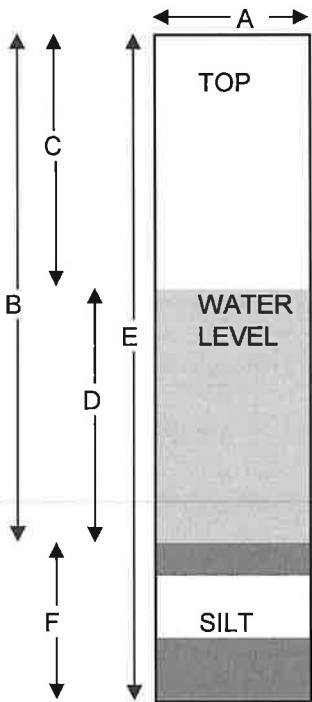
Sampler:           
 Signature: Matt Broker  


PACE Analytical Services, Inc. Ground water Field Log

Client: Leader Consulting  
 Project: Vails Gate Manufacturing  
 Well ID.: MW-16

PACE ID

Condition of Well: Good Locked: Yes  
 Method of Evacuation: Peristaltic Pump Lock ID: Flush  
 Method of Sampling: Peristaltic Pump

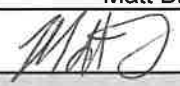


A.	Diameter of Well	<u>2.00</u>	inches
B.	Well Depth Measured	<u>13.63</u>	feet
C.	Depth to Water	<u>2.91</u>	feet
D.	Length of Water Column (calculated)	<u>10.72</u>	feet
	Conversion Factor	<u>0.16</u>	-----
	Well Volume (calculated)	<u>1.72</u>	gallons
	No. of Volumes to be Evacuated	<u>3</u>	-----
	Total Volume to be Evacuated	<u>5.16</u>	gallons
	Actual Volume Evacuated	<u>Dry @ 1.5</u>	gallons
E.	Installed Well Depth (if known)	<u>N/A</u>	feet
F.	Depth of Silt (calculated)	<u>N/A</u>	feet

Field Measurements	Initial Evacuation	Final Sampling	
Date	<u>10/15/21</u>	<u>10/15/21</u>	
Time	<u>11:40</u>	<u>12:10</u>	
EH	<u>-5</u>	<u>87</u>	mV
Temperature	<u>21.3</u>	<u>21.2</u>	C
pH	<u>7.31</u>	<u>6.91</u>	SU
Specific Cond.	<u>563.5</u>	<u>471.1</u>	uS
Turbidity	<u>5.07</u>	<u>72.4</u>	NTU
Dissolved Oxygen	<u>3.19</u>	<u>3.34</u>	
Appearance	<u>clear</u>	<u>cloudy</u>	

% Recharge:	
Initial Depth to Water	<u>2.91</u> feet
Recharge Depth to Water	<u>12.9</u> feet
2nd water column height	_____ %
1st water column height	_____ %
Elevation(Top of Casing)	<u>N/A</u> feet
G.W. Elevation=	<u>N/A</u> feet
G.W.Elevation =Top of Case Elev-Total Depth	

Weather: 22C sunny  
 Observations: sample cloudy

Sampler:  
Matt Broker  
 Signature: 



WO#: 70191351

PM: LS1

Due Date: 11/01/21

CLIENT: LPS

**PACE ANALYICAL INC.**  
**FIELD CALIBRATION SHEET**

DATE: 10/15/21 SITE: Vails Gate Manufacturing  
TECHNICIAN: Matt Broker WEATHER: 20C sunny

**INSTRUMENT:**

PH Myron Ultrameter II 6PFCe  
CONDUCTIVITY Myron Ultrameter II 6PFCe  
TEMPERATURE Myron Ultrameter II 6PFCe  
DISSOLVED OXYGEN Sper Scientific 850041  
TURBIDITY Hanna HI 98703

INSTRUMENT ANALYTE	STANDARD	INTIAL READING	ADJUSTED READING	TIME	NOTES
Ph	4.00	4.05	4.00	1032	
	7.00	7.10	7.00	1030	
	10.00	10.08	10.00	1034	
Conductivity	1413	1417	1413	1036	
Turbidity	<0.10	0.11	<0.10	1037	
	15	15.2	15	1038	
	100	105	100	1039	
	750	757	750	1040	

NOTES:

MSV - FORM II VOA-1  
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - New York SDG No.: 70191351 Contract: VAILS GATE

Instrument ID: 70MSV9

LAB SAMPLE ID	SAMPLE NAME	1DB4	BFB
1160712	1160712BLANK	96	103
1160713	1160713LCS	121	90
1161148	1161148MS	151	141*
1161149	1161149MSD	135	130
70191351001	MW-5A/AR MS/MSD	99	112
70191351002	MW-14	116	123
70191351003	MW-16	97	95

(1DB4) = 1,2-Dichlorobenzene-d4 (S)

(BFB) = 4-Bromofluorobenzene (S)

\* Values outside of QC Limits

QC LIMITS

(43-153)

(79-139)

MSV - FORM II VOA-1  
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - New York      SDG No.: 70191351      Contract: VAILS GATE

Instrument ID: 70MSV8

LAB SAMPLE ID	SAMPLE NAME	12D4	BFB	TOL8
1160401	1160401BLANK	94	101	103
1160402	1160402LCS	95	99	102
1160403	1160403MS	97	101	101
1160404	1160404MSD	96	101	102
70191351001	MW-5A/AR MS/MSD	94	101	101
70191351002	MW-14	98	102	103
70191351003	MW-16	96	101	102
70191351004	TRIP BLANK	96	101	102

QC LIMITS

(81-122)

(79-118)

(82-122)

(12D4) = 1,2-Dichloroethane-d4 (S)

(BFB) = 4-Bromofluorobenzene (S)

(TOL8) = Toluene-d8 (S)

\* Values outside of QC Limits

MSV - FORM III VOA-1  
WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - New York  
 Date Extracted: 10/20/2021  
 Instrument: 70MSV8  
 Lab File ID: 102021.B\35491A.D

Lab Sample ID: 1160402LCS  
 Date Analyzed (1): 10/20/2021  
 LCS Lot No: 120466  
 SDG No.: 70191351

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	50.0	30.1	60	14-156
Benzene	50.0	49.9	100	78-117
Bromobenzene	50.0	49.0	98	80-117
Bromochloromethane	50.0	50.2	100	77-122
Bromodichloromethane	50.0	47.5	95	80-123
Bromoform	50.0	47.7	95	49-138
Bromomethane	50.0	26.8	54	10-143
2-Butanone (MEK)	50.0	34.7	69	33-165
n-Butylbenzene	50.0	46.3	93	74-126
sec-Butylbenzene	50.0	45.2	90	76-120
tert-Butylbenzene	50.0	47.3	95	77-118
Carbon disulfide	50.0	46.7	93	66-133
Carbon tetrachloride	50.0	44.7	89	64-135
Chlorobenzene	50.0	48.8	98	79-117
Chloroethane	50.0	38.3	77	31-156
Chloroform	50.0	46.7	93	79-123
Chloromethane	50.0	33.0	66	39-116
2-Chlorotoluene	50.0	45.5	91	80-119
4-Chlorotoluene	50.0	47.1	94	79-119
1,2-Dibromo-3-chloropropane	50.0	41.8	84	47-133
Dibromochloromethane	50.0	46.2	92	65-123
1,2-Dibromoethane (EDB)	50.0	46.6	93	81-123
Dibromomethane	50.0	48.6	97	81-123
1,2-Dichlorobenzene	50.0	49.7	99	80-117
1,3-Dichlorobenzene	50.0	49.2	98	82-116
1,4-Dichlorobenzene	50.0	48.8	98	80-117
Dichlorodifluoromethane	50.0	39.4	79	13-149
1,1-Dichloroethane	50.0	44.8	90	72-126
1,2-Dichloroethane	50.0	44.3	89	69-134
1,1-Dichloroethene	50.0	54.9	110	66-133
cis-1,2-Dichloroethene	50.0	48.3	97	77-125
trans-1,2-Dichloroethene	50.0	46.8	94	74-123
1,2-Dichloropropane	50.0	47.3	95	75-125
1,3-Dichloropropane	50.0	48.8	98	81-118
2,2-Dichloropropane	50.0	45.9	92	47-151
1,1-Dichloropropene	50.0	42.7	85	69-124
cis-1,3-Dichloropropene	50.0	49.6	99	78-131
trans-1,3-Dichloropropene	50.0	48.0	96	73-135
1,4-Dioxane (p-Dioxane)	1250	1380	111	32-175
Ethylbenzene	50.0	47.1	94	79-115
Hexachloro-1,3-butadiene	50.0	39.5	79	55-142
2-Hexanone	50.0	35.2	70	50-128
Isopropylbenzene (Cumene)	50.0	46.2	92	74-118
p-Isopropyltoluene	50.0	48.2	96	78-122
Methylene Chloride	50.0	45.1	90	67-123
4-Methyl-2-pentanone (MIBK)	50.0	40.2	80	62-131
Methyl-tert-butyl ether	50.0	42.4	85	69-118

MSV - FORM III VOA-2  
WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - New York  
 Date Extracted: 10/20/2021  
 Instrument: 70MSV8  
 Lab File ID: 102021.B\P35491A.D

Lab Sample ID: 1160402LCS  
 Date Analyzed (1): 10/20/2021  
 LCS Lot No: 120466  
 SDG No.: 70191351

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Naphthalene	50.0	48.2	96	70-136
n-Propylbenzene	50.0	45.9	92	75-120
Styrene	50.0	51.5	103	82-121
1,1,1,2-Tetrachloroethane	50.0	48.4	97	75-122
1,1,2,2-Tetrachloroethane	50.0	46.7	93	70-127
Tetrachloroethene	50.0	47.0	94	65-120
Toluene	50.0	47.0	94	80-114
1,2,3-Trichlorobenzene	50.0	47.3	95	50-143
1,2,4-Trichlorobenzene	50.0	50.4	101	56-141
1,1,1-Trichloroethane	50.0	45.7	91	72-126
1,1,2-Trichloroethane	50.0	46.2	92	81-119
Trichloroethene	50.0	46.2	92	79-115
Trichlorofluoromethane	50.0	52.0	104	51-136
1,2,3-Trichloropropane	50.0	46.0	92	69-120
1,2,4-Trimethylbenzene	50.0	48.3	97	78-119
1,3,5-Trimethylbenzene	50.0	49.4	99	78-121
Vinyl acetate	50.0	38.3	77	49-136
Vinyl chloride	50.0	37.3	75	49-118
Xylene (Total)	150	149	99	80-118
m&p-Xylene	100	97.3	97	80-118
o-Xylene	50.0	51.4	103	80-119

Spike Recovery: 0 out of 68 outside limits.

MSV - FORM III VOA-1  
WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - New York

Lab Sample ID: 1160713LCS

Date Extracted: 10/20/2021

Date Analyzed (1): 10/20/2021

Instrument: 70MSV9

LCS Lot No: 111395

Lab File ID: 102021.B\B10654A.D

SDG No.: 70191351

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
1,4-Dioxane (p-Dioxane)	2.5	2.0	82	59-135

Spike Recovery: 0 out of 1 outside limits.

MSV - FORM III VOA-1  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York  
Date Extracted: 10/20/2021  
Instrument: 70MSV8  
Parent Sample ID: MW-5A/AR MS/MSD

Matrix Spike - Sample No: 1160403MS  
Date Analyzed (1): 10/20/2021  
Lab File ID: 102021.B\IP35511.D  
SDG No.: 70191351

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	<1.0	43.8	88	65-122
1,1,1-Trichloroethane	50.0	2.1	44.2	84	72-123
1,1,2,2-Tetrachloroethane	50.0	<1.0	49.6	99	64-133
1,1,2-Trichloroethane	50.0	<1.0	46.6	93	78-120
1,1-Dichloroethane	50.0	8.8	44.6	72	70-124
1,1-Dichloroethene	50.0	<1.0	51.3	103	61-139
1,1-Dichloropropene	50.0	<1.0	44.1	88	71-125
1,2,3-Trichlorobenzene	50.0	<1.0	43.0	86	48-140
1,2,3-Trichloropropane	50.0	<1.0	46.4	93	64-120
1,2,4-Trichlorobenzene	50.0	<1.0	46.6	93	53-138
1,2,4-Trimethylbenzene	50.0	<1.0	53.3	107	70-128
1,2-Dibromo-3-chloropropane	50.0	<1.0	45.4	91	32-137
1,2-Dibromoethane (EDB)	50.0	<1.0	46.0	92	78-121
1,2-Dichlorobenzene	50.0	<1.0	46.5	93	75-120
1,2-Dichloroethane	50.0	<1.0	44.0	88	58-138
1,2-Dichloropropane	50.0	<1.0	46.4	93	74-122
1,3,5-Trimethylbenzene	50.0	<1.0	51.8	104	68-130
1,3-Dichlorobenzene	50.0	<1.0	46.0	92	78-119
1,3-Dichloropropane	50.0	<1.0	47.3	95	74-118
1,4-Dichlorobenzene	50.0	<1.0	46.3	93	76-118
1,4-Dioxane (p-Dioxane)	1250	<100	1030	82	10-192
2,2-Dichloropropane	50.0	<1.0	41.6	83	43-136
2-Butanone (MEK)	50.0	<5.0	41.1	82	33-148
2-Chlorotoluene	50.0	<1.0	46.5	93	74-122
2-Hexanone	50.0	<5.0	36.0	72	49-124
4-Chlorotoluene	50.0	<1.0	47.6	95	73-122
4-Methyl-2-pentanone (MIBK)	50.0	<5.0	43.9	88	60-136
Acetone	50.0	<5.0	33.2	66	35-112
Benzene	50.0	<1.0	50.0	100	70-130
Bromobenzene	50.0	<1.0	46.2	92	79-115
Bromochloromethane	50.0	<1.0	47.3	95	70-122
Bromodichloromethane	50.0	<1.0	45.8	92	74-122
Bromoform	50.0	<1.0	42.5	85	39-139
Bromomethane	50.0	<1.0	21.4	43	10-130
Carbon disulfide	50.0	<1.0	44.7	89	60-129
Carbon tetrachloride	50.0	<1.0	45.2	90	56-143
Chlorobenzene	50.0	<1.0	45.8	92	74-122
Chloroethane	50.0	35.0	41.4	13	35-146
Chloroform	50.0	<1.0	46.6	93	71-129
Chloromethane	50.0	<1.0	25.3	51	29-112
Dibromochloromethane	50.0	<1.0	40.9	82	55-126
Dibromomethane	50.0	<1.0	47.5	95	71-127
Dichlorodifluoromethane	50.0	<1.0	20.3	41	10-123
Ethylbenzene	50.0	<1.0	44.9	90	70-126
Hexachloro-1,3-butadiene	50.0	<1.0	38.6	77	41-144
Isopropylbenzene (Cumene)	50.0	<1.0	46.4	93	68-127
Methyl-tert-butyl ether	50.0	<1.0	42.9	86	60-140

MSV - FORM III VOA-2  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York  
Date Extracted: 10/20/2021  
Instrument: 70MSV8  
Parent Sample ID: MW-5A/AR MS/MSD

Matrix Spike - Sample No: 1160403MS  
Date Analyzed (1): 10/20/2021  
Lab File ID: 102021.B\35511.D  
SDG No.: 70191351

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
Methylene Chloride	50.0	<1.0	61.4	123	69-117
Naphthalene	50.0	<1.0	48.4	97	60-147
Styrene	50.0	<1.0	47.3	95	79-123
Tetrachloroethene	50.0	<1.0	43.0	86	64-124
Toluene	50.0	1.3	49.9	97	76-123
Trichloroethene	50.0	<1.0	45.9	92	73-125
Trichlorofluoromethane	50.0	<1.0	43.2	86	59-129
Vinyl acetate	50.0	<1.0	42.0	84	34-123
Vinyl chloride	50.0	<1.0	35.6	71	33-127
Xylene (Total)	150	<3.0	148	99	78-123
cis-1,2-Dichloroethene	50.0	<1.0	49.0	98	73-129
cis-1,3-Dichloropropene	50.0	<1.0	46.3	93	67-130
m&p-Xylene	100	<2.0	96.8	97	79-123
n-Butylbenzene	50.0	<1.0	48.3	97	64-136
n-Propylbenzene	50.0	<1.0	47.4	95	70-130
o-Xylene	50.0	<1.0	51.3	103	57-139
p-Isopropyltoluene	50.0	<1.0	49.3	99	71-130
sec-Butylbenzene	50.0	<1.0	47.5	95	69-129
tert-Butylbenzene	50.0	<1.0	47.2	94	71-126
trans-1,2-Dichloroethene	50.0	<1.0	47.3	95	69-127
trans-1,3-Dichloropropene	50.0	<1.0	43.9	88	61-130

Spike Recovery: 2 out of 68 outside limits.



MSV - FORM III VOA-3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 70MSV8 Matrix Spike Duplicate - Sample No: 1160404MSD  
 Lab File ID (2): 102021.BP35512.D Date Analyzed (2): 10/20/2021

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	44.3	89	1	0-20	65-122
1,1,1-Trichloroethane	50.0	47.2	90	7	0-20	72-123
1,1,2,2-Tetrachloroethane	50.0	49.5	99	0	0-20	64-133
1,1,2-Trichloroethane	50.0	45.6	91	2	0-20	78-120
1,1-Dichloroethane	50.0	56.1	95	23	0-20	70-124
1,1-Dichloroethene	50.0	54.4	109	6	0-20	61-139
1,1-Dichloropropene	50.0	43.0	86	2	0-20	71-125
1,2,3-Trichlorobenzene	50.0	46.7	93	8	0-20	48-140
1,2,3-Trichloropropane	50.0	44.5	89	4	0-20	64-120
1,2,4-Trichlorobenzene	50.0	48.3	97	4	0-20	53-138
1,2,4-Trimethylbenzene	50.0	49.1	98	8	0-20	70-128
1,2-Dibromo-3-chloropropane	50.0	45.1	90	1	0-20	32-137
1,2-Dibromoethane (EDB)	50.0	44.9	90	2	0-20	78-121
1,2-Dichlorobenzene	50.0	47.2	94	2	0-20	75-120
1,2-Dichloroethane	50.0	44.8	90	2	0-20	58-138
1,2-Dichloropropane	50.0	45.5	91	2	0-20	74-122
1,3,5-Trimethylbenzene	50.0	50.4	101	3	0-20	68-130
1,3-Dichlorobenzene	50.0	47.1	94	2	0-20	78-119
1,3-Dichloropropane	50.0	45.0	90	5	0-20	74-118
1,4-Dichlorobenzene	50.0	45.9	92	1	0-20	76-118
1,4-Dioxane (p-Dioxane)	1250	1200	96	16	0-20	10-192
2,2-Dichloropropane	50.0	43.8	88	5	0-20	43-136
2-Butanone (MEK)	50.0	39.3	79	4	0-20	33-148
2-Chlorotoluene	50.0	46.8	94	1	0-20	74-122
2-Hexanone	50.0	37.9	76	5	0-20	49-124
4-Chlorotoluene	50.0	47.1	94	1	0-20	73-122
4-Methyl-2-pentanone (MIBK)	50.0	44.1	88	0	0-20	60-136
Acetone	50.0	29.6	59	11	0-20	35-112
Benzene	50.0	49.5	99	1	0-20	70-130
Bromobenzene	50.0	46.5	93	1	0-20	79-115
Bromochloromethane	50.0	44.8	90	5	0-20	70-122
Bromodichloromethane	50.0	44.9	90	2	0-20	74-122
Bromoform	50.0	41.5	83	2	0-20	39-139
Bromomethane	50.0	22.1	44	3	0-20	10-130
Carbon disulfide	50.0	44.0	88	2	0-20	60-129
Carbon tetrachloride	50.0	50.4	101	11	0-20	56-143
Chlorobenzene	50.0	45.7	91	0	0-20	74-122
Chloroethane	50.0	83.2	97	67	0-20	35-146
Chloroform	50.0	46.6	93	0	0-20	71-129
Chloromethane	50.0	26.1	52	3	0-20	29-112
Dibromochloromethane	50.0	40.8	82	0	0-20	55-126
Dibromomethane	50.0	46.2	92	3	0-20	71-127
Dichlorodifluoromethane	50.0	20.7	41	2	0-20	10-123
Ethylbenzene	50.0	44.9	90	0	0-20	70-126
Hexachloro-1,3-butadiene	50.0	39.2	78	2	0-20	41-144
Isopropylbenzene (Cumene)	50.0	47.8	96	3	0-20	68-127
Methyl-tert-butyl ether	50.0	41.7	83	3	0-20	60-140
Methylene Chloride	50.0	44.6	89	32	0-20	69-117
Naphthalene	50.0	51.7	103	7	0-20	60-147

MSV - FORM III VOA-4  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 70MSV8 Matrix Spike Duplicate - Sample No: 1160404MSD  
 Lab File ID (2): 102021.BP35512.D Date Analyzed (2): 10/20/2021

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
Styrene	50.0	47.3	95	0	0-20	79-123
Tetrachloroethene	50.0	43.7	87	2	0-20	64-124
Toluene	50.0	48.2	94	4	0-20	76-123
Trichloroethene	50.0	46.3	93	1	0-20	73-125
Trichlorofluoromethane	50.0	44.1	88	2	0-20	59-129
Vinyl acetate	50.0	39.2	78	7	0-20	34-123
Vinyl chloride	50.0	37.1	74	4	0-20	33-127
Xylene (Total)	150	137	92	7	0-20	78-123
cis-1,2-Dichloroethene	50.0	47.8	96	2	0-20	73-129
cis-1,3-Dichloropropene	50.0	46.7	93	1	0-20	67-130
m&p-Xylene	100	91.4	91	6	0-20	79-123
n-Butylbenzene	50.0	50.0	100	4	0-20	64-136
n-Propylbenzene	50.0	48.7	97	3	0-20	70-130
o-Xylene	50.0	46.0	92	11	0-20	57-139
p-Isopropyltoluene	50.0	50.2	100	2	0-20	71-130
sec-Butylbenzene	50.0	48.1	96	1	0-20	69-129
tert-Butylbenzene	50.0	49.1	98	4	0-20	71-126
trans-1,2-Dichloroethene	50.0	47.8	96	1	0-20	69-127
trans-1,3-Dichloropropene	50.0	44.2	88	1	0-20	61-130

RPD: 3 out of 68 outside limits.

Spike Recovery: 0 out of 68 outside limits.

MSV - FORM III VOA-1  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York

Matrix Spike - Sample No: 1161148MS

Date Extracted: 10/20/2021

Date Analyzed (1): 10/20/2021

Instrument: 70MSV9

Lab File ID: 102021.B\B10666.D

Parent Sample ID: MW-5A/AR MS/MSD

SDG No.: 70191351

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,4-Dioxane (p-Dioxane)	12.5	75.7	90.8	120	42-159

Spike Recovery: 0 out of 1 outside limits.

11/11/2021 2:03

MSV - FORM III VOA-2  
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 70MSV9 Matrix Spike Duplicate - Sample No: 1161149MSD  
 Lab File ID (2): 102021.B\B10667.D Date Analyzed (2): 10/20/2021

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,4-Dioxane (p-Dioxane)	12.5	87.3	93	4	0-20	42-159

RPD: 0 out of 1 outside limits.

Spike Recovery: 0 out of 1 outside limits.

MSV - FORM IV VOA-1  
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

1160401BLANK

Lab Name: Pace Analytical - New York SDG No.: 70191351 Contract: VAILS GATE  
Instrument ID: 70MSV8 Matrix: Water Lab Sample ID: 1160401  
Lab File ID: 102021.B\P35490A.D Date Analyzed: 10/20/2021 Time: 08:12

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1160402LCS	1160402	102021.B\P35491A.D	10/20/2021 08:37
TRIP BLANK	70191351004	102021.B\P35495.D	10/20/2021 10:00
MW-5A/AR MS/MSD	70191351001	102021.B\P35496.D	10/20/2021 10:20
MW-14	70191351002	102021.B\P35497.D	10/20/2021 10:39
MW-16	70191351003	102021.B\P35498.D	10/20/2021 10:58
1160403MS	1160403	102021.B\P35511.D	10/20/2021 15:09
1160404MSD	1160404	102021.B\P35512.D	10/20/2021 15:29

MSV - FORM IV VOA-1  
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

1160712BLANK

Lab Name: Pace Analytical - New York SDG No.: 70191351 Contract: VAILS GATE  
Instrument ID: 70MSV9 Matrix: Water Lab Sample ID: 1160712  
Lab File ID: 102021.B\B10653A.D Date Analyzed: 10/20/2021 Time: 15:20

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1160713LCS	1160713	102021.B\B10654A.D	10/20/2021 15:44
MW-16	70191351003	102021.B\B10660.D	10/20/2021 18:32
MW-14	70191351002	102021.B\B10662.D	10/20/2021 19:16
MW-5A/AR MS/MSD	70191351001	102021.B\B10665.D	10/20/2021 20:45
1161148MS	1161148	102021.B\B10666.D	10/20/2021 21:15
1161149MSD	1161149	102021.B\B10667.D	10/20/2021 21:39

MSV - FORM V VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York      SDG No.: 70191351      Contract: VAILS GATE  
 Lab File ID: 060921.B\P31432.D      BFB Injection Date: 06/09/2021  
 Instrument ID: 70MSV8      BFB Injection Time: 15:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	17.26
75	30.00 - 60.00% of mass 95	46.45
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.85      (1.21) <sup>1</sup>
174	50.00 - 100.00% of mass 95	70.74
175	5.00 - 9.00% of mass 174	5.49      (7.76) <sup>1</sup>
176	95.00 - 101.00% of mass 174	69.35      (98.04) <sup>1</sup>
177	5.00 - 9.00% of mass 176	4.66      (6.72) <sup>2</sup>

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15164442CAL1	15164442CAL1	060921.B\P31433.D	06/09/2021	16:08
15164436CAL2	15164436CAL2	060921.B\P31434.D	06/09/2021	16:28
15164443CAL3	15164443CAL3	060921.B\P31435.D	06/09/2021	16:47
15164438CAL4	15164438CAL4	060921.B\P31436.D	06/09/2021	17:07
15164439CAL5	15164439CAL5	060921.B\P31437.D	06/09/2021	17:26
15164437CAL6	15164437CAL6	060921.B\P31438.D	06/09/2021	17:45
15164441CAL7	15164441CAL7	060921.B\P31439.D	06/09/2021	18:05
15164440CAL8	15164440CAL8	060921.B\P31440.D	06/09/2021	18:24
15164450ICV	15164450ICV	060921.B\P31441.D	06/09/2021	19:14

MSV - FORM V VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York      SDG No.: 70191351      Contract: VAILS GATE  
 Lab File ID: 102021.B\P35488.D      BFB Injection Date: 10/20/2021  
 Instrument ID: 70MSV8      BFB Injection Time: 05:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	15.86
75	30.00 - 60.00% of mass 95	45.88
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.76
173	Less than 2.00% of mass 174	0.73      (0.94) <sup>1</sup>
174	50.00 - 100.00% of mass 95	77.07
175	5.00 - 9.00% of mass 174	6.31      (8.19) <sup>1</sup>
176	95.00 - 101.00% of mass 174	77.53      (100.59) <sup>1</sup>
177	5.00 - 9.00% of mass 176	4.44      (5.73) <sup>2</sup>

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15787323CCV	15787323CCV	102021.B\P35489.D	10/20/2021	07:07
1160401BLANK	1160401BLANK	102021.B\P35490A.D	10/20/2021	08:12
1160402LCS	1160402LCS	102021.B\P35491A.D	10/20/2021	08:37
TRIP BLANK	70191351004	102021.B\P35495.D	10/20/2021	10:00
MW-5A/AR MS/MSD	70191351001	102021.B\P35496.D	10/20/2021	10:20
MW-14	70191351002	102021.B\P35497.D	10/20/2021	10:39
MW-16	70191351003	102021.B\P35498.D	10/20/2021	10:58
1160403MS	1160403MS	102021.B\P35511.D	10/20/2021	15:09
1160404MSD	1160404MSD	102021.B\P35512.D	10/20/2021	15:29



MSV - FORM V VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York      SDG No.: 70191351      Contract: VAILS GATE  
 Lab File ID: 091421.B\B10400.D      BFB Injection Date: 09/14/2021  
 Instrument ID: 70MSV9      BFB Injection Time: 17:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	15.78
75	30.00 - 60.00% of mass 95	46.97
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.39      (0.51) <sup>1</sup>
174	50.00 - 100.00% of mass 95	76.16
175	5.00 - 9.00% of mass 174	5.40      (7.09) <sup>1</sup>
176	95.00 - 101.00% of mass 174	74.86      (98.29) <sup>1</sup>
177	5.00 - 9.00% of mass 176	5.00      (6.68) <sup>2</sup>

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15626362CAL1	15626362CAL1	091421.B\B10401.D	09/14/2021	18:04
15626358CAL2	15626358CAL2	091421.B\B10402.D	09/14/2021	18:27
15626363CAL3	15626363CAL3	091421.B\B10403.D	09/14/2021	18:51
15626360CAL4	15626360CAL4	091421.B\B10404.D	09/14/2021	19:14
15626359CAL5	15626359CAL5	091421.B\B10405.D	09/14/2021	19:56
15626361CAL6	15626361CAL6	091421.B\B10406.D	09/14/2021	20:20
15626364CAL7	15626364CAL7	091421.B\B10407.D	09/14/2021	20:43
15626398ICV	15626398ICV	091421.B\B10408.D	09/14/2021	21:12

MSV - FORM V VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York      SDG No.: 70191351      Contract: VAILS GATE  
 Lab File ID: 102021.B\B10651.D      BFB Injection Date: 10/20/2021  
 Instrument ID: 70MSV9      BFB Injection Time: 14:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.00 - 40.00% of mass 95	16.10
75	30.00 - 60.00% of mass 95	47.18
95	Base Peak, 100.00% relative	100.00
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.42      (0.54) <sup>1</sup>
174	50.00 - 100.00% of mass 95	77.86
175	5.00 - 9.00% of mass 174	5.48      (7.04) <sup>1</sup>
176	95.00 - 101.00% of mass 174	74.73      (95.98) <sup>1</sup>
177	5.00 - 9.00% of mass 176	4.87      (6.52) <sup>2</sup>

1 - Value is % mass 174

2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15786340CCV	15786340CCV	102021.B\B10652.D	10/20/2021	14:54
1160712BLANK	1160712BLANK	102021.B\B10653A.D	10/20/2021	15:20
1160713LCS	1160713LCS	102021.B\B10654A.D	10/20/2021	15:44
MW-16	70191351003	102021.B\B10660.D	10/20/2021	18:32
MW-14	70191351002	102021.B\B10662.D	10/20/2021	19:16
MW-5A/AR MS/MSD	70191351001	102021.B\B10665.D	10/20/2021	20:45
1161148MS	1161148MS	102021.B\B10666.D	10/20/2021	21:15
1161149MSD	1161149MSD	102021.B\B10667.D	10/20/2021	21:39

MSV - FORM VIII VOA-1  
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - New York      SDG No.: 70191351      Contract: VAILS GATE MANUFACTURING 10/15  
 Sample ID : 15787323CCV      Date Analyzed: 10/20/2021  
 Instrument ID: 70MSV8      GC Column: Col 1      Time Analyzed: 07:07  
 Lab File ID: 102021.B\P35489.D

		AREA CBZ	RT	AREA DCB	RT	AREA DFB	RT	AREA PFB	RT
12 HOUR STD		297860	7.427	266142	10.073	592098	4.312	343703	3.684
UPPER LIMIT		595720	7.927	532284	10.573	1184196	4.812	687406	4.184
LOWER LIMIT		148930	6.927	133071	9.573	296049	3.812	171851.5	3.184
LAB SAMPLE ID	SAMPLE NO.								
1160401	1160401BLANK	290044	7.433	256631	10.073	589464	4.312	339470	3.684
1160402	1160402LCS	297232	7.427	261964	10.073	598951	4.312	346686	3.684
1160403	1160403MS	366591	7.433	307483	10.067	715799	4.312	397583	3.69
1160404	1160404MSD	364399	7.433	301425	10.073	714209	4.312	396964	3.684
70191351001	MW-5A/AR MS/MSD	288276	7.427	255608	10.073	581273	4.312	332305	3.684
70191351002	MW-14	280051	7.427	250550	10.067	559703	4.312	333384	3.684
70191351003	MW-16	363285	7.433	303258	10.067	718657	4.312	394468	3.69
70191351004	TRIP BLANK	285482	7.433	252874	10.073	572933	4.312	332507	3.684

CBZ = Chlorobenzene-D5 (IS)

DCB = 1,4-Dichlorobenzene-d4 (IS)

DFB = 1,4-Difluorobenzene (IS)

PFB = Pentafluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

\* Values outside of QC Limits

MSV - FORM VIII VOA-1  
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - New York      SDG No.: 70191351      Contract: VAILS GATE MANUFACTURING 10/15  
 Sample ID : 15786340CCV      Date Analyzed: 10/20/2021  
 Instrument ID: 70MSV9      GC Column: FULL      Time Analyzed: 14:54  
 Lab File ID: 102021.B\B10652.D

		AREA FBZ	RT
12 HOUR STD		2140090	4.128
UPPER LIMIT		4280180	4.628
LOWER LIMIT		1070045	3.628
LAB SAMPLE ID	SAMPLE NO.		
1160712	1160712BLANK	2162585	4.128
1160713	1160713LCS	2175797	4.128
1161148	1161148MS	1909705	4.128
1161149	1161149MSD	2255551	4.128
70191351001	MW-5A/AR MS/MSD	2376667	4.128
70191351002	MW-14	2262483	4.134
70191351003	MW-16	2387808	4.128

FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area

AREA LOWER LIMIT = 50% of Internal Standard Area

RT UPPER LIMIT = +0.50 minutes of Internal Standard RT

RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

\* Values outside of QC Limits

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-5A/AR MS/MSD

Lab Name: Pace Analytical - New York  
 Date Received: 10/16/2021 10:30  
 Date Extracted: 10/20/2021 10:20  
 Date Analyzed: 10/20/2021 10:20  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
 Matrix: Water SDG No.: 70191351  
 Lab Sample ID: 70191351001  
 Lab File ID: 102021.B/P35496.D  
 Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<5.0	U
71-43-2	Benzene	<1.0	U
108-86-1	Bromobenzene	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<1.0	U
74-83-9	Bromomethane	<1.0	U
78-93-3	2-Butanone (MEK)	<5.0	U
104-51-8	n-Butylbenzene	<1.0	U
135-98-8	sec-Butylbenzene	<1.0	U
98-06-6	tert-Butylbenzene	<1.0	U
75-15-0	Carbon disulfide	<1.0	U
56-23-5	Carbon tetrachloride	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
75-00-3	Chloroethane	35.0	
67-66-3	Chloroform	<1.0	U
74-87-3	Chloromethane	<1.0	U
95-49-8	2-Chlorotoluene	<1.0	U
106-43-4	4-Chlorotoluene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane (EDB)	<1.0	U
74-95-3	Dibromomethane	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
75-71-8	Dichlorodifluoromethane	<1.0	U
75-34-3	1,1-Dichloroethane	8.8	
107-06-2	1,2-Dichloroethane	<1.0	U
75-35-4	1,1-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
142-28-9	1,3-Dichloropropane	<1.0	U
594-20-7	2,2-Dichloropropane	<1.0	U
563-58-6	1,1-Dichloropropene	<1.0	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U

11/11/2021 2:03

MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-5A/AR MS/MSD

Lab Name: Pace Analytical - New York  
 Date Received: 10/16/2021 10:30  
 Date Extracted: 10/20/2021 10:20  
 Date Analyzed: 10/20/2021 10:20  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
 Matrix: Water SDG No.: 70191351  
 Lab Sample ID: 70191351001  
 Lab File ID: 102021.B\P35496.D  
 Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
123-91-1	1,4-Dioxane (p-Dioxane)	<100	U
100-41-4	Ethylbenzene	<1.0	U
87-68-3	Hexachloro-1,3-butadiene	<1.0	U
591-78-6	2-Hexanone	<5.0	U
98-82-8	Isopropylbenzene (Cumene)	<1.0	U
99-87-6	p-Isopropyltoluene	<1.0	U
75-09-2	Methylene Chloride	<1.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	U
1634-04-4	Methyl-tert-butyl ether	<1.0	U
91-20-3	Naphthalene	<1.0	U
103-65-1	n-Propylbenzene	<1.0	U
100-42-5	Styrene	<1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
108-88-3	Toluene	1.3	
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
71-55-6	1,1,1-Trichloroethane	2.1	
79-00-5	1,1,2-Trichloroethane	<1.0	U
79-01-6	Trichloroethene	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
96-18-4	1,2,3-Trichloropropane	<1.0	U
95-63-6	1,2,4-Trimethylbenzene	<1.0	U
108-67-8	1,3,5-Trimethylbenzene	<1.0	U
108-05-4	Vinyl acetate	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
1330-20-7	Xylene (Total)	<3.0	U
179601-23-1	m&p-Xylene	<2.0	U
95-47-6	o-Xylene	<1.0	U

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35496.D  
 Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35496.D  
 Lab Smp Id: 70191351001 Client Smp ID: MW-5A/AR MS/MSD  
 Inj Date : 20-OCT-2021 10:20 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 70191351001,  
 Misc Info : 12755,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				REVIEW		
			ON-COLUMN	FINAL					
	MASS		RT	EXP RT	REL RT	RESPONSE	( ug/L)	( ug/L)	C
1 Chlorodifluoromethane	51								
2 Dichlorotetrafluoroethane	135								
3 Dichlorodifluoromethane	85								
4 Chloromethane	50								
5 Vinyl chloride	62								
6 1,3-Butadiene	54								
7 Acetaldehyde	44								(D)
8 Bromomethane	94								
9 Chloroethane	64		1.464	1.458	(0.398)	81453	34.9584	35.0	
10 Dichlorofluoromethane	67								
11 Trichlorofluoromethane	101								
12 Ethanol	45								(D)
13 Diethyl ether (Ethyl ether)	59								
16 1,1,2-Trichlorotrifluoroethane	101								
14 Acrolein	56								
15 1,1-Dichloroethene	96								
17 Acetone	43								
18 Iodomethane	142								
19 2-Propanol	45								
20 Carbon disulfide	76								
21 Allyl chloride	76								
22 Acetonitrile	41								

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
23 Methyl acetate	43							
24 Methylene Chloride	84							
25 tert-Butyl Alcohol	59							(D)
28 Methyl-tert-butyl ether	73							
27 trans-1,2-Dichloroethene	96							
26 Acrylonitrile	53							
30 n-Hexane	57							
29 Diisopropyl ether	45							
32 Vinyl acetate	43							
31 1,1-Dichloroethane	63	2.806	2.805	(0.762)	46672	8.75154	8.75	
33 Chloroprene	53							
34 Ethyl-tert-butyl ether	59							
36 2,2-Dichloropropane	77							
35 cis-1,2-Dichloroethene	96							
39 Ethyl acetate	61							
37 2-Butanone (MEK)	43							
41 Bromochloromethane	128							
42 Tetrahydrofuran	42							
43 Chloroform	83							
38 Propionitrile	54							
46 Cyclohexane	56							
45 1,1,1-Trichloroethane	97	3.610	3.616	(0.837)	8329	2.11815	2.12	
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	332305	50.0000		
48 Carbon tetrachloride	117							(D)
47 1,1-Dichloropropene	75							(D)
55 2,2,4-Trimethylpentane	57							
51 Benzene	78							
40 Methacrylonitrile	67							
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.952	3.945	(0.917)	180805	46.8127	46.8	
56 tert-Amylmethyl ether	73							
52 1,2-Dichloroethane	62							
57 n-Heptane	43							
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	581273	50.0000		
59 Trichloroethene	95							
60 Methylcyclohexane	83							
49 Isobutanol	43							
53 tert-Amyl Alcohol	59							
54 tert-Amyl ethyl ether	59							
61 1,2-Dichloropropane	63							
63 Methyl methacrylate	69							
64 1,4-Dioxane (p-Dioxane)	88							(D)
62 Dibromomethane	93							
65 Bromodichloromethane	83							
66 2-Nitropropane	43							
67 2-Chloroethylvinyl ether	63							
68 cis-1,3-Dichloropropene	75							
69 4-Methyl-2-pentanone (MIBK)	43							
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.771)	705938	50.5451	50.5	
71 Toluene	91	5.799	5.799	(1.345)	16624	1.27474	1.27	
72 Methyl isothiocyanate	73							
74 trans-1,3-Dichloropropene	75							
75 Ethyl methacrylate	69							
76 1,1,2-Trichloroethane	83							
77 Tetrachloroethene	166							



Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76							
79 2-Hexanone	43							
73 n-Octane	43							
81 n-Butyl acetate	43							
80 Dibromochloromethane	129							
82 1,2-Dibromoethane (EDB)	107							
* 83 Chlorobenzene-d5 (IS)	82	7.427	7.426	(1.000)	288276	50.0000		
84 Chlorobenzene	112							
86 Ethylbenzene	106							
85 1,1,1,2-Tetrachloroethane	131							
88 n-Nonane	43							
87 m&p-Xylene	106							
89 o-Xylene	106							
90 Styrene	104							
91 Bromoform	173							
92 Isopropylbenzene (Cumene)	105							
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.215)	260041	50.7262	50.7	
94 Bromobenzene	156							
95 1,1,2,2-Tetrachloroethane	83							
98 n-Propylbenzene	91							
96 1,2,3-Trichloropropane	110							
97 trans-1,4-Dichloro-2-butene	53							
103 n-Decane	43							
99 2-Chlorotoluene	91							
100 4-Ethyltoluene	105							
101 1,3,5-Trimethylbenzene	105							
102 4-Chlorotoluene	91							
104 tert-Butylbenzene	119							
105 Pentachloroethane	167							
106 1,2,4-Trimethylbenzene	105							
107 sec-Butylbenzene	105							
109 d-Limonene	136							
110 p-Isopropyltoluene	119							
108 1,3-Dichlorobenzene	146							
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	255608	50.0000		
112 1,4-Dichlorobenzene	146							
113 1,2,3-Trimethylbenzene	105							
114 Benzyl chloride	91							
115 trans-Decalin	138							
116 1,4-Diethylbenzene	119							
117 n-Butylbenzene	91							
119 n-Undecane	43							
118 1,2-Dichlorobenzene	146							
120 cis-Decalin	138							
121 1,2,4,5-tetramethylbenzene	119							
122 1,2-Dibromo-3-chloropropane	75							
123 n-Dodecane	43							
124 1,2,4-Trichlorobenzene	180							
125 Hexachloro-1,3-butadiene	225							
126 Naphthalene	128							
127 1,2,3-Trichlorobenzene	180							

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35496.D  
Report Date: 21-Oct-2021 11:08

QC Flag Legend

D - User disabled compound identification.

Review Codes Legend

:

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35496.D  
Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

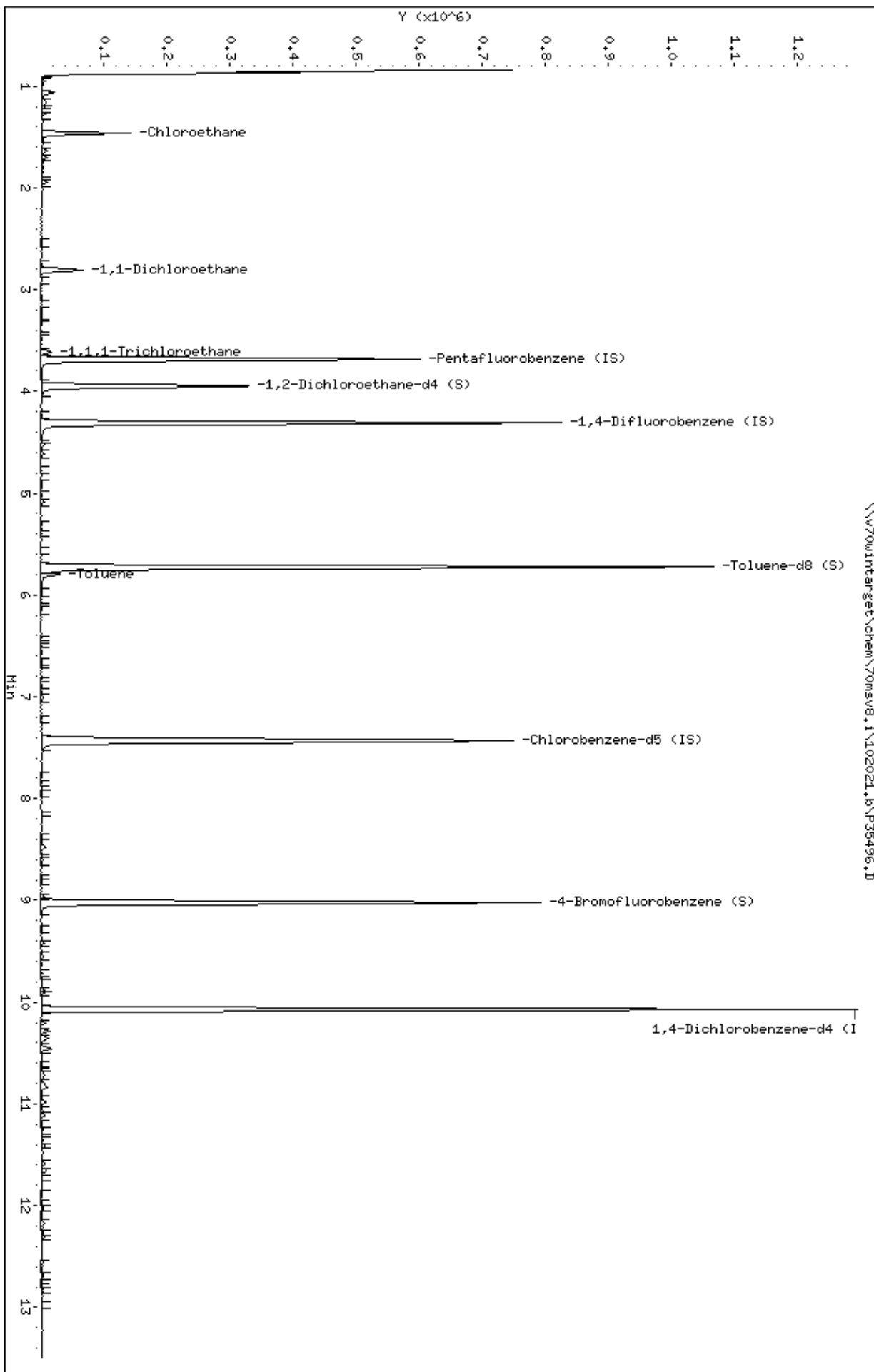
SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35496.D  
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Operator : KGG Inst ID: 70msv8.i  
Smp Info : 70191351001,  
Misc Info : 12755,  
Comment :  
Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
Als bottle: 9  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 8260.sub  
Target Version: RC10A  
Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\v70wintarget\chem\70msv8.1\102021.b\p35496.D  
Date: 20-OCT-2021 10:20  
Client ID: HM-54/AR HS/HSD  
Sample Info: 70191351001,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv8.1  
Operator: KGS  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35496.D

Date : 20-OCT-2021 10:20

Client ID: MW-5A/AR MS/MSD

Instrument: 70msv8.i

Sample Info: 70191351001,

Purge Volume: 5.0

Operator: KGG

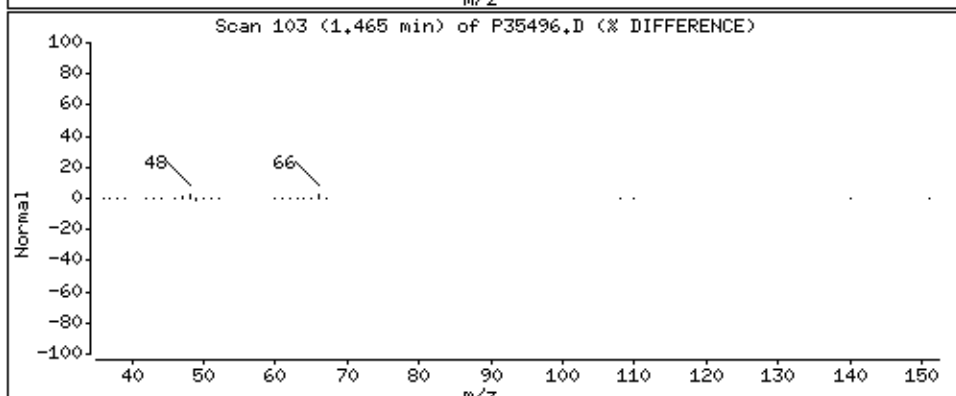
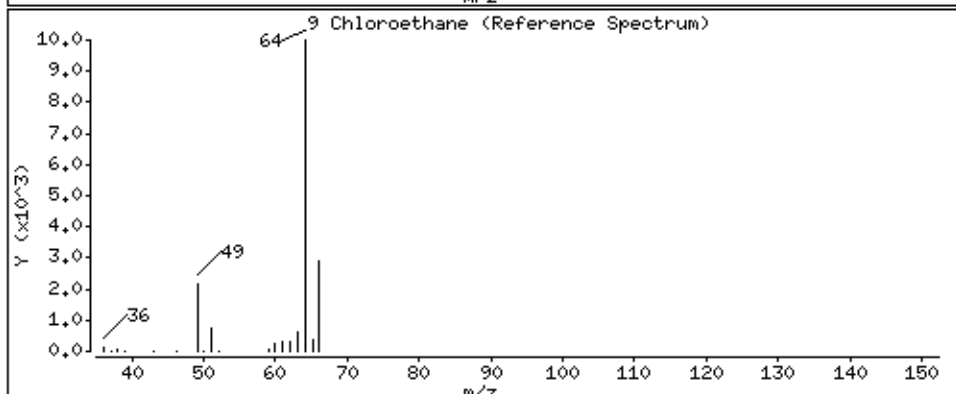
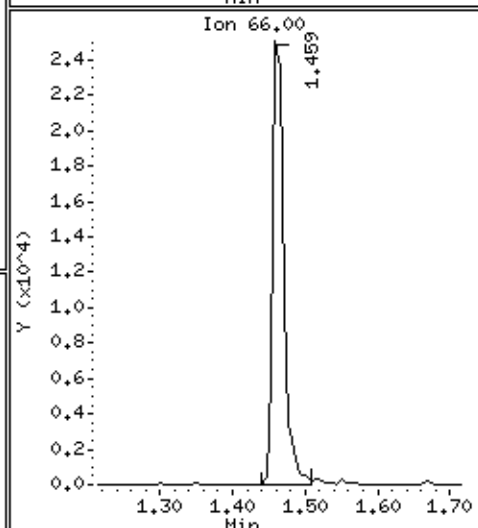
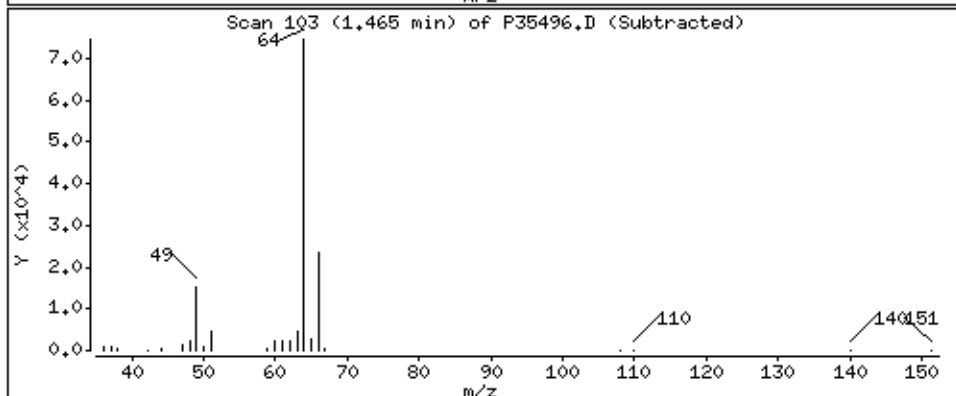
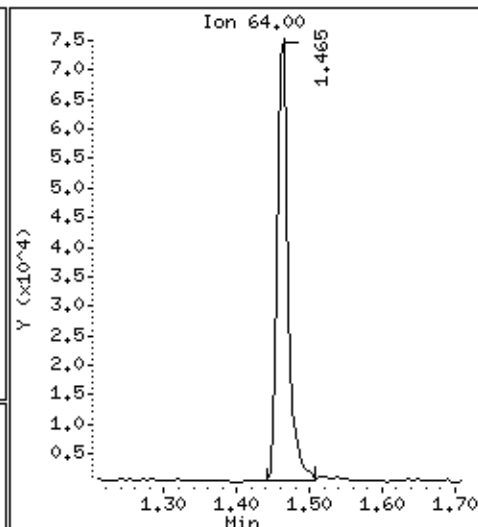
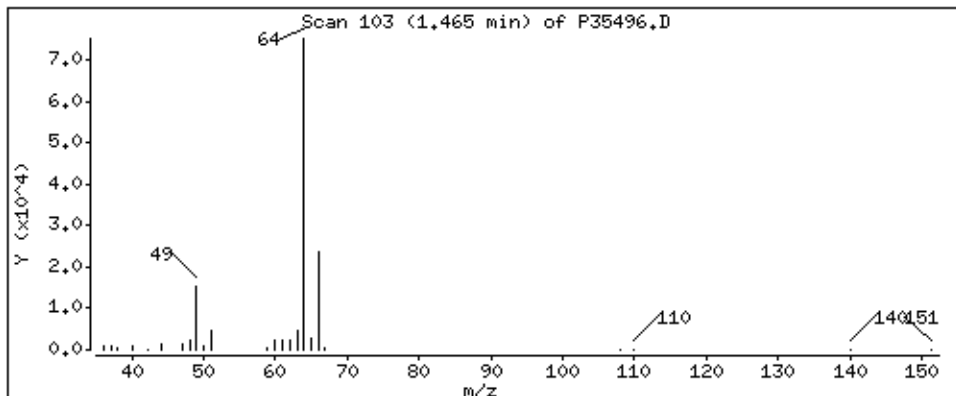
Column phase: RTX-624

Column diameter: 0,18

9 Chloroethane

Concentration: 35,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35496.D

Date : 20-OCT-2021 10:20

Client ID: MW-5A/AR MS/MSD

Instrument: 70msv8.i

Sample Info: 70191351001,

Purge Volume: 5.0

Operator: KGG

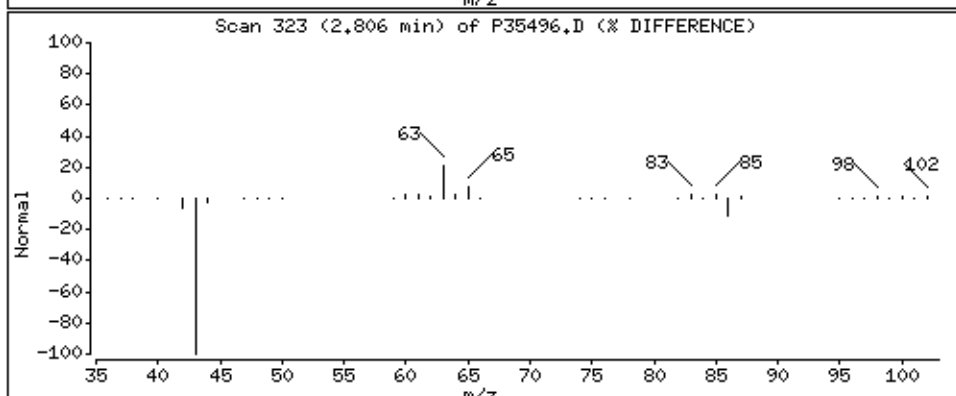
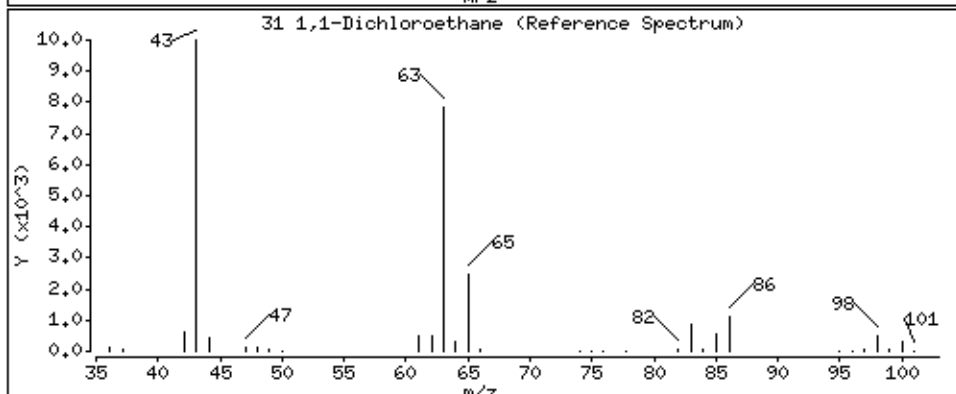
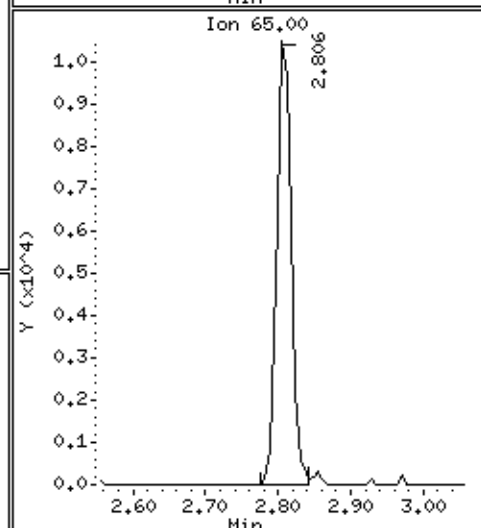
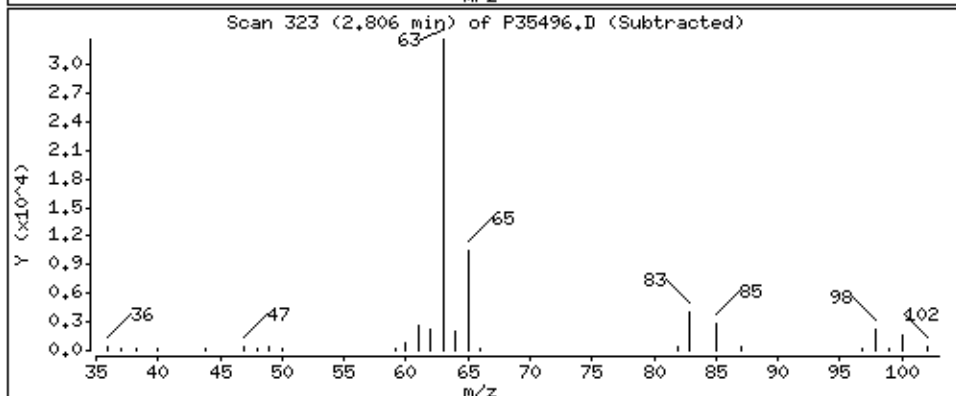
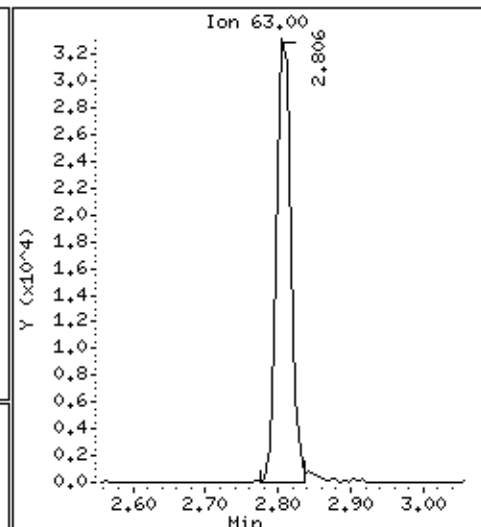
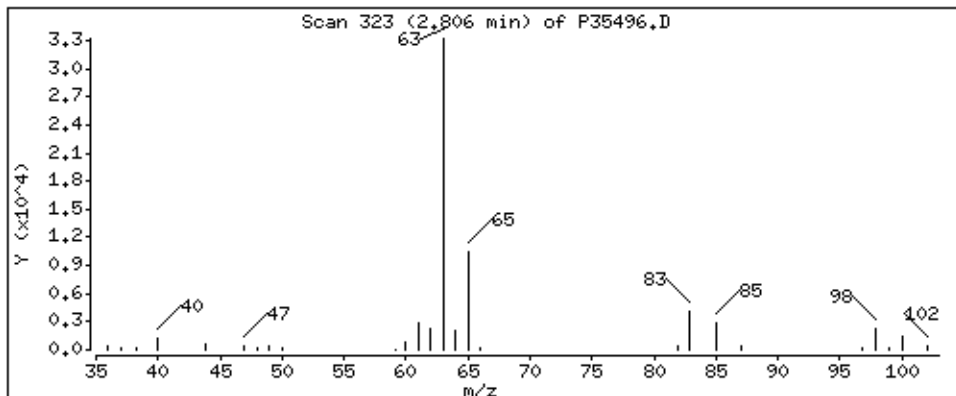
Column phase: RTX-624

Column diameter: 0,18

31 1,1-Dichloroethane

Concentration: 8,75 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35496.D

Date : 20-OCT-2021 10:20

Client ID: MW-5A/AR MS/MSD

Instrument: 70msv8.i

Sample Info: 70191351001,

Purge Volume: 5.0

Operator: KGG

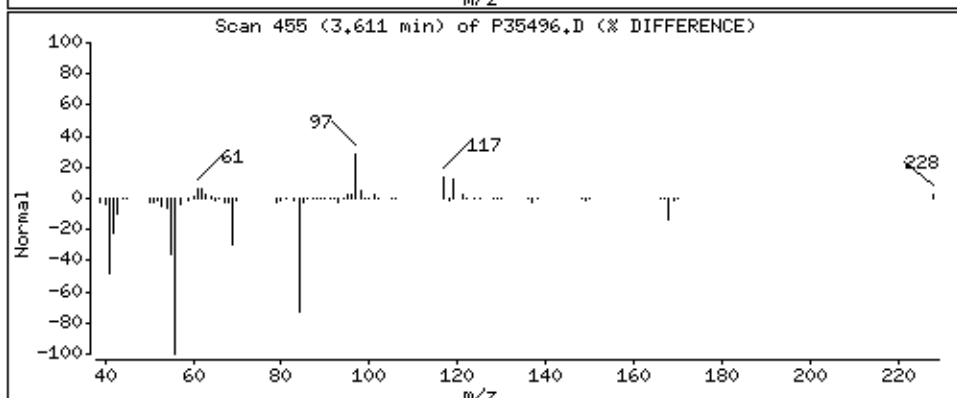
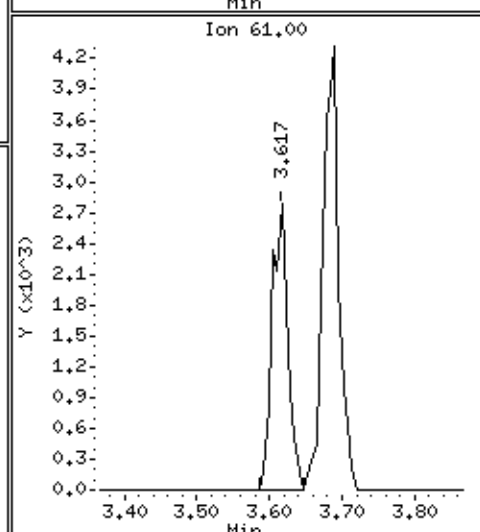
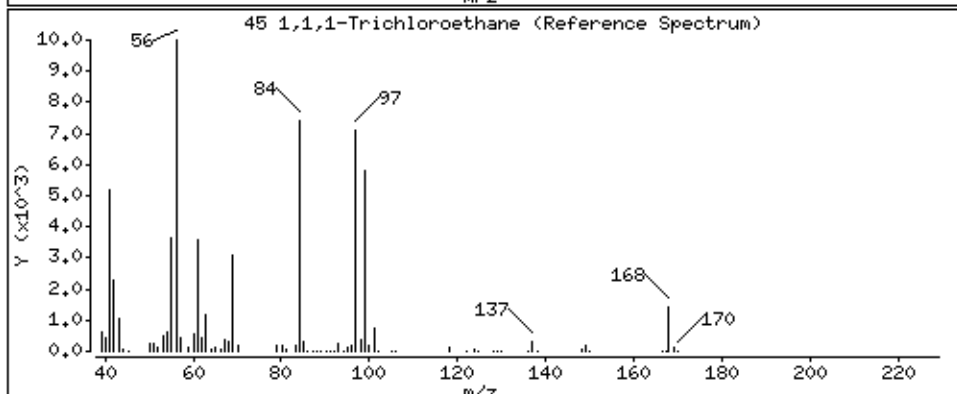
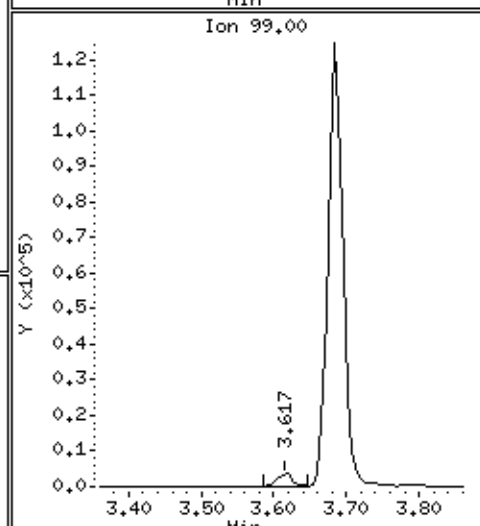
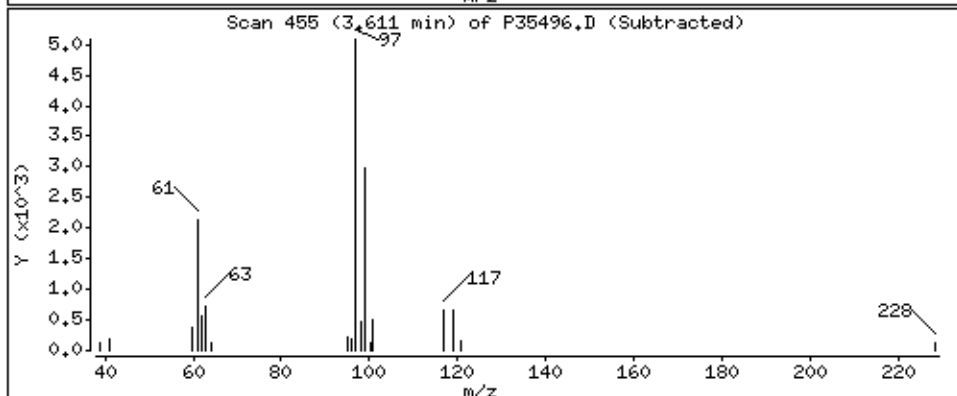
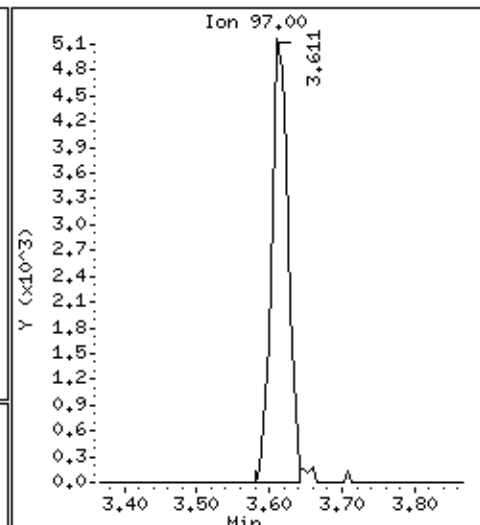
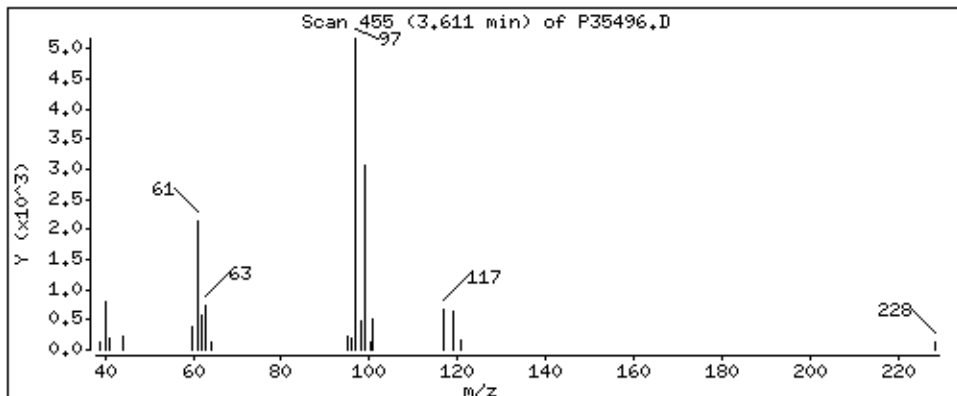
Column phase: RTX-624

Column diameter: 0,18

45 1,1,1-Trichloroethane

Concentration: 2,12 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35496.D

Date : 20-OCT-2021 10:20

Client ID: MW-5A/AR MS/MSD

Instrument: 70msv8.i

Sample Info: 70191351001,

Purge Volume: 5.0

Operator: KGG

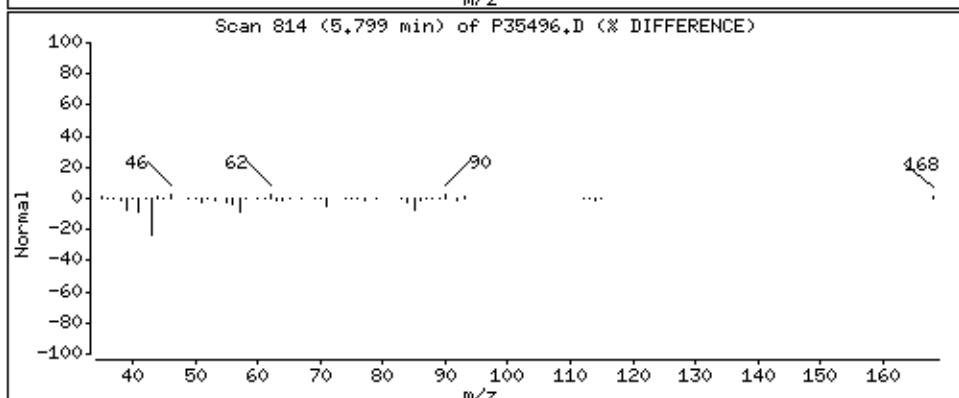
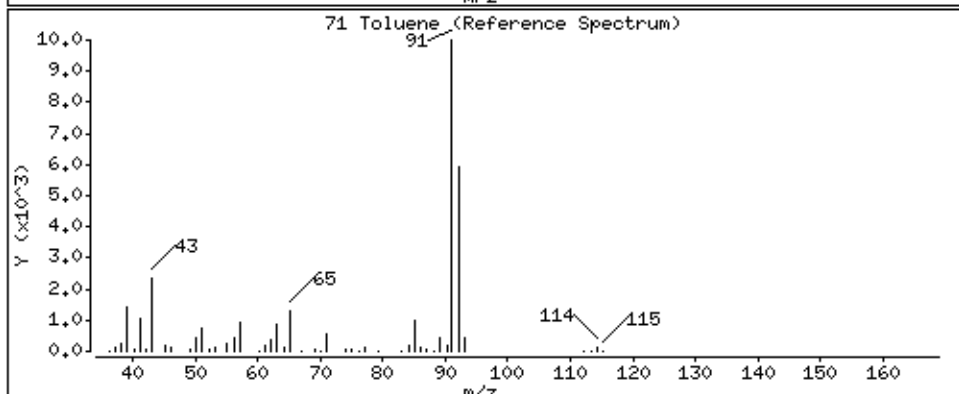
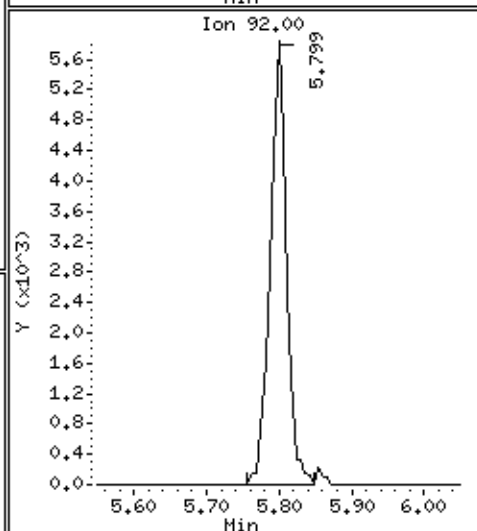
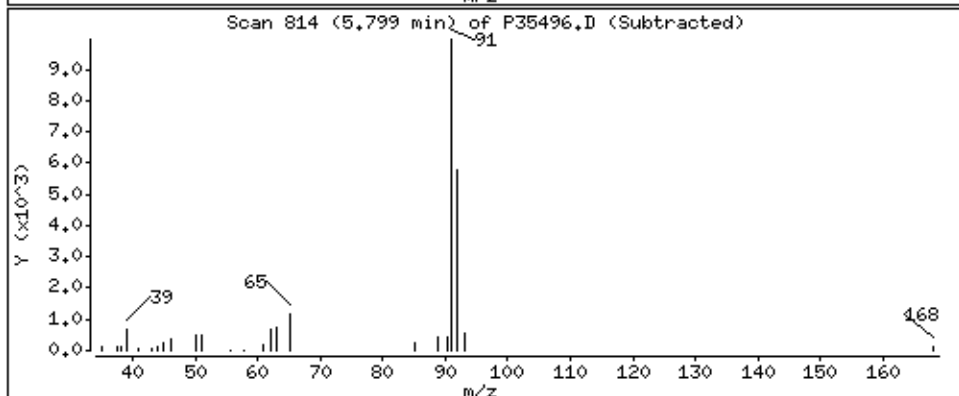
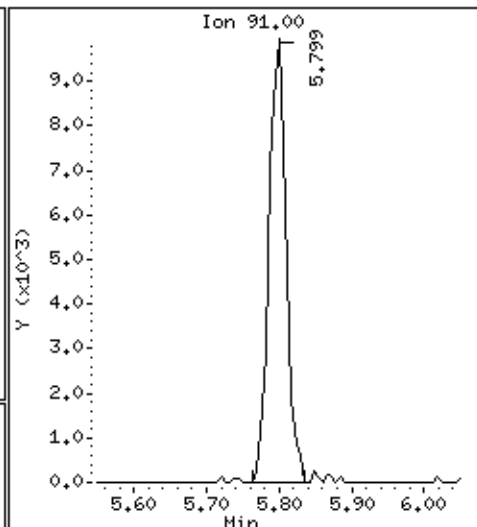
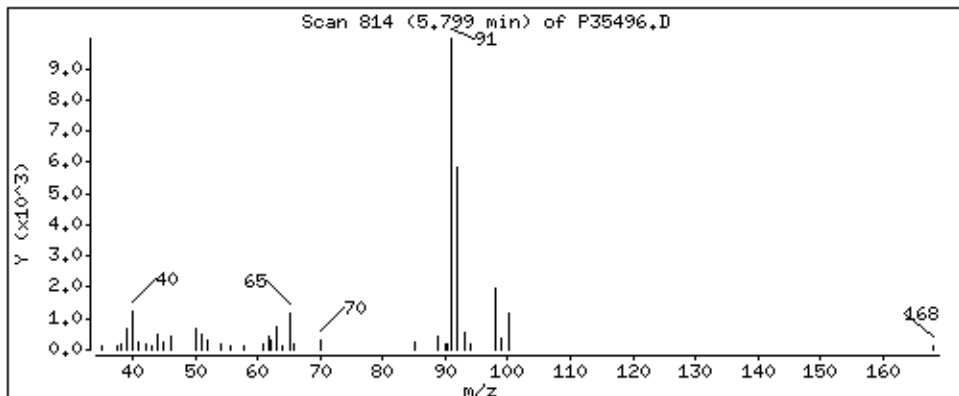
Column phase: RTX-624

Column diameter: 0,18

71 Toluene

Concentration: 1,27 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35496.D  
Injection Date: 20-OCT-2021 10:20  
Instrument: 70msv8.i  
Lab Sample ID: 70191351001  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-5A/AR MS/MSD

Lab Name: Pace Analytical - New York Contract: VAILS GATE MANUFACTURING 10/15  
Date Received: 10/16/2021 10:30 Matrix: Water SDG No.: 70191351  
Date Extracted: 10/20/2021 20:45 Lab Sample ID: 70191351001  
Date Analyzed: 10/20/2021 20:45 Lab File ID: 102021.B\B10665.D  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 70MSV9 Percent Moisture:       

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane (p-Dioxane)	75.7	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10665.D  
 Report Date: 20-Oct-2021 21:14

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\102021.b\B10665.D  
 Lab Smp Id: 70191351001 Client Smp ID: MW-5A/AR MS/MSD  
 Inj Date : 20-OCT-2021 20:45 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : 70191351001x5,  
 Misc Info : 12761,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
 Meth Date : 20-Oct-2021 18:38 70msv9.i Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 15  
 Dil Factor: 5.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
* 45 Fluorobenzene (IS)	96	4.128	4.128	(1.000)	2376667	5.00000		
188 1,4-Dioxane	88	4.902	4.909	(1.187)	138360	15.1445	75.7	
\$ 90 4-Bromofluorobenzene (S)	95	8.174	8.180	(1.980)	802538	5.60433	5.60	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152	9.668	9.668	(2.342)	665167	4.95292	4.95	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10665.D  
Report Date: 20-Oct-2021 21:14

Pace Analytical Services, Inc.

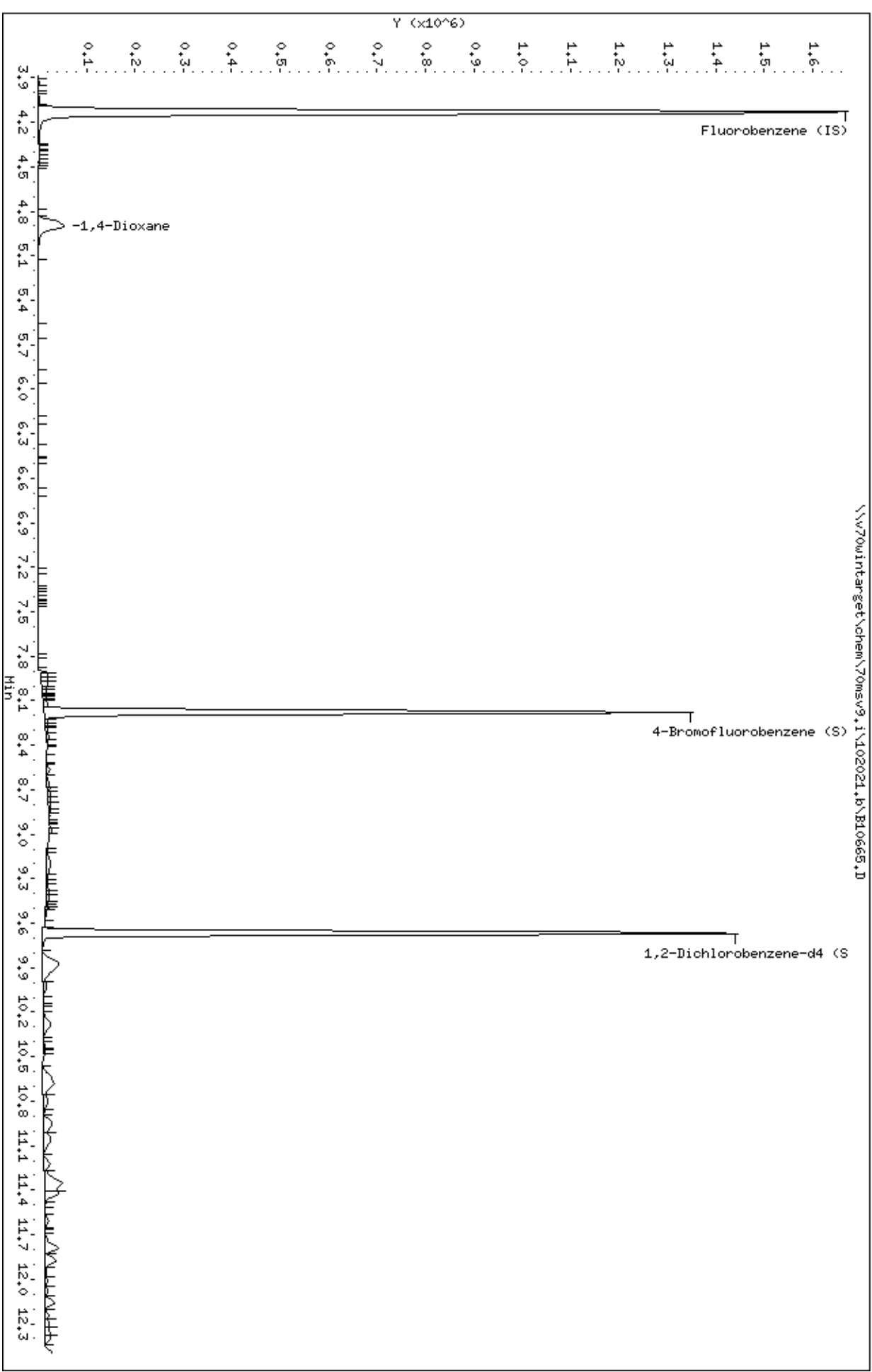
RECOVERY REPORT

Client Name: Leader Consulting S                      Client SDG: 70191351  
Sample Matrix: Liquid                                      Fraction: VOA  
Lab Smp Id: 70191351001                                  Client Smp ID: MW-5A/AR MS/MSD  
Level: LOW    Operator: BBL  
Data Type: MS DATA                                        SampleType: SAMPLE  
SpikeList File: lcs.spk                                    Quant Type: ISTD  
Sublist File: all.sub  
Method File: \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
Misc Info: 12761,

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 90 4-Bromofluorobenze	5.00	5.60	112.09	79-124
\$ 53 1,2-Dichlorobenzen	5.00	4.95	99.06	60-140

Data File: \\w70wintarget\chem\70msv9.1\102021.b\B10665.D  
Date: 20-OCT-2021 20:45  
Client ID: HM-SR/AR HS/HSD  
Sample Info: 70191351001x5,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10665.D

Date : 20-OCT-2021 20:45

Client ID: MW-5A/AR MS/MSD

Instrument: 70msv9.i

Sample Info: 70191351001x5,

Purge Volume: 5.0

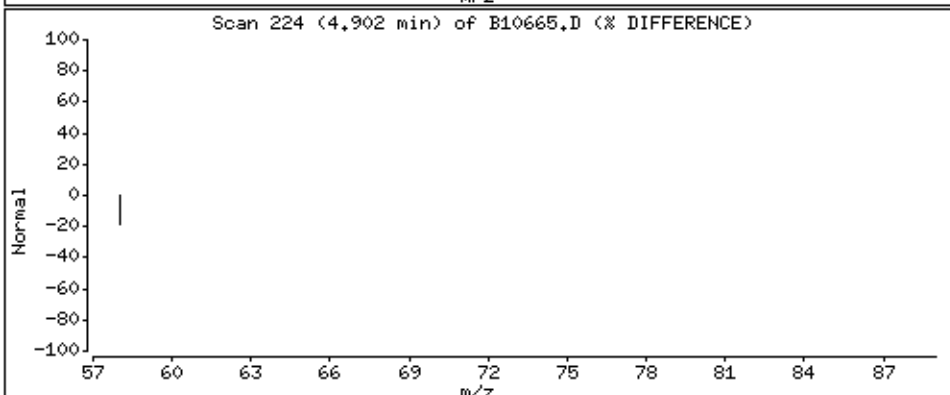
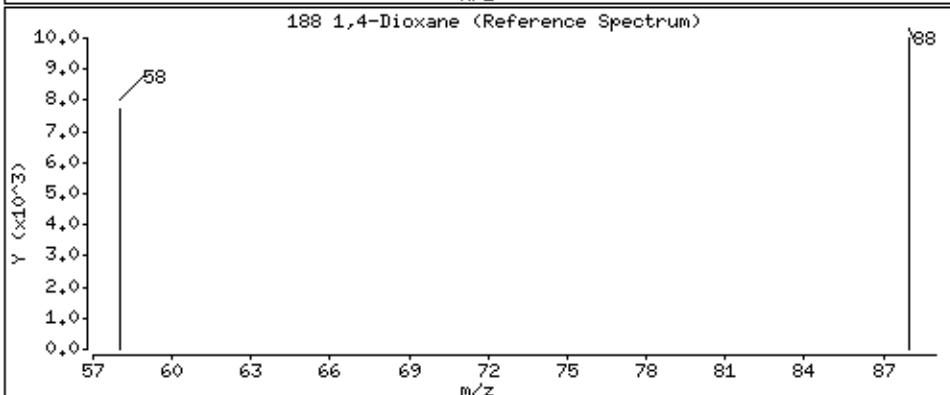
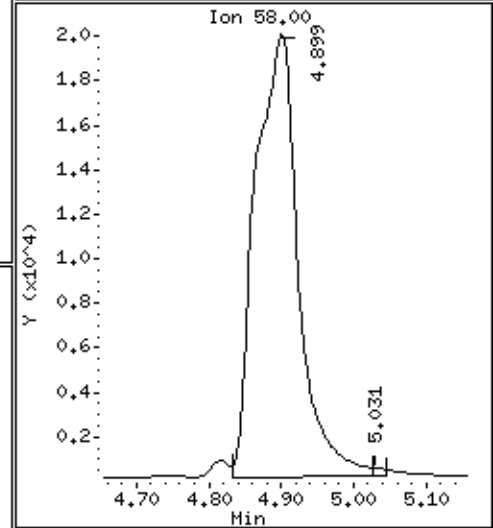
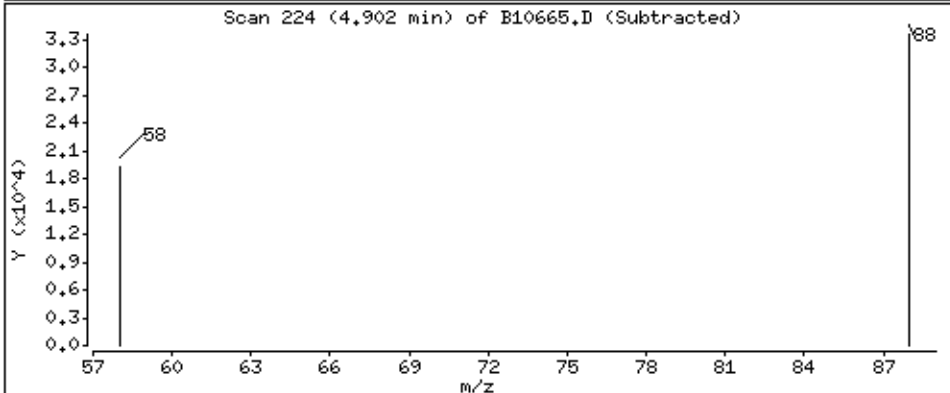
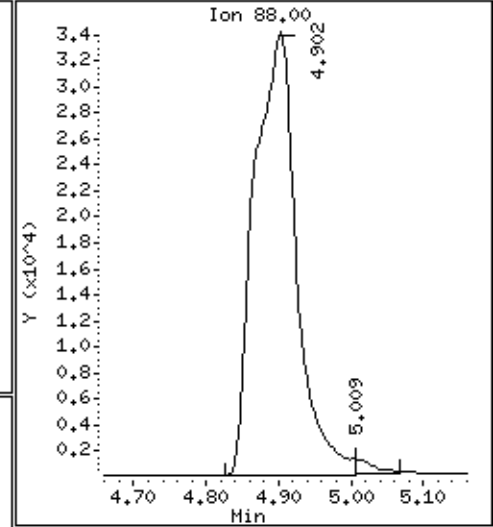
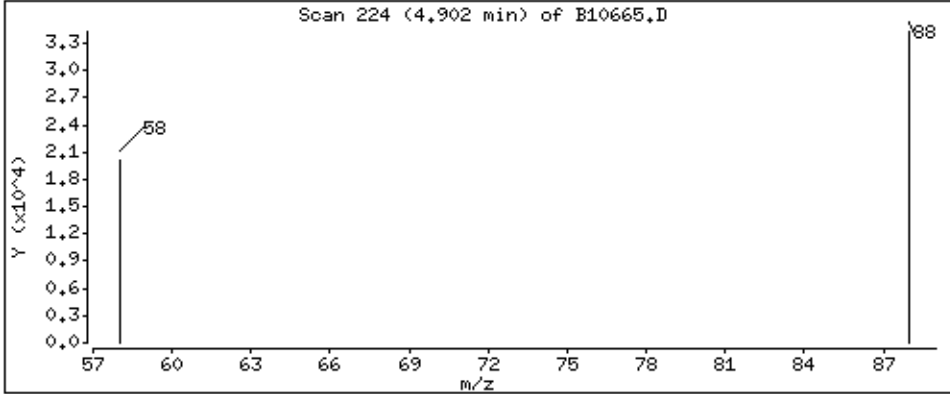
Operator: BBL

Column phase: RTX-624

Column diameter: 0,18

188 1,4-Dioxane

Concentration: 75,7 ug/L



Data File: \\v70wintarget\chem\70msv9.i\102021.b/B10665.D  
Injection Date: 20-OCT-2021 20:45  
Instrument: 70msv9.i  
Lab Sample ID: 70191351001  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-14

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 10:39  
Date Analyzed: 10/20/2021 10:39  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 70191351002  
Lab File ID: 102021.B\P35497.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<5.0	U
71-43-2	Benzene	<1.0	U
108-86-1	Bromobenzene	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<1.0	U
74-83-9	Bromomethane	<1.0	U
78-93-3	2-Butanone (MEK)	<5.0	U
104-51-8	n-Butylbenzene	<1.0	U
135-98-8	sec-Butylbenzene	<1.0	U
98-06-6	tert-Butylbenzene	<1.0	U
75-15-0	Carbon disulfide	<1.0	U
56-23-5	Carbon tetrachloride	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
75-00-3	Chloroethane	<1.0	U
67-66-3	Chloroform	<1.0	U
74-87-3	Chloromethane	<1.0	U
95-49-8	2-Chlorotoluene	<1.0	U
106-43-4	4-Chlorotoluene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane (EDB)	<1.0	U
74-95-3	Dibromomethane	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
75-71-8	Dichlorodifluoromethane	<1.0	U
75-34-3	1,1-Dichloroethane	15.1	
107-06-2	1,2-Dichloroethane	<1.0	U
75-35-4	1,1-Dichloroethene	1.9	
156-59-2	cis-1,2-Dichloroethene	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
142-28-9	1,3-Dichloropropane	<1.0	U
594-20-7	2,2-Dichloropropane	<1.0	U
563-58-6	1,1-Dichloropropene	<1.0	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U

11/11/2021 2:03



MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-14

Lab Name: Pace Analytical - New York  
 Date Received: 10/16/2021 10:30  
 Date Extracted: 10/20/2021 10:39  
 Date Analyzed: 10/20/2021 10:39  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
 Matrix: Water SDG No.: 70191351  
 Lab Sample ID: 70191351002  
 Lab File ID: 102021.B\P35497.D  
 Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
123-91-1	1,4-Dioxane (p-Dioxane)	<100	U
100-41-4	Ethylbenzene	<1.0	U
87-68-3	Hexachloro-1,3-butadiene	<1.0	U
591-78-6	2-Hexanone	<5.0	U
98-82-8	Isopropylbenzene (Cumene)	<1.0	U
99-87-6	p-Isopropyltoluene	<1.0	U
75-09-2	Methylene Chloride	<1.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	U
1634-04-4	Methyl-tert-butyl ether	<1.0	U
91-20-3	Naphthalene	<1.0	U
103-65-1	n-Propylbenzene	<1.0	U
100-42-5	Styrene	<1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
108-88-3	Toluene	<1.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
79-01-6	Trichloroethene	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
96-18-4	1,2,3-Trichloropropane	<1.0	U
95-63-6	1,2,4-Trimethylbenzene	<1.0	U
108-67-8	1,3,5-Trimethylbenzene	<1.0	U
108-05-4	Vinyl acetate	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
1330-20-7	Xylene (Total)	<3.0	U
179601-23-1	m&p-Xylene	<2.0	U
95-47-6	o-Xylene	<1.0	U

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35497.D  
 Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35497.D  
 Lab Smp Id: 70191351002 Client Smp ID: MW-14  
 Inj Date : 20-OCT-2021 10:39 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 70191351002,  
 Misc Info : 12755,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS					REVIEW C
			ON-COLUMN	FINAL	RT	EXP RT	REL RT	
	MASS		( ug/L)	( ug/L)				
1 Chlorodifluoromethane	51							
2 Dichlorotetrafluoroethane	135							
3 Dichlorodifluoromethane	85							
4 Chloromethane	50							
5 Vinyl chloride	62							
6 1,3-Butadiene	54							
7 Acetaldehyde	44							(D)
8 Bromomethane	94							
9 Chloroethane	64							
10 Dichlorofluoromethane	67							
11 Trichlorofluoromethane	101							
12 Ethanol	45							(D)
13 Diethyl ether (Ethyl ether)	59							
16 1,1,2-Trichlorotrifluoroethane	101							
14 Acrolein	56							
15 1,1-Dichloroethene	96		1.946	1.946	(0.528)	4664	1.91193	1.91
17 Acetone	43		2.037	2.037	(0.553)	7765	4.78027	4.78
18 Iodomethane	142							
19 2-Propanol	45							(D)
20 Carbon disulfide	76							
21 Allyl chloride	76							
22 Acetonitrile	41							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
23 Methyl acetate	43							
24 Methylene Chloride	84							
25 tert-Butyl Alcohol	59							
28 Methyl-tert-butyl ether	73							
27 trans-1,2-Dichloroethene	96							
26 Acrylonitrile	53							
30 n-Hexane	57							
29 Diisopropyl ether	45							
32 Vinyl acetate	43							
31 1,1-Dichloroethane	63	2.806	2.805	(0.762)	80937	15.1275	15.1	
33 Chloroprene	53							
34 Ethyl-tert-butyl ether	59							
36 2,2-Dichloropropane	77							
35 cis-1,2-Dichloroethene	96							
39 Ethyl acetate	61							
37 2-Butanone (MEK)	43							(D)
41 Bromochloromethane	128							
42 Tetrahydrofuran	42							
43 Chloroform	83							
38 Propionitrile	54							
46 Cyclohexane	56							
45 1,1,1-Trichloroethane	97							
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	333384	50.0000		
48 Carbon tetrachloride	117							(D)
47 1,1-Dichloropropene	75							(D)
55 2,2,4-Trimethylpentane	57							
51 Benzene	78							
40 Methacrylonitrile	67							
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.952	3.945	(0.917)	181512	48.8068	48.8	
56 tert-Amylmethyl ether	73							
52 1,2-Dichloroethane	62							
57 n-Heptane	43							
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	559703	50.0000		
59 Trichloroethene	95							
60 Methylcyclohexane	83							
49 Isobutanol	43							
53 tert-Amyl Alcohol	59							
54 tert-Amyl ethyl ether	59							
61 1,2-Dichloropropane	63							
63 Methyl methacrylate	69							
64 1,4-Dioxane (p-Dioxane)	88							(D)
62 Dibromomethane	93							
65 Bromodichloromethane	83							
66 2-Nitropropane	43							
67 2-Chloroethylvinyl ether	63							
68 cis-1,3-Dichloropropene	75							
69 4-Methyl-2-pentanone (MIBK)	43							(D)
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.771)	695429	51.2551	51.2	
71 Toluene	91							
72 Methyl isothiocyanate	73							
74 trans-1,3-Dichloropropene	75							
75 Ethyl methacrylate	69							
76 1,1,2-Trichloroethane	83							
77 Tetrachloroethene	166							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76							
79 2-Hexanone	43							
73 n-Octane	43							
81 n-Butyl acetate	43							
80 Dibromochloromethane	129							
82 1,2-Dibromoethane (EDB)	107							
* 83 Chlorobenzene-d5 (IS)	82	7.427	7.426	(1.000)	280051	50.0000		
84 Chlorobenzene	112							
86 Ethylbenzene	106							
85 1,1,1,2-Tetrachloroethane	131							
88 n-Nonane	43							
87 m&p-Xylene	106							
89 o-Xylene	106							
90 Styrene	104							
91 Bromoform	173							
92 Isopropylbenzene (Cumene)	105							
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.215)	254191	51.0413	51.0	
94 Bromobenzene	156							
95 1,1,2,2-Tetrachloroethane	83							
98 n-Propylbenzene	91							
96 1,2,3-Trichloropropane	110							
97 trans-1,4-Dichloro-2-butene	53							
103 n-Decane	43							
99 2-Chlorotoluene	91							
100 4-Ethyltoluene	105							
101 1,3,5-Trimethylbenzene	105							
102 4-Chlorotoluene	91							
104 tert-Butylbenzene	119							
105 Pentachloroethane	167							
106 1,2,4-Trimethylbenzene	105							
107 sec-Butylbenzene	105							
109 d-Limonene	136							
110 p-Isopropyltoluene	119							
108 1,3-Dichlorobenzene	146							
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.066	10.072	(1.000)	250550	50.0000		
112 1,4-Dichlorobenzene	146							
113 1,2,3-Trimethylbenzene	105							
114 Benzyl chloride	91							(D)
115 trans-Decalin	138							
116 1,4-Diethylbenzene	119							
117 n-Butylbenzene	91							
119 n-Undecane	43							
118 1,2-Dichlorobenzene	146							
120 cis-Decalin	138							
121 1,2,4,5-tetramethylbenzene	119							
122 1,2-Dibromo-3-chloropropane	75							
123 n-Dodecane	43							
124 1,2,4-Trichlorobenzene	180							
125 Hexachloro-1,3-butadiene	225							
126 Naphthalene	128							
127 1,2,3-Trichlorobenzene	180							

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35497.D  
Report Date: 21-Oct-2021 11:08

QC Flag Legend

D - User disabled compound identification.

Review Codes Legend

:

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35497.D  
Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

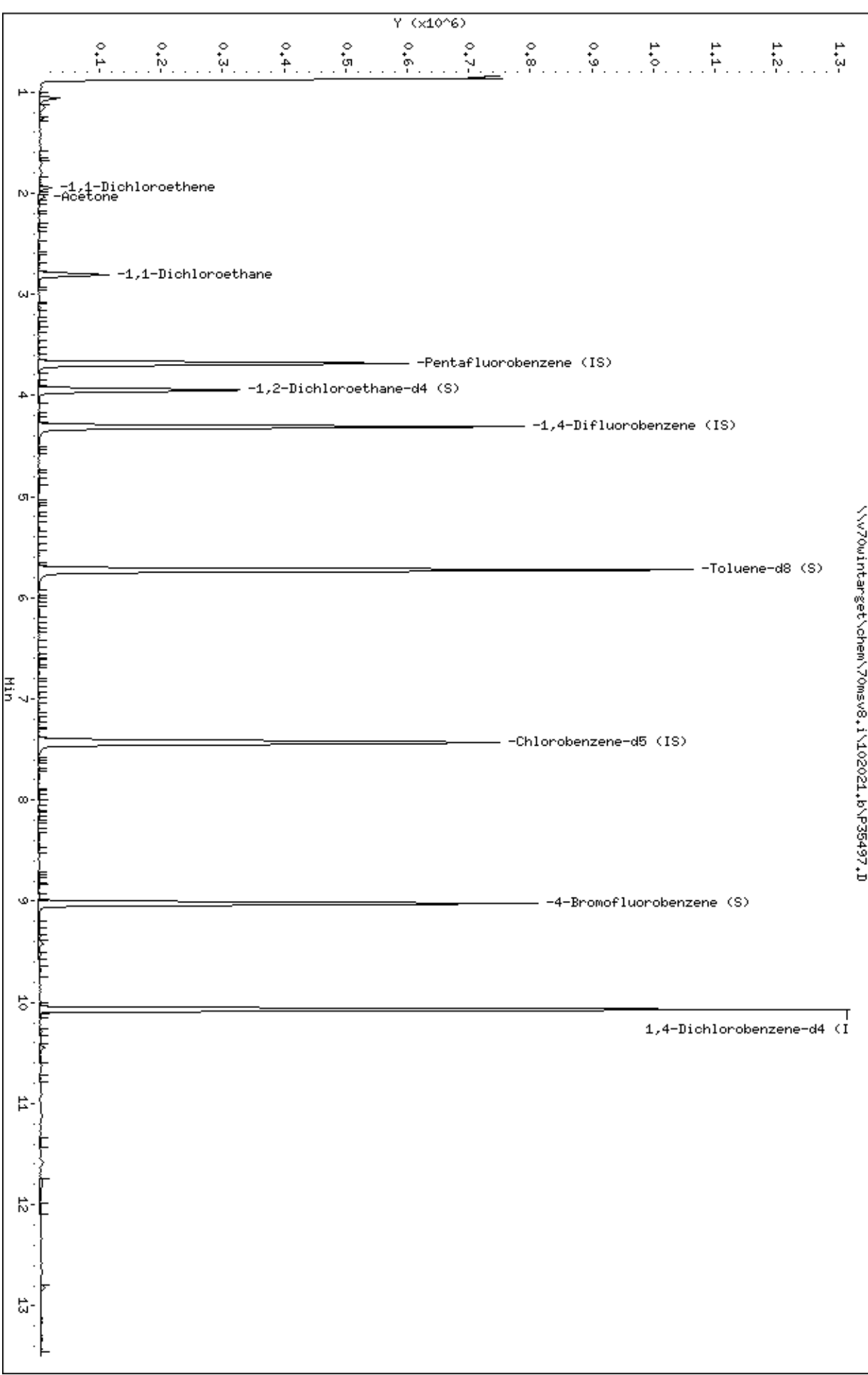
SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35497.D  
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Operator : KGG Inst ID: 70msv8.i  
Smp Info : 70191351002,  
Misc Info : 12755,  
Comment :  
Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
Als bottle: 10  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 8260.sub  
Target Version: RC10A  
Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\v70wintarget\chem\70msv8.1\102021.b\p35497.D  
Date: 20-OCT-2021 10:39  
Client ID: HM-14  
Sample Info: 70191351002,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv8.1  
Operator: KGS  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35497.D

Date : 20-OCT-2021 10:39

Client ID: MW-14

Instrument: 70msv8.i

Sample Info: 70191351002,

Purge Volume: 5.0

Operator: KGG

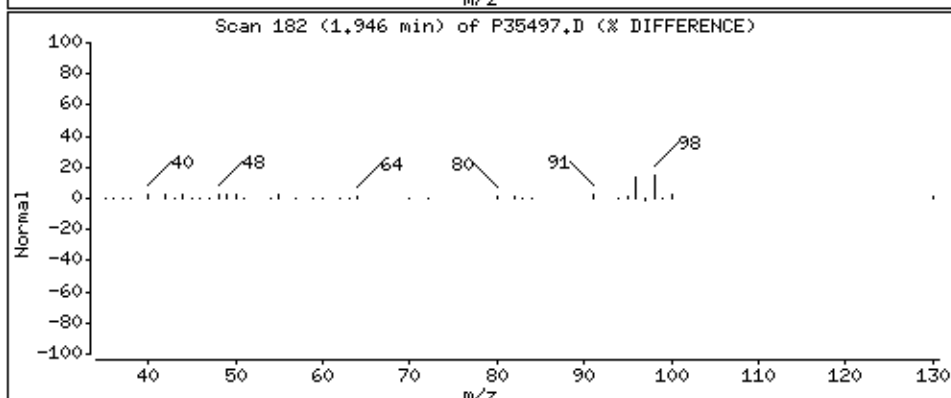
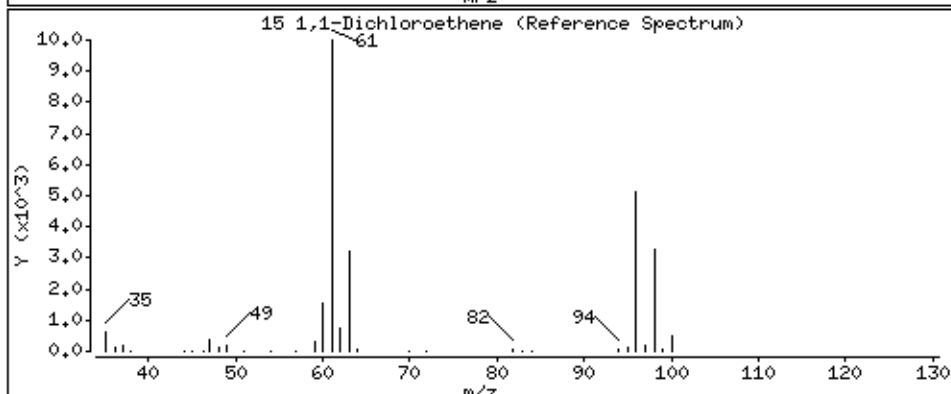
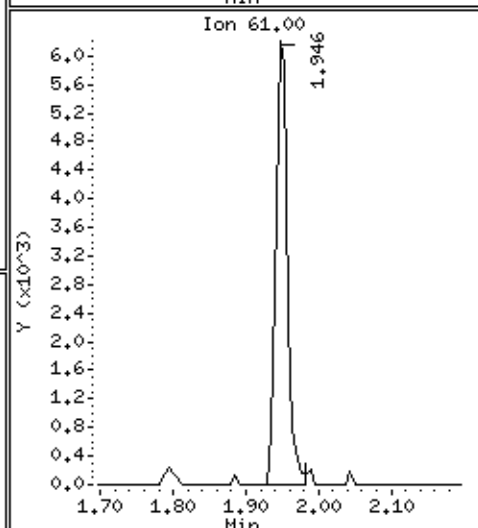
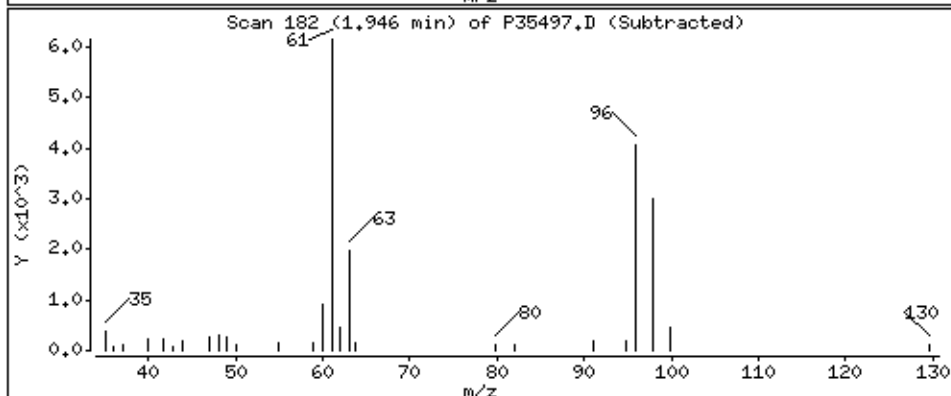
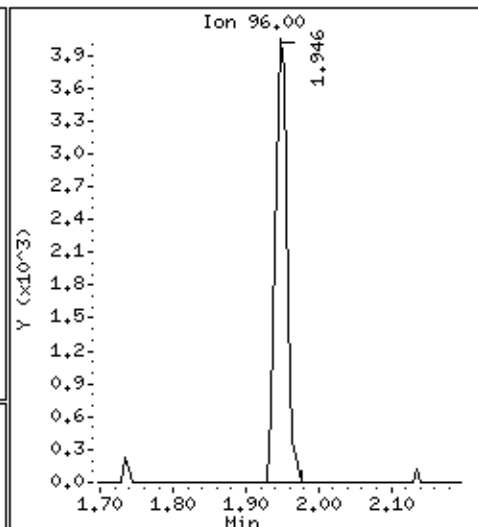
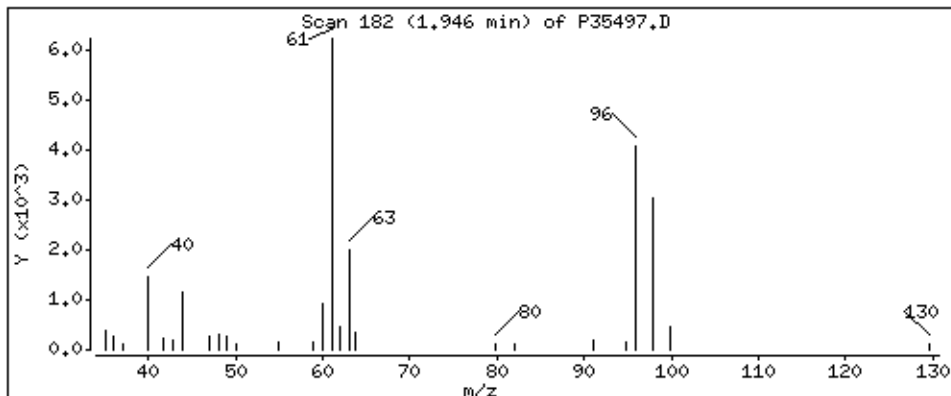
Column phase: RTX-624

Column diameter: 0,18

15 1,1-Dichloroethene

Concentration: 1,91 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35497.D

Date : 20-OCT-2021 10:39

Client ID: MW-14

Instrument: 70msv8.i

Sample Info: 70191351002,

Purge Volume: 5.0

Operator: KGG

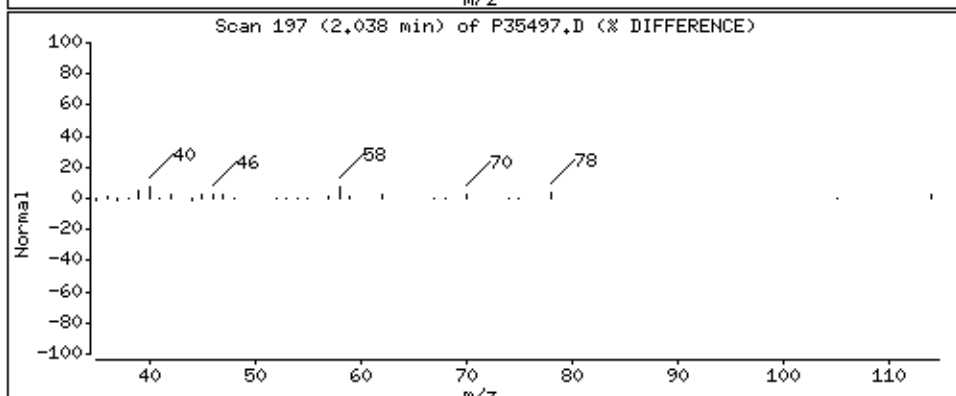
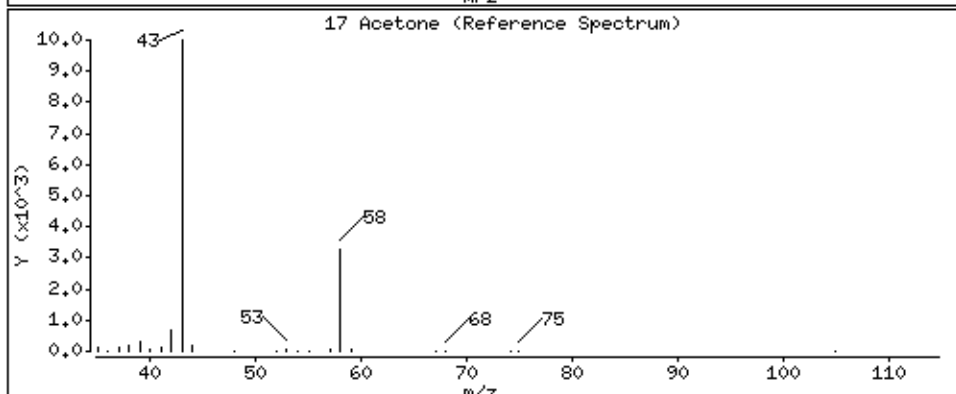
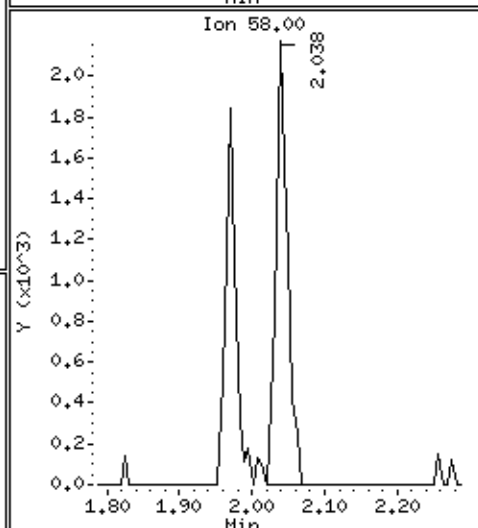
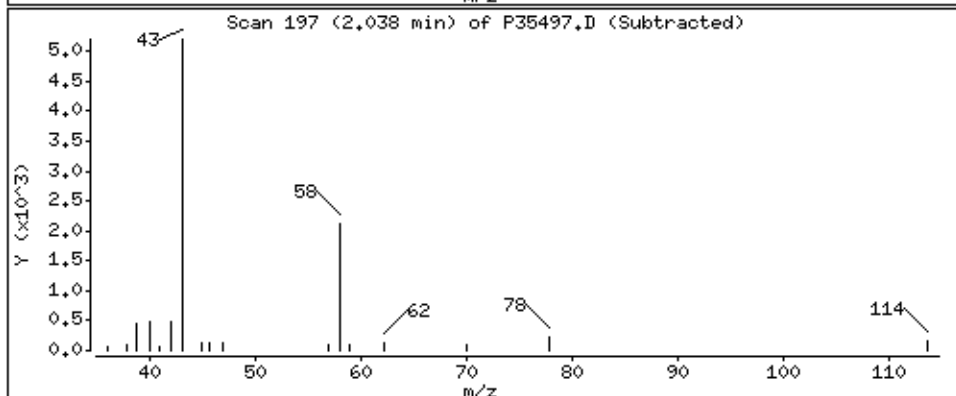
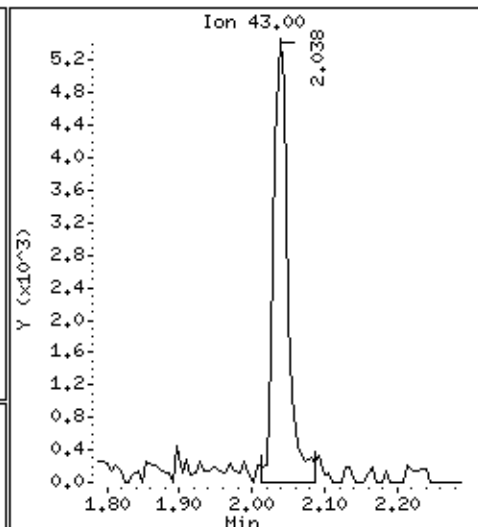
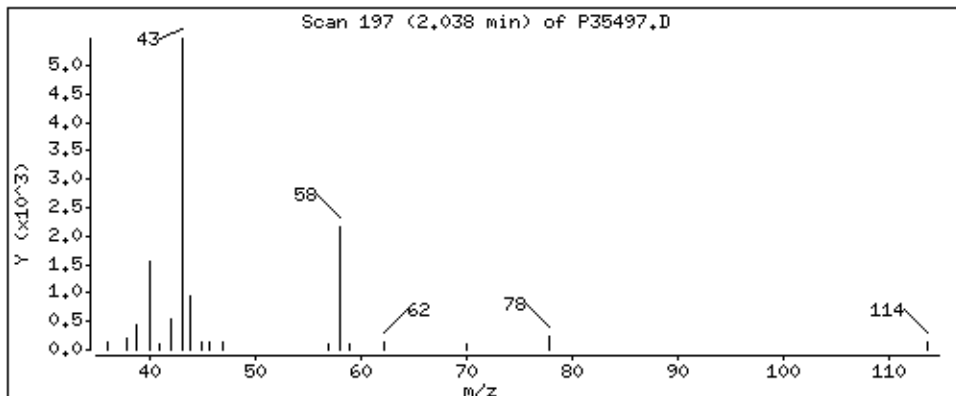
Column phase: RTX-624

Column diameter: 0,18

17 Acetone

Concentration: 4,78 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35497.D

Date : 20-OCT-2021 10:39

Client ID: MW-14

Instrument: 70msv8.i

Sample Info: 70191351002,

Purge Volume: 5.0

Operator: KGG

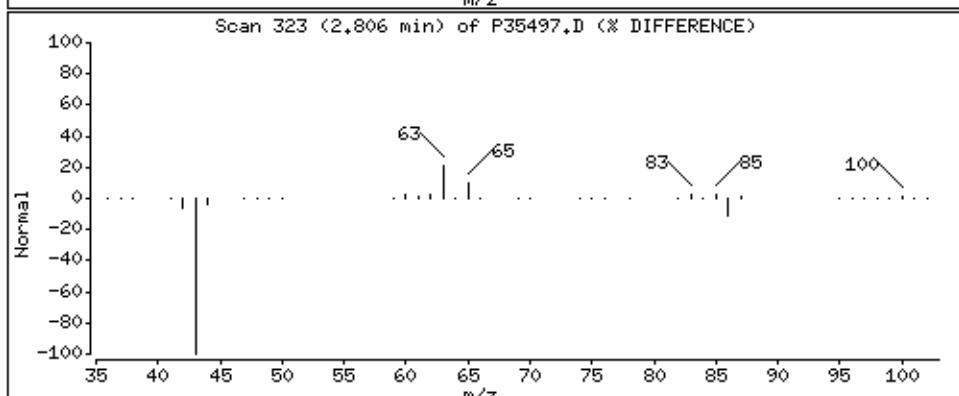
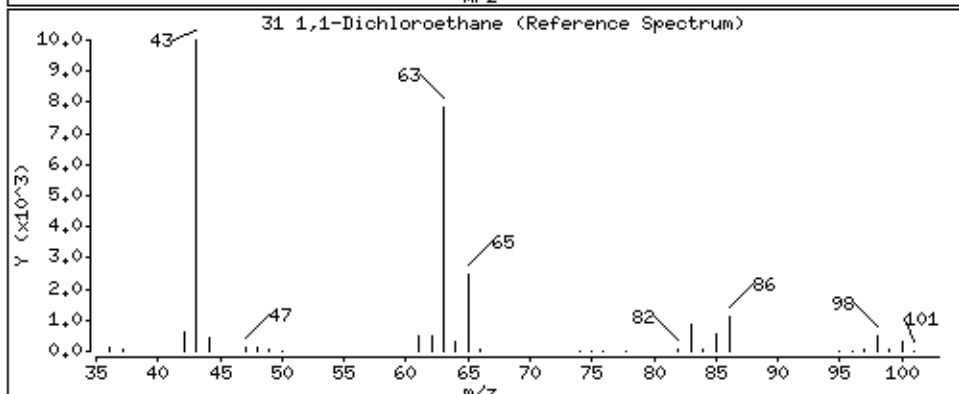
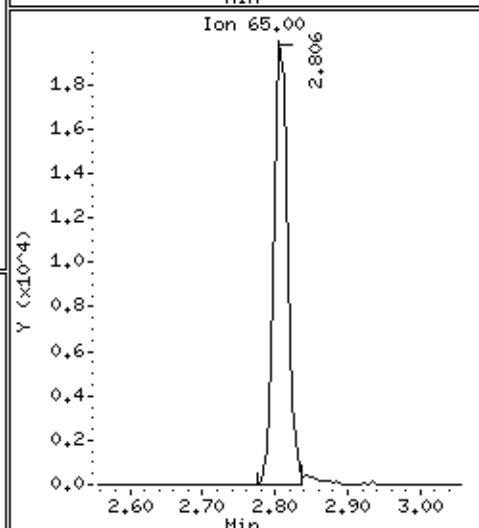
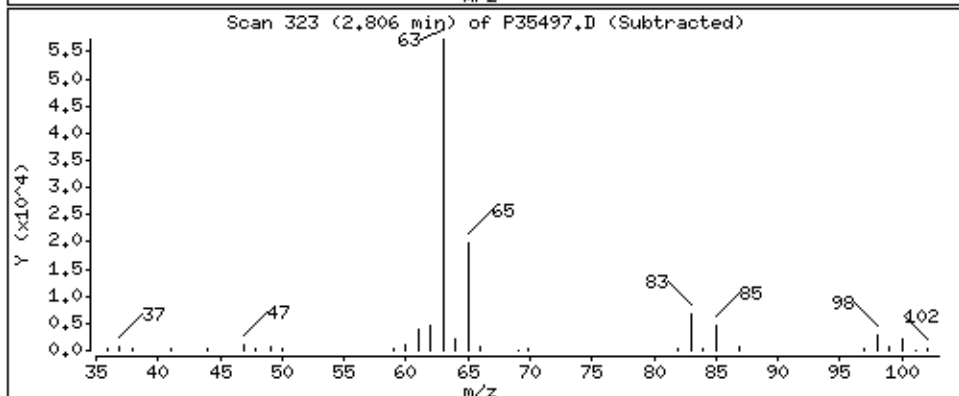
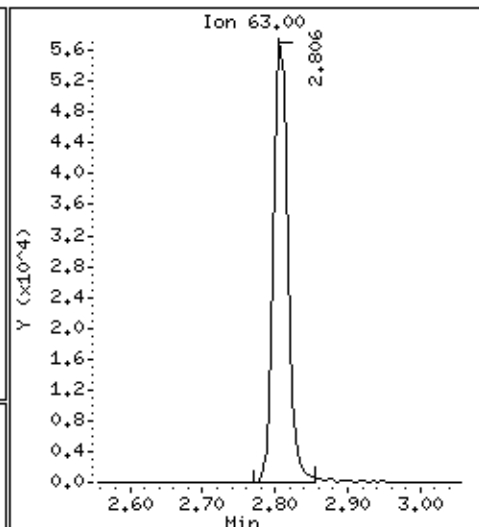
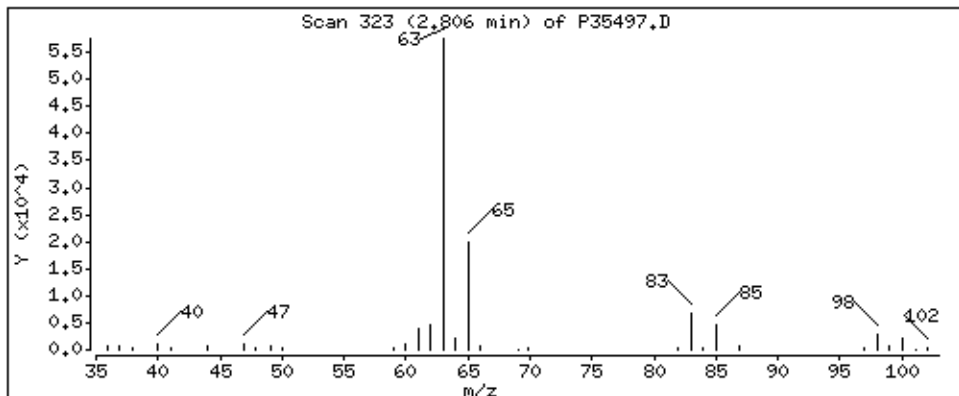
Column phase: RTX-624

Column diameter: 0,18

31 1,1-Dichloroethane

Concentration: 15,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35497.D  
Injection Date: 20-OCT-2021 10:39  
Instrument: 70msv8.i  
Lab Sample ID: 70191351002  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-14

Lab Name: Pace Analytical - New York Contract: VAILS GATE MANUFACTURING 10/15  
Date Received: 10/16/2021 10:30 Matrix: Water SDG No.: 70191351  
Date Extracted: 10/20/2021 19:16 Lab Sample ID: 70191351002  
Date Analyzed: 10/20/2021 19:16 Lab File ID: 102021.B\B10662.D  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10 Instrument: 70MSV9 Percent Moisture:       

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane (p-Dioxane)	108	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10662.D  
 Report Date: 20-Oct-2021 21:14

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\102021.b\B10662.D  
 Lab Smp Id: 70191351002 Client Smp ID: MW-14  
 Inj Date : 20-OCT-2021 19:16 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : 70191351002x10,  
 Misc Info : 12761,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
 Meth Date : 20-Oct-2021 18:38 70msv9.i Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 12  
 Dil Factor: 10.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
							ON-COLUMN ( ug/L)	FINAL ( ug/L)	
* 45 Fluorobenzene (IS)	96		4.133	4.128	(1.000)	2262483	5.00000		
188 1,4-Dioxane	88		4.891	4.909	(1.183)	94043	10.8132	108	
\$ 90 4-Bromofluorobenzene (S)	95		8.174	8.180	(1.978)	836239	6.13439	6.13	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.339)	739009	5.78048	5.78	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10662.D  
Report Date: 20-Oct-2021 21:14

Pace Analytical Services, Inc.

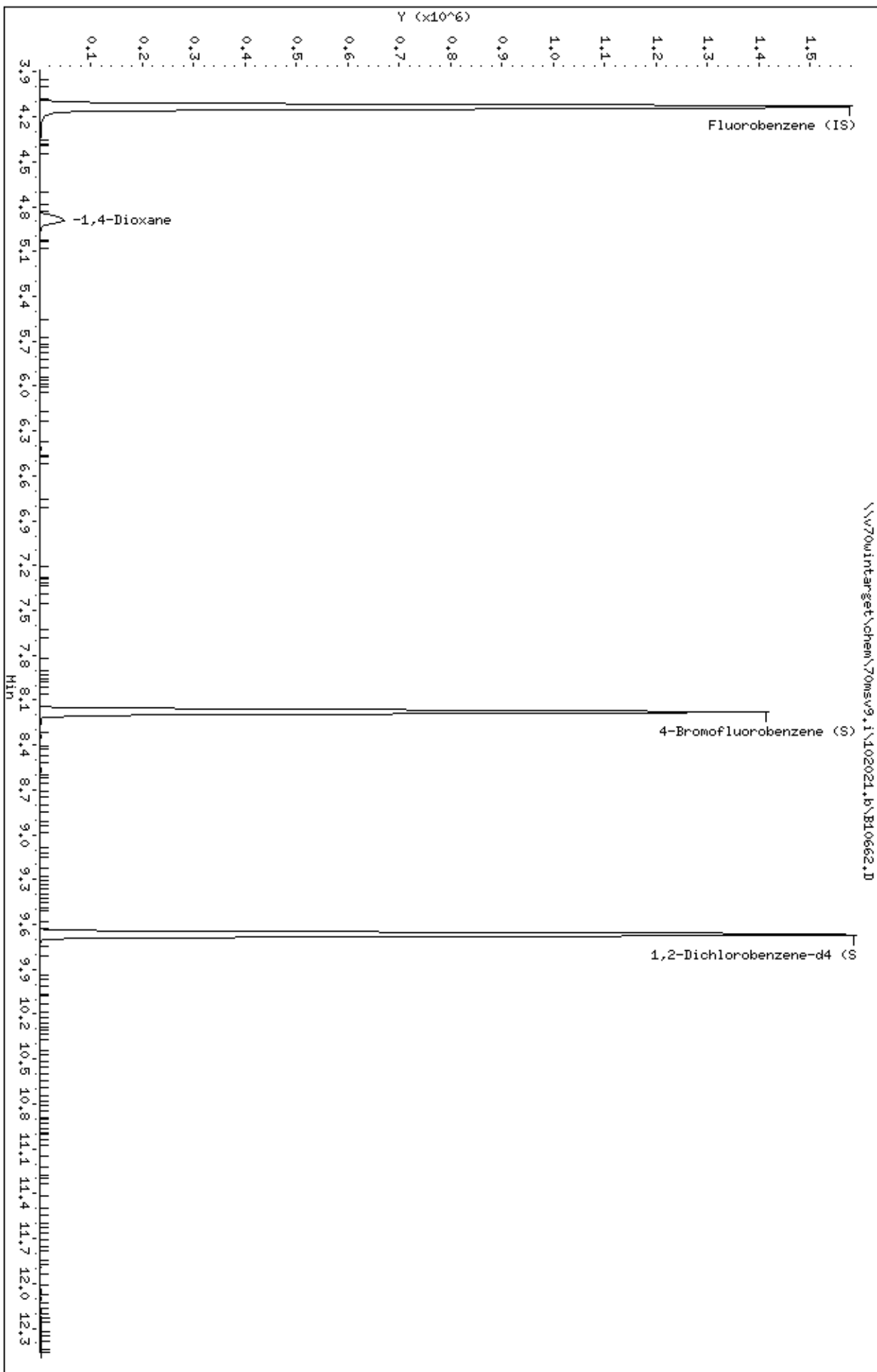
RECOVERY REPORT

Client Name: Leader Consulting S                      Client SDG: 70191351  
Sample Matrix: Liquid                                      Fraction: VOA  
Lab Smp Id: 70191351002                                  Client Smp ID: MW-14  
Level: LOW    Operator: BBL  
Data Type: MS DATA                                        SampleType: SAMPLE  
SpikeList File: lcs.spk                                    Quant Type: ISTD  
Sublist File: all.sub  
Method File: \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
Misc Info: 12761,

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 90 4-Bromofluorobenze	5.00	6.13	122.69	79-124
\$ 53 1,2-Dichlorobenzen	5.00	5.78	115.61	60-140

Data File: \\w70wintarget\chem\70msv9.1\102021.b\B10662.D  
Date: 20-OCT-2021 19:16  
Client ID: HM-14  
Sample Info: 70191351002x10,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10662.D

Date : 20-OCT-2021 19:16

Client ID: MW-14

Instrument: 70msv9.i

Sample Info: 70191351002x10,

Purge Volume: 5.0

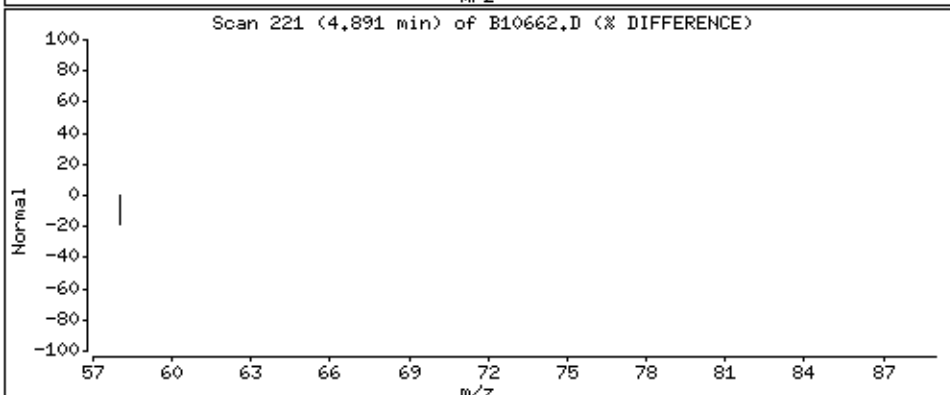
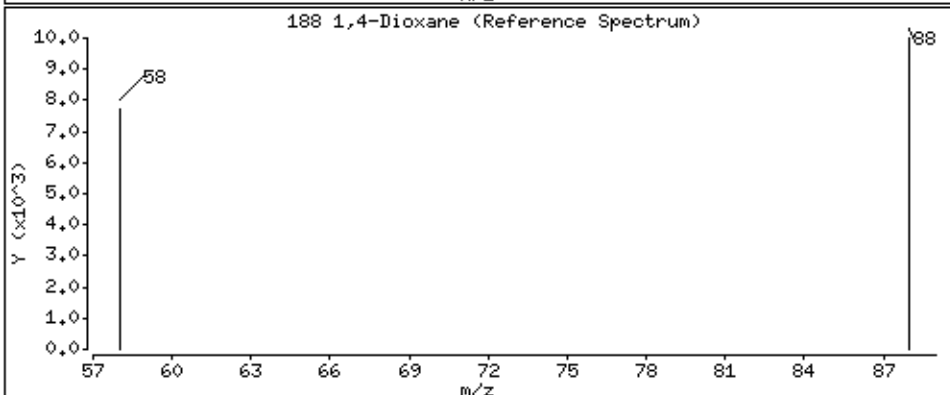
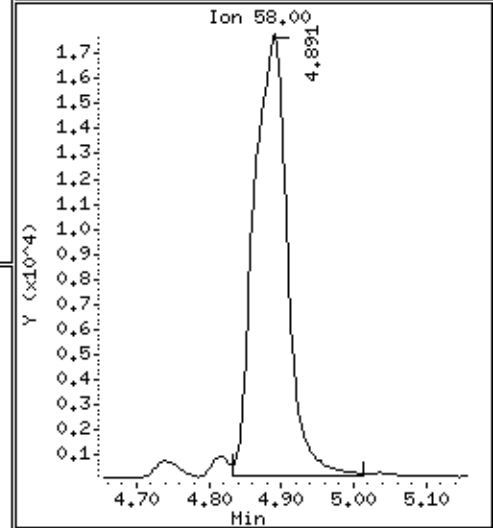
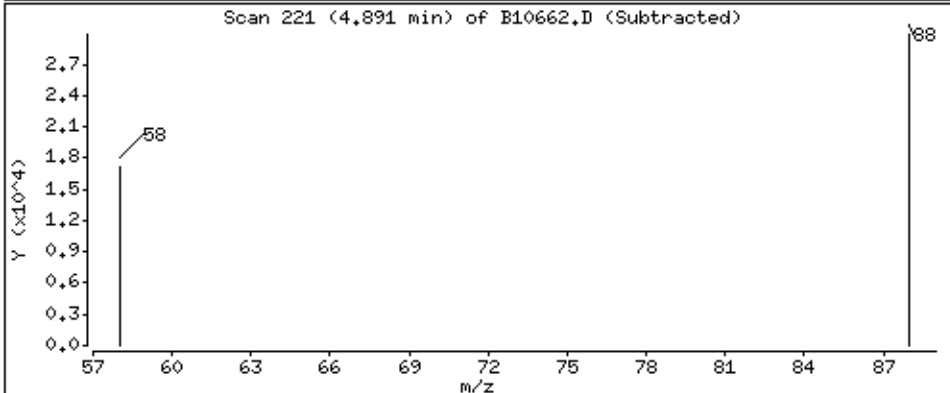
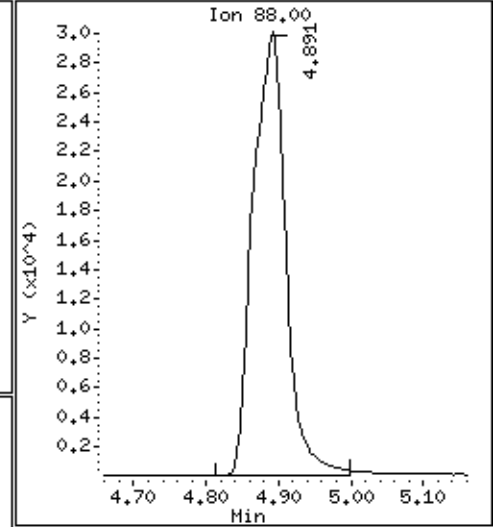
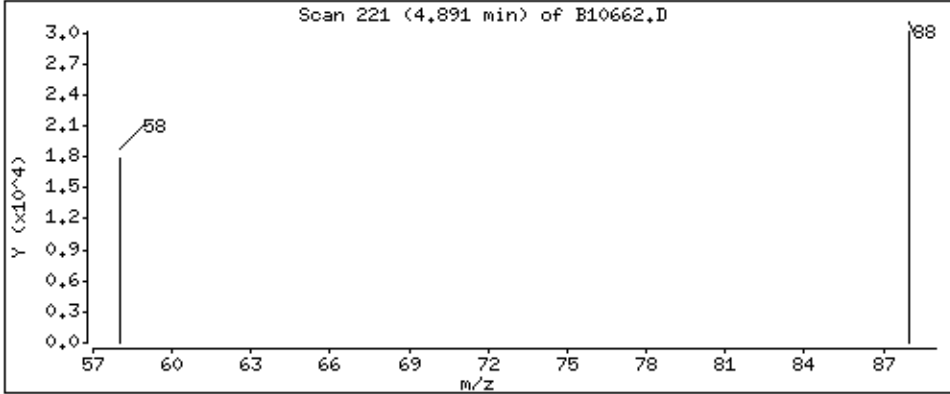
Operator: BBL

Column phase: RTX-624

Column diameter: 0,18

188 1,4-Dioxane

Concentration: 108 ug/L





Data File: \\v70wintarget\chem\70msv9.i\102021.b/B10662.D  
Injection Date: 20-OCT-2021 19:16  
Instrument: 70msv9.i  
Lab Sample ID: 70191351002  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 10:58  
Date Analyzed: 10/20/2021 10:58  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 70191351003  
Lab File ID: 102021.B\IP35498.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<5.0	U
71-43-2	Benzene	<1.0	U
108-86-1	Bromobenzene	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<1.0	U
74-83-9	Bromomethane	<1.0	U
78-93-3	2-Butanone (MEK)	<5.0	U
104-51-8	n-Butylbenzene	<1.0	U
135-98-8	sec-Butylbenzene	<1.0	U
98-06-6	tert-Butylbenzene	<1.0	U
75-15-0	Carbon disulfide	<1.0	U
56-23-5	Carbon tetrachloride	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
75-00-3	Chloroethane	<1.0	U
67-66-3	Chloroform	<1.0	U
74-87-3	Chloromethane	<1.0	U
95-49-8	2-Chlorotoluene	<1.0	U
106-43-4	4-Chlorotoluene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane (EDB)	<1.0	U
74-95-3	Dibromomethane	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
75-71-8	Dichlorodifluoromethane	<1.0	U
75-34-3	1,1-Dichloroethane	1.8	
107-06-2	1,2-Dichloroethane	<1.0	U
75-35-4	1,1-Dichloroethene	1.2	
156-59-2	cis-1,2-Dichloroethene	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
142-28-9	1,3-Dichloropropane	<1.0	U
594-20-7	2,2-Dichloropropane	<1.0	U
563-58-6	1,1-Dichloropropene	<1.0	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U

11/11/2021 2:03

MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 10:58  
Date Analyzed: 10/20/2021 10:58  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 70191351003  
Lab File ID: 102021.B\P35498.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
123-91-1	1,4-Dioxane (p-Dioxane)	<100	U
100-41-4	Ethylbenzene	<1.0	U
87-68-3	Hexachloro-1,3-butadiene	<1.0	U
591-78-6	2-Hexanone	<5.0	U
98-82-8	Isopropylbenzene (Cumene)	<1.0	U
99-87-6	p-Isopropyltoluene	<1.0	U
75-09-2	Methylene Chloride	<1.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	U
1634-04-4	Methyl-tert-butyl ether	<1.0	U
91-20-3	Naphthalene	<1.0	U
103-65-1	n-Propylbenzene	<1.0	U
100-42-5	Styrene	<1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
108-88-3	Toluene	<1.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
79-01-6	Trichloroethene	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
96-18-4	1,2,3-Trichloropropane	<1.0	U
95-63-6	1,2,4-Trimethylbenzene	<1.0	U
108-67-8	1,3,5-Trimethylbenzene	<1.0	U
108-05-4	Vinyl acetate	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
1330-20-7	Xylene (Total)	<3.0	U
179601-23-1	m&p-Xylene	<2.0	U
95-47-6	o-Xylene	<1.0	U

11/11/2021 2:03

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35498.D  
 Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35498.D  
 Lab Smp Id: 70191351003 Client Smp ID: MW-16  
 Inj Date : 20-OCT-2021 10:58 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 70191351003,  
 Misc Info : 12755,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				REVIEW C
			ON-COLUMN	FINAL	RT	EXP RT	
	MASS		( ug/L)	( ug/L)			
1 Chlorodifluoromethane	51						
2 Dichlorotetrafluoroethane	135						
3 Dichlorodifluoromethane	85						
4 Chloromethane	50						
5 Vinyl chloride	62						
6 1,3-Butadiene	54						
7 Acetaldehyde	44						
8 Bromomethane	94						
9 Chloroethane	64						
10 Dichlorofluoromethane	67						
11 Trichlorofluoromethane	101						
12 Ethanol	45						(D)
13 Diethyl ether (Ethyl ether)	59						
16 1,1,2-Trichlorotrifluoroethane	101						
14 Acrolein	56						
15 1,1-Dichloroethene	96		1.952	1.946 (0.529)	3559	1.23303	1.23
17 Acetone	43						
18 Iodomethane	142						
19 2-Propanol	45						
20 Carbon disulfide	76						
21 Allyl chloride	76						
22 Acetonitrile	41						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
23 Methyl acetate	43							
24 Methylene Chloride	84							
25 tert-Butyl Alcohol	59							
28 Methyl-tert-butyl ether	73							
27 trans-1,2-Dichloroethene	96							
26 Acrylonitrile	53							
30 n-Hexane	57							
29 Diisopropyl ether	45							
32 Vinyl acetate	43							
31 1,1-Dichloroethane	63	2.806	2.805	(0.760)	11651	1.84042	1.84	
33 Chloroprene	53							
34 Ethyl-tert-butyl ether	59							
36 2,2-Dichloropropane	77							
35 cis-1,2-Dichloroethene	96							
39 Ethyl acetate	61							
37 2-Butanone (MEK)	43							
41 Bromochloromethane	128							
42 Tetrahydrofuran	42							
43 Chloroform	83							
38 Propionitrile	54							
46 Cyclohexane	56							
45 1,1,1-Trichloroethane	97							
* 44 Pentafluorobenzene (IS)	168	3.690	3.683	(1.000)	394468	50.0000		
48 Carbon tetrachloride	117							(D)
47 1,1-Dichloropropene	75							(D)
55 2,2,4-Trimethylpentane	57							
51 Benzene	78							
40 Methacrylonitrile	67							
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.946	3.945	(0.915)	229045	47.9659	48.0	
56 tert-Amylmethyl ether	73							
52 1,2-Dichloroethane	62							
57 n-Heptane	43							
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	718657	50.0000		
59 Trichloroethene	95							
60 Methylcyclohexane	83							
49 Isobutanol	43							
53 tert-Amyl Alcohol	59							
54 tert-Amyl ethyl ether	59							
61 1,2-Dichloropropane	63							
63 Methyl methacrylate	69							
64 1,4-Dioxane (p-Dioxane)	88							
62 Dibromomethane	93							
65 Bromodichloromethane	83							
66 2-Nitropropane	43							
67 2-Chloroethylvinyl ether	63							
68 cis-1,3-Dichloropropene	75							
69 4-Methyl-2-pentanone (MIBK)	43							(D)
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	901751	51.2342	51.2	
71 Toluene	91							
72 Methyl isothiocyanate	73							
74 trans-1,3-Dichloropropene	75							
75 Ethyl methacrylate	69							
76 1,1,2-Trichloroethane	83							
77 Tetrachloroethene	166							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76							
79 2-Hexanone	43							
73 n-Octane	43							
81 n-Butyl acetate	43							
80 Dibromochloromethane	129							
82 1,2-Dibromoethane (EDB)	107							
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.426	(1.000)	363285	50.0000		
84 Chlorobenzene	112							
86 Ethylbenzene	106							
85 1,1,1,2-Tetrachloroethane	131							
88 n-Nonane	43							
87 m&p-Xylene	106							
89 o-Xylene	106							
90 Styrene	104							
91 Bromoform	173							
92 Isopropylbenzene (Cumene)	105							
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	326270	50.5043	50.5	
94 Bromobenzene	156							
95 1,1,2,2-Tetrachloroethane	83							
98 n-Propylbenzene	91							
96 1,2,3-Trichloropropane	110							
97 trans-1,4-Dichloro-2-butene	53							
103 n-Decane	43							
99 2-Chlorotoluene	91							
100 4-Ethyltoluene	105							
101 1,3,5-Trimethylbenzene	105							
102 4-Chlorotoluene	91							
104 tert-Butylbenzene	119							
105 Pentachloroethane	167							
106 1,2,4-Trimethylbenzene	105							
107 sec-Butylbenzene	105							
109 d-Limonene	136							
110 p-Isopropyltoluene	119							
108 1,3-Dichlorobenzene	146							
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.066	10.072	(1.000)	303258	50.0000		
112 1,4-Dichlorobenzene	146							
113 1,2,3-Trimethylbenzene	105							
114 Benzyl chloride	91							
115 trans-Decalin	138							
116 1,4-Diethylbenzene	119							
117 n-Butylbenzene	91							
119 n-Undecane	43							
118 1,2-Dichlorobenzene	146							
120 cis-Decalin	138							
121 1,2,4,5-tetramethylbenzene	119							
122 1,2-Dibromo-3-chloropropane	75							
123 n-Dodecane	43							
124 1,2,4-Trichlorobenzene	180							
125 Hexachloro-1,3-butadiene	225							
126 Naphthalene	128							
127 1,2,3-Trichlorobenzene	180							

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35498.D  
Report Date: 21-Oct-2021 11:08

QC Flag Legend

D - User disabled compound identification.

Review Codes Legend

:

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35498.D  
Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

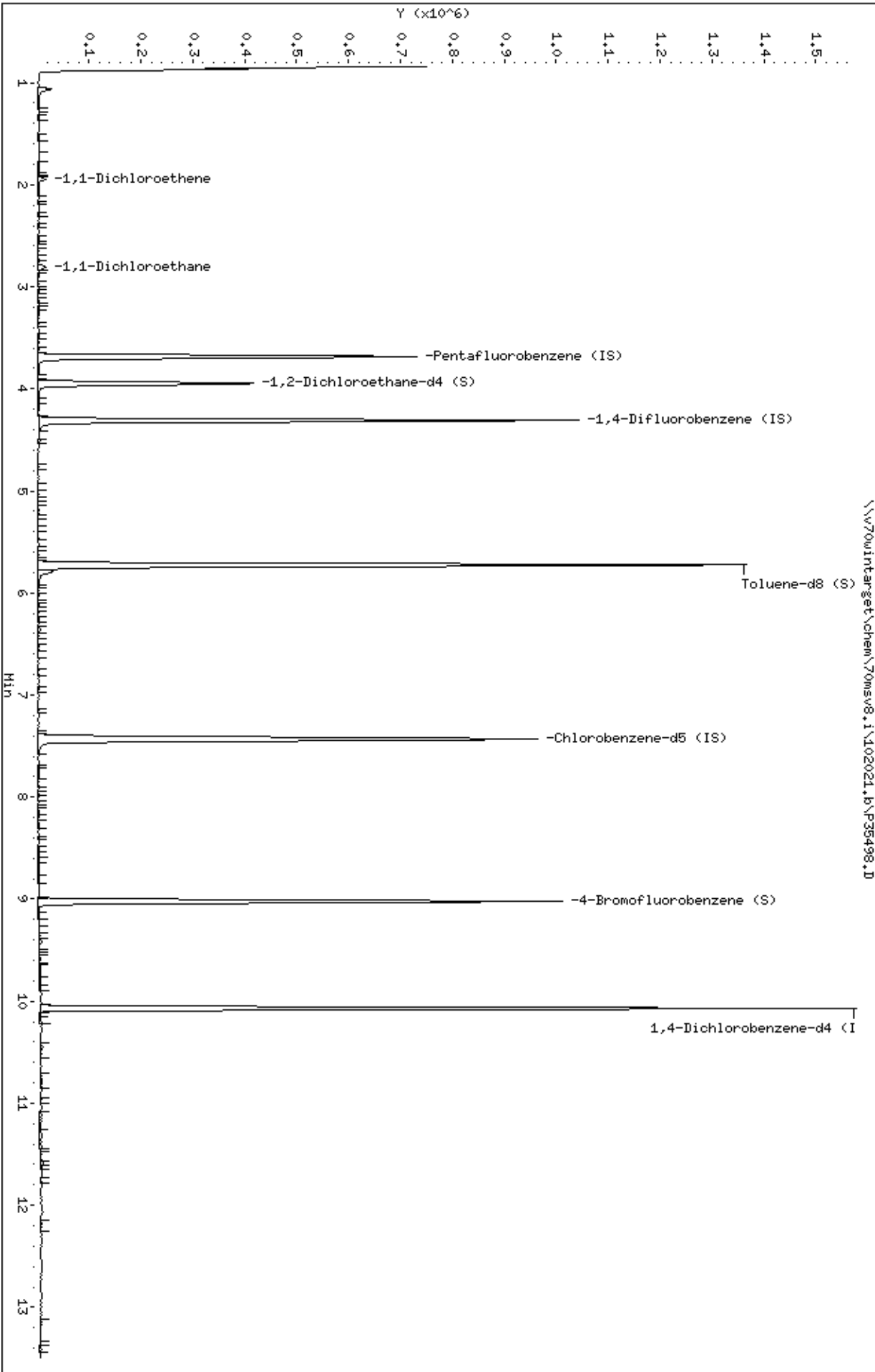
Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35498.D  
Lab Smp Id: 70191351003 Client Smp ID: MW-16  
Inj Date : 20-OCT-2021 10:58 MS Autotune Date: 14-MAY-2021 14:0  
Operator : KGG Inst ID: 70msv8.i  
Smp Info : 70191351003,  
Misc Info : 12755,  
Comment :  
Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
Als bottle: 11  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 8260.sub  
Target Version: RC10A  
Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



Data File: \\w70wintarget\chem\70msv8.1\102021.b\p35498.D  
Date: 20-OCT-2021 10:58  
Client ID: HM-16  
Sample Info: 70191351003,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv8.1  
Operator: KGS  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35498.D

Date : 20-OCT-2021 10:58

Client ID: MW-16

Instrument: 70msv8.i

Sample Info: 70191351003,

Purge Volume: 5.0

Operator: KGG

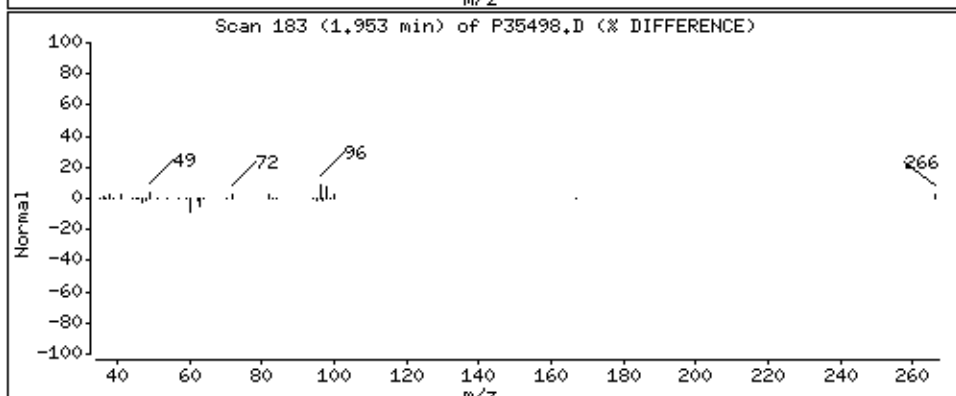
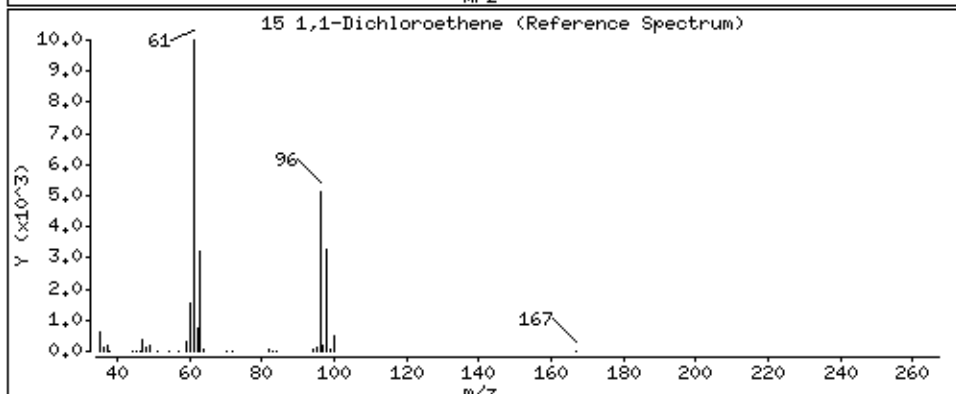
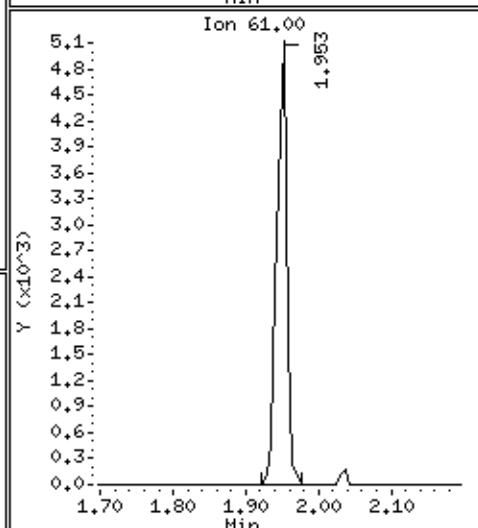
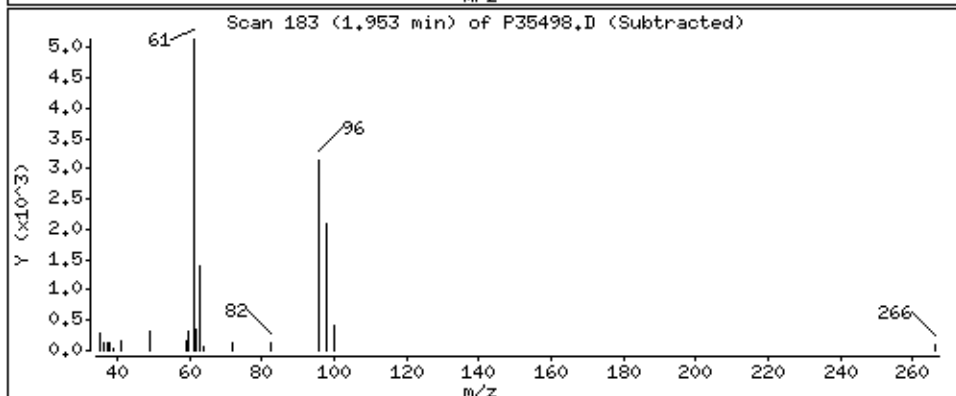
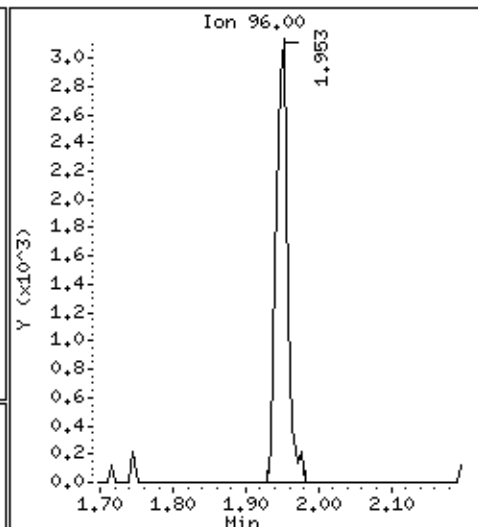
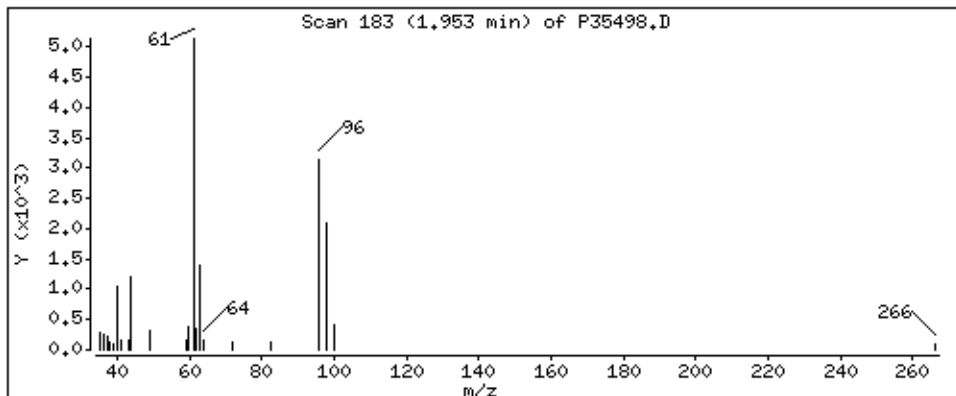
Column phase: RTX-624

Column diameter: 0,18

15 1,1-Dichloroethene

Concentration: 1,23 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35498.D

Date : 20-OCT-2021 10:58

Client ID: MW-16

Instrument: 70msv8.i

Sample Info: 70191351003,

Purge Volume: 5.0

Operator: KGG

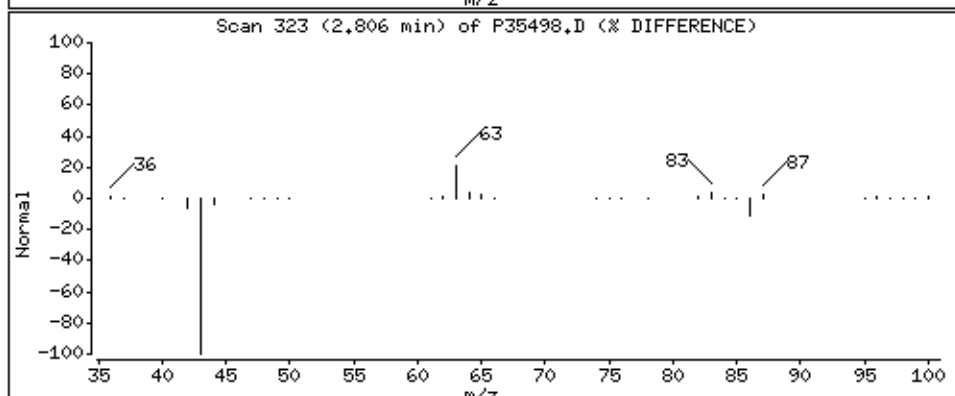
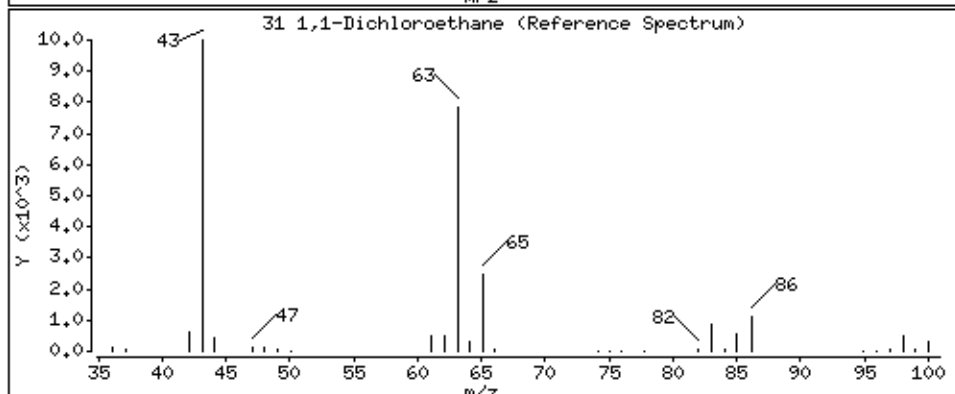
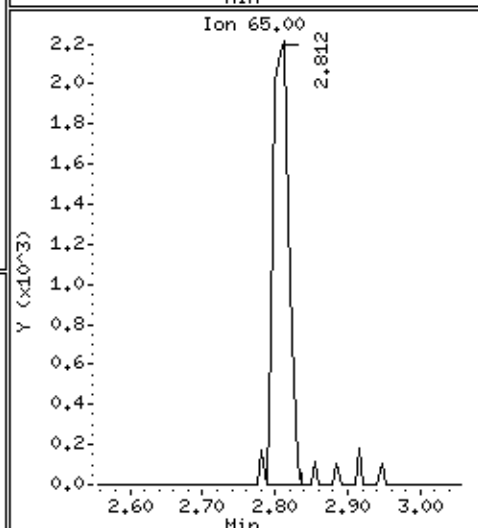
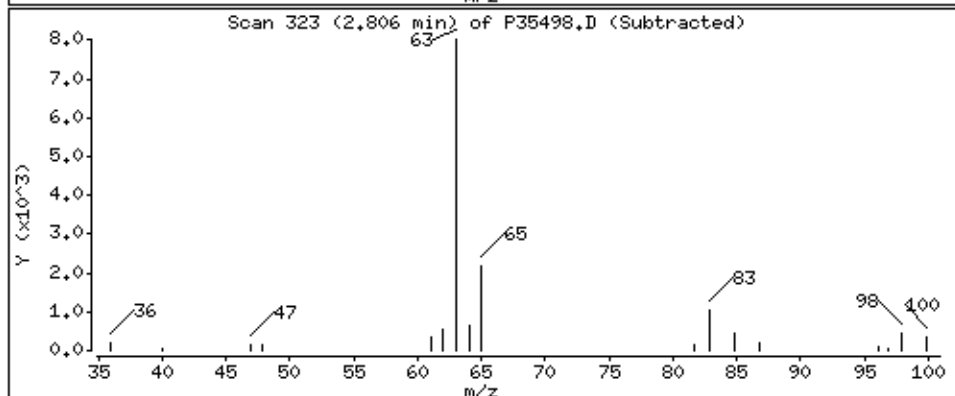
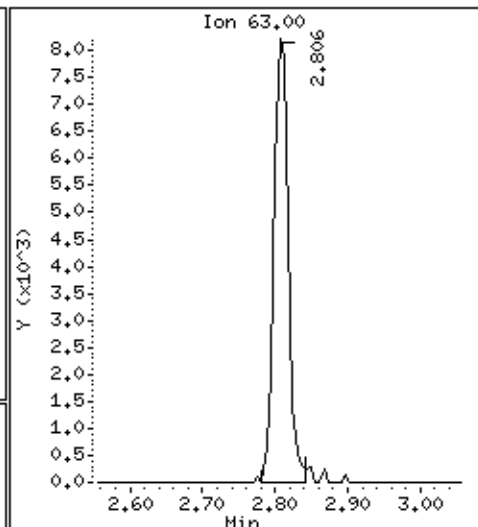
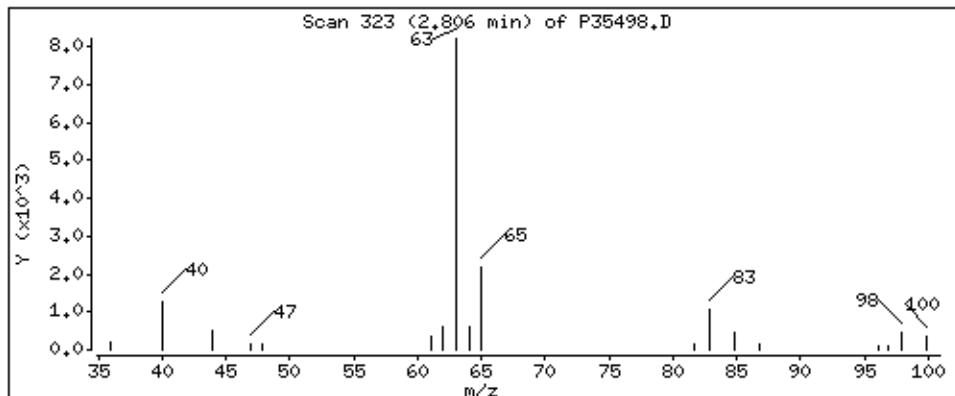
Column phase: RTX-624

Column diameter: 0,18

31 1,1-Dichloroethane

Concentration: 1,84 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35498.D  
Injection Date: 20-OCT-2021 10:58  
Instrument: 70msv8.i  
Lab Sample ID: 70191351003  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-16

Lab Name: Pace Analytical - New York Contract: VAILS GATE MANUFACTURING 10/15  
Date Received: 10/16/2021 10:30 Matrix: Water SDG No.: 70191351  
Date Extracted: 10/20/2021 18:32 Lab Sample ID: 70191351003  
Date Analyzed: 10/20/2021 18:32 Lab File ID: 102021.B\B10660.D  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 70MSV9 Percent Moisture:       

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane (p-Dioxane)	2.2	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10660.D  
 Report Date: 20-Oct-2021 21:16

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\102021.b\B10660.D  
 Lab Smp Id: 70191351003 Client Smp ID: MW-16  
 Inj Date : 20-OCT-2021 18:32 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : 70191351003,  
 Misc Info : 12761,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
 Meth Date : 20-Oct-2021 18:38 70msv9.i Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A  
 Processing Host: 70MSV3WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
* 45 Fluorobenzene (IS)	96	4.128	4.128	(1.000)	2387808	5.00000		
188 1,4-Dioxane	88	4.898	4.909	(1.187)	20580	2.24212	2.24	
\$ 90 4-Bromofluorobenzene (S)	95	8.174	8.180	(1.980)	682292	4.74239	4.74	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152	9.668	9.668	(2.342)	656937	4.86882	4.87	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10660.D  
Report Date: 20-Oct-2021 21:16

Pace Analytical Services, Inc.

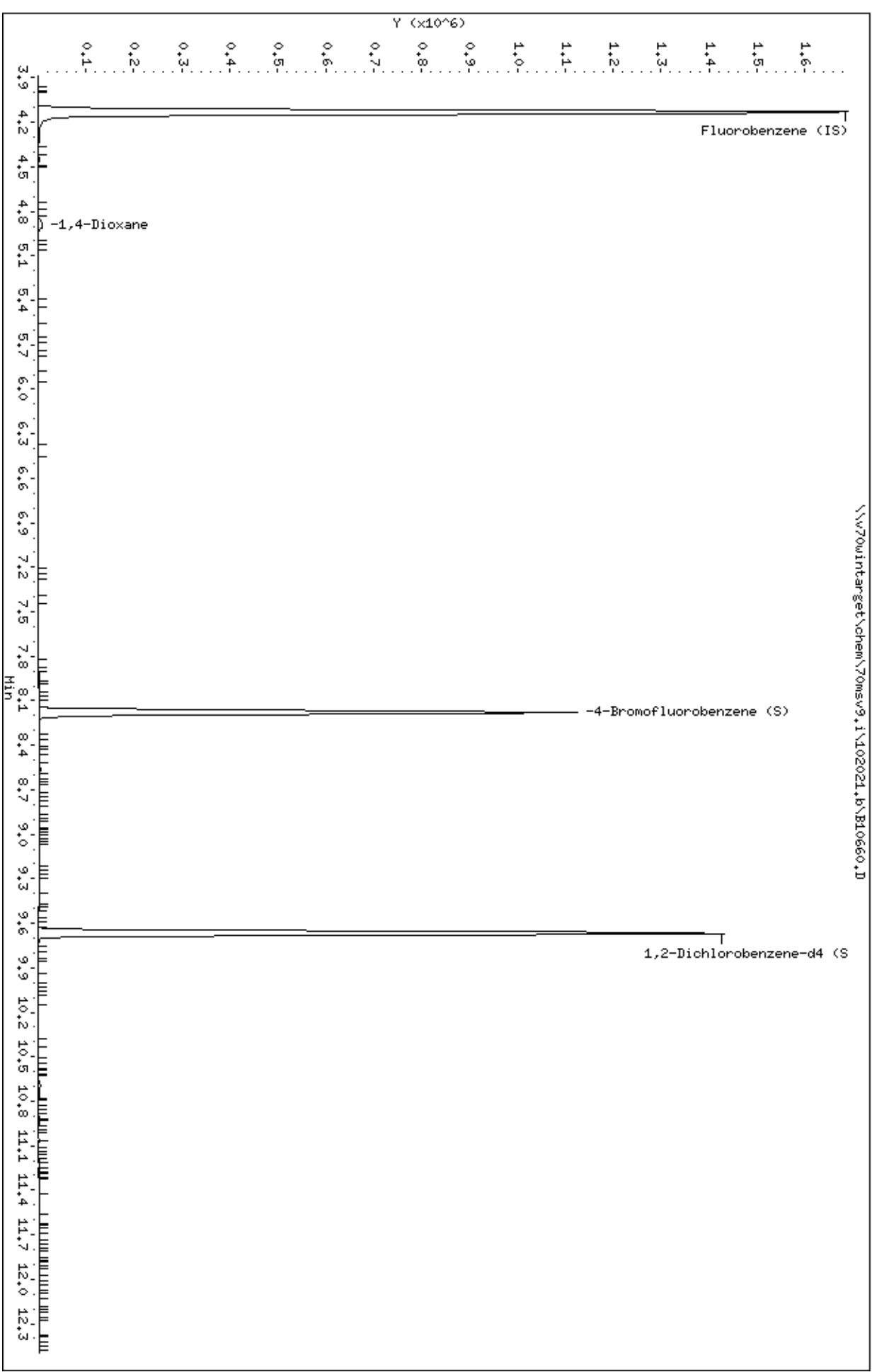
RECOVERY REPORT

Client Name: Leader Consulting S                      Client SDG: 70191351  
Sample Matrix: Liquid                                      Fraction: VOA  
Lab Smp Id: 70191351003                                  Client Smp ID: MW-16  
Level: LOW    Operator: BBL  
Data Type: MS DATA                                        SampleType: SAMPLE  
SpikeList File: lcs.spk                                    Quant Type: ISTD  
Sublist File: all.sub  
Method File: \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
Misc Info: 12761,

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 90 4-Bromofluorobenze	5.00	4.74	94.85	79-124
\$ 53 1,2-Dichlorobenzen	5.00	4.87	97.38	60-140

Data File: \\w70wintarget\chem\70msv9.1\102021.b\B10660.D  
Date: 20-OCT-2021 18:32  
Client ID: HM-16  
Sample Info: 70191351003,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18





Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10660.D

Date : 20-OCT-2021 18:32

Client ID: MW-16

Instrument: 70msv9.i

Sample Info: 70191351003,

Purge Volume: 5.0

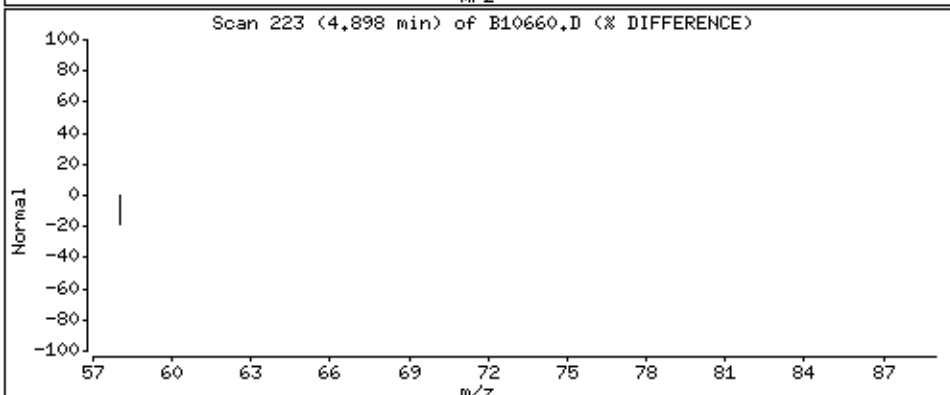
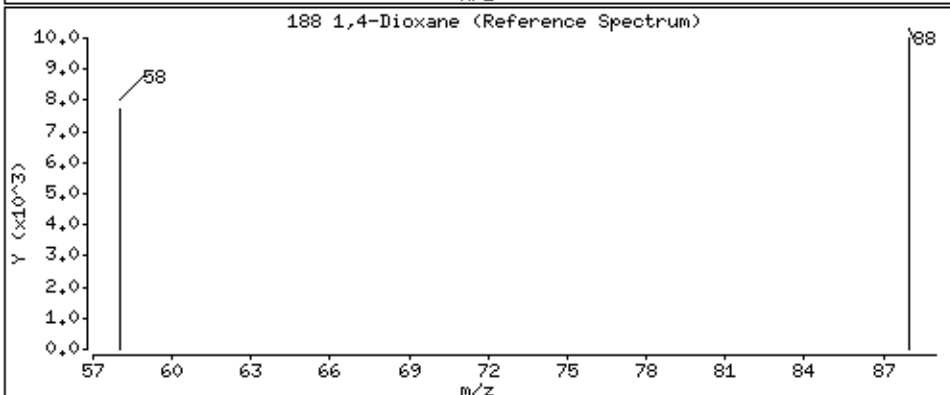
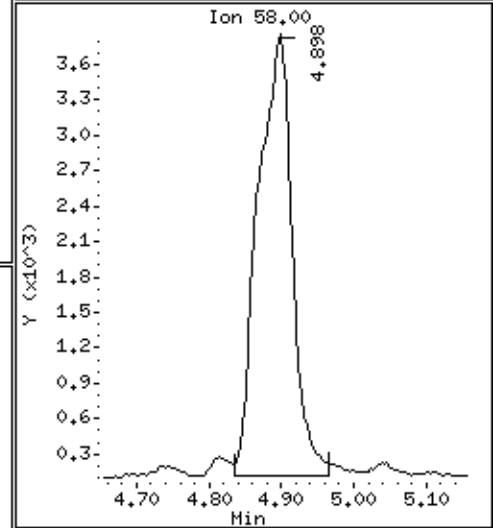
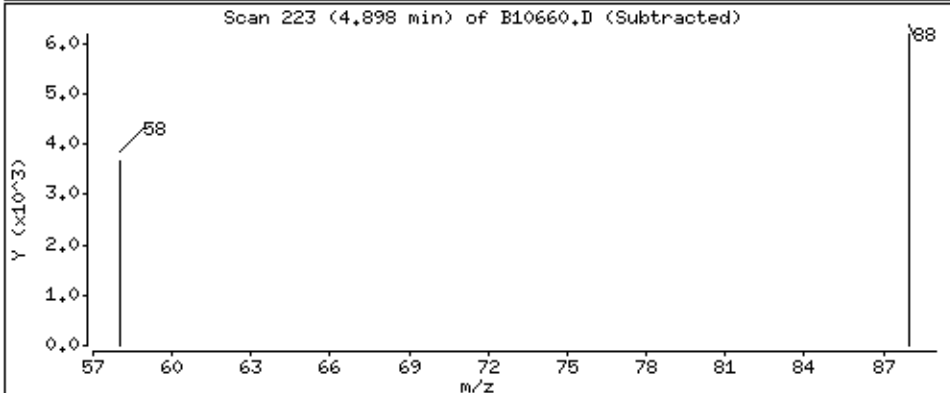
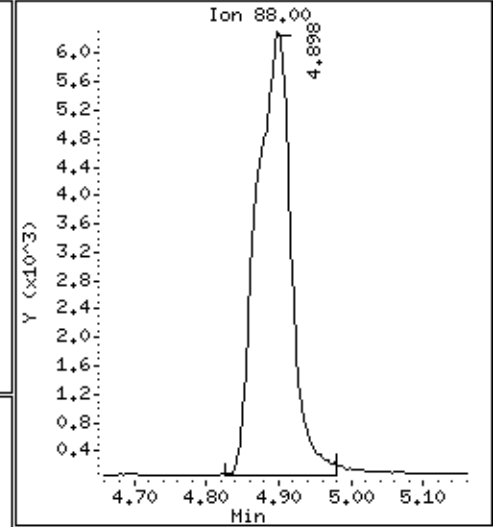
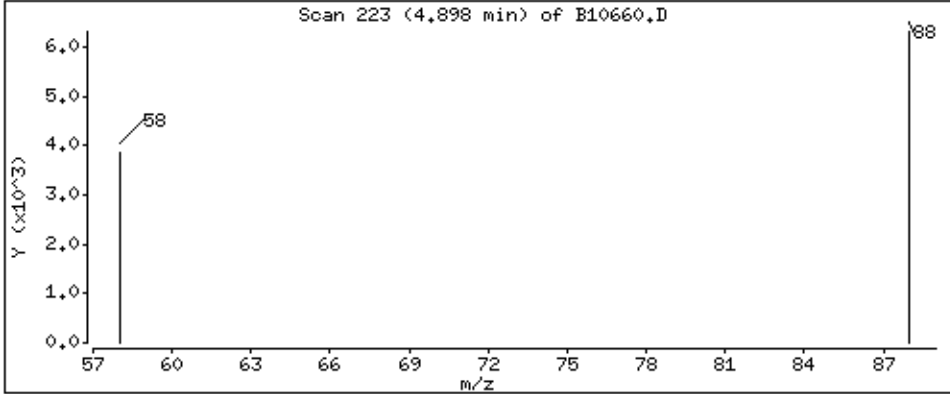
Operator: BBL

Column phase: RTX-624

Column diameter: 0,18

188 1,4-Dioxane

Concentration: 2,24 ug/L



Data File: \\v70wintarget\chem\70msv9.i\102021.b/B10660.D  
Injection Date: 20-OCT-2021 18:32  
Instrument: 70msv9.i  
Lab Sample ID: 70191351003  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 10:00  
Date Analyzed: 10/20/2021 10:00  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 70191351004  
Lab File ID: 102021.B\P35495.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<5.0	U
71-43-2	Benzene	<1.0	U
108-86-1	Bromobenzene	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<1.0	U
74-83-9	Bromomethane	<1.0	U
78-93-3	2-Butanone (MEK)	<5.0	U
104-51-8	n-Butylbenzene	<1.0	U
135-98-8	sec-Butylbenzene	<1.0	U
98-06-6	tert-Butylbenzene	<1.0	U
75-15-0	Carbon disulfide	<1.0	U
56-23-5	Carbon tetrachloride	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
75-00-3	Chloroethane	<1.0	U
67-66-3	Chloroform	<1.0	U
74-87-3	Chloromethane	<1.0	U
95-49-8	2-Chlorotoluene	<1.0	U
106-43-4	4-Chlorotoluene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane (EDB)	<1.0	U
74-95-3	Dibromomethane	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
75-71-8	Dichlorodifluoromethane	<1.0	U
75-34-3	1,1-Dichloroethane	<1.0	U
107-06-2	1,2-Dichloroethane	<1.0	U
75-35-4	1,1-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
142-28-9	1,3-Dichloropropane	<1.0	U
594-20-7	2,2-Dichloropropane	<1.0	U
563-58-6	1,1-Dichloropropene	<1.0	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U

11/11/2021 2:03

MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: Pace Analytical - New York  
 Date Received: 10/16/2021 10:30  
 Date Extracted: 10/20/2021 10:00  
 Date Analyzed: 10/20/2021 10:00  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
 Matrix: Water SDG No.: 70191351  
 Lab Sample ID: 70191351004  
 Lab File ID: 102021.B\P35495.D  
 Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
123-91-1	1,4-Dioxane (p-Dioxane)	<100	U
100-41-4	Ethylbenzene	<1.0	U
87-68-3	Hexachloro-1,3-butadiene	<1.0	U
591-78-6	2-Hexanone	<5.0	U
98-82-8	Isopropylbenzene (Cumene)	<1.0	U
99-87-6	p-Isopropyltoluene	<1.0	U
75-09-2	Methylene Chloride	<1.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	U
1634-04-4	Methyl-tert-butyl ether	<1.0	U
91-20-3	Naphthalene	<1.0	U
103-65-1	n-Propylbenzene	<1.0	U
100-42-5	Styrene	<1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
108-88-3	Toluene	<1.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
79-01-6	Trichloroethene	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
96-18-4	1,2,3-Trichloropropane	<1.0	U
95-63-6	1,2,4-Trimethylbenzene	<1.0	U
108-67-8	1,3,5-Trimethylbenzene	<1.0	U
108-05-4	Vinyl acetate	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
1330-20-7	Xylene (Total)	<3.0	U
179601-23-1	m&p-Xylene	<2.0	U
95-47-6	o-Xylene	<1.0	U

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35495.D  
 Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35495.D  
 Lab Smp Id: 70191351004 Client Smp ID: TRIP BLANK  
 Inj Date : 20-OCT-2021 10:00 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 70191351004,  
 Misc Info : 12755,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				REVIEW C		
			ON-COLUMN	FINAL					
	MASS		RT	EXP RT	REL RT	RESPONSE	( ug/L)	( ug/L)	
1 Chlorodifluoromethane	51					Compound Not Detected.			
2 Dichlorotetrafluoroethane	135					Compound Not Detected.			
3 Dichlorodifluoromethane	85					Compound Not Detected.			
4 Chloromethane	50					Compound Not Detected.			
5 Vinyl chloride	62					Compound Not Detected.			
6 1,3-Butadiene	54					Compound Not Detected.			
7 Acetaldehyde	44					Compound Not Detected.			
8 Bromomethane	94					Compound Not Detected.			
9 Chloroethane	64					Compound Not Detected.			
10 Dichlorofluoromethane	67					Compound Not Detected.			
11 Trichlorofluoromethane	101					Compound Not Detected.			
12 Ethanol	45					Compound Not Detected.			
13 Diethyl ether (Ethyl ether)	59					Compound Not Detected.			
16 1,1,2-Trichlorotrifluoroethane	101					Compound Not Detected.			
14 Acrolein	56					Compound Not Detected.			
15 1,1-Dichloroethene	96					Compound Not Detected.			
17 Acetone	43					Compound Not Detected.			
18 Iodomethane	142					Compound Not Detected.			
19 2-Propanol	45					Compound Not Detected.			
20 Carbon disulfide	76					Compound Not Detected.			
21 Allyl chloride	76					Compound Not Detected.			
22 Acetonitrile	41					Compound Not Detected.			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
23 Methyl acetate	43							
24 Methylene Chloride	84							
25 tert-Butyl Alcohol	59							
28 Methyl-tert-butyl ether	73							
27 trans-1,2-Dichloroethene	96							
26 Acrylonitrile	53							
30 n-Hexane	57							
29 Diisopropyl ether	45							
32 Vinyl acetate	43							
31 1,1-Dichloroethane	63							
33 Chloroprene	53							
34 Ethyl-tert-butyl ether	59							
36 2,2-Dichloropropane	77							
35 cis-1,2-Dichloroethene	96							
39 Ethyl acetate	61							
37 2-Butanone (MEK)	43							
41 Bromochloromethane	128							
42 Tetrahydrofuran	42							
43 Chloroform	83							
38 Propionitrile	54							
46 Cyclohexane	56							
45 1,1,1-Trichloroethane	97							
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	332507	50.0000		
48 Carbon tetrachloride	117							(D)
47 1,1-Dichloropropene	75							(D)
55 2,2,4-Trimethylpentane	57							
51 Benzene	78							
40 Methacrylonitrile	67							
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.945	3.945	(0.915)	183595	48.2270	48.2	
56 tert-Amylmethyl ether	73							
52 1,2-Dichloroethane	62							
57 n-Heptane	43							
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	572933	50.0000		
59 Trichloroethene	95							
60 Methylcyclohexane	83							
49 Isobutanol	43							
53 tert-Amyl Alcohol	59							
54 tert-Amyl ethyl ether	59							
61 1,2-Dichloropropane	63							
63 Methyl methacrylate	69							
64 1,4-Dioxane (p-Dioxane)	88							
62 Dibromomethane	93							
65 Bromodichloromethane	83							
66 2-Nitropropane	43							
67 2-Chloroethylvinyl ether	63							
68 cis-1,3-Dichloropropene	75							
69 4-Methyl-2-pentanone (MIBK)	43							(D)
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	708730	51.2416	51.2	
71 Toluene	91							
72 Methyl isothiocyanate	73							
74 trans-1,3-Dichloropropene	75							
75 Ethyl methacrylate	69							
76 1,1,2-Trichloroethane	83							
77 Tetrachloroethene	166							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76							
79 2-Hexanone	43							
73 n-Octane	43							
81 n-Butyl acetate	43							
80 Dibromochloromethane	129							
82 1,2-Dibromoethane (EDB)	107							
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.426	(1.000)	285482	50.0000		
84 Chlorobenzene	112							
86 Ethylbenzene	106							
85 1,1,1,2-Tetrachloroethane	131							
88 n-Nonane	43							
87 m&p-Xylene	106							
89 o-Xylene	106							
90 Styrene	104							
91 Bromoform	173							
92 Isopropylbenzene (Cumene)	105							
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	257529	50.7279	50.7	
94 Bromobenzene	156							
95 1,1,2,2-Tetrachloroethane	83							
98 n-Propylbenzene	91							
96 1,2,3-Trichloropropane	110							
97 trans-1,4-Dichloro-2-butene	53							
103 n-Decane	43							
99 2-Chlorotoluene	91							
100 4-Ethyltoluene	105							
101 1,3,5-Trimethylbenzene	105							
102 4-Chlorotoluene	91							
104 tert-Butylbenzene	119							
105 Pentachloroethane	167							
106 1,2,4-Trimethylbenzene	105							
107 sec-Butylbenzene	105							
109 d-Limonene	136							
110 p-Isopropyltoluene	119							
108 1,3-Dichlorobenzene	146							
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	252874	50.0000		
112 1,4-Dichlorobenzene	146							
113 1,2,3-Trimethylbenzene	105							
114 Benzyl chloride	91							
115 trans-Decalin	138							
116 1,4-Diethylbenzene	119							
117 n-Butylbenzene	91							
119 n-Undecane	43							
118 1,2-Dichlorobenzene	146							
120 cis-Decalin	138							
121 1,2,4,5-tetramethylbenzene	119							
122 1,2-Dibromo-3-chloropropane	75							
123 n-Dodecane	43							
124 1,2,4-Trichlorobenzene	180							
125 Hexachloro-1,3-butadiene	225							
126 Naphthalene	128							
127 1,2,3-Trichlorobenzene	180							

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35495.D  
Report Date: 21-Oct-2021 11:08

QC Flag Legend

D - User disabled compound identification.

Review Codes Legend

:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35495.D  
Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

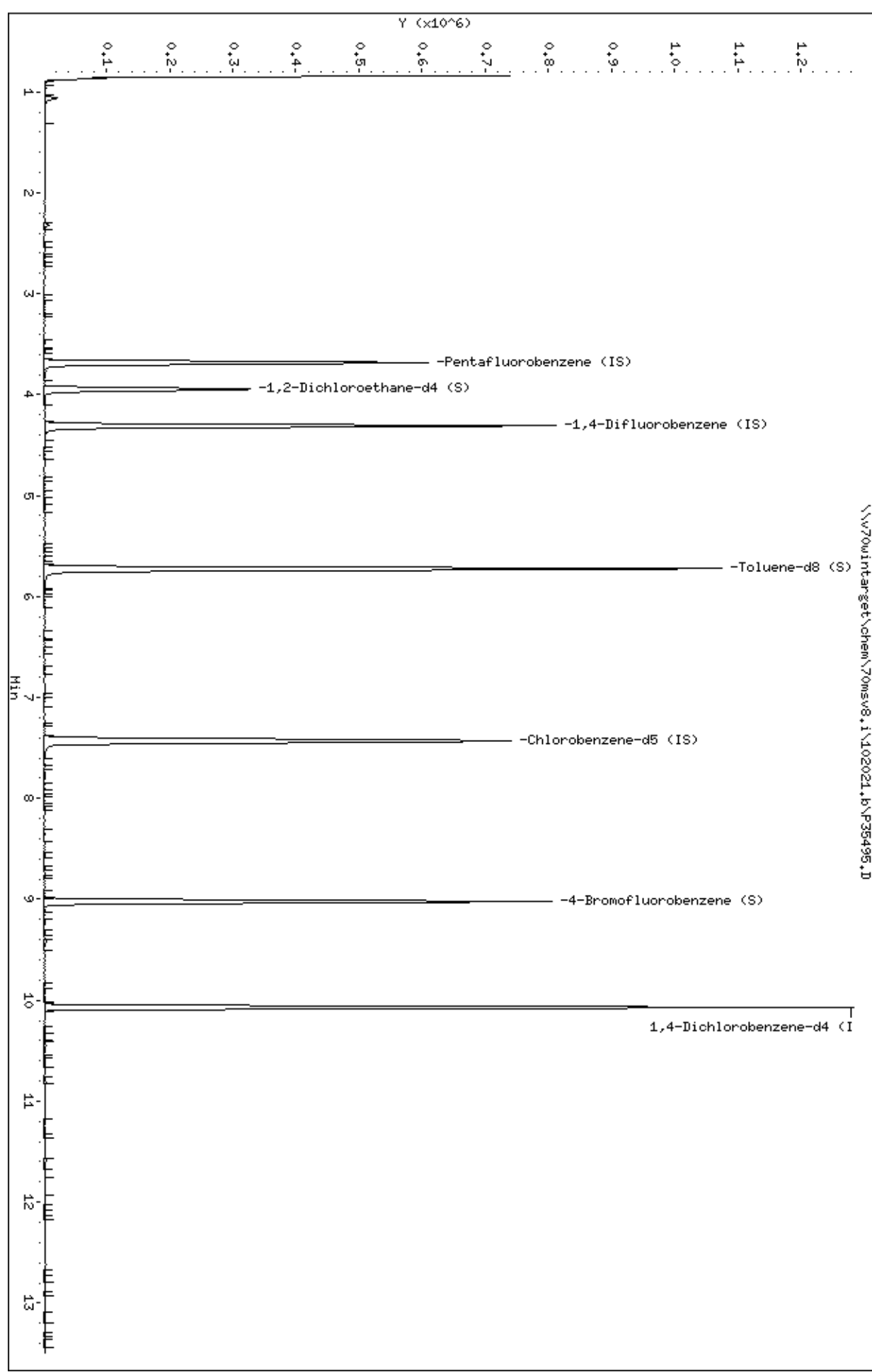
SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35495.D  
Lab Smp Id: 70191351004 Client Smp ID: TRIP BLANK  
Inj Date : 20-OCT-2021 10:00 MS Autotune Date: 14-MAY-2021 14:0  
Operator : KGG Inst ID: 70msv8.i  
Smp Info : 70191351004,  
Misc Info : 12755,  
Comment :  
Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
Als bottle: 8  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 8260.sub  
Target Version: RC10A  
Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\w70wintarget\chem\70msv8.1\102021.b\p35495.D  
Date: 20-OCT-2021 10:00  
Client ID: TRIP BLANK  
Sample Info: 70191351004,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv8.1  
Operator: KGS  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35495.D  
Injection Date: 20-OCT-2021 10:00  
Instrument: 70msv8.i  
Lab Sample ID: 70191351004  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM VI VOA-1  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70191351  
 Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

**LAB FILE ID**

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D  
 CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D  
 CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Linear			0.22869	0.19261	0.16489	0.12351
Benzene	Averaged	0.87521	0.96918	1.11141	0.95624	1.02779	1.01962
Bromobenzene	Averaged		0.59040	0.63412	0.56603	0.61720	0.59666
Bromochloromethane	Averaged		0.25189	0.20850	0.19186	0.20865	0.19311
Bromodichloromethane	Averaged		0.26989	0.34600	0.28718	0.30808	0.31868
Bromoform	Averaged		0.19084	0.22393	0.20184	0.21828	0.23803
Bromomethane	Averaged		0.17847	0.18590	0.16793	0.17503	0.17673
2-Butanone (MEK)	Averaged		0.38041	0.33713	0.28791	0.27701	0.26318
n-Butylbenzene	Averaged		2.48300	2.87007	2.48943	2.57793	2.69482
sec-Butylbenzene	Averaged		2.71112	3.15436	2.73048	2.79953	2.92593
tert-Butylbenzene	Averaged		1.72165	1.96434	1.77843	1.84017	1.90298
Carbon disulfide	Averaged		1.23913	1.40567	1.14953	1.26574	1.26485
Carbon tetrachloride	Averaged		0.25842	0.28397	0.28414	0.31423	0.31388
Chlorobenzene	Averaged		1.26586	1.45307	1.26090	1.36265	1.35373
Chloroethane	Averaged		0.38786	0.39057	0.32933	0.35717	0.33902
Chloroform	Averaged		0.74866	0.74220	0.68612	0.72596	0.72850
Chloromethane	Averaged		0.60697	0.63555	0.53772	0.60483	0.61576
2-Chlorotoluene	Averaged		2.04982	2.13341	1.86225	2.05860	1.96054
4-Chlorotoluene	Averaged		2.14587	2.34289	2.16971	2.23563	2.21520
1,2-Dibromo-3-chloropropane	Averaged		0.08900	0.07817	0.08104	0.07663	0.08136
Dibromochloromethane	Averaged		0.34394	0.42189	0.36612	0.39331	0.42567
1,2-Dibromoethane (EDB)	Averaged	0.18412	0.16893	0.22367	0.18827	0.19995	0.20510
Dibromomethane	Averaged		0.12793	0.14066	0.13238	0.13863	0.14582
1,2-Dichlorobenzene	Averaged		0.95268	1.13002	1.01076	1.05428	1.04933
1,3-Dichlorobenzene	Averaged		1.04588	1.18448	1.11514	1.15990	1.14115
1,4-Dichlorobenzene	Averaged		1.16194	1.24732	1.12247	1.16612	1.16033
Dichlorodifluoromethane	Averaged		0.53427	0.66194	0.52643	0.55044	0.58853
1,1-Dichloroethane	Averaged		0.73149	0.85502	0.74578	0.82702	0.82056
1,2-Dichloroethane	Averaged		0.49248	0.57865	0.48193	0.52890	0.53507
1,1-Dichloroethene	Averaged	0.34376	0.34764	0.40697	0.35971	0.36869	0.37029
cis-1,2-Dichloroethene	Averaged		0.39787	0.50874	0.44544	0.47641	0.48591
trans-1,2-Dichloroethene	Averaged		0.42578	0.45545	0.39175	0.41818	0.41571
1,2-Dichloropropane	Averaged		0.24720	0.28994	0.25667	0.27732	0.28623
1,3-Dichloropropane	Averaged		0.69963	0.82170	0.69365	0.75721	0.76866
2,2-Dichloropropane	Averaged		0.48418	0.53454	0.47200	0.51427	0.52155

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70191351  
 Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

**LAB FILE ID**

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D  
 CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D  
 CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,1-Dichloropropene	Averaged		0.40046	0.40187	0.35171	0.36032	0.36764
cis-1,3-Dichloropropene	Averaged	0.28523	0.33992	0.37333	0.35767	0.40140	0.40497
trans-1,3-Dichloropropene	Averaged	0.30311	0.29199	0.30037	0.28150	0.31803	0.33698
1,4-Dioxane (p-Dioxane)	Averaged			0.00170	0.00151	0.00155	0.00160
Ethylbenzene	Averaged		0.73572	0.85228	0.75693	0.75685	0.79011
Hexachloro-1,3-butadiene	Averaged		0.25194	0.30204	0.21748	0.22526	0.23704
2-Hexanone	Averaged		0.35189	0.35730	0.32124	0.30448	0.27962
Isopropylbenzene (Cumene)	Averaged		2.54532	2.82706	2.63939	2.74053	2.73699
p-Isopropyltoluene	Averaged		2.26212	2.51007	2.13818	2.27281	2.34682
Methylene Chloride	Averaged		0.46786	0.46653	0.40573	0.43136	0.42910
4-Methyl-2-pentanone (MIBK)	Averaged		0.21858	0.21571	0.20784	0.20088	0.21139
Methyl-tert-butyl ether	Averaged		1.15999	1.23330	1.07699	1.16220	1.19993
Naphthalene	Averaged		1.23817	1.18519	1.11763	1.14763	1.15664
n-Propylbenzene	Averaged		3.22758	3.71012	3.30712	3.41229	3.45299
Styrene	Averaged		1.30575	1.58295	1.40396	1.47411	1.49792
1,1,1,2-Tetrachloroethane	Averaged		0.37771	0.41883	0.39438	0.41194	0.43484
1,1,2,2-Tetrachloroethane	Averaged		0.51627	0.61831	0.56055	0.57887	0.58212
Tetrachloroethene	Averaged		0.50449	0.51175	0.50748	0.49870	0.49101
Toluene	Averaged		1.04226	1.19431	1.06029	1.14016	1.14032
1,2,3-Trichlorobenzene	Averaged		0.42555	0.40689	0.36861	0.39198	0.40411
1,2,4-Trichlorobenzene	Averaged		0.50483	0.52377	0.50095	0.50747	0.52104
1,1,1-Trichloroethane	Averaged		0.32614	0.34834	0.31743	0.33965	0.34111
1,1,2-Trichloroethane	Averaged		0.19697	0.18947	0.17747	0.18827	0.19320
Trichloroethene	Averaged		0.24613	0.28184	0.25152	0.25664	0.26104
Trichlorofluoromethane	Averaged		0.62171	0.70524	0.59645	0.66010	0.64243
1,2,3-Trichloropropane	Averaged	0.19409	0.16752	0.17077	0.15542	0.15541	0.15327
1,2,4-Trimethylbenzene	Averaged		2.04182	2.37171	2.14115	2.21651	2.24668
1,3,5-Trimethylbenzene	Averaged		1.95339	2.43048	2.11985	2.21707	2.22492
Vinyl acetate	Averaged		0.91082	0.91286	0.78946	0.87327	0.91847
Vinyl chloride	Averaged		0.58550	0.73349	0.61311	0.65045	0.65304
m&p-Xylene	Averaged	0.86701	0.93988	1.01268	0.89212	0.94831	0.95193
o-Xylene	Averaged		0.84396	0.94123	0.83801	0.89445	0.92522
4-Bromofluorobenzene (S)	Averaged	0.87874	0.89070	0.88857	0.89185	0.88796	0.89270
1,2-Dichloroethane-d4 (S)	Averaged	0.33833	0.32941	0.33242	0.33427	0.32735	0.33225
Toluene-d8 (S)	Averaged	2.42588	2.40283	2.42642	2.44355	2.40572	2.42719

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70191351  
 Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

**LAB FILE ID**

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D  
 CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D  
 CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Linear	0.11428	0.11795
Benzene	Averaged	1.01042	1.03025
Bromobenzene	Averaged	0.60725	0.61383
Bromochloromethane	Averaged	0.18364	0.17738
Bromodichloromethane	Averaged	0.32155	0.33025
Bromoform	Averaged	0.24404	0.25098
Bromomethane	Averaged	0.20922	0.23849
2-Butanone (MEK)	Averaged	0.25462	0.26289
n-Butylbenzene	Averaged	2.73997	2.80112
sec-Butylbenzene	Averaged	2.95183	3.02077
tert-Butylbenzene	Averaged	1.93200	1.95952
Carbon disulfide	Averaged	1.24144	1.22407
Carbon tetrachloride	Averaged	0.31680	0.30929
Chlorobenzene	Averaged	1.36968	1.36062
Chloroethane	Averaged	0.33248	0.31764
Chloroform	Averaged	0.72773	0.72095
Chloromethane	Averaged	0.60313	0.61144
2-Chlorotoluene	Averaged	2.03499	2.07113
4-Chlorotoluene	Averaged	2.25428	2.29784
1,2-Dibromo-3-chloropropane	Averaged	0.08256	0.08500
Dibromochloromethane	Averaged	0.42993	0.43875
1,2-Dibromoethane (EDB)	Averaged	0.20318	0.21243
Dibromomethane	Averaged	0.14376	0.14645
1,2-Dichlorobenzene	Averaged	1.07016	1.10221
1,3-Dichlorobenzene	Averaged	1.15836	1.20441
1,4-Dichlorobenzene	Averaged	1.17107	1.21215
Dichlorodifluoromethane	Averaged	0.58218	0.55176
1,1-Dichloroethane	Averaged	0.82182	0.81531
1,2-Dichloroethane	Averaged	0.53089	0.53686
1,1-Dichloroethene	Averaged	0.36293	0.36687
cis-1,2-Dichloroethene	Averaged	0.47686	0.47540
trans-1,2-Dichloroethene	Averaged	0.40698	0.41013
1,2-Dichloropropane	Averaged	0.28372	0.29031
1,3-Dichloropropane	Averaged	0.76719	0.76467
2,2-Dichloropropane	Averaged	0.54014	0.55027

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70191351  
 Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

**LAB FILE ID**

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D  
 CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D  
 CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,1-Dichloropropene	Averaged	0.35433	0.36314
cis-1,3-Dichloropropene	Averaged	0.41337	0.42971
trans-1,3-Dichloropropene	Averaged	0.34243	0.36615
1,4-Dioxane (p-Dioxane)	Averaged	0.00156	0.00165
Ethylbenzene	Averaged	0.78890	0.79716
Hexachloro-1,3-butadiene	Averaged	0.23954	0.24932
2-Hexanone	Averaged	0.27373	0.28603
Isopropylbenzene (Cumene)	Averaged	2.79209	2.83130
p-Isopropyltoluene	Averaged	2.38353	2.46490
Methylene Chloride	Averaged	0.42623	0.42454
4-Methyl-2-pentanone (MIBK)	Averaged	0.20513	0.21385
Methyl-tert-butyl ether	Averaged	1.18655	1.19680
Naphthalene	Averaged	1.15845	1.21101
n-Propylbenzene	Averaged	3.47169	3.55575
Styrene	Averaged	1.51153	1.51862
1,1,1,2-Tetrachloroethane	Averaged	0.43487	0.44592
1,1,2,2-Tetrachloroethane	Averaged	0.59152	0.61017
Tetrachloroethene	Averaged	0.48656	0.48206
Toluene	Averaged	1.12675	1.14828
1,2,3-Trichlorobenzene	Averaged	0.39723	0.41515
1,2,4-Trichlorobenzene	Averaged	0.53749	0.56222
1,1,1-Trichloroethane	Averaged	0.34358	0.35144
1,1,2-Trichloroethane	Averaged	0.19332	0.19801
Trichloroethene	Averaged	0.25637	0.26176
Trichlorofluoromethane	Averaged	0.63218	0.60496
1,2,3-Trichloropropane	Averaged	0.15412	0.15923
1,2,4-Trimethylbenzene	Averaged	2.28348	2.35248
1,3,5-Trimethylbenzene	Averaged	2.26632	2.35751
Vinyl acetate	Averaged	0.92366	0.94283
Vinyl chloride	Averaged	0.64898	0.63404
m&p-Xylene	Averaged	0.95482	0.96045
o-Xylene	Averaged	0.92157	0.91736
4-Bromofluorobenzene (S)	Averaged	0.90297	0.87965
1,2-Dichloroethane-d4 (S)	Averaged	0.33103	0.33278
Toluene-d8 (S)	Averaged	2.44928	2.39846

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70191351  
 Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

**LAB FILE ID**

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D  
 CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D  
 CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Linear		0.99836	0.01243564	0.11355	
Benzene	Averaged	6.86908			1.00002	
Bromobenzene	Averaged	3.62196			0.60364	
Bromochloromethane	Averaged	12.28526			0.20215	
Bromodichloromethane	Averaged	8.31436			0.31166	
Bromoform	Averaged	9.89898			0.22399	
Bromomethane	Averaged	13.15272			0.19025	
2-Butanone (MEK)	Averaged	15.86425			0.29474	
n-Butylbenzene	Averaged	5.70309			2.66519	
sec-Butylbenzene	Averaged	5.58222			2.89914	
tert-Butylbenzene	Averaged	5.02792			1.87130	
Carbon disulfide	Averaged	6.11889			1.25578	
Carbon tetrachloride	Averaged	7.45640			0.29725	
Chlorobenzene	Averaged	4.91045			1.34664	
Chloroethane	Averaged	8.25845			0.35058	
Chloroform	Averaged	2.75646			0.72573	
Chloromethane	Averaged	5.05948			0.60220	
2-Chlorotoluene	Averaged	4.34241			2.02439	
4-Chlorotoluene	Averaged	3.08155			2.23735	
1,2-Dibromo-3-chloropropane	Averaged	5.05951			0.08197	
Dibromochloromethane	Averaged	8.96039			0.40280	
1,2-Dibromoethane (EDB)	Averaged	8.69730			0.19821	
Dibromomethane	Averaged	5.01309			0.13938	
1,2-Dichlorobenzene	Averaged	5.55350			1.05278	
1,3-Dichlorobenzene	Averaged	4.54357			1.14419	
1,4-Dichlorobenzene	Averaged	3.43464			1.17734	
Dichlorodifluoromethane	Averaged	8.10152			0.57079	
1,1-Dichloroethane	Averaged	5.68430			0.80243	
1,2-Dichloroethane	Averaged	6.04186			0.52640	
1,1-Dichloroethene	Averaged	5.25313			0.36586	
cis-1,2-Dichloroethene	Averaged	7.62585			0.46666	
trans-1,2-Dichloroethene	Averaged	4.72808			0.41771	
1,2-Dichloropropane	Averaged	6.22079			0.27591	
1,3-Dichloropropane	Averaged	5.85986			0.75325	
2,2-Dichloropropane	Averaged	5.63135			0.51671	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.



MSV - FORM VI VOA-6  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70191351  
 Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

**LAB FILE ID**

CAL1 = 060921.B\31433.D CAL2 = 060921.B\31434.D CAL3 = 060921.B\31435.D  
 CAL4 = 060921.B\31436.D CAL5 = 060921.B\31437.D CAL6 = 060921.B\31438.D  
 CAL7 = 060921.B\31439.D CAL8 = 060921.B\31440.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,1-Dichloropropene	Averaged	5.66707			0.37135	
cis-1,3-Dichloropropene	Averaged	12.58534			0.37570	
trans-1,3-Dichloropropene	Averaged	9.07585			0.31757	
1,4-Dioxane (p-Dioxane)	Averaged	4.34957			0.00159	
Ethylbenzene	Averaged	4.86107			0.78256	
Hexachloro-1,3-butadiene	Averaged	11.19292			0.24609	
2-Hexanone	Averaged	10.96443			0.31061	
Isopropylbenzene (Cumene)	Averaged	3.84161			2.73038	
p-Isopropyltoluene	Averaged	5.45594			2.33978	
Methylene Chloride	Averaged	5.26401			0.43591	
4-Methyl-2-pentanone (MIBK)	Averaged	2.96080			0.21048	
Methyl-tert-butyl ether	Averaged	4.20461			1.17368	
Naphthalene	Averaged	3.48336			1.17353	
n-Propylbenzene	Averaged	4.59473			3.44822	
Styrene	Averaged	6.14343			1.47069	
1,1,1,2-Tetrachloroethane	Averaged	5.84097			0.41693	
1,1,2,2-Tetrachloroethane	Averaged	5.87374			0.57969	
Tetrachloroethene	Averaged	2.25227			0.49744	
Toluene	Averaged	4.71323			1.12177	
1,2,3-Trichlorobenzene	Averaged	4.53849			0.40136	
1,2,4-Trichlorobenzene	Averaged	4.14026			0.52254	
1,1,1-Trichloroethane	Averaged	3.60981			0.33824	
1,1,2-Trichloroethane	Averaged	3.62763			0.19096	
Trichloroethene	Averaged	4.35893			0.25933	
Trichlorofluoromethane	Averaged	5.77889			0.63758	
1,2,3-Trichloropropane	Averaged	8.46865			0.16373	
1,2,4-Trimethylbenzene	Averaged	5.20963			2.23626	
1,3,5-Trimethylbenzene	Averaged	7.02230			2.22422	
Vinyl acetate	Averaged	5.73384			0.89591	
Vinyl chloride	Averaged	7.10360			0.64551	
m&p-Xylene	Averaged	4.70945			0.94090	
o-Xylene	Averaged	4.56506			0.89740	
4-Bromofluorobenzene (S)	Averaged	0.86466			0.88914	
1,2-Dichloroethane-d4 (S)	Averaged	0.98463			0.33223	
Toluene-d8 (S)	Averaged	0.77310			2.42242	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-1  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV9 GC Column: FULL SDG No.: 70191351  
 Calibration Date(s): 09/14/2021 09/14/2021 Calibration Time(s): 18:04 20:43

**LAB FILE ID**

CAL1 = 091421.B\B10401.D CAL2 = 091421.B\B10402.D CAL3 = 091421.B\B10403.D  
 CAL4 = 091421.B\B10404.D CAL5 = 091421.B\B10405.D CAL6 = 091421.B\B10406.D  
 CAL7 = 091421.B\B10407.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,4-Dioxane (p-Dioxane)	Averaged	0.02567	0.02213	0.01791	0.01653	0.01628	0.01851
4-Bromofluorobenzene (S)	Averaged	0.27656	0.33466	0.32770	0.31710	0.31741	0.26535
1,2-Dichlorobenzene-d4 (S)	Averaged	0.26945	0.27927	0.28196	0.28135	0.26986	0.28598

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

11/11/2021 2:03

MSV - FORM VI VOA-2  
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV9 GC Column: FULL SDG No.: 70191351  
 Calibration Date(s): 09/14/2021 09/14/2021 Calibration Time(s): 18:04 20:43

**LAB FILE ID**

CAL1 = 091421.B\B10401.D CAL2 = 091421.B\B10402.D CAL3 = 091421.B\B10403.D  
 CAL4 = 091421.B\B10404.D CAL5 = 091421.B\B10405.D CAL6 = 091421.B\B10406.D  
 CAL7 = 091421.B\B10407.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
1,4-Dioxane (p-Dioxane)	Averaged	0.01752	17.90308			0.01922	
4-Bromofluorobenzene (S)	Averaged	0.27006	9.77160			0.30126	
1,2-Dichlorobenzene-d4 (S)	Averaged	0.30986	4.79902			0.28253	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31433.D  
 Lab Smp Id: CAL1 Client Smp ID: CAL1  
 Inj Date : 09-JUN-2021 16:08 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : call, 113064:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\060921.b\060921\_8260W.m  
 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:08 Cal File: P31433.D  
 Als bottle: 11 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS				REVIEW	C		
			CAL-AMT	ON-COL						
	MASS		RT	EXP RT	REL RT	RESPONSE	( ug/L)	( ug/L)		
1 Chlorodifluoromethane	51									(D)
2 Dichlorotetrafluoroethane	135									(D)
3 Dichlorodifluoromethane	85									(D)
4 Chloromethane	50									(D)
5 Vinyl chloride	62									(D)
6 1,3-Butadiene	54									(D)
7 Acetaldehyde	44									(D)
8 Bromomethane	94									(D)
9 Chloroethane	64									(D)
10 Dichlorofluoromethane	67									(D)
11 Trichlorofluoromethane	101									(D)
12 Ethanol	45									(D)
13 Diethyl ether (Ethyl ether)	59									(D)
16 1,1,2-Trichlorotrifluoroethane	101									(D)
14 Acrolein	56									(D)
15 1,1-Dichloroethene	96		1.946	1.952	(0.528)	979	0.40000	0.376		
17 Acetone	43									(D)
18 Iodomethane	142									(D)
19 2-Propanol	45									(D)
20 Carbon disulfide	76									(D)
21 Allyl chloride	76									(D)
22 Acetonitrile	41									(D)
23 Methyl acetate	43									(D)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
24 Methylene Chloride	84				Compound Not Detected.			(D)
25 tert-Butyl Alcohol	59				Compound Not Detected.			(D)
28 Methyl-tert-butyl ether	73				Compound Not Detected.			(D)
27 trans-1,2-Dichloroethene	96				Compound Not Detected.			(D)
26 Acrylonitrile	53				Compound Not Detected.			(D)
30 n-Hexane	57				Compound Not Detected.			(D)
29 Diisopropyl ether	45				Compound Not Detected.			(D)
32 Vinyl acetate	43				Compound Not Detected.			(D)
31 1,1-Dichloroethane	63				Compound Not Detected.			(D)
33 Chloroprene	53				Compound Not Detected.			(D)
34 Ethyl-tert-butyl ether	59				Compound Not Detected.			(D)
36 2,2-Dichloropropane	77				Compound Not Detected.			(D)
35 cis-1,2-Dichloroethene	96				Compound Not Detected.			(D)
39 Ethyl acetate	61				Compound Not Detected.			(D)
37 2-Butanone (MEK)	43				Compound Not Detected.			(D)
41 Bromochloromethane	128				Compound Not Detected.			(D)
42 Tetrahydrofuran	42				Compound Not Detected.			(D)
43 Chloroform	83				Compound Not Detected.			(D)
38 Propionitrile	54				Compound Not Detected.			(D)
46 Cyclohexane	56				Compound Not Detected.			(D)
45 1,1,1-Trichloroethane	97				Compound Not Detected.			(D)
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	355993	50.0000		
48 Carbon tetrachloride	117				Compound Not Detected.			(D)
47 1,1-Dichloropropene	75				Compound Not Detected.			(D)
55 2,2,4-Trimethylpentane	57				Compound Not Detected.			(D)
51 Benzene	78	3.927	3.927	(0.911)	4259	0.40000	0.350	
40 Methacrylonitrile	67				Compound Not Detected.			(D)
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.946	3.951	(0.915)	205799	50.0000	50.9	
56 tert-Amylmethyl ether	73				Compound Not Detected.			(D)
52 1,2-Dichloroethane	62	4.013	4.019	(1.089)	1442	0.40000	0.385 (Q)	
57 n-Heptane	43				Compound Not Detected.			(D)
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	608284	50.0000		
59 Trichloroethene	95				Compound Not Detected.			(D)
60 Methylcyclohexane	83				Compound Not Detected.			(D)
49 Isobutanol	43				Compound Not Detected.			(D)
53 tert-Amyl Alcohol	59				Compound Not Detected.			(D)
54 tert-Amyl ethyl ether	59				Compound Not Detected.			(D)
61 1,2-Dichloropropane	63				Compound Not Detected.			(D)
63 Methyl methacrylate	69				Compound Not Detected.			(D)
64 1,4-Dioxane (p-Dioxane)	88				Compound Not Detected.			(D)
62 Dibromomethane	93				Compound Not Detected.			(D)
65 Bromodichloromethane	83				Compound Not Detected.			(D)
66 2-Nitropropane	43				Compound Not Detected.			(D)
67 2-Chloroethylvinyl ether	63				Compound Not Detected.			(D)
68 cis-1,3-Dichloropropene	75	5.506	5.512	(1.277)	1388	0.40000	0.304	
69 4-Methyl-2-pentanone (MIBK)	43				Compound Not Detected.			(D)
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	748112	50.0000	50.1	
71 Toluene	91				Compound Not Detected.			(D)
72 Methyl isothiocyanate	73				Compound Not Detected.			(D)
74 trans-1,3-Dichloropropene	75	6.159	6.146	(1.428)	1475	0.40000	0.382 (QM)	LT
75 Ethyl methacrylate	69				Compound Not Detected.			(D)
76 1,1,2-Trichloroethane	83				Compound Not Detected.			(D)
77 Tetrachloroethene	166				Compound Not Detected.			(D)
78 1,3-Dichloropropane	76				Compound Not Detected.			(D)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	Compound Not Detected.						
73 n-Octane	43	Compound Not Detected.						(D)
81 n-Butyl acetate	43	Compound Not Detected.						
80 Dibromochloromethane	129	Compound Not Detected.						
82 1,2-Dibromoethane (EDB)	107	6.878	6.884	(1.595)	896	0.40000	0.372	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.432	(1.000)	308388	50.0000		
84 Chlorobenzene	112	Compound Not Detected.						(D)
86 Ethylbenzene	106	Compound Not Detected.						(D)
85 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						(D)
88 n-Nonane	43	Compound Not Detected.						(D)
87 m&p-Xylene	106	7.786	7.780	(1.048)	4278	0.80000	0.737	
89 o-Xylene	106	Compound Not Detected.						(D)
90 Styrene	104	Compound Not Detected.						(D)
91 Bromoform	173	Compound Not Detected.						(D)
92 Isopropylbenzene (Cumene)	105	Compound Not Detected.						(D)
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	270992	50.0000	49.4	
94 Bromobenzene	156	Compound Not Detected.						(D)
95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
98 n-Propylbenzene	91	Compound Not Detected.						(D)
96 1,2,3-Trichloropropane	110	9.274	9.280	(0.921)	414	0.40000	0.474 (QH)	
97 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						(D)
103 n-Decane	43	Compound Not Detected.						(D)
99 2-Chlorotoluene	91	Compound Not Detected.						(D)
100 4-Ethyltoluene	105	Compound Not Detected.						(D)
101 1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
102 4-Chlorotoluene	91	Compound Not Detected.						(D)
104 tert-Butylbenzene	119	Compound Not Detected.						(D)
105 Pentachloroethane	167	Compound Not Detected.						(D)
106 1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
107 sec-Butylbenzene	105	Compound Not Detected.						(D)
109 d-Limonene	136	Compound Not Detected.						(D)
110 p-Isopropyltoluene	119	Compound Not Detected.						(D)
108 1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	266633	50.0000		
112 1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
113 1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
114 Benzyl chloride	91	Compound Not Detected.						(D)
115 trans-Decalin	138	Compound Not Detected.						(D)
116 1,4-Diethylbenzene	119	Compound Not Detected.						(D)
117 n-Butylbenzene	91	Compound Not Detected.						(D)
119 n-Undecane	43	Compound Not Detected.						(D)
118 1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
120 cis-Decalin	138	Compound Not Detected.						(D)
121 1,2,4,5-tetramethylbenzene	119	Compound Not Detected.						(D)
122 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
123 n-Dodecane	43	Compound Not Detected.						(D)
124 1,2,4-Trichlorobenzene	180	Compound Not Detected.						(D)
125 Hexachloro-1,3-butadiene	225	Compound Not Detected.						(D)
126 Naphthalene	128	Compound Not Detected.						(D)
127 1,2,3-Trichlorobenzene	180	Compound Not Detected.						(D)

Data File: \\v70wintarget\chem\70msv8.i\060921.b\P31433.D  
Report Date: 09-Jun-2021 21:21

#### QC Flag Legend

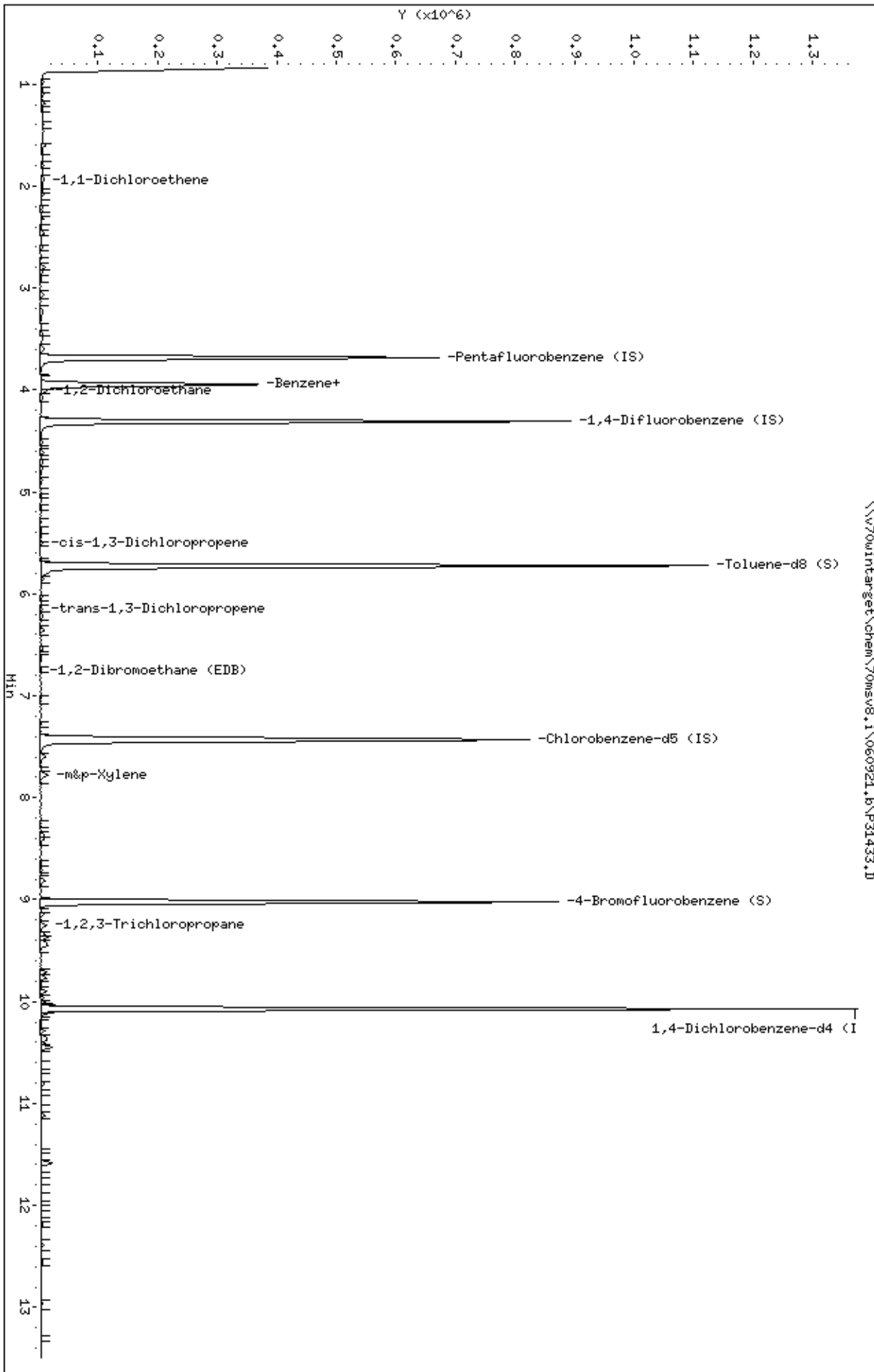
Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.  
D - User disabled compound identification.

#### Review Codes Legend

:  
LT: Indicates that the peak in question was inappropriately  
integrated to an area less than what it should be (e.g., Peak  
area was cut).

Data File: \\w70wintarget\chem\70msv8.1\060921.b\p31433.D  
Date : 09-JUN-2021 16:08  
Client ID: CALL  
Sample Info: CALL, 113064;1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv8.1  
Operator: BBL  
Column diameter: 0.18





Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31433.D

Injection Date: 09-JUN-2021 16:08

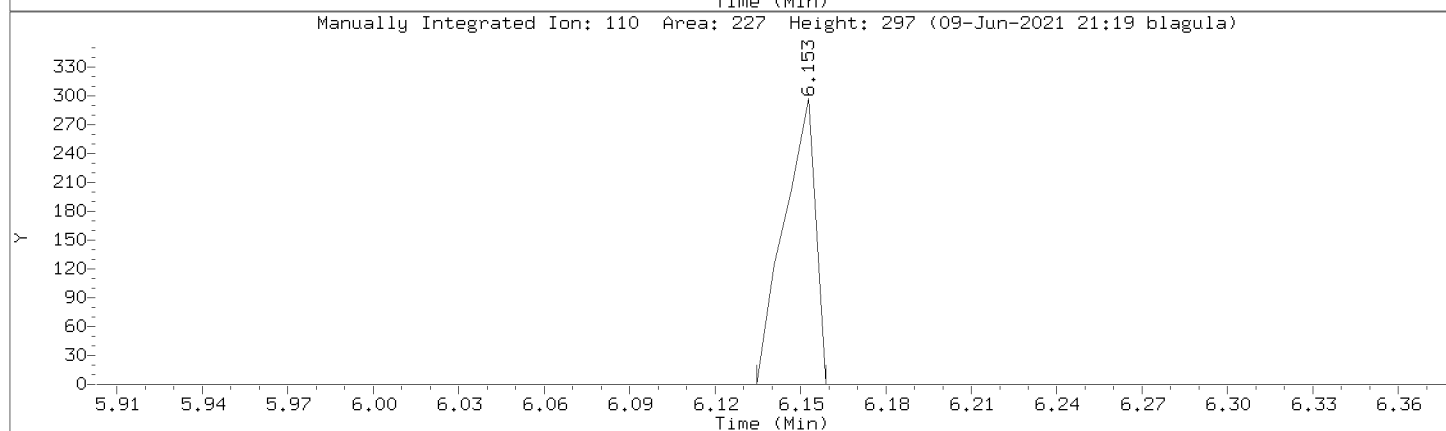
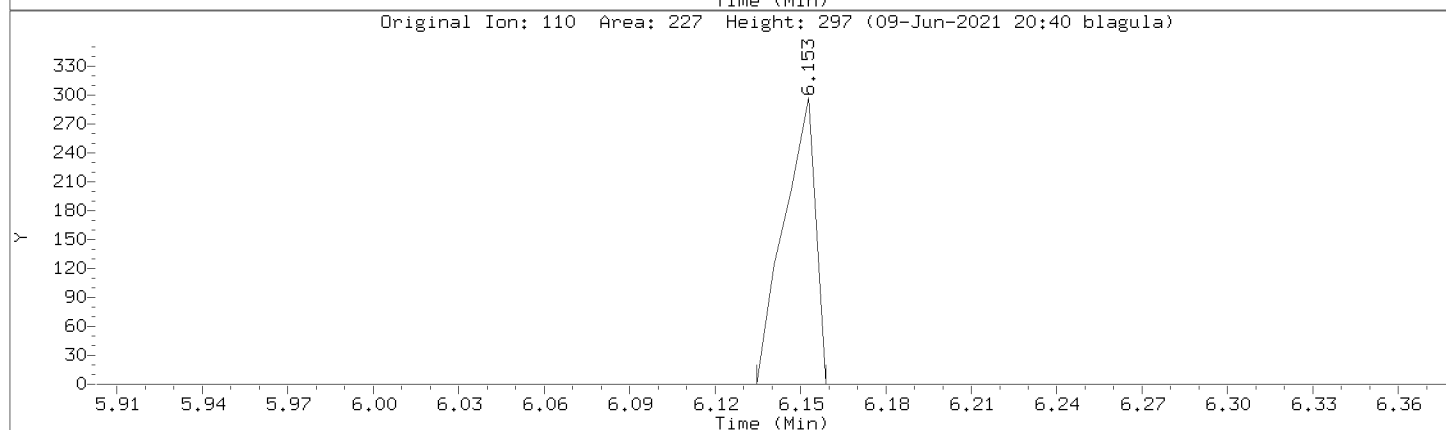
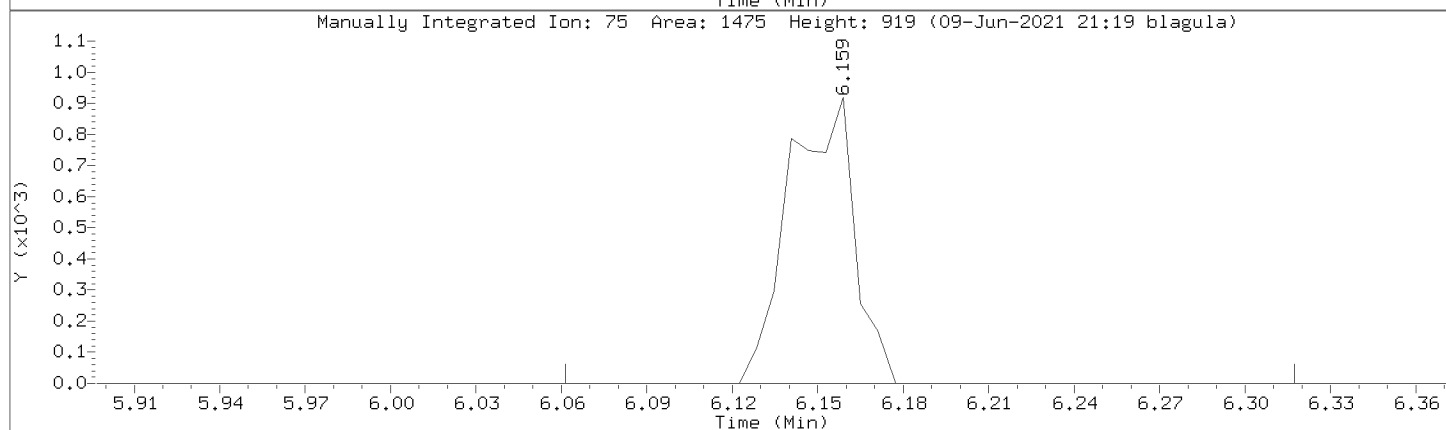
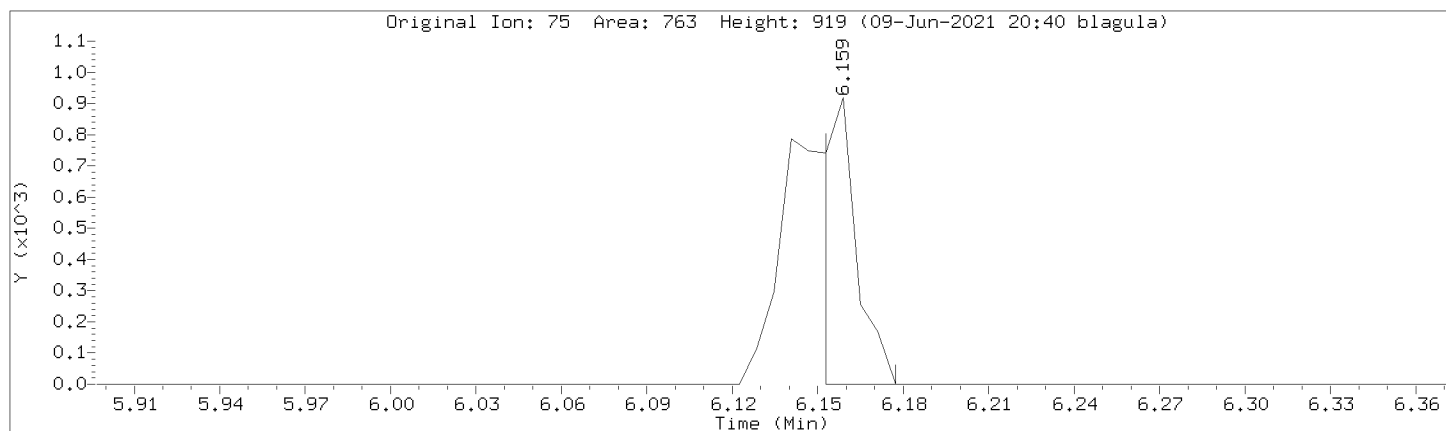
Instrument: 70msv8.i

Lab Sample ID: CAL1

Compound: trans-1,3-Dichloropropene

Review Code: LT

CAS Number: 10061-02-6



Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31434.D  
 Lab Smp Id: CAL2 Client Smp ID: CAL2  
 Inj Date : 09-JUN-2021 16:28 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : cal2, 113065:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\060921.b\060921\_8260W.m  
 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:28 Cal File: P31434.D  
 Als bottle: 12 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					REVIEW C		
			MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)	ON-COL ( ug/L)
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	3436	1.00000	0.909 (Q)		
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	1796	1.00000	0.928 (Q)		
3 Dichlorodifluoromethane	85		0.971	0.970	(0.264)	3733	1.00000	0.936 (Q)		
4 Chloromethane	50		1.105	1.104	(0.300)	4241	1.00000	1.01		
5 Vinyl chloride	62		1.172	1.172	(0.318)	4091	1.00000	0.907		
6 1,3-Butadiene	54		1.190	1.190	(0.323)	3493	1.00000	1.01		
7 Acetaldehyde	44		Compound Not Detected.							(D)
8 Bromomethane	94		1.391	1.391	(0.378)	1247	1.00000	0.938		
9 Chloroethane	64		1.458	1.464	(0.396)	2710	1.00000	1.11		
10 Dichlorofluoromethane	67		1.605	1.604	(0.436)	5583	1.00000	1.04		
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	4344	1.00000	0.975		
12 Ethanol	45		Compound Not Detected.							(D)
13 Diethyl ether (Ethyl ether)	59		1.800	1.799	(0.489)	2305	1.00000	0.890 (Q)		
16 1,1,2-Trichlorotrifluoroethane	101		1.928	1.927	(0.523)	2795	1.00000	0.945		
14 Acrolein	56		1.940	1.934	(0.527)	461	1.00000	1.38 (Q)		
15 1,1-Dichloroethene	96		1.946	1.952	(0.528)	2429	1.00000	0.950		
17 Acetone	43		Compound Not Detected.							(D)
18 Iodomethane	142		2.062	2.068	(0.560)	361	1.00000	5.14		
19 2-Propanol	45		2.123	2.129	(0.576)	2370	25.00000	25.4 (QM)	LT	
20 Carbon disulfide	76		2.086	2.086	(0.566)	8658	1.00000	0.987		
21 Allyl chloride	76		2.214	2.214	(0.601)	1639	1.00000	0.918 (Q)		
22 Acetonitrile	41		2.275	2.281	(0.618)	2060	5.00000	6.10 (Q)		
23 Methyl acetate	43		2.239	2.238	(0.608)	4532	1.00000	1.09 (Q)		

Compounds	QUANT	SIG						AMOUNTS		REVIEW C
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)	
24 Methylene Chloride	84		2.318	2.318	(0.629)	3269	1.00000	1.07		
25 tert-Butyl Alcohol	59		2.409	2.403	(0.654)	877	5.00000	5.77 (M)	LT	
28 Methyl-tert-butyl ether	73		2.458	2.458	(0.667)	8105	1.00000	0.988		
27 trans-1,2-Dichloroethene	96		2.470	2.470	(0.671)	2975	1.00000	1.02		
26 Acrylonitrile	53		2.543	2.543	(0.691)	857	1.00000	0.920		
30 n-Hexane	57		2.604	2.604	(0.707)	5078	1.00000	0.989		
29 Diisopropyl ether	45		2.793	2.799	(0.758)	9175	1.00000	0.872		
32 Vinyl acetate	43		2.836	2.836	(0.770)	6364	1.00000	1.02 (QH)		
31 1,1-Dichloroethane	63		2.806	2.805	(0.762)	5111	1.00000	0.912		
33 Chloroprene	53		2.848	2.842	(0.773)	3604	1.00000	0.865 (Q)		
34 Ethyl-tert-butyl ether	59		3.068	3.067	(0.833)	8050	1.00000	0.865		
36 2,2-Dichloropropane	77		3.226	3.226	(0.876)	3383	1.00000	0.937 (Q)		
35 cis-1,2-Dichloroethene	96		3.257	3.256	(0.884)	2780	1.00000	0.852 (Q)		
39 Ethyl acetate	61		3.257	3.256	(0.884)	5245	1.00000	1.04 (QM)	NI	
37 2-Butanone (MEK)	43		3.287	3.299	(0.892)	2658	1.00000	1.29 (Q)		
41 Bromochloromethane	128		3.446	3.452	(0.935)	1760	1.00000	1.25 (Q)		
42 Tetrahydrofuran	42		3.482	3.464	(0.945)	1133	1.00000	1.25 (QM)		
43 Chloroform	83		3.501	3.506	(0.950)	5231	1.00000	1.03		
38 Propionitrile	54		3.409	3.403	(0.926)	425	1.00000	1.18 (QM)	LT	
46 Cyclohexane	56		3.592	3.592	(0.975)	6698	1.00000	0.991		
45 1,1,1-Trichloroethane	97		3.616	3.616	(0.839)	3954	1.00000	0.964 (Q)		
* 44 Pentafluorobenzene (IS)	168		3.683	3.683	(1.000)	349357	50.0000			
48 Carbon tetrachloride	117		3.714	3.714	(0.861)	3133	1.00000	0.869 (QM)	GT	
47 1,1-Dichloropropene	75		3.751	3.756	(0.870)	4855	1.00000	1.08		
55 2,2,4-Trimethylpentane	57		3.903	3.909	(1.060)	8129	1.00000	0.916 (Q)		
51 Benzene	78		3.921	3.927	(0.909)	11750	1.00000	0.969		
40 Methacrylonitrile	67		3.482	3.488	(0.945)	1025	1.00000	0.898 (Q)		
\$ 50 1,2-Dichloroethane-d4 (S)	65		3.946	3.951	(0.915)	199684	50.0000	49.6		
56 tert-Amylmethyl ether	73		4.000	4.006	(1.086)	6702	1.00000	0.845		
52 1,2-Dichloroethane	62		4.019	4.019	(1.091)	3441	1.00000	0.936 (Q)		
57 n-Heptane	43		4.086	4.079	(1.109)	5596	1.00000	1.10		
* 58 1,4-Difluorobenzene (IS)	114		4.311	4.311	(1.000)	606180	50.0000			
59 Trichloroethene	95		4.500	4.506	(1.044)	2984	1.00000	0.949		
60 Methylcyclohexane	83		4.610	4.610	(1.069)	5840	1.00000	0.940		
49 Isobutanol	43		3.909	3.903	(1.061)	2155	5.00000	5.40 (Q)		
53 tert-Amyl Alcohol	59		Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59		4.714	4.714	(1.280)	6063	1.00000	0.871		
61 1,2-Dichloropropane	63		4.781	4.774	(1.109)	2997	1.00000	0.896 (QM)	NI	
63 Methyl methacrylate	69		4.878	4.878	(1.131)	1610	1.00000	0.842 (Q)		
64 1,4-Dioxane (p-Dioxane)	88		Compound Not Detected.							(D)
62 Dibromomethane	93		4.891	4.884	(1.134)	1551	1.00000	0.918		
65 Bromodichloromethane	83		5.037	5.037	(1.168)	3272	1.00000	0.866 (Q)		
66 2-Nitropropane	43		5.378	5.378	(1.247)	1774	1.00000	1.19 (Q)		
67 2-Chloroethylvinyl ether	63		5.378	5.378	(1.247)	1450	1.00000	1.08 (Q)		
68 cis-1,3-Dichloropropene	75		5.506	5.512	(1.277)	4121	1.00000	0.905		
69 4-Methyl-2-pentanone (MIBK)	43		5.683	5.683	(1.318)	2650	1.00000	1.04 (Q)		
\$ 70 Toluene-d8 (S)	98		5.726	5.726	(0.770)	725865	50.0000	49.6		
71 Toluene	91		5.799	5.799	(1.345)	12636	1.00000	0.929		
72 Methyl isothiocyanate	73		6.031	6.030	(1.399)	3504	2.50000	2.05 (Q)		
74 trans-1,3-Dichloropropene	75		6.146	6.146	(1.426)	3540	1.00000	0.919 (Q)		
75 Ethyl methacrylate	69		6.201	6.201	(1.438)	3270	1.00000	0.929		
76 1,1,2-Trichloroethane	83		6.348	6.347	(1.472)	2388	1.00000	1.03 (Q)		
77 Tetrachloroethene	166		6.360	6.360	(0.856)	3048	1.00000	1.01		
78 1,3-Dichloropropane	76		6.537	6.542	(0.879)	4227	1.00000	0.929		

Compounds	QUANT SIG		AMOUNTS					REVIEW C
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	6.634	6.634	(0.893)	2126	1.00000	1.13 (Q)	
73 n-Octane	43	5.860	5.860	(1.359)	5066	1.00000	1.12 (Q)	
81 n-Butyl acetate	43	6.750	6.756	(1.566)	787	1.00000	1.01 (QM)	NI
80 Dibromochloromethane	129	6.750	6.750	(0.908)	2078	1.00000	0.854 (Q)	
82 1,2-Dibromoethane (EDB)	107	6.884	6.884	(1.597)	2048	1.00000	0.852	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.432	(1.000)	302087	50.00000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	7648	1.00000	0.940	
86 Ethylbenzene	106	7.603	7.603	(1.023)	4445	1.00000	0.940	
85 1,1,1,2-Tetrachloroethane	131	7.616	7.609	(1.025)	2282	1.00000	0.906 (Q)	
88 n-Nonane	43	7.762	7.768	(1.044)	3676	1.00000	1.15 (T)	
87 m&p-Xylene	106	7.780	7.780	(1.047)	11357	2.00000	2.00	
89 o-Xylene	106	8.365	8.365	(1.125)	5099	1.00000	0.940	
90 Styrene	104	8.414	8.408	(1.132)	7889	1.00000	0.888	
91 Bromoform	173	8.652	8.652	(1.164)	1153	1.00000	0.852 (Q)	
92 Isopropylbenzene (Cumene)	105	8.817	8.816	(0.875)	13356	1.00000	0.932	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	269070	50.00000	50.1	
94 Bromobenzene	156	9.146	9.146	(0.908)	3098	1.00000	0.978	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	2709	1.00000	0.890 (Q)	
98 n-Propylbenzene	91	9.249	9.255	(0.918)	16936	1.00000	0.936	
96 1,2,3-Trichloropropane	110	9.274	9.280	(0.921)	879	1.00000	1.02 (Q)	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	487	1.00000	0.784 (Q)	
103 n-Decane	43	9.420	9.420	(1.267)	2842	1.00000	1.15 (TQ)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	10756	1.00000	1.01	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	14361	1.00000	0.958	
101 1,3,5-Trimethylbenzene	105	9.445	9.444	(0.938)	10250	1.00000	0.878	
102 4-Chlorotoluene	91	9.457	9.456	(0.939)	11260	1.00000	0.959	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	9034	1.00000	0.920	
105 Pentachloroethane	167	9.749	9.755	(0.968)	1416	1.00000	0.846	
106 1,2,4-Trimethylbenzene	105	9.768	9.773	(0.970)	10714	1.00000	0.913	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	14226	1.00000	0.935	
109 d-Limonene	136	9.981	9.975	(1.343)	482	1.00000	0.959	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	11870	1.00000	0.967	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	5488	1.00000	0.914	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	262364	50.00000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	6097	1.00000	0.987 (Q)	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	11469	1.00000	0.955	
114 Benzyl chloride	91	10.225	10.225	(1.015)	2328	1.00000	6.17	
115 trans-Decalin	138	10.286	10.292	(1.021)	2048	1.00000	1.03	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	6706	1.00000	0.966	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	13029	1.00000	0.932	
119 n-Undecane	43	10.444	10.444	(1.037)	3723	1.00000	928 (TA)	
118 1,2-Dichlorobenzene	146	10.402	10.408	(1.033)	4999	1.00000	0.905 (Q)	
120 cis-Decalin	138	10.810	10.816	(1.073)	1780	1.00000	1.18	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	8831	1.00000	0.914	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	467	1.00000	1.08 (Q)	
123 n-Dodecane	43	11.590	11.590	(1.151)	3831	1.00000	4610 (TAQ)	
124 1,2,4-Trichlorobenzene	180	12.188	12.194	(1.210)	2649	1.00000	0.966	
125 Hexachloro-1,3-butadiene	225	12.383	12.377	(1.229)	1322	1.00000	1.02 (Q)	
126 Naphthalene	128	12.554	12.560	(1.246)	6497	1.00000	1.06	
127 1,2,3-Trichlorobenzene	180	12.956	12.956	(1.286)	2233	1.00000	1.06	

#### QC Flag Legend

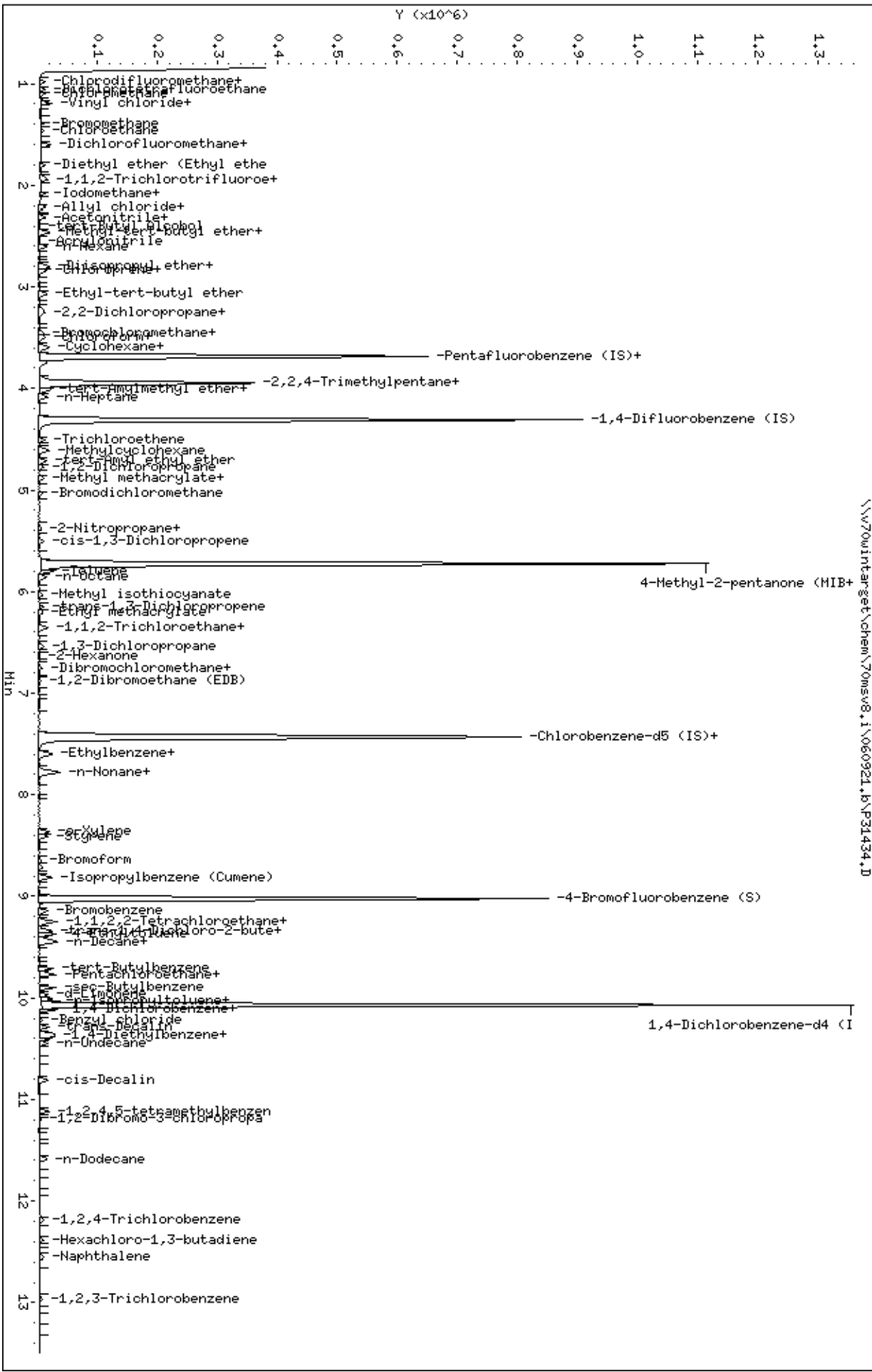
- T - Target compound detected outside RT window.
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.
- D - User disabled compound identification.

#### Review Codes Legend

- :
- LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).
- NI: Indicates that the peak was not integrated at all by the computer software.
- GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

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 Date : 09-JUN-2021 16:28  
 Client ID: CAL2  
 Sample Info: CAL2, 113065:1  
 Purge Volume: 5.0  
 Column phase: RTX-624

Instrument: 70msv8.1  
 Operator: BBL  
 Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31434.D

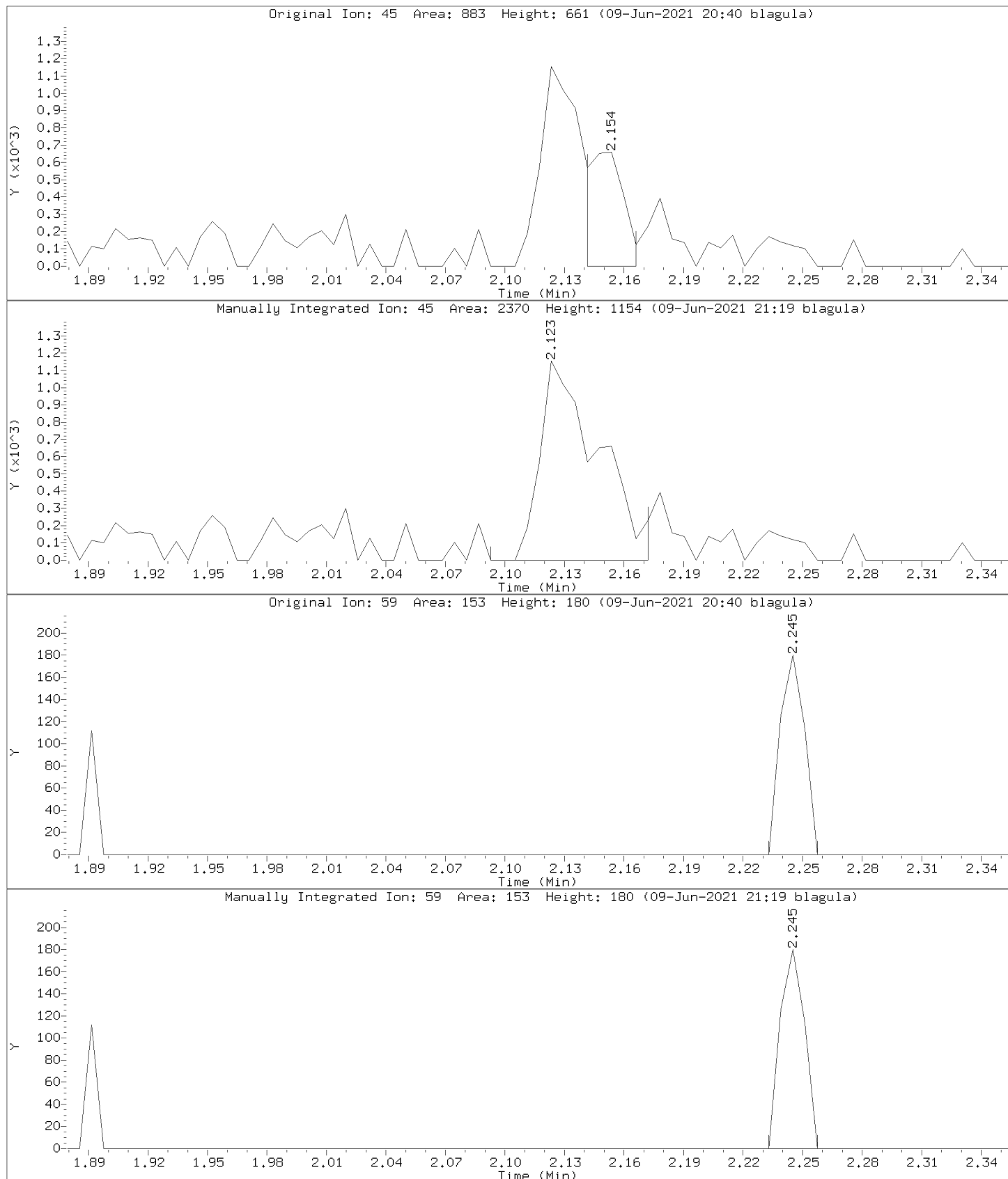
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Instrument: 70msv8.i

Lab Sample ID: CAL2

Compound: 2-Propanol Review Code: LT

CAS Number:



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Injection Date: 09-JUN-2021 16:28

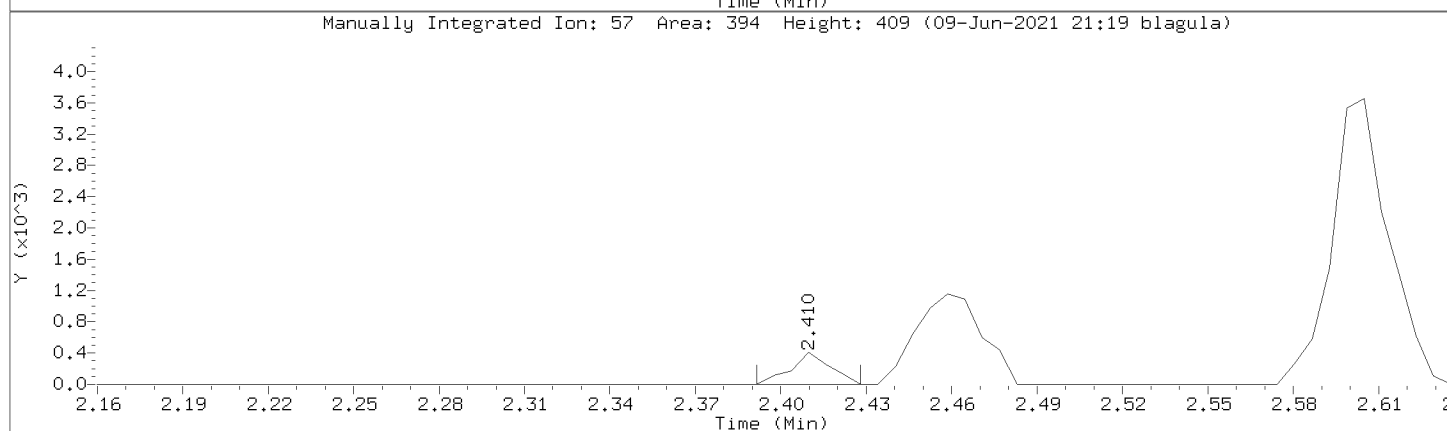
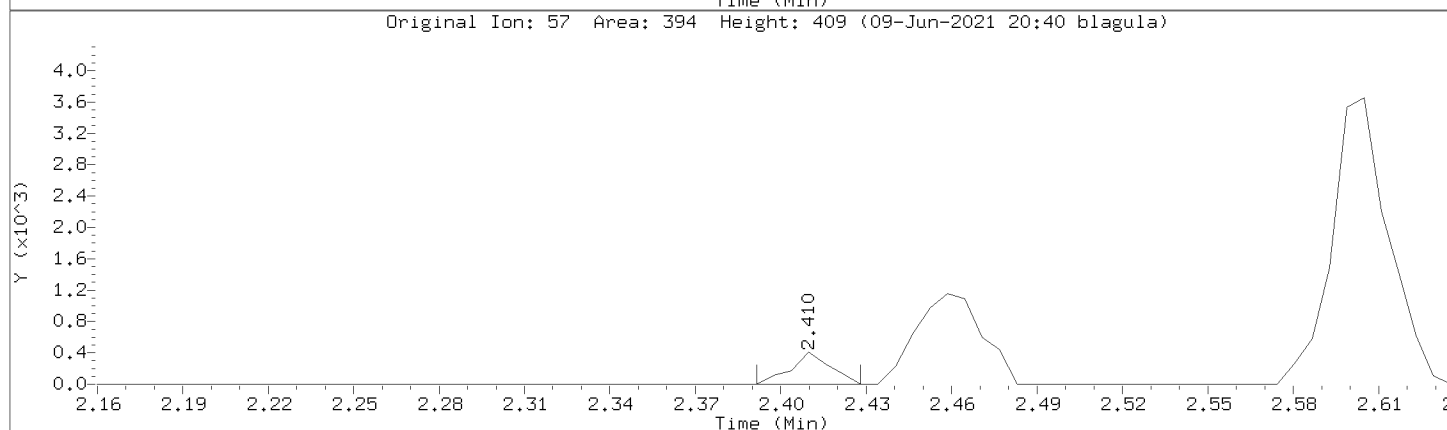
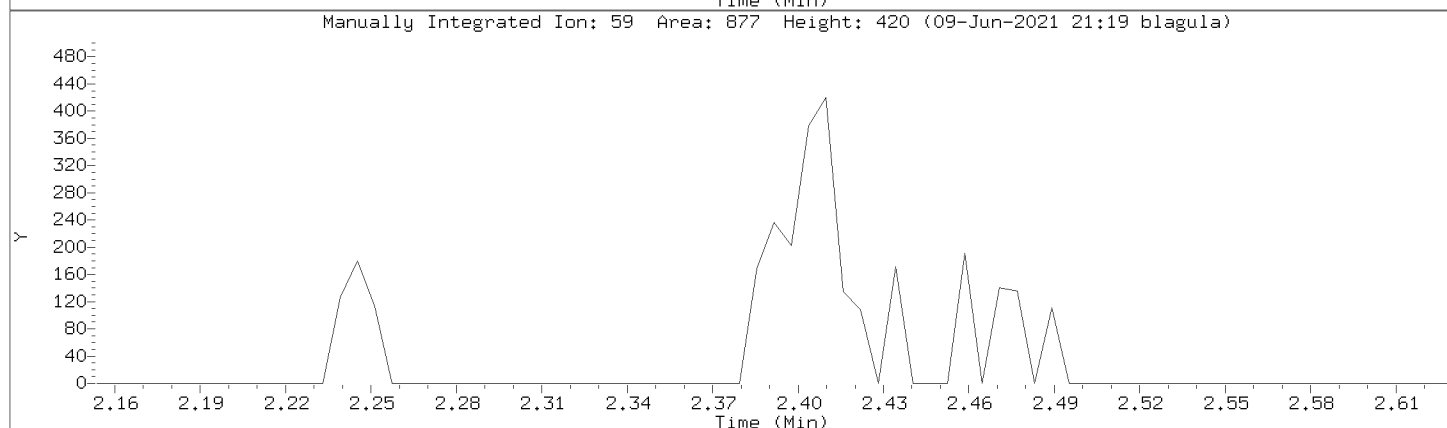
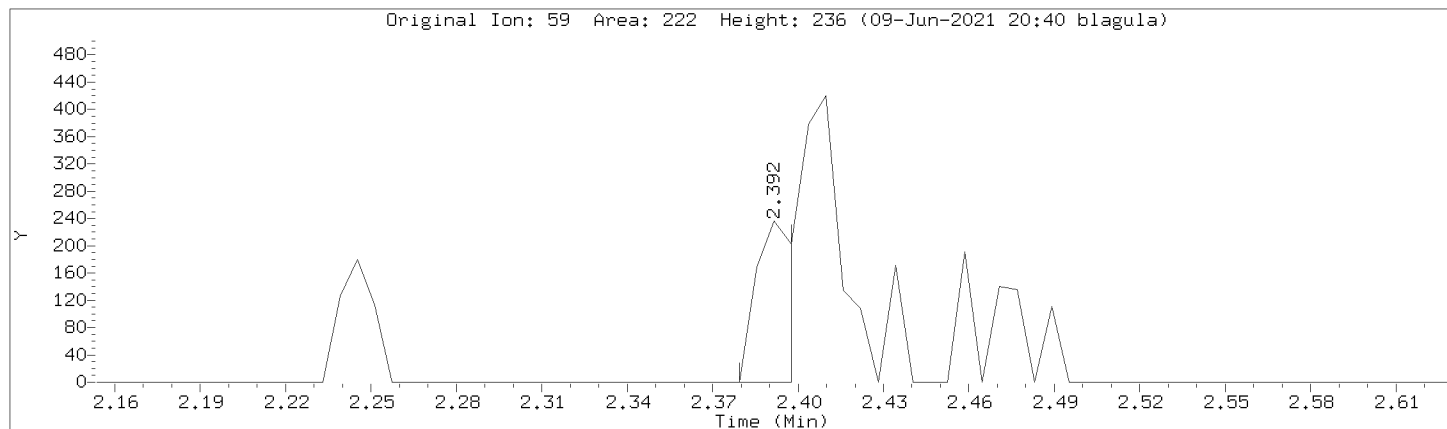
Instrument: 70msv8.i

Lab Sample ID: CAL2

Compound: tert-Butyl Alcohol

Review Code: LT

CAS Number: 75-65-0



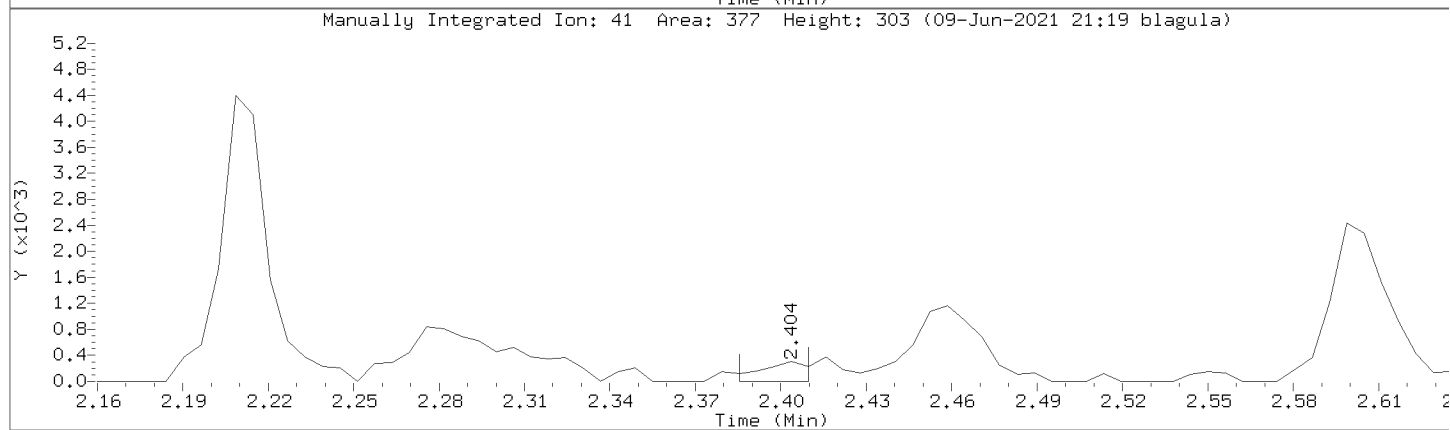
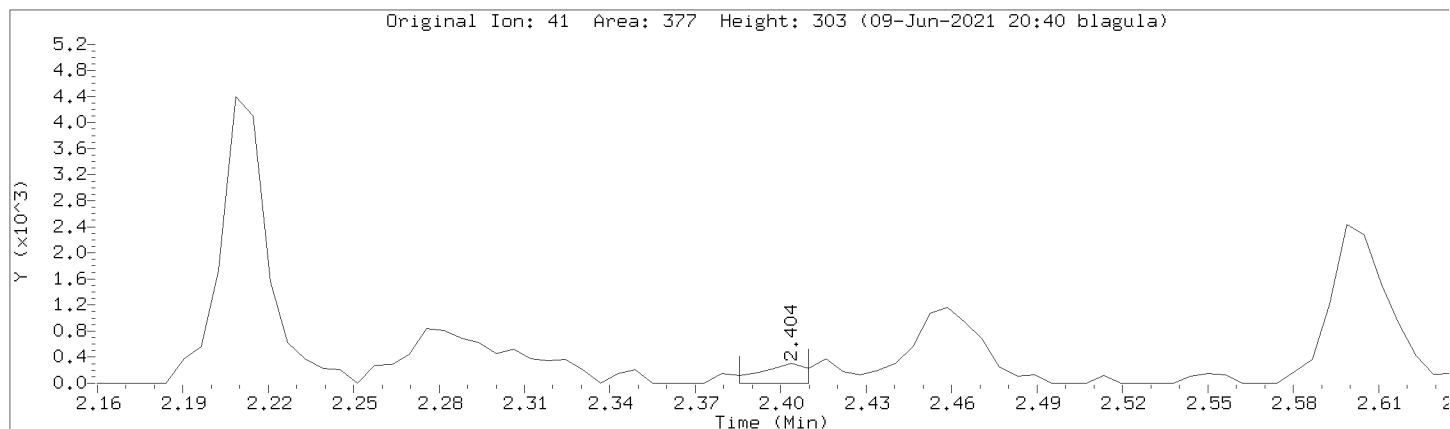


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Injection Date: 09-JUN-2021 16:28

Instrument: 70msv8.i

Lab Sample ID: CAL2



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Injection Date: 09-JUN-2021 16:28

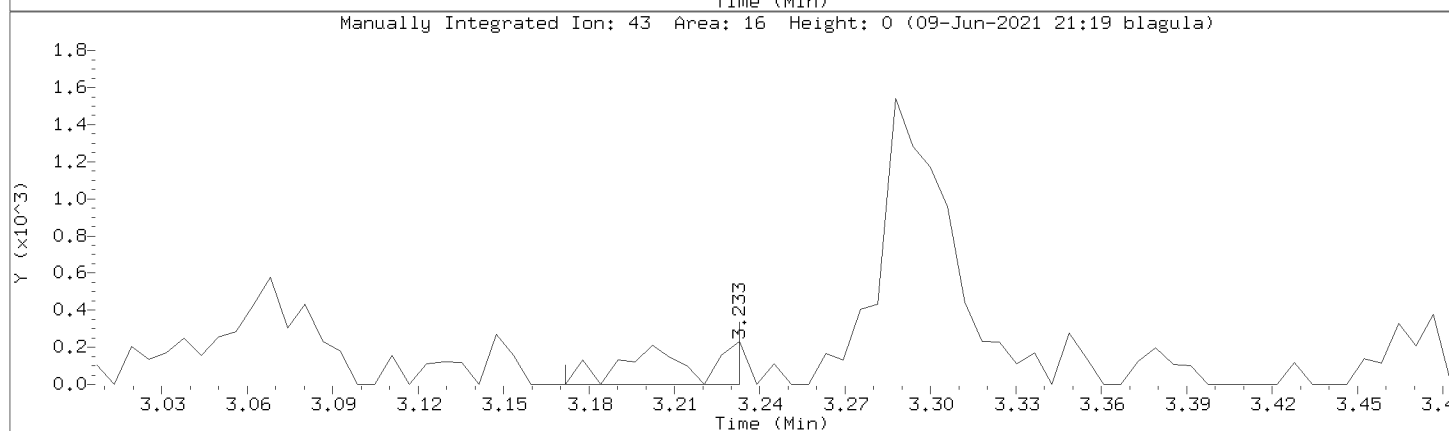
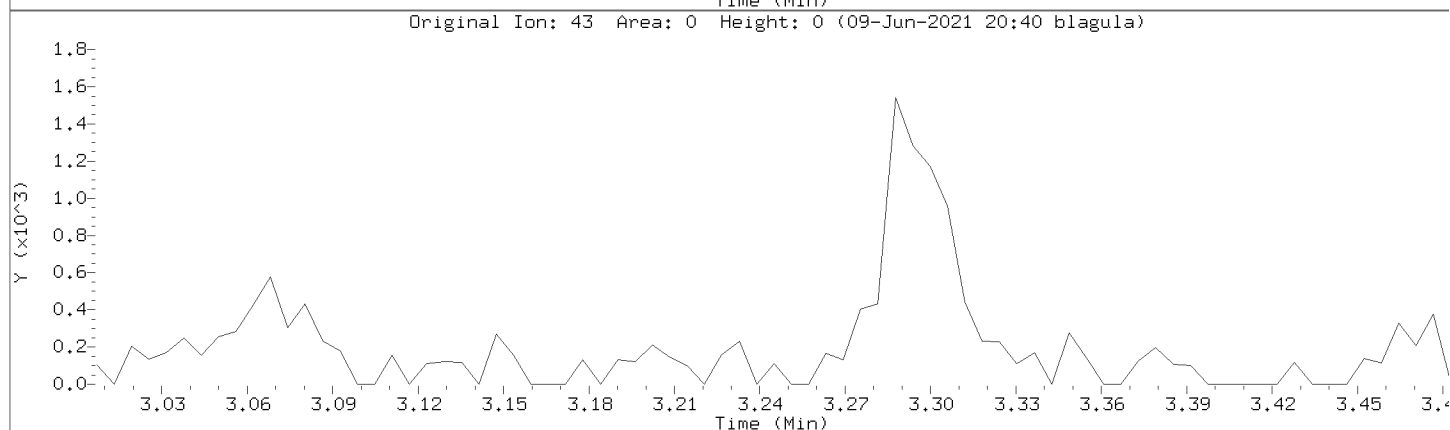
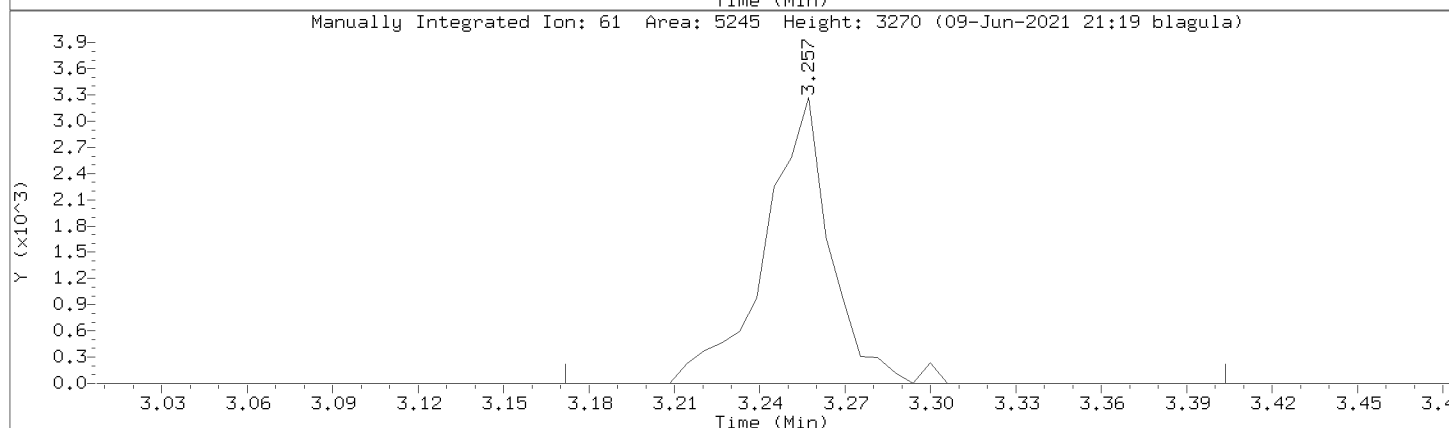
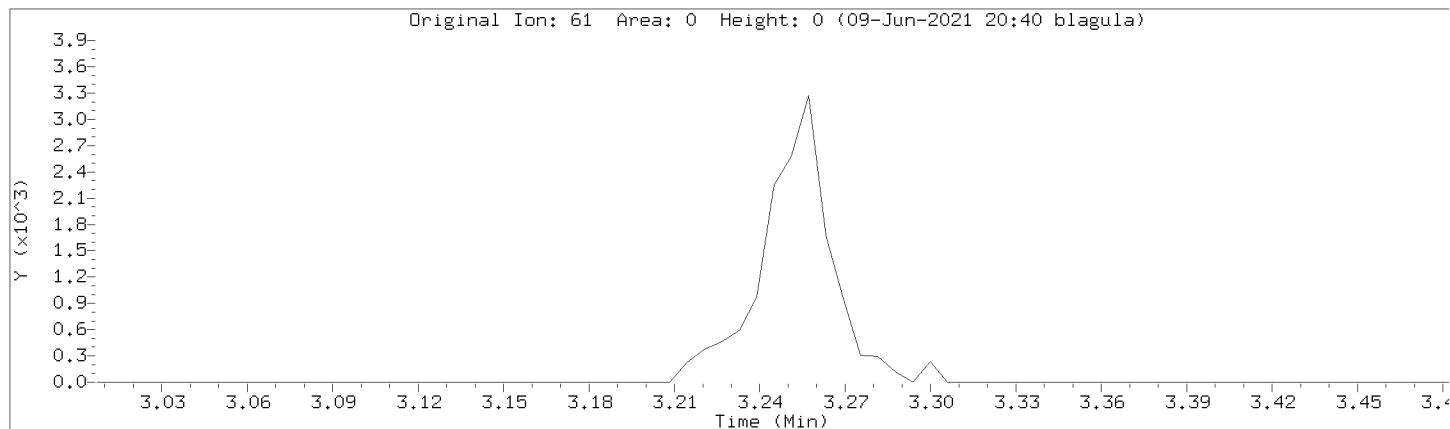
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Lab Sample ID: CAL2

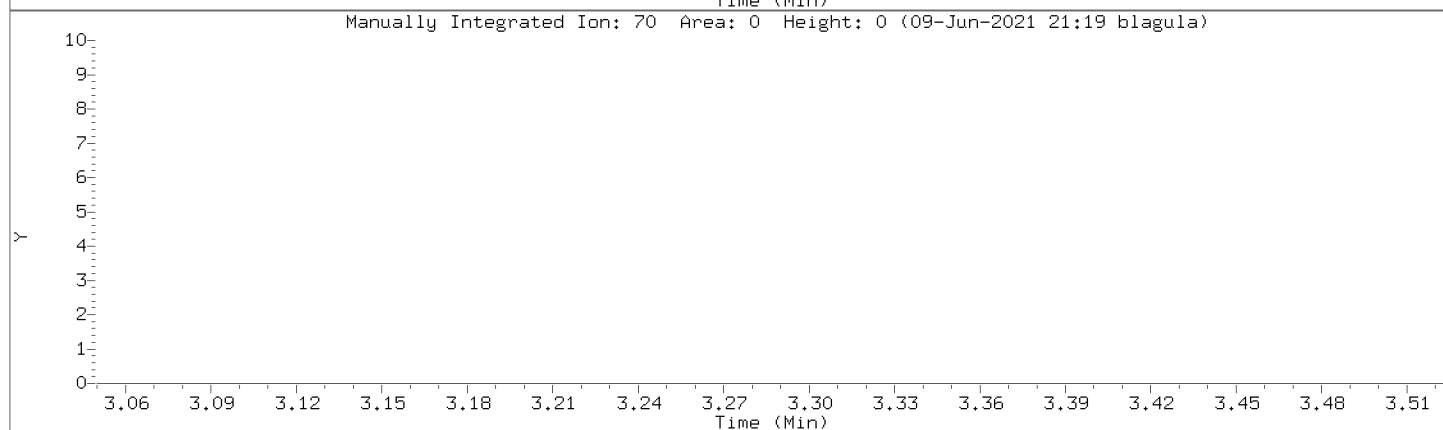
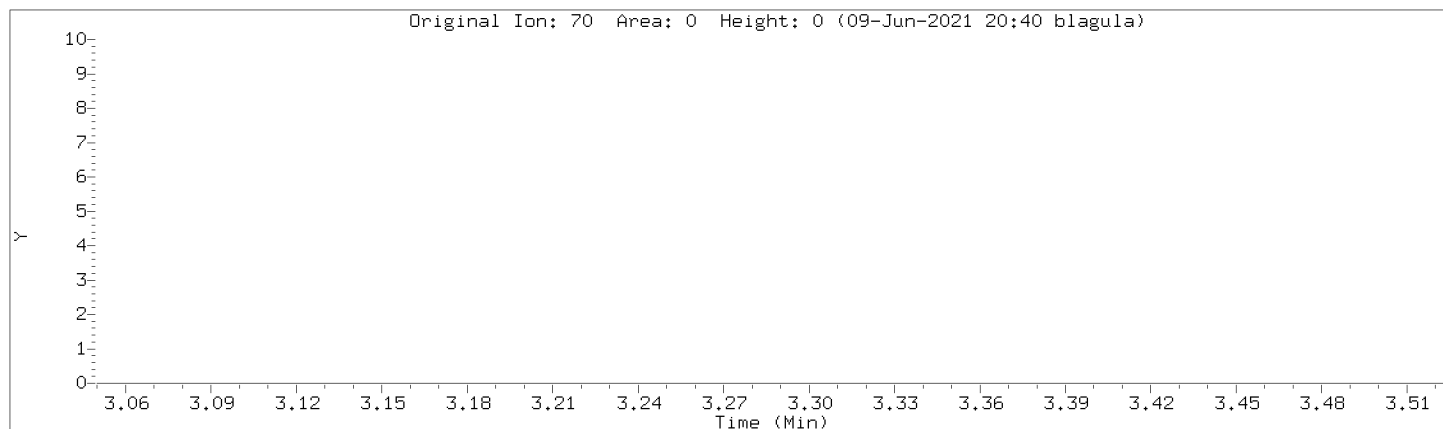
Compound: Ethyl acetate

Review Code: NI

CAS Number: 141-78-6



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Injection Date: 09-JUN-2021 16:28  
Instrument: 70msv8.i  
Lab Sample ID: CAL2



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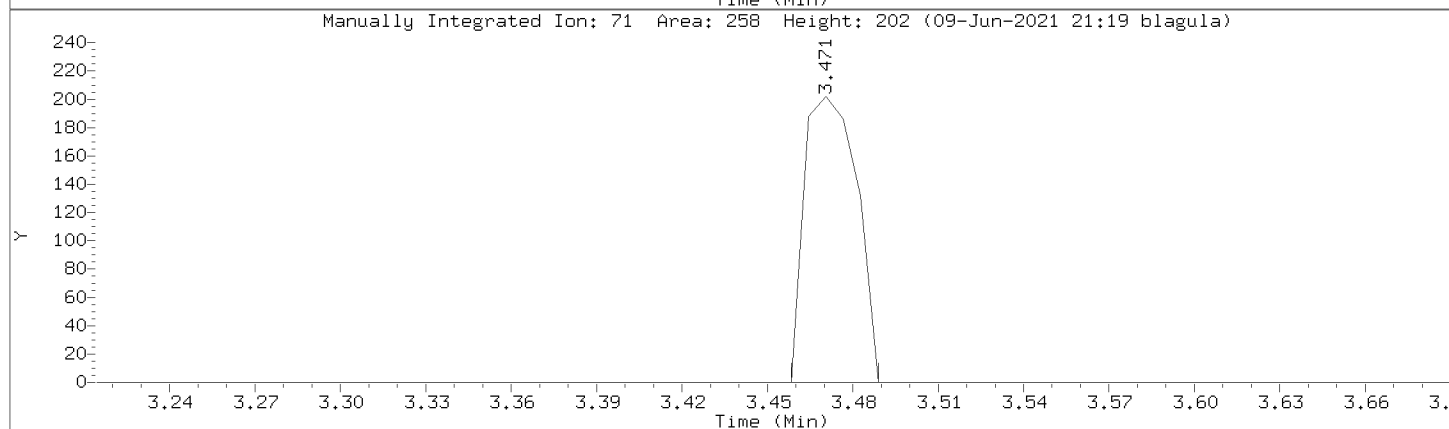
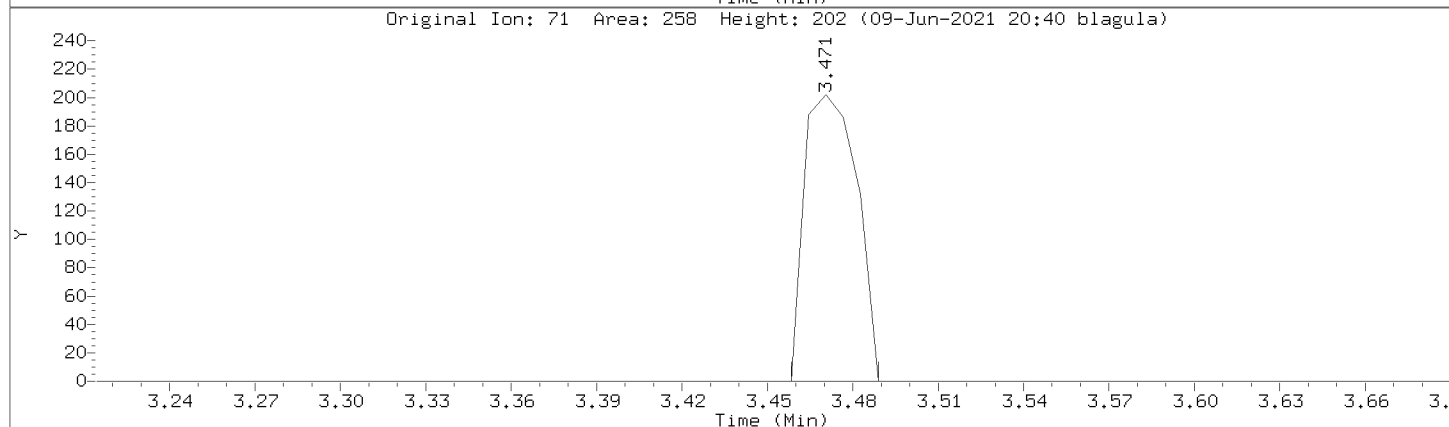
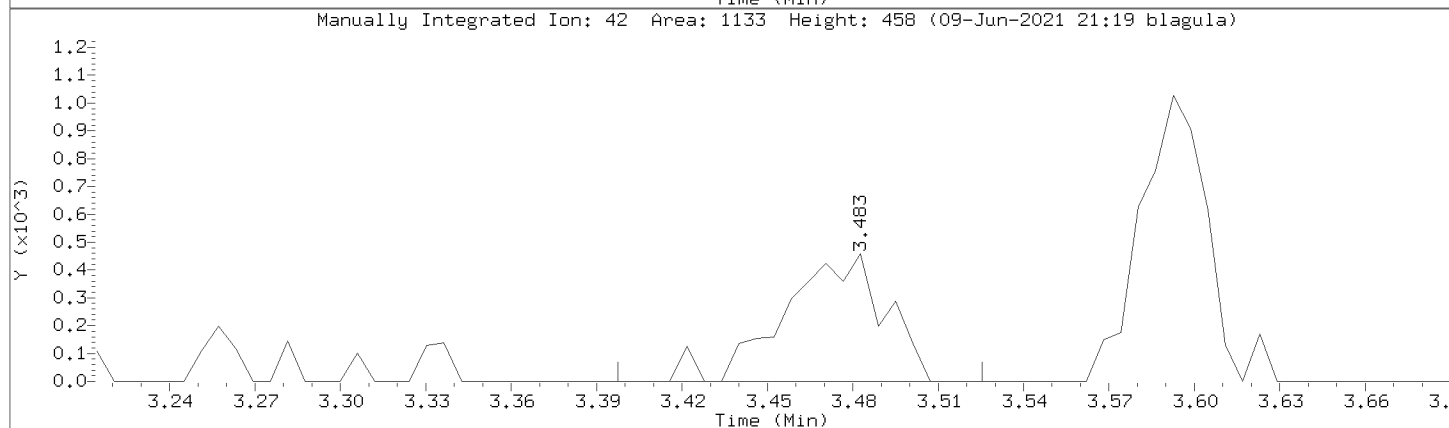
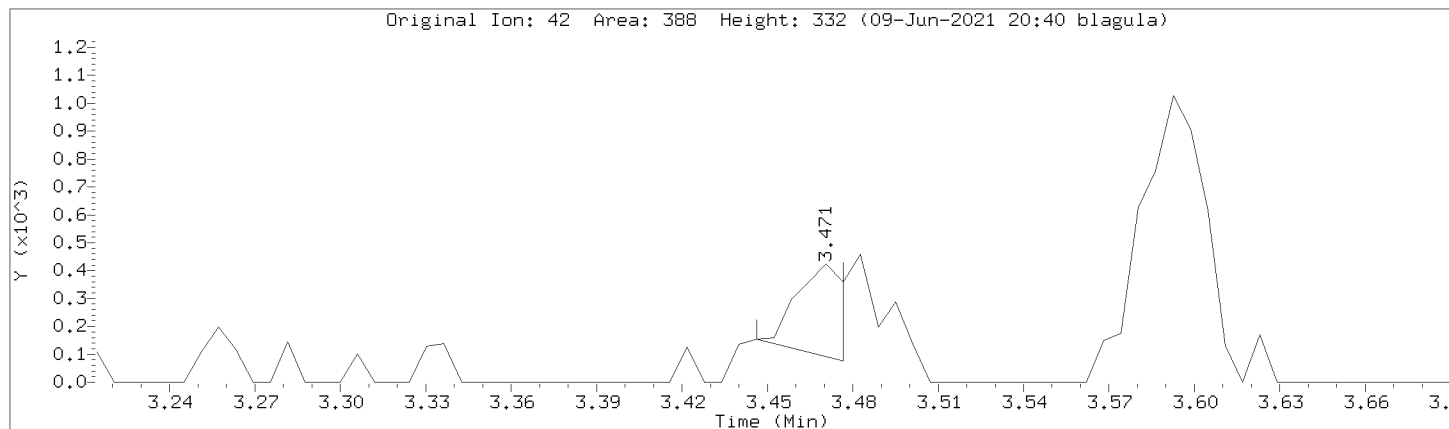
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Lab Sample ID: CAL2

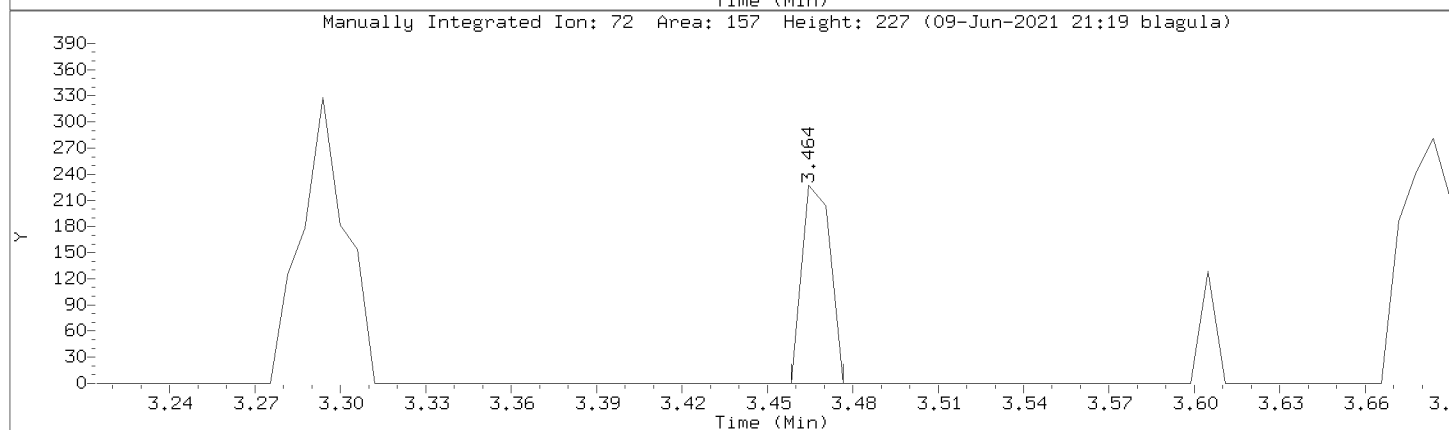
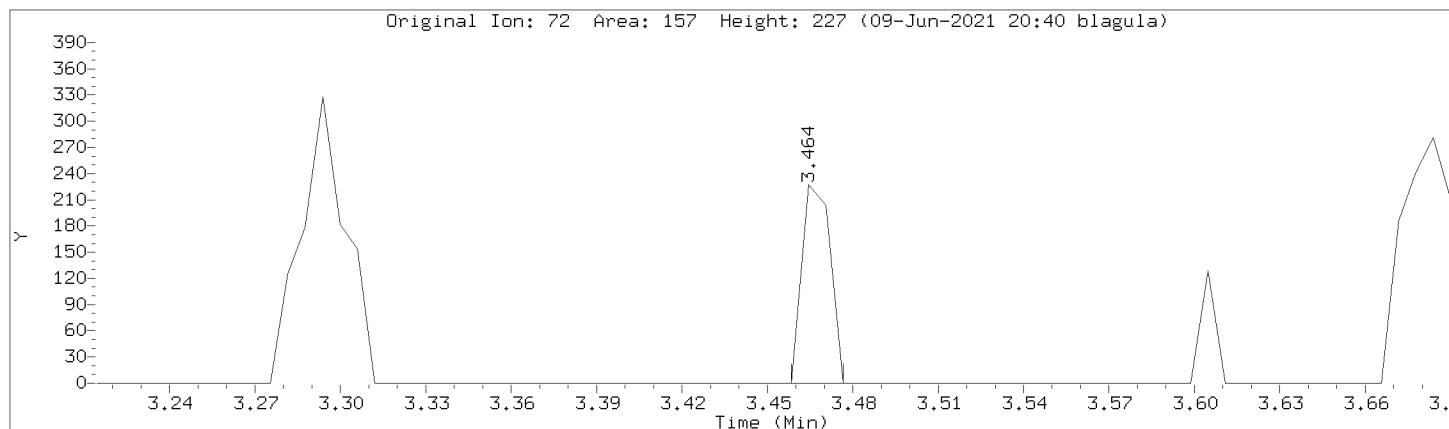
Compound: Tetrahydrofuran

Review Code:

CAS Number: 109-9-9

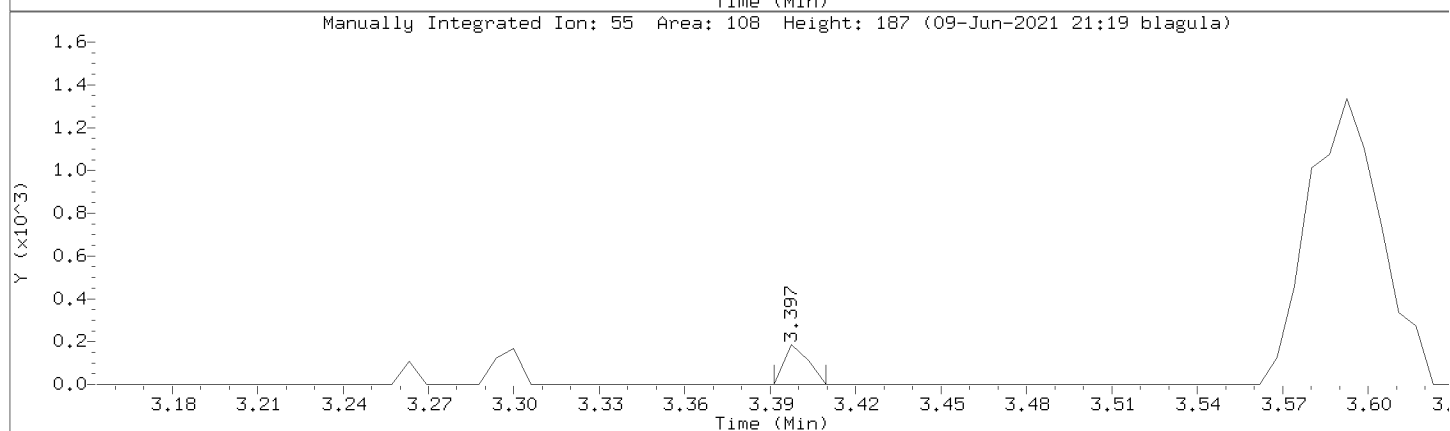
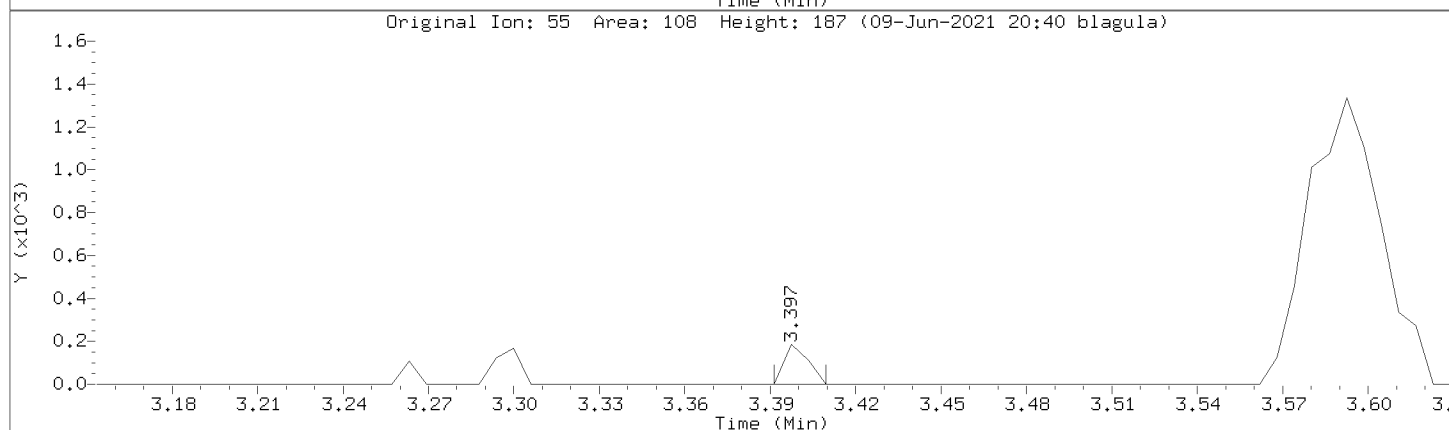
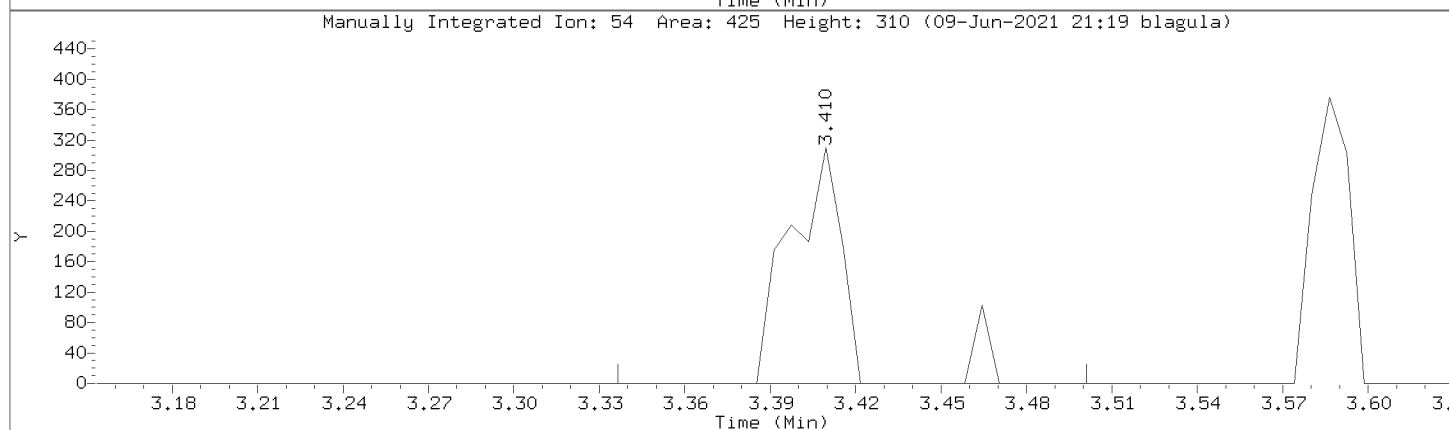
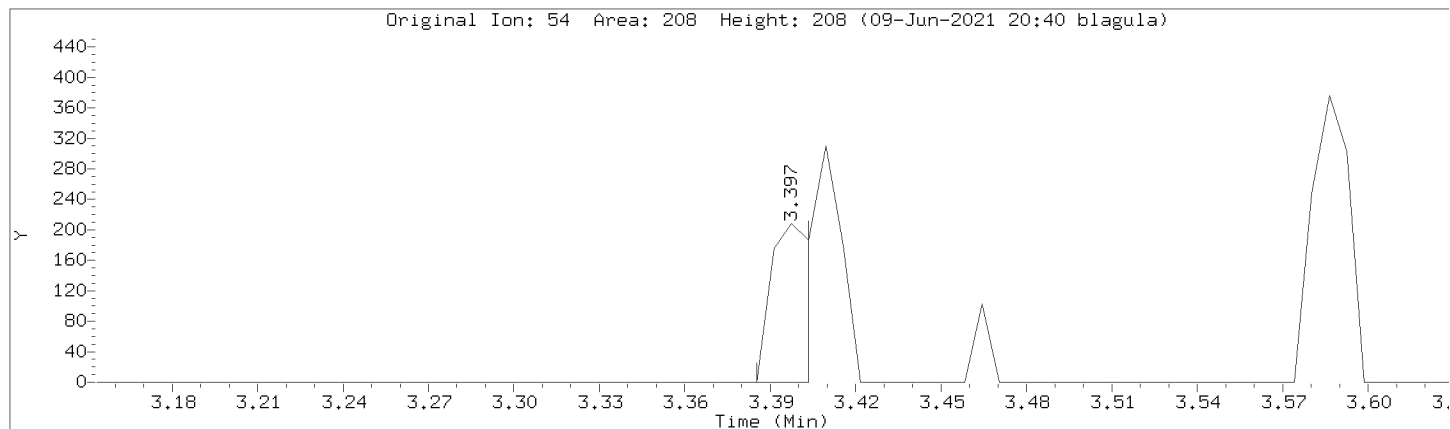


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Injection Date: 09-JUN-2021 16:28  
Instrument: 70msv8.i  
Lab Sample ID: CAL2



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Injection Date: 09-JUN-2021 16:28  
Instrument: 70msv8.i  
Lab Sample ID: CAL2

Compound: Propionitrile      Review Code: LT  
CAS Number: 107-12-0



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Injection Date: 09-JUN-2021 16:28

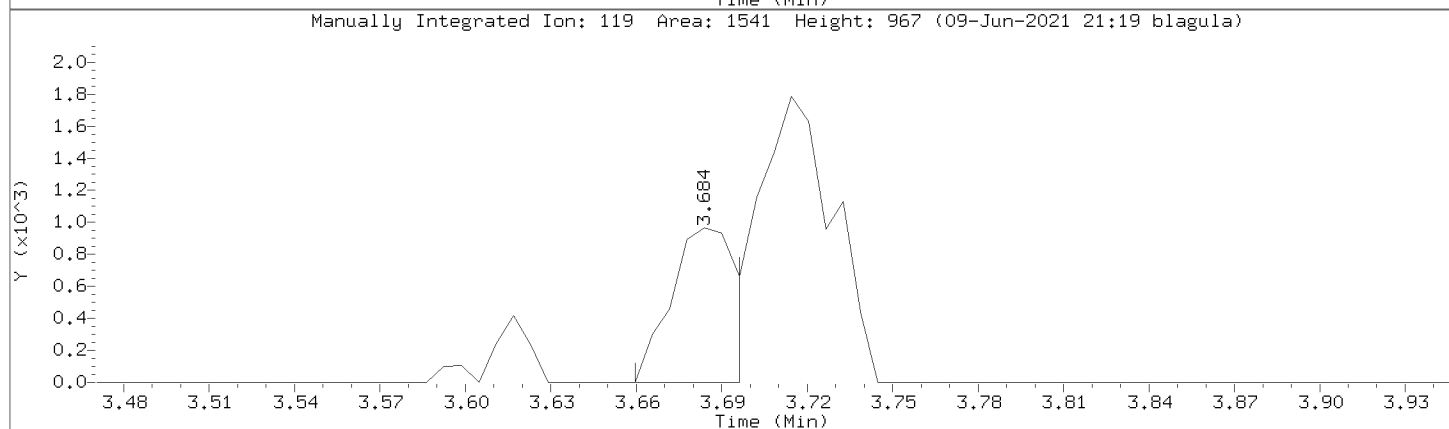
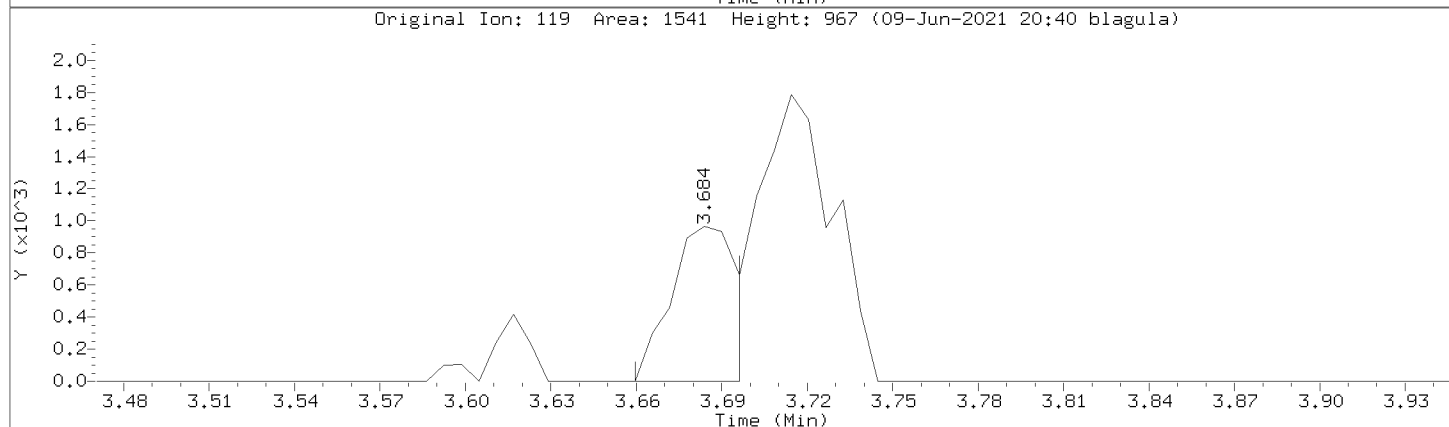
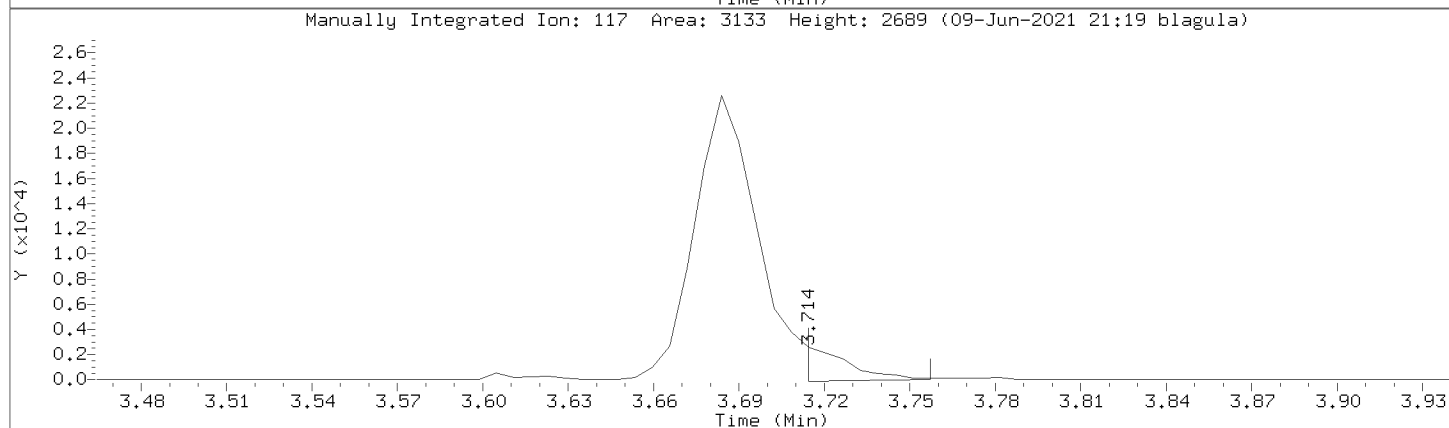
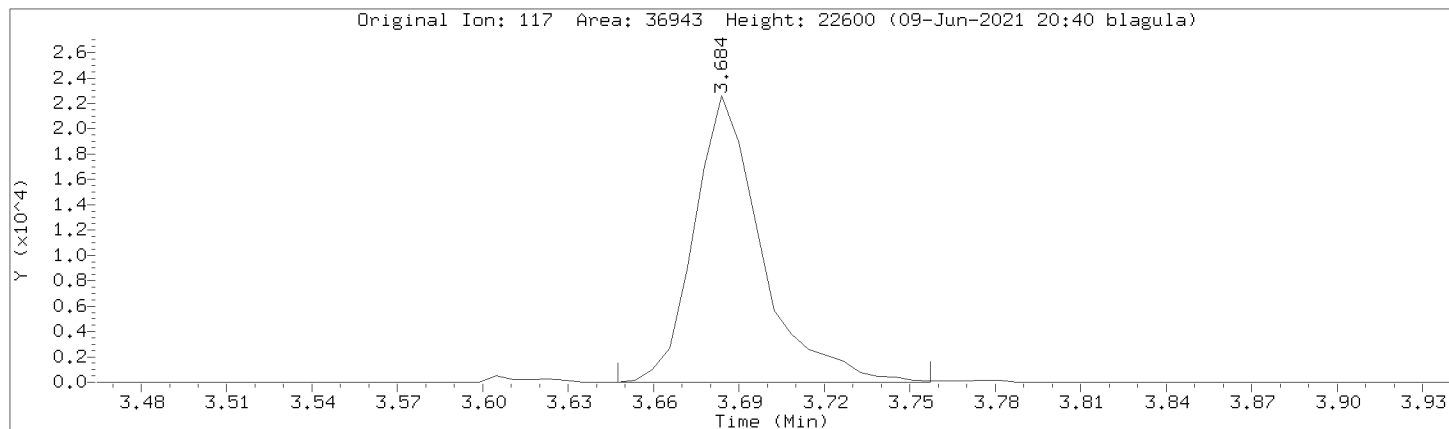
Instrument: 70msv8.i

Lab Sample ID: CAL2

Compound: Carbon tetrachloride

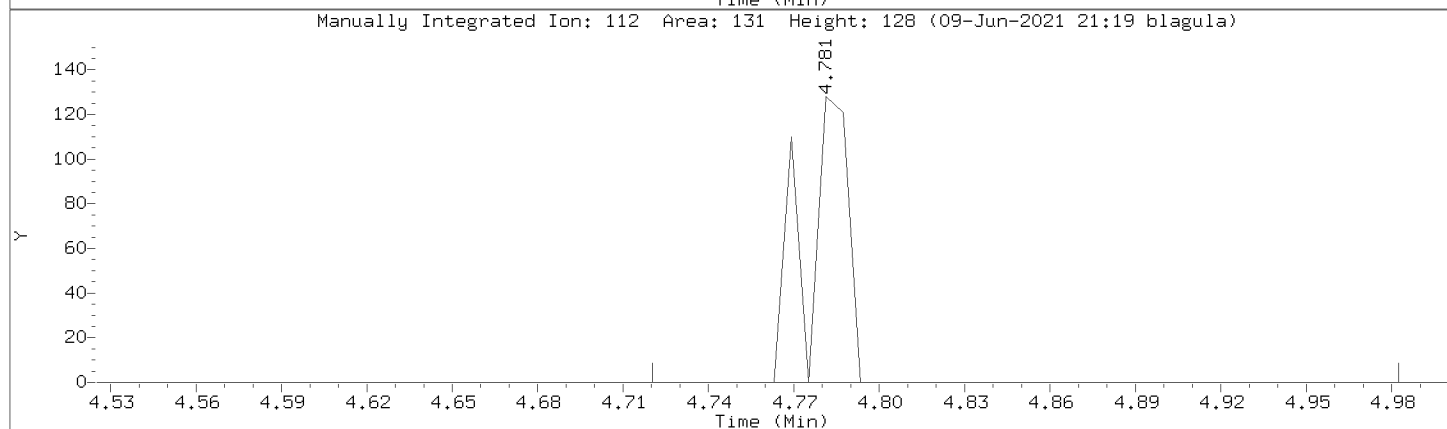
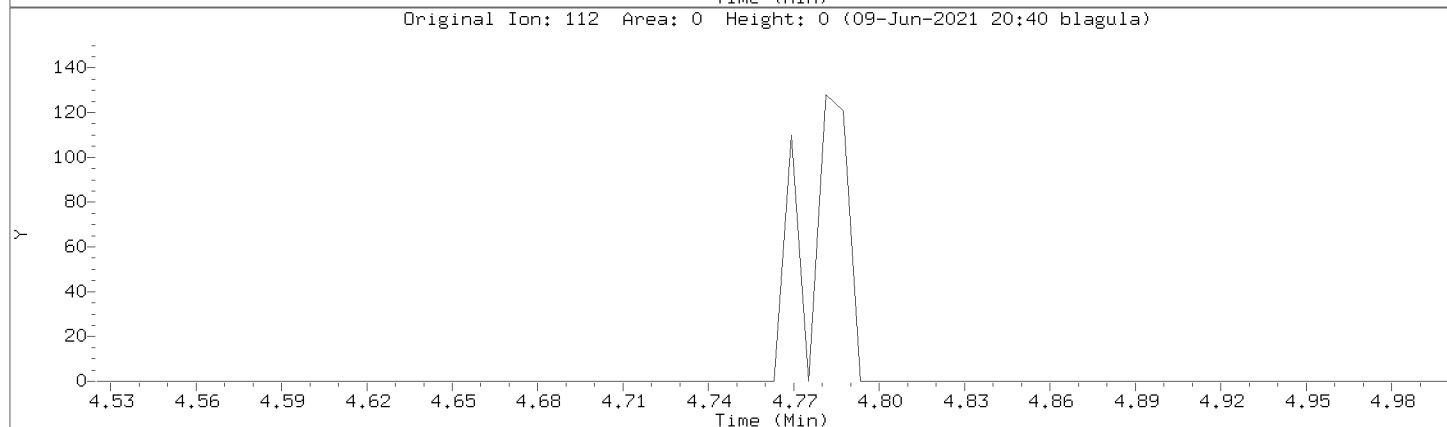
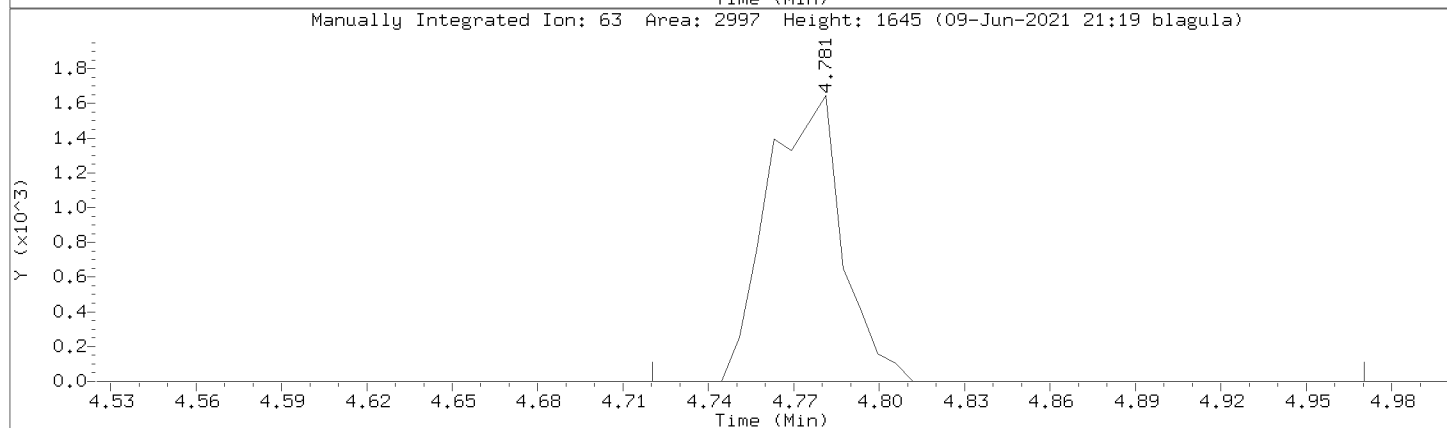
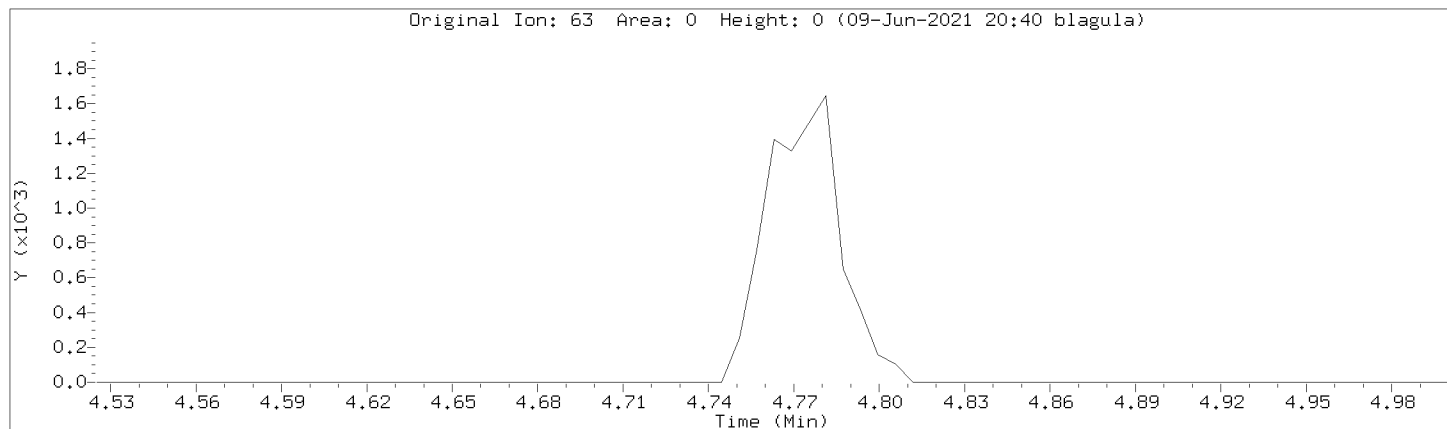
Review Code: GT

CAS Number: 56-23-5



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Injection Date: 09-JUN-2021 16:28  
Instrument: 70msv8.i  
Lab Sample ID: CAL2

Compound: 1,2-Dichloropropane      Review Code: NI  
CAS Number: 78-87-5





Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31434.D

Injection Date: 09-JUN-2021 16:28

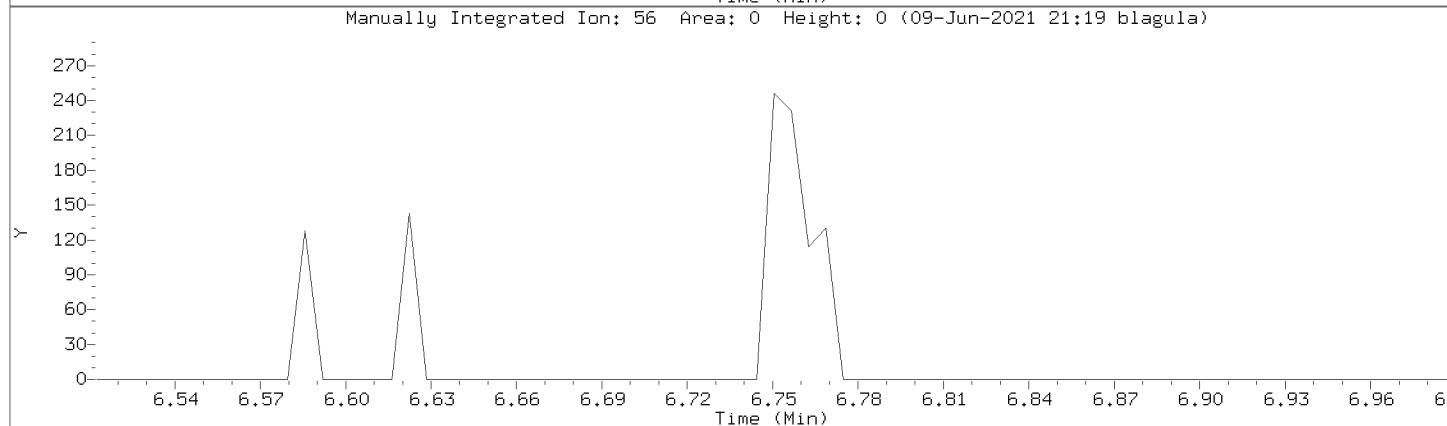
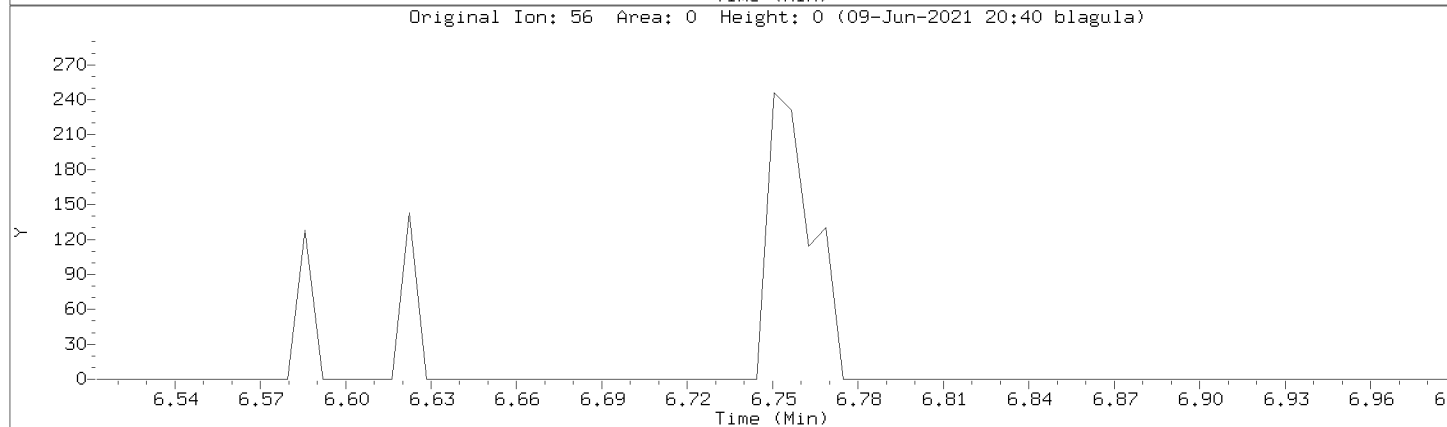
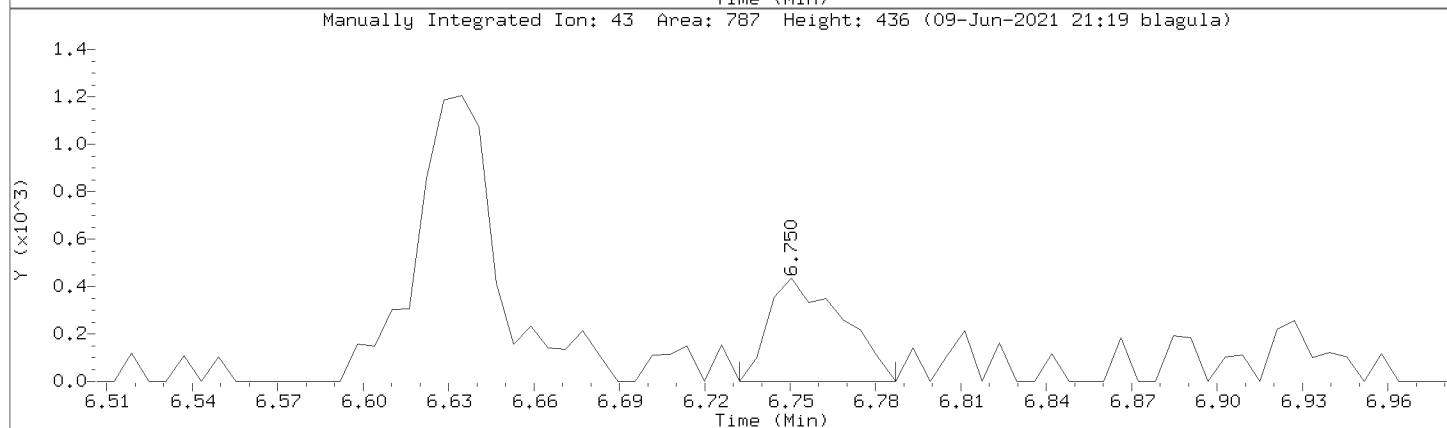
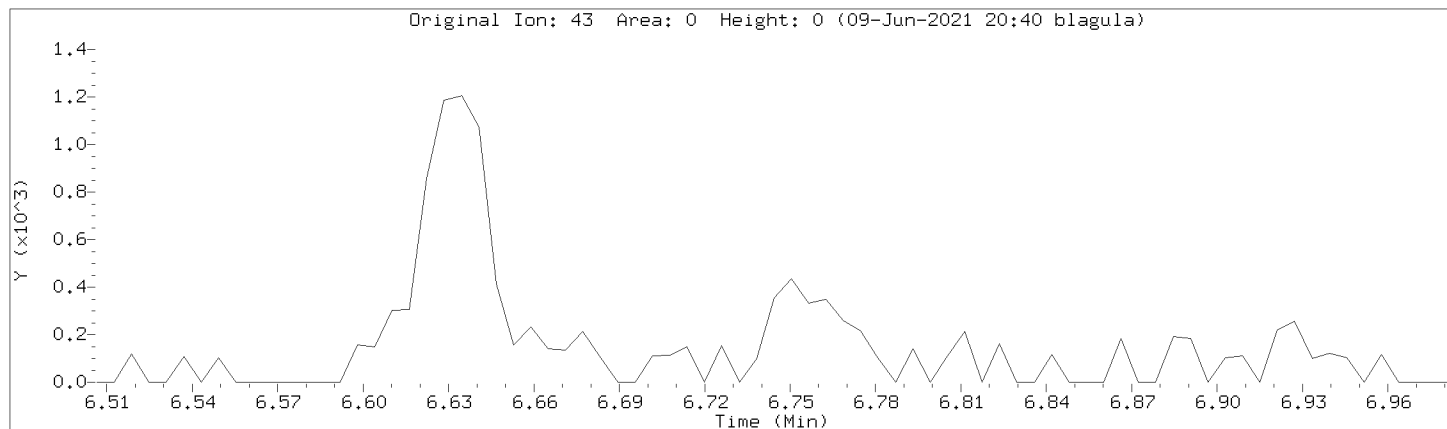
Instrument: 70msv8.i

Lab Sample ID: CAL2

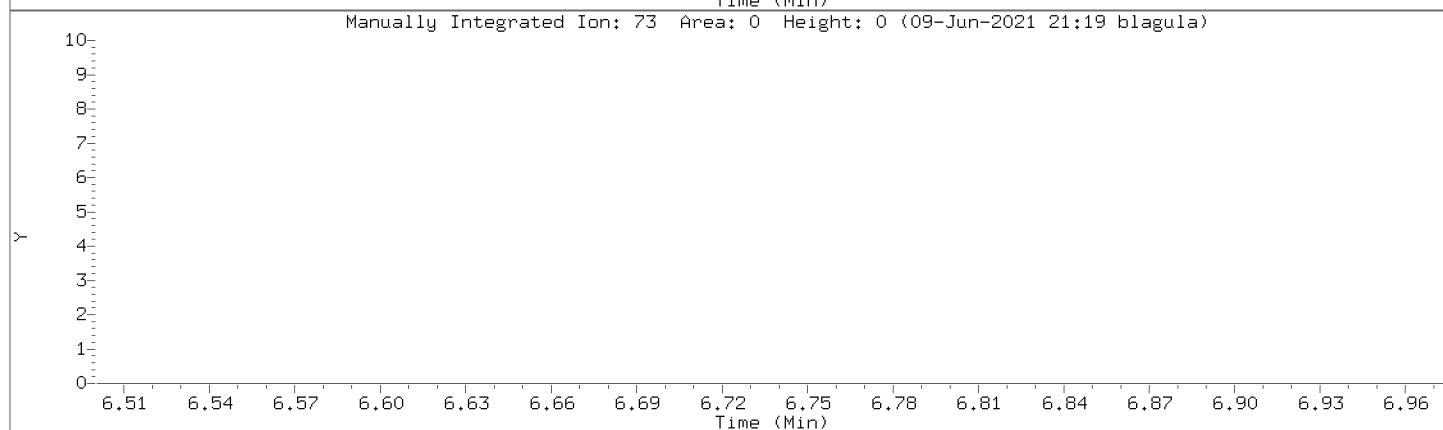
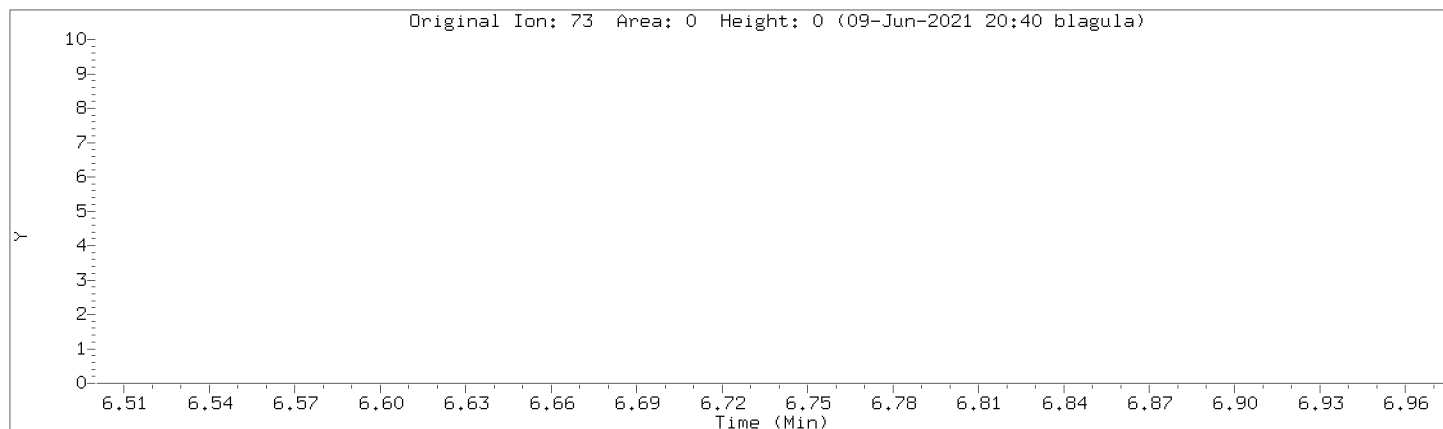
Compound: n-Butyl acetate

Review Code: NI

CAS Number:



Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31434.D  
Injection Date: 09-JUN-2021 16:28  
Instrument: 70msv8.i  
Lab Sample ID: CAL2



Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31435.D  
 Lab Smp Id: CAL3 Client Smp ID: CAL3  
 Inj Date : 09-JUN-2021 16:47 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : cal3, 113085:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\060921.b\060921\_8260W.m  
 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 13 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					REVIEW C		
			MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)	ON-COL ( ug/L)
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	16705	4.00000	4.50		
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	7657	4.00000	4.03		
3 Dichlorodifluoromethane	85		0.970	0.970	(0.264)	18160	4.00000	4.64 (Q)		
4 Chloromethane	50		1.104	1.104	(0.300)	17436	4.00000	4.22		
5 Vinyl chloride	62		1.172	1.172	(0.318)	20123	4.00000	4.54		
6 1,3-Butadiene	54		1.190	1.190	(0.323)	15106	4.00000	4.44		
7 Acetaldehyde	44		Compound Not Detected.							(D)
8 Bromomethane	94		1.391	1.391	(0.378)	5100	4.00000	3.91		
9 Chloroethane	64		1.464	1.464	(0.398)	10715	4.00000	4.46		
10 Dichlorofluoromethane	67		1.604	1.604	(0.436)	22467	4.00000	4.25		
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	19348	4.00000	4.42		
12 Ethanol	45		1.787	1.787	(0.485)	1454	100.000	108 (M)	GT	
13 Diethyl ether (Ethyl ether)	59		1.799	1.799	(0.489)	11205	4.00000	4.41		
16 1,1,2-Trichlorotrifluoroethane	101		1.927	1.927	(0.523)	12552	4.00000	4.32		
14 Acrolein	56		1.934	1.934	(0.525)	1224	4.00000	3.74		
15 1,1-Dichloroethene	96		1.952	1.952	(0.530)	11165	4.00000	4.45		
17 Acetone	43		2.043	2.043	(0.555)	6274	4.00000	2.58		
18 Iodomethane	142		2.068	2.068	(0.561)	1826	4.00000	6.04		
19 2-Propanol	45		2.129	2.129	(0.578)	8215	100.000	89.7 (H)		
20 Carbon disulfide	76		2.086	2.086	(0.566)	38564	4.00000	4.48		
21 Allyl chloride	76		2.214	2.214	(0.601)	7724	4.00000	4.41		
22 Acetonitrile	41		2.281	2.281	(0.619)	6858	20.0000	20.7		
23 Methyl acetate	43		2.238	2.238	(0.608)	17676	4.00000	4.32		

Compounds	QUANT SIG		AMOUNTS					REVIEW C	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)		
24 Methylene Chloride	84	2.318	2.318	(0.629)	12799	4.00000	4.28		
25 tert-Butyl Alcohol	59	2.403	2.403	(0.652)	2820	20.00000	18.9		
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.667)	33835	4.00000	4.20		
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.671)	12495	4.00000	4.36		
26 Acrylonitrile	53	2.543	2.543	(0.691)	3973	4.00000	4.35		
30 n-Hexane	57	2.604	2.604	(0.707)	23227	4.00000	4.61		
29 Diisopropyl ether	45	2.799	2.799	(0.760)	44806	4.00000	4.34		
32 Vinyl acetate	43	2.836	2.836	(0.770)	25044	4.00000	4.08 (H)		
31 1,1-Dichloroethane	63	2.805	2.805	(0.762)	23457	4.00000	4.26		
33 Chloroprene	53	2.842	2.842	(0.772)	17961	4.00000	4.39		
34 Ethyl-tert-butyl ether	59	3.067	3.067	(0.833)	39456	4.00000	4.32		
36 2,2-Dichloropropane	77	3.226	3.226	(0.876)	14665	4.00000	4.14		
35 cis-1,2-Dichloroethene	96	3.256	3.256	(0.884)	13957	4.00000	4.36		
39 Ethyl acetate	61	3.256	3.256	(0.884)	22173	4.00000	4.48 (Q)		
37 2-Butanone (MEK)	43	3.299	3.299	(0.896)	9249	4.00000	4.58		
41 Bromochloromethane	128	3.452	3.452	(0.937)	5720	4.00000	4.12		
42 Tetrahydrofuran	42	3.464	3.464	(0.940)	4039	4.00000	4.55 (Q)		
43 Chloroform	83	3.506	3.506	(0.952)	20362	4.00000	4.09		
38 Propionitrile	54	3.403	3.403	(0.924)	1503	4.00000	4.27 (Q)		
46 Cyclohexane	56	3.592	3.592	(0.975)	29449	4.00000	4.44		
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	16820	4.00000	4.12		
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	342932	50.00000			
48 Carbon tetrachloride	117	3.714	3.714	(0.861)	13712	4.00000	3.82 (QH)		
47 1,1-Dichloropropene	75	3.756	3.756	(0.871)	19405	4.00000	4.33		
55 2,2,4-Trimethylpentane	57	3.909	3.909	(1.061)	40132	4.00000	4.60		
51 Benzene	78	3.927	3.927	(0.911)	53666	4.00000	4.44		
40 Methacrylonitrile	67	3.488	3.488	(0.947)	4786	4.00000	4.27		
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.951	3.951	(0.917)	200641	50.00000	50.0		
56 tert-Amylmethyl ether	73	4.006	4.006	(1.088)	32971	4.00000	4.24		
52 1,2-Dichloroethane	62	4.019	4.019	(1.091)	15875	4.00000	4.40		
57 n-Heptane	43	4.079	4.079	(1.108)	22122	4.00000	4.43		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	603581	50.00000			
59 Trichloroethene	95	4.506	4.506	(1.045)	13609	4.00000	4.35		
60 Methylcyclohexane	83	4.610	4.610	(1.069)	26326	4.00000	4.25		
49 Isobutanol	43	3.903	3.903	(1.060)	9171	20.00000	23.4		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.280)	29442	4.00000	4.31		
61 1,2-Dichloropropane	63	4.774	4.774	(1.107)	14000	4.00000	4.20		
63 Methyl methacrylate	69	4.878	4.878	(1.131)	8001	4.00000	4.20		
64 1,4-Dioxane (p-Dioxane)	88	4.909	4.909	(1.139)	2049	100.000	106 (QM)	LT	
62 Dibromomethane	93	4.884	4.884	(1.133)	6792	4.00000	4.04		
65 Bromodichloromethane	83	5.037	5.037	(1.168)	16707	4.00000	4.44		
66 2-Nitropropane	43	5.378	5.378	(1.247)	5901	4.00000	3.97 (Q)		
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	5940	4.00000	4.46		
68 cis-1,3-Dichloropropene	75	5.512	5.512	(1.279)	18027	4.00000	3.97		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	10416	4.00000	4.10		
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	732068	50.00000	50.1		
71 Toluene	91	5.799	5.799	(1.345)	57669	4.00000	4.26		
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	16734	10.00000	9.86		
74 trans-1,3-Dichloropropene	75	6.146	6.146	(1.426)	14504	4.00000	3.78		
75 Ethyl methacrylate	69	6.201	6.201	(1.438)	13400	4.00000	3.82		
76 1,1,2-Trichloroethane	83	6.347	6.347	(1.472)	9149	4.00000	3.97		
77 Tetrachloroethene	166	6.360	6.360	(0.856)	12352	4.00000	4.12		
78 1,3-Dichloropropane	76	6.542	6.542	(0.880)	19833	4.00000	4.36		

Compounds	QUANT	SIG						AMOUNTS		REVIEW C
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43		6.634	6.634	(0.893)	8624	4.00000	4.60		
73 n-Octane	43		5.860	5.860	(1.359)	21317	4.00000	4.76 (Q)		
81 n-Butyl acetate	43		6.756	6.756	(1.567)	3161	4.00000	4.09 (Q)		
80 Dibromochloromethane	129		6.750	6.750	(0.908)	10183	4.00000	4.19		
82 1,2-Dibromoethane (EDB)	107		6.884	6.884	(1.597)	10800	4.00000	4.51		
* 83 Chlorobenzene-d5 (IS)	82		7.432	7.432	(1.000)	301707	50.00000			
84 Chlorobenzene	112		7.469	7.469	(1.005)	35072	4.00000	4.32		
86 Ethylbenzene	106		7.603	7.603	(1.023)	20571	4.00000	4.36		
85 1,1,1,2-Tetrachloroethane	131		7.609	7.609	(1.024)	10109	4.00000	4.02		
88 n-Nonane	43		7.768	7.768	(1.045)	15729	4.00000	4.94 (Q)		
87 m&p-Xylene	106		7.780	7.780	(1.047)	48885	8.00000	8.61		
89 o-Xylene	106		8.365	8.365	(1.125)	22718	4.00000	4.20		
90 Styrene	104		8.408	8.408	(1.131)	38207	4.00000	4.30		
91 Bromoform	173		8.652	8.652	(1.164)	5405	4.00000	4.00		
92 Isopropylbenzene (Cumene)	105		8.816	8.816	(0.875)	59745	4.00000	4.14		
\$ 93 4-Bromofluorobenzene (S)	95		9.024	9.024	(1.214)	268087	50.00000	50.0		
94 Bromobenzene	156		9.146	9.146	(0.908)	13401	4.00000	4.20		
95 1,1,2,2-Tetrachloroethane	83		9.243	9.243	(0.918)	13067	4.00000	4.27		
98 n-Propylbenzene	91		9.255	9.255	(0.919)	78407	4.00000	4.30		
96 1,2,3-Trichloropropane	110		9.280	9.280	(0.921)	3609	4.00000	4.17 (Q)		
97 trans-1,4-Dichloro-2-butene	53		9.310	9.310	(0.924)	2620	4.00000	4.19 (Q)		
103 n-Decane	43		9.420	9.420	(1.267)	12888	4.00000	5.22 (Q)		
99 2-Chlorotoluene	91		9.341	9.341	(0.927)	45086	4.00000	4.22		
100 4-Ethyltoluene	105		9.371	9.371	(0.930)	62144	4.00000	4.12		
101 1,3,5-Trimethylbenzene	105		9.444	9.444	(0.938)	51364	4.00000	4.37		
102 4-Chlorotoluene	91		9.456	9.456	(0.939)	49513	4.00000	4.19		
104 tert-Butylbenzene	119		9.713	9.713	(0.964)	41513	4.00000	4.20		
105 Pentachloroethane	167		9.755	9.755	(0.969)	6887	4.00000	4.09		
106 1,2,4-Trimethylbenzene	105		9.773	9.773	(0.970)	50122	4.00000	4.24		
107 sec-Butylbenzene	105		9.902	9.902	(0.983)	66662	4.00000	4.35		
109 d-Limonene	136		9.975	9.975	(1.342)	2129	4.00000	4.24		
110 p-Isopropyltoluene	119		10.030	10.030	(0.996)	53046	4.00000	4.29		
108 1,3-Dichlorobenzene	146		10.005	10.005	(0.993)	25032	4.00000	4.14		
* 111 1,4-Dichlorobenzene-d4 (IS)	152		10.072	10.072	(1.000)	264166	50.00000			
112 1,4-Dichlorobenzene	146		10.091	10.091	(1.002)	26360	4.00000	4.24 (Q)		
113 1,2,3-Trimethylbenzene	105		10.115	10.115	(1.004)	50769	4.00000	4.20		
114 Benzyl chloride	91		10.225	10.225	(1.015)	10828	4.00000	7.96		
115 trans-Decalin	138		10.292	10.292	(1.022)	9871	4.00000	4.92		
116 1,4-Diethylbenzene	119		10.353	10.353	(1.028)	29465	4.00000	4.21		
117 n-Butylbenzene	91		10.377	10.377	(1.030)	60654	4.00000	4.31		
119 n-Undecane	43		10.444	10.444	(1.037)	12220	4.00000	3.70 (Q)		
118 1,2-Dichlorobenzene	146		10.408	10.408	(1.033)	23881	4.00000	4.29		
120 cis-Decalin	138		10.816	10.816	(1.074)	6948	4.00000	4.60		
121 1,2,4,5-tetramethylbenzene	119		11.115	11.115	(1.103)	40097	4.00000	4.12		
122 1,2-Dibromo-3-chloropropane	75		11.206	11.206	(1.113)	1652	4.00000	3.81		
123 n-Dodecane	43		11.590	11.590	(1.151)	10516	4.00000	4600 (AQ)		
124 1,2,4-Trichlorobenzene	180		12.194	12.194	(1.211)	11069	4.00000	4.01		
125 Hexachloro-1,3-butadiene	225		12.377	12.377	(1.229)	6383	4.00000	4.91		
126 Naphthalene	128		12.560	12.560	(1.247)	25047	4.00000	4.04		
127 1,2,3-Trichlorobenzene	180		12.956	12.956	(1.286)	8599	4.00000	4.06		

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Report Date: 09-Jun-2021 21:21

#### QC Flag Legend

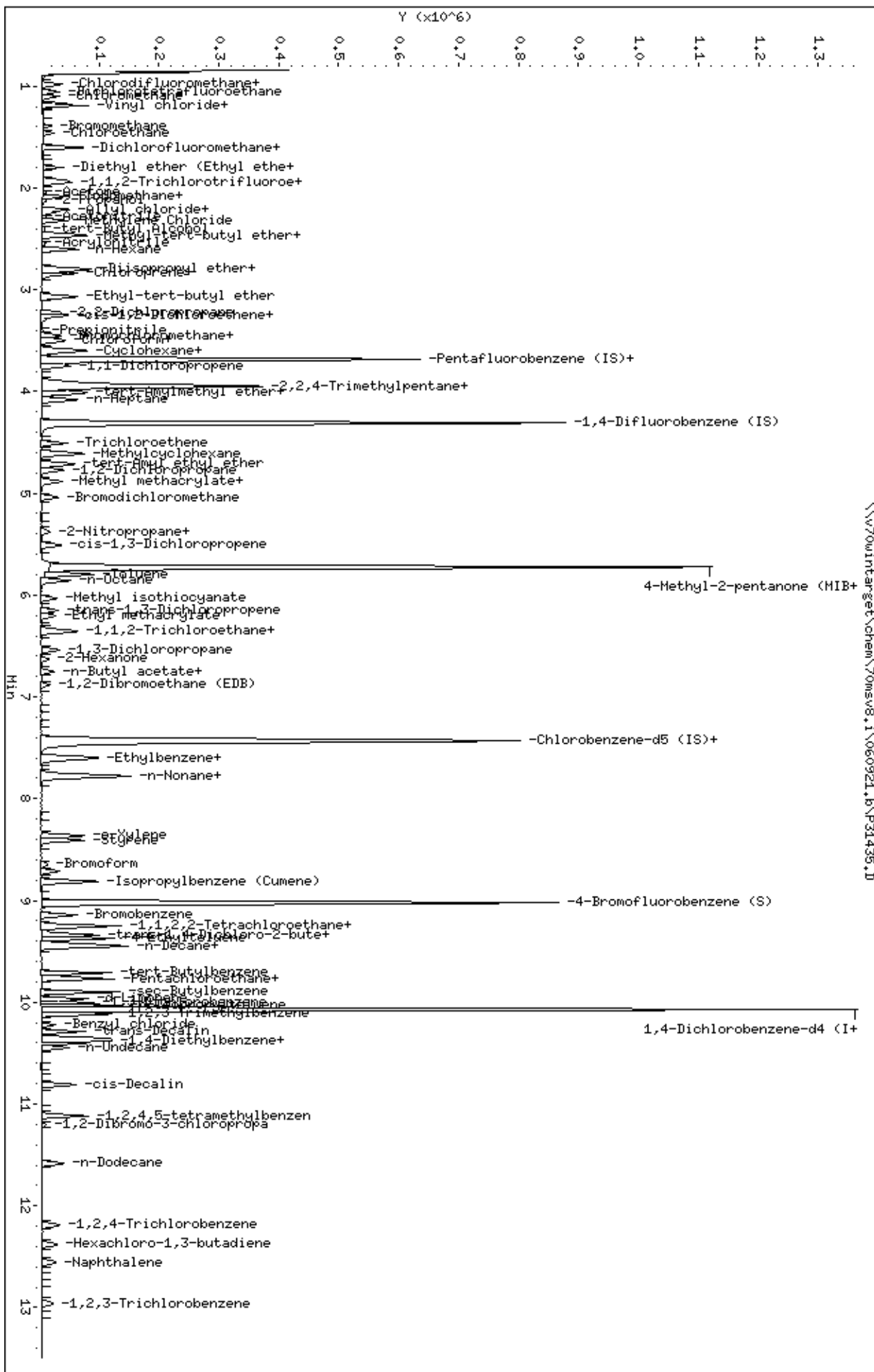
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.
- D - User disabled compound identification.

#### Review Codes Legend

- :  
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).
- LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

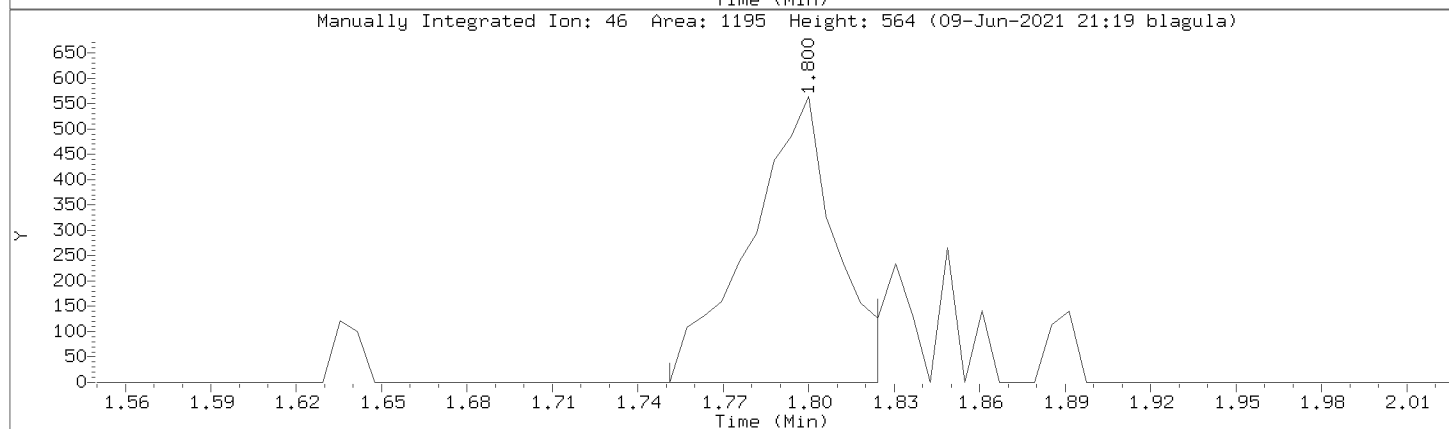
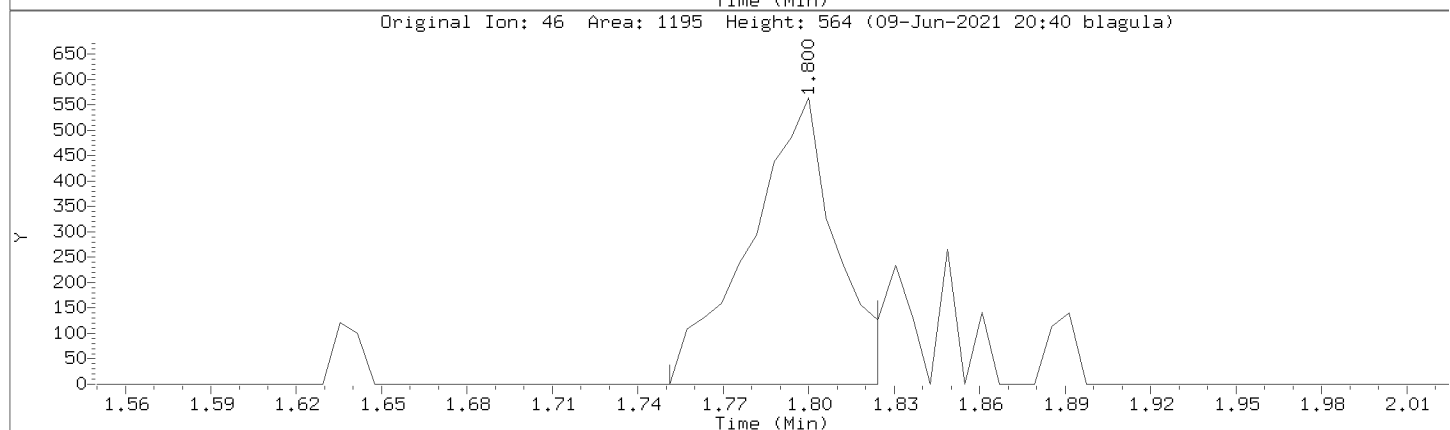
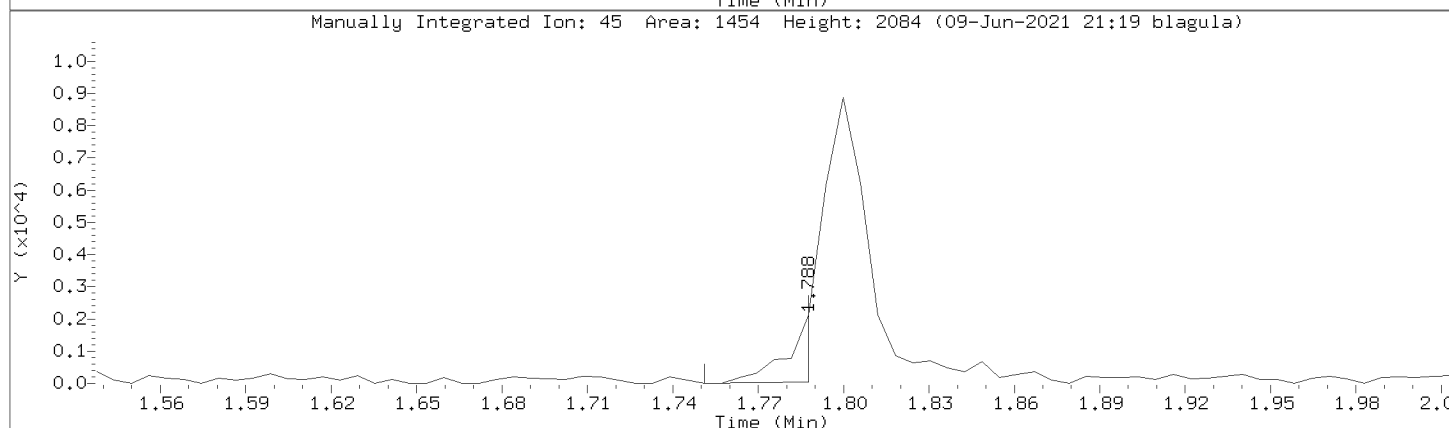
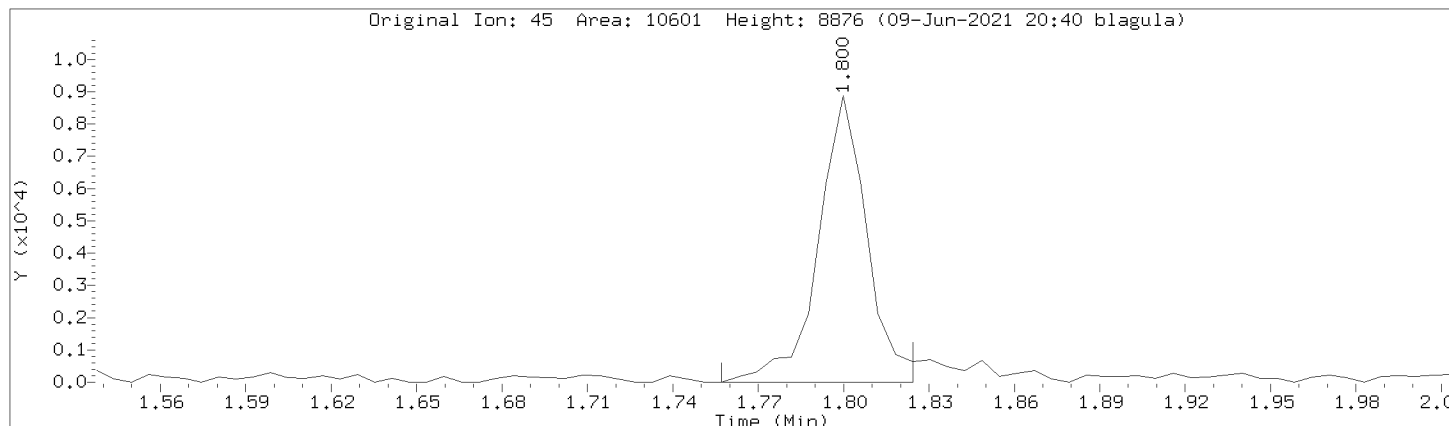
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 Date : 09-JUN-2021 16:47  
 Client ID: CAL3  
 Sample Info: CAL3, 113085:1  
 Purge Volume: 5.0  
 Column phase: RTX-624

Instrument: 70msv8.1  
 Operator: BBL  
 Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31435.D  
Injection Date: 09-JUN-2021 16:47  
Instrument: 70msv8.i  
Lab Sample ID: CAL3

Compound: Ethanol      Review Code: GT  
CAS Number:





Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31435.D

Injection Date: 09-JUN-2021 16:47

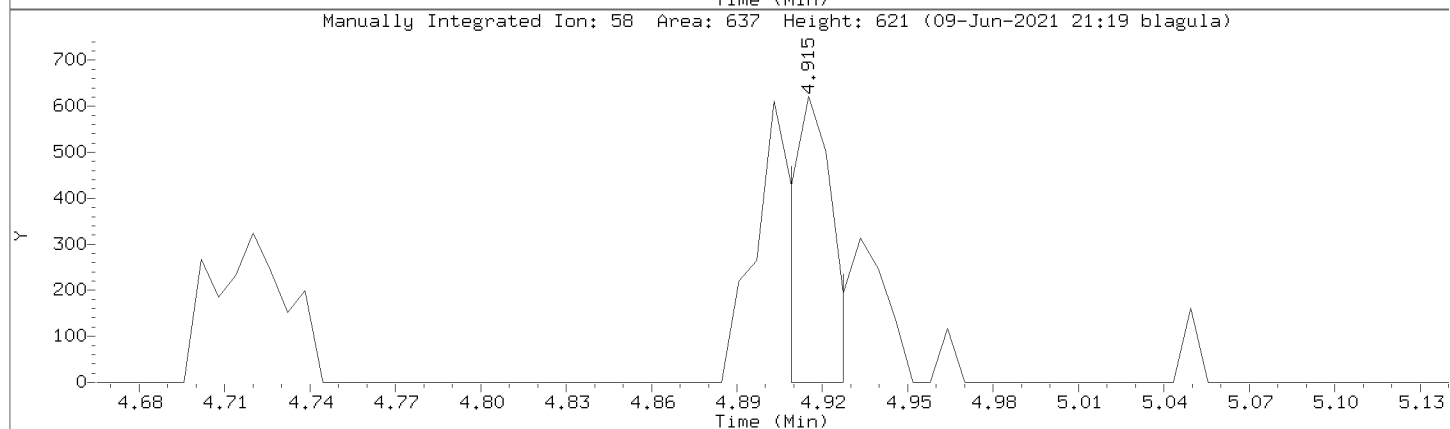
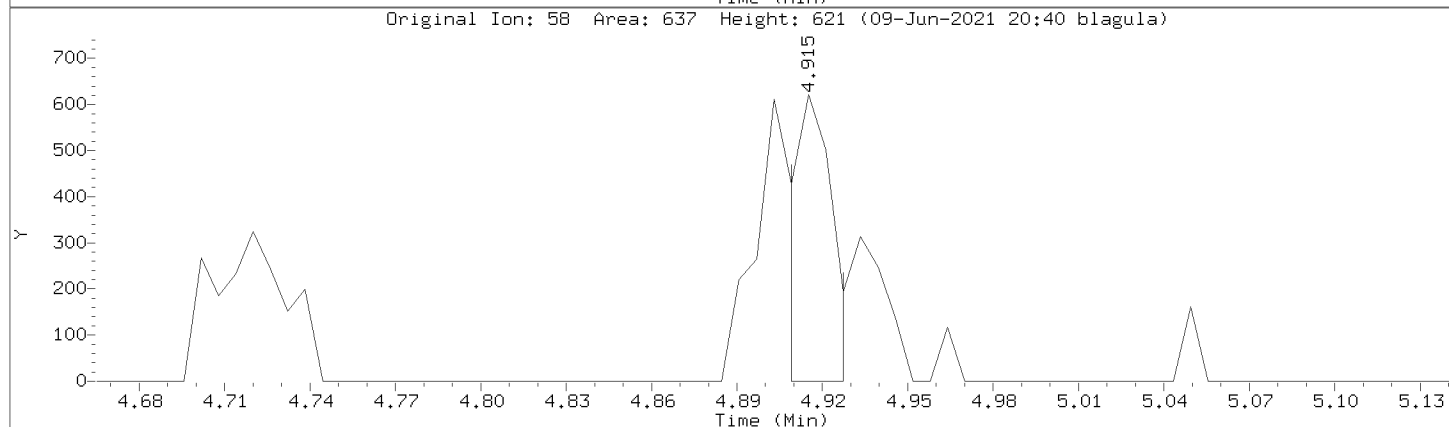
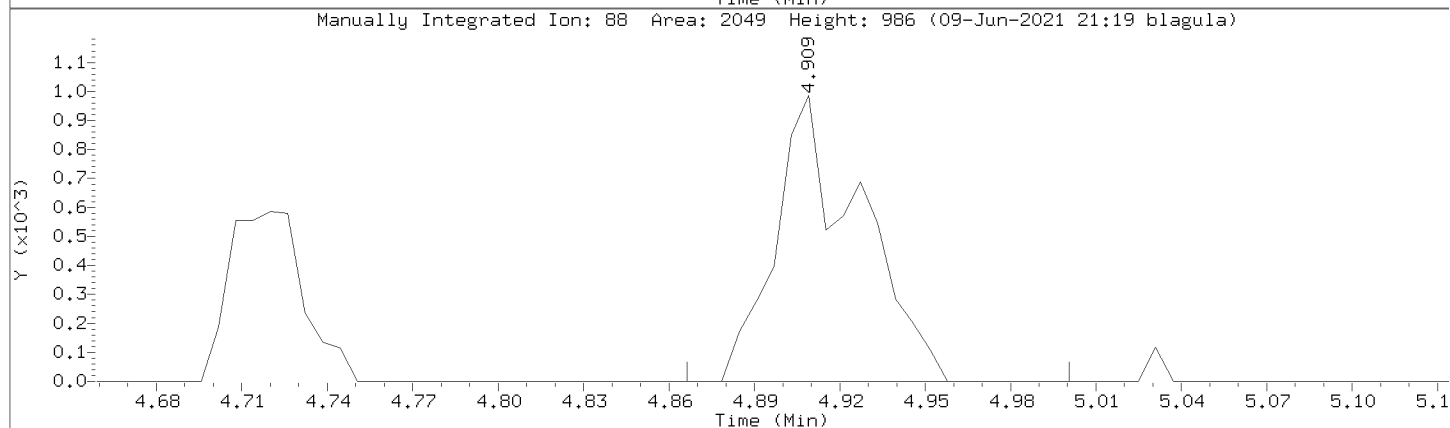
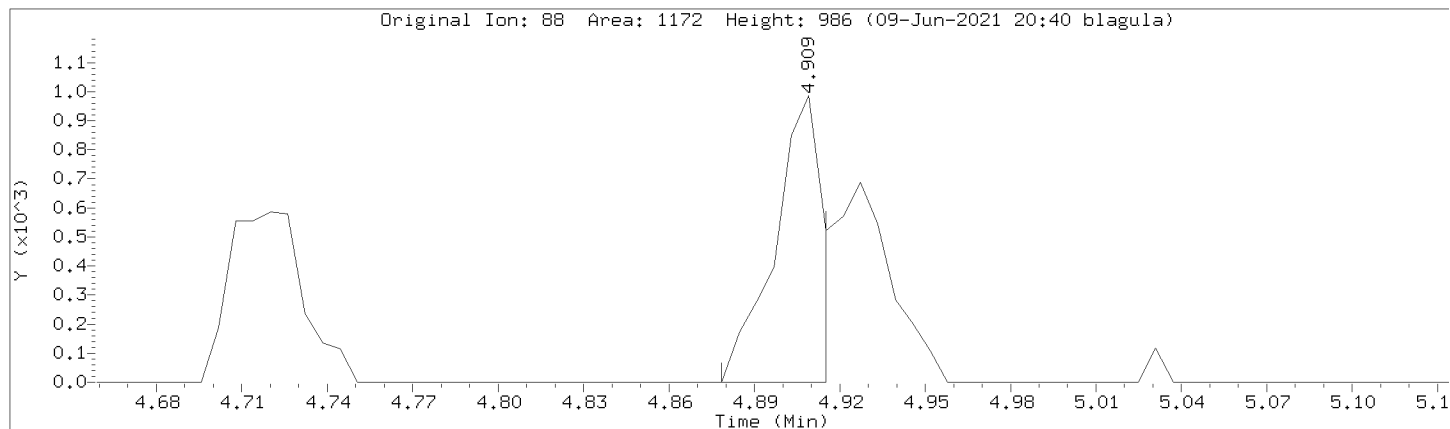
Instrument: 70msv8.i

Lab Sample ID: CAL3

Compound: 1,4-Dioxane (p-Dioxane)

Review Code: LT

CAS Number: 123-91-1

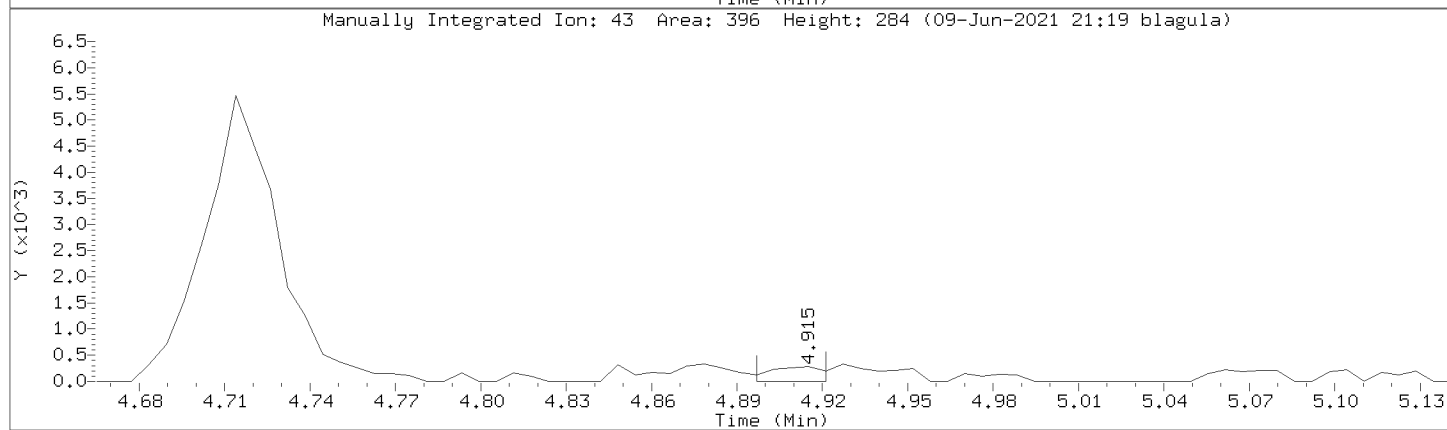
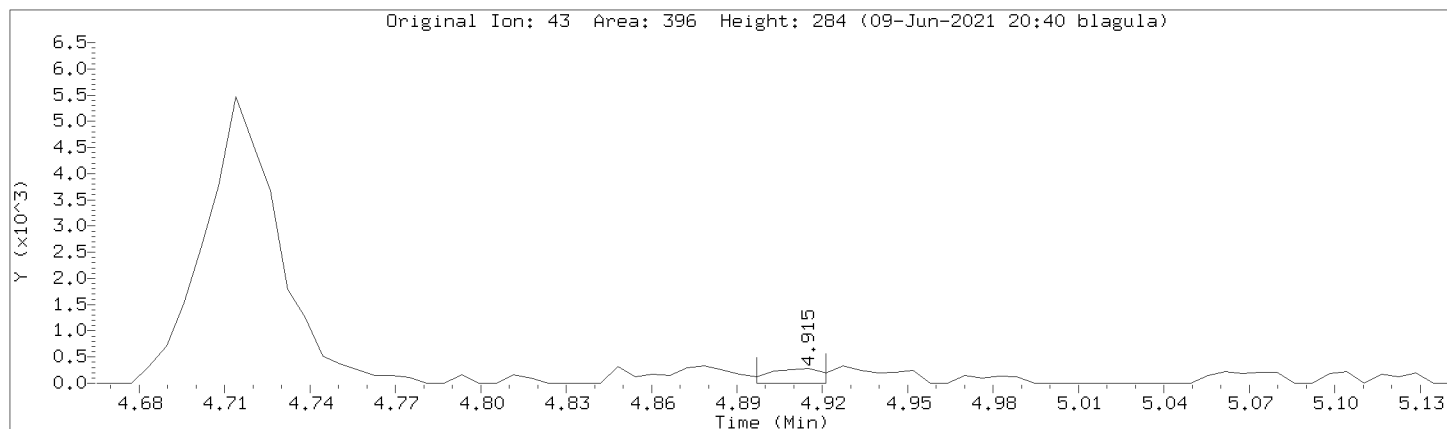


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Injection Date: 09-JUN-2021 16:47

Instrument: 70msv8.i

Lab Sample ID: CAL3



Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31436.D  
 Lab Smp Id: CAL4 Client Smp ID: CAL4  
 Inj Date : 09-JUN-2021 17:07 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : cal4, 113067:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\060921.b\060921\_8260W.m  
 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 17:07 Cal File: P31436.D  
 Als bottle: 14 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					REVIEW C	
			MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	34570	10.0000	9.28	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	18595	10.0000	9.75	
3 Dichlorodifluoromethane	85		0.971	0.970	(0.264)	36248	10.0000	9.22(Q)	
4 Chloromethane	50		1.105	1.104	(0.300)	37025	10.0000	8.93	
5 Vinyl chloride	62		1.172	1.172	(0.318)	42216	10.0000	9.50	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	33066	10.0000	9.68	
7 Acetaldehyde	44		1.263	1.264	(0.343)	3132	10.0000	9.91(Q)	
8 Bromomethane	94		1.391	1.391	(0.378)	11563	10.0000	8.83	
9 Chloroethane	64		1.458	1.464	(0.396)	22676	10.0000	9.39	
10 Dichlorofluoromethane	67		1.605	1.604	(0.436)	49445	10.0000	9.32	
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	41069	10.0000	9.35	
12 Ethanol	45		1.787	1.787	(0.485)	3046	250.000	225(QM)	GT
13 Diethyl ether (Ethyl ether)	59		1.800	1.799	(0.489)	24042	10.0000	9.42	
16 1,1,2-Trichlorotrifluoroethane	101		1.922	1.927	(0.522)	27953	10.0000	9.59	
14 Acrolein	56		1.934	1.934	(0.525)	2676	10.0000	8.14	
15 1,1-Dichloroethene	96		1.946	1.952	(0.528)	24768	10.0000	9.83	
17 Acetone	43		2.037	2.043	(0.553)	13262	10.0000	12.3	
18 Iodomethane	142		2.068	2.068	(0.561)	5425	10.0000	5.50	
19 2-Propanol	45		2.129	2.129	(0.578)	21935	250.000	239	
20 Carbon disulfide	76		2.086	2.086	(0.566)	79152	10.0000	9.15	
21 Allyl chloride	76		2.214	2.214	(0.601)	16805	10.0000	9.56	
22 Acetonitrile	41		2.281	2.281	(0.619)	15854	50.0000	47.6	
23 Methyl acetate	43		2.239	2.238	(0.608)	36999	10.0000	9.02	

Compounds	QUANT SIG		AMOUNTS					REVIEW C	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)		
24 Methylene Chloride	84	2.318	2.318	(0.629)	27937	10.0000	9.31		
25 tert-Butyl Alcohol	59	2.397	2.403	(0.651)	6987	50.0000	46.7		
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.667)	74157	10.0000	9.18		
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.671)	26974	10.0000	9.38		
26 Acrylonitrile	53	2.543	2.543	(0.691)	9138	10.0000	9.96		
30 n-Hexane	57	2.604	2.604	(0.707)	46951	10.0000	9.28		
29 Diisopropyl ether	45	2.793	2.799	(0.758)	95923	10.0000	9.26		
32 Vinyl acetate	43	2.836	2.836	(0.770)	54359	10.0000	8.81 (H)		
31 1,1-Dichloroethane	63	2.806	2.805	(0.762)	51351	10.0000	9.29		
33 Chloroprene	53	2.842	2.842	(0.772)	38765	10.0000	9.44		
34 Ethyl-tert-butyl ether	59	3.068	3.067	(0.833)	84026	10.0000	9.16		
36 2,2-Dichloropropane	77	3.226	3.226	(0.876)	32500	10.0000	9.13		
35 cis-1,2-Dichloroethene	96	3.257	3.256	(0.884)	30671	10.0000	9.54		
39 Ethyl acetate	61	3.257	3.256	(0.884)	46455	10.0000	9.36 (Q)		
37 2-Butanone (MEK)	43	3.293	3.299	(0.894)	19824	10.0000	9.77		
41 Bromochloromethane	128	3.452	3.452	(0.937)	13211	10.0000	9.49		
42 Tetrahydrofuran	42	3.458	3.464	(0.939)	7898	10.0000	8.86		
43 Chloroform	83	3.507	3.506	(0.952)	47243	10.0000	9.45		
38 Propionitrile	54	3.409	3.403	(0.926)	3212	10.0000	9.08		
46 Cyclohexane	56	3.592	3.592	(0.975)	62807	10.0000	9.43		
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	37882	10.0000	9.38		
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	344279	50.0000			
48 Carbon tetrachloride	117	3.714	3.714	(0.861)	33909	10.0000	9.56 (H)		
47 1,1-Dichloropropene	75	3.750	3.756	(0.870)	41973	10.0000	9.47		
55 2,2,4-Trimethylpentane	57	3.903	3.909	(1.060)	76192	10.0000	8.71		
51 Benzene	78	3.927	3.927	(0.911)	114118	10.0000	9.56		
40 Methacrylonitrile	67	3.488	3.488	(0.947)	10509	10.0000	9.34		
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.952	3.951	(0.917)	199459	50.0000	50.3		
56 tert-Amylmethyl ether	73	4.007	4.006	(1.088)	72462	10.0000	9.27		
52 1,2-Dichloroethane	62	4.019	4.019	(1.091)	33184	10.0000	9.16		
57 n-Heptane	43	4.080	4.079	(1.108)	43177	10.0000	8.62		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	596699	50.0000			
59 Trichloroethene	95	4.506	4.506	(1.045)	30016	10.0000	9.70		
60 Methylcyclohexane	83	4.610	4.610	(1.069)	58993	10.0000	9.64		
49 Isobutanol	43	3.903	3.903	(1.060)	16359	50.0000	41.6		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.280)	63218	10.0000	9.21		
61 1,2-Dichloropropane	63	4.775	4.774	(1.107)	30631	10.0000	9.30		
63 Methyl methacrylate	69	4.878	4.878	(1.131)	17231	10.0000	9.16		
64 1,4-Dioxane (p-Dioxane)	88	4.915	4.909	(1.140)	4506	250.000	237 (Q)		
62 Dibromomethane	93	4.890	4.884	(1.134)	15798	10.0000	9.50		
65 Bromodichloromethane	83	5.037	5.037	(1.168)	34272	10.0000	9.21		
66 2-Nitropropane	43	5.372	5.378	(1.246)	13537	10.0000	9.22 (Q)		
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	11313	10.0000	8.60		
68 cis-1,3-Dichloropropene	75	5.512	5.512	(1.279)	42684	10.0000	9.52		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	24803	10.0000	9.87		
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	736195	50.0000	50.4		
71 Toluene	91	5.799	5.799	(1.345)	126535	10.0000	9.45		
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	37337	25.0000	22.2		
74 trans-1,3-Dichloropropene	75	6.146	6.146	(1.426)	33594	10.0000	8.86		
75 Ethyl methacrylate	69	6.207	6.201	(1.440)	31862	10.0000	9.19		
76 1,1,2-Trichloroethane	83	6.348	6.347	(1.472)	21179	10.0000	9.29		
77 Tetrachloroethene	166	6.366	6.360	(0.856)	30579	10.0000	10.2		
78 1,3-Dichloropropane	76	6.536	6.542	(0.879)	41797	10.0000	9.21		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	6.628	6.634	(0.892)	19357	10.0000	10.3	
73 n-Octane	43	5.860	5.860	(1.359)	36702	10.0000	8.28(Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	7557	10.0000	9.89(Q)	
80 Dibromochloromethane	129	6.750	6.750	(0.908)	22061	10.0000	9.09	
82 1,2-Dibromoethane (EDB)	107	6.884	6.884	(1.597)	22468	10.0000	9.50	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.432	(1.000)	301281	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	75977	10.0000	9.36	
86 Ethylbenzene	106	7.597	7.603	(1.022)	45610	10.0000	9.67	
85 1,1,1,2-Tetrachloroethane	131	7.616	7.609	(1.025)	23764	10.0000	9.46	
88 n-Nonane	43	7.762	7.768	(1.044)	25515	10.0000	8.03(Q)	
87 m&p-Xylene	106	7.780	7.780	(1.047)	107512	20.0000	19.0	
89 o-Xylene	106	8.365	8.365	(1.125)	50495	10.0000	9.34	
90 Styrene	104	8.408	8.408	(1.131)	84597	10.0000	9.55	
91 Bromoform	173	8.652	8.652	(1.164)	12162	10.0000	9.01	
92 Isopropylbenzene (Cumene)	105	8.817	8.816	(0.875)	136826	10.0000	9.67	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	268696	50.0000	50.2	
94 Bromobenzene	156	9.146	9.146	(0.908)	29343	10.0000	9.38	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	29059	10.0000	9.67	
98 n-Propylbenzene	91	9.255	9.255	(0.919)	171441	10.0000	9.59	
96 1,2,3-Trichloropropane	110	9.274	9.280	(0.921)	8057	10.0000	9.49(Q)	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	5837	10.0000	9.51(Q)	
103 n-Decane	43	9.420	9.420	(1.267)	21654	10.0000	8.78(Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	96539	10.0000	9.20	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	142036	10.0000	9.59	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	109893	10.0000	9.53	
102 4-Chlorotoluene	91	9.457	9.456	(0.939)	112478	10.0000	9.70	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	92194	10.0000	9.50	
105 Pentachloroethane	167	9.755	9.755	(0.969)	13867	10.0000	8.39	
106 1,2,4-Trimethylbenzene	105	9.774	9.773	(0.970)	110997	10.0000	9.57	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	141548	10.0000	9.42	
109 d-Limonene	136	9.975	9.975	(1.342)	4613	10.0000	9.20	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	110843	10.0000	9.14	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	57809	10.0000	9.75	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	259200	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	58189	10.0000	9.53	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	111213	10.0000	9.37	
114 Benzyl chloride	91	10.225	10.225	(1.015)	25920	10.0000	7.96	
115 trans-Decalin	138	10.292	10.292	(1.022)	16546	10.0000	8.41	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	64076	10.0000	9.34	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	129052	10.0000	9.34	
119 n-Undecane	43	10.444	10.444	(1.037)	18131	10.0000	9.87(Q)	
118 1,2-Dichlorobenzene	146	10.408	10.408	(1.033)	52398	10.0000	9.60	
120 cis-Decalin	138	10.816	10.816	(1.074)	12211	10.0000	8.23	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	88399	10.0000	9.26	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	4201	10.0000	9.89	
123 n-Dodecane	43	11.584	11.590	(1.150)	15691	10.0000	12.0(Q)	
124 1,2,4-Trichlorobenzene	180	12.188	12.194	(1.210)	25969	10.0000	9.59	
125 Hexachloro-1,3-butadiene	225	12.383	12.377	(1.229)	11274	10.0000	8.84	
126 Naphthalene	128	12.560	12.560	(1.247)	57938	10.0000	9.52	
127 1,2,3-Trichlorobenzene	180	12.956	12.956	(1.286)	19109	10.0000	9.18	

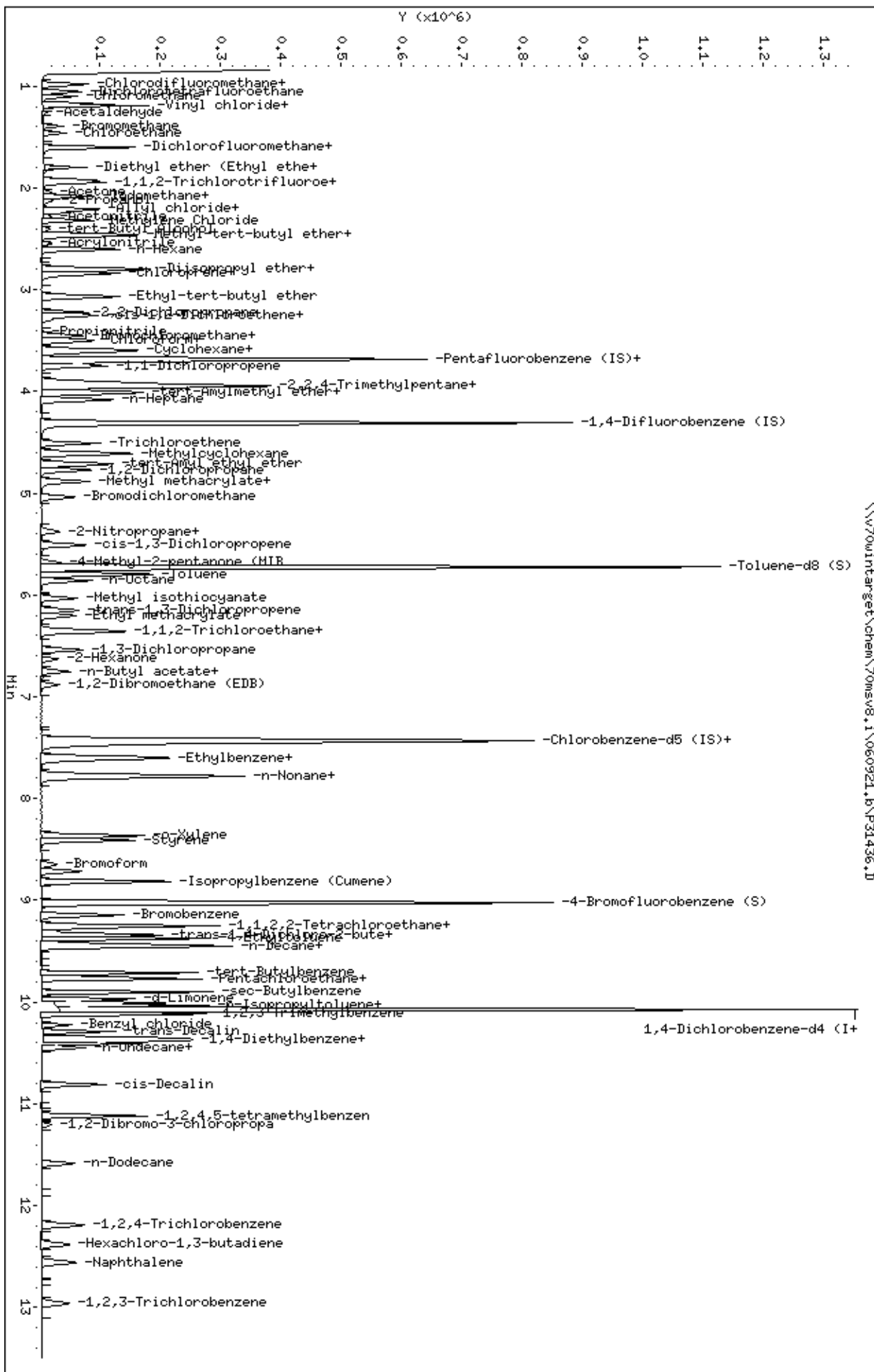
Data File: \\v70wintarget\chem\70msv8.i\060921.b\P31436.D  
Report Date: 09-Jun-2021 21:21

#### QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.  
D - User disabled compound identification.

#### Review Codes Legend

:  
GT: Indicates that the peak in question was inappropriately  
integrated to an area greater than it should be (e.g., Peak  
tailing).



Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31436.D

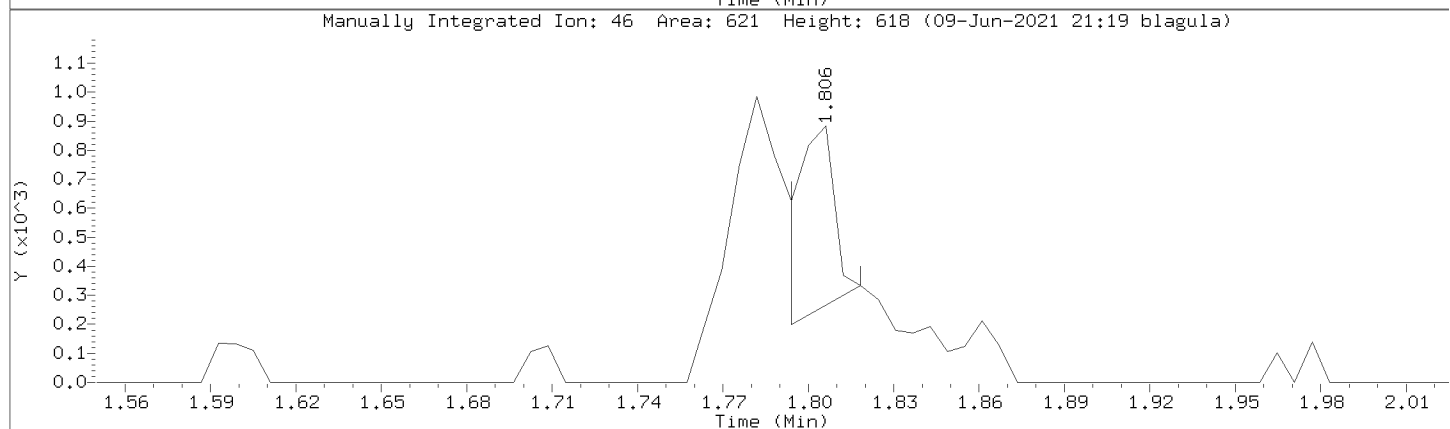
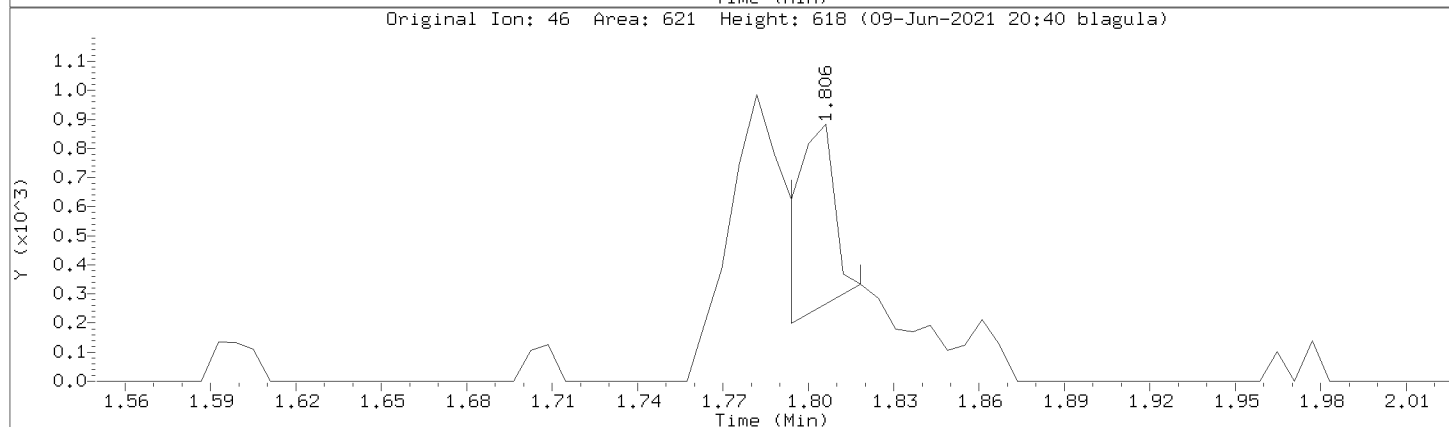
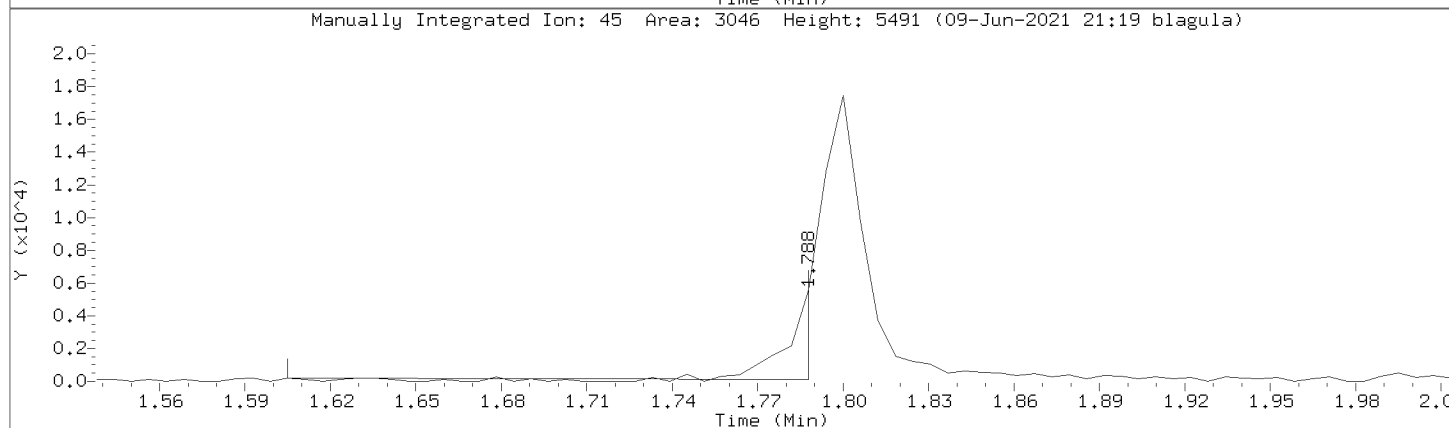
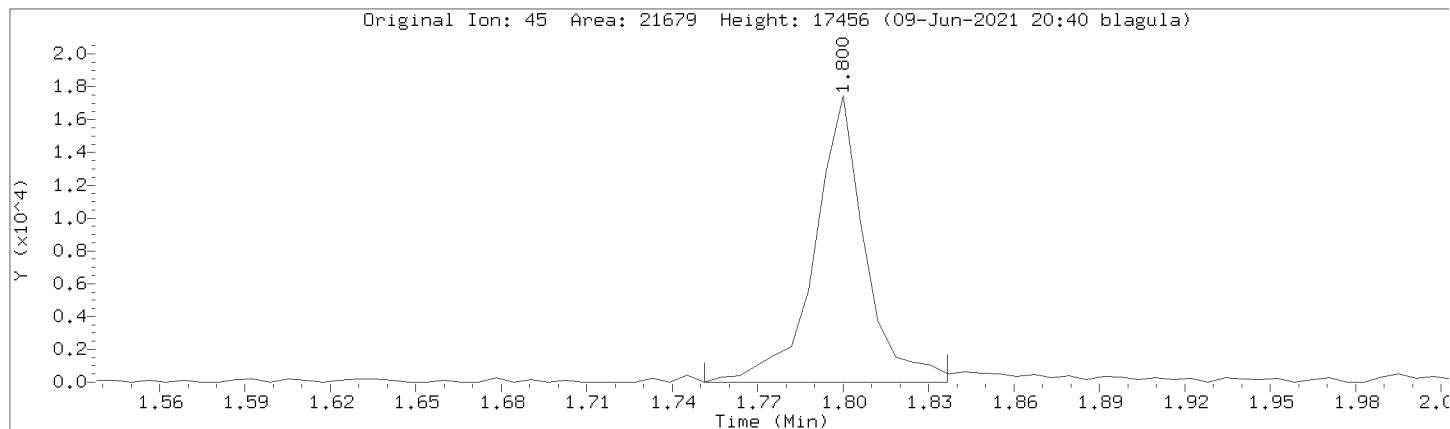
Injection Date: 09-JUN-2021 17:07

Instrument: 70msv8.i

Lab Sample ID: CAL4

Compound: Ethanol Review Code: GT

CAS Number:





Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31437.D  
 Lab Smp Id: CAL5 Client Smp ID: CAL5  
 Inj Date : 09-JUN-2021 17:26 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : cal5, 113068:1  
 Misc Info : 11823,  
 Comment :  
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 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 17:26 Cal File: P31437.D  
 Als bottle: 15 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
							CAL-AMT ( ug/L)	ON-COL ( ug/L)	
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	75874	20.0000	20.6	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	37708	20.0000	20.0	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.264)	74897	20.0000	19.3(Q)	
4 Chloromethane	50		1.104	1.104	(0.300)	82298	20.0000	20.1	
5 Vinyl chloride	62		1.172	1.172	(0.318)	88506	20.0000	20.2	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	67578	20.0000	20.0	
7 Acetaldehyde	44		1.263	1.264	(0.343)	5893	20.0000	18.9	
8 Bromomethane	94		1.391	1.391	(0.378)	23816	20.0000	18.4	
9 Chloroethane	64		1.464	1.464	(0.398)	48600	20.0000	20.4	
10 Dichlorofluoromethane	67		1.604	1.604	(0.436)	104955	20.0000	20.0	
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	89819	20.0000	20.7	
12 Ethanol	45		1.787	1.787	(0.485)	6367	500.000	554(QM)	GT
13 Diethyl ether (Ethyl ether)	59		1.799	1.799	(0.489)	51192	20.0000	20.3	
16 1,1,2-Trichlorotrifluoroethane	101		1.927	1.927	(0.523)	58544	20.0000	20.3	
14 Acrolein	56		1.934	1.934	(0.525)	5818	20.0000	17.9	
15 1,1-Dichloroethene	96		1.952	1.952	(0.530)	50167	20.0000	20.2	
17 Acetone	43		2.043	2.043	(0.555)	22436	20.0000	21.0	
18 Iodomethane	142		2.068	2.068	(0.561)	18387	20.0000	18.8	
19 2-Propanol	45		2.129	2.129	(0.578)	42809	500.000	471(Q)	
20 Carbon disulfide	76		2.086	2.086	(0.566)	172227	20.0000	20.2	
21 Allyl chloride	76		2.214	2.214	(0.601)	35674	20.0000	20.5	
22 Acetonitrile	41		2.281	2.281	(0.619)	33339	100.000	101	
23 Methyl acetate	43		2.238	2.238	(0.608)	78287	20.0000	19.3	

Compounds	QUANT SIG		AMOUNTS					REVIEW C	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)		
24 Methylene Chloride	84	2.318	2.318	(0.629)	58694	20.0000	19.8		
25 tert-Butyl Alcohol	59	2.403	2.403	(0.652)	13801	100.000	93.3		
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.667)	158139	20.0000	19.8		
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.671)	56901	20.0000	20.0		
26 Acrylonitrile	53	2.549	2.543	(0.692)	17935	20.0000	19.8		
30 n-Hexane	57	2.604	2.604	(0.707)	92946	20.0000	18.6		
29 Diisopropyl ether	45	2.793	2.799	(0.758)	209336	20.0000	20.4		
32 Vinyl acetate	43	2.836	2.836	(0.770)	118825	20.0000	19.5 (H)		
31 1,1-Dichloroethane	63	2.805	2.805	(0.762)	112531	20.0000	20.6		
33 Chloroprene	53	2.842	2.842	(0.772)	86542	20.0000	21.3		
34 Ethyl-tert-butyl ether	59	3.067	3.067	(0.833)	184561	20.0000	20.4		
36 2,2-Dichloropropane	77	3.226	3.226	(0.876)	69976	20.0000	19.9		
35 cis-1,2-Dichloroethene	96	3.256	3.256	(0.884)	64825	20.0000	20.4		
39 Ethyl acetate	61	3.256	3.256	(0.884)	91003	20.0000	18.6		
37 2-Butanone (MEK)	43	3.293	3.299	(0.894)	37692	20.0000	18.8		
41 Bromochloromethane	128	3.452	3.452	(0.937)	28391	20.0000	20.6		
42 Tetrahydrofuran	42	3.458	3.464	(0.939)	16759	20.0000	19.0		
43 Chloroform	83	3.506	3.506	(0.952)	98780	20.0000	20.0		
38 Propionitrile	54	3.403	3.403	(0.924)	6565	20.0000	18.8		
46 Cyclohexane	56	3.592	3.592	(0.975)	130904	20.0000	19.9		
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	81310	20.0000	20.1		
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	340171	50.0000			
48 Carbon tetrachloride	117	3.714	3.714	(0.861)	75223	20.0000	21.1 (H)		
47 1,1-Dichloropropene	75	3.750	3.756	(0.870)	86258	20.0000	19.4		
55 2,2,4-Trimethylpentane	57	3.903	3.909	(1.060)	164022	20.0000	19.0		
51 Benzene	78	3.927	3.927	(0.911)	246045	20.0000	20.6		
40 Methacrylonitrile	67	3.488	3.488	(0.947)	21690	20.0000	19.5		
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.951	3.951	(0.917)	195910	50.0000	49.3		
56 tert-Amylmethyl ether	73	4.000	4.006	(1.086)	158569	20.0000	20.5		
52 1,2-Dichloroethane	62	4.019	4.019	(1.091)	71967	20.0000	20.1		
57 n-Heptane	43	4.079	4.079	(1.108)	91016	20.0000	18.4		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	598479	50.0000			
59 Trichloroethene	95	4.506	4.506	(1.045)	61438	20.0000	19.8		
60 Methylcyclohexane	83	4.610	4.610	(1.069)	120108	20.0000	19.6		
49 Isobutanol	43	3.909	3.903	(1.061)	36216	100.000	93.1		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59	4.713	4.714	(1.280)	137290	20.0000	20.2		
61 1,2-Dichloropropane	63	4.774	4.774	(1.107)	66387	20.0000	20.1		
63 Methyl methacrylate	69	4.878	4.878	(1.131)	38227	20.0000	20.3		
64 1,4-Dioxane (p-Dioxane)	88	4.909	4.909	(1.139)	9277	500.000	486 (Q)		
62 Dibromomethane	93	4.890	4.884	(1.134)	33188	20.0000	19.9		
65 Bromodichloromethane	83	5.037	5.037	(1.168)	73751	20.0000	19.8		
66 2-Nitropropane	43	5.372	5.378	(1.246)	27152	20.0000	18.4		
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	24567	20.0000	18.6		
68 cis-1,3-Dichloropropene	75	5.506	5.512	(1.277)	96092	20.0000	21.4		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	48088	20.0000	19.1		
\$ 70 Toluene-d8 (S)	98	5.725	5.726	(0.771)	723298	50.0000	49.6		
71 Toluene	91	5.799	5.799	(1.345)	272945	20.0000	20.3		
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	81317	50.0000	48.3		
74 trans-1,3-Dichloropropene	75	6.152	6.146	(1.427)	76133	20.0000	20.0		
75 Ethyl methacrylate	69	6.207	6.201	(1.440)	69164	20.0000	19.9		
76 1,1,2-Trichloroethane	83	6.347	6.347	(1.472)	45071	20.0000	19.7		
77 Tetrachloroethene	166	6.360	6.360	(0.856)	59975	20.0000	20.0		
78 1,3-Dichloropropane	76	6.542	6.542	(0.881)	91064	20.0000	20.1		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	6.634	6.634	(0.893)	36618	20.0000	19.6	
73 n-Octane	43	5.860	5.860	(1.359)	79837	20.0000	18.0(Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	14097	20.0000	18.4	
80 Dibromochloromethane	129	6.750	6.750	(0.909)	47300	20.0000	19.5	
82 1,2-Dibromoethane (EDB)	107	6.884	6.884	(1.597)	47867	20.0000	20.2	
* 83 Chlorobenzene-d5 (IS)	82	7.426	7.432	(1.000)	300657	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.006)	163876	20.0000	20.2	
86 Ethylbenzene	106	7.597	7.603	(1.023)	91021	20.0000	19.3	
85 1,1,1,2-Tetrachloroethane	131	7.609	7.609	(1.025)	49541	20.0000	19.8	
88 n-Nonane	43	7.768	7.768	(1.046)	57968	20.0000	18.3(Q)	
87 m&p-Xylene	106	7.780	7.780	(1.048)	228093	40.0000	40.3	
89 o-Xylene	106	8.365	8.365	(1.126)	107569	20.0000	19.9	
90 Styrene	104	8.414	8.408	(1.133)	177281	20.0000	20.0	
91 Bromoform	173	8.646	8.652	(1.164)	26251	20.0000	19.5	
92 Isopropylbenzene (Cumene)	105	8.816	8.816	(0.875)	284799	20.0000	20.1	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.215)	266970	50.0000	49.9	
94 Bromobenzene	156	9.146	9.146	(0.908)	64140	20.0000	20.4	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	60157	20.0000	20.0	
98 n-Propylbenzene	91	9.255	9.255	(0.919)	354609	20.0000	19.8	
96 1,2,3-Trichloropropane	110	9.274	9.280	(0.921)	16150	20.0000	19.0(Q)	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	11903	20.0000	19.4	
103 n-Decane	43	9.420	9.420	(1.268)	46764	20.0000	19.0(Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	213932	20.0000	20.3	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	298154	20.0000	20.1	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	230401	20.0000	19.9	
102 4-Chlorotoluene	91	9.456	9.456	(0.939)	232329	20.0000	20.0	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	191233	20.0000	19.7	
105 Pentachloroethane	167	9.755	9.755	(0.969)	32269	20.0000	19.5	
106 1,2,4-Trimethylbenzene	105	9.767	9.773	(0.970)	230342	20.0000	19.8	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	290930	20.0000	19.3	
109 d-Limonene	136	9.969	9.975	(1.342)	9250	20.0000	18.5	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	236193	20.0000	19.4	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	120538	20.0000	20.3	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	259803	50.0000		
112 1,4-Dichlorobenzene	146	10.090	10.091	(1.002)	121185	20.0000	19.8	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	236434	20.0000	19.9	
114 Benzyl chloride	91	10.225	10.225	(1.015)	60668	20.0000	18.6	
115 trans-Decalin	138	10.292	10.292	(1.022)	36887	20.0000	18.7	
116 1,4-Diethylbenzene	119	10.359	10.353	(1.028)	131900	20.0000	19.2	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	267902	20.0000	19.3	
119 n-Undecane	43	10.450	10.444	(1.038)	41684	20.0000	22.6(Q)	
118 1,2-Dichlorobenzene	146	10.408	10.408	(1.033)	109562	20.0000	20.0	
120 cis-Decalin	138	10.810	10.816	(1.073)	27662	20.0000	18.6	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	185325	20.0000	19.4	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	7963	20.0000	18.7	
123 n-Dodecane	43	11.584	11.590	(1.150)	35486	20.0000	27.0(Q)	
124 1,2,4-Trichlorobenzene	180	12.194	12.194	(1.211)	52737	20.0000	19.4	
125 Hexachloro-1,3-butadiene	225	12.377	12.377	(1.229)	23409	20.0000	18.3	
126 Naphthalene	128	12.560	12.560	(1.247)	119263	20.0000	19.6	
127 1,2,3-Trichlorobenzene	180	12.956	12.956	(1.286)	40735	20.0000	19.5	

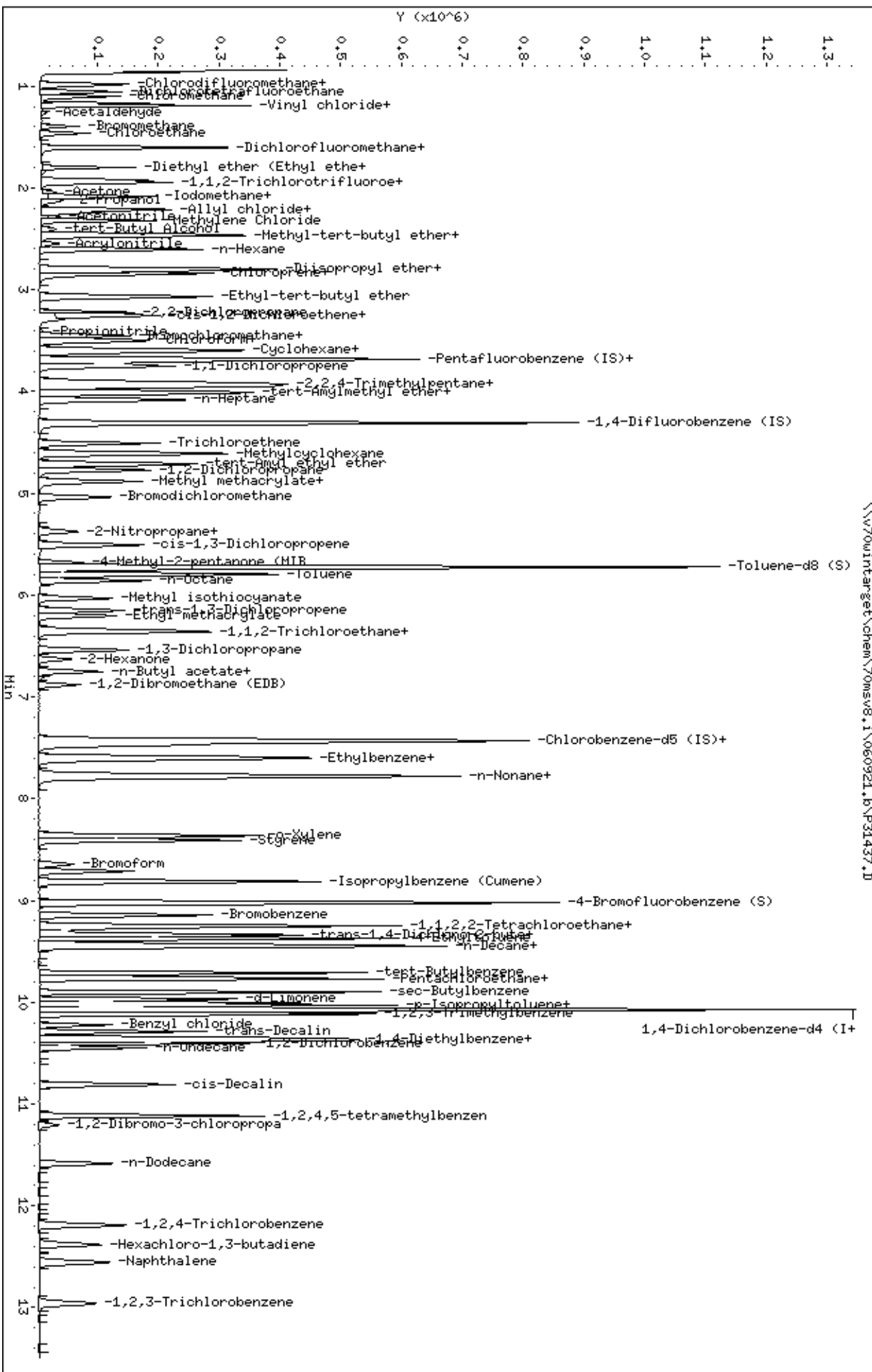
Data File: \\v70wintarget\chem\70msv8.i\060921.b\P31437.D  
Report Date: 09-Jun-2021 21:21

#### QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.  
D - User disabled compound identification.

#### Review Codes Legend

:  
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).



Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31437.D

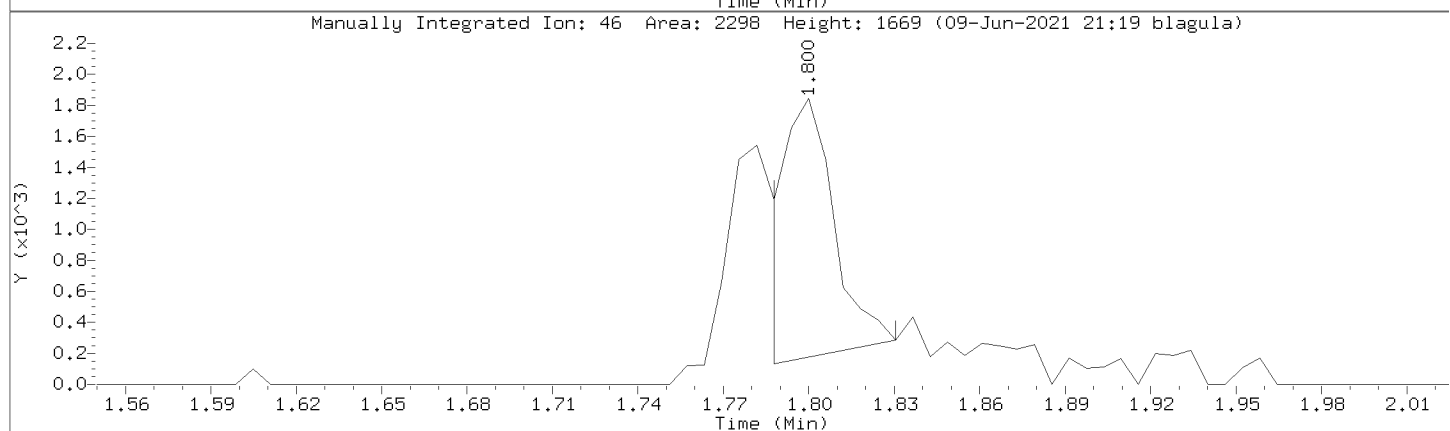
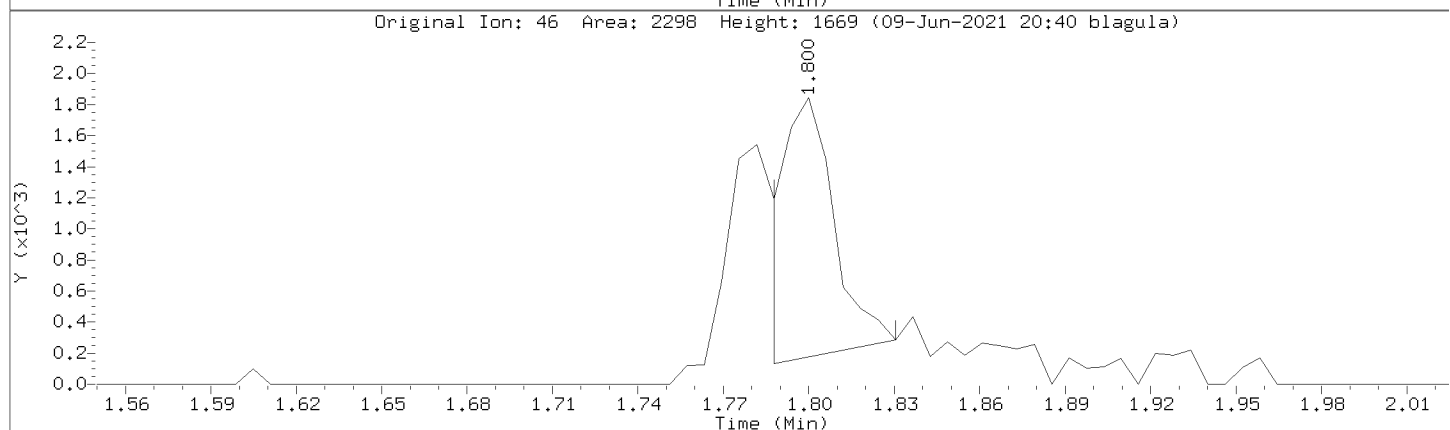
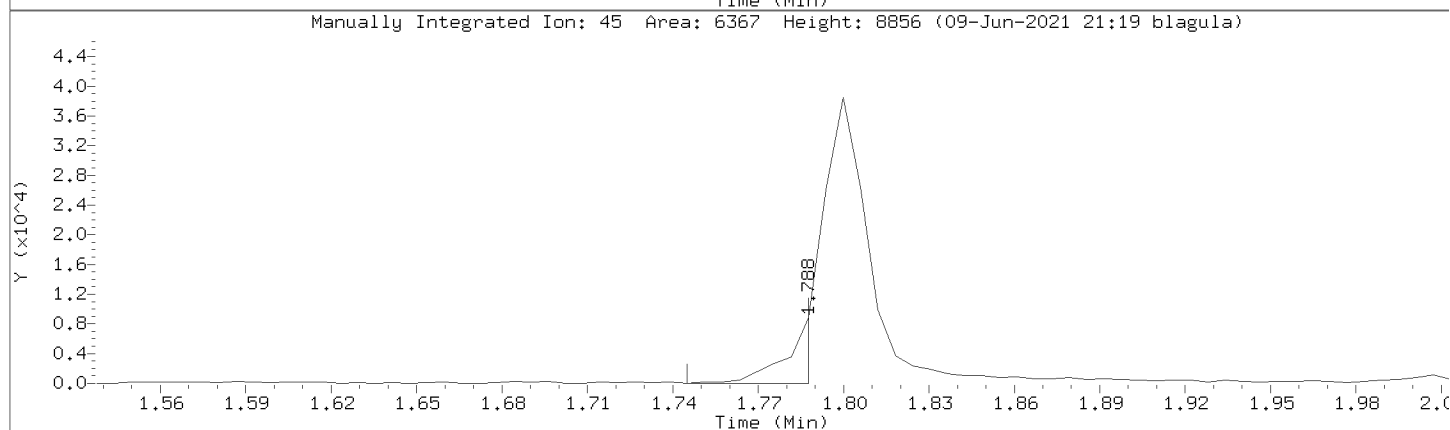
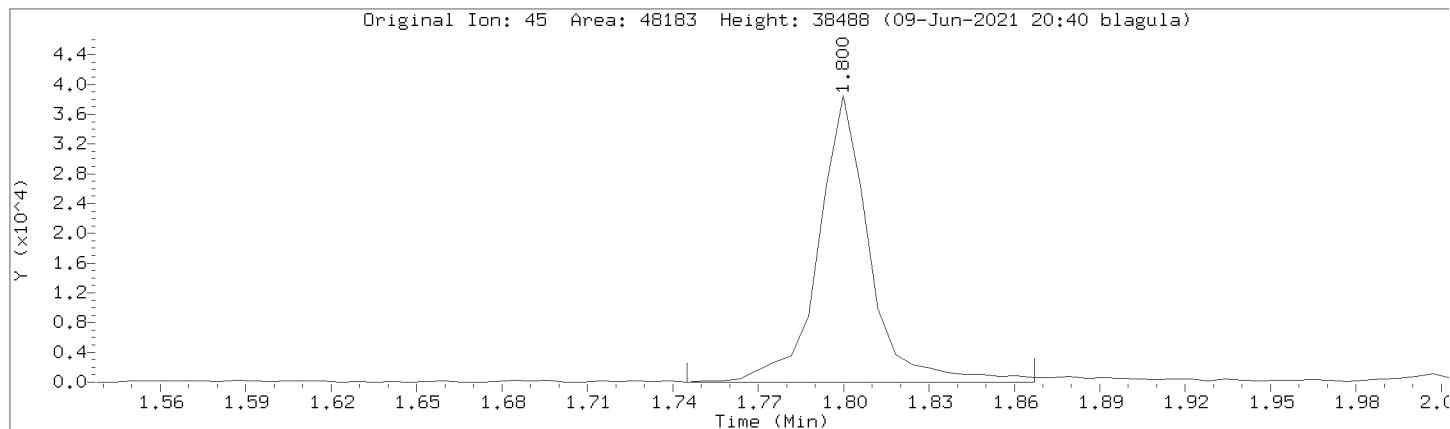
Injection Date: 09-JUN-2021 17:26

Instrument: 70msv8.i

Lab Sample ID: CAL5

Compound: Ethanol Review Code: GT

CAS Number:



Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31438.D  
 Lab Smp Id: CAL6 Client Smp ID: CAL6  
 Inj Date : 09-JUN-2021 17:45 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : cal6, 113069:1  
 Misc Info : 11823,  
 Comment :  
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 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 17:45 Cal File: P31438.D  
 Als bottle: 16 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					REVIEW C	
			MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	188385	50.0000	51.0	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	99724	50.0000	52.8	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.264)	200703	50.0000	51.6(Q)	
4 Chloromethane	50		1.105	1.104	(0.300)	209991	50.0000	51.1	
5 Vinyl chloride	62		1.172	1.172	(0.318)	222702	50.0000	50.6	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	172229	50.0000	50.9	
7 Acetaldehyde	44		1.263	1.264	(0.343)	15935	50.0000	50.9	
8 Bromomethane	94		1.391	1.391	(0.378)	60271	50.0000	46.4	
9 Chloroethane	64		1.458	1.464	(0.396)	115616	50.0000	48.4	
10 Dichlorofluoromethane	67		1.605	1.604	(0.436)	264220	50.0000	50.3	
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	219084	50.0000	50.4	
12 Ethanol	45		1.787	1.787	(0.485)	17250	1250.00	1500(M)	GT
13 Diethyl ether (Ethyl ether)	59		1.800	1.799	(0.489)	129131	50.0000	51.1	
16 1,1,2-Trichlorotrifluoroethane	101		1.928	1.927	(0.523)	147402	50.0000	51.1	
14 Acrolein	56		1.934	1.934	(0.525)	15497	50.0000	47.6	
15 1,1-Dichloroethene	96		1.952	1.952	(0.530)	126280	50.0000	50.6	
17 Acetone	43		2.037	2.043	(0.553)	42120	50.0000	39.3	
18 Iodomethane	142		2.068	2.068	(0.561)	71432	50.0000	73.1	
19 2-Propanol	45		2.129	2.129	(0.578)	119453	1250.00	1310	
20 Carbon disulfide	76		2.086	2.086	(0.566)	431346	50.0000	50.4	
21 Allyl chloride	76		2.214	2.214	(0.601)	90745	50.0000	52.1	
22 Acetonitrile	41		2.281	2.281	(0.619)	83541	250.000	253	
23 Methyl acetate	43		2.239	2.238	(0.608)	206726	50.0000	50.8	

Compounds	QUANT SIG		AMOUNTS					REVIEW C	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)		
24 Methylene Chloride	84	2.318	2.318	(0.629)	146334	50.0000	49.2		
25 tert-Butyl Alcohol	59	2.403	2.403	(0.652)	36290	250.000	245		
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.667)	409206	50.0000	51.1		
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.671)	141767	50.0000	49.8		
26 Acrylonitrile	53	2.549	2.543	(0.692)	46356	50.0000	51.0		
30 n-Hexane	57	2.604	2.604	(0.707)	255593	50.0000	51.0		
29 Diisopropyl ether	45	2.793	2.799	(0.758)	529781	50.0000	51.6		
32 Vinyl acetate	43	2.836	2.836	(0.770)	313221	50.0000	51.2 (H)		
31 1,1-Dichloroethane	63	2.805	2.805	(0.762)	279832	50.0000	51.1		
33 Chloroprene	53	2.842	2.842	(0.772)	206889	50.0000	50.8		
34 Ethyl-tert-butyl ether	59	3.068	3.067	(0.833)	472425	50.0000	52.0		
36 2,2-Dichloropropane	77	3.226	3.226	(0.876)	177861	50.0000	50.5		
35 cis-1,2-Dichloroethene	96	3.257	3.256	(0.884)	165707	50.0000	52.1		
39 Ethyl acetate	61	3.257	3.256	(0.884)	245001	50.0000	49.8		
37 2-Butanone (MEK)	43	3.293	3.299	(0.894)	89751	50.0000	44.6		
41 Bromochloromethane	128	3.452	3.452	(0.937)	65856	50.0000	47.8		
42 Tetrahydrofuran	42	3.458	3.464	(0.939)	41564	50.0000	47.0		
43 Chloroform	83	3.507	3.506	(0.952)	248437	50.0000	50.2		
38 Propionitrile	54	3.403	3.403	(0.924)	17241	50.0000	49.2		
46 Cyclohexane	56	3.592	3.592	(0.975)	329318	50.0000	49.9		
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	203812	50.0000	50.4		
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	341026	50.0000			
48 Carbon tetrachloride	117	3.720	3.714	(0.863)	187542	50.0000	52.8 (H)		
47 1,1-Dichloropropene	75	3.750	3.756	(0.870)	219668	50.0000	49.5		
55 2,2,4-Trimethylpentane	57	3.903	3.909	(1.060)	459284	50.0000	53.0		
51 Benzene	78	3.927	3.927	(0.911)	609225	50.0000	51.0		
40 Methacrylonitrile	67	3.488	3.488	(0.947)	58915	50.0000	52.9		
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.952	3.951	(0.917)	198518	50.0000	50.0		
56 tert-Amylmethyl ether	73	4.000	4.006	(1.086)	406275	50.0000	52.5		
52 1,2-Dichloroethane	62	4.019	4.019	(1.091)	182472	50.0000	50.8		
57 n-Heptane	43	4.086	4.079	(1.109)	259300	50.0000	52.3		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	597502	50.0000			
59 Trichloroethene	95	4.506	4.506	(1.045)	155970	50.0000	50.3		
60 Methylcyclohexane	83	4.610	4.610	(1.069)	313007	50.0000	51.1		
49 Isobutanol	43	3.909	3.903	(1.061)	99123	250.000	254		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.280)	351747	50.0000	51.7		
61 1,2-Dichloropropane	63	4.775	4.774	(1.107)	171021	50.0000	51.9		
63 Methyl methacrylate	69	4.878	4.878	(1.131)	98121	50.0000	52.1		
64 1,4-Dioxane (p-Dioxane)	88	4.903	4.909	(1.137)	23903	1250.00	1250		
62 Dibromomethane	93	4.890	4.884	(1.134)	87128	50.0000	52.3		
65 Bromodichloromethane	83	5.043	5.037	(1.170)	190412	50.0000	51.1		
66 2-Nitropropane	43	5.378	5.378	(1.247)	70630	50.0000	48.0		
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	64453	50.0000	48.9		
68 cis-1,3-Dichloropropene	75	5.506	5.512	(1.277)	241968	50.0000	53.9		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	126306	50.0000	50.2		
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	731472	50.0000	50.1		
71 Toluene	91	5.799	5.799	(1.345)	681344	50.0000	50.8		
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	225746	125.000	134		
74 trans-1,3-Dichloropropene	75	6.152	6.146	(1.427)	201344	50.0000	53.0		
75 Ethyl methacrylate	69	6.201	6.201	(1.438)	180137	50.0000	51.9		
76 1,1,2-Trichloroethane	83	6.347	6.347	(1.472)	115437	50.0000	50.6		
77 Tetrachloroethene	166	6.360	6.360	(0.856)	147975	50.0000	49.4		
78 1,3-Dichloropropane	76	6.543	6.542	(0.880)	231647	50.0000	51.0		



Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	6.628	6.634	(0.892)	84267	50.0000	45.0	
73 n-Octane	43	5.860	5.860	(1.359)	223643	50.0000	50.4 (Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	38275	50.0000	50.0	
80 Dibromochloromethane	129	6.750	6.750	(0.908)	128283	50.0000	52.8	
82 1,2-Dibromoethane (EDB)	107	6.884	6.884	(1.597)	122546	50.0000	51.7	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.432	(1.000)	301366	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	407969	50.0000	50.3	
86 Ethylbenzene	106	7.597	7.603	(1.022)	238113	50.0000	50.5	
85 1,1,1,2-Tetrachloroethane	131	7.609	7.609	(1.024)	131045	50.0000	52.1	
88 n-Nonane	43	7.762	7.768	(1.044)	154217	50.0000	48.5 (Q)	
87 m&p-Xylene	106	7.780	7.780	(1.047)	573757	100.000	101	
89 o-Xylene	106	8.365	8.365	(1.125)	278831	50.0000	51.6	
90 Styrene	104	8.408	8.408	(1.131)	451422	50.0000	50.9	
91 Bromoform	173	8.646	8.652	(1.163)	71734	50.0000	53.1	
92 Isopropylbenzene (Cumene)	105	8.817	8.816	(0.875)	731811	50.0000	50.1	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	269028	50.0000	50.2	
94 Bromobenzene	156	9.146	9.146	(0.908)	159533	50.0000	49.4	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	155647	50.0000	50.2	
98 n-Propylbenzene	91	9.255	9.255	(0.919)	923254	50.0000	50.1	
96 1,2,3-Trichloropropane	110	9.274	9.280	(0.921)	40981	50.0000	46.8	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	32868	50.0000	51.9	
103 n-Decane	43	9.420	9.420	(1.267)	120874	50.0000	49.0 (Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	524206	50.0000	48.4	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	759757	50.0000	49.7	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	594895	50.0000	50.0	
102 4-Chlorotoluene	91	9.457	9.456	(0.939)	592296	50.0000	49.5	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	508816	50.0000	50.8	
105 Pentachloroethane	167	9.755	9.755	(0.969)	90945	50.0000	53.3	
106 1,2,4-Trimethylbenzene	105	9.774	9.773	(0.970)	600712	50.0000	50.2	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	782329	50.0000	50.5	
109 d-Limonene	136	9.969	9.975	(1.341)	25314	50.0000	50.5	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	627488	50.0000	50.2	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	305119	50.0000	49.9	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	267378	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	310247	50.0000	49.3	
113 1,2,3-Trimethylbenzene	105	10.121	10.115	(1.005)	610664	50.0000	49.9	
114 Benzyl chloride	91	10.225	10.225	(1.015)	180796	50.0000	53.8	
115 trans-Decalin	138	10.292	10.292	(1.022)	101111	50.0000	49.8	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	352753	50.0000	49.8	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	720536	50.0000	50.6	
119 n-Undecane	43	10.450	10.444	(1.038)	77592	50.0000	41.0 (Q)	
118 1,2-Dichlorobenzene	146	10.408	10.408	(1.033)	280568	50.0000	49.8	
120 cis-Decalin	138	10.816	10.816	(1.074)	74320	50.0000	48.6	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	502129	50.0000	51.0	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	21755	50.0000	49.6	
123 n-Dodecane	43	11.584	11.590	(1.150)	41055	50.0000	30.3 (Q)	
124 1,2,4-Trichlorobenzene	180	12.188	12.194	(1.210)	139315	50.0000	49.8	
125 Hexachloro-1,3-butadiene	225	12.383	12.377	(1.229)	63378	50.0000	48.2	
126 Naphthalene	128	12.554	12.560	(1.246)	309261	50.0000	49.3	
127 1,2,3-Trichlorobenzene	180	12.962	12.956	(1.287)	108049	50.0000	50.3	

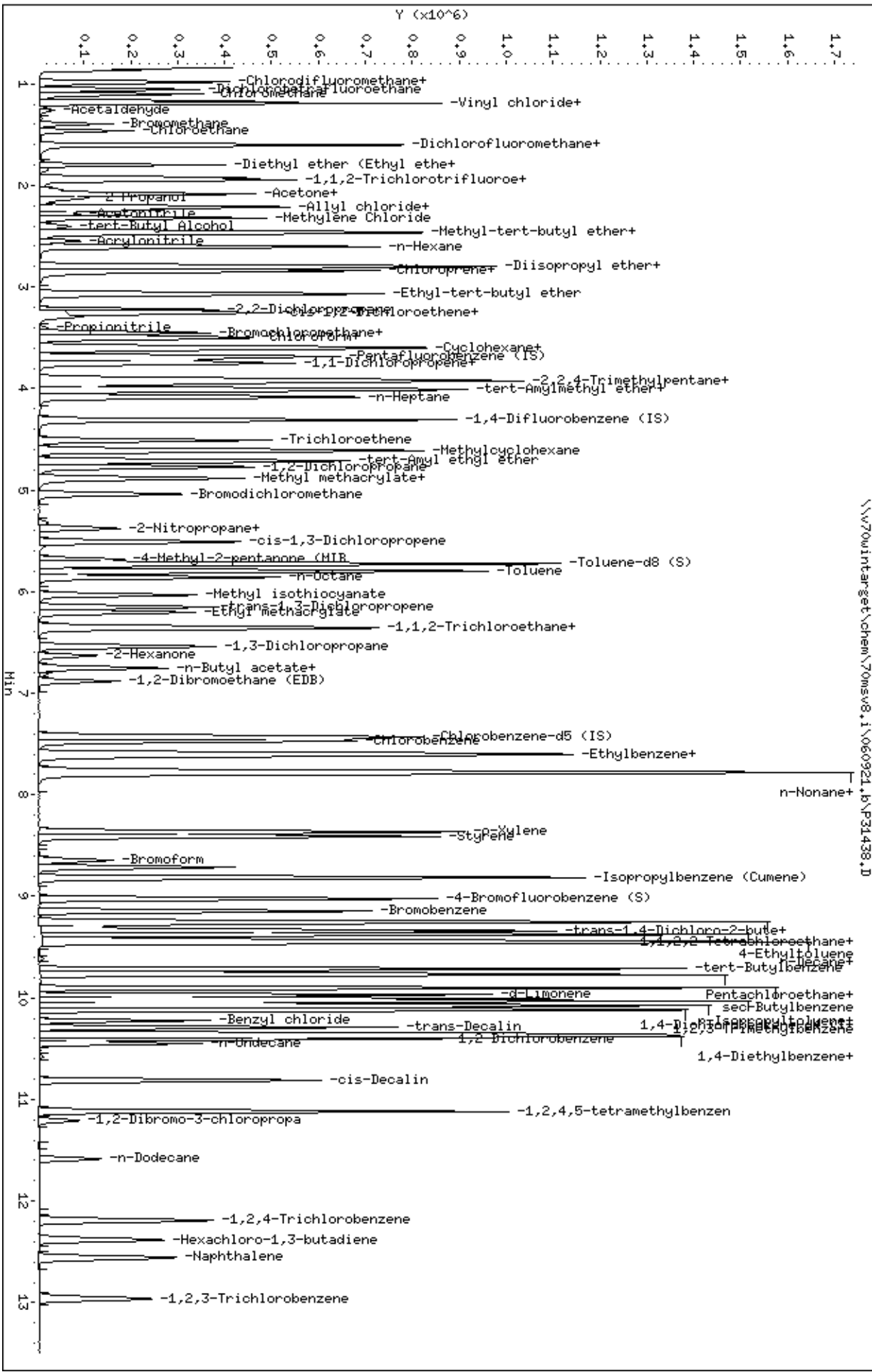
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Report Date: 09-Jun-2021 21:21

#### QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.  
D - User disabled compound identification.

#### Review Codes Legend

:  
GT: Indicates that the peak in question was inappropriately  
integrated to an area greater than it should be (e.g., Peak  
tailing).



Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31438.D

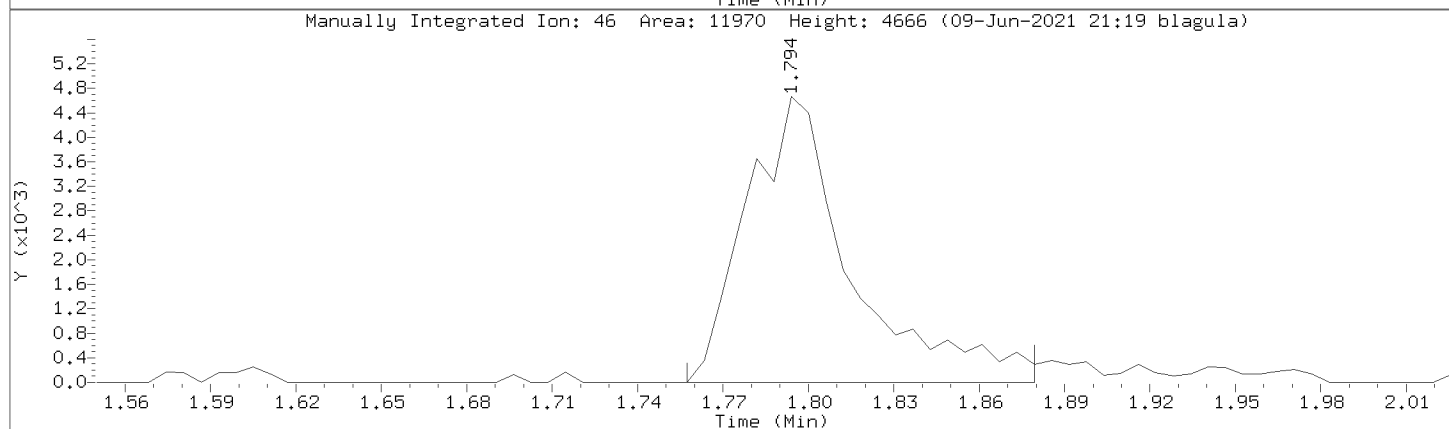
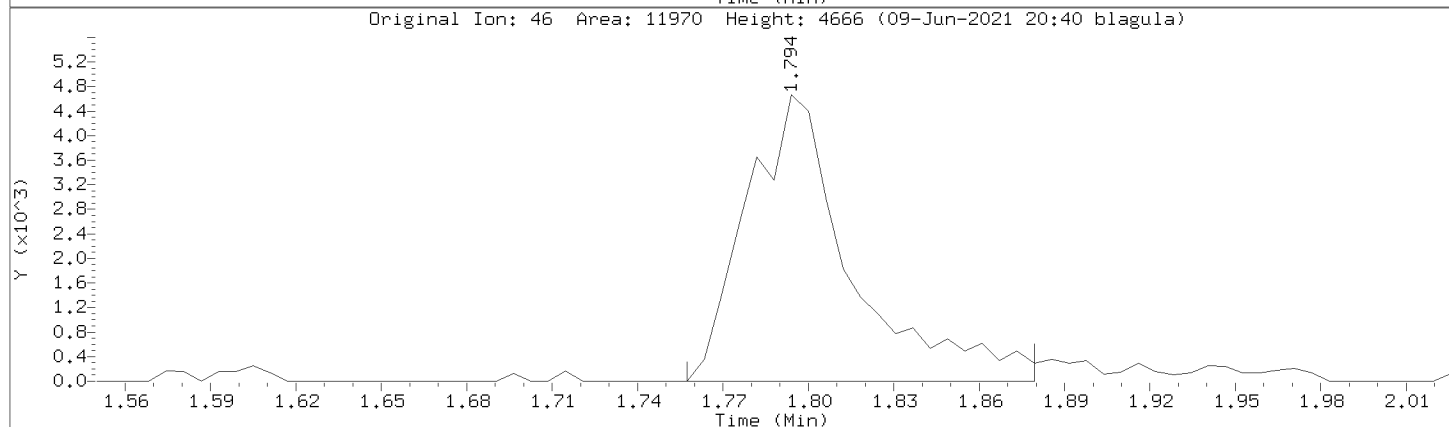
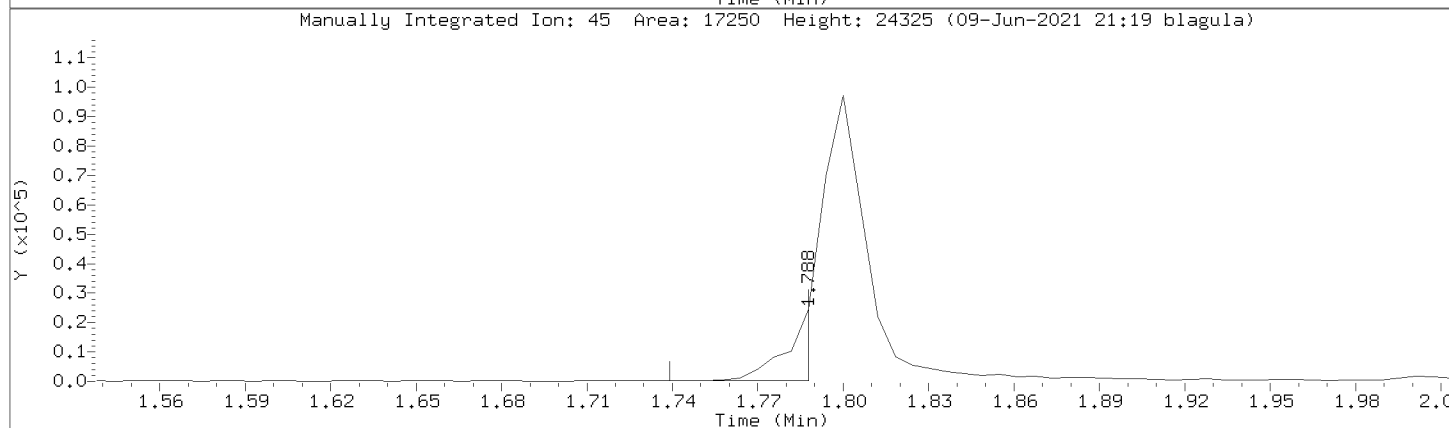
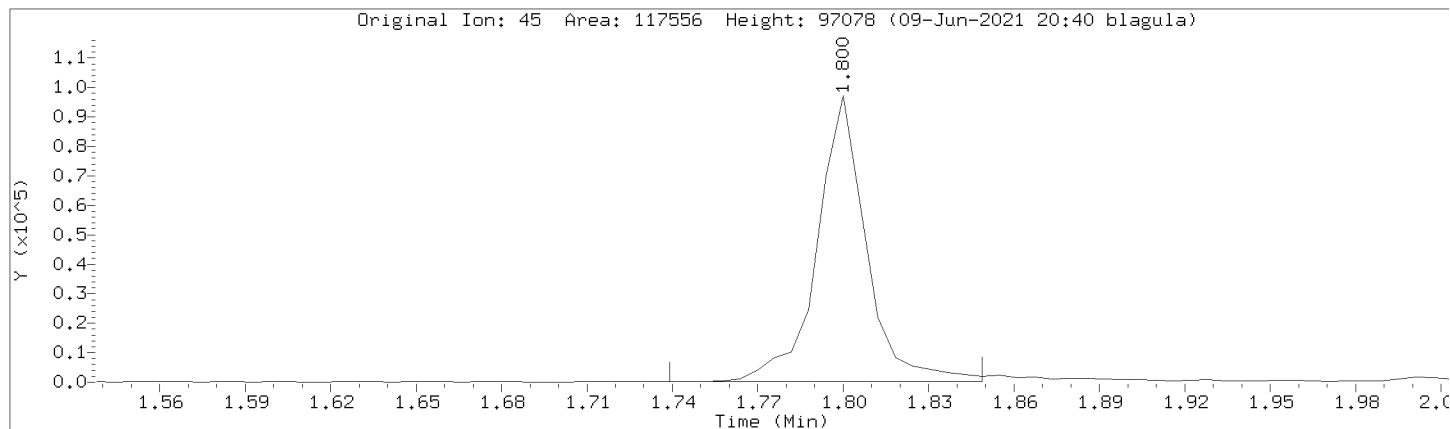
Injection Date: 09-JUN-2021 17:45

Instrument: 70msv8.i

Lab Sample ID: CAL6

Compound: Ethanol Review Code: GT

CAS Number:



Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31439.D  
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 Inj Date : 09-JUN-2021 18:05 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : cal7, 113070:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\060921.b\060921\_8260W.m  
 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 18:05 Cal File: P31439.D  
 Als bottle: 17 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
							CAL-AMT ( ug/L)	ON-COL ( ug/L)	
1 Chlorodifluoromethane	51		0.989	0.989	(0.268)	375624	100.000	101	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.286)	197171	100.000	103	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.263)	401396	100.000	102	
4 Chloromethane	50		1.105	1.104	(0.299)	415835	100.000	100	
5 Vinyl chloride	62		1.172	1.172	(0.318)	447448	100.000	100	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	334038	100.000	97.6	
7 Acetaldehyde	44		1.263	1.264	(0.342)	28851	100.000	91.2	
8 Bromomethane	94		1.391	1.391	(0.377)	144248	100.000	110	
9 Chloroethane	64		1.464	1.464	(0.397)	229232	100.000	94.8	
10 Dichlorofluoromethane	67		1.604	1.604	(0.435)	527401	100.000	99.3	
11 Trichlorofluoromethane	101		1.598	1.598	(0.433)	435869	100.000	99.2	
12 Ethanol	45		1.787	1.787	(0.485)	35060	2500.00	3010 (M)	GT
13 Diethyl ether (Ethyl ether)	59		1.800	1.799	(0.488)	259642	100.000	102	
16 1,1,2-Trichlorotrifluoroethane	101		1.928	1.927	(0.523)	292907	100.000	100	
14 Acrolein	56		1.934	1.934	(0.524)	30585	100.000	93.0	
15 1,1-Dichloroethene	96		1.952	1.952	(0.529)	250230	100.000	99.2	
17 Acetone	43		2.043	2.043	(0.554)	78795	100.000	72.8	
18 Iodomethane	142		2.068	2.068	(0.561)	156813	100.000	159	
19 2-Propanol	45		2.129	2.129	(0.577)	240410	2500.00	2610	
20 Carbon disulfide	76		2.086	2.086	(0.565)	855928	100.000	98.8	
21 Allyl chloride	76		2.214	2.214	(0.600)	183471	100.000	104	
22 Acetonitrile	41		2.281	2.281	(0.618)	130921	500.000	393 (Q)	
23 Methyl acetate	43		2.238	2.238	(0.607)	400896	100.000	97.6	

Compounds	QUANT SIG		AMOUNTS					REVIEW C	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)		
24 Methylene Chloride	84	2.318	2.318	(0.628)	293869	100.000	97.8		
25 tert-Butyl Alcohol	59	2.397	2.403	(0.650)	74213	500.000	495		
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.666)	818088	100.000	101		
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.670)	280597	100.000	97.4		
26 Acrylonitrile	53	2.543	2.543	(0.689)	90027	100.000	98.0		
30 n-Hexane	57	2.604	2.604	(0.706)	509482	100.000	100		
29 Diisopropyl ether	45	2.793	2.799	(0.757)	1069666	100.000	103		
32 Vinyl acetate	43	2.836	2.836	(0.769)	636832	100.000	103 (H)		
31 1,1-Dichloroethane	63	2.805	2.805	(0.760)	566614	100.000	102		
33 Chloroprene	53	2.842	2.842	(0.770)	417027	100.000	101		
34 Ethyl-tert-butyl ether	59	3.068	3.067	(0.831)	957370	100.000	104		
36 2,2-Dichloropropane	77	3.226	3.226	(0.874)	372406	100.000	104		
35 cis-1,2-Dichloroethene	96	3.257	3.256	(0.883)	328780	100.000	102		
39 Ethyl acetate	61	3.257	3.256	(0.883)	493390	100.000	99.3		
37 2-Butanone (MEK)	43	3.293	3.299	(0.893)	175553	100.000	86.4		
41 Bromochloromethane	128	3.452	3.452	(0.936)	126615	100.000	90.8		
42 Tetrahydrofuran	42	3.458	3.464	(0.937)	81152	100.000	90.9		
43 Chloroform	83	3.507	3.506	(0.950)	501747	100.000	100		
38 Propionitrile	54	3.403	3.403	(0.922)	34313	100.000	96.9		
46 Cyclohexane	56	3.592	3.592	(0.974)	663244	100.000	99.4		
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	416797	100.000	102		
* 44 Pentafluorobenzene (IS)	168	3.689	3.683	(1.000)	344733	50.0000			
48 Carbon tetrachloride	117	3.714	3.714	(0.861)	384309	100.000	106		
47 1,1-Dichloropropene	75	3.750	3.756	(0.870)	429837	100.000	95.4		
55 2,2,4-Trimethylpentane	57	3.909	3.909	(1.059)	899982	100.000	103		
51 Benzene	78	3.927	3.927	(0.911)	1225756	100.000	101		
40 Methacrylonitrile	67	3.488	3.488	(0.945)	115681	100.000	103		
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.952	3.951	(0.917)	200786	50.0000	49.8		
56 tert-Amylmethyl ether	73	4.000	4.006	(1.084)	812515	100.000	104		
52 1,2-Dichloroethane	62	4.019	4.019	(1.089)	366029	100.000	101		
57 n-Heptane	43	4.086	4.079	(1.107)	487946	100.000	97.3		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	606556	50.0000			
59 Trichloroethene	95	4.512	4.506	(1.047)	311006	100.000	98.8		
60 Methylcyclohexane	83	4.610	4.610	(1.069)	628436	100.000	101		
49 Isobutanol	43	3.909	3.903	(1.059)	194086	500.000	492		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.278)	709813	100.000	103		
61 1,2-Dichloropropane	63	4.775	4.774	(1.107)	344181	100.000	103		
63 Methyl methacrylate	69	4.878	4.878	(1.131)	201063	100.000	105		
64 1,4-Dioxane (p-Dioxane)	88	4.903	4.909	(1.137)	47288	2500.00	2440 (Q)		
62 Dibromomethane	93	4.890	4.884	(1.134)	174396	100.000	103		
65 Bromodichloromethane	83	5.043	5.037	(1.170)	390076	100.000	103		
66 2-Nitropropane	43	5.372	5.378	(1.246)	146939	100.000	98.4		
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	132872	100.000	99.4		
68 cis-1,3-Dichloropropene	75	5.506	5.512	(1.277)	501461	100.000	110		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	248849	100.000	97.4		
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	740930	50.0000	50.6		
71 Toluene	91	5.799	5.799	(1.345)	1366873	100.000	100		
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	463930	250.000	272 (A)		
74 trans-1,3-Dichloropropene	75	6.152	6.146	(1.427)	415406	100.000	108		
75 Ethyl methacrylate	69	6.201	6.201	(1.438)	370796	100.000	105		
76 1,1,2-Trichloroethane	83	6.347	6.347	(1.472)	234515	100.000	101		
77 Tetrachloroethene	166	6.360	6.360	(0.856)	294378	100.000	97.8		
78 1,3-Dichloropropane	76	6.543	6.542	(0.880)	464164	100.000	102		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	6.628	6.634	(0.892)	165612	100.000	88.1	
73 n-Octane	43	5.860	5.860	(1.359)	428126	100.000	95.0	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	77519	100.000	99.8	
80 Dibromochloromethane	129	6.750	6.750	(0.908)	260118	100.000	107	
82 1,2-Dibromoethane (EDB)	107	6.884	6.884	(1.597)	246477	100.000	102	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.432	(1.000)	302509	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	828683	100.000	102	
86 Ethylbenzene	106	7.603	7.603	(1.023)	477297	100.000	101	
85 1,1,1,2-Tetrachloroethane	131	7.609	7.609	(1.024)	263107	100.000	104	
88 n-Nonane	43	7.768	7.768	(1.045)	299294	100.000	93.8	
87 m&p-Xylene	106	7.786	7.780	(1.048)	1155372	200.000	203 (A)	
89 o-Xylene	106	8.365	8.365	(1.125)	557566	100.000	103	
90 Styrene	104	8.408	8.408	(1.131)	914503	100.000	103	
91 Bromoform	173	8.646	8.652	(1.163)	147648	100.000	109	
92 Isopropylbenzene (Cumene)	105	8.816	8.816	(0.875)	1498454	100.000	102	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	273158	50.0000	50.8	
94 Bromobenzene	156	9.146	9.146	(0.908)	325900	100.000	100	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	317455	100.000	102	
98 n-Propylbenzene	91	9.255	9.255	(0.919)	1863178	100.000	101	
96 1,2,3-Trichloropropane	110	9.274	9.280	(0.921)	82715	100.000	94.1	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	67840	100.000	107 (Q)	
103 n-Decane	43	9.420	9.420	(1.267)	240559	100.000	97.1	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	1092134	100.000	100	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	1553303	100.000	101	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	1216285	100.000	102	
102 4-Chlorotoluene	91	9.457	9.456	(0.939)	1209821	100.000	101	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	1036861	100.000	103	
105 Pentachloroethane	167	9.755	9.755	(0.969)	189100	100.000	110	
106 1,2,4-Trimethylbenzene	105	9.774	9.773	(0.970)	1225491	100.000	102	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	1584181	100.000	102	
109 d-Limonene	136	9.975	9.975	(1.342)	53568	100.000	106	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	1279190	100.000	102	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	621666	100.000	101	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	268339	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	628487	100.000	99.5	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	1249004	100.000	102	
114 Benzyl chloride	91	10.225	10.225	(1.015)	418299	100.000	124	
115 trans-Decalin	138	10.292	10.292	(1.022)	192365	100.000	94.4	
116 1,4-Diethylbenzene	119	10.359	10.353	(1.028)	729797	100.000	103	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	1470480	100.000	103	
119 n-Undecane	43	10.450	10.444	(1.038)	146209	100.000	76.9	
118 1,2-Dichlorobenzene	146	10.408	10.408	(1.033)	574333	100.000	102	
120 cis-Decalin	138	10.816	10.816	(1.074)	143006	100.000	93.1	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	1034300	100.000	105	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	44308	100.000	101	
123 n-Dodecane	43	11.584	11.590	(1.150)	62395	100.000	45.9	
124 1,2,4-Trichlorobenzene	180	12.188	12.194	(1.210)	288458	100.000	103	
125 Hexachloro-1,3-butadiene	225	12.383	12.377	(1.229)	128557	100.000	97.3	
126 Naphthalene	128	12.560	12.560	(1.247)	621715	100.000	98.7	
127 1,2,3-Trichlorobenzene	180	12.956	12.956	(1.286)	213187	100.000	99.0	

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Report Date: 09-Jun-2021 21:21

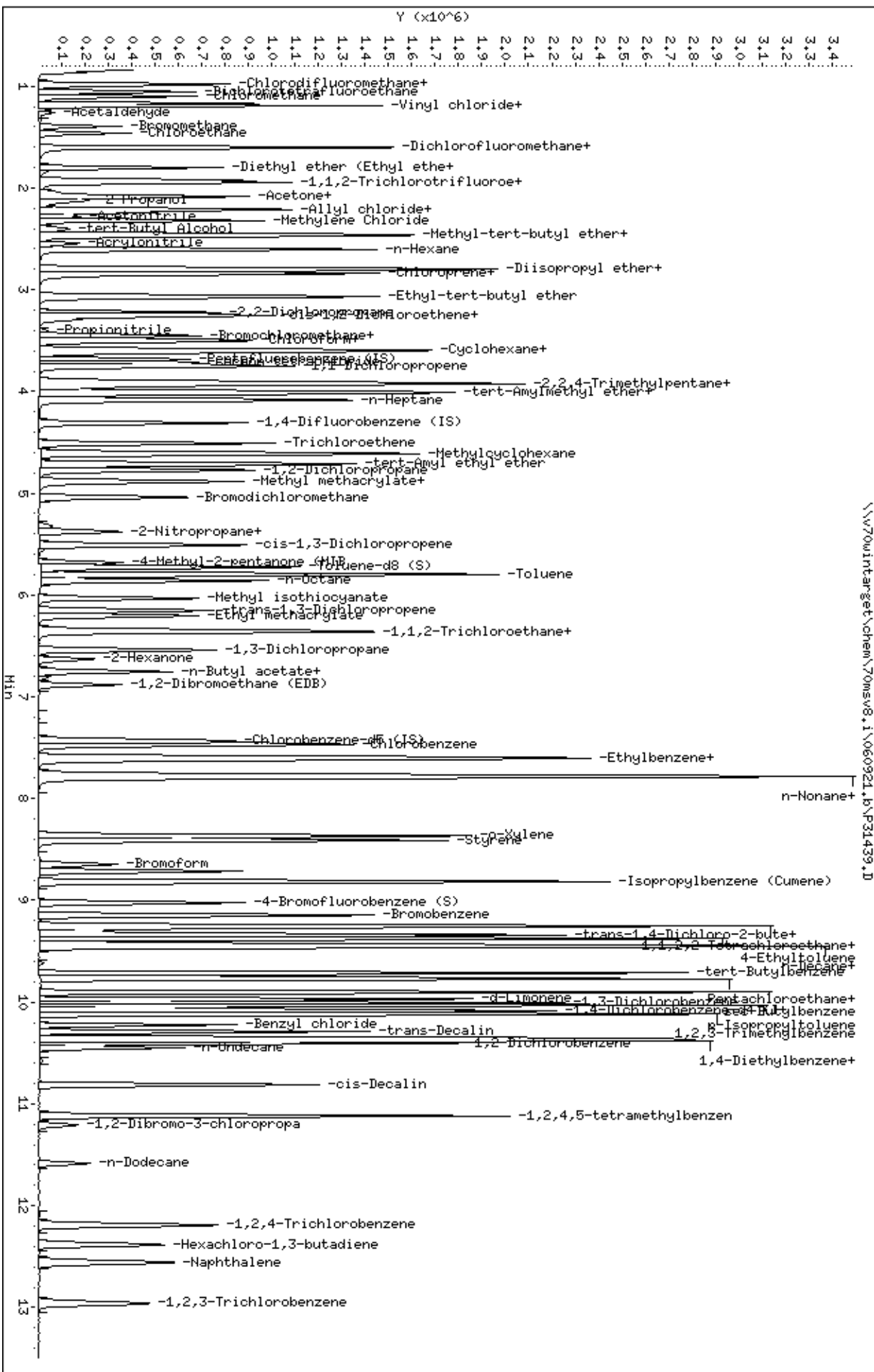
#### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.
- D - User disabled compound identification.

#### Review Codes Legend

- :  
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).





Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31439.D

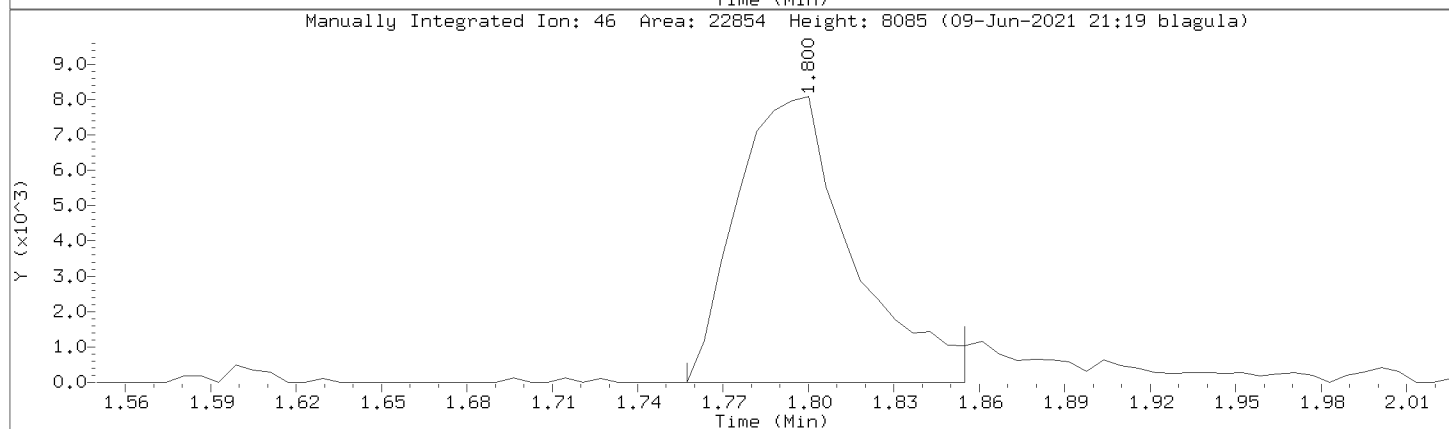
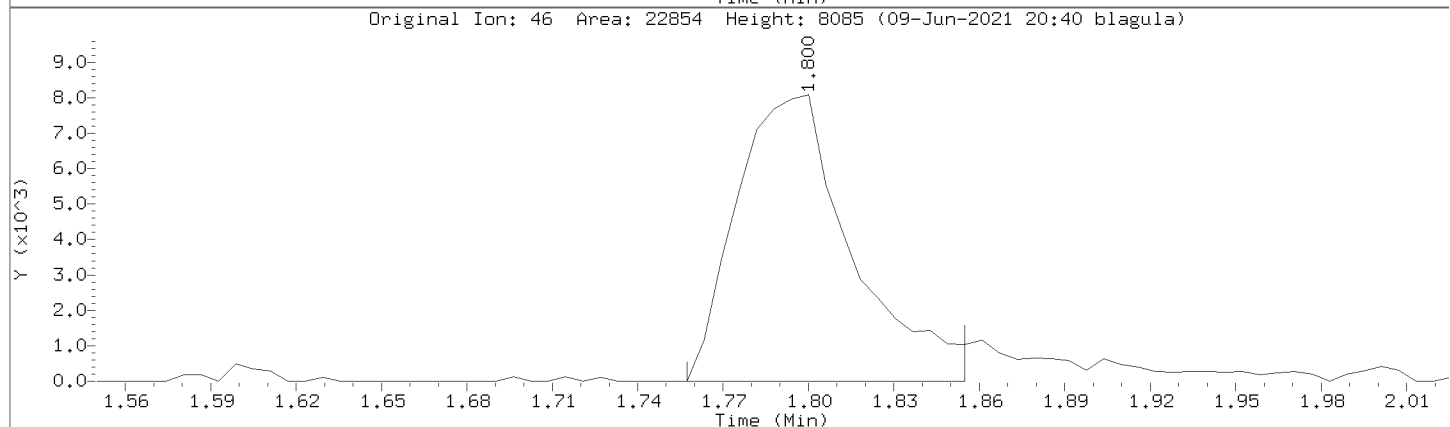
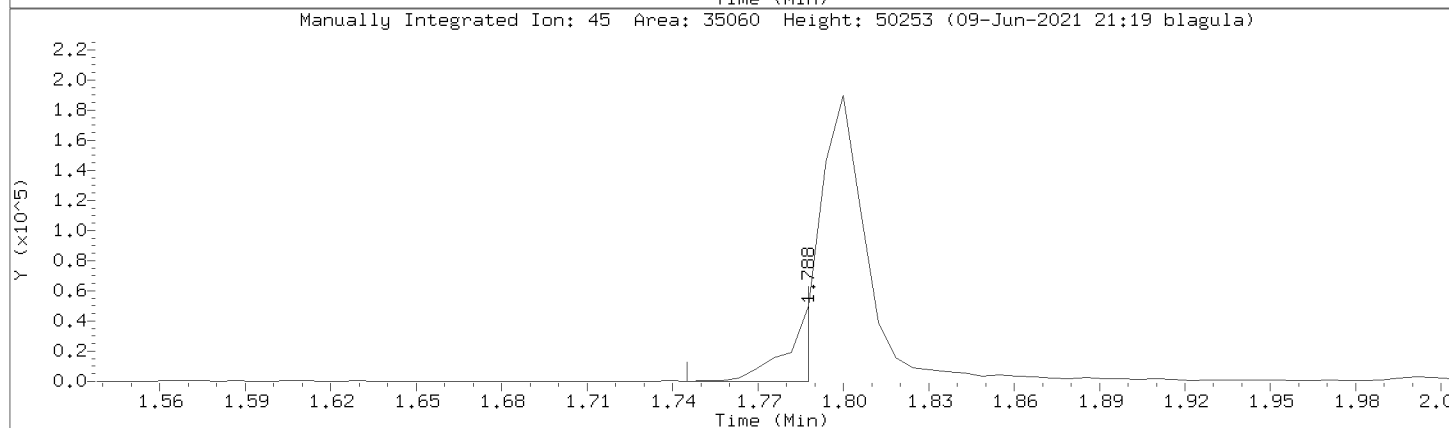
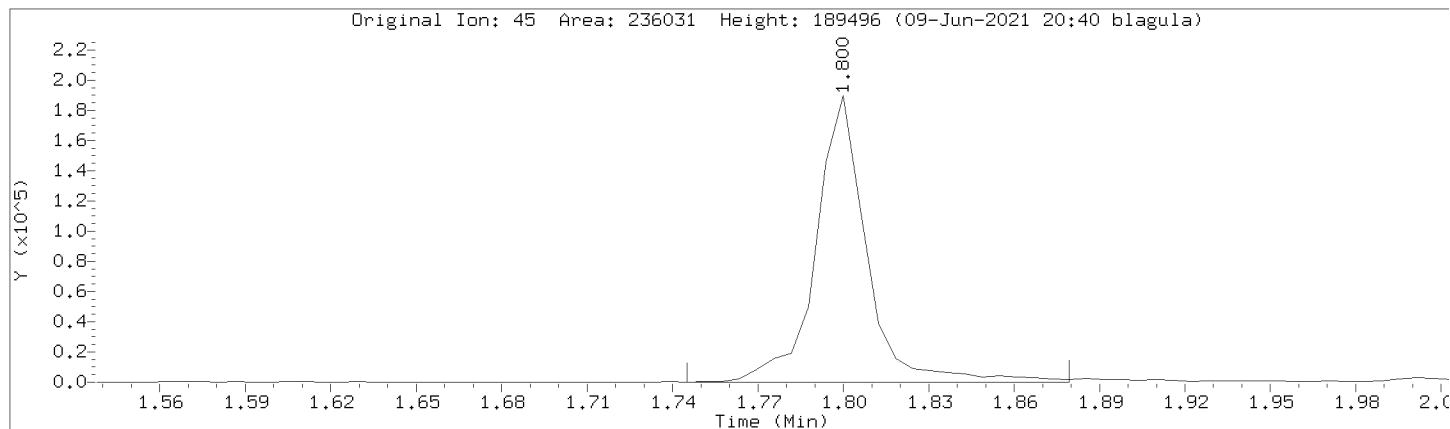
Injection Date: 09-JUN-2021 18:05

Instrument: 70msv8.i

Lab Sample ID: CAL7

Compound: Ethanol Review Code: GT

CAS Number:



Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31440.D  
 Lab Smp Id: CAL8 Client Smp ID: CAL8  
 Inj Date : 09-JUN-2021 18:24 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : cal8, 113071:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\060921.b\060921\_8260W.m  
 Meth Date : 09-Jun-2021 21:19 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 18:24 Cal File: P31440.D  
 Als bottle: 18 Calibration Sample, Level: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
							CAL-AMT ( ug/L)	ON-COL ( ug/L)	
1 Chlorodifluoromethane	51		0.989	0.989	(0.268)	742397	200.000	196	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.286)	388682	200.000	200 (A)	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.263)	773707	200.000	193 (Q)	
4 Chloromethane	50		1.104	1.104	(0.299)	857389	200.000	203 (A)	
5 Vinyl chloride	62		1.172	1.172	(0.318)	889081	200.000	196	
6 1,3-Butadiene	54		1.196	1.190	(0.324)	639326	200.000	184	
7 Acetaldehyde	44		1.263	1.264	(0.342)	72995	200.000	227 (A)	
8 Bromomethane	94		1.391	1.391	(0.377)	334424	200.000	251 (A)	
9 Chloroethane	64		1.458	1.464	(0.395)	445419	200.000	181	
10 Dichlorofluoromethane	67		1.604	1.604	(0.435)	1047606	200.000	194	
11 Trichlorofluoromethane	101		1.604	1.598	(0.435)	848311	200.000	190	
12 Ethanol	45		1.787	1.787	(0.484)	68697	5000.00	5800 (AM)	GT
13 Diethyl ether (Ethyl ether)	59		1.799	1.799	(0.488)	525459	200.000	202 (A)	
16 1,1,2-Trichlorotrifluoroethane	101		1.927	1.927	(0.522)	576423	200.000	194	
14 Acrolein	56		1.934	1.934	(0.524)	72987	200.000	218 (A)	
15 1,1-Dichloroethene	96		1.952	1.952	(0.529)	514451	200.000	200 (A)	
17 Acetone	43		2.037	2.043	(0.552)	165401	200.000	150	
18 Iodomethane	142		2.068	2.068	(0.561)	328687	200.000	327 (A)	
19 2-Propanol	45		2.129	2.129	(0.577)	511454	5000.00	5460 (AQ)	
20 Carbon disulfide	76		2.086	2.086	(0.565)	1716460	200.000	195	
21 Allyl chloride	76		2.214	2.214	(0.600)	327021	200.000	183	
22 Acetonitrile	41		2.281	2.281	(0.618)	331562	1000.00	978	
23 Methyl acetate	43		2.238	2.238	(0.607)	811988	200.000	194	

Compounds	QUANT SIG						AMOUNTS		REVIEW C
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)		
24 Methylene Chloride	84	2.318	2.318	(0.628)	595312	200.000	195		
25 tert-Butyl Alcohol	59	2.397	2.403	(0.650)	162331	1000.00	1060 (A)		
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.666)	1678222	200.000	204 (A)		
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.670)	575105	200.000	196		
26 Acrylonitrile	53	2.549	2.543	(0.691)	188183	200.000	201 (A)		
30 n-Hexane	57	2.604	2.604	(0.706)	1002754	200.000	195		
29 Diisopropyl ether	45	2.793	2.799	(0.757)	2178581	200.000	206 (A)		
32 Vinyl acetate	43	2.836	2.836	(0.769)	1322084	200.000	210 (AH)		
31 1,1-Dichloroethane	63	2.805	2.805	(0.760)	1143272	200.000	203 (A)		
33 Chloroprene	53	2.842	2.842	(0.770)	833881	200.000	199		
34 Ethyl-tert-butyl ether	59	3.068	3.067	(0.831)	1941996	200.000	208 (A)		
36 2,2-Dichloropropane	77	3.226	3.226	(0.874)	771621	200.000	213 (A)		
35 cis-1,2-Dichloroethene	96	3.256	3.256	(0.883)	666638	200.000	204 (A)		
39 Ethyl acetate	61	3.256	3.256	(0.883)	993624	200.000	197 (Q)		
37 2-Butanone (MEK)	43	3.293	3.299	(0.893)	368644	200.000	178		
41 Bromochloromethane	128	3.452	3.452	(0.936)	248728	200.000	175		
42 Tetrahydrofuran	42	3.458	3.464	(0.937)	167958	200.000	185		
43 Chloroform	83	3.506	3.506	(0.950)	1010959	200.000	199		
38 Propionitrile	54	3.403	3.403	(0.922)	68322	200.000	190		
46 Cyclohexane	56	3.592	3.592	(0.974)	1315272	200.000	194		
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	846019	200.000	208 (A)		
* 44 Pentafluorobenzene (IS)	168	3.689	3.683	(1.000)	350564	50.0000			
48 Carbon tetrachloride	117	3.720	3.714	(0.863)	744531	200.000	208 (A)		
47 1,1-Dichloropropene	75	3.750	3.756	(0.870)	874162	200.000	196		
55 2,2,4-Trimethylpentane	57	3.909	3.909	(1.059)	1827830	200.000	205 (A)		
51 Benzene	78	3.927	3.927	(0.911)	2480076	200.000	206 (A)		
40 Methacrylonitrile	67	3.488	3.488	(0.945)	238086	200.000	208 (A)		
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.951	3.951	(0.917)	200272	50.0000	50.1		
56 tert-Amylmethyl ether	73	4.006	4.006	(1.086)	1678201	200.000	211 (A)		
52 1,2-Dichloroethane	62	4.019	4.019	(1.089)	752820	200.000	204 (A)		
57 n-Heptane	43	4.086	4.079	(1.107)	1009097	200.000	198		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	601815	50.0000			
59 Trichloroethene	95	4.512	4.506	(1.047)	630117	200.000	202 (A)		
60 Methylcyclohexane	83	4.610	4.610	(1.069)	1260087	200.000	204 (A)		
49 Isobutanol	43	3.909	3.903	(1.059)	395673	1000.00	987		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.278)	1468945	200.000	210 (A)		
61 1,2-Dichloropropane	63	4.774	4.774	(1.107)	698845	200.000	210 (A)		
63 Methyl methacrylate	69	4.878	4.878	(1.131)	411097	200.000	217 (A)		
64 1,4-Dioxane (p-Dioxane)	88	4.903	4.909	(1.137)	99329	5000.00	5180 (AQ)		
62 Dibromomethane	93	4.890	4.884	(1.134)	352544	200.000	210 (A)		
65 Bromodichloromethane	83	5.043	5.037	(1.170)	794991	200.000	212 (A)		
66 2-Nitropropane	43	5.378	5.378	(1.247)	305462	200.000	206 (A)		
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	274730	200.000	207 (A)		
68 cis-1,3-Dichloropropene	75	5.506	5.512	(1.277)	1034435	200.000	229 (A)		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	514789	200.000	203 (A)		
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	744751	50.0000	49.5		
71 Toluene	91	5.799	5.799	(1.345)	2764198	200.000	205 (A)		
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	994438	500.000	587 (A)		
74 trans-1,3-Dichloropropene	75	6.152	6.146	(1.427)	881416	200.000	230 (A)		
75 Ethyl methacrylate	69	6.207	6.201	(1.440)	776607	200.000	222 (A)		
76 1,1,2-Trichloroethane	83	6.347	6.347	(1.472)	476671	200.000	207 (A)		
77 Tetrachloroethene	166	6.360	6.360	(0.856)	598747	200.000	194		
78 1,3-Dichloropropane	76	6.542	6.542	(0.880)	949760	200.000	203 (A)		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	6.628	6.634	(0.892)	355260	200.000	184	
73 n-Octane	43	5.860	5.860	(1.359)	894754	200.000	200 (AQ)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	162636	200.000	211 (A)	
80 Dibromochloromethane	129	6.750	6.750	(0.908)	544945	200.000	218 (A)	
82 1,2-Dibromoethane (EDB)	107	6.884	6.884	(1.597)	511385	200.000	214 (A)	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.432	(1.000)	310512	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	1689951	200.000	202 (A)	
86 Ethylbenzene	106	7.603	7.603	(1.023)	990112	200.000	204 (A)	
85 1,1,1,2-Tetrachloroethane	131	7.615	7.609	(1.025)	553849	200.000	214 (A)	
88 n-Nonane	43	7.768	7.768	(1.045)	645437	200.000	197 (Q)	
87 m&p-Xylene	106	7.786	7.780	(1.048)	2385847	400.000	408 (A)	
89 o-Xylene	106	8.365	8.365	(1.125)	1139406	200.000	204 (A)	
90 Styrene	104	8.414	8.408	(1.132)	1886198	200.000	206 (A)	
91 Bromoform	173	8.646	8.652	(1.163)	311729	200.000	224 (A)	
92 Isopropylbenzene (Cumene)	105	8.816	8.816	(0.875)	3056361	200.000	207 (A)	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	273143	50.0000	49.5	
94 Bromobenzene	156	9.146	9.146	(0.908)	662620	200.000	203 (A)	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	658676	200.000	210 (A)	
98 n-Propylbenzene	91	9.255	9.255	(0.919)	3838405	200.000	206 (A)	
96 1,2,3-Trichloropropane	110	9.274	9.280	(0.921)	171885	200.000	194	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	145873	200.000	228 (AQ)	
103 n-Decane	43	9.420	9.420	(1.267)	465674	200.000	183 (Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	2235772	200.000	205 (A)	
100 4-Ethyltoluene	105	9.377	9.371	(0.931)	3209037	200.000	208 (A)	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	2544917	200.000	212 (A)	
102 4-Chlorotoluene	91	9.457	9.456	(0.939)	2480497	200.000	205 (A)	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	2115286	200.000	209 (A)	
105 Pentachloroethane	167	9.755	9.755	(0.969)	394265	200.000	229 (A)	
106 1,2,4-Trimethylbenzene	105	9.774	9.773	(0.970)	2539480	200.000	210 (A)	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	3260895	200.000	208 (A)	
109 d-Limonene	136	9.975	9.975	(1.342)	109596	200.000	212 (A)	
110 p-Isopropyltoluene	119	10.036	10.030	(0.996)	2660839	200.000	211 (A)	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	1300148	200.000	210 (A)	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	269873	50.0000	(Q)	
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	1308504	200.000	206 (A)	
113 1,2,3-Trimethylbenzene	105	10.121	10.115	(1.005)	2594244	200.000	210 (A)	
114 Benzyl chloride	91	10.225	10.225	(1.015)	971625	200.000	287 (A)	
115 trans-Decalin	138	10.292	10.292	(1.022)	419744	200.000	205 (A)	
116 1,4-Diethylbenzene	119	10.359	10.353	(1.028)	1518508	200.000	212 (A)	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	3023787	200.000	210 (A)	
119 n-Undecane	43	10.450	10.444	(1.038)	252600	200.000	132 (Q)	
118 1,2-Dichlorobenzene	146	10.408	10.408	(1.033)	1189823	200.000	209 (A)	
120 cis-Decalin	138	10.816	10.816	(1.074)	311827	200.000	202 (A)	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	2170196	200.000	218 (A)	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	91761	200.000	207 (A)	
123 n-Dodecane	43	11.584	11.590	(1.150)	116470	200.000	85.2 (Q)	
124 1,2,4-Trichlorobenzene	180	12.188	12.194	(1.210)	606907	200.000	215 (A)	
125 Hexachloro-1,3-butadiene	225	12.383	12.377	(1.229)	269138	200.000	203 (A)	
126 Naphthalene	128	12.560	12.560	(1.247)	1307271	200.000	206 (A)	
127 1,2,3-Trichlorobenzene	180	12.962	12.956	(1.287)	448150	200.000	207 (A)	

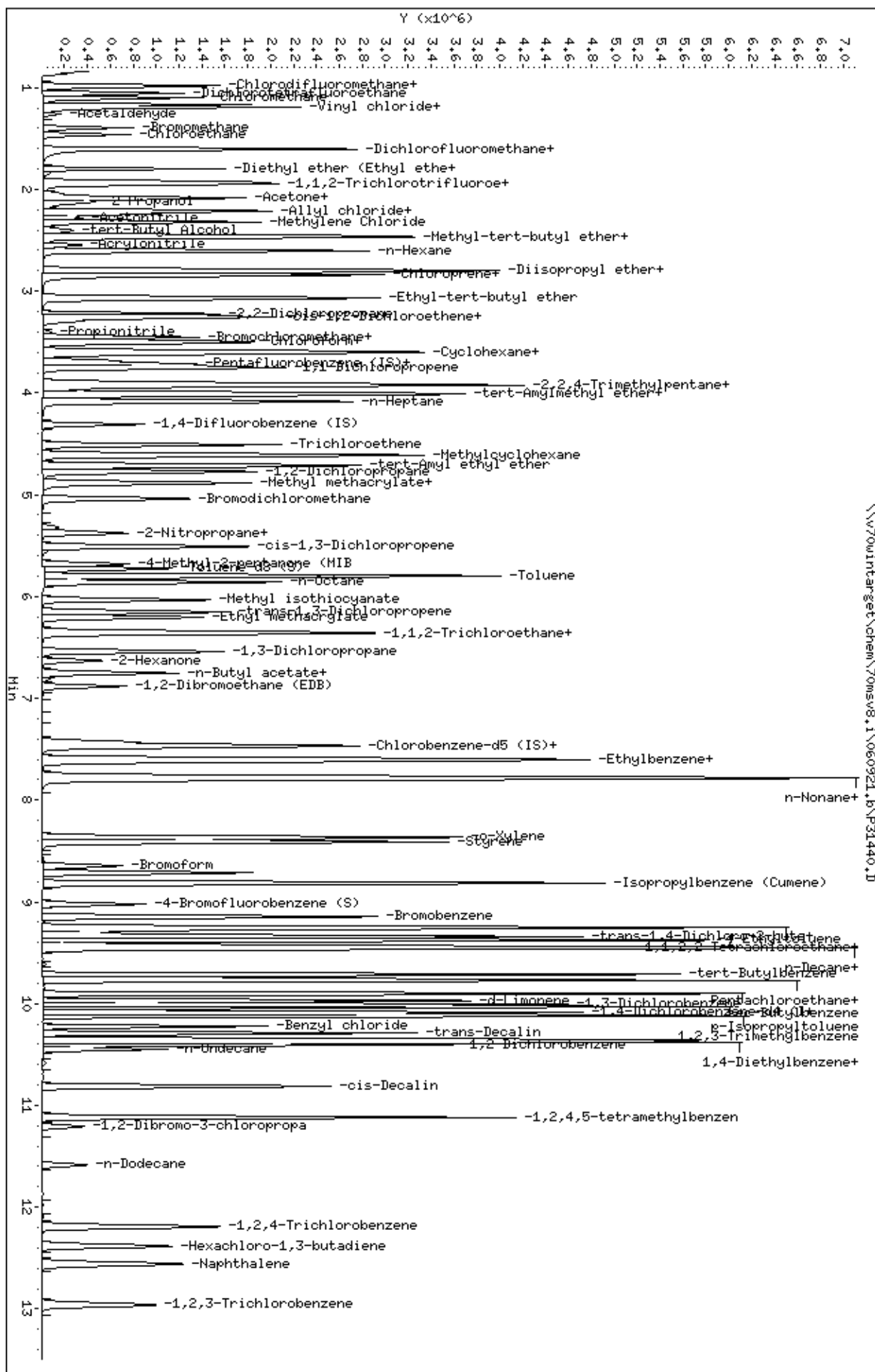
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Report Date: 09-Jun-2021 21:21

#### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.
- D - User disabled compound identification.

#### Review Codes Legend

- :  
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).



Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31440.D

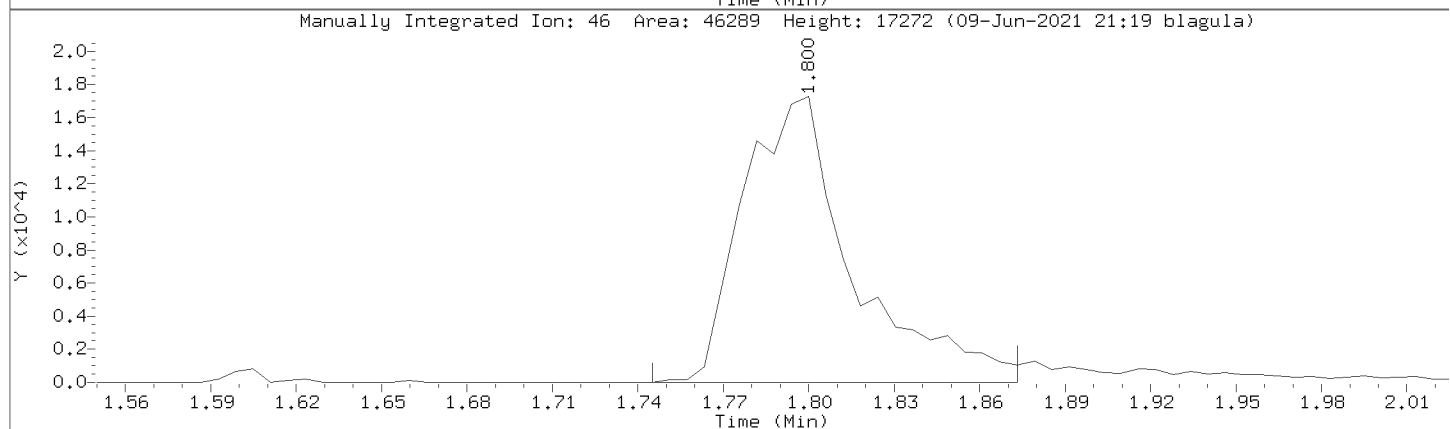
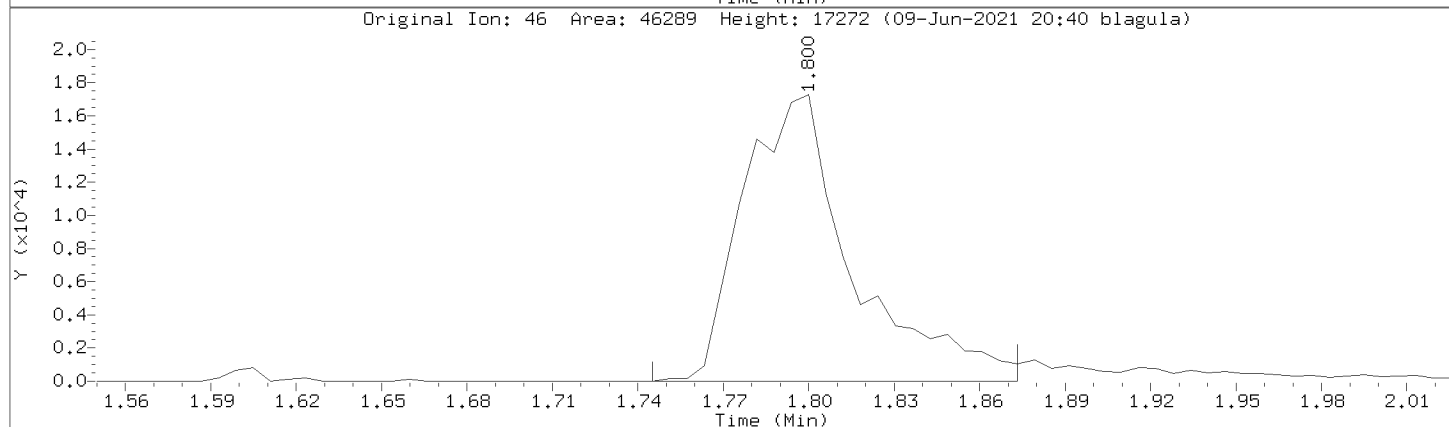
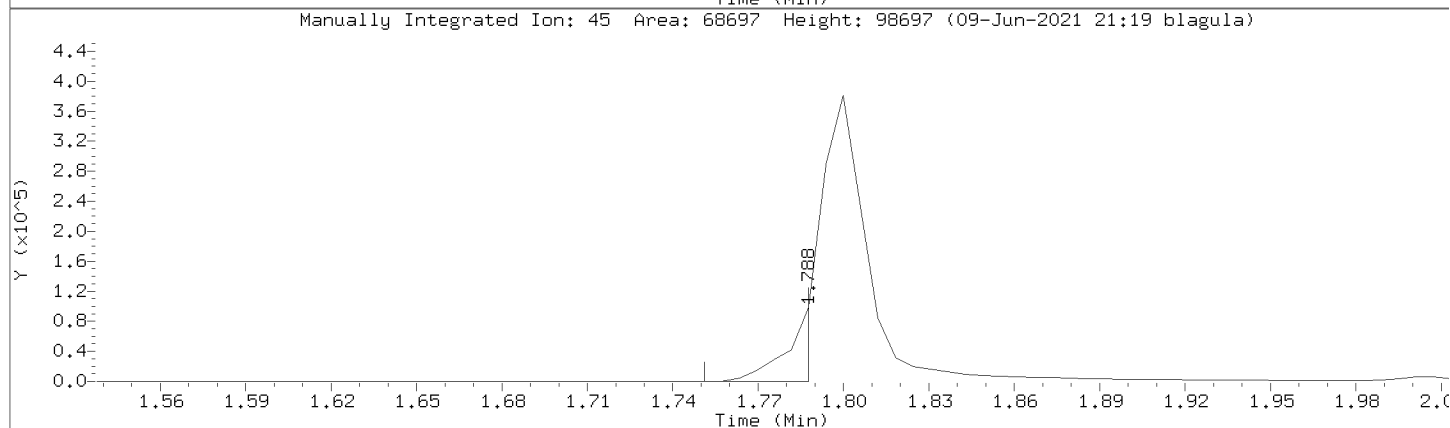
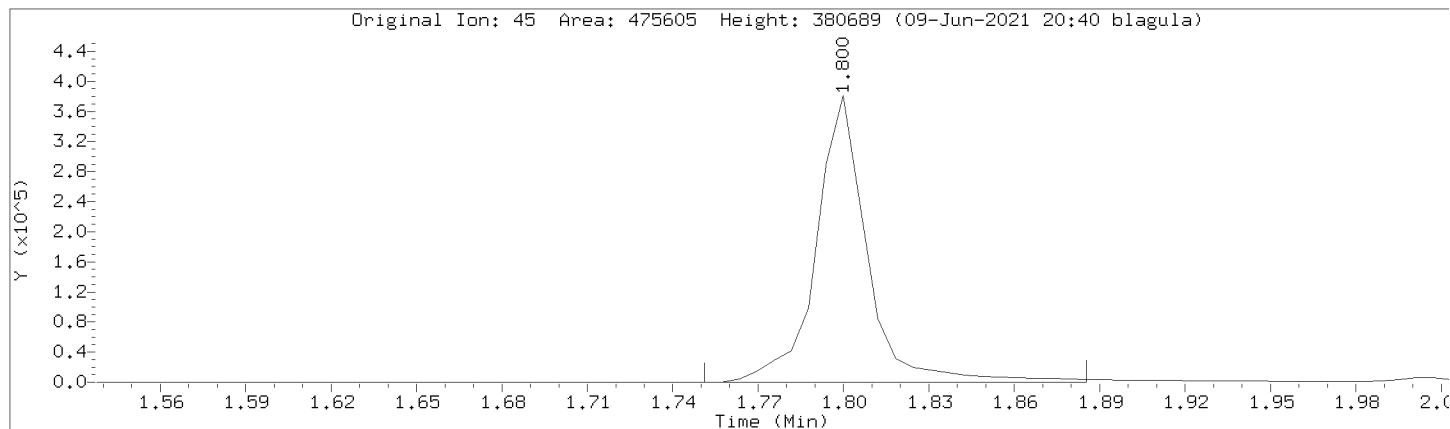
Injection Date: 09-JUN-2021 18:24

Instrument: 70msv8.i

Lab Sample ID: CAL8

Compound: Ethanol Review Code: GT

CAS Number:





Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10401.D  
 Report Date: 15-Sep-2021 14:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10401.D  
 Lab Smp Id: CAL1 Client Smp ID: CAL1  
 Inj Date : 14-SEP-2021 18:04 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : call, 118830:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 13:59 blagula Quant Type: ISTD  
 Cal Date : 23-SEP-2020 14:41 Cal File: B8342.D  
 Als bottle: 2 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

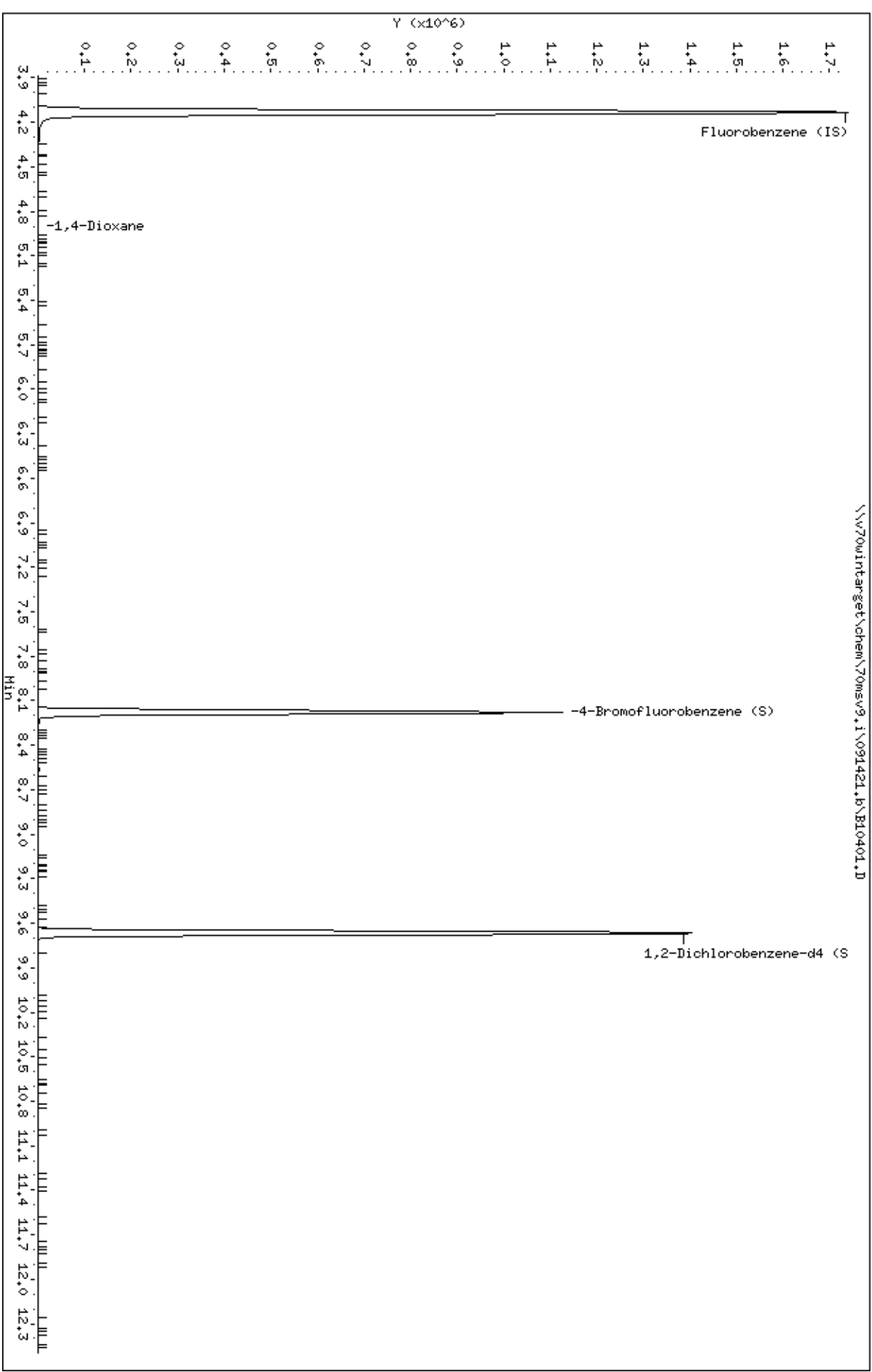
Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
* 45 Fluorobenzene (IS)	96	4.133	4.133	(1.000)	2441878	5.00000		
188 1,4-Dioxane	88	4.902	4.909	(1.186)	2507	0.20000	0.267	
\$ 90 4-Bromofluorobenzene (S)	95	8.174	8.180	(1.978)	675326	5.00000	4.59	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152	9.668	9.668	(2.339)	657966	5.00000	4.77	

Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10401.D  
Date: 14-SEP-2021 18:04  
Client ID: CAL1  
Sample Info: CAL1, 118830:1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10401.D  
Injection Date: 14-SEP-2021 18:04  
Instrument: 70msv9.i  
Lab Sample ID: CAL1  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10402.D  
 Report Date: 15-Sep-2021 14:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10402.D  
 Lab Smp Id: CAL2 Client Smp ID: CAL2  
 Inj Date : 14-SEP-2021 18:27 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : cal2, 118831:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 13:59 blagula Quant Type: ISTD  
 Cal Date : 23-SEP-2020 14:41 Cal File: B8342.D  
 Als bottle: 3 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

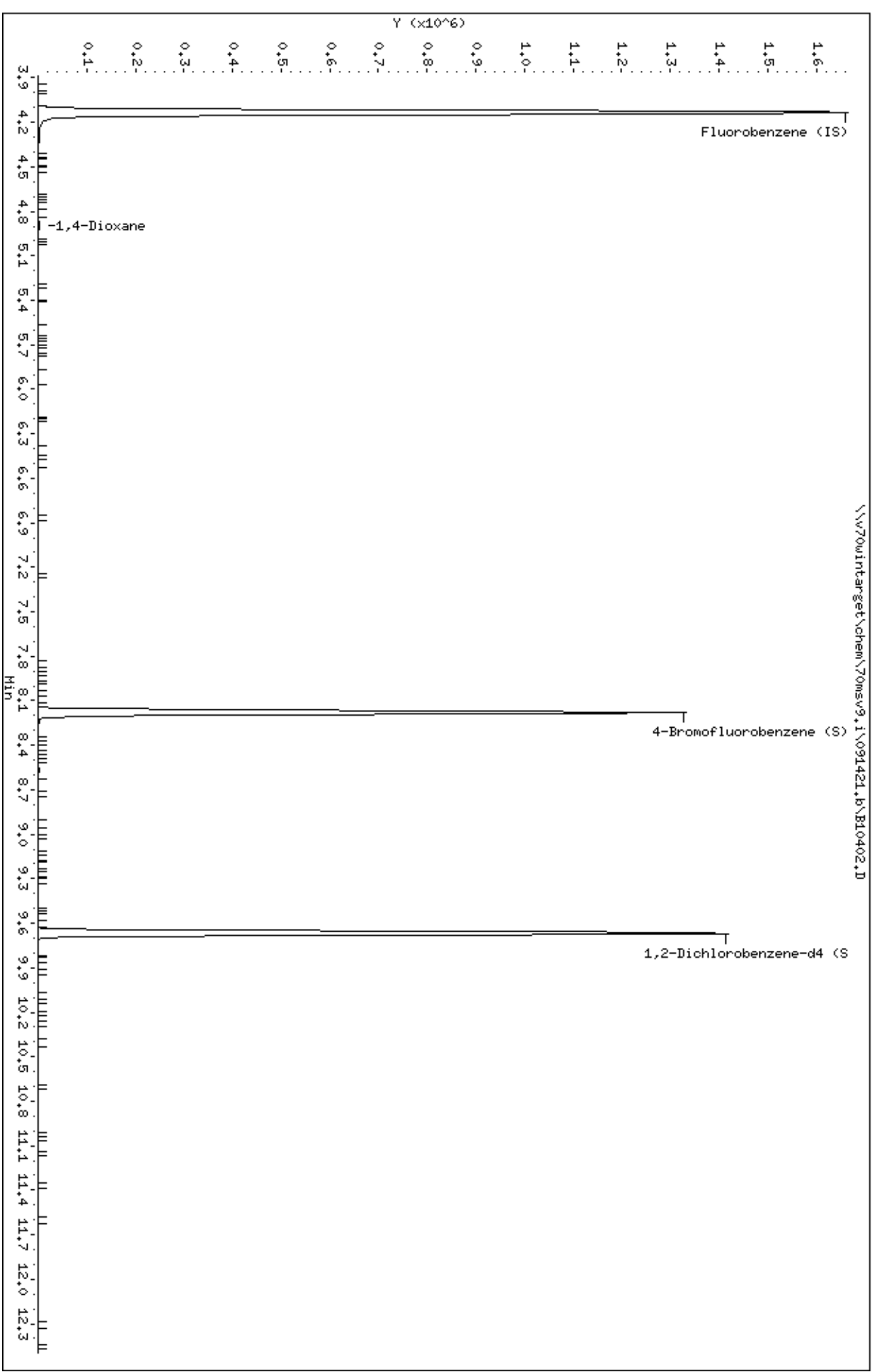
Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS				REVIEW		
			CAL-AMT	ON-COL	RT	EXP RT			
	MASS		( ug/L)	( ug/L)			C		
=====	=====		=====	=====	=====	=====	=====		
* 45 Fluorobenzene (IS)	96		5.00000		4.133	4.133	(1.000)	2340067	
188 1,4-Dioxane	88		0.50000	0.576	4.902	4.909	(1.186)	5179	
\$ 90 4-Bromofluorobenzene (S)	95		5.00000	5.55	8.179	8.180	(1.979)	783125	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		5.00000	4.94	9.668	9.668	(2.339)	653501	

Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10402.D  
Date : 14-SEP-2021 18:27  
Client ID: CAL2  
Sample Info: CAL2, 118831:1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10402.D  
Injection Date: 14-SEP-2021 18:27  
Instrument: 70msv9.i  
Lab Sample ID: CAL2  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10403.D  
 Report Date: 15-Sep-2021 14:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10403.D  
 Lab Smp Id: CAL3 Client Smp ID: CAL3  
 Inj Date : 14-SEP-2021 18:51 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : cal3, 118832:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 13:59 blagula Quant Type: ISTD  
 Cal Date : 23-SEP-2020 14:41 Cal File: B8342.D  
 Als bottle: 4 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

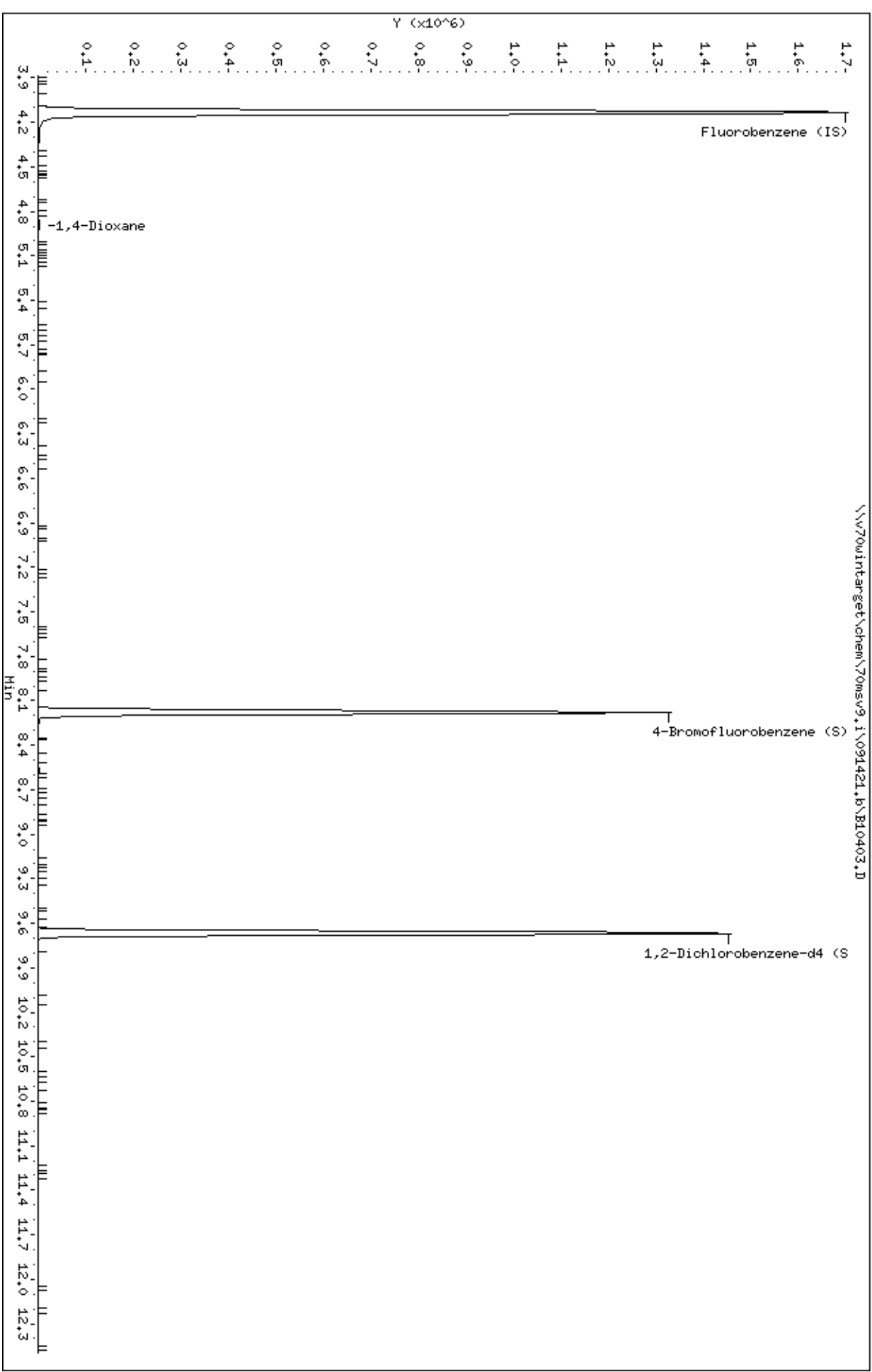
Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS				REVIEW C	
			RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)
* 45 Fluorobenzene (IS)	96		4.133	4.133	(1.000)	2375016	5.00000	
188 1,4-Dioxane	88		4.902	4.909	(1.186)	8506	1.00000	0.932
\$ 90 4-Bromofluorobenzene (S)	95		8.174	8.180	(1.978)	778303	5.00000	5.44
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.339)	669661	5.00000	4.99

Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10403.D  
Date: 14-SEP-2021 18:51  
Client ID: CAL3  
Sample Info: CAL3, 118832;1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18





Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10403.D  
Injection Date: 14-SEP-2021 18:51  
Instrument: 70msv9.i  
Lab Sample ID: CAL3  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10404.D  
 Report Date: 15-Sep-2021 14:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10404.D  
 Lab Smp Id: CAL4 Client Smp ID: CAL4  
 Inj Date : 14-SEP-2021 19:14 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : cal4, 118833:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 13:59 blagula Quant Type: ISTD  
 Cal Date : 23-SEP-2020 14:41 Cal File: B8342.D  
 Als bottle: 5 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

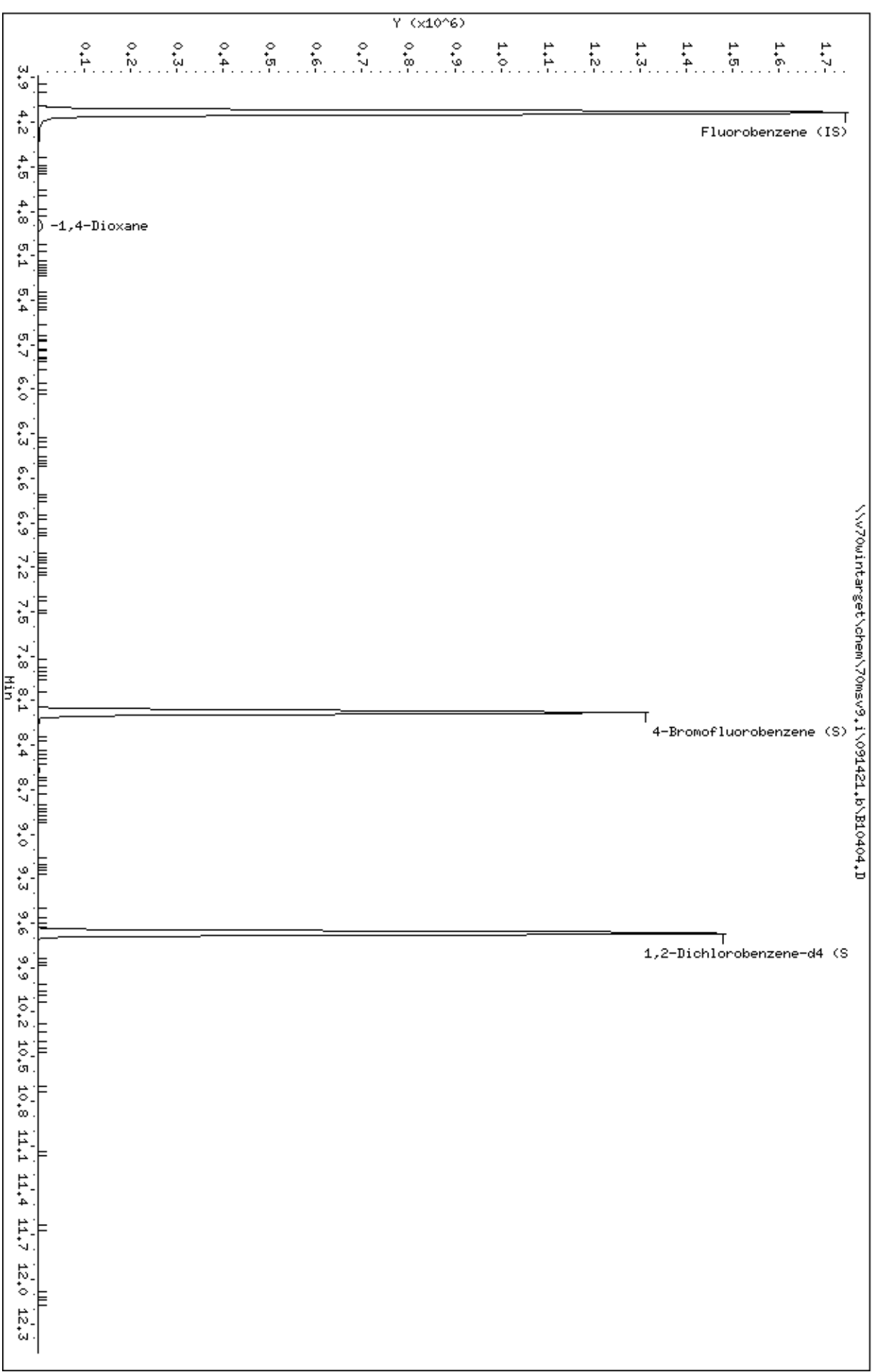
Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS				REVIEW C	
			RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)
* 45 Fluorobenzene (IS)	96		4.133	4.133	(1.000)	2435714	5.00000	
188 1,4-Dioxane	88		4.902	4.909	(1.186)	20135	2.50000	2.15
\$ 90 4-Bromofluorobenzene (S)	95		8.174	8.180	(1.978)	772354	5.00000	5.26
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.339)	685298	5.00000	4.98

Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10404.D  
Date: 14-SEP-2021 19:14  
Client ID: CAL4  
Sample Info: CAL4, 118833:1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10404.D  
Injection Date: 14-SEP-2021 19:14  
Instrument: 70msv9.i  
Lab Sample ID: CAL4  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10405.D  
 Report Date: 15-Sep-2021 14:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10405.D  
 Lab Smp Id: CAL5 Client Smp ID: CAL5  
 Inj Date : 14-SEP-2021 19:56 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : cal5, 118834:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 13:59 blagula Quant Type: ISTD  
 Cal Date : 23-SEP-2020 14:41 Cal File: B8342.D  
 Als bottle: 6 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

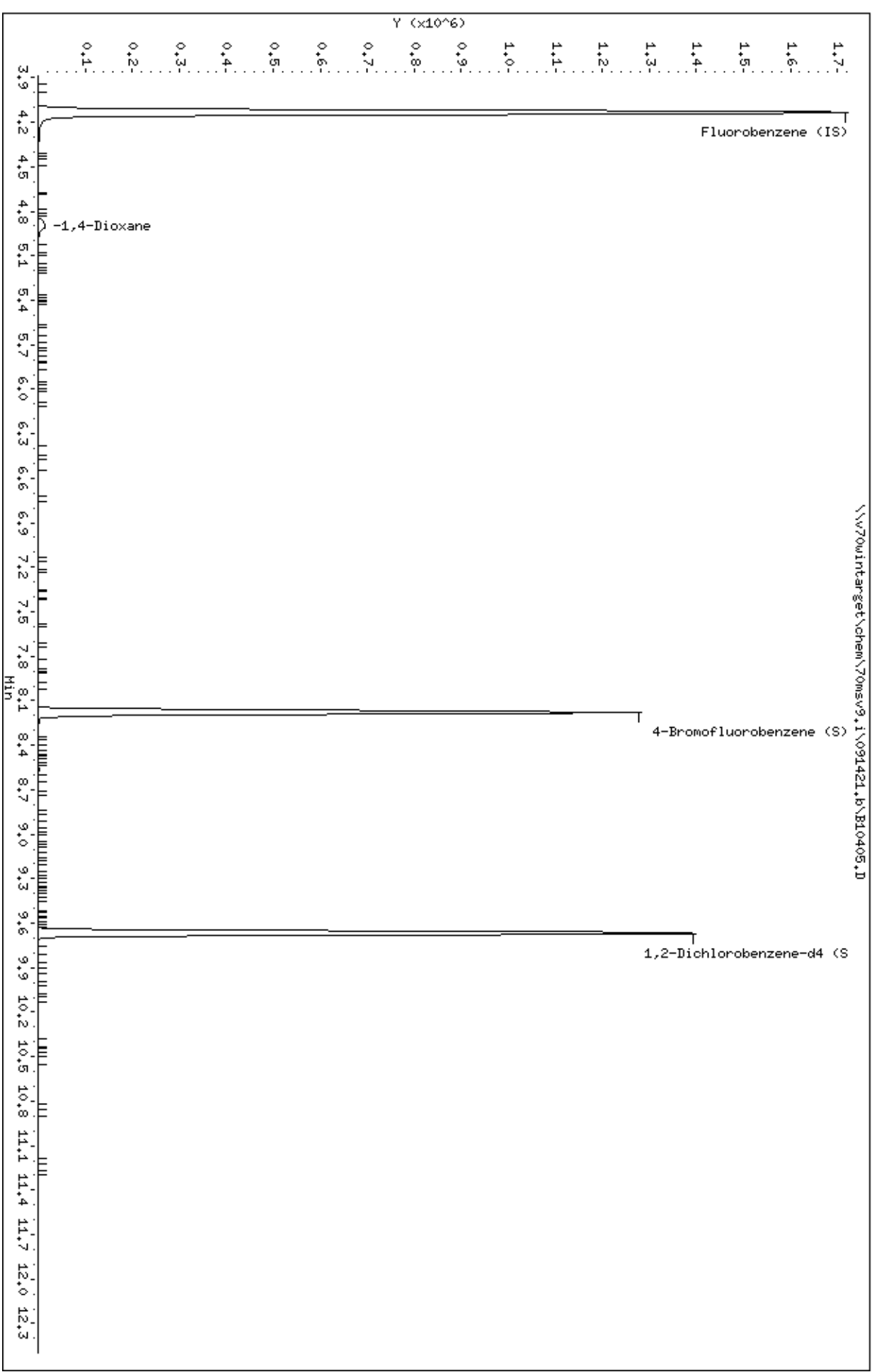
Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
* 45 Fluorobenzene (IS)	96	4.133	4.133	(1.000)	2421062	5.00000		
188 1,4-Dioxane	88	4.906	4.909	(1.187)	39411	5.00000	4.23	
\$ 90 4-Bromofluorobenzene (S)	95	8.174	8.180	(1.977)	768461	5.00000	5.27	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152	9.668	9.668	(2.339)	653346	5.00000	4.78	

Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10405.D  
Date: 14-SEP-2021 19:56  
Client ID: CAL5  
Sample Info: CAL5, 118834:1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10405.D  
Injection Date: 14-SEP-2021 19:56  
Instrument: 70msv9.i  
Lab Sample ID: CAL5  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10406.D  
 Report Date: 15-Sep-2021 14:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10406.D  
 Lab Smp Id: CAL6 Client Smp ID: CAL6  
 Inj Date : 14-SEP-2021 20:20 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : cal6, 118835:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 13:59 blagula Quant Type: ISTD  
 Cal Date : 23-SEP-2020 14:41 Cal File: B8342.D  
 Als bottle: 7 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

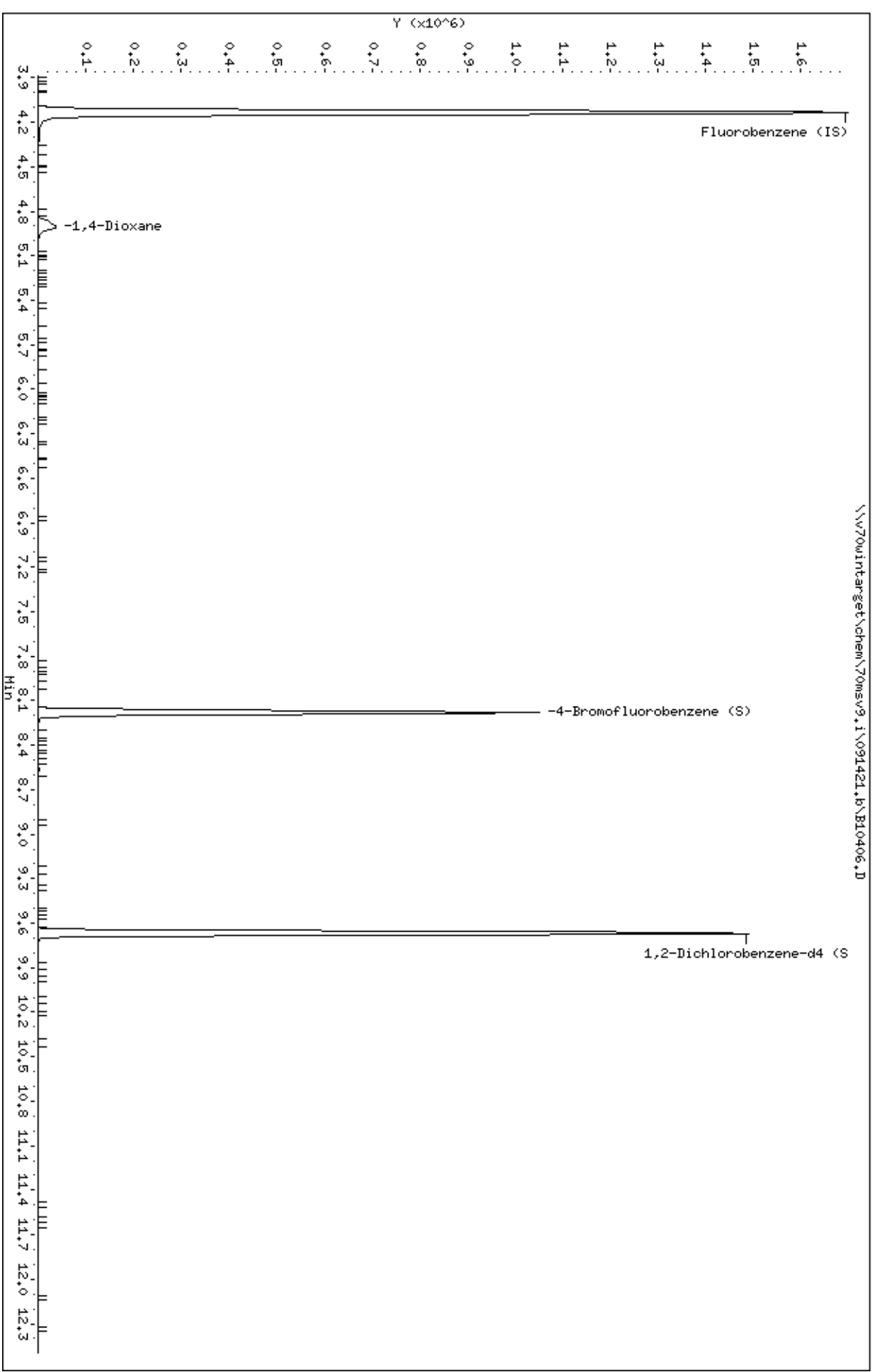
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS				REVIEW C	
			RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)
* 45 Fluorobenzene (IS)	96		4.133	4.133	(1.000)	2398731	5.00000	
188 1,4-Dioxane	88		4.905	4.909	(1.187)	88787	10.0000	9.63
\$ 90 4-Bromofluorobenzene (S)	95		8.180	8.180	(1.979)	636498	5.00000	4.40
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.339)	685996	5.00000	5.06



Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10406.D  
Date: 14-SEP-2021 20:20  
Client ID: CAL6  
Sample Info: CAL6, 118835:1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10406.D  
Injection Date: 14-SEP-2021 20:20  
Instrument: 70msv9.i  
Lab Sample ID: CAL6  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10407.D  
 Report Date: 15-Sep-2021 14:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10407.D  
 Lab Smp Id: CAL7 Client Smp ID: CAL7  
 Inj Date : 14-SEP-2021 20:43 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : cal7, 118836:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 13:59 blagula Quant Type: ISTD  
 Cal Date : 23-SEP-2020 14:41 Cal File: B8342.D  
 Als bottle: 8 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

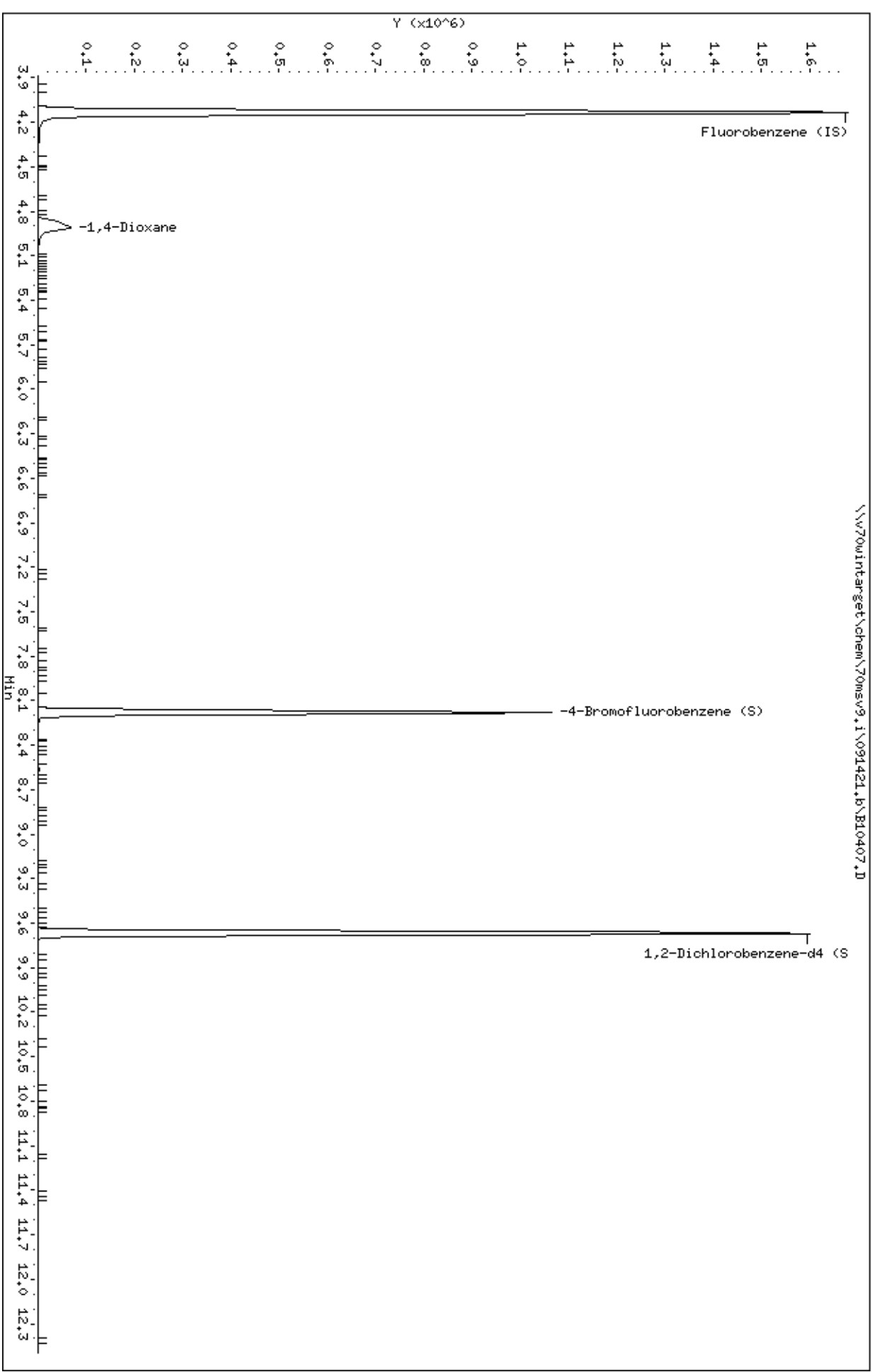
Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG					AMOUNTS		REVIEW C
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)	
* 45 Fluorobenzene (IS)	96		4.133	4.133	(1.000)	2360398	5.00000		
188 1,4-Dioxane	88		4.909	4.909	(1.188)	165388	20.0000	18.2	
\$ 90 4-Bromofluorobenzene (S)	95		8.180	8.180	(1.979)	637445	5.00000	4.48	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.339)	731403	5.00000	5.48	

Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10407.D  
Date : 14-SEP-2021 20:43  
Client ID: CAL7  
Sample Info: CAL7, 118836:1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10407.D  
Injection Date: 14-SEP-2021 20:43  
Instrument: 70msv9.i  
Lab Sample ID: CAL7  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM VII VOA-1  
MSV INITIAL CALIBRATION DATA

SAMPLE NO.

15164450ICV

Lab Name: Pace Analytical - New York

Calibration Date: 06/09/2021 Time: 19:14

Instrument ID: 70MSV8 GC Column: Col 1

Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 060921.B\P31441.D

Init. Calib. Time(s): 16:08 18:24

SDG No.: 70191351

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	50	78.72199	0.1000	57.4440*	30.0000
Benzene	Averaged	1.00002	0.98563	0.5000	-1.4384	30.0000
Bromobenzene	Averaged	0.60364	0.56244	0.0100	-6.8262	30.0000
Bromochloromethane	Averaged	0.20215	0.17442	0.0100	-13.7171	30.0000
Bromodichloromethane	Averaged	0.31166	0.28894	0.2000	-7.2903	30.0000
Bromoform	Averaged	0.22399	0.22365	0.1000	-0.1522	30.0000
Bromomethane	Averaged	0.19025	0.19494	0.1000	2.4624	30.0000
2-Butanone (MEK)	Averaged	0.29474	0.28947	0.1000	-1.7873	30.0000
n-Butylbenzene	Averaged	2.66519	2.55891	0.0100	-3.9878	30.0000
sec-Butylbenzene	Averaged	2.89914	2.70065	0.0100	-6.8466	30.0000
tert-Butylbenzene	Averaged	1.87130	1.76690	0.0100	-5.5791	30.0000
Carbon disulfide	Averaged	1.25578	1.09549	0.1000	-12.7641	30.0000
Carbon tetrachloride	Averaged	0.29725	0.29269	0.1000	-1.5323	30.0000
Chlorobenzene	Averaged	1.34664	1.25237	0.5000	-7.0006	30.0000
Chloroethane	Averaged	0.35058	0.29988	0.1000	-14.4606	30.0000
Chloroform	Averaged	0.72573	0.66359	0.2000	-8.5622	30.0000
Chloromethane	Averaged	0.60220	0.52206	0.1000	-13.3070	30.0000
2-Chlorotoluene	Averaged	2.02439	1.99080	0.0100	-1.6594	30.0000
4-Chlorotoluene	Averaged	2.23735	2.11364	0.0100	-5.5291	30.0000
1,2-Dibromo-3-chloropropane	Averaged	0.08197	0.08324	0.0500	1.5584	30.0000
Dibromochloromethane	Averaged	0.40280	0.40525	0.1000	0.6074	30.0000
1,2-Dibromoethane (EDB)	Averaged	0.19821	0.19616	0.1000	-1.0303	30.0000
Dibromomethane	Averaged	0.13938	0.13655	0.0100	-2.0307	30.0000
1,2-Dichlorobenzene	Averaged	1.05278	1.01102	0.4000	-3.9664	30.0000
1,3-Dichlorobenzene	Averaged	1.14419	1.10387	0.6000	-3.5241	30.0000
1,4-Dichlorobenzene	Averaged	1.17734	1.12126	0.5000	-4.7637	30.0000
Dichlorodifluoromethane	Averaged	0.57079	0.46440	0.1000	-18.6391	30.0000
1,1-Dichloroethane	Averaged	0.80243	0.74977	0.2000	-6.5626	30.0000
1,2-Dichloroethane	Averaged	0.52640	0.48459	0.1000	-7.9430	30.0000
1,1-Dichloroethene	Averaged	0.36586	0.35991	0.1000	-1.6256	30.0000
cis-1,2-Dichloroethene	Averaged	0.46666	0.42982	0.1000	-7.8941	30.0000
trans-1,2-Dichloroethene	Averaged	0.41771	0.38502	0.1000	-7.8253	30.0000
1,2-Dichloropropane	Averaged	0.27591	0.27096	0.1000	-1.7939	30.0000
1,3-Dichloropropane	Averaged	0.75325	0.71708	0.0100	-4.8013	30.0000
2,2-Dichloropropane	Averaged	0.51671	0.50065	0.0100	-3.1067	30.0000

\* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

11/11/2021 2:03

MSV - FORM VII VOA-2  
MSV INITIAL CALIBRATION DATA

SAMPLE NO.

15164450ICV

Lab Name: Pace Analytical - New York

Calibration Date: 06/09/2021 Time: 19:14

Instrument ID: 70MSV8 GC Column: Col 1

Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 060921.B\P31441.D

Init. Calib. Time(s): 16:08 18:24

SDG No.: 70191351

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,1-Dichloropropene	Averaged	0.37135	0.33711	0.0100	-9.2207	30.0000
cis-1,3-Dichloropropene	Averaged	0.37570	0.39475	0.2000	5.0717	30.0000
trans-1,3-Dichloropropene	Averaged	0.31757	0.33732	0.1000	6.2202	30.0000
1,4-Dioxane (p-Dioxane)	Averaged	0.00159	0.00159	0.0100	-0.4035	30.0000
Ethylbenzene	Averaged	0.78256	0.70682	0.1000	-9.6784	30.0000
Hexachloro-1,3-butadiene	Averaged	0.24609	0.22724	0.0100	-7.6584	30.0000
2-Hexanone	Averaged	0.31061	0.39546	0.1000	27.3173	30.0000
Isopropylbenzene (Cumene)	Averaged	2.73038	2.62025	0.1000	-4.0335	30.0000
p-Isopropyltoluene	Averaged	2.33978	2.22198	0.0100	-5.0346	30.0000
Methylene Chloride	Averaged	0.43591	0.37658	0.1000	-13.6090	30.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.21048	0.21740	0.1000	3.2868	30.0000
Methyl-tert-butyl ether	Averaged	1.17368	1.07652	0.1000	-8.2779	30.0000
Naphthalene	Averaged	1.17353	1.10886	0.0100	-5.5106	30.0000
n-Propylbenzene	Averaged	3.44822	3.18921	0.0100	-7.5114	30.0000
Styrene	Averaged	1.47069	1.38082	0.3000	-6.1110	30.0000
1,1,1,2-Tetrachloroethane	Averaged	0.41693	0.39689	0.0100	-4.8049	30.0000
1,1,2,2-Tetrachloroethane	Averaged	0.57969	0.59675	0.3000	2.9435	30.0000
Tetrachloroethene	Averaged	0.49744	0.45714	0.2000	-8.1011	30.0000
Toluene	Averaged	1.12177	1.04979	0.4000	-6.4162	30.0000
1,2,3-Trichlorobenzene	Averaged	0.40136	0.37156	0.0100	-7.4253	30.0000
1,2,4-Trichlorobenzene	Averaged	0.52254	0.48531	0.2000	-7.1237	30.0000
1,1,1-Trichloroethane	Averaged	0.33824	0.31383	0.1000	-7.2165	30.0000
1,1,2-Trichloroethane	Averaged	0.19096	0.18303	0.1000	-4.1529	30.0000
Trichloroethene	Averaged	0.25933	0.23808	0.2000	-8.1923	30.0000
Trichlorofluoromethane	Averaged	0.63758	0.61403	0.1000	-3.6937	30.0000
1,2,3-Trichloropropane	Averaged	0.16373	0.15104	0.0100	-7.7522	30.0000
1,2,4-Trimethylbenzene	Averaged	2.23626	2.10801	0.0100	-5.7351	30.0000
1,3,5-Trimethylbenzene	Averaged	2.22422	2.11175	0.0100	-5.0566	30.0000
Vinyl acetate	Averaged	0.89591	0.87847	0.0100	-1.9469	30.0000
Vinyl chloride	Averaged	0.64551	0.53276	0.1000	-17.4670	30.0000
m&p-Xylene	Averaged	0.94090	0.85549	0.1000	-9.0777	30.0000
o-Xylene	Averaged	0.89740	0.81382	0.3000	-9.3133	30.0000
4-Bromofluorobenzene (S)	Averaged	0.88914	0.88377	0.0100	-0.6038	30.0000
1,2-Dichloroethane-d4 (S)	Averaged	0.33223	0.33051	0.0100	-0.5172	30.0000
Toluene-d8 (S)	Averaged	2.42242	2.42312	0.0100	0.0289	30.0000

\* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

11/11/2021 2:03

MSV - FORM VII VOA-1  
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

15787323CCV

Lab Name: Pace Analytical - New York

Calibration Date: 10/20/2021 Time: 07:07

Instrument ID: 70MSV8 GC Column: Col 1

Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 102021.B\P35489.D

Init. Calib. Time(s): 16:08 18:24

SDG No.: 70191351

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	50	44.90608	0.1000	-10.1878	20.0000
Benzene	Averaged	1.00002	1.05013	0.5000	5.0113	20.0000
Bromobenzene	Averaged	0.60364	0.59250	0.0100	-1.8463	20.0000
Bromochloromethane	Averaged	0.20215	0.20573	0.0100	1.7734	20.0000
Bromodichloromethane	Averaged	0.31166	0.31436	0.2000	0.8670	20.0000
Bromoform	Averaged	0.22399	0.23048	0.1000	2.8971	20.0000
Bromomethane	Averaged	0.19025	0.10030	0.1000	-47.2798	20.0000
2-Butanone (MEK)	Averaged	0.29474	0.23196	0.1000	-21.2984	20.0000
n-Butylbenzene	Averaged	2.66519	2.43753	0.0100	-8.5422	20.0000
sec-Butylbenzene	Averaged	2.89914	2.56941	0.0100	-11.3736	20.0000
tert-Butylbenzene	Averaged	1.87130	1.74968	0.0100	-6.4993	20.0000
Carbon disulfide	Averaged	1.25578	1.25202	0.1000	-0.2993	20.0000
Carbon tetrachloride	Averaged	0.29725	0.32564	0.1000	9.5539	20.0000
Chlorobenzene	Averaged	1.34664	1.38195	0.5000	2.6221	20.0000
Chloroethane	Averaged	0.35058	0.27296	0.1000	-22.1400	20.0000
Chloroform	Averaged	0.72573	0.70270	0.2000	-3.1732	20.0000
Chloromethane	Averaged	0.60220	0.39949	0.1000	-33.6609	20.0000
2-Chlorotoluene	Averaged	2.02439	1.88626	0.0100	-6.8234	20.0000
4-Chlorotoluene	Averaged	2.23735	2.15801	0.0100	-3.5460	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.08197	0.07667	0.0500	-6.4660	20.0000
Dibromochloromethane	Averaged	0.40280	0.37852	0.1000	-6.0290	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.19821	0.19926	0.1000	0.5314	20.0000
Dibromomethane	Averaged	0.13938	0.14069	0.0100	0.9421	20.0000
1,2-Dichlorobenzene	Averaged	1.05278	1.08158	0.4000	2.7359	20.0000
1,3-Dichlorobenzene	Averaged	1.14419	1.17221	0.6000	2.4493	20.0000
1,4-Dichlorobenzene	Averaged	1.17734	1.18191	0.5000	0.3876	20.0000
Dichlorodifluoromethane	Averaged	0.57079	0.46832	0.1000	-17.9526	20.0000
1,1-Dichloroethane	Averaged	0.80243	0.77195	0.2000	-3.7974	20.0000
1,2-Dichloroethane	Averaged	0.52640	0.50447	0.1000	-4.1649	20.0000
1,1-Dichloroethene	Averaged	0.36586	0.44910	0.1000	22.7518*	20.0000
cis-1,2-Dichloroethene	Averaged	0.46666	0.47788	0.1000	2.4033	20.0000
trans-1,2-Dichloroethene	Averaged	0.41771	0.41552	0.1000	-0.5232	20.0000
1,2-Dichloropropane	Averaged	0.27591	0.27061	0.1000	-1.9211	20.0000
1,3-Dichloropropane	Averaged	0.75325	0.76534	0.0100	1.6061	20.0000
2,2-Dichloropropane	Averaged	0.51671	0.50303	0.0100	-2.6463	20.0000

\* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

11/11/2021 2:03



MSV - FORM VII VOA-2  
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

15787323CCV

Lab Name: Pace Analytical - New York

Calibration Date: 10/20/2021 Time: 07:07

Instrument ID: 70MSV8 GC Column: Col 1

Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 102021.B\P35489.D

Init. Calib. Time(s): 16:08 18:24

SDG No.: 70191351

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,1-Dichloropropene	Averaged	0.37135	0.33991	0.0100	-8.4671	20.0000
cis-1,3-Dichloropropene	Averaged	0.37570	0.39566	0.2000	5.3131	20.0000
trans-1,3-Dichloropropene	Averaged	0.31757	0.32121	0.1000	1.1460	20.0000
1,4-Dioxane (p-Dioxane)	Averaged	0.00159	0.00190	0.0100	19.0423	20.0000
Ethylbenzene	Averaged	0.78256	0.76399	0.1000	-2.3735	20.0000
Hexachloro-1,3-butadiene	Averaged	0.24609	0.19687	0.0100	-19.9987	20.0000
2-Hexanone	Averaged	0.31061	0.23538	0.1000	-24.2221	20.0000
Isopropylbenzene (Cumene)	Averaged	2.73038	2.52549	0.1000	-7.5043	20.0000
p-Isopropyltoluene	Averaged	2.33978	2.27996	0.0100	-2.5565	20.0000
Methylene Chloride	Averaged	0.43591	0.41908	0.1000	-3.8600	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.21048	0.17879	0.1000	-15.0588	20.0000
Methyl-tert-butyl ether	Averaged	1.17368	1.03608	0.1000	-11.7240	20.0000
Naphthalene	Averaged	1.17353	1.18449	0.0100	0.9340	20.0000
n-Propylbenzene	Averaged	3.44822	3.19913	0.0100	-7.2238	20.0000
Styrene	Averaged	1.47069	1.56884	0.3000	6.6737	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.41693	0.43006	0.0100	3.1513	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.57969	0.56151	0.3000	-3.1355	20.0000
Tetrachloroethene	Averaged	0.49744	0.49075	0.2000	-1.3444	20.0000
Toluene	Averaged	1.12177	1.10107	0.4000	-1.8451	20.0000
1,2,3-Trichlorobenzene	Averaged	0.40136	0.38202	0.0100	-4.8195	20.0000
1,2,4-Trichlorobenzene	Averaged	0.52254	0.52817	0.2000	1.0784	20.0000
1,1,1-Trichloroethane	Averaged	0.33824	0.32166	0.1000	-4.9023	20.0000
1,1,2-Trichloroethane	Averaged	0.19096	0.18009	0.1000	-5.6946	20.0000
Trichloroethene	Averaged	0.25933	0.25217	0.2000	-2.7584	20.0000
Trichlorofluoromethane	Averaged	0.63758	0.54097	0.1000	-15.1530	20.0000
1,2,3-Trichloropropane	Averaged	0.16373	0.15224	0.0100	-7.0176	20.0000
1,2,4-Trimethylbenzene	Averaged	2.23626	2.19698	0.0100	-1.7564	20.0000
1,3,5-Trimethylbenzene	Averaged	2.22422	2.22497	0.0100	0.0338	20.0000
Vinyl acetate	Averaged	0.89591	0.73688	0.0100	-17.7506	20.0000
Vinyl chloride	Averaged	0.64551	0.50936	0.1000	-21.0927	20.0000
m&p-Xylene	Averaged	0.94090	0.95444	0.1000	1.4393	20.0000
o-Xylene	Averaged	0.89740	0.91585	0.3000	2.0559	20.0000
4-Bromofluorobenzene (S)	Averaged	0.88914	0.87783	0.0100	-1.2720	20.0000
1,2-Dichloroethane-d4 (S)	Averaged	0.33223	0.31671	0.0100	-4.6702	20.0000
Toluene-d8 (S)	Averaged	2.42242	2.43480	0.0100	0.5112	20.0000

\* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

11/11/2021 2:03

MSV - FORM VII VOA-1  
MSV INITIAL CALIBRATION DATA

SAMPLE NO.

15626398ICV

Lab Name: Pace Analytical - New York

Calibration Date: 09/14/2021 Time: 21:12

Instrument ID: 70MSV9 GC Column: FULL

Init. Calib. Date(s): 09/14/2021 09/14/2021

Lab File ID: 091421.B\B10408.D

Init. Calib. Time(s): 18:04 20:43

SDG No.: 70191351

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,4-Dioxane (p-Dioxane)	Averaged	0.01922	0.01824	0.0100	-5.1127	30.0000
4-Bromofluorobenzene (S)	Averaged	0.30126	0.32153	0.0100	6.7270	30.0000
1,2-Dichlorobenzene-d4 (S)	Averaged	0.28253	0.28169	0.0100	-0.2987	30.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

11/11/2021 2:03

MSV - FORM VII VOA-1  
MSV CONTINUING CALIBRATION DATA

SAMPLE NO.

15786340CCV

Lab Name: Pace Analytical - New York

Calibration Date: 10/20/2021 Time: 14:54

Instrument ID: 70MSV9 GC Column: FULL

Init. Calib. Date(s): 09/14/2021 09/14/2021

Lab File ID: 102021.B\B10652.D

Init. Calib. Time(s): 18:04 20:43

SDG No.: 70191351

COMPOUND	CURVE	RRF or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,4-Dioxane (p-Dioxane)	Averaged	0.01922	0.01596	0.0100	-16.9376	20.0000
4-Bromofluorobenzene (S)	Averaged	0.30126	0.31003	0.0100	2.9097	20.0000
1,2-Dichlorobenzene-d4 (S)	Averaged	0.28253	0.30741	0.0100	8.8056	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

11/11/2021 2:03

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\060921.b\P31441.D  
 Lab Smp Id: ICV Client Smp ID: ICV  
 Inj Date : 09-JUN-2021 19:14 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : BBL Inst ID: 70msv8.i  
 Smp Info : icv, 113084:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\060921.b\060921\_8260W.m  
 Meth Date : 09-Jun-2021 21:25 70msv8.i Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 19 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					REVIEW C	
			MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)
1 Chlorodifluoromethane	51		0.989	0.989	(0.268)	182671	50.0000	47.5	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.286)	89809	50.0000	45.6	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.263)	165087	50.0000	40.7 (Q)	
4 Chloromethane	50		1.104	1.104	(0.299)	185585	50.0000	43.3	
5 Vinyl chloride	62		1.172	1.172	(0.318)	189388	50.0000	41.3	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	172240	50.0000	48.8	
7 Acetaldehyde	44		1.263	1.263	(0.342)	13482	50.0000	41.3	
8 Bromomethane	94		1.391	1.391	(0.377)	69297	50.0000	51.2	
9 Chloroethane	64		1.458	1.458	(0.395)	106604	50.0000	42.8	
10 Dichlorofluoromethane	67		1.598	1.598	(0.433)	251969	50.0000	46.0	
11 Trichlorofluoromethane	101		1.598	1.598	(0.433)	218278	50.0000	48.2	
12 Ethanol	45		1.787	1.787	(0.484)	17305	1250.00	1240 (QM)	GT
13 Diethyl ether (Ethyl ether)	59		1.799	1.799	(0.488)	109363	50.0000	41.5	
16 1,1,2-Trichlorotrifluoroethane	101		1.927	1.927	(0.522)	140154	50.0000	46.6	
14 Acrolein	56		1.934	1.934	(0.524)	15639	50.0000	46.1	
15 1,1-Dichloroethene	96		1.946	1.946	(0.527)	127942	50.0000	49.2	
17 Acetone	43		2.037	2.037	(0.552)	67972	50.0000	78.7	
18 Iodomethane	142		2.068	2.068	(0.561)	23675	50.0000	18.8	
19 2-Propanol	45		2.129	2.129	(0.577)	127934	1250.00	1350	
20 Carbon disulfide	76		2.086	2.086	(0.565)	389427	50.0000	43.6	
21 Allyl chloride	76		2.214	2.214	(0.600)	76867	50.0000	42.3	
22 Acetonitrile	41		2.281	2.281	(0.618)	81781	250.000	238	
23 Methyl acetate	43		2.238	2.238	(0.607)	219096	50.0000	51.7	

Compounds	QUANT SIG		AMOUNTS					REVIEW C	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)		
24 Methylene Chloride	84	2.318	2.318	(0.628)	133869	50.0000	43.2		
25 tert-Butyl Alcohol	59	2.397	2.397	(0.650)	40830	250.000	264		
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.666)	382686	50.0000	45.9		
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.670)	136869	50.0000	46.1		
26 Acrylonitrile	53	2.543	2.543	(0.689)	44720	50.0000	47.2		
30 n-Hexane	57	2.604	2.604	(0.706)	273099	50.0000	52.3		
29 Diisopropyl ether	45	2.793	2.793	(0.757)	524284	50.0000	49.0		
32 Vinyl acetate	43	2.836	2.836	(0.769)	312280	50.0000	49.0		
31 1,1-Dichloroethane	63	2.805	2.805	(0.760)	266529	50.0000	46.7		
33 Chloroprene	53	2.842	2.842	(0.770)	202945	50.0000	47.8		
34 Ethyl-tert-butyl ether	59	3.068	3.068	(0.831)	452501	50.0000	47.8		
36 2,2-Dichloropropane	77	3.226	3.226	(0.874)	177974	50.0000	48.4		
35 cis-1,2-Dichloroethene	96	3.256	3.256	(0.883)	152795	50.0000	46.0		
39 Ethyl acetate	61	3.256	3.256	(0.883)	228868	50.0000	44.7		
37 2-Butanone (MEK)	43	3.293	3.293	(0.893)	102901	50.0000	49.1		
41 Bromochloromethane	128	3.452	3.452	(0.936)	62003	50.0000	43.1		
42 Tetrahydrofuran	42	3.458	3.458	(0.937)	39004	50.0000	42.4		
43 Chloroform	83	3.506	3.506	(0.950)	235896	50.0000	45.7		
38 Propionitrile	54	3.403	3.403	(0.922)	17635	50.0000	48.3		
46 Cyclohexane	56	3.592	3.592	(0.974)	304230	50.0000	44.2		
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	191313	50.0000	46.4		
* 44 Pentafluorobenzene (IS)	168	3.689	3.689	(1.000)	355483	50.0000			
48 Carbon tetrachloride	117	3.714	3.714	(0.861)	178425	50.0000	49.2		
47 1,1-Dichloropropene	75	3.750	3.750	(0.870)	205504	50.0000	45.4		
55 2,2,4-Trimethylpentane	57	3.903	3.903	(1.058)	480213	50.0000	53.2		
51 Benzene	78	3.927	3.927	(0.911)	600844	50.0000	49.3		
40 Methacrylonitrile	67	3.488	3.488	(0.945)	57582	50.0000	49.6		
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.951	3.951	(0.917)	201480	50.0000	49.7		
56 tert-Amylmethyl ether	73	4.000	4.000	(1.084)	402020	50.0000	49.8		
52 1,2-Dichloroethane	62	4.019	4.019	(1.089)	172262	50.0000	46.0		
57 n-Heptane	43	4.079	4.079	(1.106)	252030	50.0000	48.7		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	609603	50.0000			
59 Trichloroethene	95	4.512	4.512	(1.047)	145136	50.0000	45.9		
60 Methylcyclohexane	83	4.610	4.610	(1.069)	291796	50.0000	46.7		
49 Isobutanol	43	3.909	3.909	(1.059)	101499	250.000	250		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(D)
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.278)	355397	50.0000	50.2		
61 1,2-Dichloropropane	63	4.774	4.774	(1.107)	165179	50.0000	49.1		
63 Methyl methacrylate	69	4.878	4.878	(1.131)	100975	50.0000	52.5		
64 1,4-Dioxane (p-Dioxane)	88	4.903	4.903	(1.137)	24204	1250.00	1240		
62 Dibromomethane	93	4.890	4.890	(1.134)	83239	50.0000	49.0		
65 Bromodichloromethane	83	5.037	5.037	(1.168)	176138	50.0000	46.4		
66 2-Nitropropane	43	5.366	5.366	(1.245)	42698	50.0000	28.4		
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	18818	50.0000	14.0		
68 cis-1,3-Dichloropropene	75	5.506	5.506	(1.277)	240643	50.0000	52.5		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	132528	50.0000	51.6		
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	751137	50.0000	50.0		
71 Toluene	91	5.799	5.799	(1.345)	639957	50.0000	46.8		
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	240319	125.000	140		
74 trans-1,3-Dichloropropene	75	6.146	6.146	(1.426)	205633	50.0000	53.1		
75 Ethyl methacrylate	69	6.201	6.201	(1.438)	184541	50.0000	52.1		
76 1,1,2-Trichloroethane	83	6.347	6.347	(1.472)	111575	50.0000	47.9		
77 Tetrachloroethene	166	6.360	6.360	(0.856)	141708	50.0000	45.9		
78 1,3-Dichloropropane	76	6.542	6.542	(0.880)	222286	50.0000	47.6		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
						CAL-AMT ( ug/L)	ON-COL ( ug/L)	
79 2-Hexanone	43	6.628	6.628	(0.892)	122589	50.0000	63.6	
73 n-Octane	43	5.860	5.860	(1.359)	198667	50.0000	43.9 (Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	2748	50.0000	3.52	
80 Dibromochloromethane	129	6.750	6.750	(0.908)	125622	50.0000	50.3	
82 1,2-Dibromoethane (EDB)	107	6.884	6.884	(1.597)	119582	50.0000	49.5	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.433	(1.000)	309988	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	388220	50.0000	46.5	
86 Ethylbenzene	106	7.603	7.603	(1.023)	219107	50.0000	45.2	
85 1,1,1,2-Tetrachloroethane	131	7.609	7.609	(1.024)	123032	50.0000	47.6	
88 n-Nonane	43	7.768	7.768	(1.045)	131781	50.0000	40.3 (Q)	
87 m&p-Xylene	106	7.780	7.780	(1.047)	530382	100.000	90.9	
89 o-Xylene	106	8.365	8.365	(1.125)	252275	50.0000	45.3	
90 Styrene	104	8.408	8.408	(1.131)	428037	50.0000	46.9	
91 Bromoform	173	8.646	8.646	(1.163)	69329	50.0000	49.9	
92 Isopropylbenzene (Cumene)	105	8.816	8.816	(0.875)	692087	50.0000	48.0	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	273959	50.0000	49.7	
94 Bromobenzene	156	9.146	9.146	(0.908)	148556	50.0000	46.6	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	157620	50.0000	51.5	
98 n-Propylbenzene	91	9.255	9.255	(0.919)	842366	50.0000	46.2	
96 1,2,3-Trichloropropane	110	9.274	9.274	(0.921)	39893	50.0000	46.1	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	37623	50.0000	60.2	
103 n-Decane	43	9.420	9.420	(1.267)	104673	50.0000	41.2 (Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	525830	50.0000	49.2	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	715908	50.0000	47.4	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	557777	50.0000	47.5	
102 4-Chlorotoluene	91	9.456	9.456	(0.939)	558276	50.0000	47.2	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	466691	50.0000	47.2	
105 Pentachloroethane	167	9.755	9.755	(0.969)	85865	50.0000	51.0	
106 1,2,4-Trimethylbenzene	105	9.774	9.774	(0.970)	556788	50.0000	47.1	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	713323	50.0000	46.6	
109 d-Limonene	136	9.975	9.975	(1.342)	26676	50.0000	51.7	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	586891	50.0000	47.5	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	291564	50.0000	48.2	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	264130	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	296158	50.0000	47.6	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	569482	50.0000	47.1	
114 Benzyl chloride	91	10.225	10.225	(1.015)	200290	50.0000	47.8	
115 trans-Decalin	138	10.292	10.292	(1.022)	90457	50.0000	45.1	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	346262	50.0000	49.5	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	675885	50.0000	48.0	
119 n-Undecane	43	10.444	10.444	(1.037)	82402	50.0000	52.4 (Q)	
118 1,2-Dichlorobenzene	146	10.408	10.408	(1.033)	267041	50.0000	48.0	
120 cis-Decalin	138	10.816	10.816	(1.074)	68936	50.0000	45.6	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	468654	50.0000	48.2	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	21987	50.0000	50.8	
123 n-Dodecane	43	11.584	11.584	(1.150)	53946	50.0000	77.9 (Q)	
124 1,2,4-Trichlorobenzene	180	12.194	12.194	(1.211)	128186	50.0000	46.4	
125 Hexachloro-1,3-butadiene	225	12.383	12.383	(1.229)	60021	50.0000	46.2	
126 Naphthalene	128	12.560	12.560	(1.247)	292884	50.0000	47.2	
127 1,2,3-Trichlorobenzene	180	12.962	12.962	(1.287)	98140	50.0000	46.3	

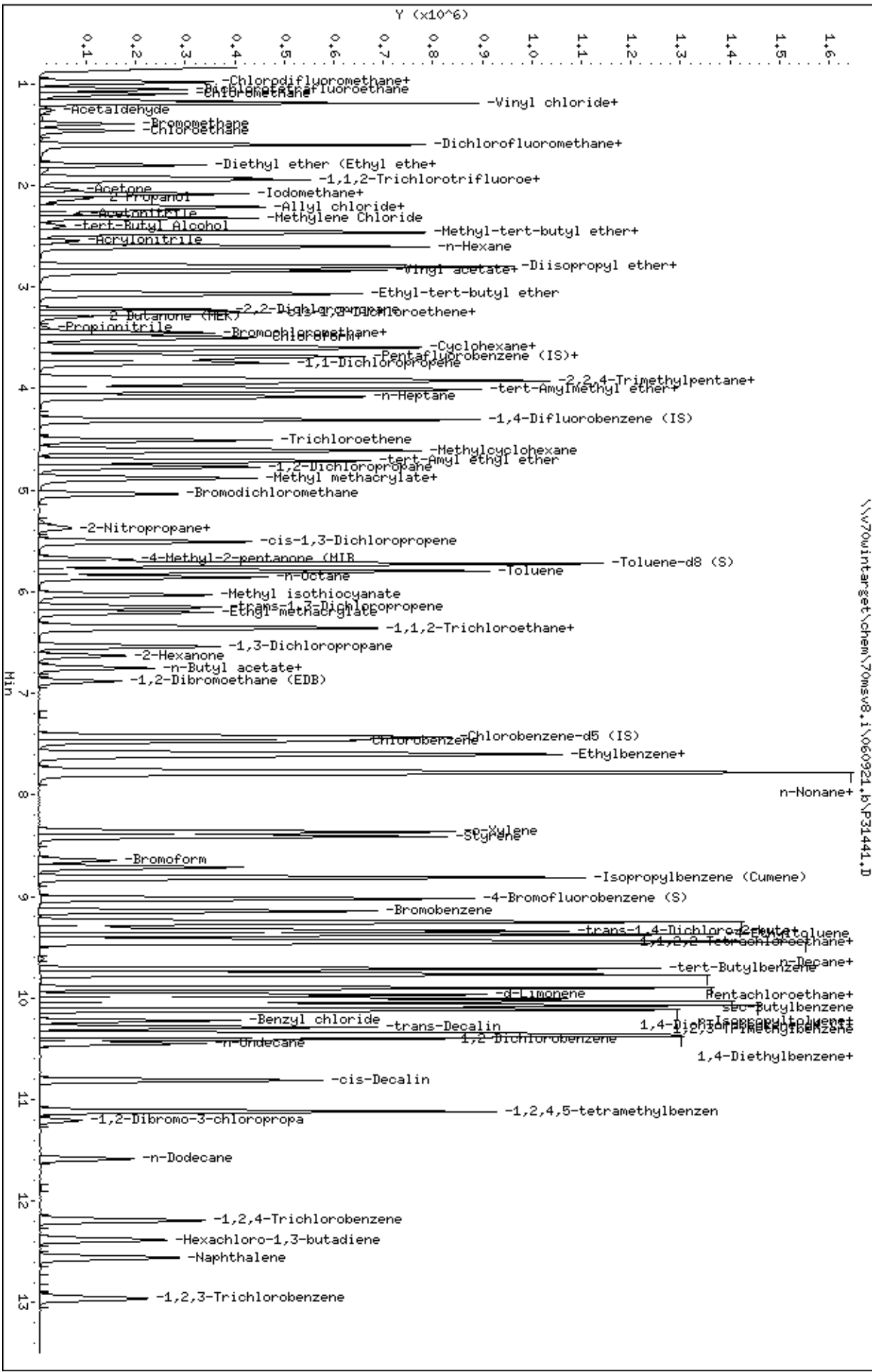
Data File: \\v70wintarget\chem\70msv8.i\060921.b\P31441.D  
Report Date: 09-Jun-2021 21:25

#### QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.  
D - User disabled compound identification.

#### Review Codes Legend

:  
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).





Data File: \\v70wintarget\chem\70msv8.i\060921.b/P31441.D

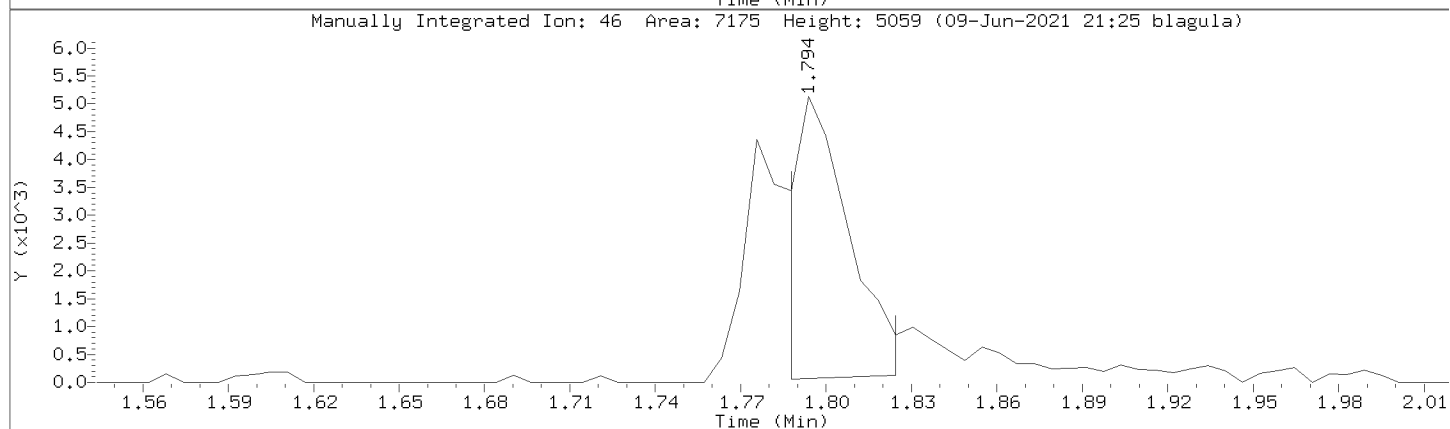
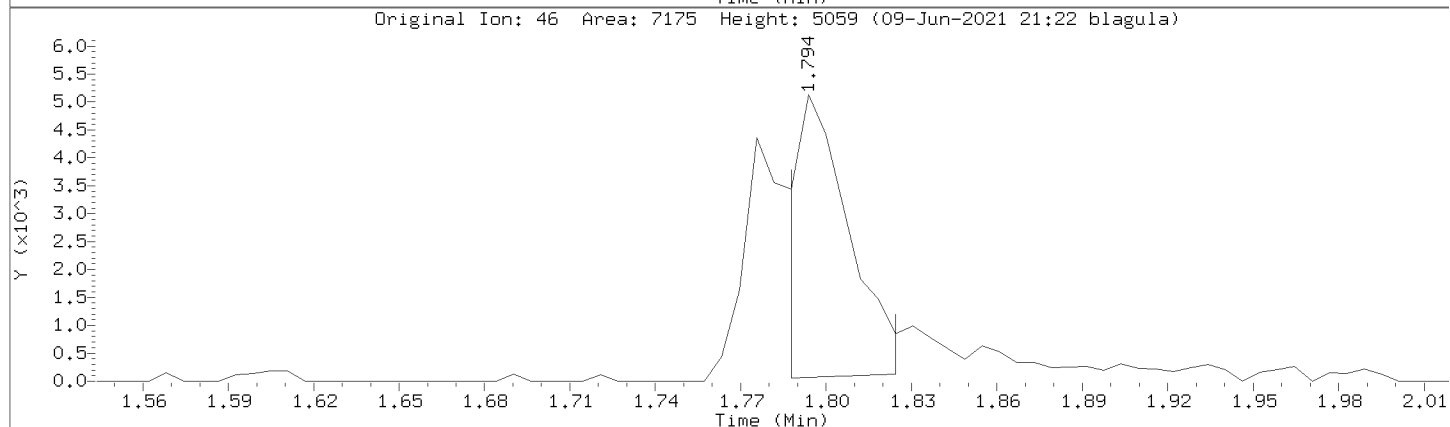
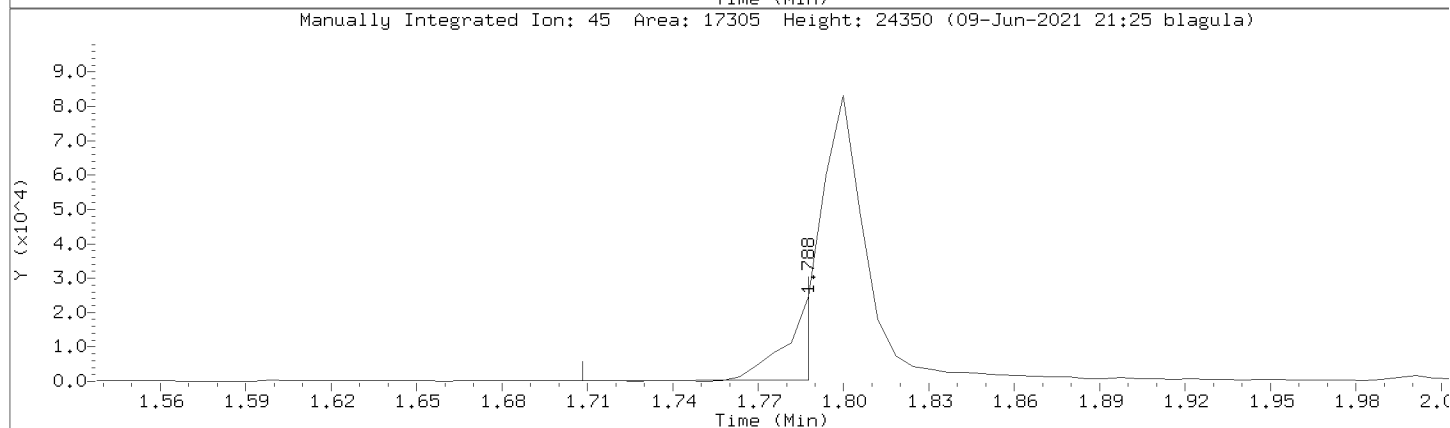
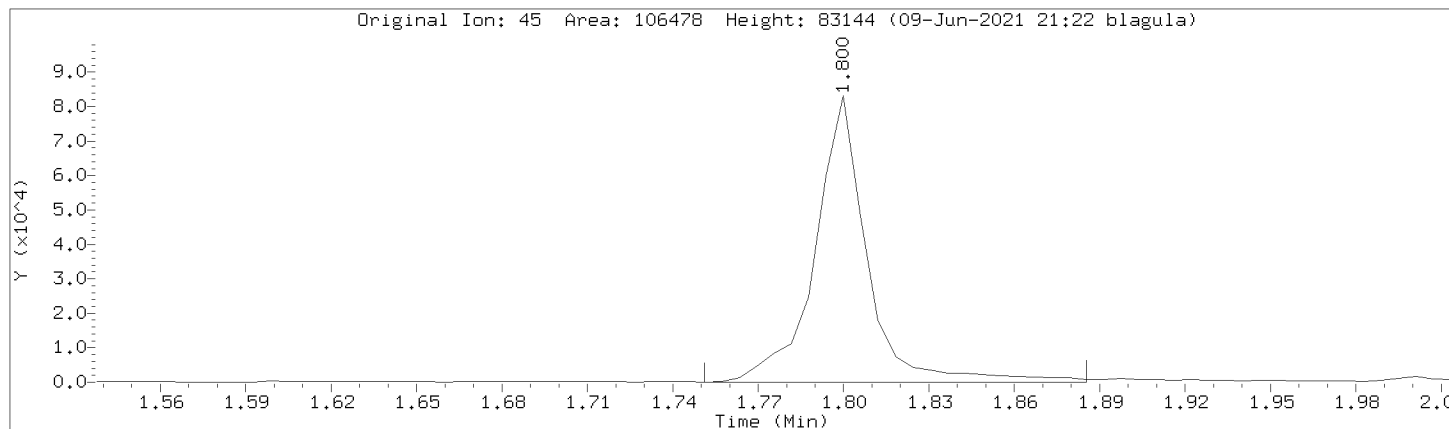
Injection Date: 09-JUN-2021 19:14

Instrument: 70msv8.i

Lab Sample ID: ICV

Compound: Ethanol Review Code: GT

CAS Number:



Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35489.D  
 Lab Smp Id: CCV Client Smp ID: CCV  
 Inj Date : 20-OCT-2021 07:07 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : ccv, 121203:1  
 Misc Info : 11823,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 2 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
							CAL-AMT ( ug/L)	ON-COL ( ug/L)	
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	146086	50.0000	39.3	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	81682	50.0000	42.9	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.264)	160963	50.0000	41.0 (Q)	
4 Chloromethane	50		1.104	1.104	(0.300)	137307	50.0000	33.2	
5 Vinyl chloride	62		1.172	1.172	(0.318)	175068	50.0000	39.4	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	142563	50.0000	41.8	
7 Acetaldehyde	44		1.263	1.263	(0.343)	17875	50.0000	56.7	
8 Bromomethane	94		1.391	1.391	(0.378)	34474	50.0000	26.4	
9 Chloroethane	64		1.458	1.458	(0.396)	93818	50.0000	38.9	
10 Dichlorofluoromethane	67		1.598	1.598	(0.434)	233073	50.0000	44.0	
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	185933	50.0000	42.4	
12 Ethanol	45		1.799	1.799	(0.489)	132972	1250.00	9850 (A)	
13 Diethyl ether (Ethyl ether)	59		1.799	1.799	(0.489)	140596	50.0000	55.2	
16 1,1,2-Trichlorotrifluoroethane	101		1.921	1.921	(0.522)	147185	50.0000	50.6	
14 Acrolein	56		1.934	1.934	(0.525)	19498	50.0000	59.4	
15 1,1-Dichloroethene	96		1.946	1.946	(0.528)	154356	50.0000	61.4	
17 Acetone	43		2.037	2.037	(0.553)	39325	50.0000	44.9	
18 Iodomethane	142		2.062	2.062	(0.560)	52469	50.0000	36.8	
19 2-Propanol	45		2.123	2.123	(0.576)	113149	1250.00	1230	
20 Carbon disulfide	76		2.086	2.086	(0.566)	430322	50.0000	49.8	
21 Allyl chloride	76		2.214	2.214	(0.601)	81793	50.0000	46.6	
22 Acetonitrile	41		2.275	2.275	(0.618)	64364	250.000	194	

Compounds	QUANT SIG		AMOUNTS					REVIEW C
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)	
23 Methyl acetate	43	2.232	2.232	(0.606)	166382	50.0000	40.6	
24 Methylene Chloride	84	2.318	2.318	(0.629)	144039	50.0000	48.1	
25 tert-Butyl Alcohol	59	2.397	2.397	(0.651)	36663	250.000	245	
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.667)	356103	50.0000	44.1	
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.671)	142817	50.0000	49.7	
26 Acrylonitrile	53	2.543	2.543	(0.691)	41072	50.0000	44.8	
30 n-Hexane	57	2.604	2.604	(0.707)	226542	50.0000	44.9	
29 Diisopropyl ether	45	2.793	2.793	(0.758)	469461	50.0000	45.4	
32 Vinyl acetate	43	2.836	2.836	(0.770)	253268	50.0000	41.1	
31 1,1-Dichloroethane	63	2.805	2.805	(0.762)	265323	50.0000	48.1	
33 Chloroprene	53	2.842	2.842	(0.772)	211129	50.0000	51.5	
34 Ethyl-tert-butyl ether	59	3.068	3.068	(0.833)	383005	50.0000	41.8	
36 2,2-Dichloropropane	77	3.226	3.226	(0.876)	172894	50.0000	48.7	
35 cis-1,2-Dichloroethene	96	3.250	3.250	(0.882)	164248	50.0000	51.2	
39 Ethyl acetate	61	3.250	3.250	(0.882)	231664	50.0000	46.8	
37 2-Butanone (MEK)	43	3.293	3.293	(0.894)	79726	50.0000	39.4	
41 Bromochloromethane	128	3.446	3.446	(0.935)	70711	50.0000	50.9	
42 Tetrahydrofuran	42	3.458	3.458	(0.939)	33784	50.0000	37.9	
43 Chloroform	83	3.500	3.500	(0.950)	241521	50.0000	48.4	
38 Propionitrile	54	3.397	3.397	(0.922)	16128	50.0000	45.7	
46 Cyclohexane	56	3.592	3.592	(0.975)	274754	50.0000	41.3	
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	190454	50.0000	47.5	
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	343703	50.0000		
48 Carbon tetrachloride	117	3.714	3.714	(0.861)	192813	50.0000	54.8	
47 1,1-Dichloropropene	75	3.750	3.750	(0.870)	201260	50.0000	45.8	
55 2,2,4-Trimethylpentane	57	3.903	3.903	(1.060)	336959	50.0000	38.6	
51 Benzene	78	3.921	3.921	(0.909)	621780	50.0000	52.5	
40 Methacrylonitrile	67	3.488	3.488	(0.947)	54972	50.0000	49.0	
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.945	3.945	(0.915)	187525	50.0000	47.7	
56 tert-Amylmethyl ether	73	4.000	4.000	(1.086)	342535	50.0000	43.9	
52 1,2-Dichloroethane	62	4.012	4.012	(1.089)	173389	50.0000	47.9	
57 n-Heptane	43	4.080	4.080	(1.108)	184349	50.0000	36.9	
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	592098	50.0000		
59 Trichloroethene	95	4.506	4.506	(1.045)	149312	50.0000	48.6	
60 Methylcyclohexane	83	4.610	4.610	(1.069)	270576	50.0000	44.6	
49 Isobutanol	43	3.909	3.909	(1.061)	70709	250.000	180	
53 tert-Amyl Alcohol	59	3.982	3.982	(1.081)	8321	50.0000		
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.280)	283484	50.0000	41.4	
61 1,2-Dichloropropane	63	4.768	4.768	(1.106)	160228	50.0000	49.0	
63 Methyl methacrylate	69	4.872	4.872	(1.130)	87687	50.0000	47.0	
64 1,4-Dioxane (p-Dioxane)	88	4.903	4.903	(1.137)	28099	1250.00	1490	
62 Dibromomethane	93	4.884	4.884	(1.133)	83302	50.0000	50.5	
65 Bromodichloromethane	83	5.037	5.037	(1.168)	186133	50.0000	50.4	
66 2-Nitropropane	43	5.366	5.366	(1.245)	52881	50.0000	36.3	
67 2-Chloroethylvinyl ether	63	5.378	5.378	(1.247)	41715	50.0000	32.0	
68 cis-1,3-Dichloropropene	75	5.506	5.506	(1.277)	234270	50.0000	52.6	
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	105859	50.0000	42.5	
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.771)	725230	50.0000	50.2	
71 Toluene	91	5.799	5.799	(1.345)	651941	50.0000	49.1	
72 Methyl isothiocyanate	73	6.030	6.030	(1.399)	188535	125.000	113	
74 trans-1,3-Dichloropropene	75	6.146	6.146	(1.426)	190187	50.0000	50.6	
75 Ethyl methacrylate	69	6.201	6.201	(1.438)	161126	50.0000	46.8	
76 1,1,2-Trichloroethane	83	6.341	6.341	(1.471)	106628	50.0000	47.2	
77 Tetrachloroethene	166	6.360	6.360	(0.856)	146175	50.0000	49.3	

Compounds	QUANT SIG		AMOUNTS					REVIEW C
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)	
78 1,3-Dichloropropane	76	6.536	6.536	(0.880)	227965	50.0000	50.8	
79 2-Hexanone	43	6.628	6.628	(0.892)	70109	50.0000	37.9	
73 n-Octane	43	5.860	5.860	(1.359)	155976	50.0000	35.5 (Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	36400	50.0000	48.0	
80 Dibromochloromethane	129	6.750	6.750	(0.909)	112745	50.0000	47.0	
82 1,2-Dibromoethane (EDB)	107	6.878	6.878	(1.595)	117981	50.0000	50.3	
* 83 Chlorobenzene-d5 (IS)	82	7.426	7.426	(1.000)	297860	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.006)	411629	50.0000	51.3	
86 Ethylbenzene	106	7.603	7.603	(1.024)	227562	50.0000	48.8	
85 1,1,1,2-Tetrachloroethane	131	7.609	7.609	(1.025)	128099	50.0000	51.6	
88 n-Nonane	43	7.762	7.762	(1.045)	109980	50.0000	35.0 (Q)	
87 m&p-Xylene	106	7.780	7.780	(1.048)	568580	100.000	101	
89 o-Xylene	106	8.365	8.365	(1.126)	272795	50.0000	51.0	
90 Styrene	104	8.408	8.408	(1.132)	467295	50.0000	53.3	
91 Bromoform	173	8.646	8.646	(1.164)	68651	50.0000	51.4	
92 Isopropylbenzene (Cumene)	105	8.816	8.816	(0.875)	672138	50.0000	46.2	
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.215)	261471	50.0000	49.4	
94 Bromobenzene	156	9.146	9.146	(0.908)	157688	50.0000	49.1	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	149442	50.0000	48.4	
98 n-Propylbenzene	91	9.249	9.249	(0.918)	851422	50.0000	46.4	
96 1,2,3-Trichloropropane	110	9.274	9.274	(0.921)	40517	50.0000	46.5	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	33907	50.0000	53.8	
103 n-Decane	43	9.420	9.420	(1.268)	91504	50.0000	37.5 (Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	502013	50.0000	46.6	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	699819	50.0000	46.0	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	592159	50.0000	50.0	
102 4-Chlorotoluene	91	9.457	9.457	(0.939)	574337	50.0000	48.2	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	465663	50.0000	46.8	
105 Pentachloroethane	167	9.749	9.749	(0.968)	84110	50.0000	49.6	
106 1,2,4-Trimethylbenzene	105	9.767	9.767	(0.970)	584709	50.0000	49.1	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	683827	50.0000	44.3	
109 d-Limonene	136	9.969	9.969	(1.342)	23910	50.0000	48.2	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	606793	50.0000	48.7	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	311975	50.0000	51.2	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	266142	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	314555	50.0000	50.2	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	592339	50.0000	48.6	
114 Benzyl chloride	91	10.225	10.225	(1.015)	177613	50.0000	42.7	
115 trans-Decalin	138	10.292	10.292	(1.022)	80667	50.0000	39.9	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	318296	50.0000	45.2	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	648728	50.0000	45.7	
119 n-Undecane	43	10.450	10.450	(1.038)	84073	50.0000	58.4 (Q)	
118 1,2-Dichlorobenzene	146	10.401	10.401	(1.033)	287854	50.0000	51.4	
120 cis-Decalin	138	10.816	10.816	(1.074)	61500	50.0000	40.4	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	482668	50.0000	49.3	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	20404	50.0000	46.8	
123 n-Dodecane	43	11.584	11.584	(1.150)	71992	50.0000	115 (Q)	
124 1,2,4-Trichlorobenzene	180	12.188	12.188	(1.210)	140569	50.0000	50.5	
125 Hexachloro-1,3-butadiene	225	12.383	12.383	(1.229)	52396	50.0000	40.0	
126 Naphthalene	128	12.560	12.560	(1.247)	315243	50.0000	50.5	
127 1,2,3-Trichlorobenzene	180	12.956	12.956	(1.286)	101671	50.0000	47.6	

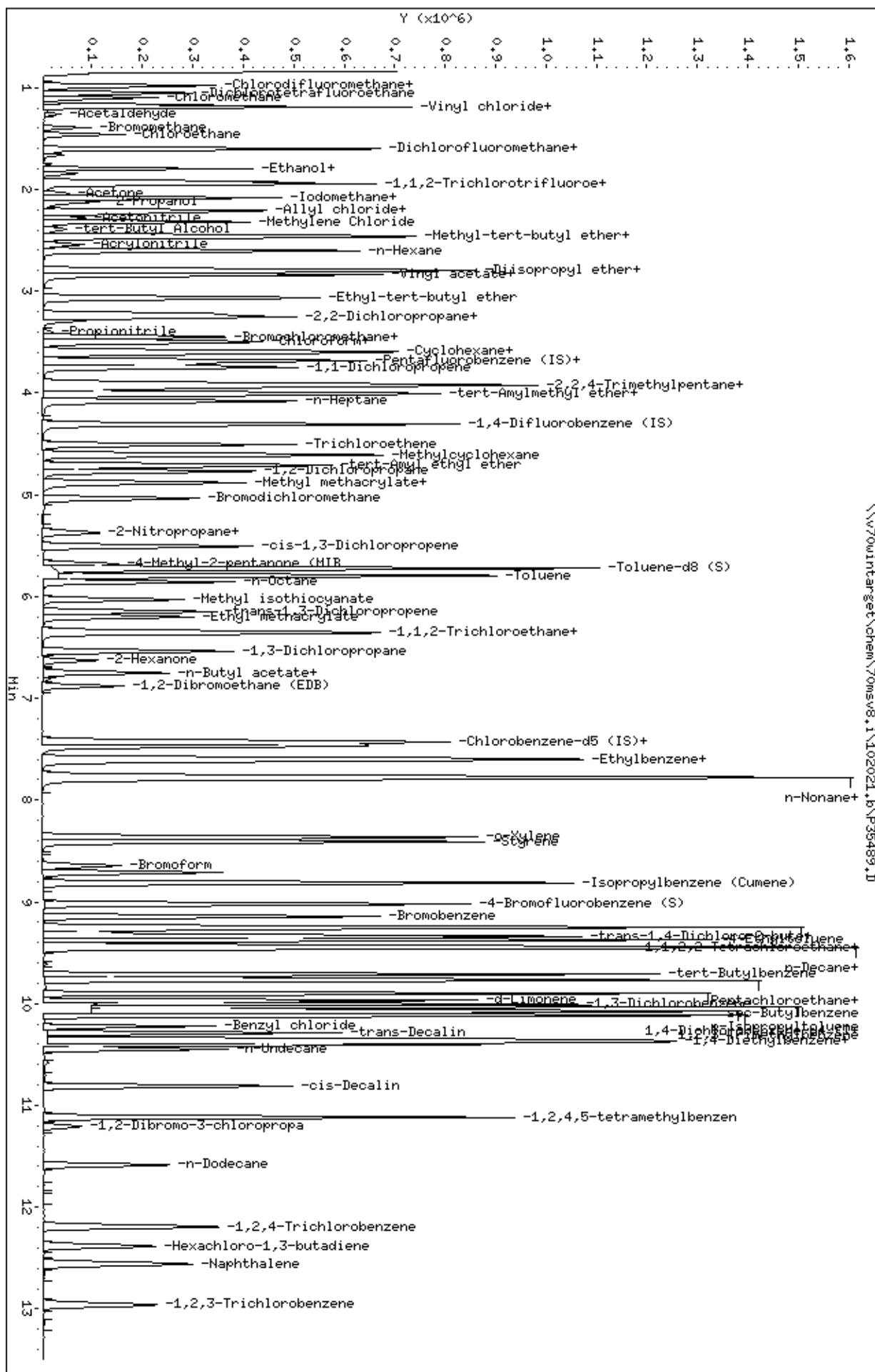
Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35489.D  
Report Date: 21-Oct-2021 11:08

#### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.

#### Review Codes Legend

:



Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35489.D  
Injection Date: 20-OCT-2021 07:07  
Instrument: 70msv8.i  
Lab Sample ID: CCV  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\v70wintarget\chem\70msv9.i\091421.b\B10408.D  
 Report Date: 15-Sep-2021 14:03

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\091421.b\B10408.D  
 Lab Smp Id: ICV Client Smp ID: ICV  
 Inj Date : 14-SEP-2021 21:12 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : icv, 118792:1  
 Misc Info : 12496,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\091421.b\14D\_091421\_SIM.m  
 Meth Date : 15-Sep-2021 14:02 blagula Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 9 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A  
 Processing Host: 70MSV3WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

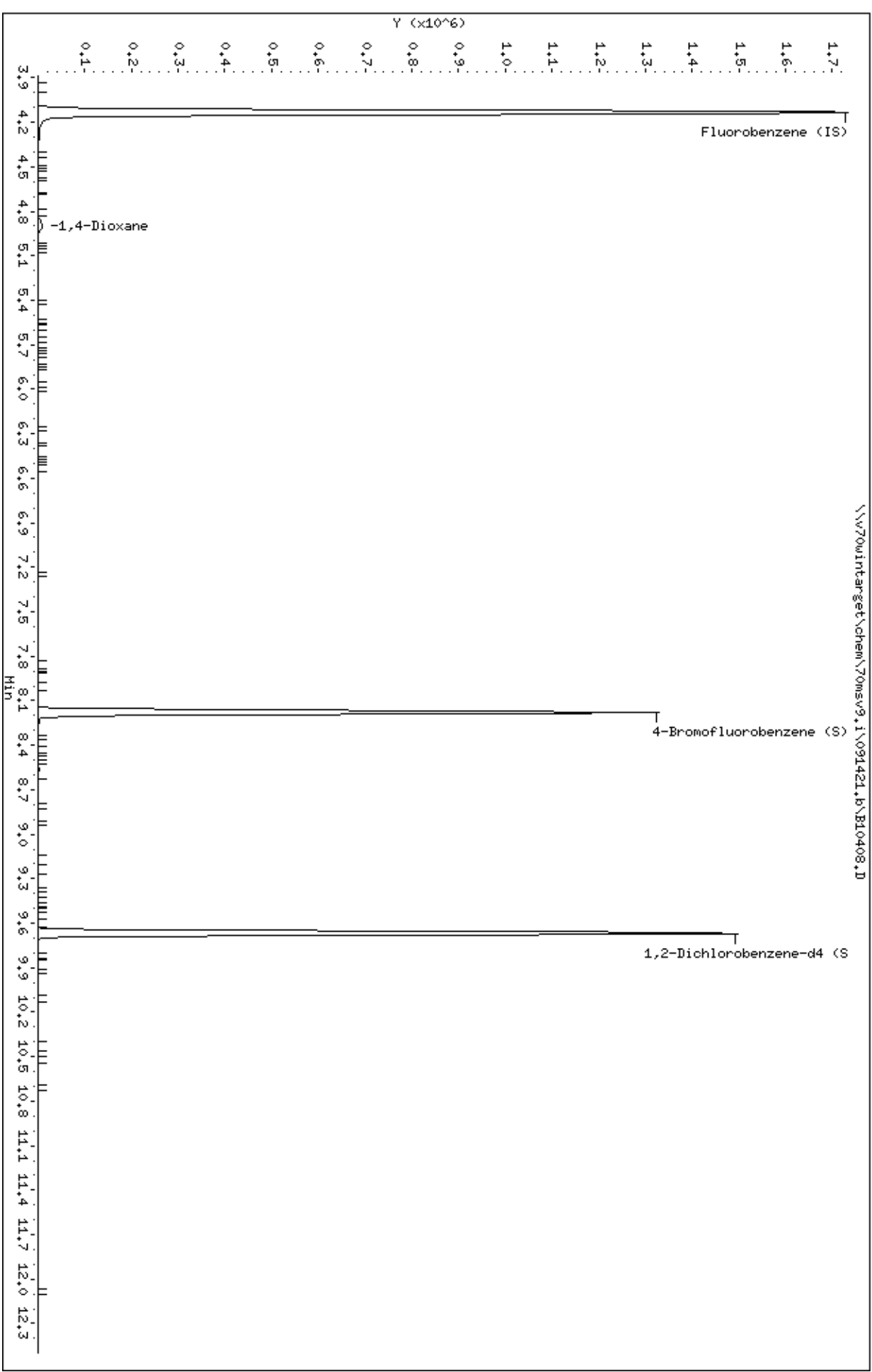
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		REVIEW C
							CAL-AMT ( ug/L)	ON-COL ( ug/L)	
* 45 Fluorobenzene (IS)	96		4.133	4.133	(1.000)	2429496	5.00000		
188 1,4-Dioxane	88		4.906	4.906	(1.187)	22154	2.50000	2.37	
\$ 90 4-Bromofluorobenzene (S)	95		8.174	8.174	(1.977)	781150	5.00000	5.34	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.339)	684365	5.00000	4.98	



Data File: \\w70wintarget\chem\70msv9.1\091421.b\B10408.D  
Date: 14-SEP-2021 21:12  
Client ID: ICW  
Sample Info: ICW, 118792:1  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\091421.b/B10408.D  
Injection Date: 14-SEP-2021 21:12  
Instrument: 70msv9.i  
Lab Sample ID: ICV  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

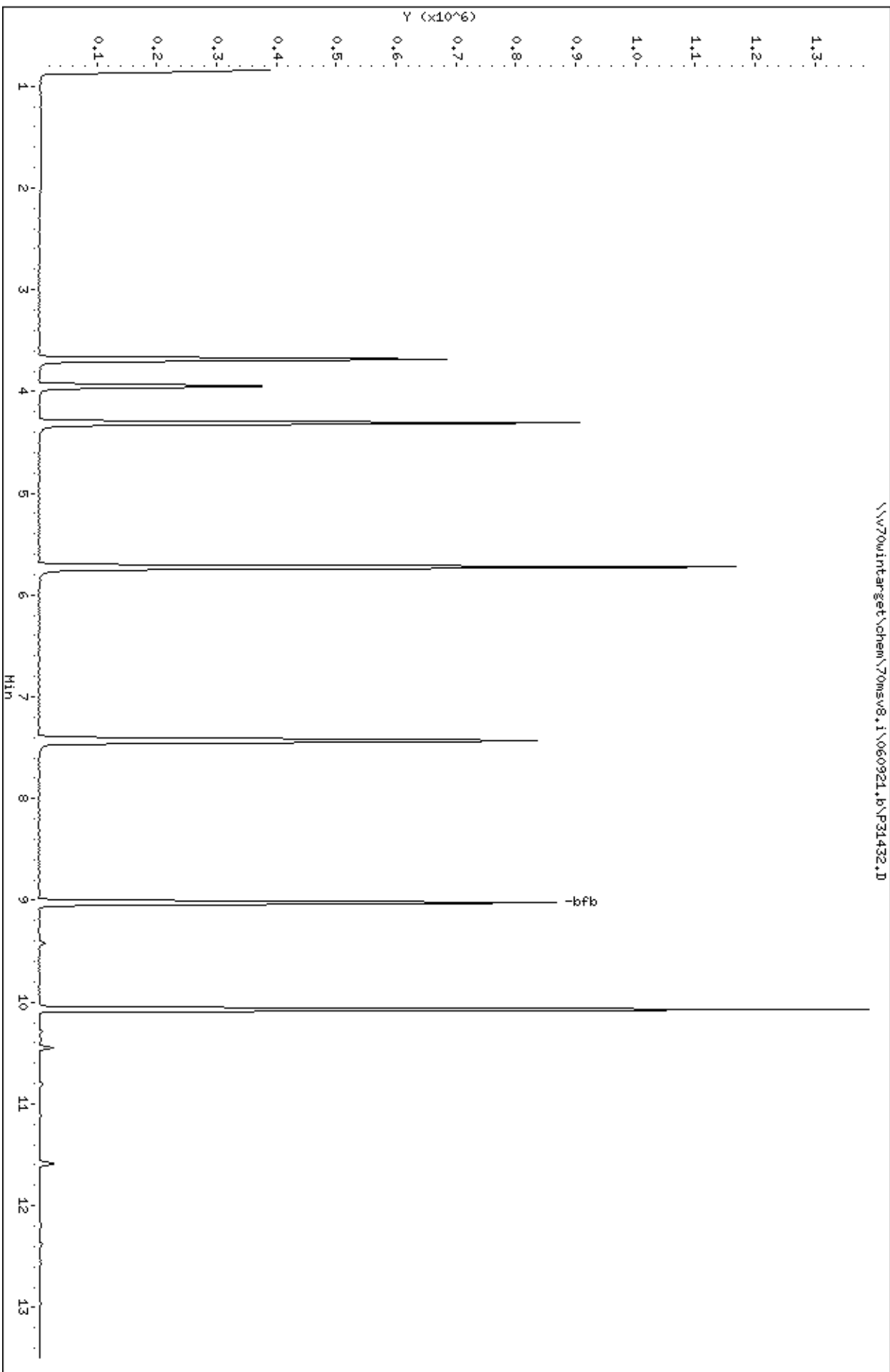
Instrument: 70msv8.1

Operator: BBL

Column diameter: 0.18

Column phase: DB-624

\\v70wintarget\chem\70msv8.1\060921.b\P31432.D



Date : 09-JUN-2021 15:37

Client ID: TUNE

Instrument: 70msv8.i

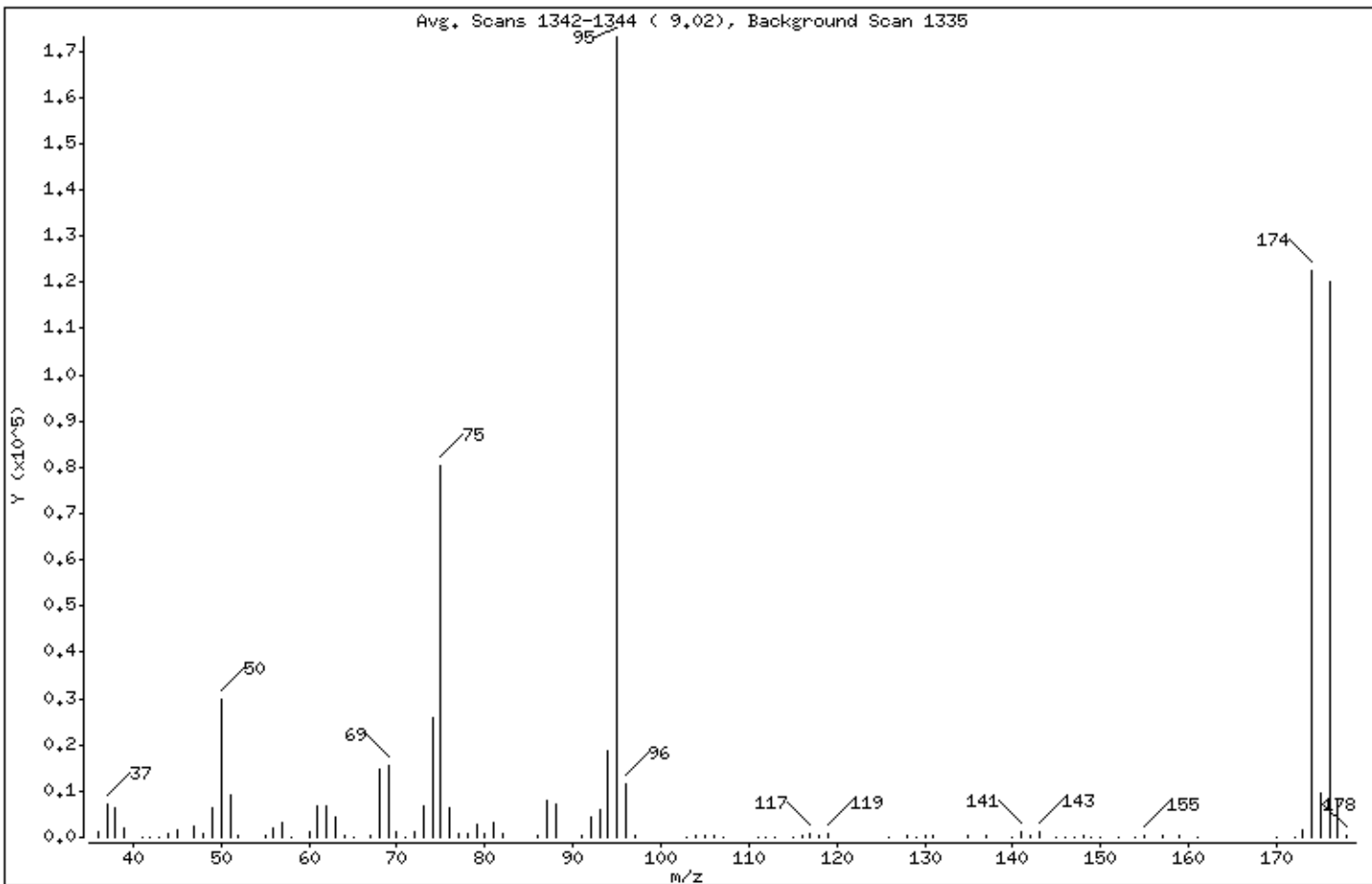
Sample Info: TUNE, 113080:1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100,00
50	15,00 - 40,00% of mass 95	17,26
75	30,00 - 60,00% of mass 95	46,45
96	5,00 - 9,00% of mass 95	6,58
173	Less than 2,00% of mass 174	0,85 ( 1,21)
174	50,00 - 100,00% of mass 95	70,74
175	5,00 - 9,00% of mass 174	5,49 ( 7,76)
176	95,00 - 101,00% of mass 174	69,35 ( 98,04)
177	5,00 - 9,00% of mass 176	4,66 ( 6,72)

Date : 09-JUN-2021 15:37

Client ID: TUNE

Instrument: 70msv8.i

Sample Info: TUNE, 113080:1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18

Data File: P31432.D

Spectrum: Avg. Scans 1342-1344 ( 9,02), Background Scan 1335

Location of Maximum: 95,00

Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	1301	65,00	54	95,00	172992	141,00	1193
37,00	7197	67,00	596	96,00	11379	142,00	274
38,00	6230	68,00	14856	97,00	245	143,00	1267
39,00	2136	69,00	15671	103,00	66	145,00	59
41,00	2	70,00	1061	104,00	595	146,00	170
42,00	40	71,00	36	105,00	258	147,00	131
43,00	40	72,00	1069	106,00	487	148,00	284
44,00	812	73,00	6736	107,00	57	149,00	91
45,00	1478	74,00	25728	111,00	79	150,00	187
47,00	2474	75,00	80352	112,00	52	152,00	38
48,00	813	76,00	6462	113,00	117	154,00	42
49,00	6247	77,00	901	115,00	141	155,00	461
50,00	29864	78,00	661	116,00	536	157,00	329
51,00	8992	79,00	2903	117,00	715	159,00	276
52,00	476	80,00	982	118,00	435	161,00	147
55,00	377	81,00	3376	119,00	628	170,00	101
56,00	2037	82,00	660	126,00	79	172,00	170
57,00	3376	86,00	262	128,00	539	173,00	1476
58,00	178	87,00	7840	129,00	195	174,00	122376
60,00	1377	88,00	7208	130,00	571	175,00	9491
61,00	6849	91,00	526	131,00	219	176,00	119976
62,00	6624	92,00	4333	135,00	225	177,00	8065
63,00	4451	93,00	5828	137,00	199	178,00	232
64,00	428	94,00	18656	140,00	80		

Data File: \\v70wintarget\chem\70msv8.i\102021.b\35488.D

Date : 20-OCT-2021 05:41

Client ID: TUNE

Sample Info: TUNE, 119751:1

Page 1

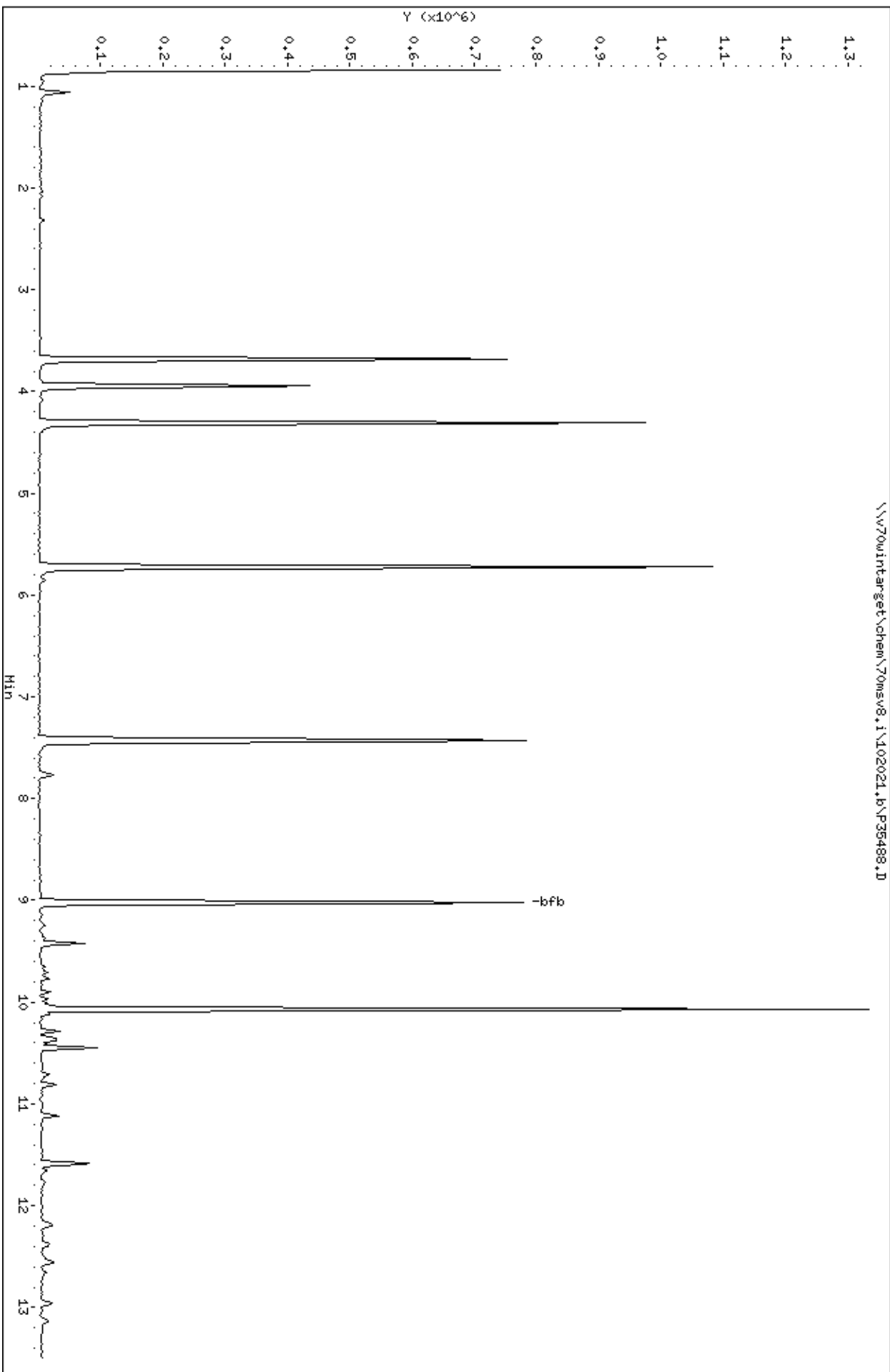
Instrument: 70msv8.i

Operator: KGS

Column diameter: 0.18

Column phase: DB-624

\\v70wintarget\chem\70msv8.i\102021.b\35488.D



Date : 20-OCT-2021 05:41

Client ID: TUNE

Instrument: 70msv8.i

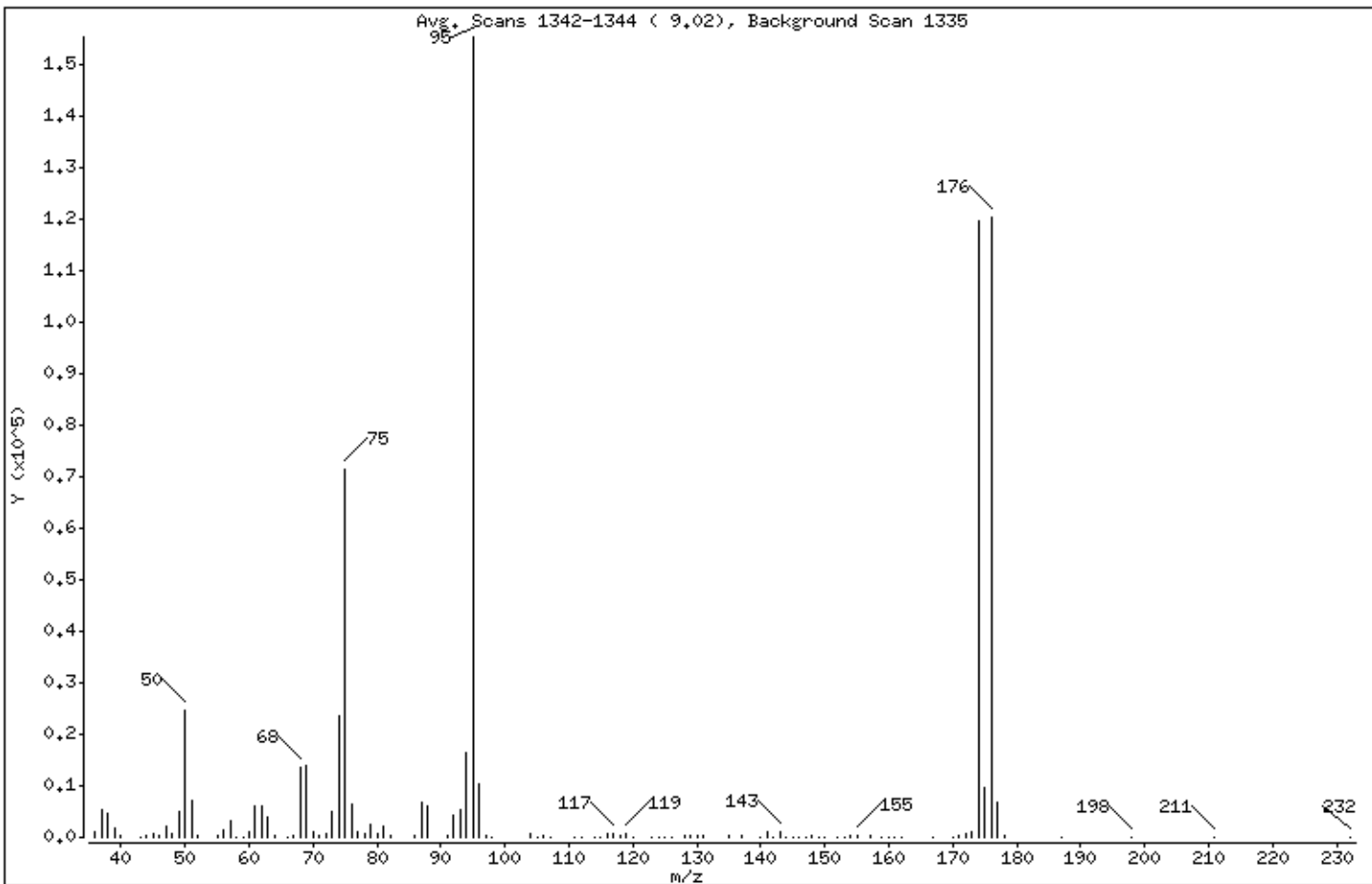
Sample Info: TUNE, 119751:1

Operator: KGG

Column phase: DB-624

Column diameter: 0,18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100,00
50	15,00 - 40,00% of mass 95	15,86
75	30,00 - 60,00% of mass 95	45,88
96	5,00 - 9,00% of mass 95	6,76
173	Less than 2,00% of mass 174	0,73 ( 0,94)
174	50,00 - 100,00% of mass 95	77,07
175	5,00 - 9,00% of mass 174	6,31 ( 8,19)
176	95,00 - 101,00% of mass 174	77,53 (100,59)
177	5,00 - 9,00% of mass 176	4,44 ( 5,73)

Date : 20-OCT-2021 05:41

Client ID: TUNE

Instrument: 70msv8.i

Sample Info: TUNE, 119751:1

Operator: KGG

Column phase: DB-624

Column diameter: 0,18

Data File: P35488.D

Spectrum: Avg. Scans 1342-1344 ( 9,02), Background Scan 1335

Location of Maximum: 95,00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	1152	69,00	13890	107,00	94	148,00	384
37,00	5293	70,00	904	111,00	86	149,00	129
38,00	4706	71,00	221	112,00	152	150,00	125
39,00	1904	72,00	851	114,00	72	152,00	93
40,00	201	73,00	5122	115,00	106	153,00	41
43,00	71	74,00	23616	116,00	541	154,00	231
44,00	257	75,00	71352	117,00	687	155,00	378
45,00	812	76,00	6346	118,00	292	157,00	230
46,00	194	77,00	1125	119,00	653	159,00	158
47,00	2075	78,00	851	120,00	81	160,00	55
48,00	677	79,00	2573	123,00	84	161,00	172
49,00	4930	80,00	865	124,00	97	162,00	56
50,00	24664	81,00	2086	125,00	36	167,00	71
51,00	7088	82,00	476	126,00	48	170,00	124
52,00	298	86,00	295	128,00	203	171,00	335
55,00	289	87,00	6839	129,00	185	172,00	603
56,00	1512	88,00	6020	130,00	337	173,00	1129
57,00	3093	91,00	366	131,00	277	174,00	119864
58,00	84	92,00	4187	135,00	253	175,00	9820
59,00	37	93,00	5304	137,00	211	176,00	120568
60,00	1202	94,00	16584	140,00	143	177,00	6911
61,00	5919	95,00	155520	141,00	979	178,00	249
62,00	6163	96,00	10518	142,00	128	187,00	35
63,00	3993	97,00	393	143,00	1170	198,00	38
64,00	528	98,00	35	144,00	81	211,00	37
66,00	35	104,00	563	145,00	119	232,00	42
67,00	427	105,00	69	146,00	94		
68,00	13685	106,00	495	147,00	68		



Date : 14-SEP-2021 17:39

Client ID: TUNE

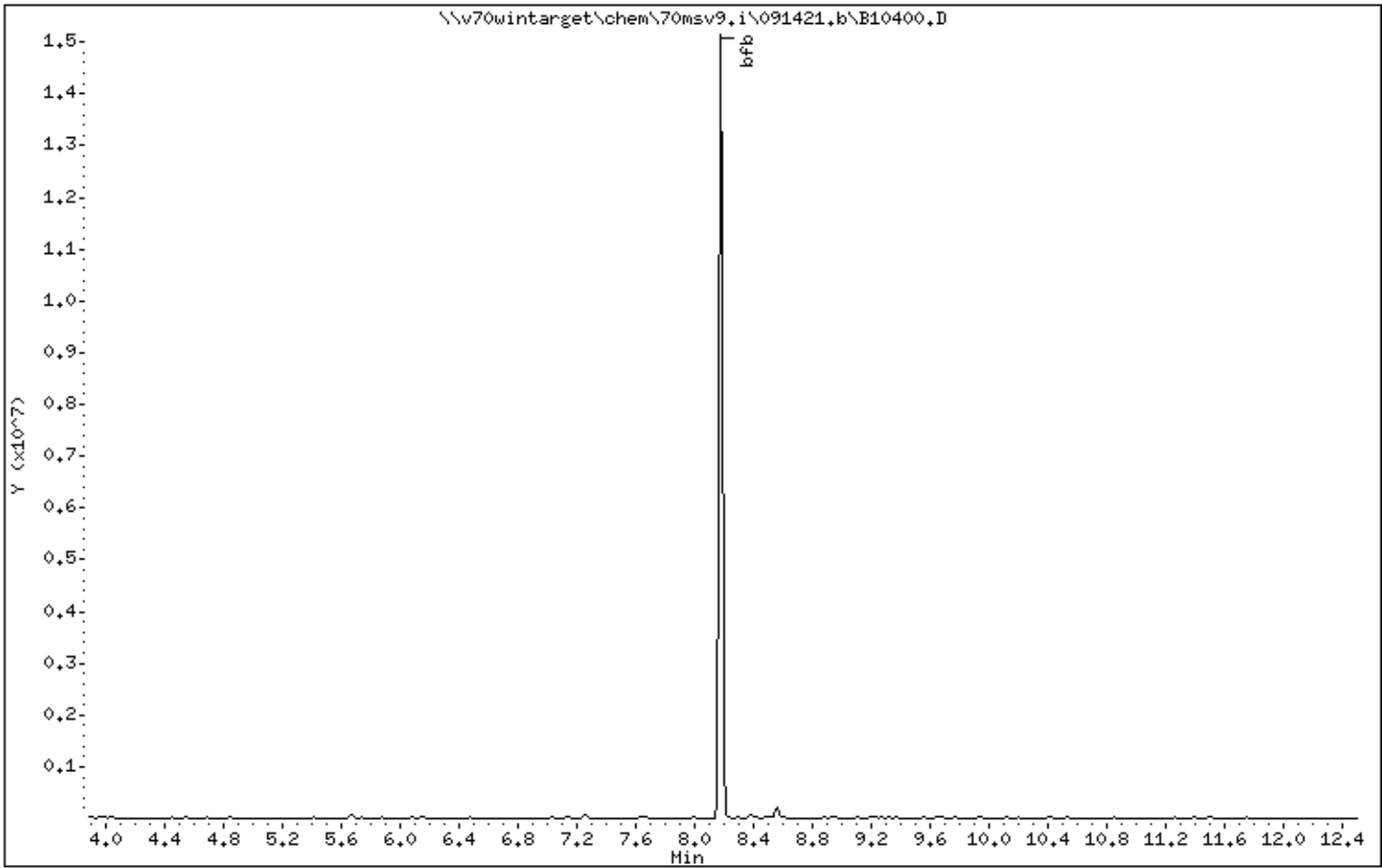
Instrument: 70msv9.i

Sample Info: TUNE, 92788;1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18



Date : 14-SEP-2021 17:39

Client ID: TUNE

Instrument: 70msv9.i

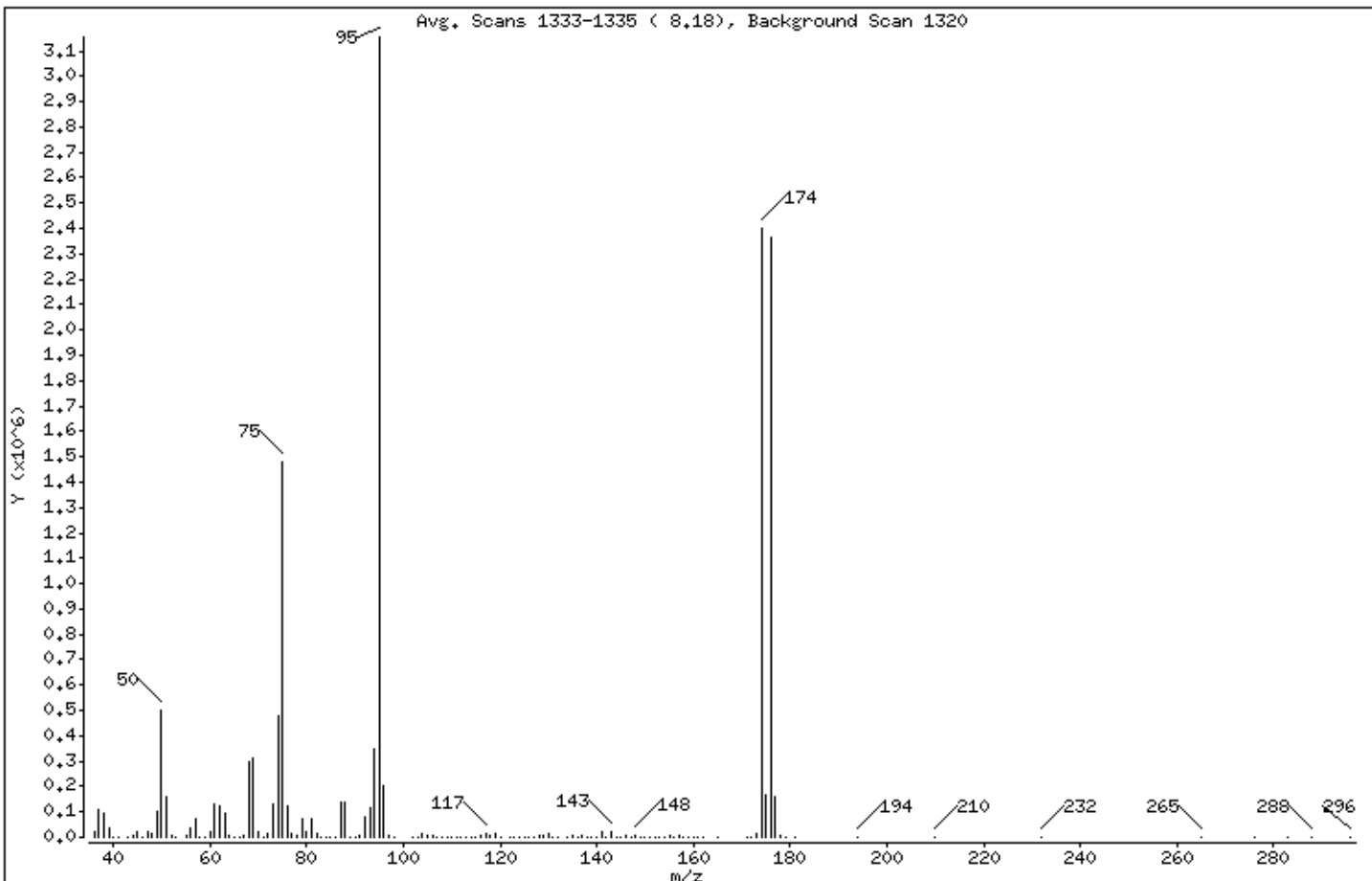
Sample Info: TUNE, 92788;1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100,00
50	15,00 - 40,00% of mass 95	15,78
75	30,00 - 60,00% of mass 95	46,97
96	5,00 - 9,00% of mass 95	6,49
173	Less than 2,00% of mass 174	0,39 ( 0,51)
174	50,00 - 100,00% of mass 95	76,16
175	5,00 - 9,00% of mass 174	5,40 ( 7,09)
176	95,00 - 101,00% of mass 174	74,86 ( 98,29)
177	5,00 - 9,00% of mass 176	5,00 ( 6,68)

Date : 14-SEP-2021 17:39

Client ID: TUNE

Instrument: 70msv9.i

Sample Info: TUNE, 92788:1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18

Data File: B10400.D

Spectrum: Avg. Scans 1333-1335 ( 8,18), Background Scan 1320

Location of Maximum: 95,00

Number of points: 139

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	20456	73,00	129808	111,00	1932	148,00	6831
37,00	110616	74,00	481472	112,00	1438	149,00	1826
38,00	96176	75,00	1481728	113,00	1901	150,00	3383
39,00	37624	76,00	125056	114,00	248	151,00	242
40,00	746	77,00	17336	115,00	2427	152,00	1071
41,00	53	78,00	10196	116,00	8717	153,00	2000
43,00	494	79,00	72192	117,00	15418	154,00	1356
44,00	10521	80,00	18352	118,00	9345	155,00	6760
45,00	20744	81,00	73664	119,00	14201	156,00	896
46,00	1220	82,00	14565	120,00	557	157,00	4056
47,00	24504	83,00	1364	122,00	828	158,00	491
48,00	13563	84,00	130	123,00	778	159,00	3432
49,00	102992	85,00	194	124,00	1904	160,00	182
50,00	497792	86,00	3160	125,00	1066	161,00	2755
51,00	159168	87,00	139136	126,00	890	162,00	76
52,00	6316	88,00	134272	127,00	881	165,00	26
53,00	582	89,00	16	128,00	8993	171,00	343
55,00	6386	90,00	23	129,00	4911	172,00	1871
56,00	36600	91,00	9606	130,00	10996	173,00	12293
57,00	69008	92,00	82088	131,00	3209	174,00	2402304
58,00	2339	93,00	118704	132,00	473	175,00	170368
59,00	265	94,00	344640	134,00	664	176,00	2361344
60,00	23624	95,00	3154432	135,00	3748	177,00	157696
61,00	127376	96,00	204736	136,00	694	178,00	4239
62,00	126160	97,00	6496	137,00	4140	179,00	49
63,00	92488	98,00	489	138,00	470	181,00	71
64,00	8943	102,00	262	139,00	428	194,00	24
65,00	1613	103,00	1016	140,00	1853	210,00	123
66,00	372	104,00	11475	141,00	20336	232,00	23
67,00	7096	105,00	4664	142,00	2943	265,00	21
68,00	299328	106,00	10572	143,00	22592	276,00	68
69,00	309952	107,00	2944	144,00	1463	283,00	21
70,00	22680	108,00	294	145,00	2279	288,00	74
71,00	778	109,00	37	146,00	3908	296,00	47
72,00	14268	110,00	1531	147,00	2618		

Date : 14-SEP-2021 17:39

Client ID: TUNE

Instrument: 70msv9.i

Sample Info: TUNE, 92788;1

Operator: BBL

Column phase: DB-624

Column diameter: 0.18

Data File: B10400.D

Spectrum: Avg. Scans 1333-1335 ( 8,18), Background Scan 1320

Location of Maximum: 95.00

Number of points: 139

m/z	Y	m/z	Y	m/z	Y	m/z	Y
+-----+-----+-----+-----+							

Date : 20-OCT-2021 14:26

Client ID: TUNE

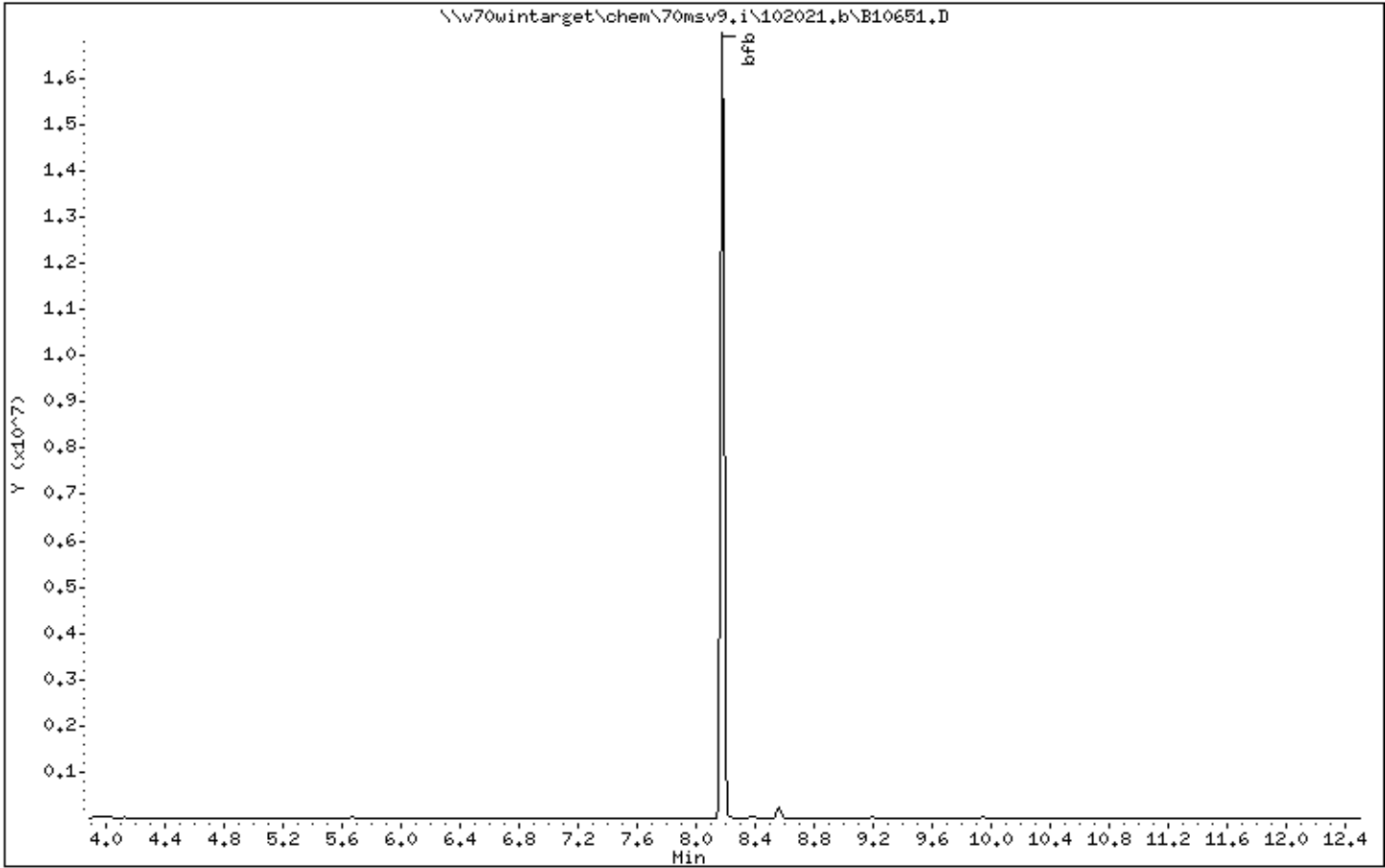
Instrument: 70msv9.i

Sample Info: TUNE, 92788;1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18



Date : 20-OCT-2021 14:26

Client ID: TUNE

Instrument: 70msv9.i

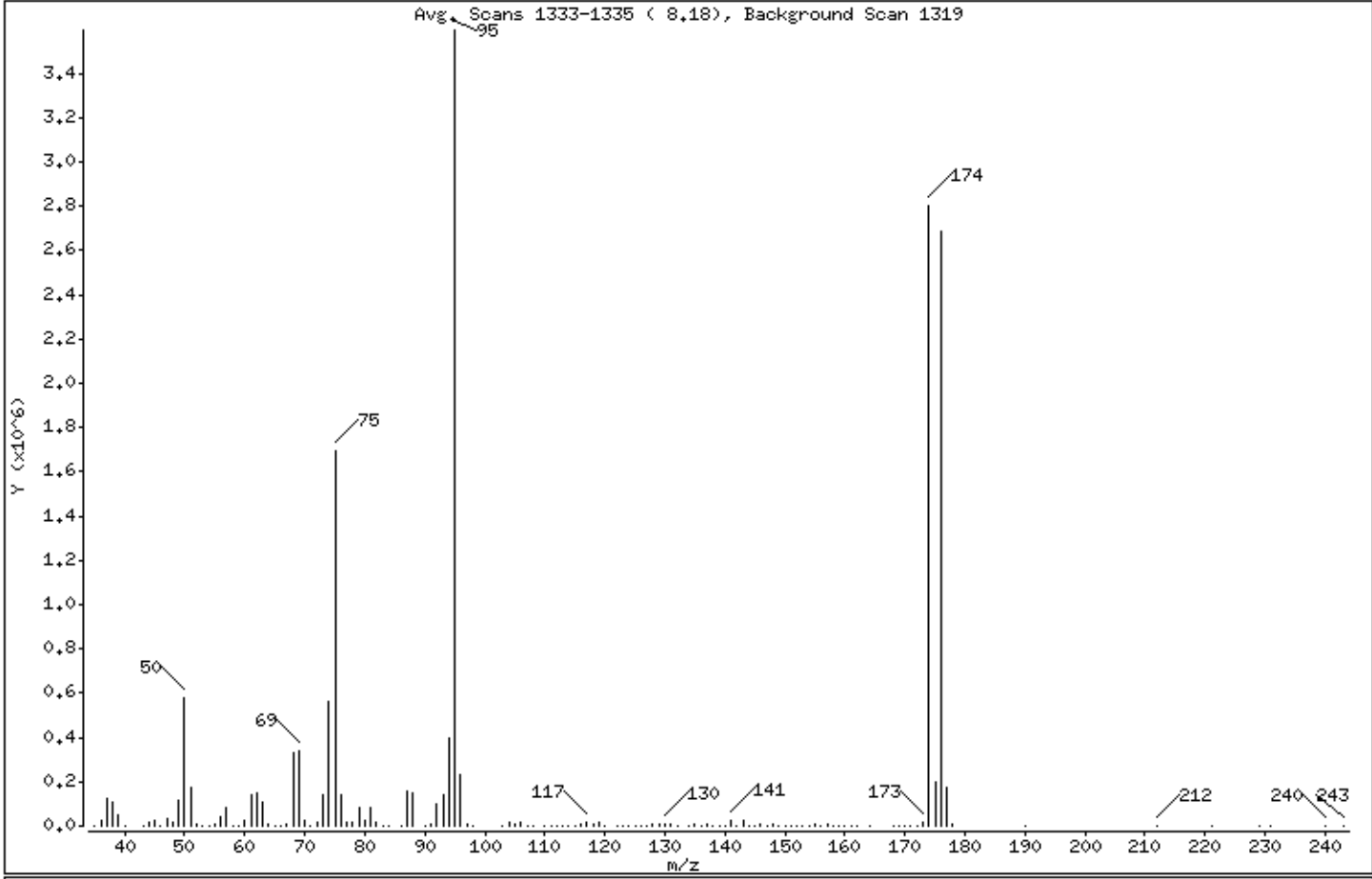
Sample Info: TUNE, 92788;1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100,00
50	15,00 - 40,00% of mass 95	16,10
75	30,00 - 60,00% of mass 95	47,18
96	5,00 - 9,00% of mass 95	6,49
173	Less than 2,00% of mass 174	0,42 ( 0,54)
174	50,00 - 100,00% of mass 95	77,86
175	5,00 - 9,00% of mass 174	5,48 ( 7,04)
176	95,00 - 101,00% of mass 174	74,73 ( 95,98)
177	5,00 - 9,00% of mass 176	4,87 ( 6,52)

Date : 20-OCT-2021 14:26

Client ID: TUNE

Instrument: 70msv9.i

Sample Info: TUNE, 92788:1

Operator: BBL

Column phase: DB-624

Column diameter: 0,18

Data File: B10651.D

Spectrum: Avg. Scans 1333-1335 ( 8,18), Background Scan 1319

Location of Maximum: 95,00

Number of points: 136

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35,00	268	72,00	17352	114,00	76	151,00	209
36,00	20664	73,00	142080	115,00	2691	152,00	1360
37,00	123064	74,00	565056	116,00	11012	153,00	2490
38,00	109024	75,00	1695744	117,00	18592	154,00	1808
39,00	45920	76,00	140160	118,00	12377	155,00	7877
40,00	1658	77,00	16364	119,00	14905	156,00	548
43,00	958	78,00	12545	120,00	580	157,00	5188
44,00	14035	79,00	79280	122,00	1000	158,00	442
45,00	23880	80,00	23656	123,00	796	159,00	3500
46,00	1881	81,00	83016	124,00	1918	160,00	321
47,00	30648	82,00	15703	125,00	765	161,00	3489
48,00	15969	83,00	1809	126,00	1347	162,00	221
49,00	115048	84,00	21	127,00	1274	164,00	46
50,00	578752	86,00	3889	128,00	11311	168,00	28
51,00	177152	87,00	155712	129,00	5441	169,00	174
52,00	8357	88,00	147520	130,00	12091	170,00	65
53,00	337	90,00	25	131,00	4617	171,00	193
54,00	56	91,00	10141	132,00	367	172,00	1729
55,00	6680	92,00	99432	134,00	802	173,00	15005
56,00	43688	93,00	141440	135,00	4527	174,00	2798592
57,00	79000	94,00	393408	136,00	731	175,00	196992
58,00	2927	95,00	3594240	137,00	5585	176,00	2685952
59,00	308	96,00	233408	138,00	262	177,00	175104
60,00	27128	97,00	6896	139,00	876	178,00	5515
61,00	142976	98,00	257	140,00	1660	190,00	159
62,00	145728	103,00	1225	141,00	26968	212,00	62
63,00	107360	104,00	13178	142,00	3306	221,00	17
64,00	9403	105,00	4706	143,00	26192	229,00	27
65,00	1328	106,00	13294	144,00	1456	231,00	65
66,00	114	107,00	2603	145,00	2501	240,00	70
67,00	7304	108,00	479	146,00	4717	243,00	89
68,00	333632	110,00	1896	147,00	2597		
69,00	342208	111,00	2066	148,00	7787		
70,00	25496	112,00	1615	149,00	2170		
71,00	803	113,00	1990	150,00	3453		

Date : 20-OCT-2021 14:26

Client ID: TUNE

Instrument: 70msv9.i

Sample Info: TUNE, 92788;1

Operator: BBL

Column phase: DB-624

Column diameter: 0.18

Data File: B10651.D

Spectrum: Avg. Scans 1333-1335 ( 8,18), Background Scan 1319

Location of Maximum: 95.00

Number of points: 136

m/z	Y	m/z	Y	m/z	Y	m/z	Y
+-----+-----+-----+-----+							



MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLANK

Lab Name: Pace Analytical - New York  
Date Received: \_\_\_\_\_  
Date Extracted: 10/20/2021 08:12  
Date Analyzed: 10/20/2021 08:12  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160401  
Lab File ID: 102021.B\BP35490A.D  
Instrument: 70MSV8 Percent Moisture: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<5.0	U
71-43-2	Benzene	<1.0	U
108-86-1	Bromobenzene	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<1.0	U
74-83-9	Bromomethane	<1.0	U
78-93-3	2-Butanone (MEK)	<5.0	U
104-51-8	n-Butylbenzene	<1.0	U
135-98-8	sec-Butylbenzene	<1.0	U
98-06-6	tert-Butylbenzene	<1.0	U
75-15-0	Carbon disulfide	<1.0	U
56-23-5	Carbon tetrachloride	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
75-00-3	Chloroethane	<1.0	U
67-66-3	Chloroform	<1.0	U
74-87-3	Chloromethane	<1.0	U
95-49-8	2-Chlorotoluene	<1.0	U
106-43-4	4-Chlorotoluene	<1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane (EDB)	<1.0	U
74-95-3	Dibromomethane	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
75-71-8	Dichlorodifluoromethane	<1.0	U
75-34-3	1,1-Dichloroethane	<1.0	U
107-06-2	1,2-Dichloroethane	<1.0	U
75-35-4	1,1-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
142-28-9	1,3-Dichloropropane	<1.0	U
594-20-7	2,2-Dichloropropane	<1.0	U
563-58-6	1,1-Dichloropropene	<1.0	U
10061-01-5	cis-1,3-Dichloropropene	<1.0	U

11/11/2021 2:03

MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLANK

Lab Name: Pace Analytical - New York  
Date Received: \_\_\_\_\_  
Date Extracted: 10/20/2021 08:12  
Date Analyzed: 10/20/2021 08:12  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160401  
Lab File ID: 102021.B\P35490A.D  
Instrument: 70MSV8 Percent Moisture: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
123-91-1	1,4-Dioxane (p-Dioxane)	<100	U
100-41-4	Ethylbenzene	<1.0	U
87-68-3	Hexachloro-1,3-butadiene	<1.0	U
591-78-6	2-Hexanone	<5.0	U
98-82-8	Isopropylbenzene (Cumene)	<1.0	U
99-87-6	p-Isopropyltoluene	<1.0	U
75-09-2	Methylene Chloride	<1.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	U
1634-04-4	Methyl-tert-butyl ether	<1.0	U
91-20-3	Naphthalene	<1.0	U
103-65-1	n-Propylbenzene	<1.0	U
100-42-5	Styrene	<1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
108-88-3	Toluene	<1.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
79-01-6	Trichloroethene	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
96-18-4	1,2,3-Trichloropropane	<1.0	U
95-63-6	1,2,4-Trimethylbenzene	<1.0	U
108-67-8	1,3,5-Trimethylbenzene	<1.0	U
108-05-4	Vinyl acetate	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
1330-20-7	Xylene (Total)	<3.0	U
179601-23-1	m&p-Xylene	<2.0	U
95-47-6	o-Xylene	<1.0	U

11/11/2021 2:03

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35490A.D  
 Report Date: 21-Oct-2021 11:12

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35490A.D  
 Lab Smp Id: 1160401 Client Smp ID: MB  
 Inj Date : 20-OCT-2021 08:12 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 1160401  
 Misc Info : 12755  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 3 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				REVIEW C		
			ON-COLUMN	FINAL					
	MASS		RT	EXP RT	REL RT	RESPONSE	( ug/L)	( ug/L)	
1 Chlorodifluoromethane	51					Compound Not Detected.			
2 Dichlorotetrafluoroethane	135					Compound Not Detected.			
3 Dichlorodifluoromethane	85					Compound Not Detected.			
4 Chloromethane	50					Compound Not Detected.			
5 Vinyl chloride	62					Compound Not Detected.			
6 1,3-Butadiene	54					Compound Not Detected.			
7 Acetaldehyde	44					Compound Not Detected.			
8 Bromomethane	94					Compound Not Detected.			
9 Chloroethane	64					Compound Not Detected.			
10 Dichlorofluoromethane	67					Compound Not Detected.			
11 Trichlorofluoromethane	101					Compound Not Detected.			
12 Ethanol	45					Compound Not Detected.			(D)
13 Diethyl ether (Ethyl ether)	59					Compound Not Detected.			
16 1,1,2-Trichlorotrifluoroethane	101					Compound Not Detected.			
14 Acrolein	56					Compound Not Detected.			
15 1,1-Dichloroethene	96					Compound Not Detected.			
17 Acetone	43					Compound Not Detected.			
18 Iodomethane	142					Compound Not Detected.			
19 2-Propanol	45					Compound Not Detected.			
20 Carbon disulfide	76					Compound Not Detected.			
21 Allyl chloride	76					Compound Not Detected.			
22 Acetonitrile	41					Compound Not Detected.			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
23 Methyl acetate	43							
24 Methylene Chloride	84							
25 tert-Butyl Alcohol	59							
28 Methyl-tert-butyl ether	73							
27 trans-1,2-Dichloroethene	96							
26 Acrylonitrile	53							
30 n-Hexane	57							
29 Diisopropyl ether	45							
32 Vinyl acetate	43							
31 1,1-Dichloroethane	63							
33 Chloroprene	53							
34 Ethyl-tert-butyl ether	59							
36 2,2-Dichloropropane	77							
35 cis-1,2-Dichloroethene	96							
39 Ethyl acetate	61							
37 2-Butanone (MEK)	43							
41 Bromochloromethane	128							
42 Tetrahydrofuran	42							
43 Chloroform	83							
38 Propionitrile	54							
46 Cyclohexane	56							
45 1,1,1-Trichloroethane	97							
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	339470	50.0000		
48 Carbon tetrachloride	117							(D)
47 1,1-Dichloropropene	75							(D)
55 2,2,4-Trimethylpentane	57							
51 Benzene	78							
40 Methacrylonitrile	67							
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.946	3.945	(0.915)	184513	47.1089	47.1	
56 tert-Amylmethyl ether	73							
52 1,2-Dichloroethane	62							
57 n-Heptane	43							
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	589464	50.0000		
59 Trichloroethene	95							
60 Methylcyclohexane	83							
49 Isobutanol	43							
53 tert-Amyl Alcohol	59							
54 tert-Amyl ethyl ether	59							
61 1,2-Dichloropropane	63							
63 Methyl methacrylate	69							
64 1,4-Dioxane (p-Dioxane)	88							
62 Dibromomethane	93							
65 Bromodichloromethane	83							
66 2-Nitropropane	43							
67 2-Chloroethylvinyl ether	63							
68 cis-1,3-Dichloropropene	75							
69 4-Methyl-2-pentanone (MIBK)	43							
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	723347	51.4759	51.5	
71 Toluene	91							
72 Methyl isothiocyanate	73							
74 trans-1,3-Dichloropropene	75							
75 Ethyl methacrylate	69							
76 1,1,2-Trichloroethane	83							
77 Tetrachloroethene	166							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76							
79 2-Hexanone	43							
73 n-Octane	43							
81 n-Butyl acetate	43							
80 Dibromochloromethane	129							
82 1,2-Dibromoethane (EDB)	107							
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.426	(1.000)	290044	50.0000		
84 Chlorobenzene	112							
86 Ethylbenzene	106							
85 1,1,1,2-Tetrachloroethane	131							
88 n-Nonane	43							
87 m&p-Xylene	106							
89 o-Xylene	106							
90 Styrene	104							
91 Bromoform	173							
92 Isopropylbenzene (Cumene)	105							
\$ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	261414	50.6832	50.7	
94 Bromobenzene	156							
95 1,1,2,2-Tetrachloroethane	83							
98 n-Propylbenzene	91							
96 1,2,3-Trichloropropane	110							
97 trans-1,4-Dichloro-2-butene	53							
103 n-Decane	43							
99 2-Chlorotoluene	91							
100 4-Ethyltoluene	105							
101 1,3,5-Trimethylbenzene	105							
102 4-Chlorotoluene	91							
104 tert-Butylbenzene	119							
105 Pentachloroethane	167							
106 1,2,4-Trimethylbenzene	105							
107 sec-Butylbenzene	105							
109 d-Limonene	136							
110 p-Isopropyltoluene	119							
108 1,3-Dichlorobenzene	146							
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	256631	50.0000		
112 1,4-Dichlorobenzene	146							
113 1,2,3-Trimethylbenzene	105							
114 Benzyl chloride	91							
115 trans-Decalin	138							
116 1,4-Diethylbenzene	119							
117 n-Butylbenzene	91							
119 n-Undecane	43							
118 1,2-Dichlorobenzene	146							
120 cis-Decalin	138							
121 1,2,4,5-tetramethylbenzene	119							
122 1,2-Dibromo-3-chloropropane	75							
123 n-Dodecane	43							
124 1,2,4-Trichlorobenzene	180							
125 Hexachloro-1,3-butadiene	225							
126 Naphthalene	128							
127 1,2,3-Trichlorobenzene	180							

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35490A.D  
Report Date: 21-Oct-2021 11:12

QC Flag Legend

D - User disabled compound identification.

Review Codes Legend

:

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35490A.D  
Report Date: 21-Oct-2021 11:12

Pace Analytical Services, Inc.

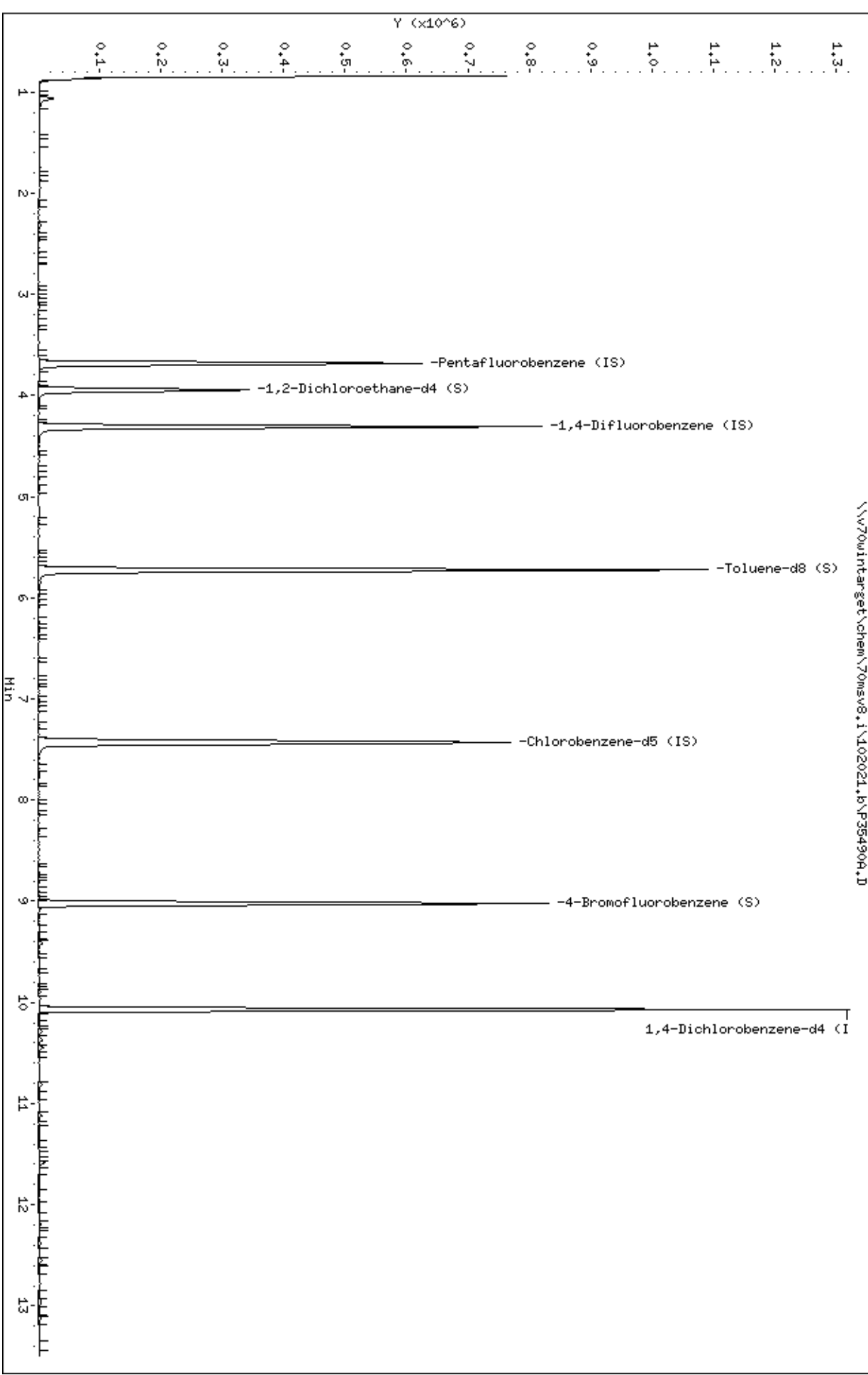
SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35490A.D  
Lab Smp Id: 1160401 Client Smp ID: MB  
Inj Date : 20-OCT-2021 08:12 MS Autotune Date: 14-MAY-2021 14:0  
Operator : KGG Inst ID: 70msv8.i  
Smp Info : 1160401  
Misc Info : 12755  
Comment :  
Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
Als bottle: 3 QC Sample: BLANK  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 8260.sub  
Target Version: RC10A  
Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\v70win\target\chem\70msv8.1\102021.08\12  
Date : 20-OCT-2021 08:12  
Client ID: HB  
Sample Info: 1160401  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv8.1  
Operator: KGS  
Column diameter: 0.18





Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35490A.D  
Injection Date: 20-OCT-2021 08:12  
Instrument: 70msv8.i  
Lab Sample ID: 1160401  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS

Lab Name: Pace Analytical - New York  
Date Received: \_\_\_\_\_  
Date Extracted: 10/20/2021 08:37  
Date Analyzed: 10/20/2021 08:37  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160402  
Lab File ID: 102021.B\BP35491A.D  
Instrument: 70MSV8 Percent Moisture: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	30.1	
71-43-2	Benzene	49.9	
108-86-1	Bromobenzene	49.0	
74-97-5	Bromochloromethane	50.2	
75-27-4	Bromodichloromethane	47.5	
75-25-2	Bromoform	47.7	
74-83-9	Bromomethane	26.8	
78-93-3	2-Butanone (MEK)	34.7	
104-51-8	n-Butylbenzene	46.3	
135-98-8	sec-Butylbenzene	45.2	
98-06-6	tert-Butylbenzene	47.3	
75-15-0	Carbon disulfide	46.7	
56-23-5	Carbon tetrachloride	44.7	
108-90-7	Chlorobenzene	48.8	
75-00-3	Chloroethane	38.3	
67-66-3	Chloroform	46.7	
74-87-3	Chloromethane	33.0	
95-49-8	2-Chlorotoluene	45.5	
106-43-4	4-Chlorotoluene	47.1	
96-12-8	1,2-Dibromo-3-chloropropane	41.8	
124-48-1	Dibromochloromethane	46.2	
106-93-4	1,2-Dibromoethane (EDB)	46.6	
74-95-3	Dibromomethane	48.6	
95-50-1	1,2-Dichlorobenzene	49.7	
541-73-1	1,3-Dichlorobenzene	49.2	
106-46-7	1,4-Dichlorobenzene	48.8	
75-71-8	Dichlorodifluoromethane	39.4	
75-34-3	1,1-Dichloroethane	44.8	
107-06-2	1,2-Dichloroethane	44.3	
75-35-4	1,1-Dichloroethene	54.9	
156-59-2	cis-1,2-Dichloroethene	48.3	
156-60-5	trans-1,2-Dichloroethene	46.8	
78-87-5	1,2-Dichloropropane	47.3	
142-28-9	1,3-Dichloropropane	48.8	
594-20-7	2,2-Dichloropropane	45.9	
563-58-6	1,1-Dichloropropene	42.7	
10061-01-5	cis-1,3-Dichloropropene	49.6	

11/11/2021 2:03

MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS
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Lab Name: Pace Analytical - New York  
 Date Received: \_\_\_\_\_  
 Date Extracted: 10/20/2021 08:37  
 Date Analyzed: 10/20/2021 08:37  
 Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
 Matrix: Water SDG No.: 70191351  
 Lab Sample ID: 1160402  
 Lab File ID: 102021.B\P35491A.D  
 Instrument: 70MSV8 Percent Moisture: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	48.0	
123-91-1	1,4-Dioxane (p-Dioxane)	1380	
100-41-4	Ethylbenzene	47.1	
87-68-3	Hexachloro-1,3-butadiene	39.5	
591-78-6	2-Hexanone	35.2	
98-82-8	Isopropylbenzene (Cumene)	46.2	
99-87-6	p-Isopropyltoluene	48.2	
75-09-2	Methylene Chloride	45.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	40.2	
1634-04-4	Methyl-tert-butyl ether	42.4	
91-20-3	Naphthalene	48.2	
103-65-1	n-Propylbenzene	45.9	
100-42-5	Styrene	51.5	
630-20-6	1,1,1,2-Tetrachloroethane	48.4	
79-34-5	1,1,2,2-Tetrachloroethane	46.7	
127-18-4	Tetrachloroethene	47.0	
108-88-3	Toluene	47.0	
87-61-6	1,2,3-Trichlorobenzene	47.3	
120-82-1	1,2,4-Trichlorobenzene	50.4	
71-55-6	1,1,1-Trichloroethane	45.7	
79-00-5	1,1,2-Trichloroethane	46.2	
79-01-6	Trichloroethene	46.2	
75-69-4	Trichlorofluoromethane	52.0	
96-18-4	1,2,3-Trichloropropane	46.0	
95-63-6	1,2,4-Trimethylbenzene	48.3	
108-67-8	1,3,5-Trimethylbenzene	49.4	
108-05-4	Vinyl acetate	38.3	
75-01-4	Vinyl chloride	37.3	
1330-20-7	Xylene (Total)	149	
179601-23-1	m&p-Xylene	97.3	
95-47-6	o-Xylene	51.4	

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D  
 Lab Smp Id: 1160402 Client Smp ID: MBLCS  
 Inj Date : 20-OCT-2021 08:37 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 1160402 120466:1.25  
 Misc Info : 12755  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 4 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
							ON-COLUMN ( ug/L)	FINAL ( ug/L)	
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	140797	37.5346	37.5	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	77439	40.3212	40.3	
3 Dichlorodifluoromethane	85		0.971	0.970	(0.264)	155873	39.3846	39.4 (Q)	
4 Chloromethane	50		1.105	1.104	(0.300)	137674	32.9720	33.0 (R)	
5 Vinyl chloride	62		1.172	1.172	(0.318)	166943	37.2989	37.3	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	135719	39.4535	39.4	
7 Acetaldehyde	44		1.263	1.263	(0.343)	19739	62.0429	62.0 (Q)	
8 Bromomethane	94		1.391	1.391	(0.378)	35363	26.8072	26.8 (R)	
9 Chloroethane	64		1.464	1.458	(0.398)	93117	38.3067	38.3	
10 Dichlorofluoromethane	67		1.605	1.598	(0.436)	285694	53.4693	53.5	
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	229690	51.9564	52.0	
12 Ethanol	45		1.800	1.799	(0.489)	137879	10130.0	10100 (AR)	
13 Diethyl ether (Ethyl ether)	59		1.800	1.799	(0.489)	138608	53.9518	54.0	
16 1,1,2-Trichlorotrifluoroethane	101		1.928	1.921	(0.523)	145219	49.4978	49.5	
14 Acrolein	56		1.934	1.934	(0.525)	18313	55.3422	55.3 (Q)	
15 1,1-Dichloroethene	96		1.946	1.946	(0.528)	139286	54.9071	54.9	
17 Acetone	43		2.037	2.037	(0.553)	28022	30.1161	30.1 (R)	
18 Iodomethane	142		2.068	2.062	(0.561)	48027	33.8623	33.9 (R)	
19 2-Propanol	45		2.123	2.123	(0.576)	107735	1164.25	1160 (Q)	
20 Carbon disulfide	76		2.086	2.086	(0.566)	406915	46.7332	46.7	
21 Allyl chloride	76		2.214	2.214	(0.601)	80884	45.6756	45.7	
22 Acetonitrile	41		2.281	2.275	(0.619)	73780	220.191	220	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
23 Methyl acetate	43	2.233	2.232	(0.606)	148760	35.9949	36.0	
24 Methylene Chloride	84	2.318	2.318	(0.629)	136427	45.1379	45.1	
25 tert-Butyl Alcohol	59	2.397	2.397	(0.651)	36336	241.013	241	
28 Methyl-tert-butyl ether	73	2.458	2.458	(0.667)	344792	42.3683	42.4	
27 trans-1,2-Dichloroethene	96	2.470	2.470	(0.671)	135506	46.7862	46.8	
26 Acrylonitrile	53	2.543	2.543	(0.691)	41209	44.6049	44.6	
30 n-Hexane	57	2.604	2.604	(0.707)	227057	44.5804	44.6	
29 Diisopropyl ether	45	2.793	2.793	(0.758)	461765	44.2444	44.2	
32 Vinyl acetate	43	2.836	2.836	(0.770)	237631	38.2536	38.2	
31 1,1-Dichloroethane	63	2.806	2.805	(0.762)	249469	44.8379	44.8	
33 Chloroprene	53	2.842	2.842	(0.772)	206576	49.9440	49.9	
34 Ethyl-tert-butyl ether	59	3.068	3.068	(0.833)	365261	39.5412	39.5	
36 2,2-Dichloropropane	77	3.226	3.226	(0.876)	164388	45.8838	45.9	
35 cis-1,2-Dichloroethene	96	3.257	3.250	(0.884)	156233	48.2840	48.3	
39 Ethyl acetate	61	3.251	3.250	(0.882)	221589	44.3426	44.3	
37 2-Butanone (MEK)	43	3.293	3.293	(0.894)	70881	34.6841	34.7 (R)	
41 Bromochloromethane	128	3.452	3.446	(0.937)	70369	50.2049	50.2	
42 Tetrahydrofuran	42	3.458	3.458	(0.939)	34279	38.1717	38.2	
43 Chloroform	83	3.507	3.500	(0.952)	234761	46.6534	46.6	
38 Propionitrile	54	3.397	3.397	(0.922)	15703	44.0911	44.1	
46 Cyclohexane	56	3.592	3.592	(0.975)	266184	39.6832	39.7	
45 1,1,1-Trichloroethane	97	3.616	3.616	(0.839)	185136	45.6923	45.7	
* 44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	346686	50.0000		
48 Carbon tetrachloride	117	3.714	3.714	(0.861)	159291	44.7358	44.7	
47 1,1-Dichloropropene	75	3.751	3.750	(0.870)	189814	42.6698	42.7	
55 2,2,4-Trimethylpentane	57	3.903	3.903	(1.060)	343175	38.9546	39.0	
51 Benzene	78	3.921	3.921	(0.909)	597273	49.8591	49.8	
40 Methacrylonitrile	67	3.488	3.488	(0.947)	51991	45.9009	45.9	
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.946	3.945	(0.915)	189409	47.5929	47.6	
56 tert-Amylmethyl ether	73	4.000	4.000	(1.086)	324939	41.2878	41.3	
52 1,2-Dichloroethane	62	4.013	4.012	(1.089)	161738	44.3131	44.3	
57 n-Heptane	43	4.080	4.080	(1.108)	176070	34.9158	34.9	
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	598951	50.0000		
59 Trichloroethene	95	4.506	4.506	(1.045)	143560	46.2129	46.2	
60 Methylcyclohexane	83	4.610	4.610	(1.069)	268579	43.7380	43.7	
49 Isobutanol	43	3.909	3.909	(1.061)	71067	179.295	179	
53 tert-Amyl Alcohol	59	Compound Not Detected.						
54 tert-Amyl ethyl ether	59	4.714	4.714	(1.280)	265730	38.4533	38.4	
61 1,2-Dichloropropane	63	4.775	4.768	(1.107)	156306	47.2917	47.3	
63 Methyl methacrylate	69	4.878	4.872	(1.131)	87670	46.4337	46.4	
64 1,4-Dioxane (p-Dioxane)	88	4.903	4.903	(1.137)	26415	1382.84	1380	
62 Dibromomethane	93	4.891	4.884	(1.134)	81161	48.6112	48.6	
65 Bromodichloromethane	83	5.037	5.037	(1.168)	177382	47.5125	47.5	
66 2-Nitropropane	43	5.360	5.366	(1.243)	25897	17.5636	17.6 (QR)	
67 2-Chloroethylvinyl ether	63	Compound Not Detected.						
68 cis-1,3-Dichloropropene	75	5.506	5.506	(1.277)	223303	49.6173	49.6	
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683	(1.318)	101240	40.1527	40.2	
\$ 70 Toluene-d8 (S)	98	5.726	5.726	(0.771)	732858	50.8915	50.9	
71 Toluene	91	5.799	5.799	(1.345)	631680	47.0081	47.0	
72 Methyl isothiocyanate	73	6.031	6.030	(1.399)	181709	107.845	108	
74 trans-1,3-Dichloropropene	75	6.146	6.146	(1.426)	182542	47.9847	48.0	
75 Ethyl methacrylate	69	6.201	6.201	(1.438)	155594	44.7257	44.7	
76 1,1,2-Trichloroethane	83	6.348	6.341	(1.472)	105746	46.2276	46.2	
77 Tetrachloroethene	166	6.360	6.360	(0.856)	138980	46.9989	47.0	

Compounds	QUANT SIG		CONCENTRATIONS					REVIEW C
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76	6.537	6.536	(0.880)	218393	48.7727	48.8	
79 2-Hexanone	43	6.628	6.628	(0.892)	64996	35.1999	35.2	
73 n-Octane	43	5.860	5.860	(1.359)	151229	33.9985	34.0 (Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	35059	45.7186	45.7	
80 Dibromochloromethane	129	6.750	6.750	(0.909)	110640	46.2057	46.2	
82 1,2-Dibromoethane (EDB)	107	6.884	6.878	(1.597)	110641	46.5992	46.6	
* 83 Chlorobenzene-d5 (IS)	82	7.427	7.426	(1.000)	297232	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.006)	391048	48.8486	48.8	
86 Ethylbenzene	106	7.597	7.603	(1.023)	219245	47.1286	47.1	
85 1,1,1,2-Tetrachloroethane	131	7.610	7.609	(1.025)	119977	48.4076	48.4	
88 n-Nonane	43	7.762	7.762	(1.045)	108959	34.7551	34.8 (Q)	
87 m&p-Xylene	106	7.780	7.780	(1.048)	544429	97.3358	97.3	
89 o-Xylene	106	8.365	8.365	(1.126)	274300	51.4179	51.4	
90 Styrene	104	8.408	8.408	(1.132)	450161	51.4898	51.5	
91 Bromoform	173	8.646	8.646	(1.164)	63568	47.7399	47.7	
92 Isopropylbenzene (Cumene)	105	8.817	8.816	(0.875)	661059	46.2110	46.2	
§ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.215)	262405	49.6450	49.6	
94 Bromobenzene	156	9.146	9.146	(0.908)	155018	49.0153	49.0	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	141954	46.7392	46.7	
98 n-Propylbenzene	91	9.249	9.249	(0.918)	829250	45.9007	45.9	
96 1,2,3-Trichloropropane	110	9.274	9.274	(0.921)	39493	46.0390	46.0	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	30978	49.9628	50.0	
103 n-Decane	43	9.420	9.420	(1.268)	108462	44.5771	44.6 (Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	482750	45.5151	45.5	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	688851	46.0291	46.0	
101 1,3,5-Trimethylbenzene	105	9.445	9.444	(0.938)	575141	49.3543	49.4	
102 4-Chlorotoluene	91	9.457	9.457	(0.939)	551998	47.0904	47.1	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	463653	47.2909	47.3	
105 Pentachloroethane	167	9.755	9.749	(0.969)	82028	49.1131	49.1	
106 1,2,4-Trimethylbenzene	105	9.768	9.767	(0.970)	565721	48.2846	48.3	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	686597	45.2023	45.2	
109 d-Limonene	136	9.969	9.969	(1.342)	22777	46.0653	46.1	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	590686	48.1849	48.2	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	294999	49.2098	49.2	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	261964	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	301176	48.8254	48.8	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	571605	47.6631	47.7	
114 Benzyl chloride	91	10.225	10.225	(1.015)	157949	39.1533	39.2	
115 trans-Decalin	138	10.292	10.292	(1.022)	82935	41.7045	41.7	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	313232	45.1778	45.2	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	646588	46.3050	46.3	
119 n-Undecane	43	10.450	10.450	(1.038)	105816	77.7865	77.8 (Q)	
118 1,2-Dichlorobenzene	146	10.402	10.401	(1.033)	274204	49.7125	49.7	
120 cis-Decalin	138	10.810	10.816	(1.073)	64996	43.3539	43.4	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	478978	49.6680	49.7	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	17943	41.7822	41.8	
123 n-Dodecane	43	11.584	11.584	(1.150)	94819	163.446	163 (Q)	
124 1,2,4-Trichlorobenzene	180	12.194	12.188	(1.211)	137981	50.3999	50.4	
125 Hexachloro-1,3-butadiene	225	12.383	12.383	(1.229)	50983	39.5427	39.5	
126 Naphthalene	128	12.560	12.560	(1.247)	296256	48.1838	48.2	
127 1,2,3-Trichlorobenzene	180	12.962	12.956	(1.287)	99366	47.2531	47.2	

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D  
Report Date: 21-Oct-2021 11:11

#### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

#### Review Codes Legend

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Report Date: 21-Oct-2021 11:11

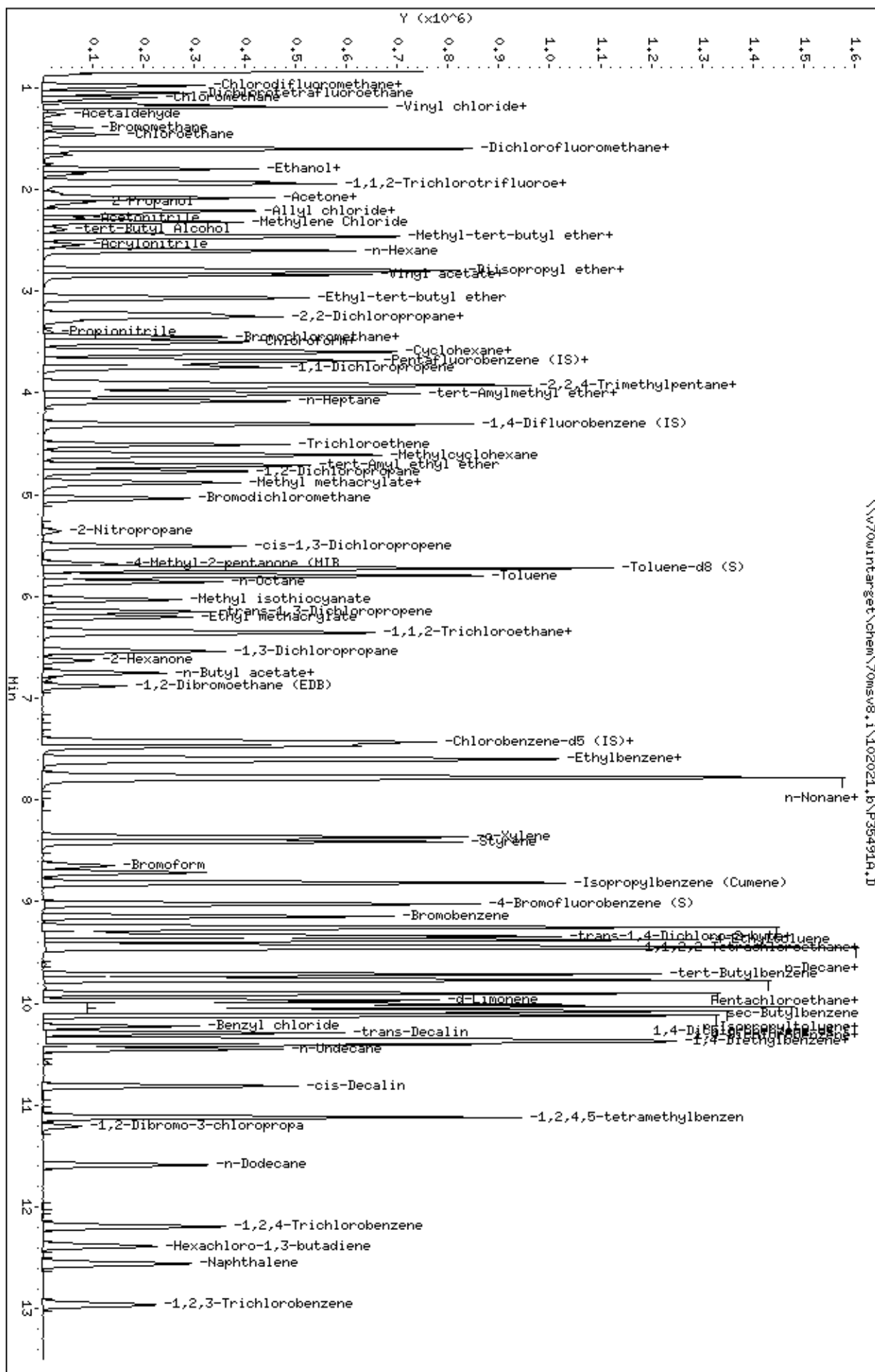
Pace Analytical Services, Inc.

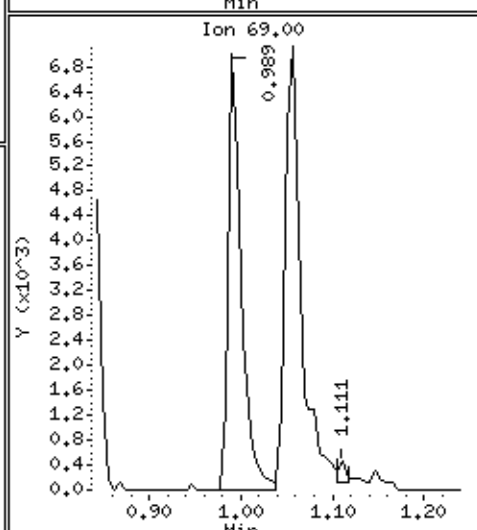
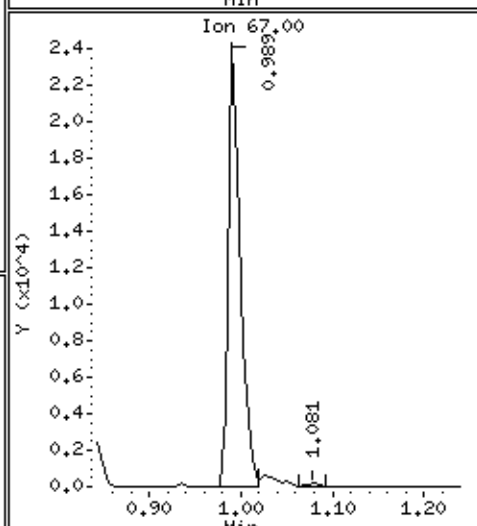
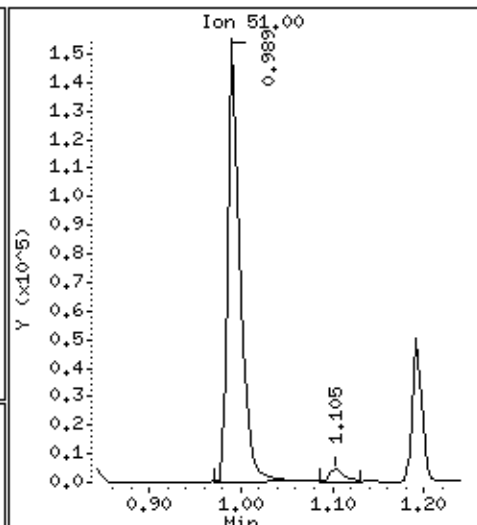
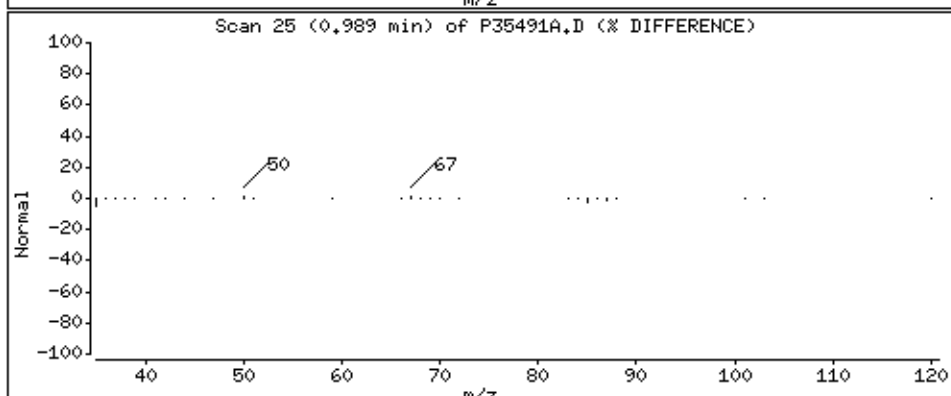
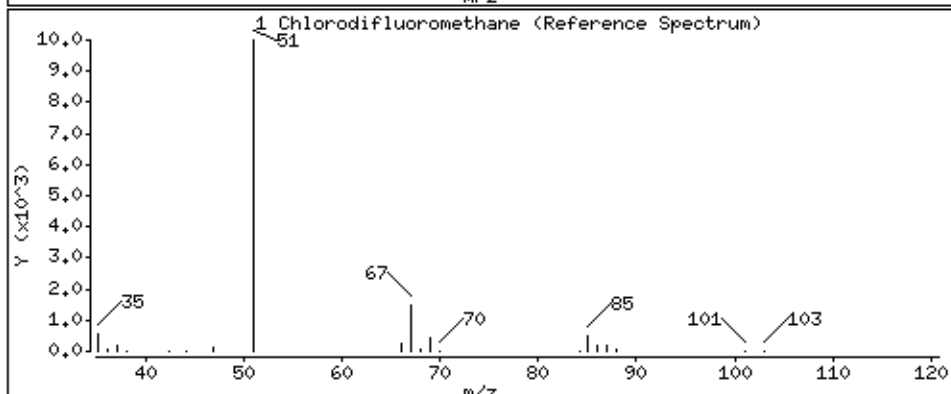
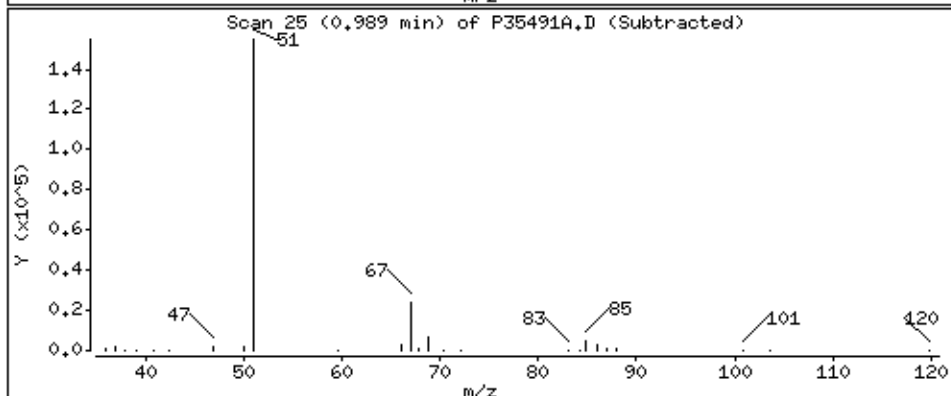
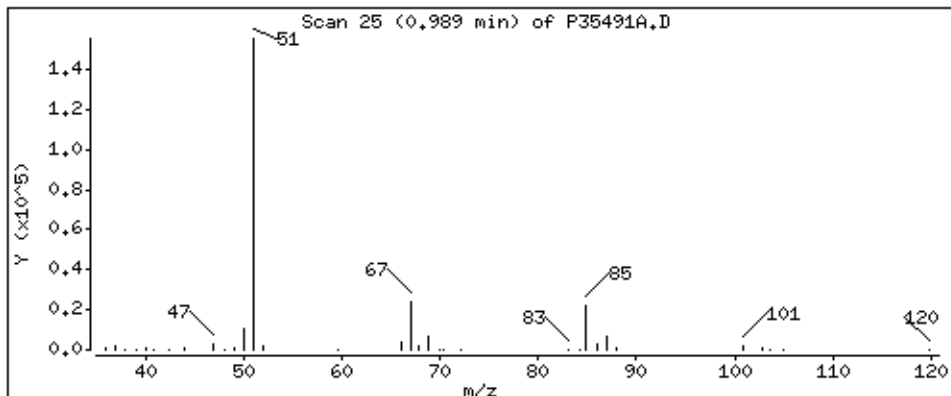
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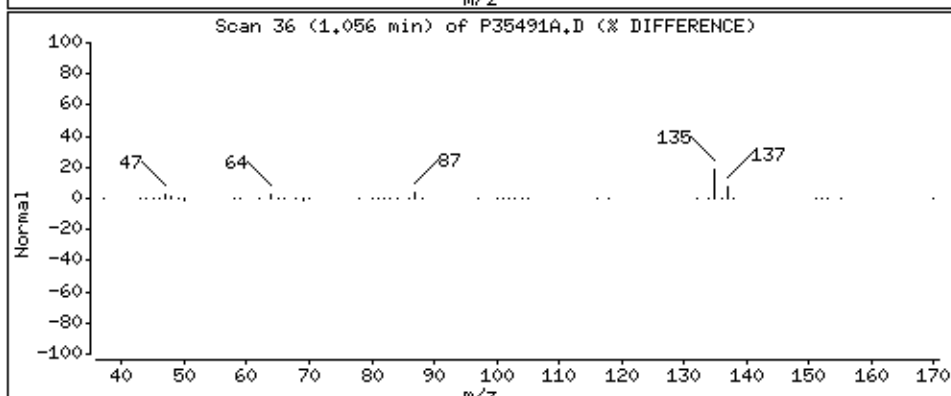
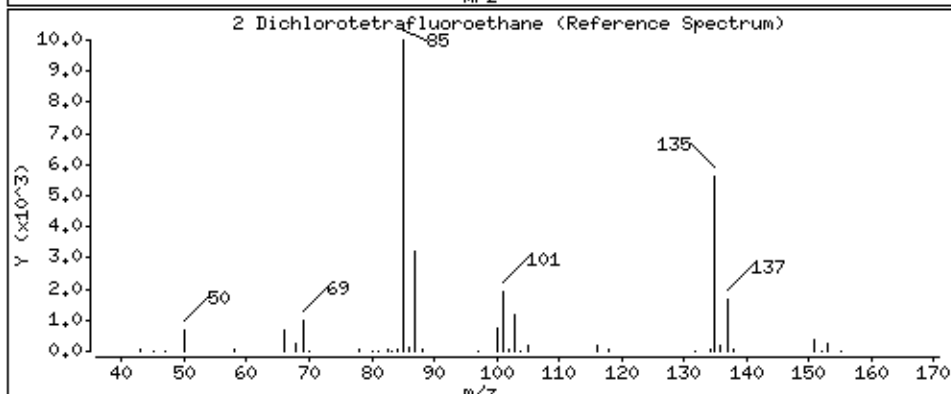
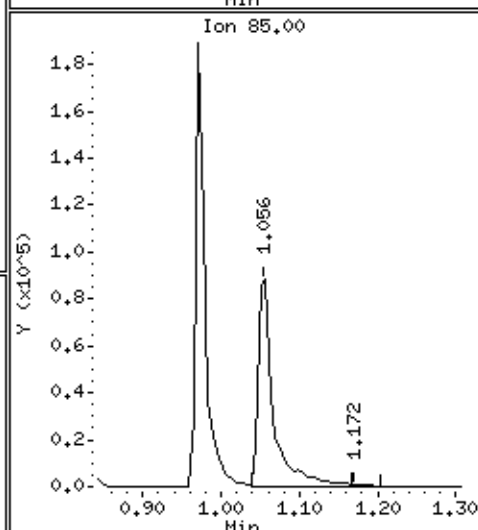
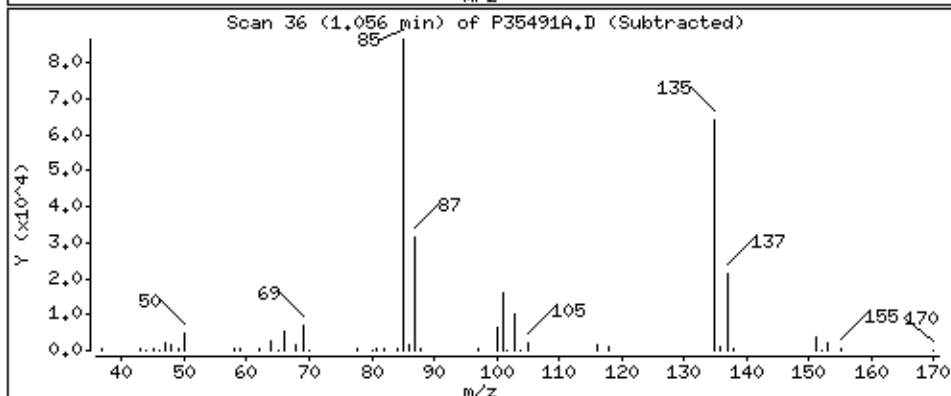
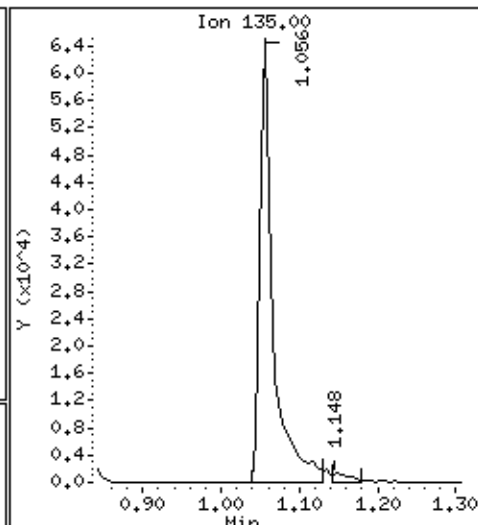
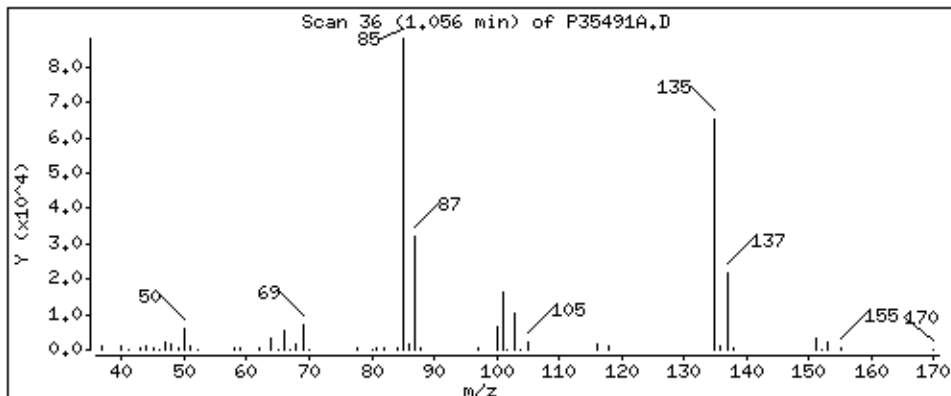
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Dil Factor: 1.00000  
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Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -









Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

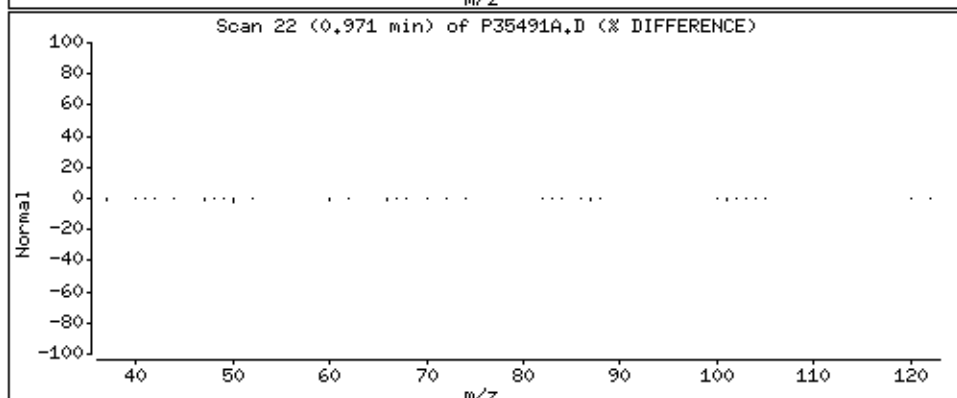
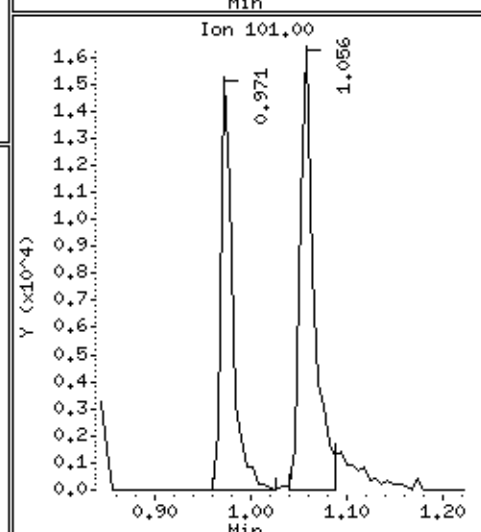
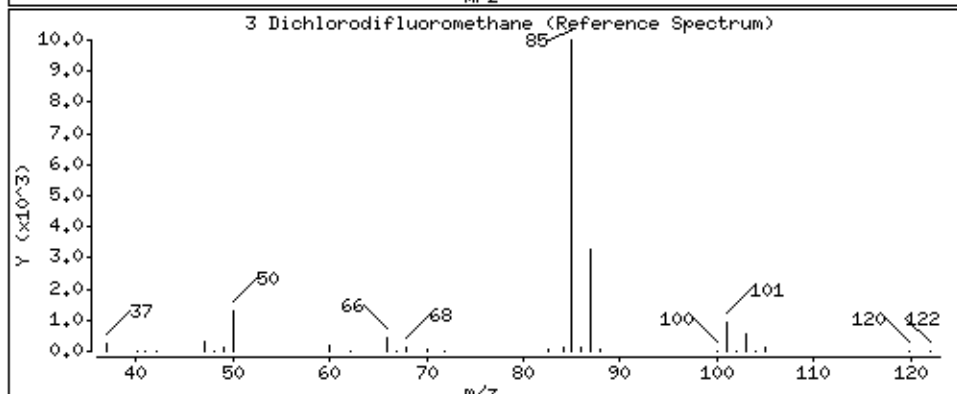
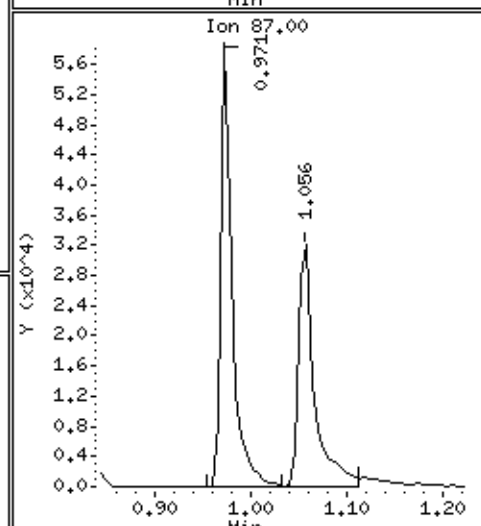
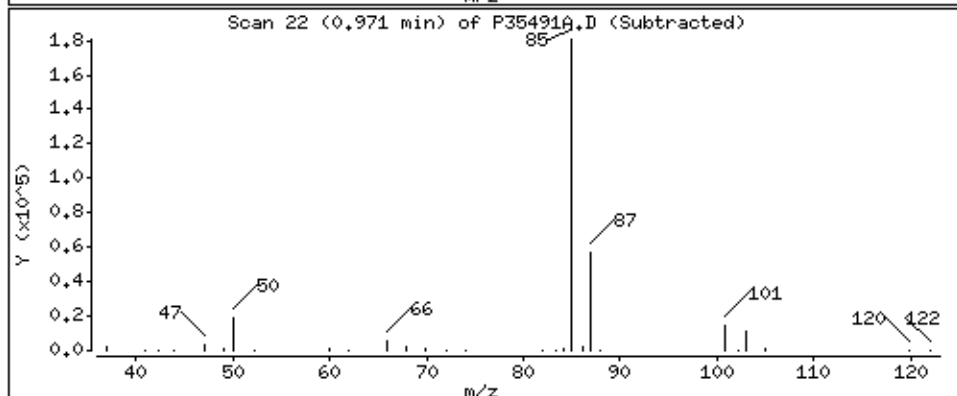
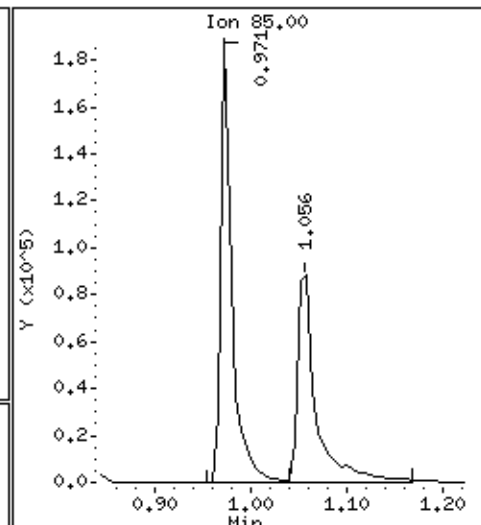
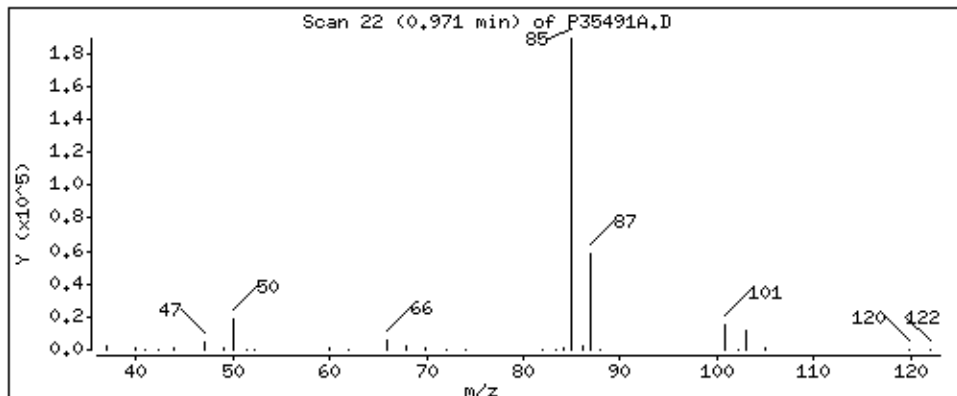
Column phase: RTX-624

Column diameter: 0,18

3 Dichlorodifluoromethane

Concentration: 39,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

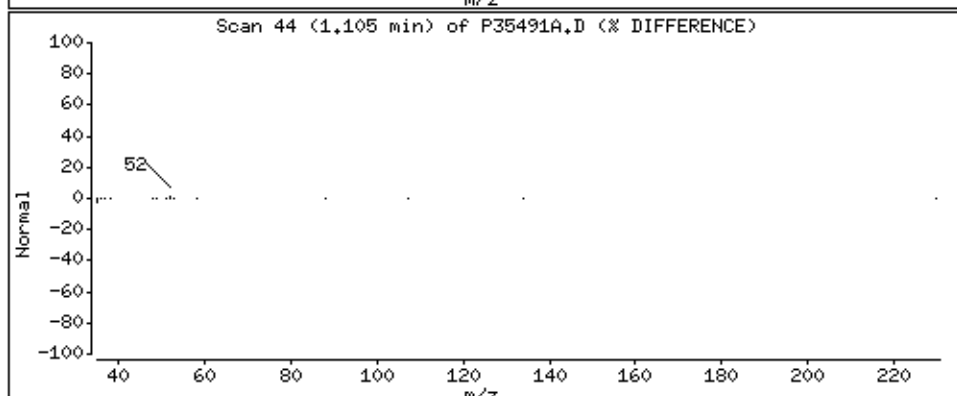
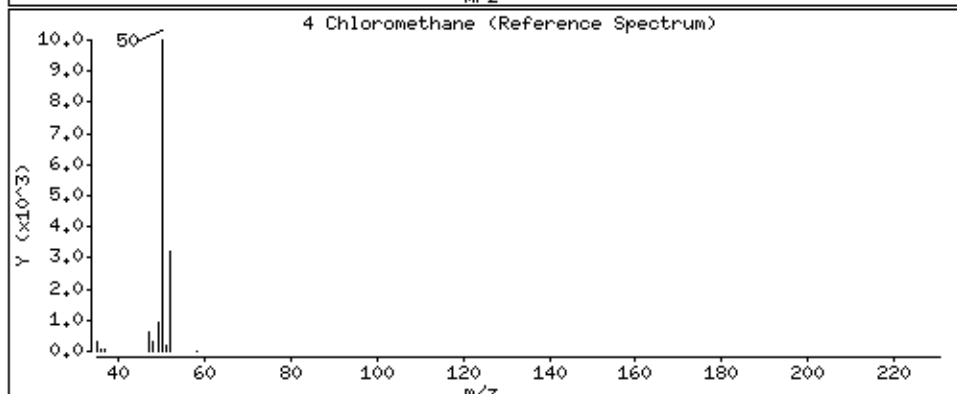
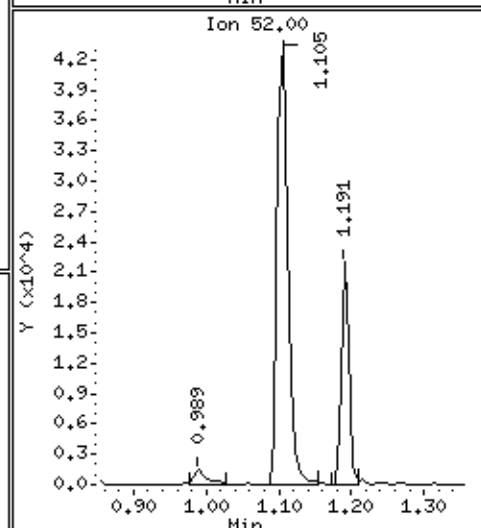
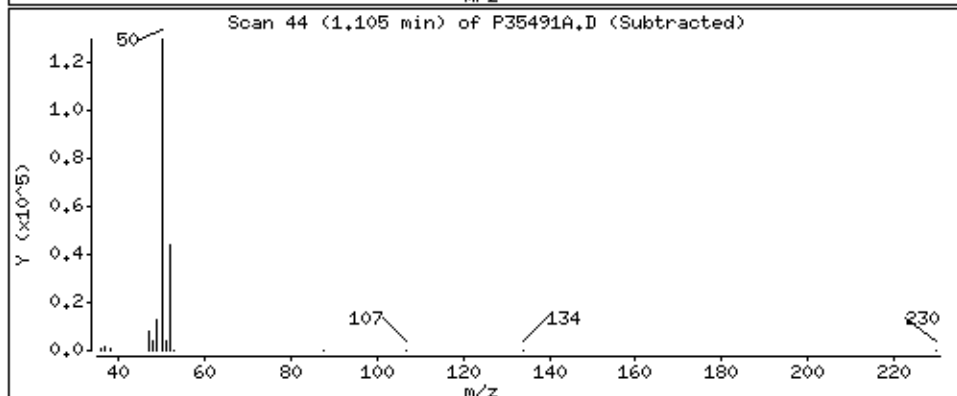
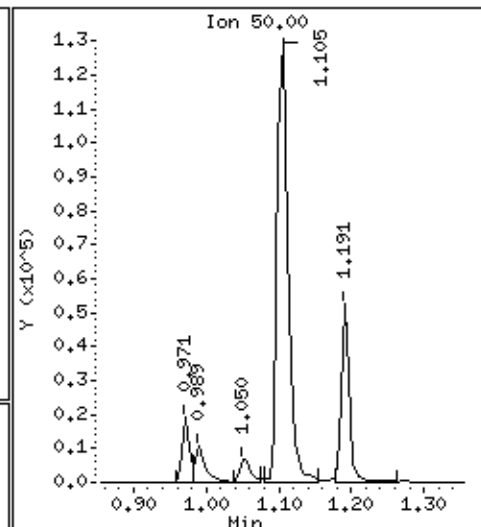
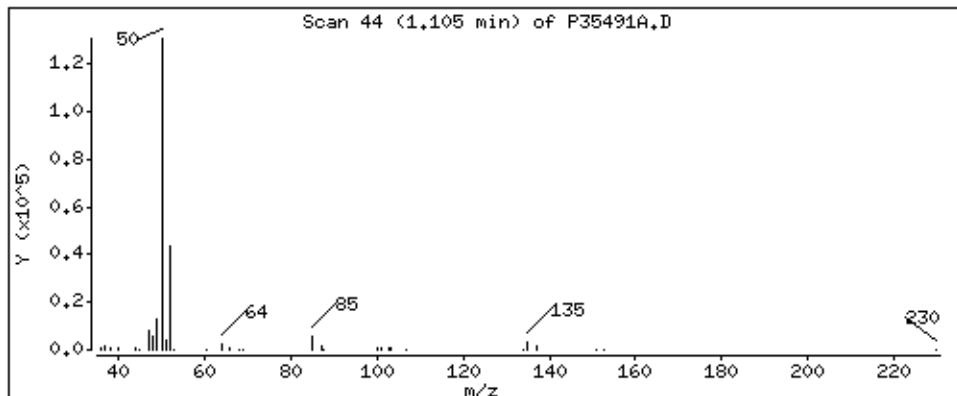
Column phase: RTX-624

Column diameter: 0,18

4 Chloromethane

Concentration: 33,0 ug/L

Review Code:



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Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

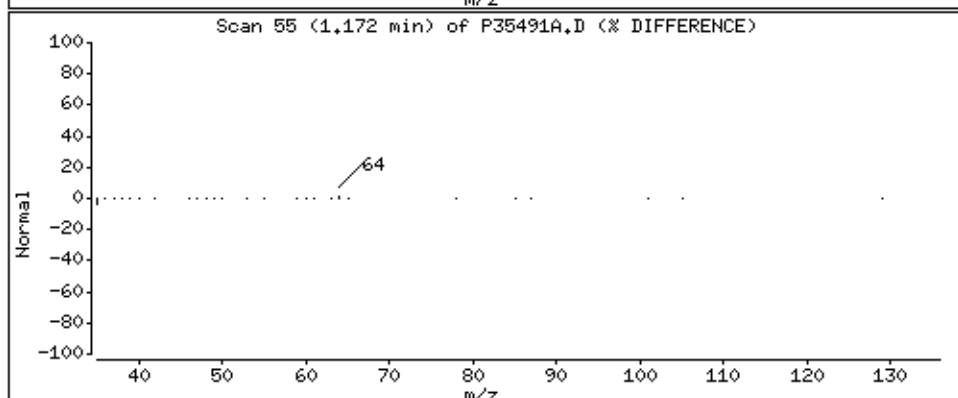
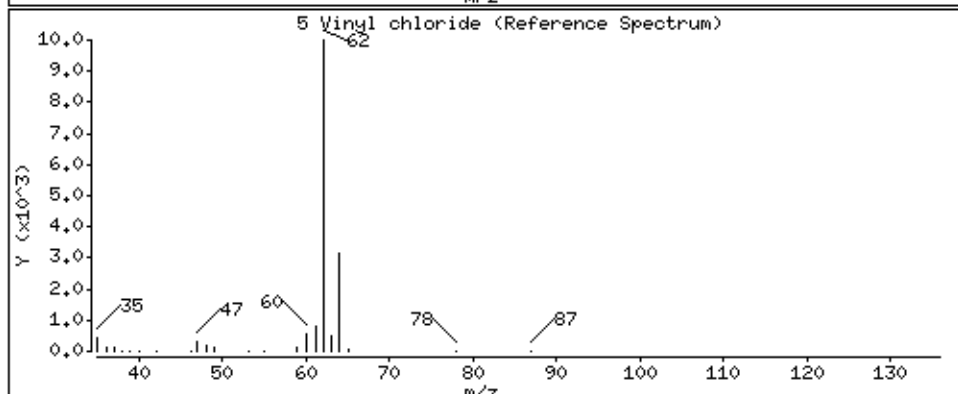
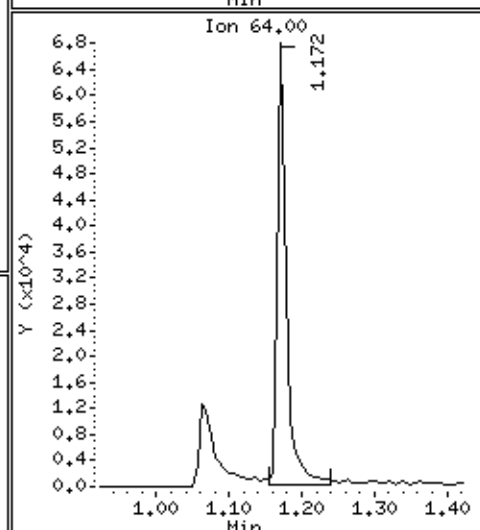
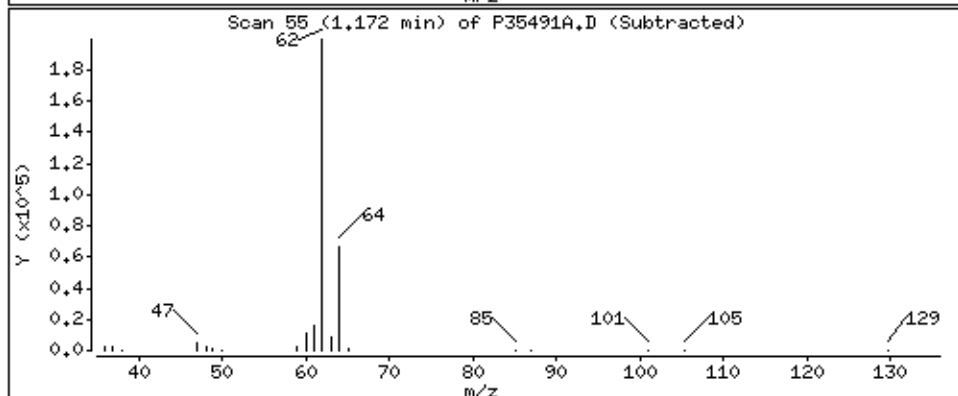
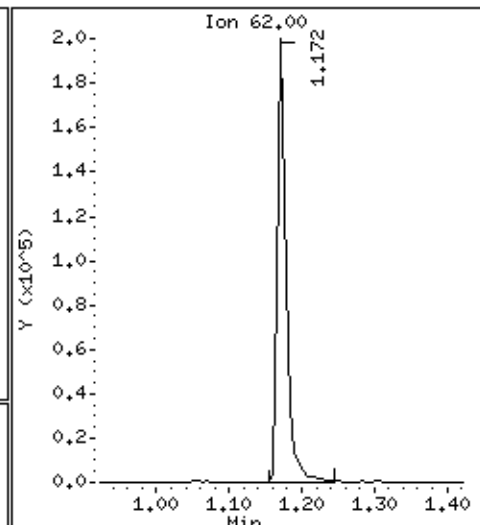
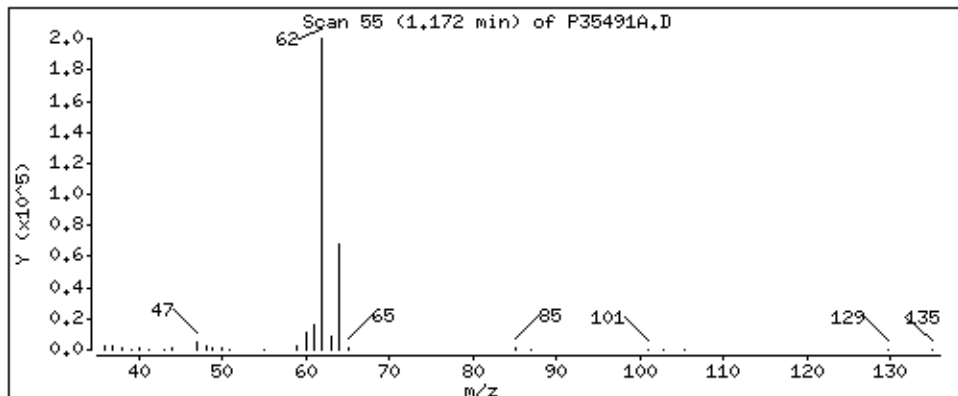
Column phase: RTX-624

Column diameter: 0,18

5 Vinyl chloride

Concentration: 37,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

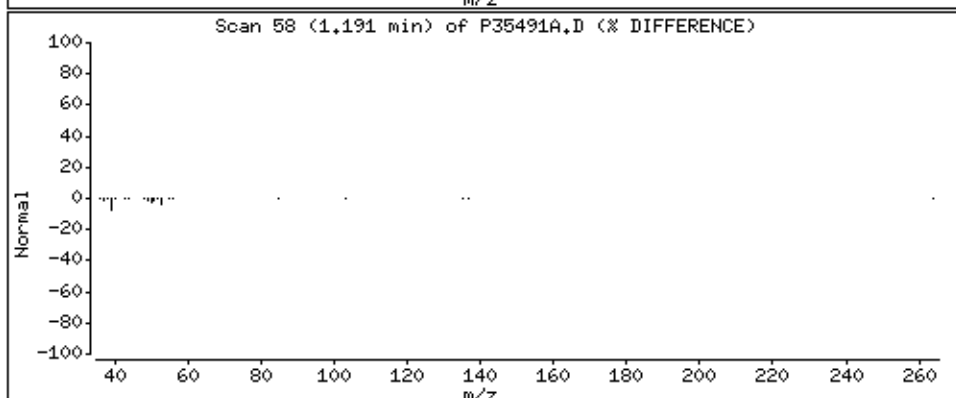
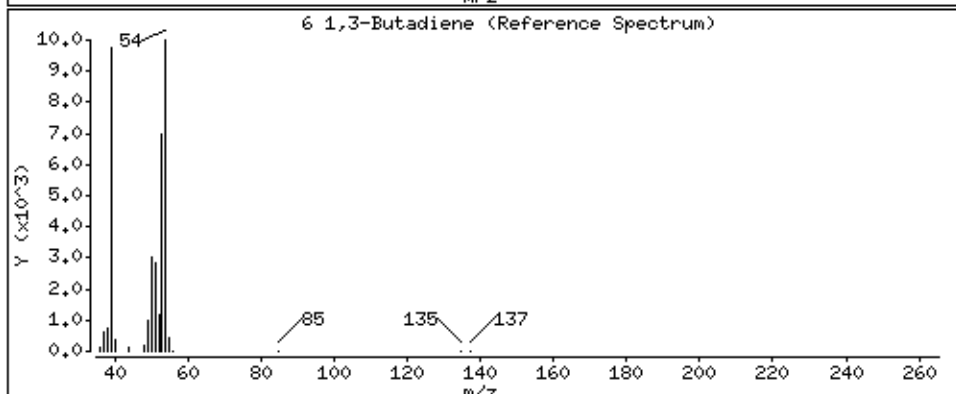
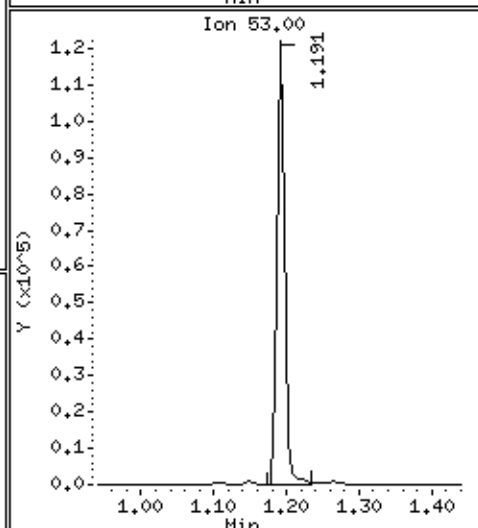
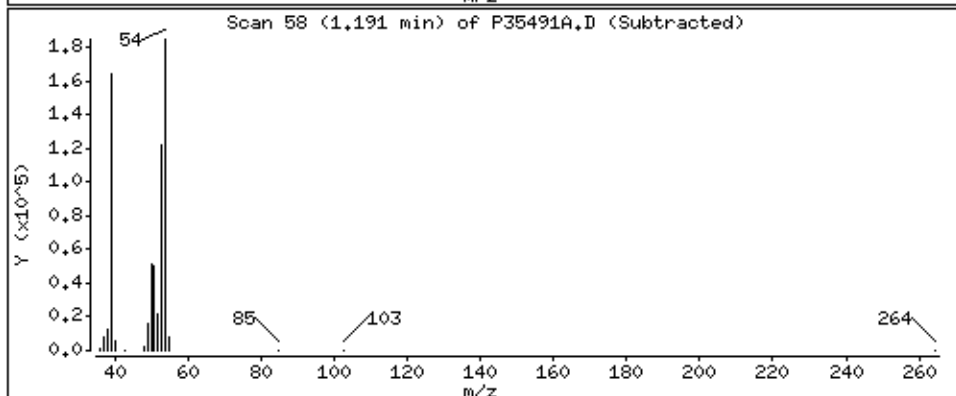
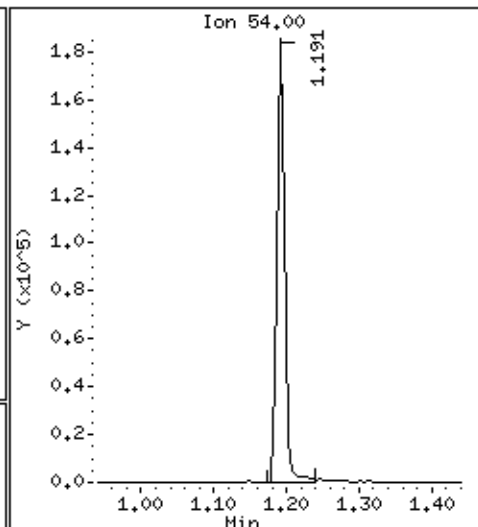
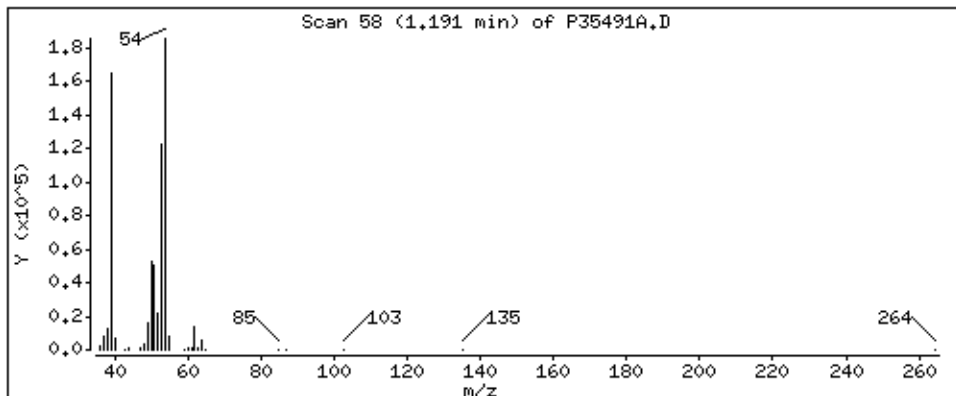
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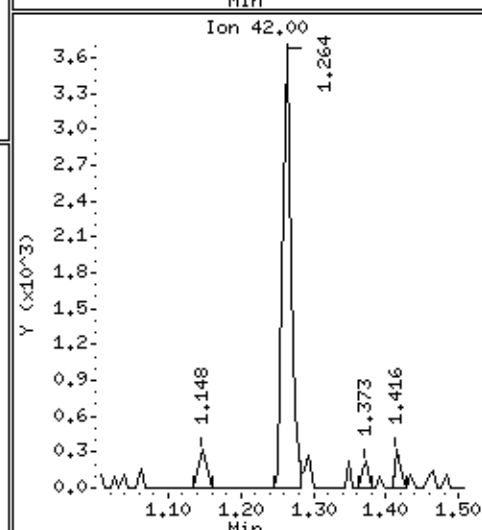
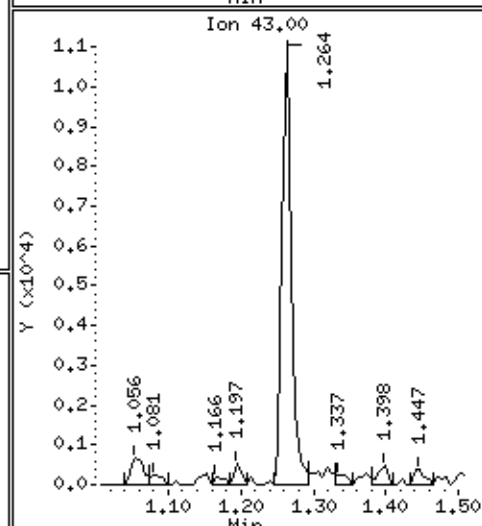
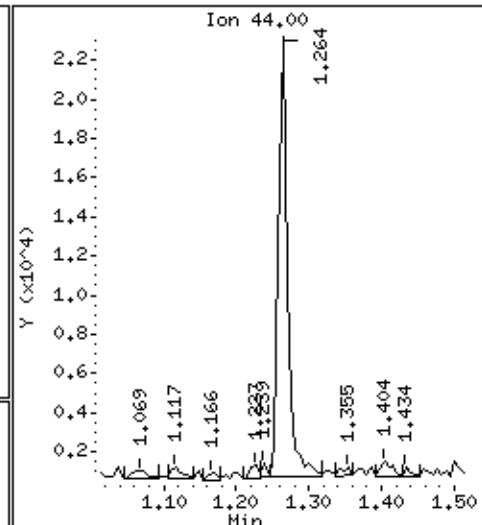
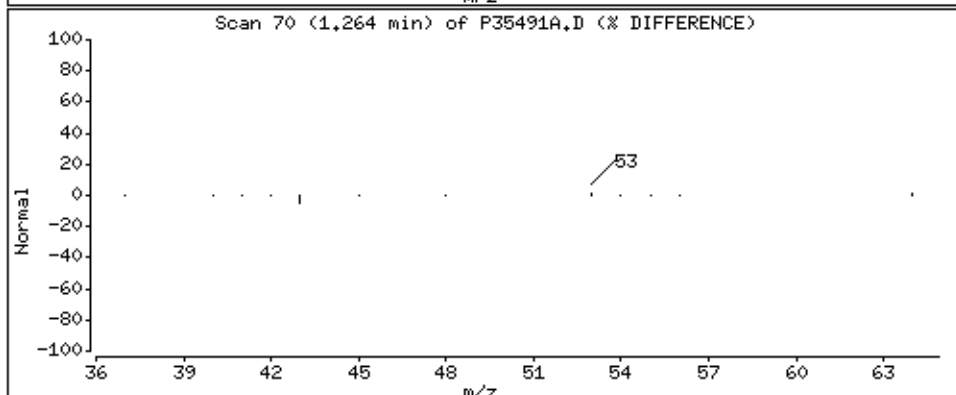
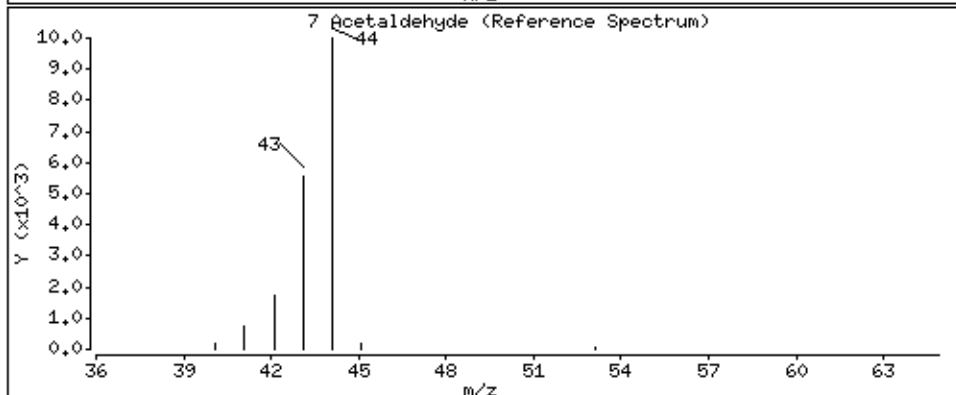
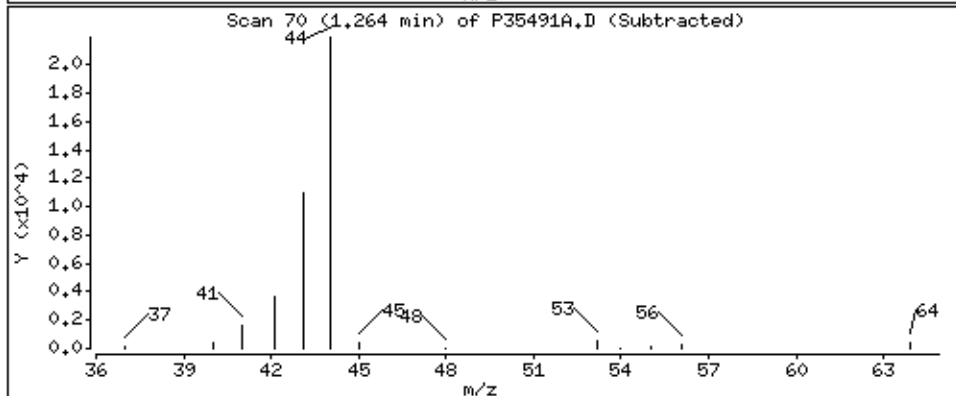
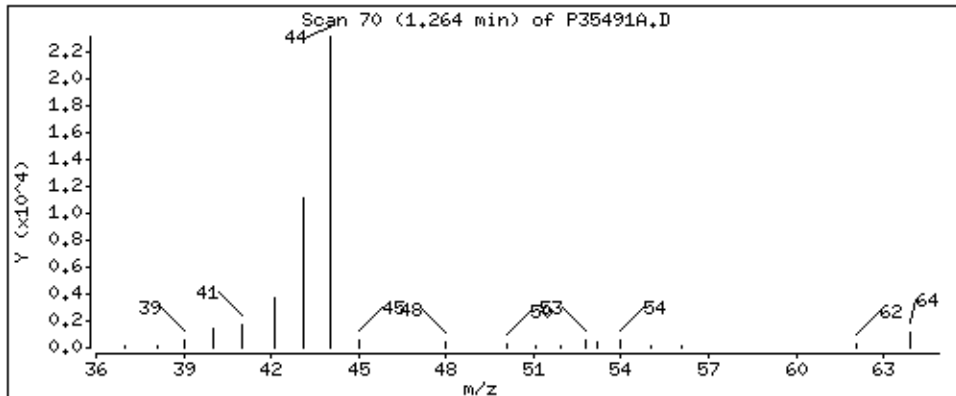
Column diameter: 0,18

6 1,3-Butadiene

Concentration: 39,4 ug/L

Review Code:







Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

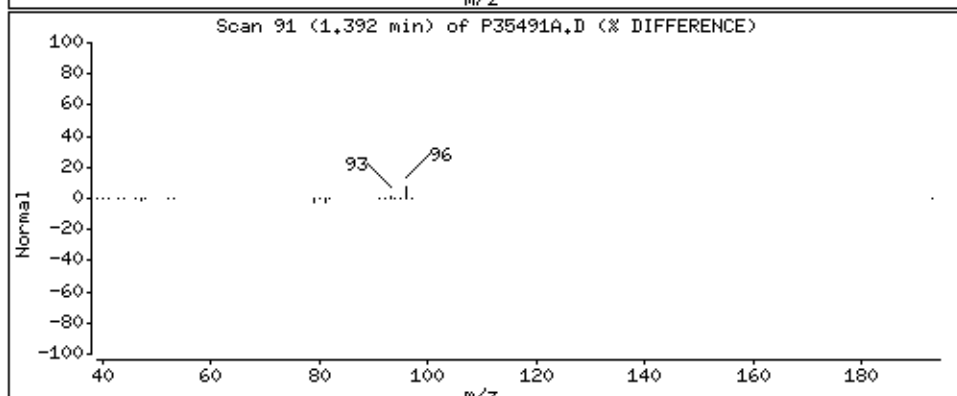
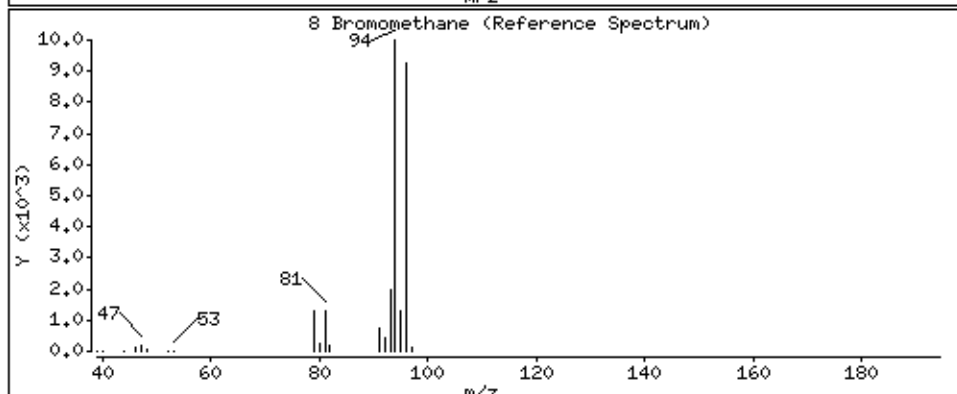
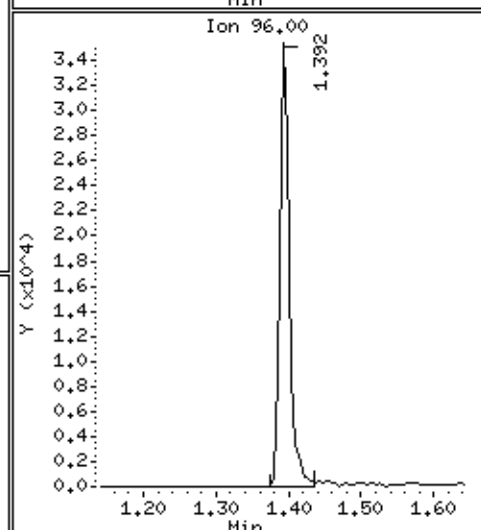
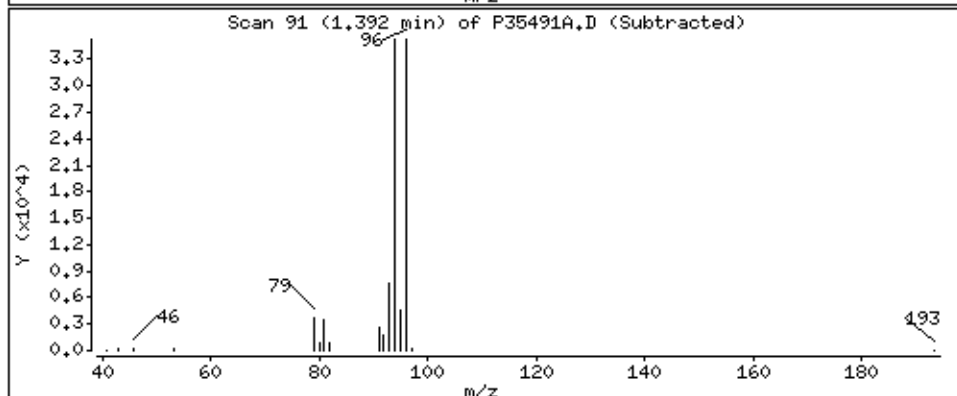
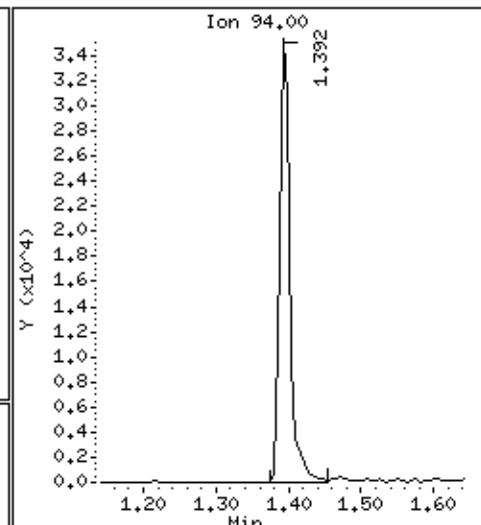
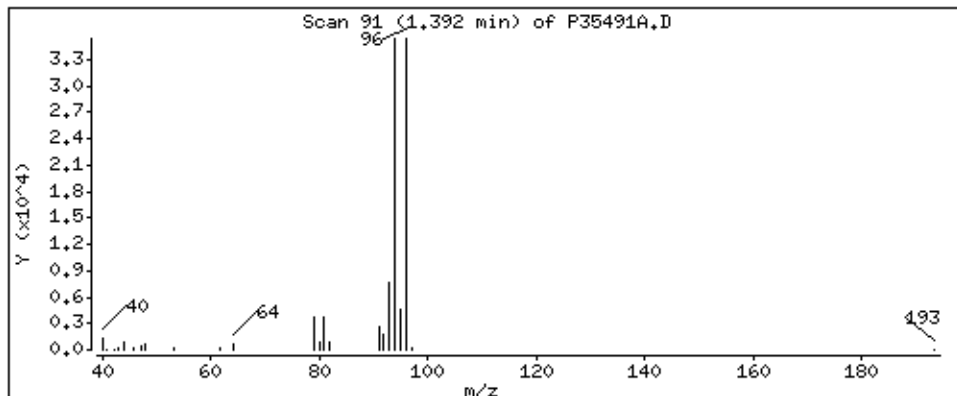
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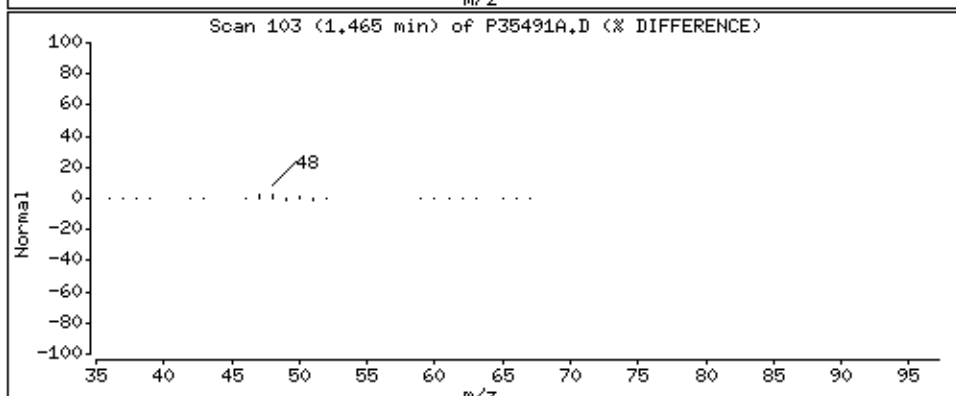
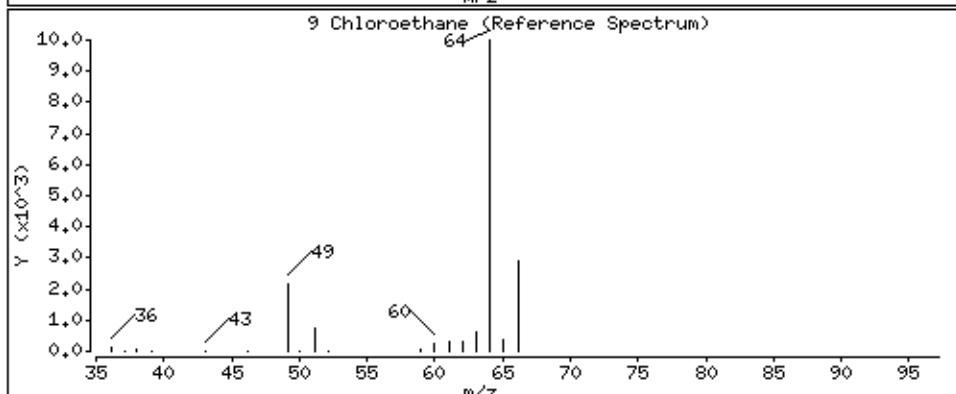
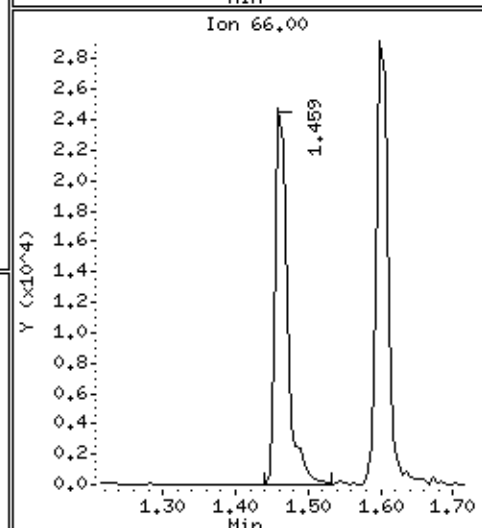
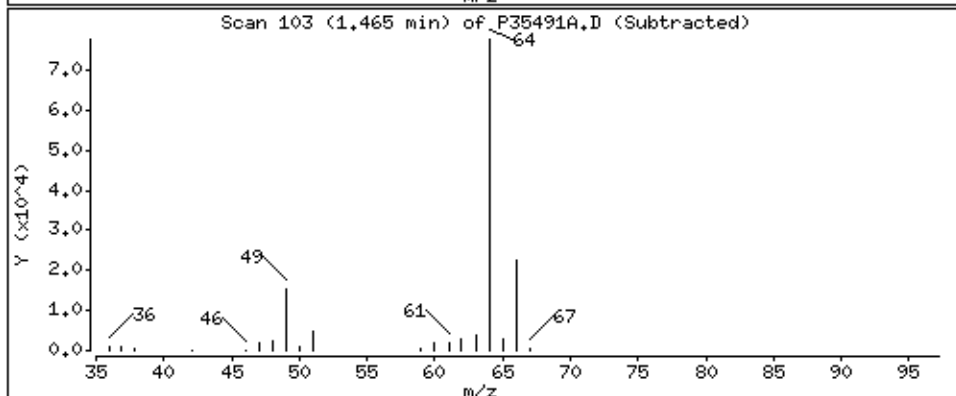
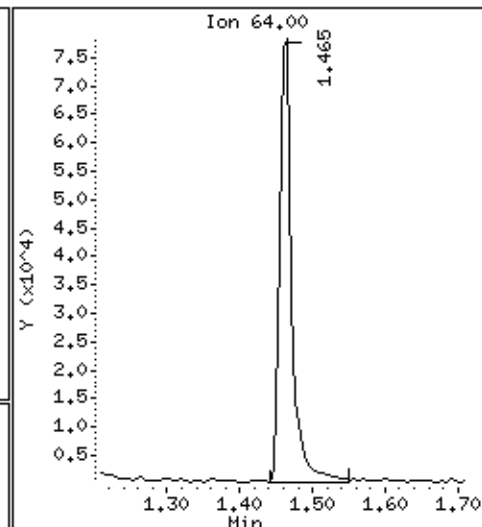
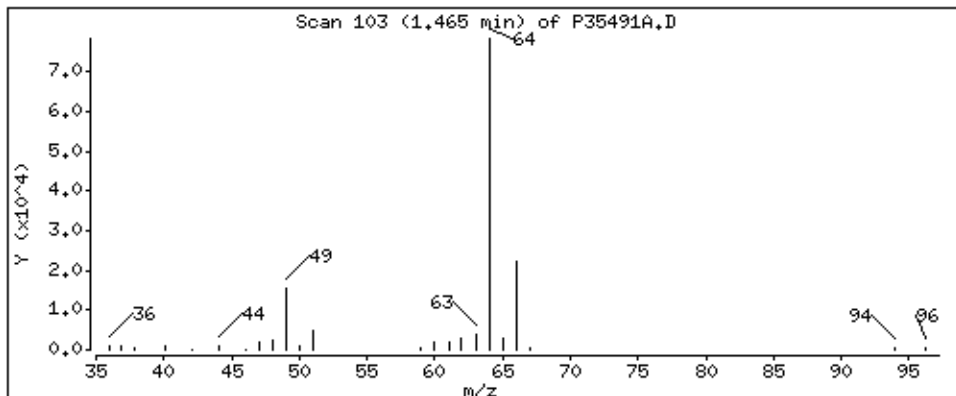
Column diameter: 0.18

8 Bromomethane

Concentration: 26.8 ug/L

Review Code:

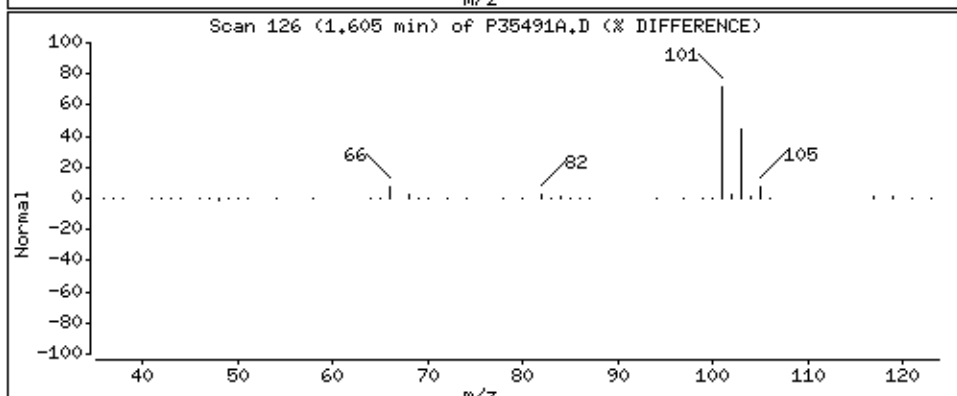
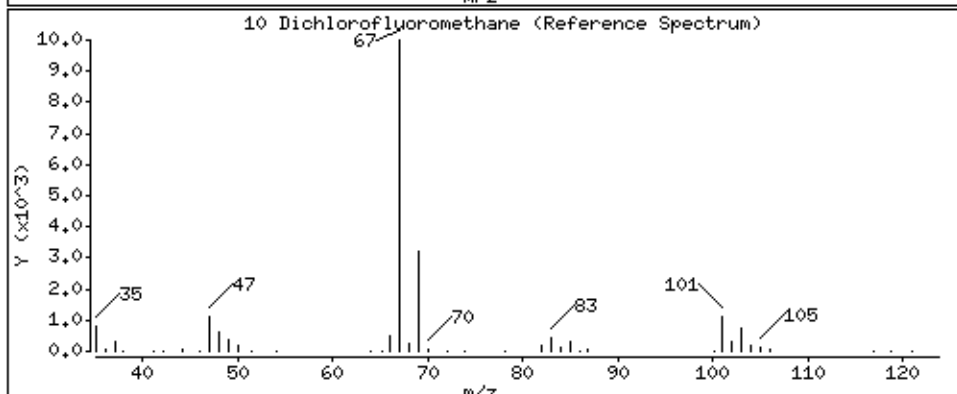
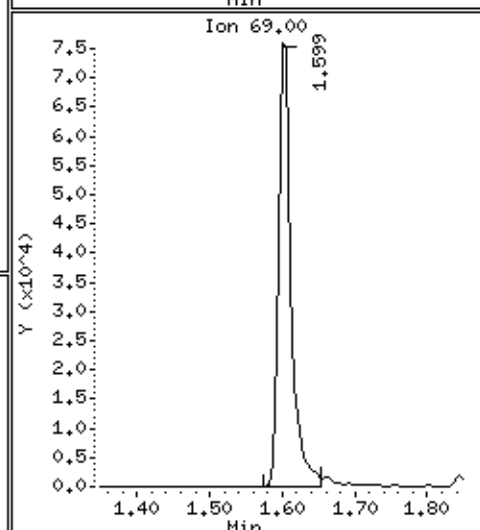
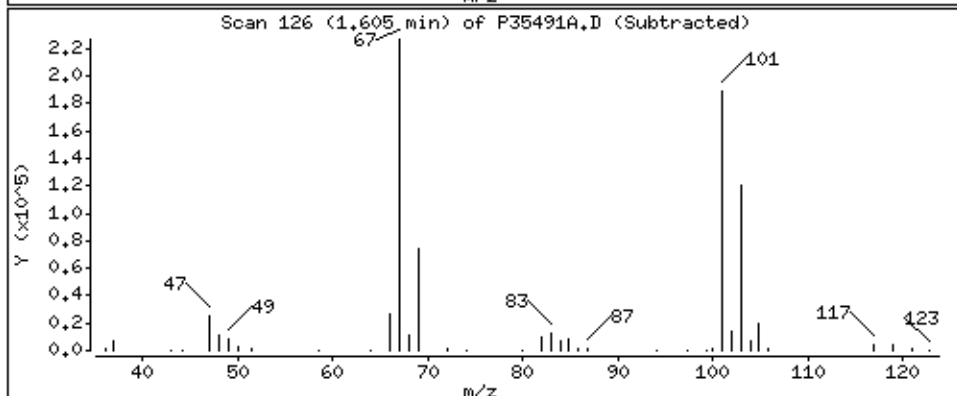
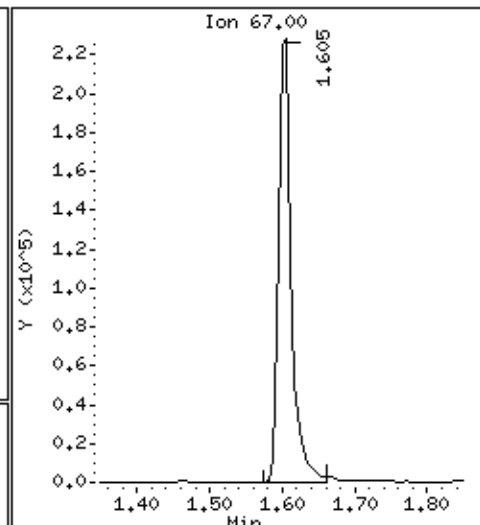
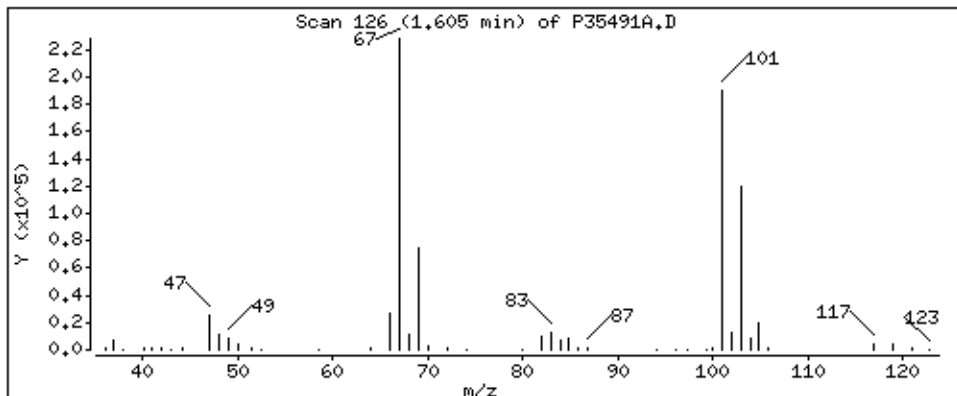




10 Dichlorofluoromethane

Concentration: 53,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

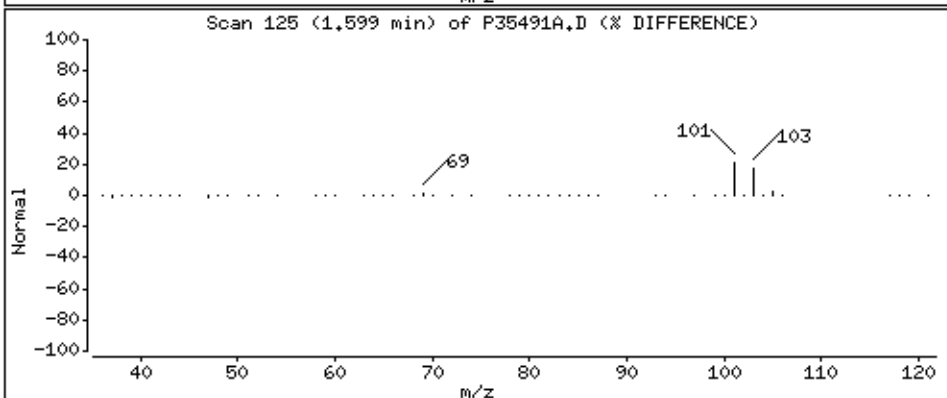
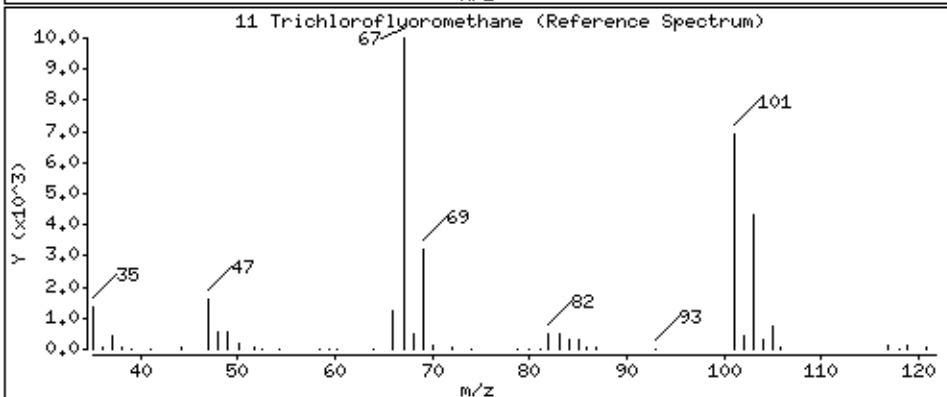
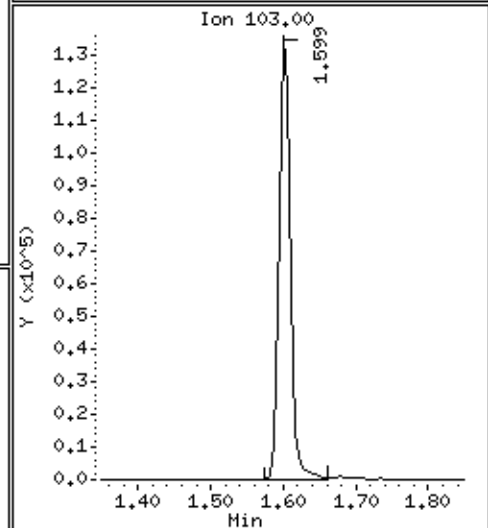
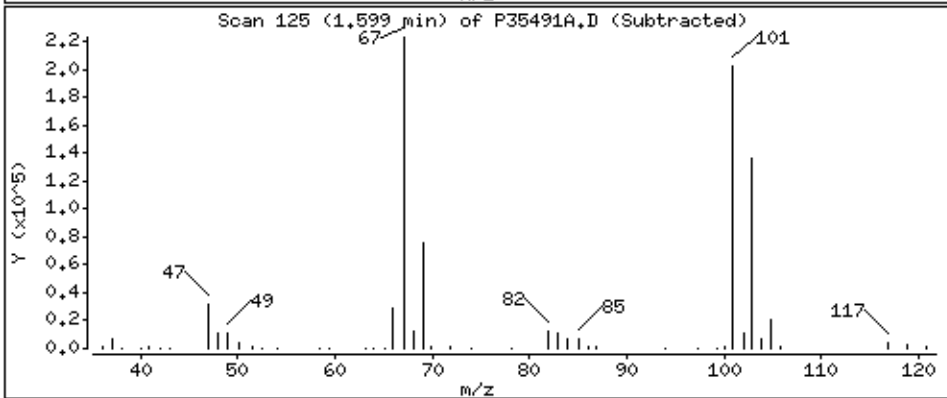
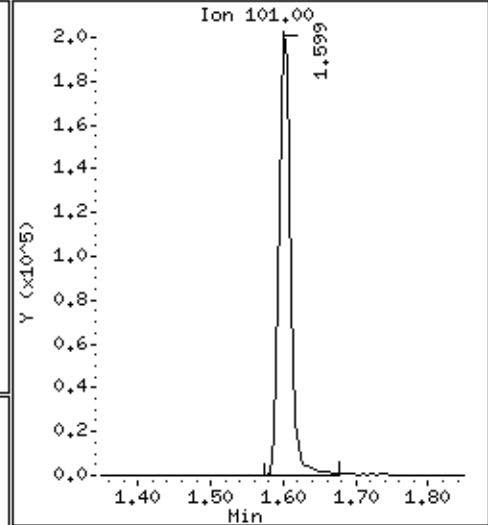
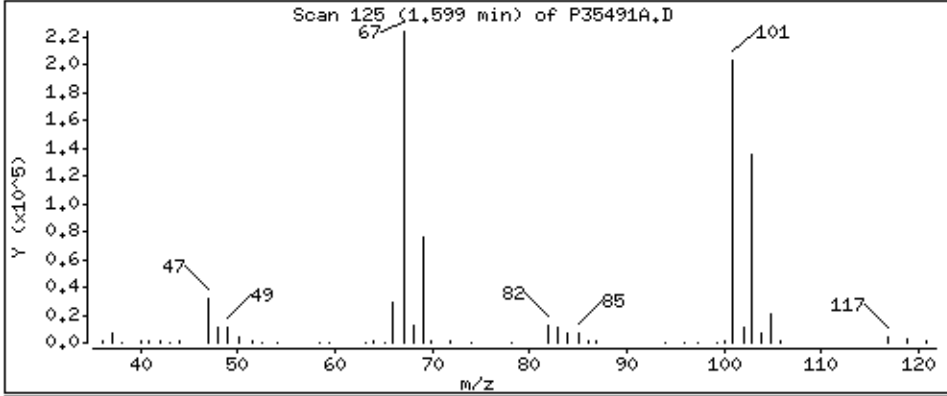
Column phase: RTX-624

Column diameter: 0,18

11 Trichlorofluoromethane

Concentration: 52.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

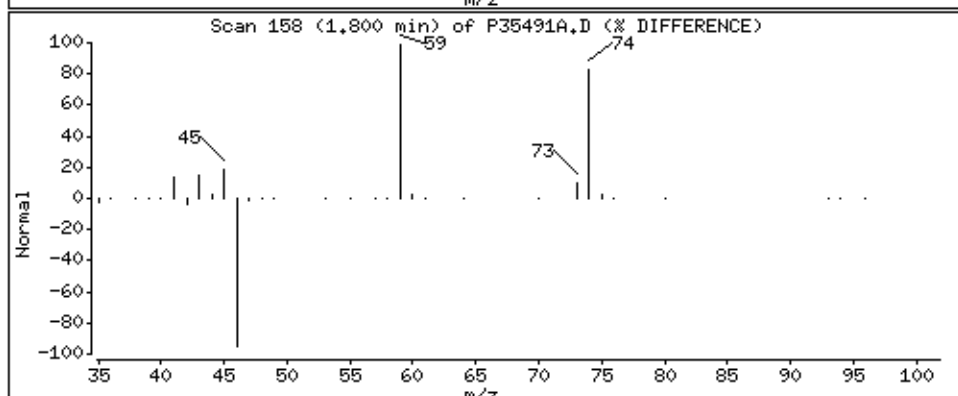
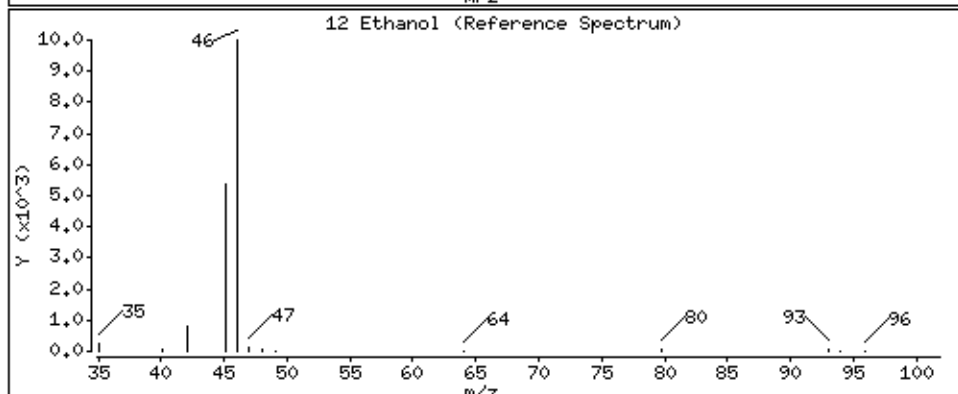
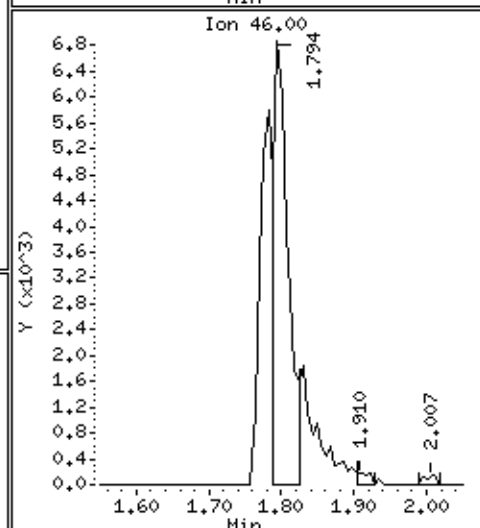
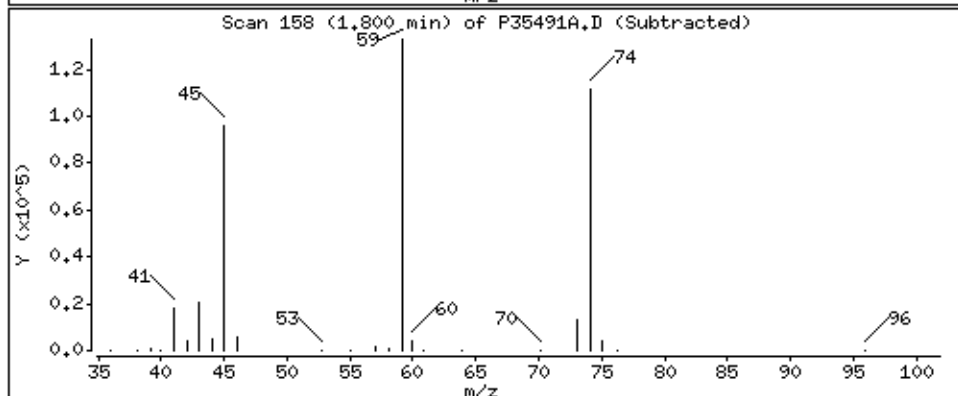
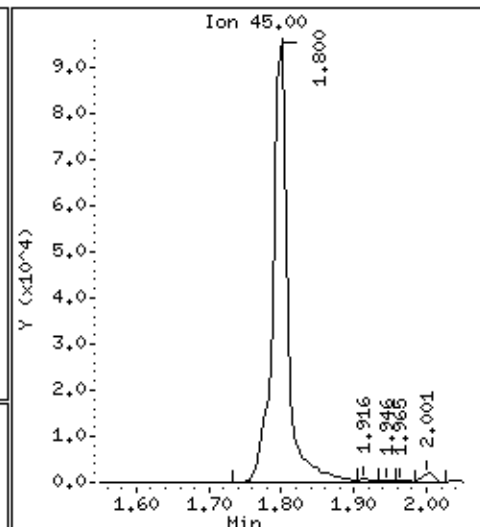
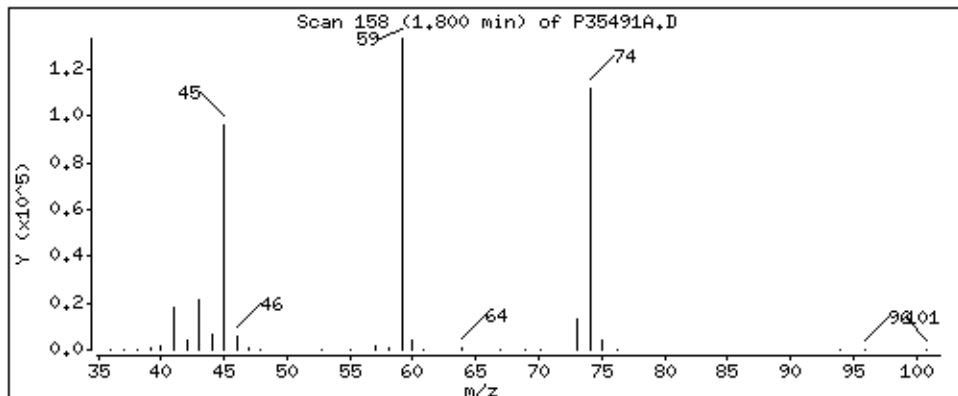
Column phase: RTX-624

Column diameter: 0.18

12 Ethanol

Concentration: 10100 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

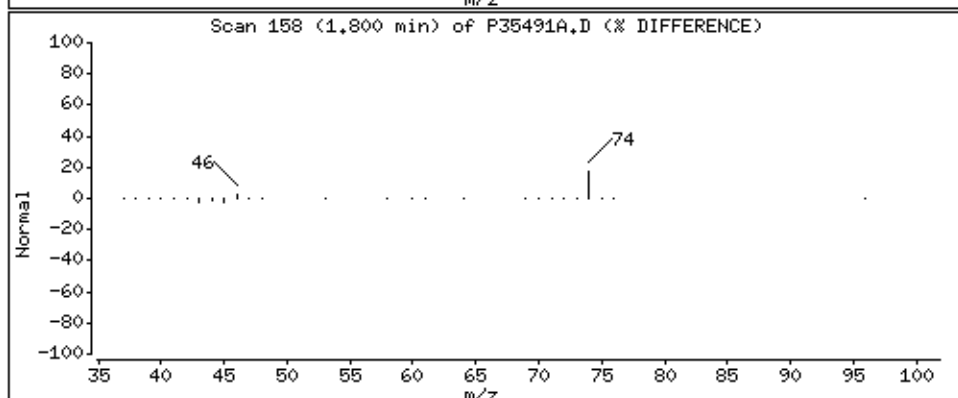
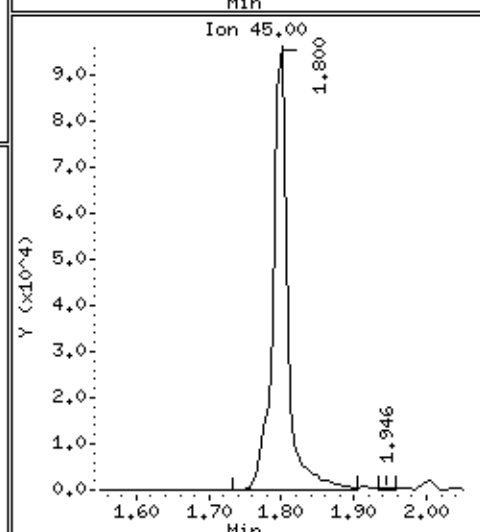
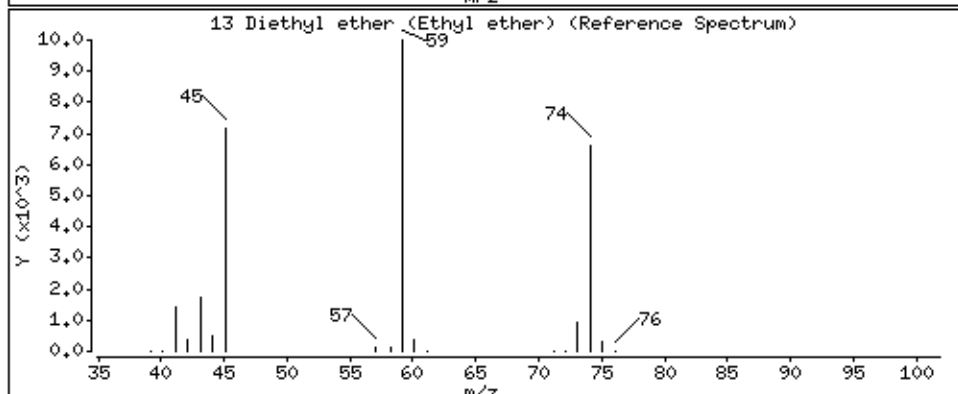
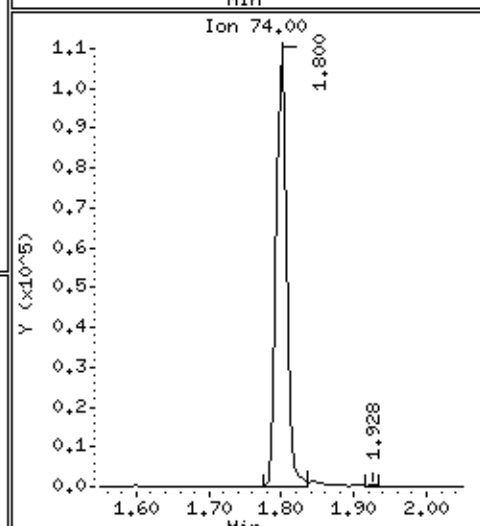
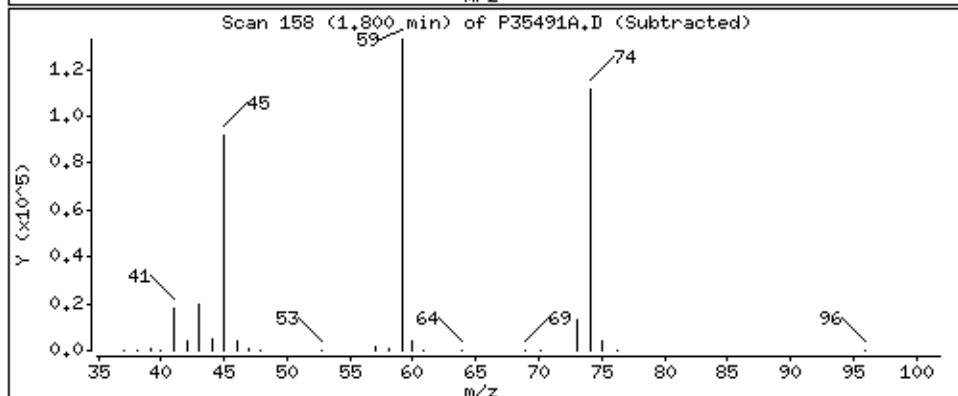
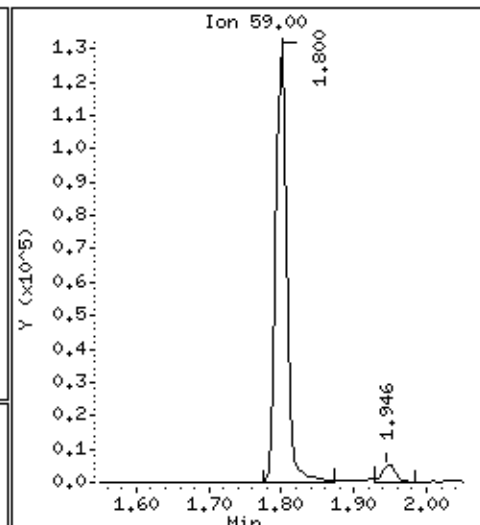
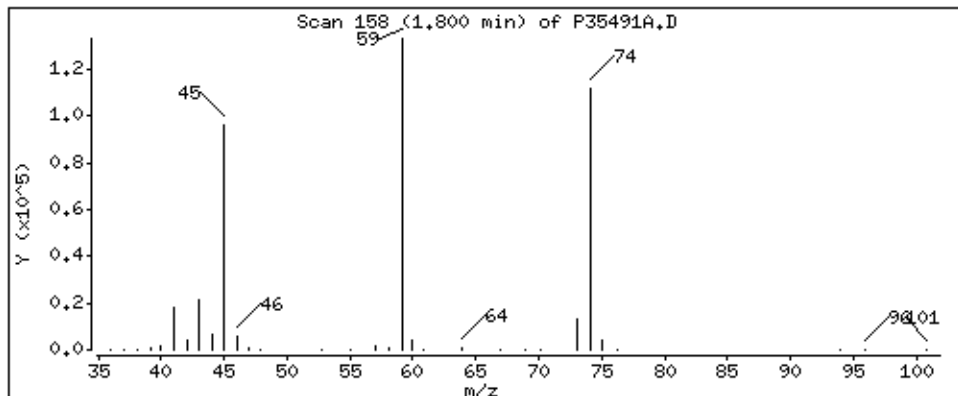
Column phase: RTX-624

Column diameter: 0,18

13 Diethyl ether (Ethyl ether)

Concentration: 54,0 ug/L

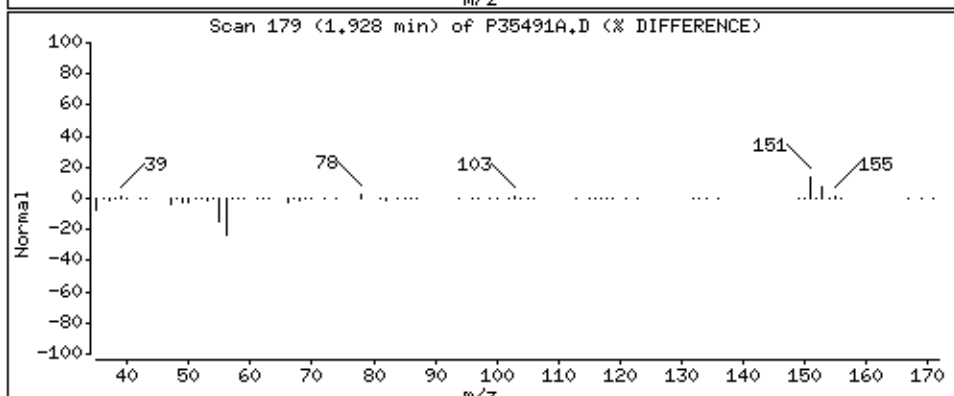
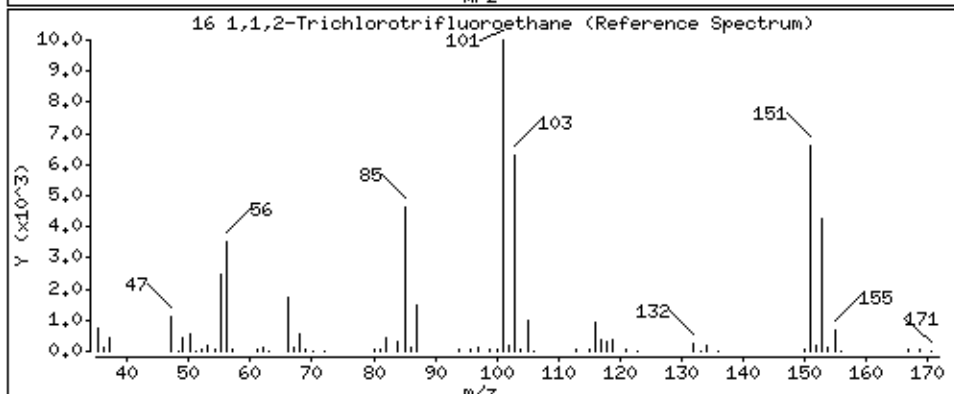
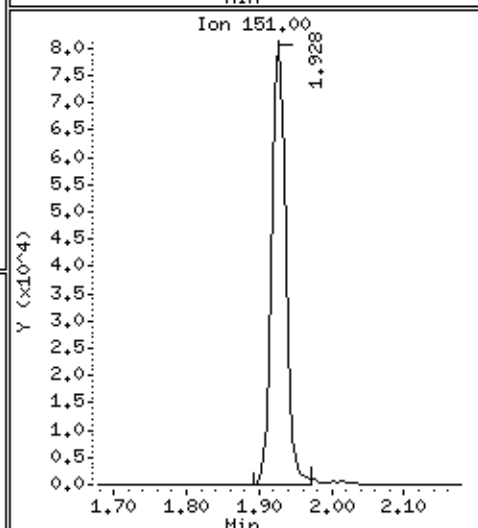
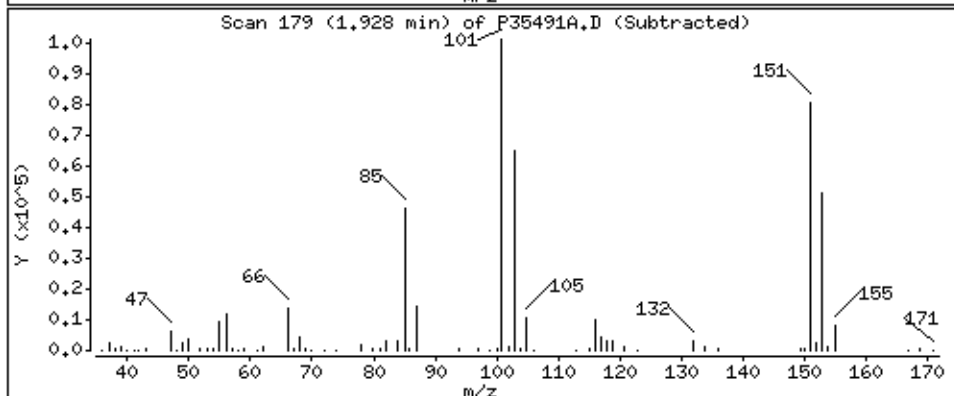
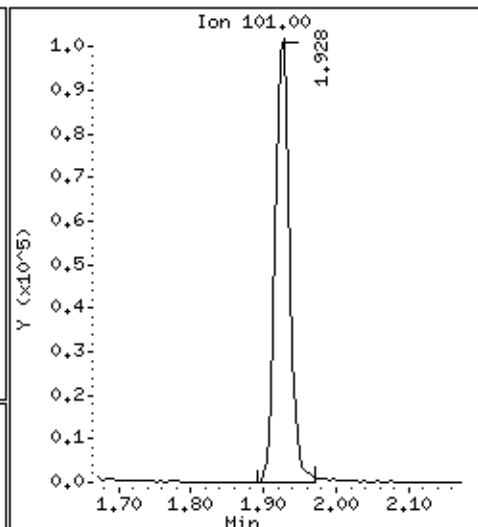
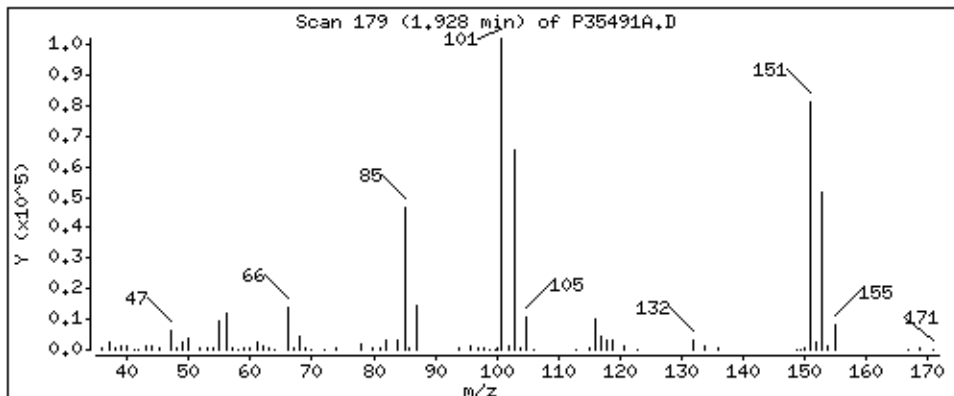
Review Code:



16 1,1,2-Trichlorotrifluoroethane

Concentration: 49,5 ug/L

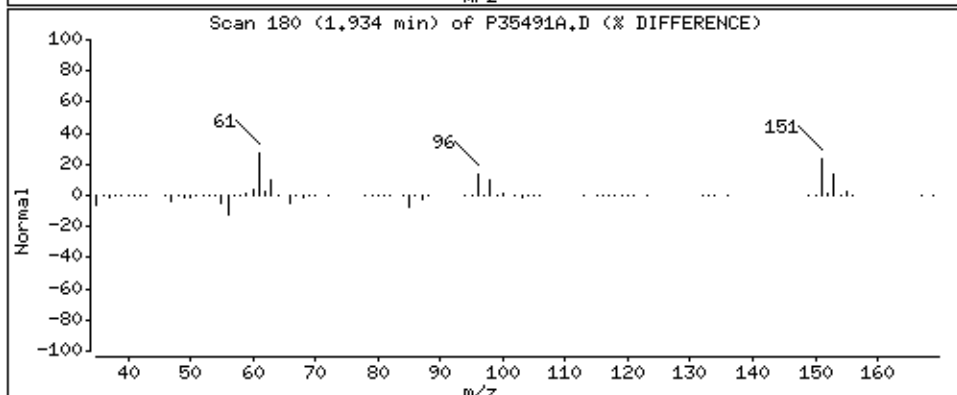
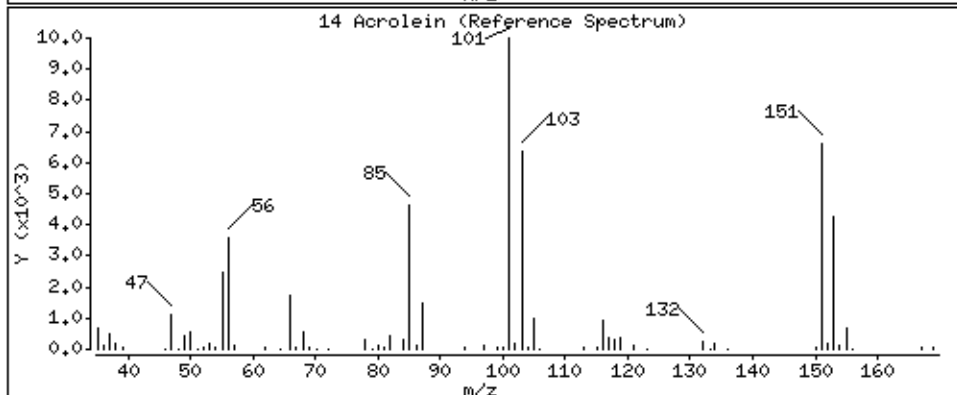
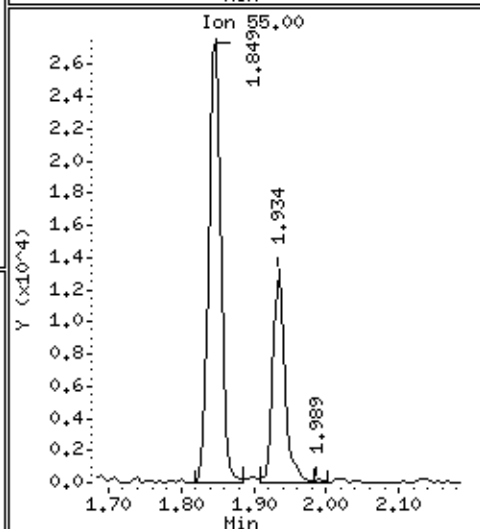
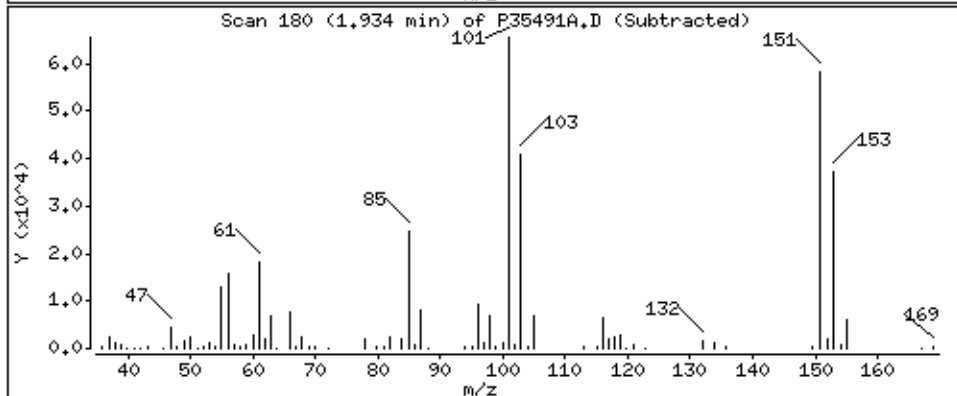
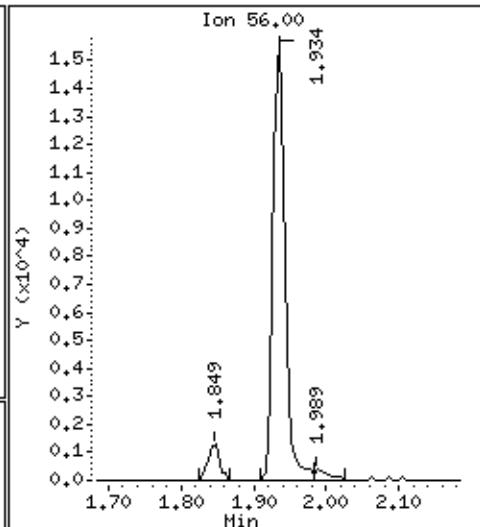
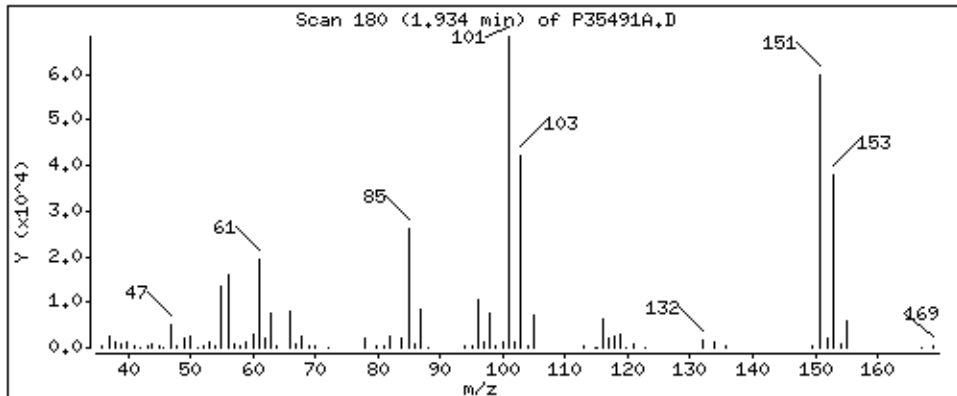
Review Code:



14 Acrolein

Concentration: 55,3 ug/L

Review Code:

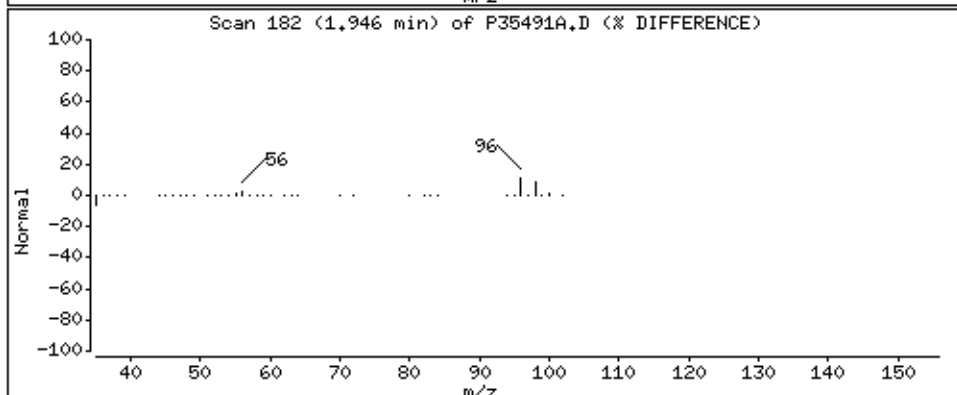
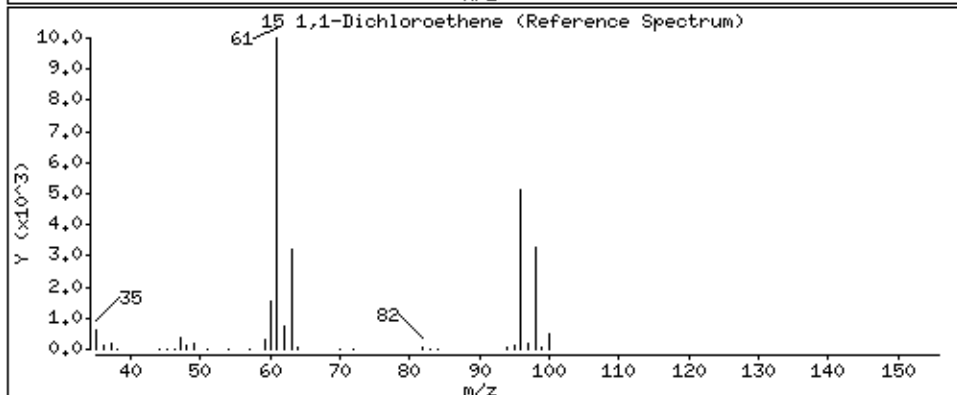
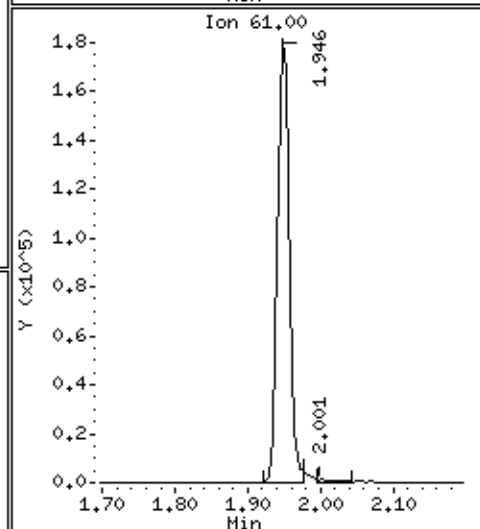
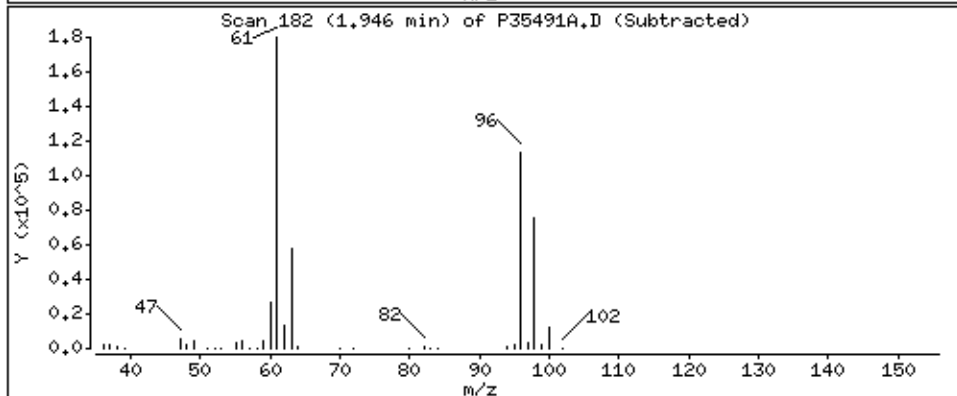
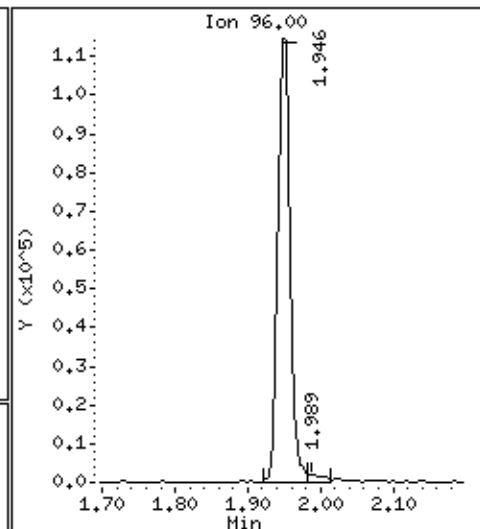
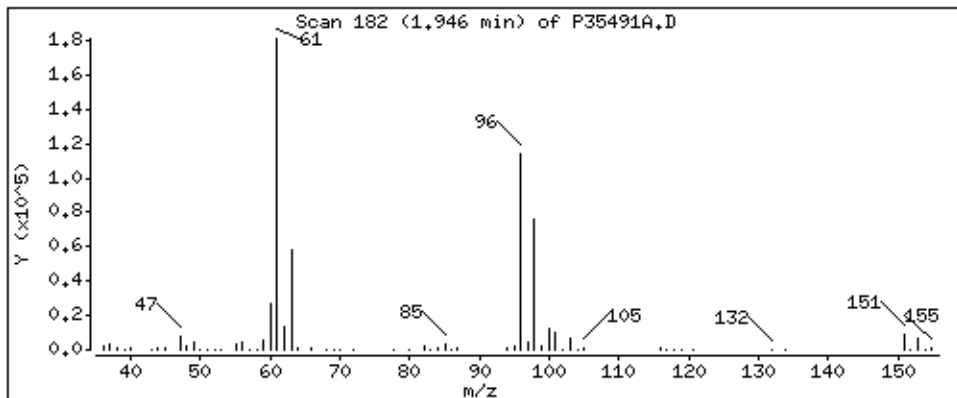




15 1,1-Dichloroethene

Concentration: 54.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

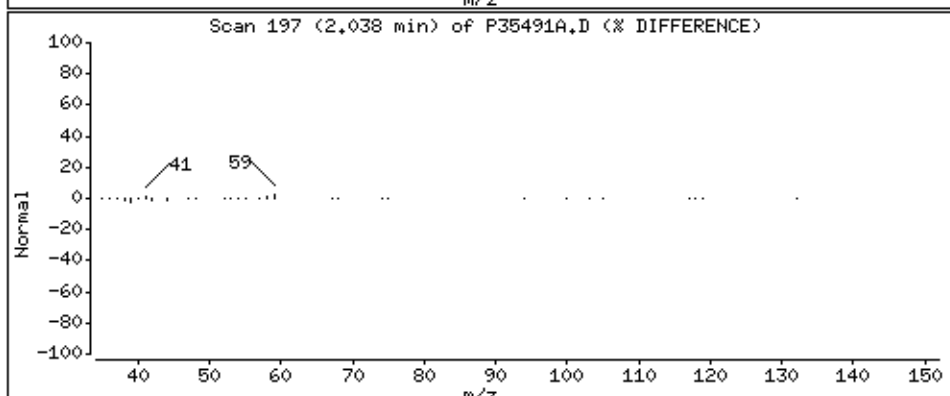
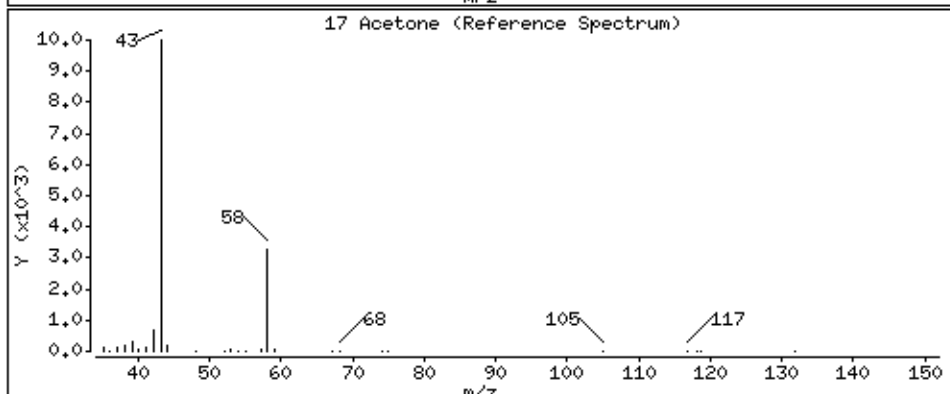
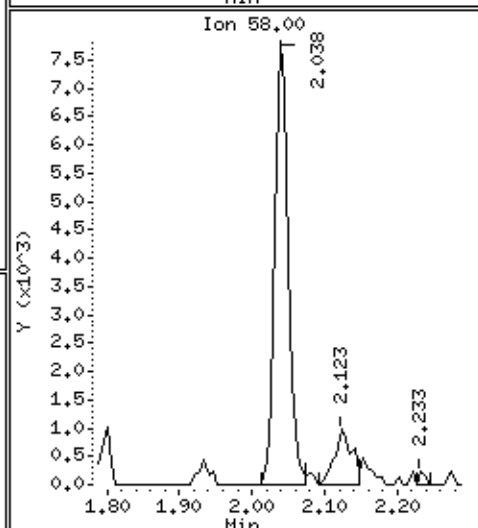
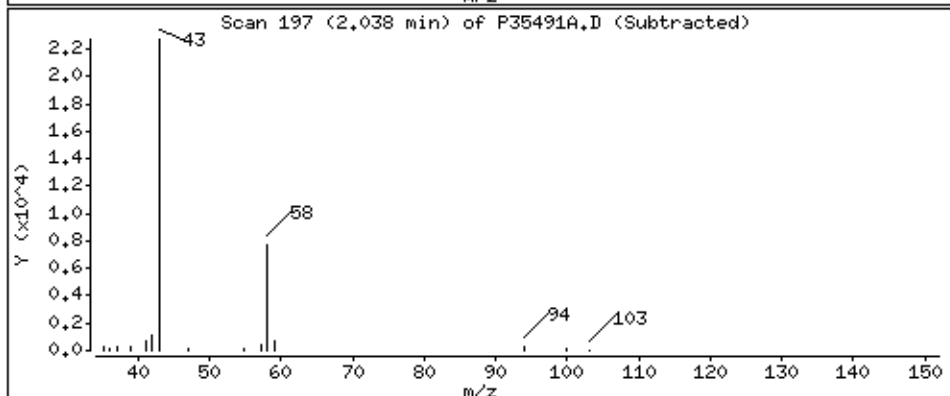
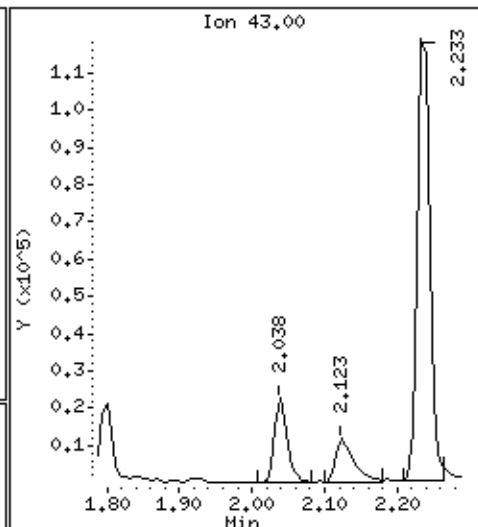
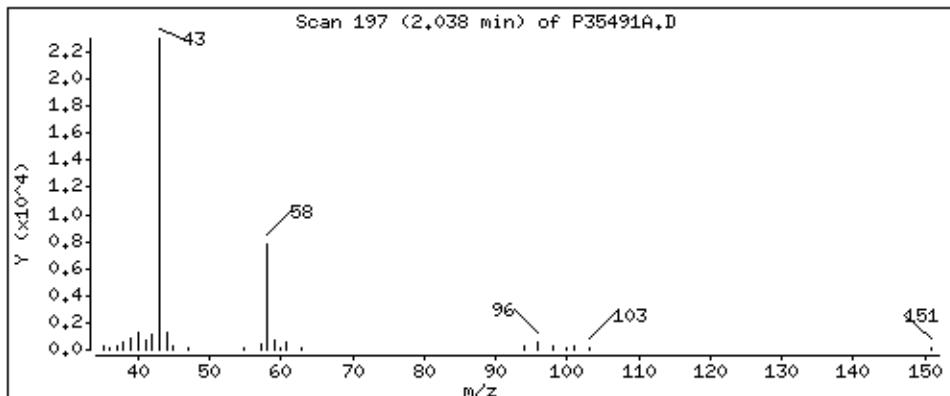
Column phase: RTX-624

Column diameter: 0,18

17 Acetone

Concentration: 30,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

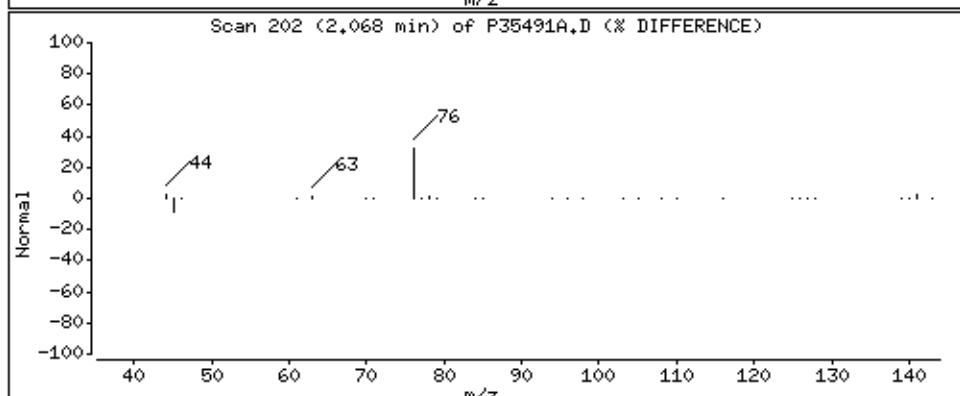
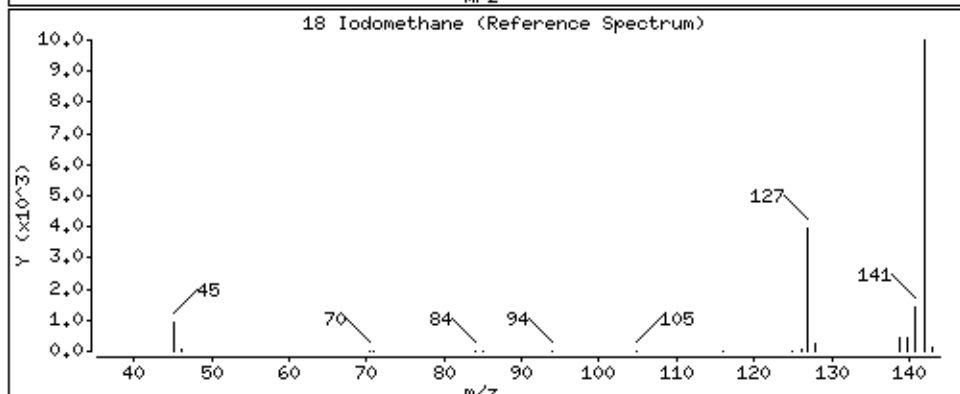
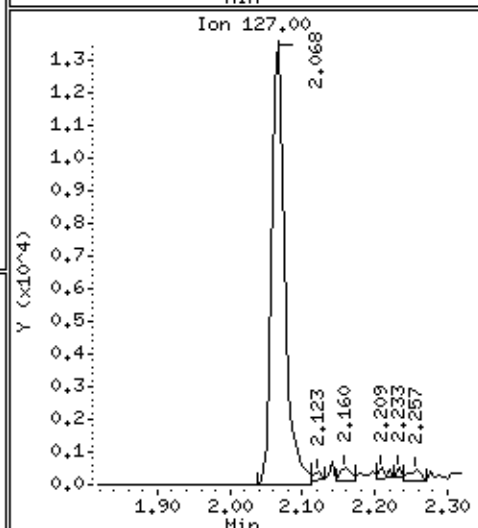
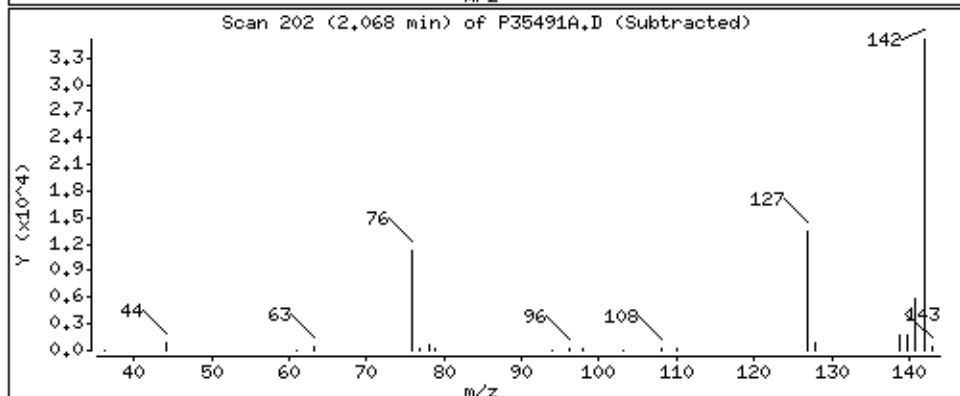
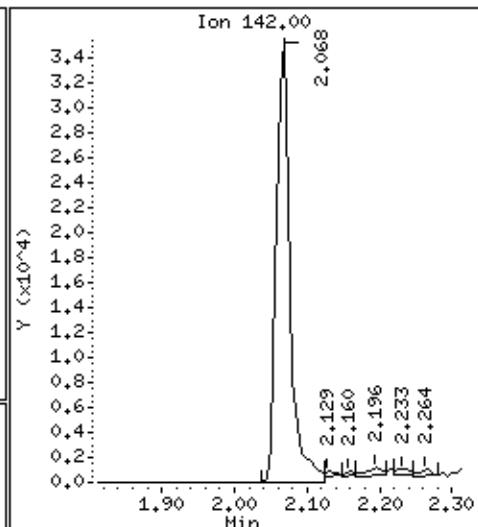
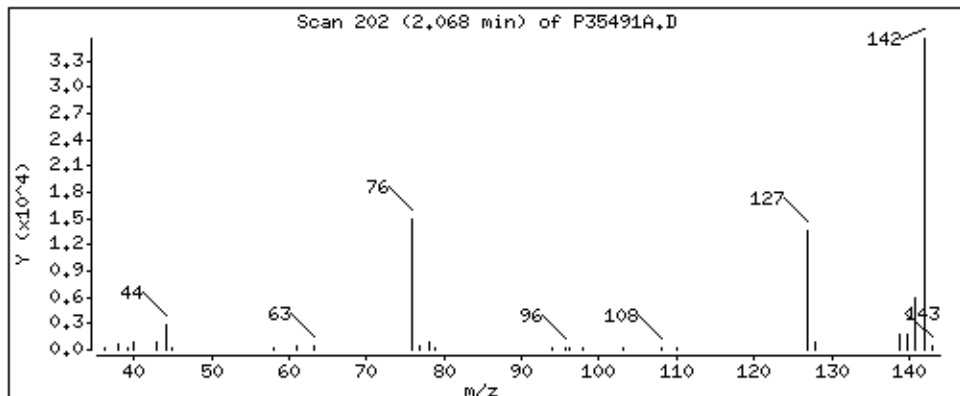
Column phase: RTX-624

Column diameter: 0,18

18 Iodomethane

Concentration: 33,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

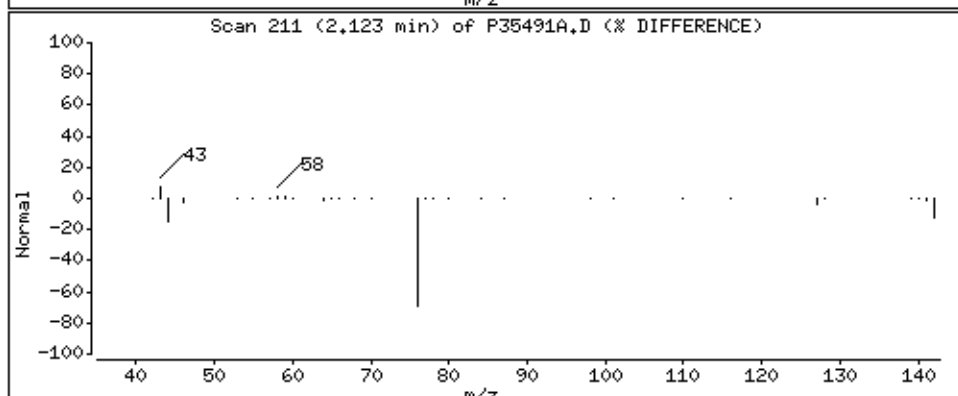
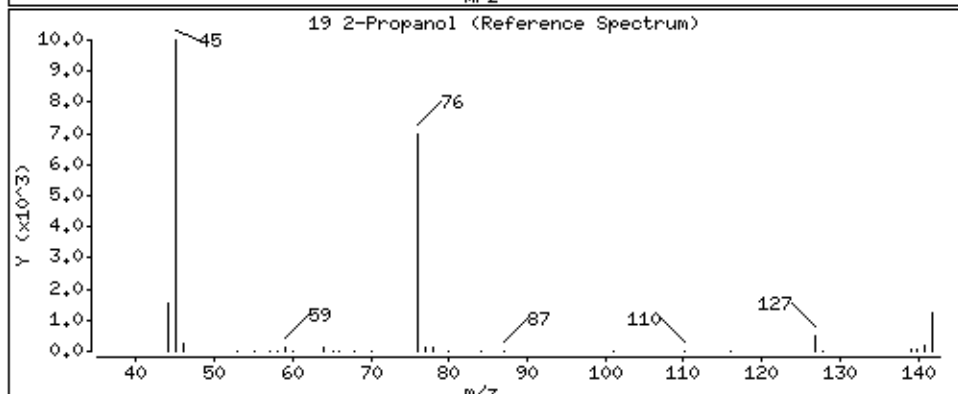
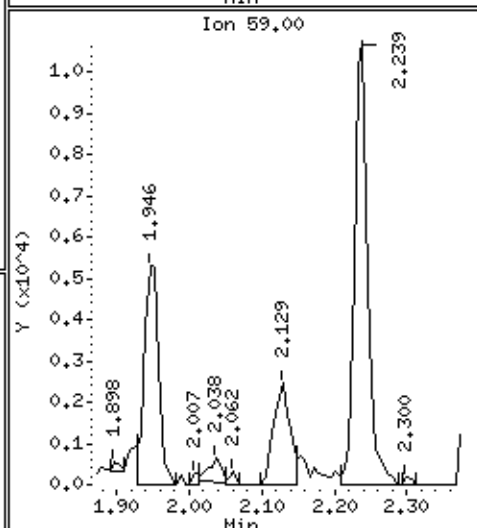
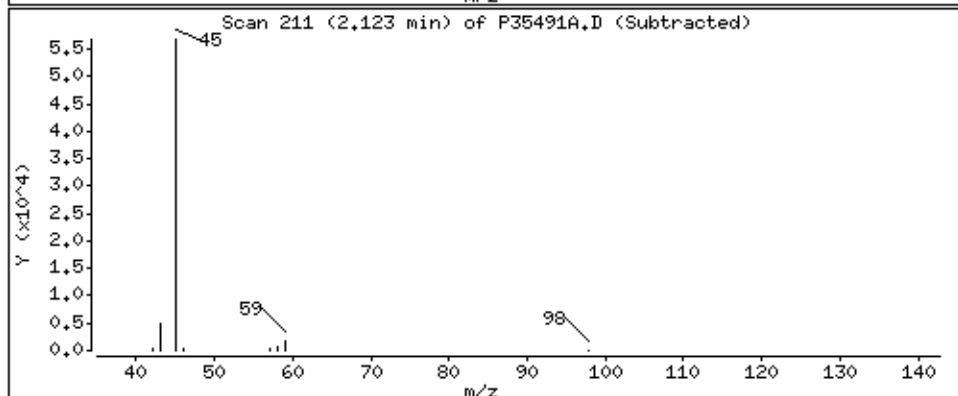
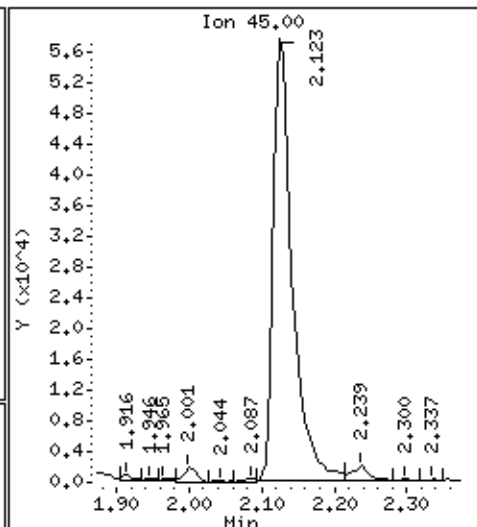
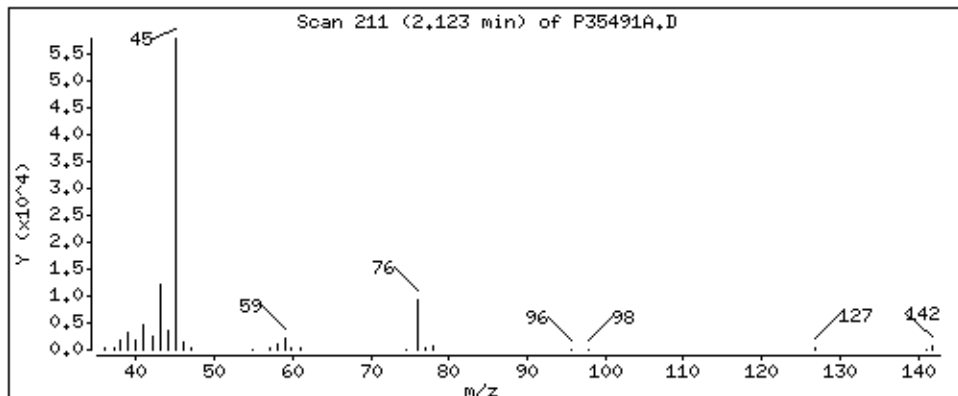
Column phase: RTX-624

Column diameter: 0,18

19 2-Propanol

Concentration: 1160 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

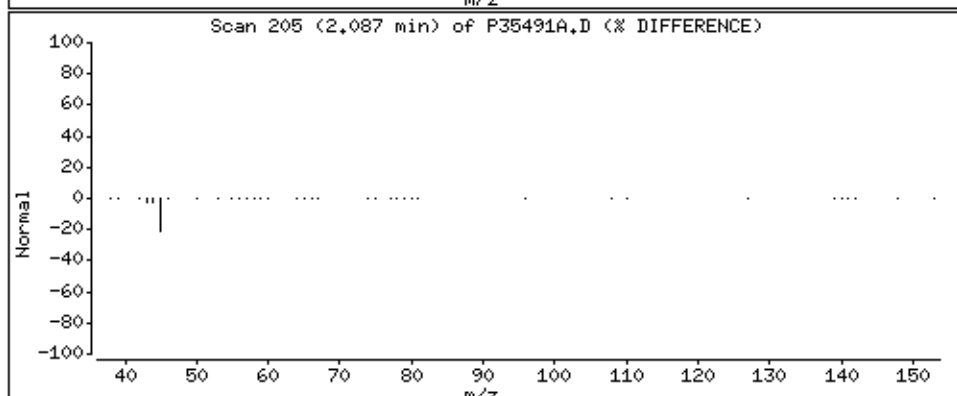
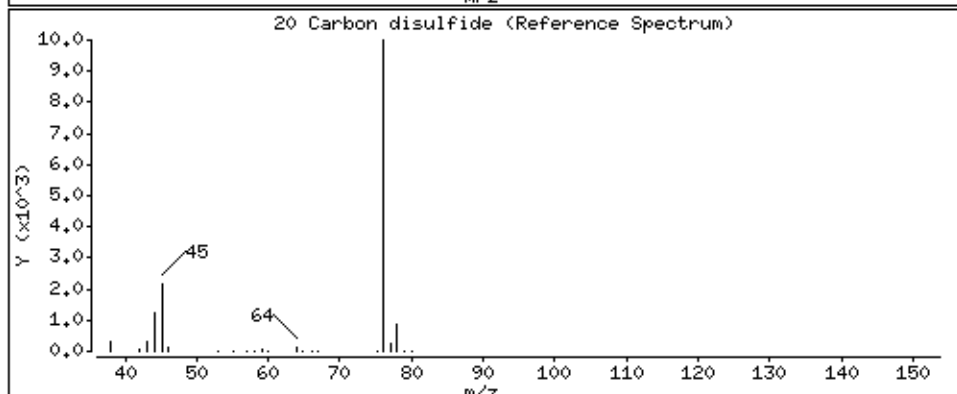
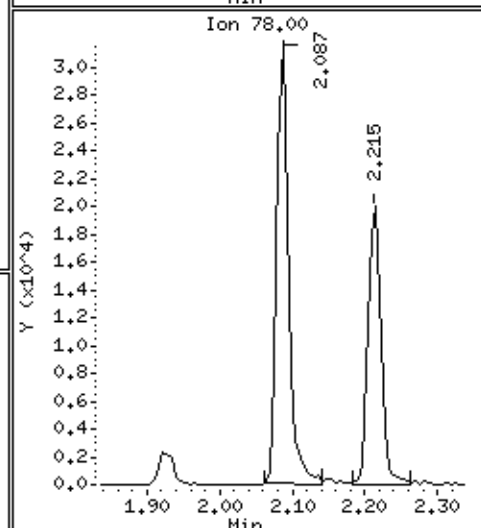
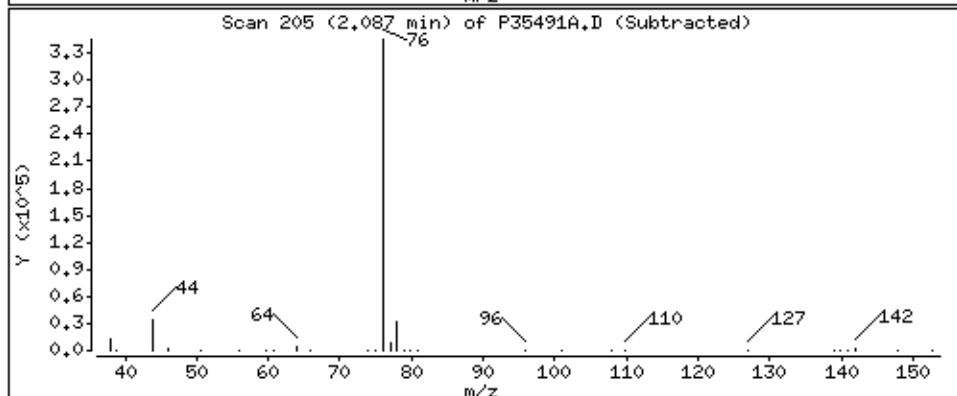
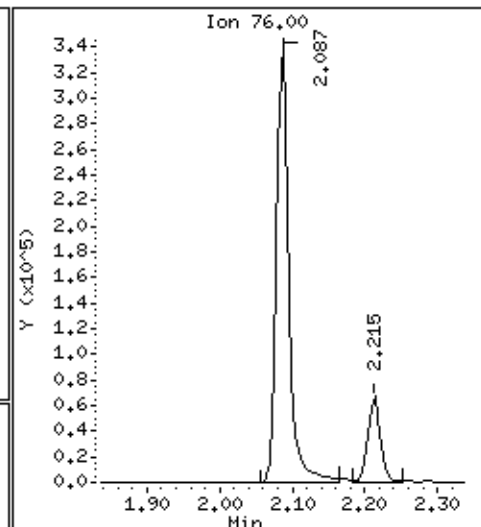
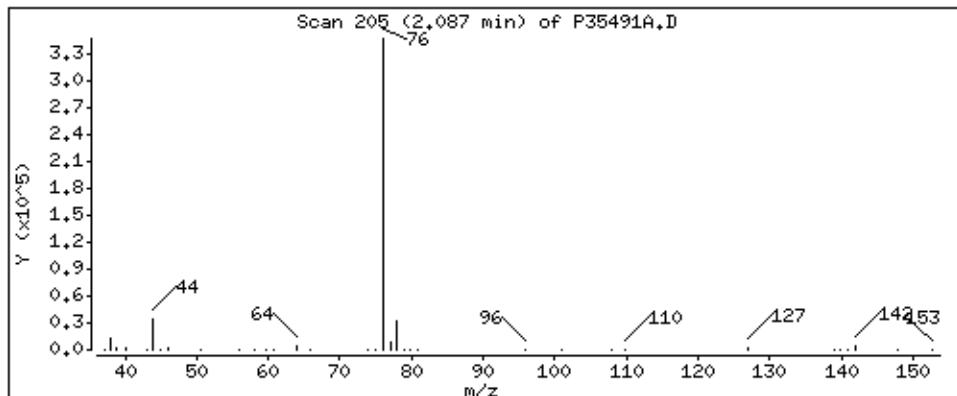
Column phase: RTX-624

Column diameter: 0,18

20 Carbon disulfide

Concentration: 46,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

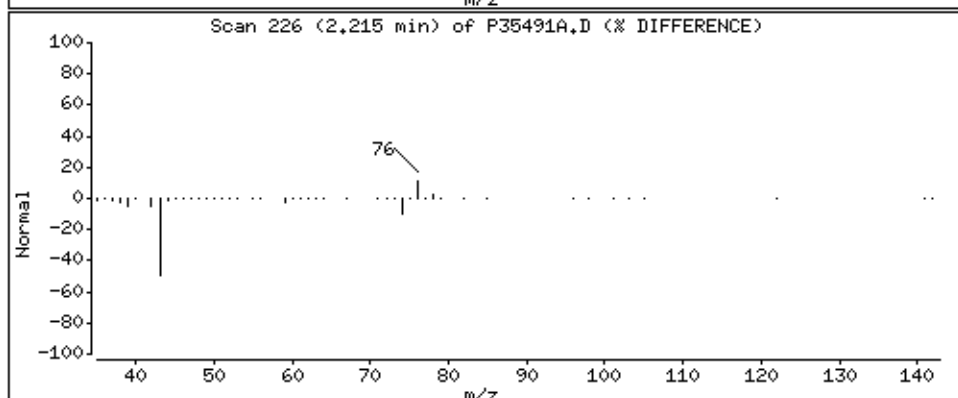
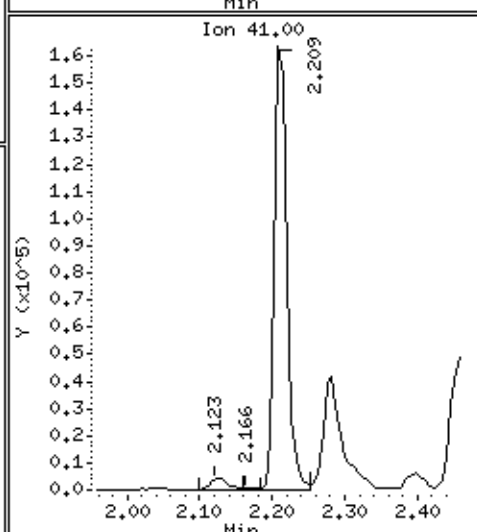
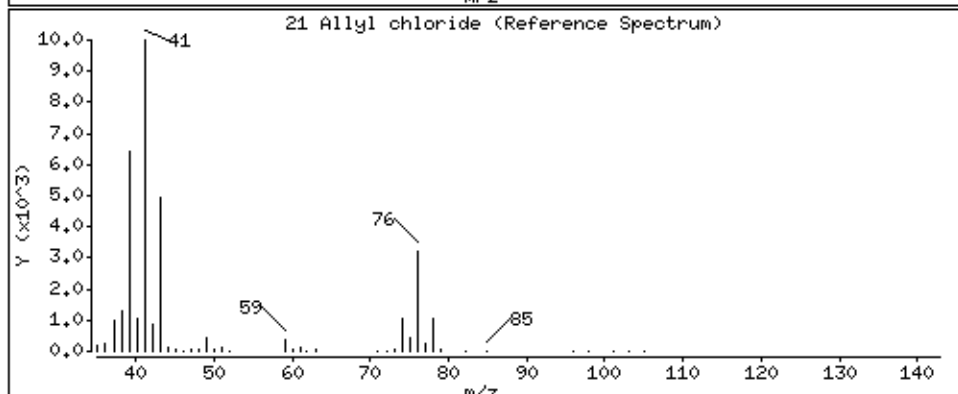
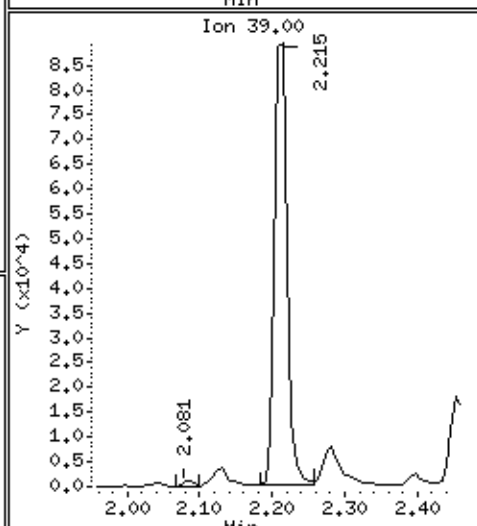
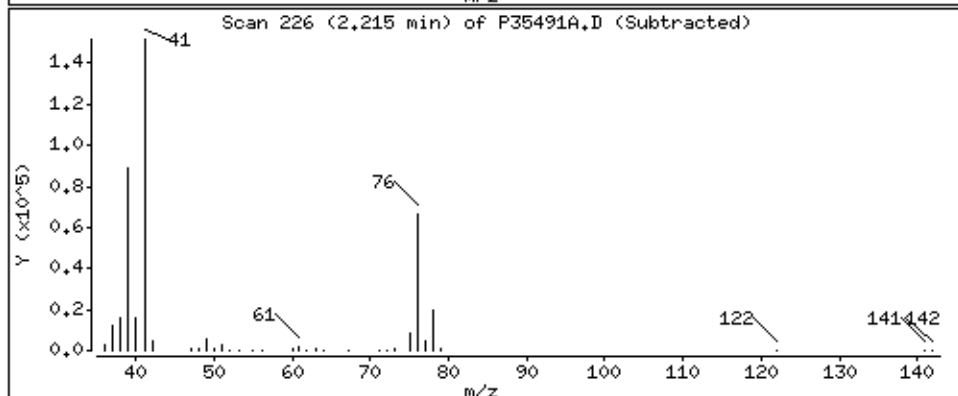
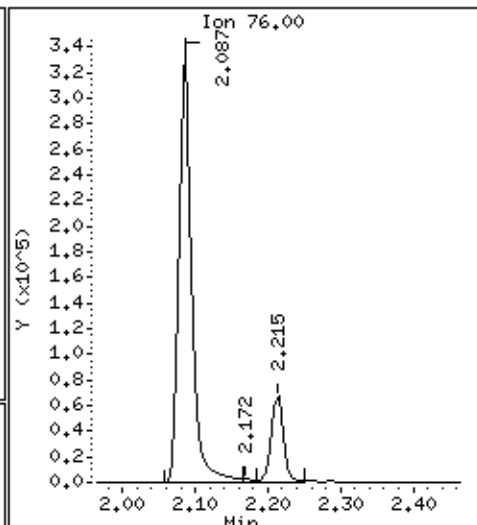
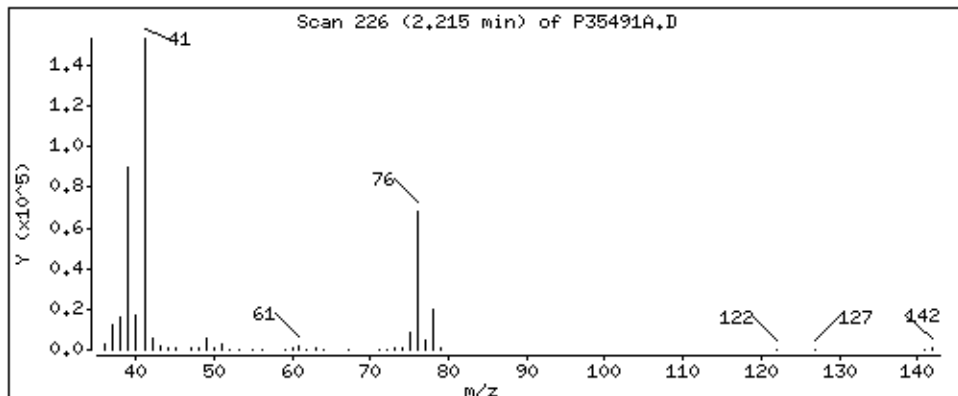
Column phase: RTX-624

Column diameter: 0,18

21 Allyl chloride

Concentration: 45,7 ug/L

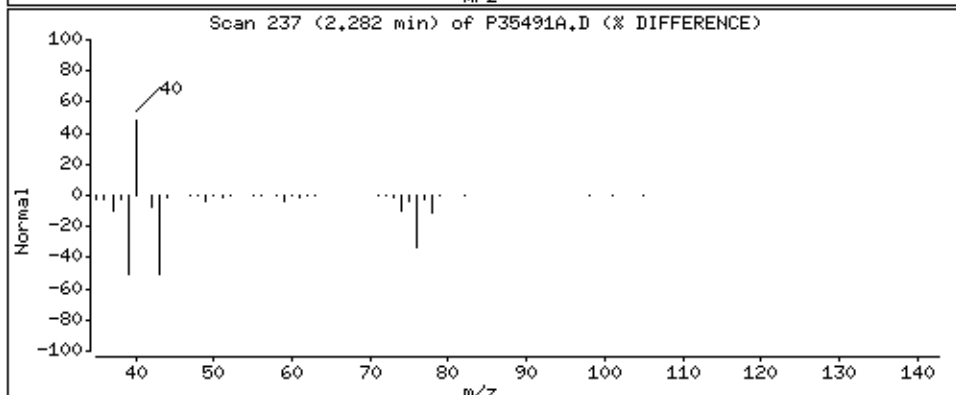
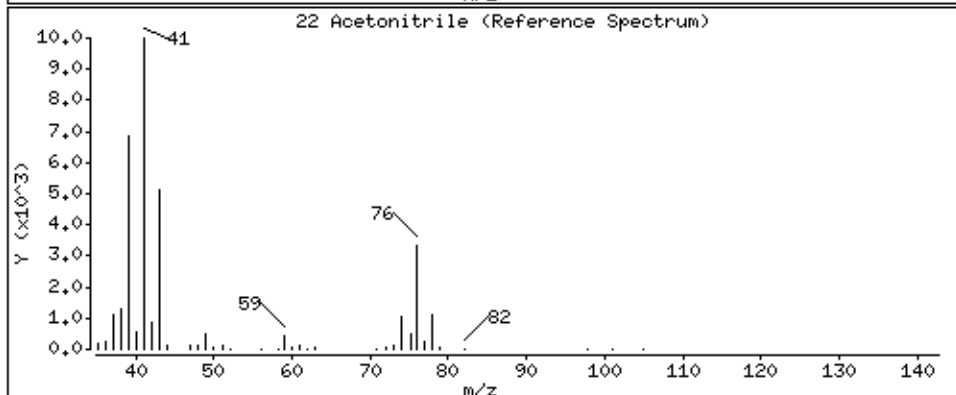
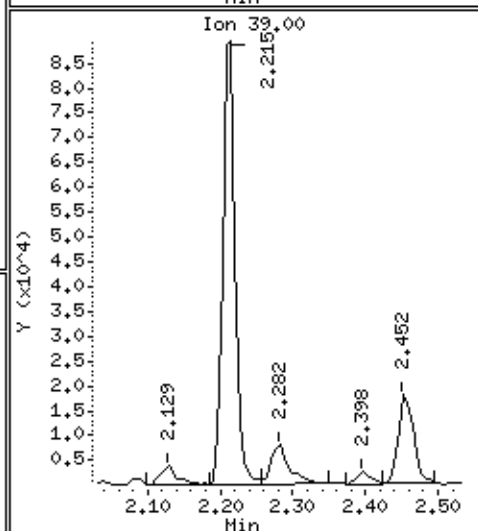
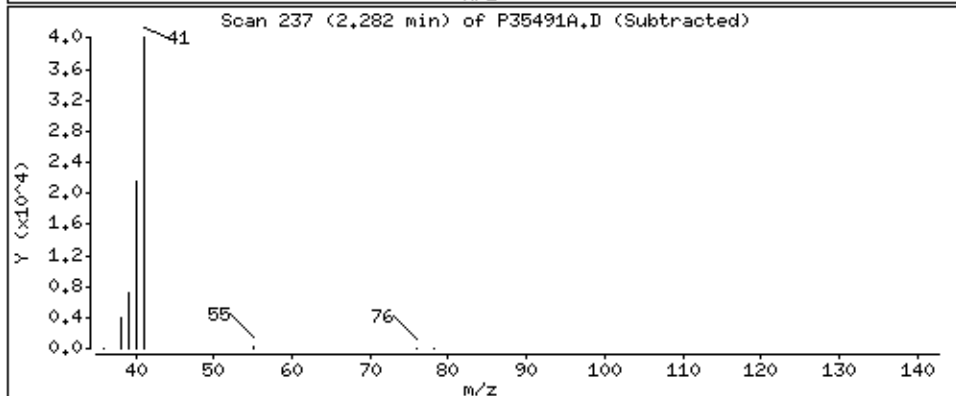
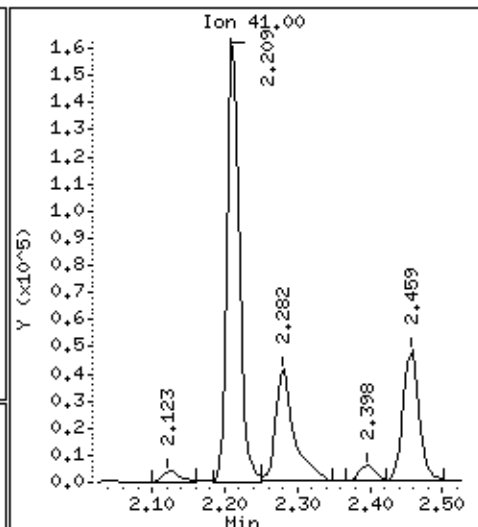
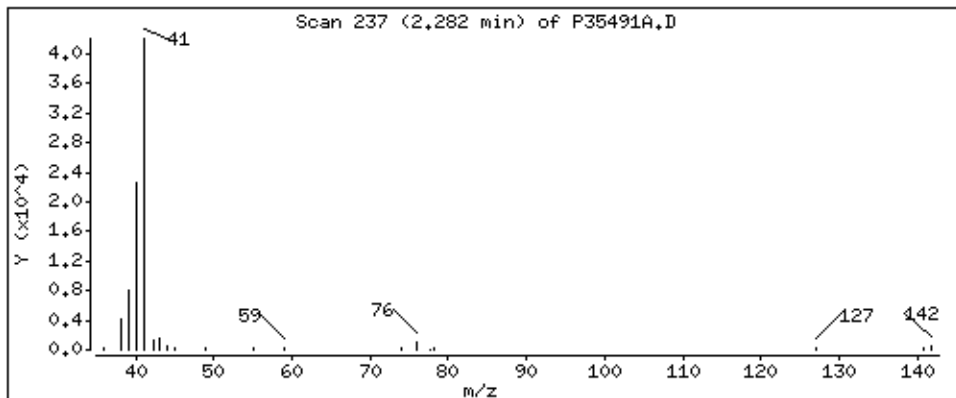
Review Code:



22 Acetonitrile

Concentration: 220 ug/L

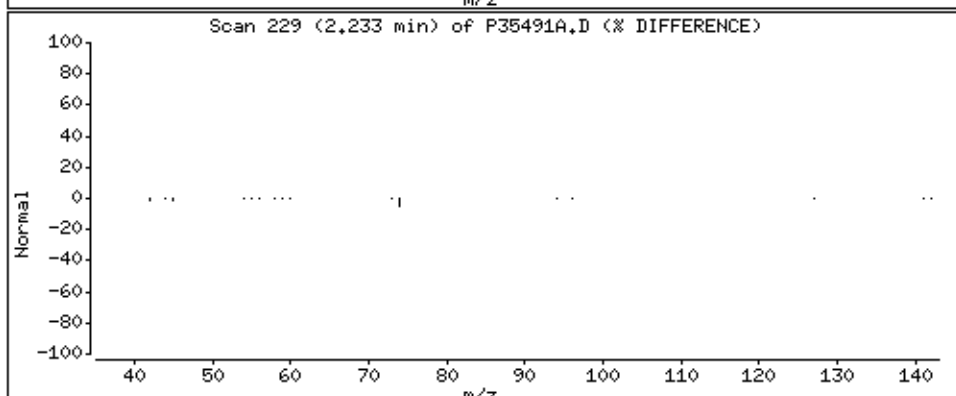
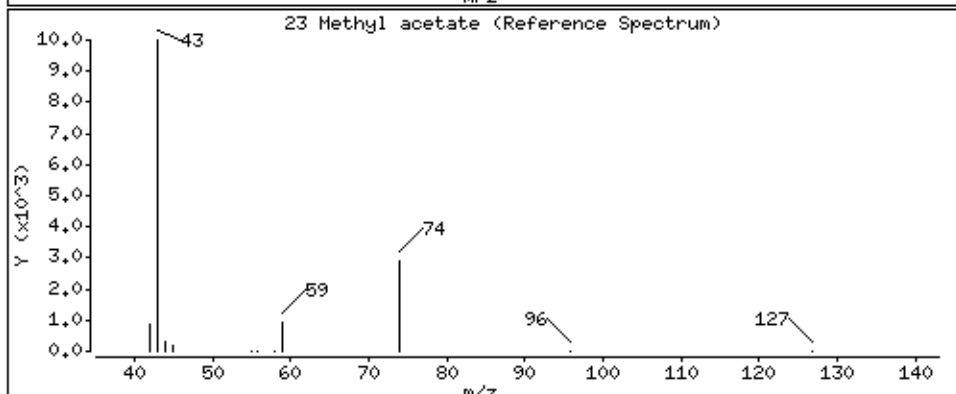
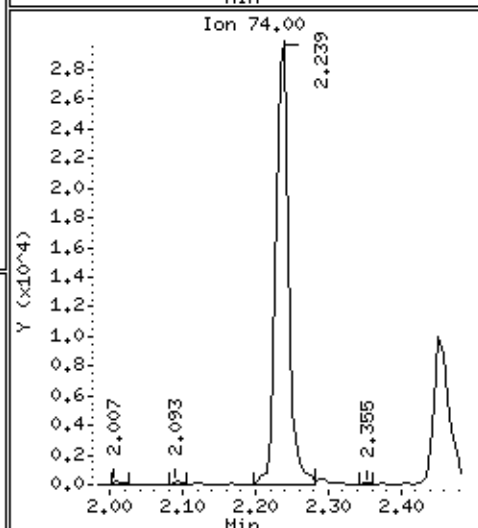
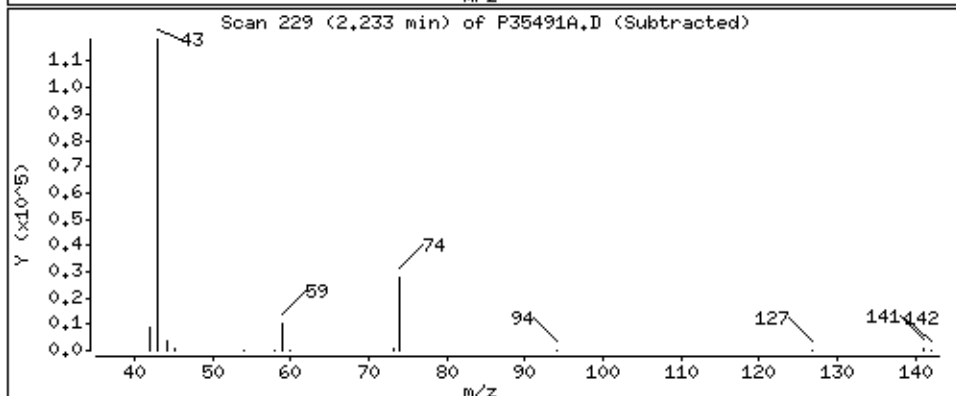
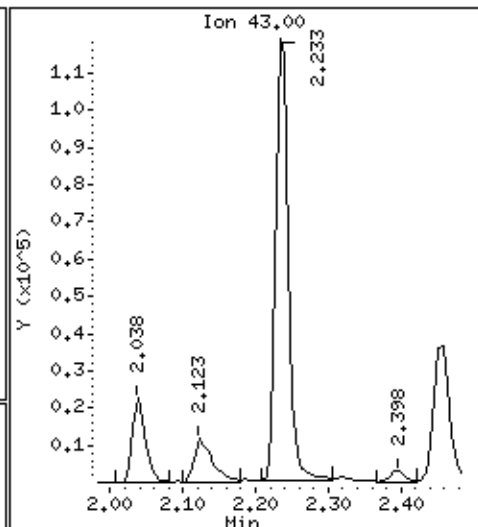
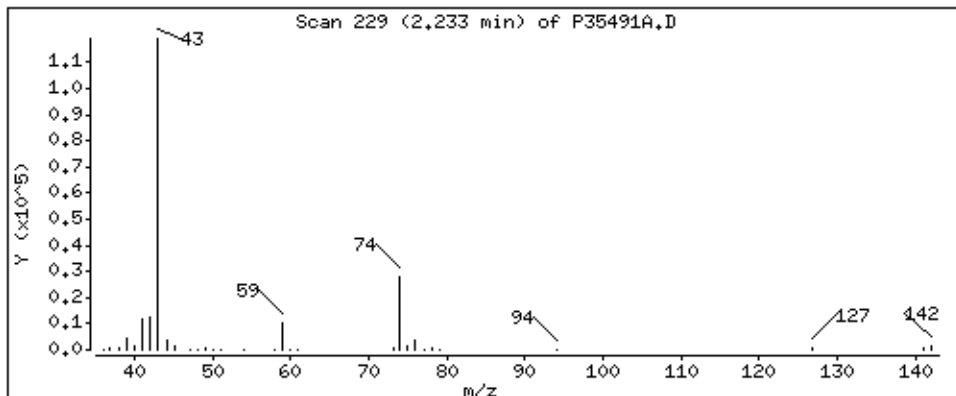
Review Code:



23 Methyl acetate

Concentration: 36,0 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

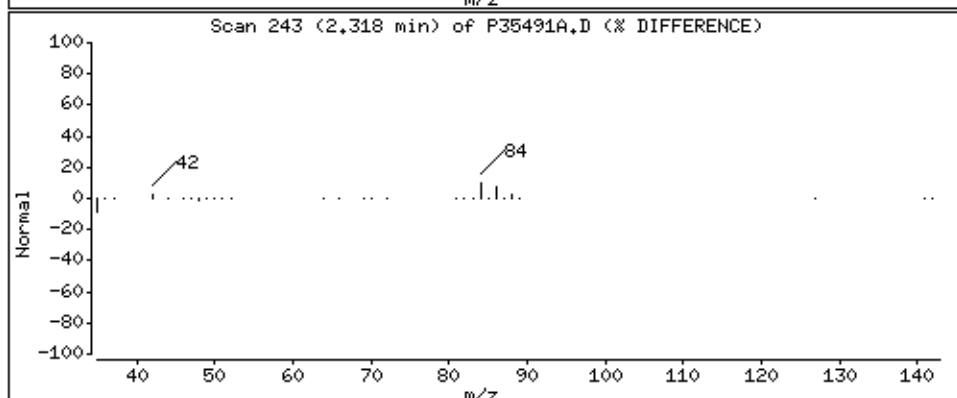
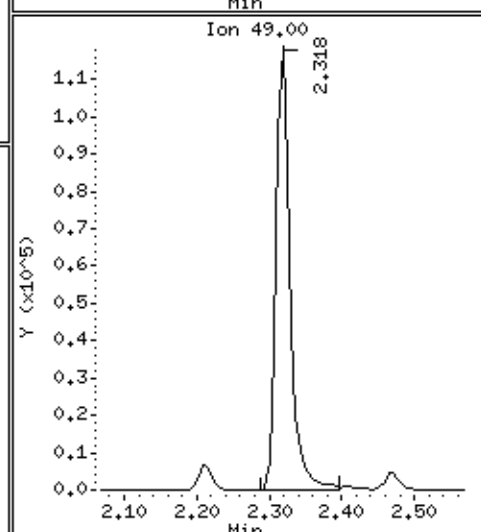
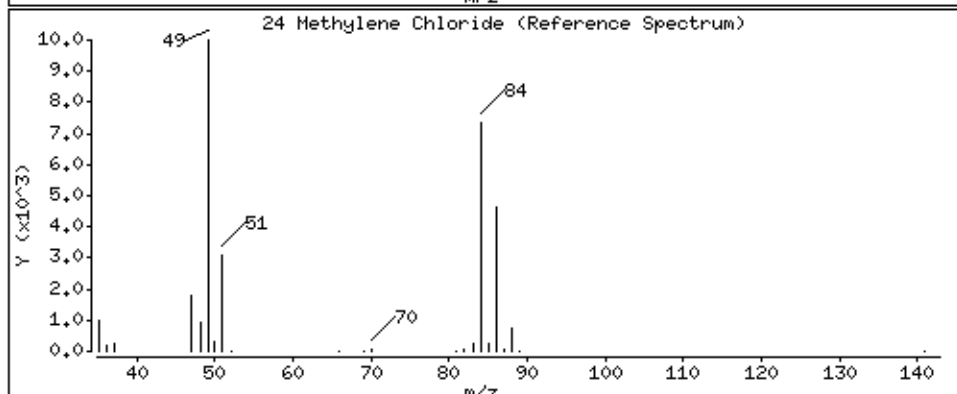
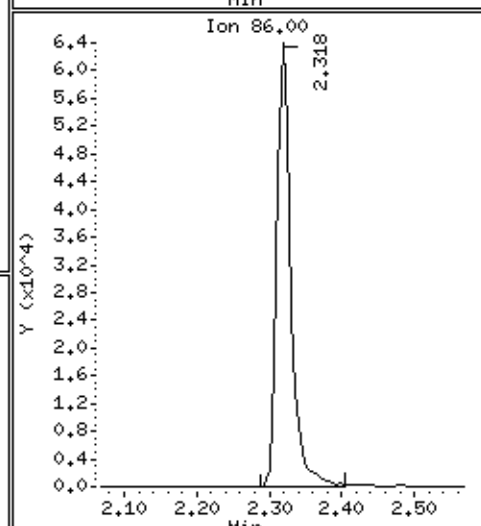
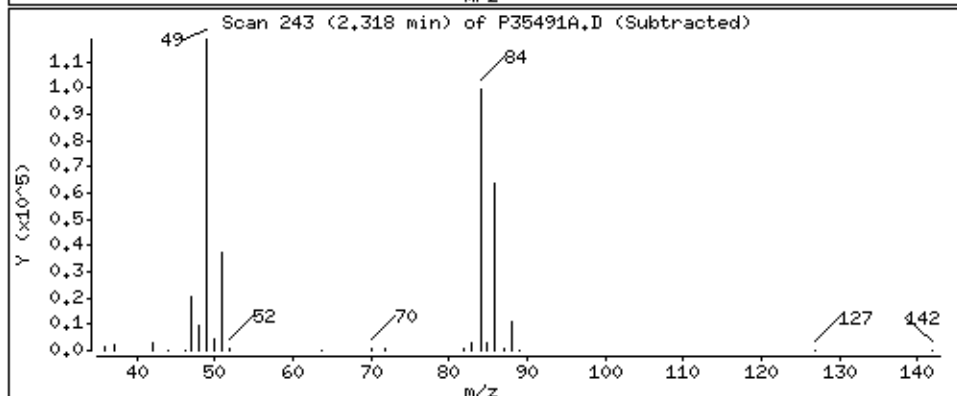
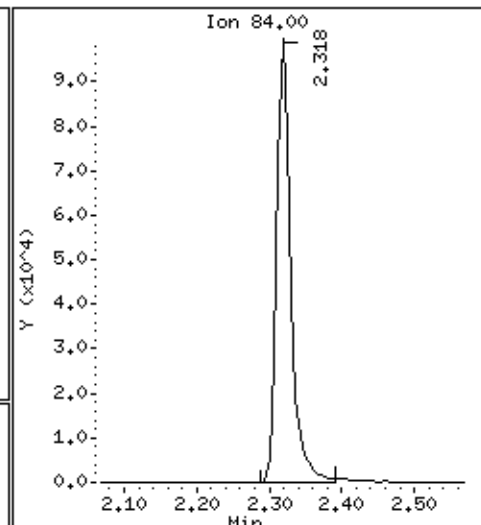
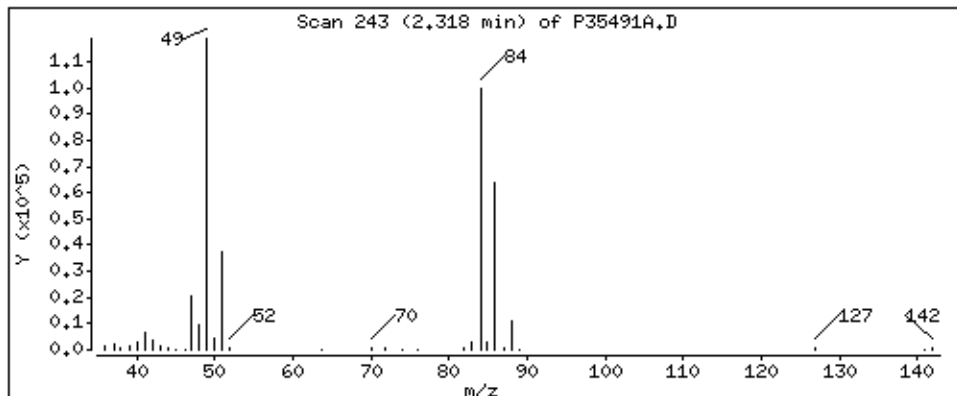
Column phase: RTX-624

Column diameter: 0,18

24 Methylene Chloride

Concentration: 45,1 ug/L

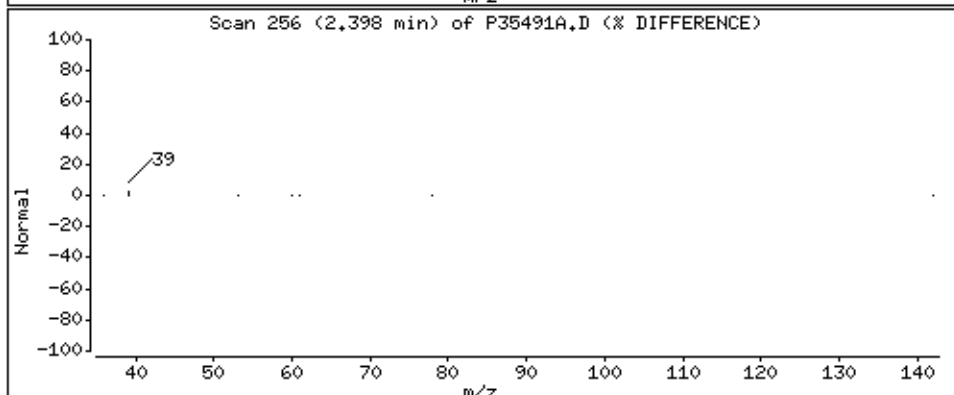
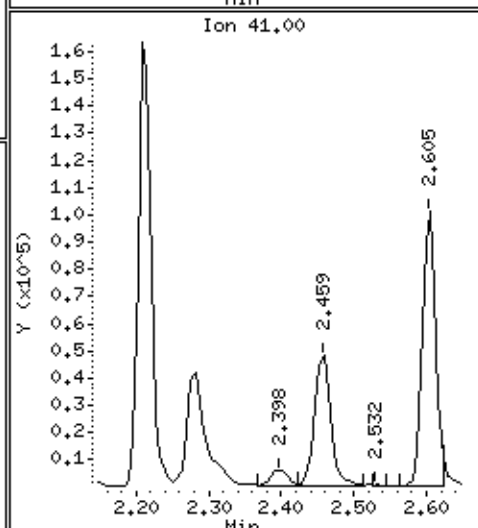
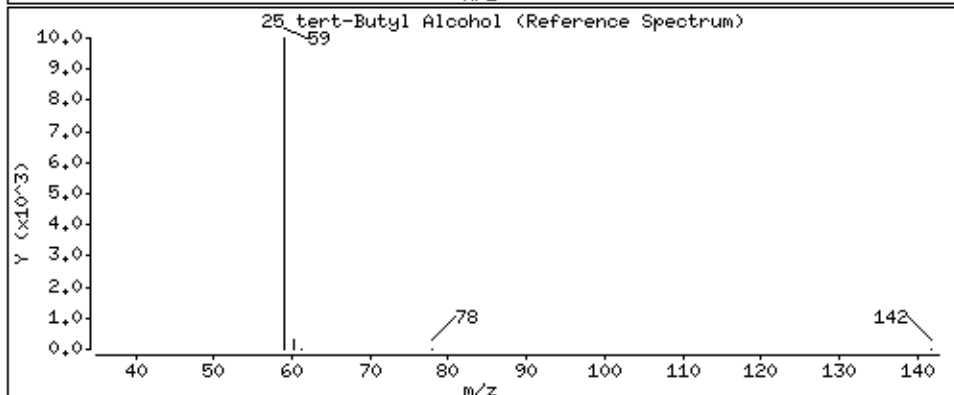
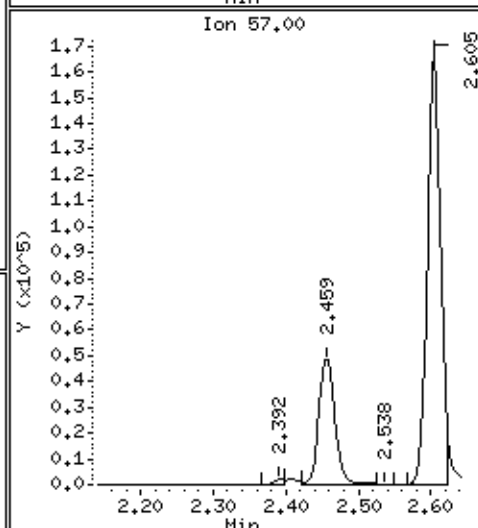
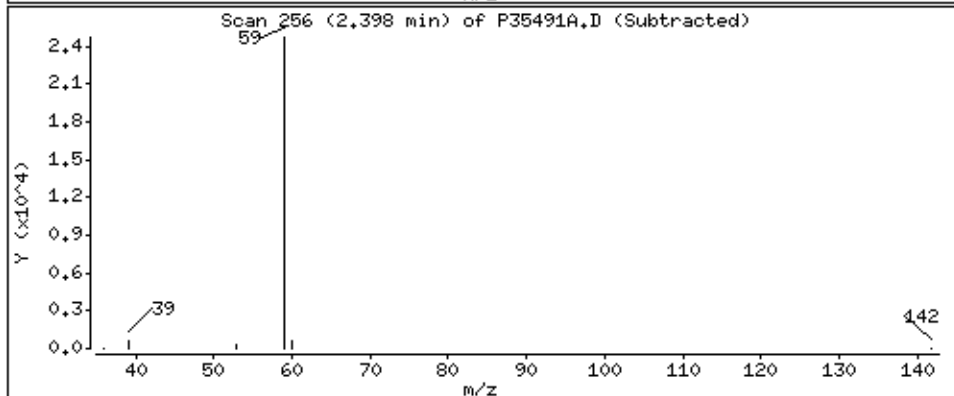
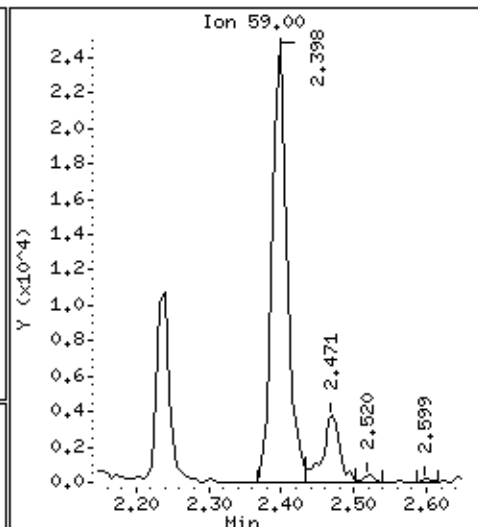
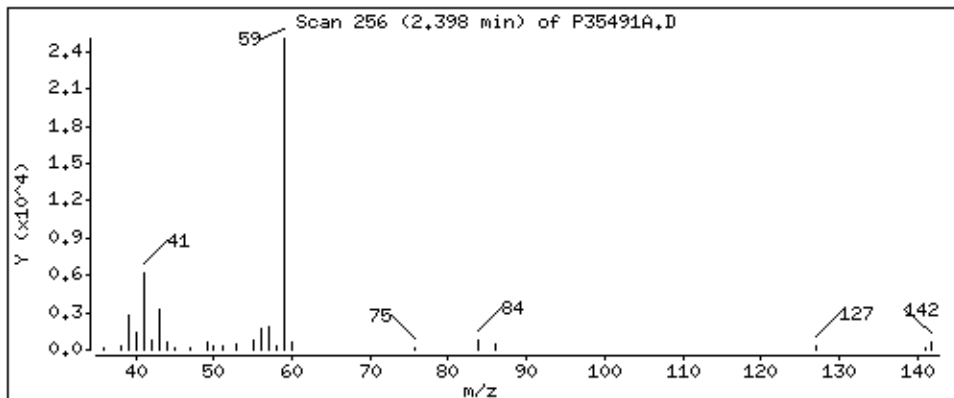
Review Code:



25 tert-Butyl Alcohol

Concentration: 241 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

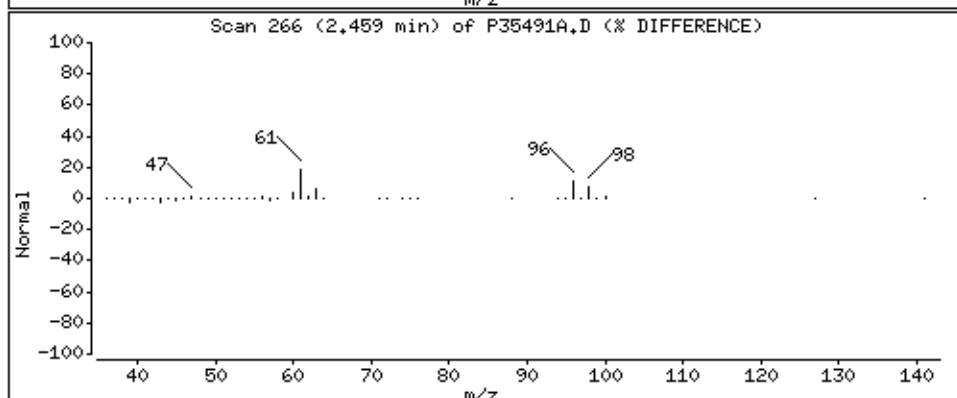
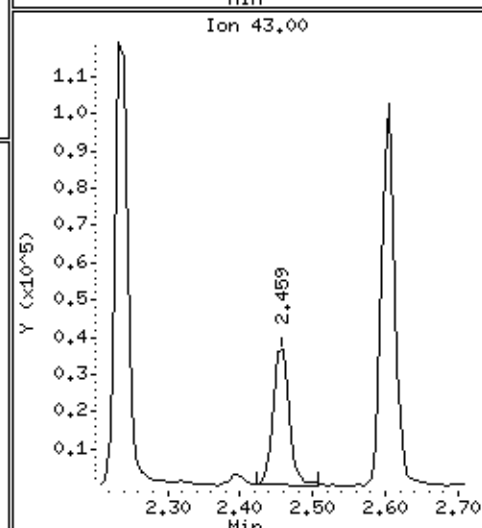
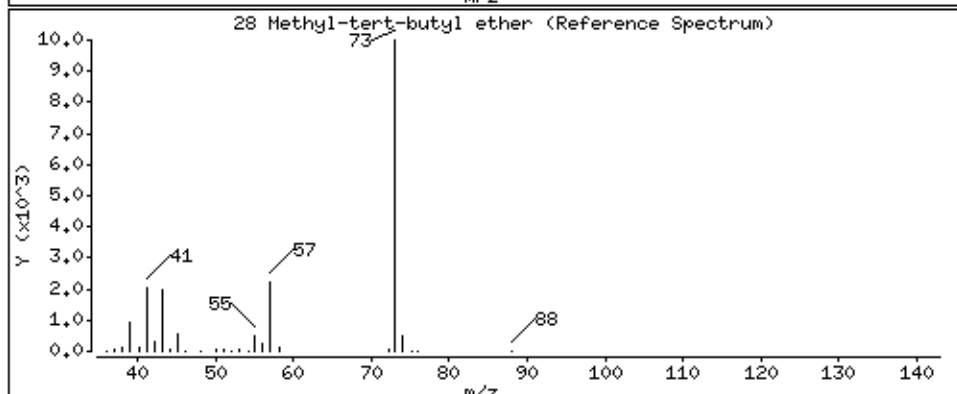
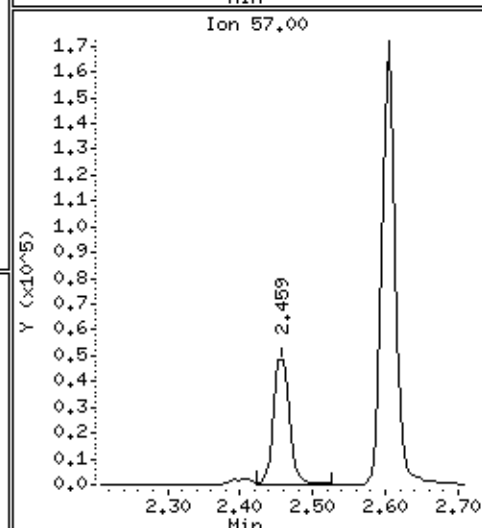
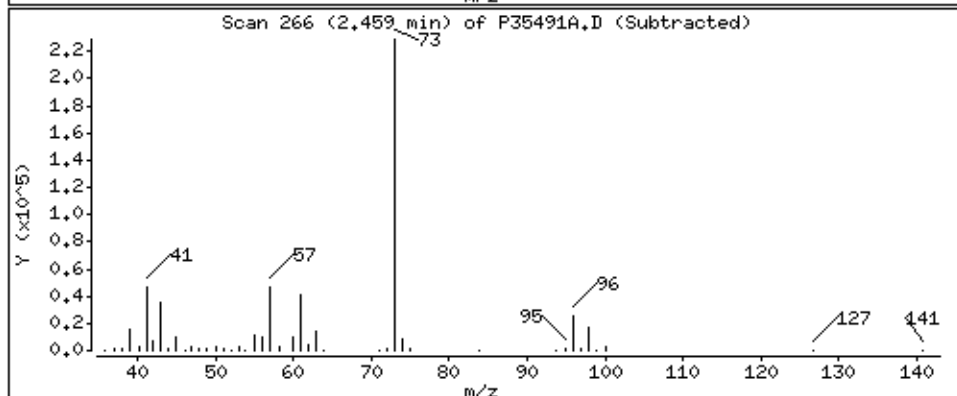
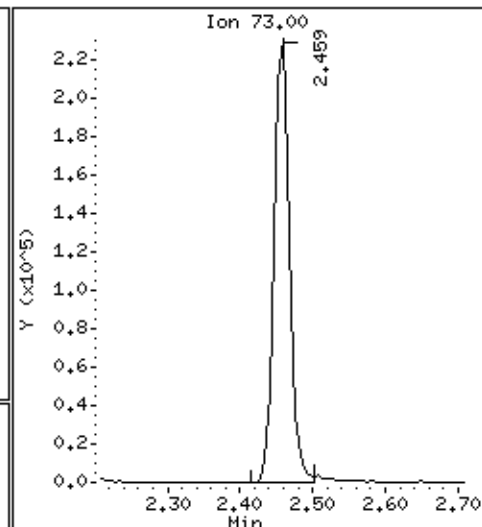
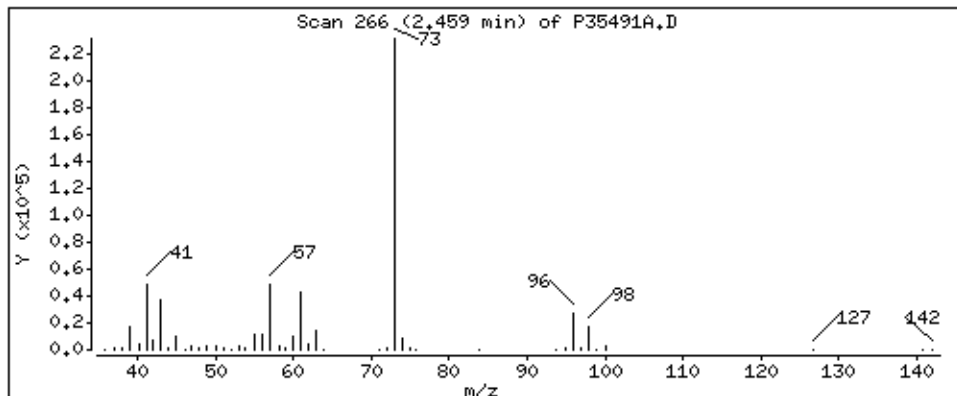
Column phase: RTX-624

Column diameter: 0.18

28 Methyl-tert-butyl ether

Concentration: 42.4 ug/L

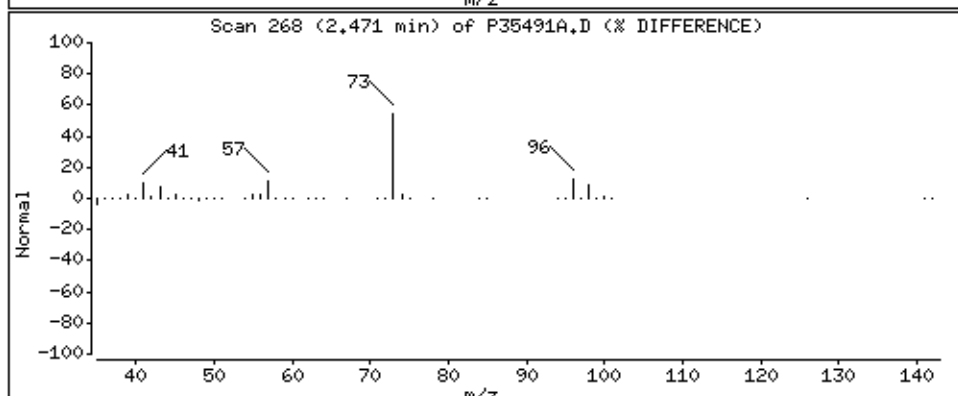
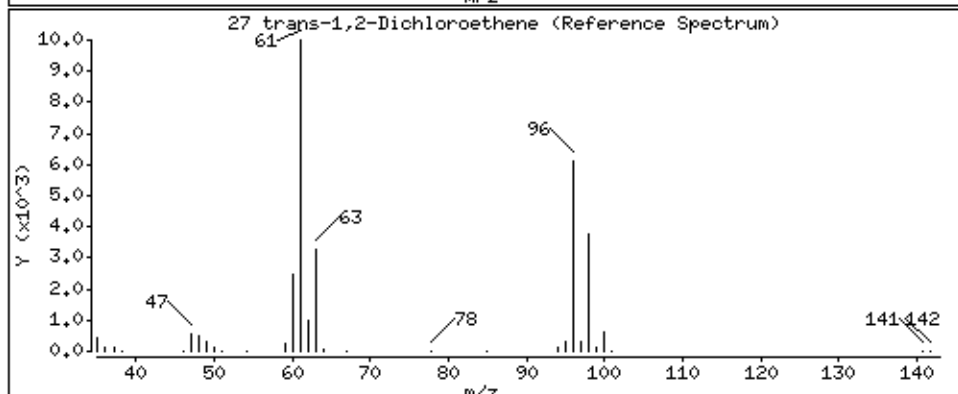
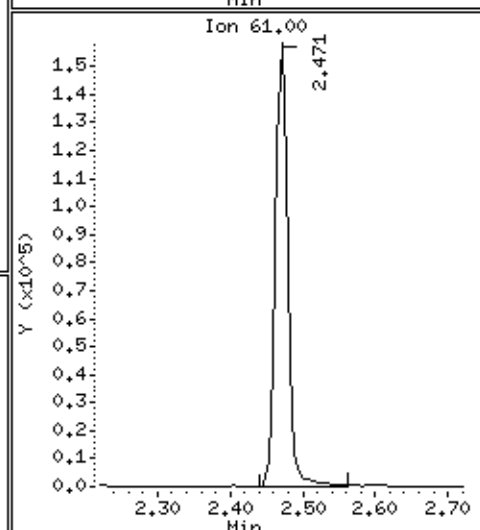
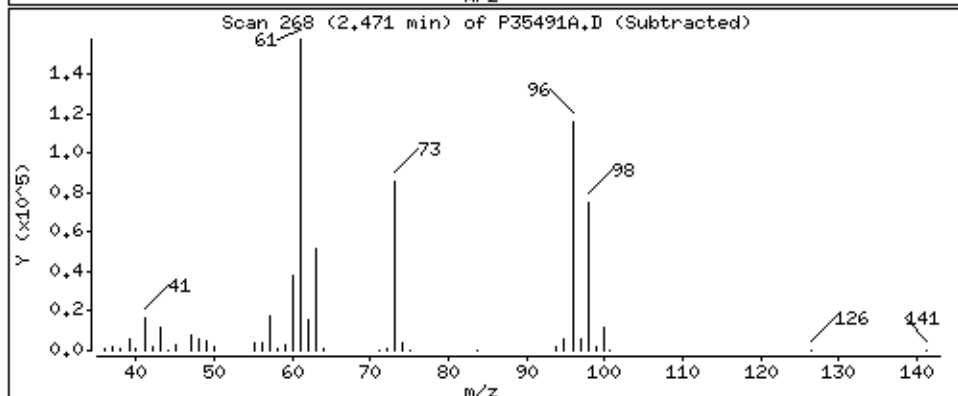
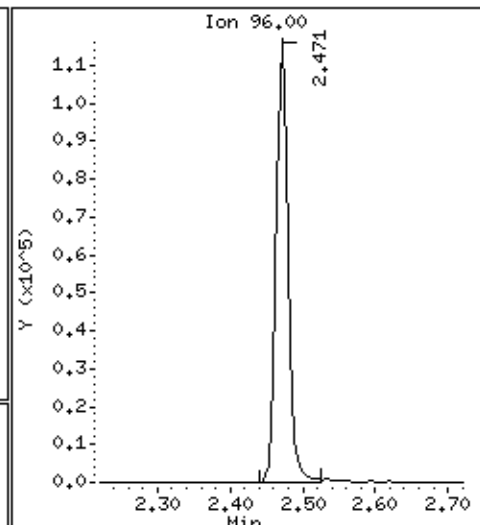
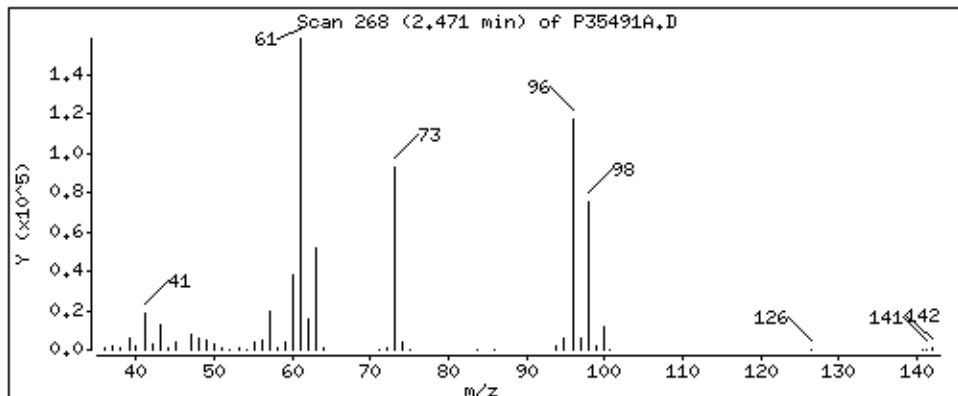
Review Code:



27 trans-1,2-Dichloroethene

Concentration: 46,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

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Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1,25

Purge Volume: 5.0

Operator: KGG

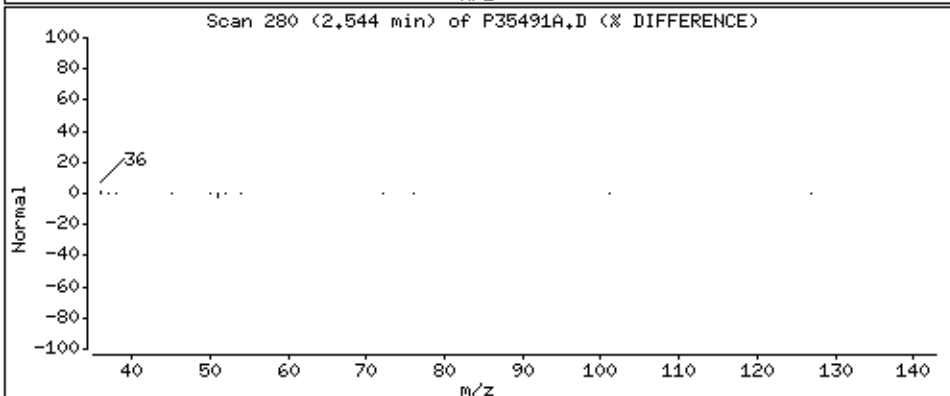
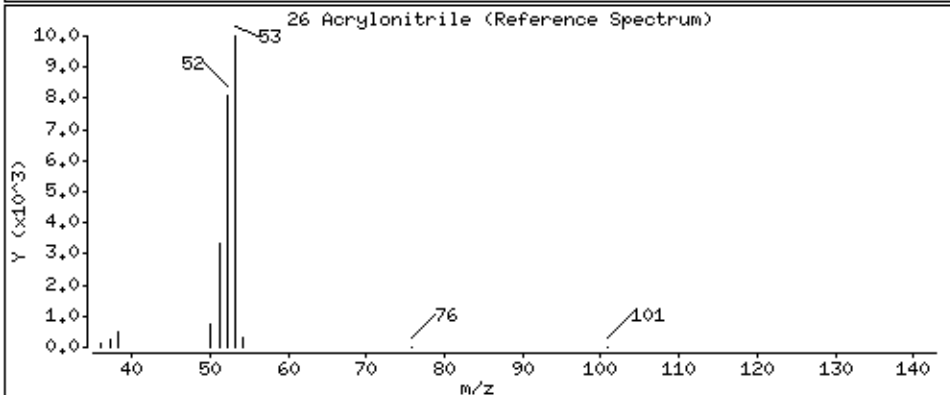
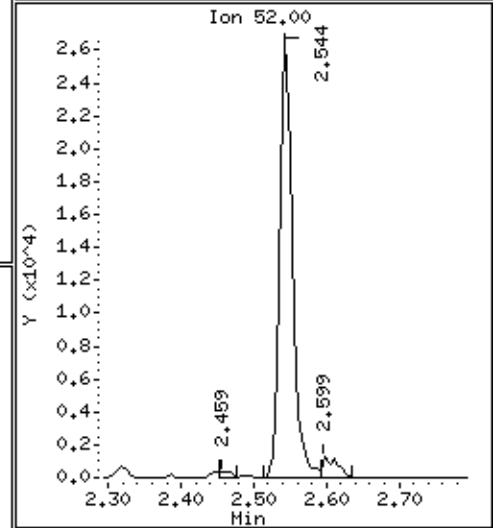
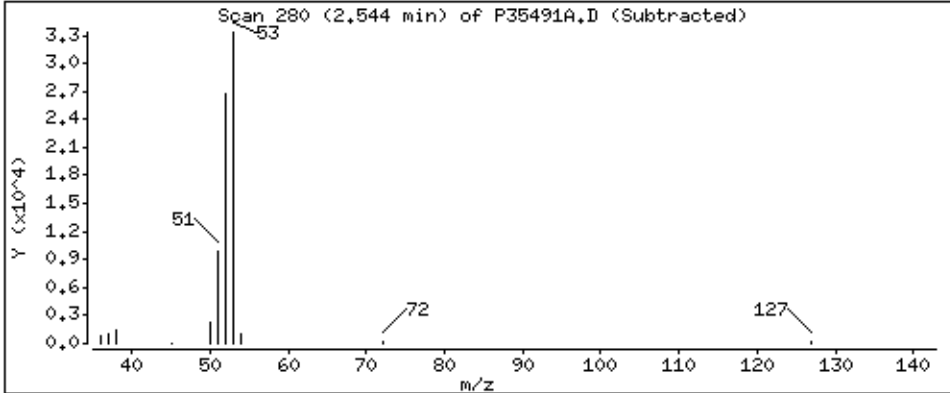
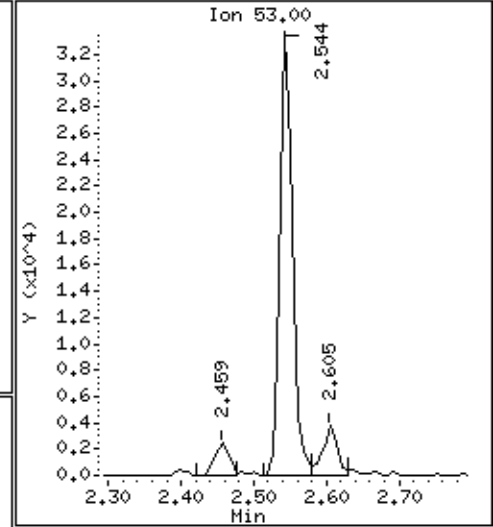
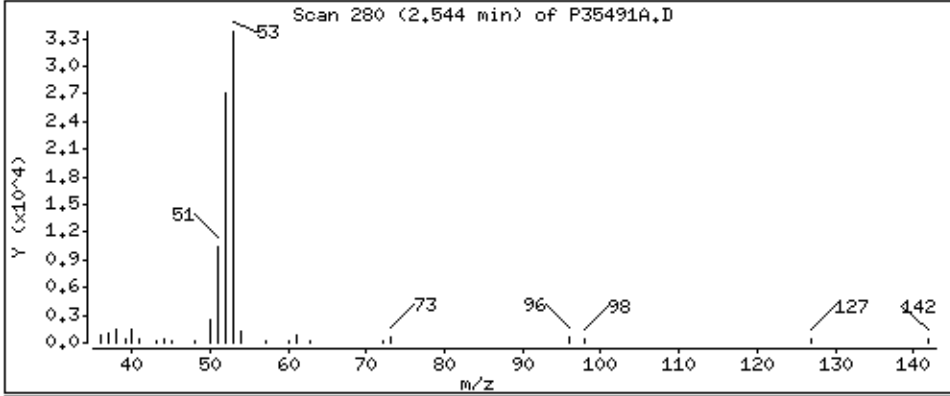
Column phase: RTX-624

Column diameter: 0,18

26 Acrylonitrile

Concentration: 44,6 ug/L

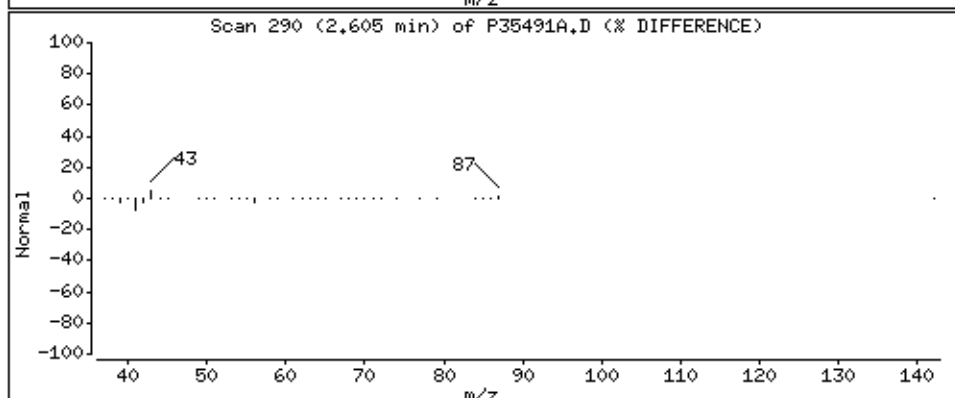
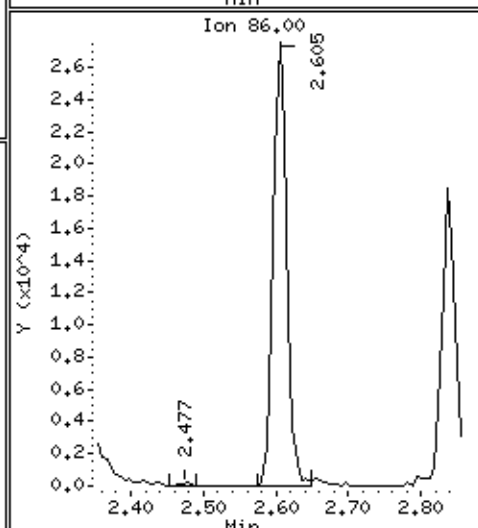
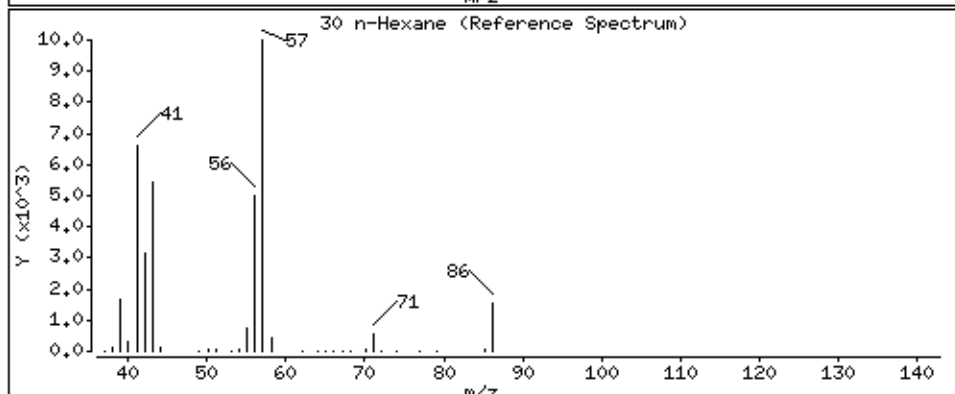
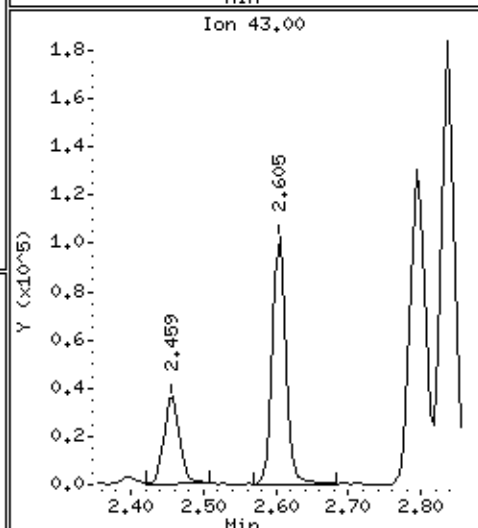
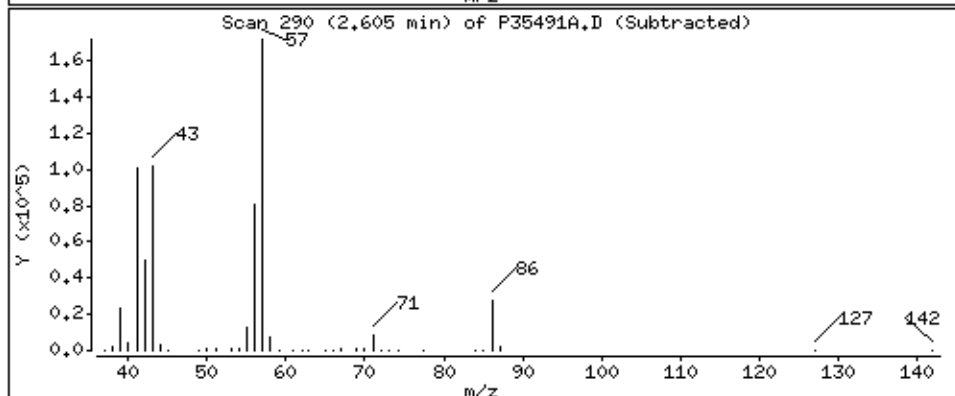
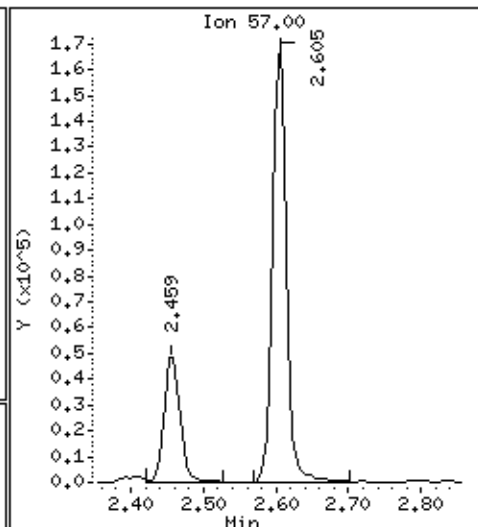
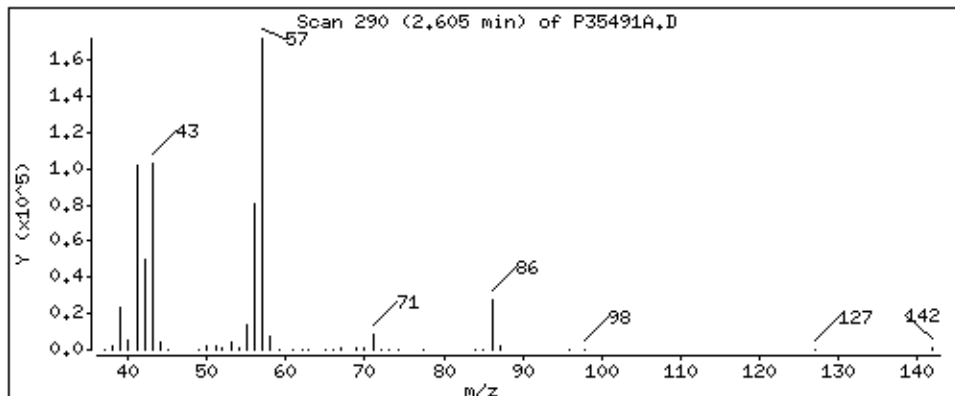
Review Code:



30 n-Hexane

Concentration: 44.6 ug/L

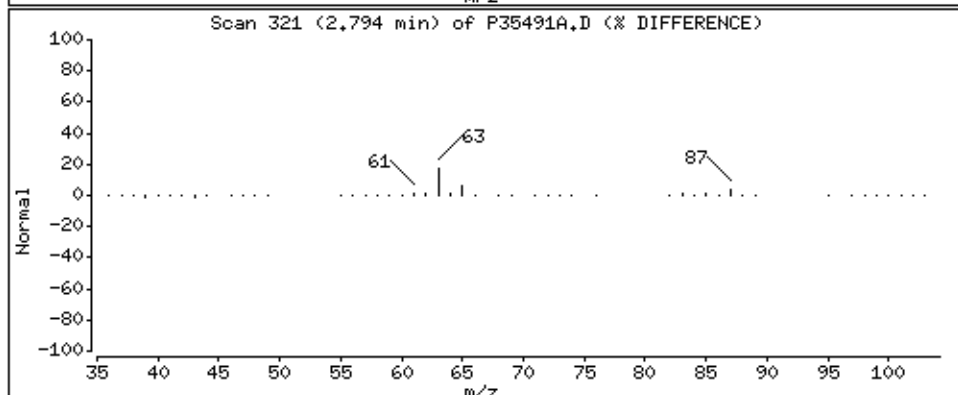
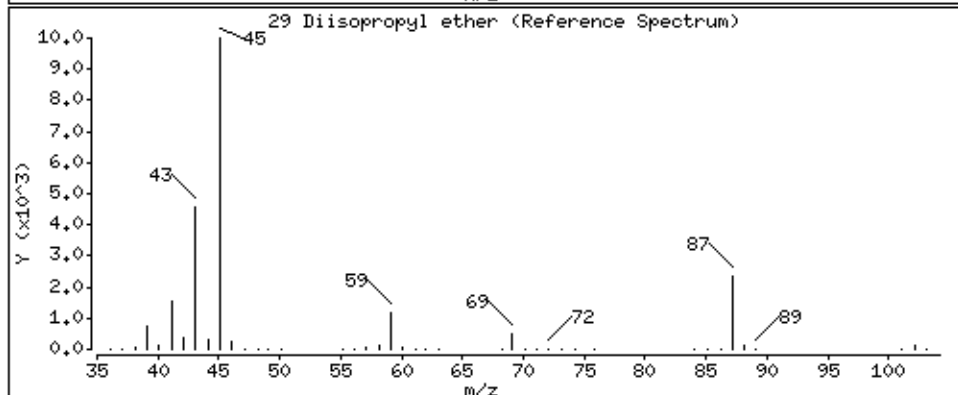
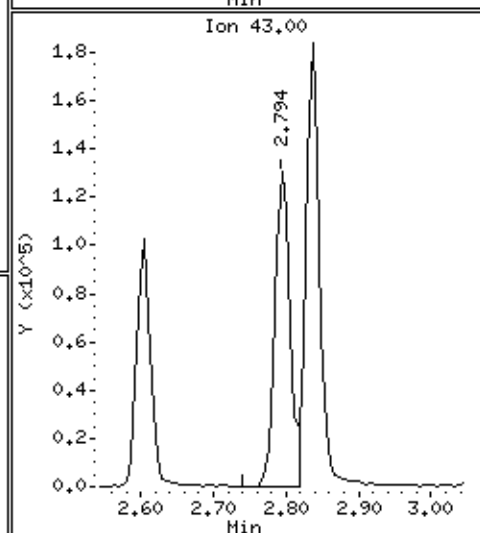
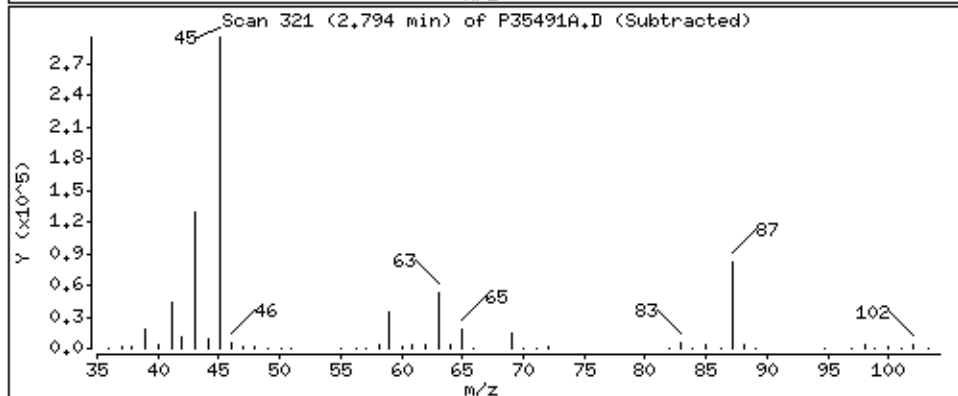
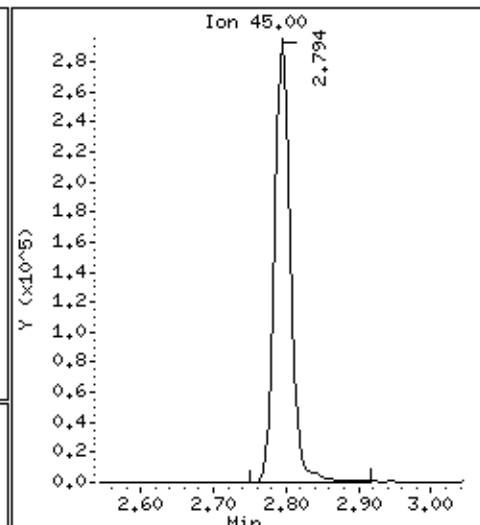
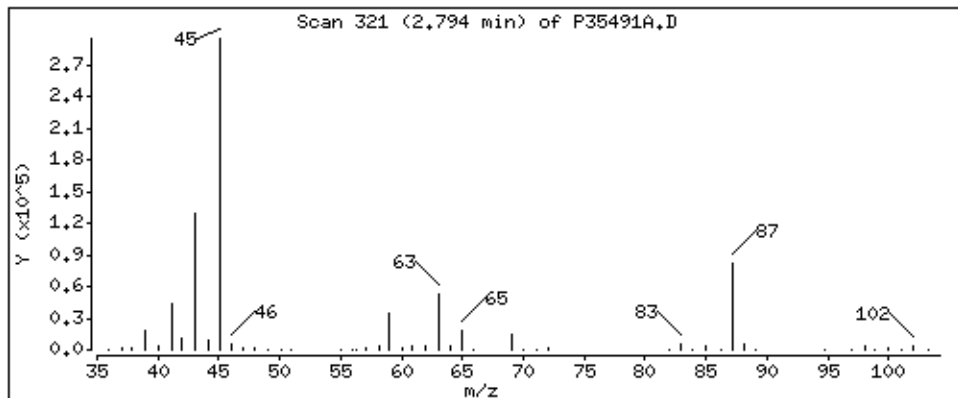
Review Code:



29 Diisopropyl ether

Concentration: 44,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

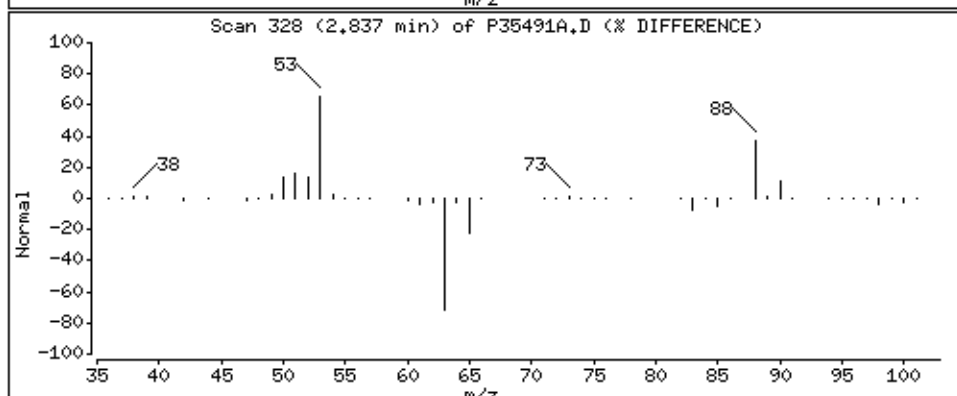
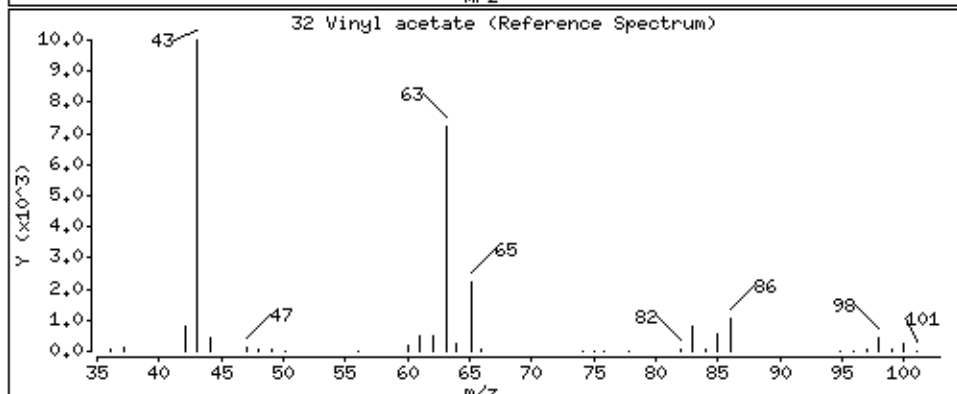
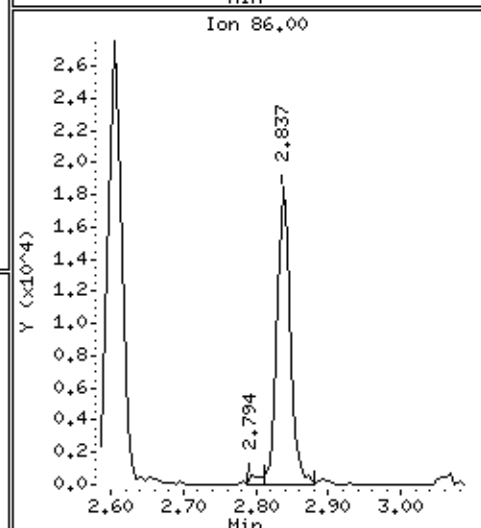
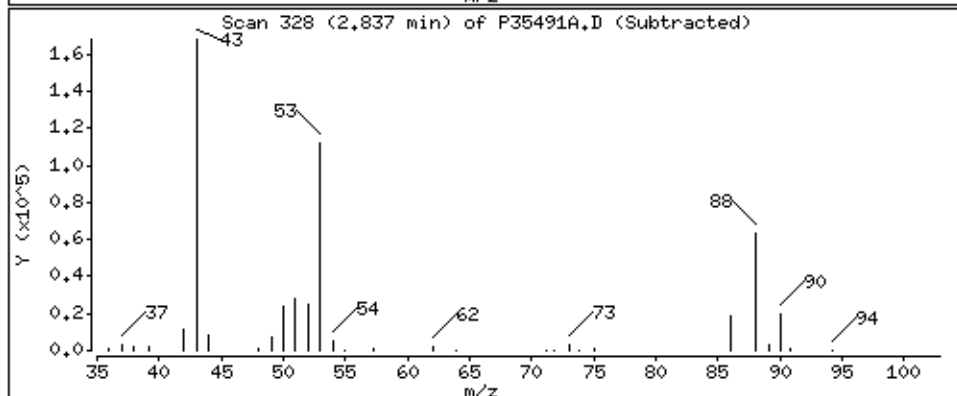
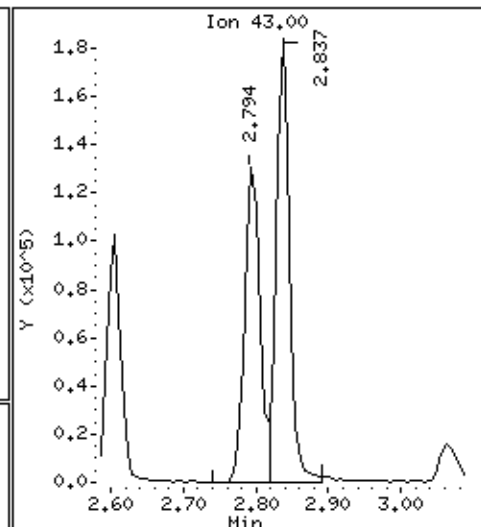
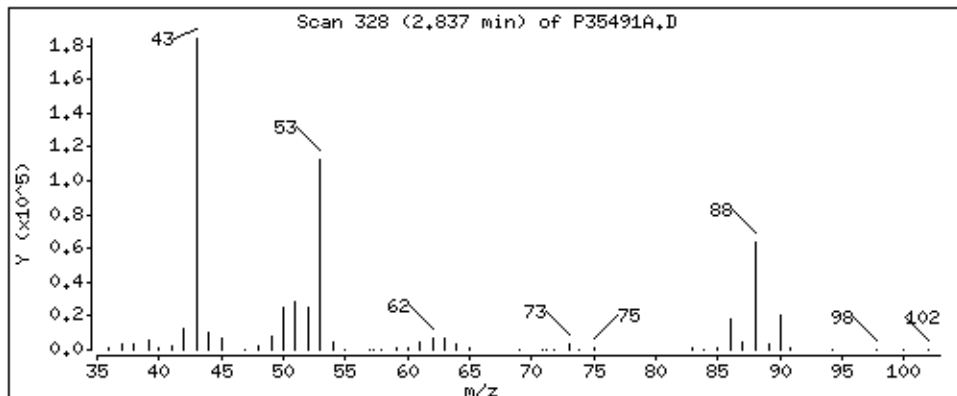
Column phase: RTX-624

Column diameter: 0,18

32 Vinyl acetate

Concentration: 38,2 ug/L

Review Code:

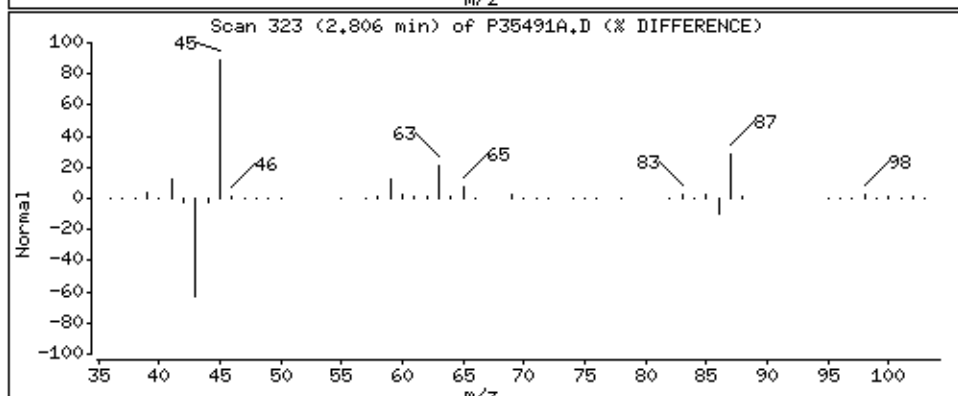
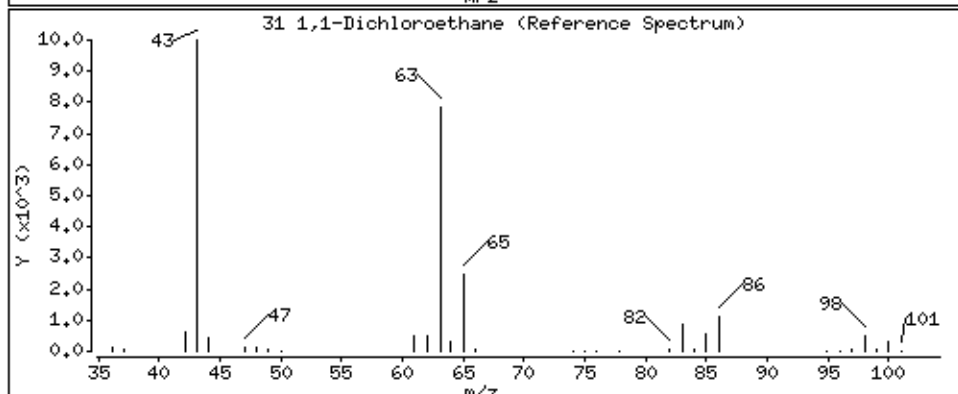
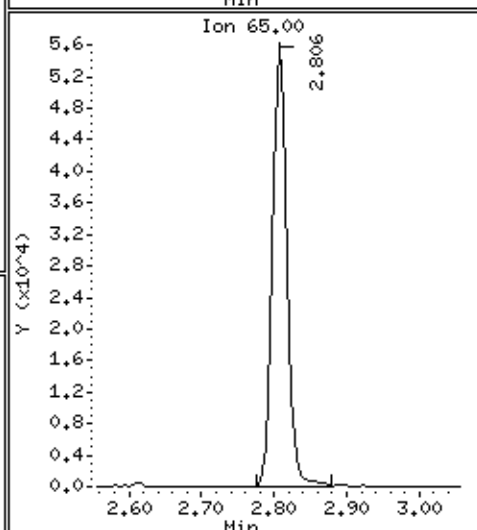
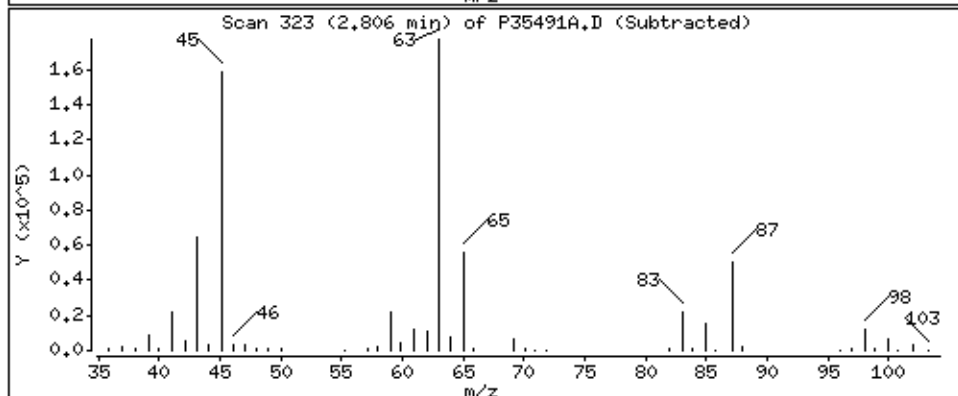
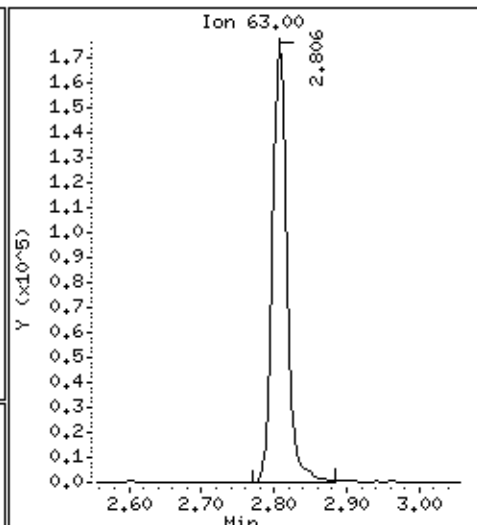
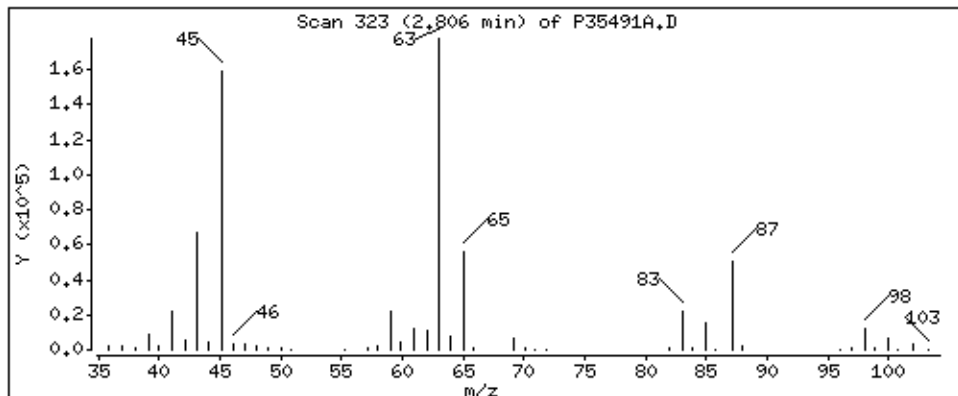




31 1,1-Dichloroethane

Concentration: 44,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

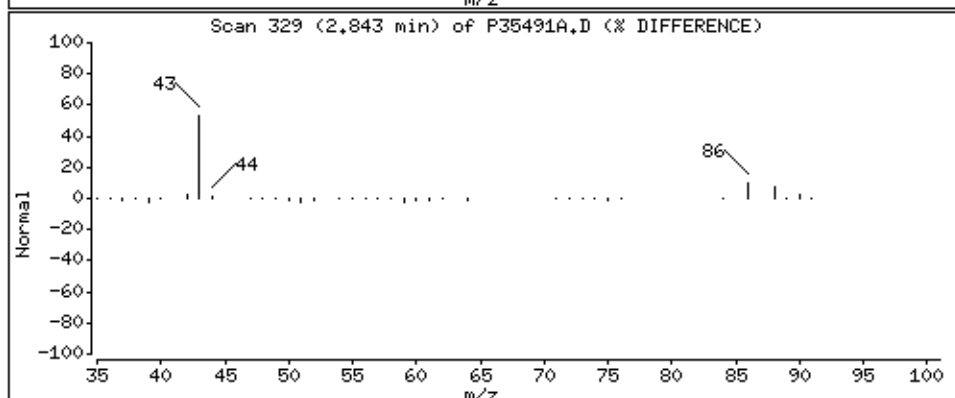
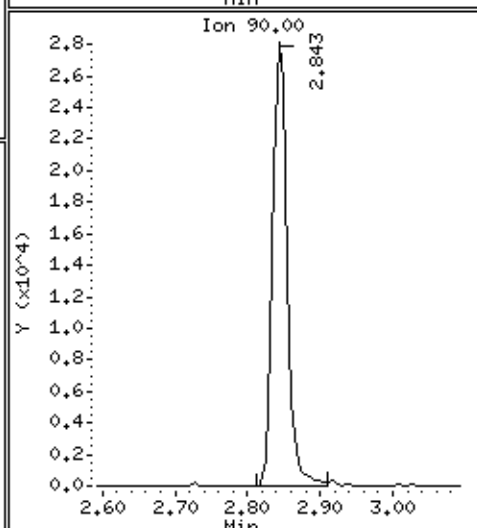
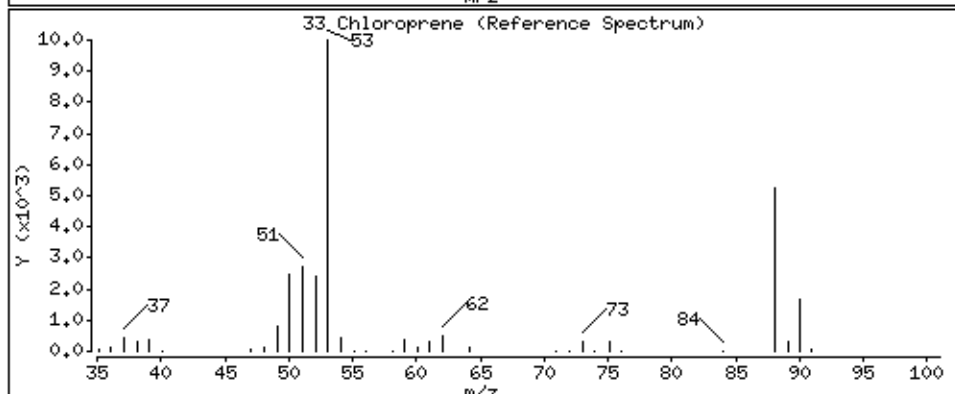
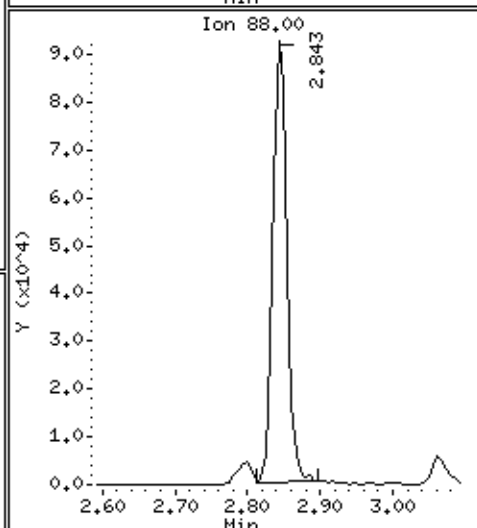
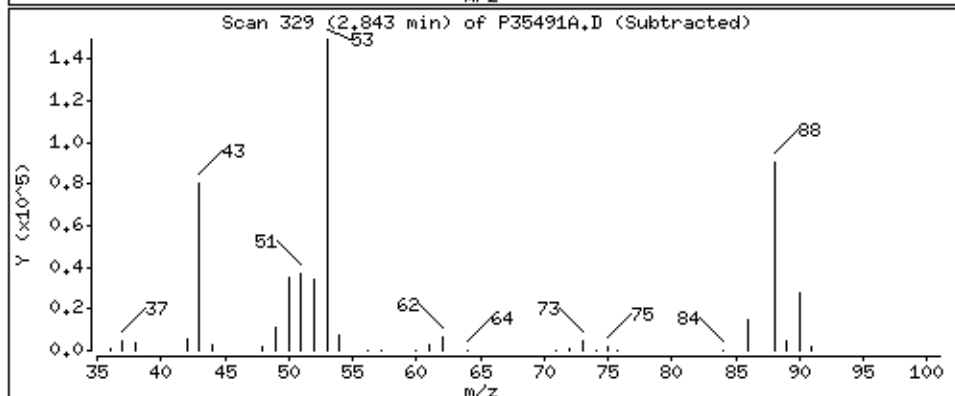
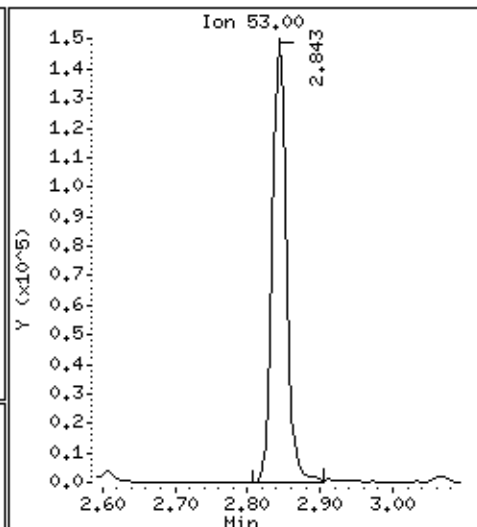
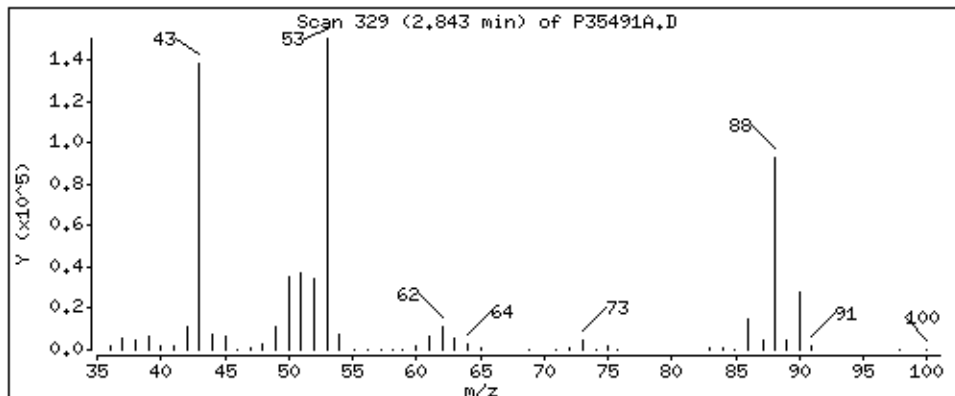
Column phase: RTX-624

Column diameter: 0,18

33 Chloroprene

Concentration: 49,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

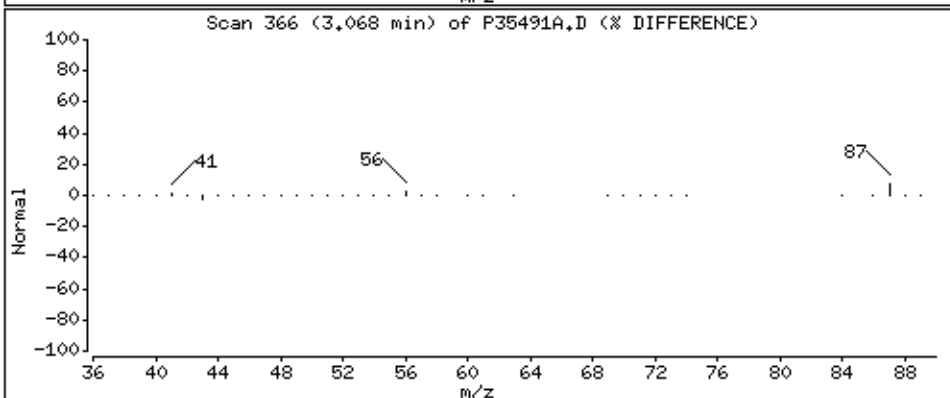
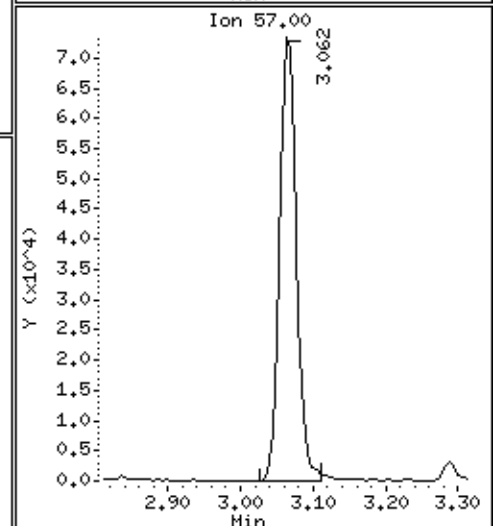
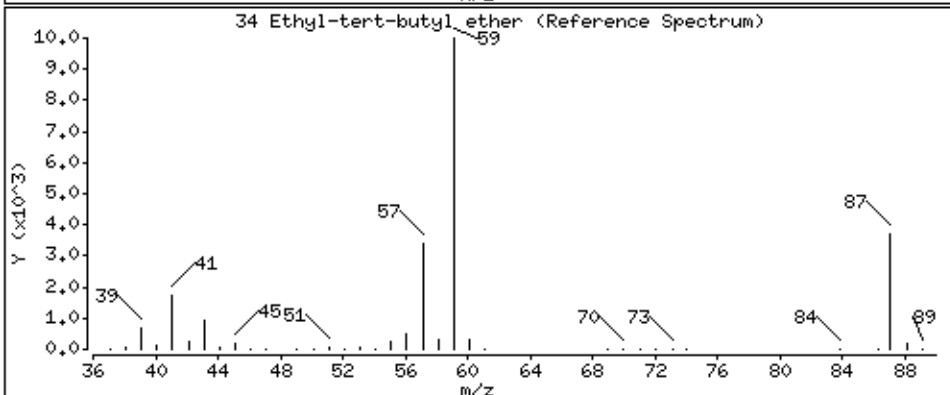
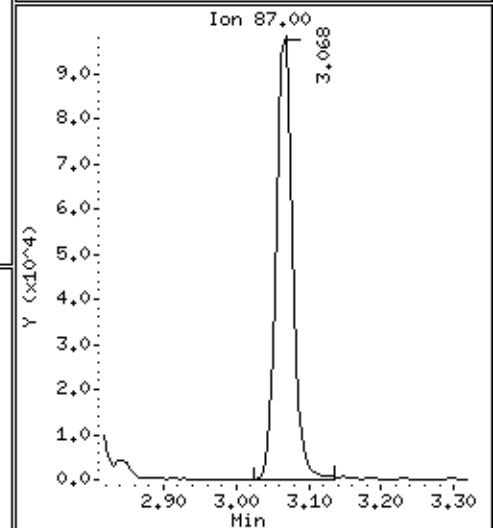
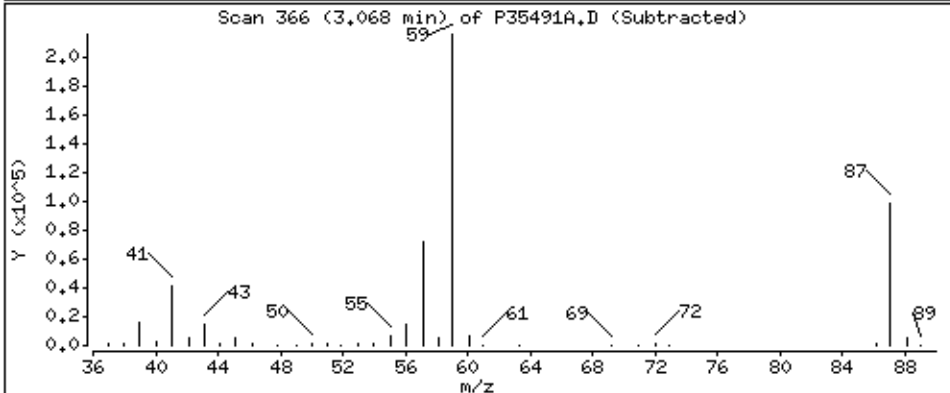
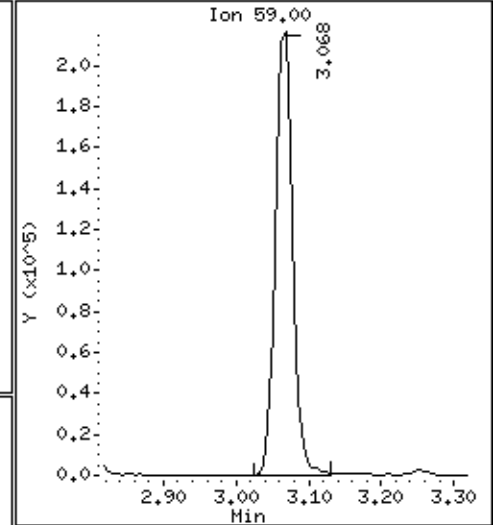
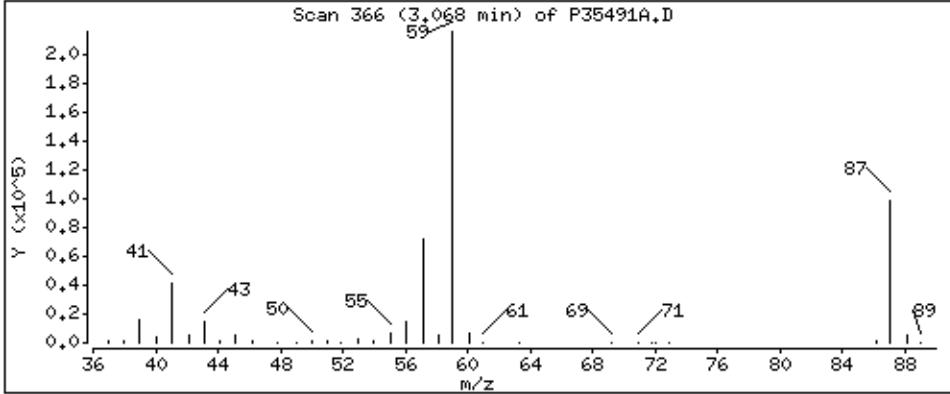
Column phase: RTX-624

Column diameter: 0,18

34 Ethyl-tert-butyl ether

Concentration: 39,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

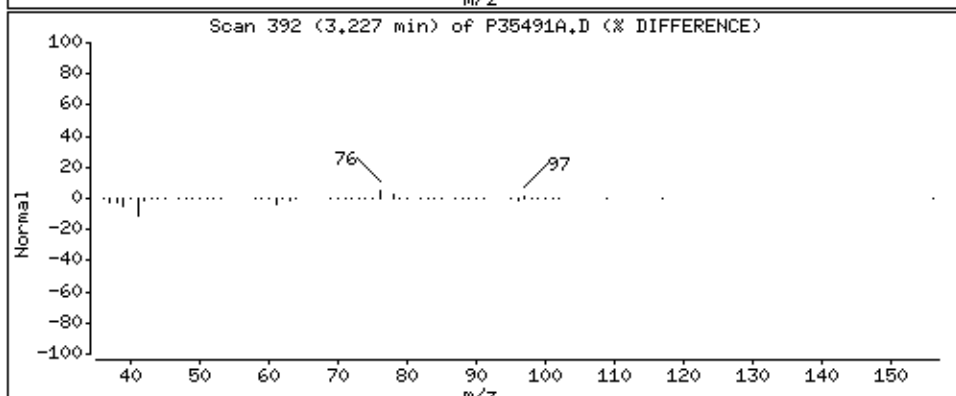
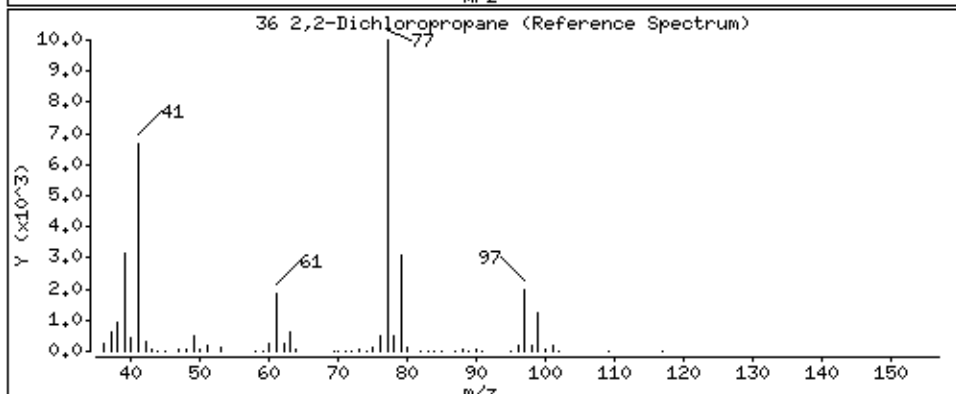
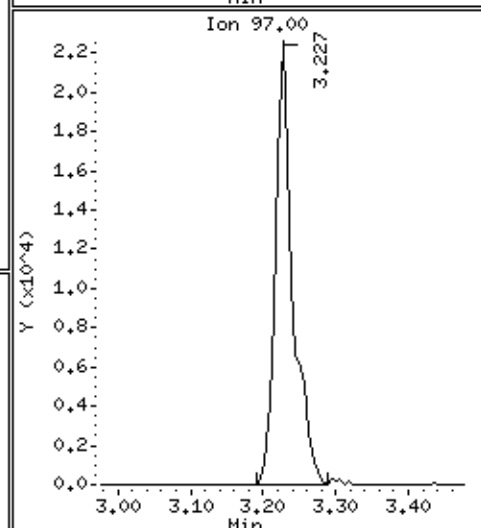
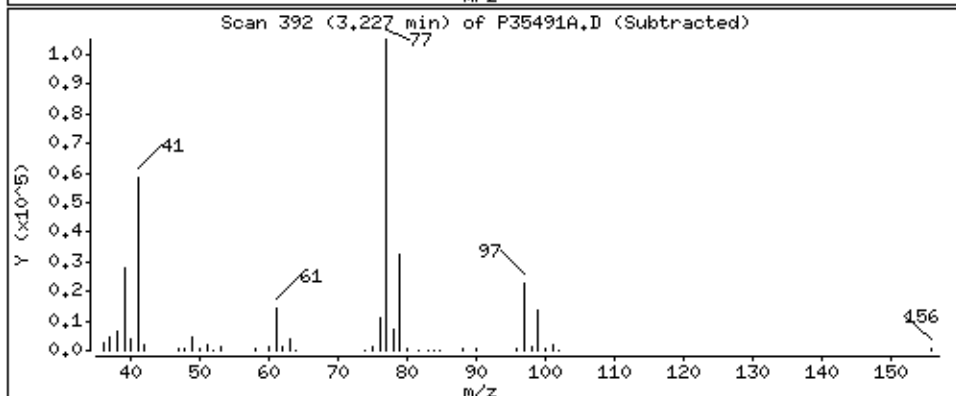
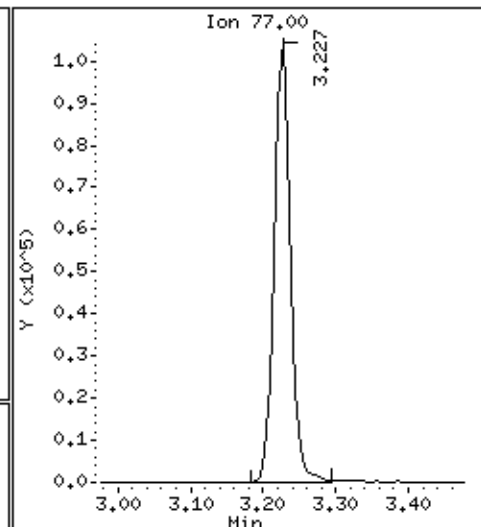
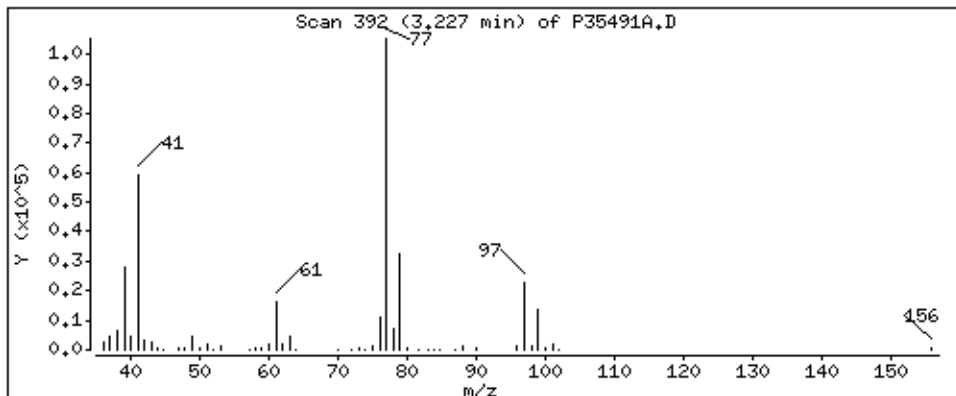
Column phase: RTX-624

Column diameter: 0,18

36 2,2-Dichloropropane

Concentration: 45,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

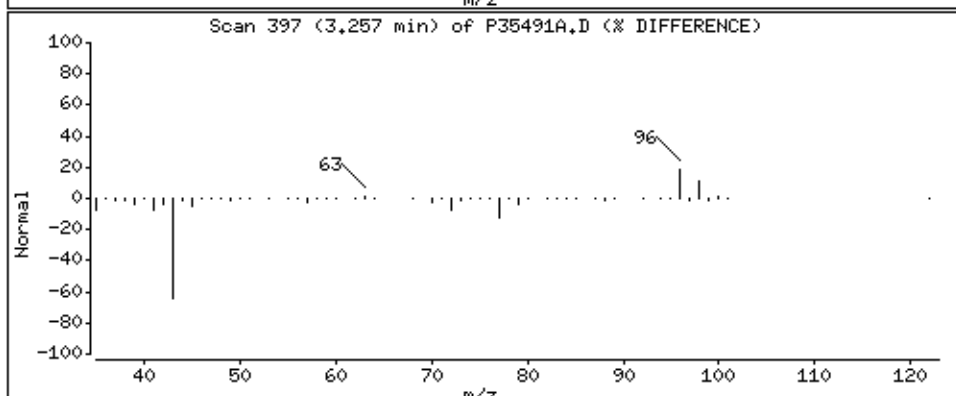
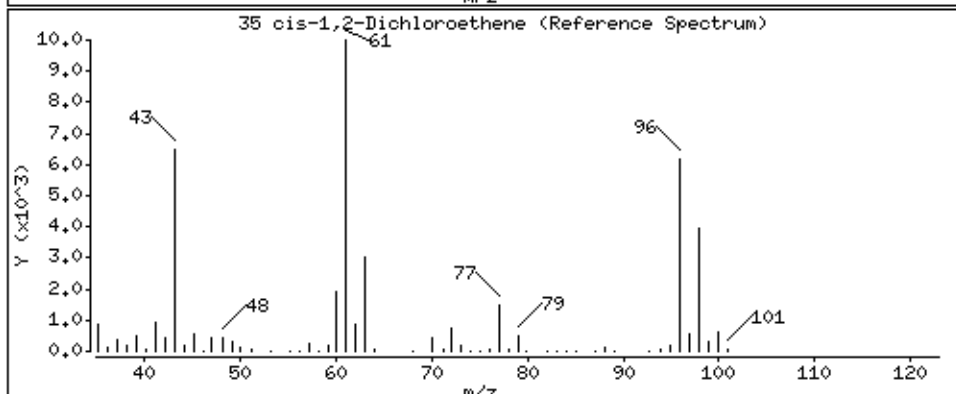
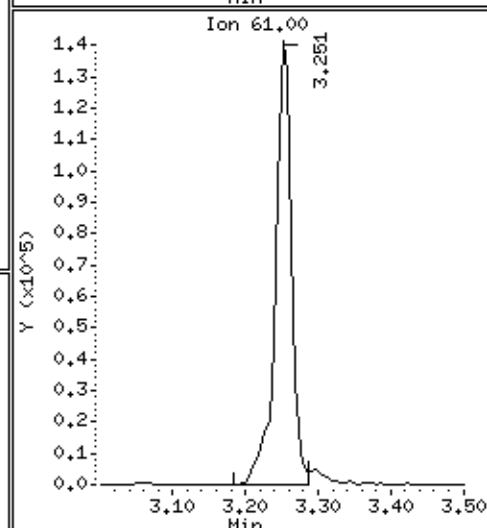
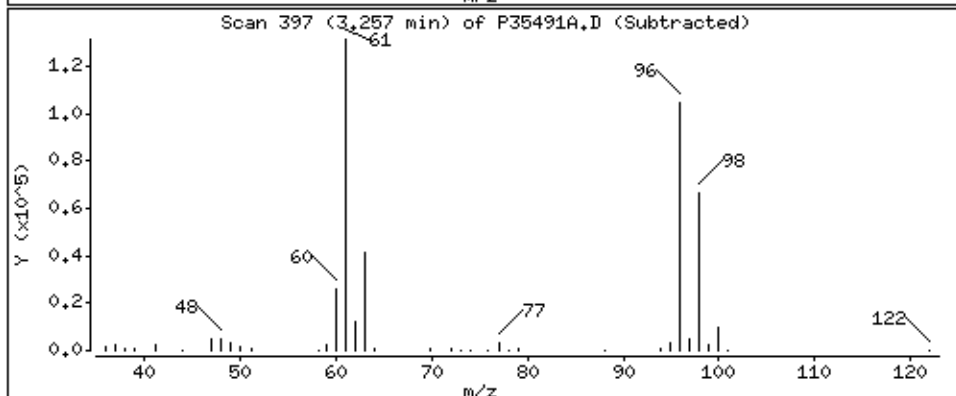
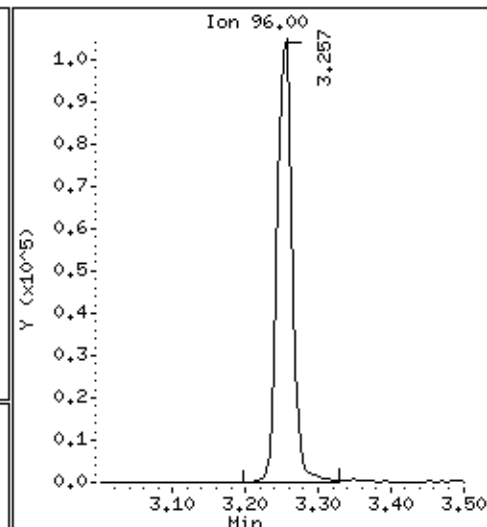
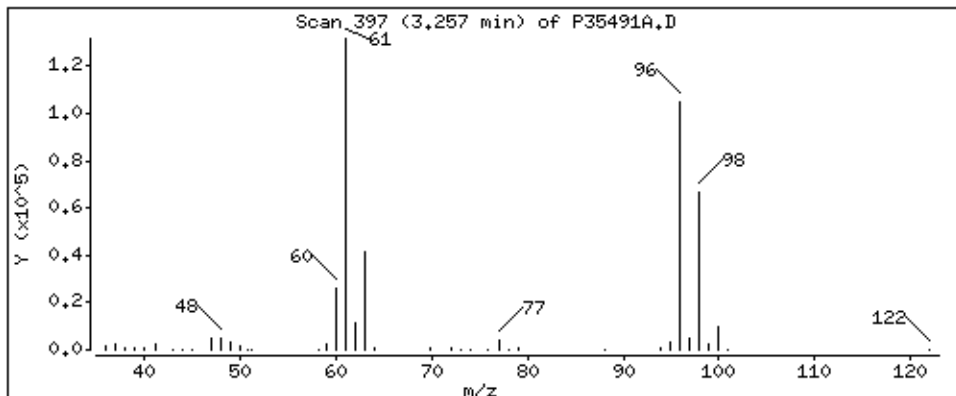
Column phase: RTX-624

Column diameter: 0,18

35 cis-1,2-Dichloroethene

Concentration: 48,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

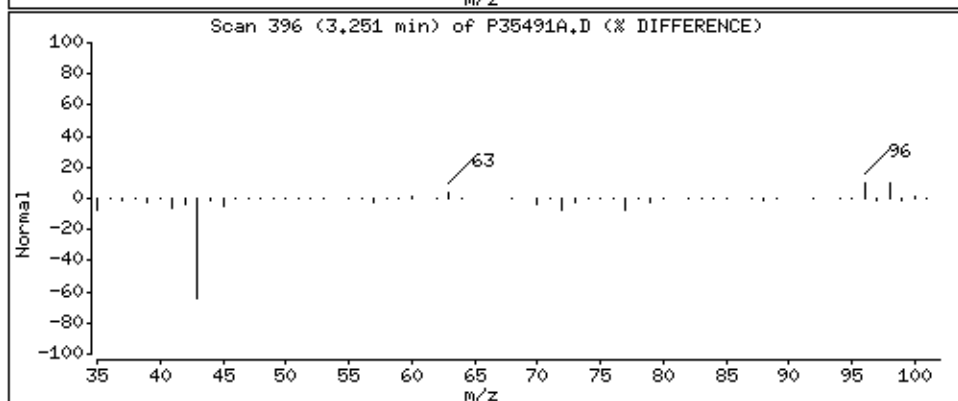
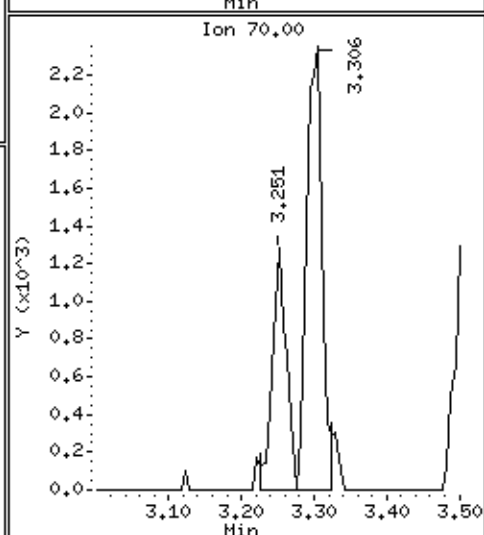
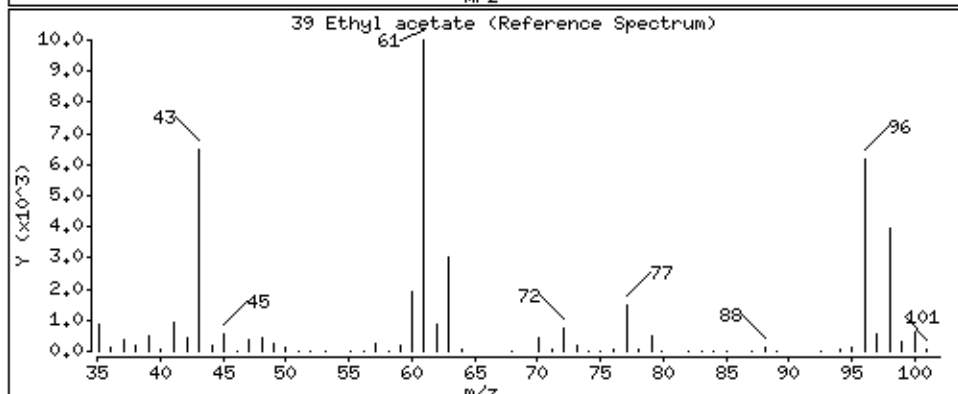
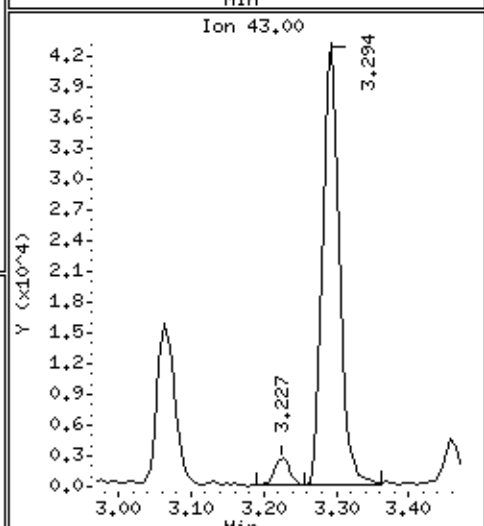
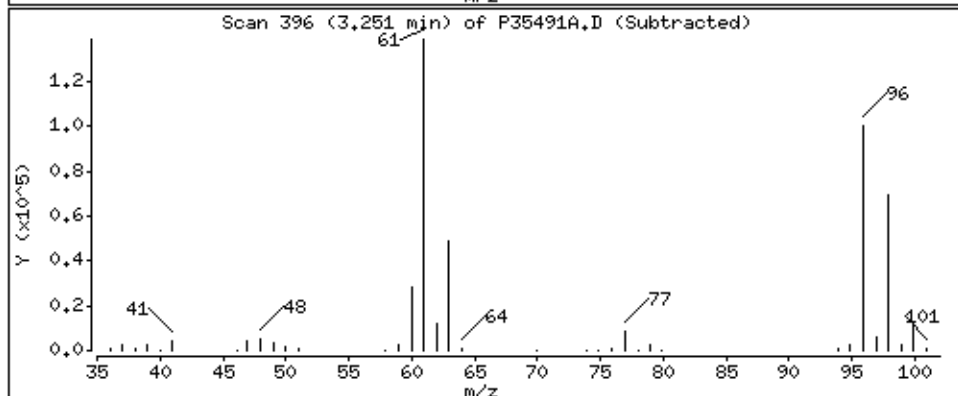
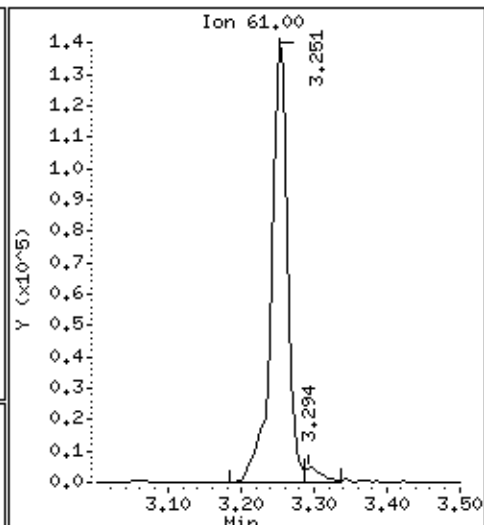
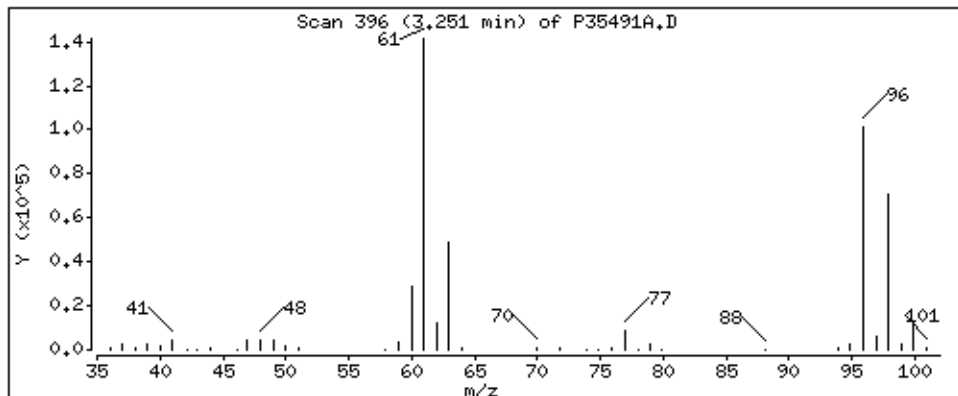
Column phase: RTX-624

Column diameter: 0,18

39 Ethyl acetate

Concentration: 44,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

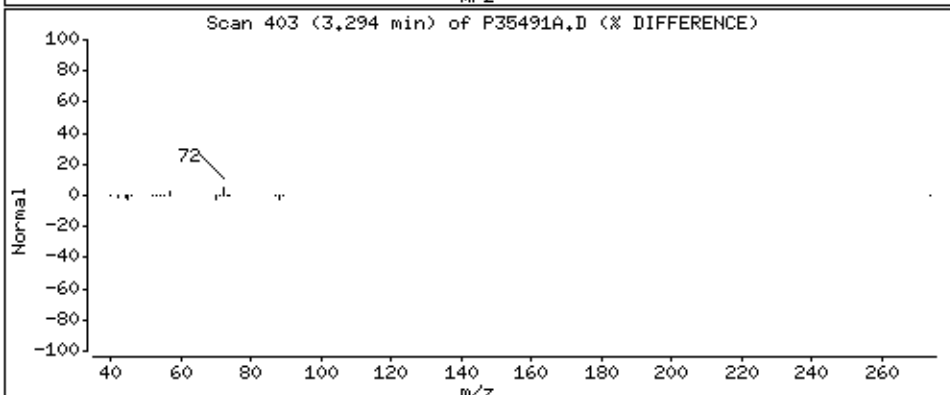
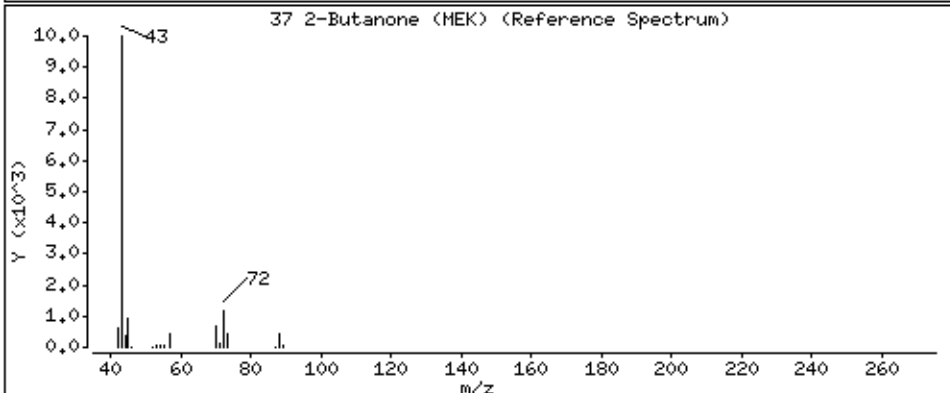
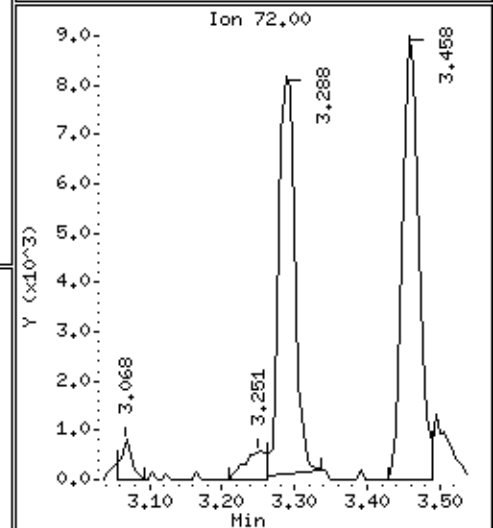
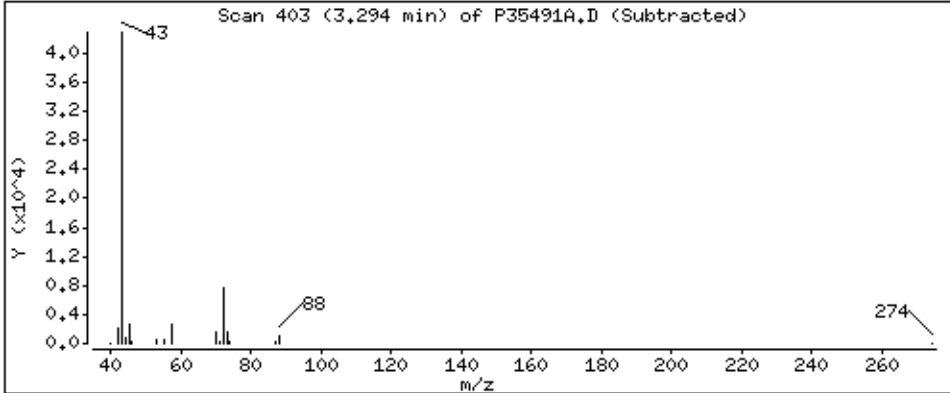
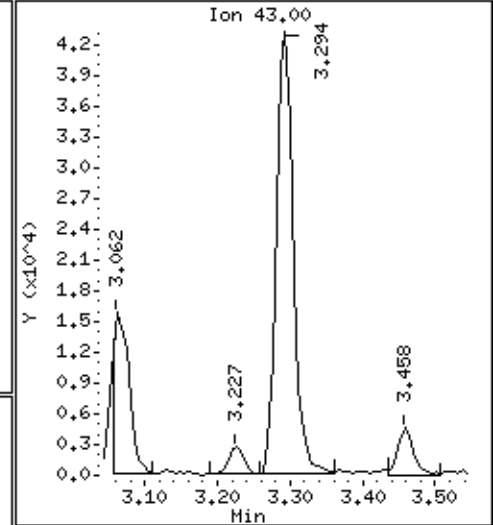
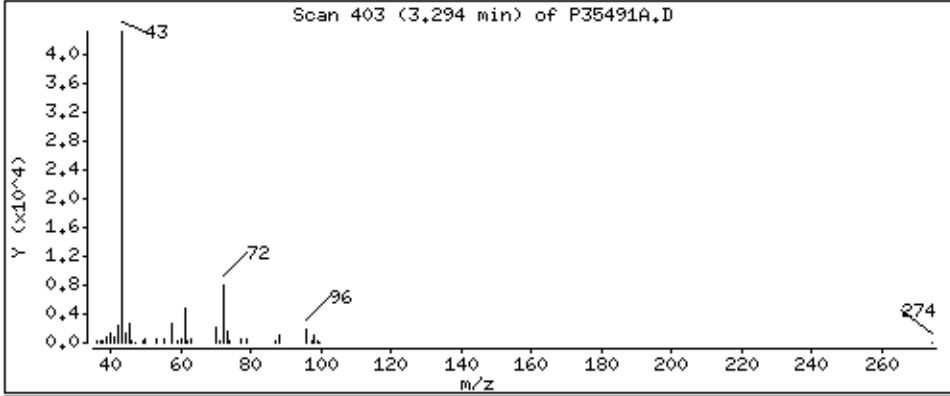
Column phase: RTX-624

Column diameter: 0,18

37 2-Butanone (MEK)

Concentration: 34,7 ug/L

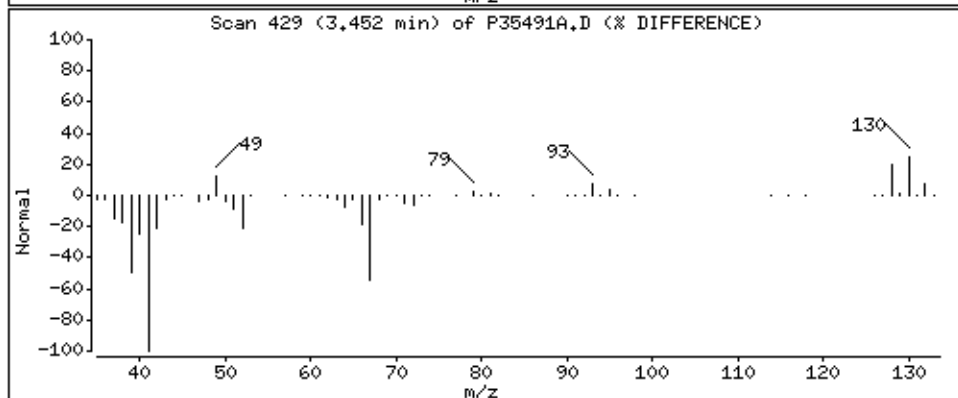
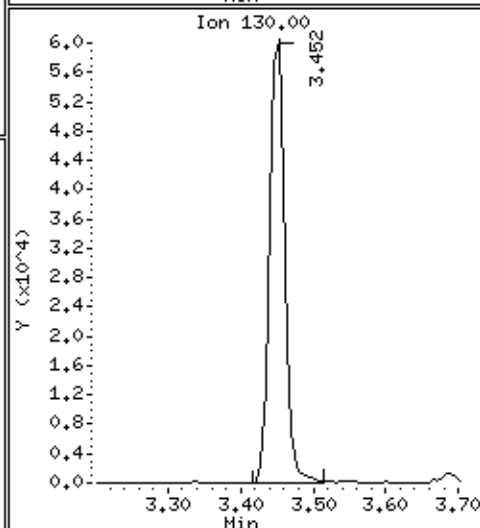
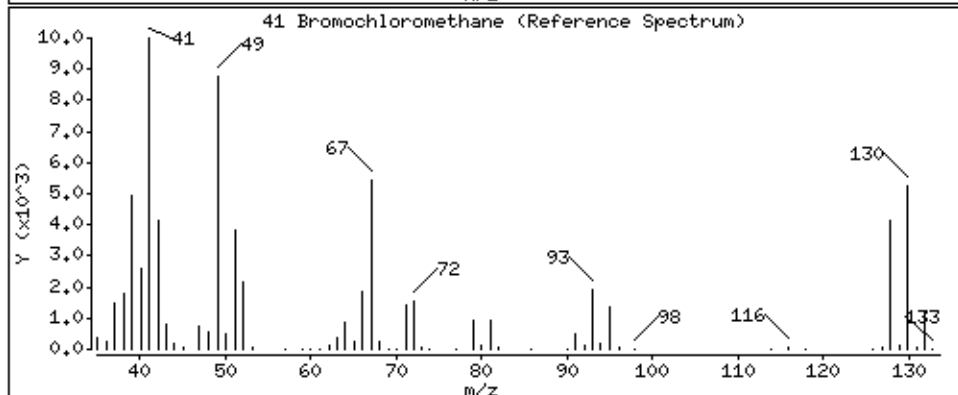
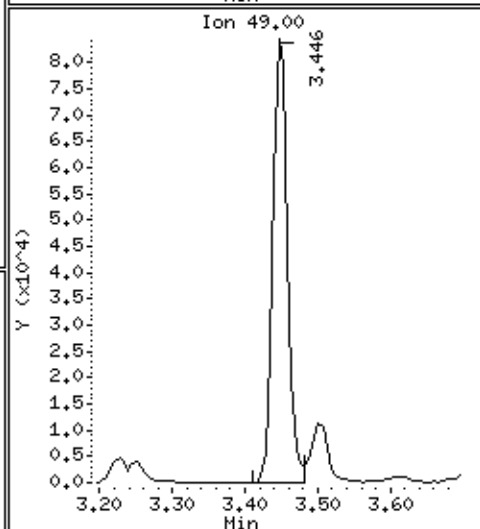
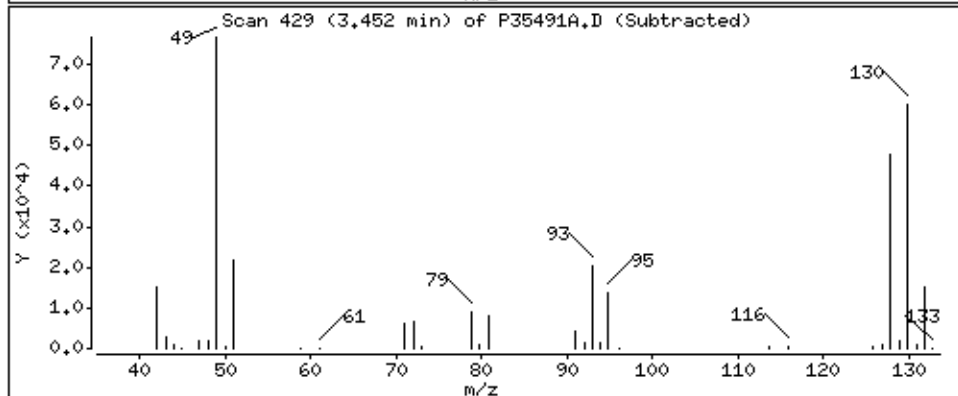
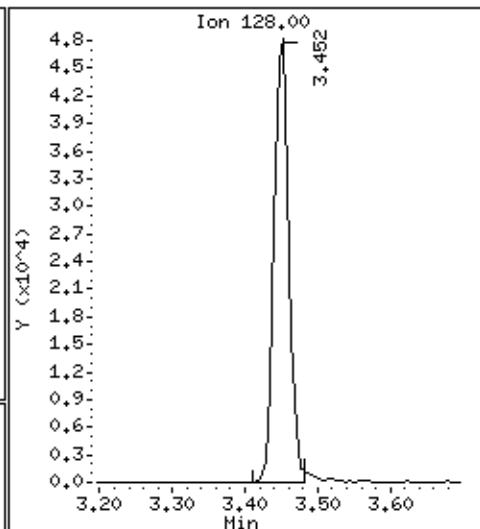
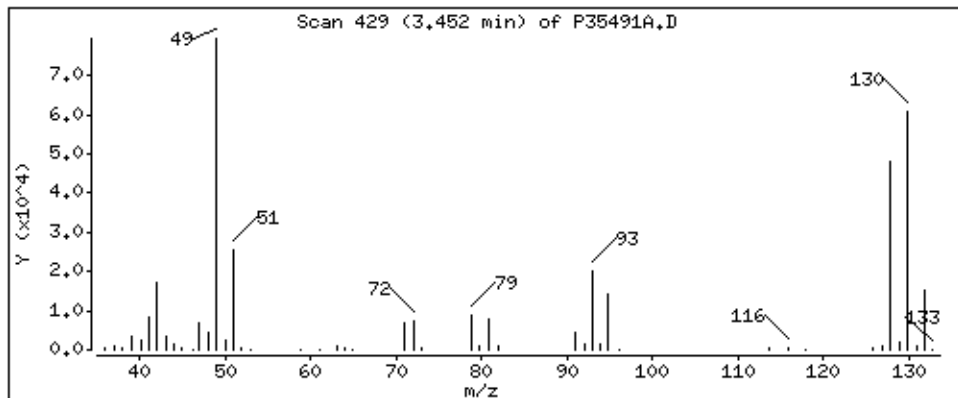
Review Code:



41 Bromochloromethane

Concentration: 50,2 ug/L

Review Code:

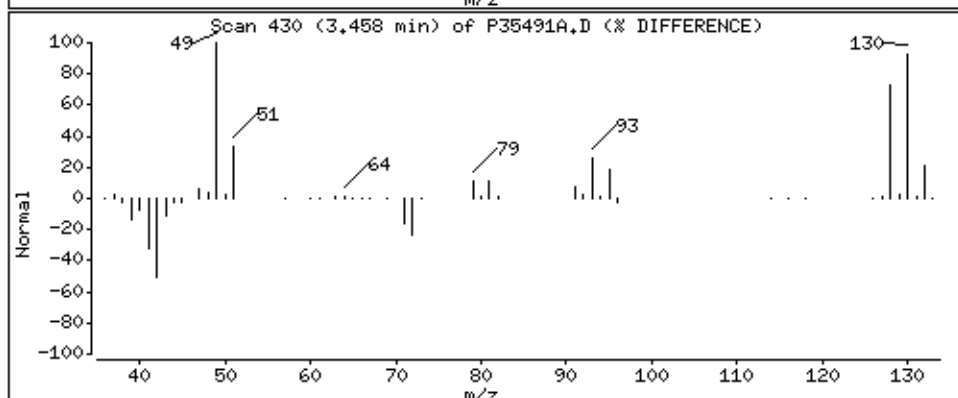
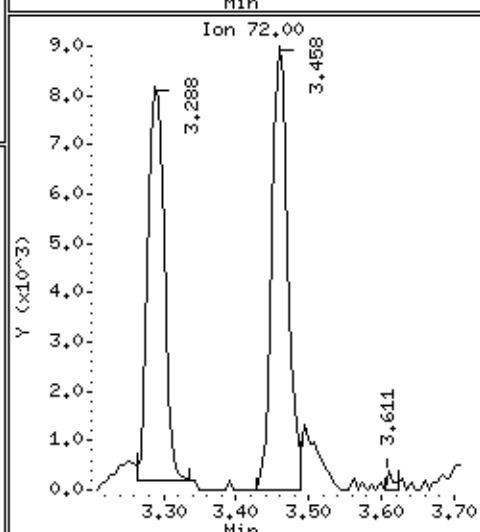
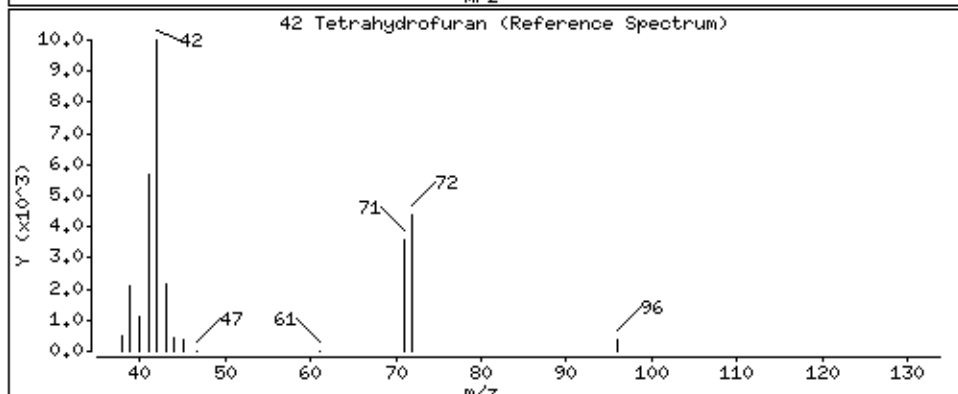
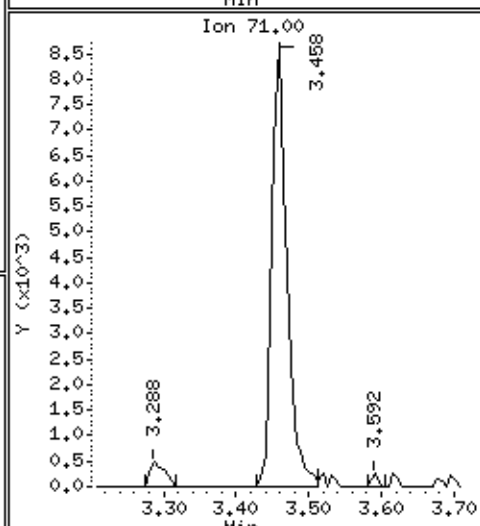
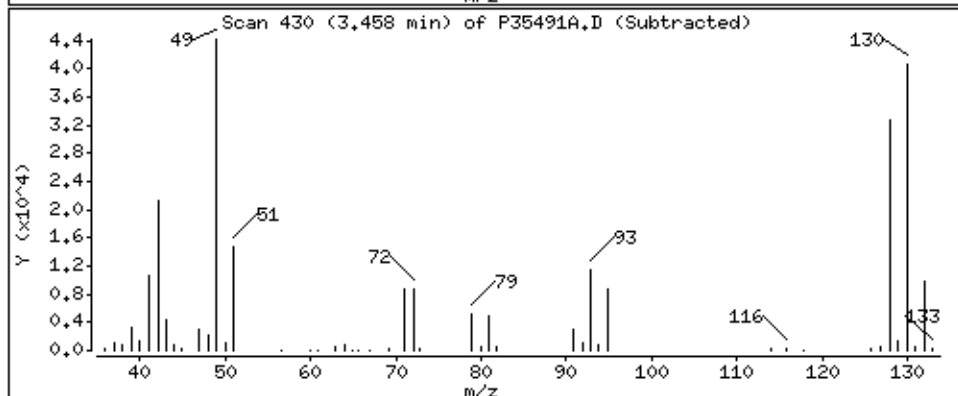
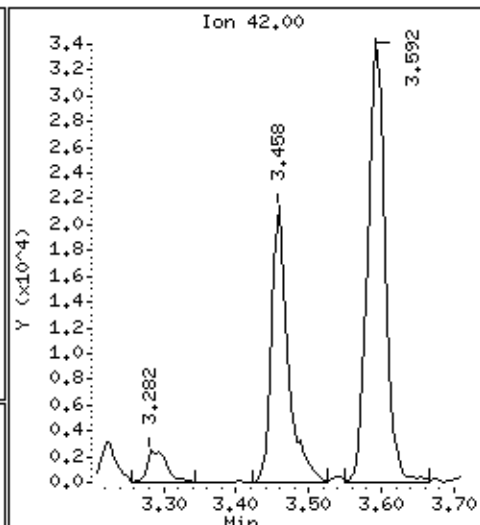
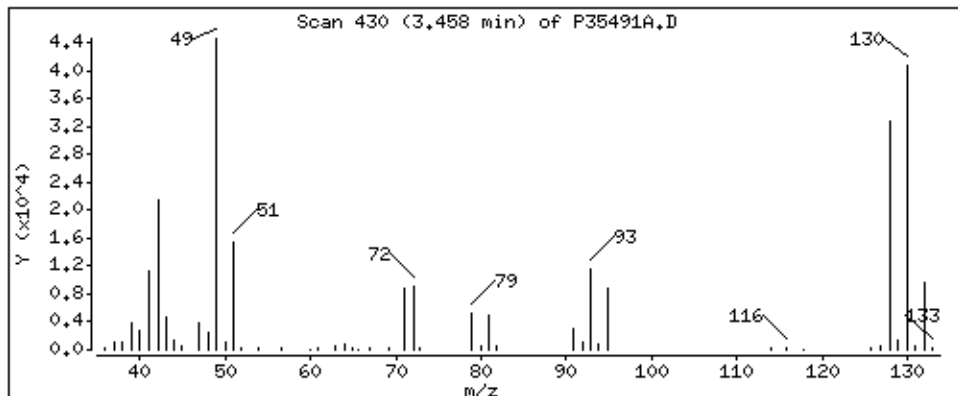




42 Tetrahydrofuran

Concentration: 38,2 ug/L

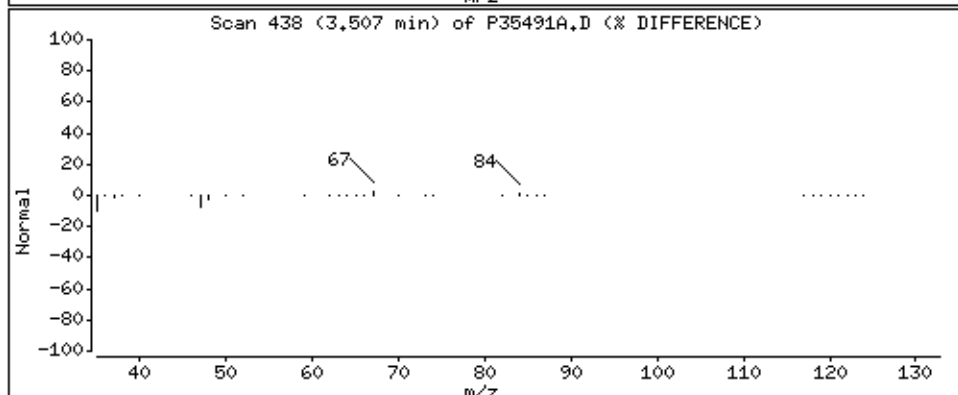
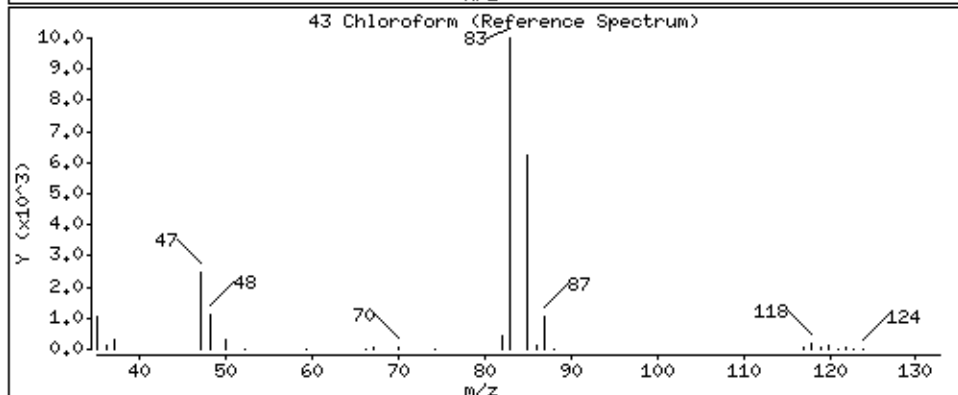
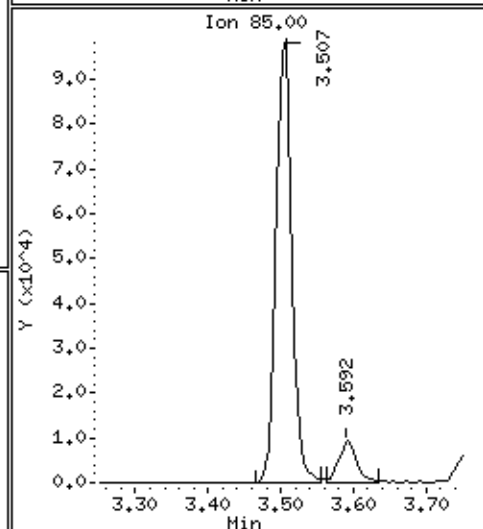
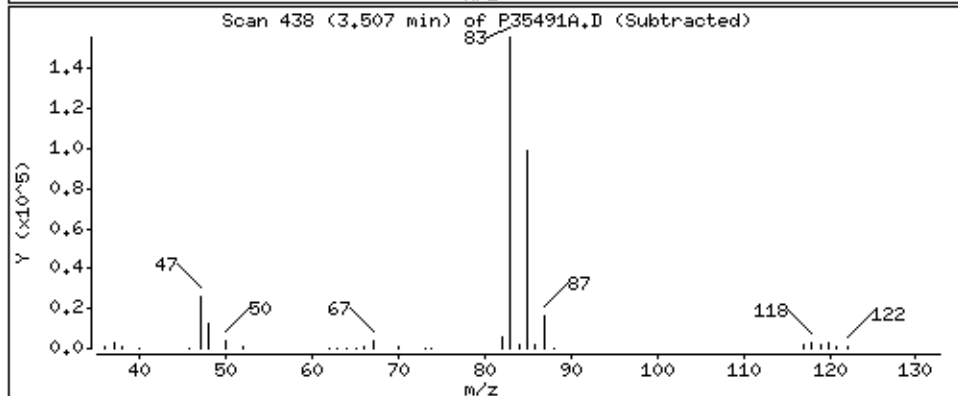
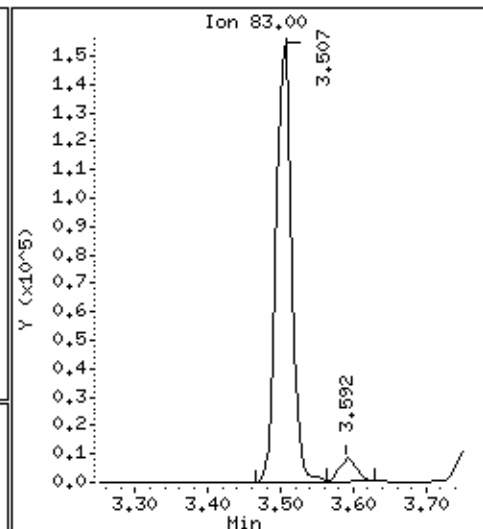
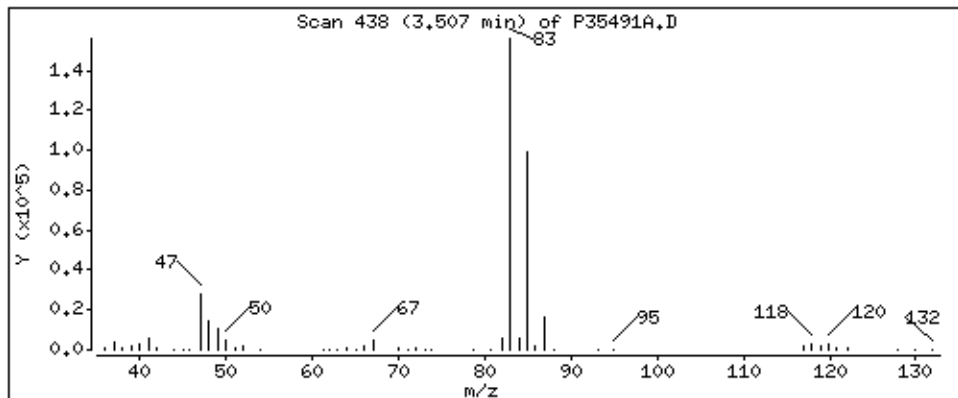
Review Code:



43 Chloroform

Concentration: 46,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

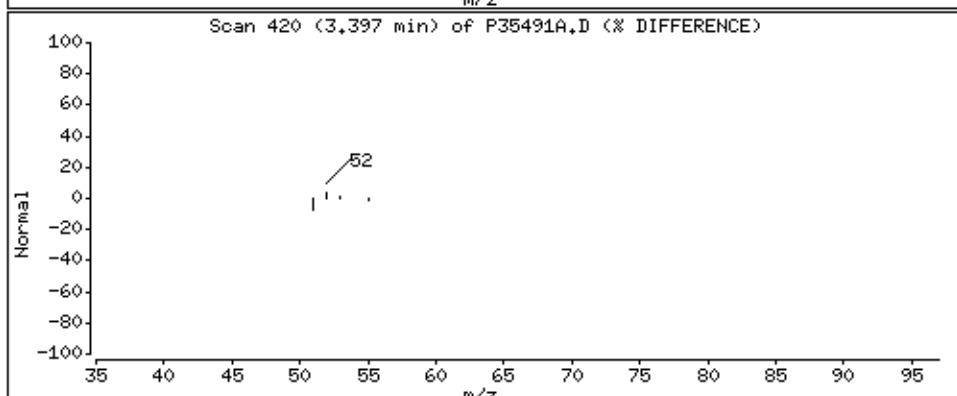
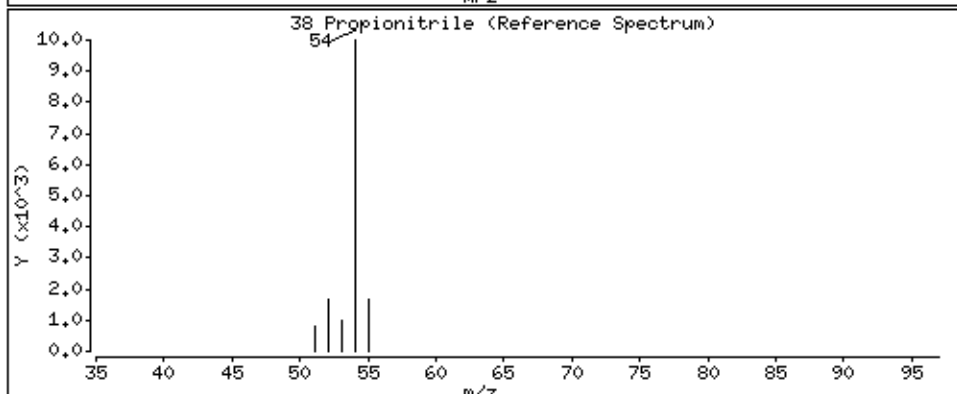
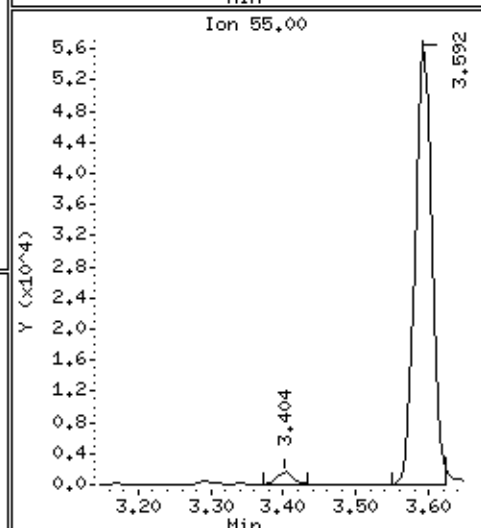
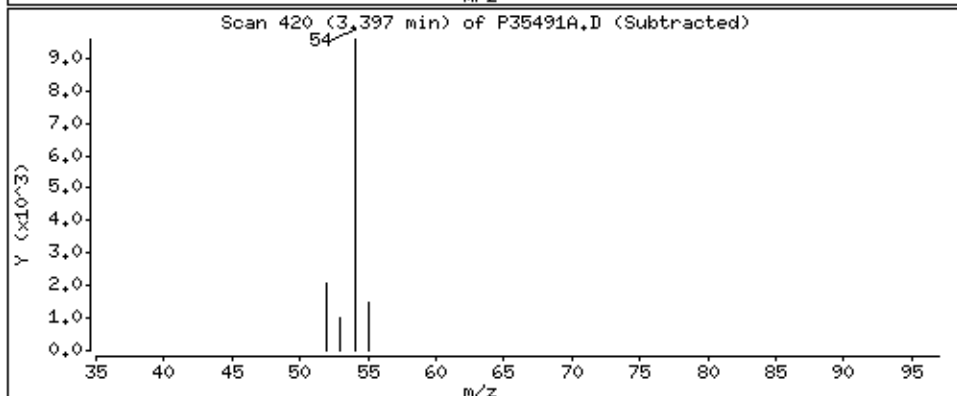
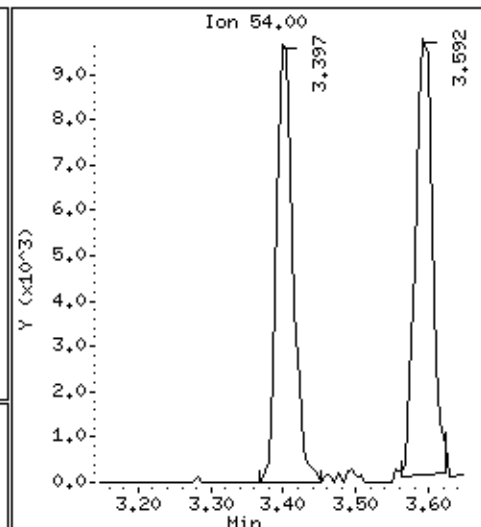
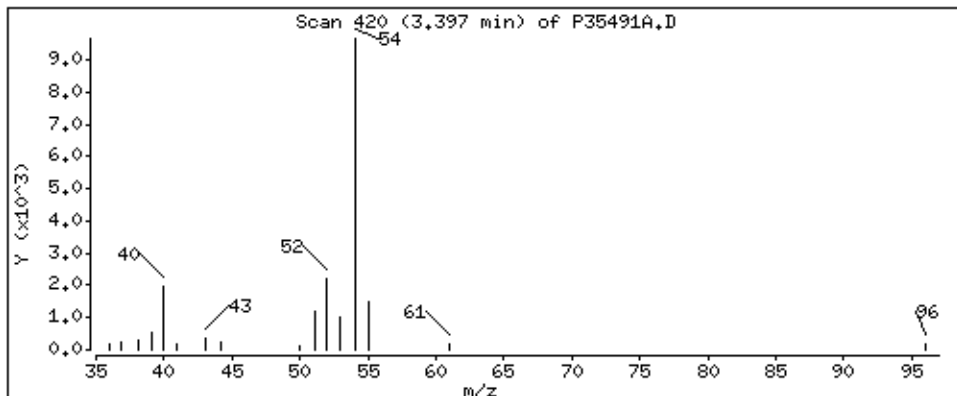
Column phase: RTX-624

Column diameter: 0,18

38 Propionitrile

Concentration: 44,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

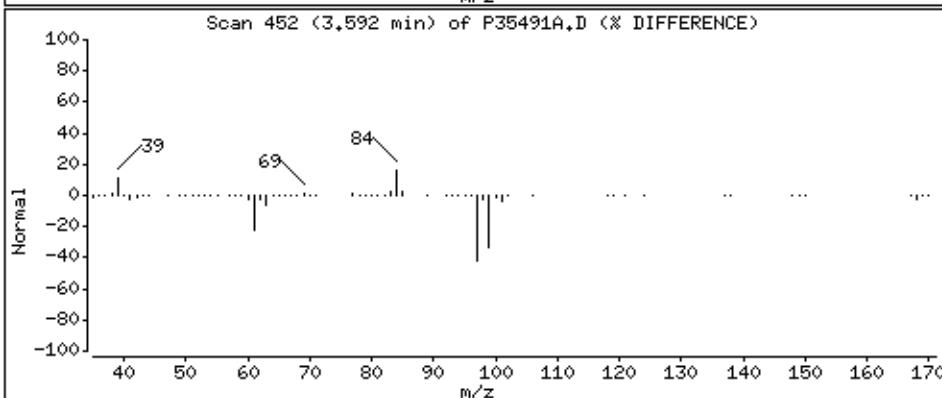
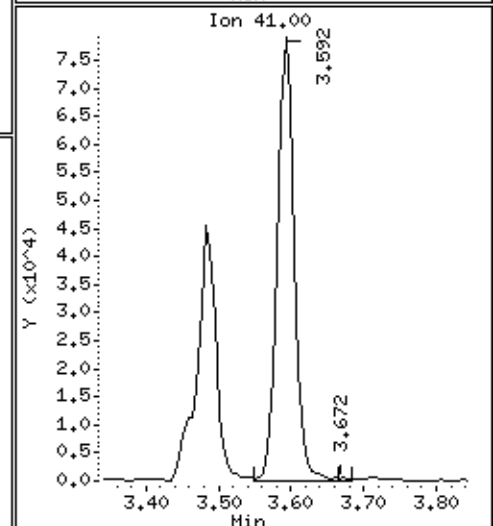
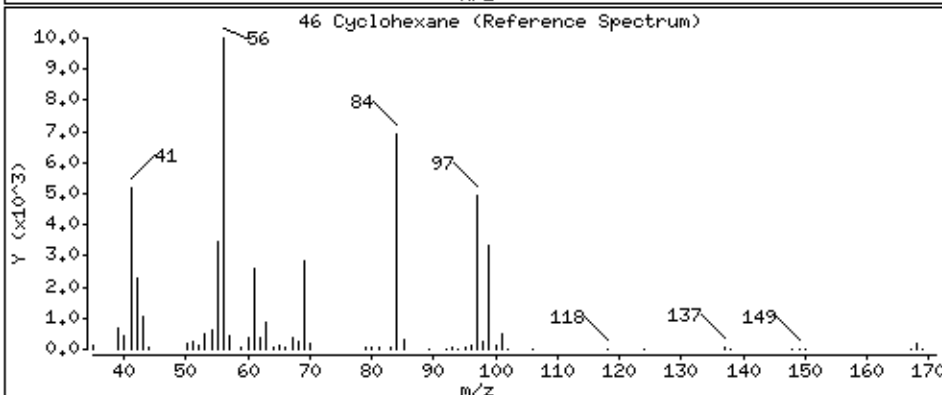
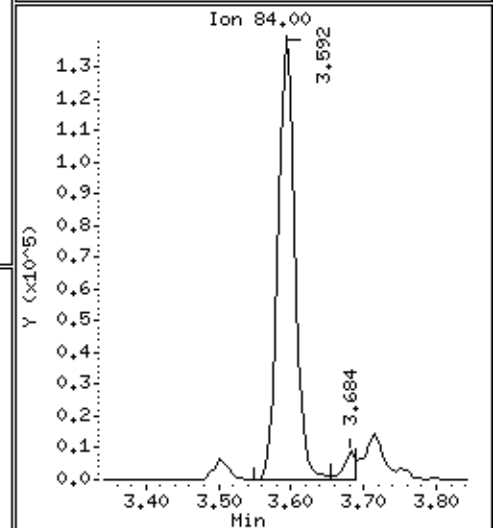
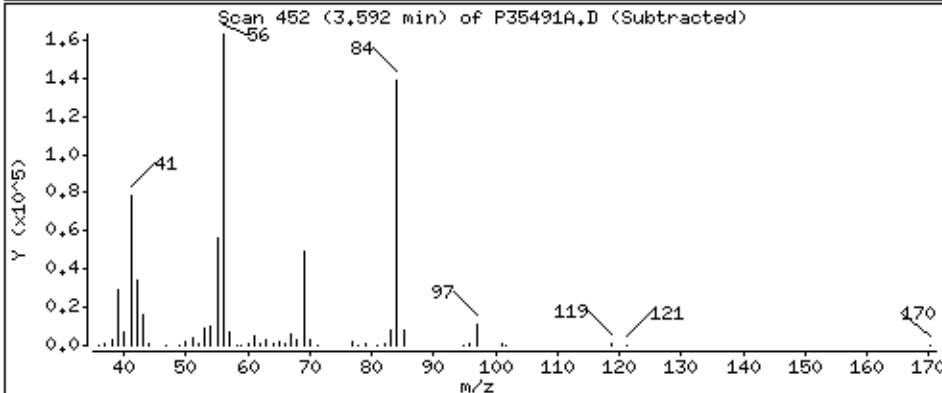
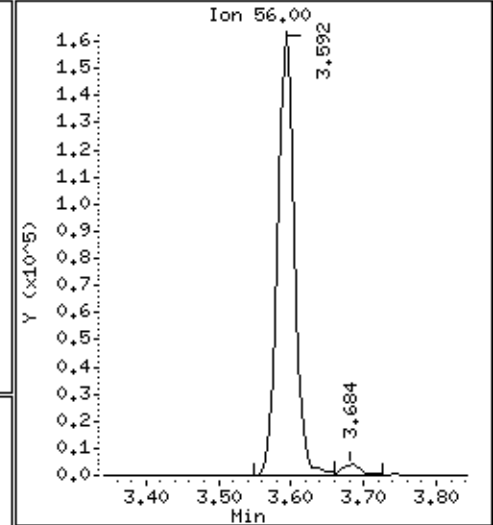
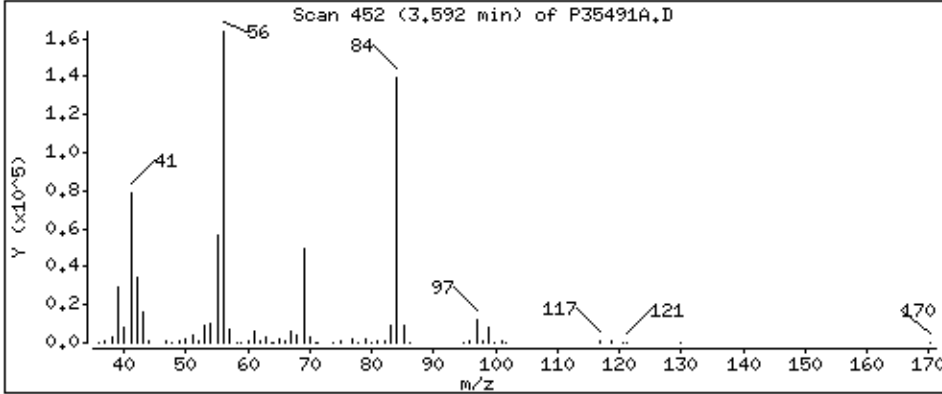
Column phase: RTX-624

Column diameter: 0,18

46 Cyclohexane

Concentration: 39,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

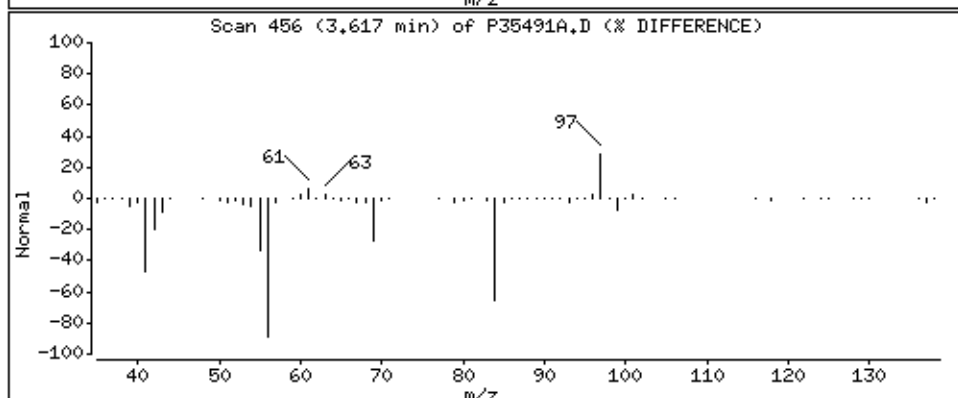
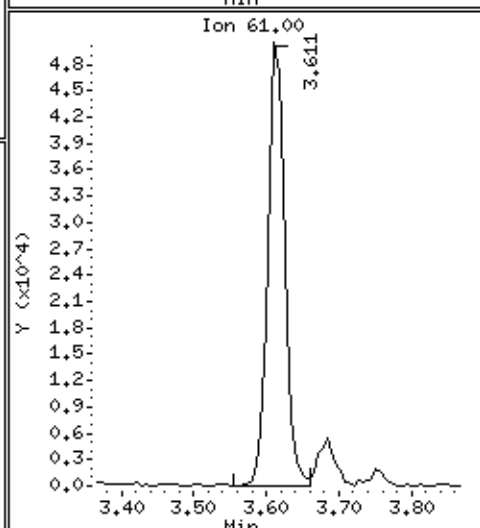
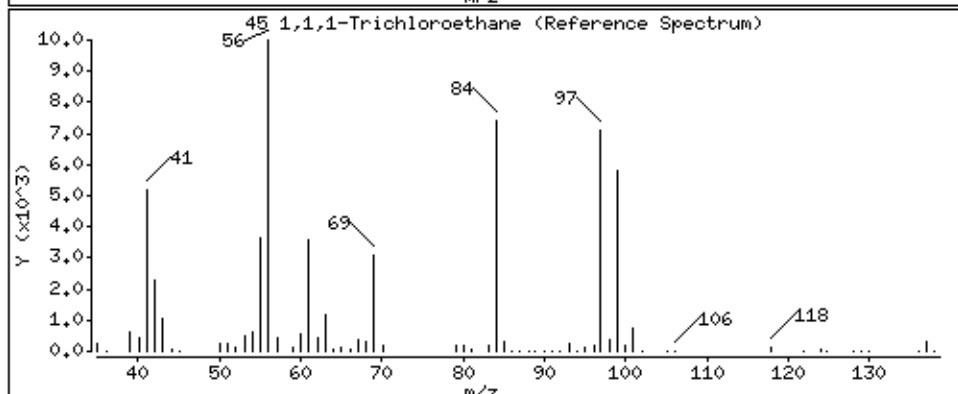
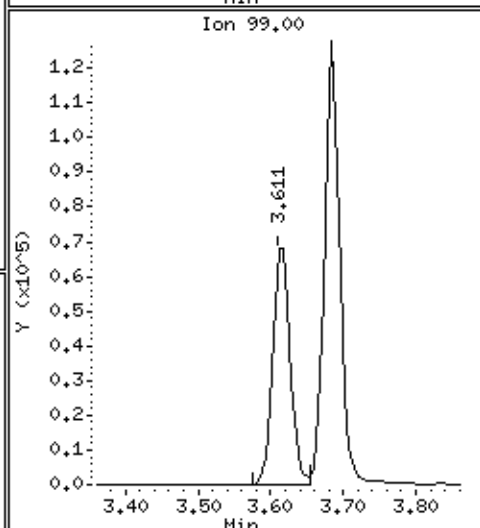
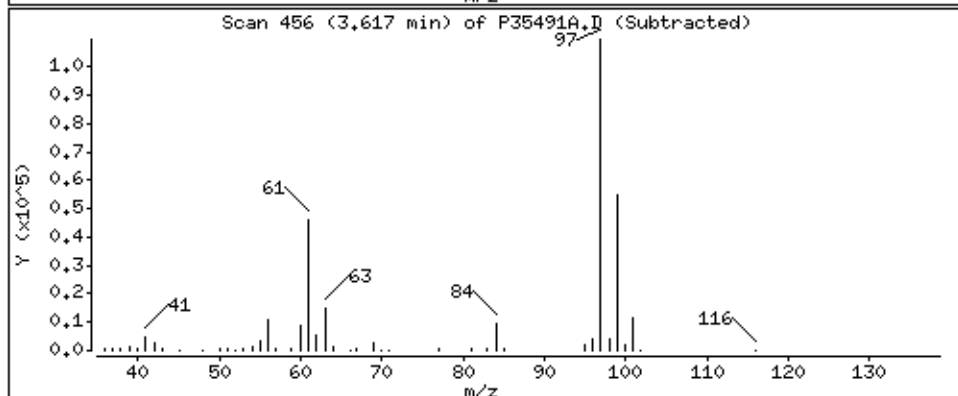
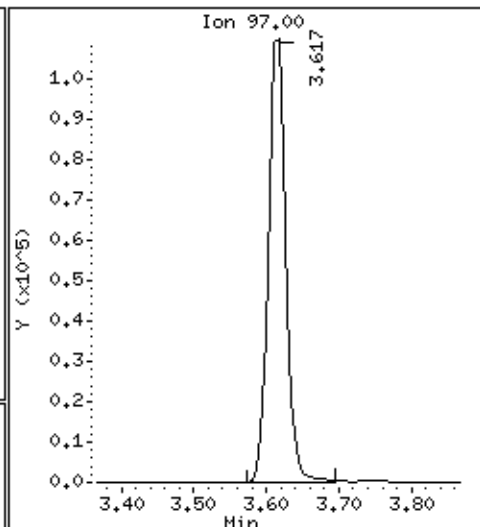
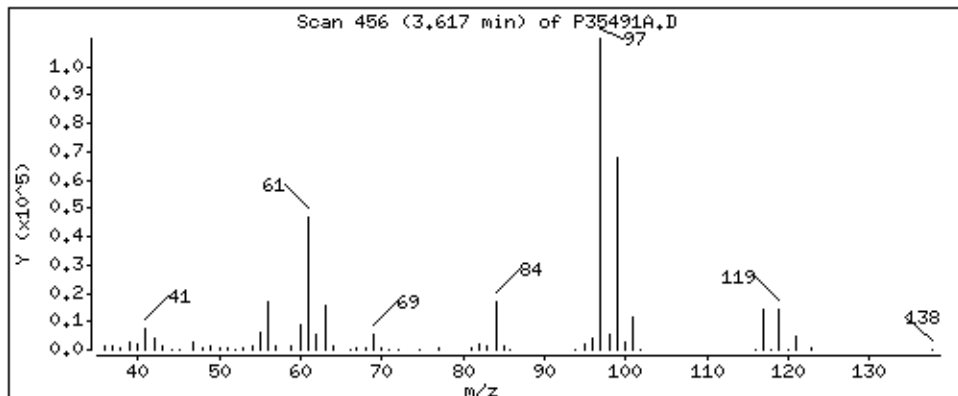
Column phase: RTX-624

Column diameter: 0,18

45 1,1,1-Trichloroethane

Concentration: 45,7 ug/L

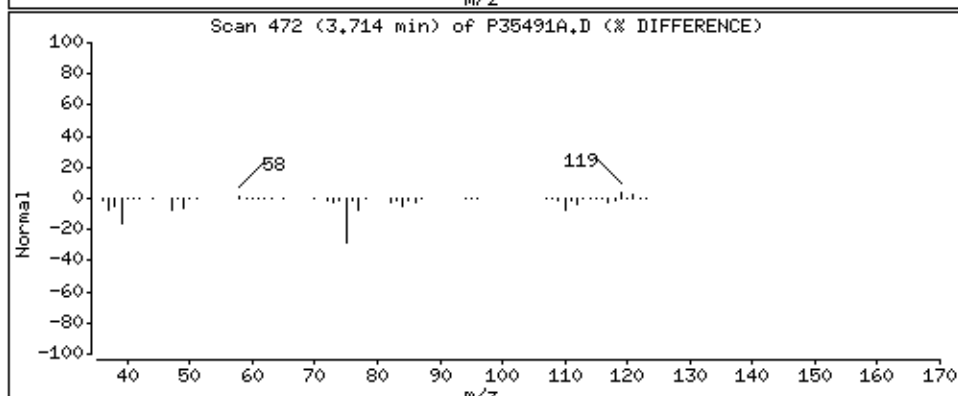
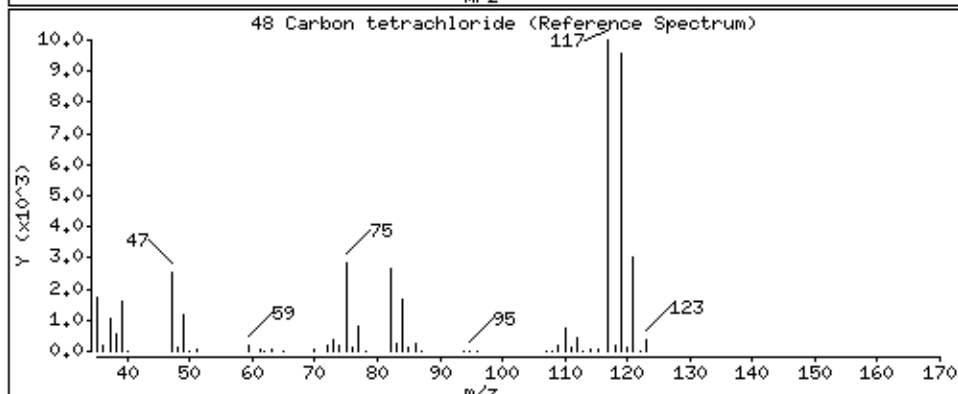
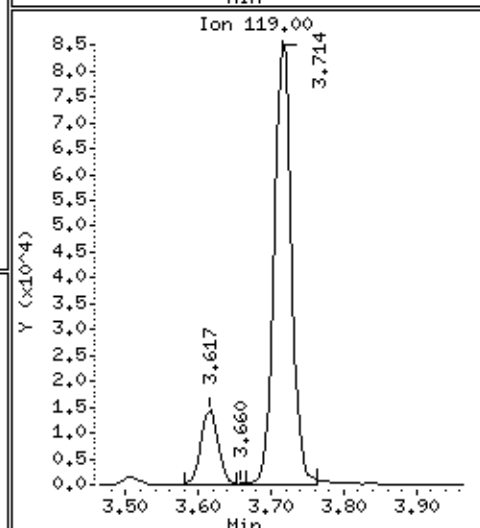
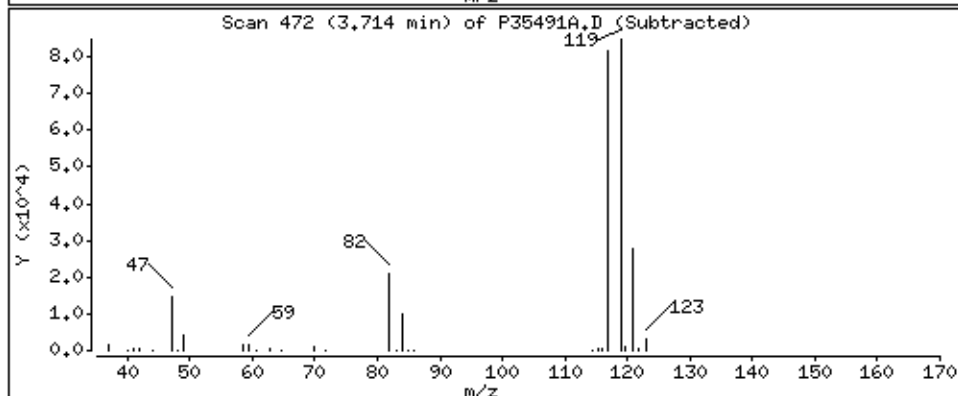
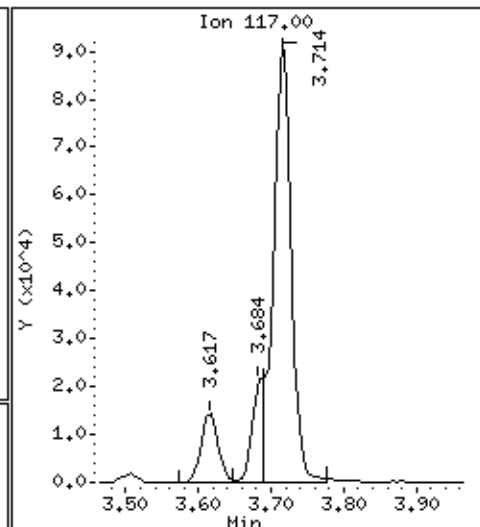
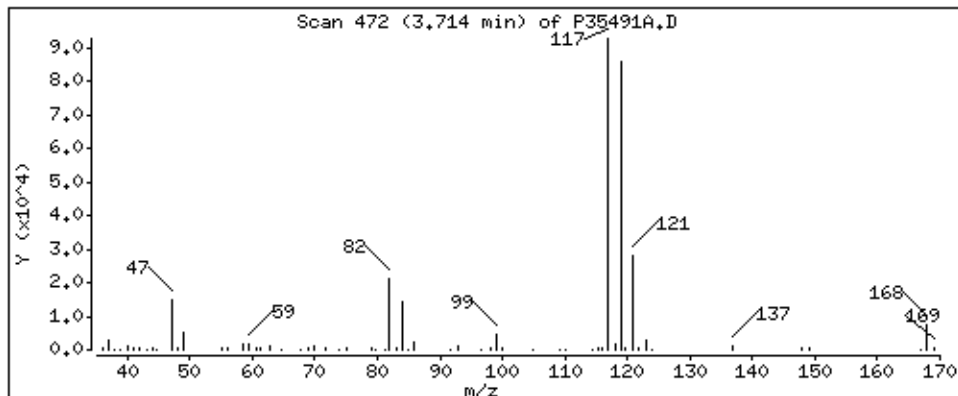
Review Code:



48 Carbon tetrachloride

Concentration: 44,7 ug/L

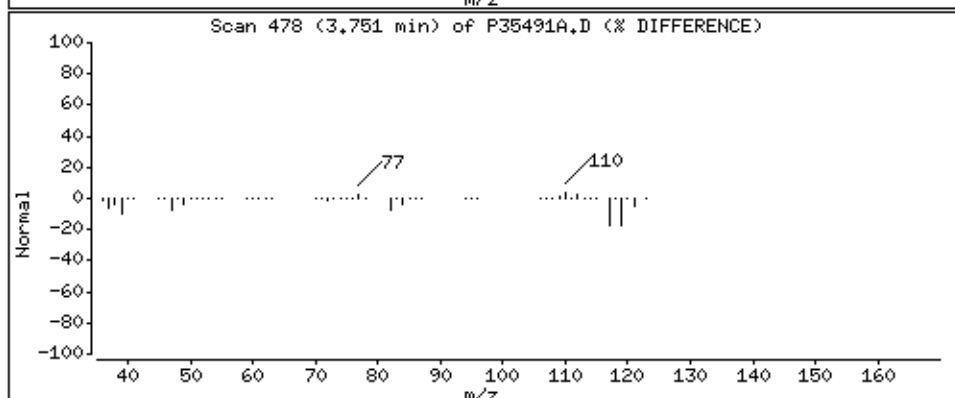
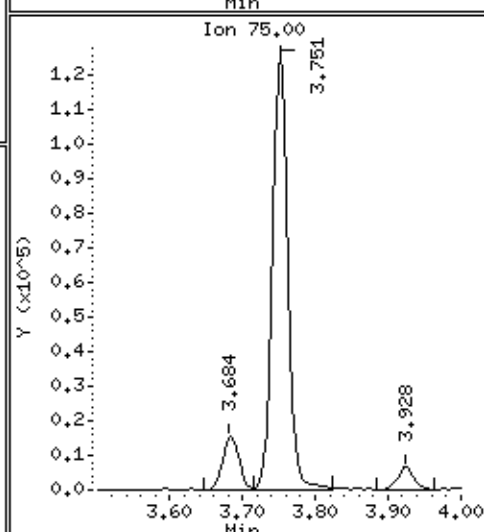
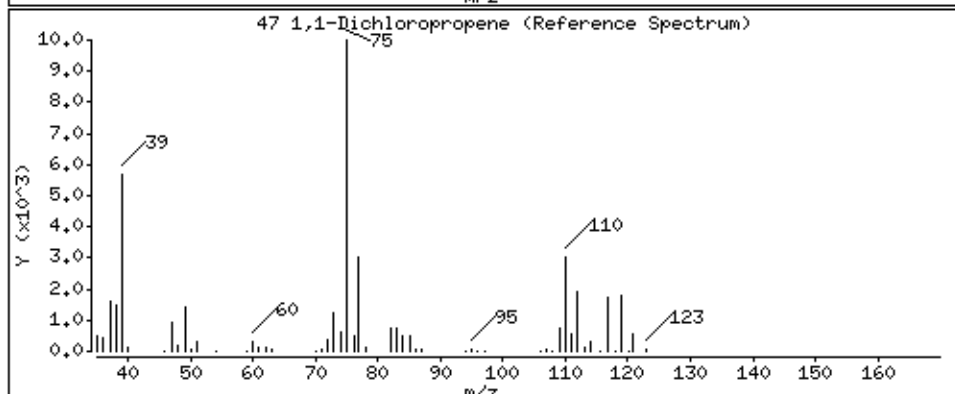
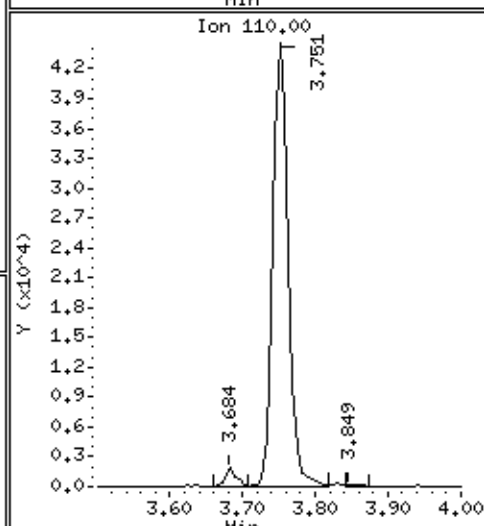
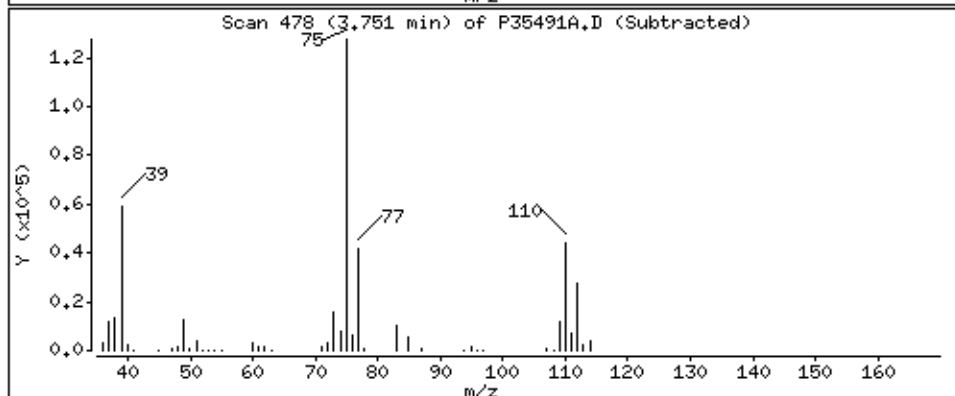
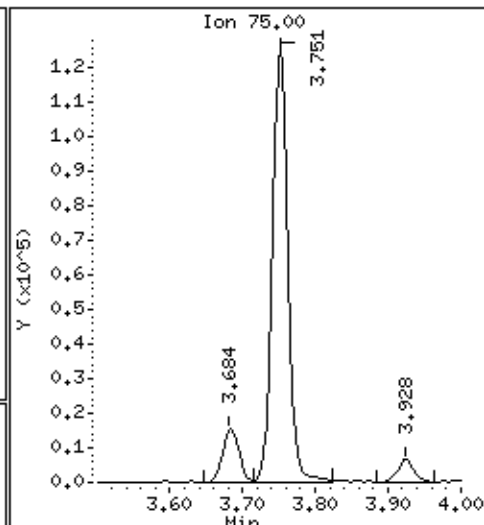
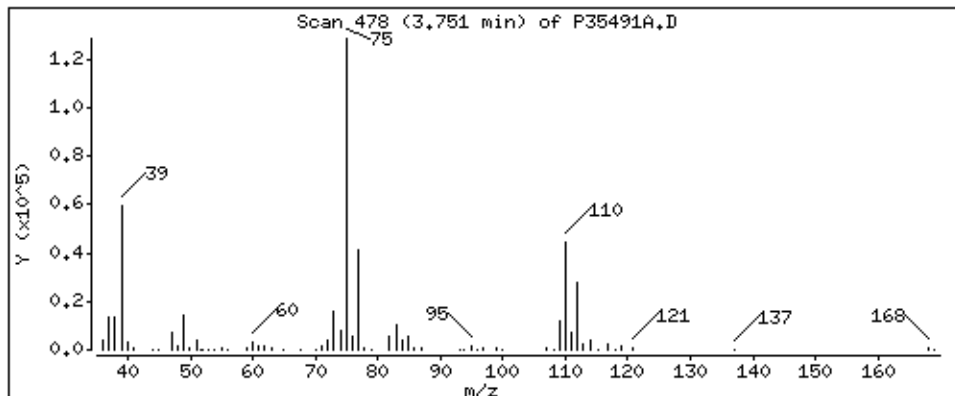
Review Code:



47 1,1-Dichloropropene

Concentration: 42.7 ug/L

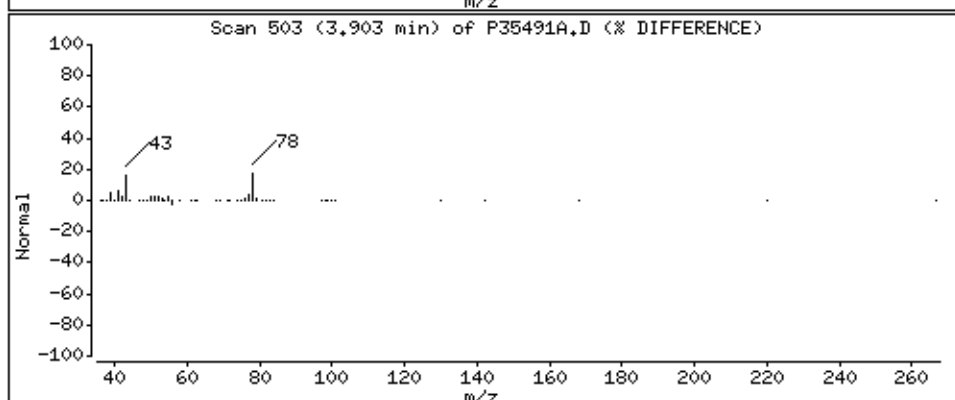
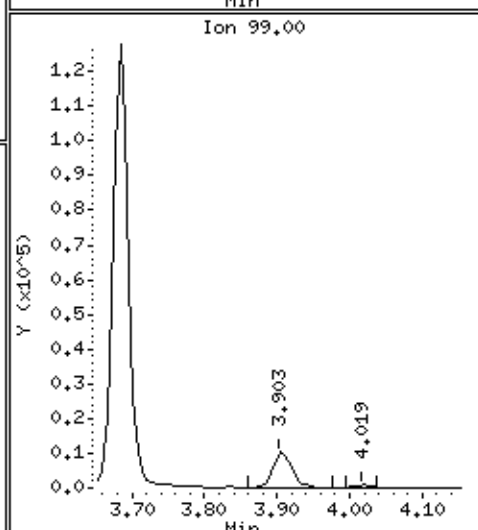
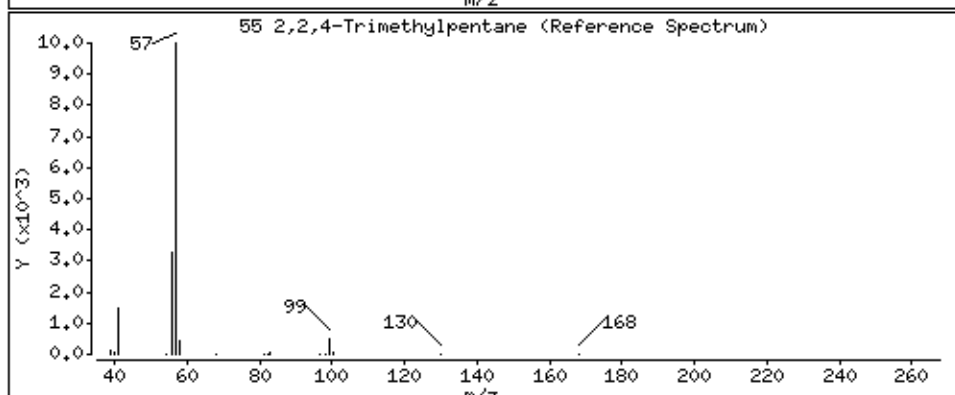
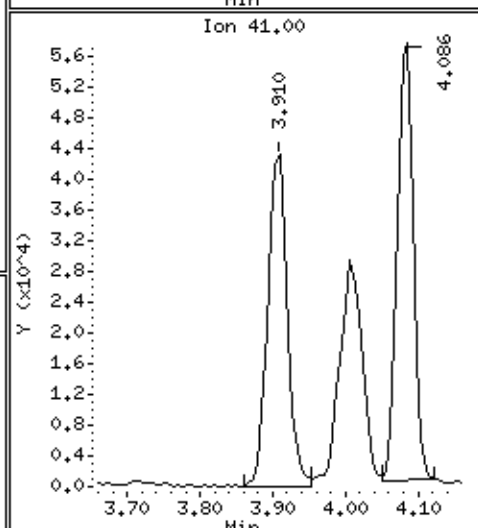
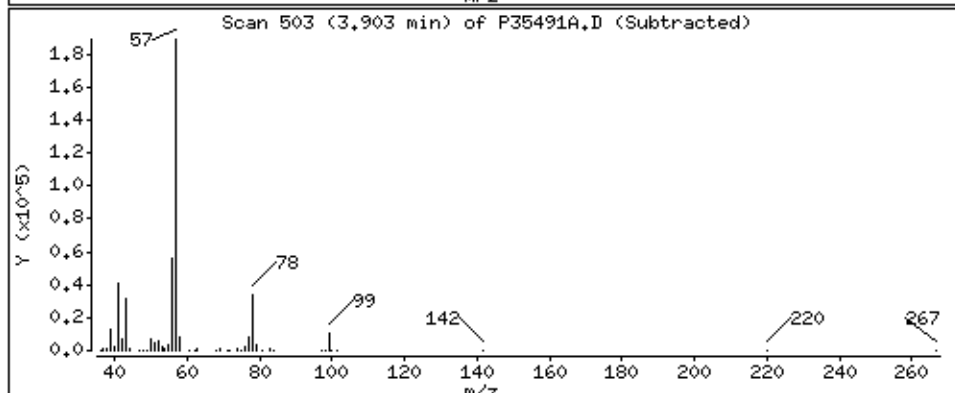
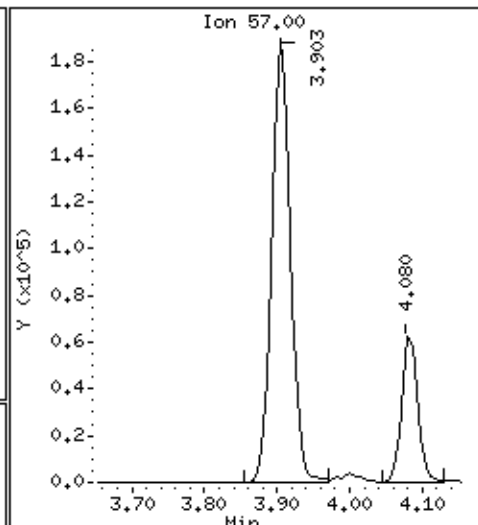
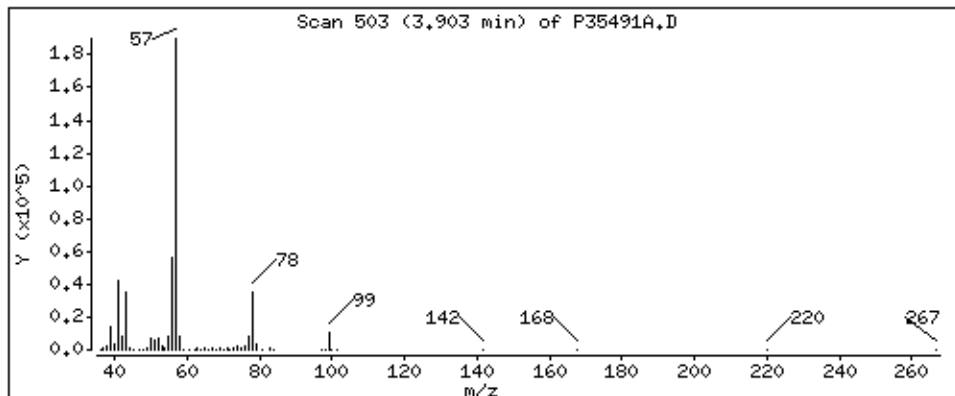
Review Code:



55 2,2,4-Trimethylpentane

Concentration: 39,0 ug/L

Review Code:

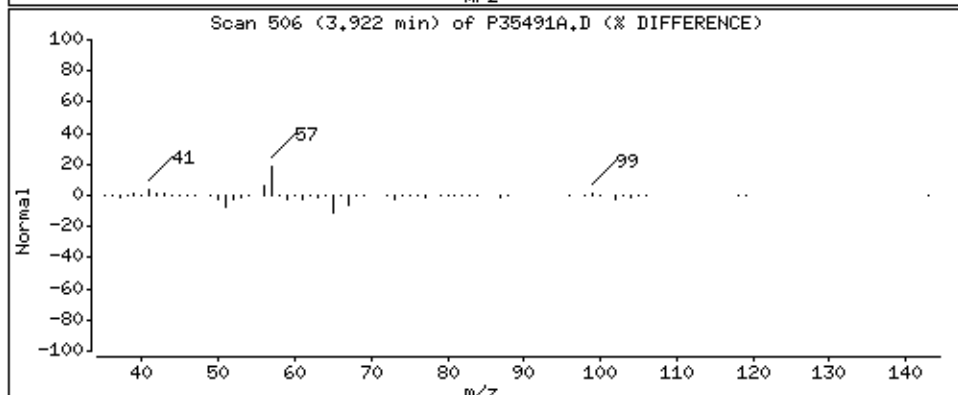
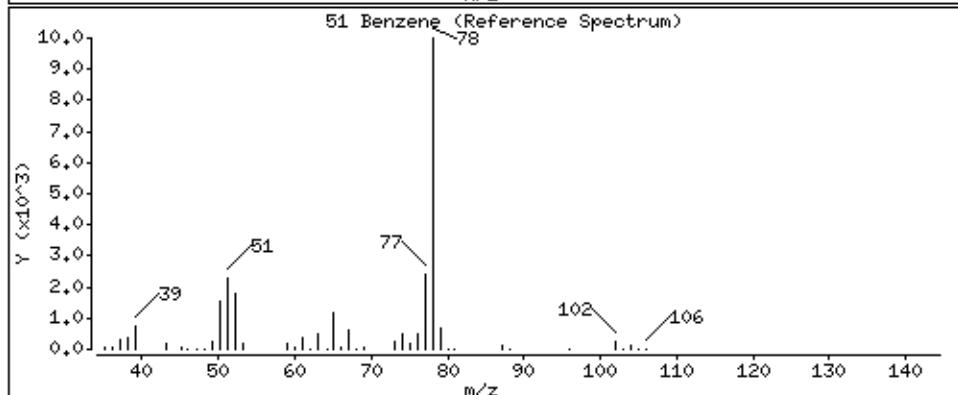
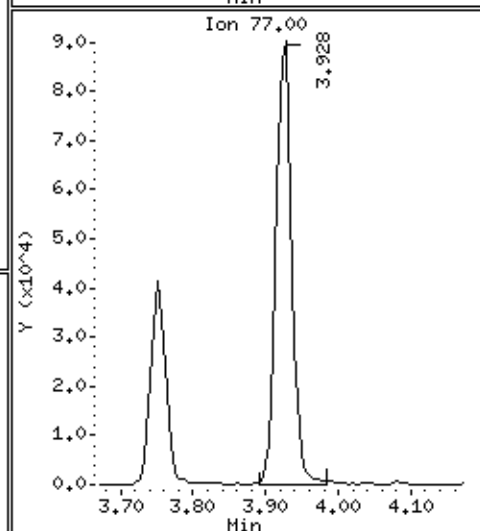
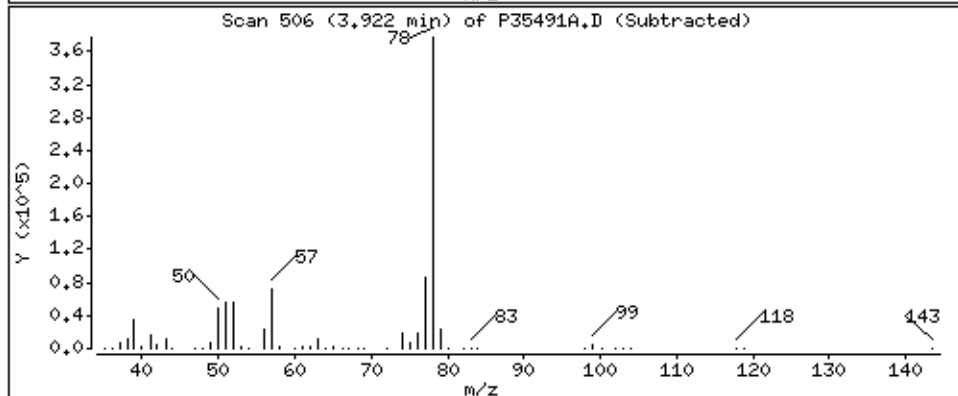
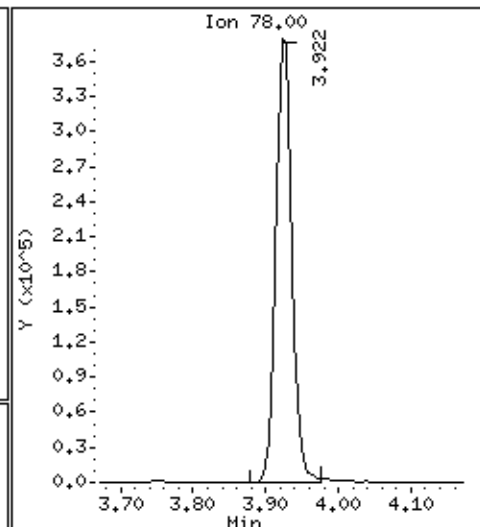
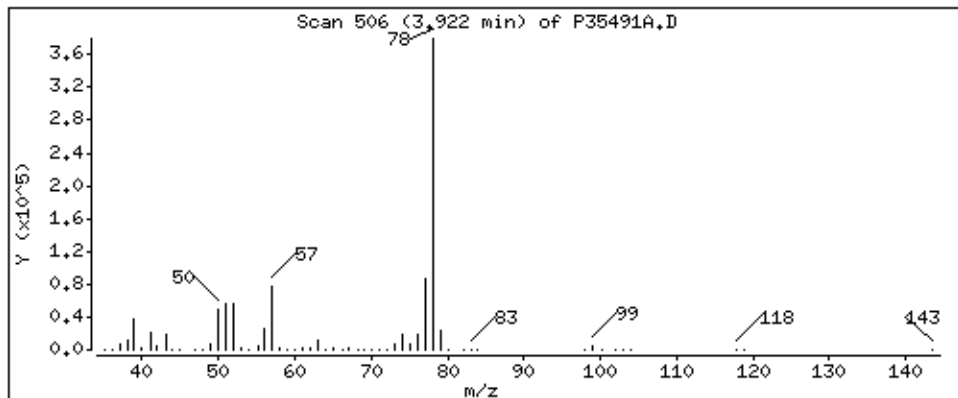




51 Benzene

Concentration: 49,8 ug/L

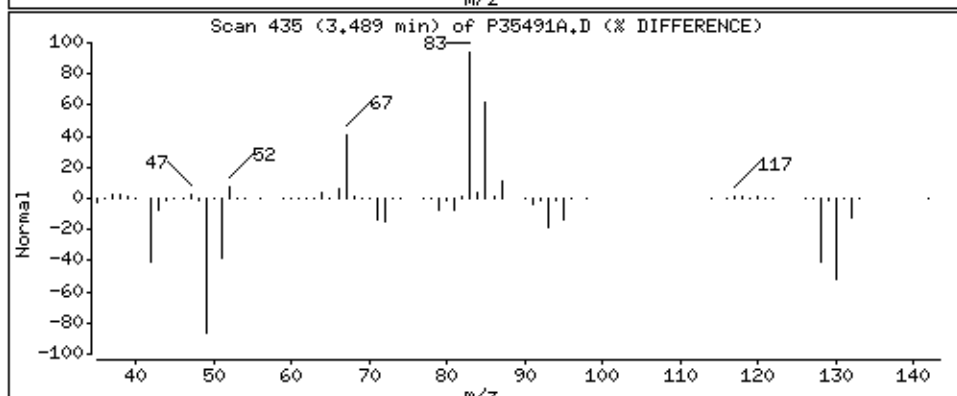
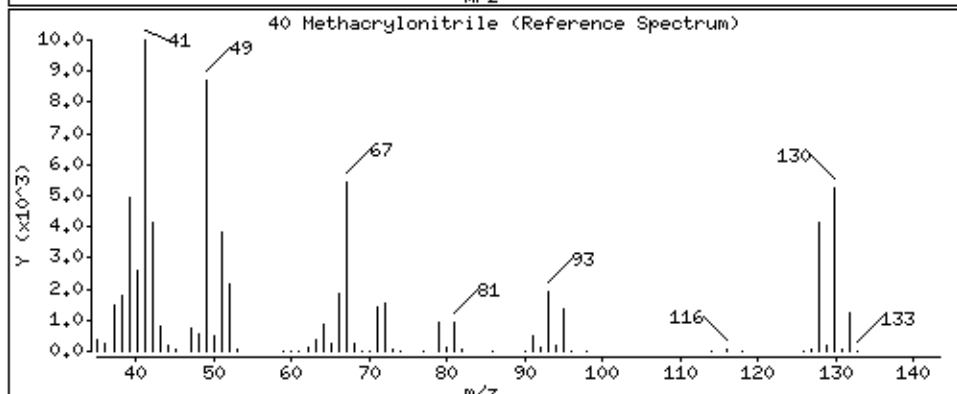
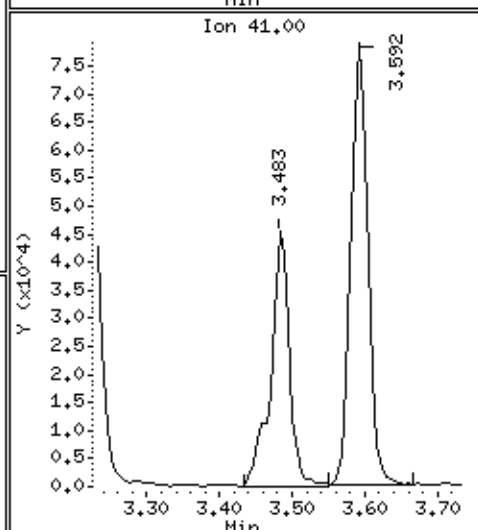
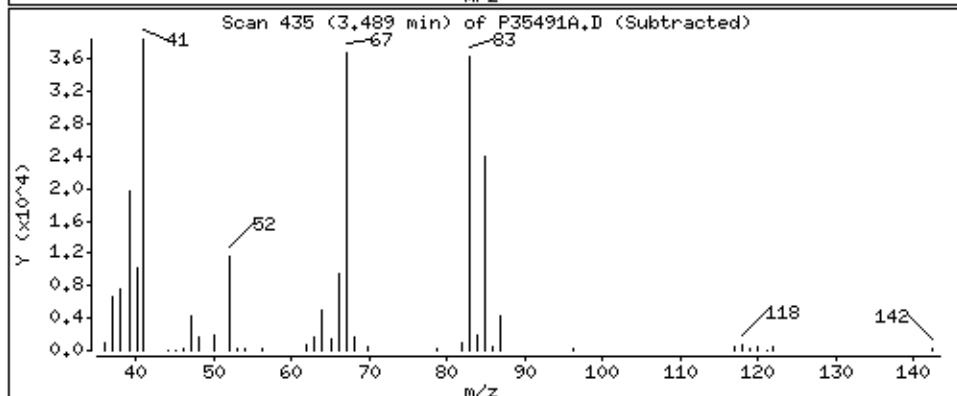
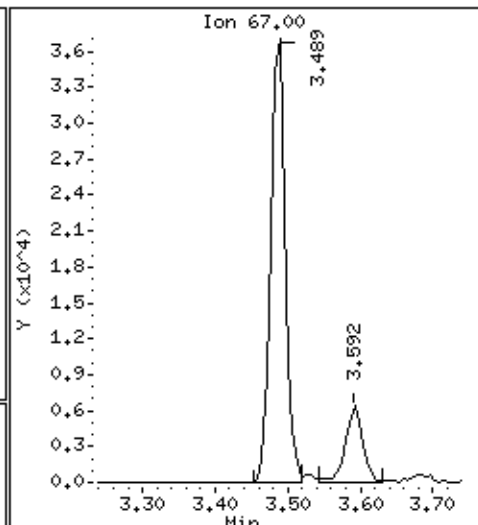
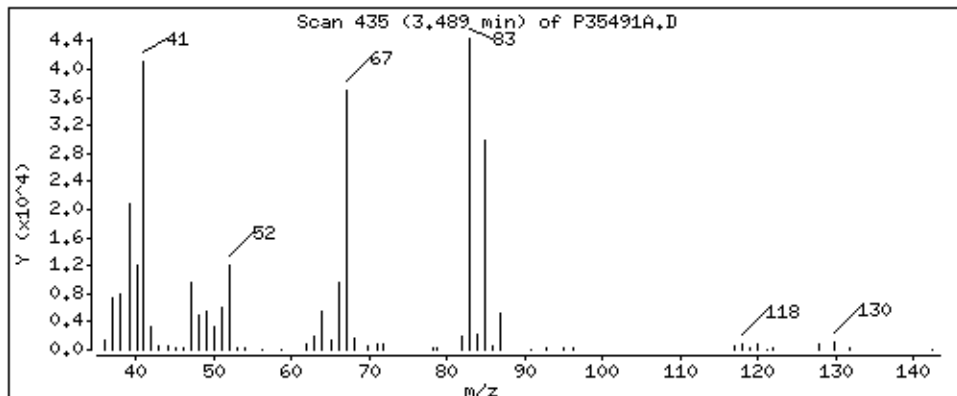
Review Code:



40 Methacrylonitrile

Concentration: 45,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

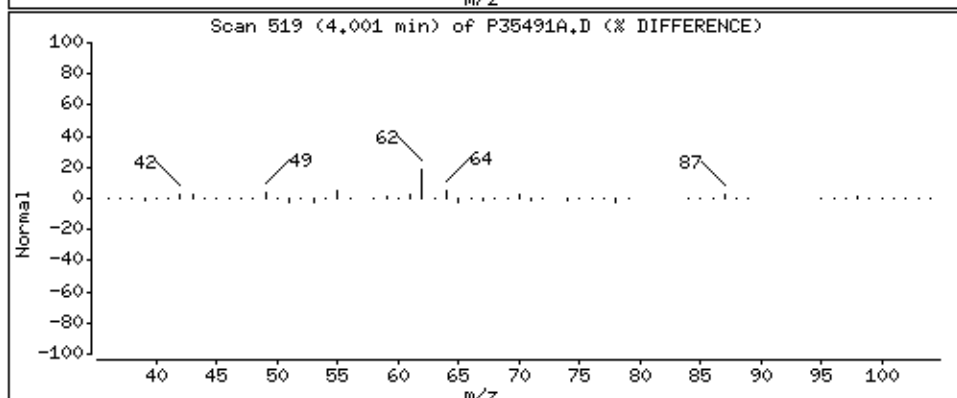
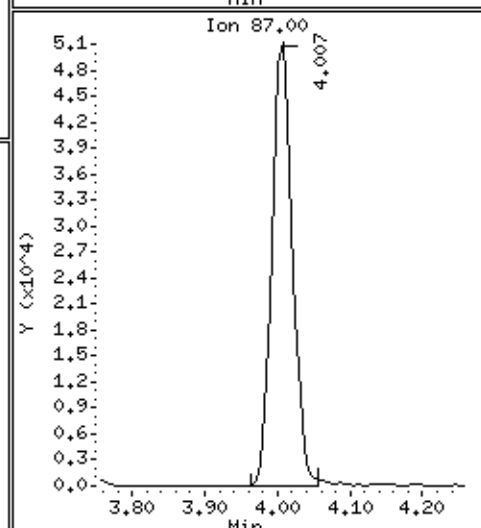
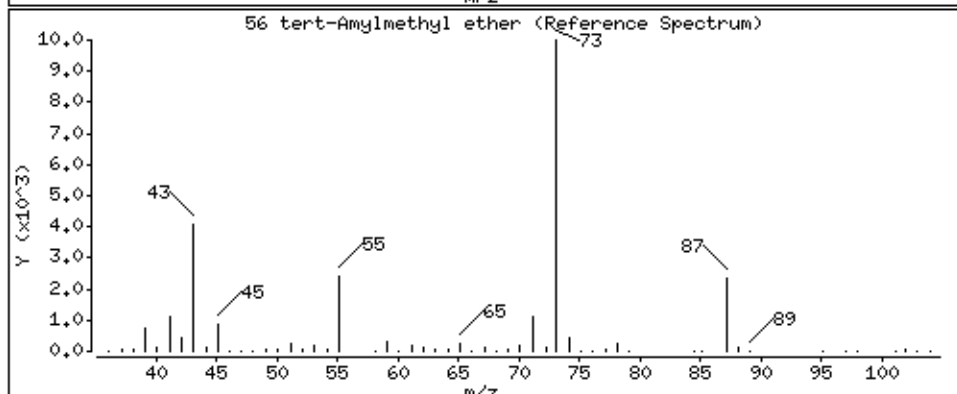
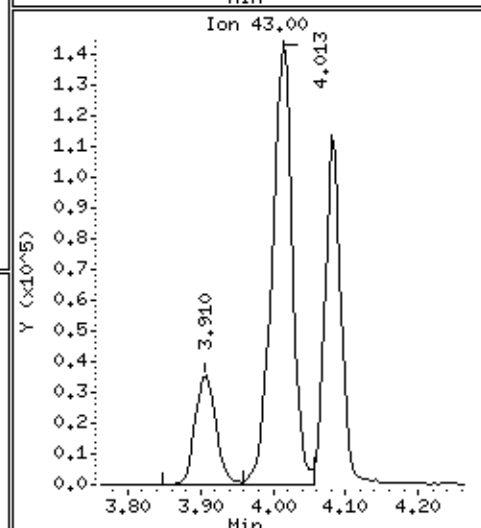
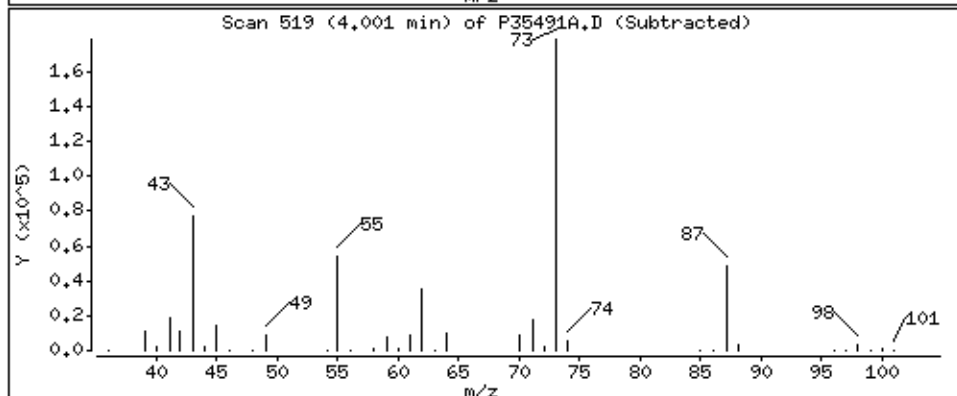
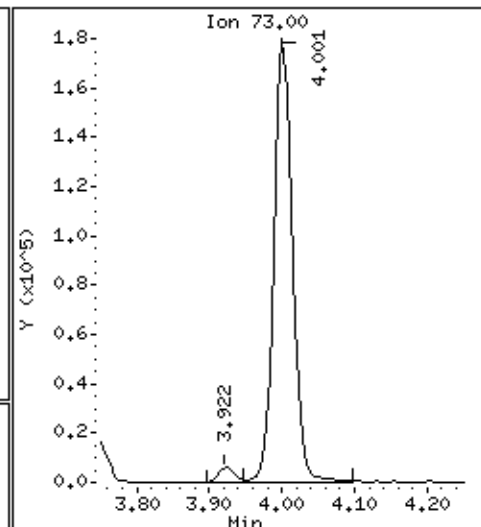
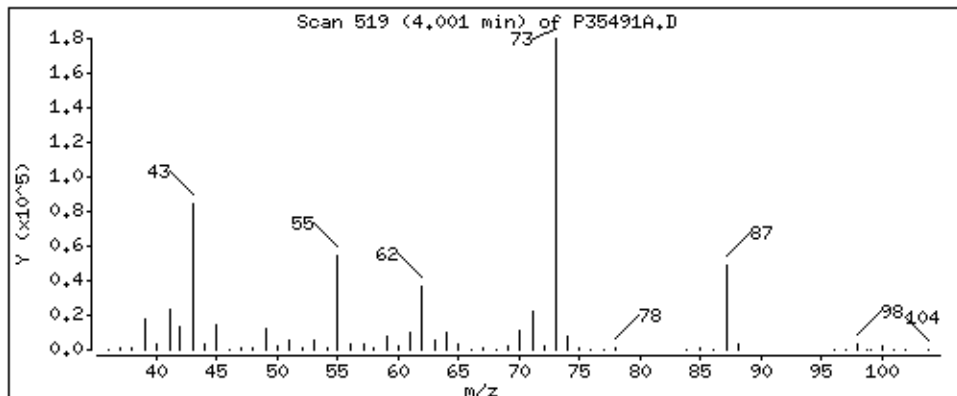
Column phase: RTX-624

Column diameter: 0,18

56 tert-Amylmethyl ether

Concentration: 41.3 ug/L

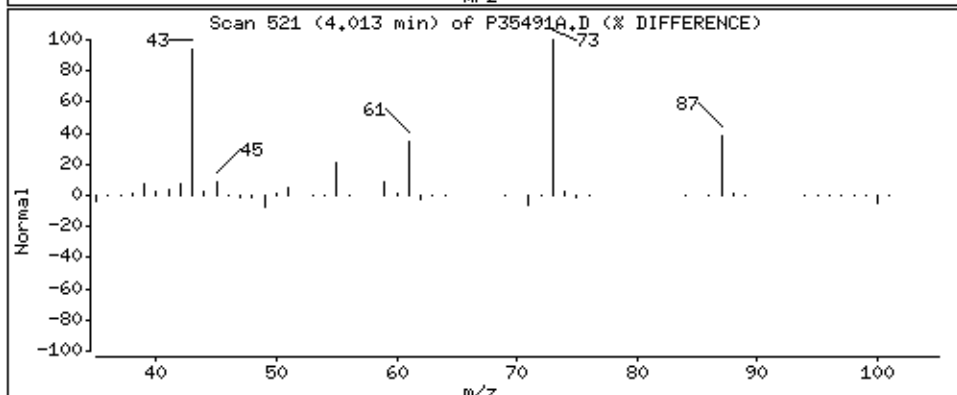
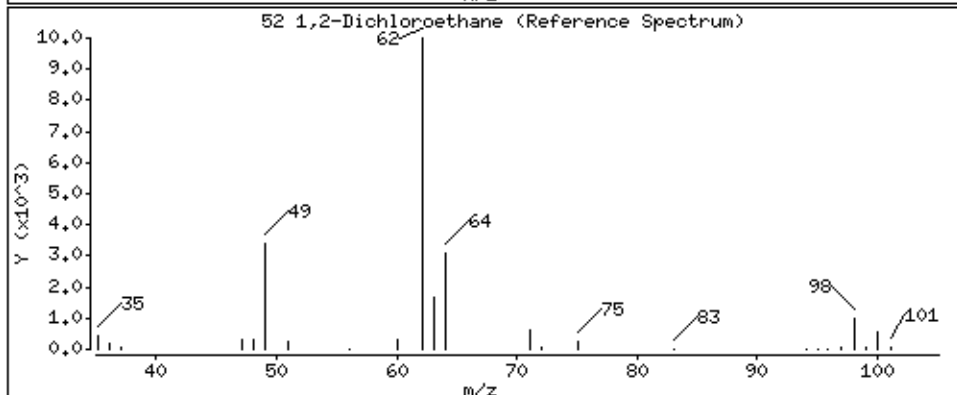
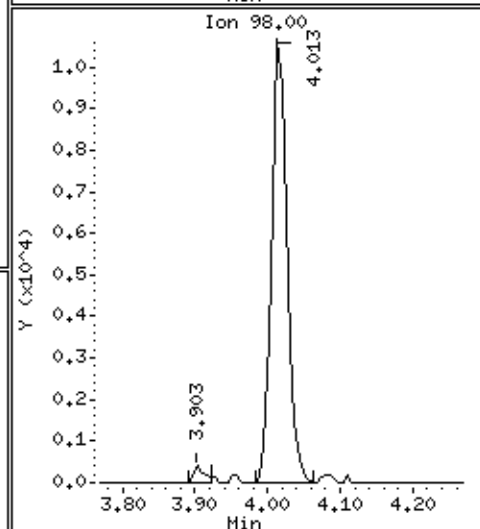
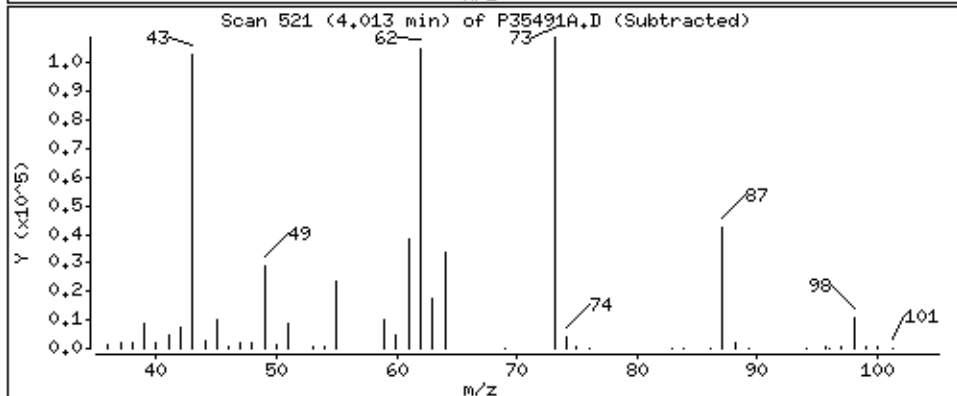
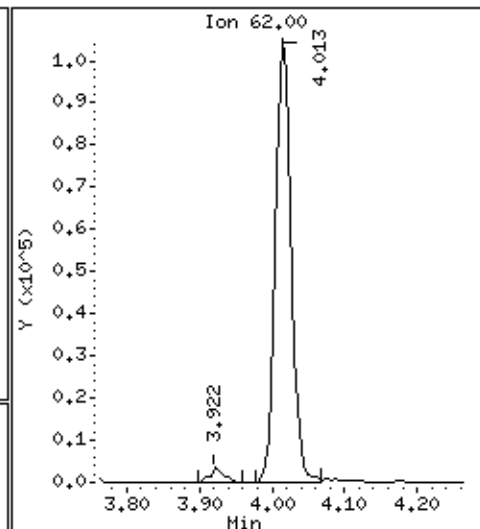
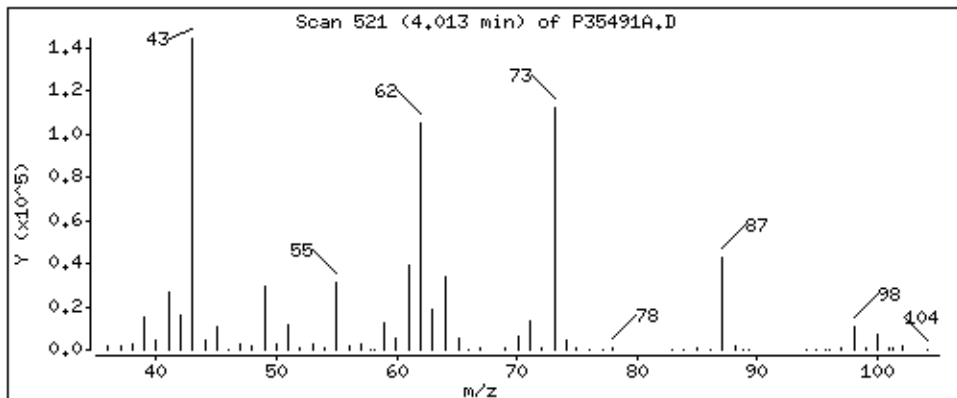
Review Code:



52 1,2-Dichloroethane

Concentration: 44,3 ug/L

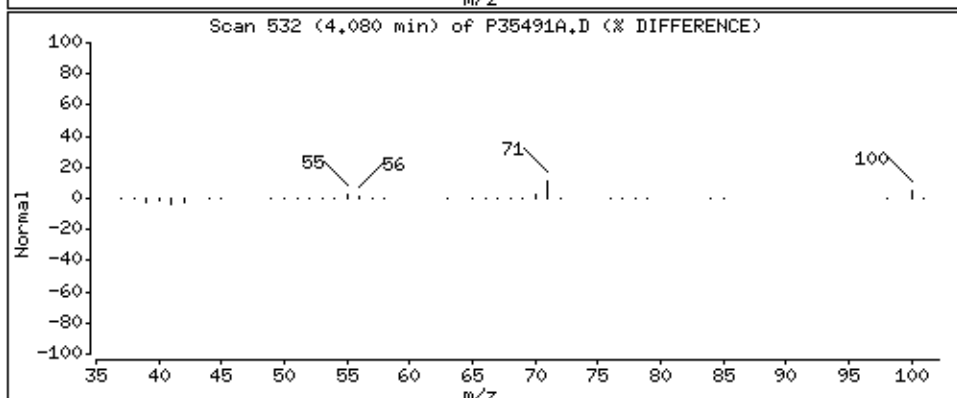
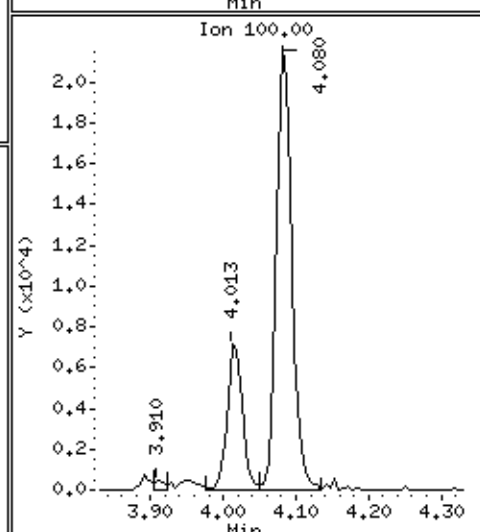
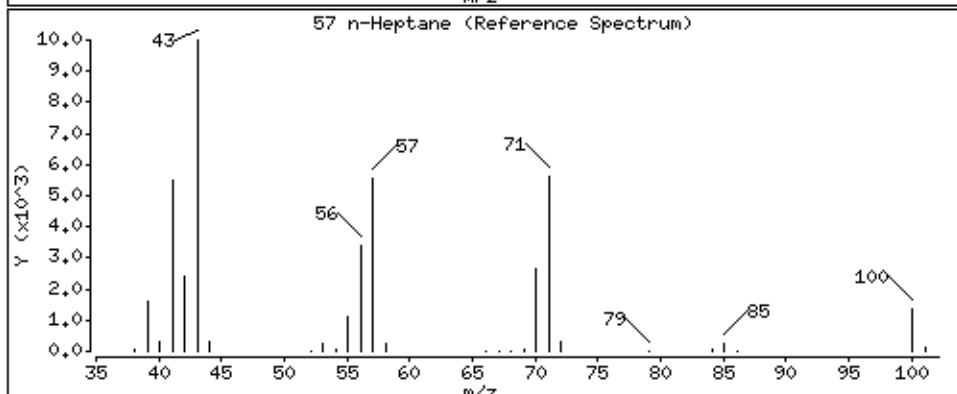
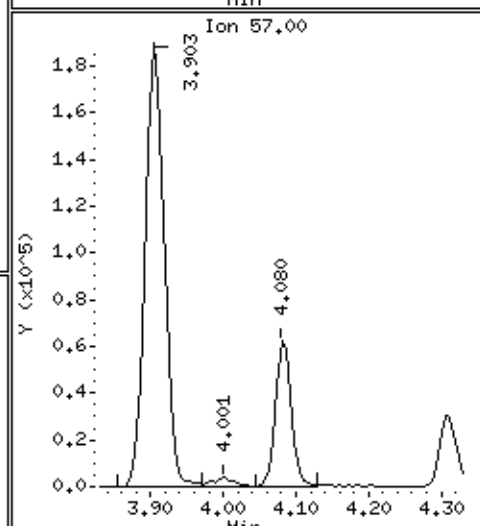
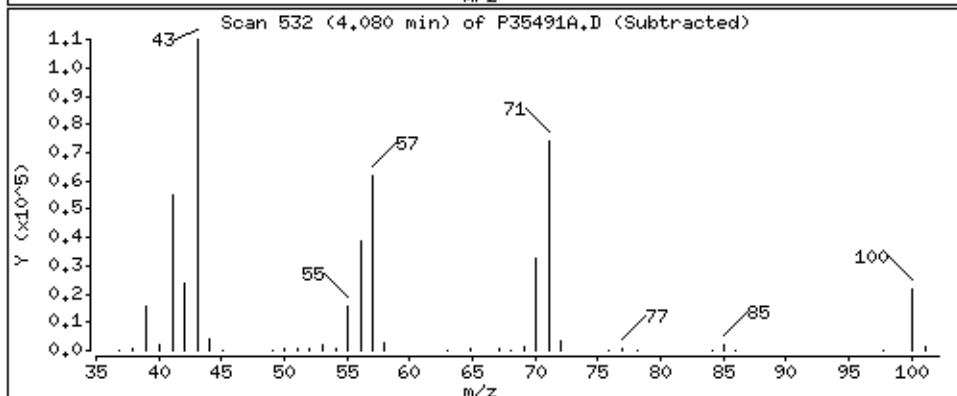
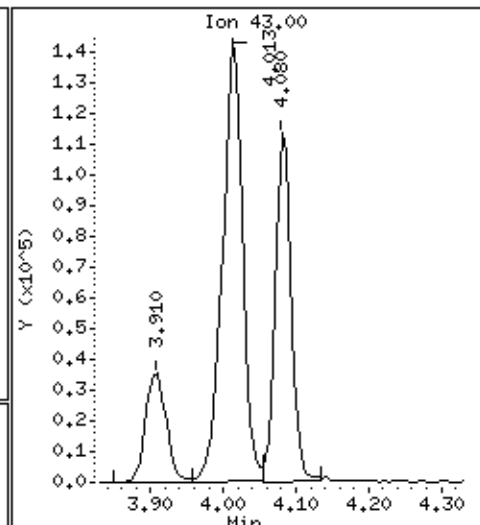
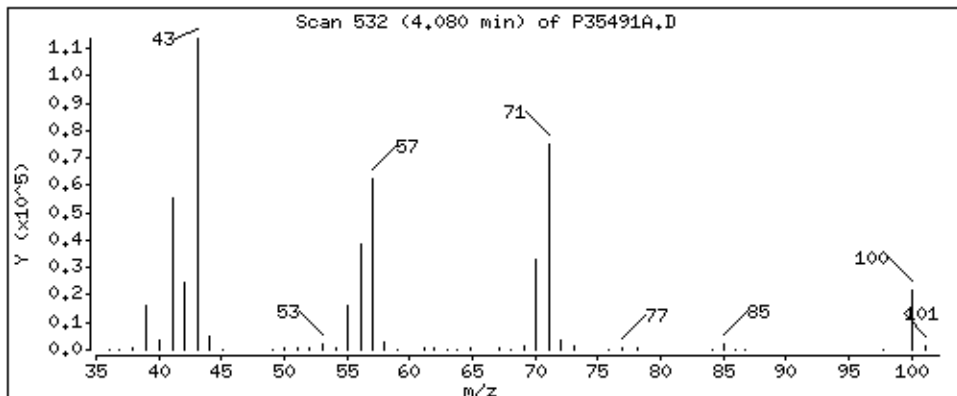
Review Code:



57 n-Heptane

Concentration: 34,9 ug/L

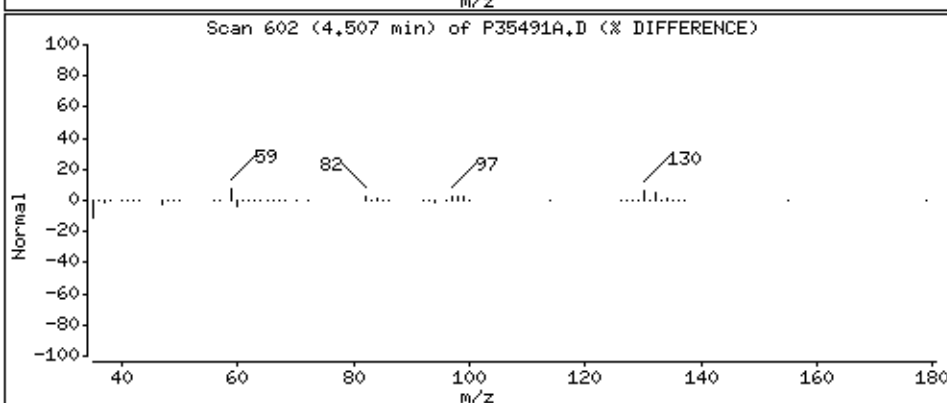
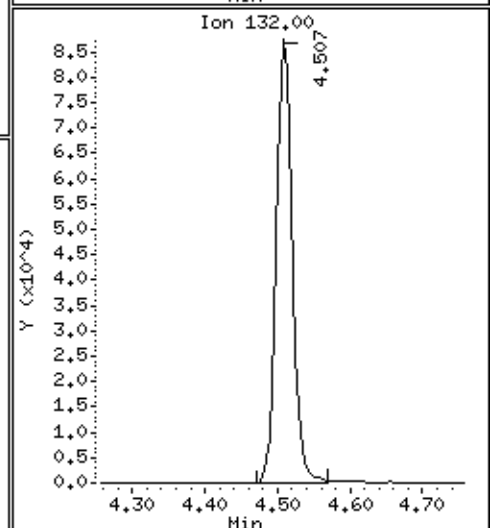
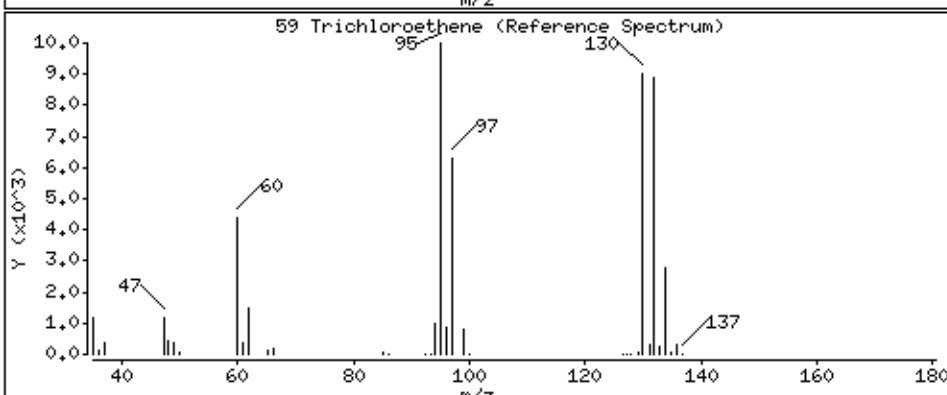
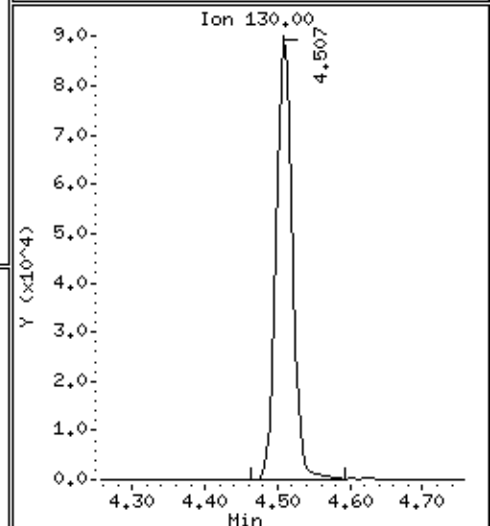
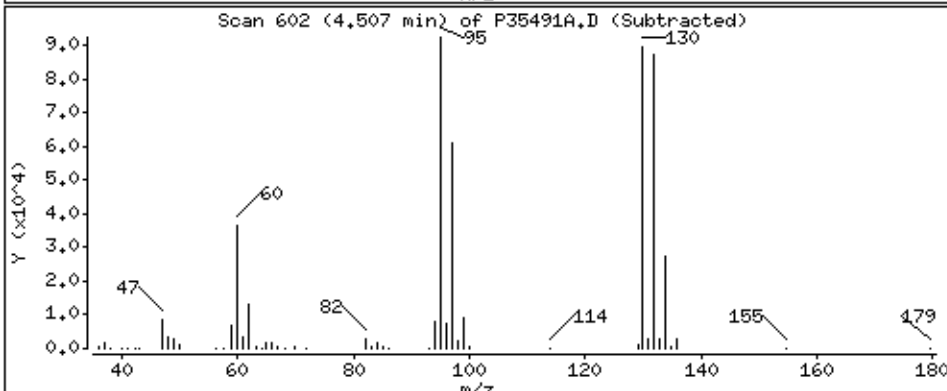
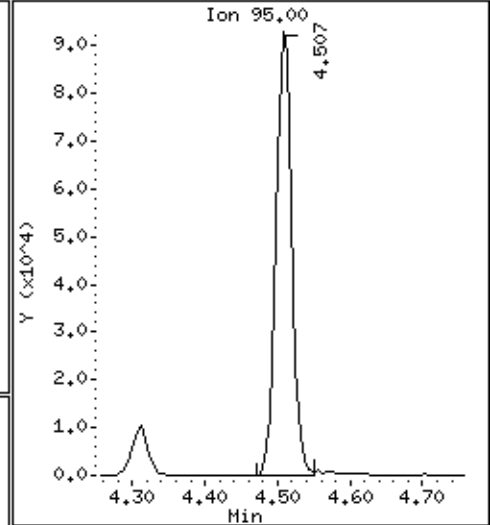
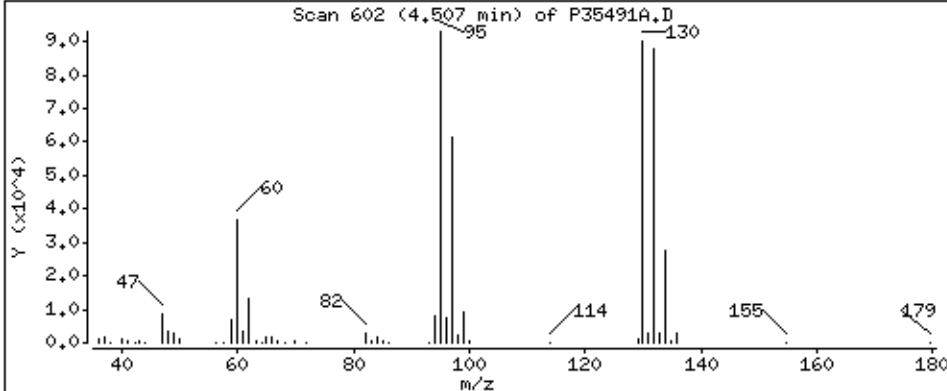
Review Code:



59 Trichloroethene

Concentration: 46,2 ug/L

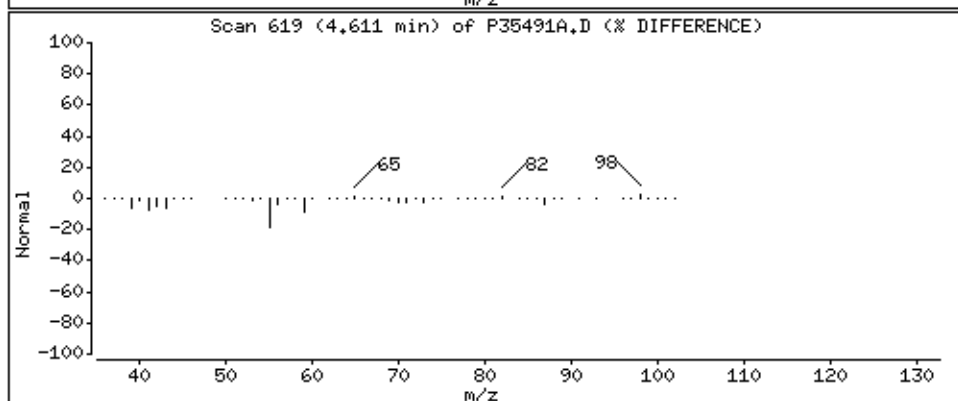
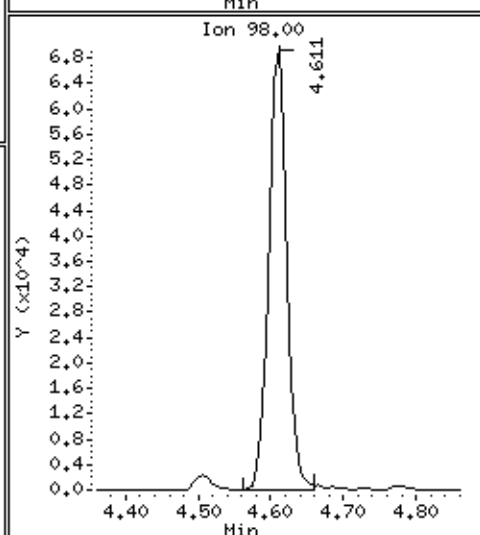
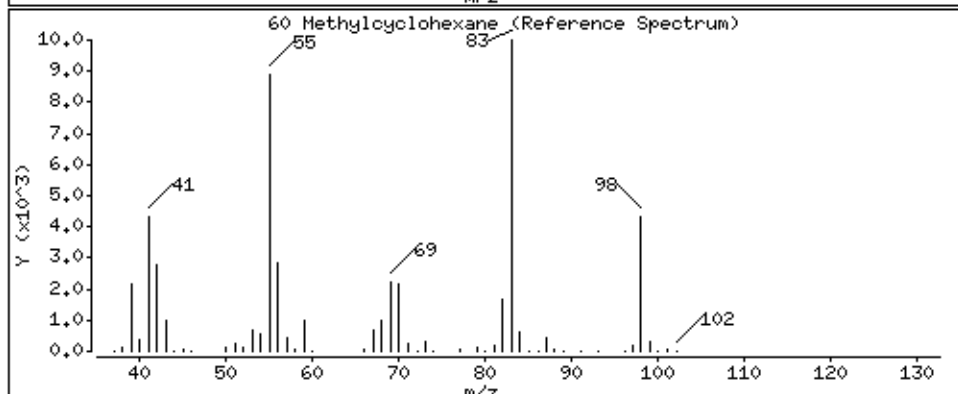
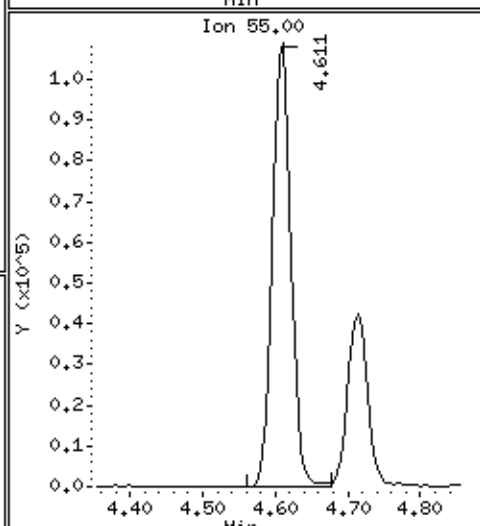
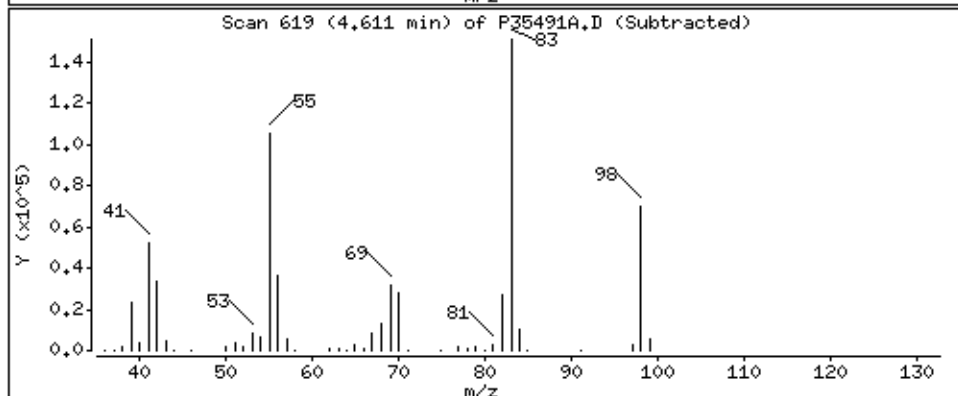
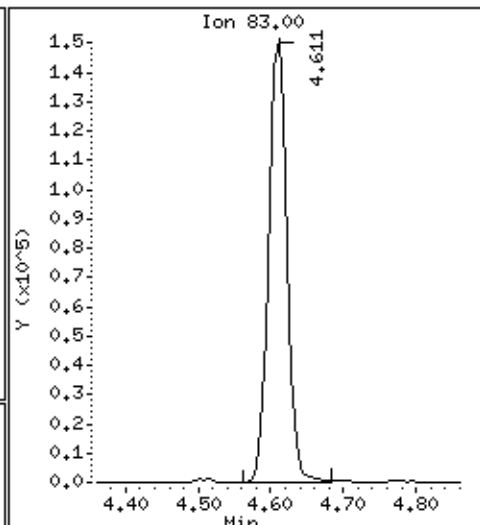
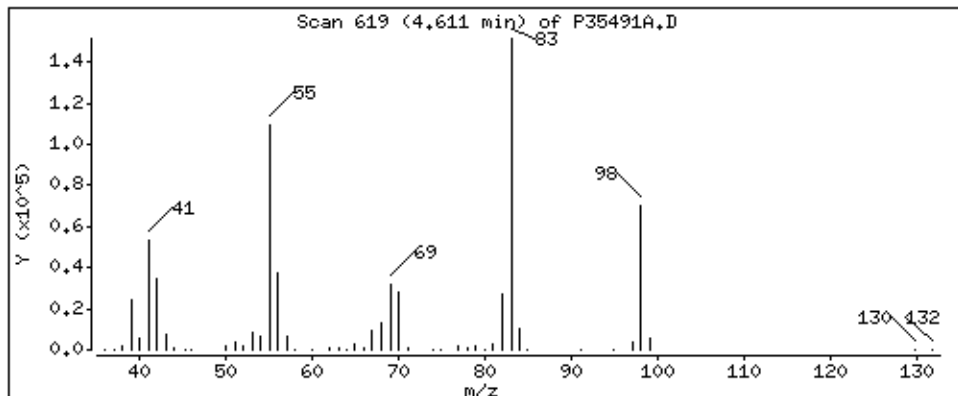
Review Code:



60 Methylcyclohexane

Concentration: 43,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

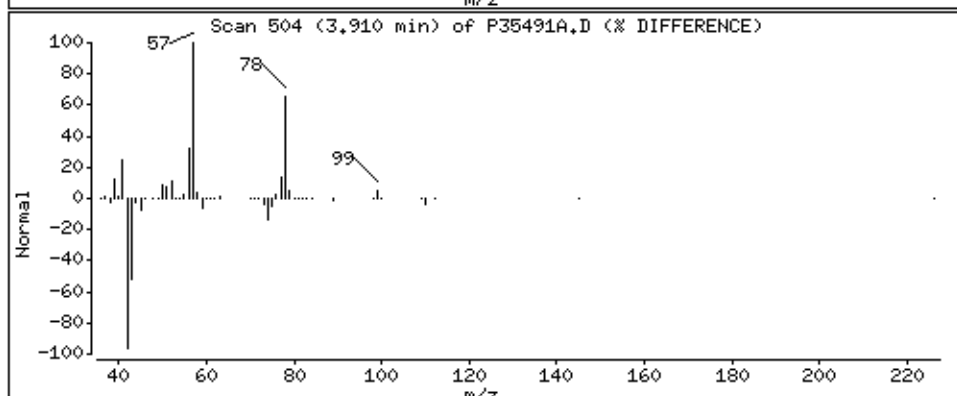
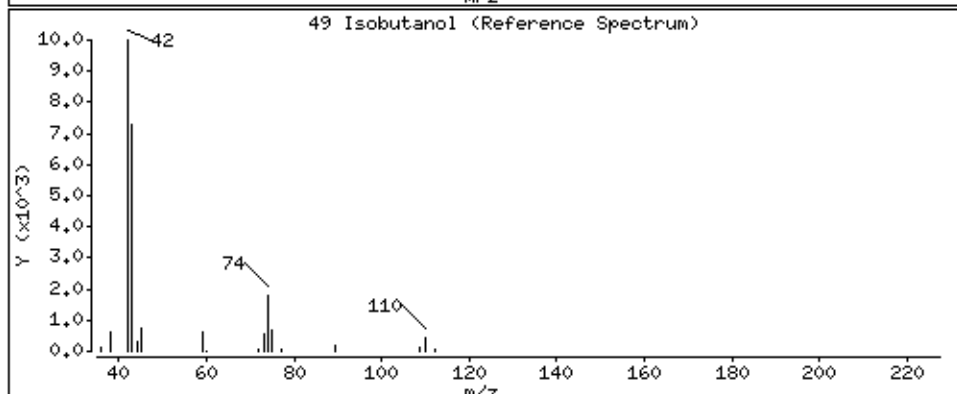
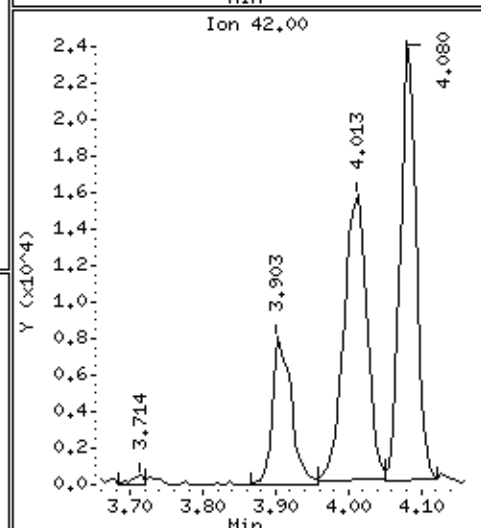
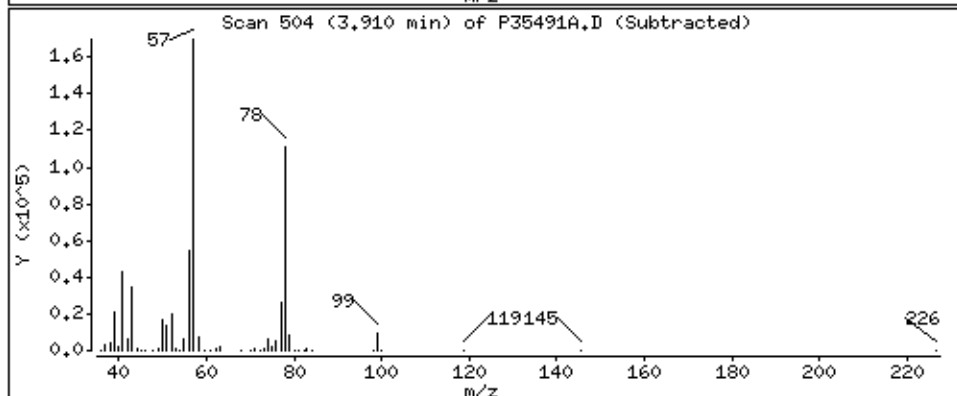
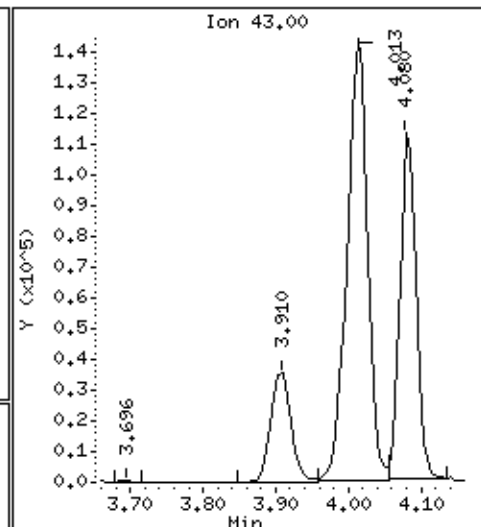
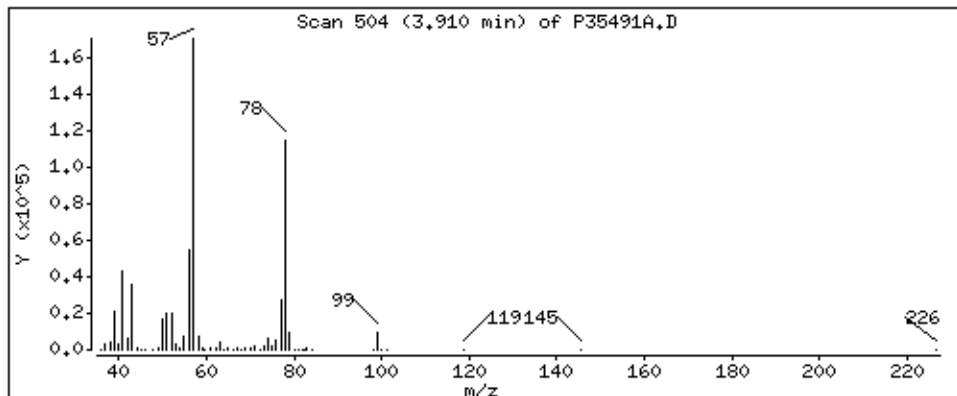
Column phase: RTX-624

Column diameter: 0,18

49 Isobutanol

Concentration: 179 ug/L

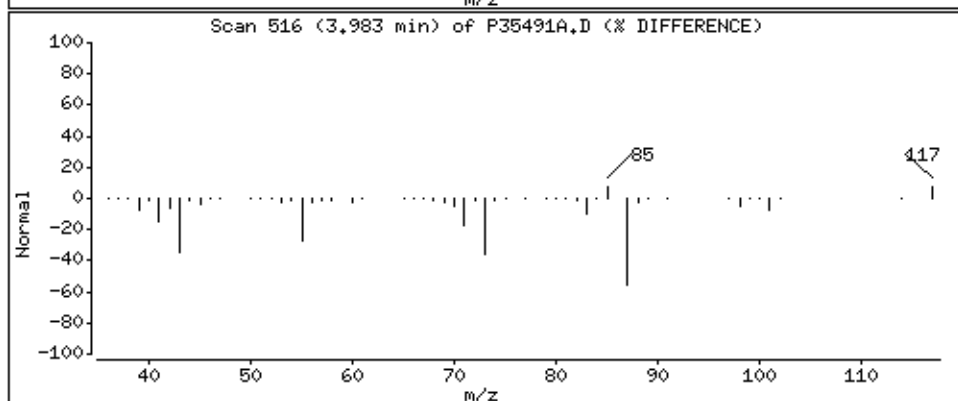
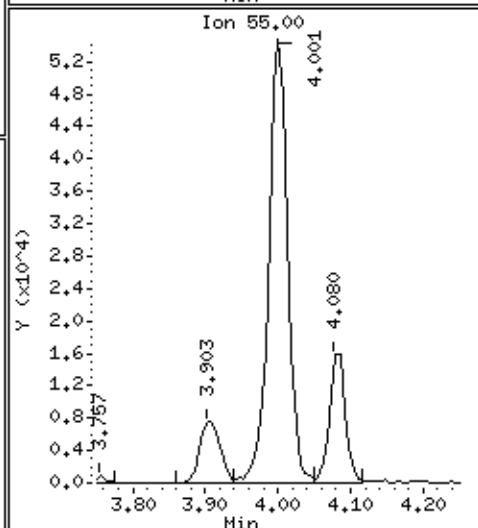
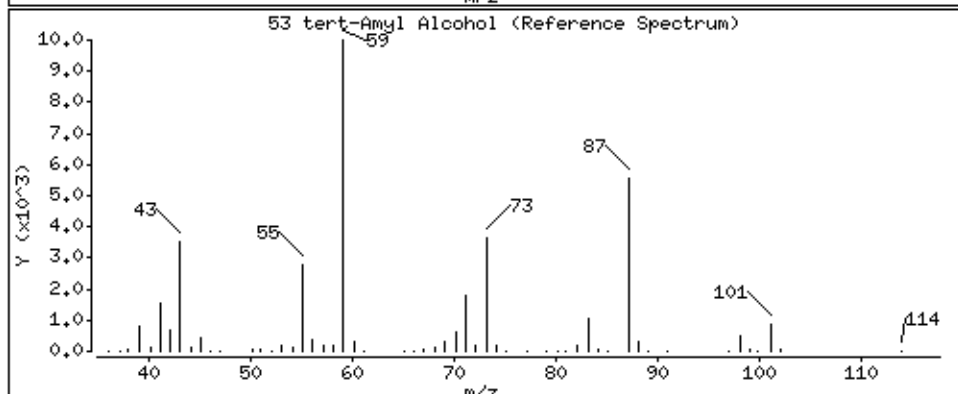
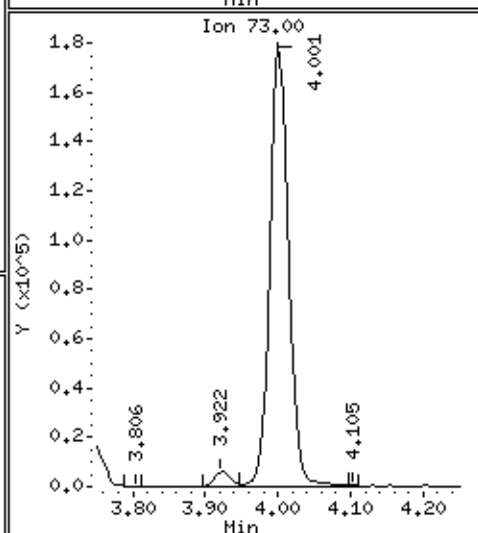
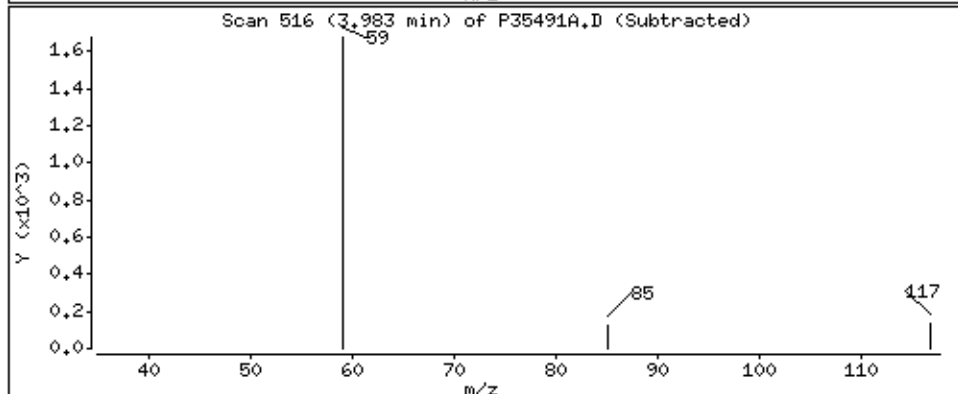
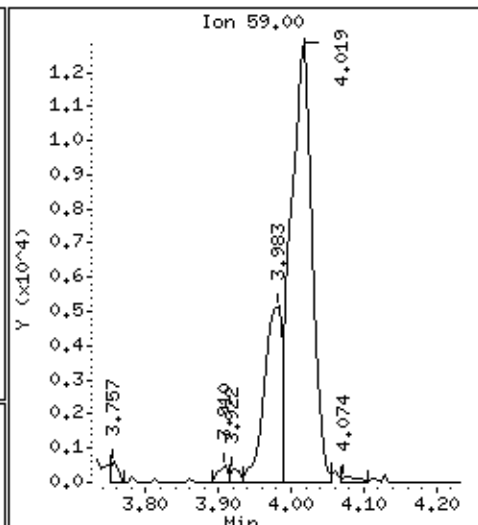
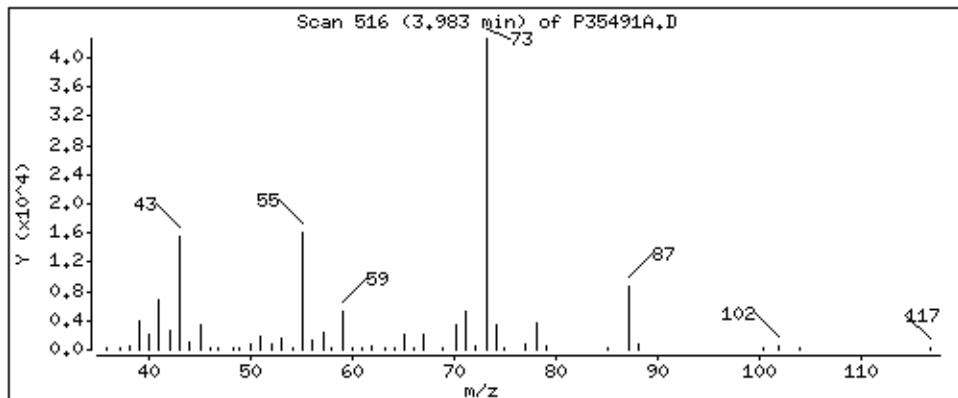
Review Code:





53 tert-Amyl Alcohol

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

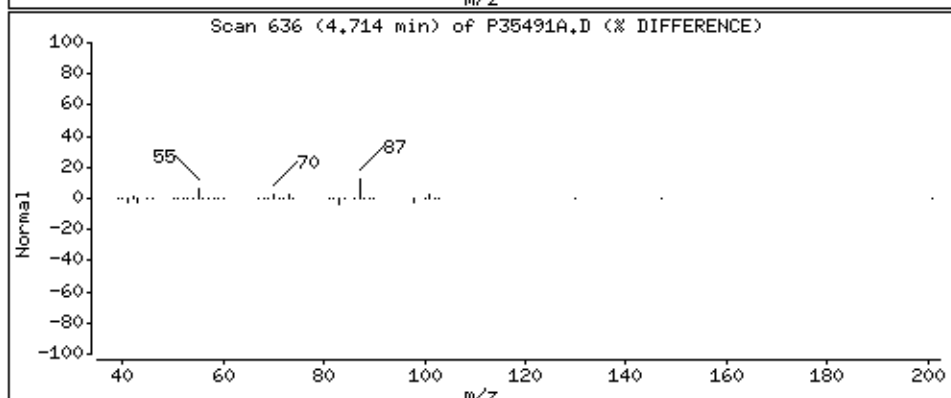
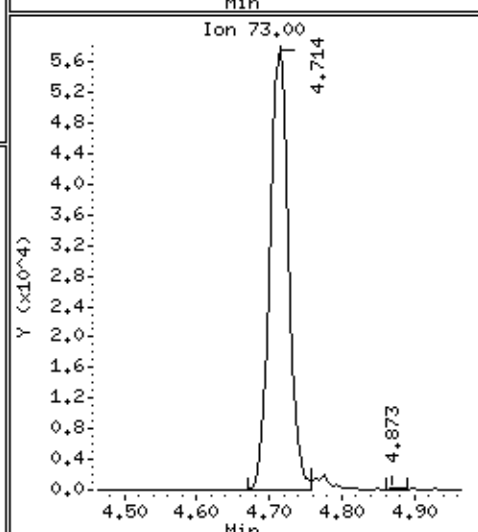
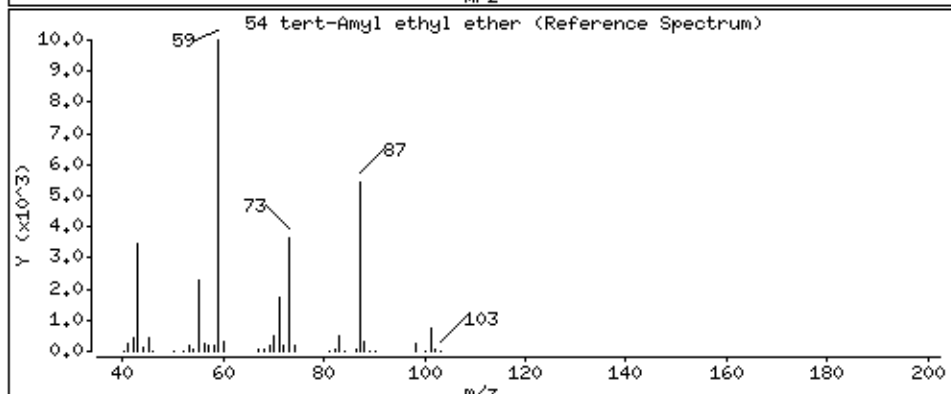
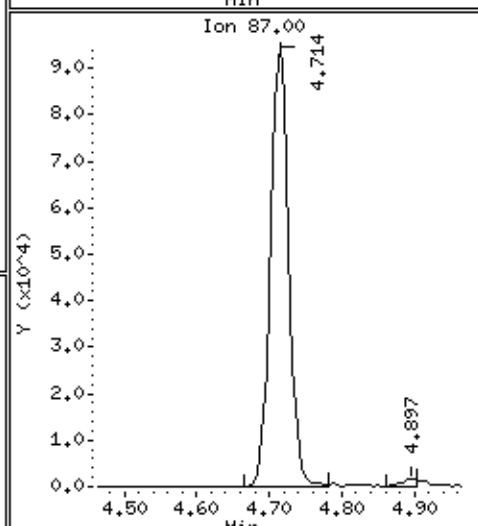
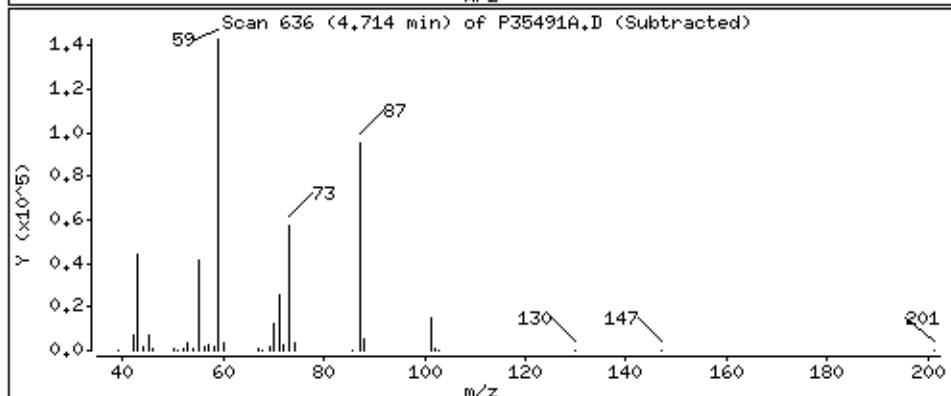
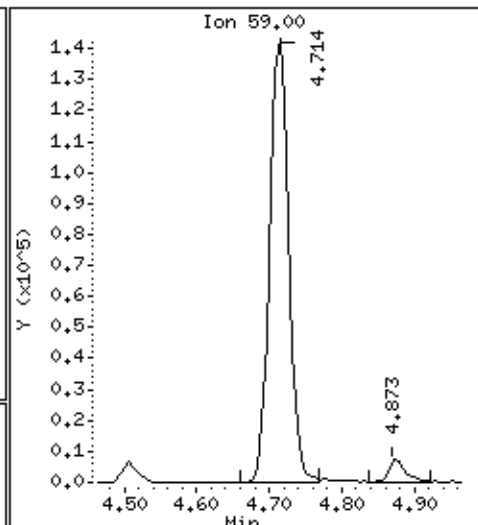
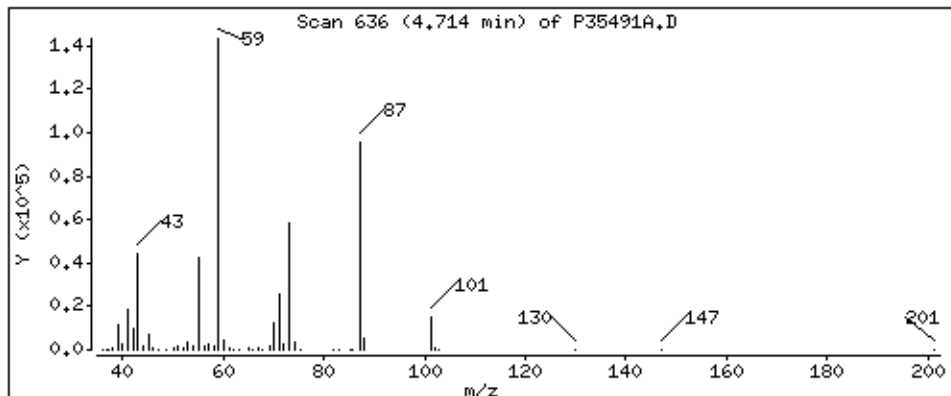
Column phase: RTX-624

Column diameter: 0,18

54 tert-Amyl ethyl ether

Concentration: 38,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

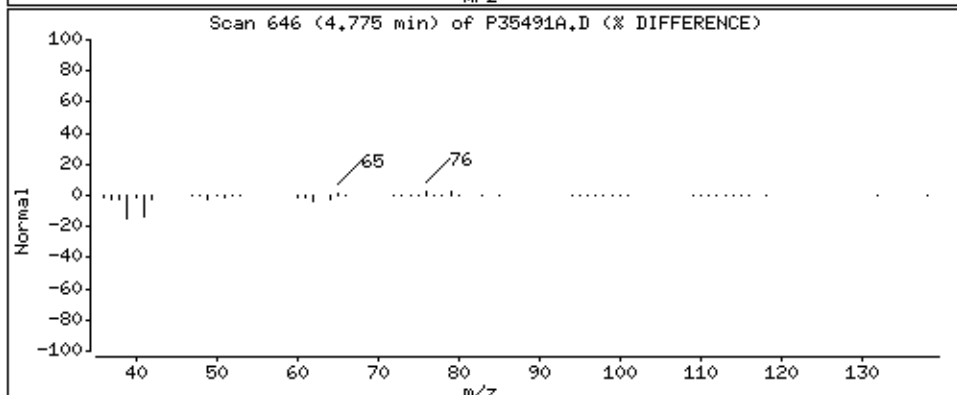
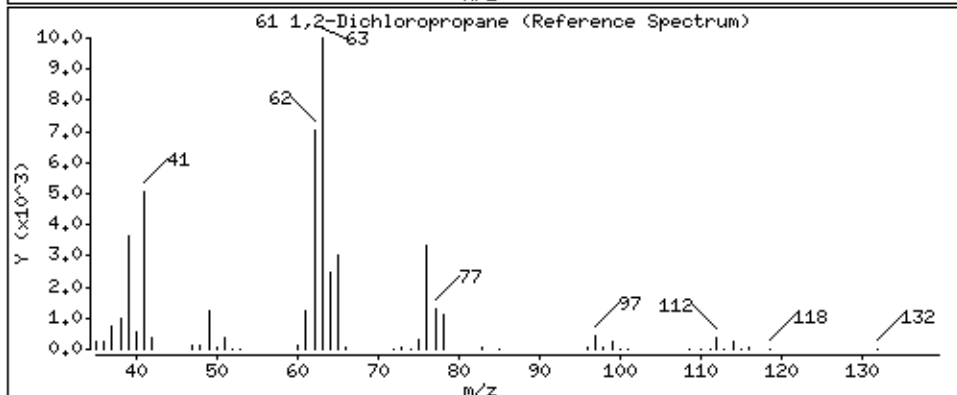
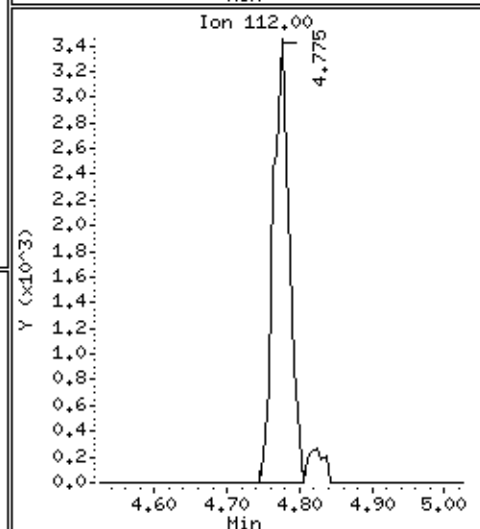
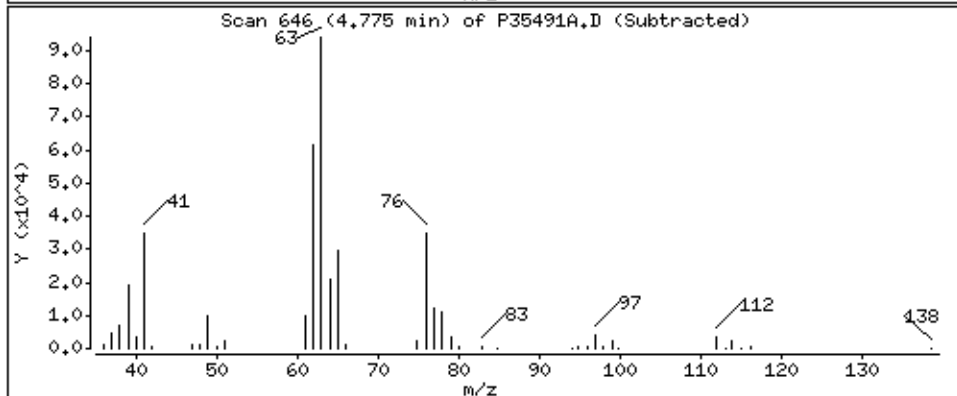
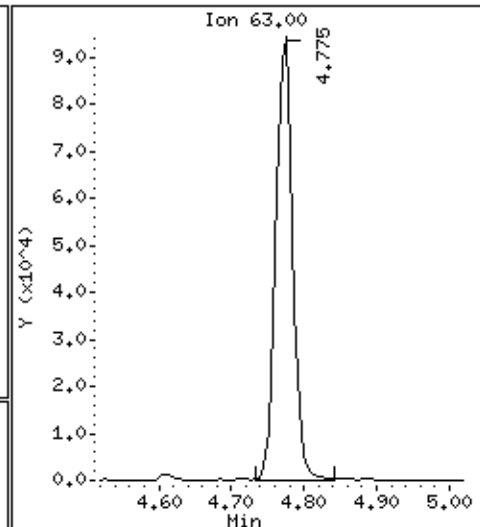
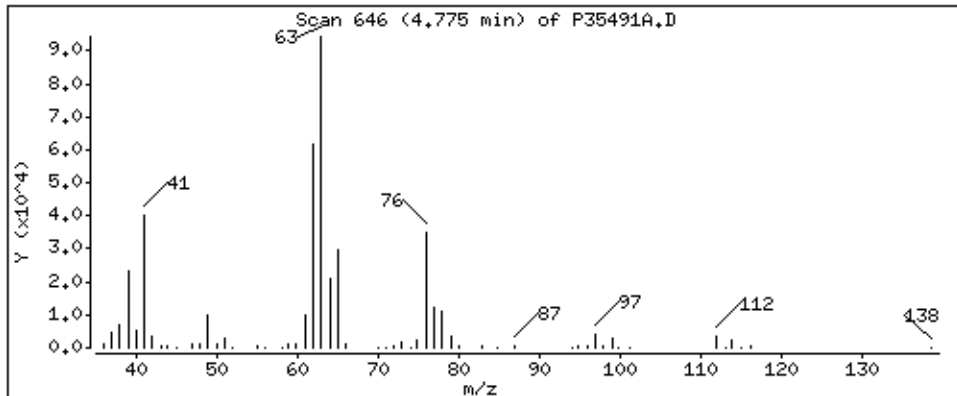
Column phase: RTX-624

Column diameter: 0,18

61 1,2-Dichloropropane

Concentration: 47,3 ug/L

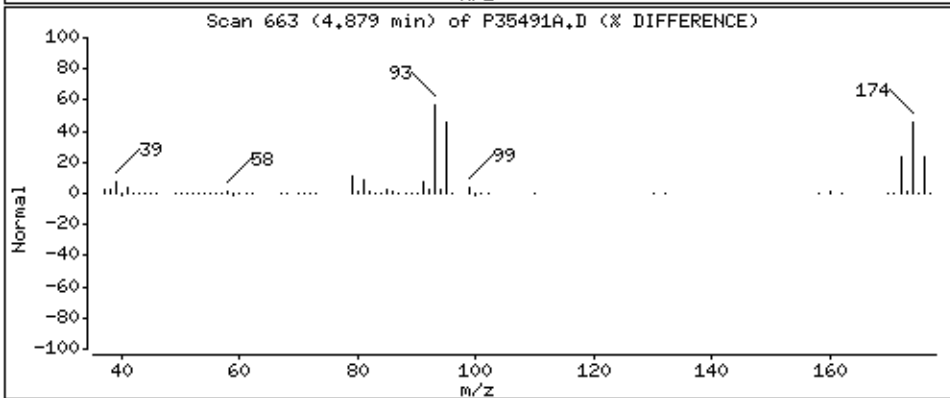
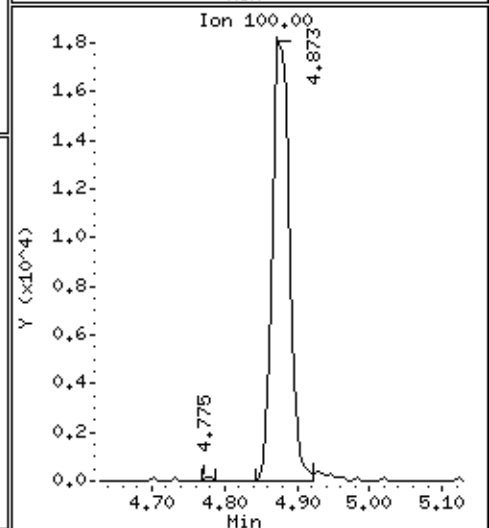
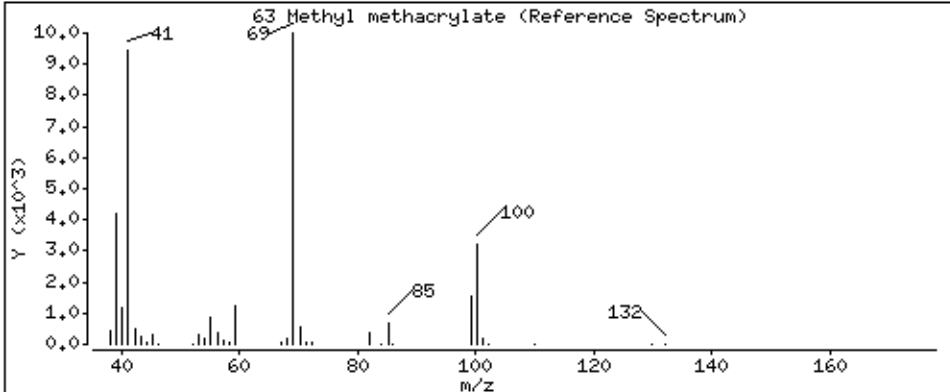
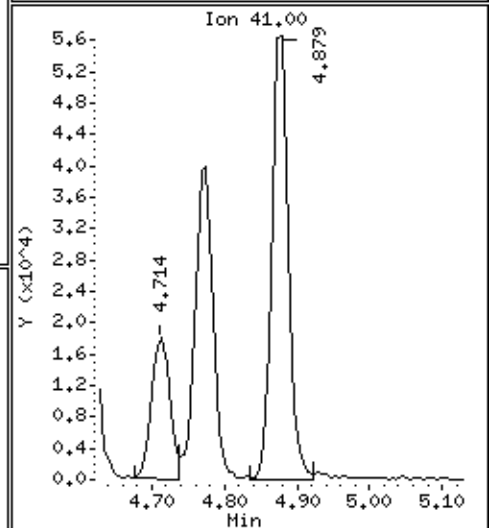
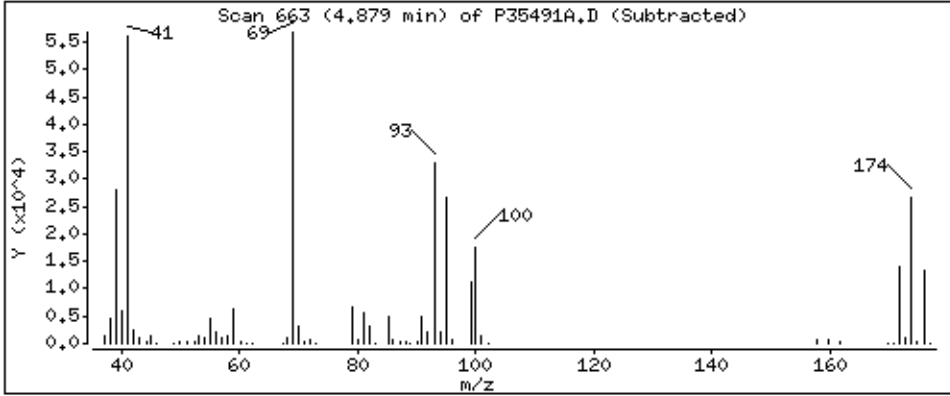
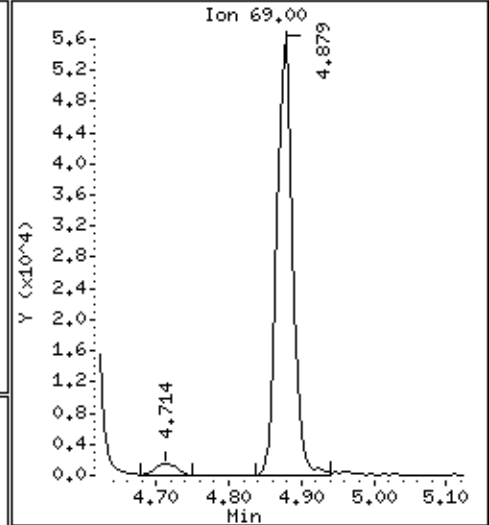
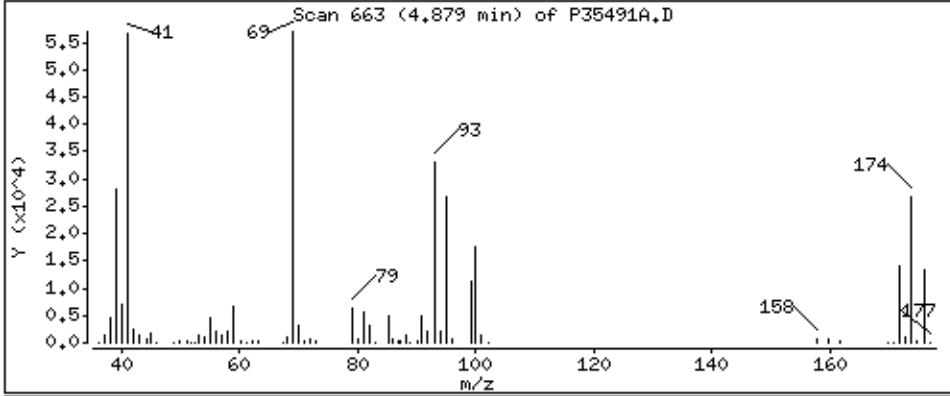
Review Code:



63 Methyl methacrylate

Concentration: 46.4 ug/L

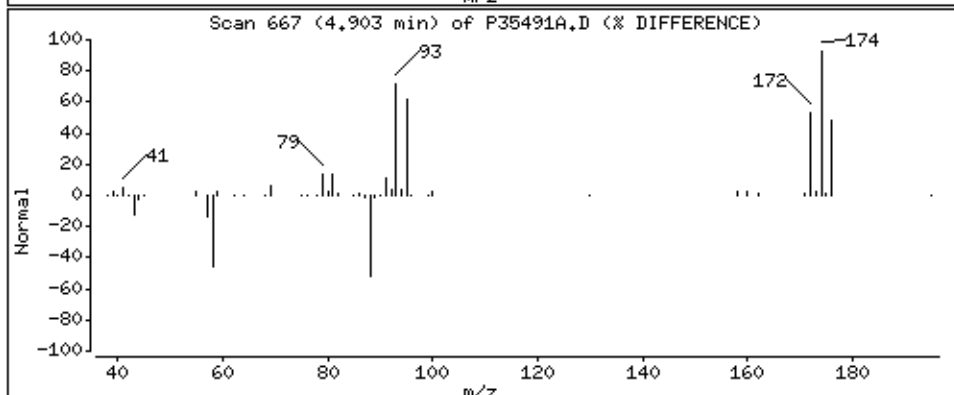
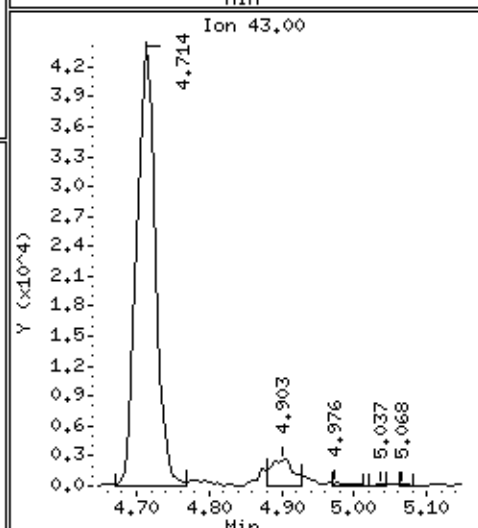
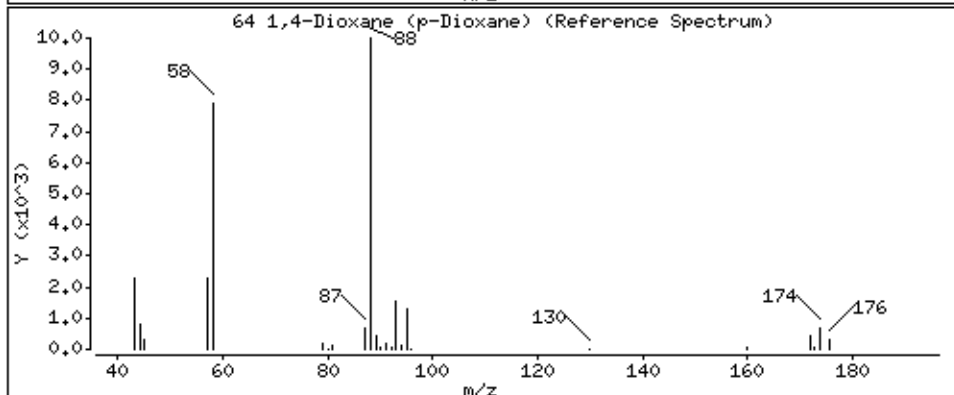
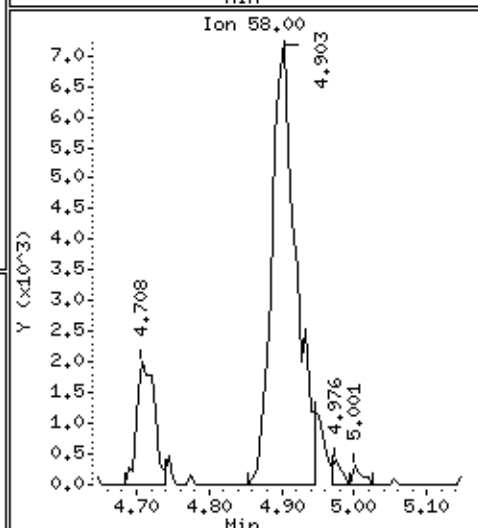
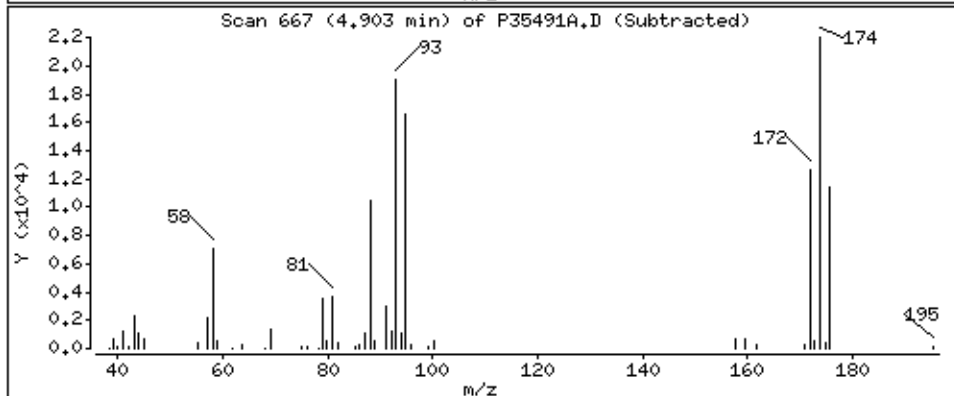
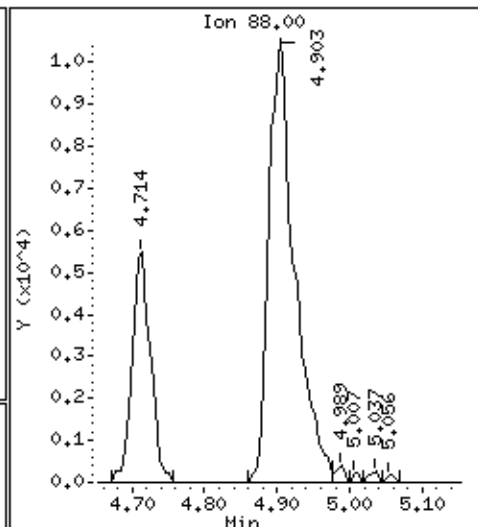
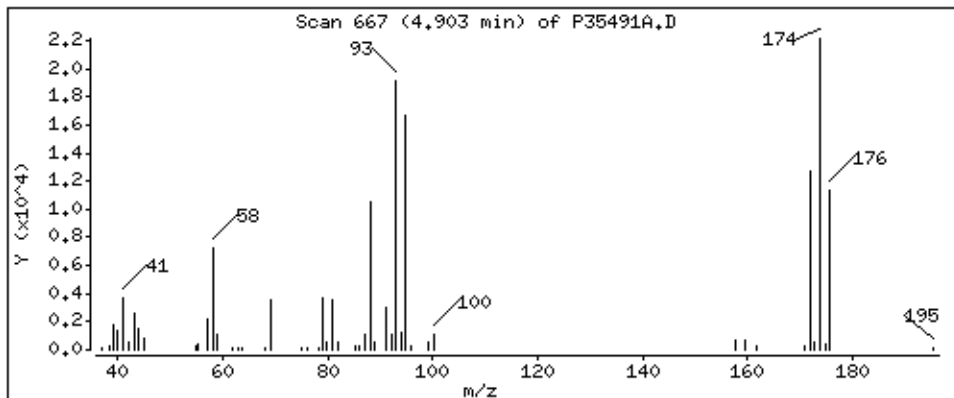
Review Code:



64 1,4-Dioxane (p-Dioxane)

Concentration: 1380 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

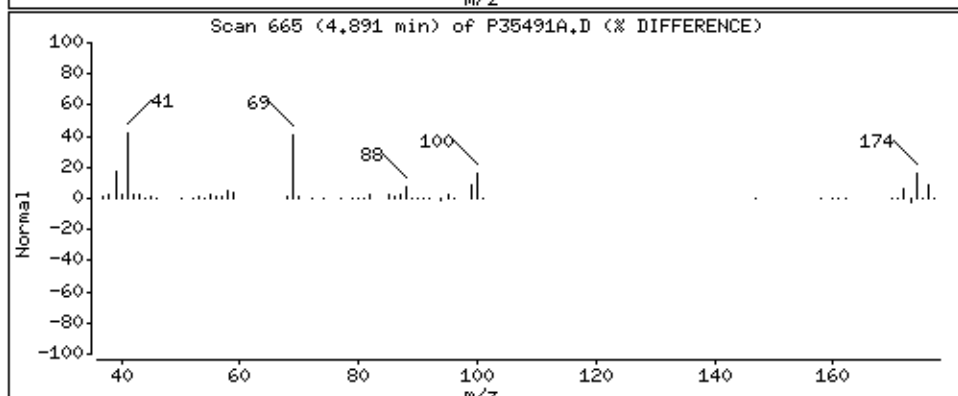
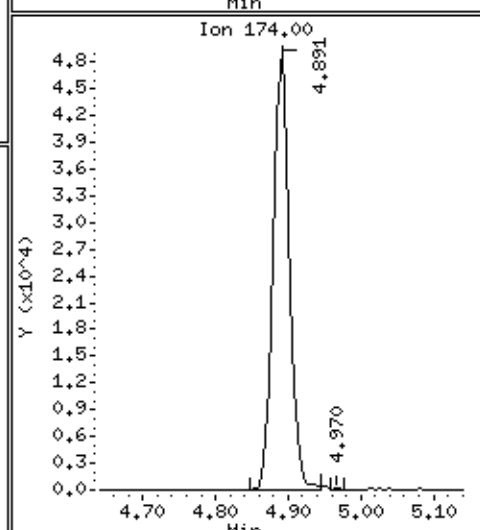
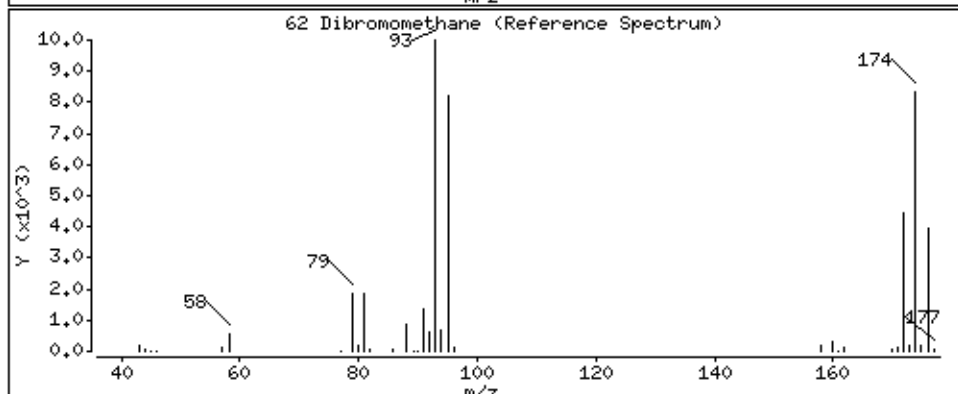
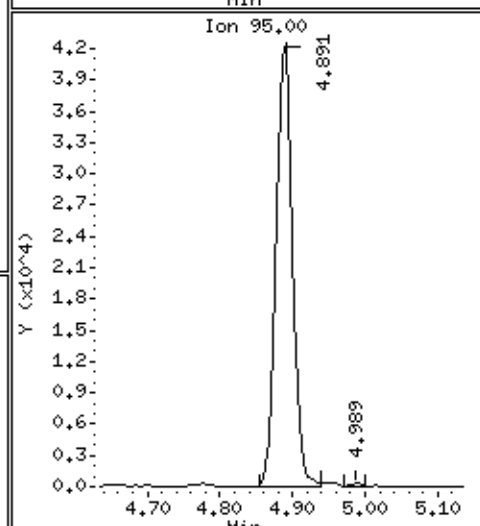
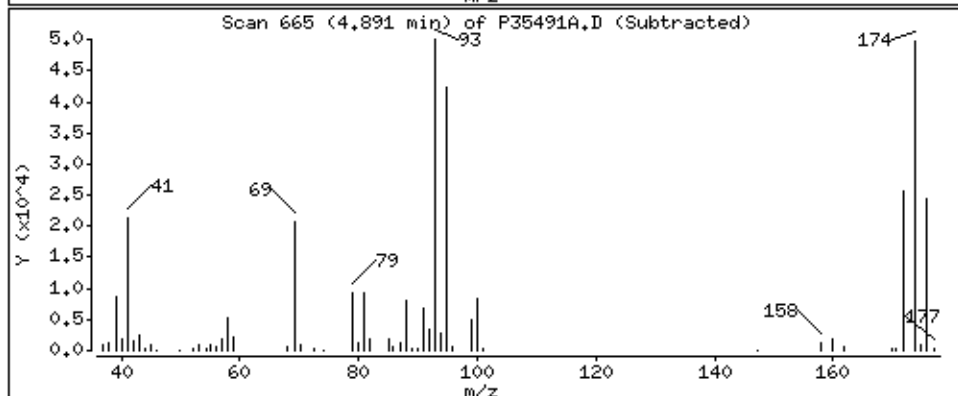
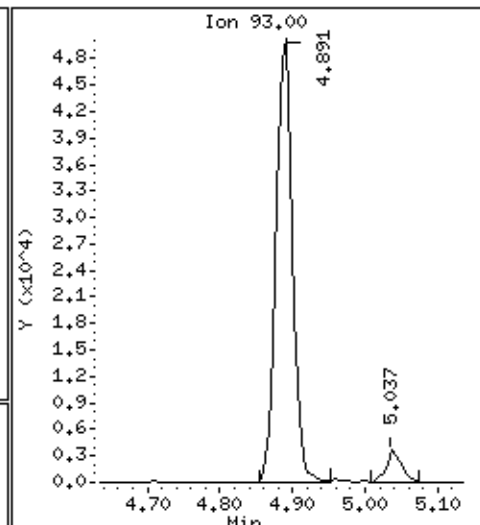
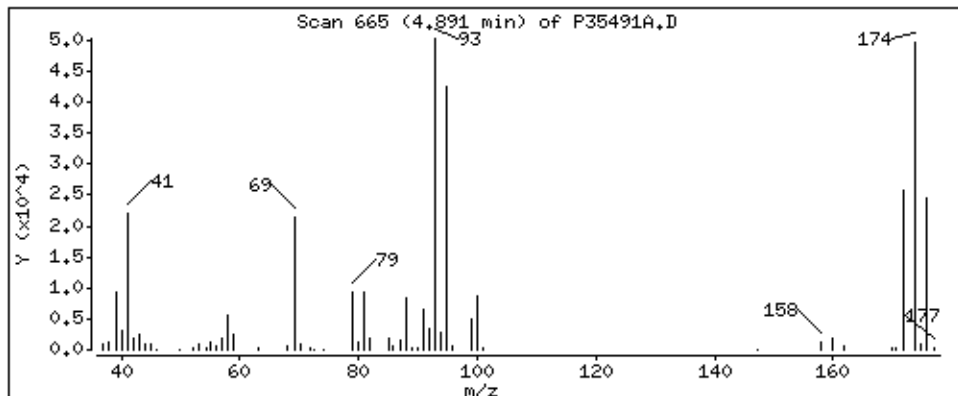
Column phase: RTX-624

Column diameter: 0.18

62 Dibromomethane

Concentration: 48.6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

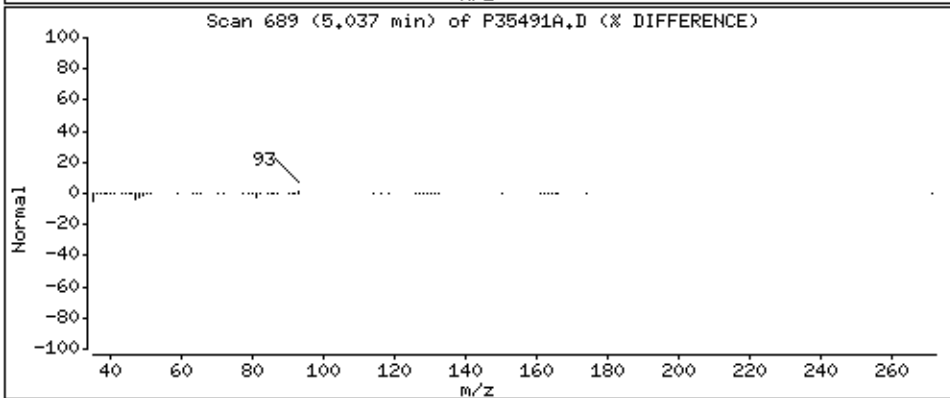
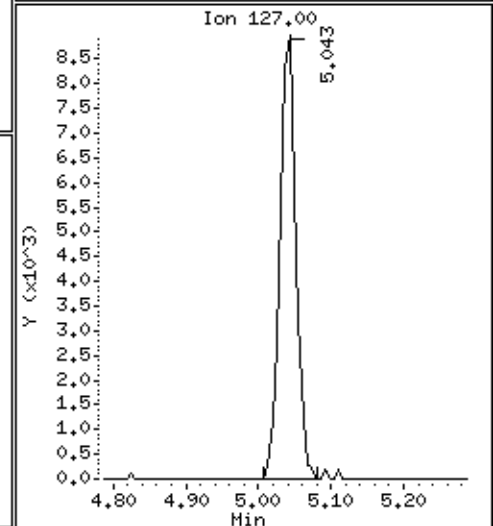
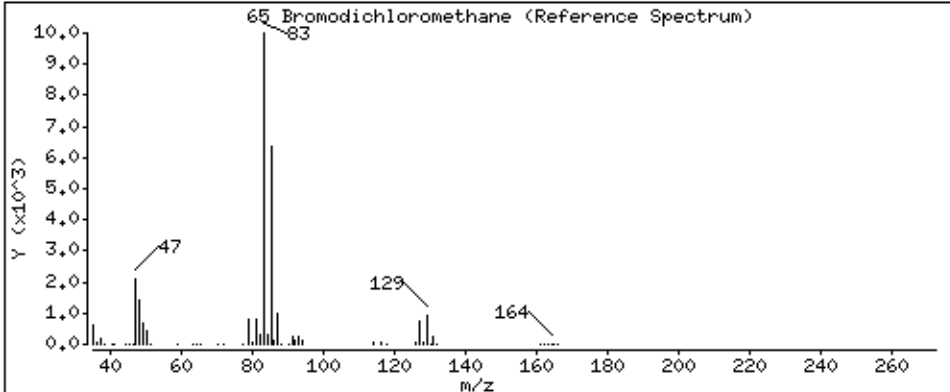
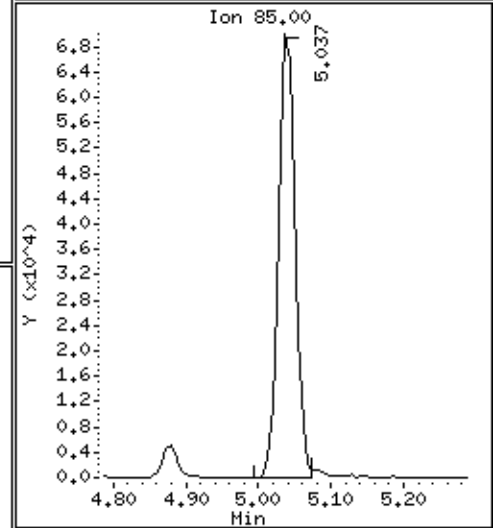
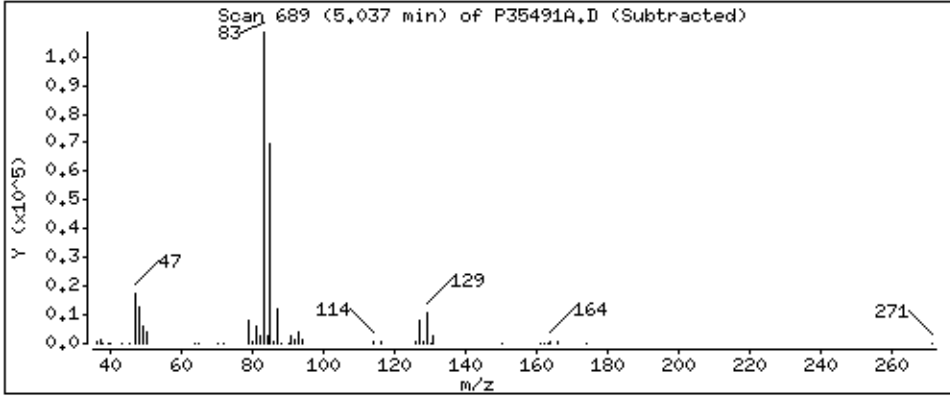
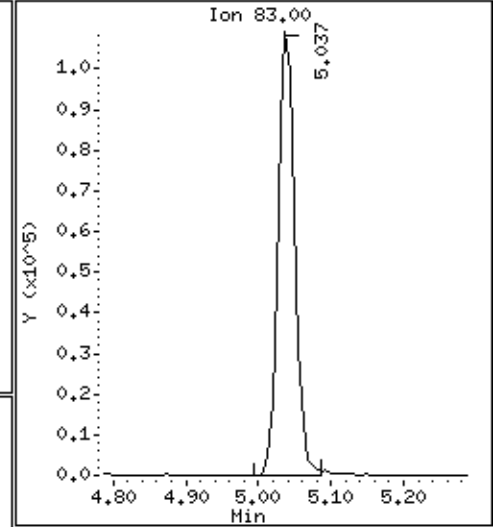
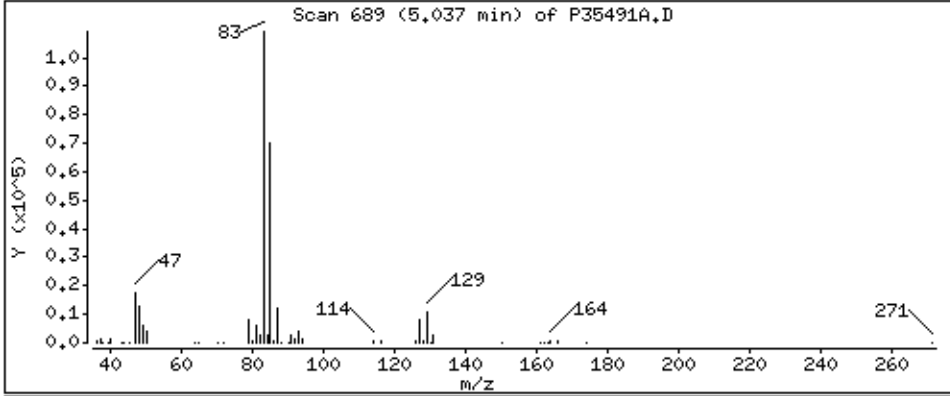
Column phase: RTX-624

Column diameter: 0.18

65 Bromodichloromethane

Concentration: 47.5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

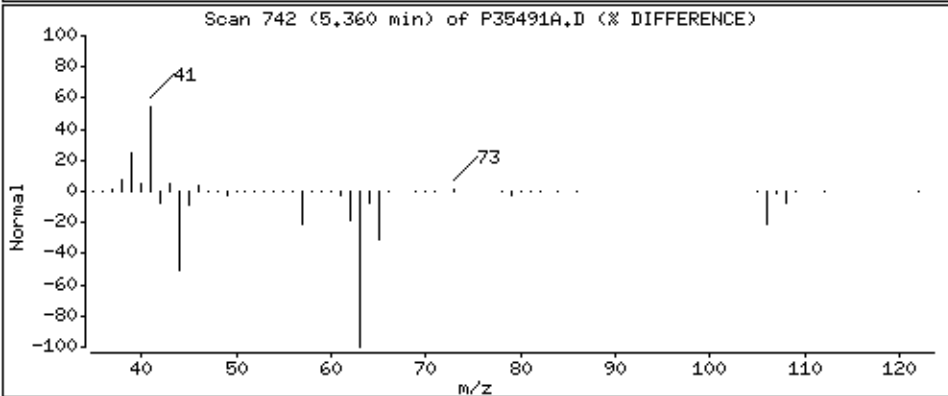
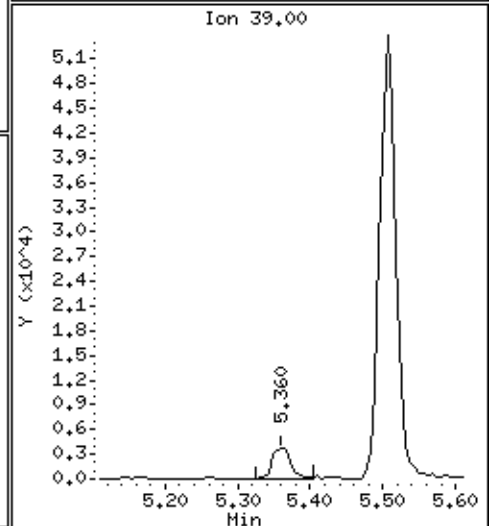
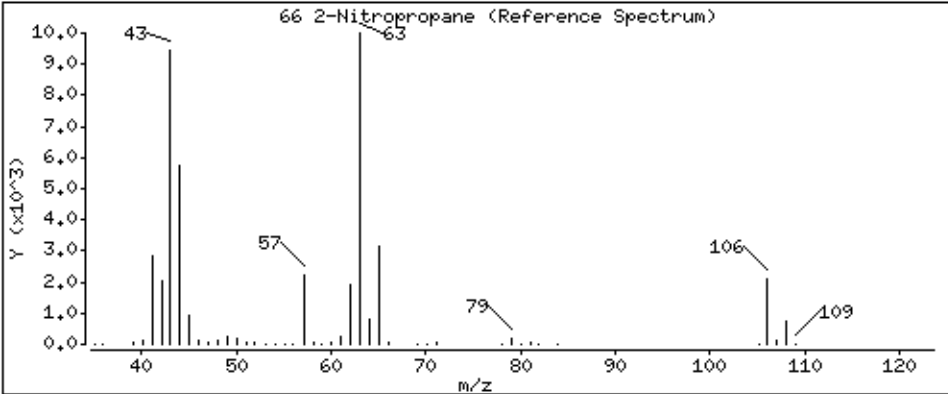
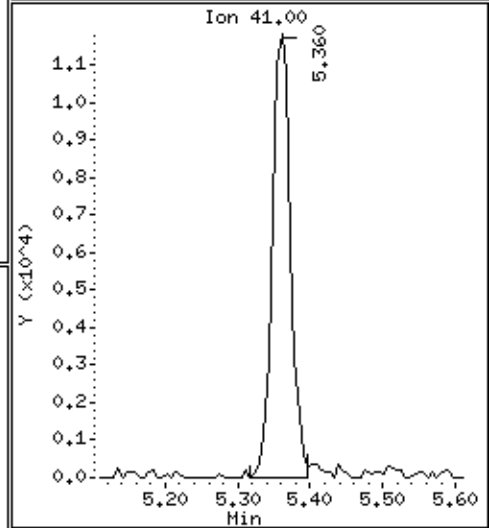
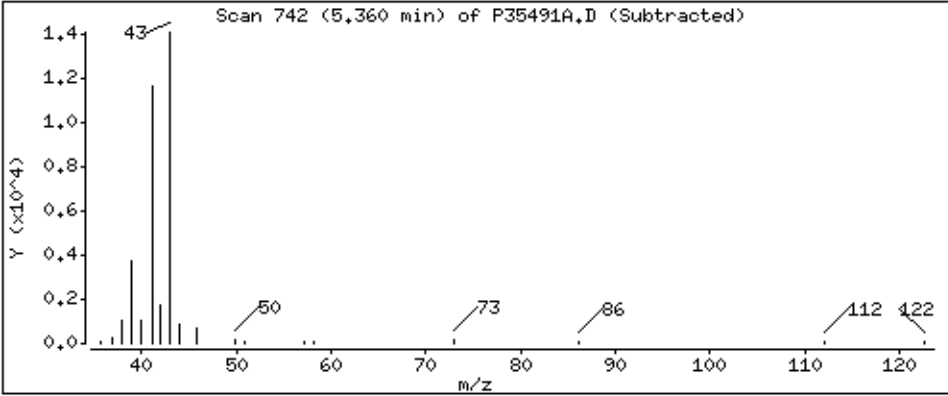
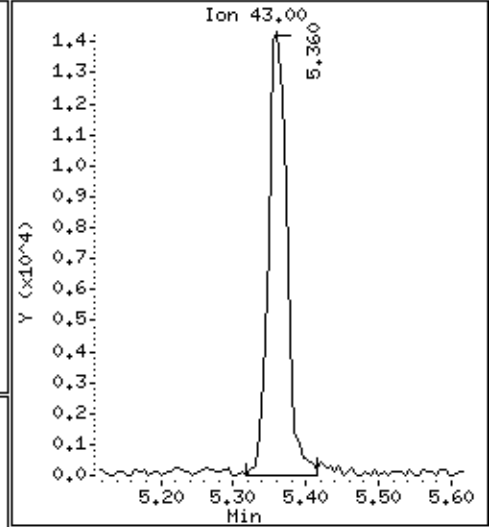
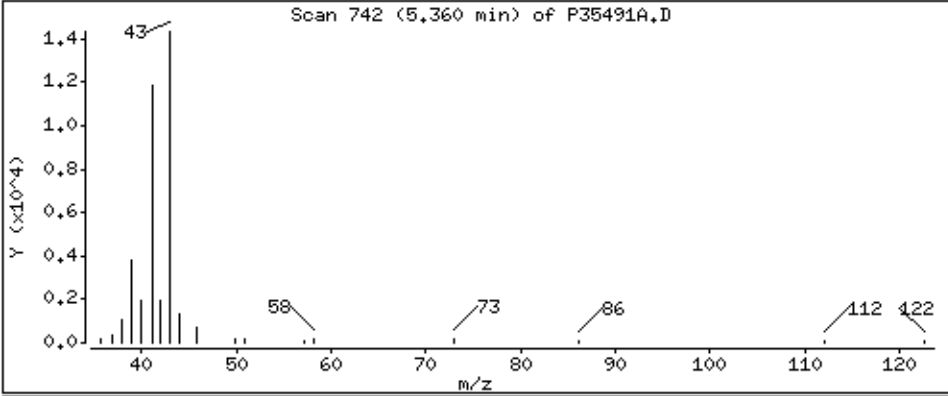
Column phase: RTX-624

Column diameter: 0.18

66 2-Nitropropane

Concentration: 17.6 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1,25

Purge Volume: 5.0

Operator: KGG

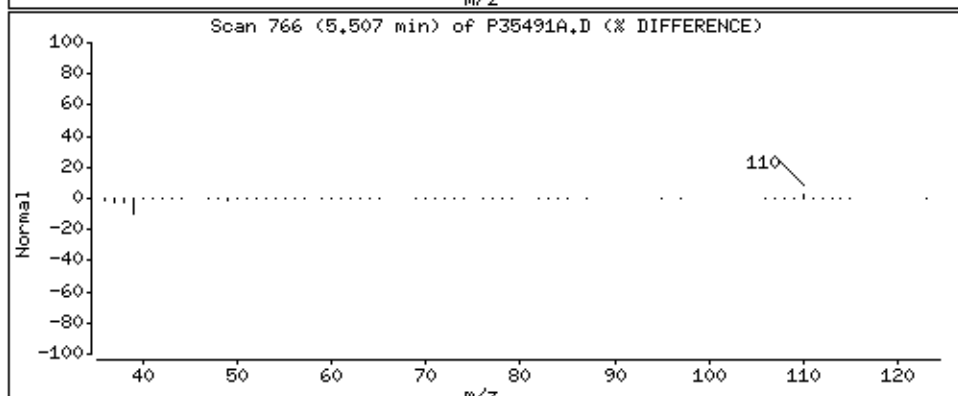
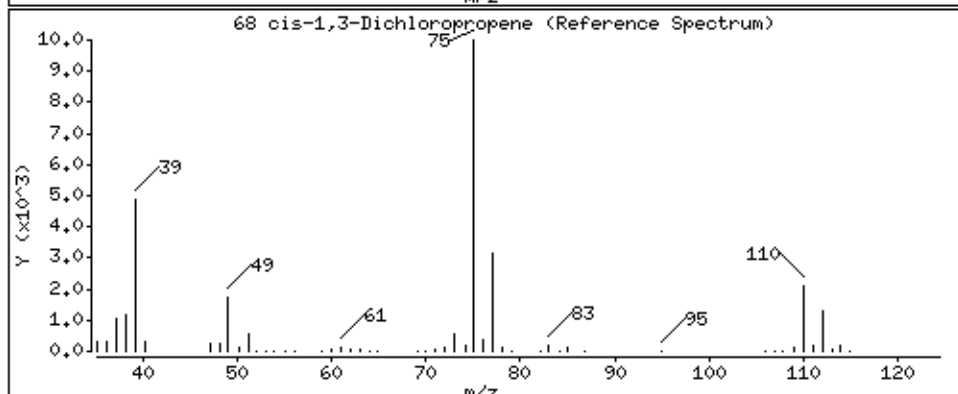
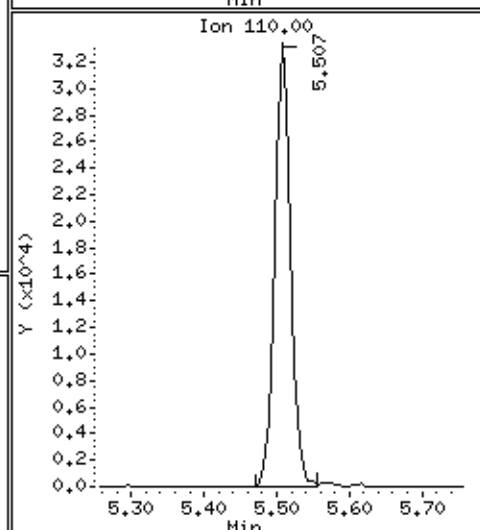
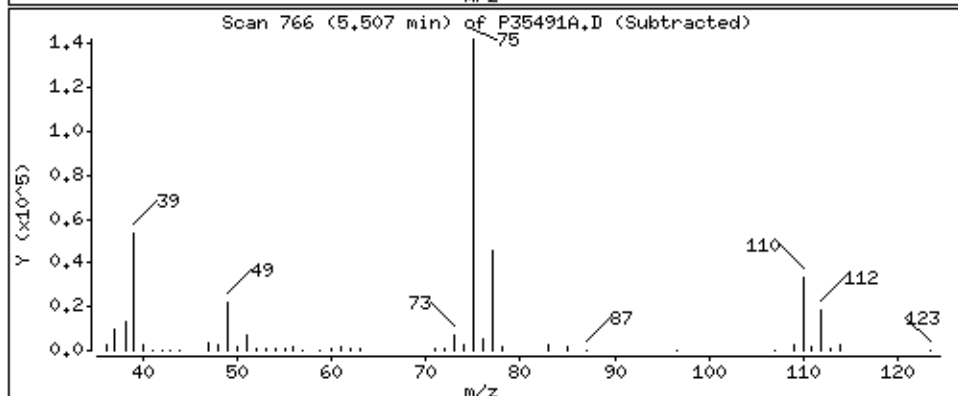
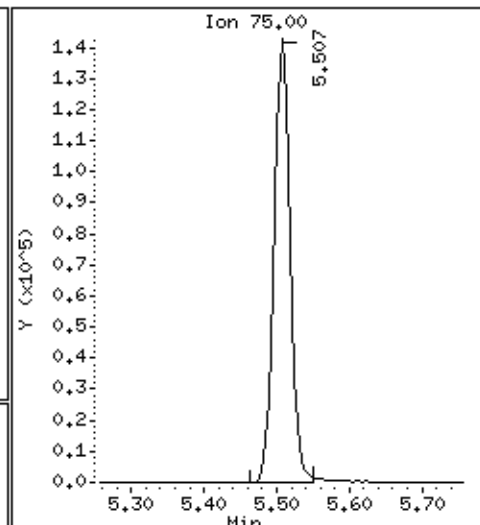
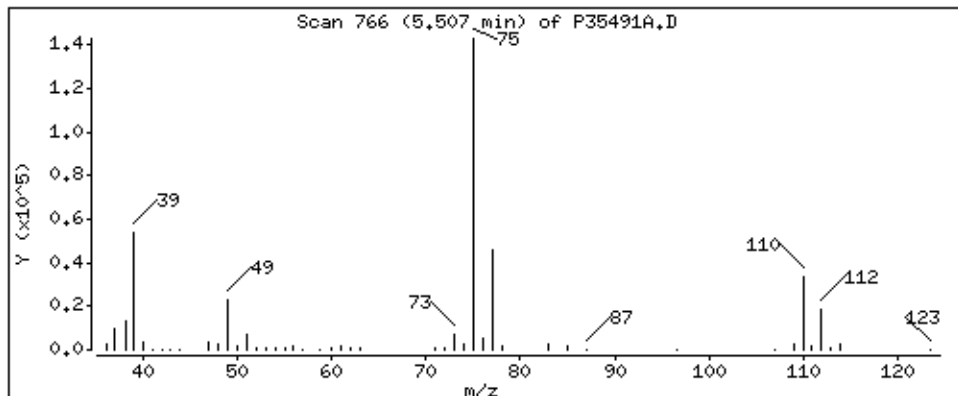
Column phase: RTX-624

Column diameter: 0,18

68 cis-1,3-Dichloropropene

Concentration: 49,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

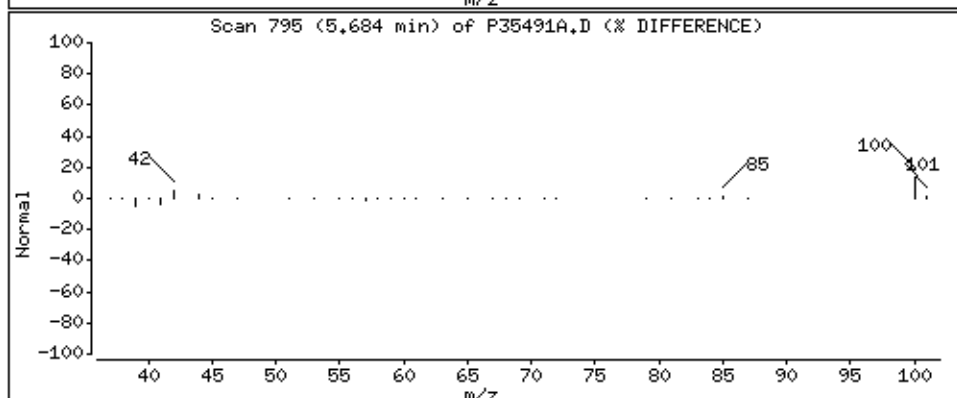
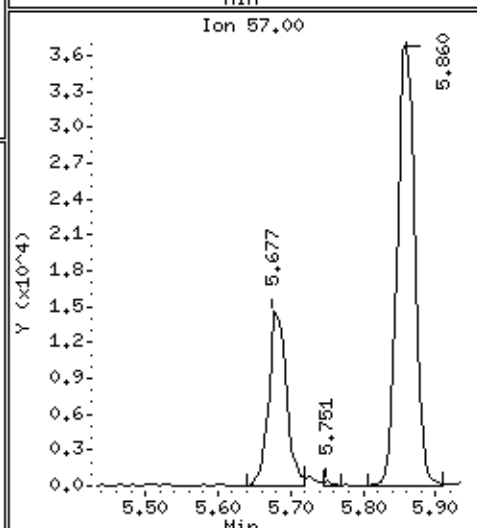
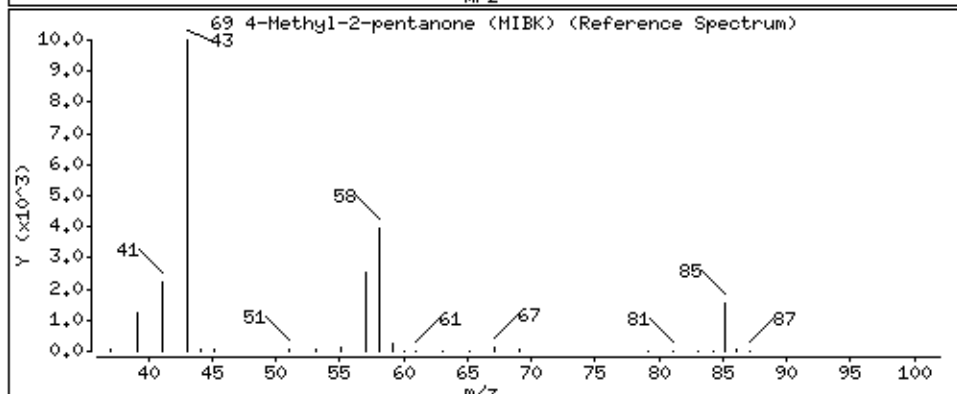
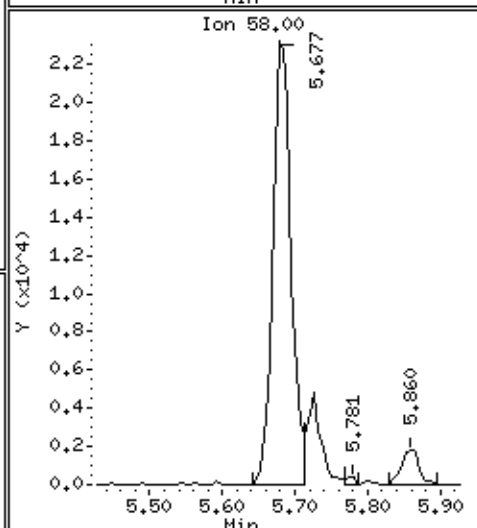
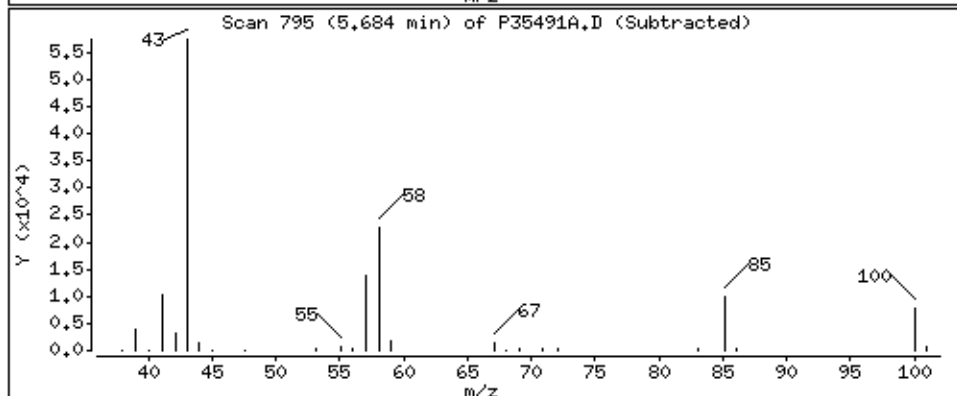
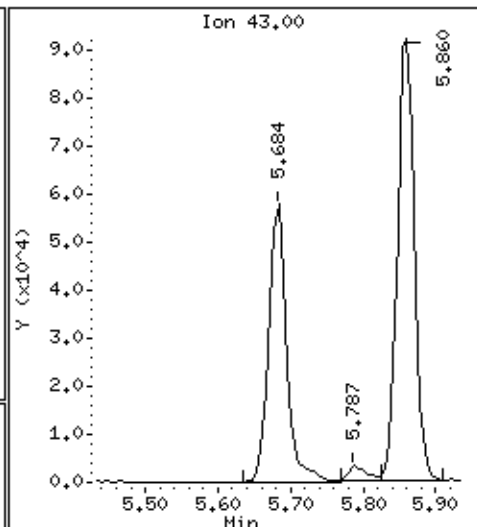
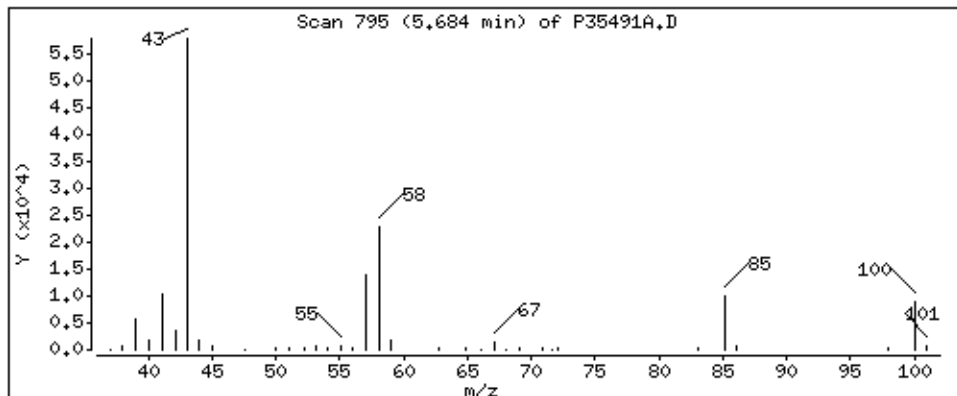
Column phase: RTX-624

Column diameter: 0,18

69 4-Methyl-2-pentanone (MIBK)

Concentration: 40,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

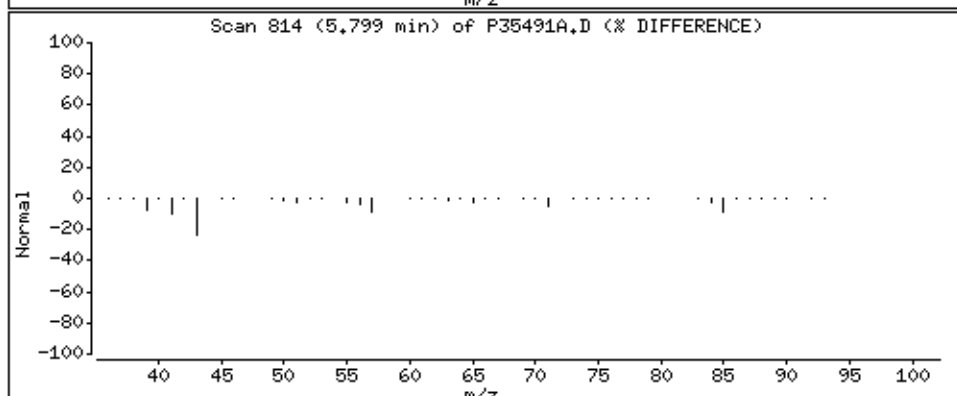
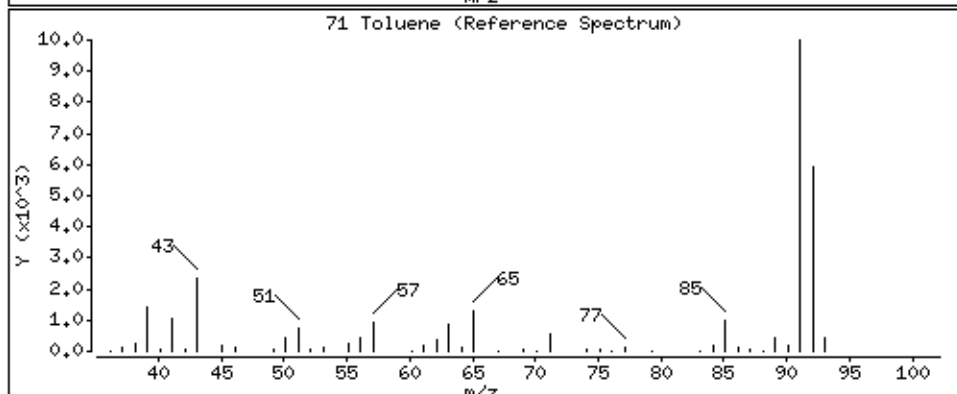
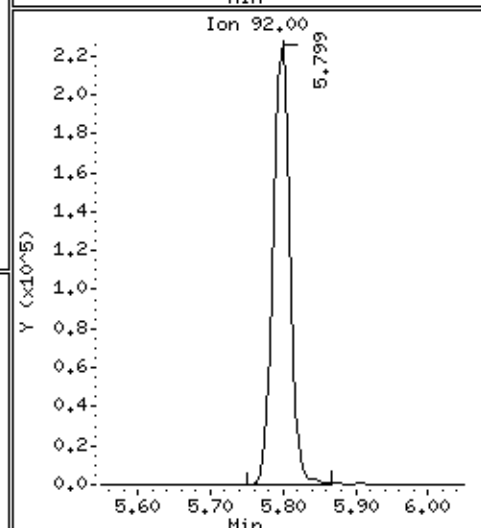
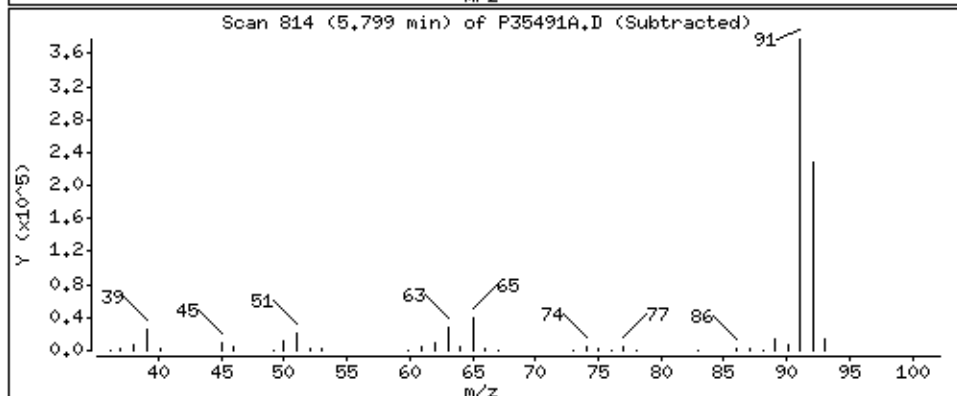
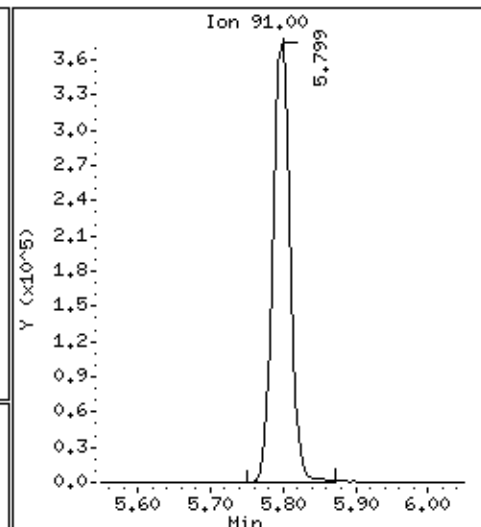
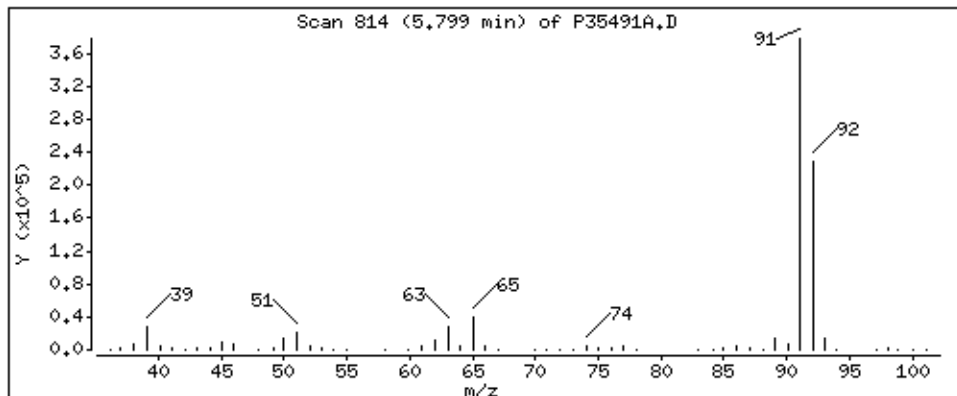
Column phase: RTX-624

Column diameter: 0,18

71 Toluene

Concentration: 47.0 ug/L

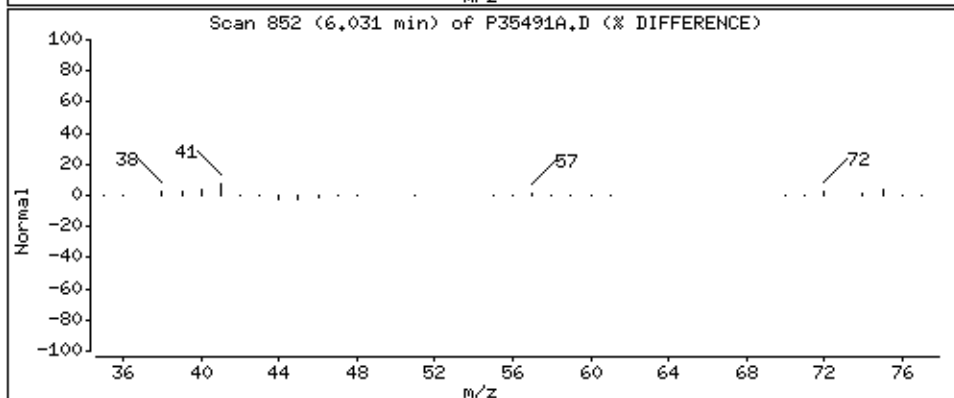
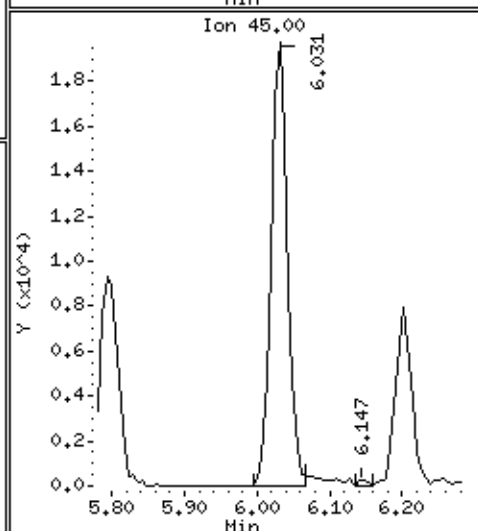
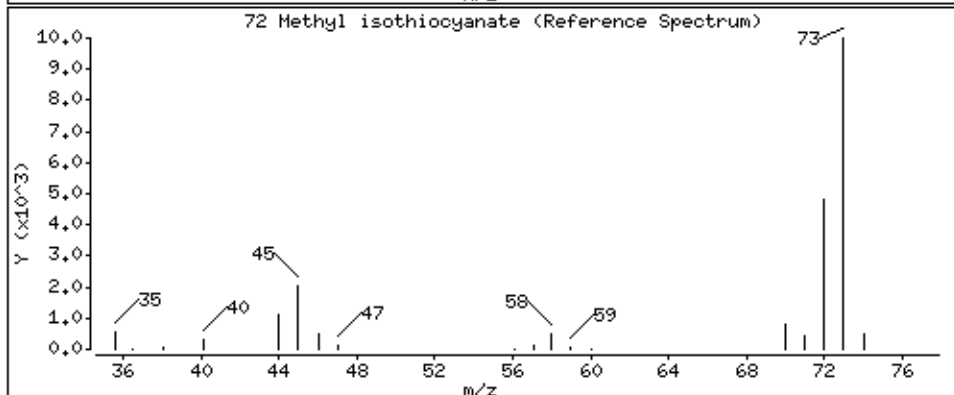
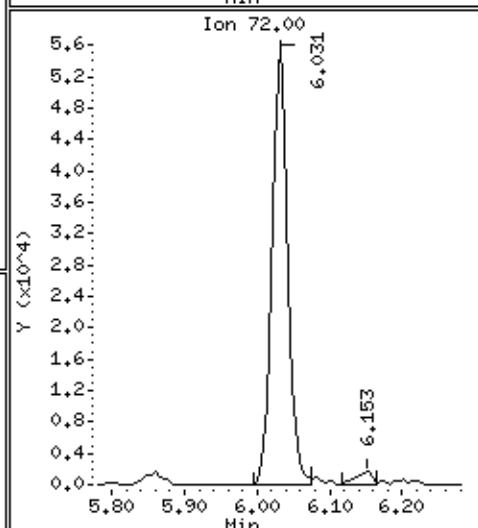
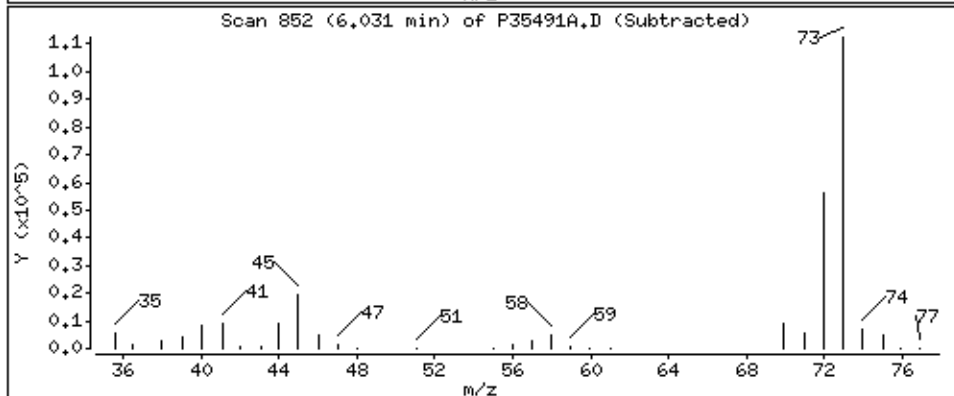
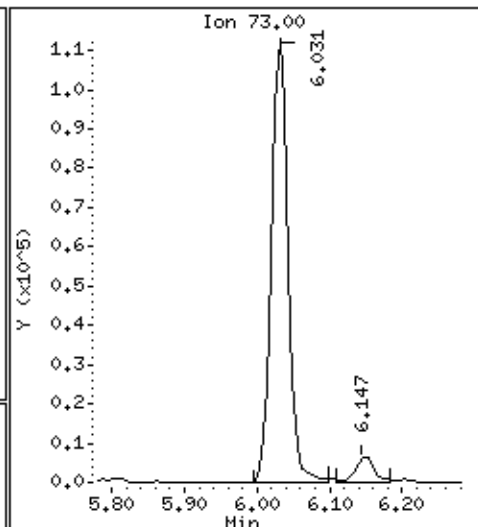
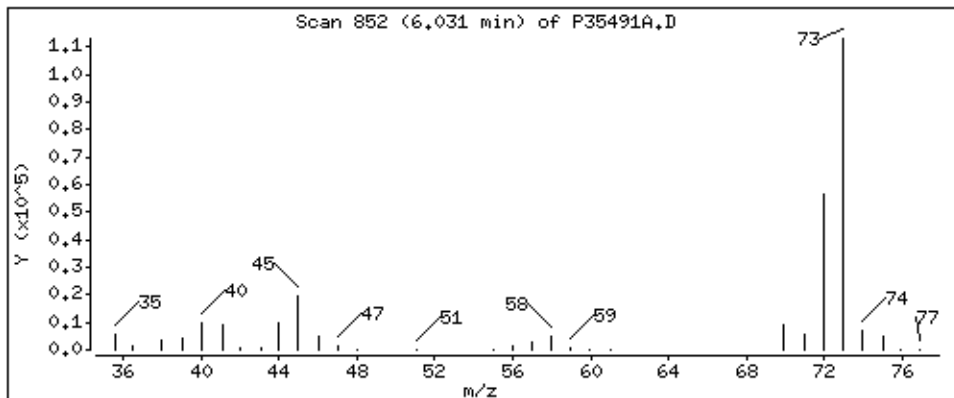
Review Code:



72 Methyl isothiocyanate

Concentration: 108 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

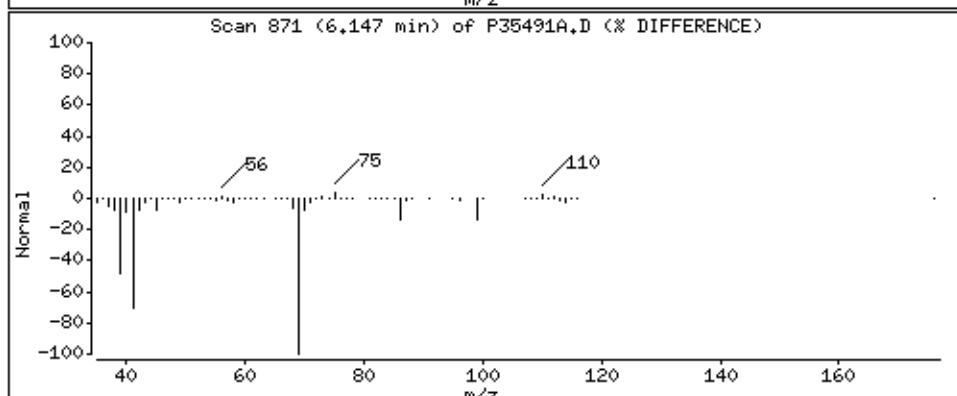
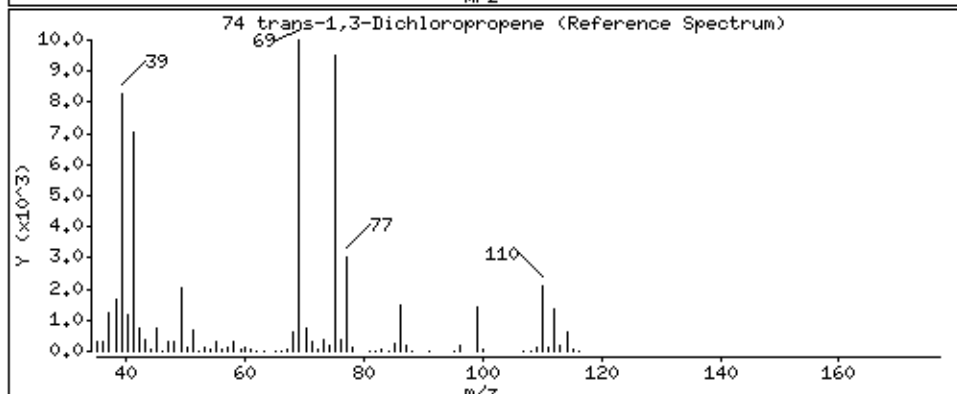
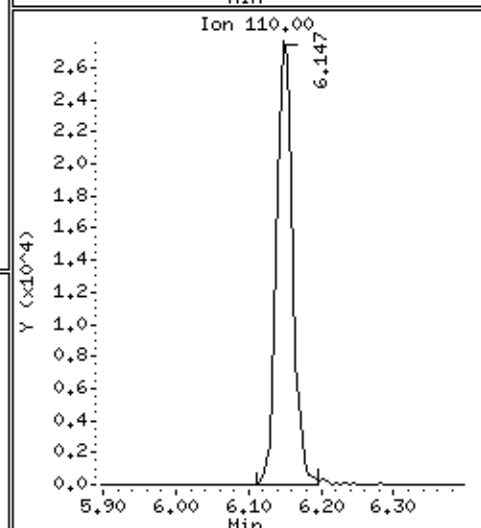
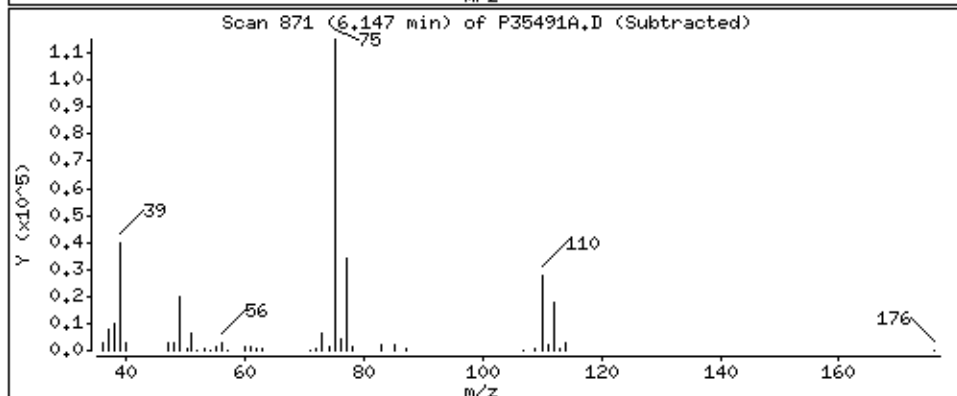
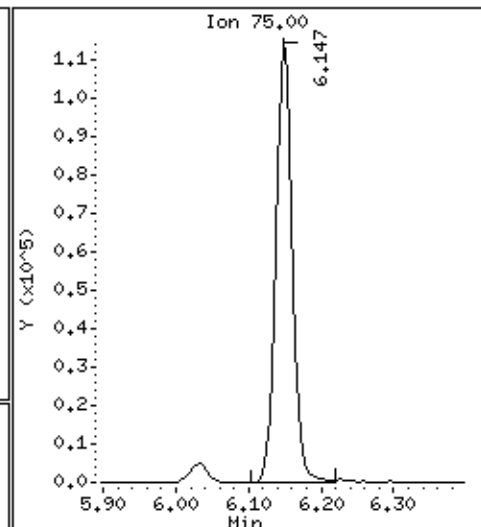
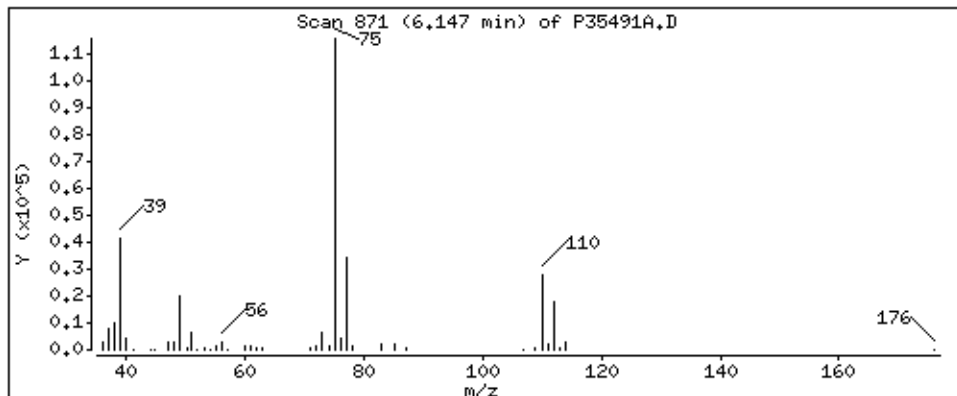
Column phase: RTX-624

Column diameter: 0,18

74 trans-1,3-Dichloropropene

Concentration: 48,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

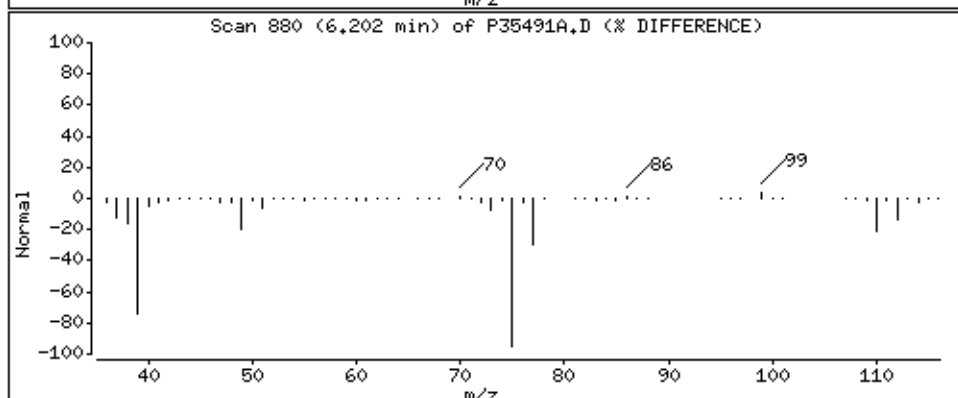
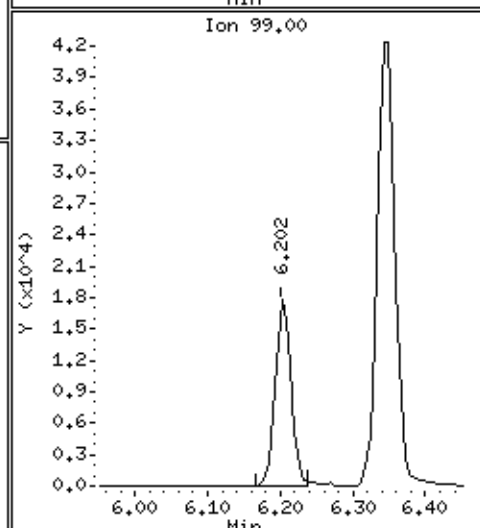
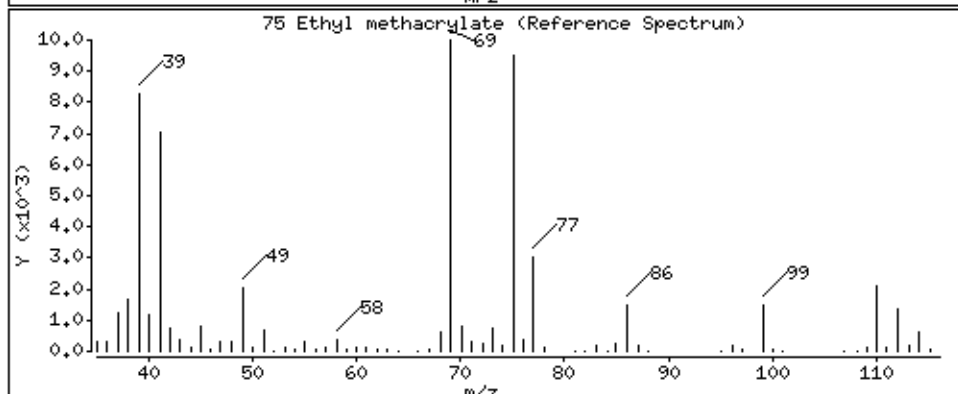
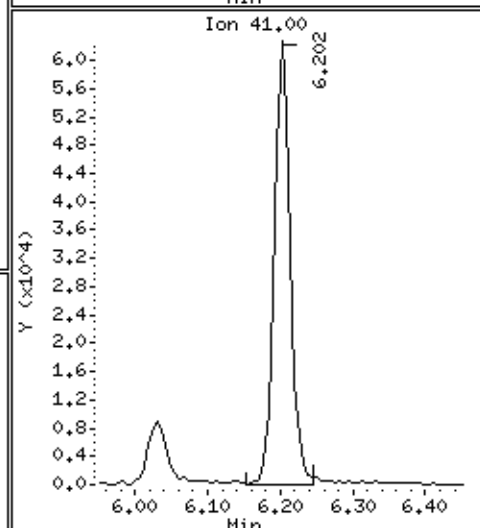
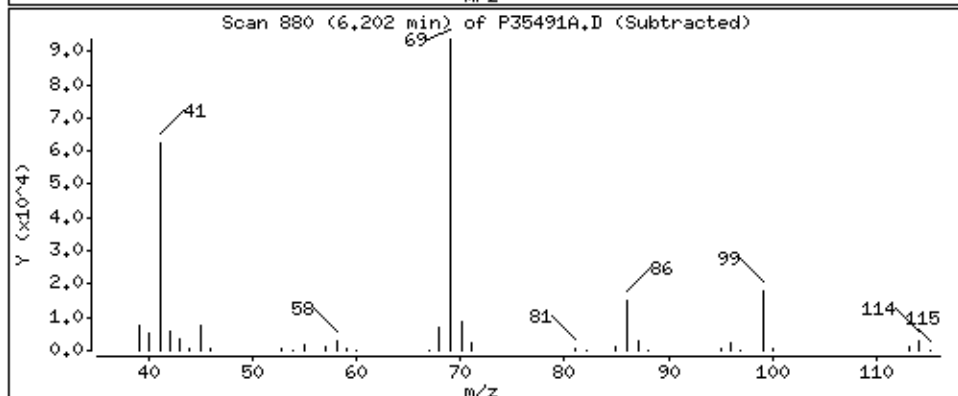
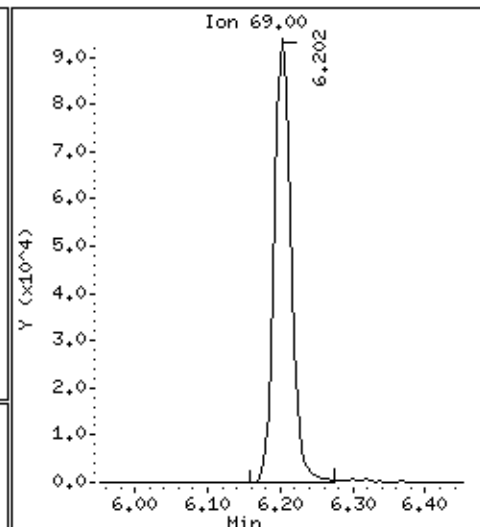
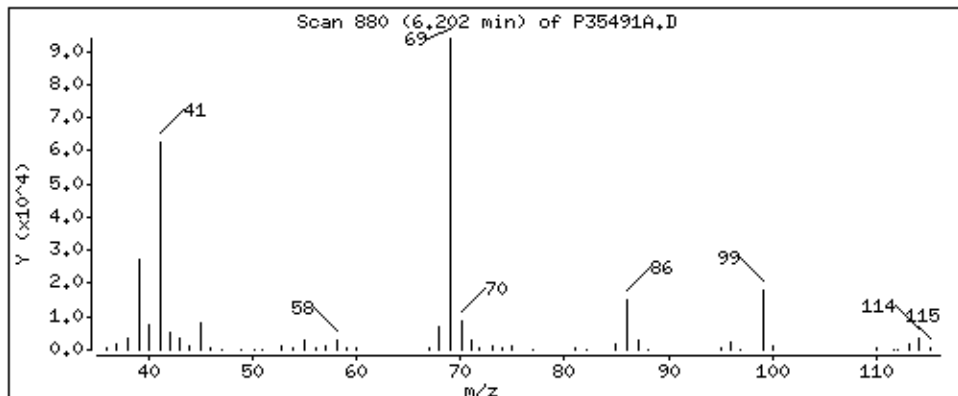
Column phase: RTX-624

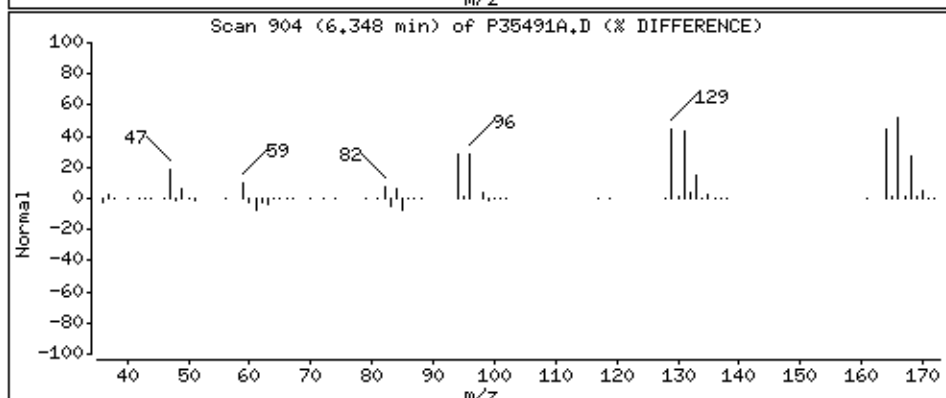
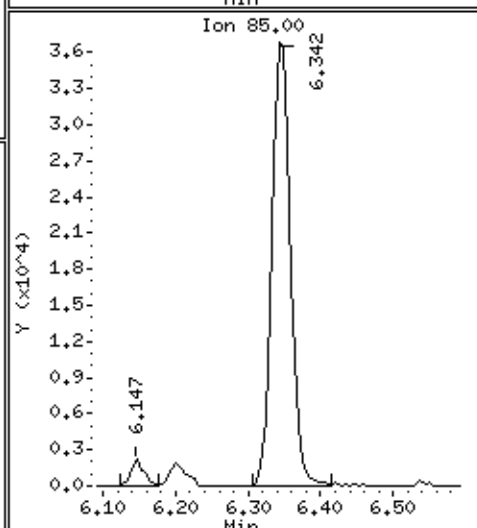
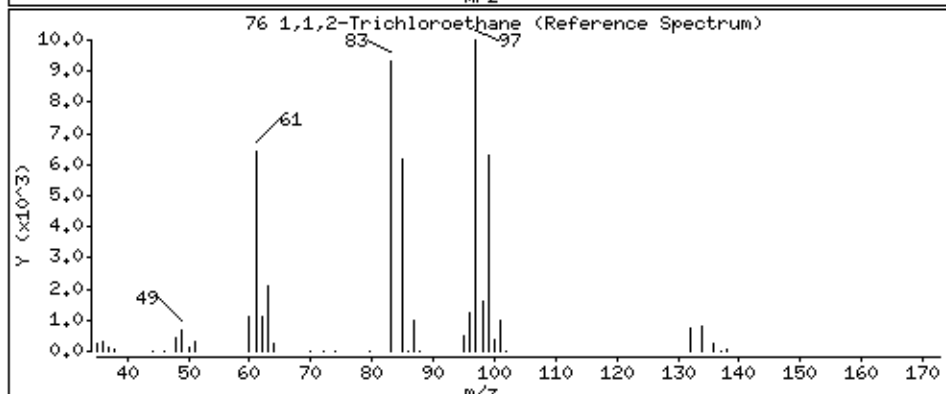
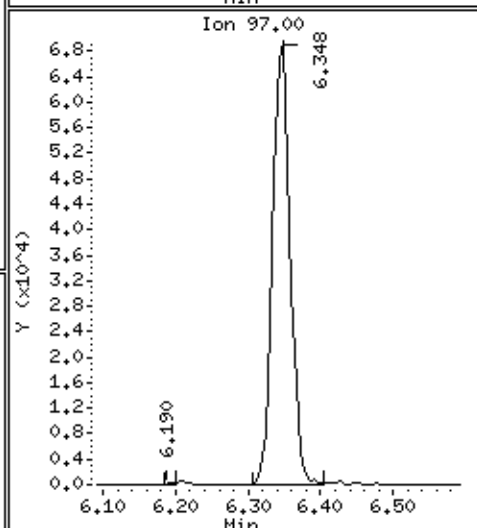
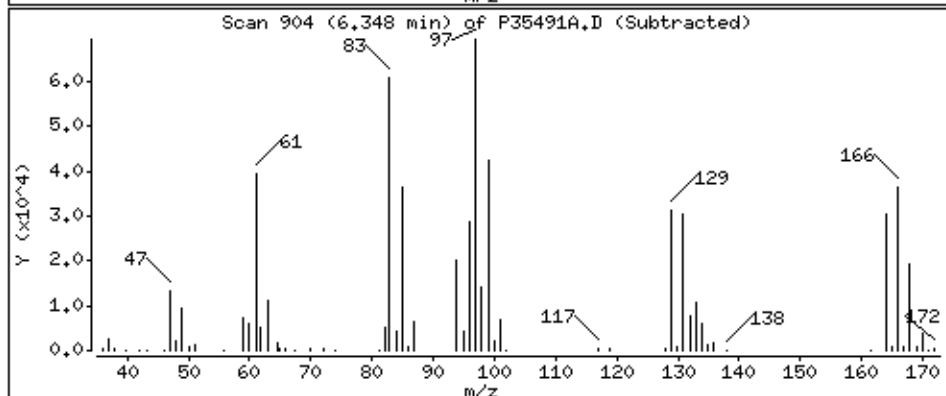
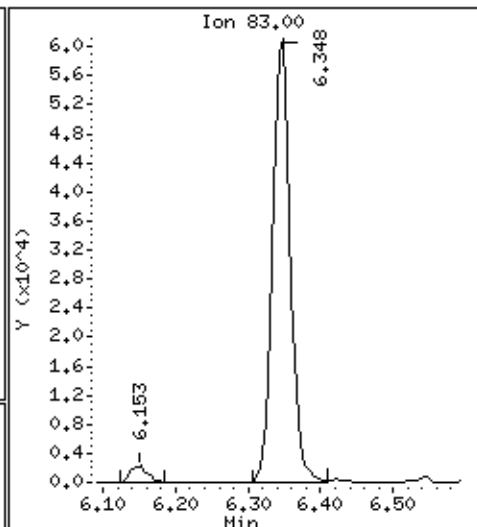
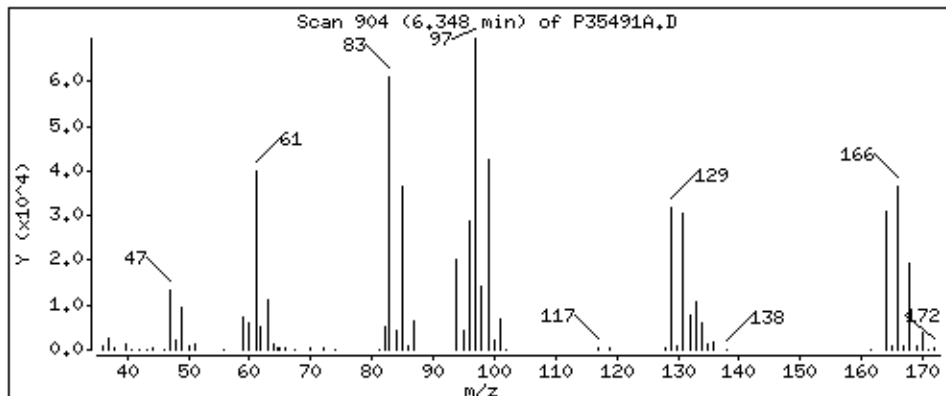
Column diameter: 0,18

75 Ethyl methacrylate

Concentration: 44,7 ug/L

Review Code:

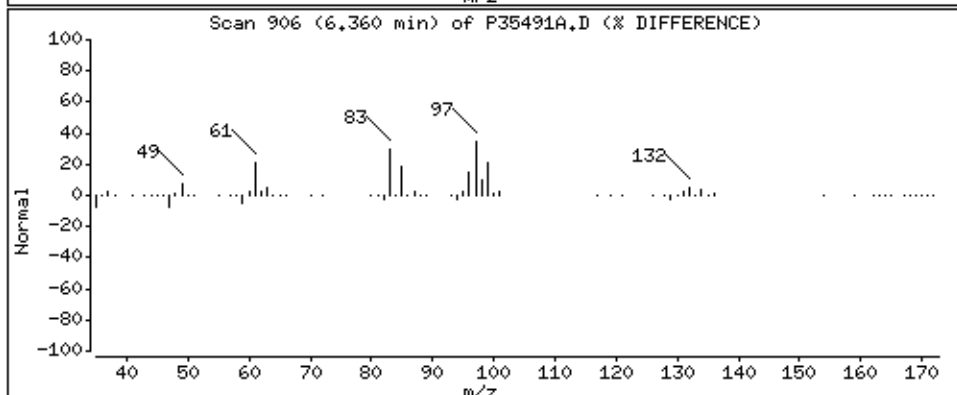
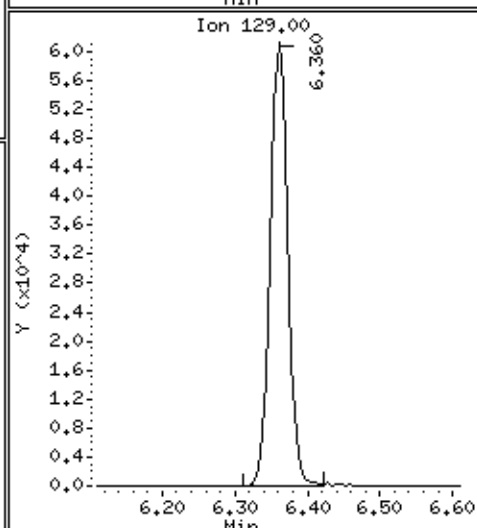
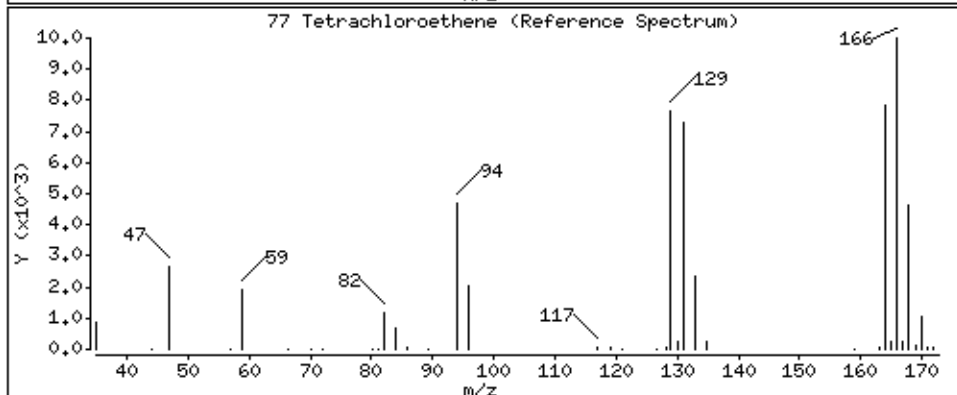
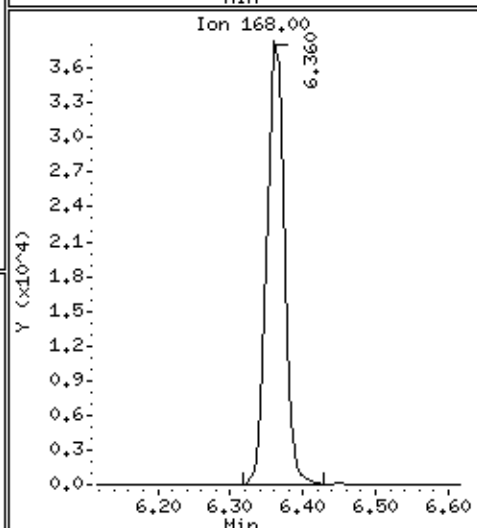
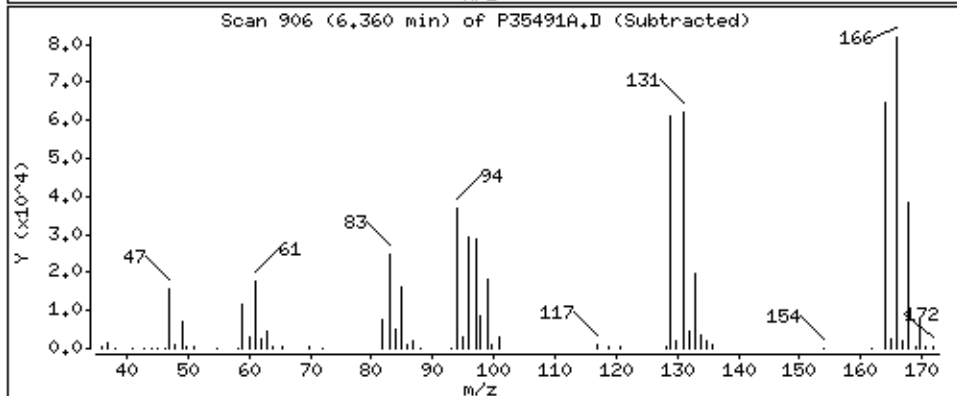
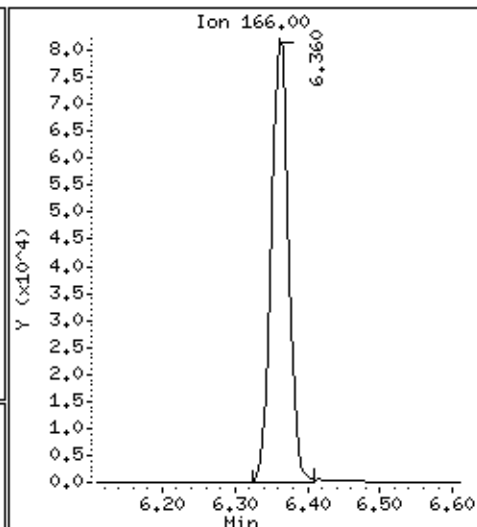
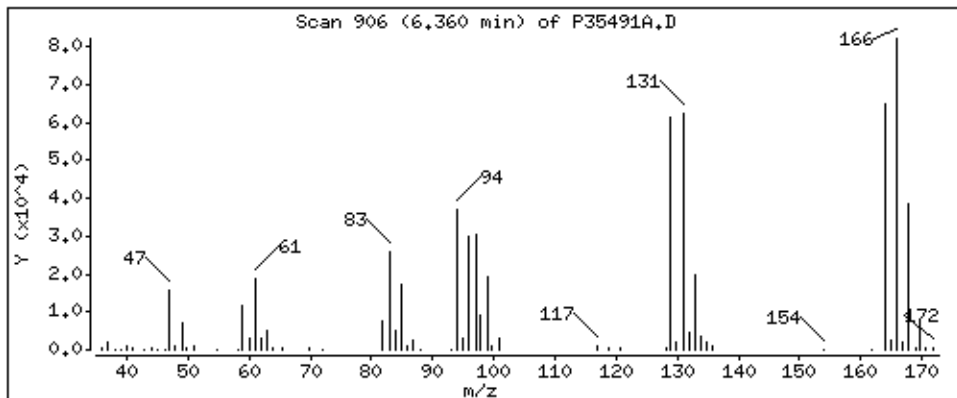




77 Tetrachloroethene

Concentration: 47.0 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

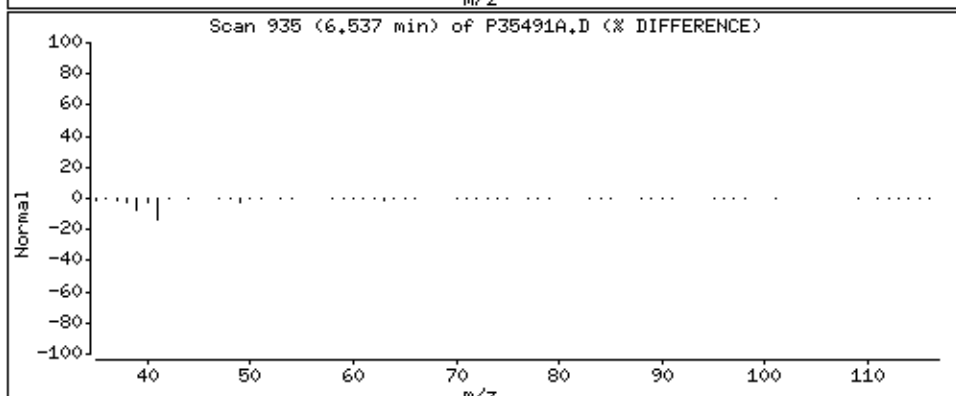
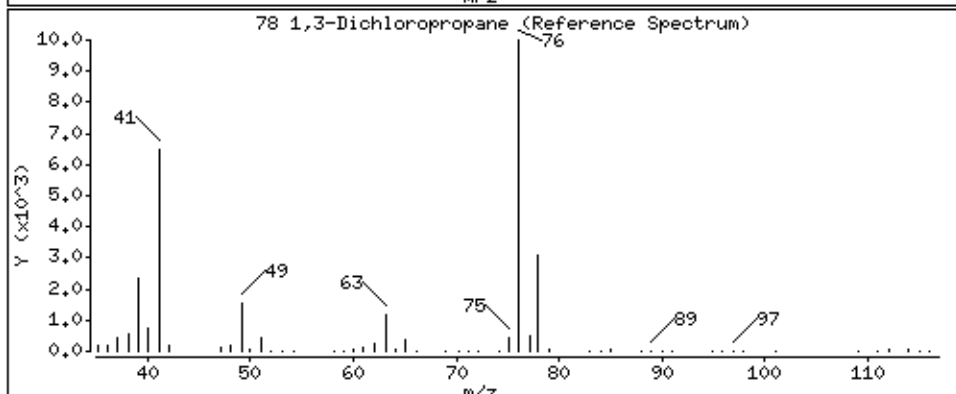
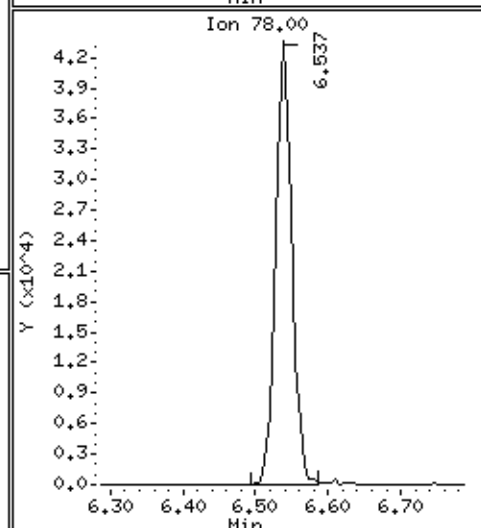
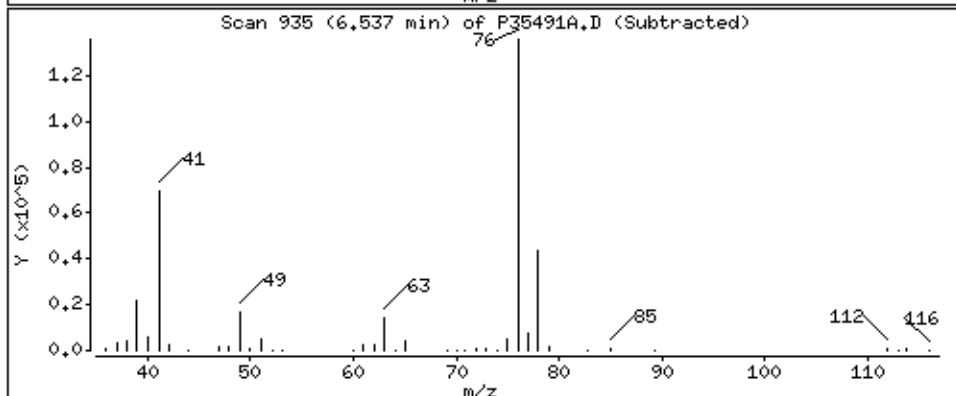
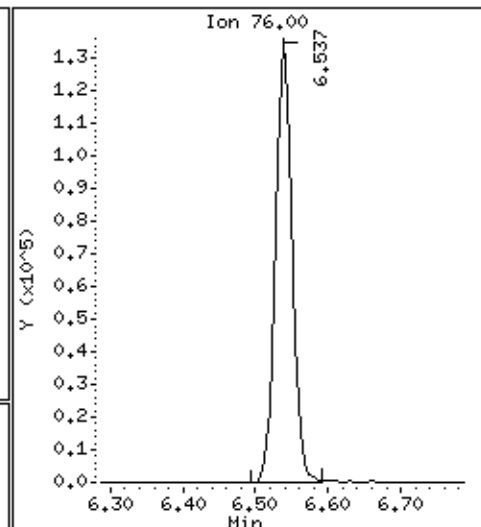
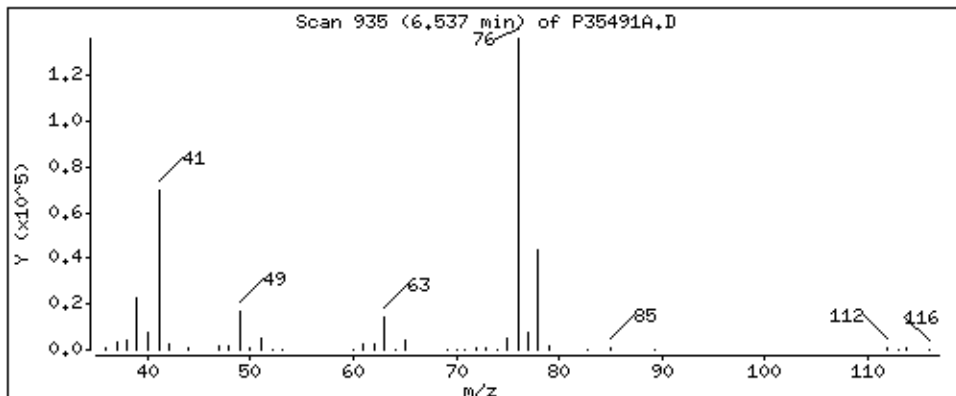
Column phase: RTX-624

Column diameter: 0,18

78 1,3-Dichloropropane

Concentration: 48,8 ug/L

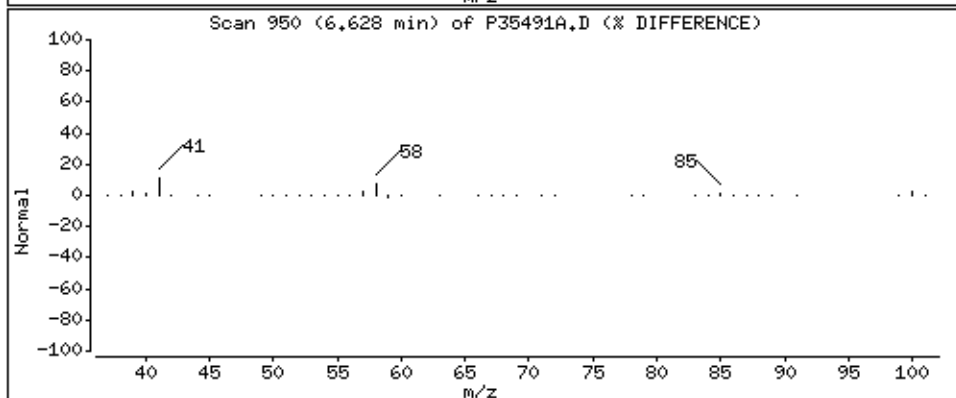
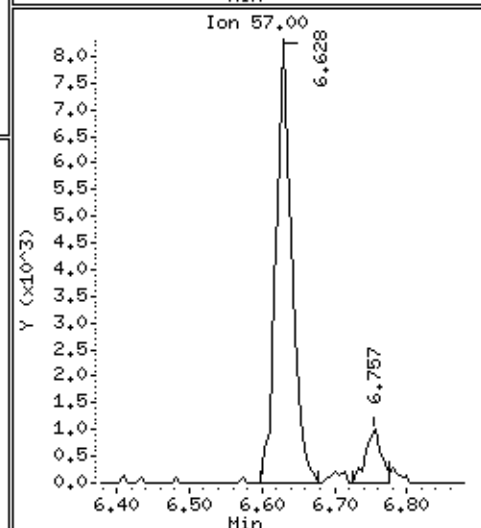
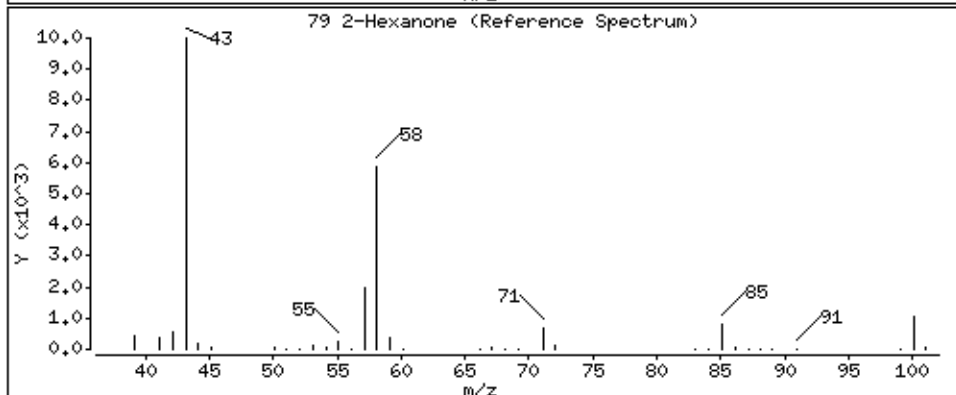
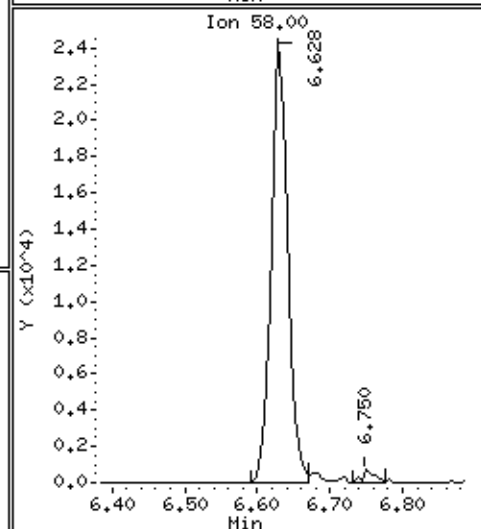
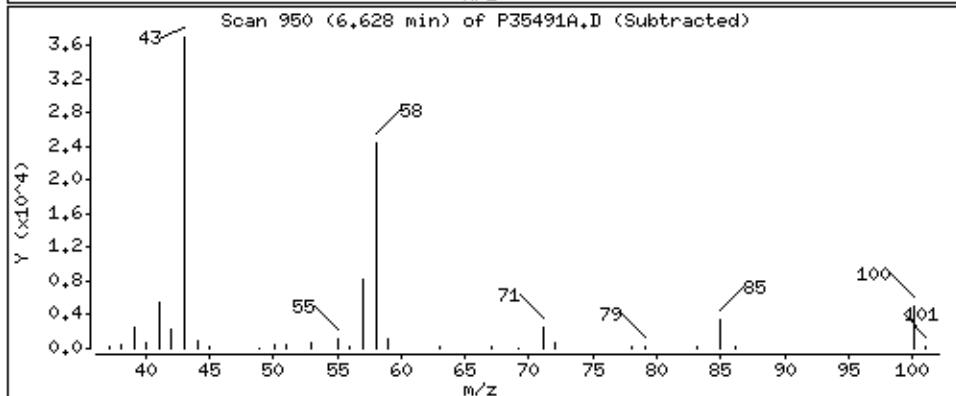
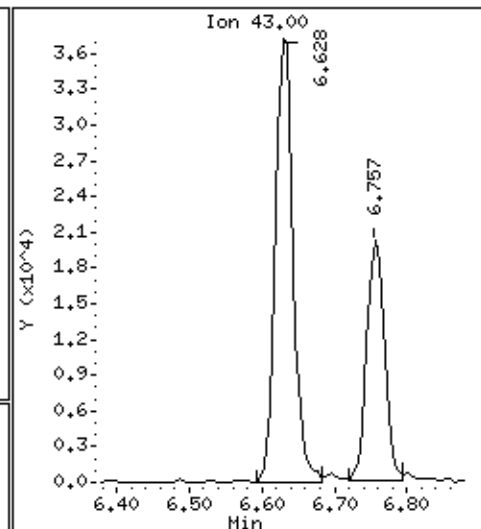
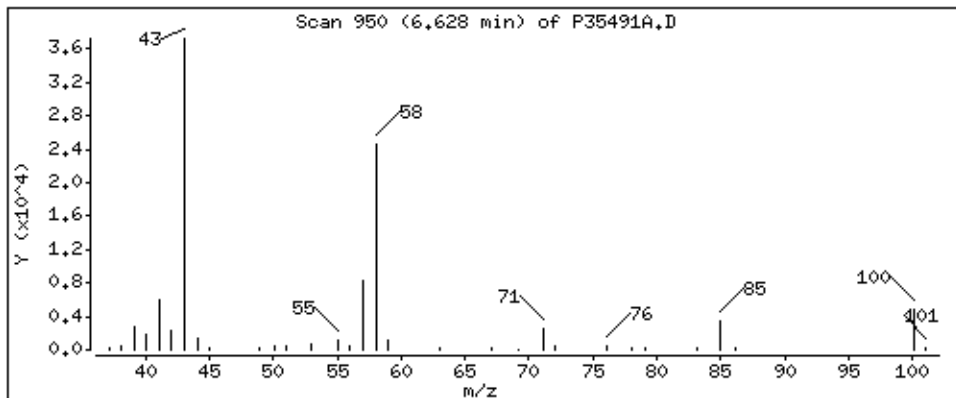
Review Code:



79 2-Hexanone

Concentration: 35,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

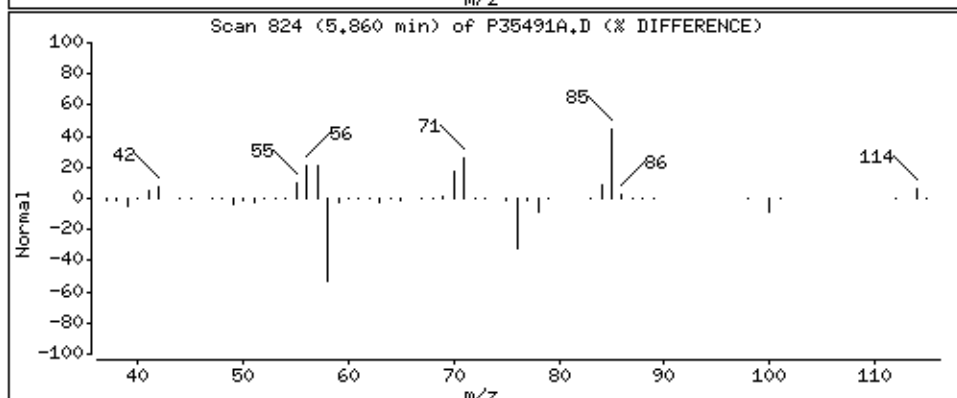
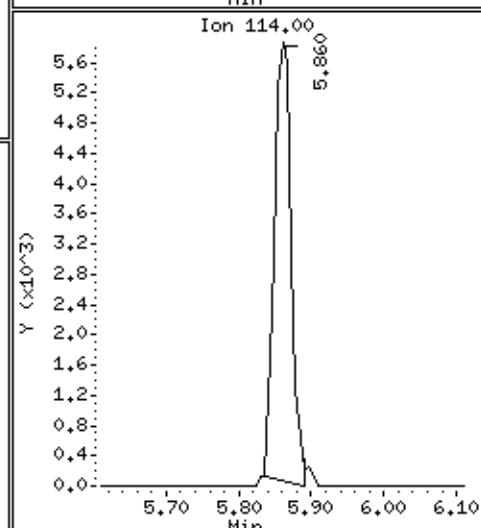
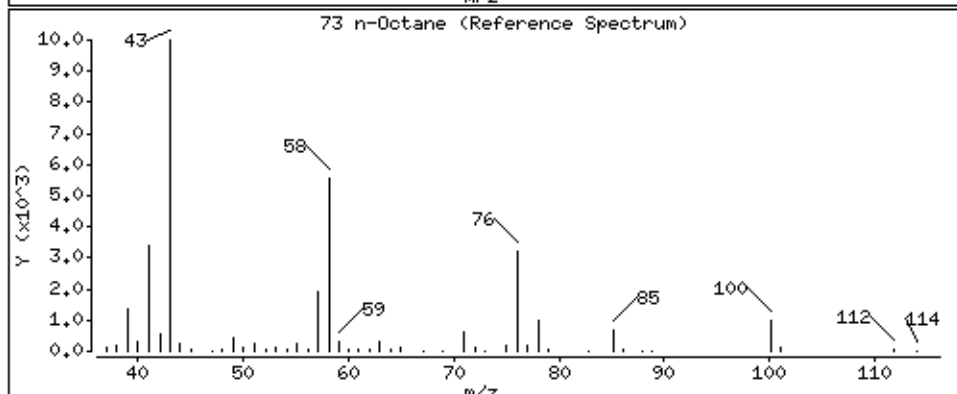
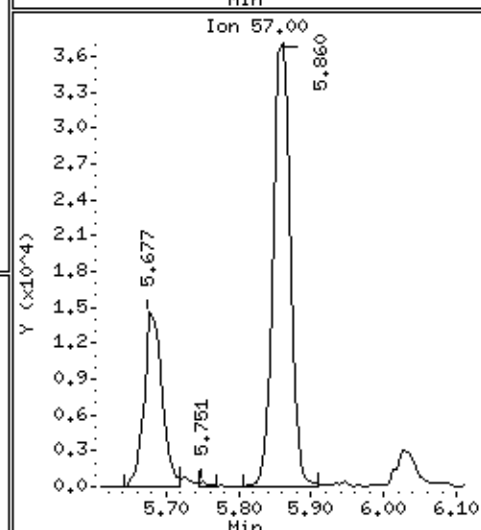
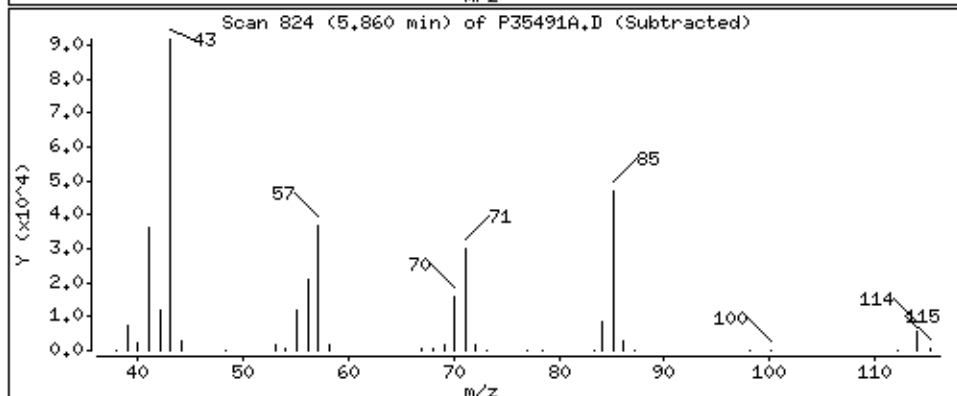
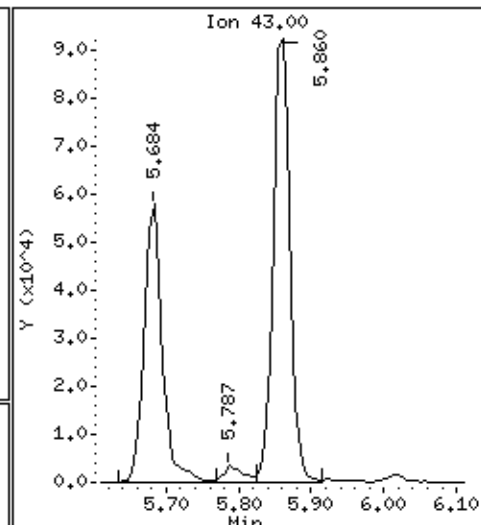
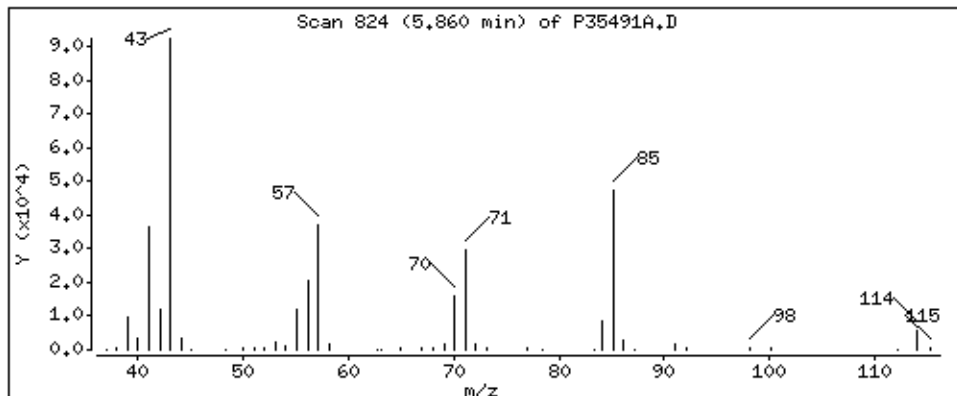
Column phase: RTX-624

Column diameter: 0.18

73 n-Octane

Concentration: 34.0 ug/L

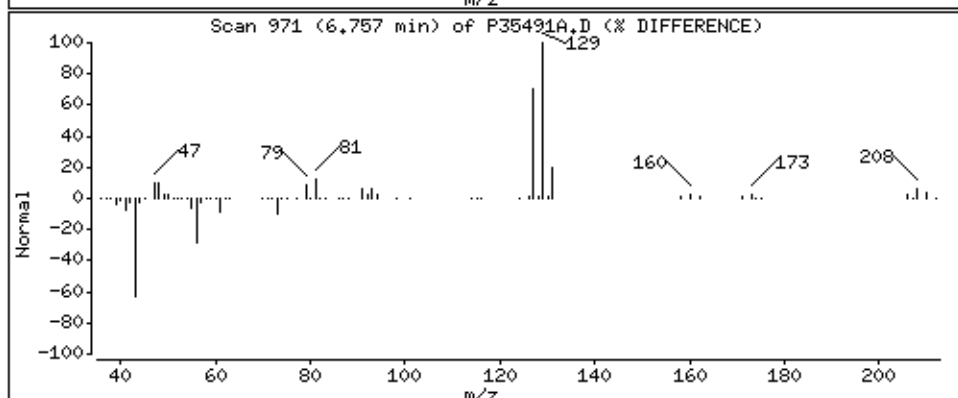
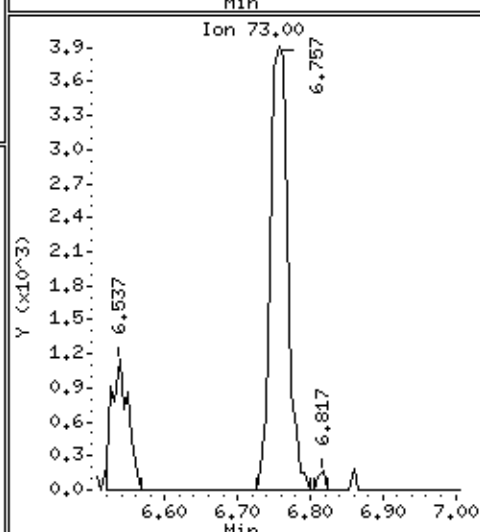
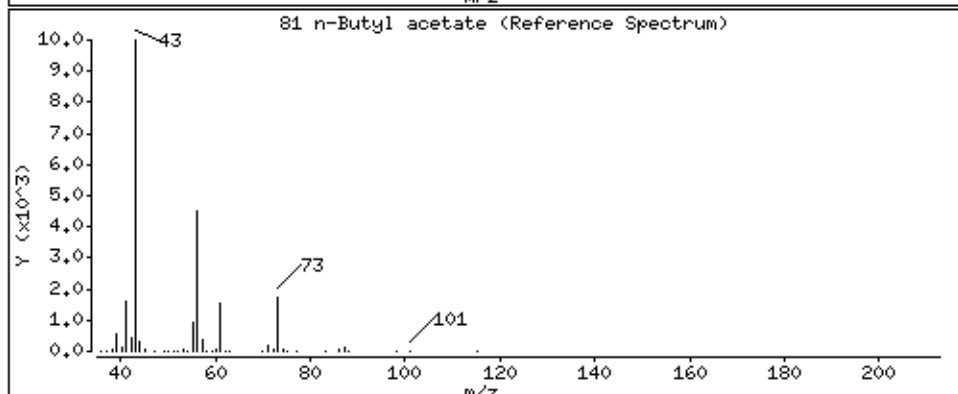
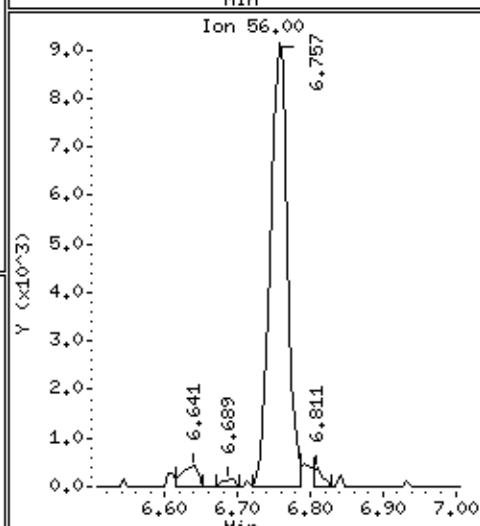
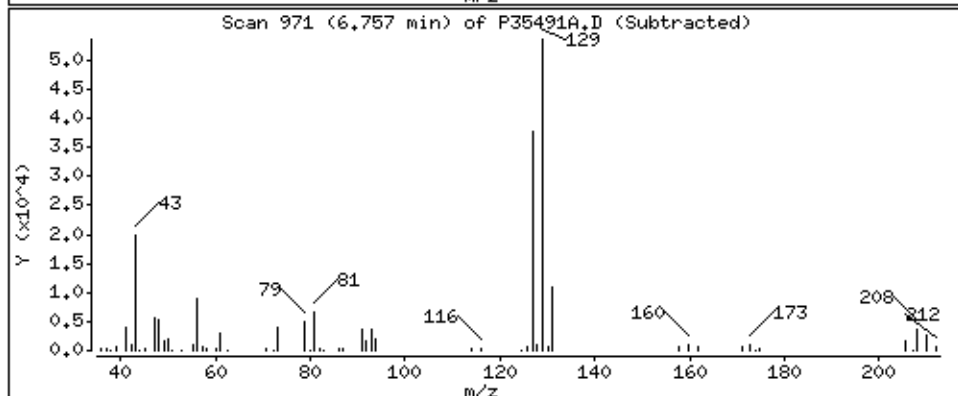
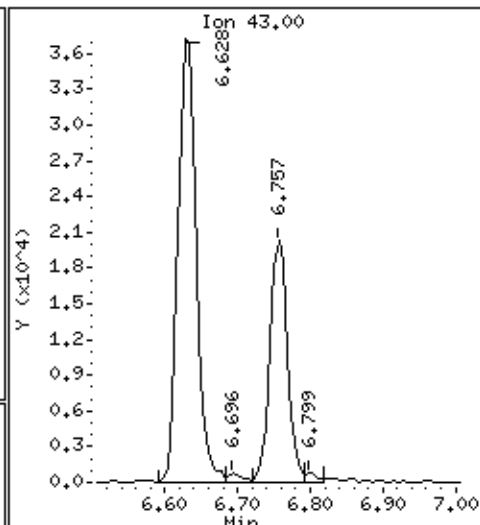
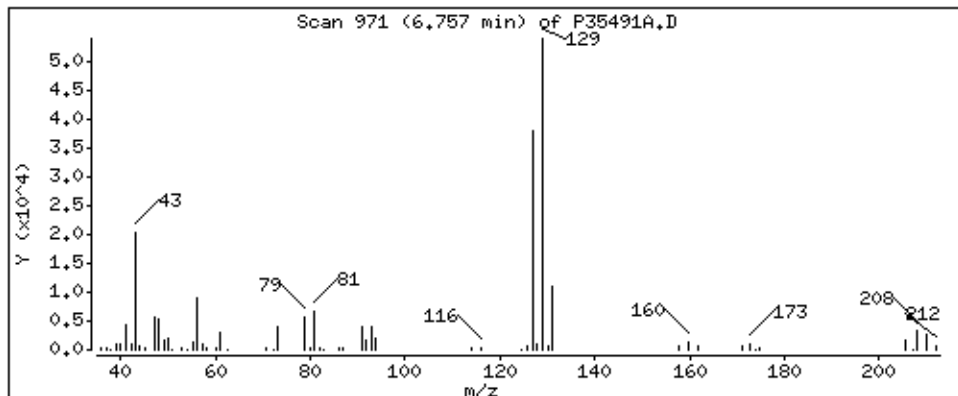
Review Code:



81 n-Butyl acetate

Concentration: 45,7 ug/L

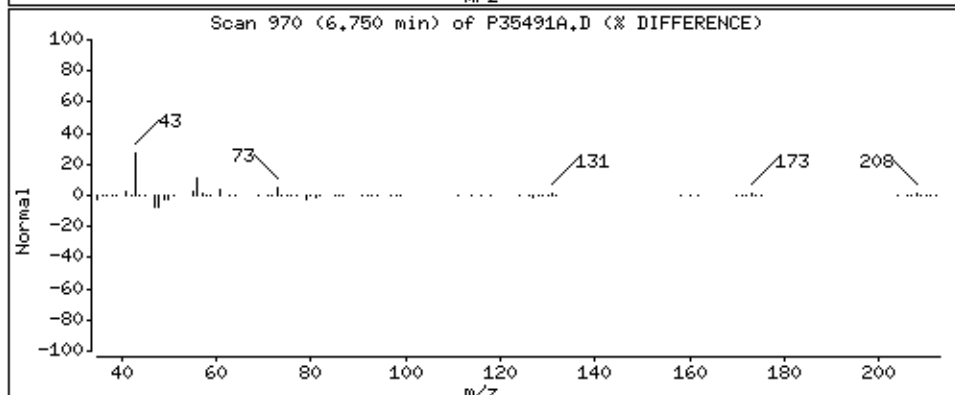
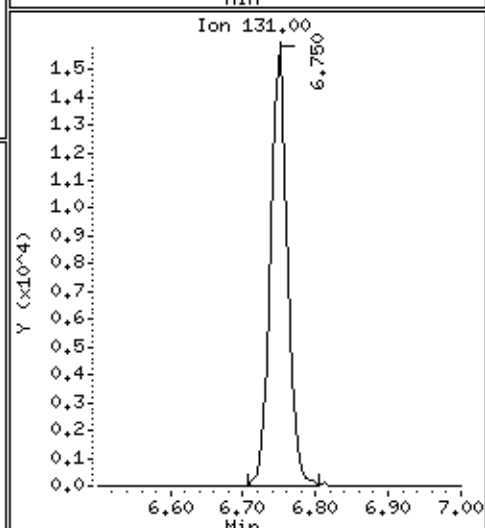
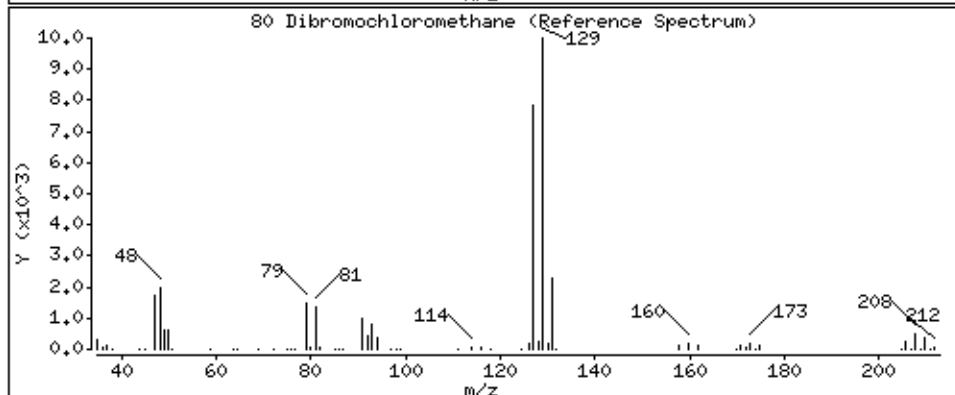
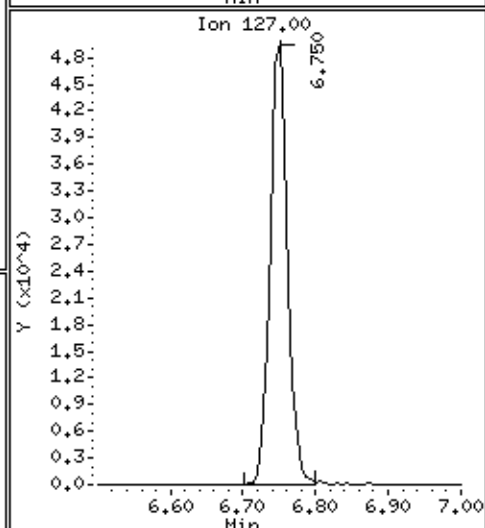
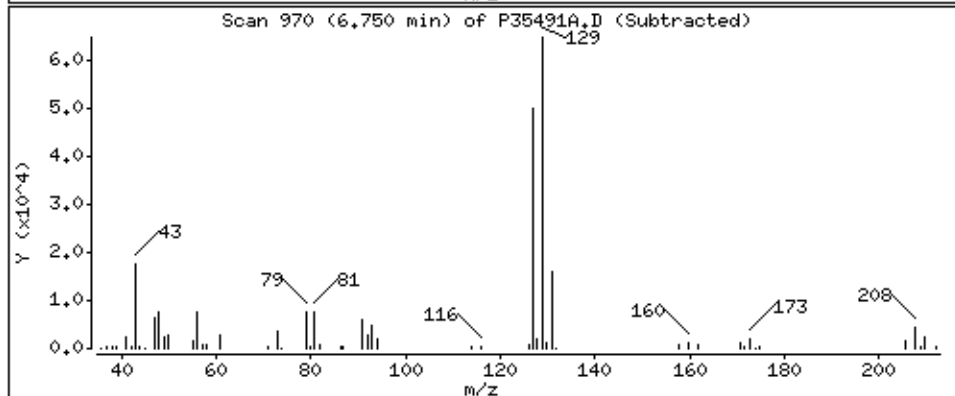
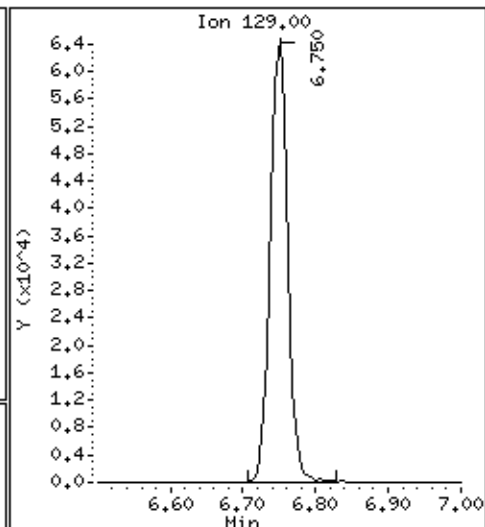
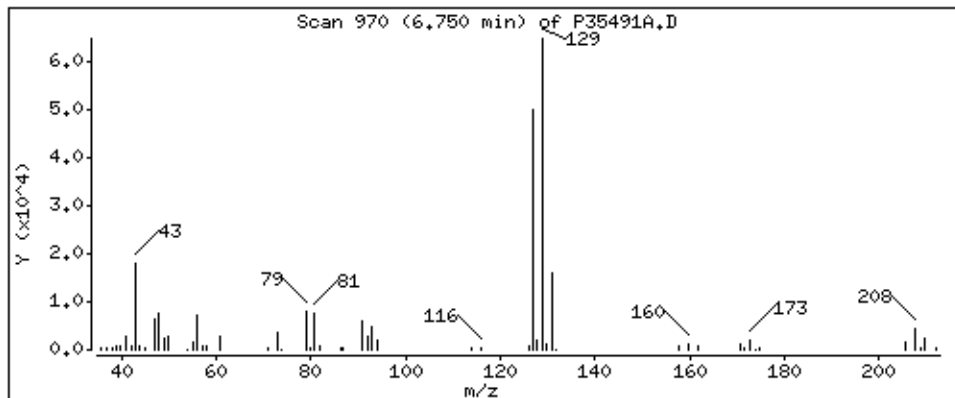
Review Code:



80 Dibromochloromethane

Concentration: 46.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

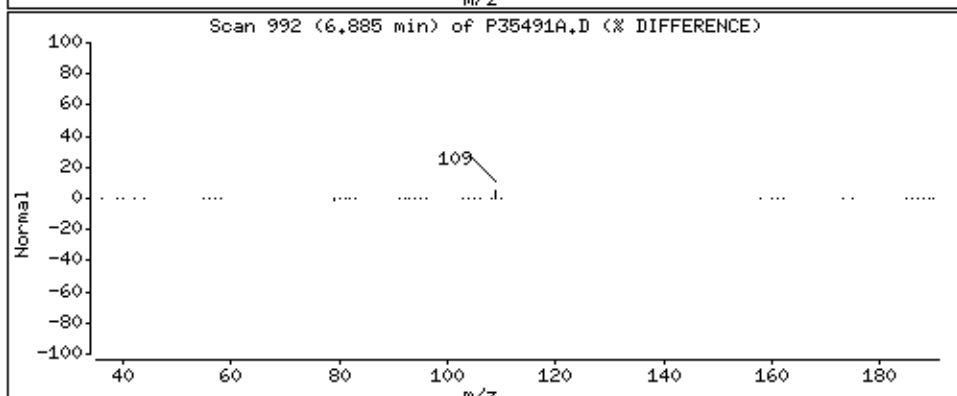
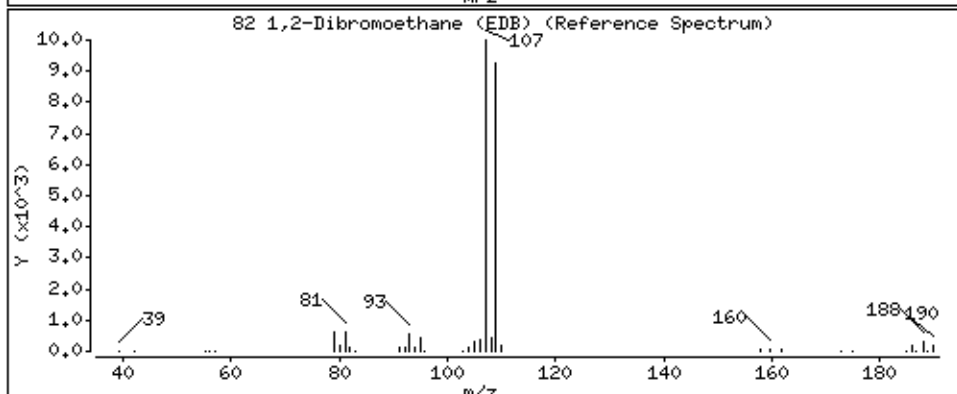
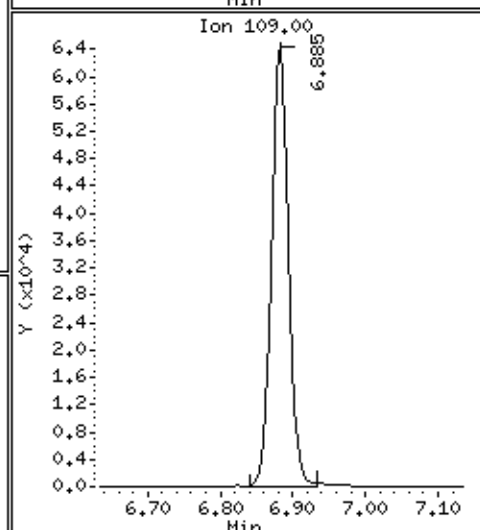
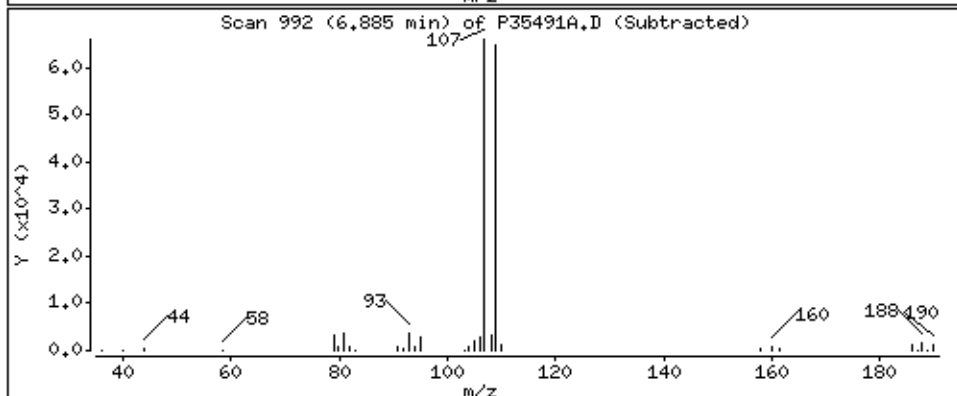
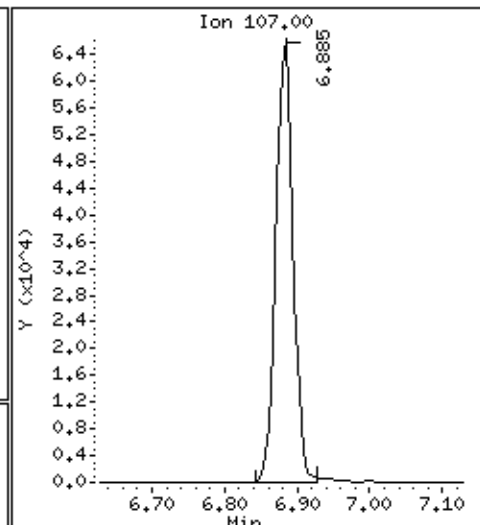
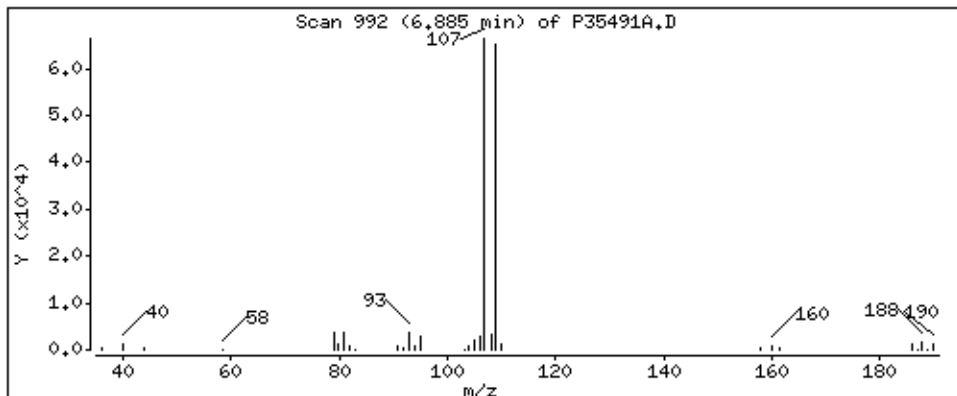
Column phase: RTX-624

Column diameter: 0,18

82 1,2-Dibromoethane (EDB)

Concentration: 46,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

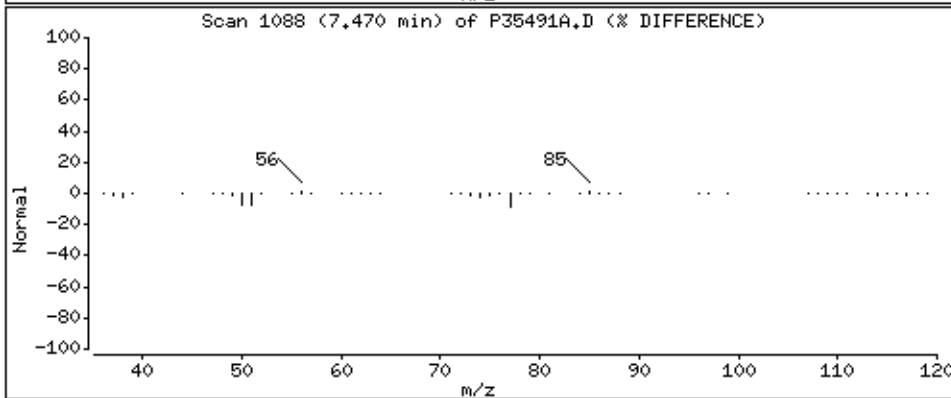
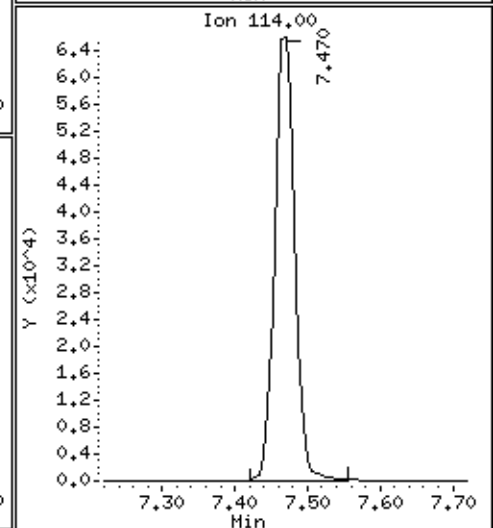
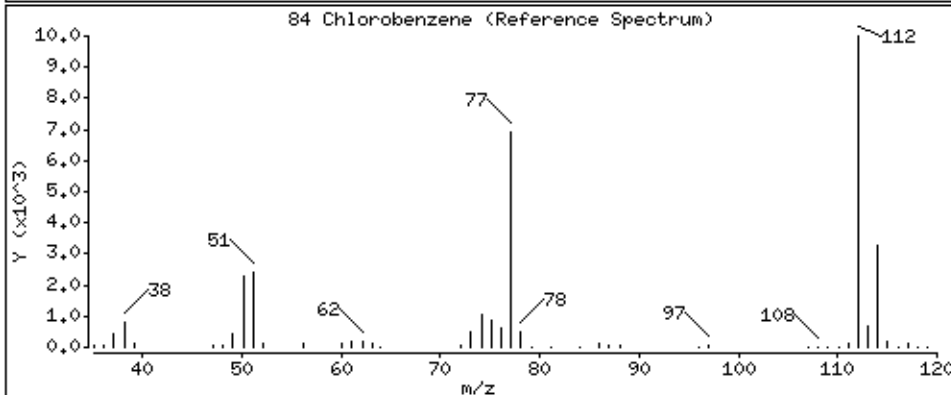
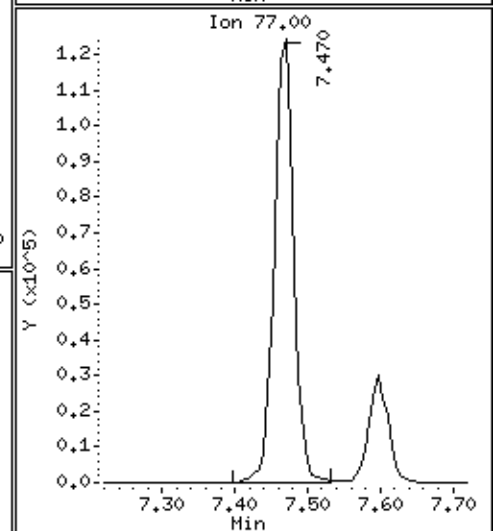
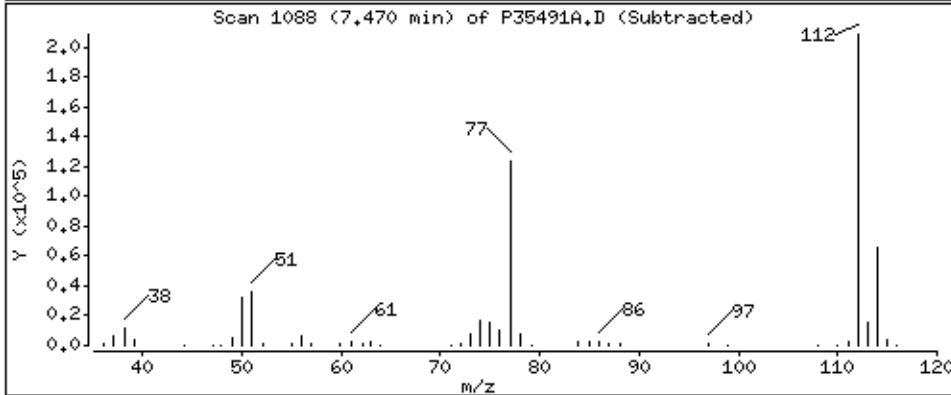
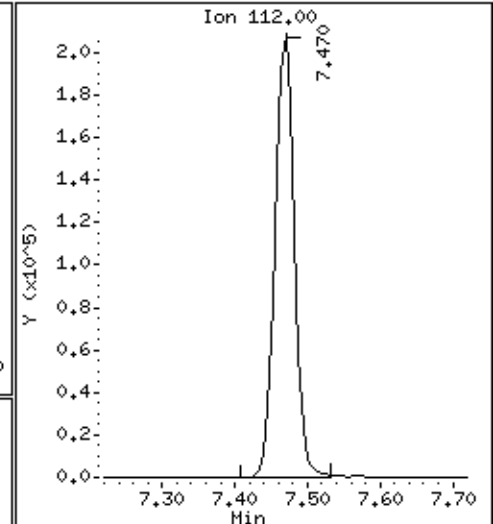
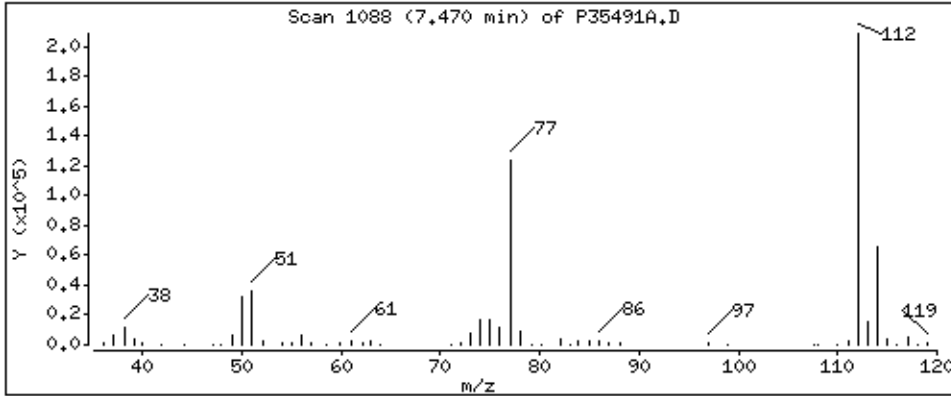
Column phase: RTX-624

Column diameter: 0,18

84 Chlorobenzene

Concentration: 48,8 ug/L

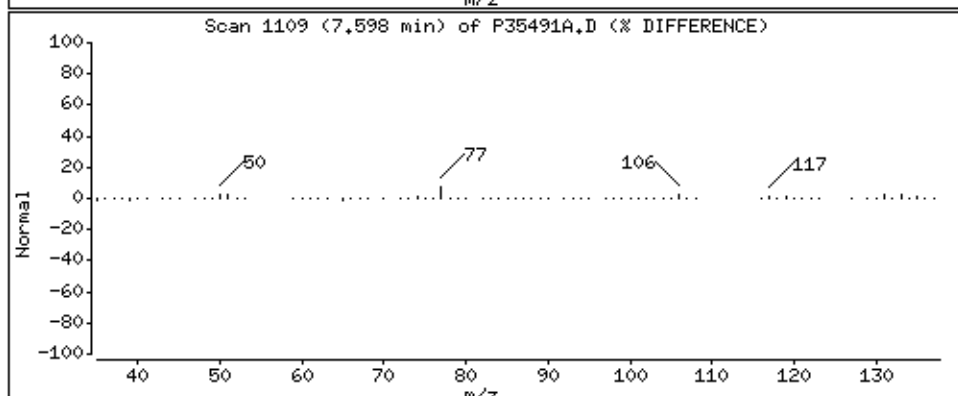
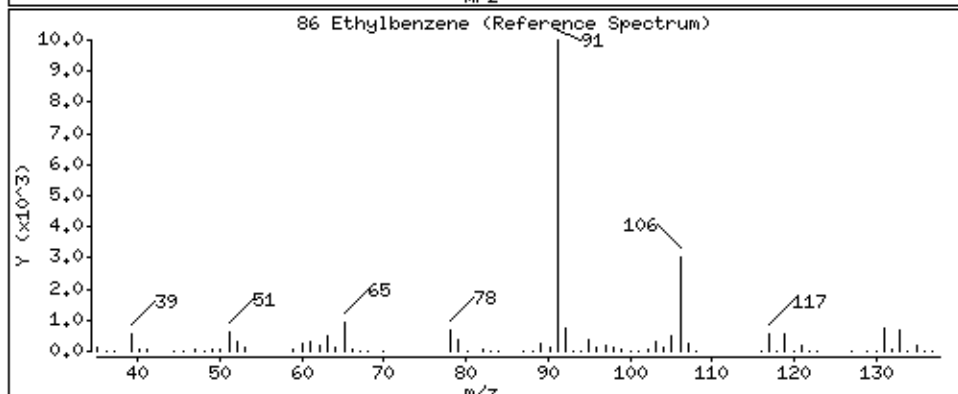
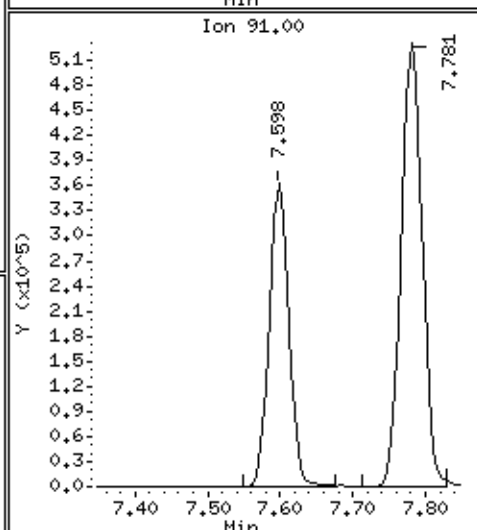
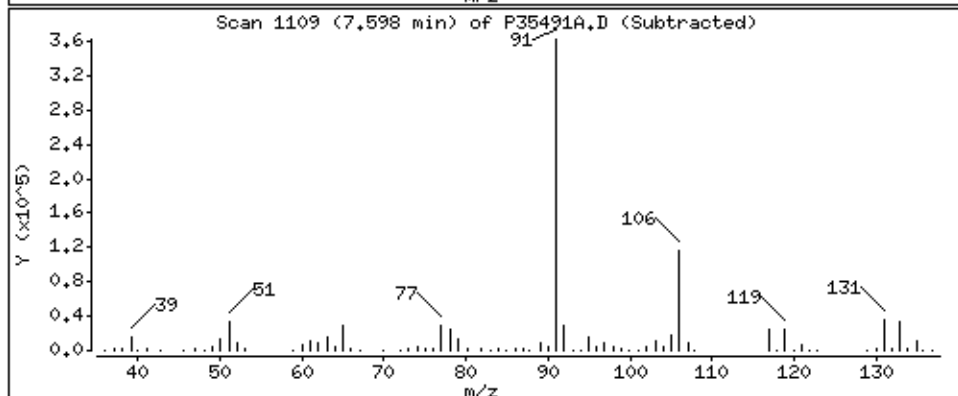
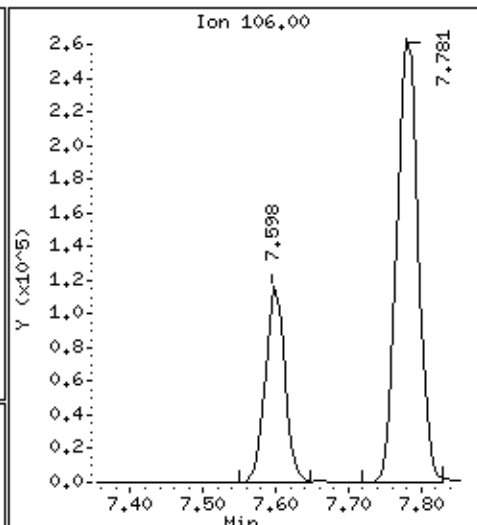
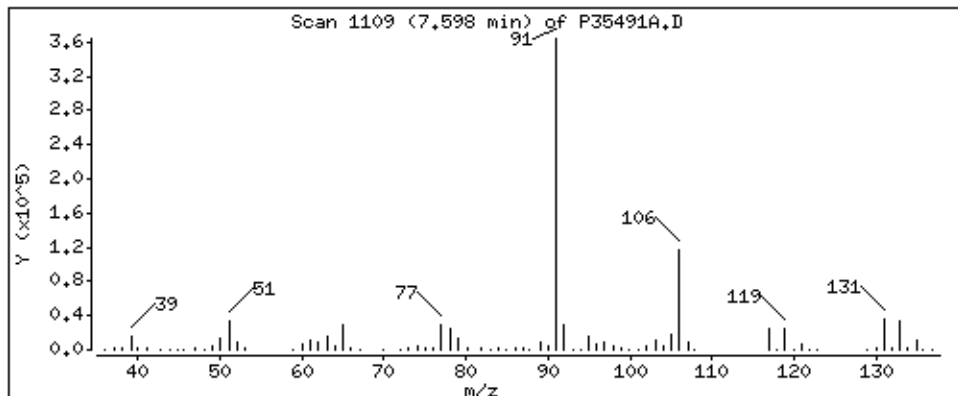
Review Code:



86 Ethylbenzene

Concentration: 47.1 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

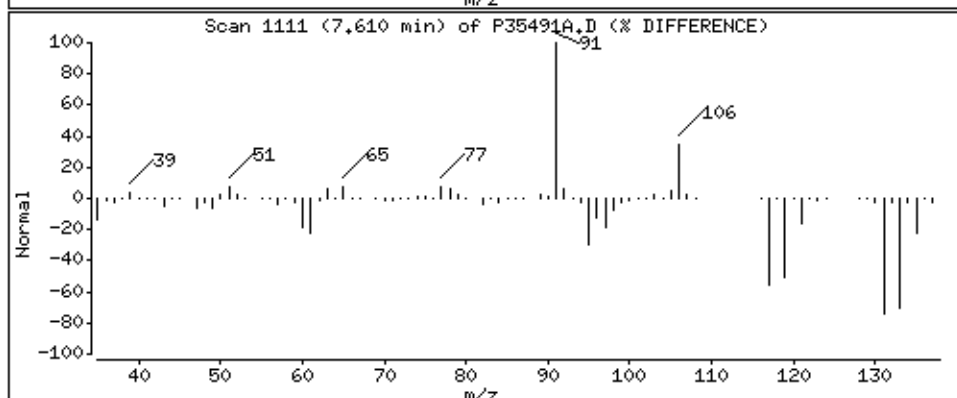
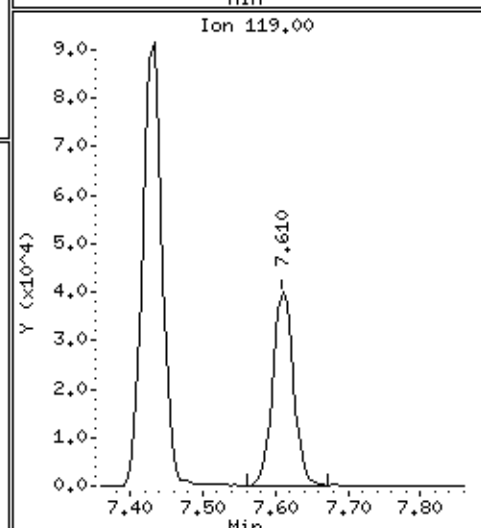
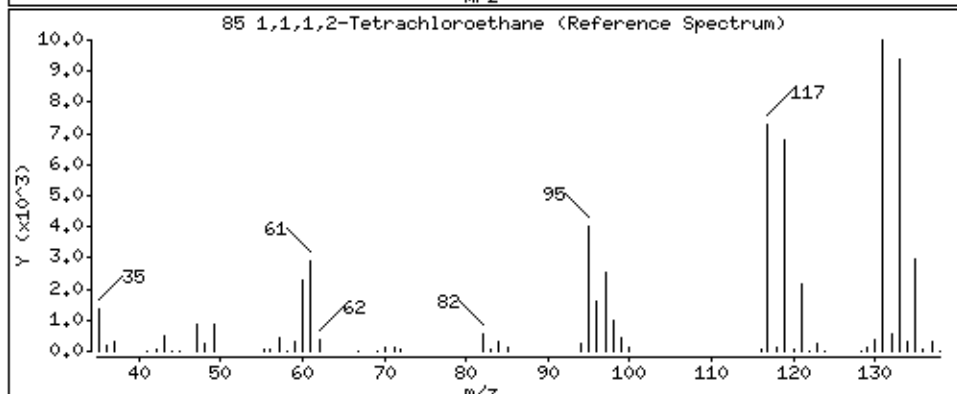
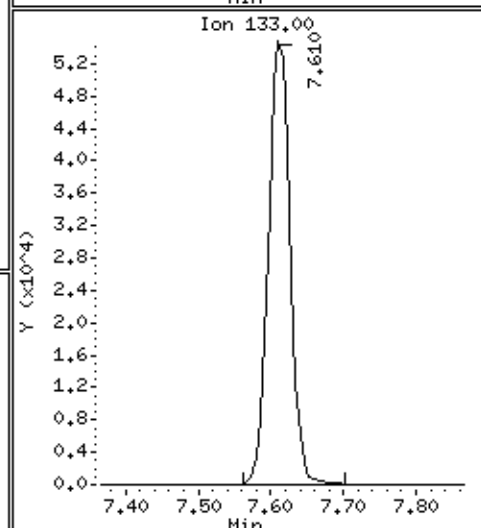
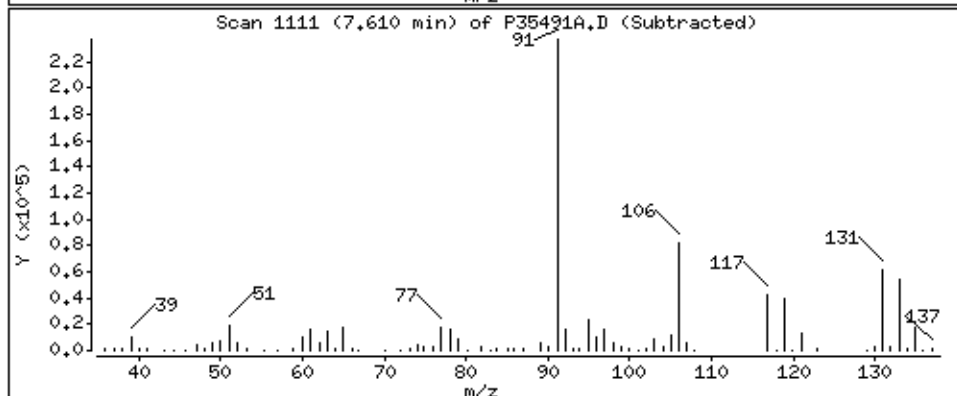
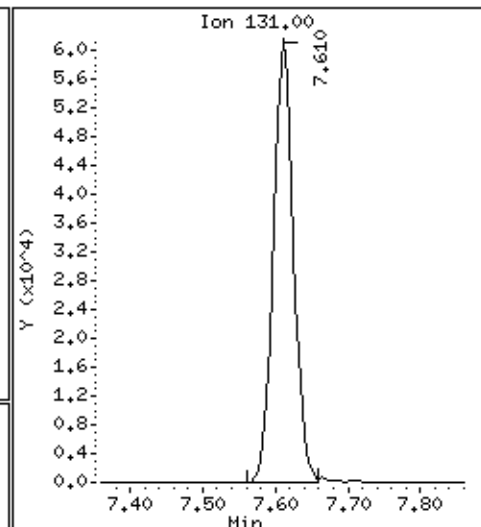
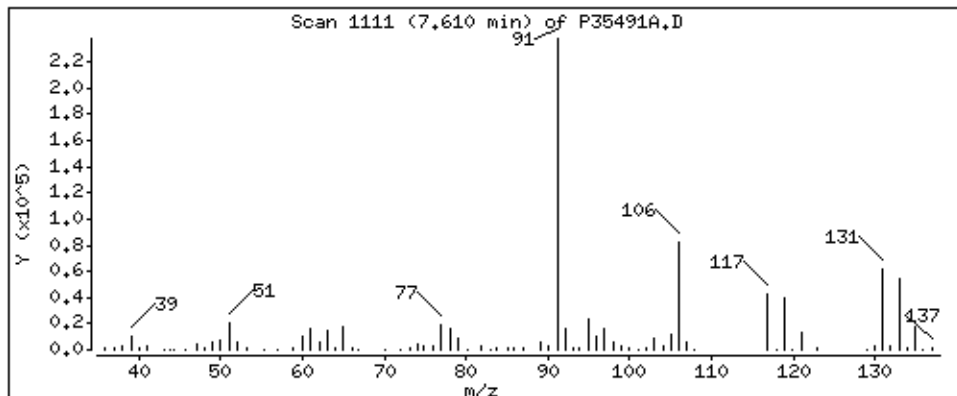
Column phase: RTX-624

Column diameter: 0,18

85 1,1,1,2-Tetrachloroethane

Concentration: 48.4 ug/L

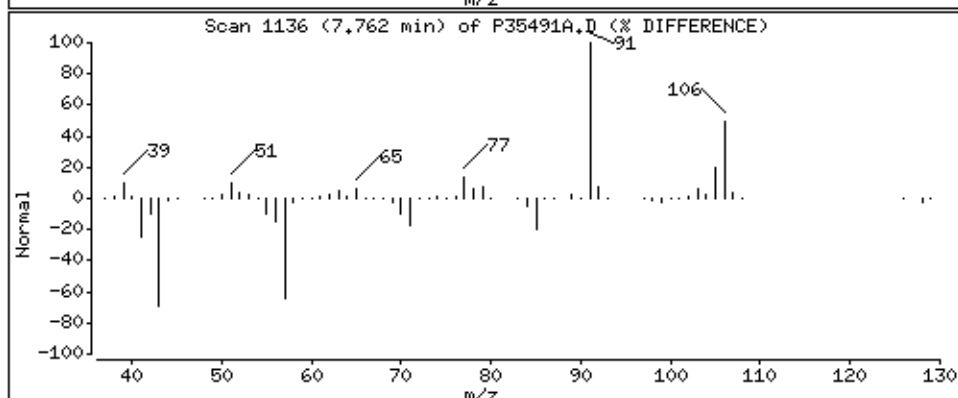
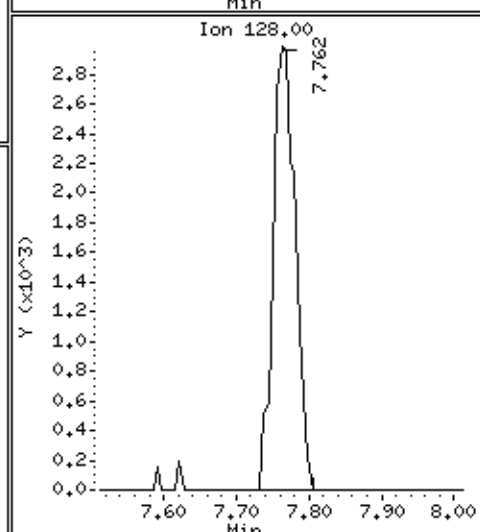
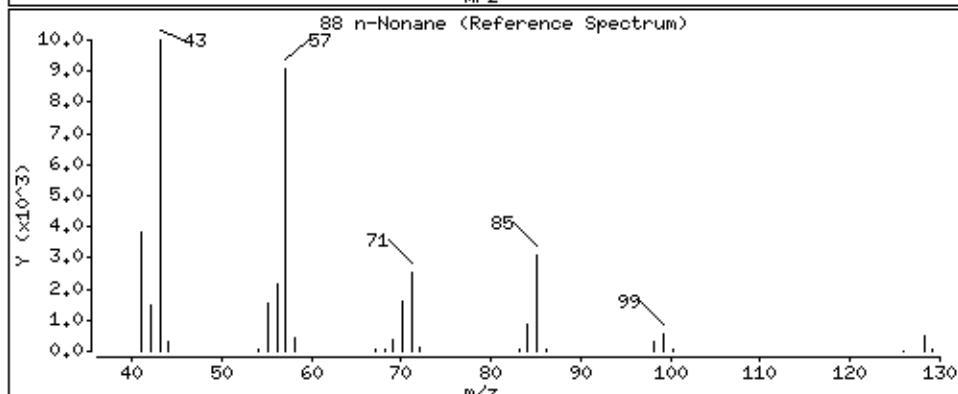
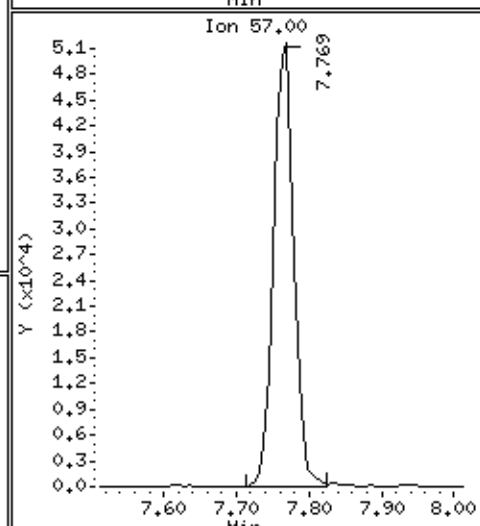
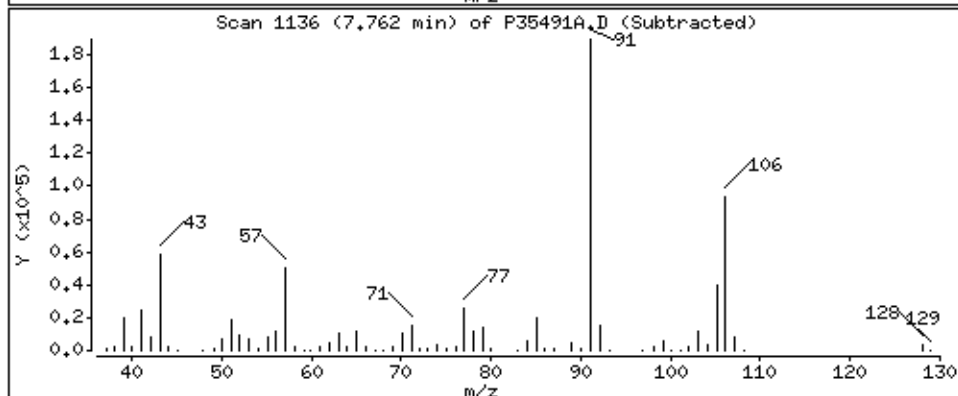
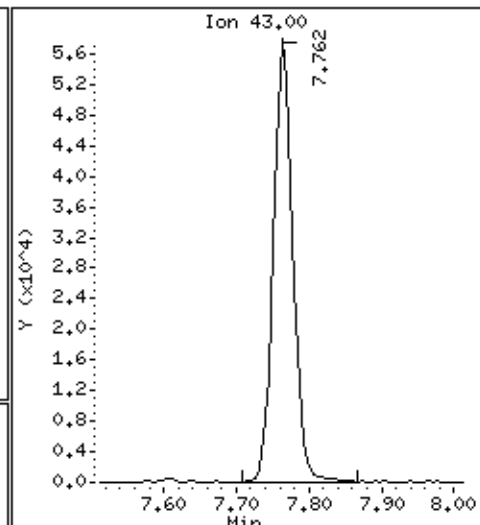
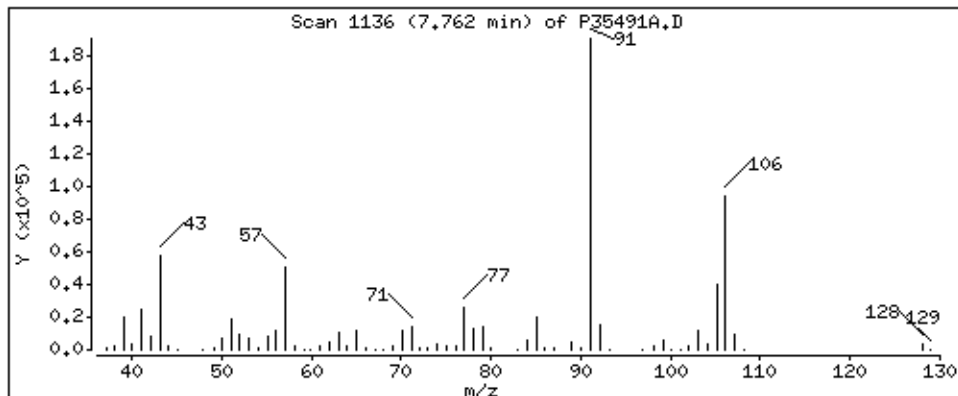
Review Code:



88 n-Nonane

Concentration: 34,8 ug/L

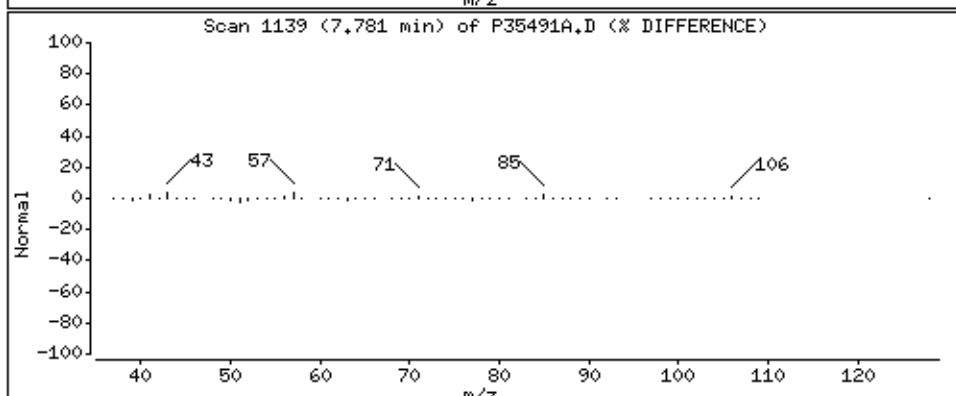
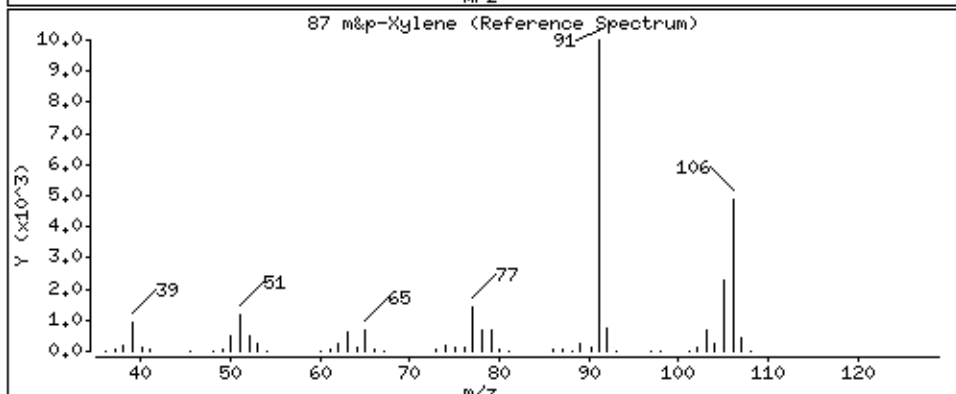
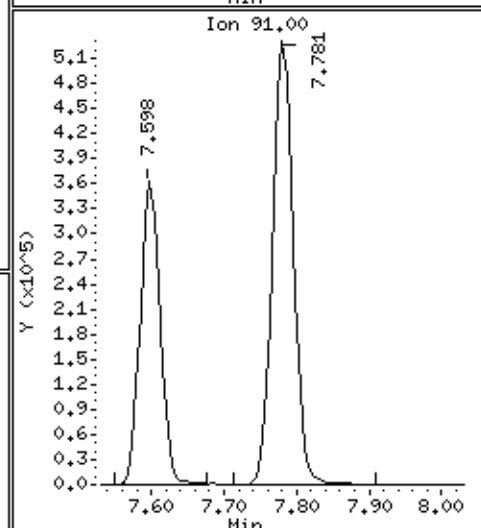
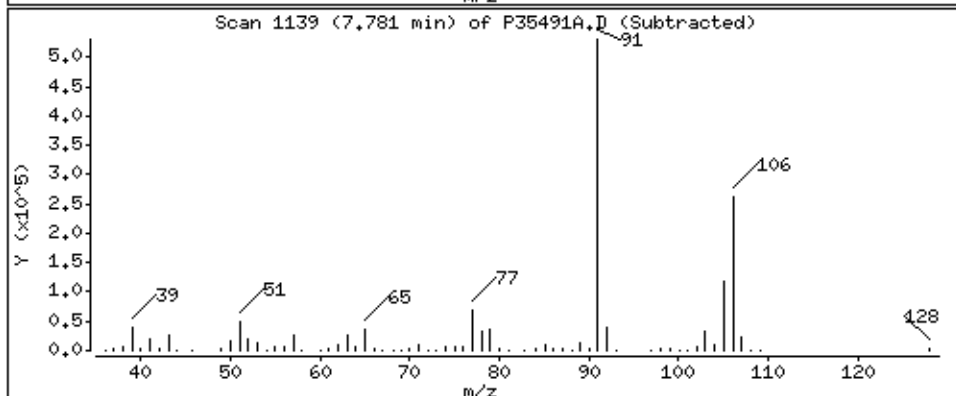
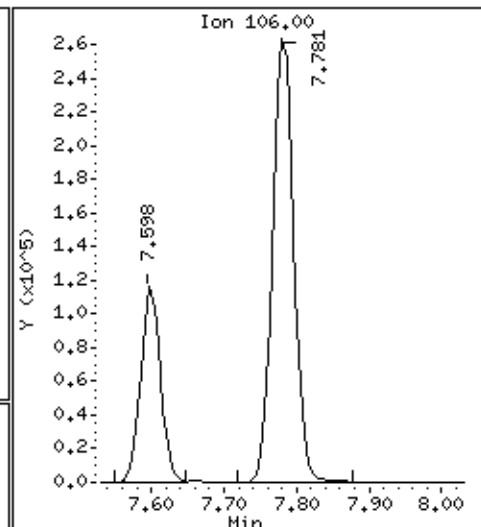
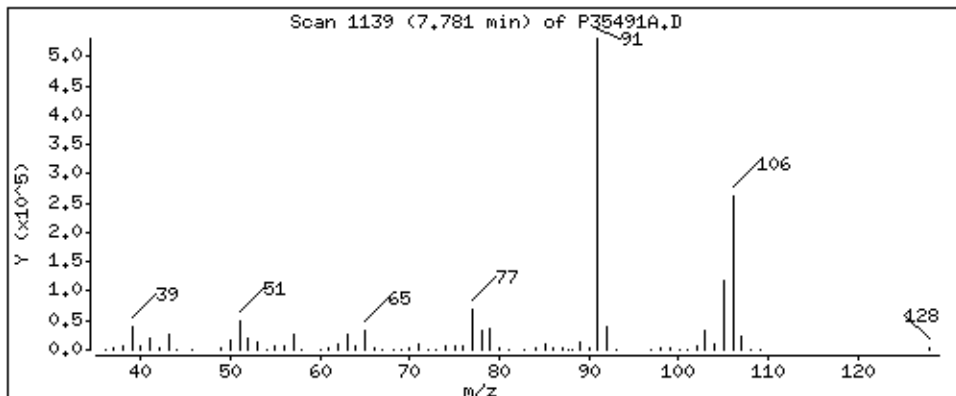
Review Code:



87 m&p-Xylene

Concentration: 97,3 ug/L

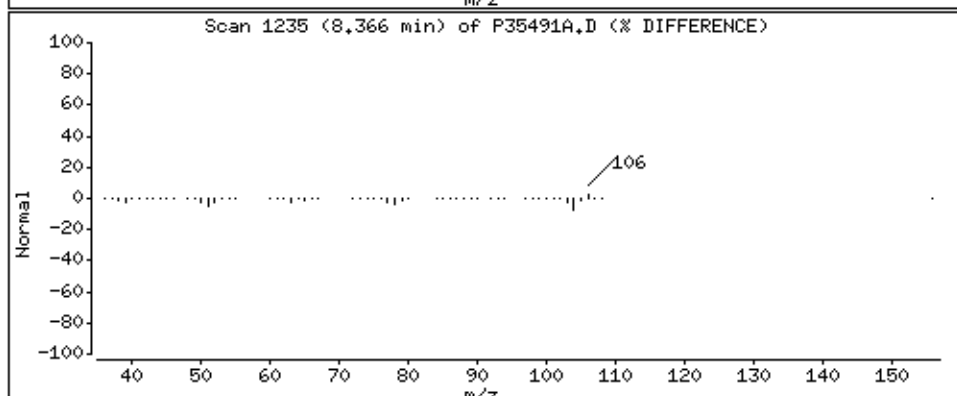
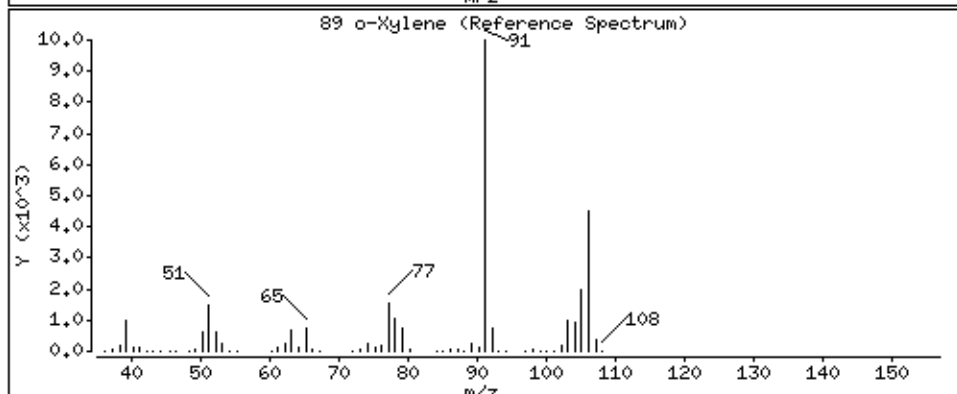
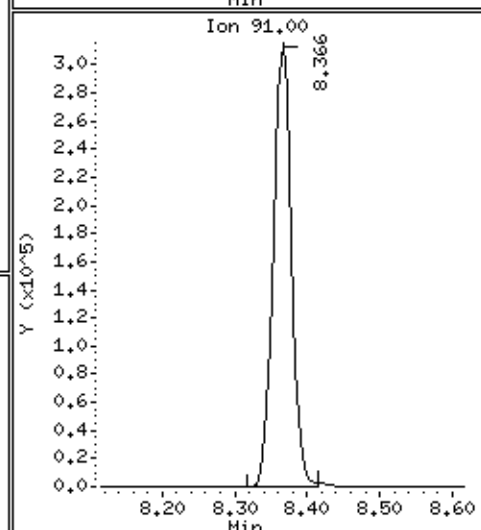
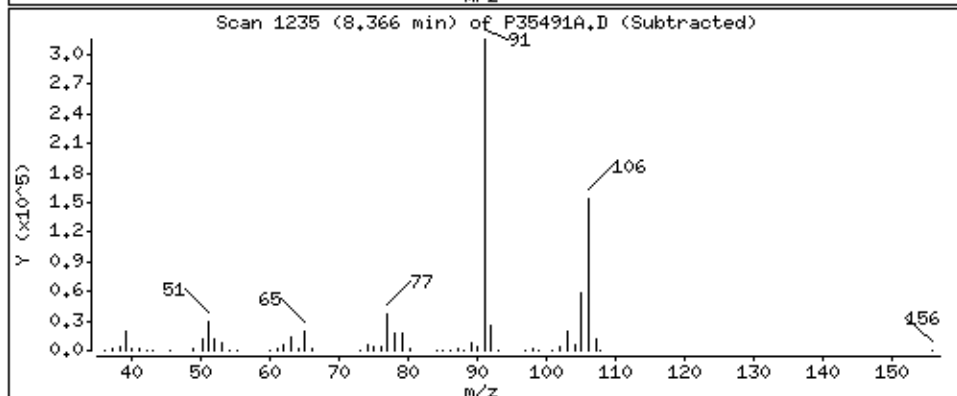
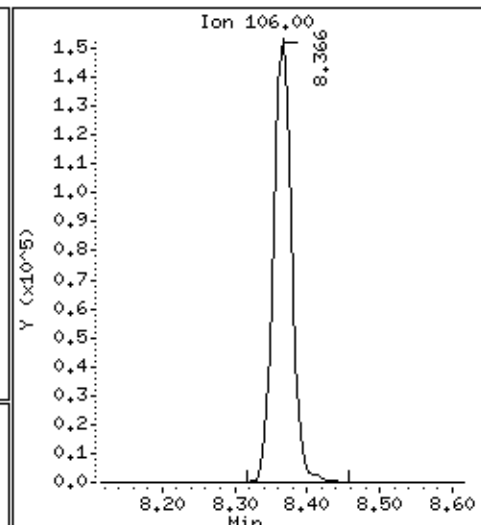
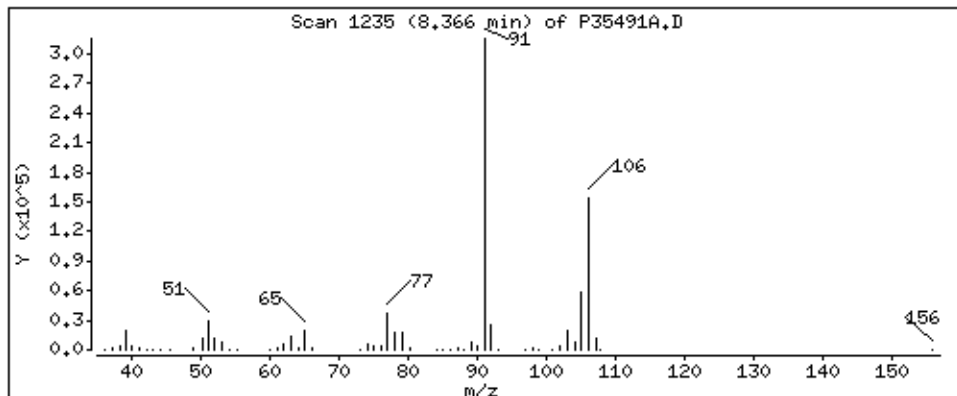
Review Code:



89 o-Xylene

Concentration: 51.4 ug/L

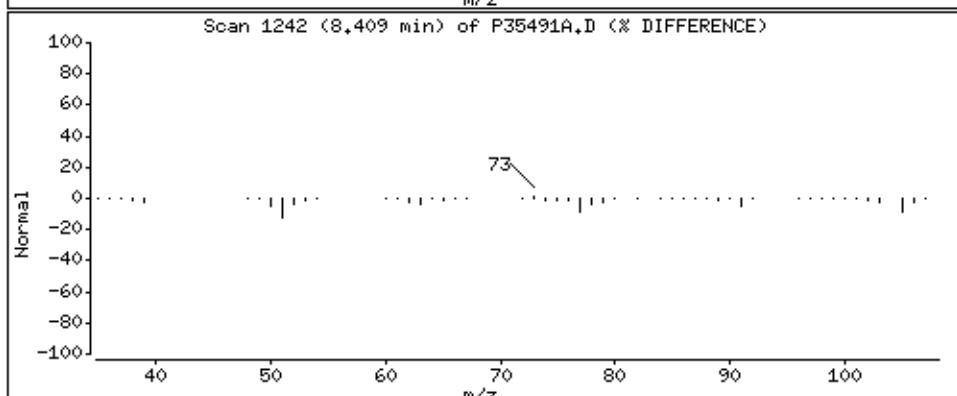
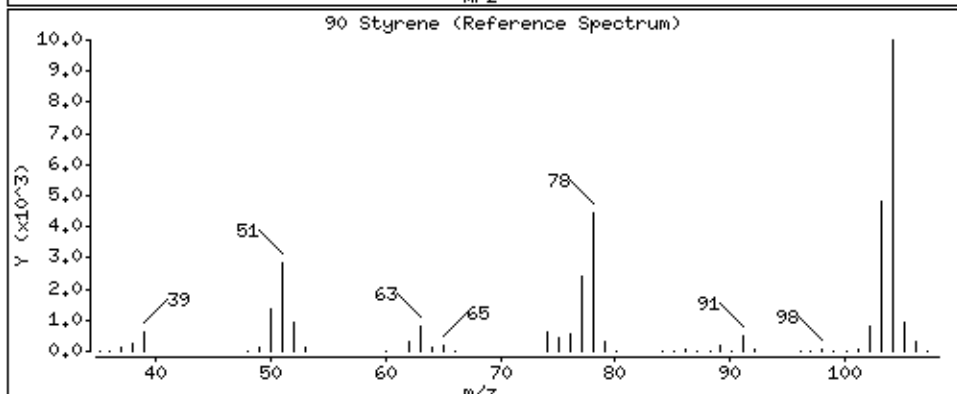
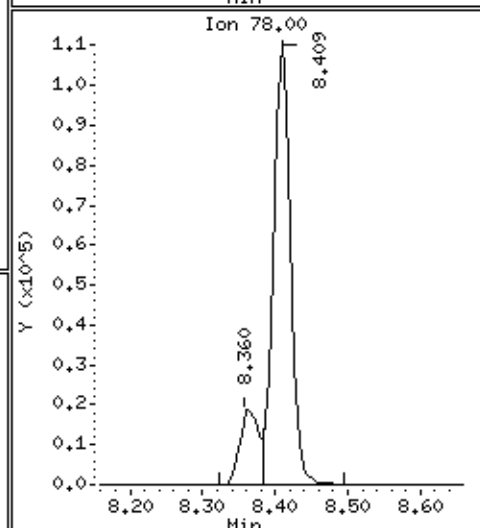
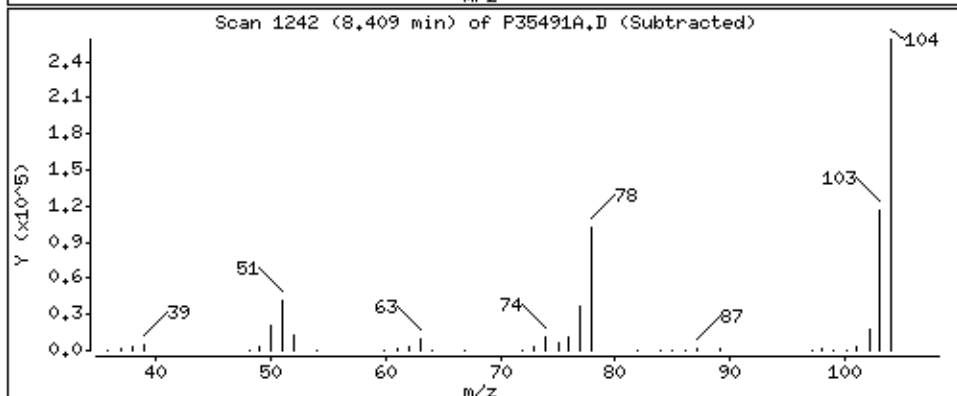
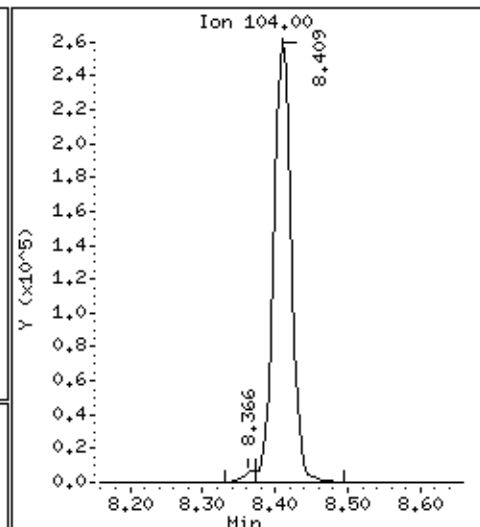
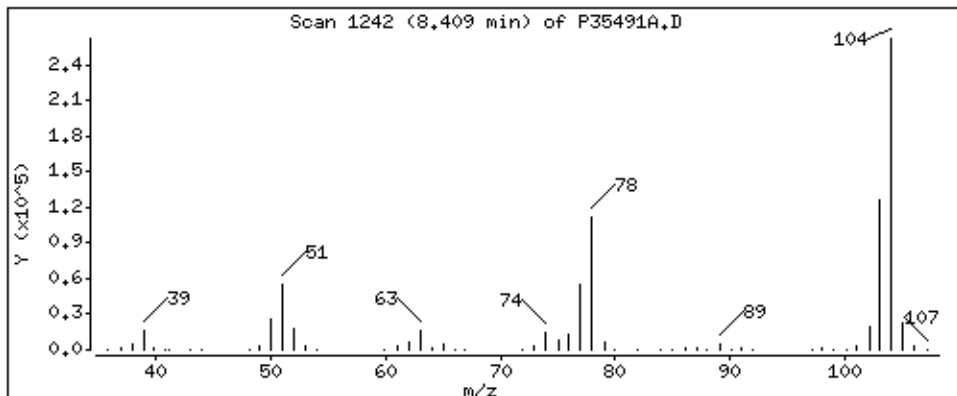
Review Code:



90 Styrene

Concentration: 51,5 ug/L

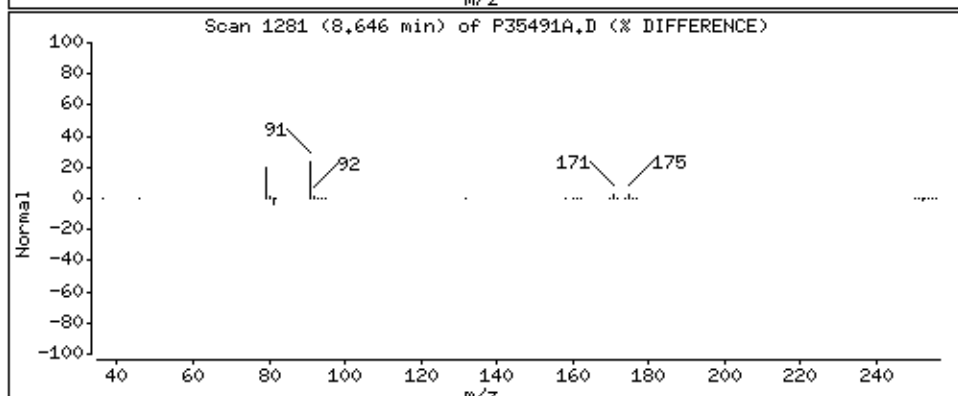
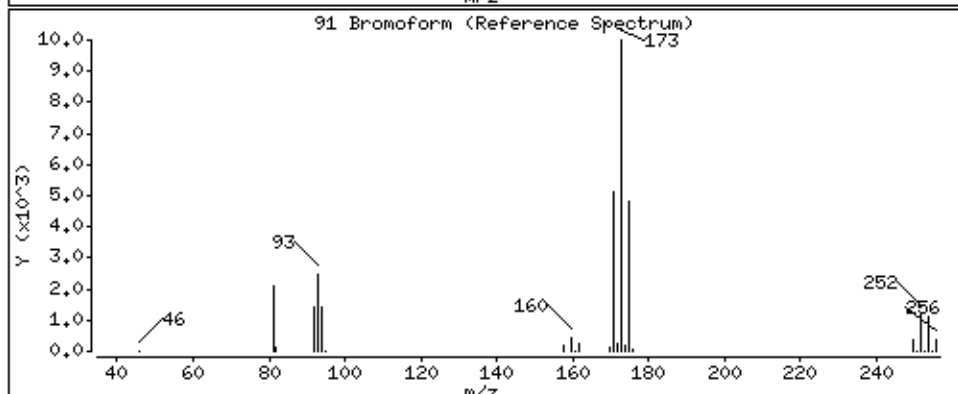
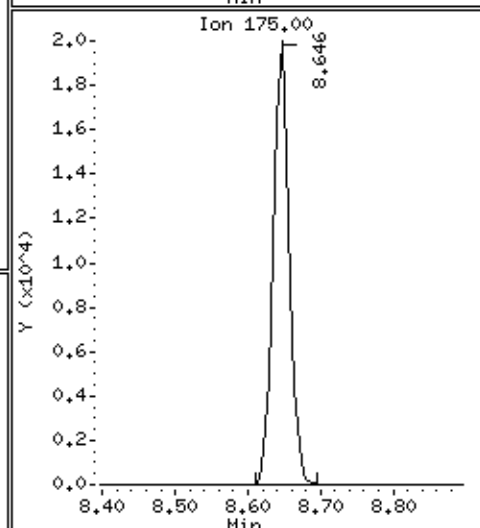
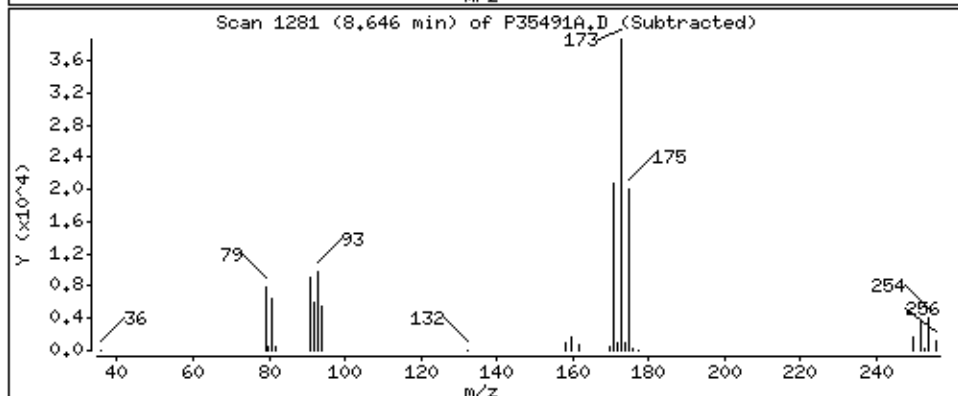
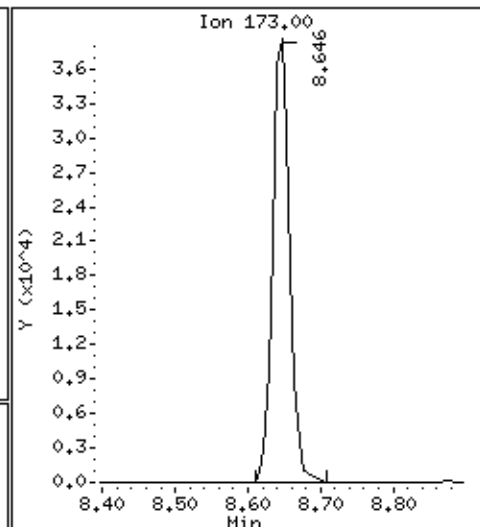
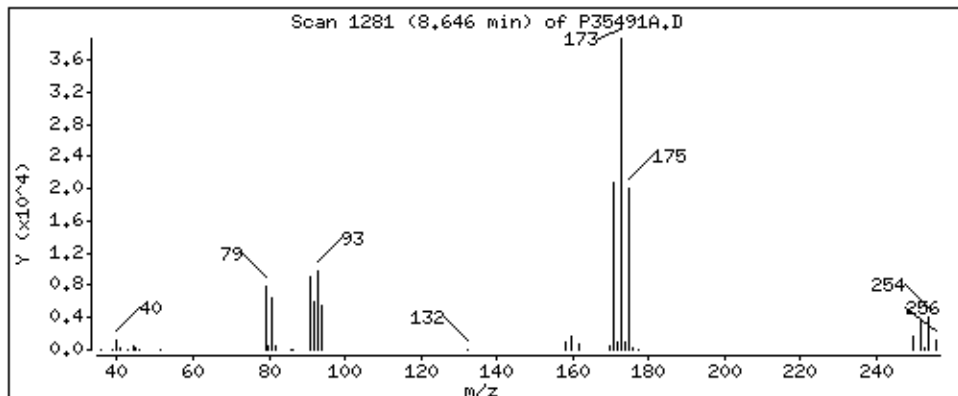
Review Code:



91 Bromoform

Concentration: 47.7 ug/L

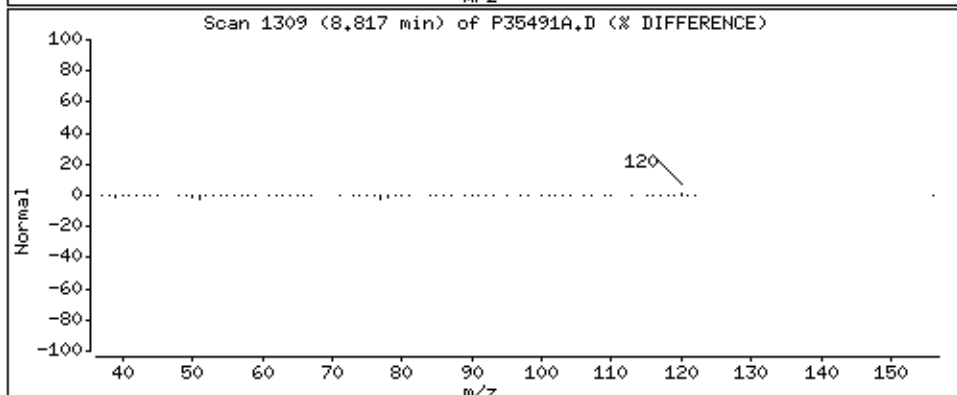
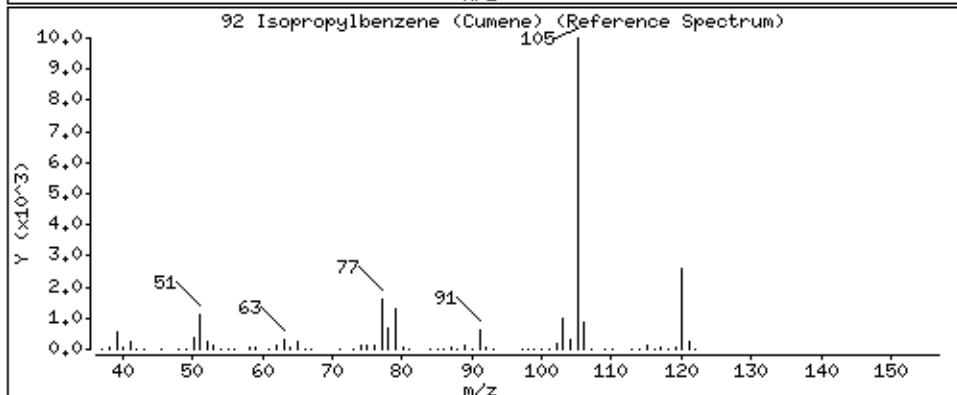
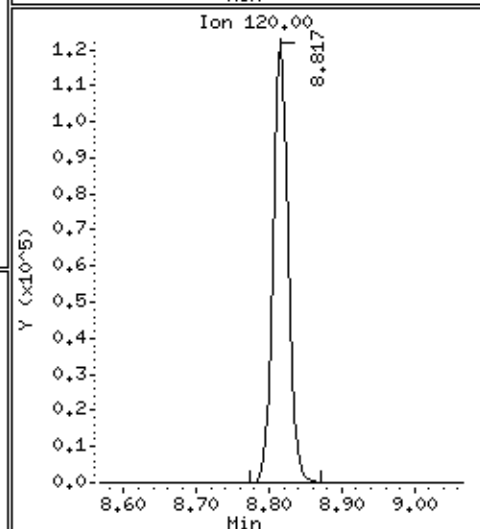
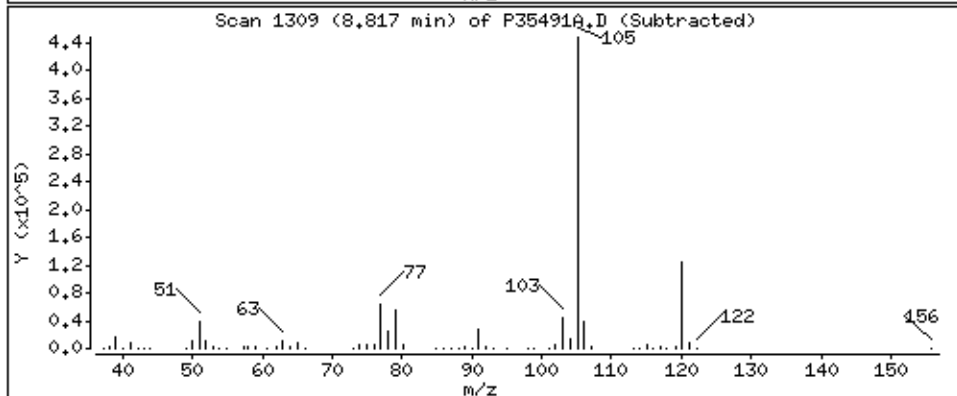
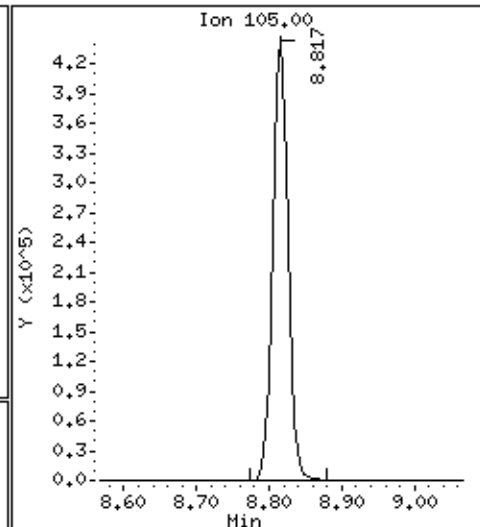
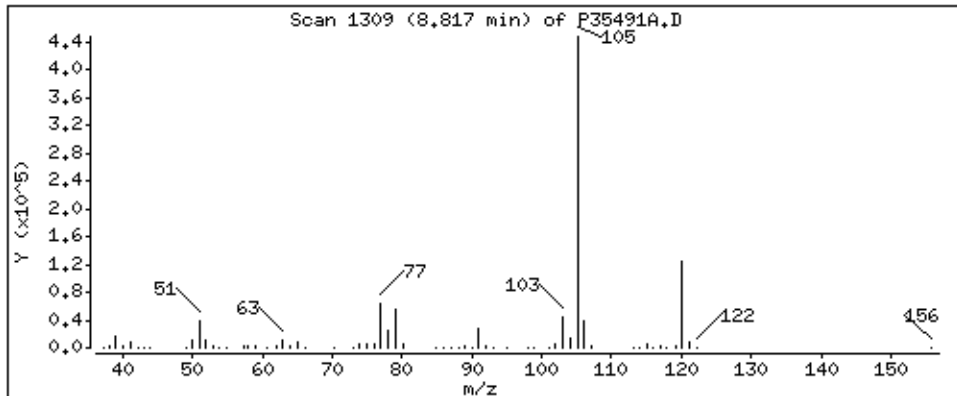
Review Code:



92 Isopropylbenzene (Cumene)

Concentration: 46,2 ug/L

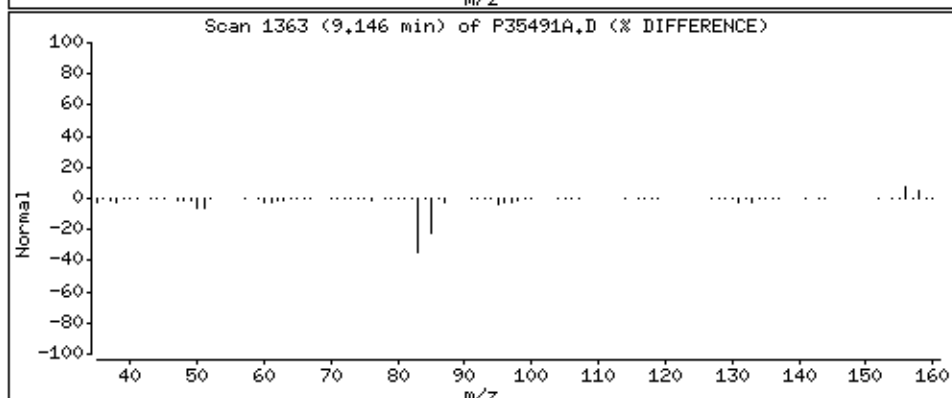
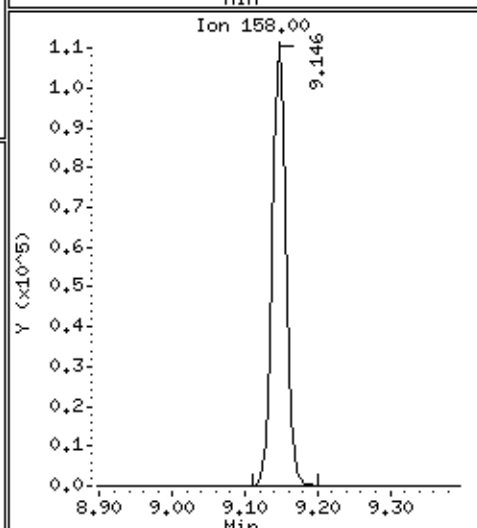
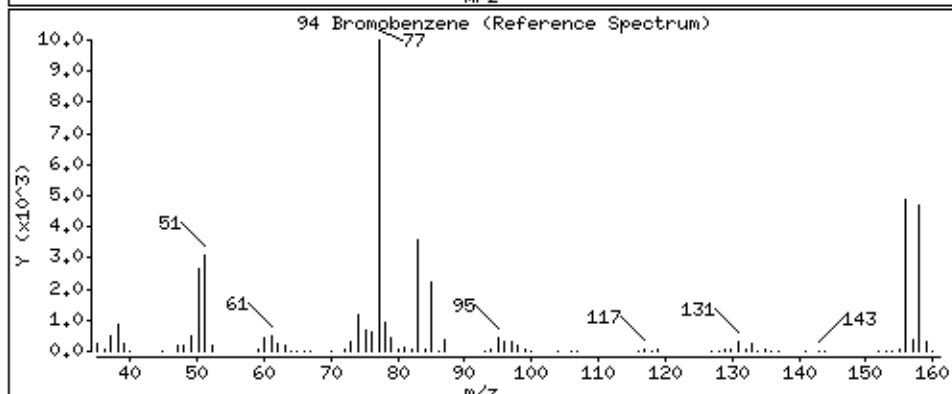
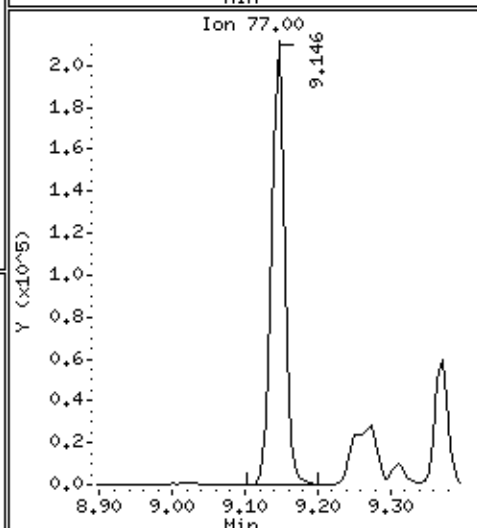
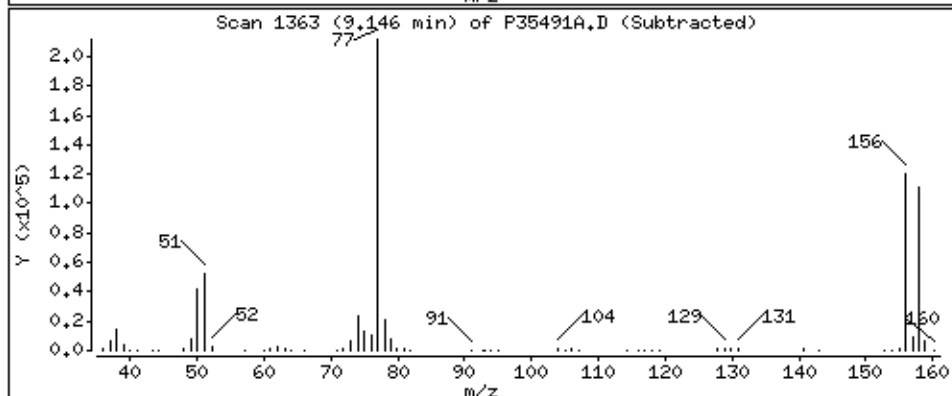
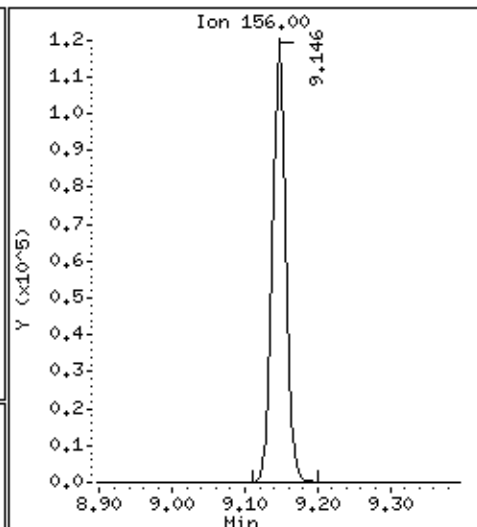
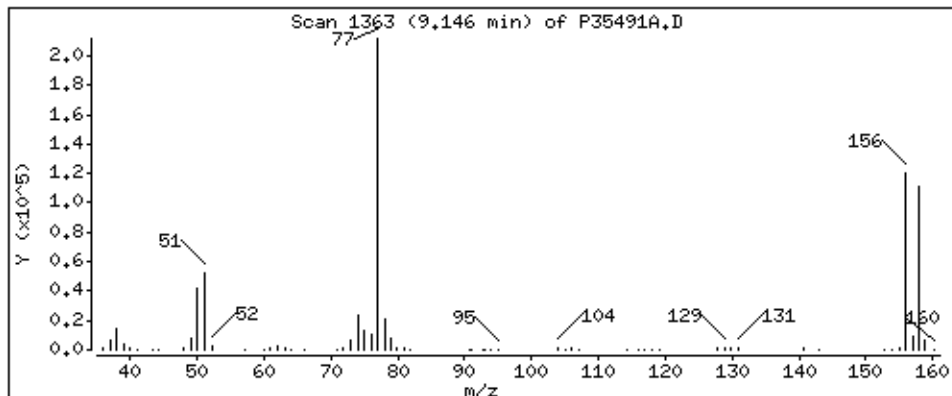
Review Code:



94 Bromobenzene

Concentration: 49.0 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

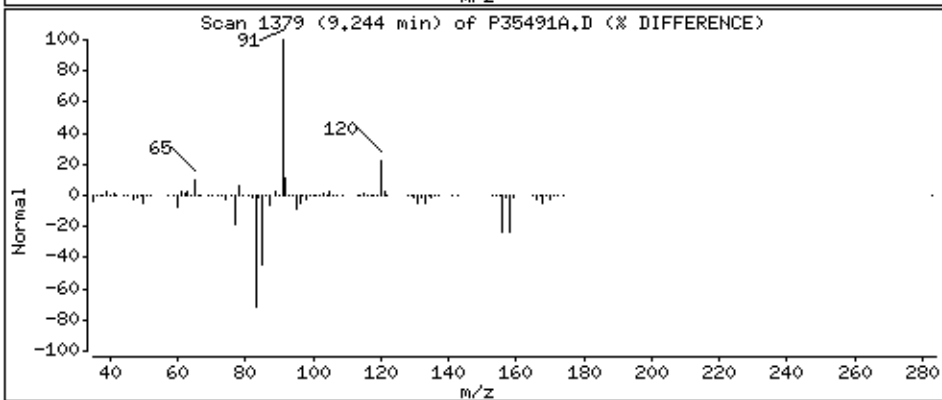
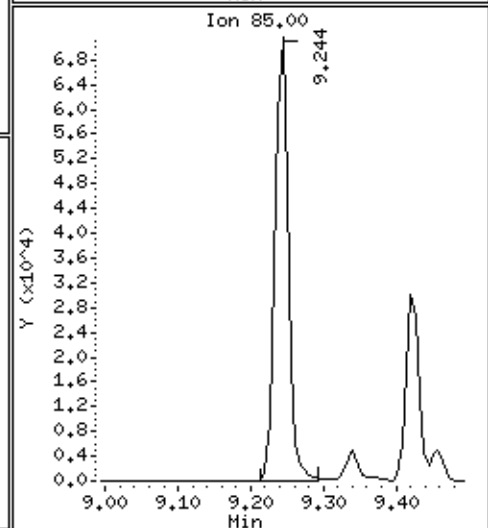
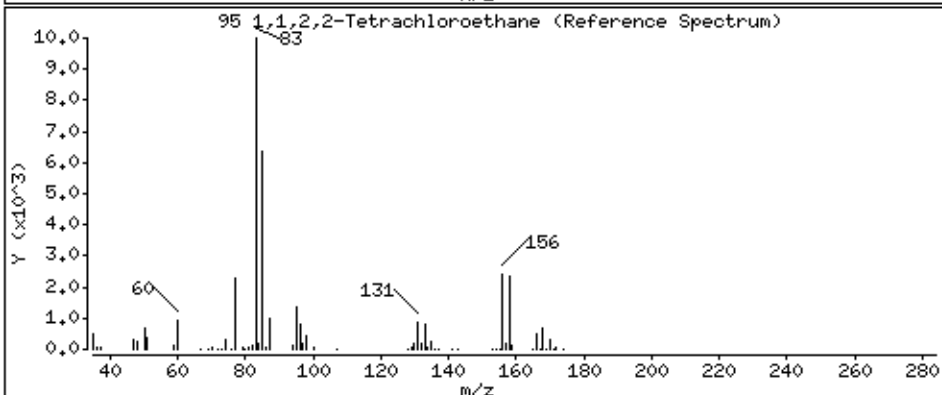
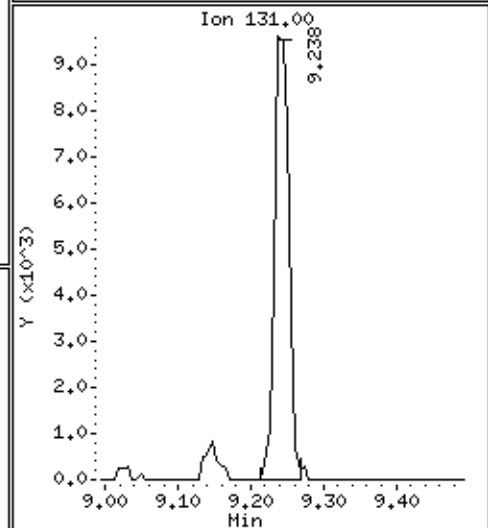
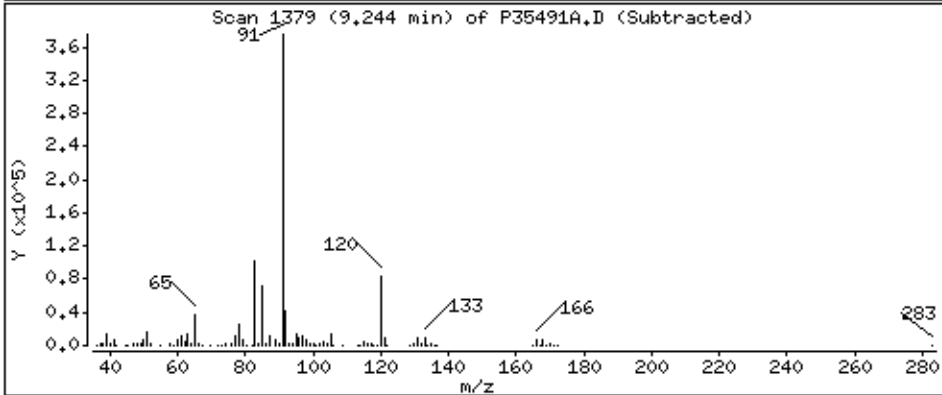
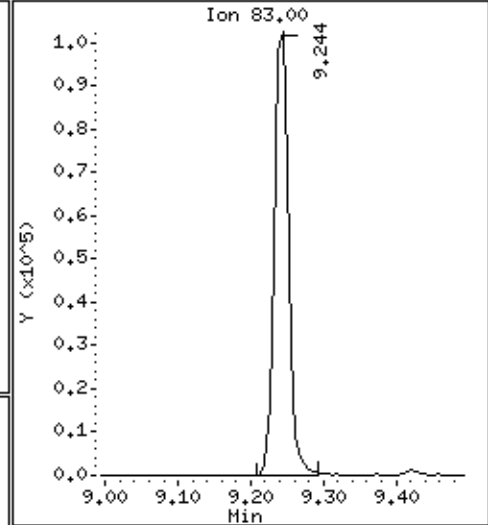
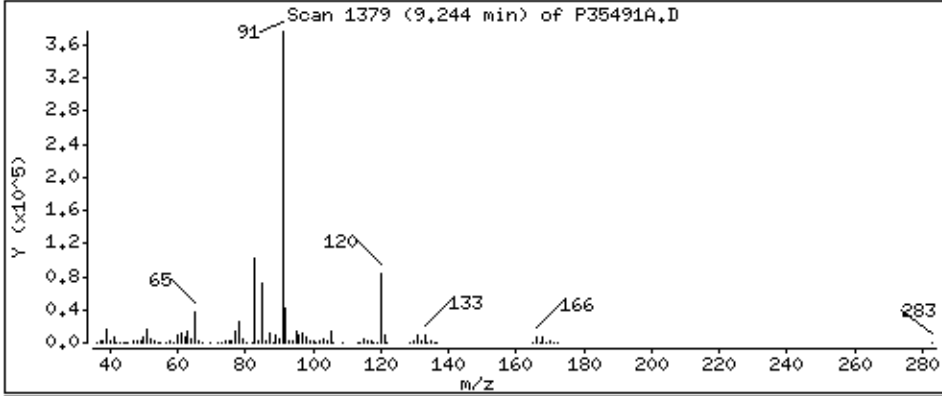
Column phase: RTX-624

Column diameter: 0,18

95 1,1,2,2-Tetrachloroethane

Concentration: 46,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

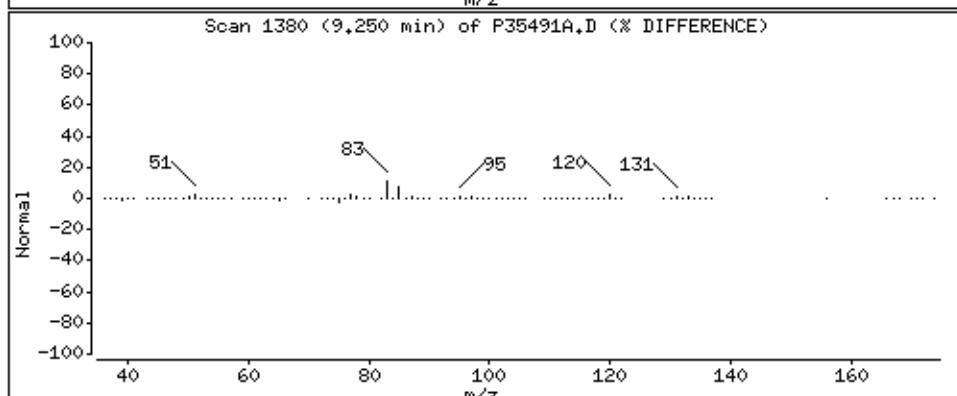
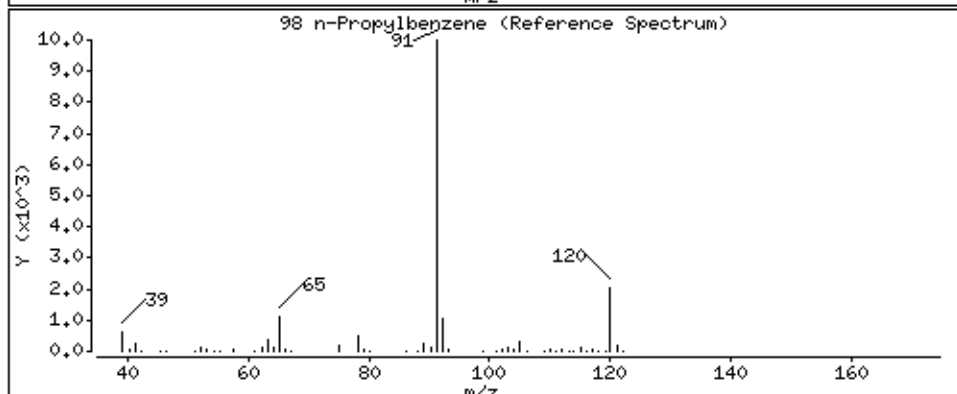
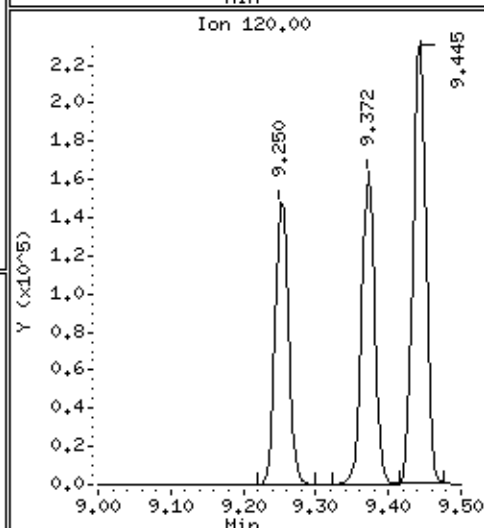
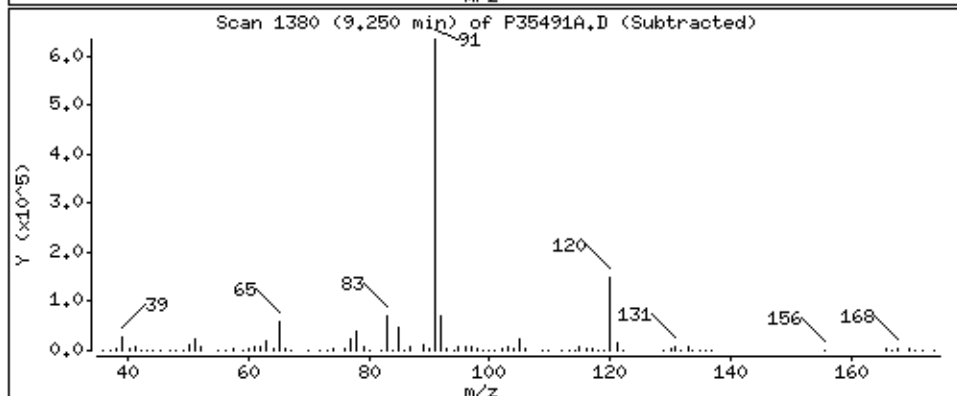
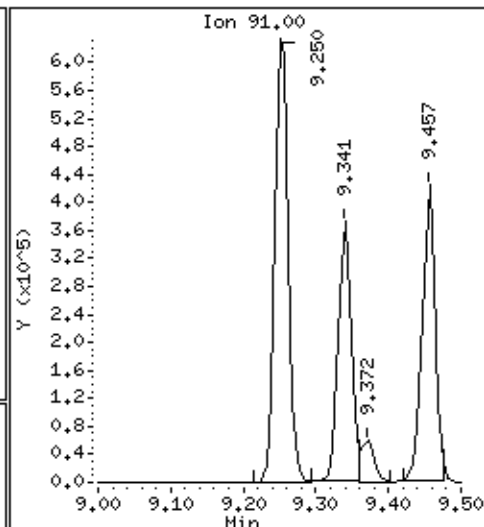
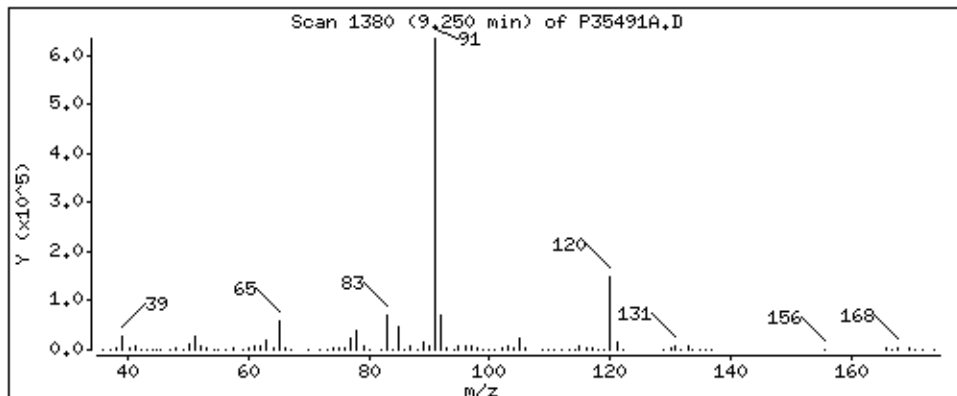
Column phase: RTX-624

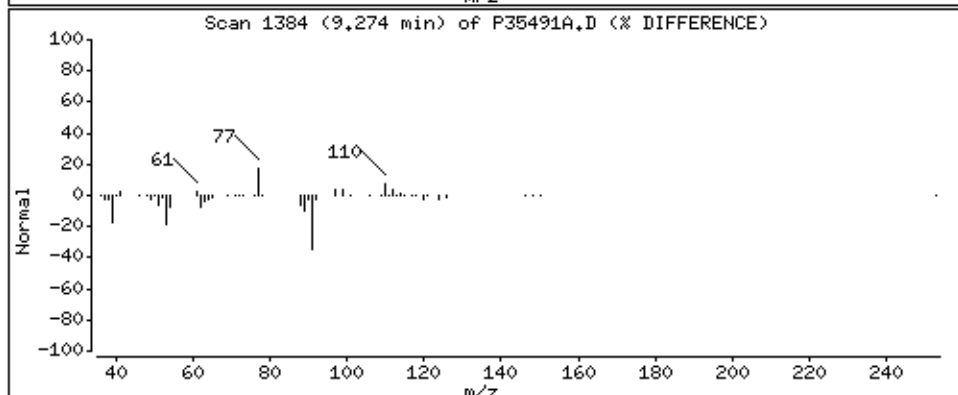
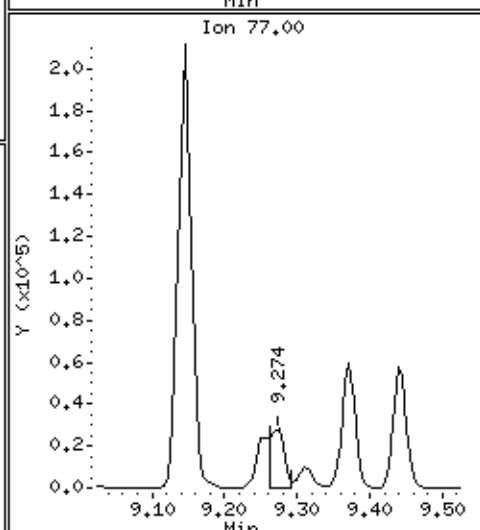
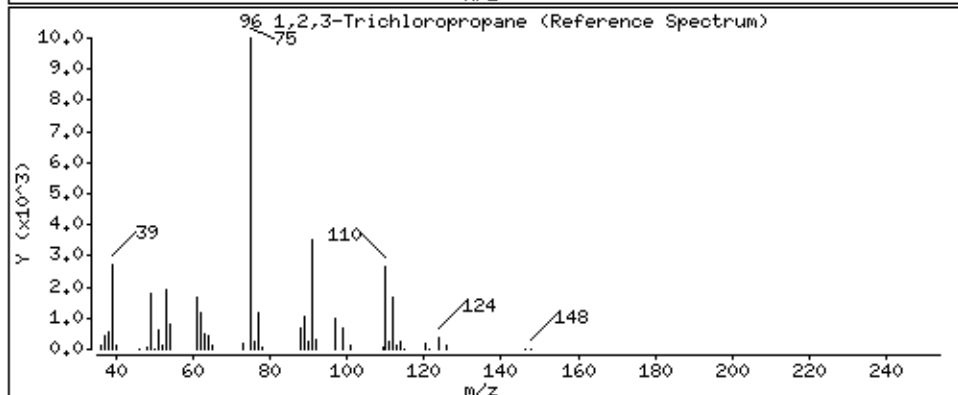
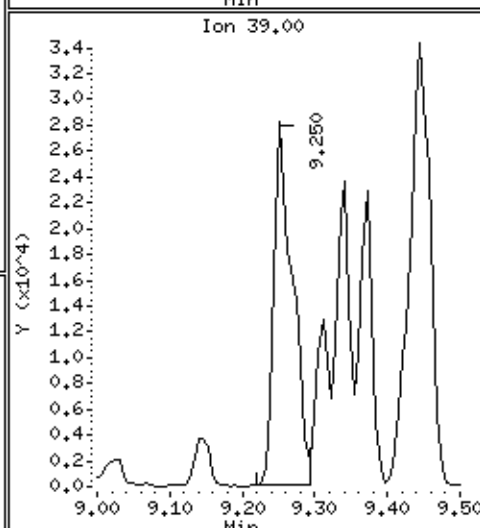
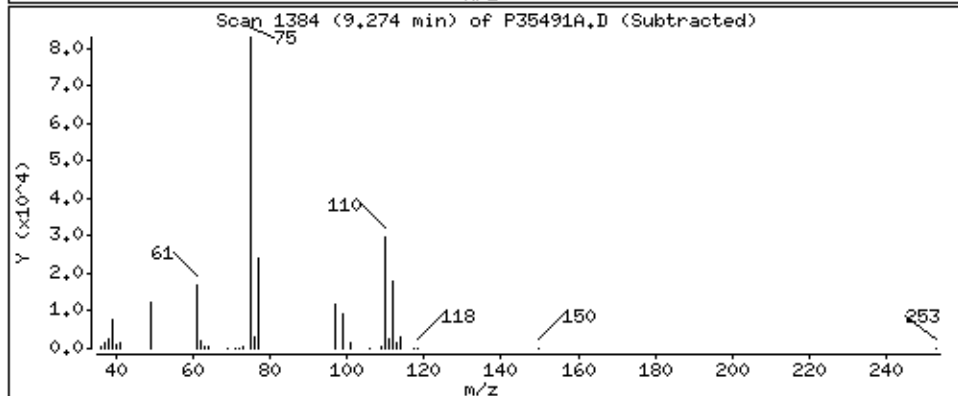
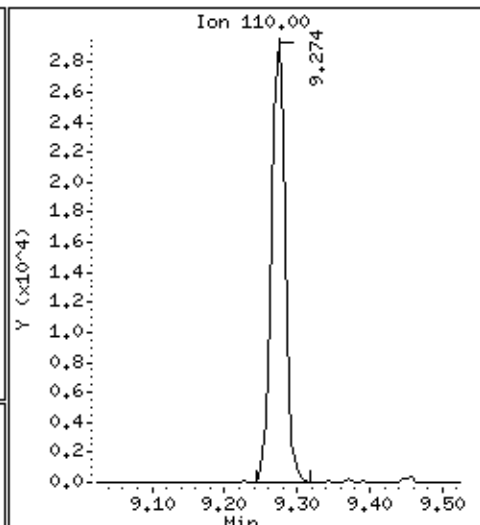
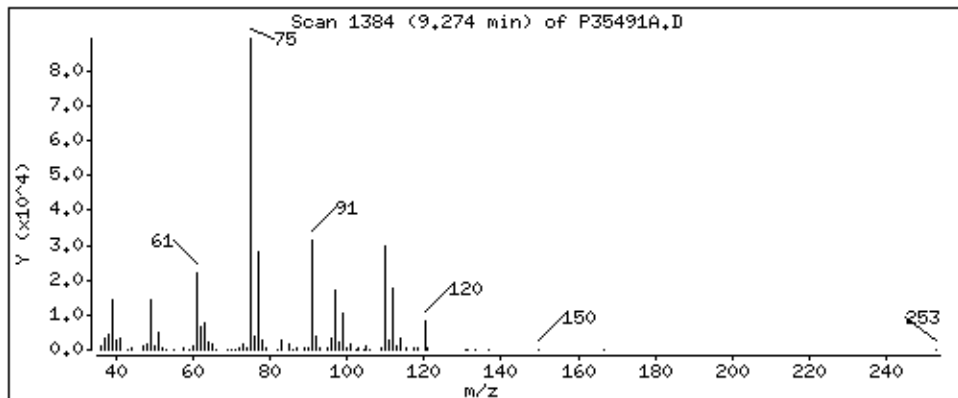
Column diameter: 0,18

98 n-Propylbenzene

Concentration: 45,9 ug/L

Review Code:

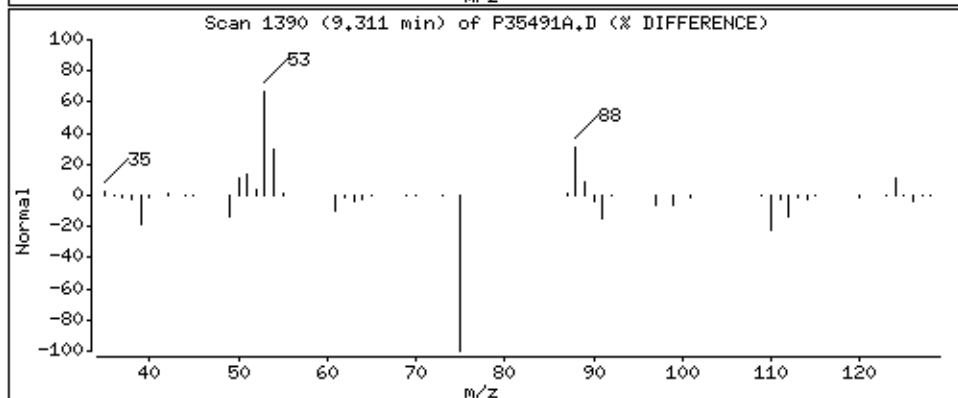
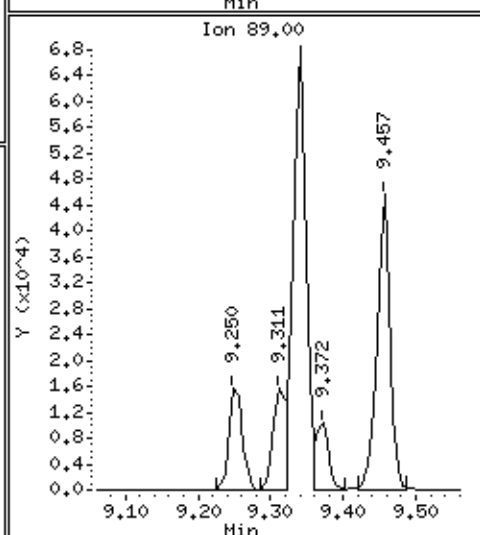
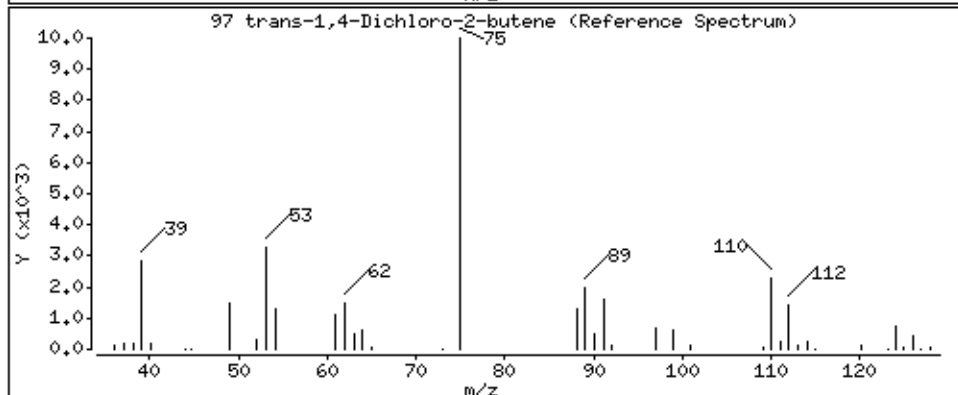
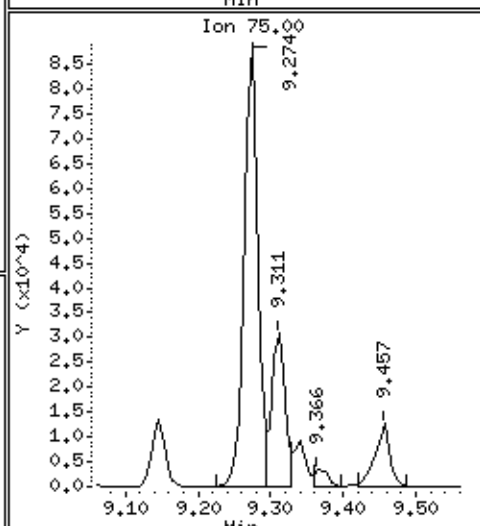
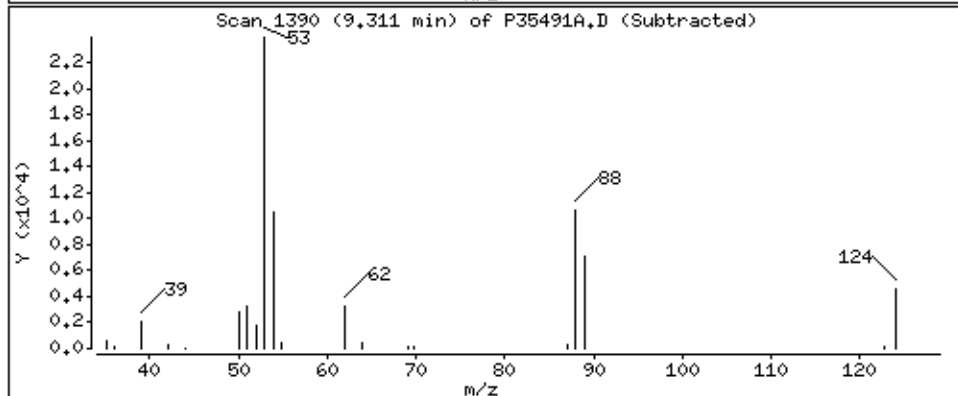
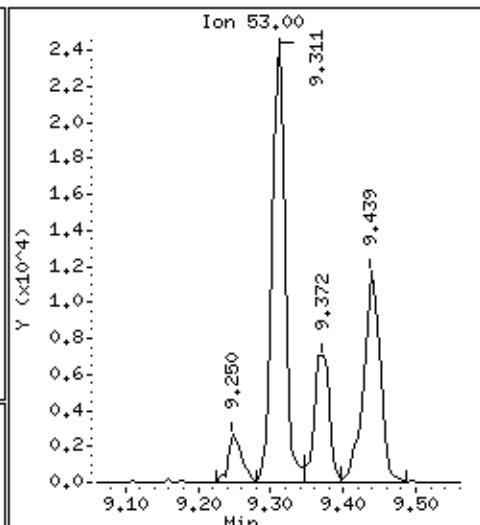
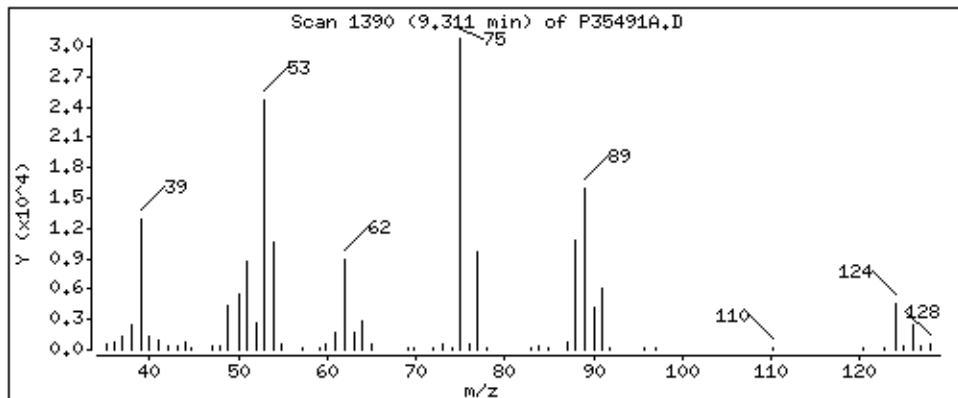




97 trans-1,4-Dichloro-2-butene

Concentration: 50,0 ug/L

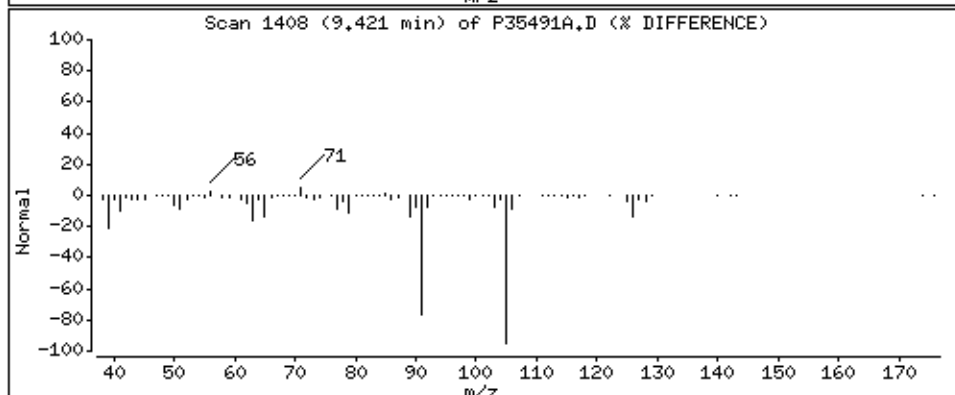
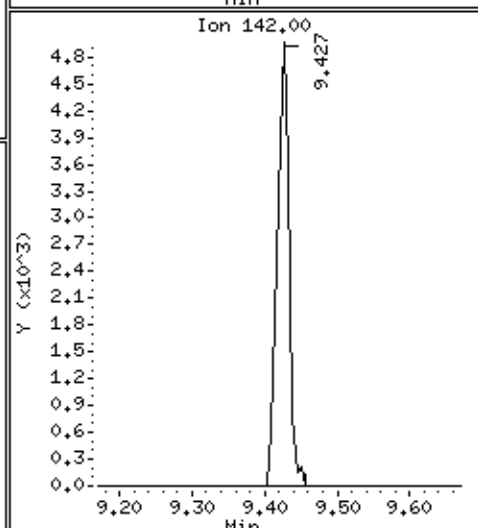
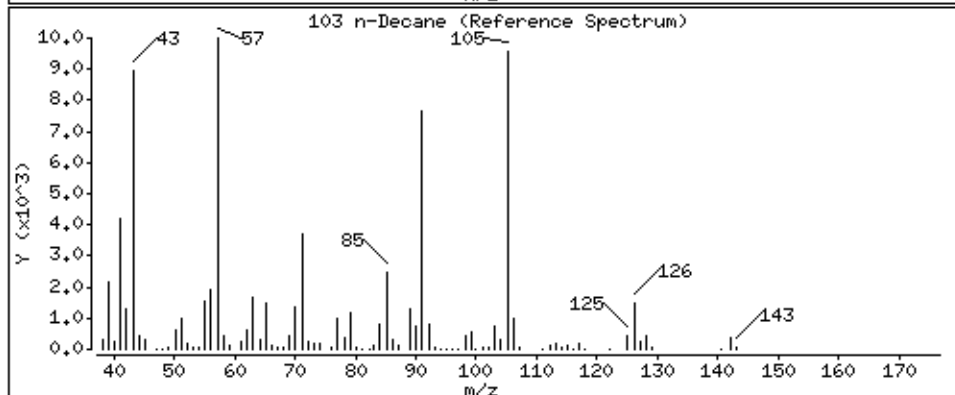
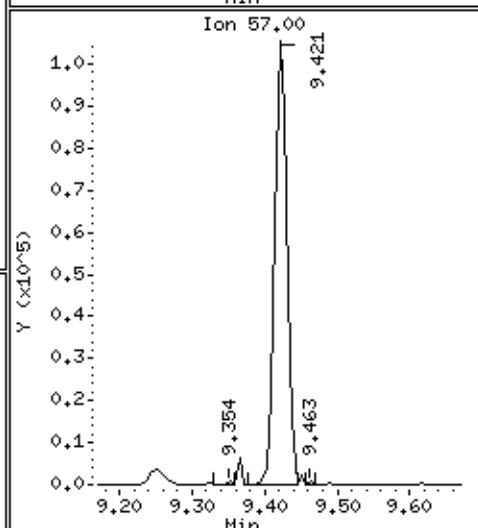
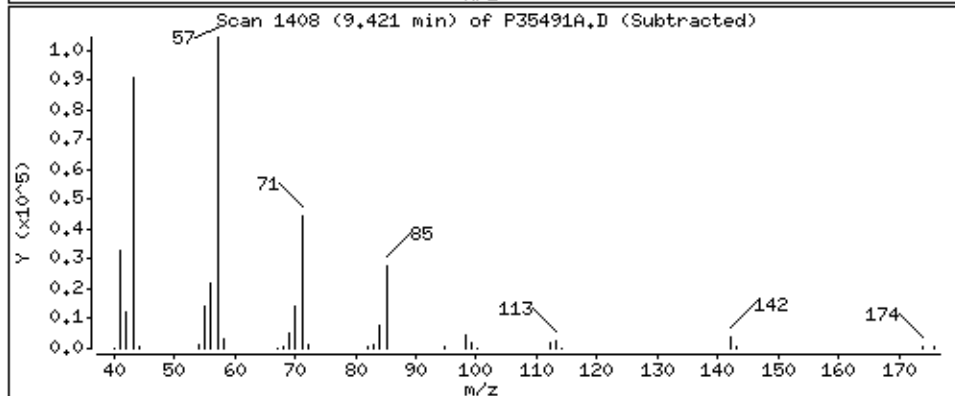
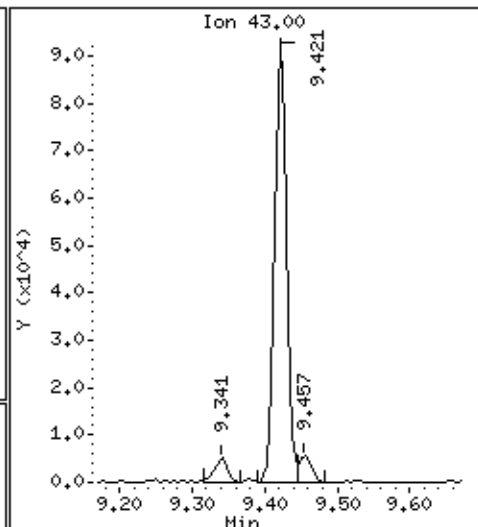
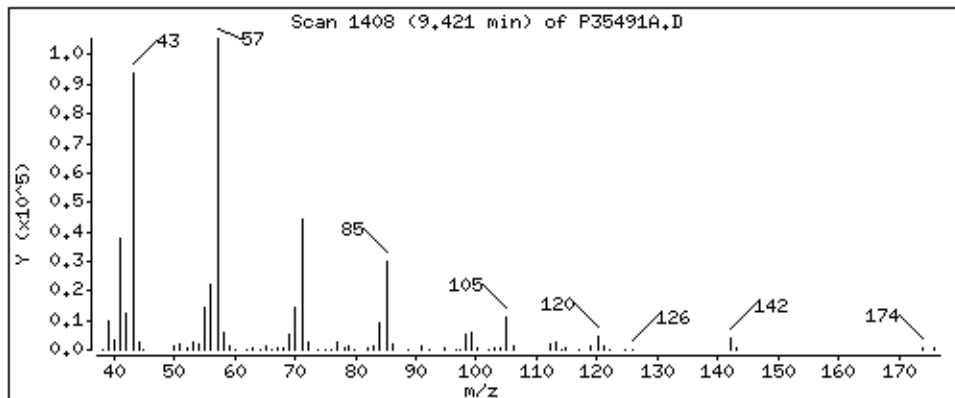
Review Code:



103 n-Decane

Concentration: 44,6 ug/L

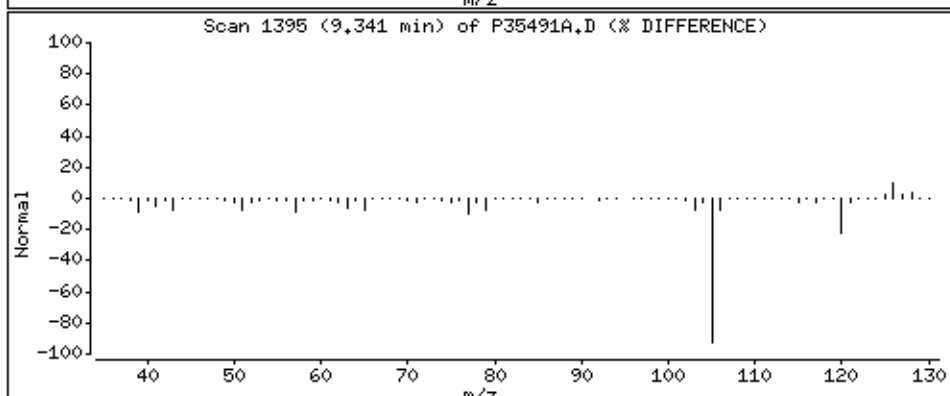
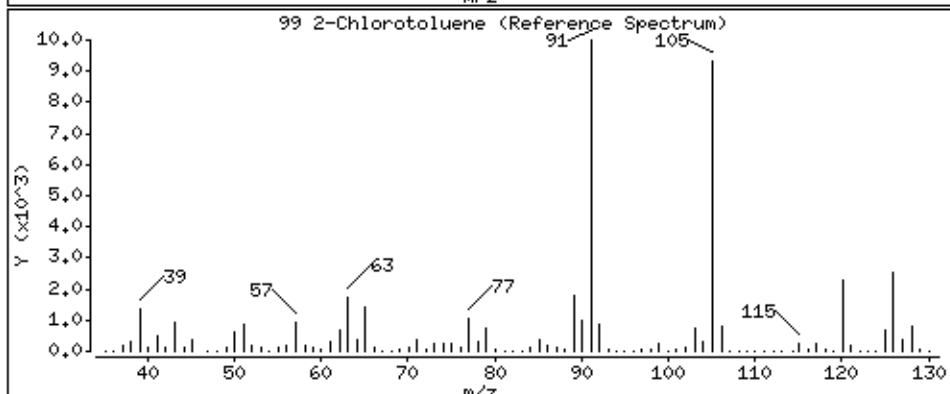
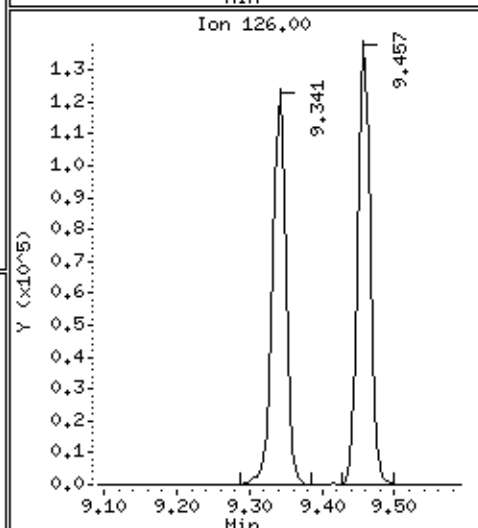
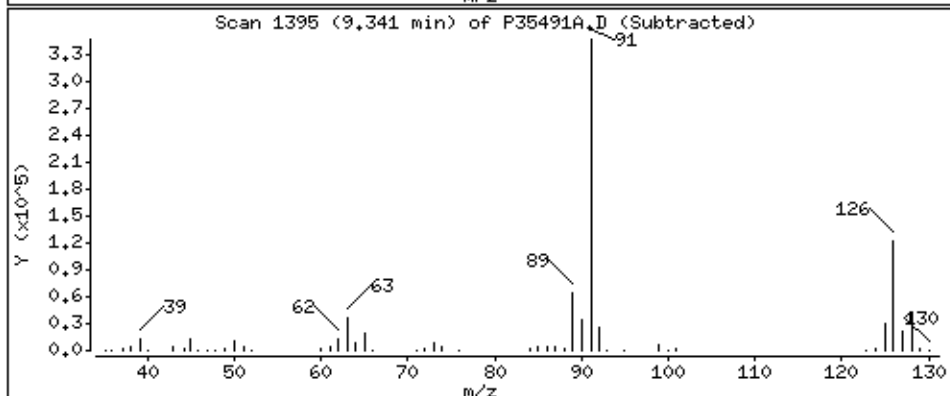
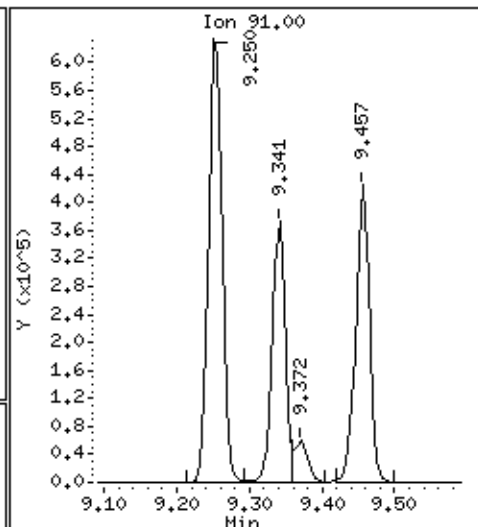
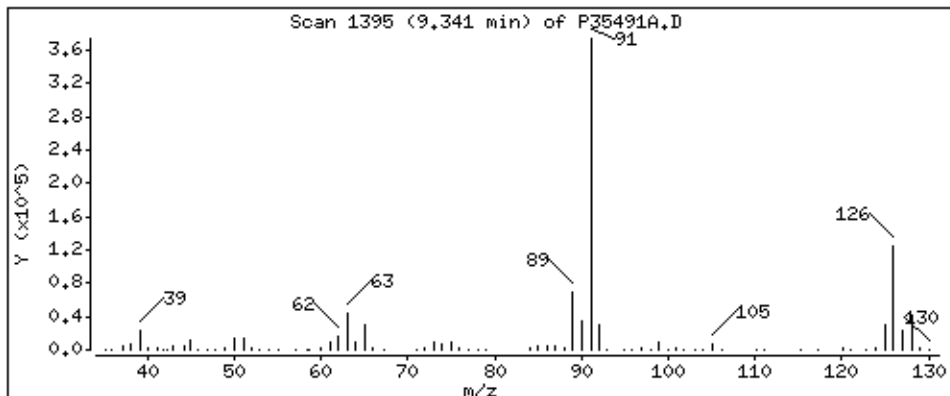
Review Code:



99 2-Chlorotoluene

Concentration: 45,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1,25

Purge Volume: 5.0

Operator: KGG

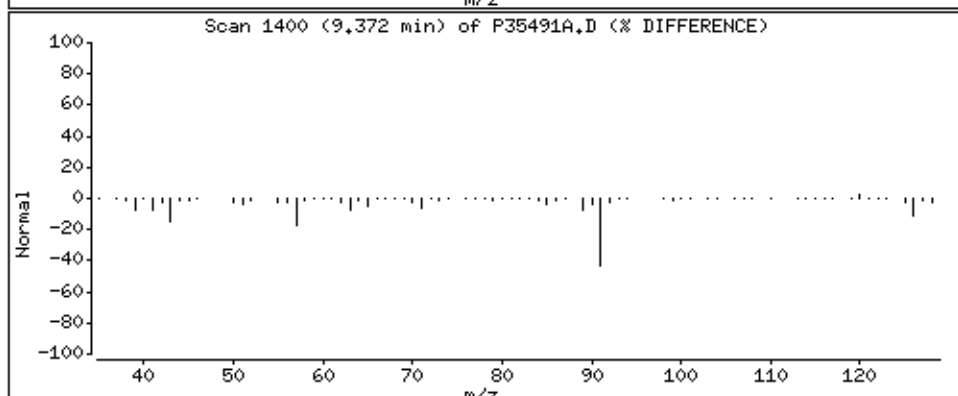
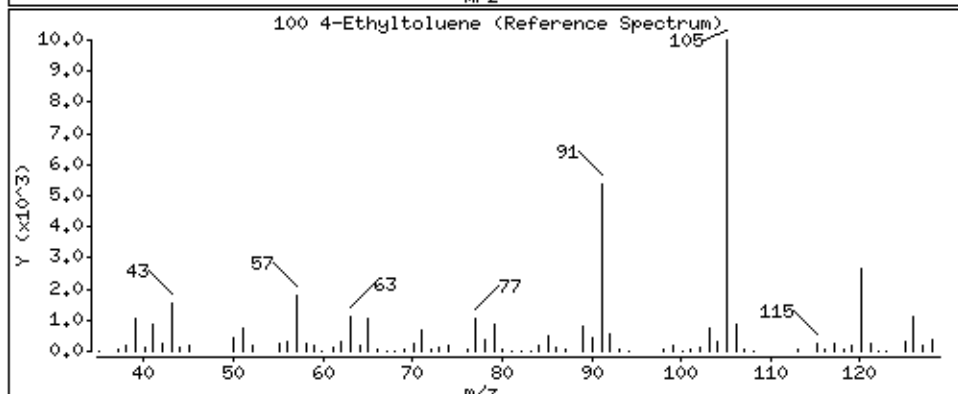
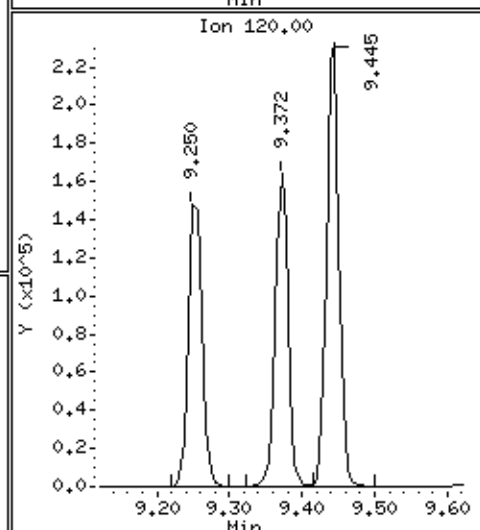
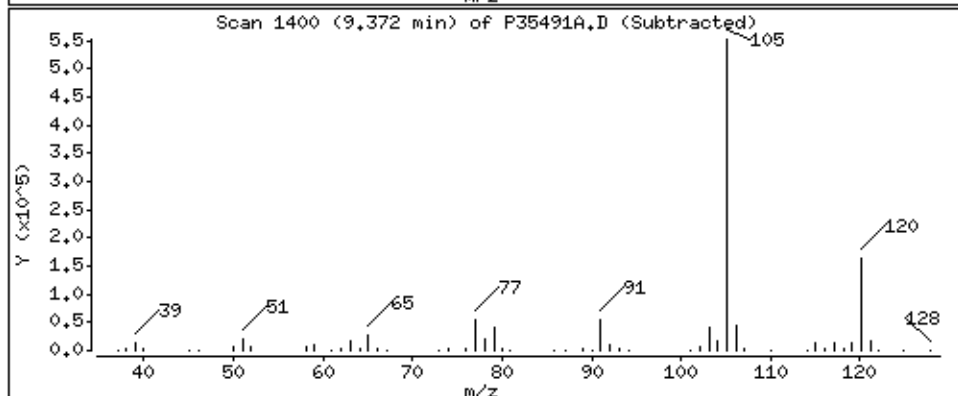
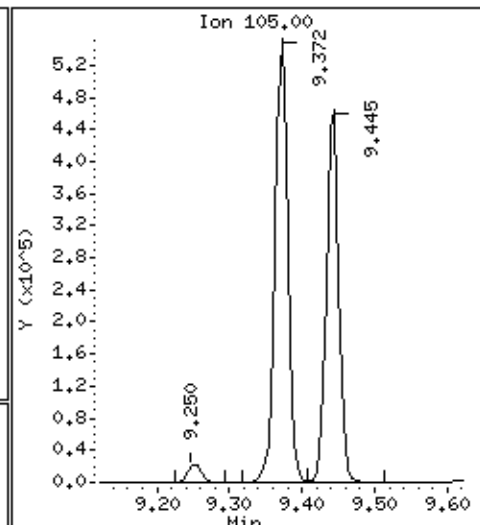
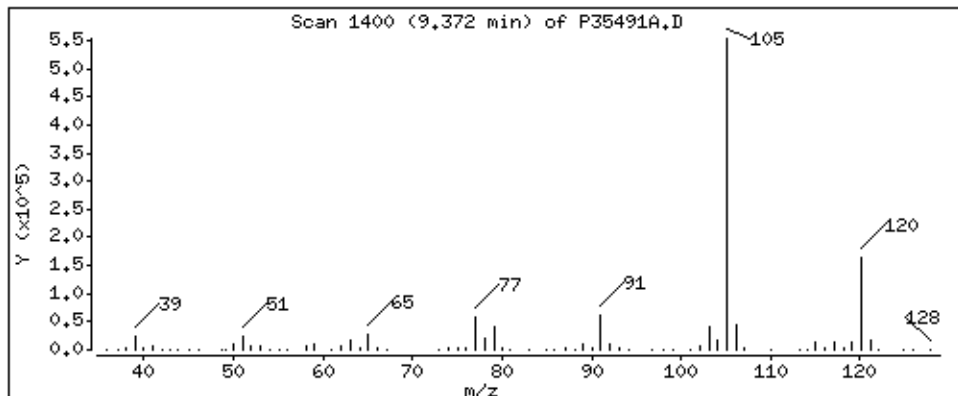
Column phase: RTX-624

Column diameter: 0,18

100 4-Ethyltoluene

Concentration: 46,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

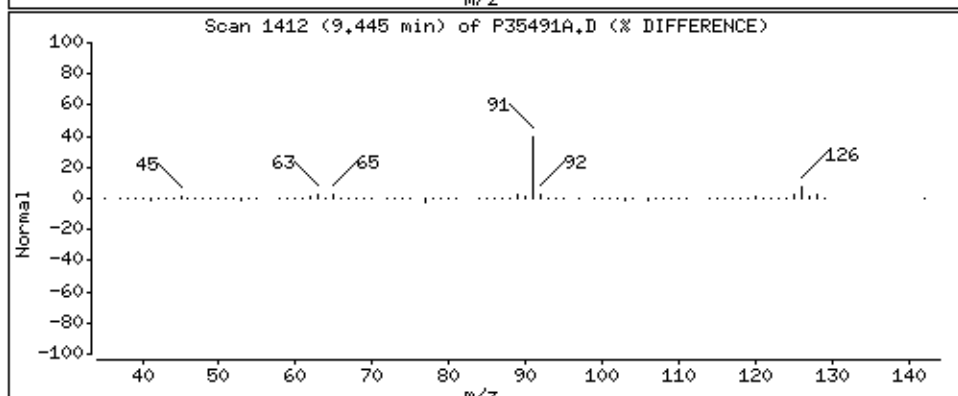
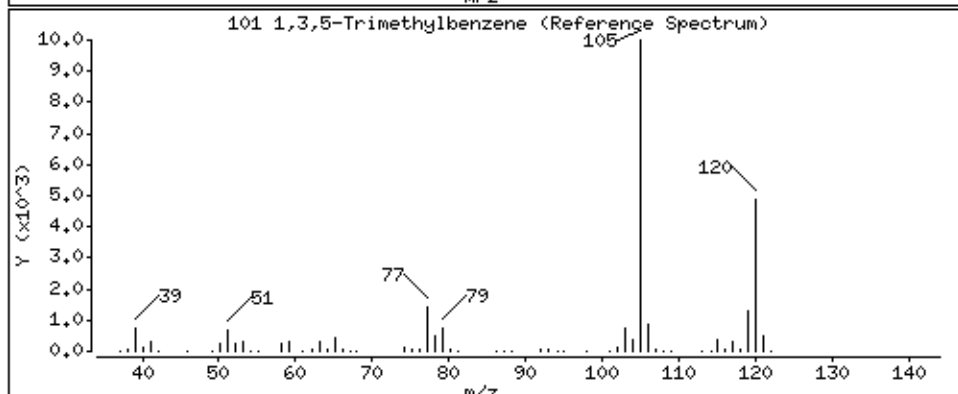
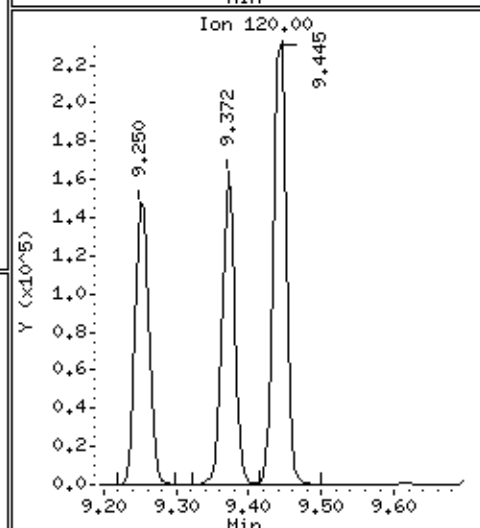
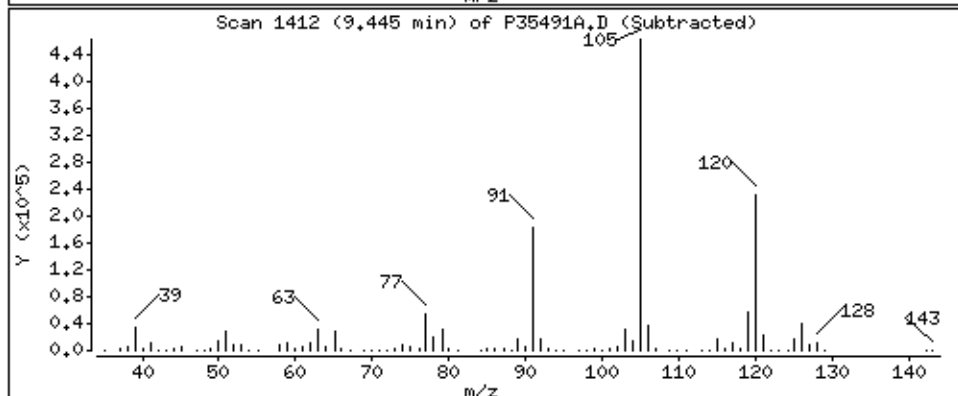
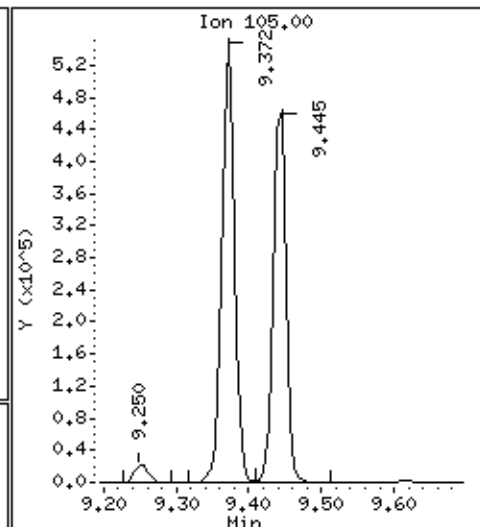
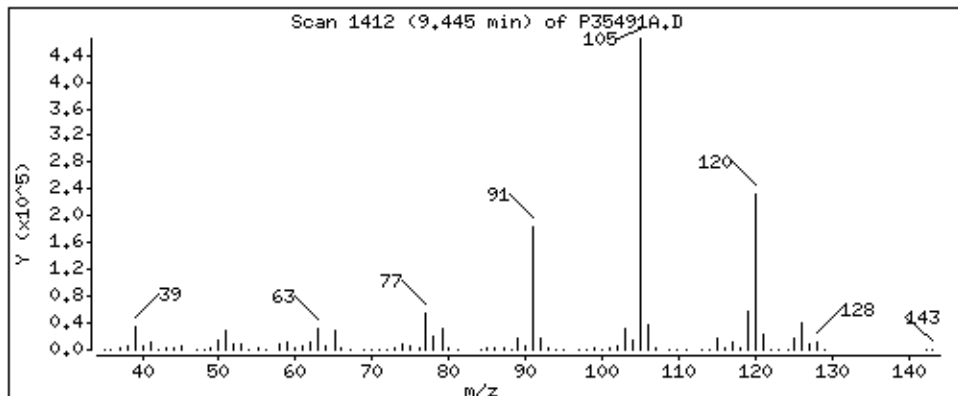
Column phase: RTX-624

Column diameter: 0,18

101 1,3,5-Trimethylbenzene

Concentration: 49.4 ug/L

Review Code:

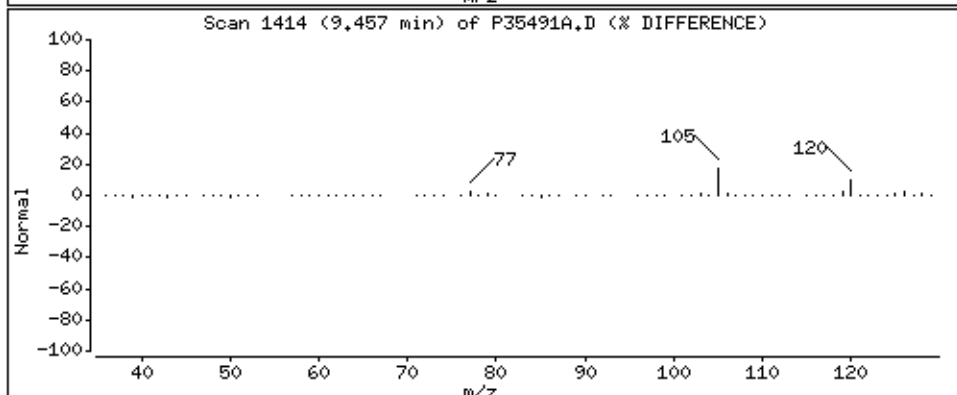
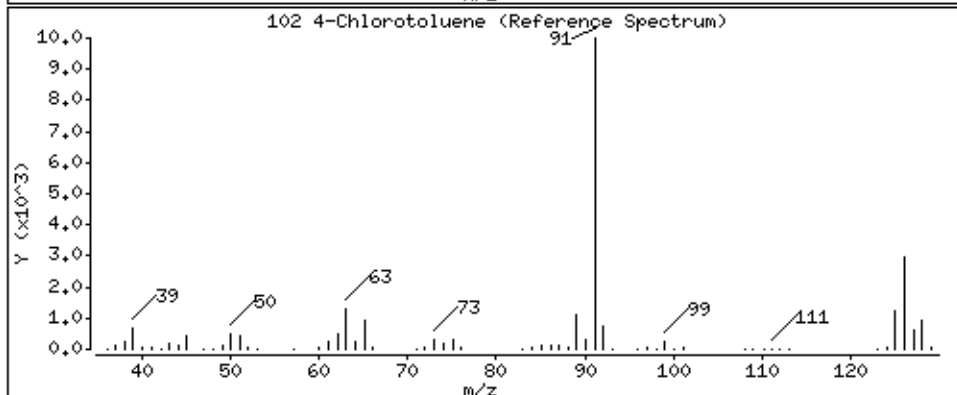
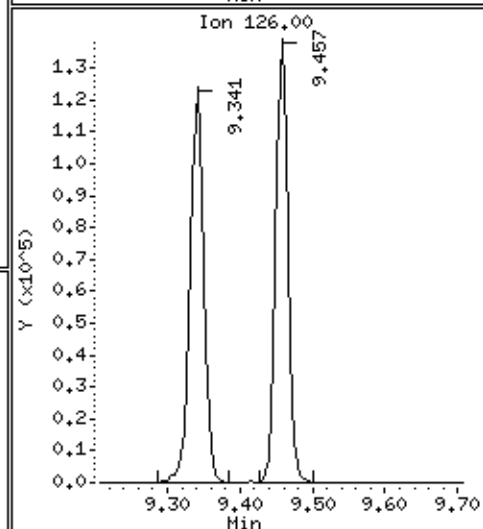
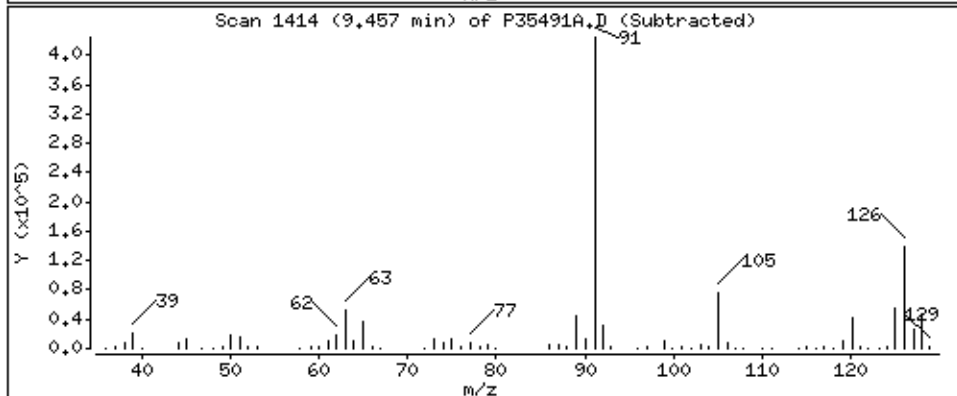
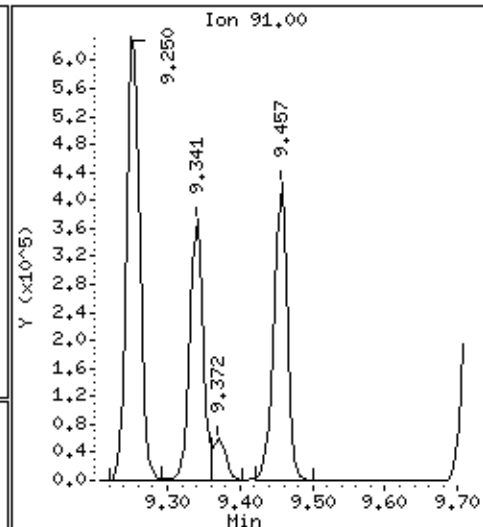
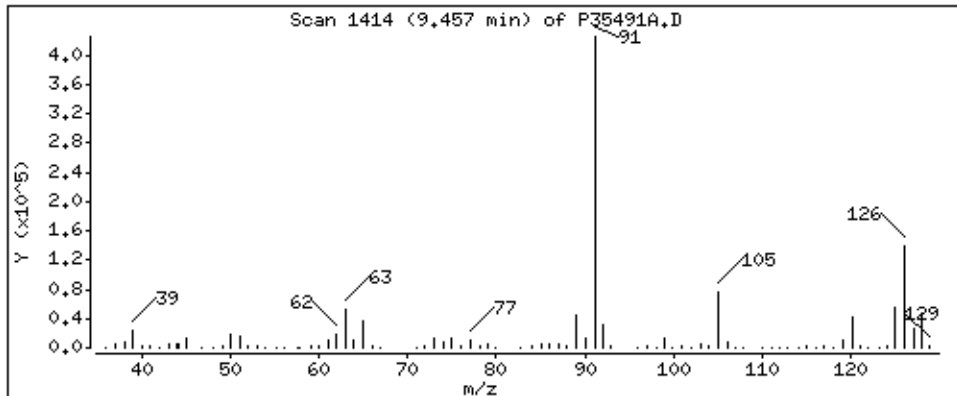




102 4-Chlorotoluene

Concentration: 47.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

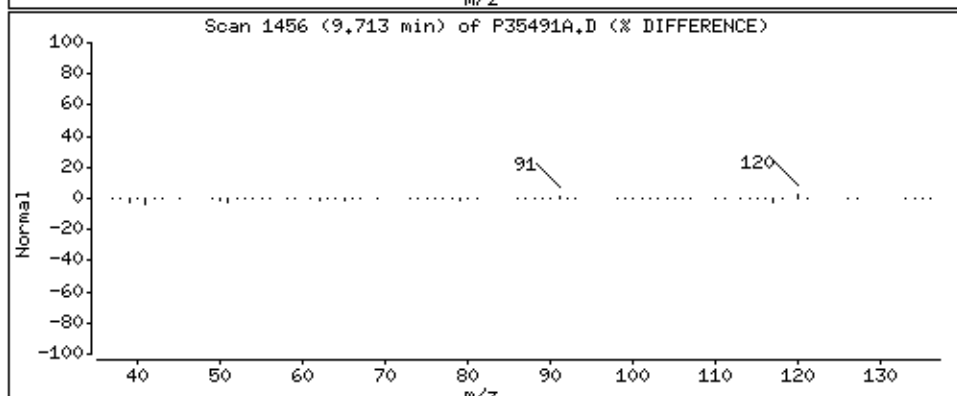
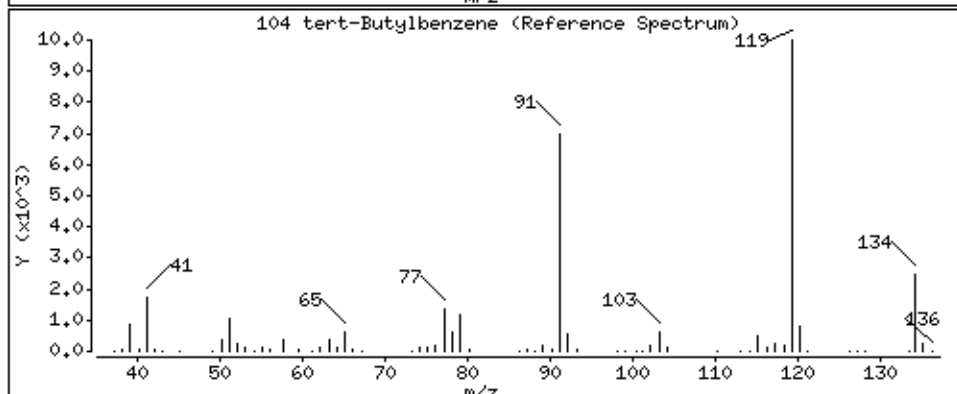
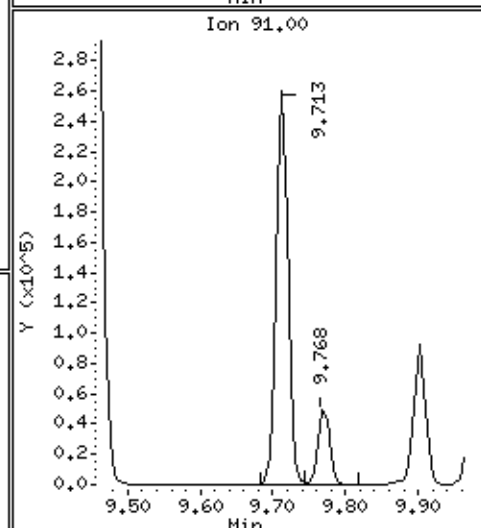
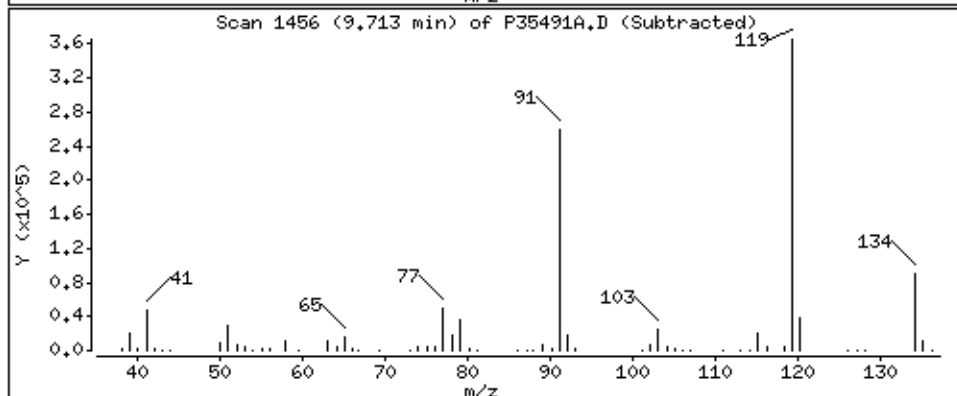
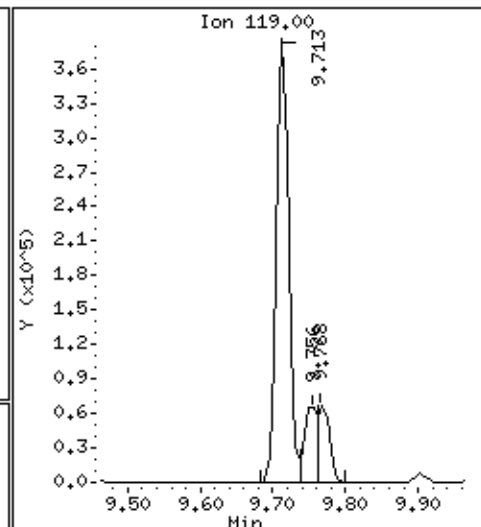
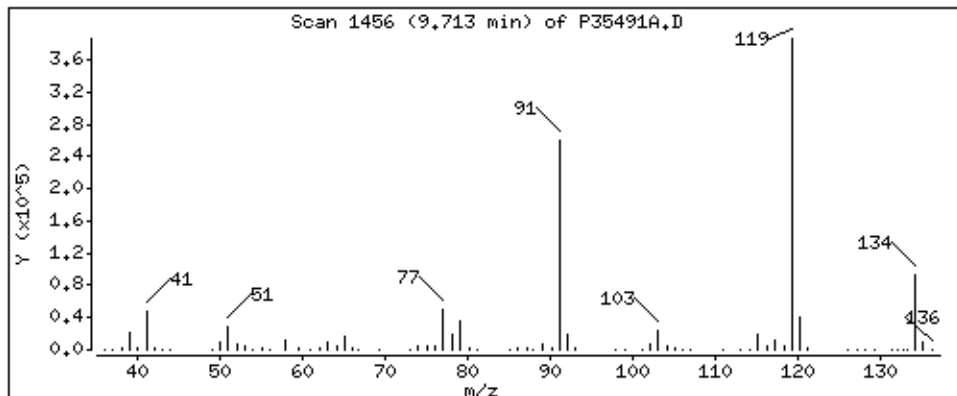
Column phase: RTX-624

Column diameter: 0,18

104 tert-Butylbenzene

Concentration: 47.3 ug/L

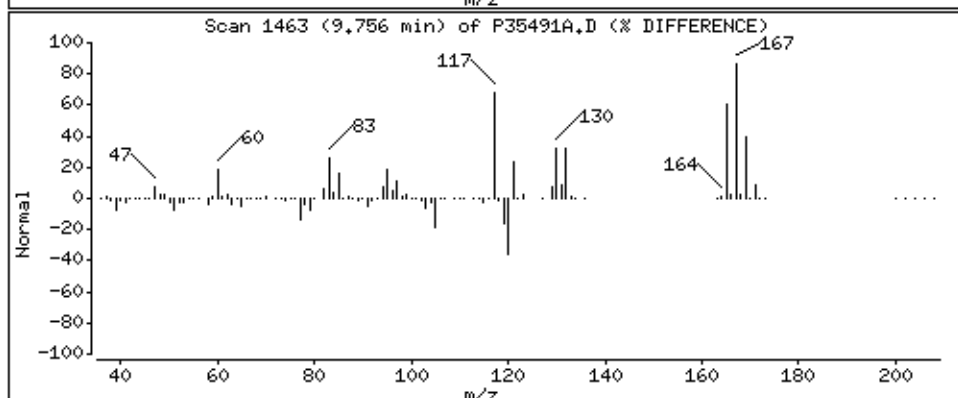
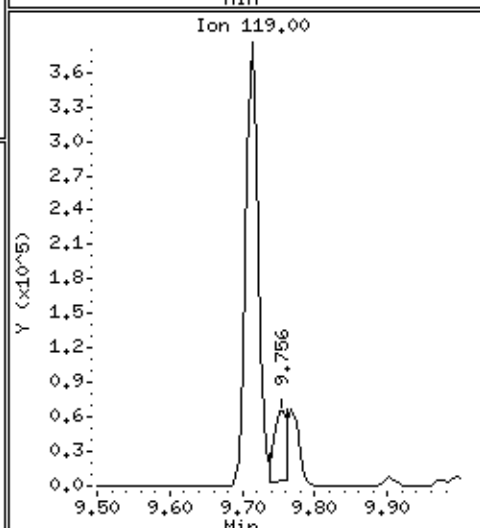
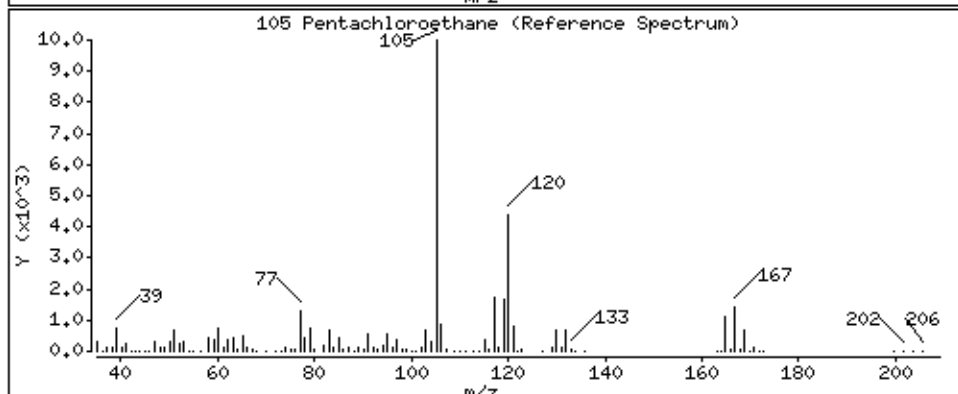
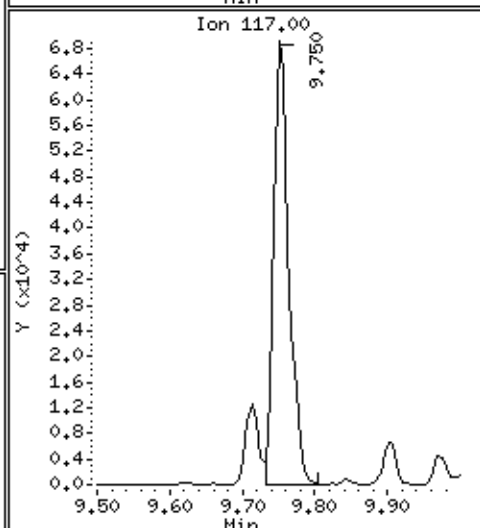
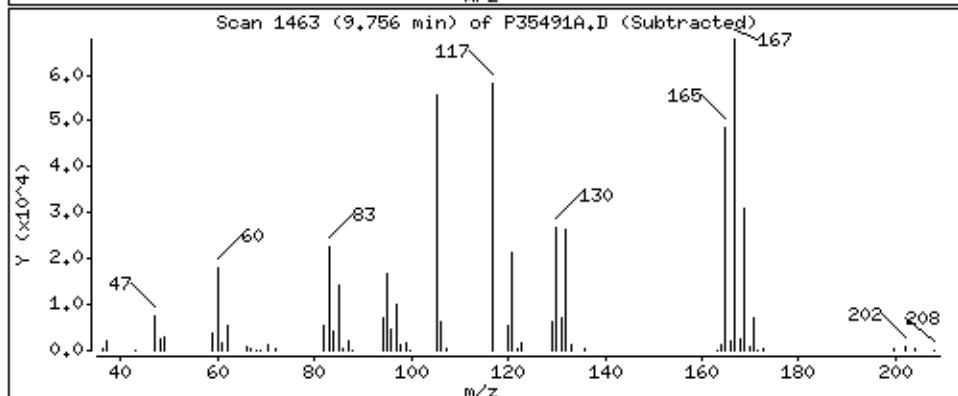
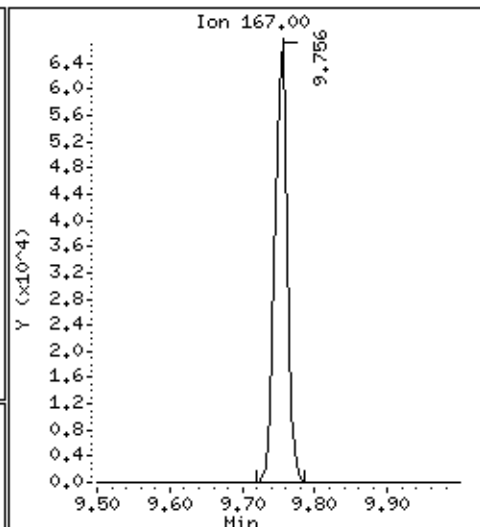
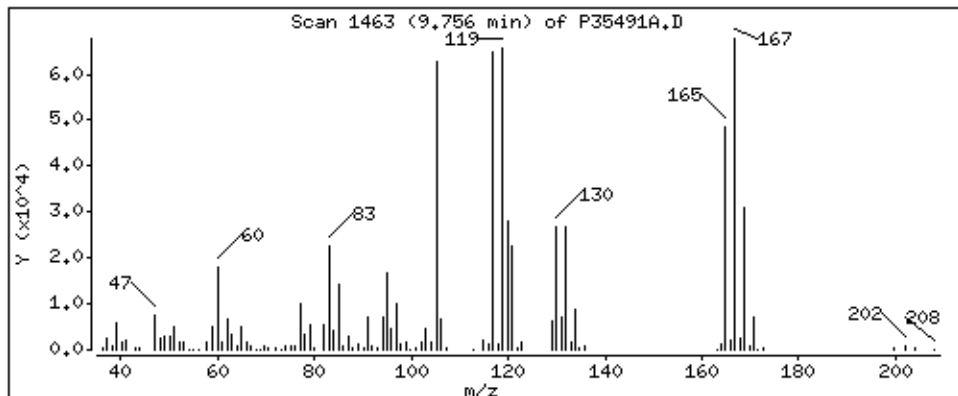
Review Code:



105 Pentachloroethane

Concentration: 49.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

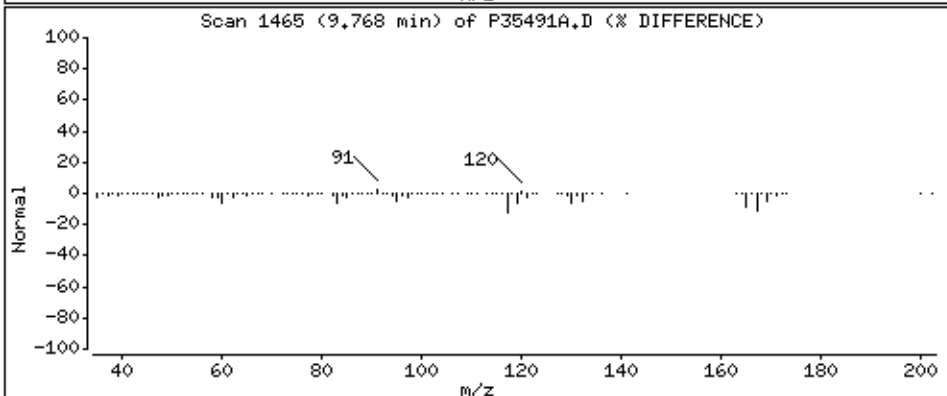
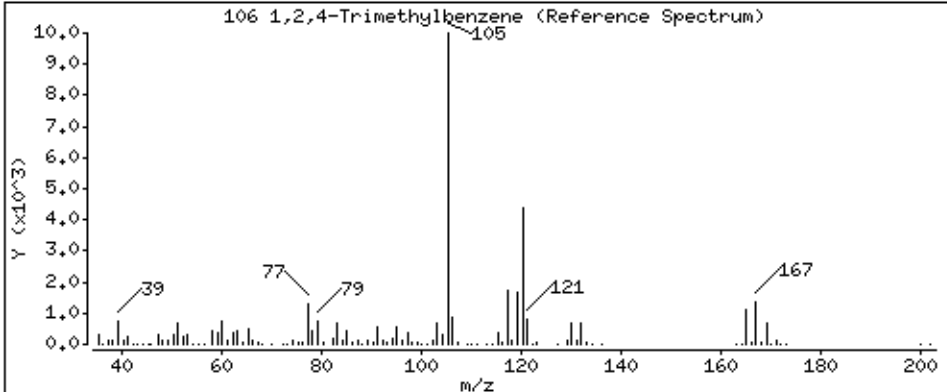
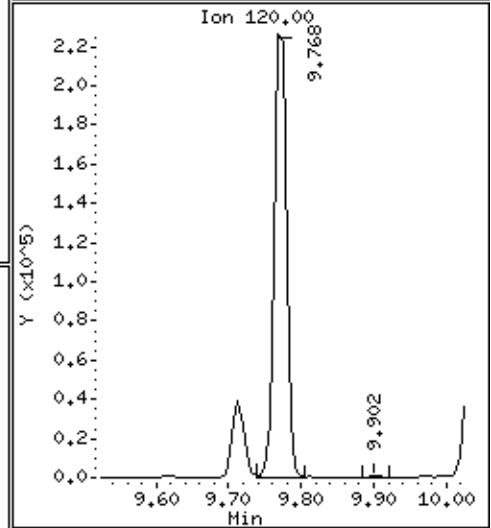
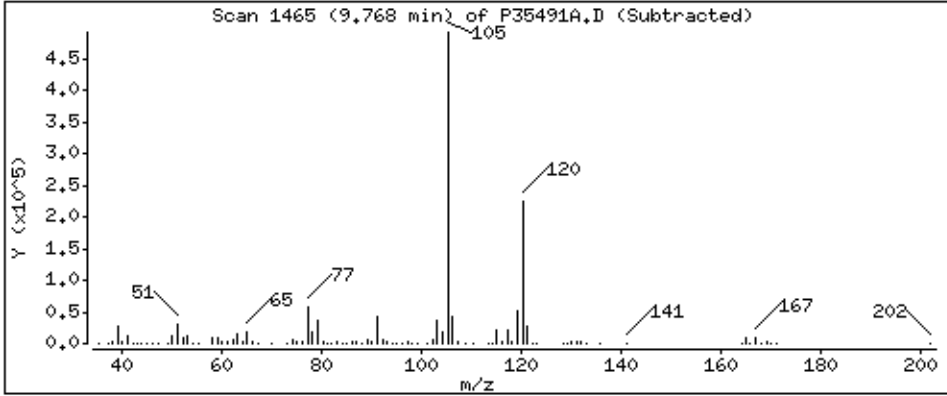
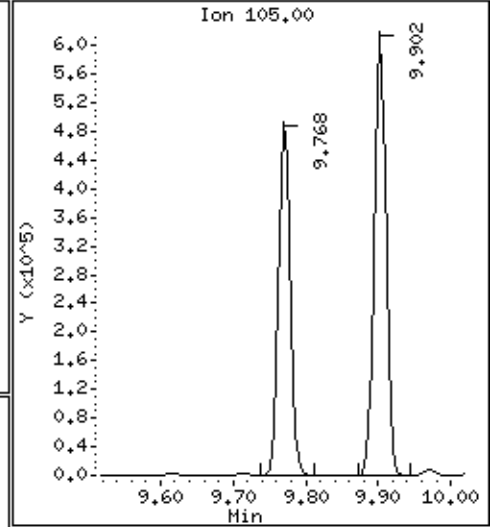
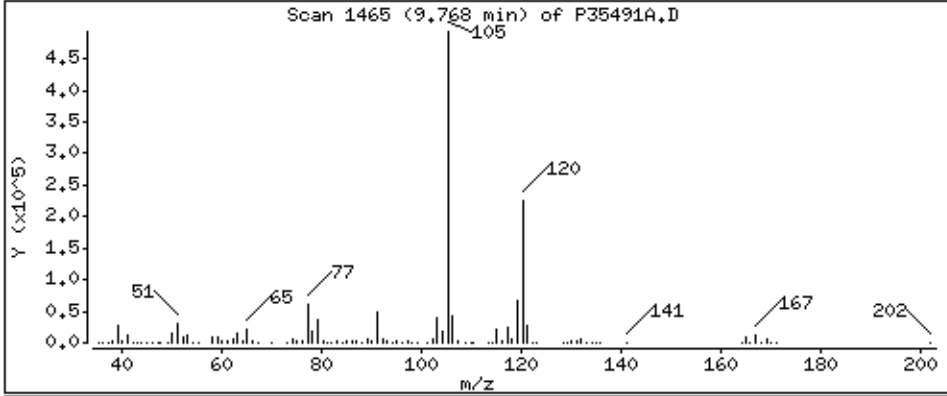
Column phase: RTX-624

Column diameter: 0,18

106 1,2,4-Trimethylbenzene

Concentration: 48,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

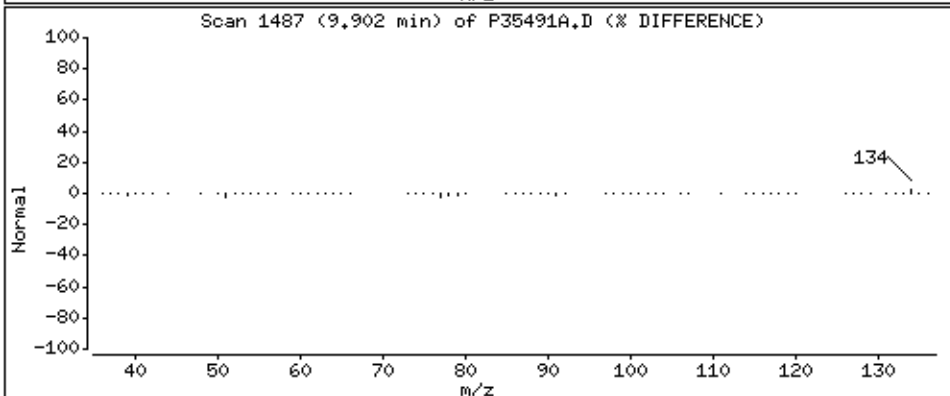
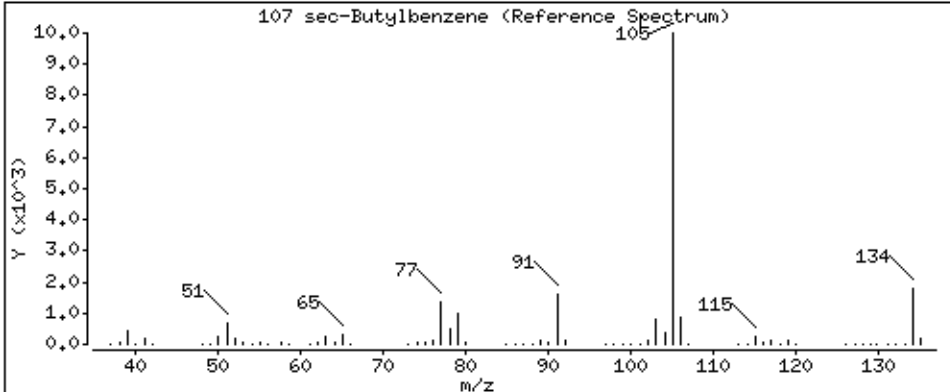
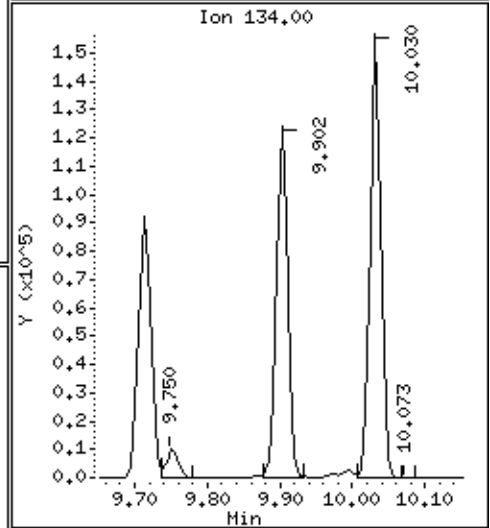
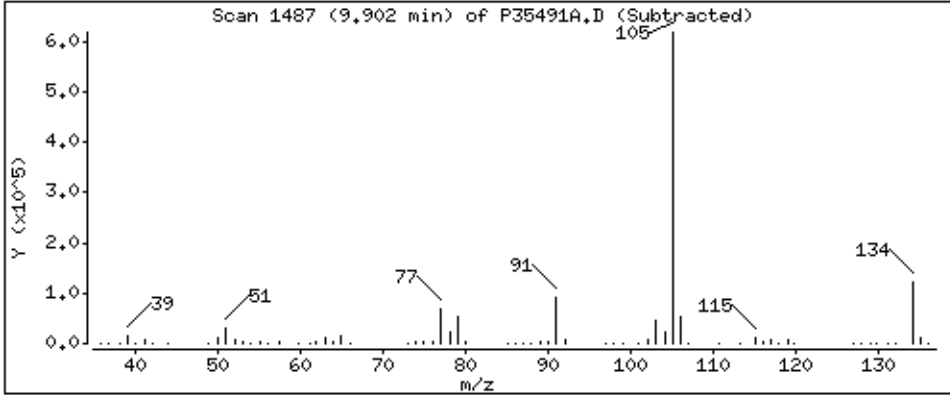
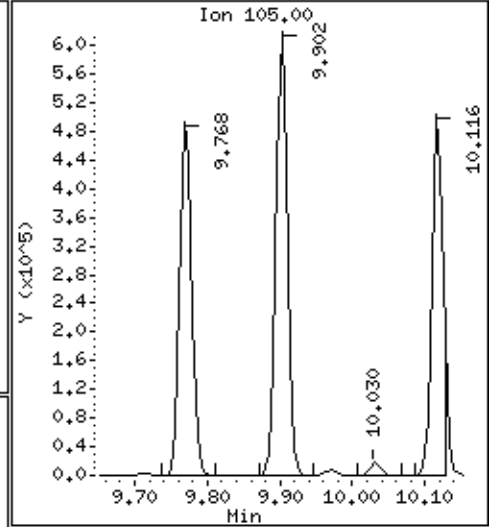
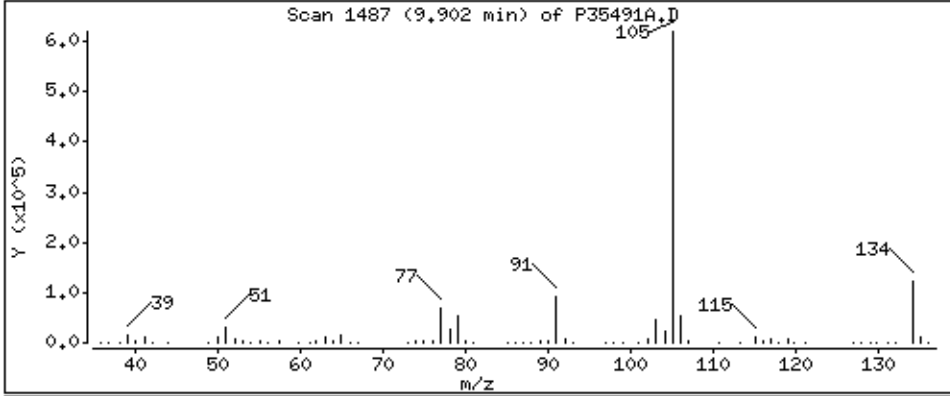
Column phase: RTX-624

Column diameter: 0,18

107 sec-Butylbenzene

Concentration: 45,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

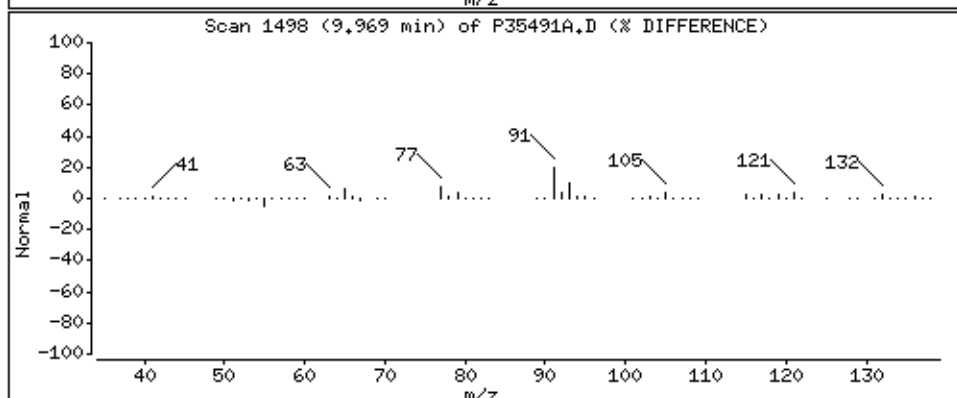
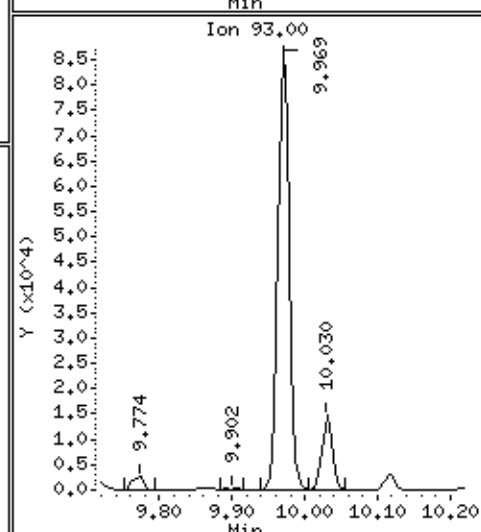
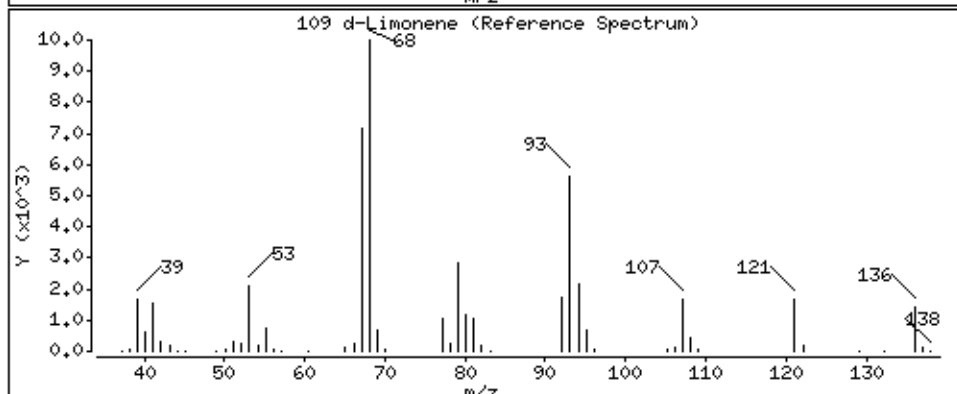
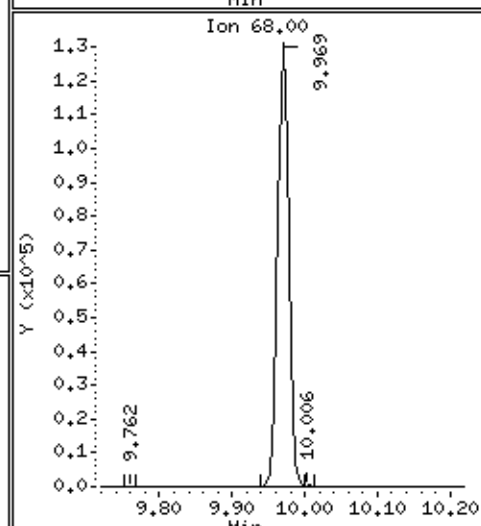
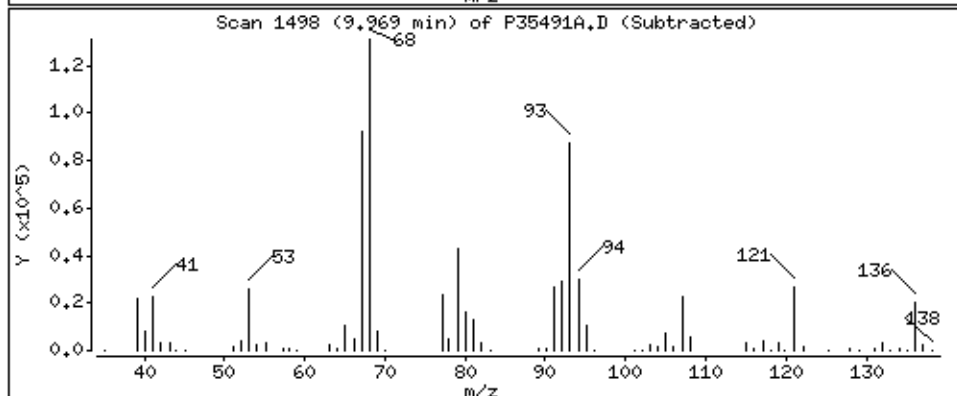
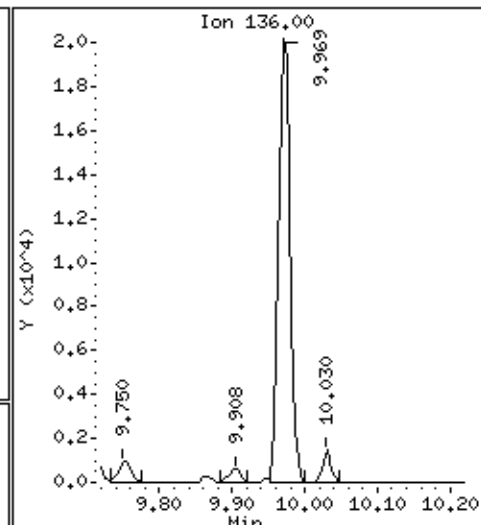
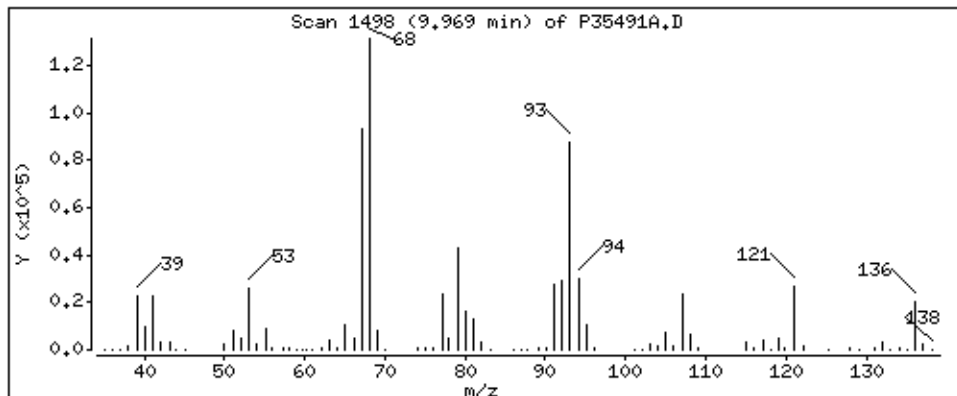
Column phase: RTX-624

Column diameter: 0.18

109 d-Limonene

Concentration: 46.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

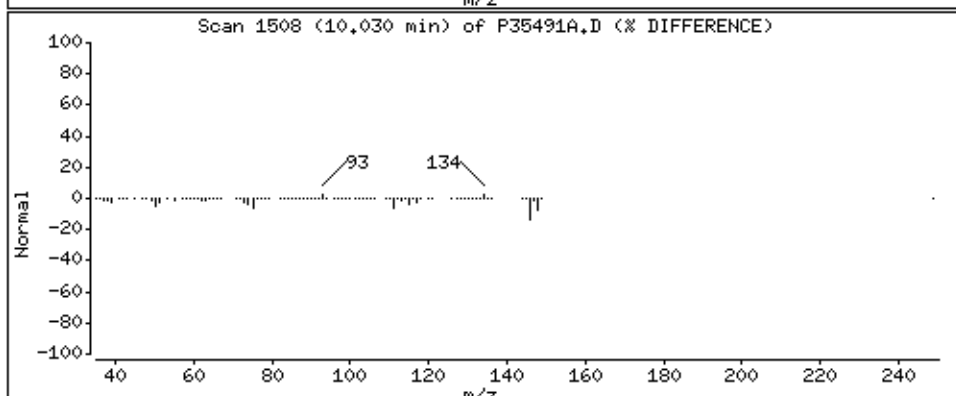
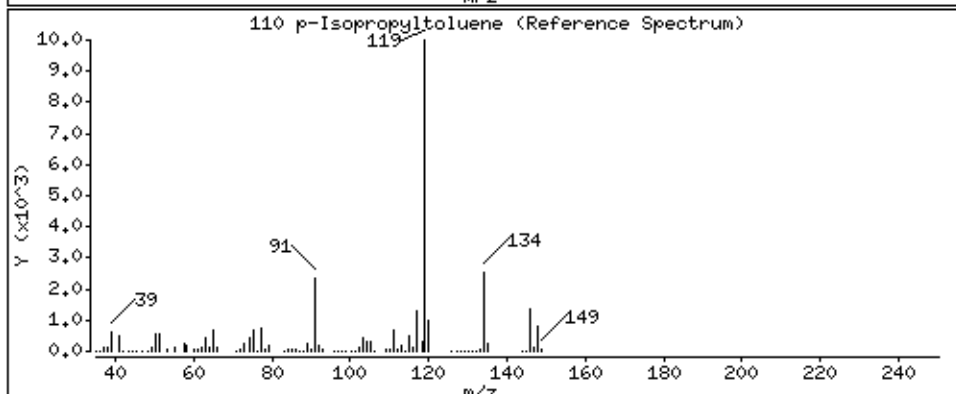
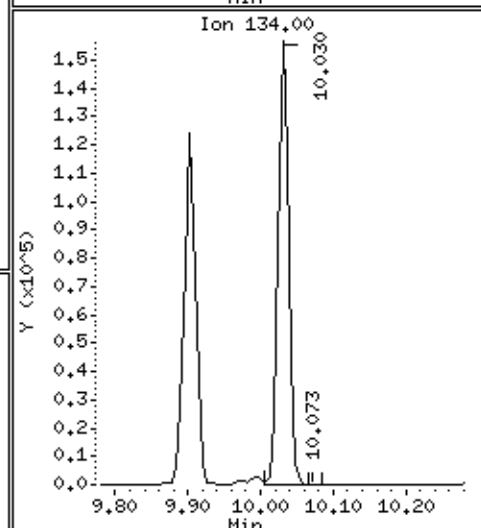
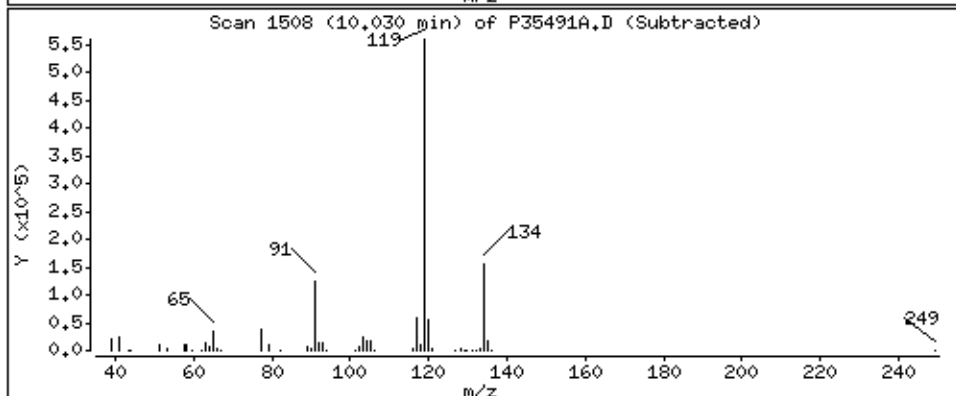
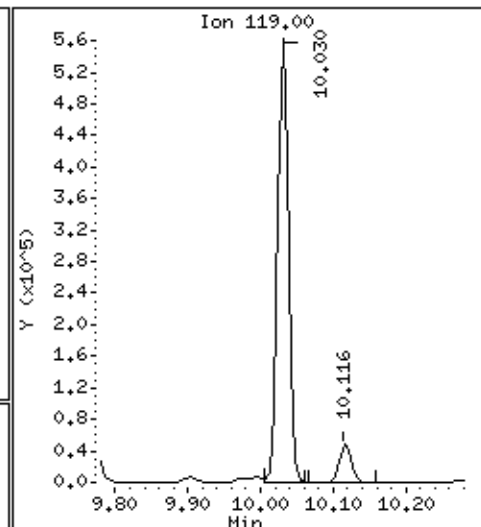
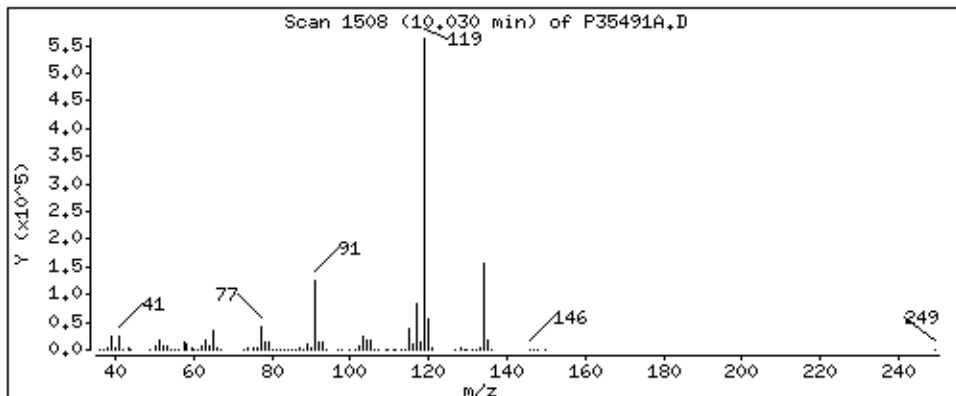
Column phase: RTX-624

Column diameter: 0.18

110 p-Isopropyltoluene

Concentration: 48.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

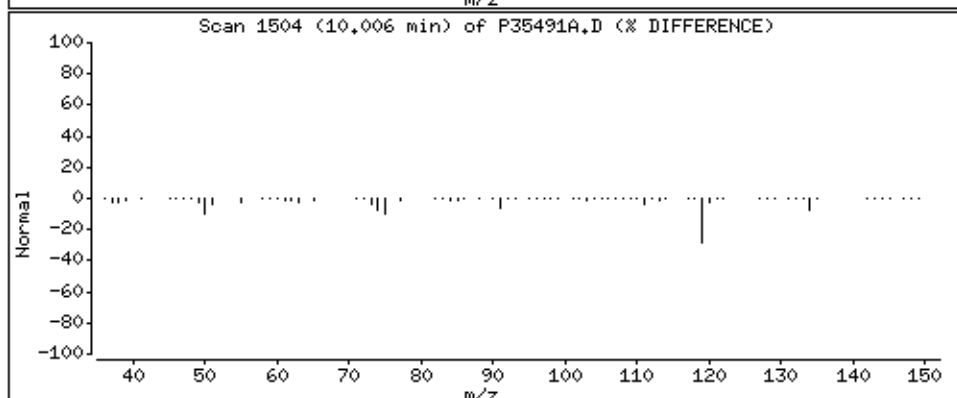
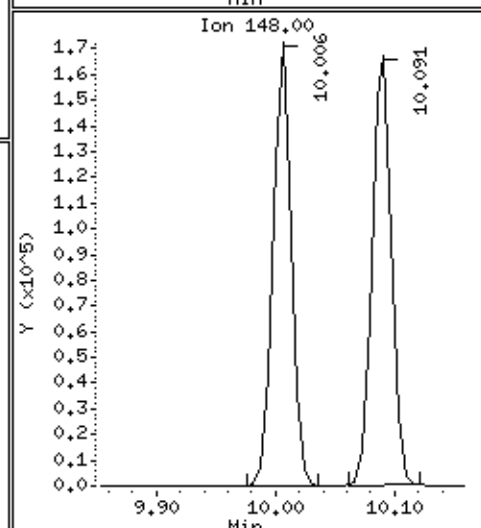
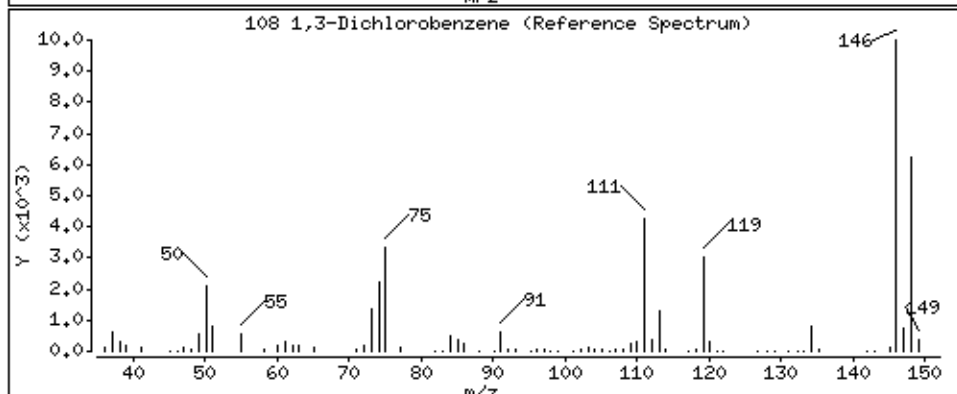
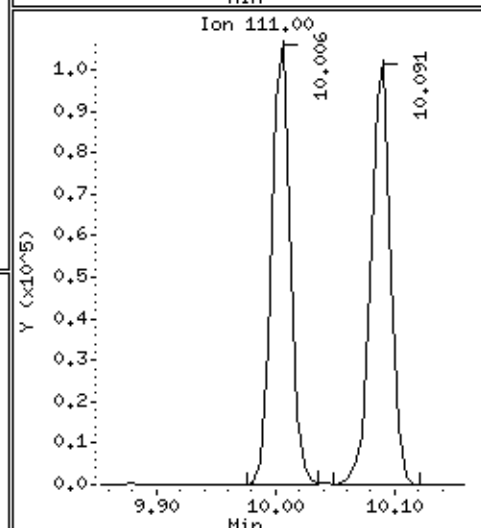
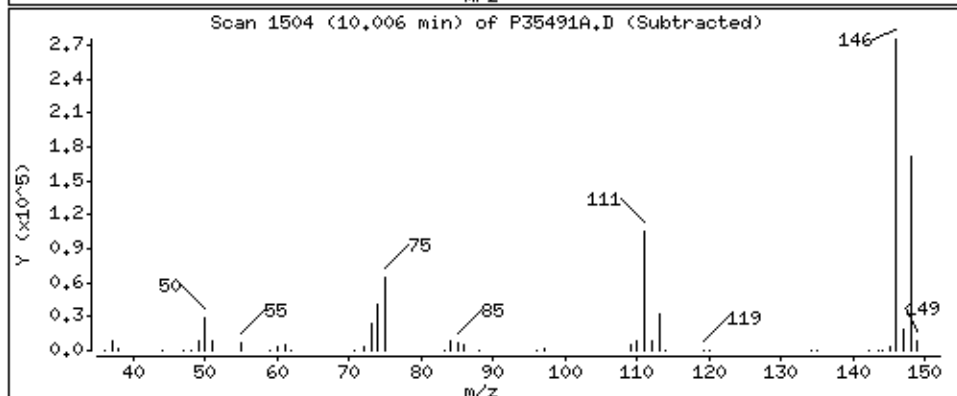
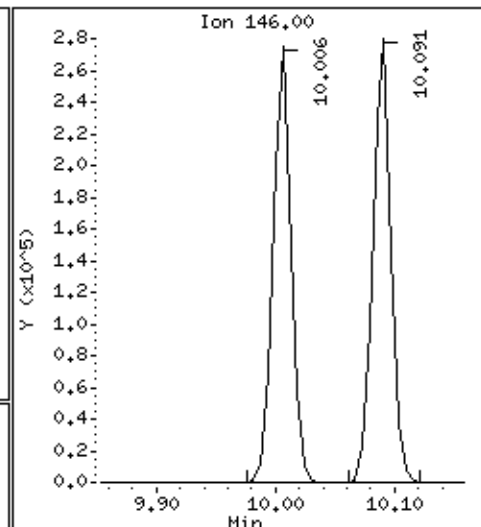
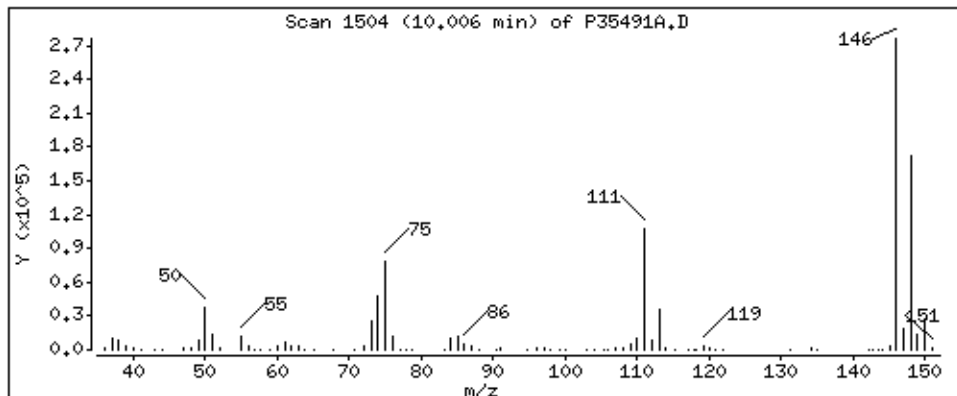
Column phase: RTX-624

Column diameter: 0,18

108 1,3-Dichlorobenzene

Concentration: 49,2 ug/L

Review Code:

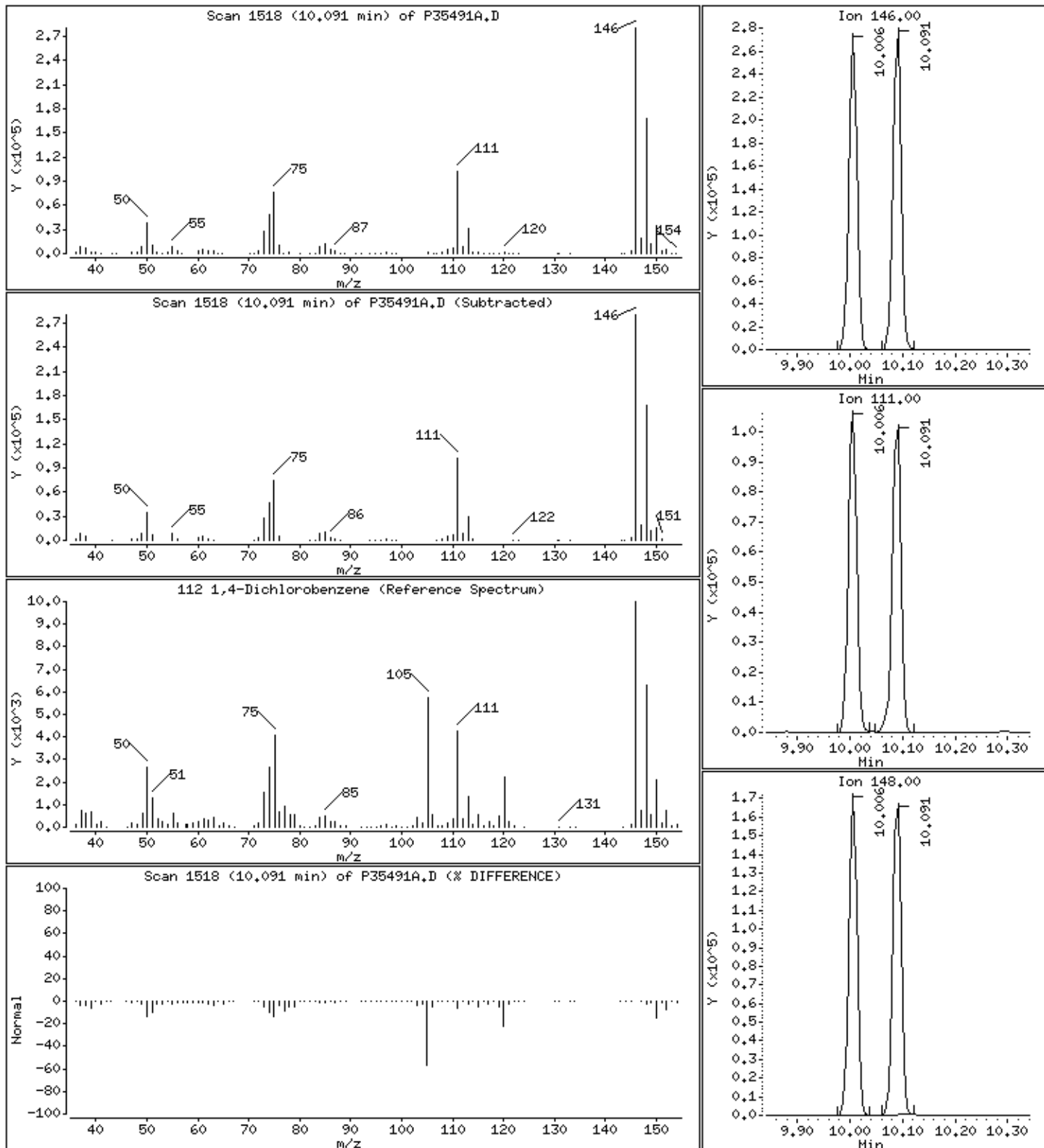




112 1,4-Dichlorobenzene

Concentration: 48,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

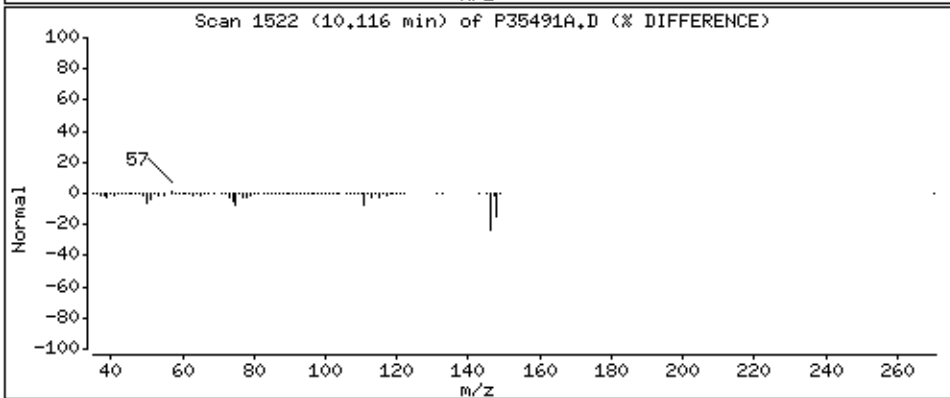
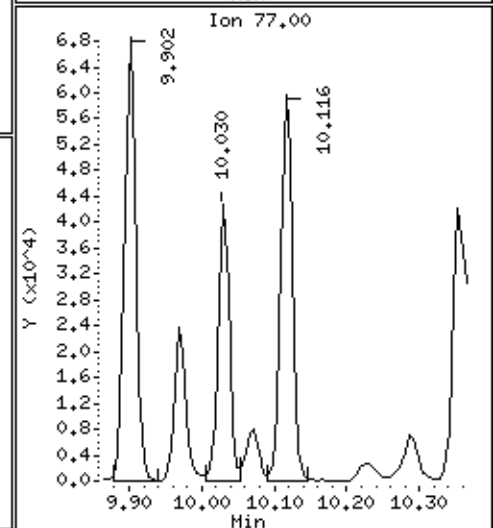
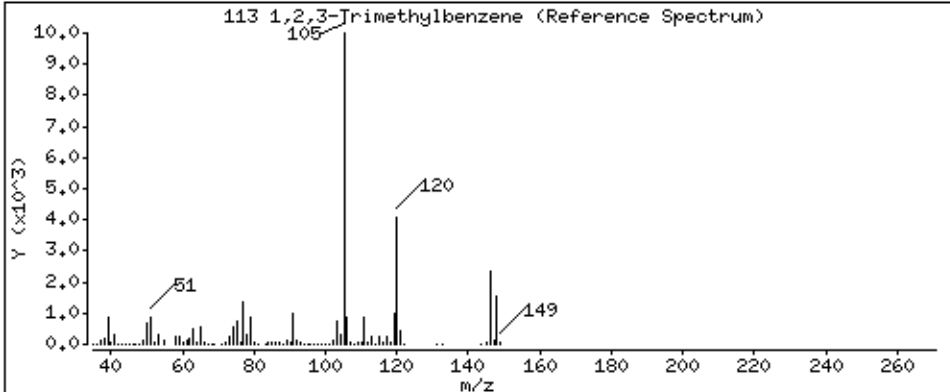
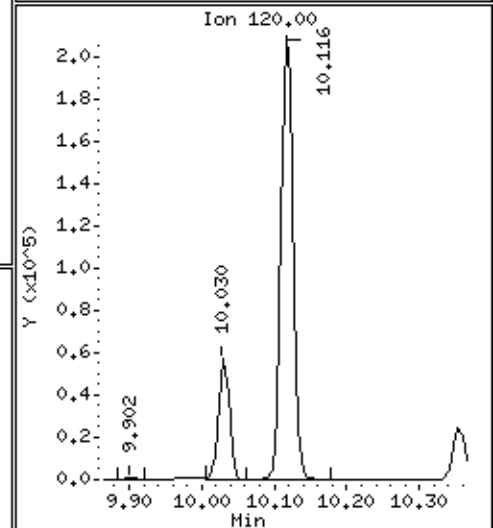
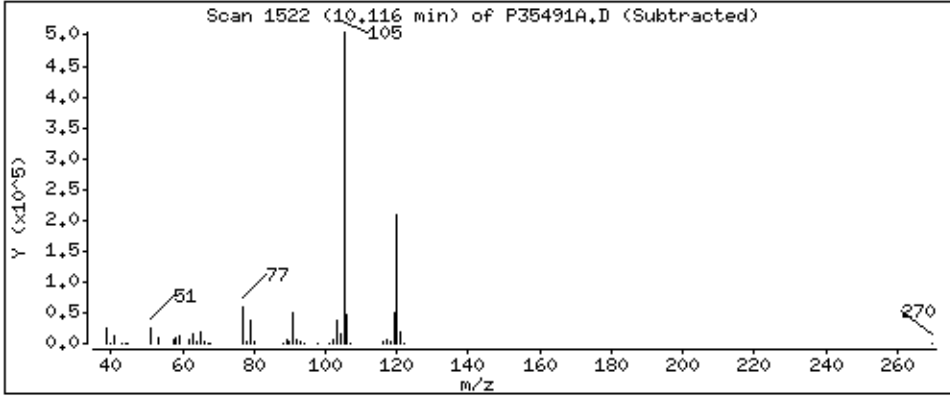
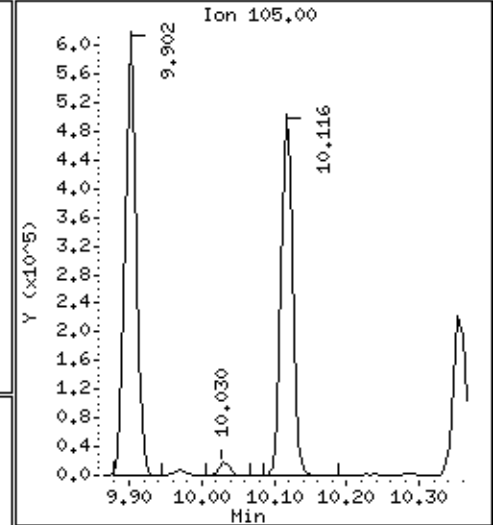
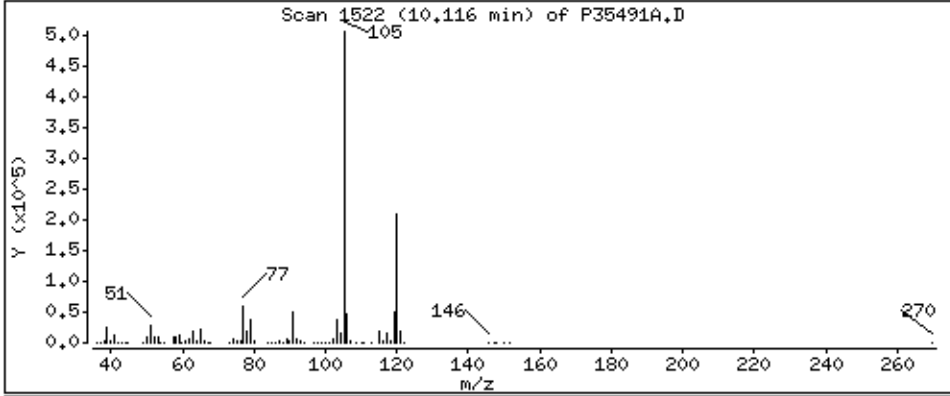
Column phase: RTX-624

Column diameter: 0.18

113 1,2,3-Trimethylbenzene

Concentration: 47.7 ug/L

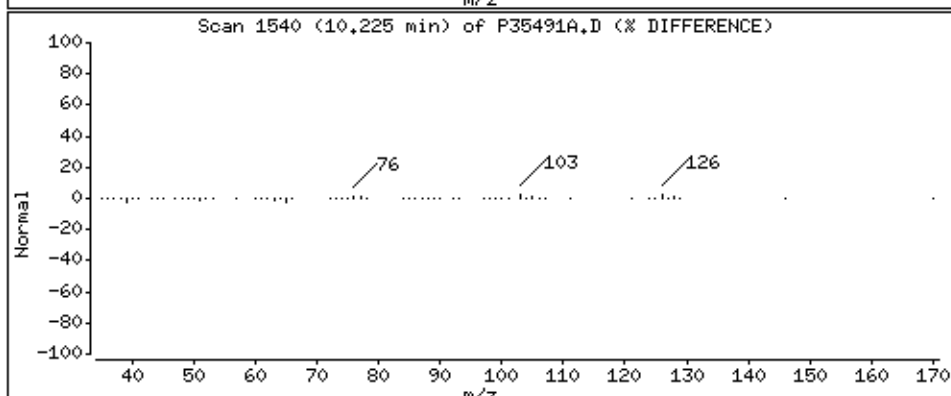
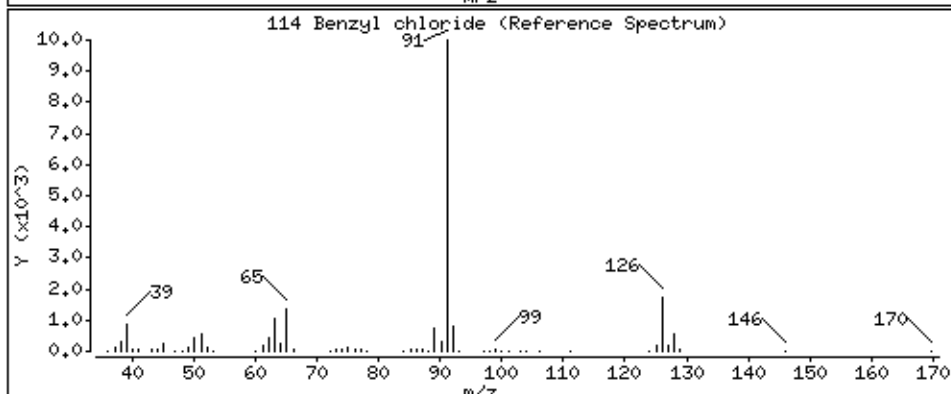
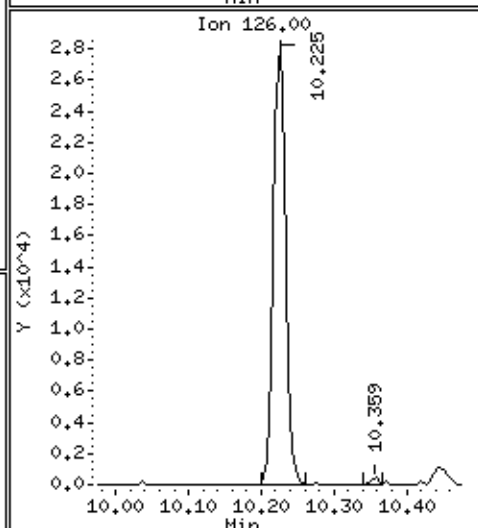
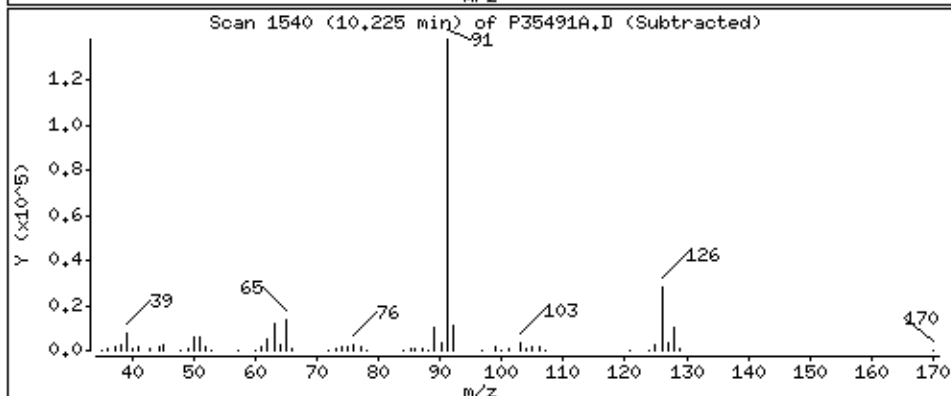
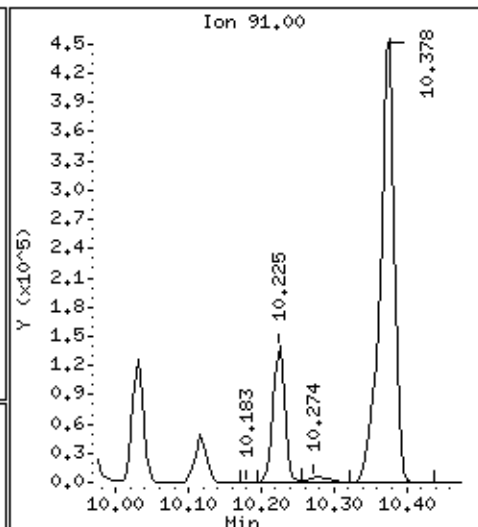
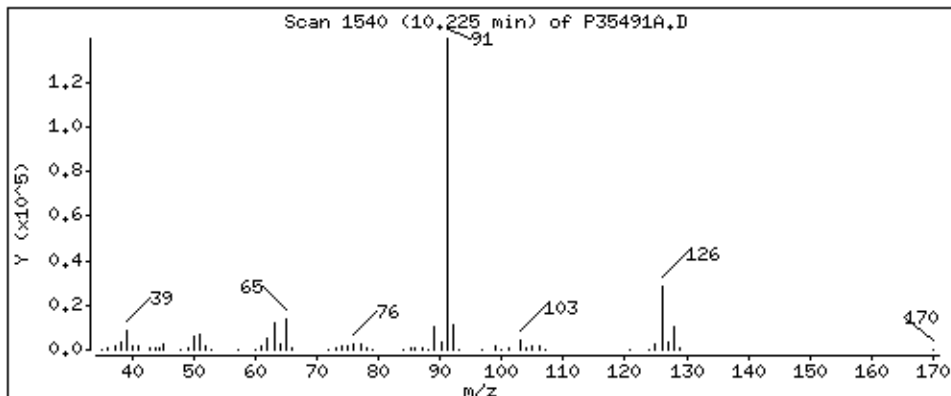
Review Code:



114 Benzyl chloride

Concentration: 39,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

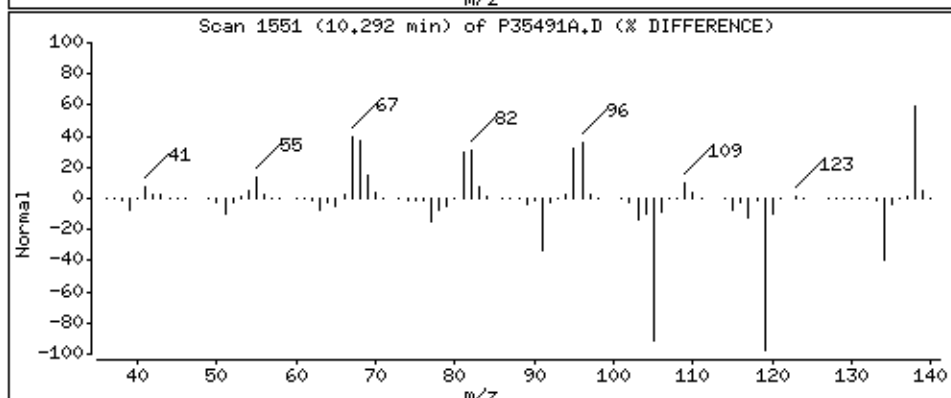
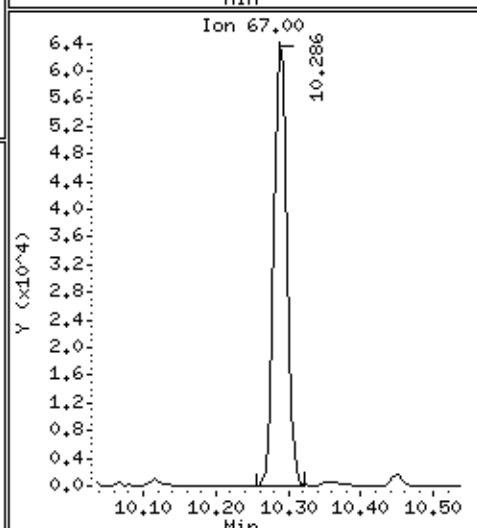
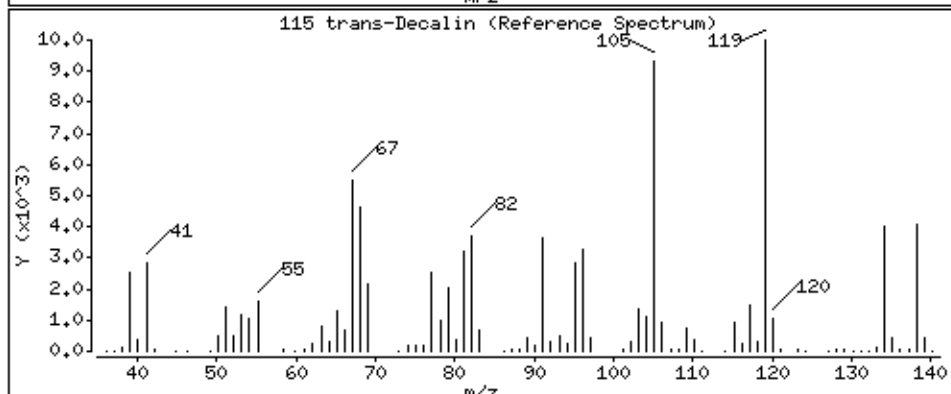
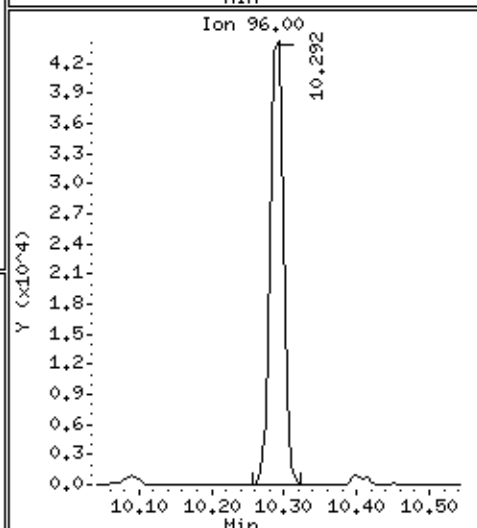
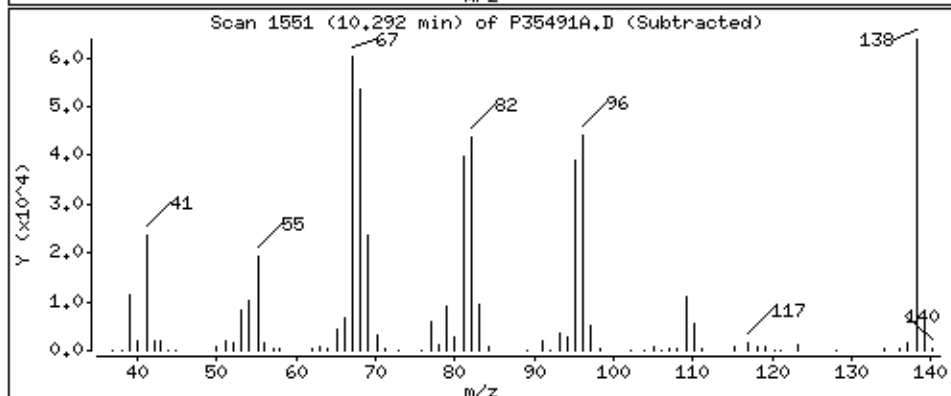
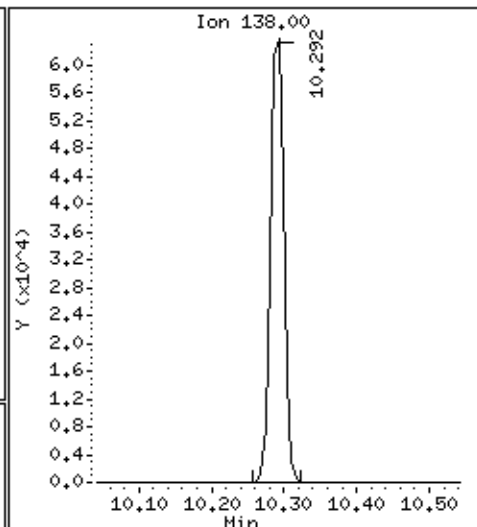
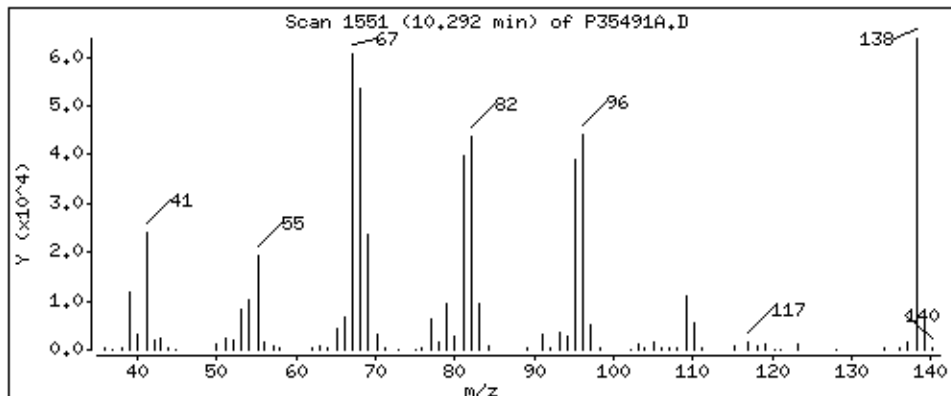
Column phase: RTX-624

Column diameter: 0.18

115 trans-Decalin

Concentration: 41.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

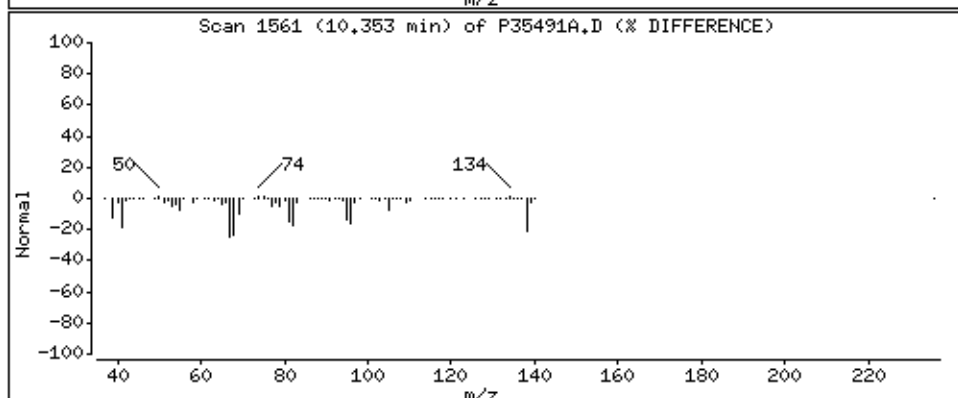
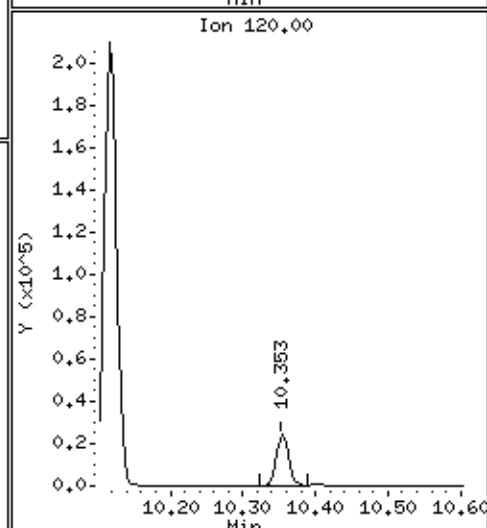
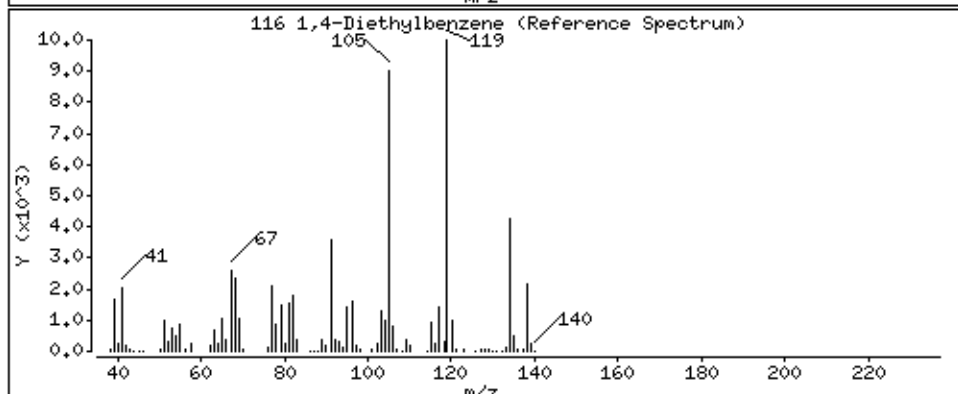
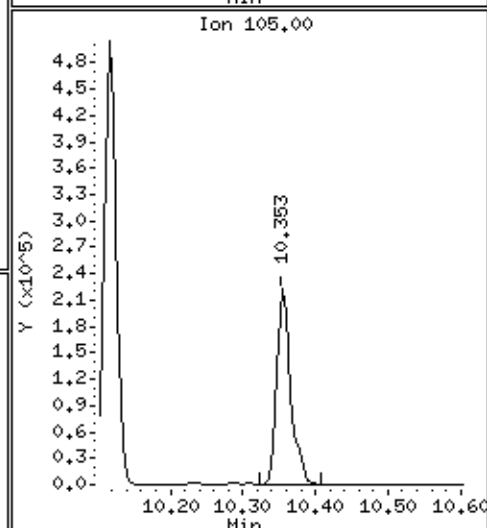
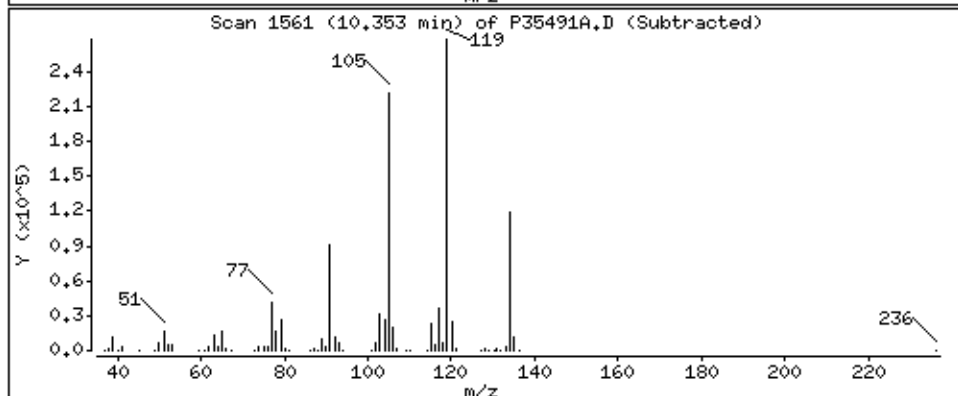
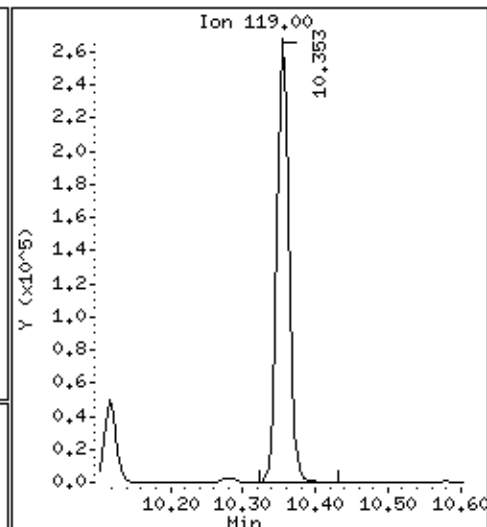
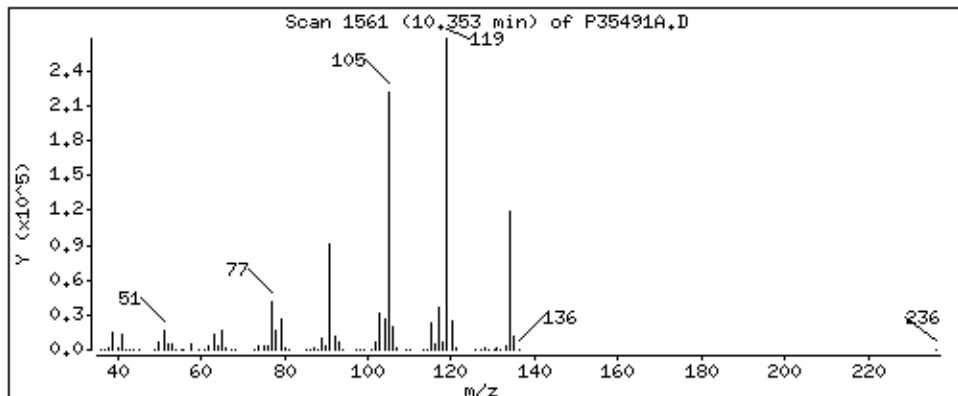
Column phase: RTX-624

Column diameter: 0.18

116 1,4-Diethylbenzene

Concentration: 45.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

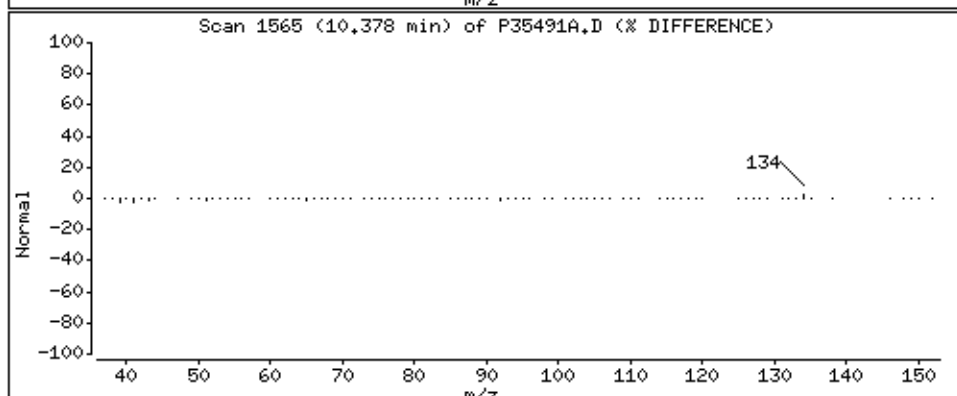
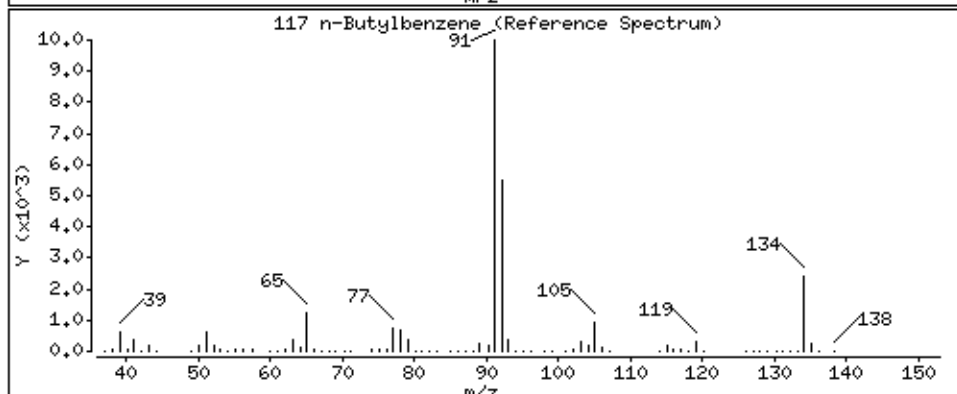
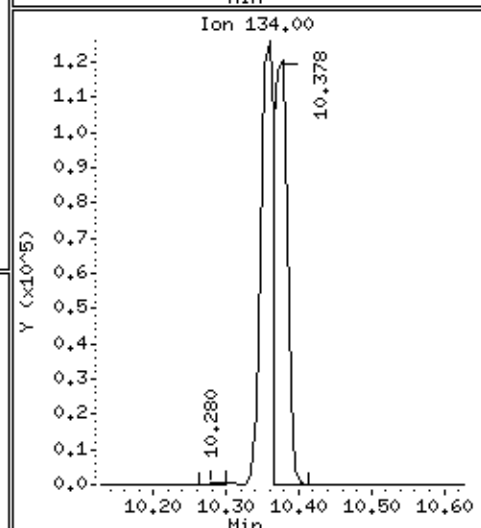
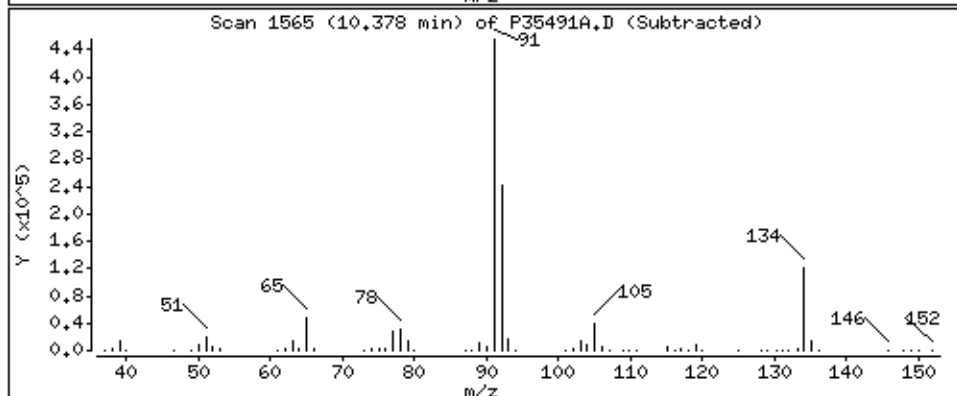
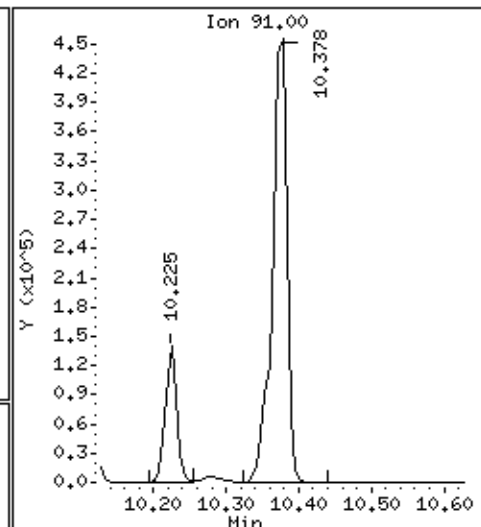
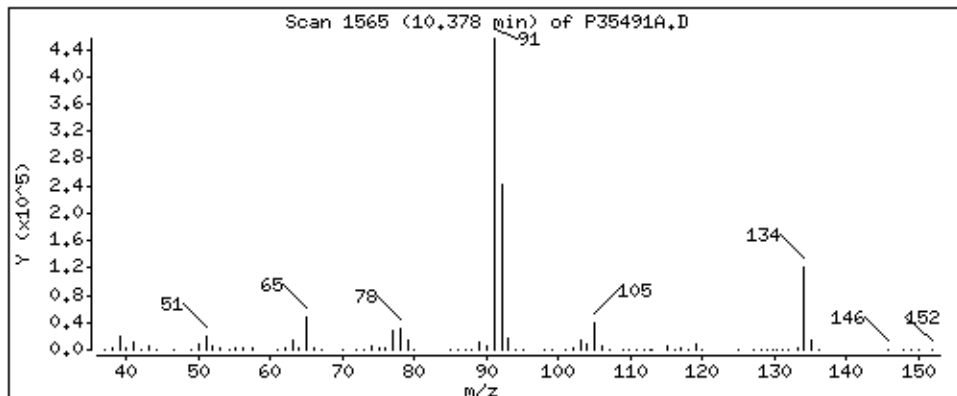
Column phase: RTX-624

Column diameter: 0,18

117 n-Butylbenzene

Concentration: 46,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1.25

Purge Volume: 5.0

Operator: KGG

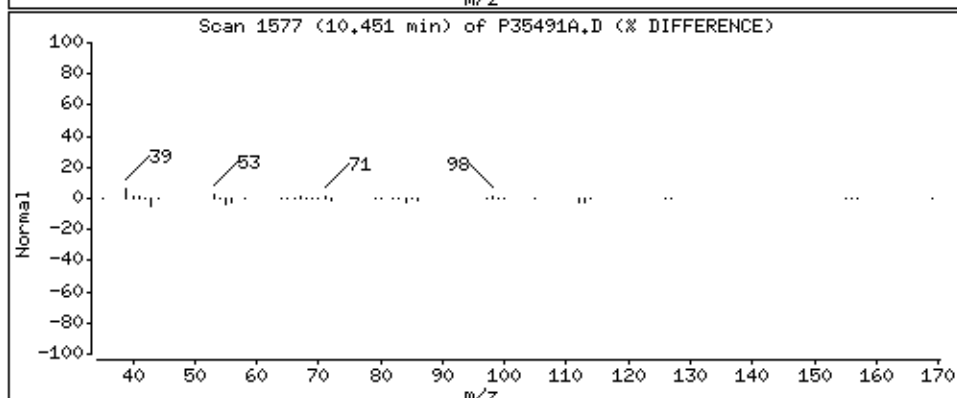
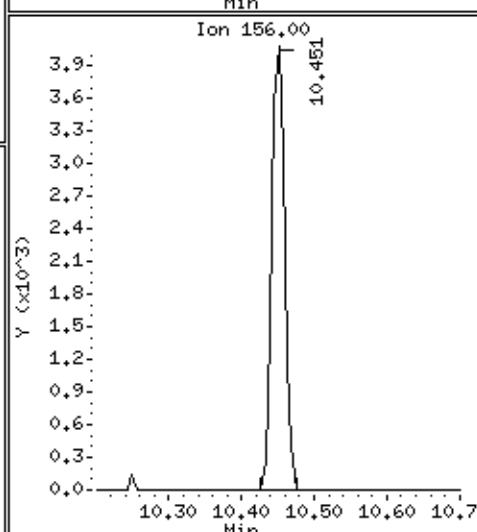
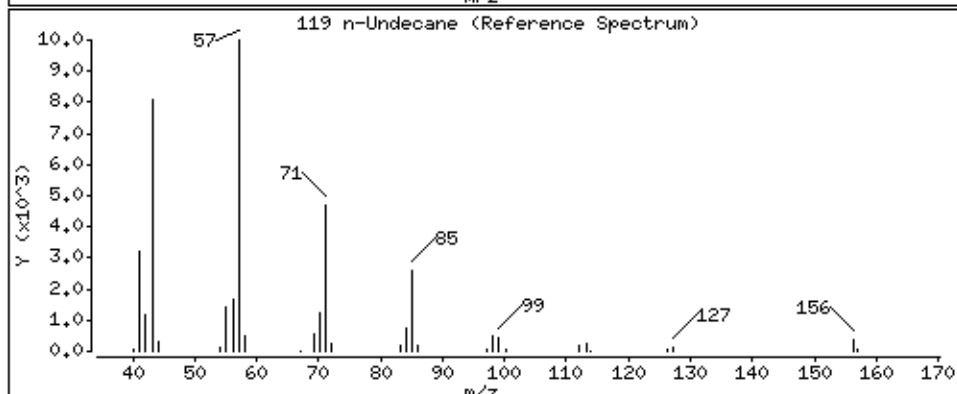
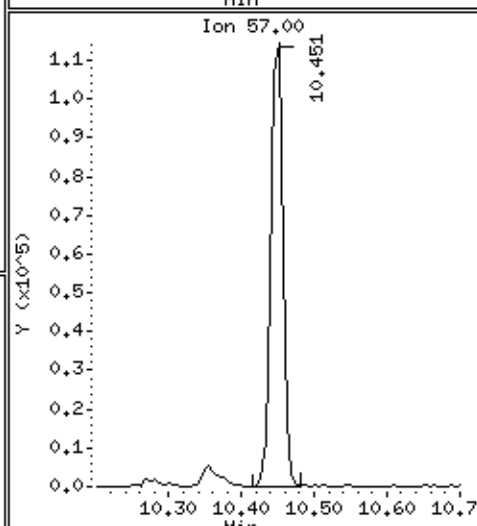
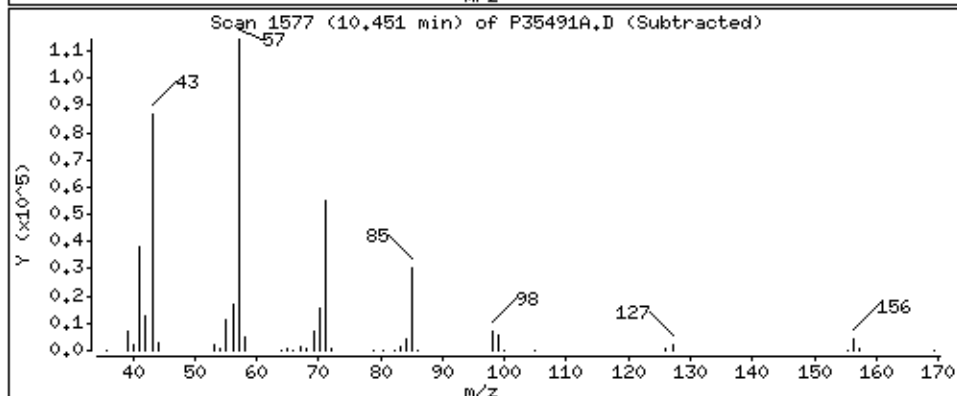
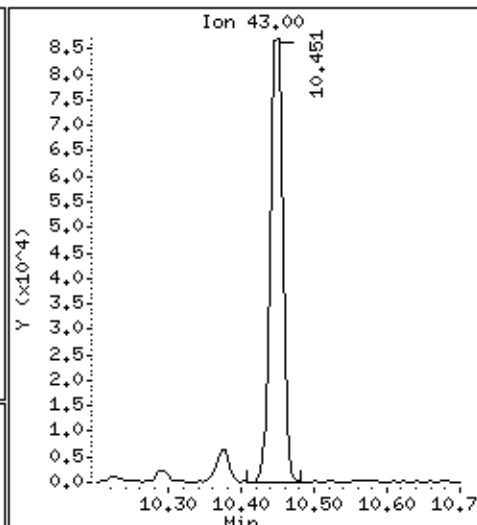
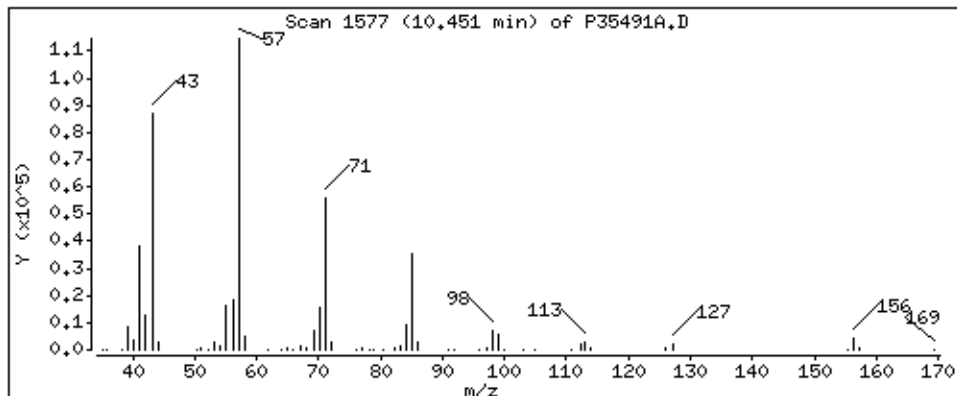
Column phase: RTX-624

Column diameter: 0,18

119 n-Undecane

Concentration: 77,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1,25

Purge Volume: 5.0

Operator: KGG

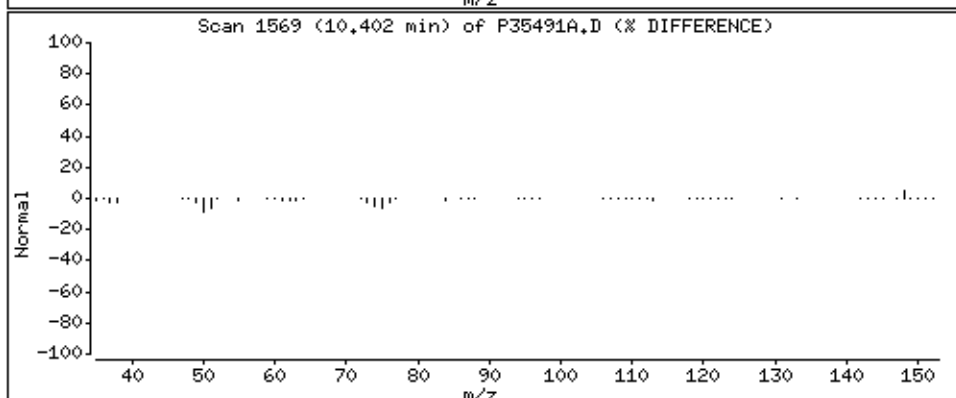
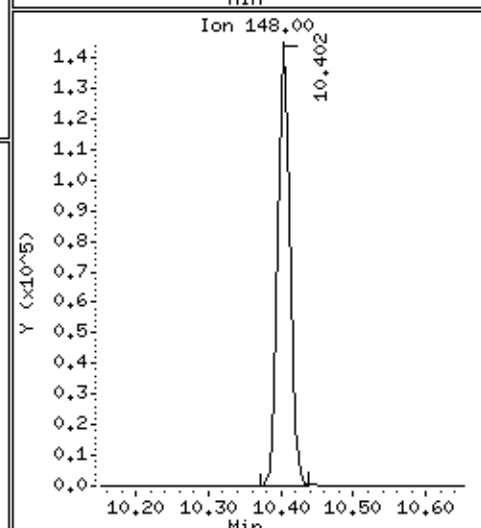
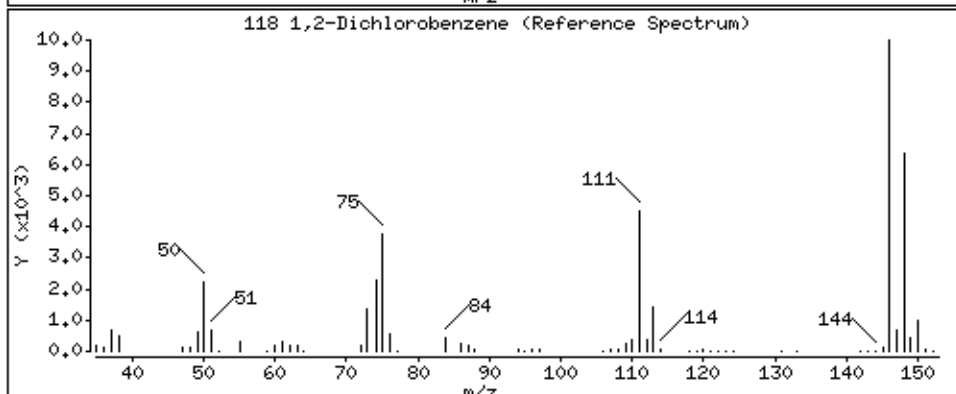
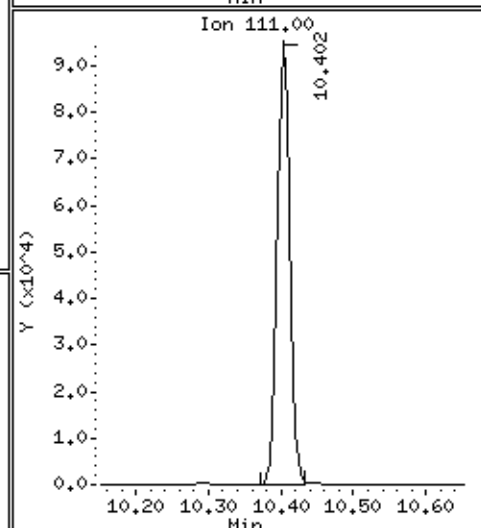
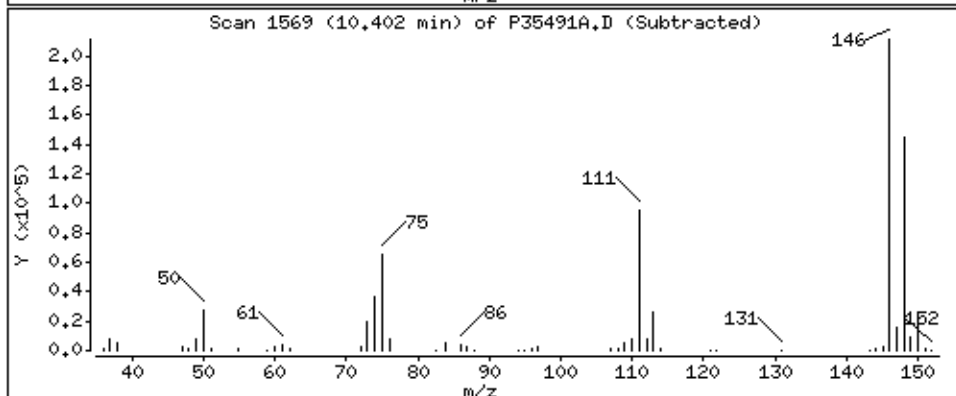
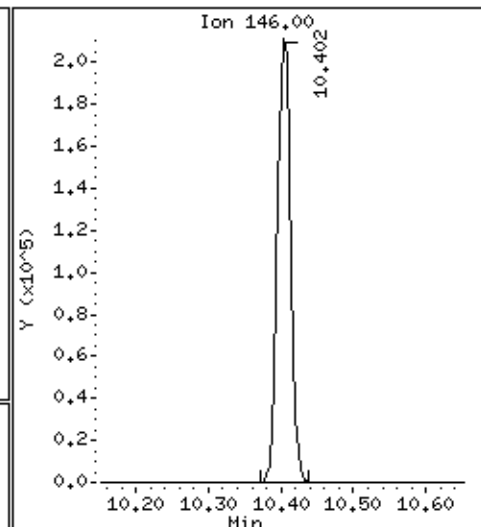
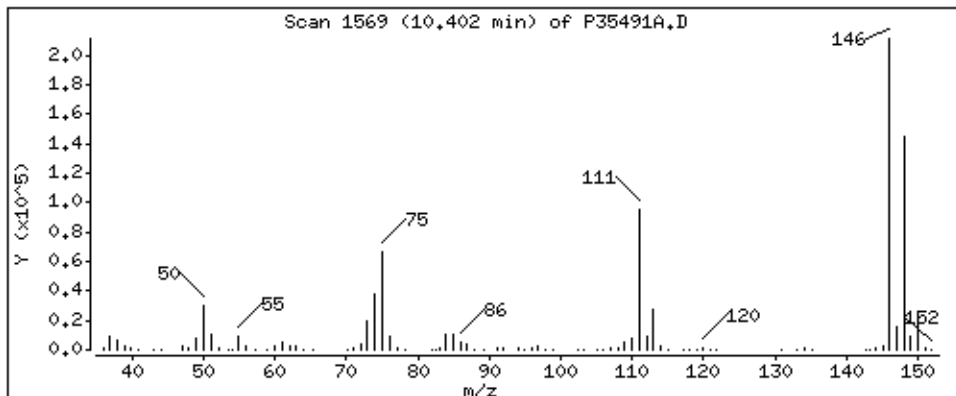
Column phase: RTX-624

Column diameter: 0,18

118 1,2-Dichlorobenzene

Concentration: 49,7 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

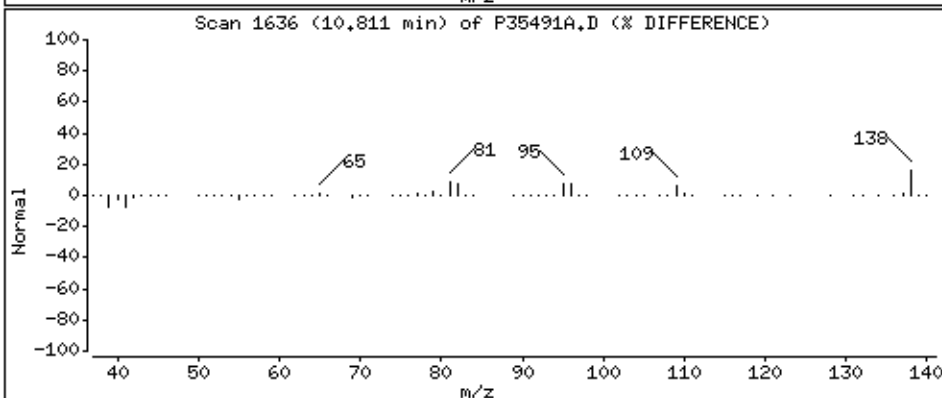
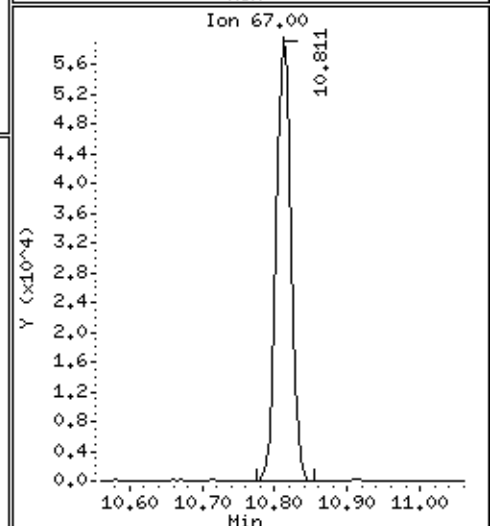
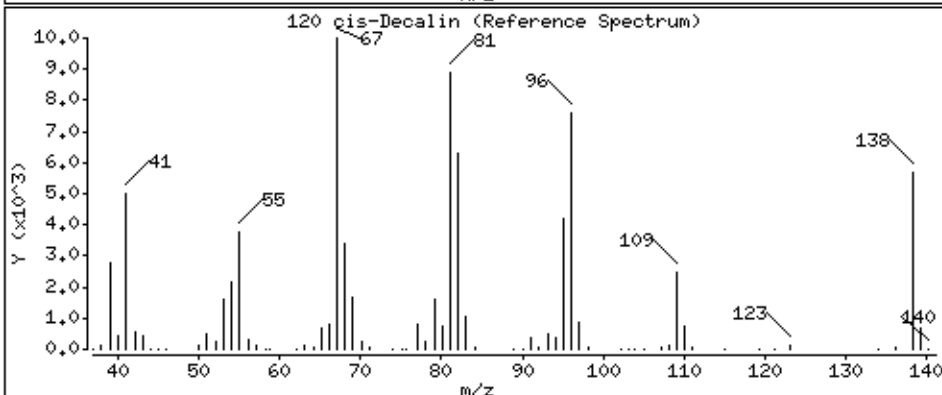
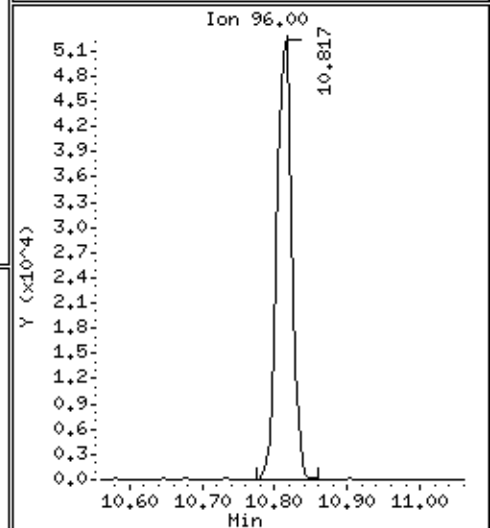
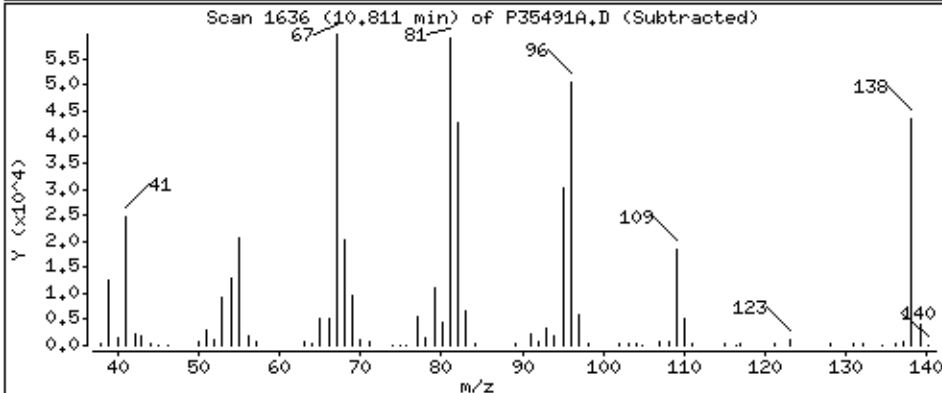
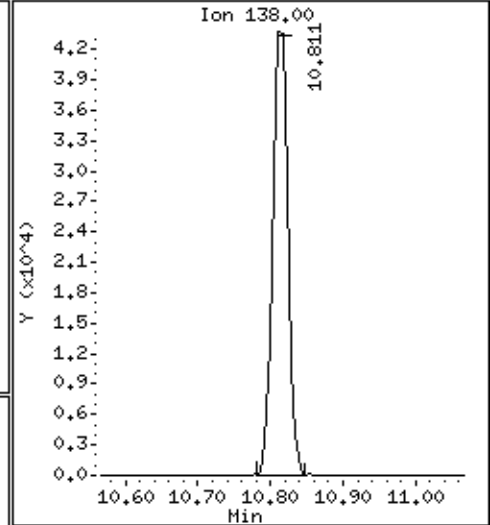
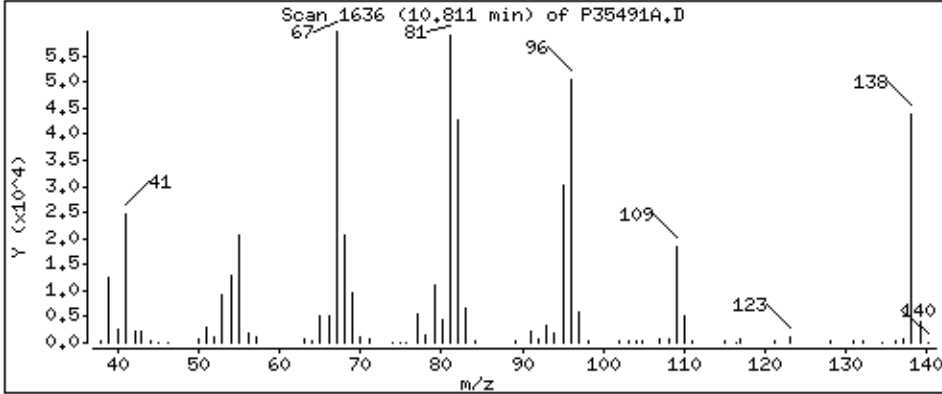
Column phase: RTX-624

Column diameter: 0,18

120 cis-Decalin

Concentration: 43,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

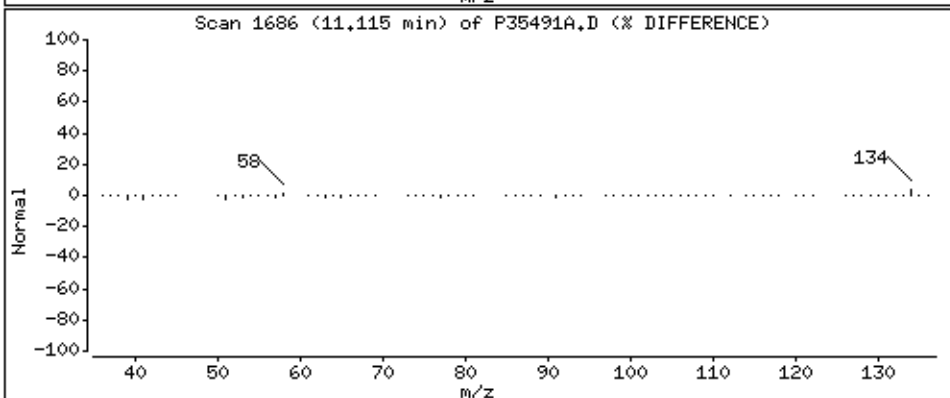
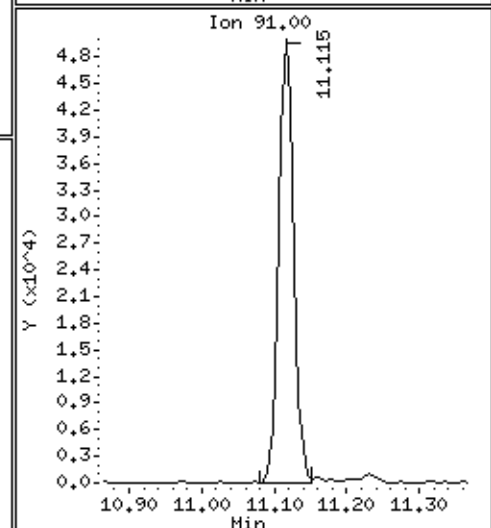
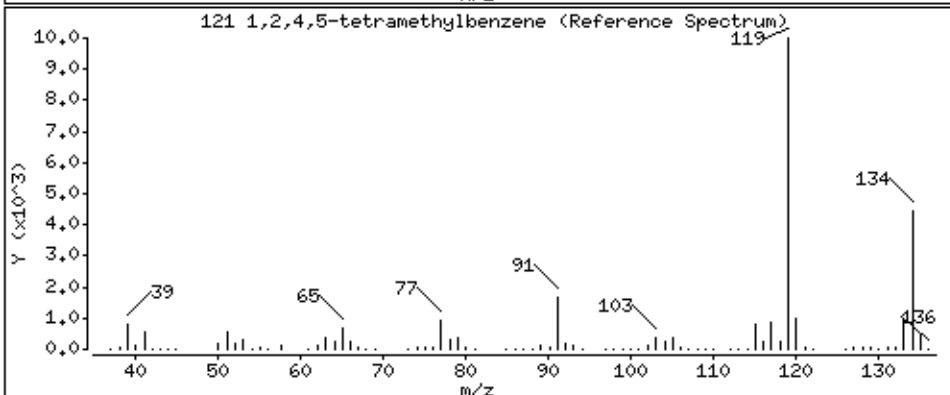
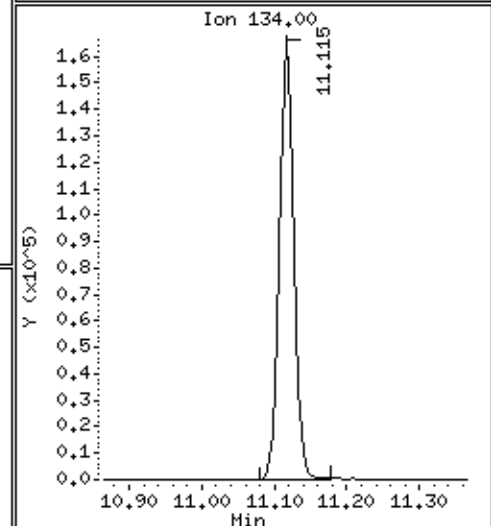
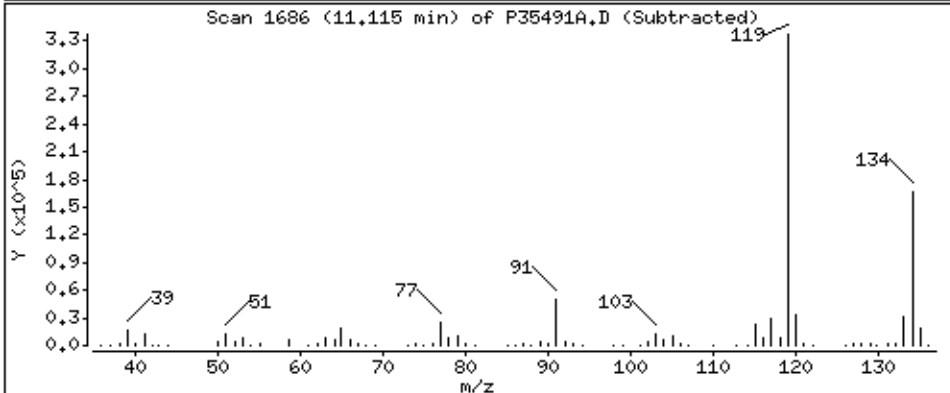
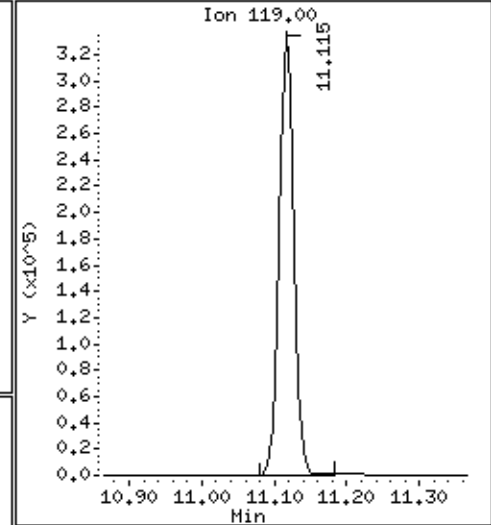
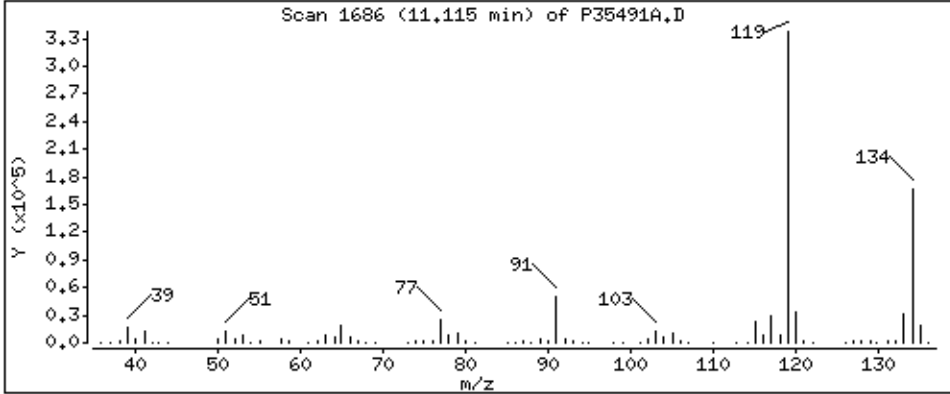
Column phase: RTX-624

Column diameter: 0,18

121 1,2,4,5-tetramethylbenzene

Concentration: 49,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1.25

Purge Volume: 5.0

Operator: KGG

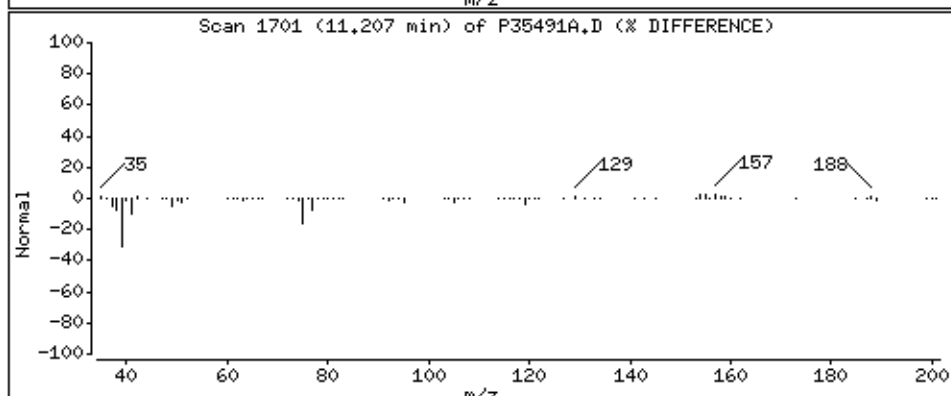
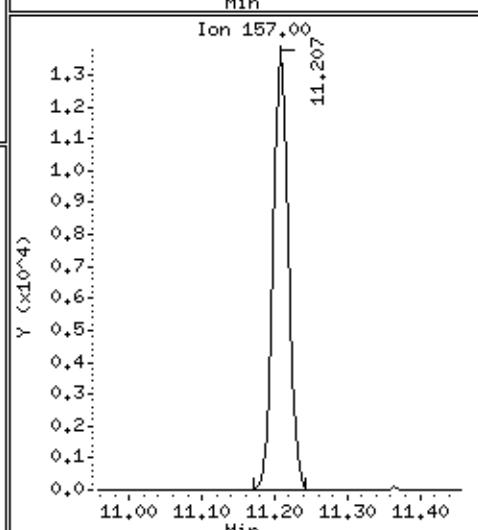
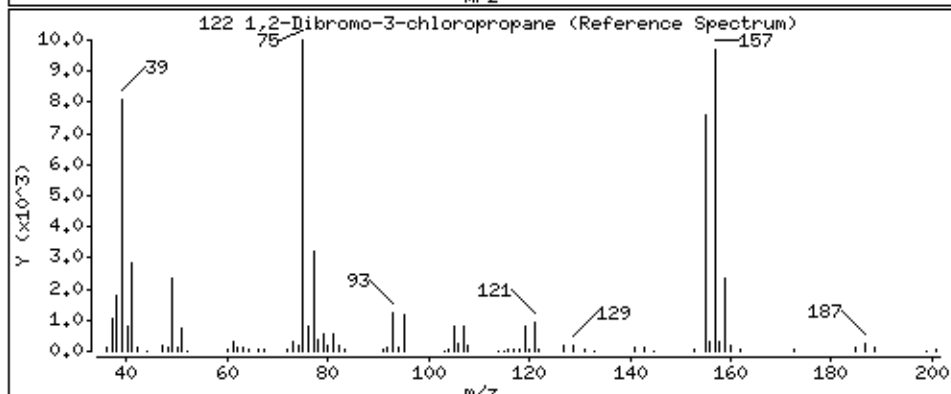
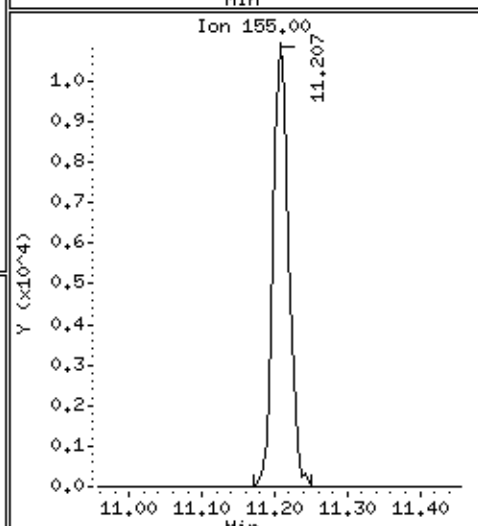
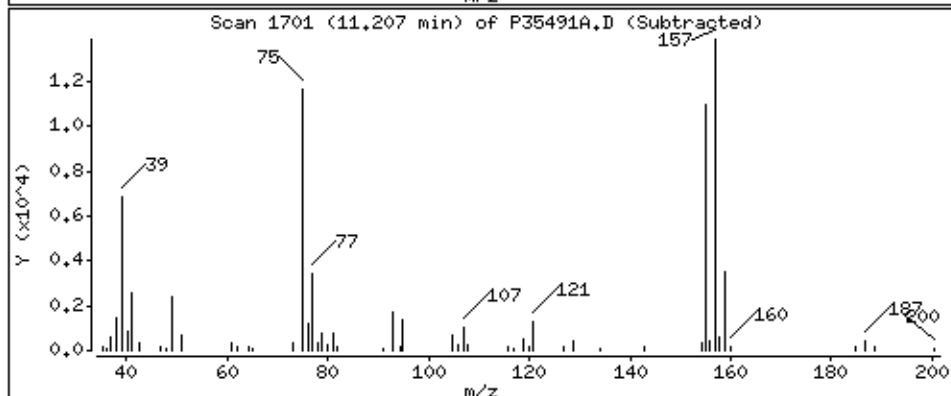
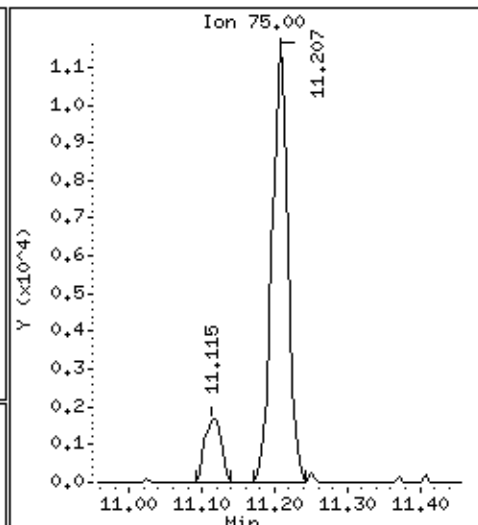
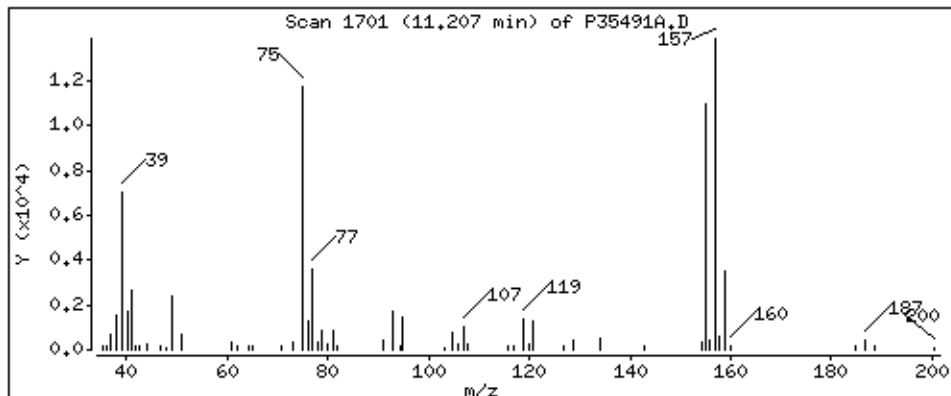
Column phase: RTX-624

Column diameter: 0.18

122 1,2-Dibromo-3-chloropropane

Concentration: 41.8 ug/L

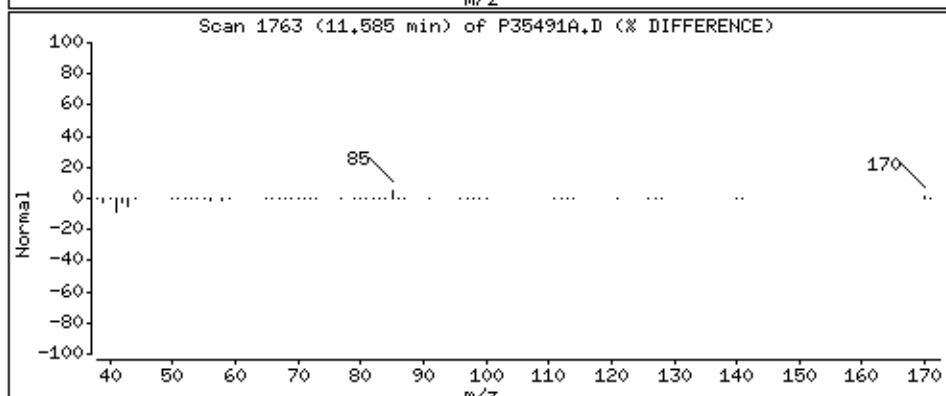
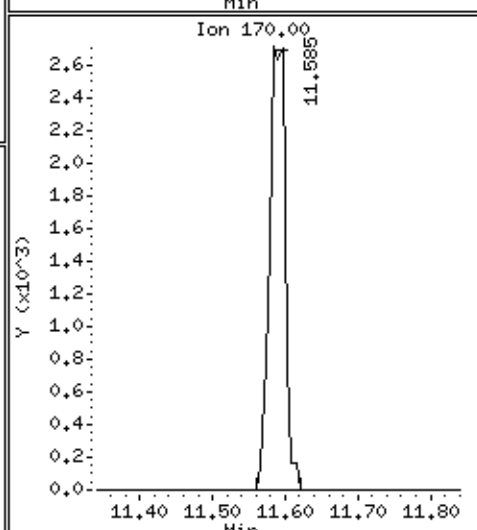
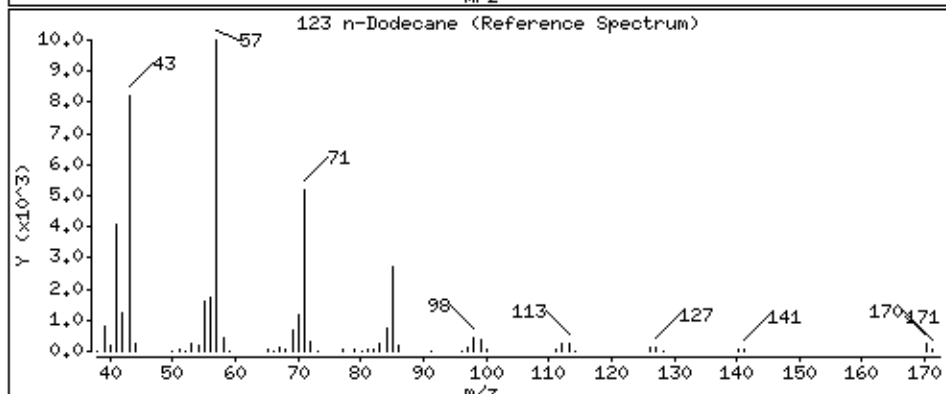
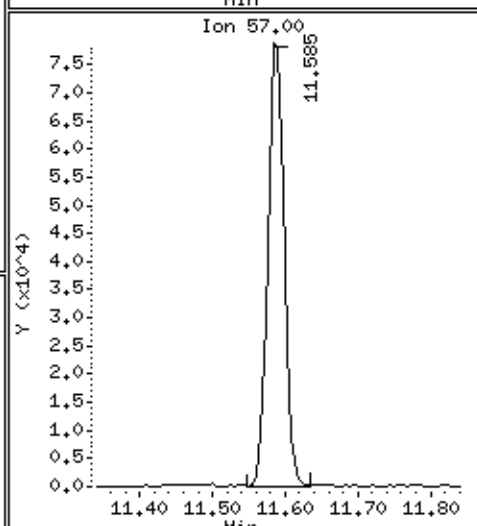
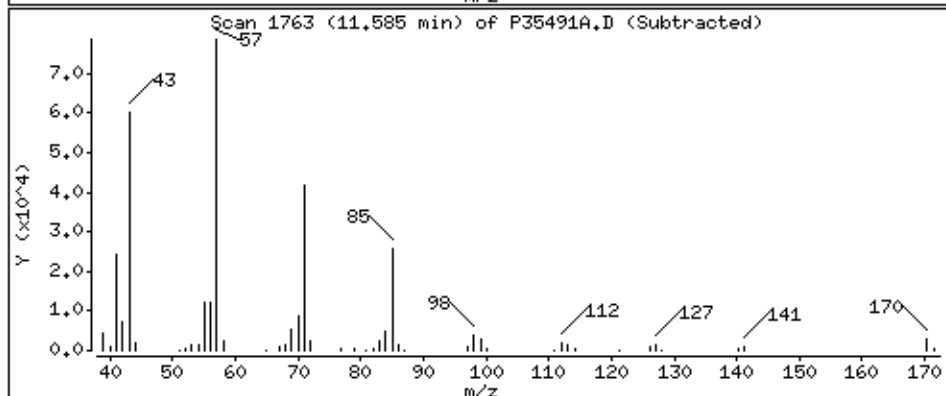
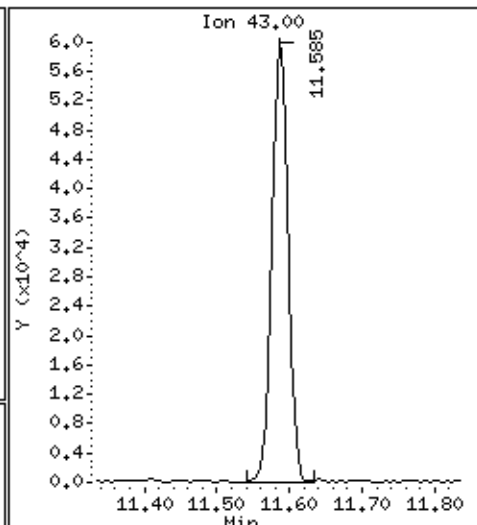
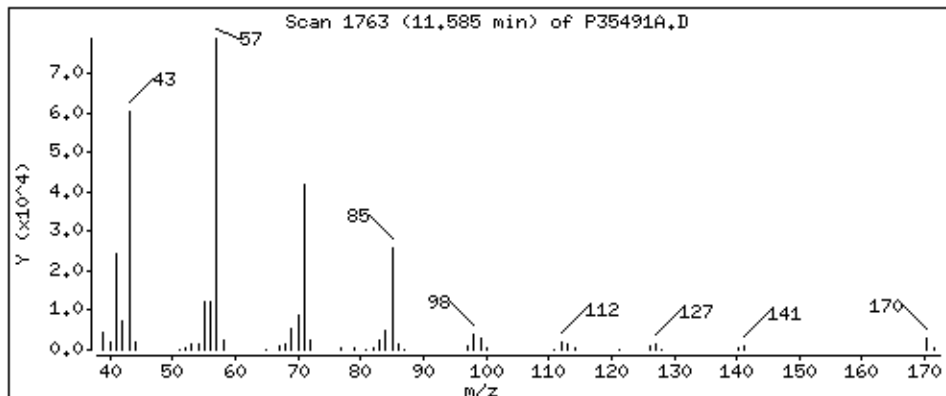
Review Code:



123 n-Dodecane

Concentration: 163 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466;1,25

Purge Volume: 5.0

Operator: KGG

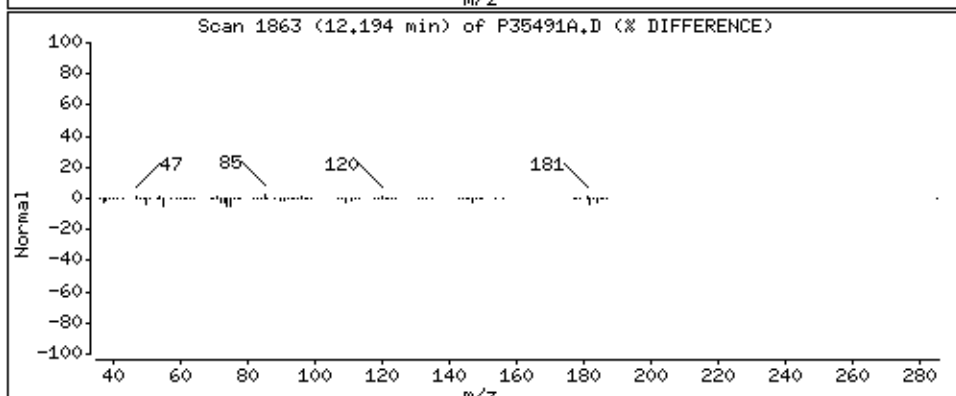
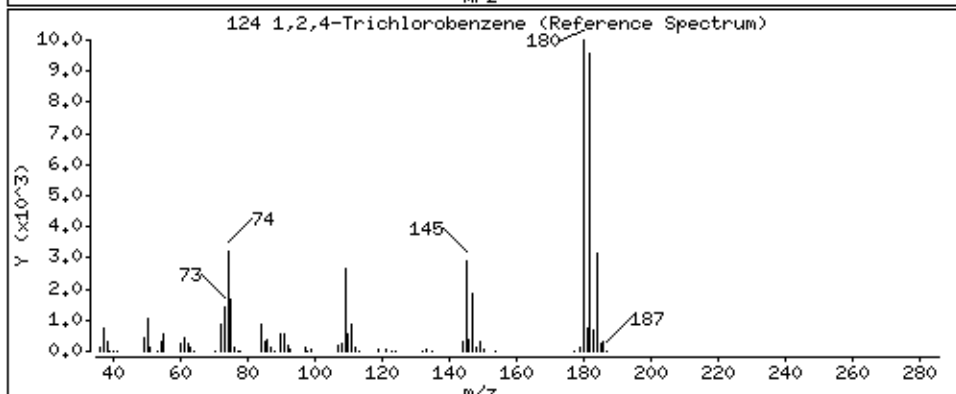
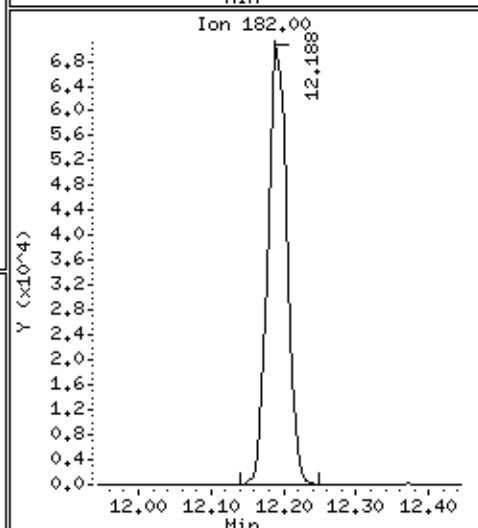
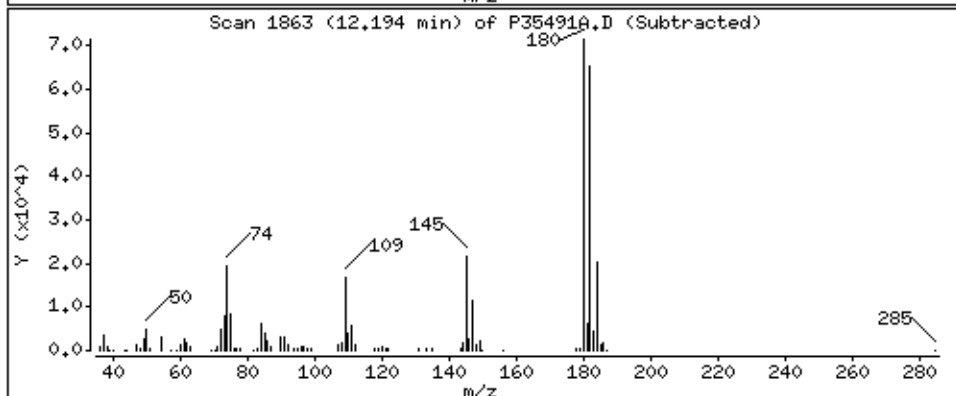
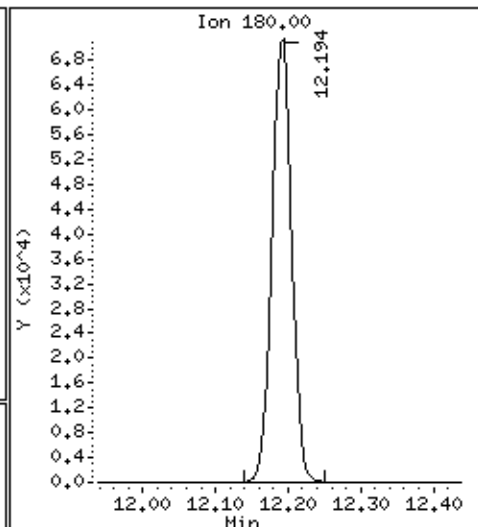
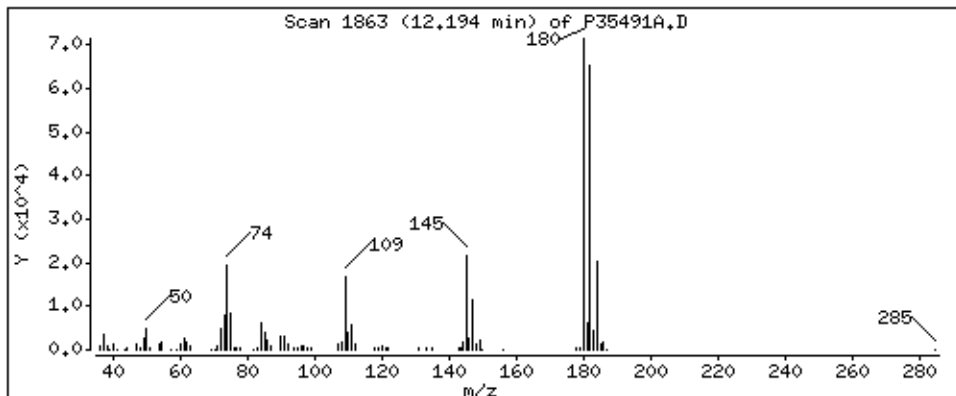
Column phase: RTX-624

Column diameter: 0,18

124 1,2,4-Trichlorobenzene

Concentration: 50,4 ug/L

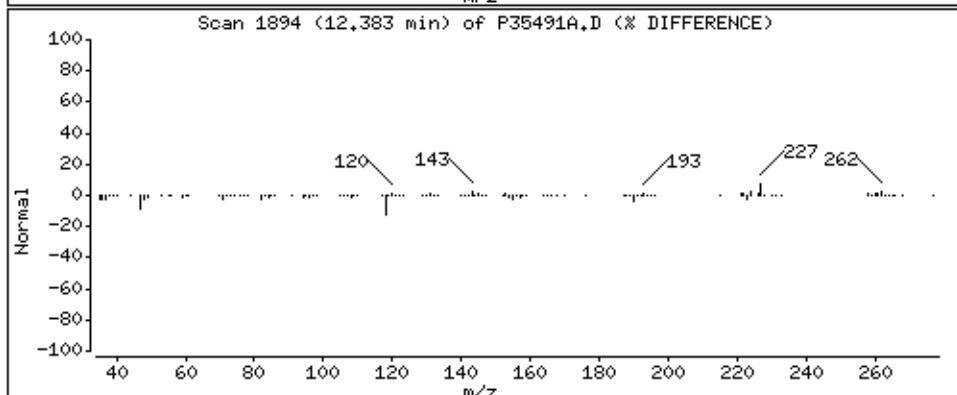
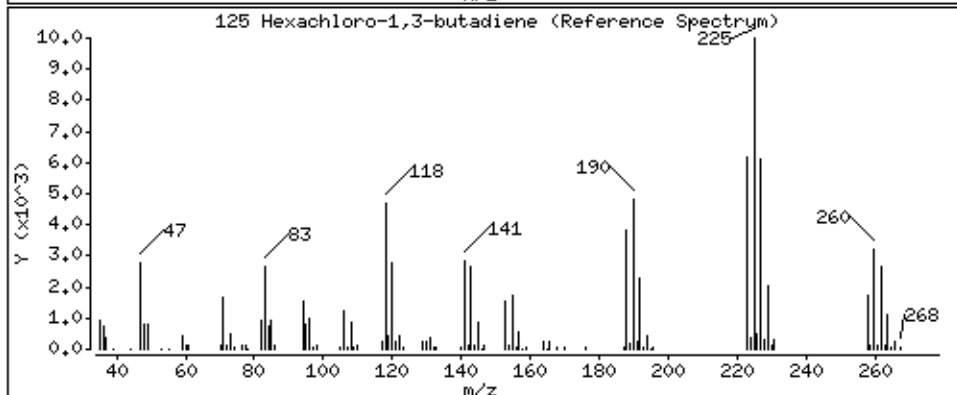
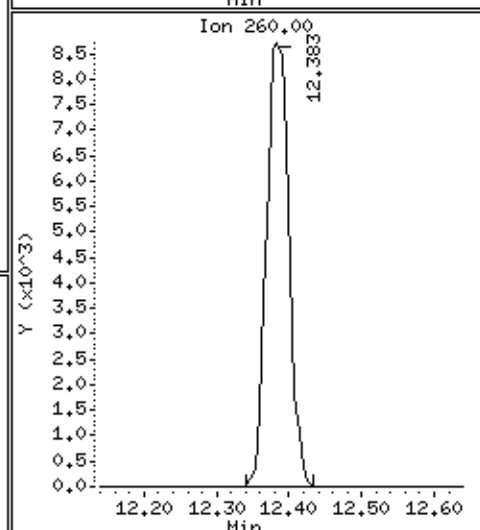
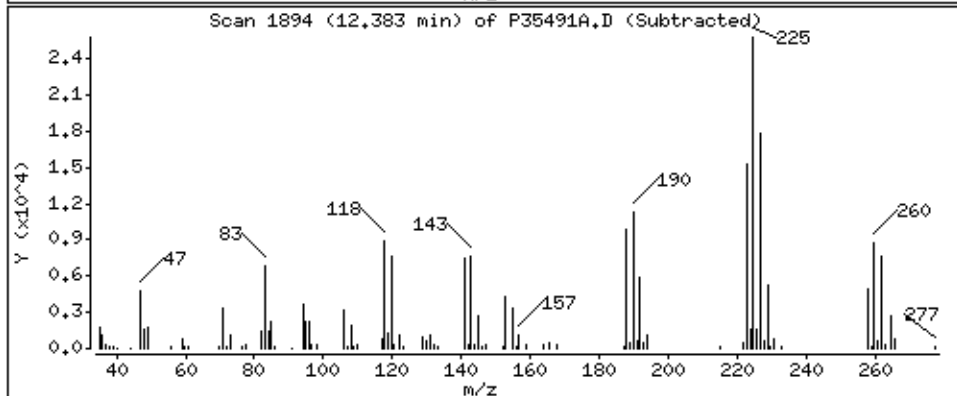
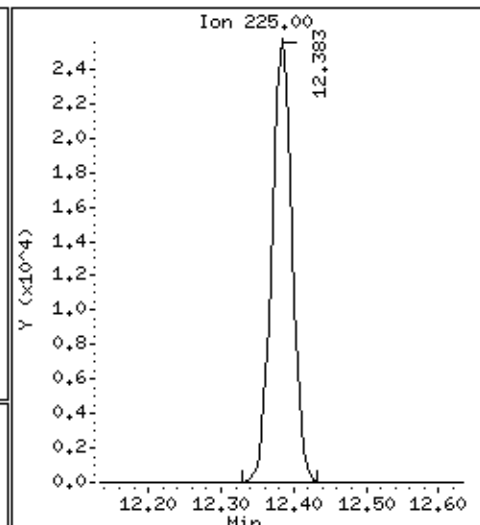
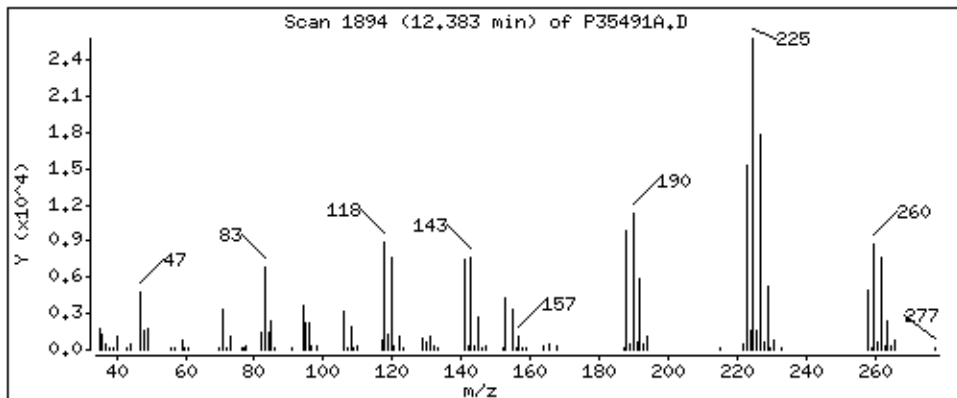
Review Code:



125 Hexachloro-1,3-butadiene

Concentration: 39,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35491A.D

Date : 20-OCT-2021 08:37

Client ID: MBLCS

Instrument: 70msv8.i

Sample Info: 1160402 120466:1,25

Purge Volume: 5.0

Operator: KGG

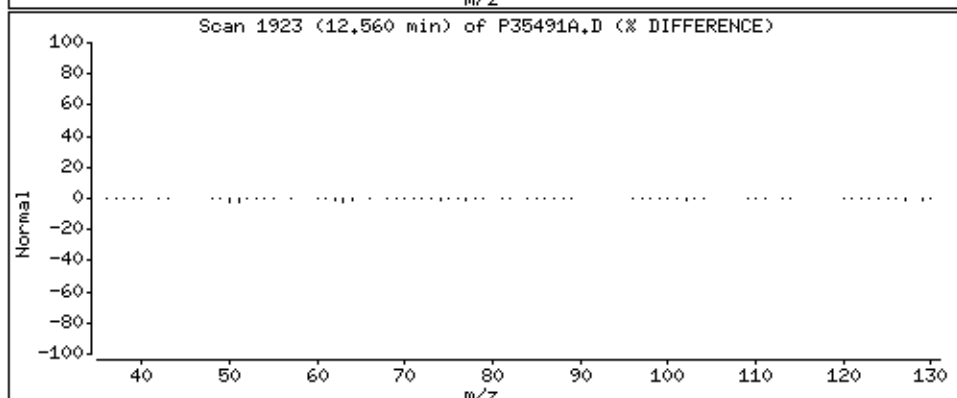
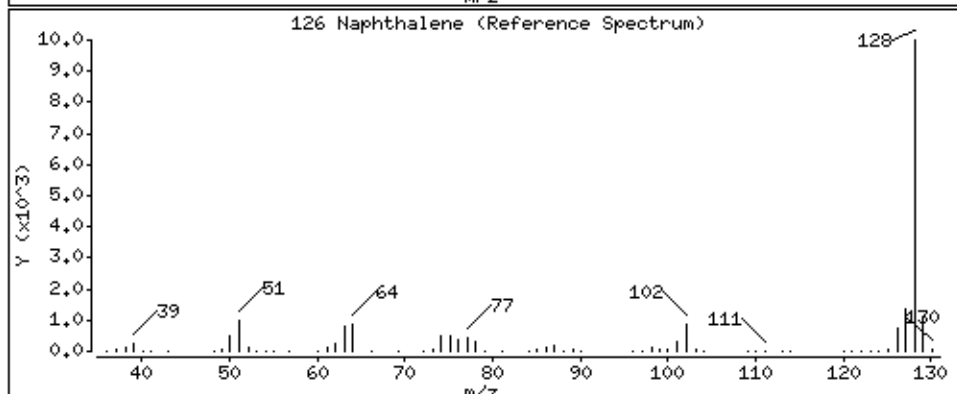
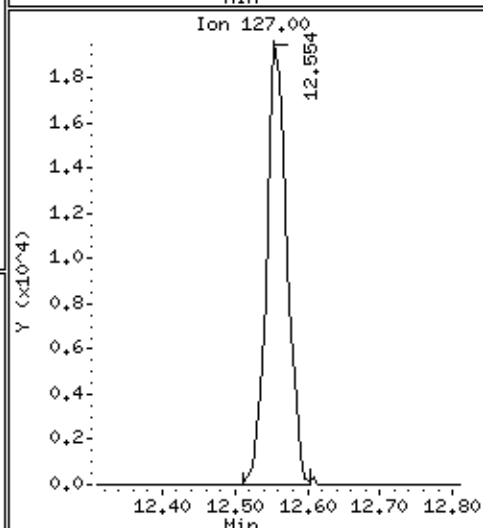
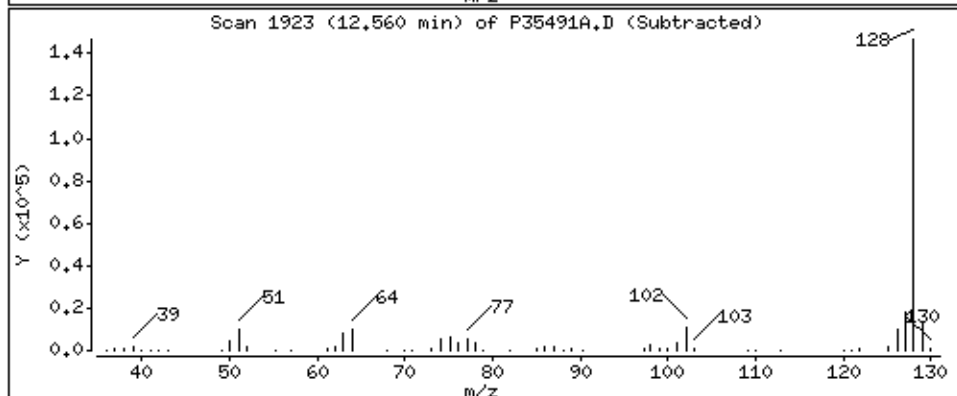
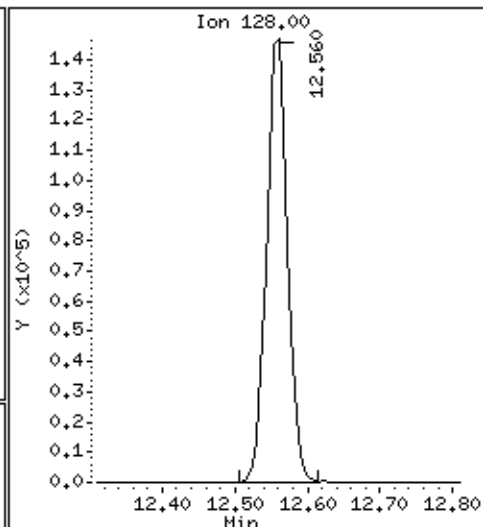
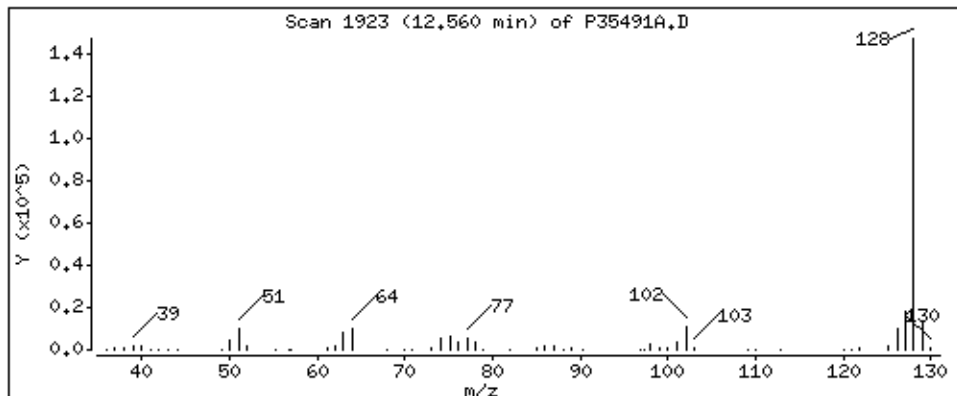
Column phase: RTX-624

Column diameter: 0,18

126 Naphthalene

Concentration: 48,2 ug/L

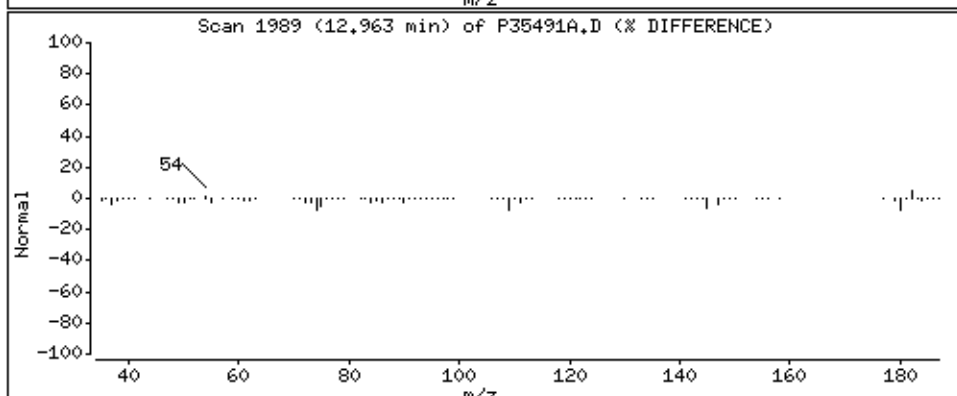
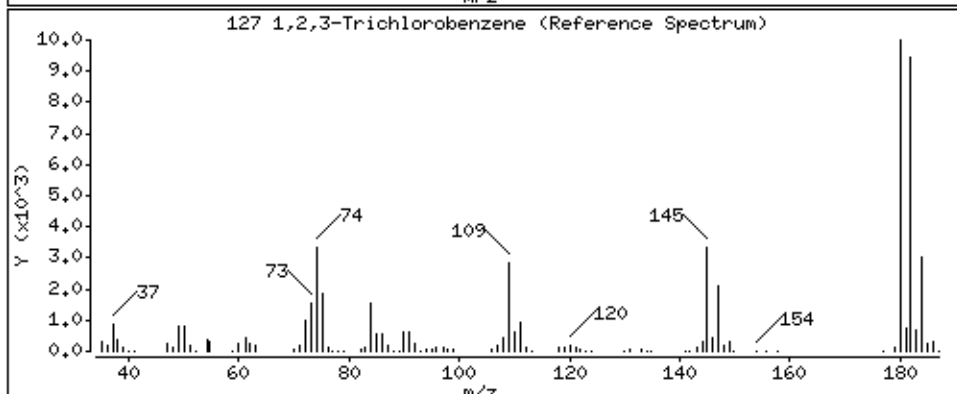
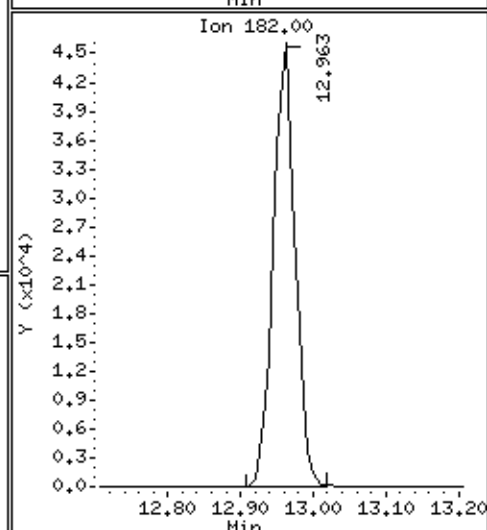
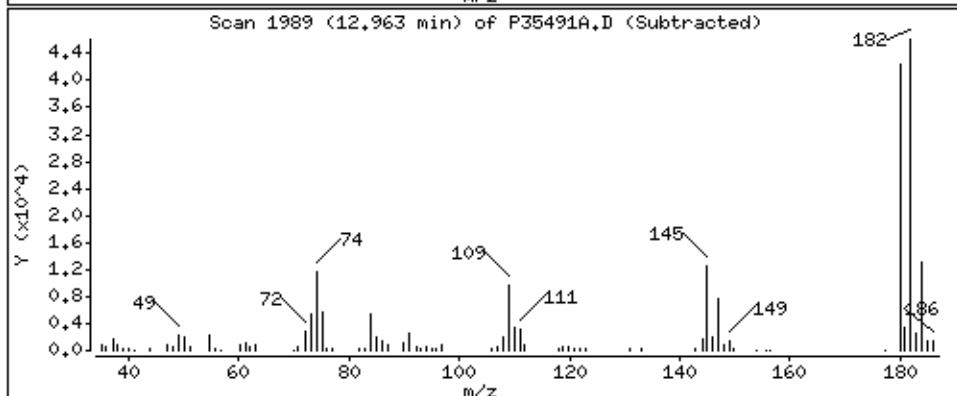
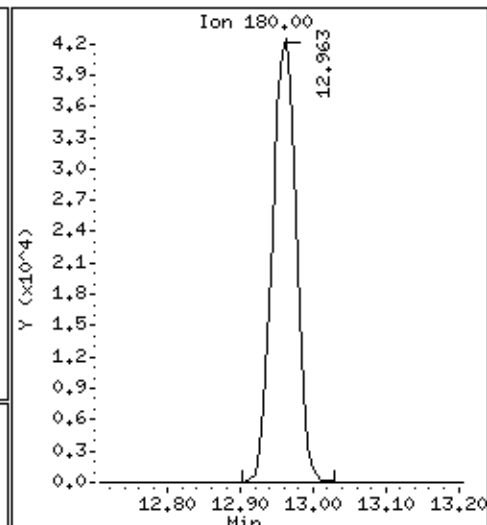
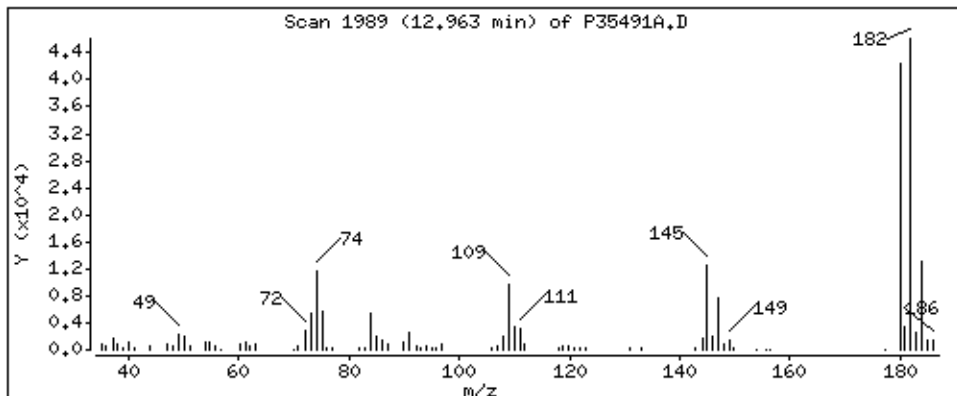
Review Code:



127 1,2,3-Trichlorobenzene

Concentration: 47.2 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35491A.D  
Injection Date: 20-OCT-2021 08:37  
Instrument: 70msv8.i  
Lab Sample ID: 1160402  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MS

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 15:09  
Date Analyzed: 10/20/2021 15:09  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160403  
Lab File ID: 102021.B\BP35511.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	33.2	
71-43-2	Benzene	50.0	
108-86-1	Bromobenzene	46.2	
74-97-5	Bromochloromethane	47.3	
75-27-4	Bromodichloromethane	45.8	
75-25-2	Bromoform	42.5	
74-83-9	Bromomethane	21.4	
78-93-3	2-Butanone (MEK)	41.1	
104-51-8	n-Butylbenzene	48.3	
135-98-8	sec-Butylbenzene	47.5	
98-06-6	tert-Butylbenzene	47.2	
75-15-0	Carbon disulfide	44.7	
56-23-5	Carbon tetrachloride	45.2	
108-90-7	Chlorobenzene	45.8	
75-00-3	Chloroethane	41.4	
67-66-3	Chloroform	46.6	
74-87-3	Chloromethane	25.3	
95-49-8	2-Chlorotoluene	46.5	
106-43-4	4-Chlorotoluene	47.6	
96-12-8	1,2-Dibromo-3-chloropropane	45.4	
124-48-1	Dibromochloromethane	40.9	
106-93-4	1,2-Dibromoethane (EDB)	46.0	
74-95-3	Dibromomethane	47.5	
95-50-1	1,2-Dichlorobenzene	46.5	
541-73-1	1,3-Dichlorobenzene	46.0	
106-46-7	1,4-Dichlorobenzene	46.3	
75-71-8	Dichlorodifluoromethane	20.3	
75-34-3	1,1-Dichloroethane	44.6	
107-06-2	1,2-Dichloroethane	44.0	
75-35-4	1,1-Dichloroethene	51.3	
156-59-2	cis-1,2-Dichloroethene	49.0	
156-60-5	trans-1,2-Dichloroethene	47.3	
78-87-5	1,2-Dichloropropane	46.4	
142-28-9	1,3-Dichloropropane	47.3	
594-20-7	2,2-Dichloropropane	41.6	
563-58-6	1,1-Dichloropropene	44.1	
10061-01-5	cis-1,3-Dichloropropene	46.3	

11/11/2021 2:03

MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MS

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 15:09  
Date Analyzed: 10/20/2021 15:09  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160403  
Lab File ID: 102021.B\P35511.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	43.9	
123-91-1	1,4-Dioxane (p-Dioxane)	1030	
100-41-4	Ethylbenzene	44.9	
87-68-3	Hexachloro-1,3-butadiene	38.6	
591-78-6	2-Hexanone	36.0	
98-82-8	Isopropylbenzene (Cumene)	46.4	
99-87-6	p-Isopropyltoluene	49.3	
75-09-2	Methylene Chloride	61.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	43.9	
1634-04-4	Methyl-tert-butyl ether	42.9	
91-20-3	Naphthalene	48.4	
103-65-1	n-Propylbenzene	47.4	
100-42-5	Styrene	47.3	
630-20-6	1,1,1,2-Tetrachloroethane	43.8	
79-34-5	1,1,2,2-Tetrachloroethane	49.6	
127-18-4	Tetrachloroethene	43.0	
108-88-3	Toluene	49.9	
87-61-6	1,2,3-Trichlorobenzene	43.0	
120-82-1	1,2,4-Trichlorobenzene	46.6	
71-55-6	1,1,1-Trichloroethane	44.2	
79-00-5	1,1,2-Trichloroethane	46.6	
79-01-6	Trichloroethene	45.9	
75-69-4	Trichlorofluoromethane	43.2	
96-18-4	1,2,3-Trichloropropane	46.4	
95-63-6	1,2,4-Trimethylbenzene	53.3	
108-67-8	1,3,5-Trimethylbenzene	51.8	
108-05-4	Vinyl acetate	42.0	
75-01-4	Vinyl chloride	35.6	
1330-20-7	Xylene (Total)	148	
179601-23-1	m&p-Xylene	96.8	
95-47-6	o-Xylene	51.3	

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35511.D  
 Lab Smp Id: 1160403 Client Smp ID: MW-5A/AR MS/MSDMS  
 Inj Date : 20-OCT-2021 15:09 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 1160403, 120466:1.25  
 Misc Info : 12755,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 24 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
							ON-COLUMN ( ug/L)	FINAL ( ug/L)	
1 Chlorodifluoromethane	51		0.989	0.989	(0.268)	137644	31.9966	32.0	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.286)	61278	27.8219	27.8	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.263)	92324	20.3413	20.3 (QR)	
4 Chloromethane	50		1.105	1.104	(0.299)	121034	25.2761	25.3 (R)	
5 Vinyl chloride	62		1.172	1.172	(0.318)	182587	35.5718	35.6	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	140556	35.6290	35.6	
7 Acetaldehyde	44		1.263	1.263	(0.342)	29223	80.0940	80.1 (Q)	
8 Bromomethane	94		1.391	1.391	(0.377)	32440	21.4433	21.4 (R)	
9 Chloroethane	64		1.458	1.458	(0.395)	115521	41.4395	41.4	
10 Dichlorofluoromethane	67		1.604	1.598	(0.435)	282971	46.1800	46.2	
11 Trichlorofluoromethane	101		1.598	1.598	(0.433)	218923	43.1814	43.2	
12 Ethanol	45		1.787	1.799	(0.485)	29137	1866.65	1870 (QRM)	
13 Diethyl ether (Ethyl ether)	59		1.800	1.799	(0.488)	142007	48.1987	48.2	
16 1,1,2-Trichlorotrifluoroethane	101		1.928	1.921	(0.523)	156608	46.5462	46.5	
14 Acrolein	56		1.934	1.934	(0.524)	23327	61.4702	61.5	
15 1,1-Dichloroethene	96		1.952	1.946	(0.529)	149329	51.3303	51.3	
17 Acetone	43		2.037	2.037	(0.552)	34930	33.2107	33.2 (R)	
18 Iodomethane	142		2.068	2.062	(0.561)	55035	33.8398	33.8 (R)	
19 2-Propanol	45		2.123	2.123	(0.575)	110777	1043.87	1040	
20 Carbon disulfide	76		2.086	2.086	(0.565)	445960	44.6607	44.7	
21 Allyl chloride	76		2.214	2.214	(0.600)	89851	44.2438	44.2	
22 Acetonitrile	41		2.281	2.275	(0.618)	78714	204.843	205	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)		
23 Methyl acetate	43	2.238	2.232 (0.607)		193283	40.7809	40.8		
24 Methylene Chloride	84	2.318	2.318 (0.628)		212894	61.4204	61.4		
25 tert-Butyl Alcohol	59	2.397	2.397 (0.650)		40159	232.271	232 (Q)		
28 Methyl-tert-butyl ether	73	2.458	2.458 (0.666)		399989	42.8589	42.8		
27 trans-1,2-Dichloroethene	96	2.470	2.470 (0.670)		157099	47.2978	47.3		
26 Acrylonitrile	53	2.543	2.543 (0.689)		47586	44.9136	44.9		
30 n-Hexane	57	2.604	2.604 (0.706)		255018	43.6605	43.7		
29 Diisopropyl ether	45	2.793	2.793 (0.757)		555736	46.4317	46.4		
32 Vinyl acetate	43	2.836	2.836 (0.769)		299555	42.0489	42.0		
31 1,1-Dichloroethane	63	2.805	2.805 (0.760)		284802	44.6355	44.6		
33 Chloroprene	53	2.842	2.842 (0.770)		240672	50.7385	50.7		
34 Ethyl-tert-butyl ether	59	3.068	3.068 (0.831)		426450	40.2553	40.2		
36 2,2-Dichloropropane	77	3.226	3.226 (0.874)		170816	41.5745	41.6		
35 cis-1,2-Dichloroethene	96	3.250	3.250 (0.881)		181652	48.9530	49.0		
39 Ethyl acetate	61	3.250	3.250 (0.881)		256410	44.7421	44.7 (Q)		
37 2-Butanone (MEK)	43	3.293	3.293 (0.893)		96284	41.0831	41.1		
41 Bromochloromethane	128	3.452	3.446 (0.936)		76048	47.3109	47.3		
42 Tetrahydrofuran	42	3.458	3.458 (0.937)		39693	38.5421	38.5		
43 Chloroform	83	3.500	3.500 (0.949)		268876	46.5927	46.6		
38 Propionitrile	54	3.403	3.397 (0.922)		18954	46.4064	46.4		
46 Cyclohexane	56	3.592	3.592 (0.974)		326031	42.3830	42.4		
45 1,1,1-Trichloroethane	97	3.616	3.616 (0.839)		213794	44.1517	44.2		
* 44 Pentafluorobenzene (IS)	168	3.689	3.683 (1.000)		397583	50.0000			
48 Carbon tetrachloride	117	3.714	3.714 (0.861)		192167	45.1589	45.2		
47 1,1-Dichloropropene	75	3.750	3.750 (0.870)		234344	44.0805	44.1		
55 2,2,4-Trimethylpentane	57	3.909	3.903 (1.059)		417311	41.3058	41.3		
51 Benzene	78	3.927	3.921 (0.911)		715801	49.9993	50.0		
40 Methacrylonitrile	67	3.488	3.488 (0.945)		62518	48.1289	48.1		
§ 50 1,2-Dichloroethane-d4 (S)	65	3.945	3.945 (0.915)		231497	48.6729	48.7		
56 tert-Amylmethyl ether	73	4.000	4.000 (1.084)		378302	41.9148	41.9		
52 1,2-Dichloroethane	62	4.019	4.012 (1.089)		184053	43.9715	44.0		
57 n-Heptane	43	4.080	4.080 (1.106)		221994	38.3872	38.4		
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311 (1.000)		715799	50.0000			
59 Trichloroethene	95	4.506	4.506 (1.045)		170370	45.8905	45.9		
60 Methylcyclohexane	83	4.610	4.610 (1.069)		334704	45.6088	45.6		
49 Isobutanol	43	3.909	3.909 (1.059)		85132	187.285	187		
53 tert-Amyl Alcohol	59	Compound Not Detected.							(Q)
54 tert-Amyl ethyl ether	59	4.714	4.714 (1.278)		299705	37.8177	37.8		
61 1,2-Dichloropropane	63	4.775	4.768 (1.107)		183393	46.4293	46.4		
63 Methyl methacrylate	69	4.878	4.872 (1.131)		99941	44.2921	44.3		
64 1,4-Dioxane (p-Dioxane)	88	4.903	4.903 (1.137)		23409	1025.43	1020 (Q)		
62 Dibromomethane	93	4.890	4.884 (1.134)		94706	47.4643	47.5		
65 Bromodichloromethane	83	5.037	5.037 (1.168)		204234	45.7748	45.8		
66 2-Nitropropane	43	5.372	5.366 (1.246)		59371	33.6929	33.7 (R)		
67 2-Chloroethylvinyl ether	63	Compound Not Detected.							(D)
68 cis-1,3-Dichloropropene	75	5.506	5.506 (1.277)		248906	46.2779	46.3		
69 4-Methyl-2-pentanone (MIBK)	43	5.683	5.683 (1.318)		132301	43.9062	43.9		
§ 70 Toluene-d8 (S)	98	5.726	5.726 (0.770)		898021	50.5622	50.6		
71 Toluene	91	5.799	5.799 (1.345)		802118	49.9476	49.9		
72 Methyl isothiocyanate	73	6.030	6.030 (1.399)		197959	98.3100	98.3		
74 trans-1,3-Dichloropropene	75	6.152	6.146 (1.427)		199795	43.9466	43.9		
75 Ethyl methacrylate	69	6.201	6.201 (1.438)		194276	46.7287	46.7		
76 1,1,2-Trichloroethane	83	6.347	6.341 (1.472)		127298	46.5650	46.6		
77 Tetrachloroethene	166	6.366	6.360 (0.856)		156782	42.9878	43.0		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76	6.536	6.536	(0.879)	261261	47.3071	47.3	
79 2-Hexanone	43	6.628	6.628	(0.892)	82078	36.0409	36.0	
73 n-Octane	43	5.860	5.860	(1.359)	184590	34.7242	34.7 (Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	58977	64.3542	64.4	
80 Dibromochloromethane	129	6.750	6.750	(0.908)	120846	40.9194	40.9	
82 1,2-Dibromoethane (EDB)	107	6.884	6.878	(1.597)	130540	46.0051	46.0	
* 83 Chlorobenzene-d5 (IS)	82	7.433	7.426	(1.000)	366591	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	452336	45.8138	45.8	
86 Ethylbenzene	106	7.597	7.603	(1.022)	257368	44.8563	44.8	
85 1,1,1,2-Tetrachloroethane	131	7.609	7.609	(1.024)	133737	43.7503	43.8	
88 n-Nonane	43	7.768	7.762	(1.045)	136374	35.2696	35.3 (Q)	
87 m&p-Xylene	106	7.780	7.780	(1.047)	667578	96.7714	96.8	
89 o-Xylene	106	8.365	8.365	(1.125)	337617	51.3129	51.3	
90 Styrene	104	8.408	8.408	(1.131)	510487	47.3425	47.3	
91 Bromoform	173	8.646	8.646	(1.163)	69765	42.4810	42.5	
92 Isopropylbenzene (Cumene)	105	8.816	8.816	(0.876)	779805	46.4421	46.4	
§ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	329008	50.4689	50.5	
94 Bromobenzene	156	9.146	9.146	(0.909)	171459	46.1882	46.2	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	176692	49.5646	49.6	
98 n-Propylbenzene	91	9.255	9.249	(0.919)	1005437	47.4143	47.4	
96 1,2,3-Trichloropropane	110	9.274	9.274	(0.921)	46719	46.4002	46.4 (Q)	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.925)	36464	50.1047	50.1	
103 n-Decane	43	9.420	9.420	(1.267)	138740	46.2327	46.2 (Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.928)	579336	46.5355	46.5	
100 4-Ethyltoluene	105	9.371	9.371	(0.931)	866593	49.3336	49.3	
101 1,3,5-Trimethylbenzene	105	9.444	9.444	(0.938)	707978	51.7596	51.8	
102 4-Chlorotoluene	91	9.457	9.457	(0.939)	654434	47.5644	47.6	
104 tert-Butylbenzene	119	9.713	9.713	(0.965)	542626	47.1526	47.2	
105 Pentachloroethane	167	9.755	9.749	(0.969)	93764	47.8291	47.8	
106 1,2,4-Trimethylbenzene	105	9.767	9.767	(0.970)	733421	53.3311	53.3	
107 sec-Butylbenzene	105	9.902	9.902	(0.984)	847737	47.5489	47.5	
109 d-Limonene	136	9.975	9.969	(1.342)	29359	48.1429	48.1	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	709088	49.2805	49.3	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.994)	323978	46.0434	46.0	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.066	10.072	(1.000)	307483	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	335144	46.2889	46.3	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.005)	689370	48.9733	49.0	
114 Benzyl chloride	91	10.225	10.225	(1.016)	162024	34.9339	34.9	
115 trans-Decalin	138	10.292	10.292	(1.022)	93760	40.1683	40.2	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	389265	47.8327	47.8	
117 n-Butylbenzene	91	10.377	10.377	(1.031)	790953	48.2582	48.2	
119 n-Undecane	43	10.450	10.450	(1.038)	152843	98.2842	98.3 (Q)	
118 1,2-Dichlorobenzene	146	10.402	10.401	(1.033)	301052	46.5001	46.5	
120 cis-Decalin	138	10.816	10.816	(1.074)	70792	40.2297	40.2	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.104)	553436	48.8932	48.9	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	22882	45.3953	45.4	
123 n-Dodecane	43	11.584	11.584	(1.151)	142118	216.987	217 (AQ)	
124 1,2,4-Trichlorobenzene	180	12.194	12.188	(1.211)	149842	46.6299	46.6	
125 Hexachloro-1,3-butadiene	225	12.383	12.383	(1.230)	58359	38.5628	38.6	
126 Naphthalene	128	12.560	12.560	(1.248)	349350	48.4078	48.4	
127 1,2,3-Trichlorobenzene	180	12.956	12.956	(1.287)	106112	42.9910	43.0	

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D  
Report Date: 26-Oct-2021 10:35

#### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- D - User disabled compound identification.

#### Review Codes Legend

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Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D  
Report Date: 26-Oct-2021 10:35

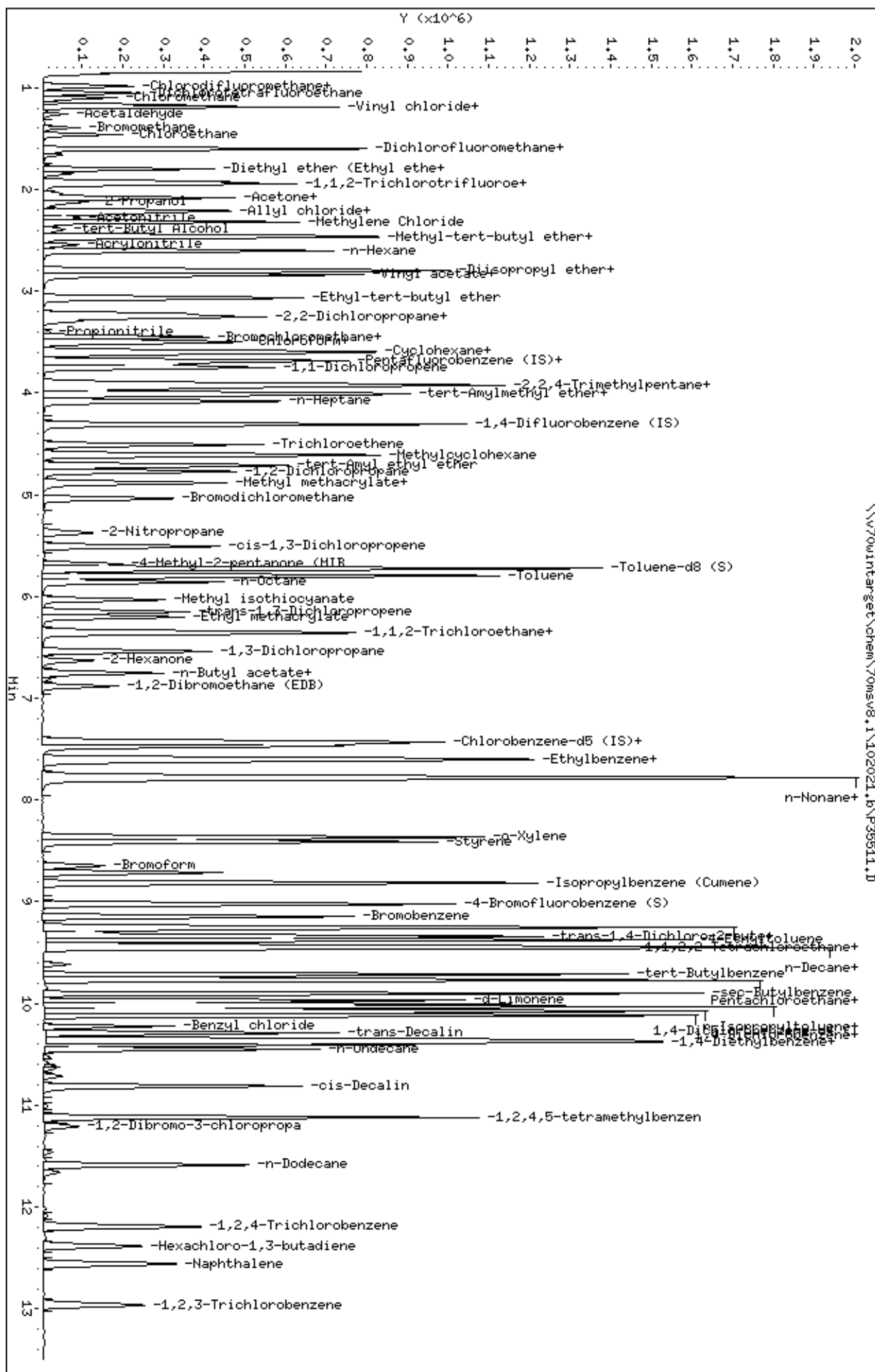
Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35511.D  
Lab Smp Id: 1160403 Client Smp ID: MW-5A/AR MS/MSDMS  
Inj Date : 20-OCT-2021 15:09 MS Autotune Date: 14-MAY-2021 14:0  
Operator : KGG Inst ID: 70msv8.i  
Smp Info : 1160403, 120466:1.25  
Misc Info : 12755,  
Comment :  
Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
Als bottle: 24 QC Sample: MS  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 8260.sub  
Target Version: RC10A  
Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

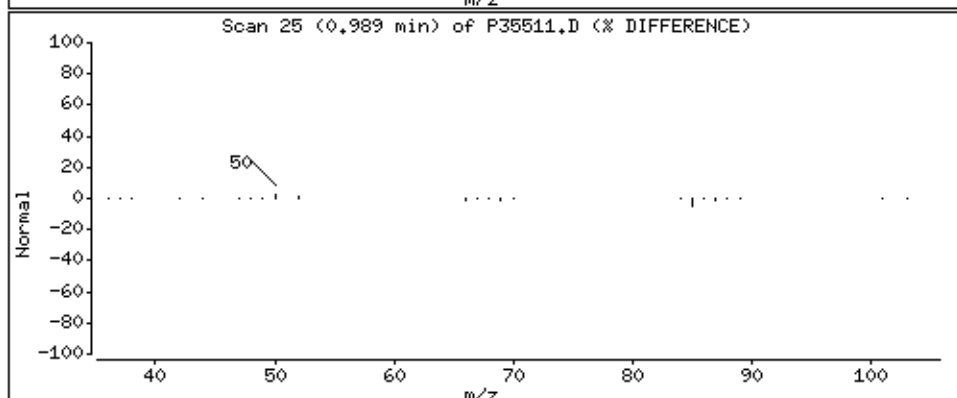
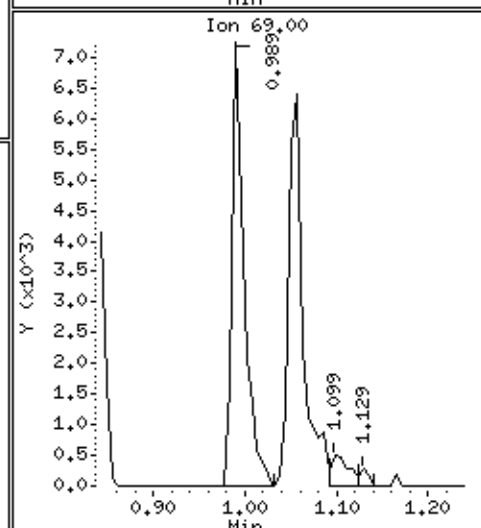
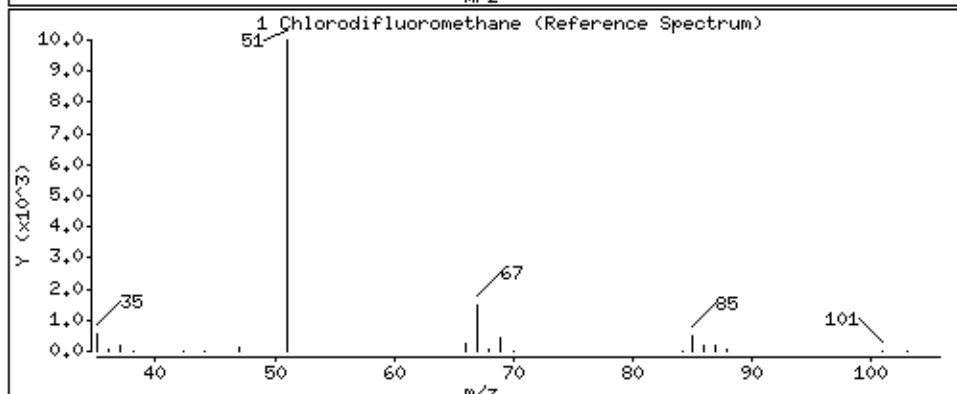
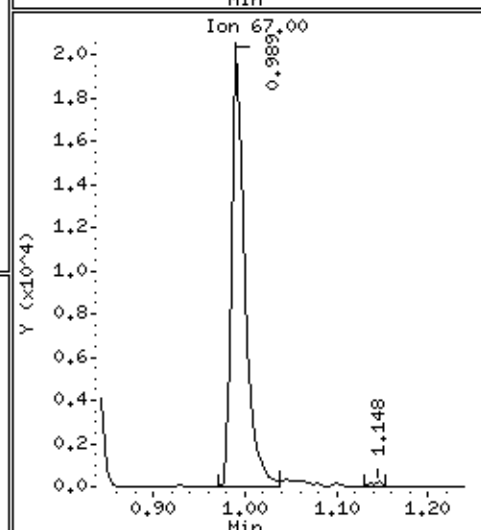
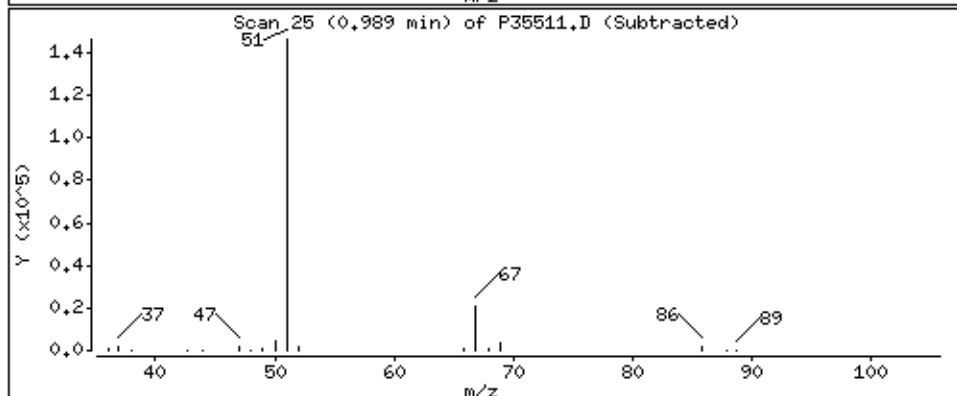
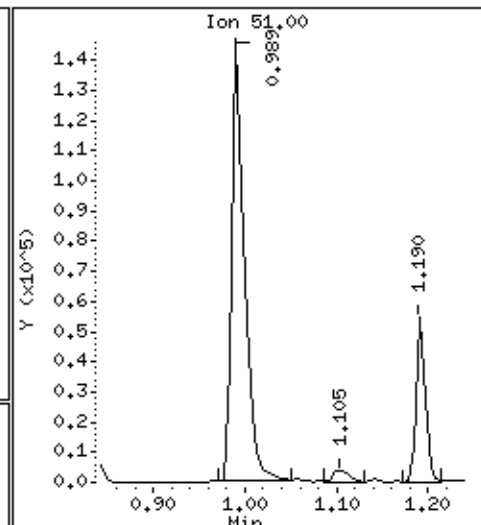
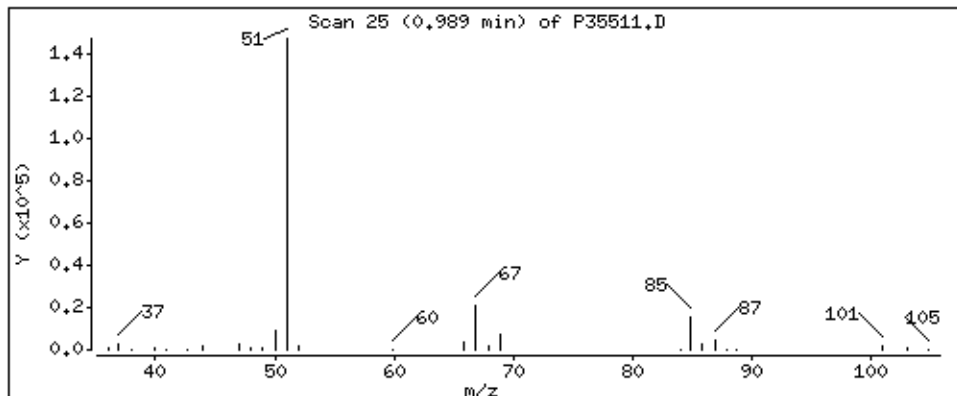
Column phase: RTX-624

Column diameter: 0,18

1 Chlorodifluoromethane

Concentration: 32.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

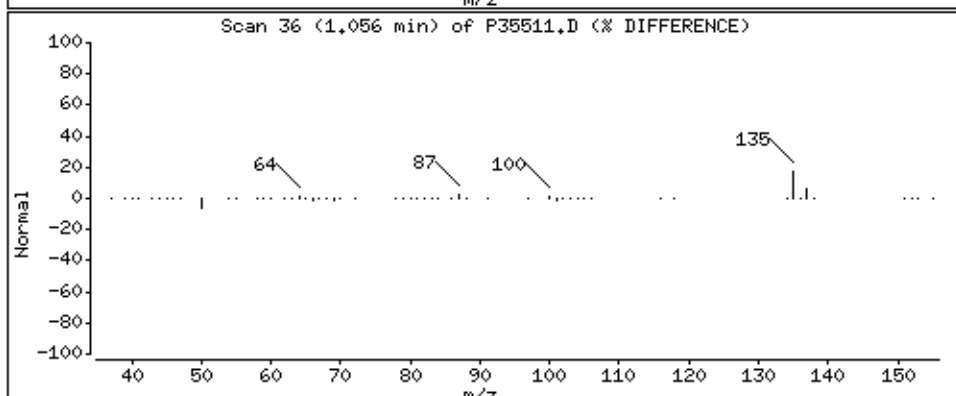
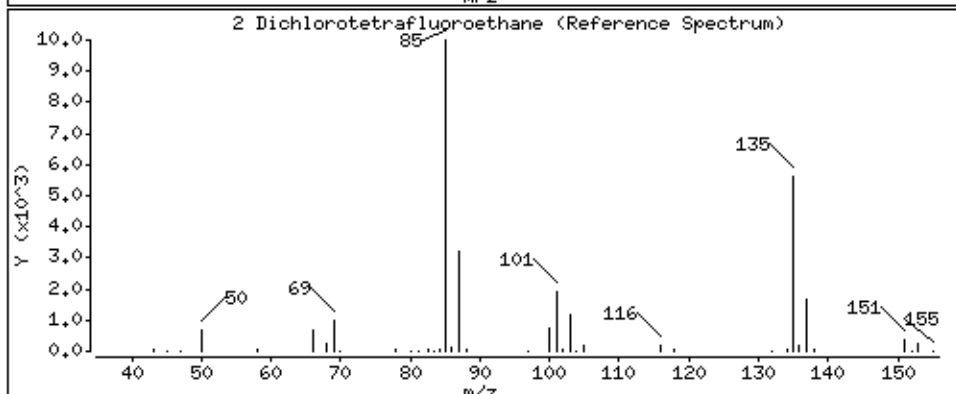
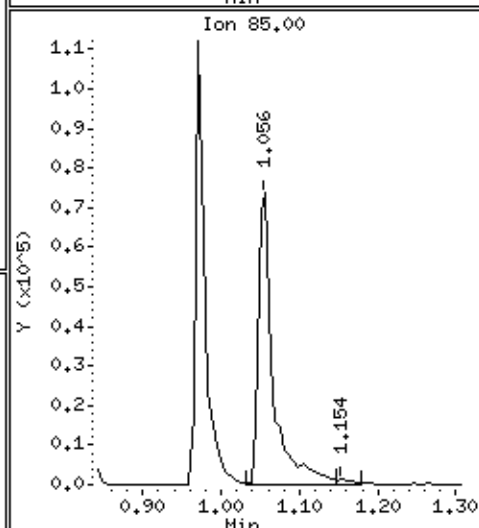
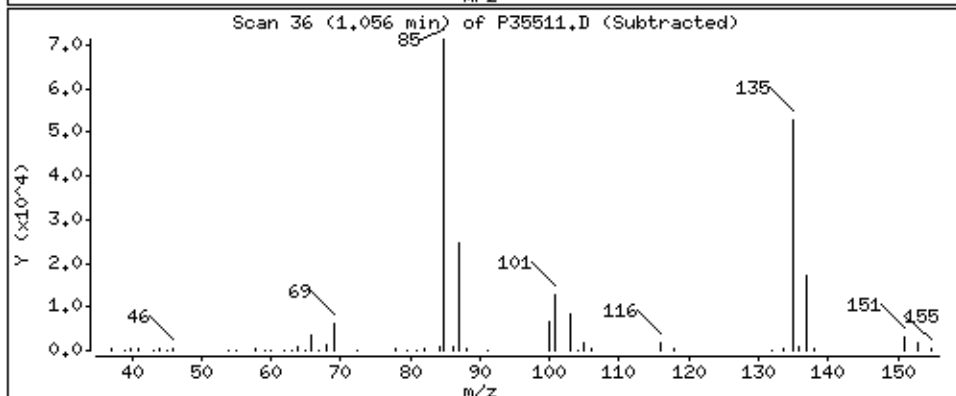
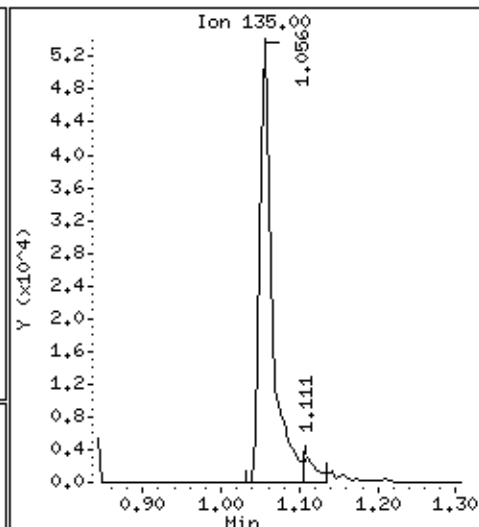
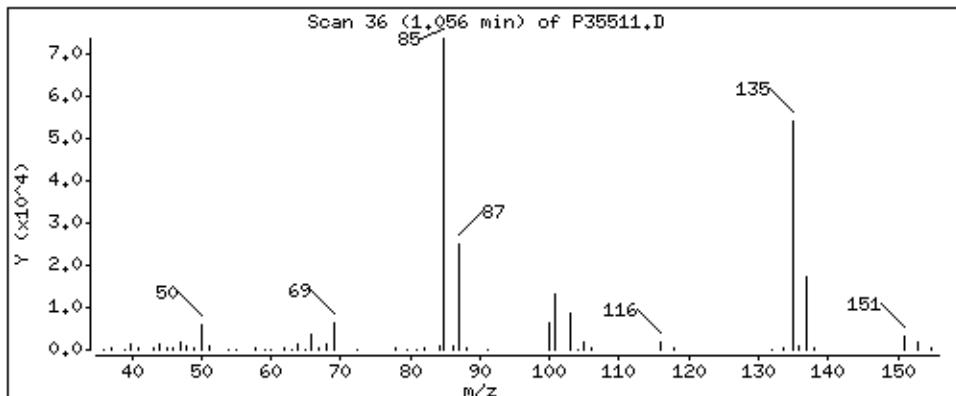
Column phase: RTX-624

Column diameter: 0,18

2 Dichlorotetrafluoroethane

Concentration: 27,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

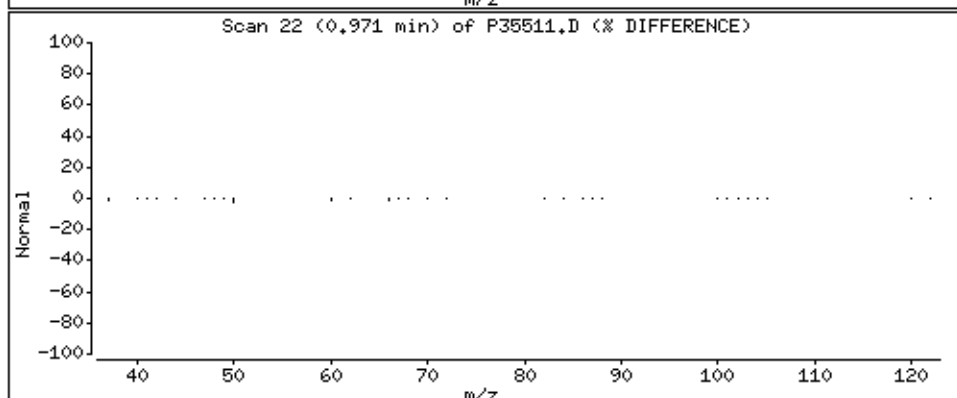
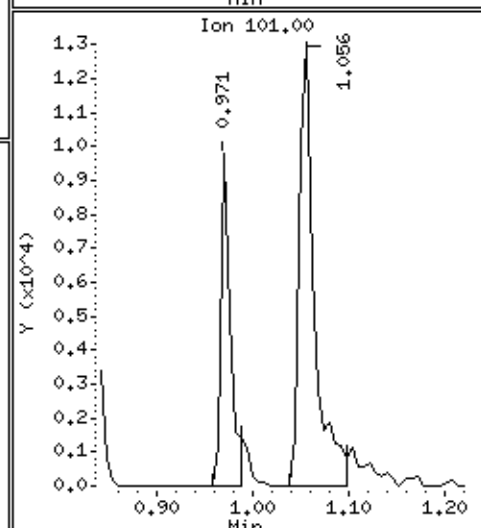
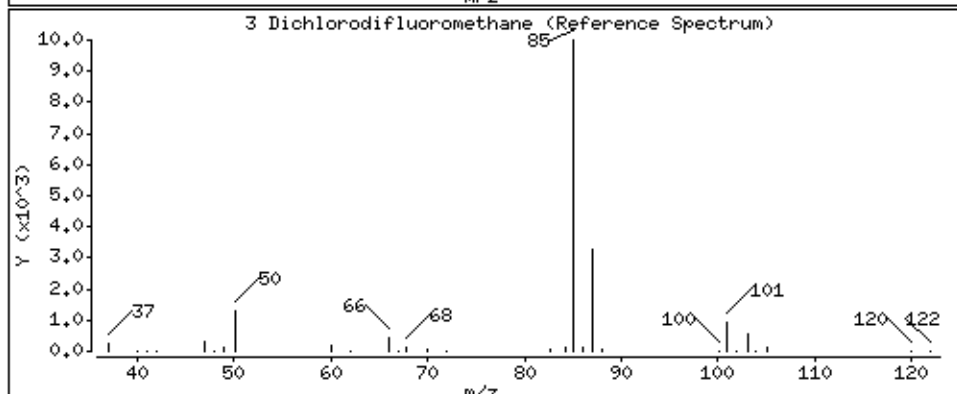
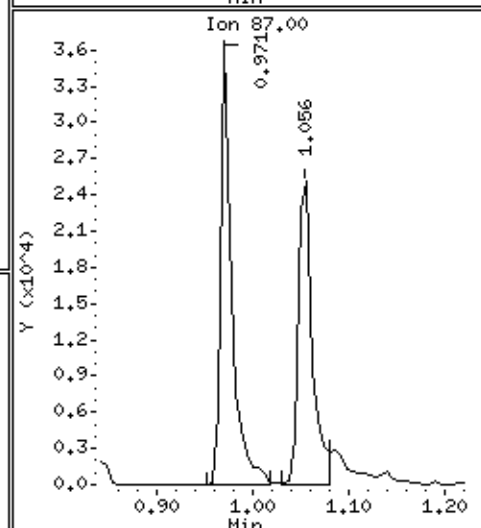
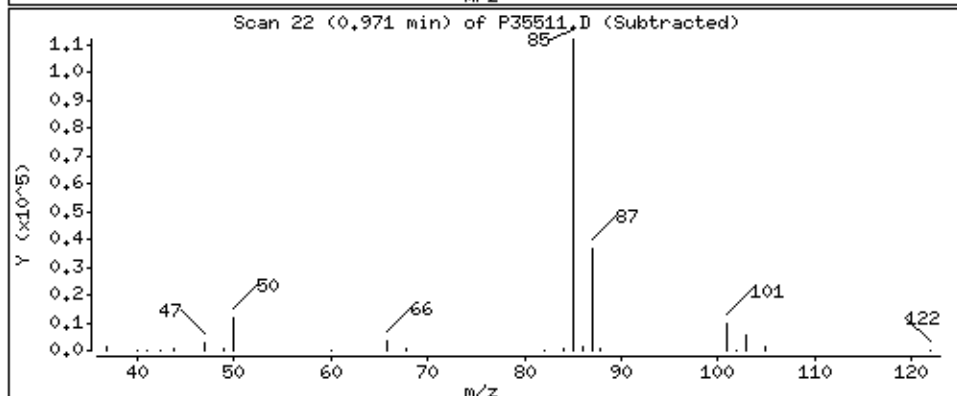
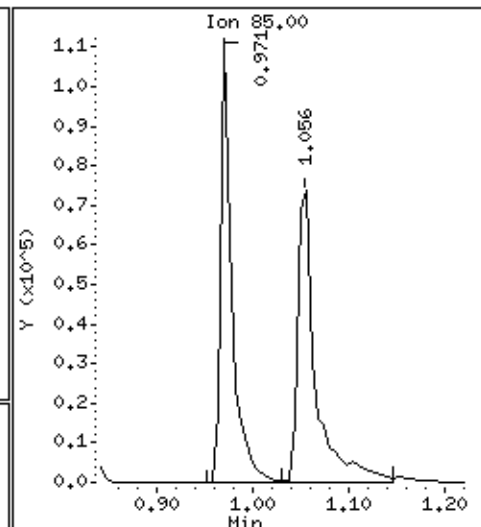
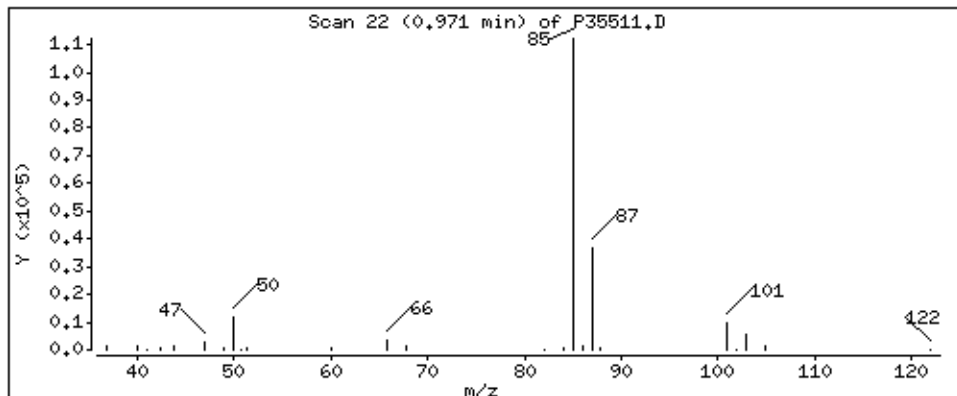
Column phase: RTX-624

Column diameter: 0,18

3 Dichlorodifluoromethane

Concentration: 20,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

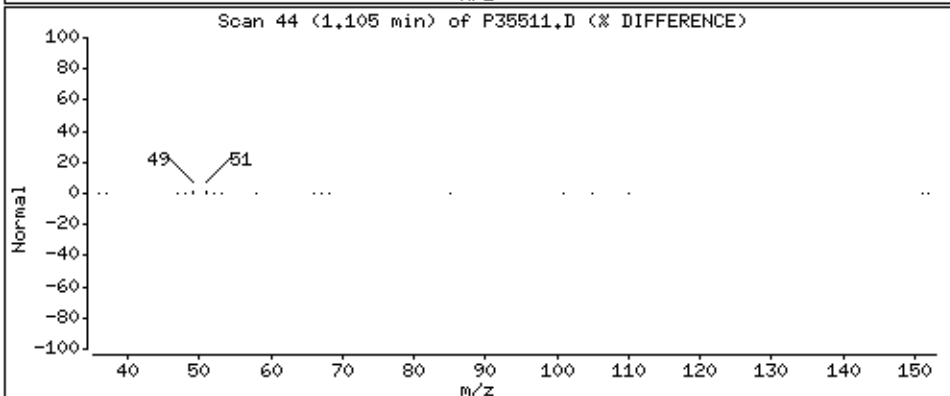
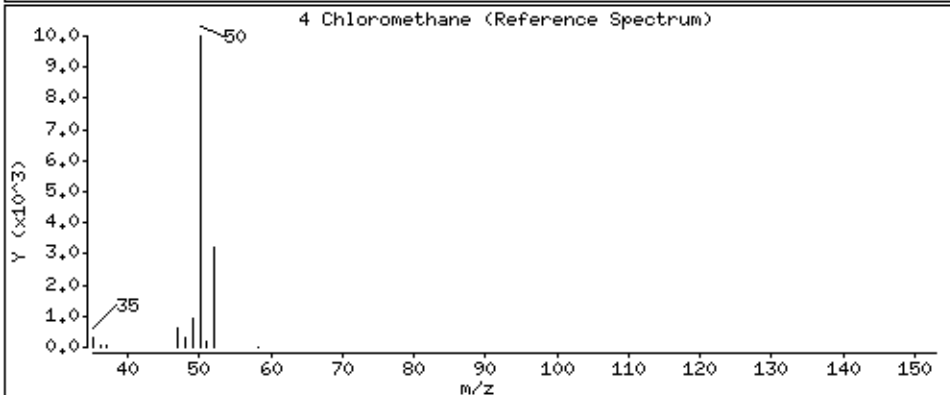
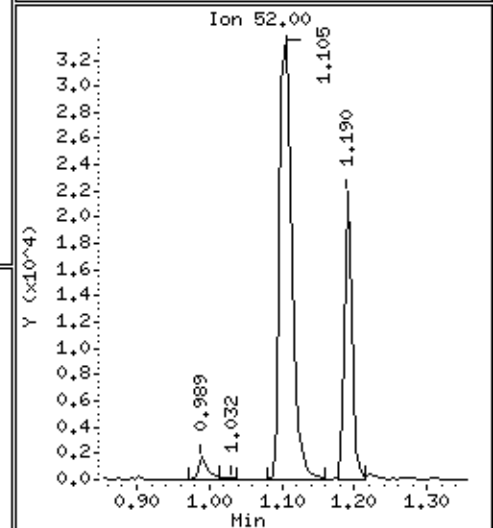
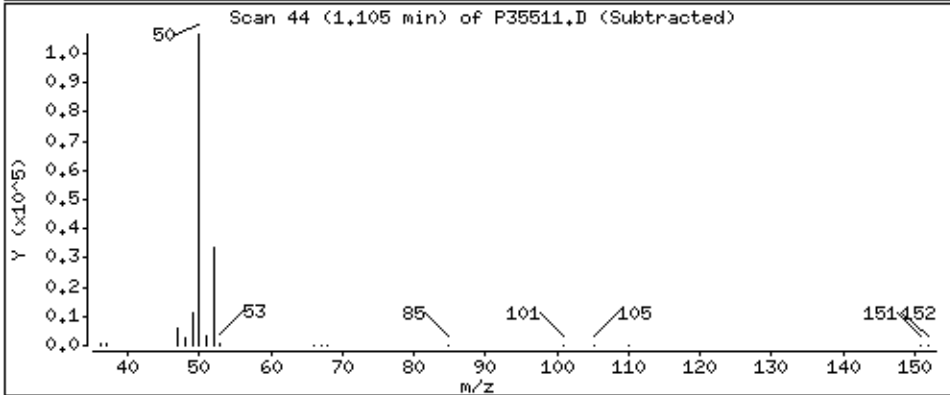
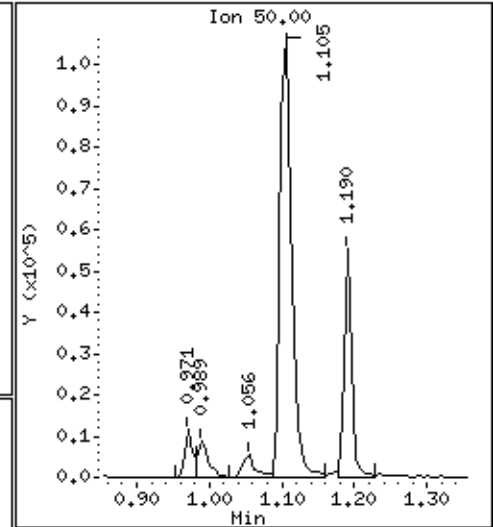
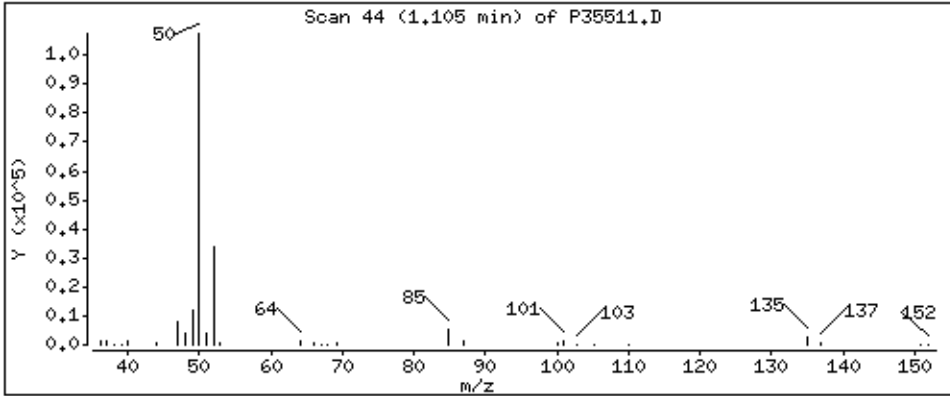
Column phase: RTX-624

Column diameter: 0,18

4 Chloromethane

Concentration: 25,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

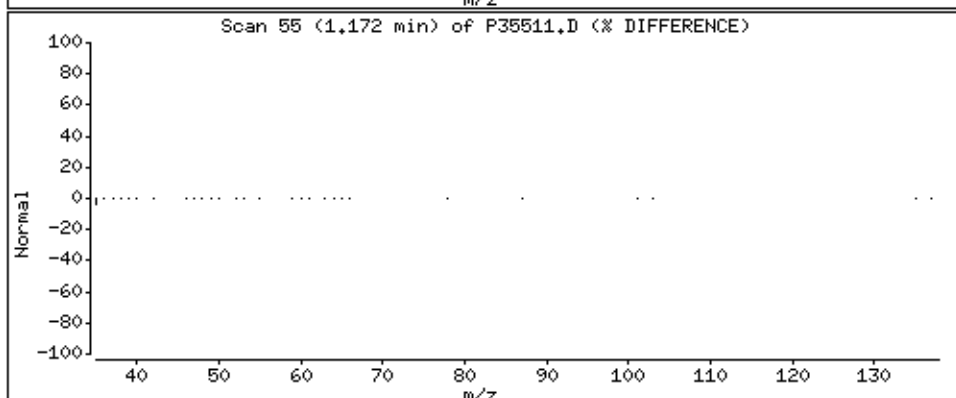
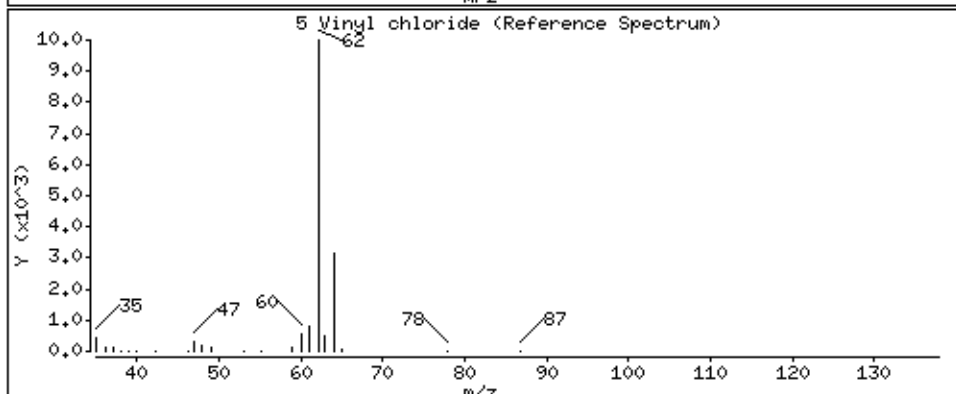
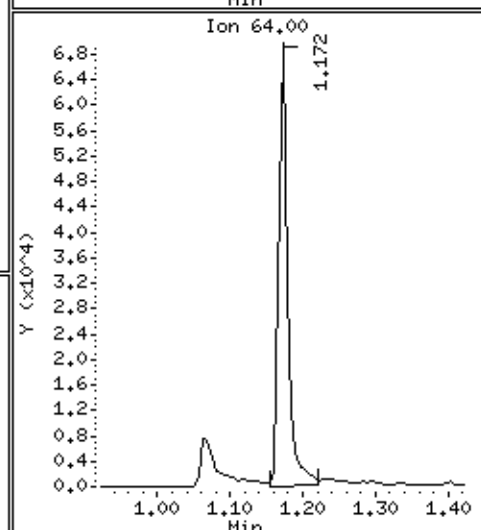
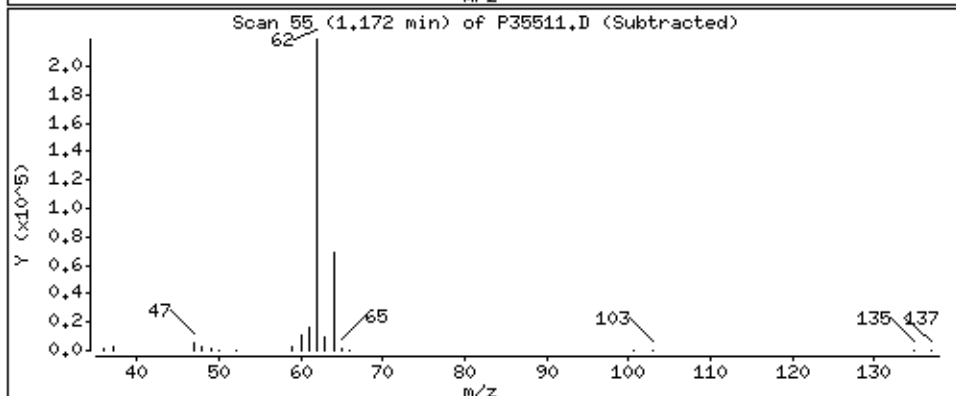
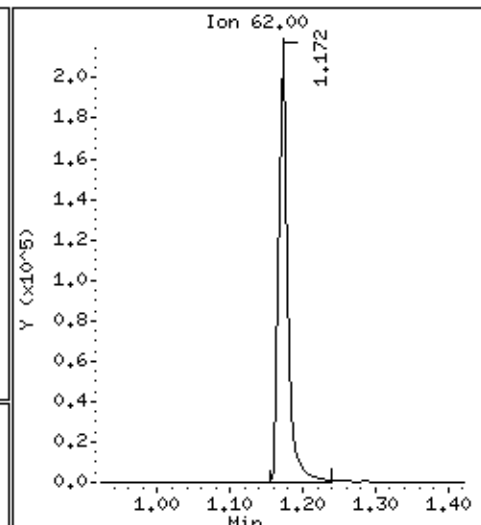
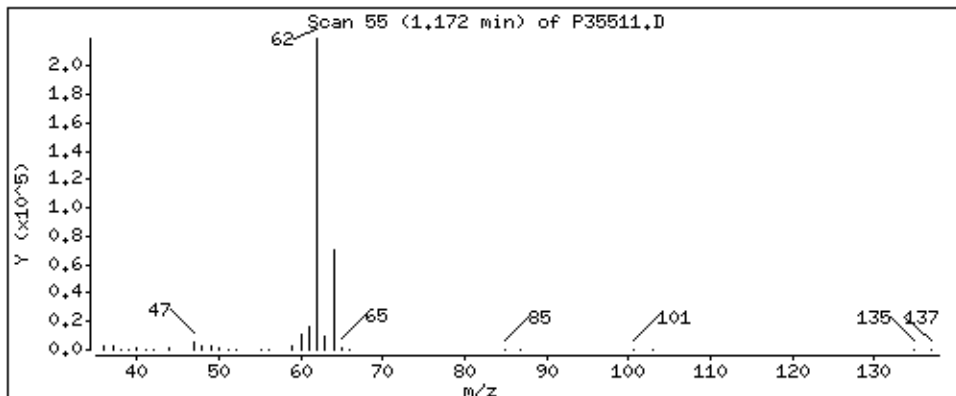
Column phase: RTX-624

Column diameter: 0,18

5 Vinyl chloride

Concentration: 35,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

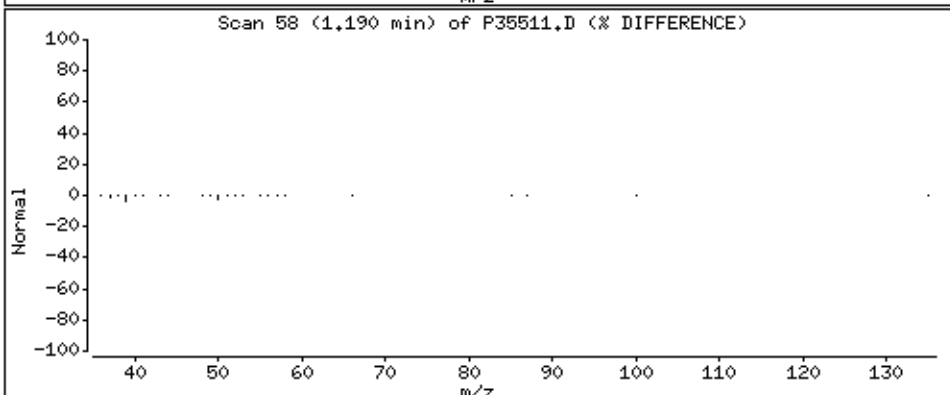
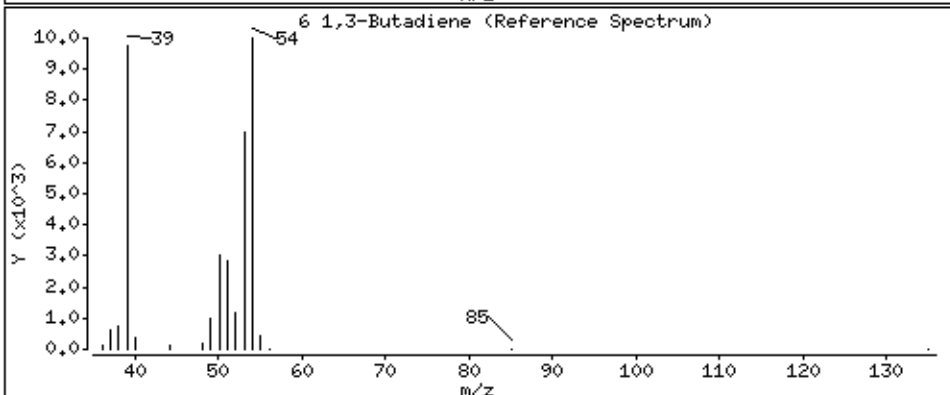
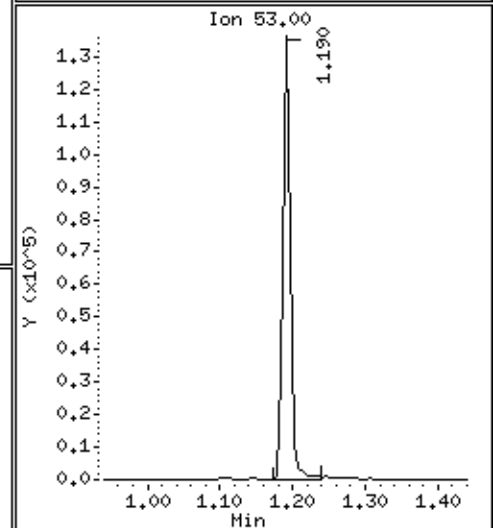
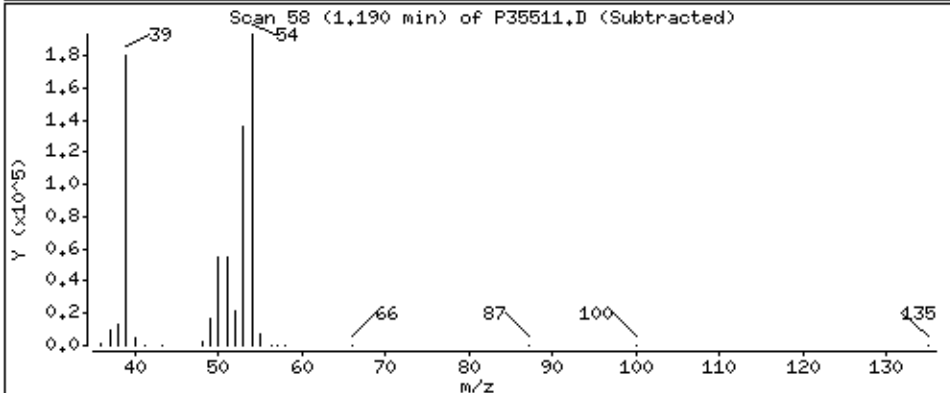
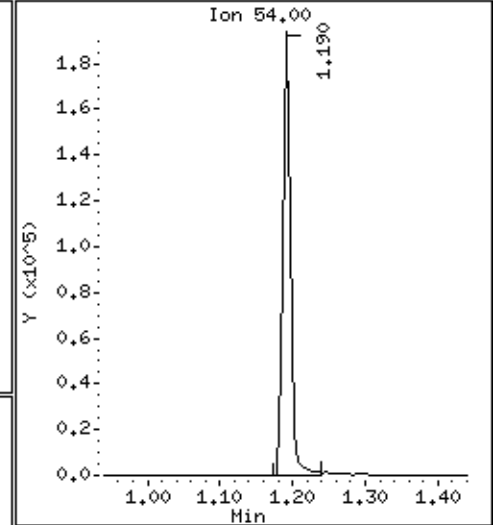
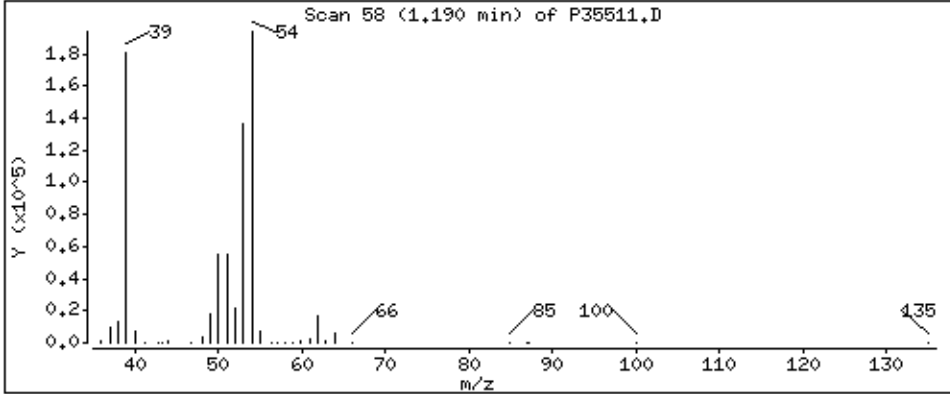
Column phase: RTX-624

Column diameter: 0,18

6 1,3-Butadiene

Concentration: 35,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

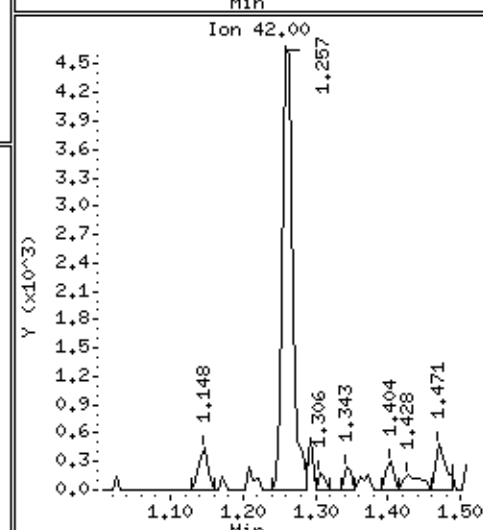
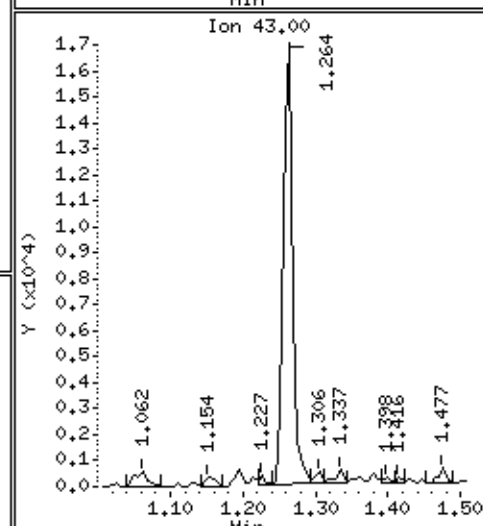
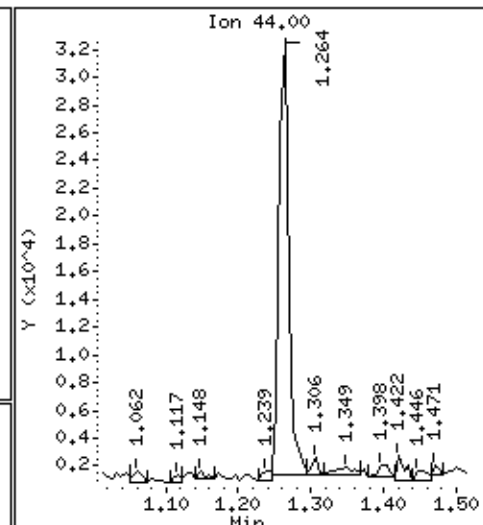
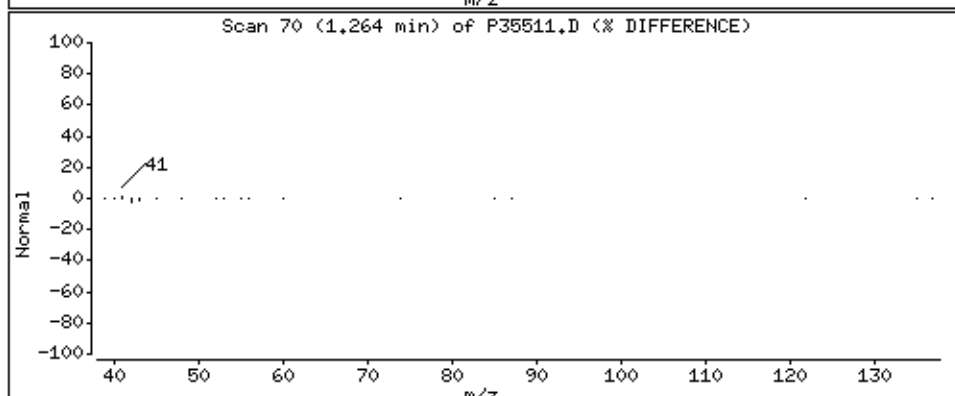
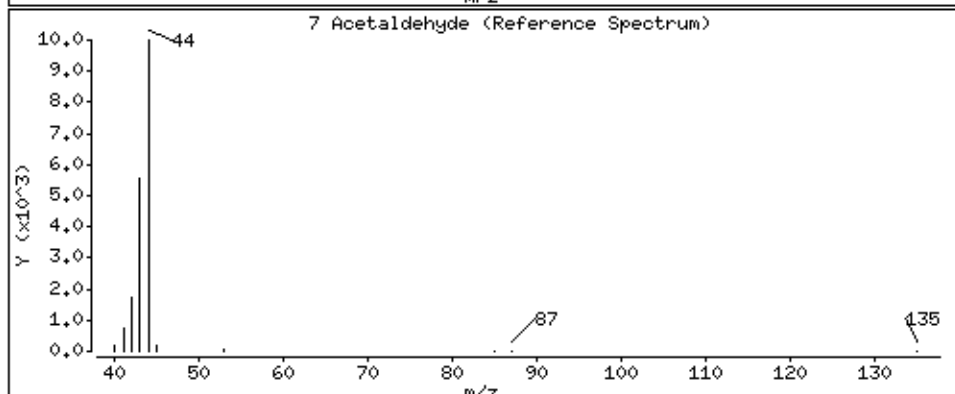
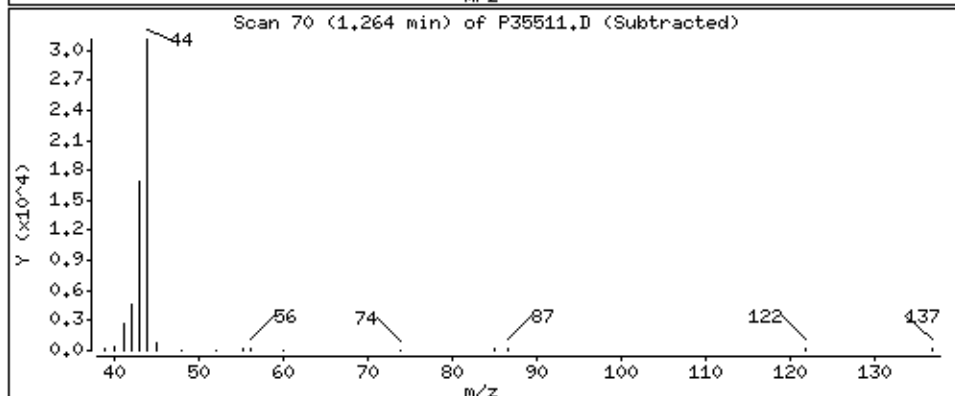
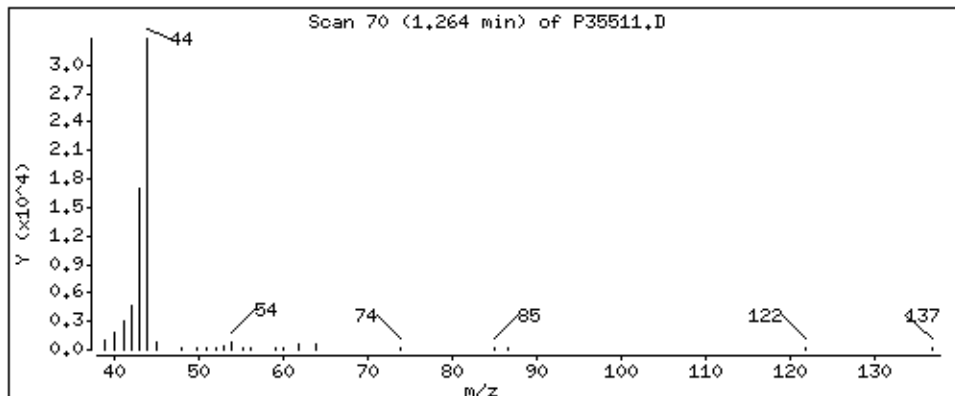
Column phase: RTX-624

Column diameter: 0.18

7 Acetaldehyde

Concentration: 80.1 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

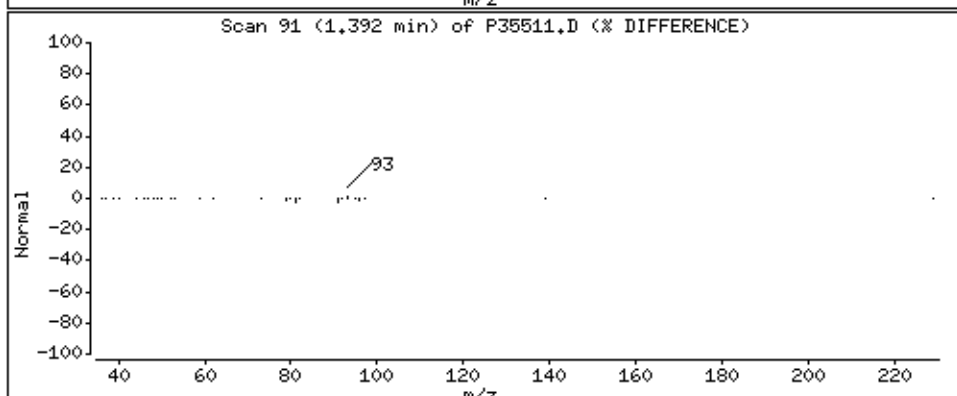
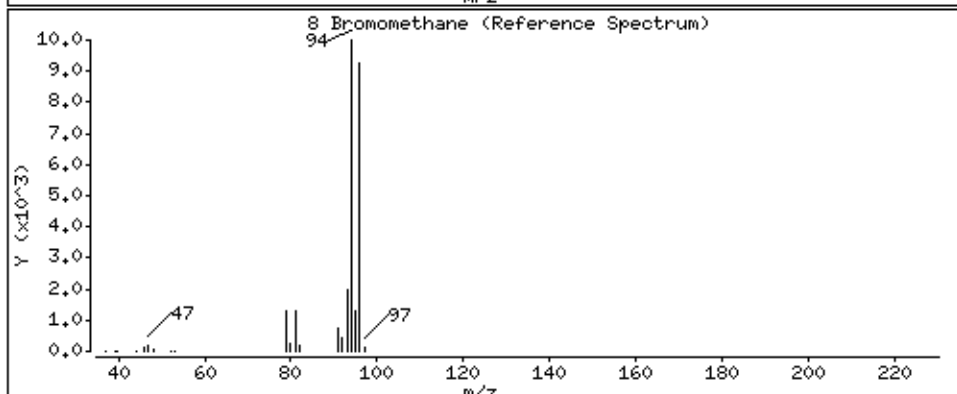
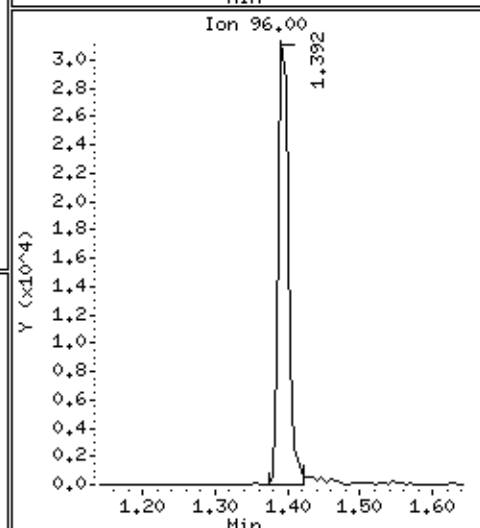
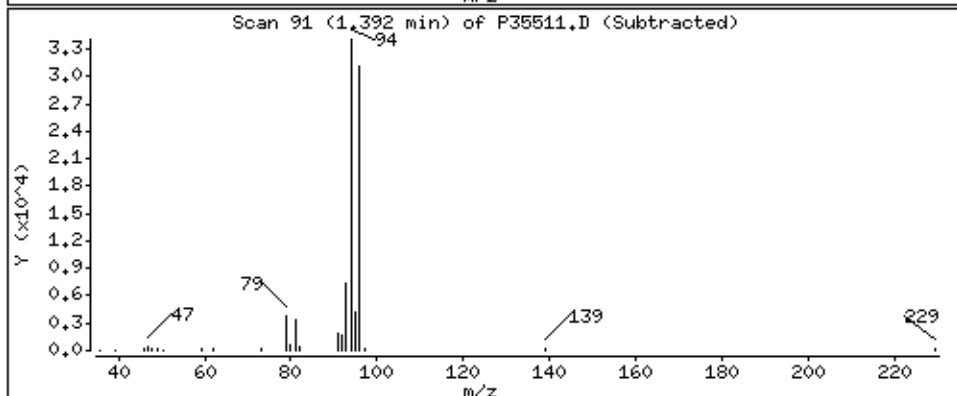
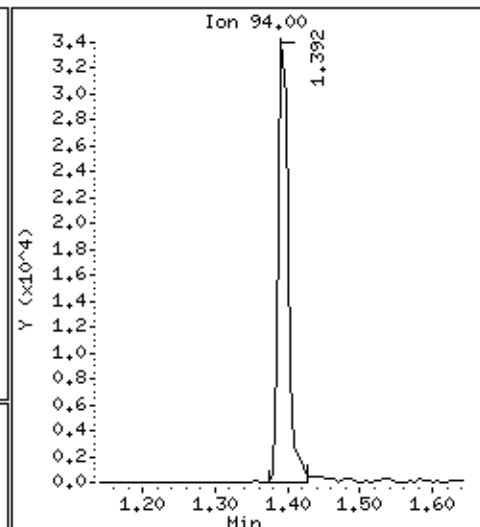
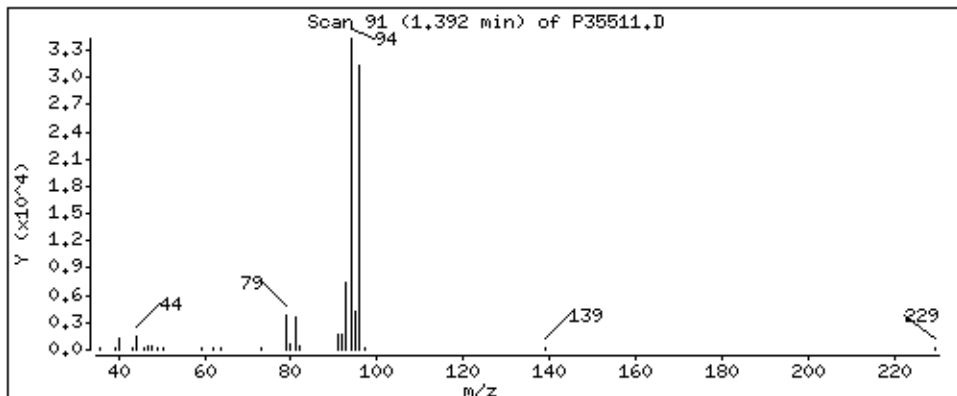
Column phase: RTX-624

Column diameter: 0.18

8 Bromomethane

Concentration: 21.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

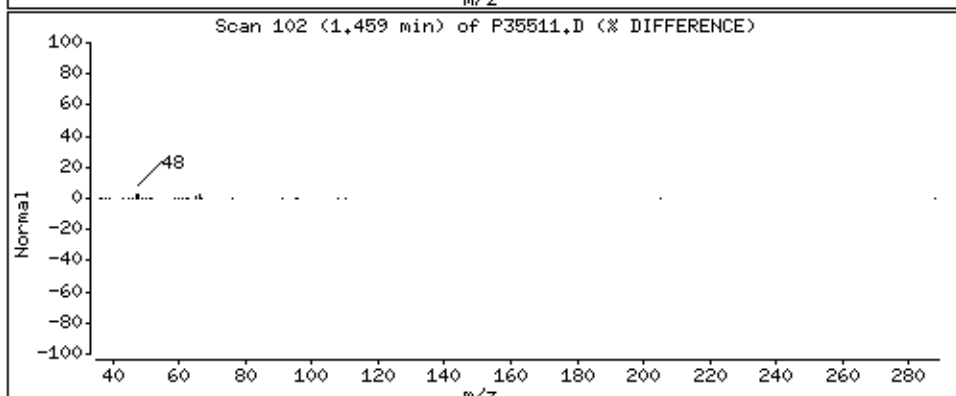
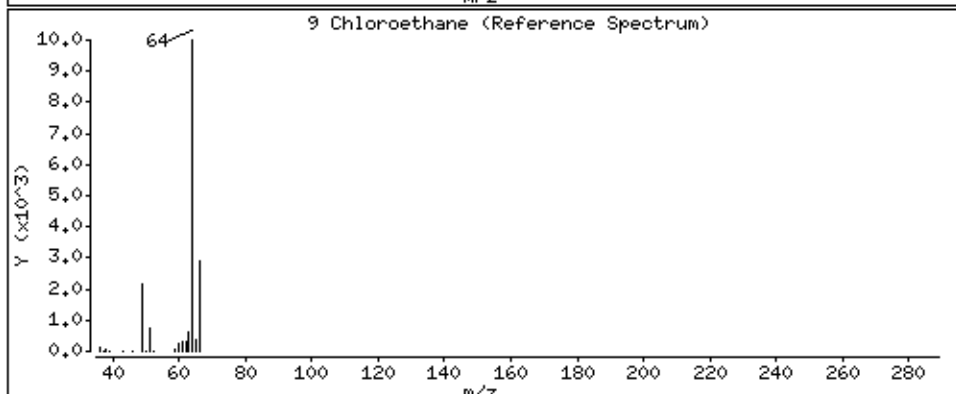
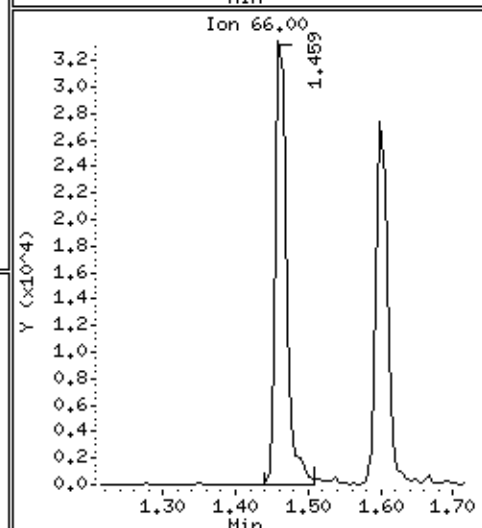
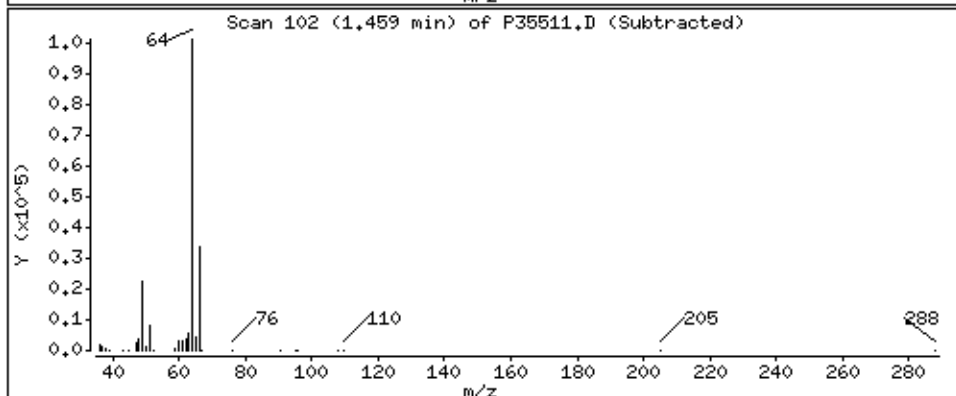
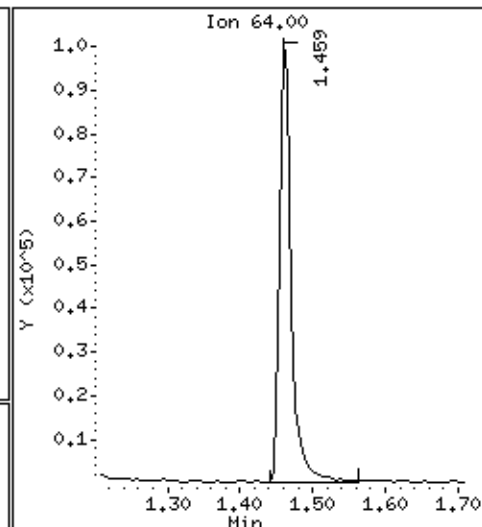
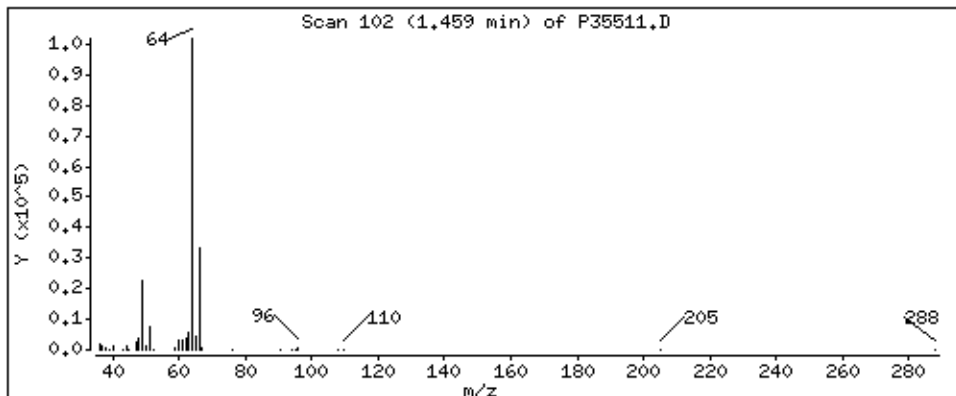
Column phase: RTX-624

Column diameter: 0.18

9 Chloroethane

Concentration: 41.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

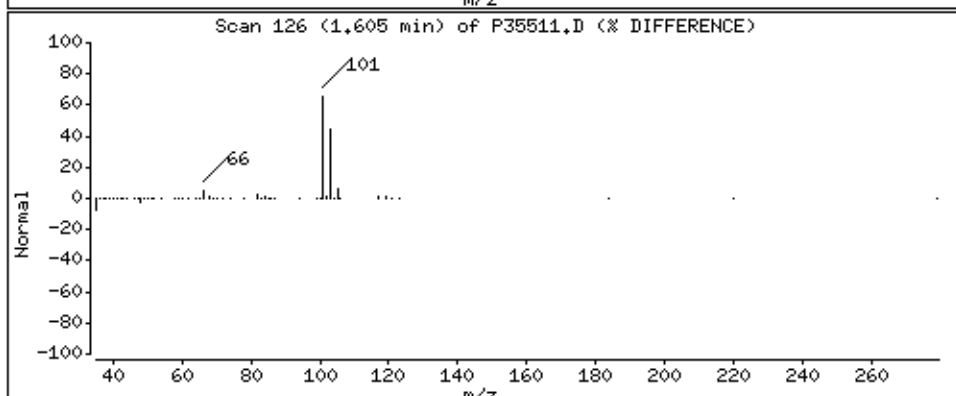
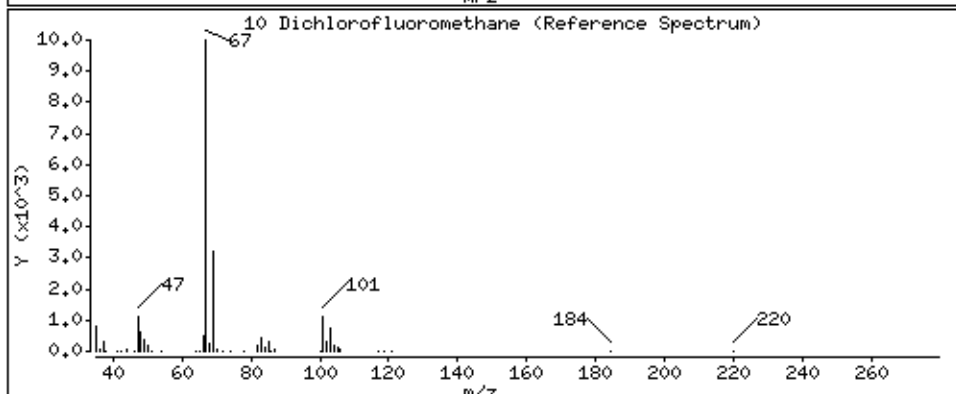
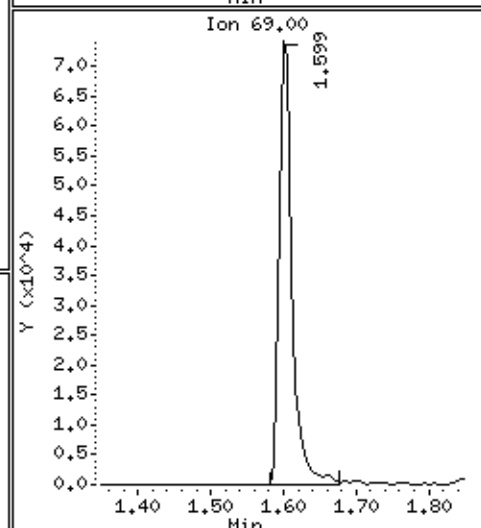
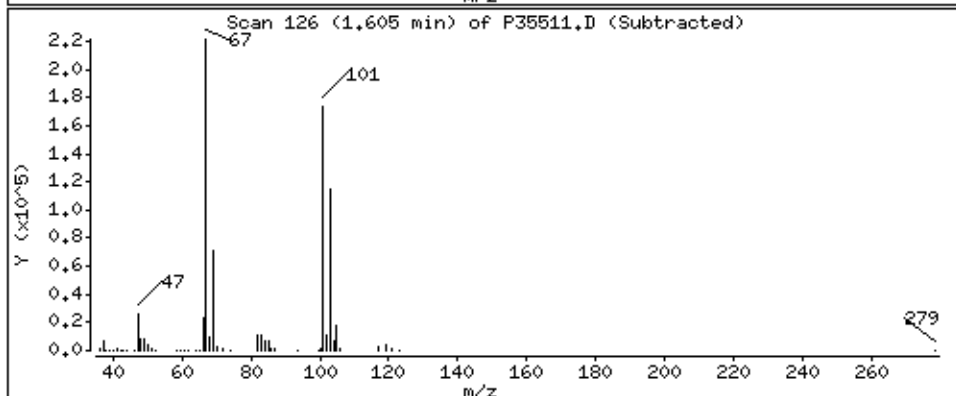
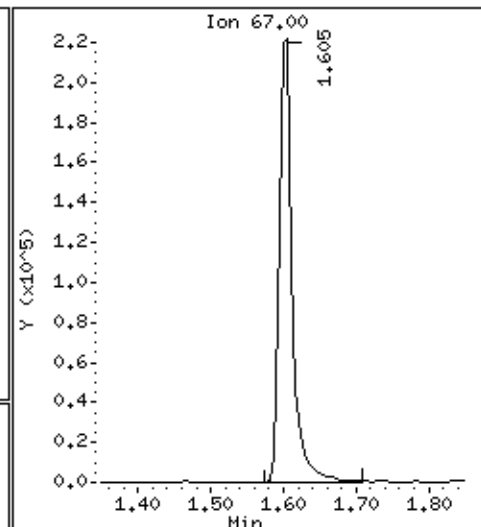
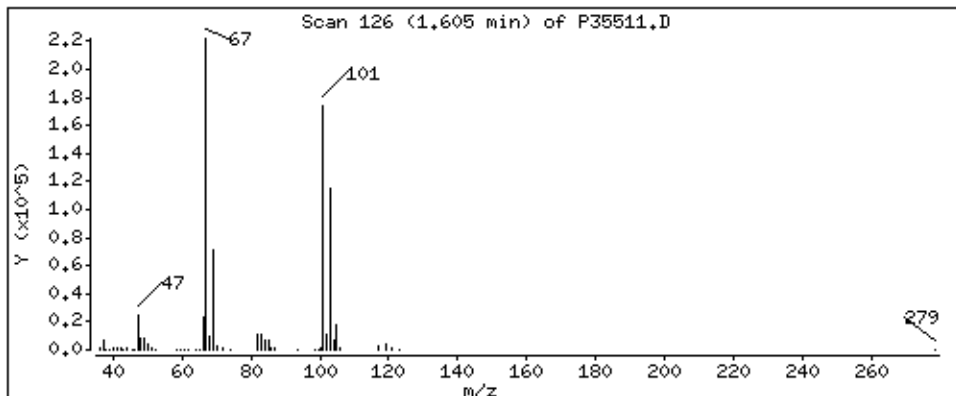
Column phase: RTX-624

Column diameter: 0,18

10 Dichlorofluoromethane

Concentration: 46,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

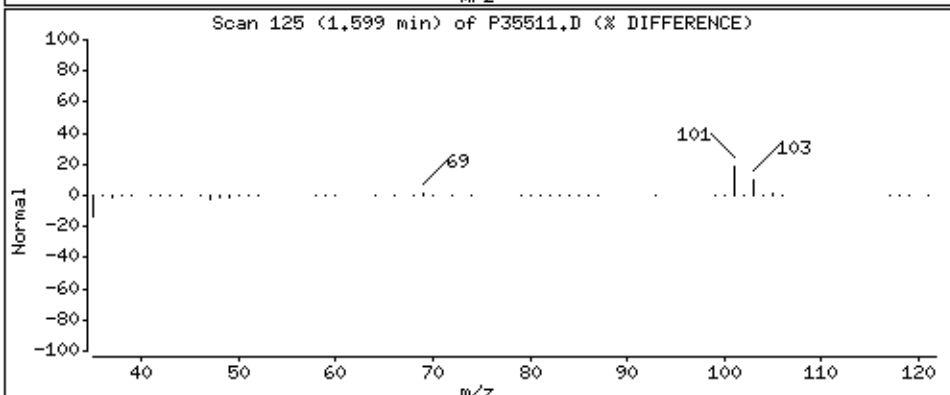
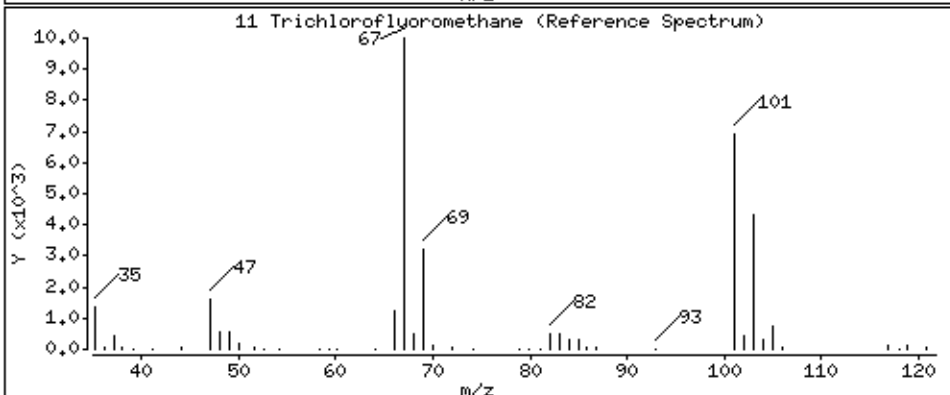
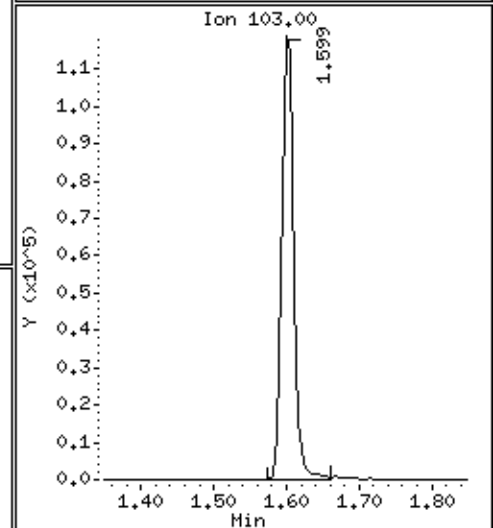
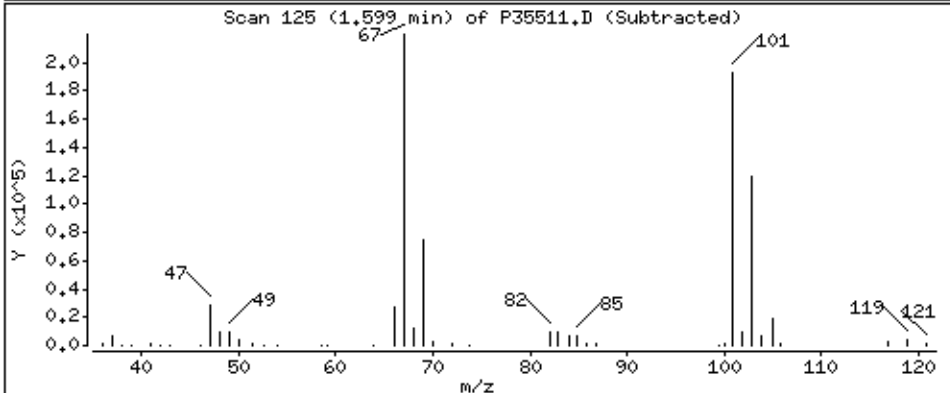
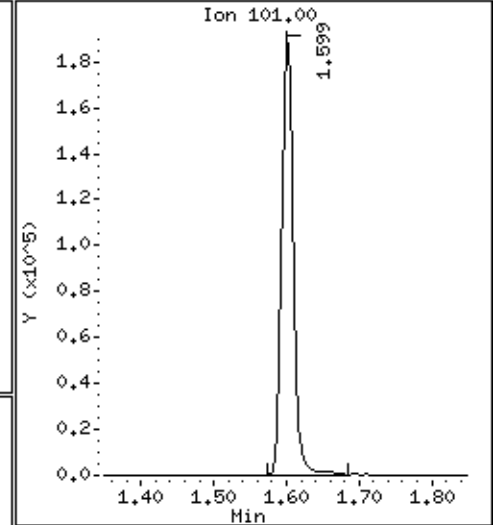
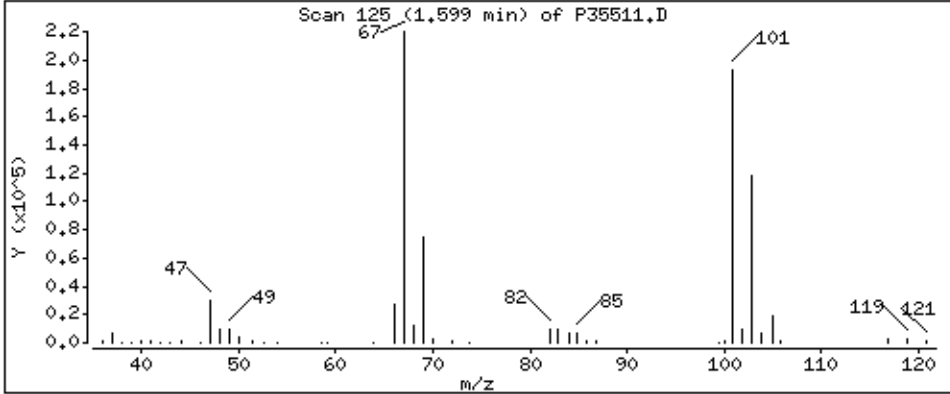
Column phase: RTX-624

Column diameter: 0.18

11 Trichlorofluoromethane

Concentration: 43.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

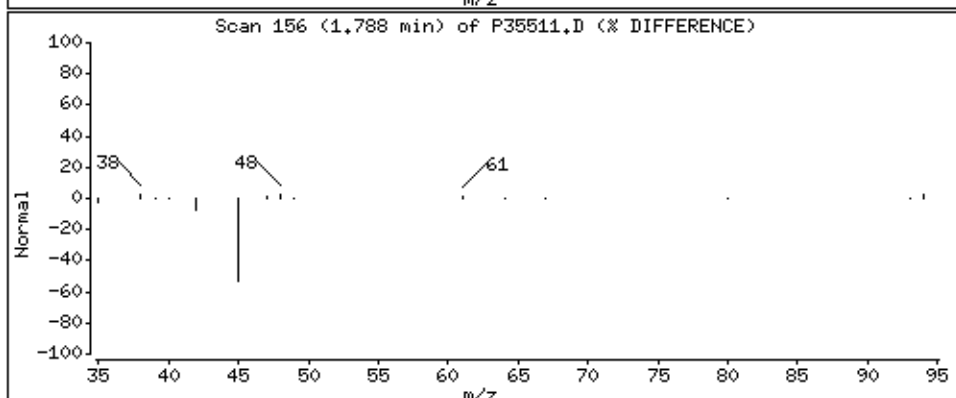
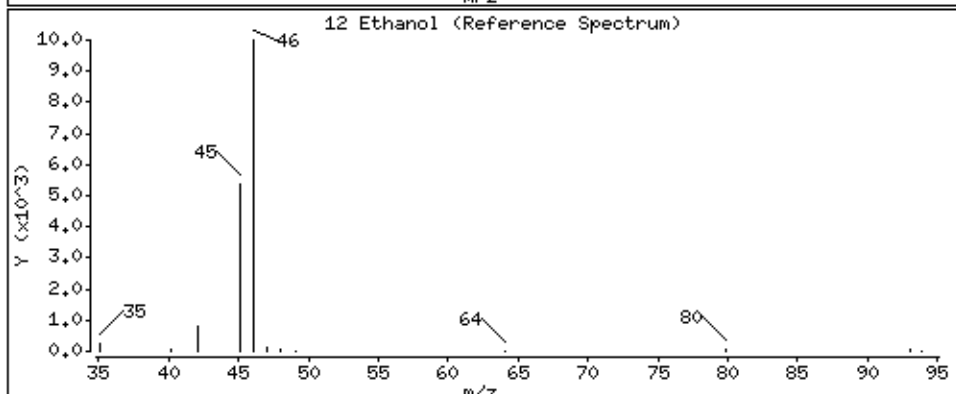
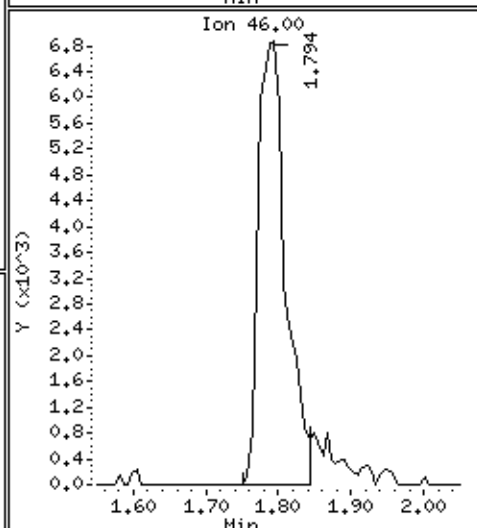
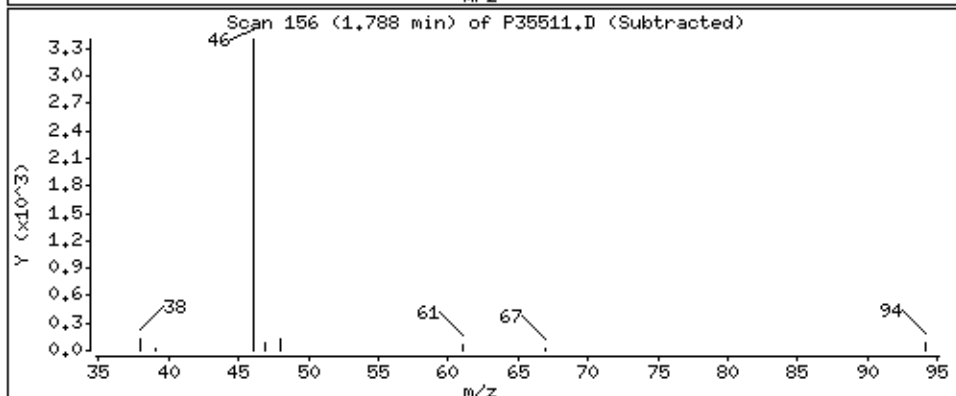
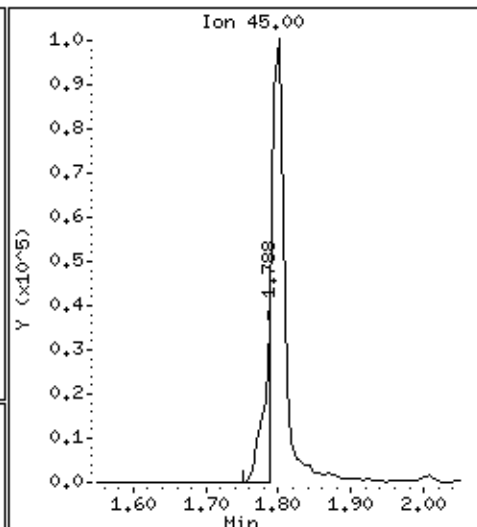
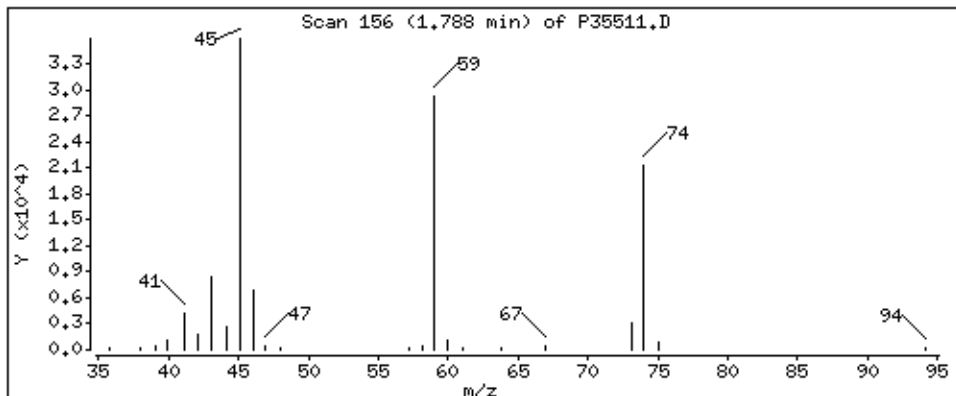
Column phase: RTX-624

Column diameter: 0,18

12 Ethanol

Concentration: 1870 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

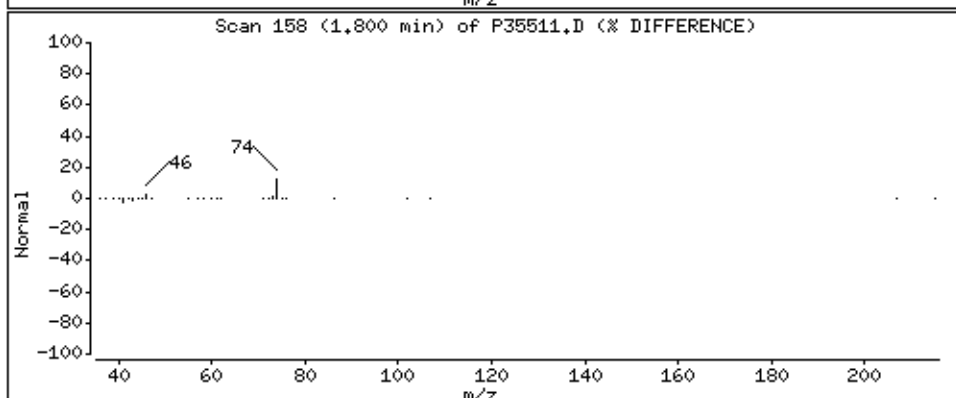
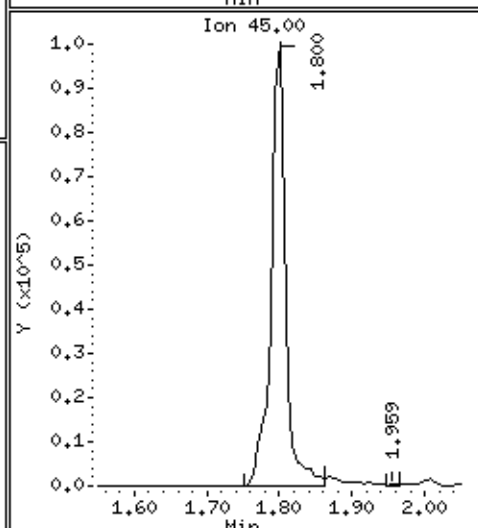
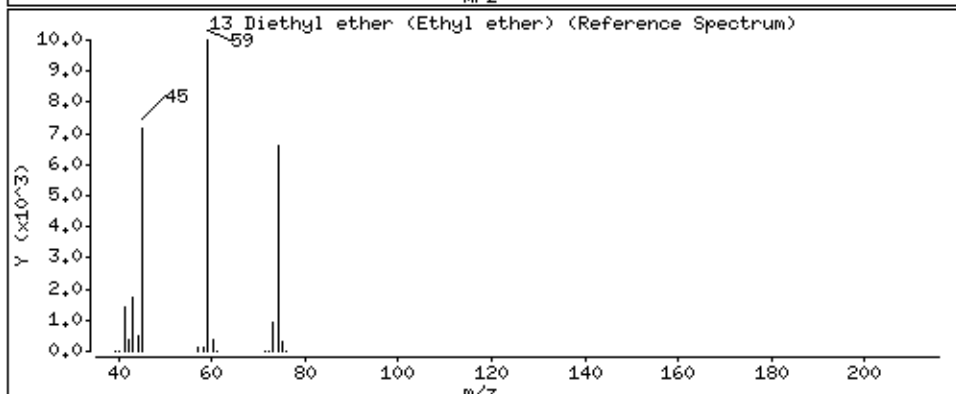
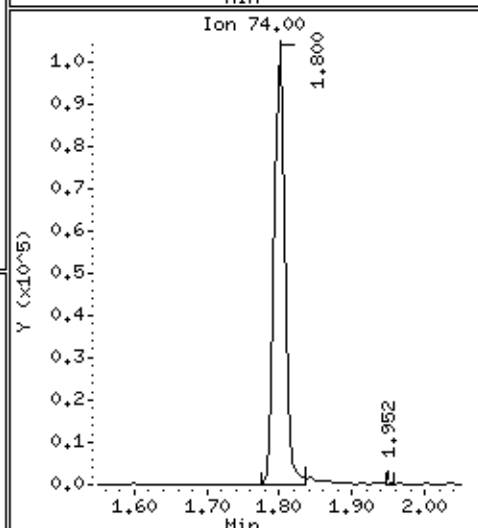
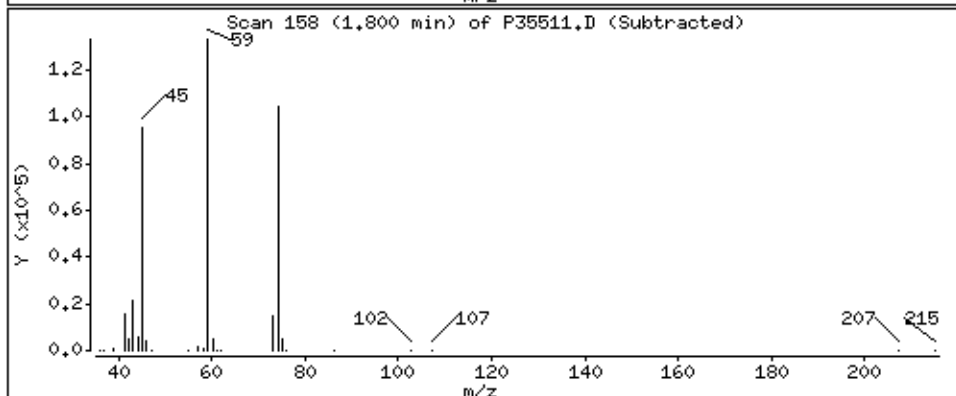
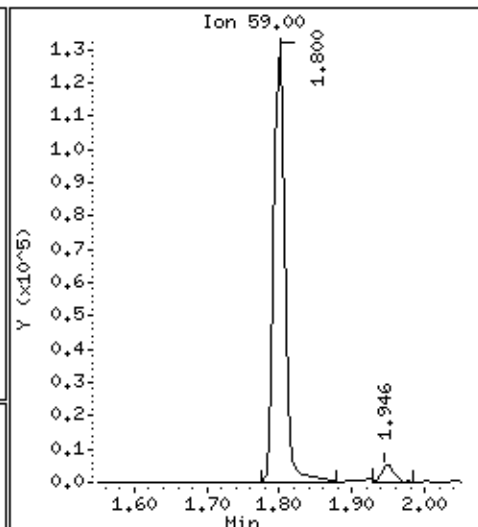
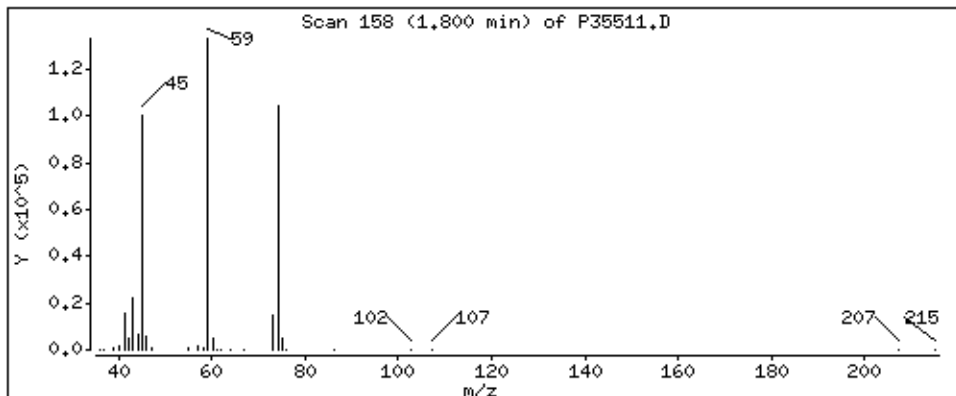
Column phase: RTX-624

Column diameter: 0.18

13 Diethyl ether (Ethyl ether)

Concentration: 48.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

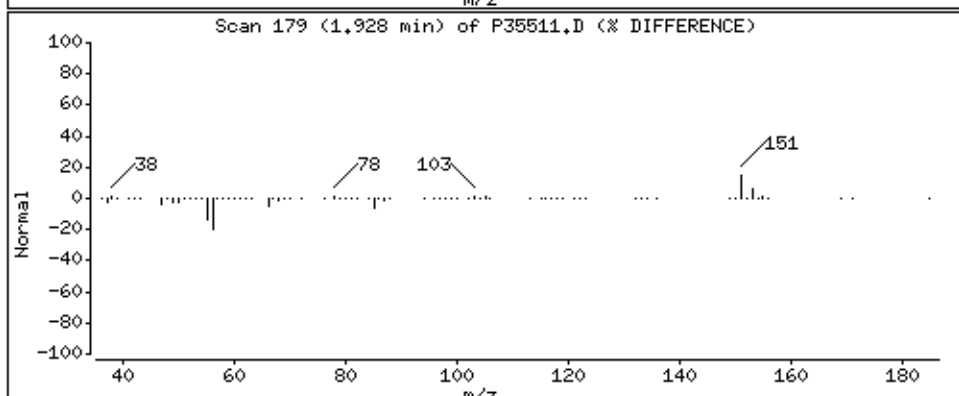
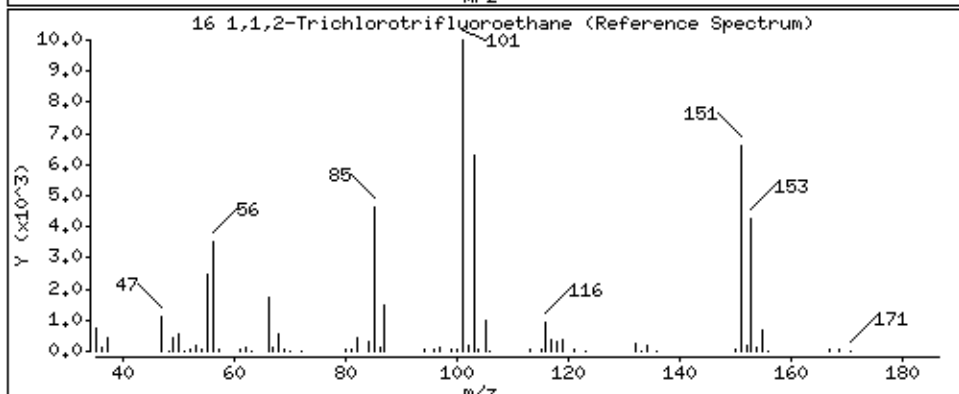
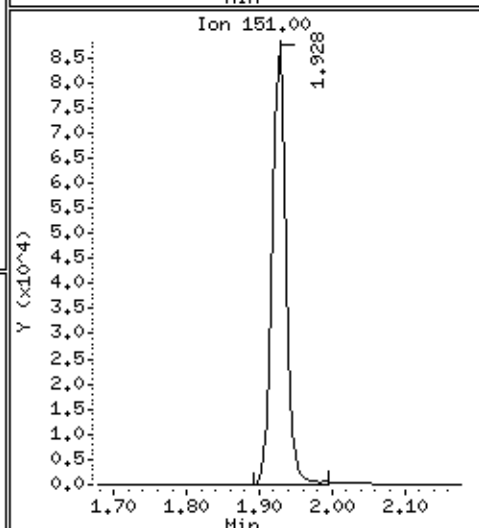
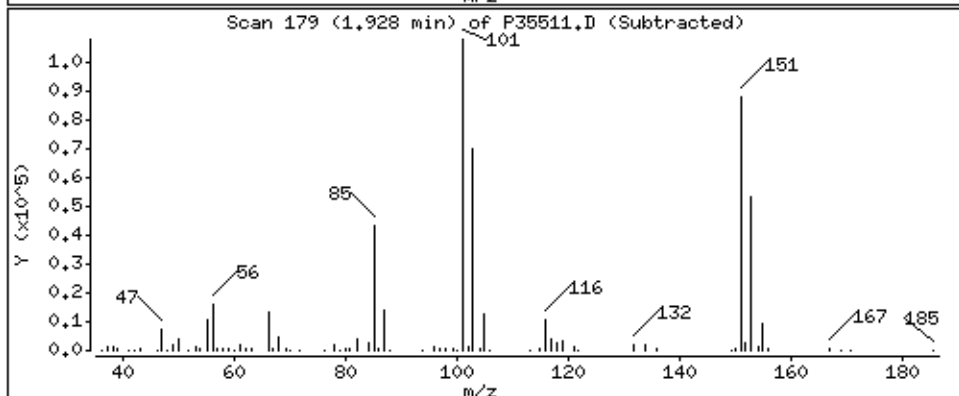
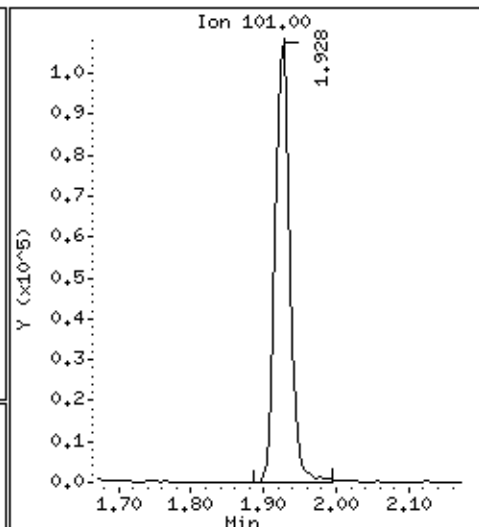
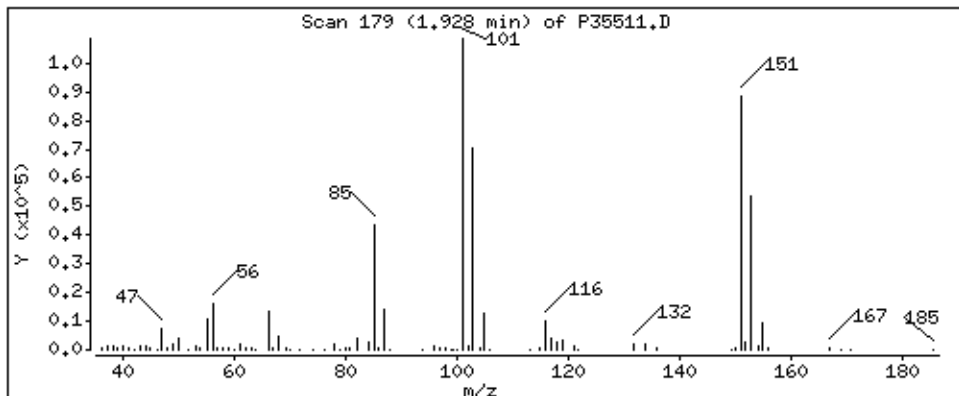
Column phase: RTX-624

Column diameter: 0,18

16 1,1,2-Trichlorotrifluoroethane

Concentration: 46,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

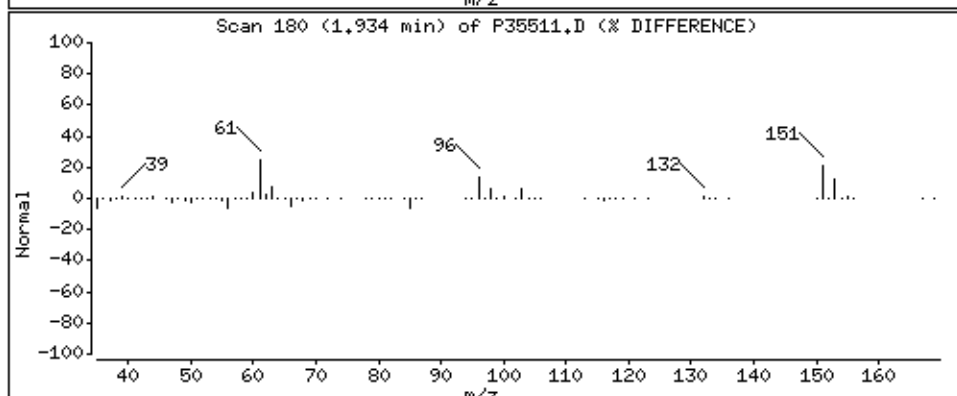
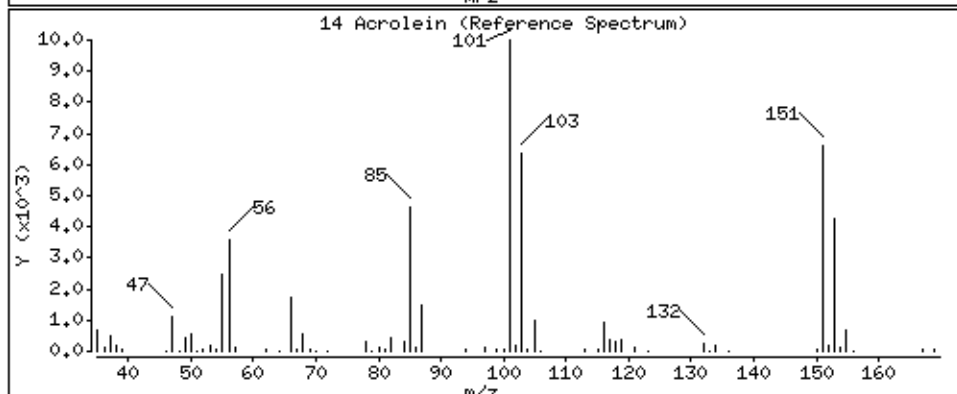
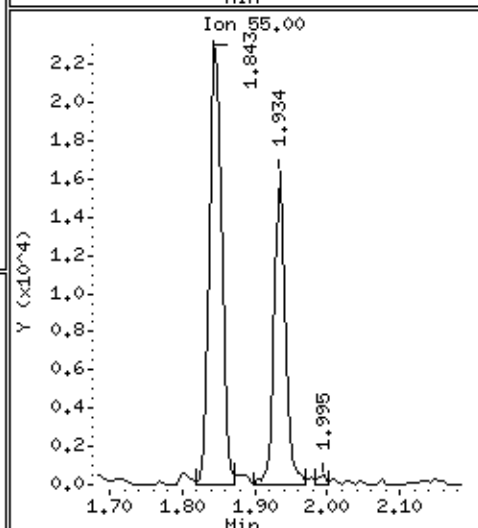
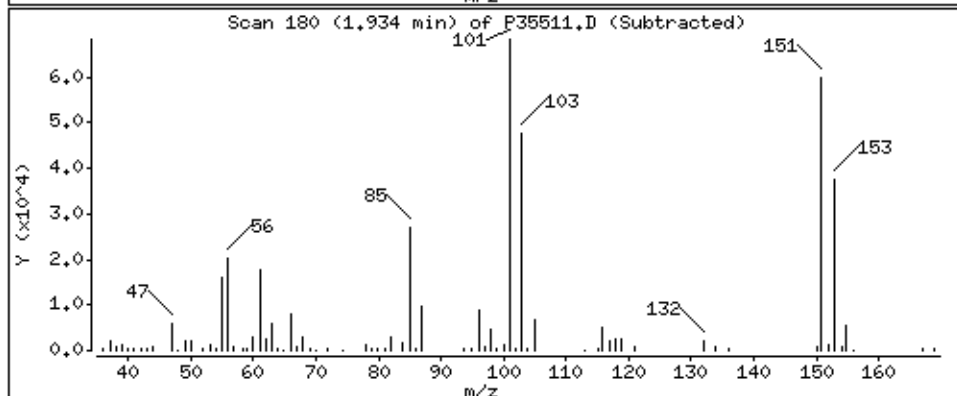
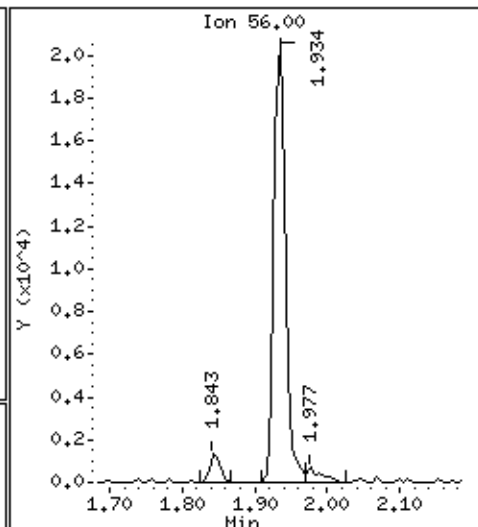
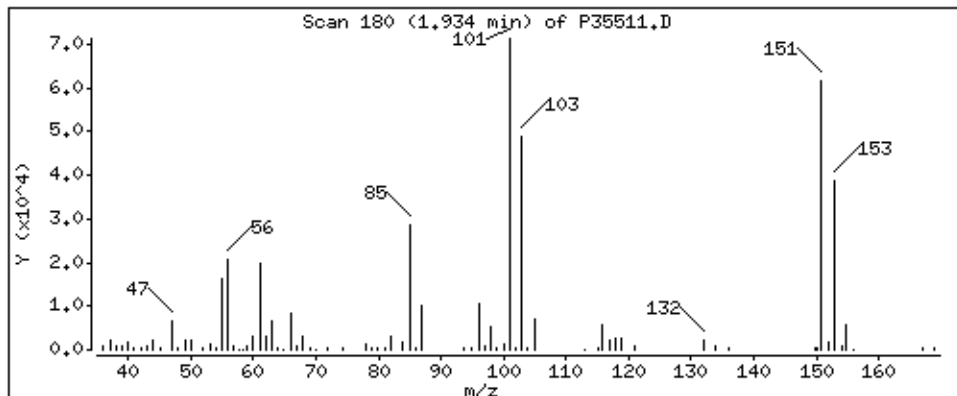
Column phase: RTX-624

Column diameter: 0.18

14 Acrolein

Concentration: 61.5 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

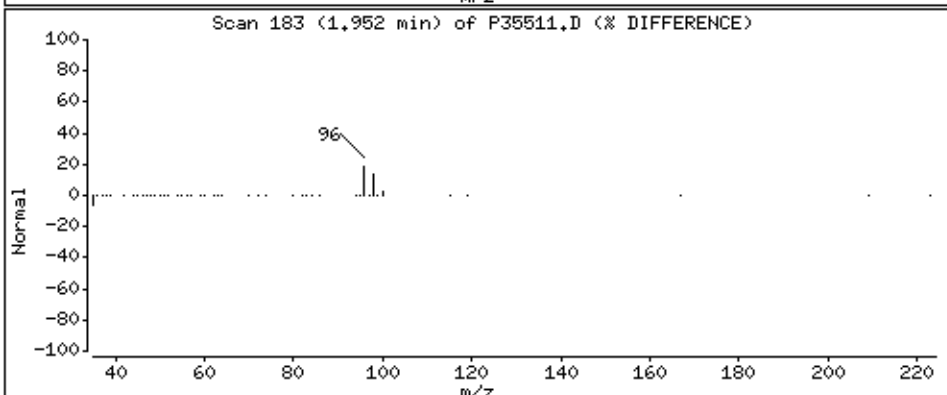
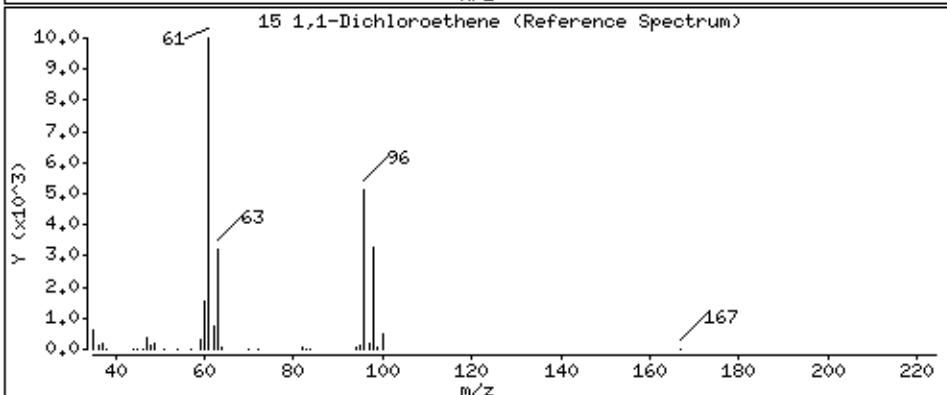
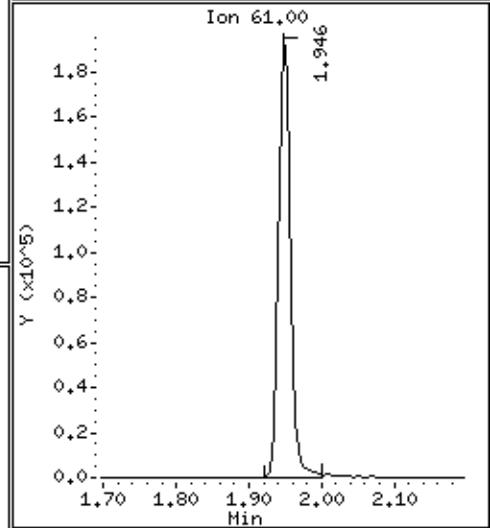
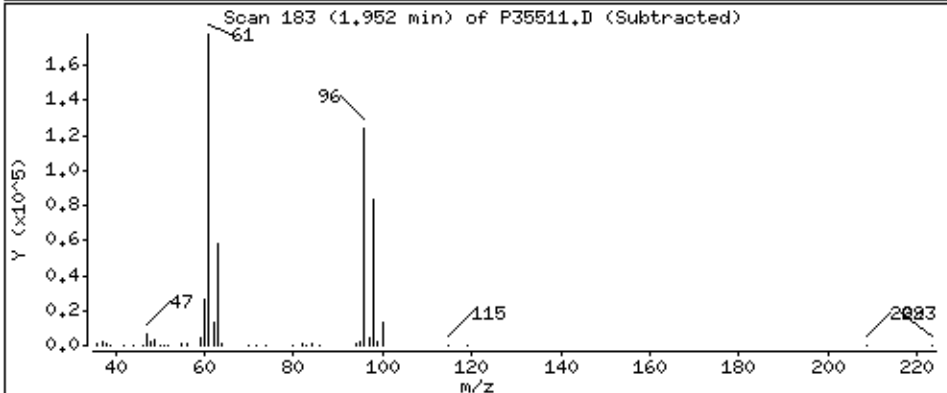
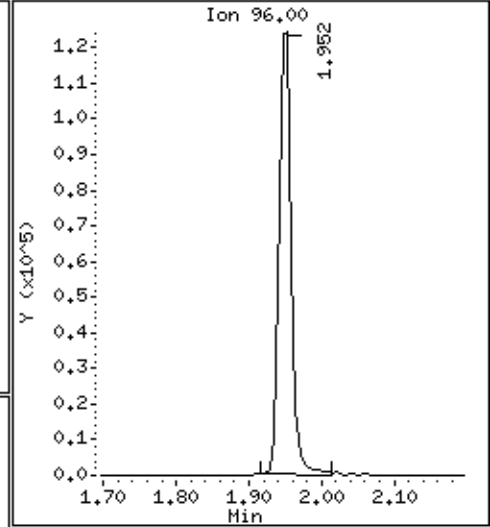
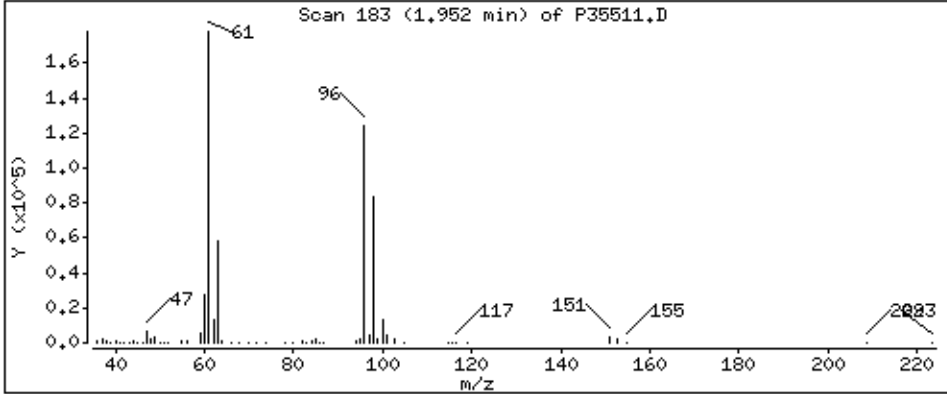
Column phase: RTX-624

Column diameter: 0.18

15 1,1-Dichloroethene

Concentration: 51.3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

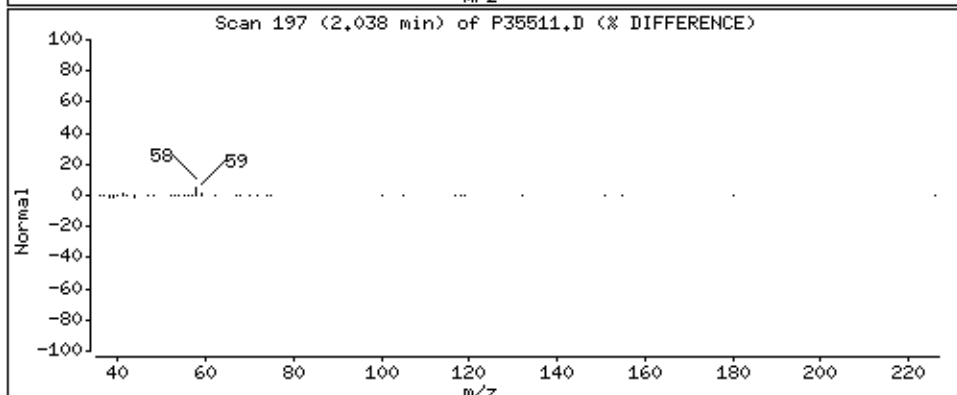
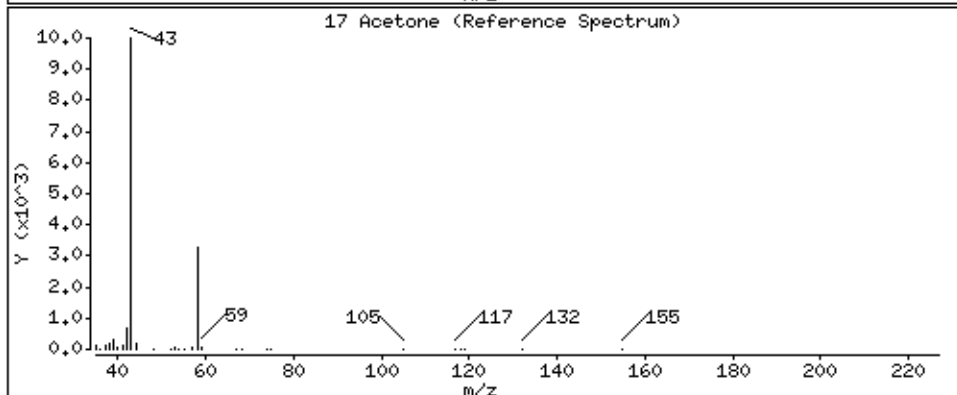
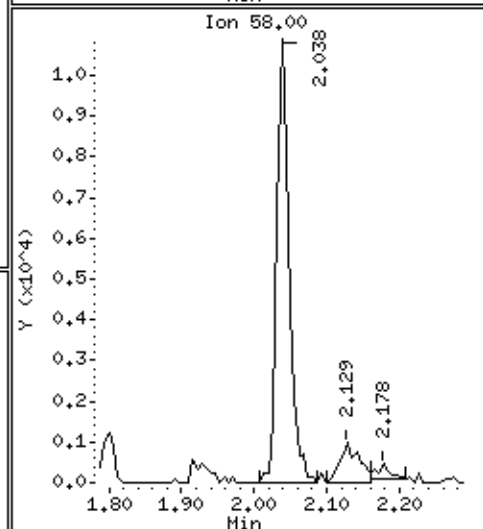
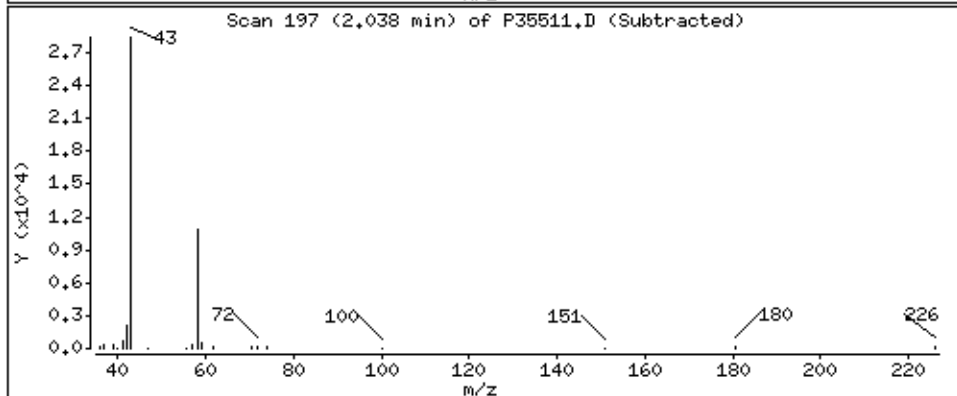
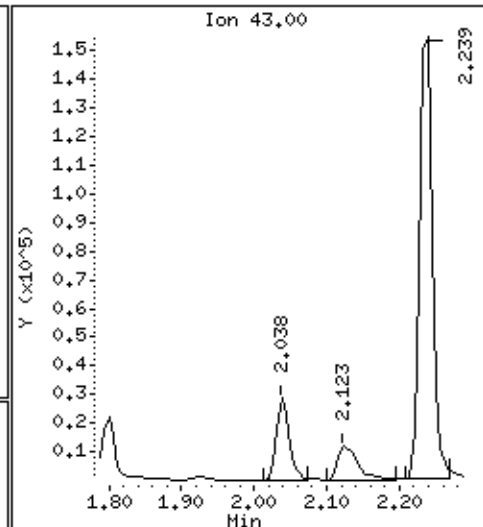
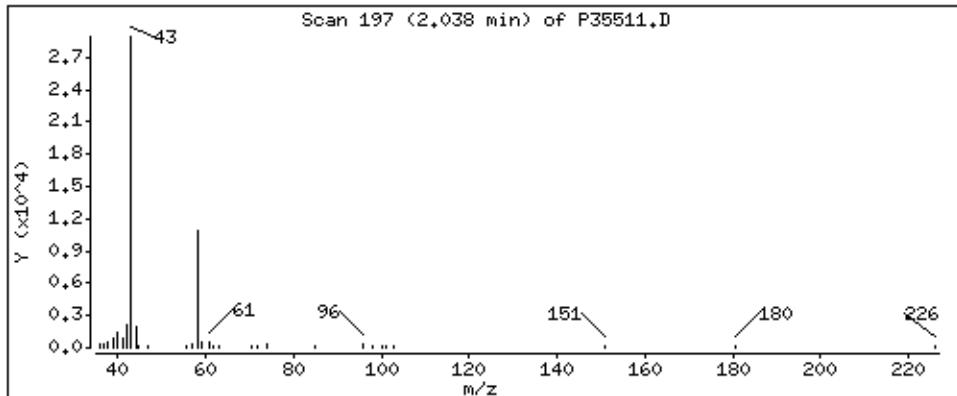
Column phase: RTX-624

Column diameter: 0,18

17 Acetone

Concentration: 33,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

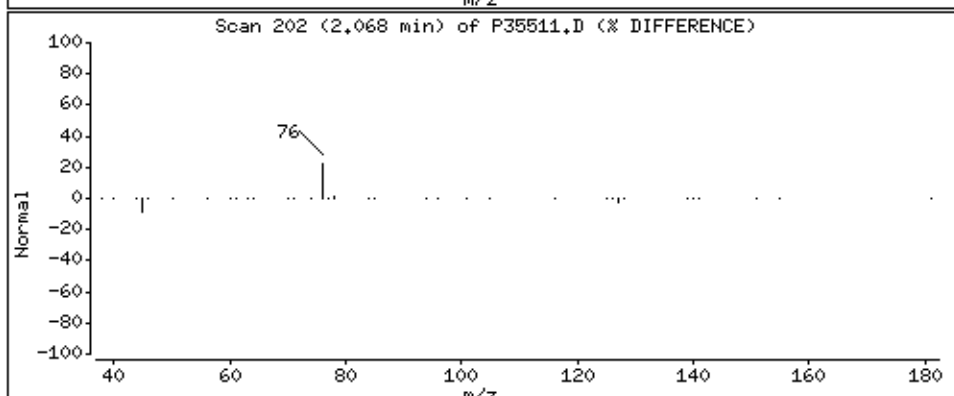
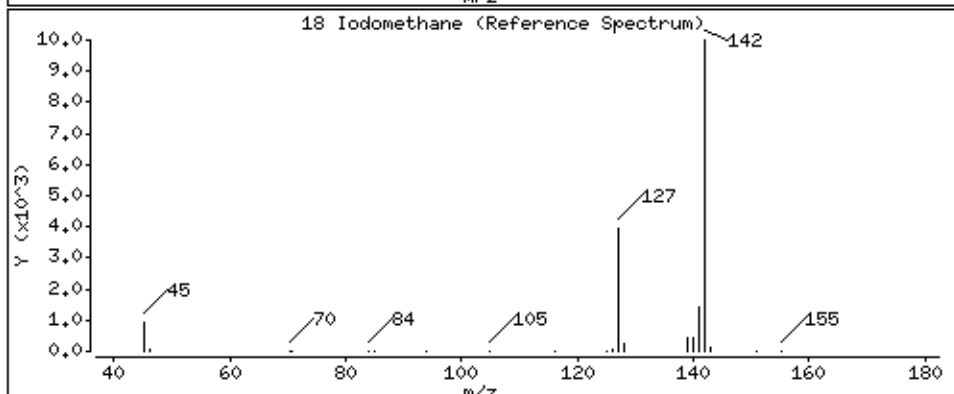
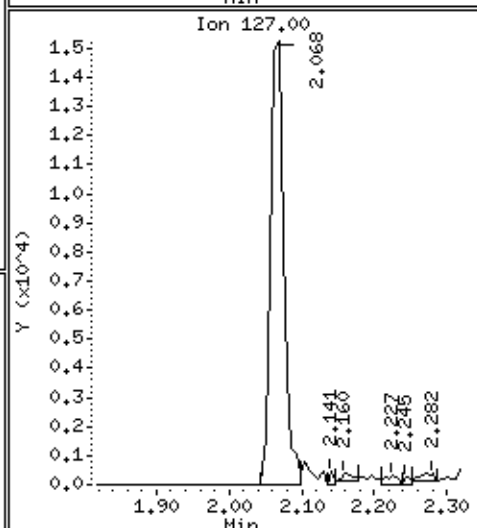
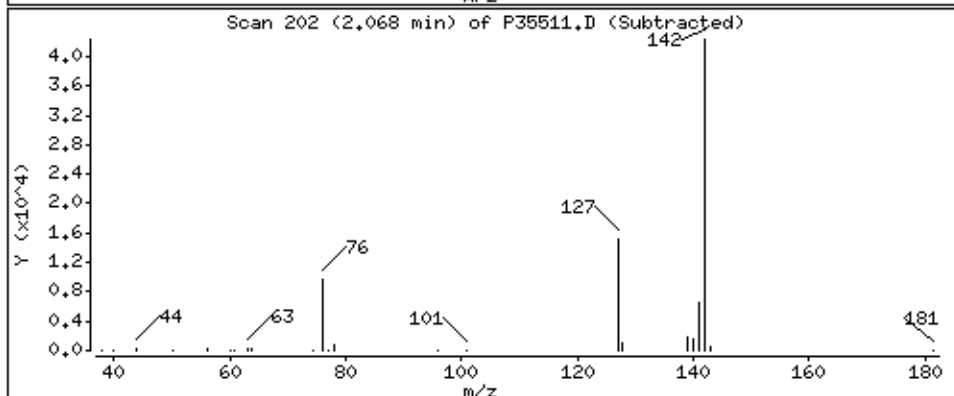
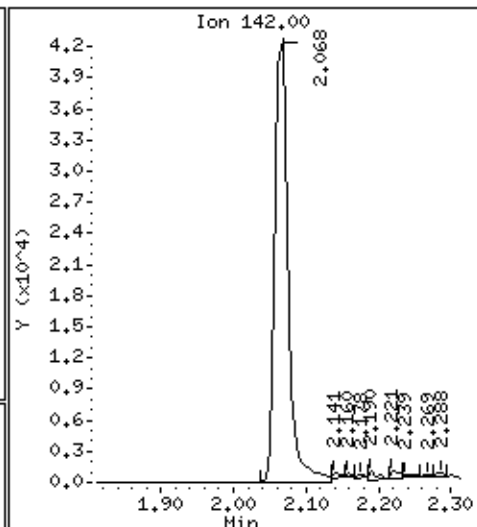
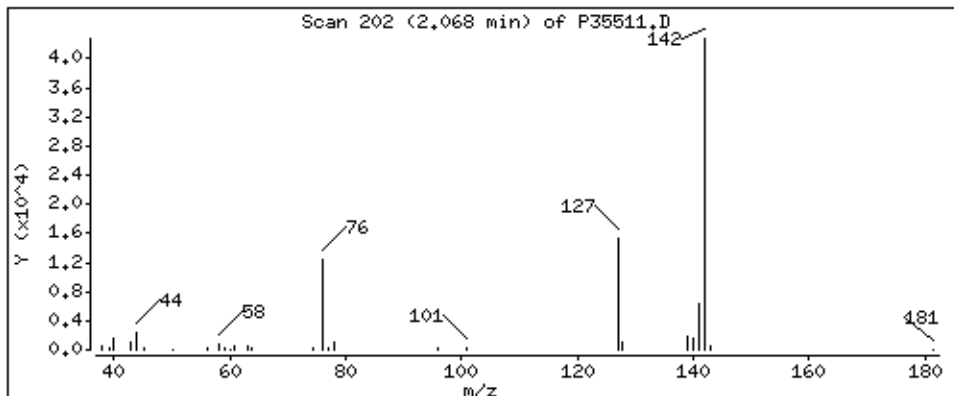
Column phase: RTX-624

Column diameter: 0,18

18 Iodomethane

Concentration: 33,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

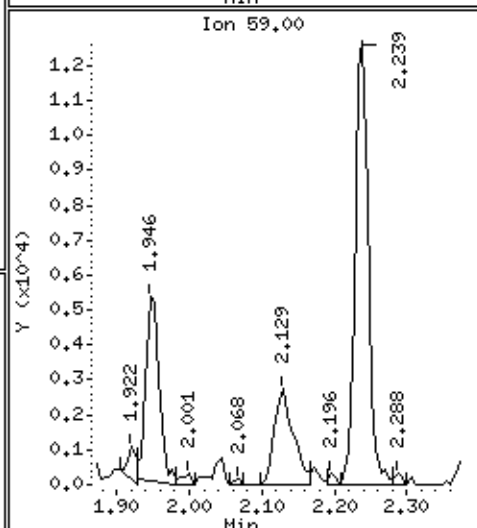
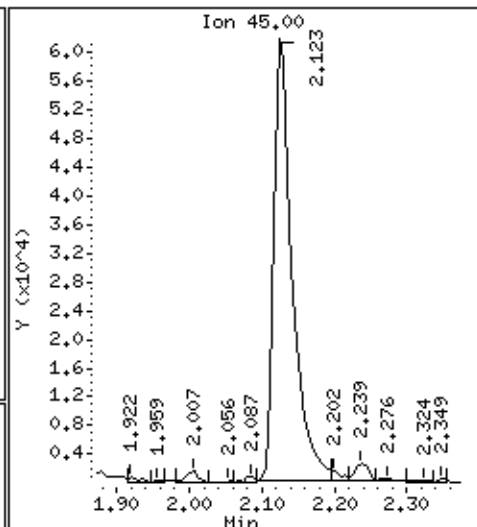
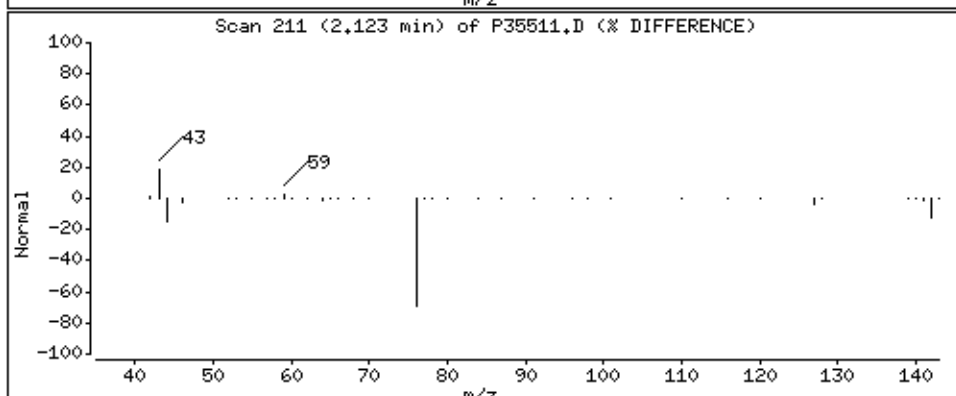
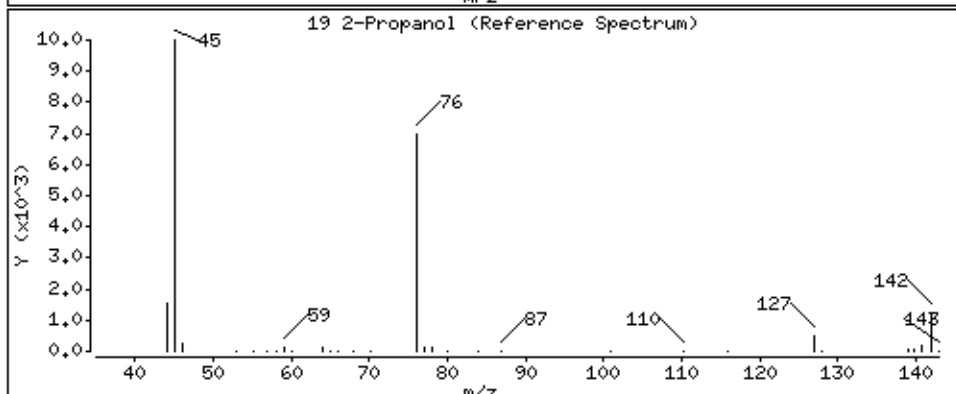
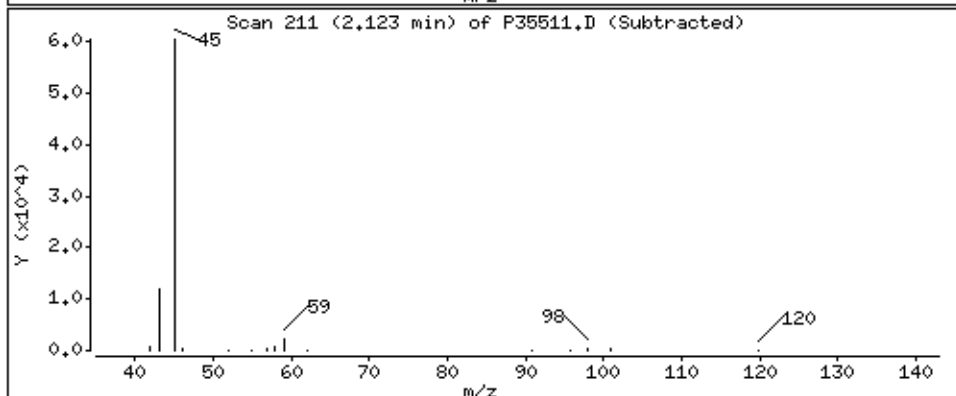
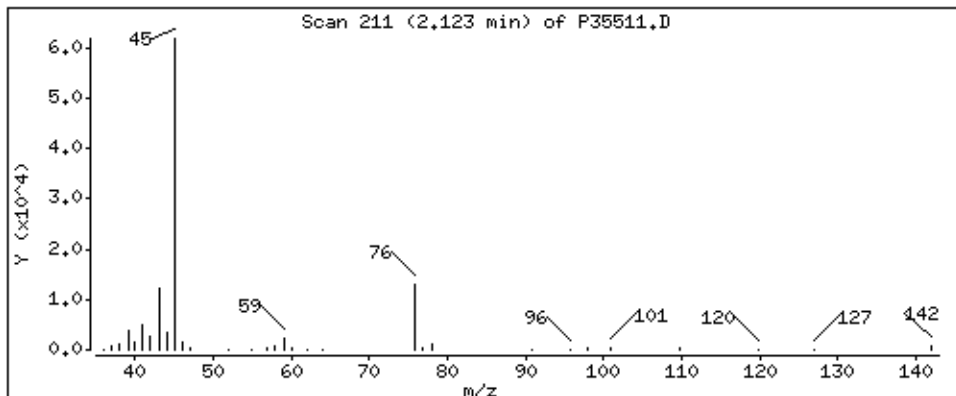
Column phase: RTX-624

Column diameter: 0,18

19 2-Propanol

Concentration: 1040 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

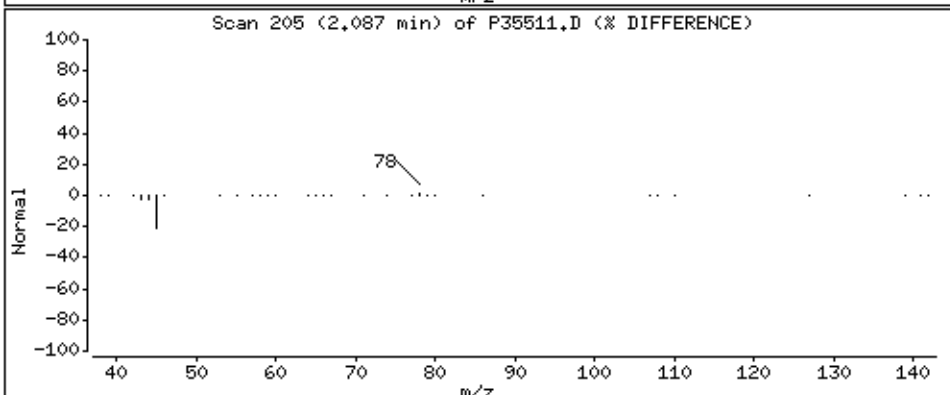
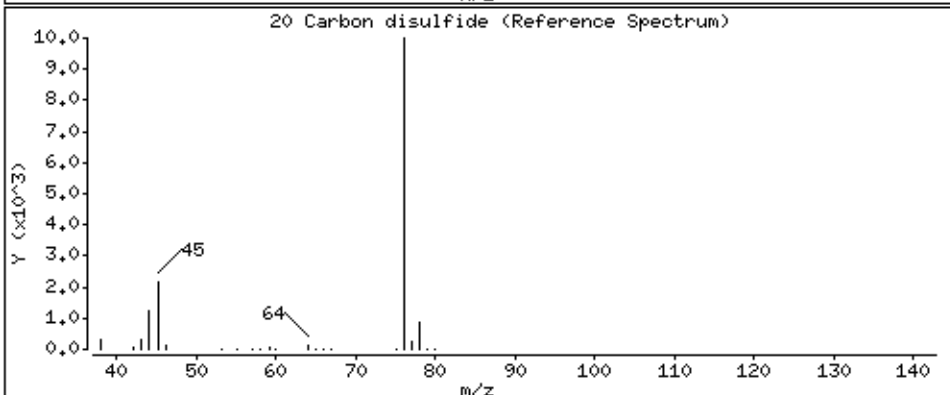
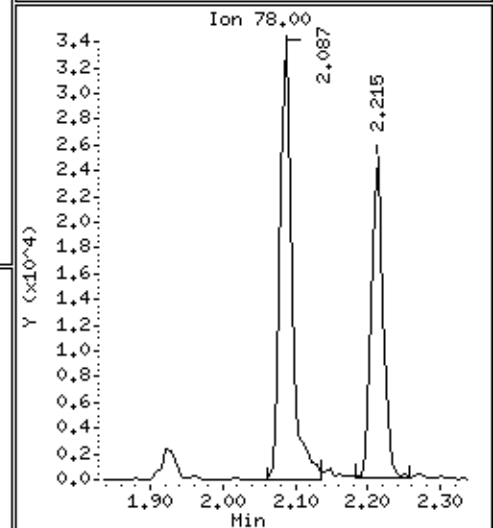
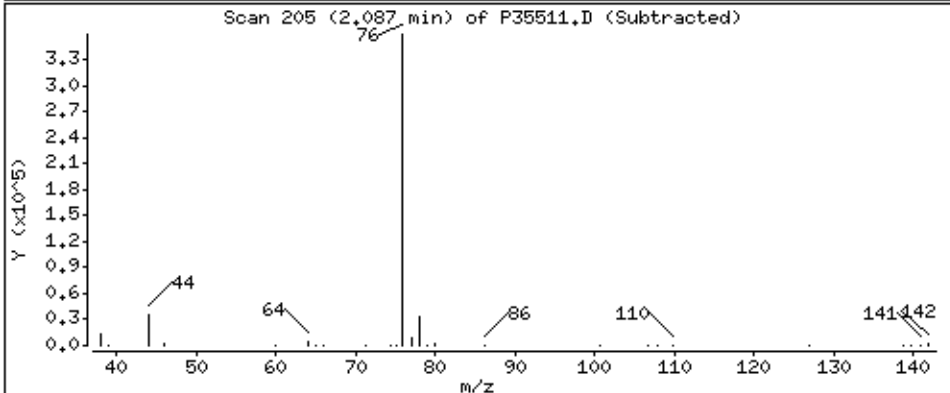
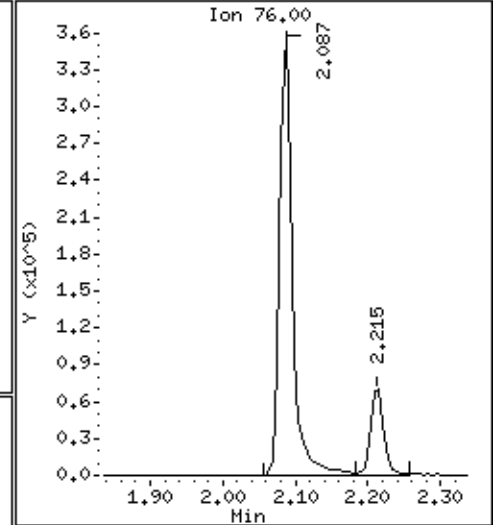
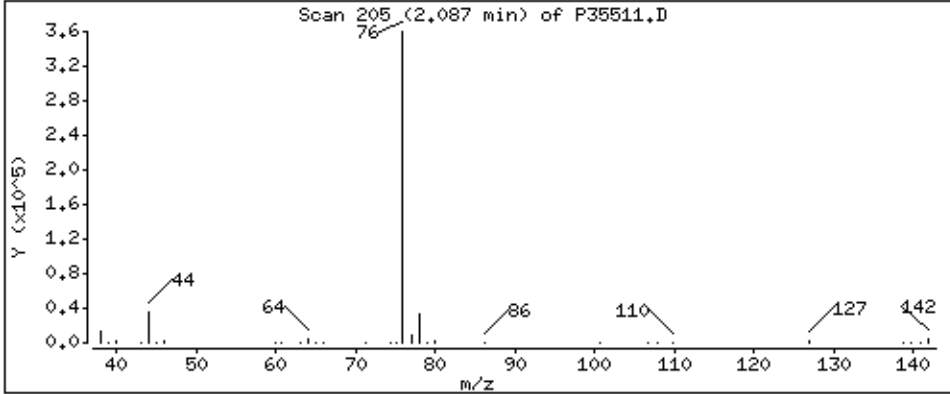
Column phase: RTX-624

Column diameter: 0,18

20 Carbon disulfide

Concentration: 44,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

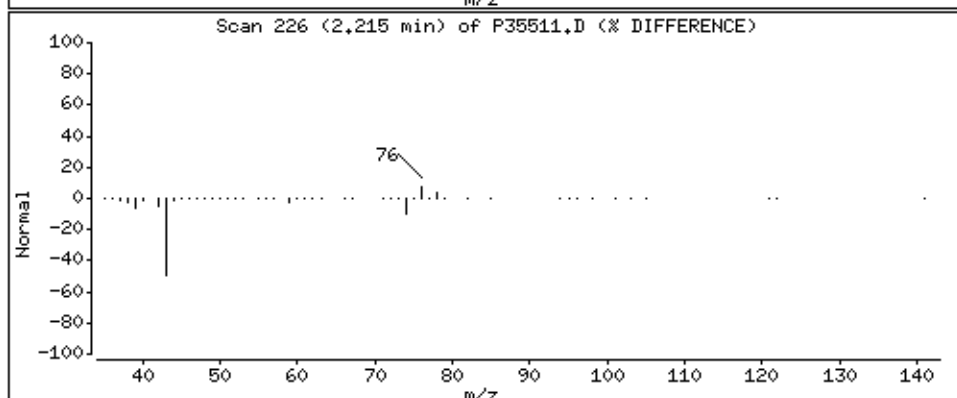
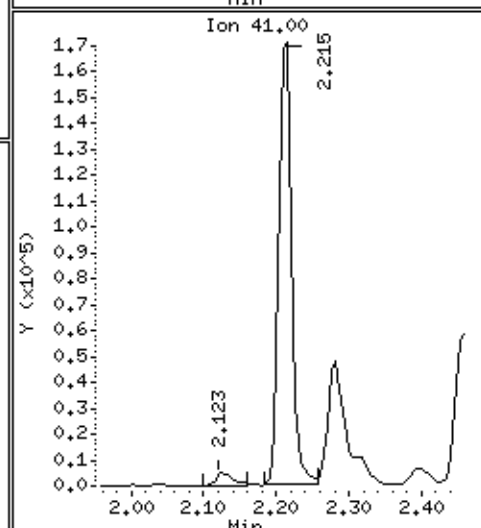
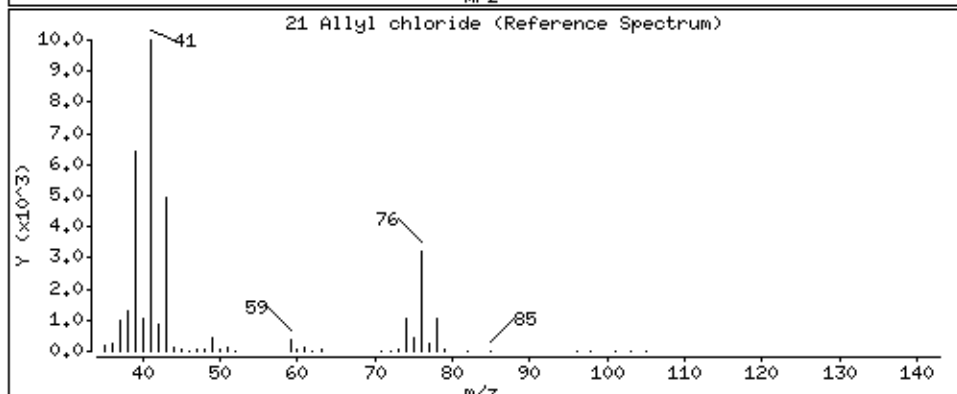
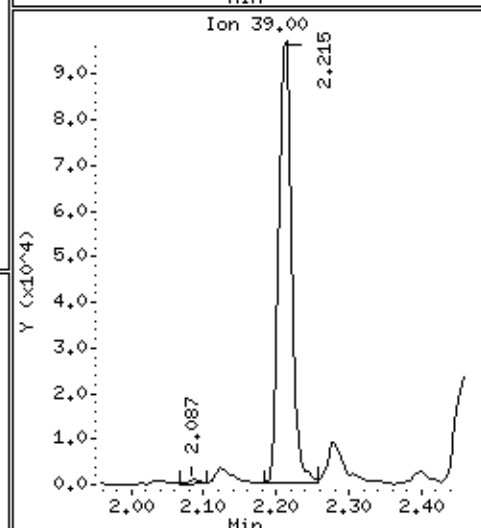
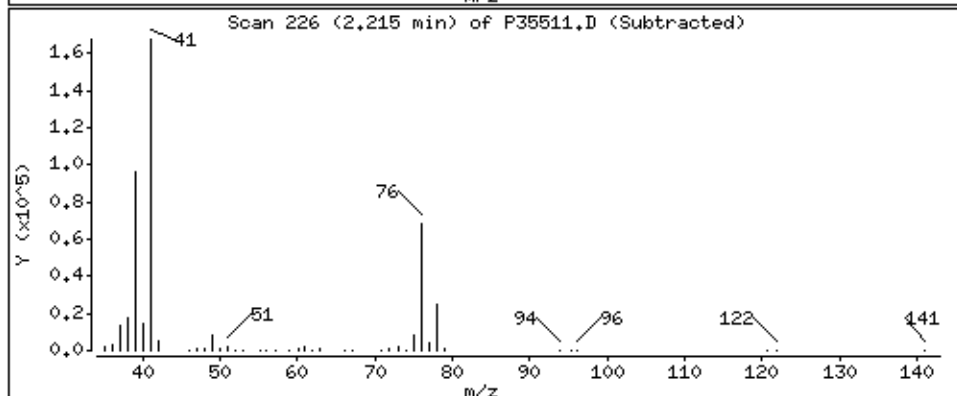
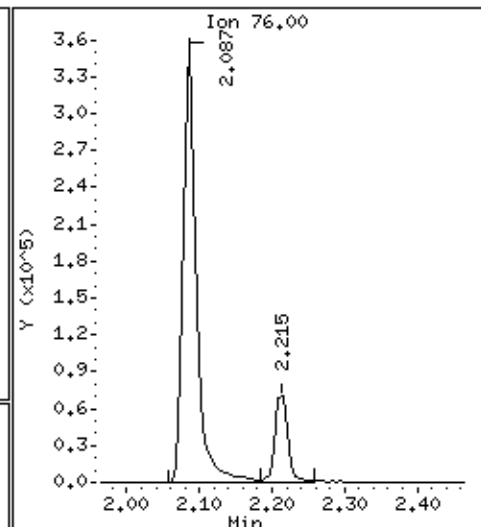
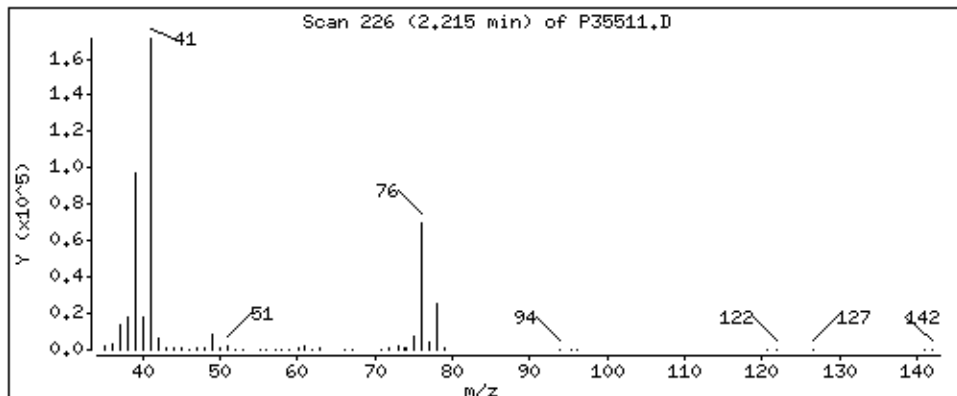
Column phase: RTX-624

Column diameter: 0.18

21 Allyl chloride

Concentration: 44.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

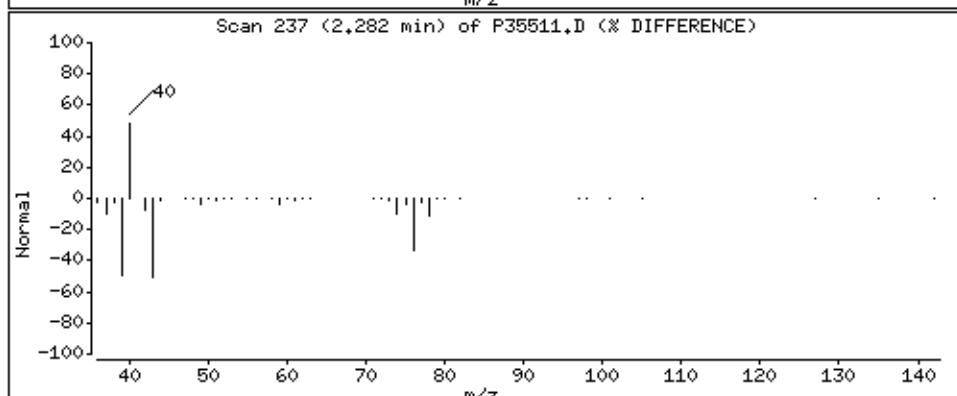
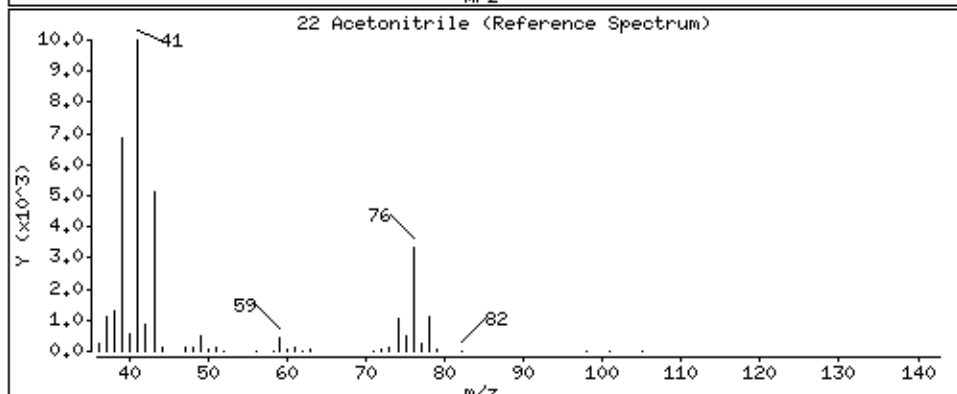
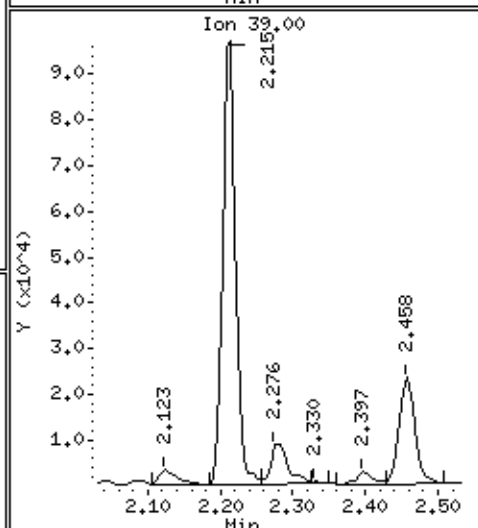
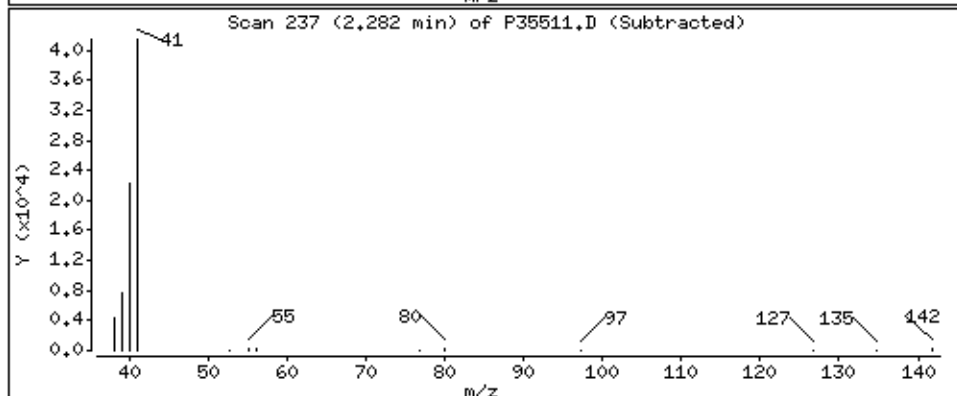
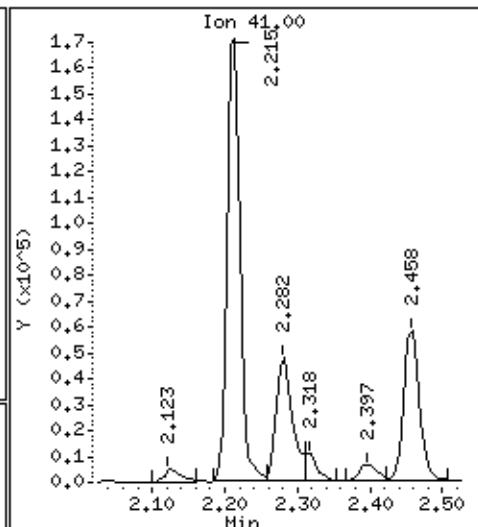
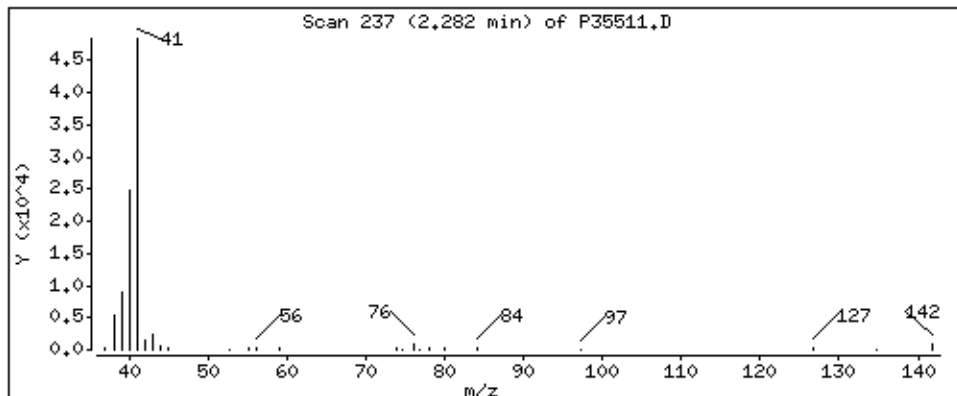
Column phase: RTX-624

Column diameter: 0.18

22 Acetonitrile

Concentration: 205 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

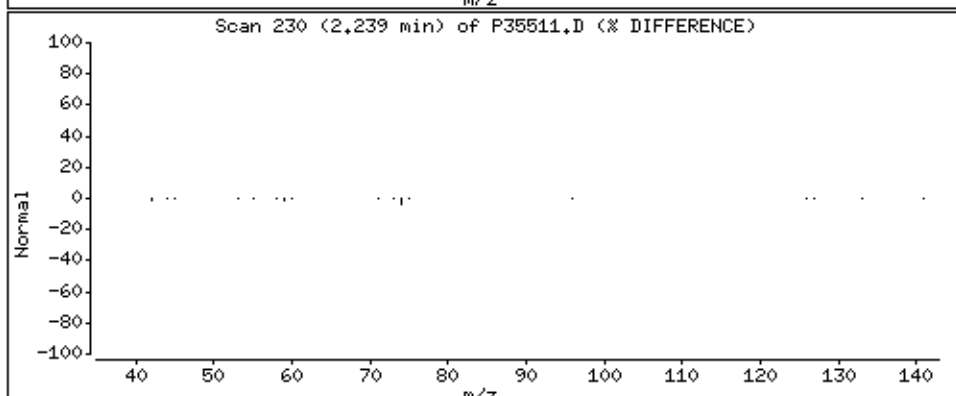
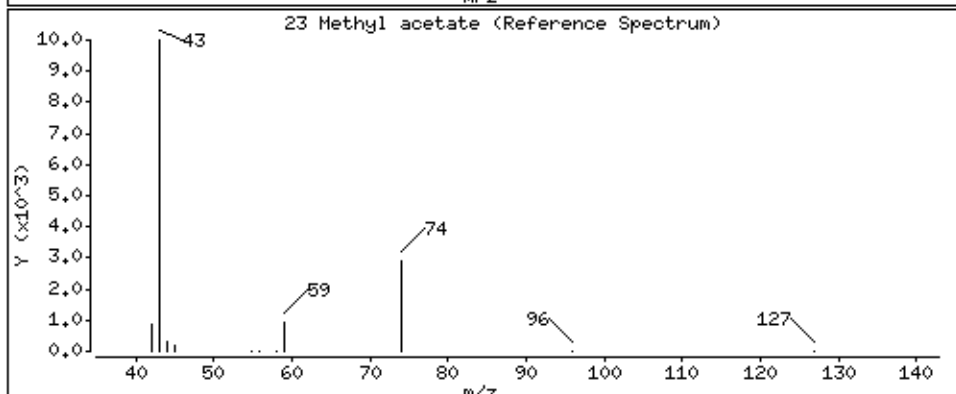
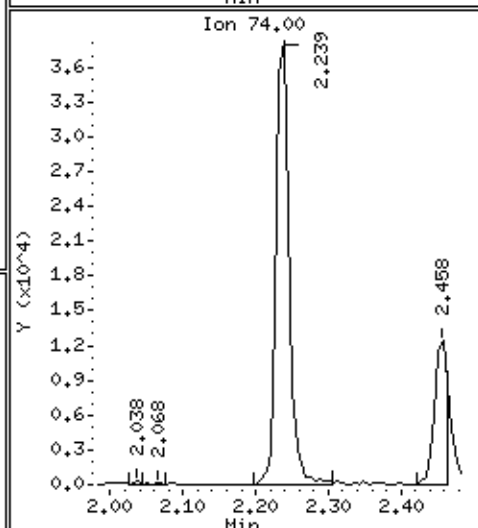
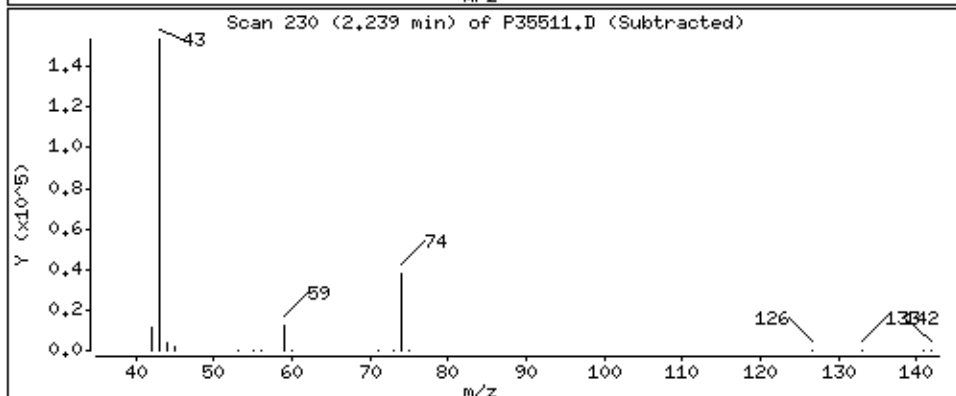
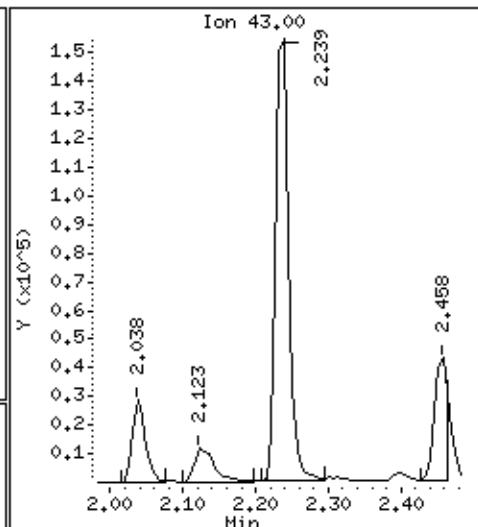
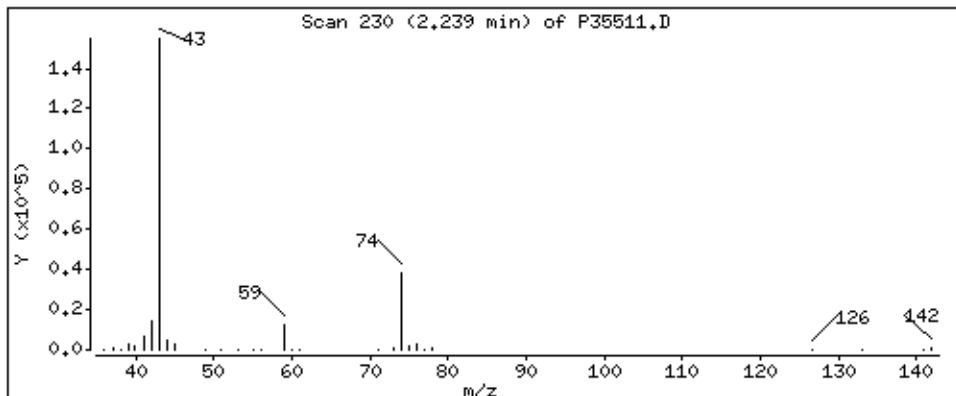
Column phase: RTX-624

Column diameter: 0,18

23 Methyl acetate

Concentration: 40,8 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

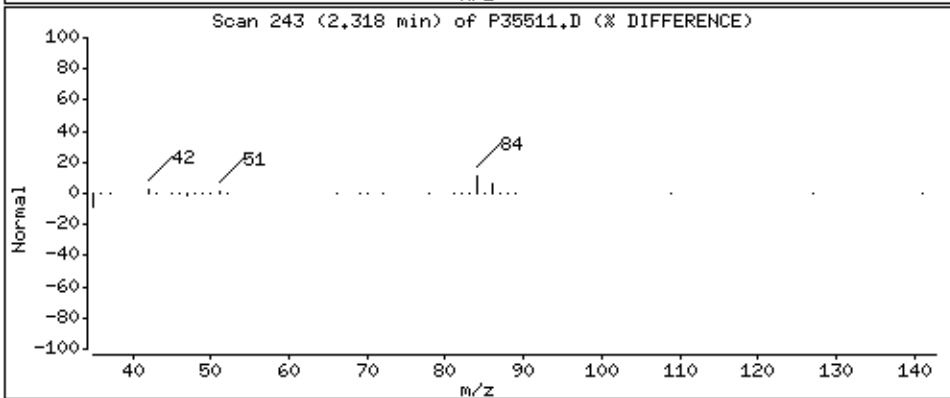
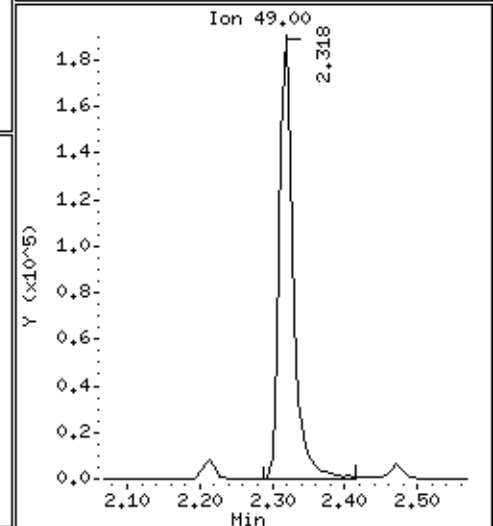
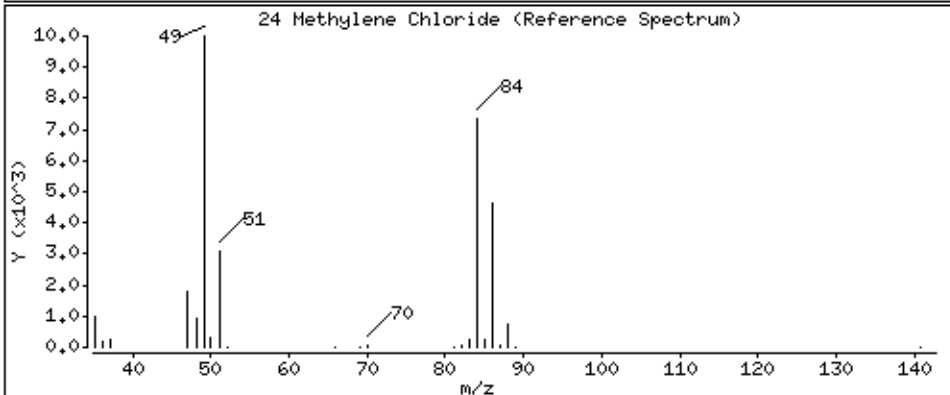
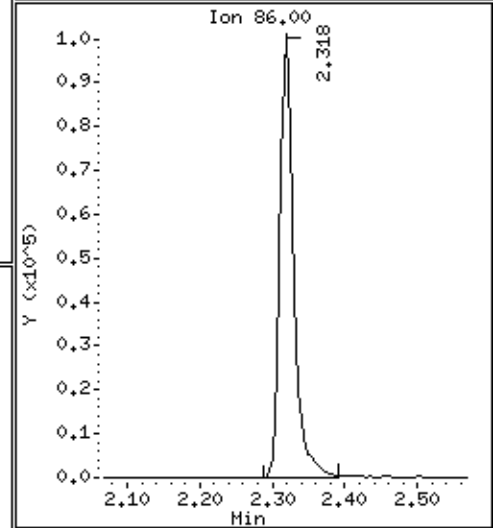
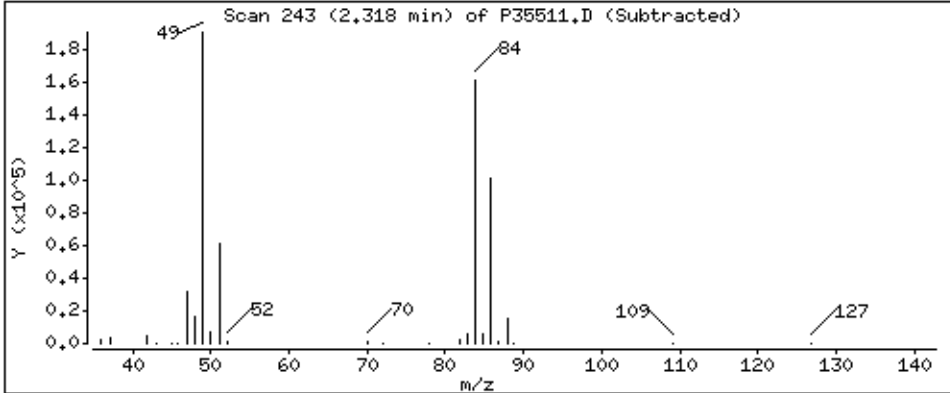
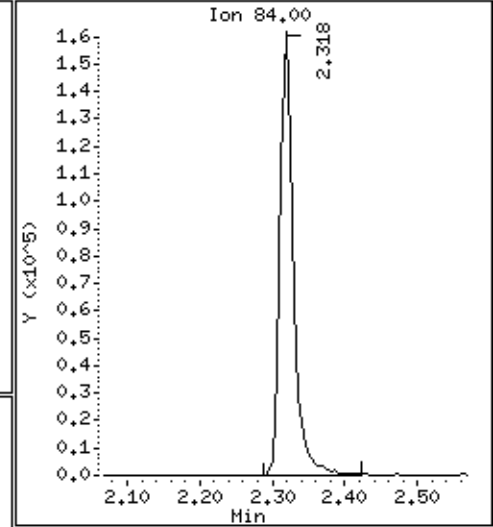
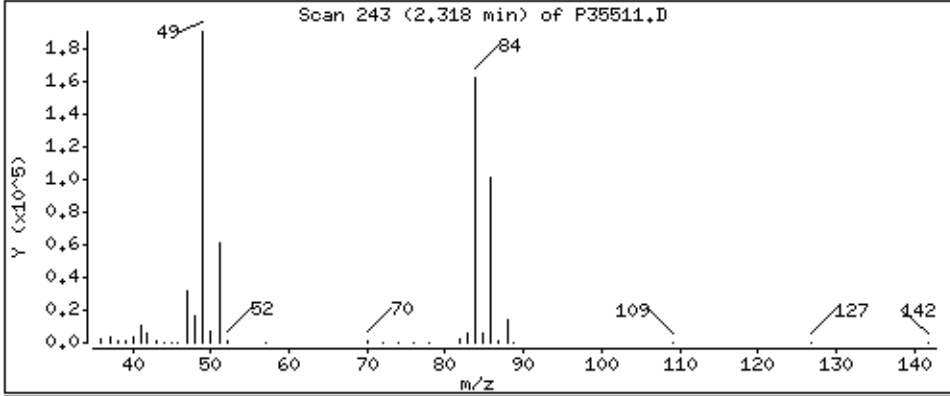
Column phase: RTX-624

Column diameter: 0,18

24 Methylene Chloride

Concentration: 61.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

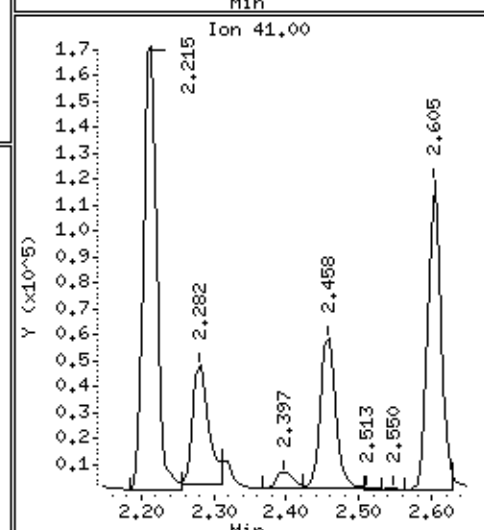
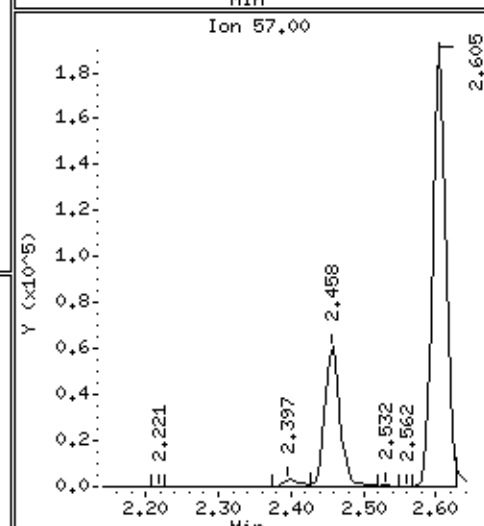
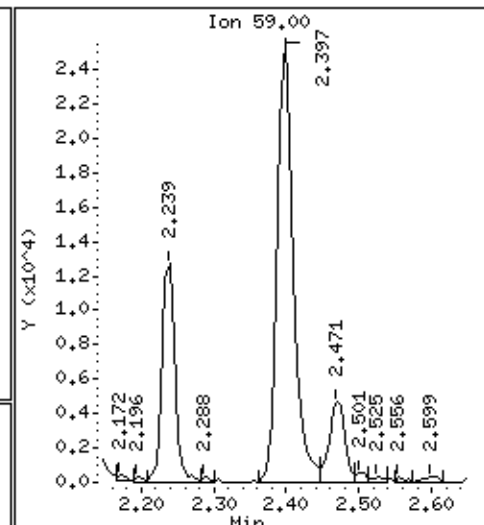
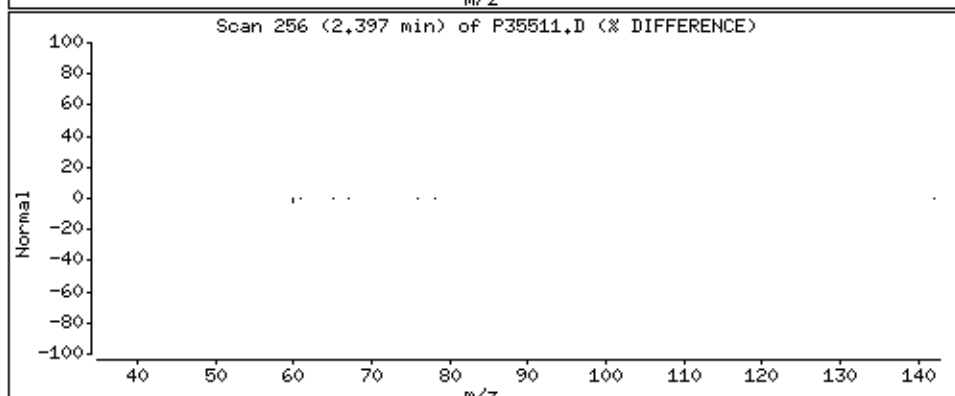
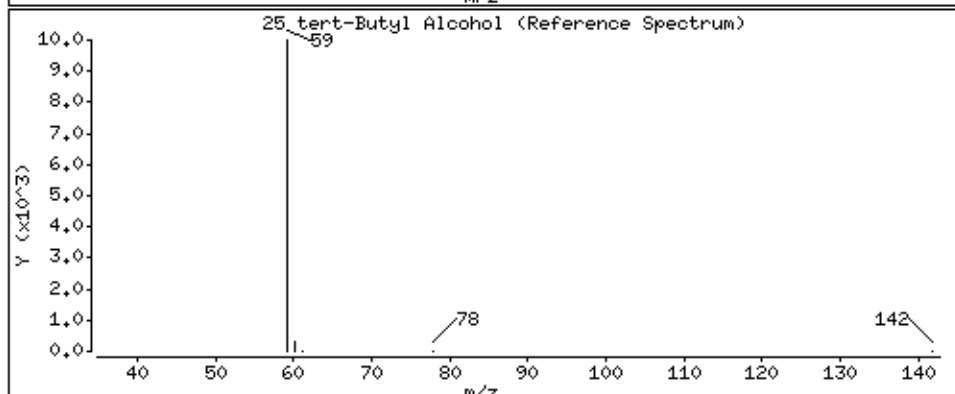
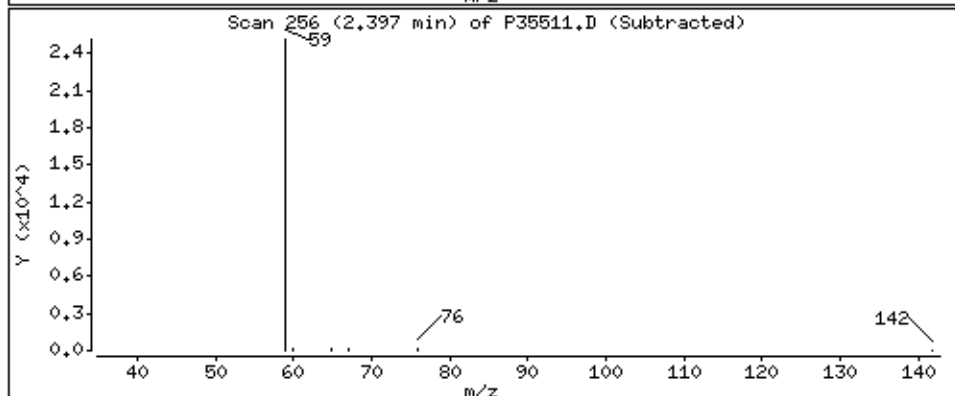
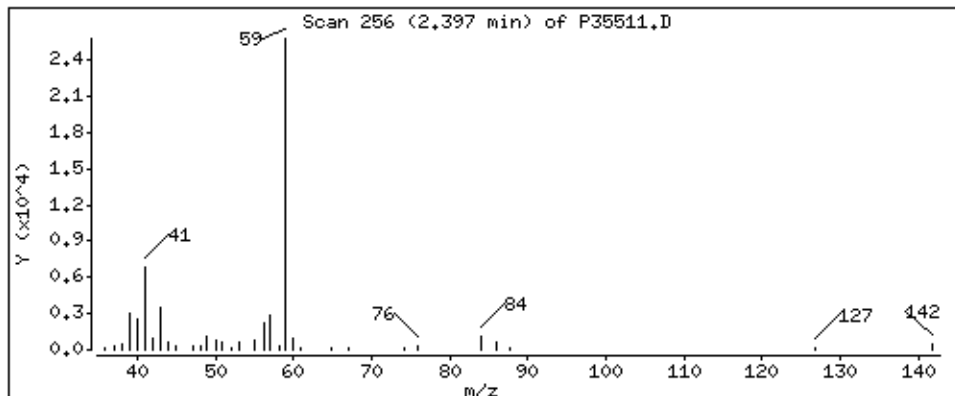
Column phase: RTX-624

Column diameter: 0,18

25 tert-Butyl Alcohol

Concentration: 232 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

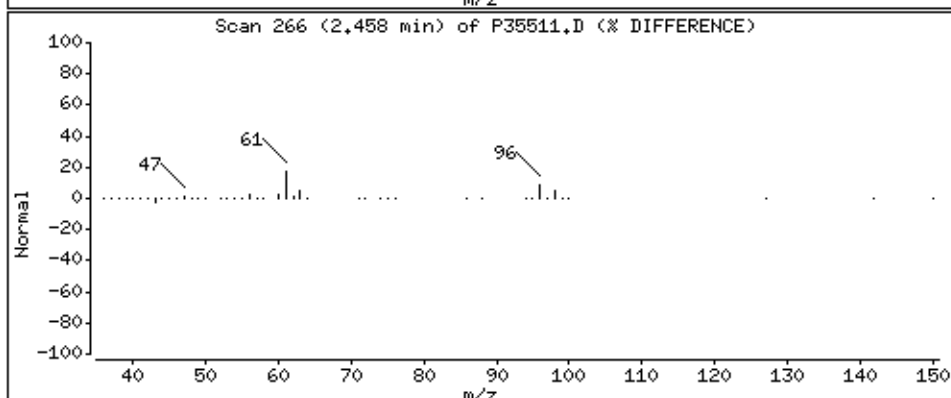
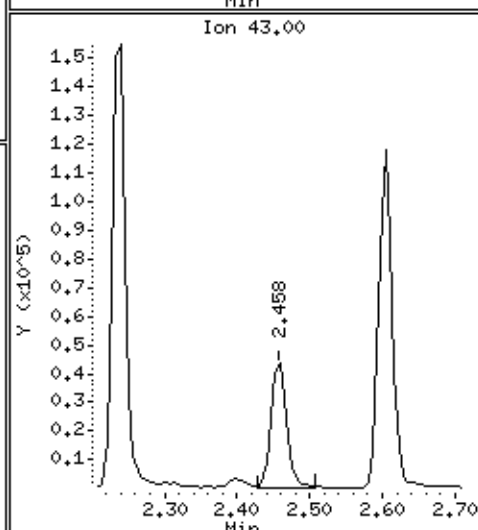
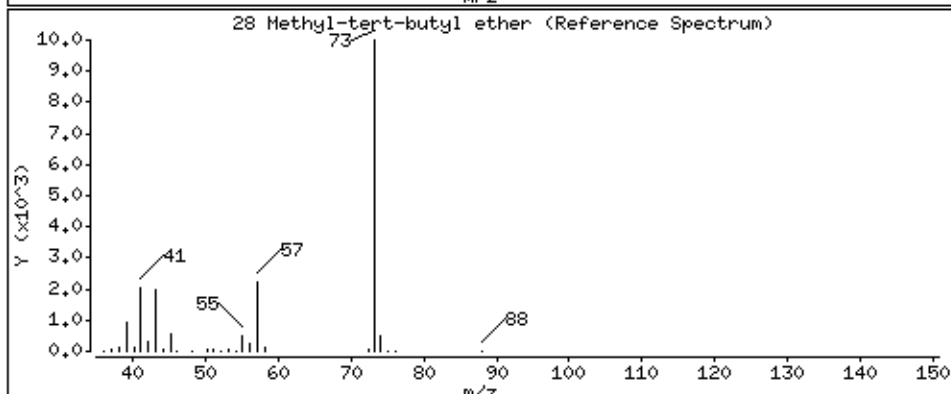
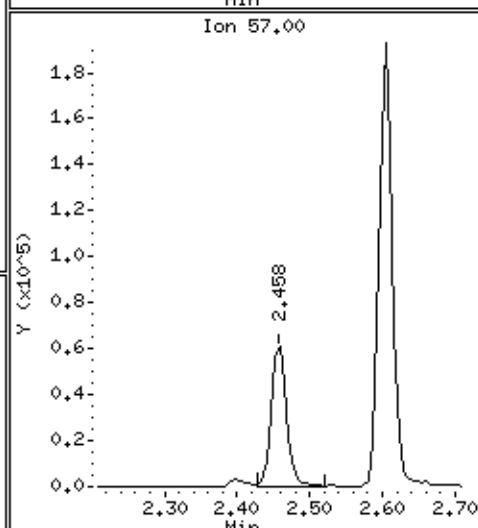
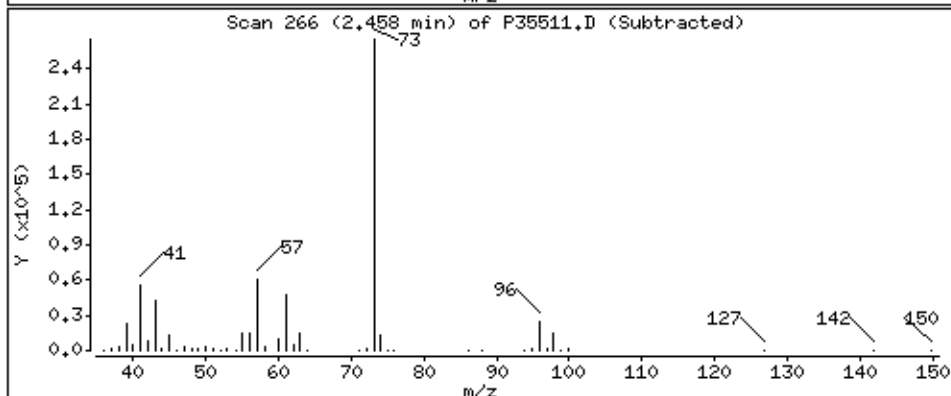
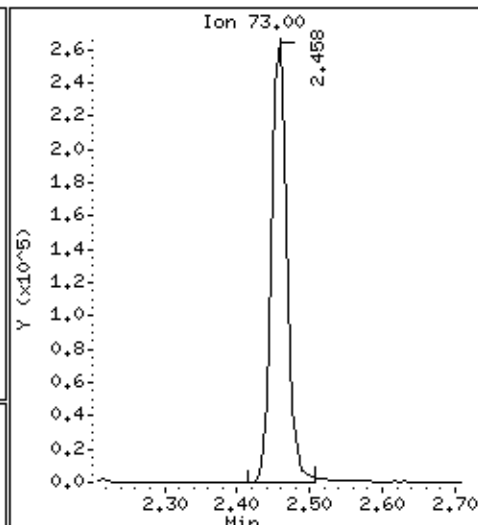
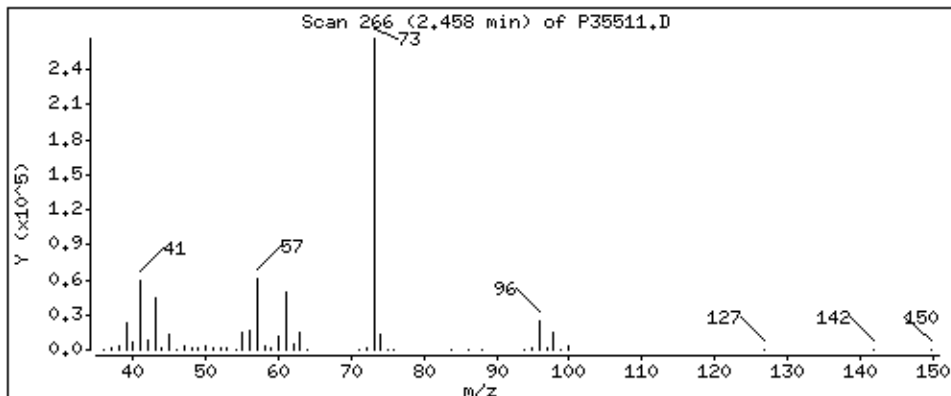
Column phase: RTX-624

Column diameter: 0.18

28 Methyl-tert-butyl ether

Concentration: 42.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

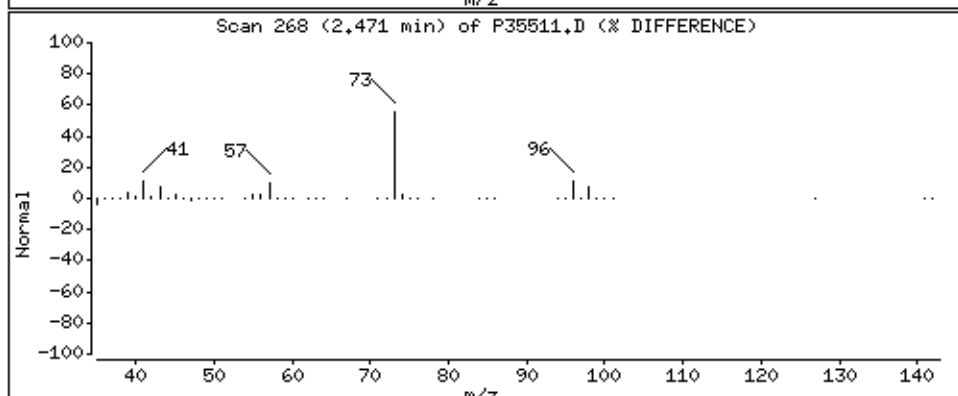
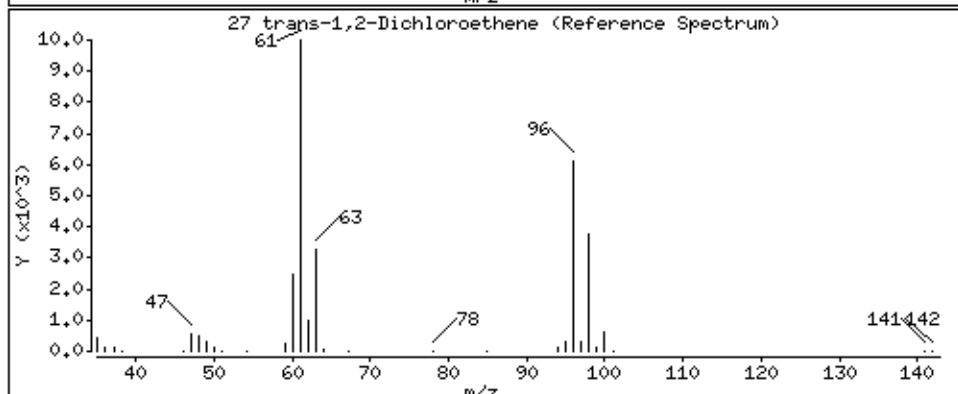
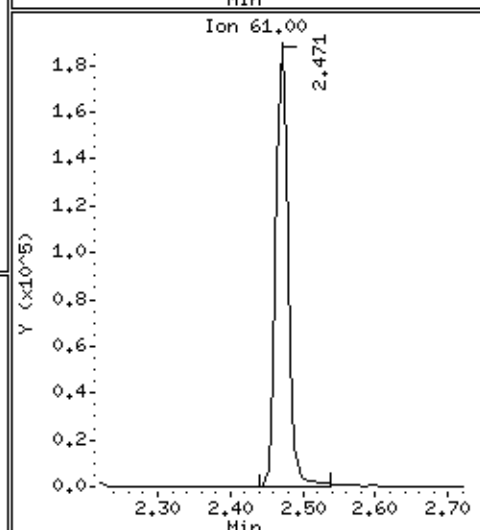
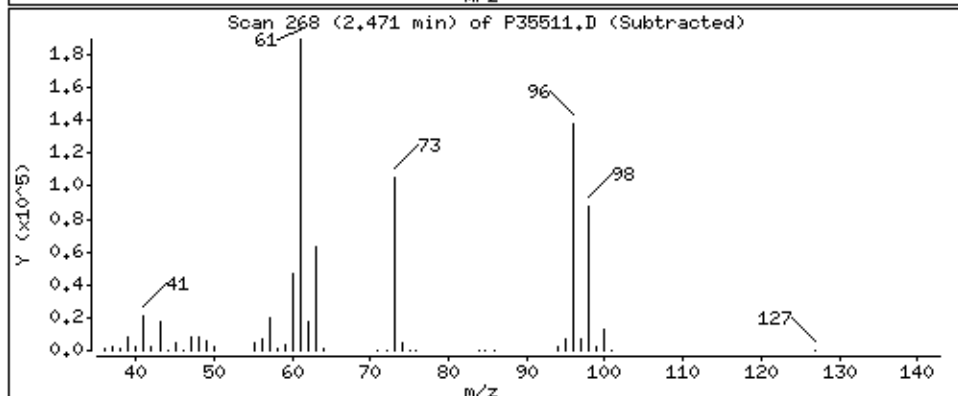
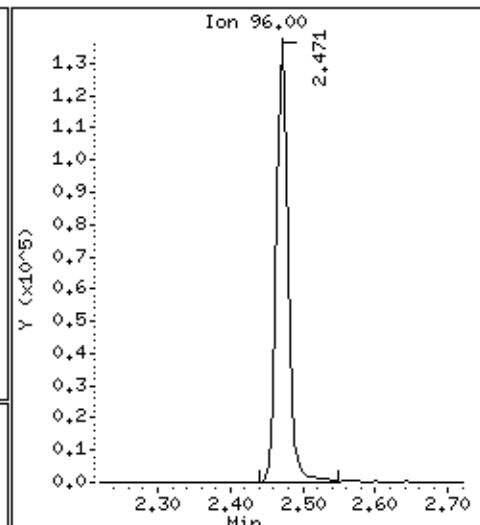
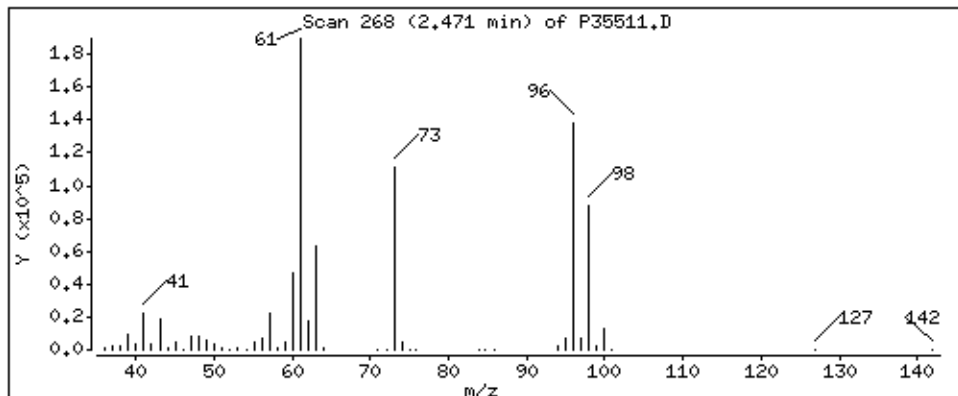
Column phase: RTX-624

Column diameter: 0,18

27 trans-1,2-Dichloroethene

Concentration: 47,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

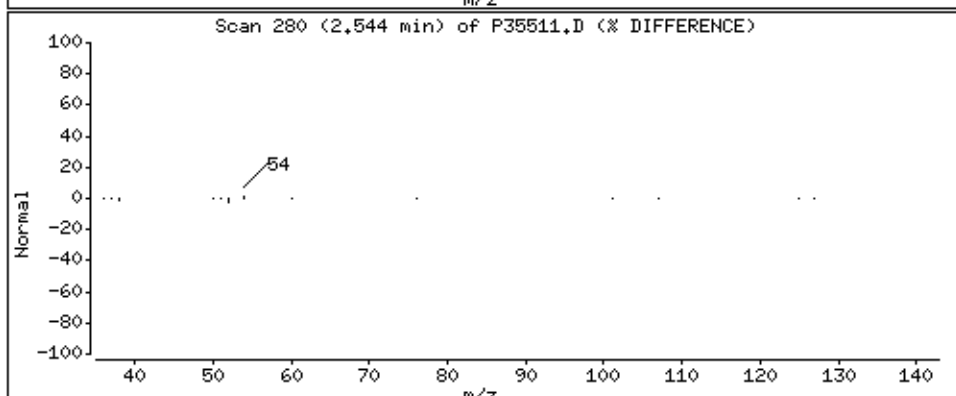
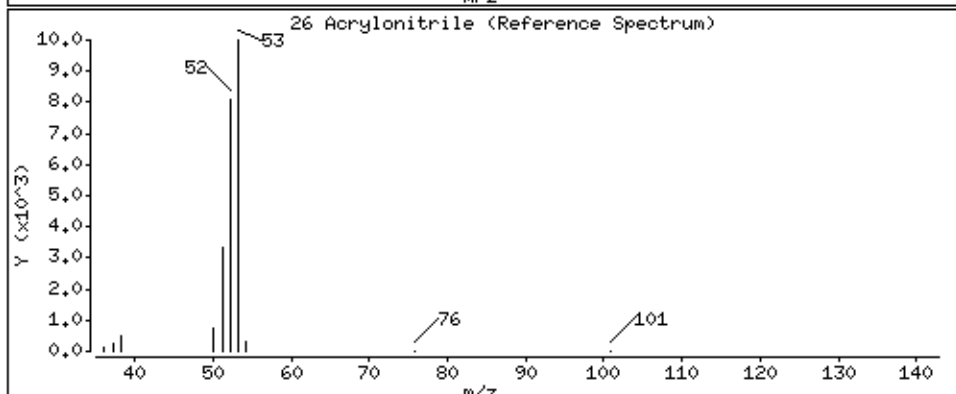
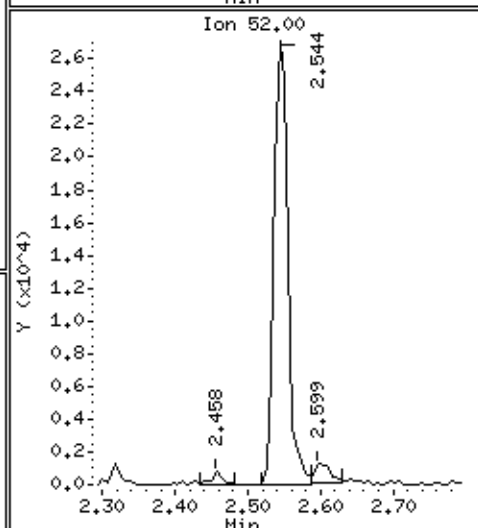
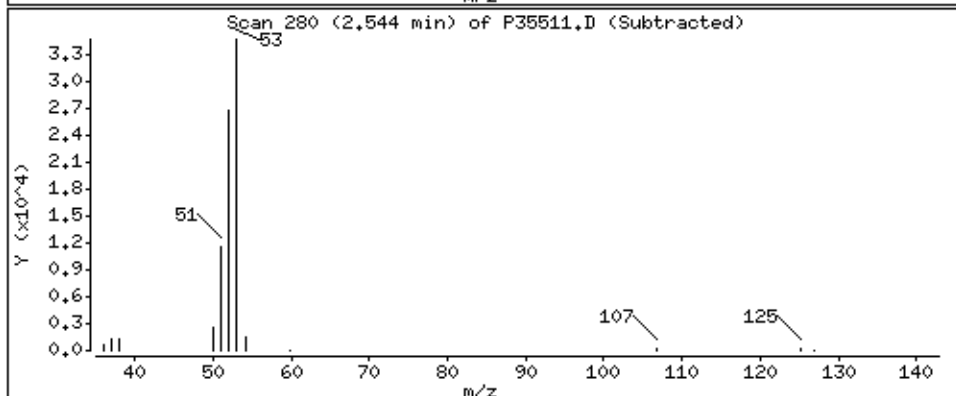
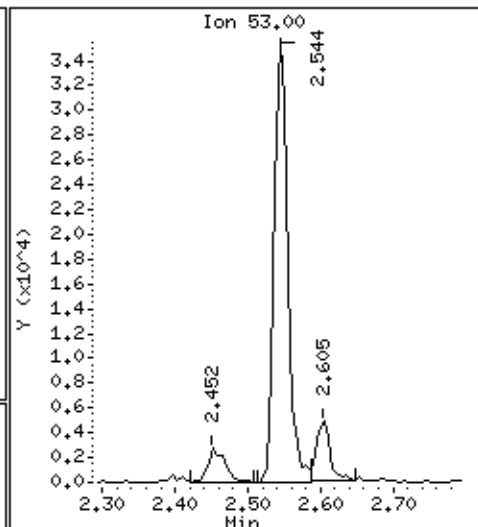
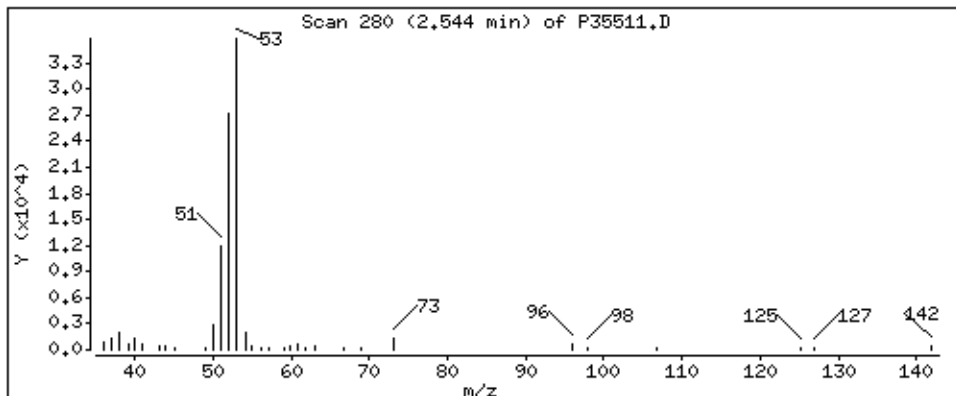
Column phase: RTX-624

Column diameter: 0,18

26 Acrylonitrile

Concentration: 44,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

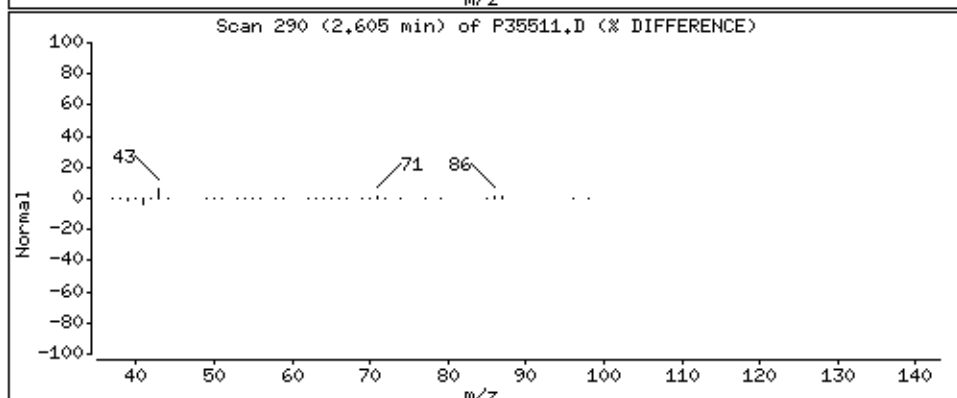
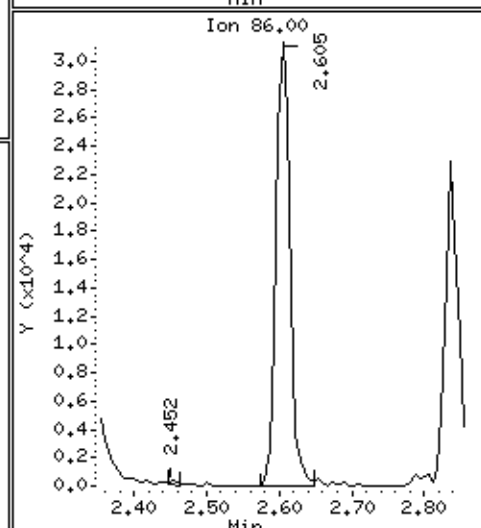
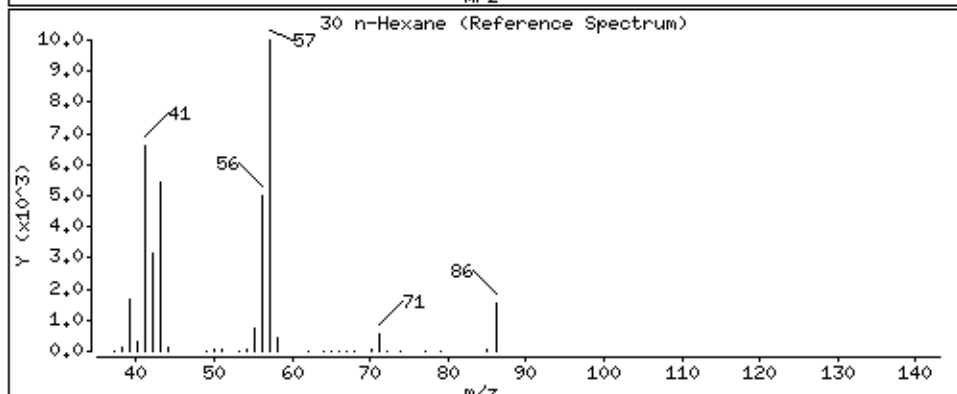
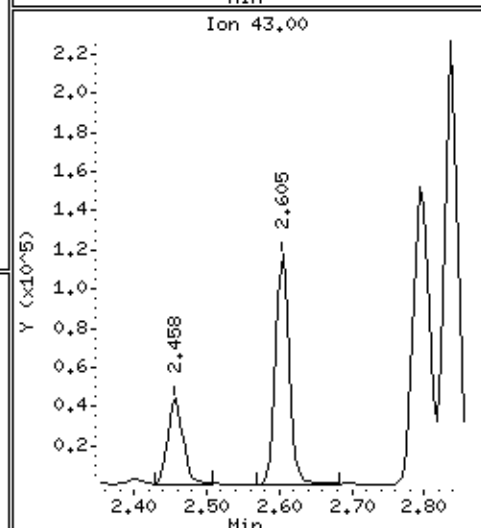
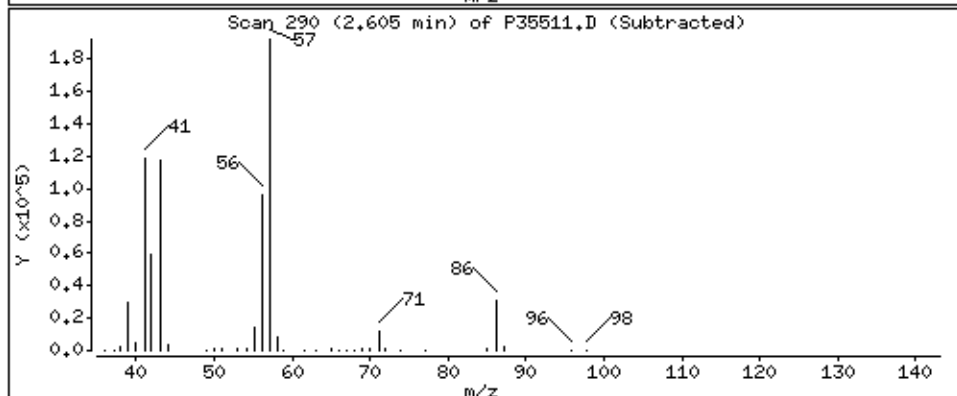
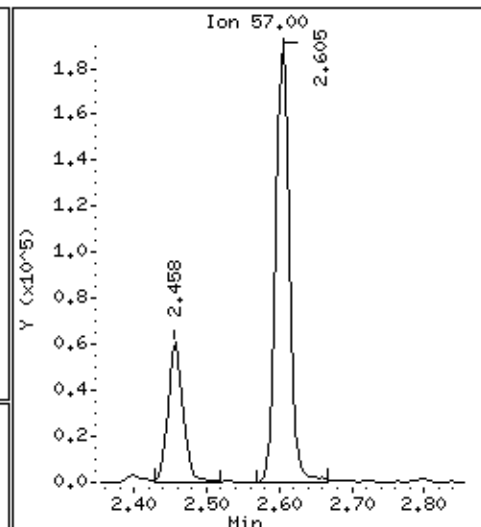
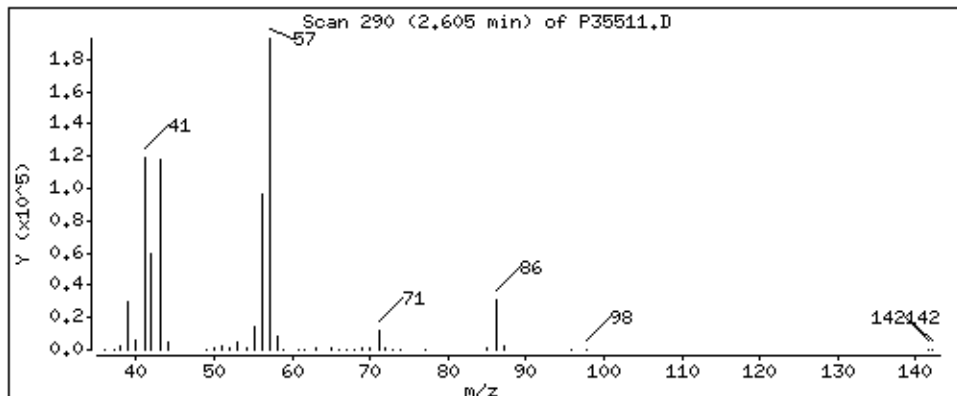
Column phase: RTX-624

Column diameter: 0.18

30 n-Hexane

Concentration: 43.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

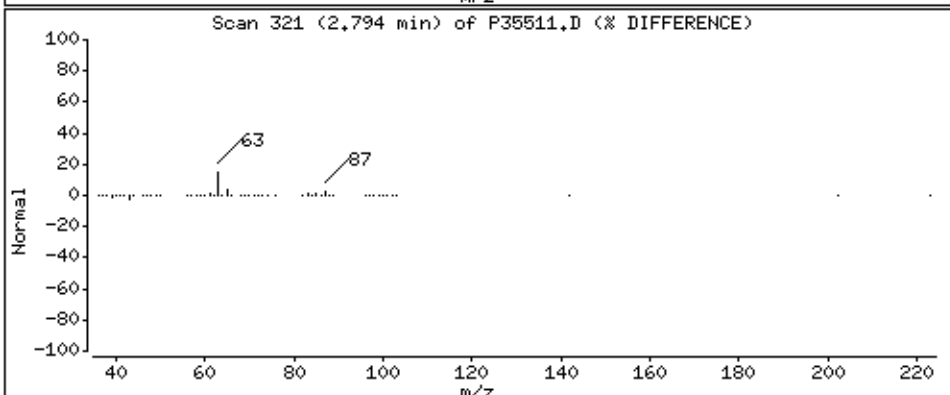
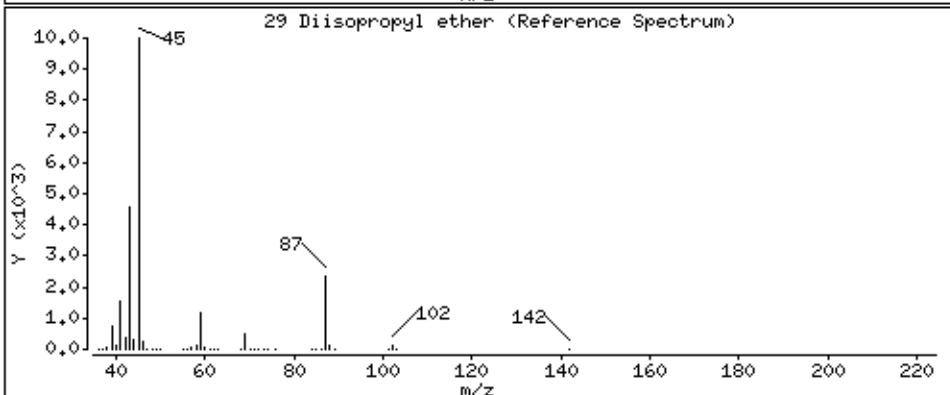
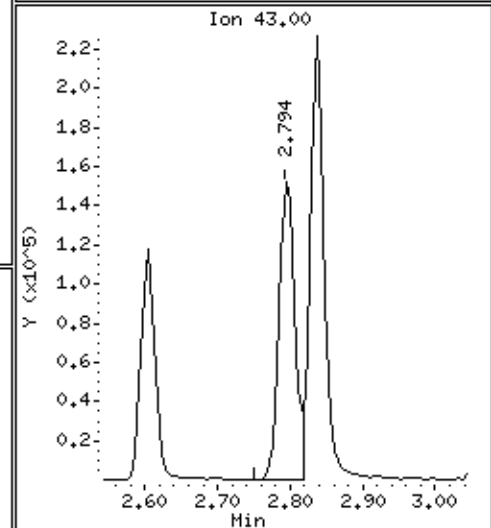
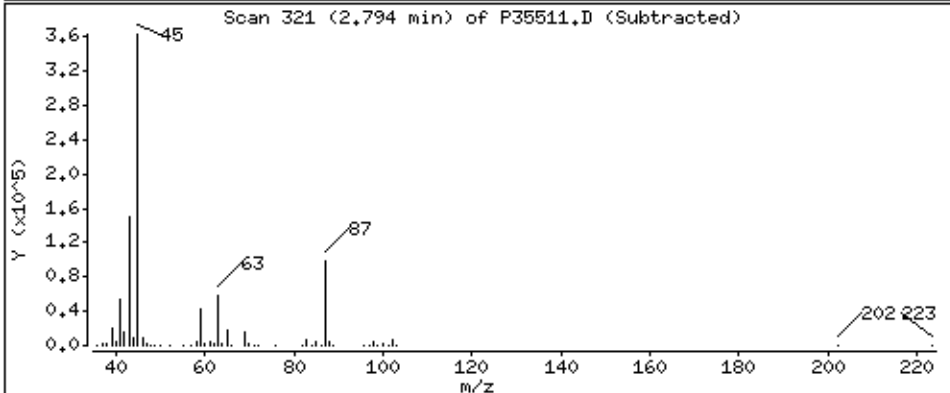
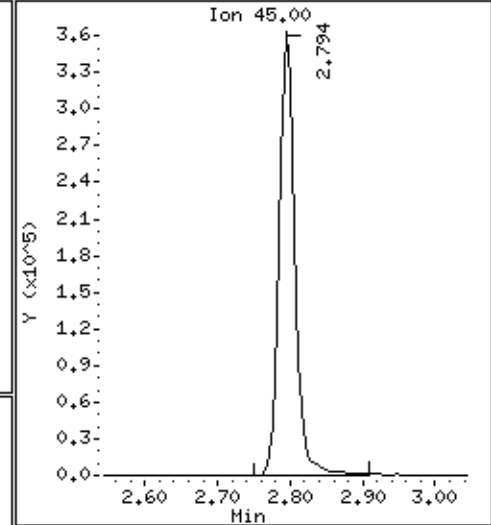
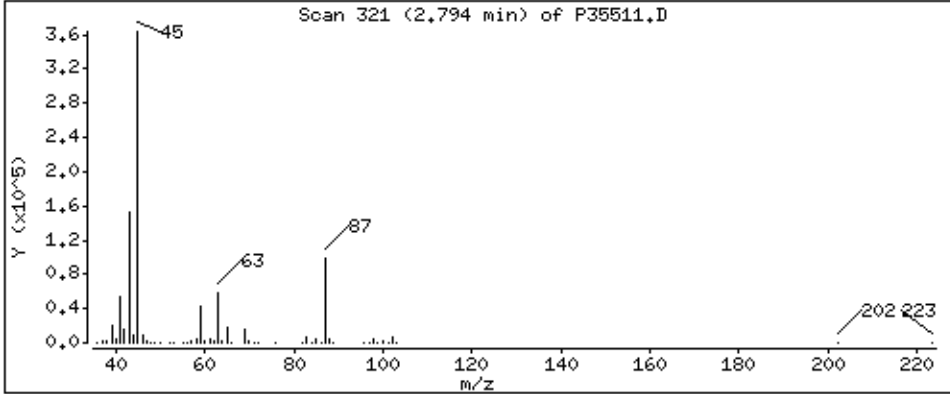
Column phase: RTX-624

Column diameter: 0,18

29 Diisopropyl ether

Concentration: 46,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

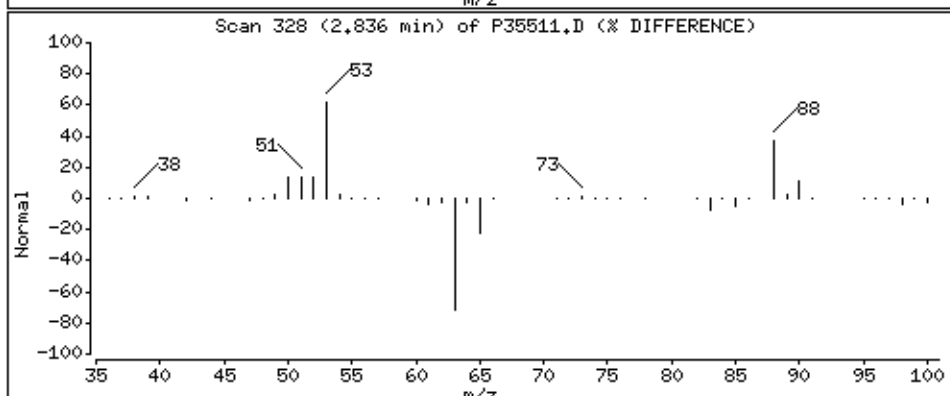
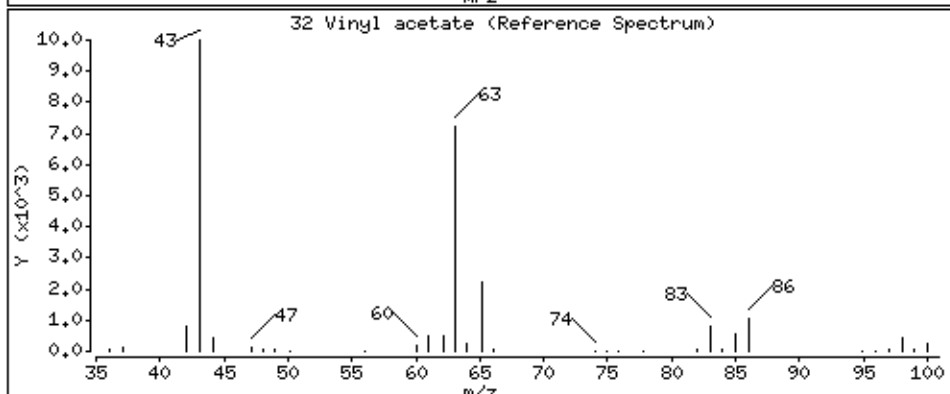
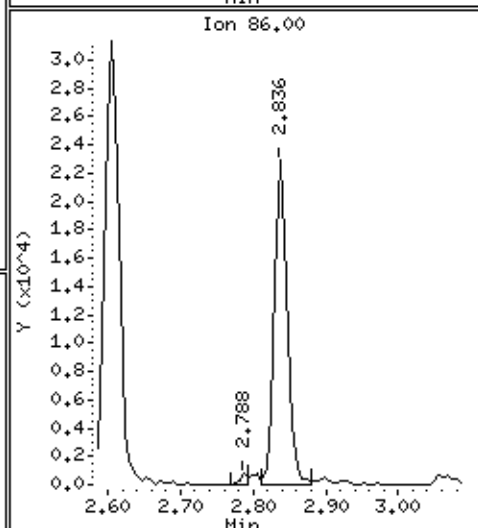
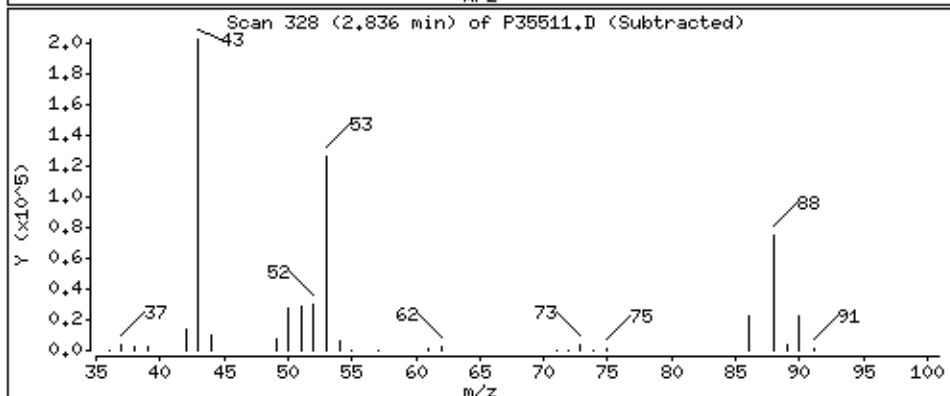
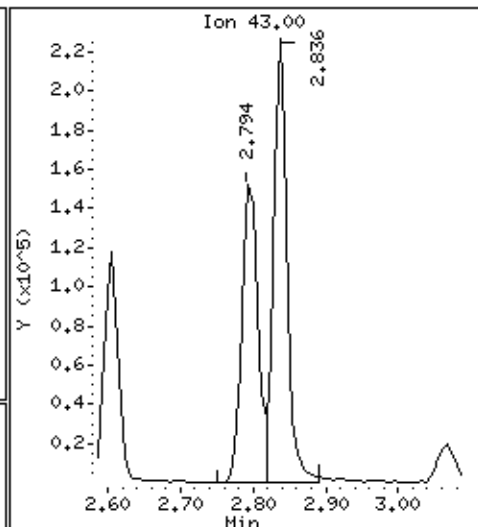
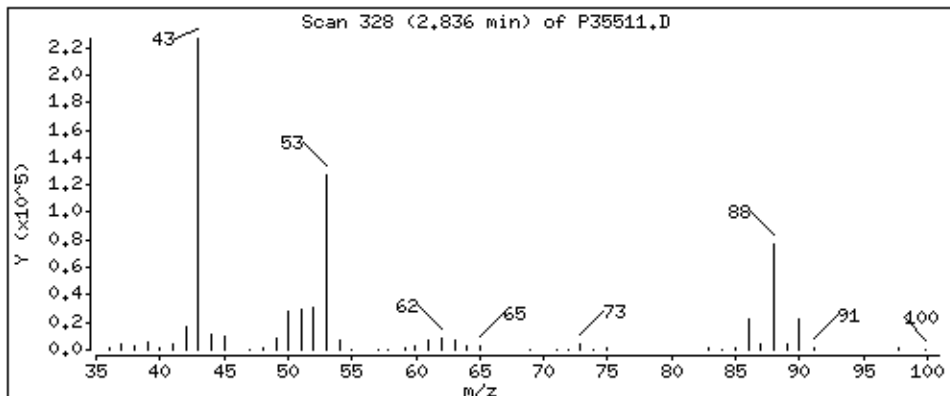
Column phase: RTX-624

Column diameter: 0,18

32 Vinyl acetate

Concentration: 42.0 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

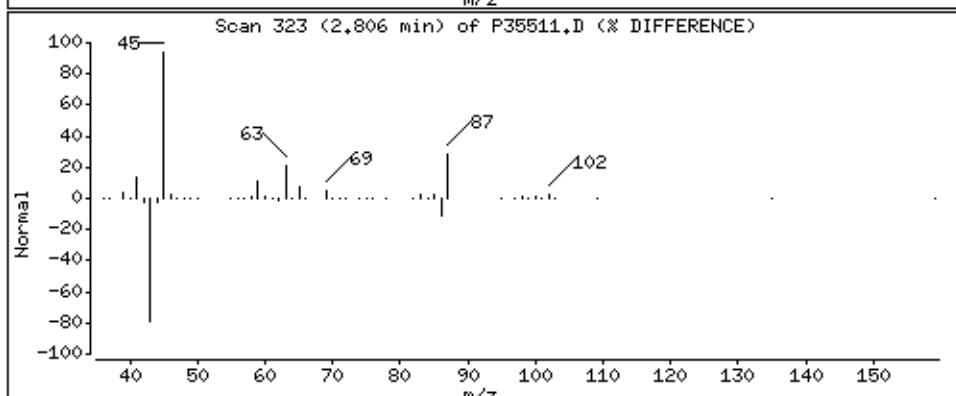
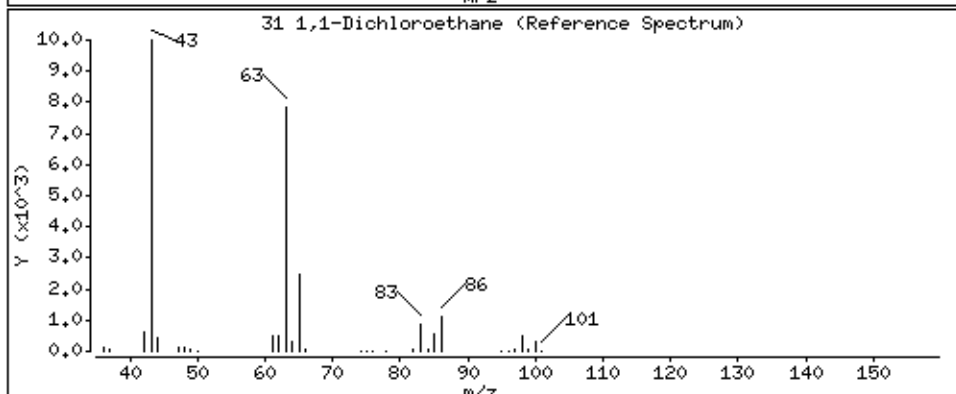
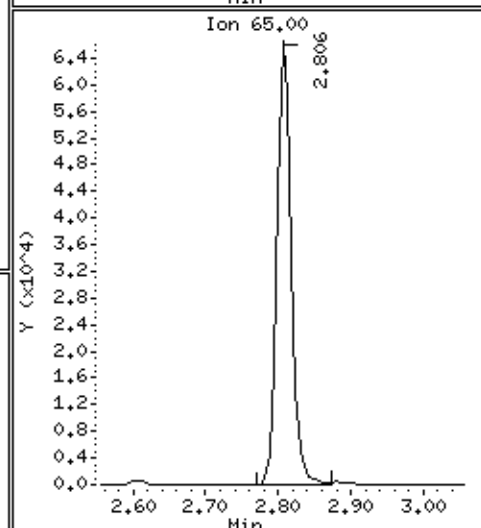
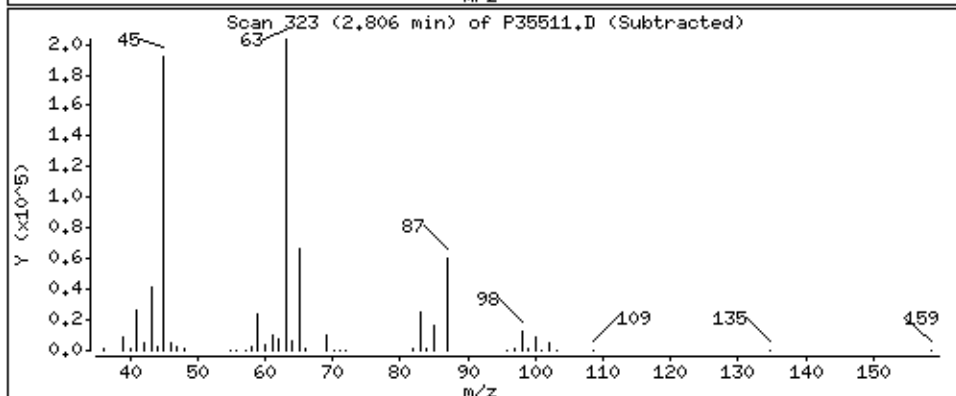
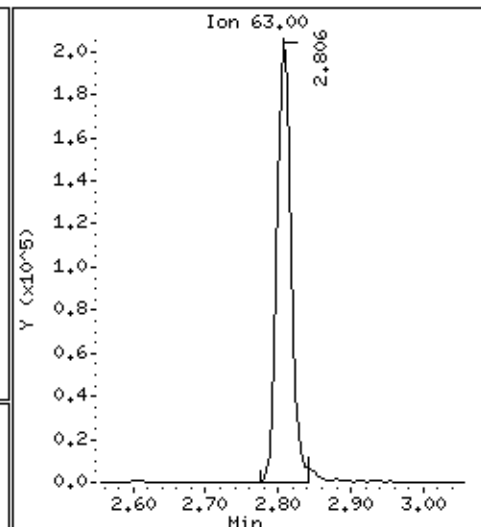
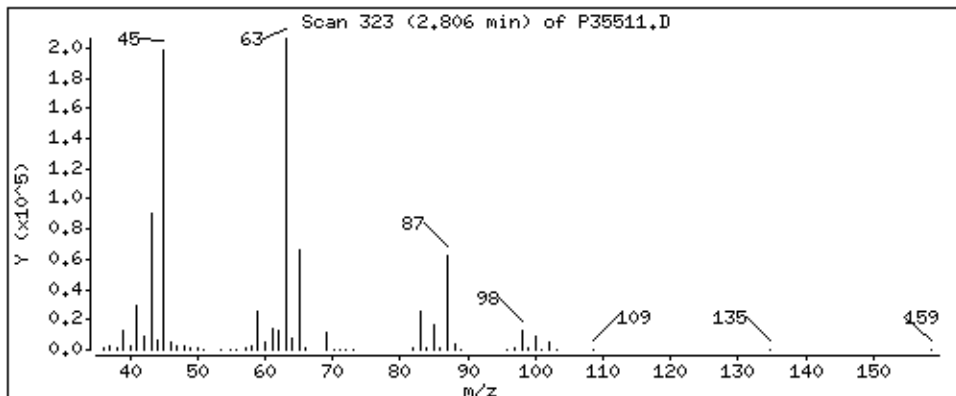
Column phase: RTX-624

Column diameter: 0,18

31 1,1-Dichloroethane

Concentration: 44,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

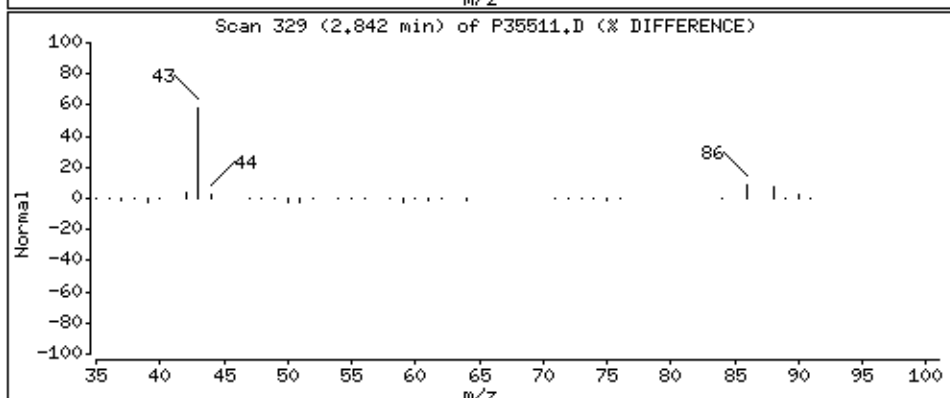
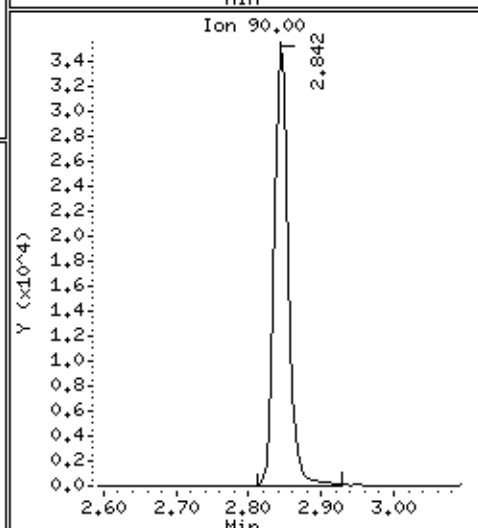
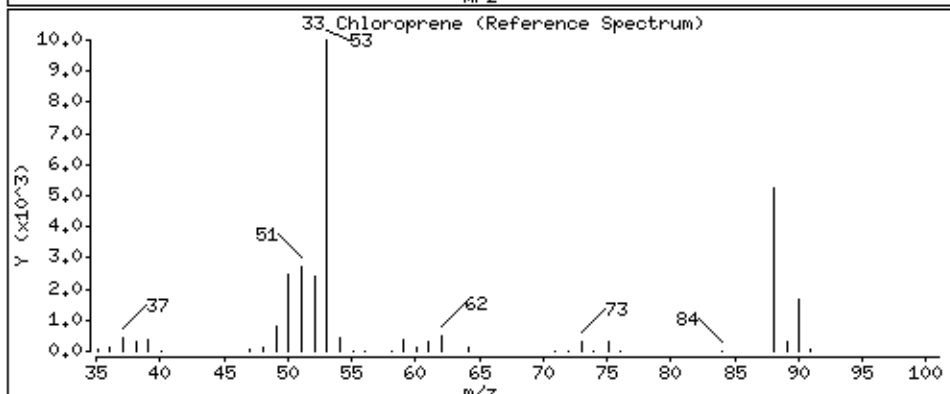
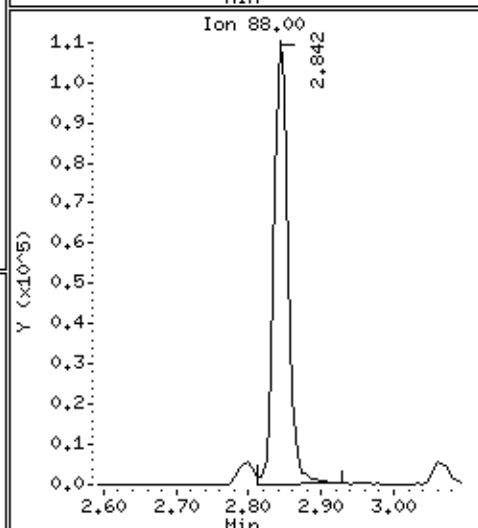
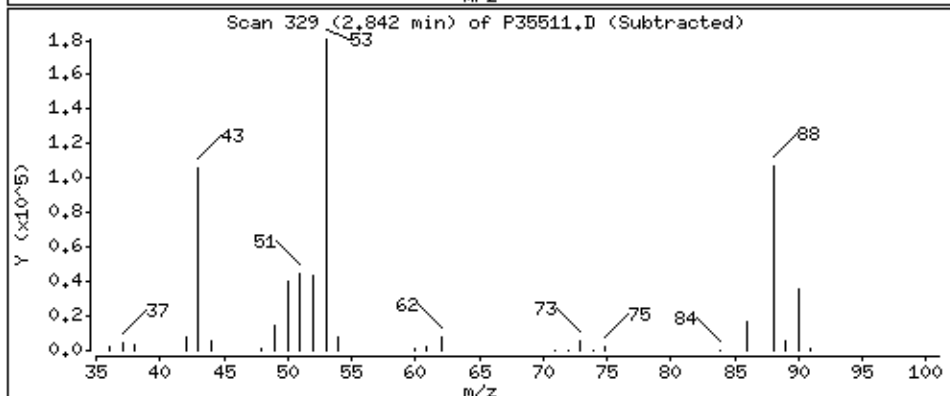
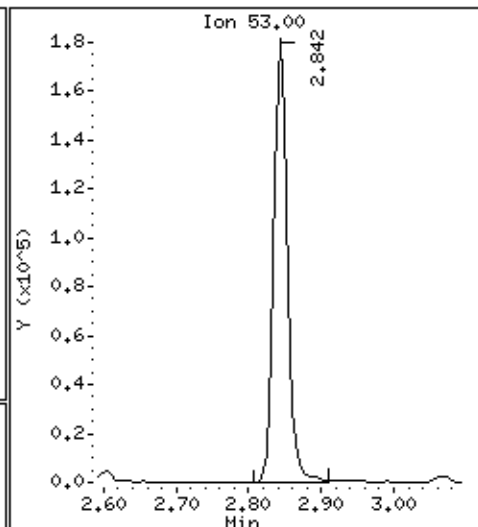
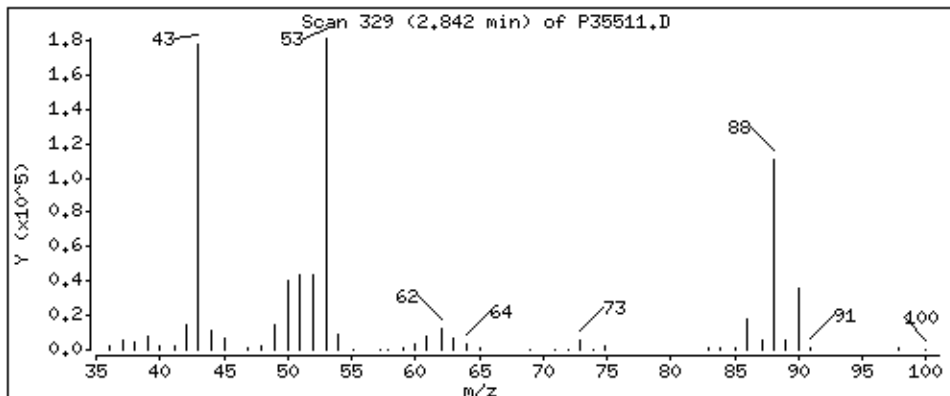
Column phase: RTX-624

Column diameter: 0,18

33 Chloroprene

Concentration: 50,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

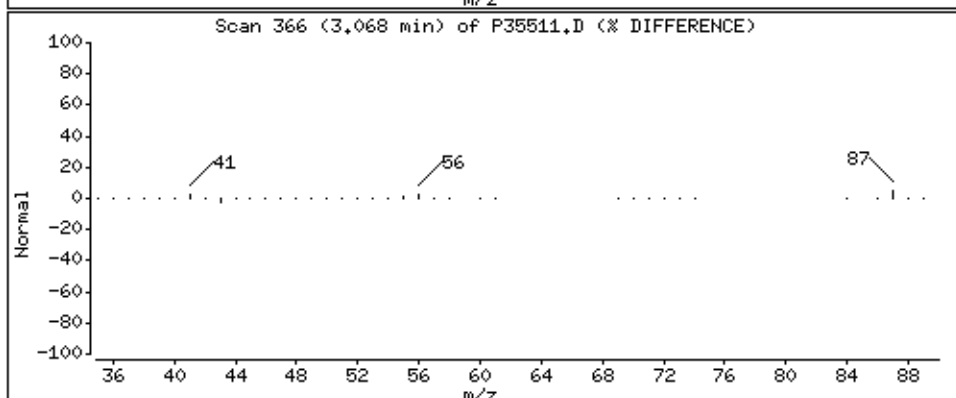
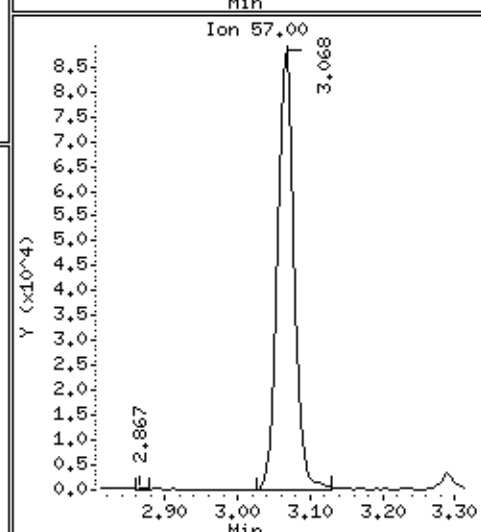
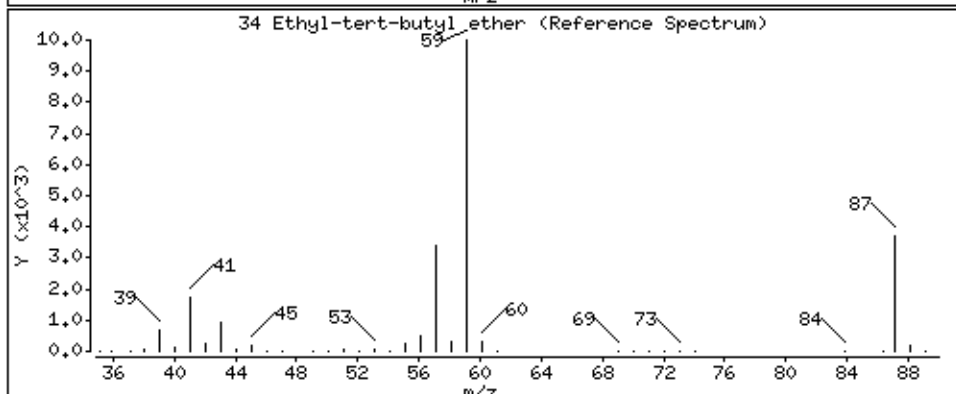
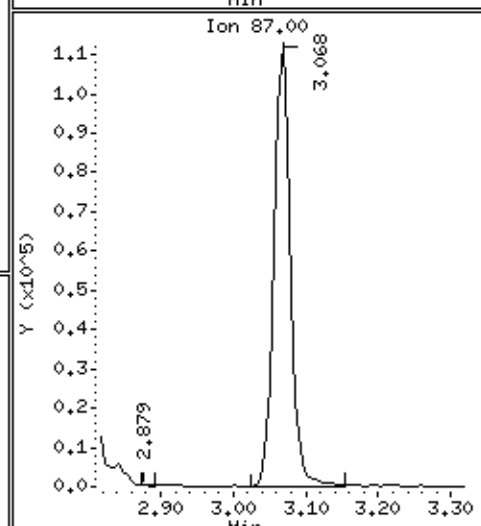
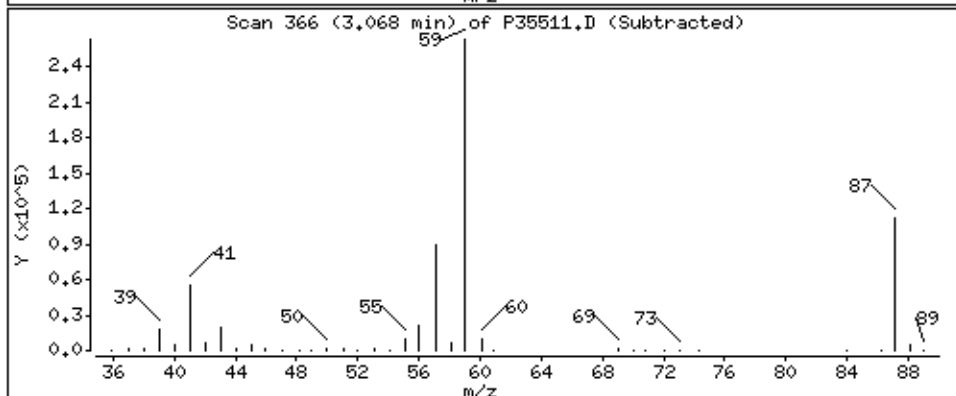
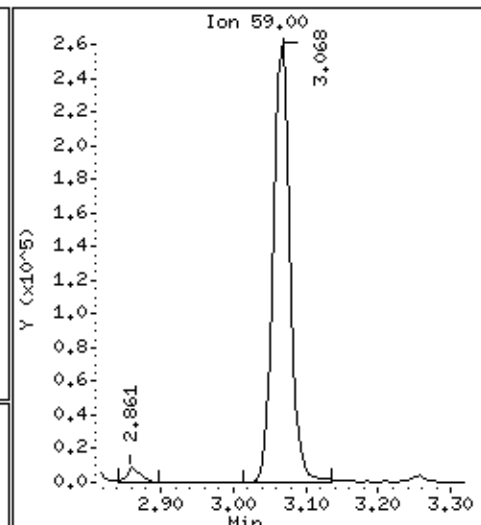
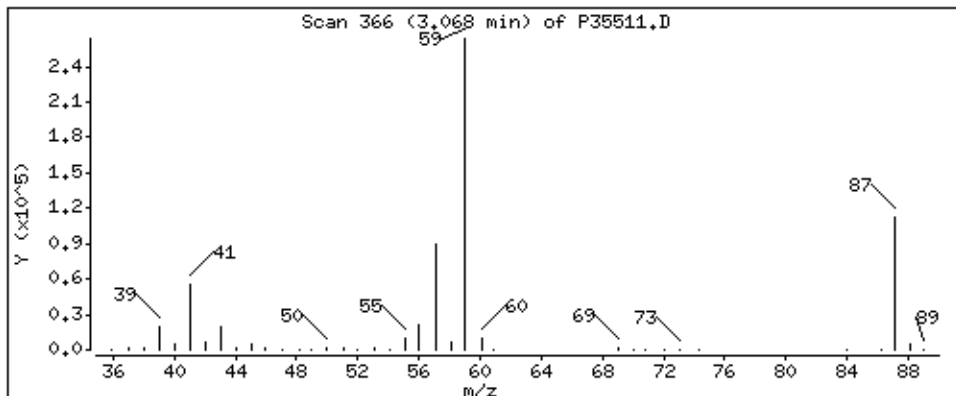
Column phase: RTX-624

Column diameter: 0,18

34 Ethyl-tert-butyl ether

Concentration: 40,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

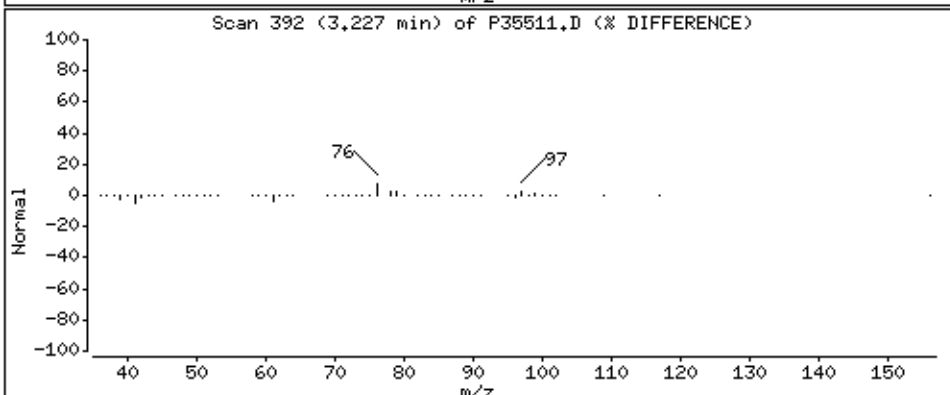
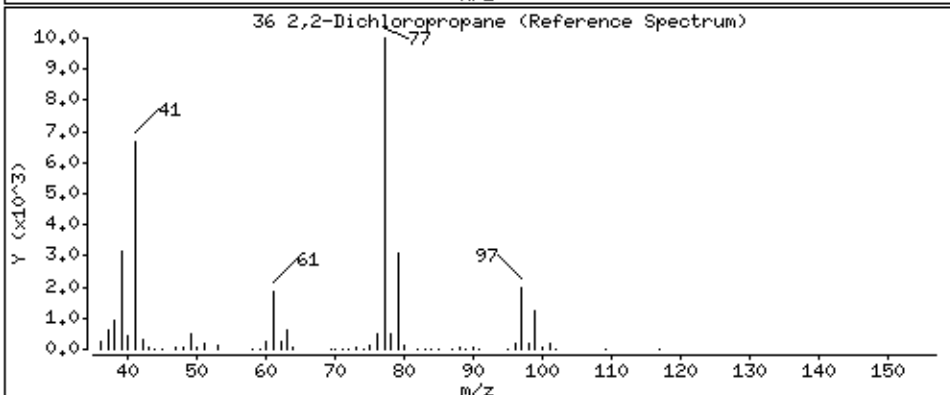
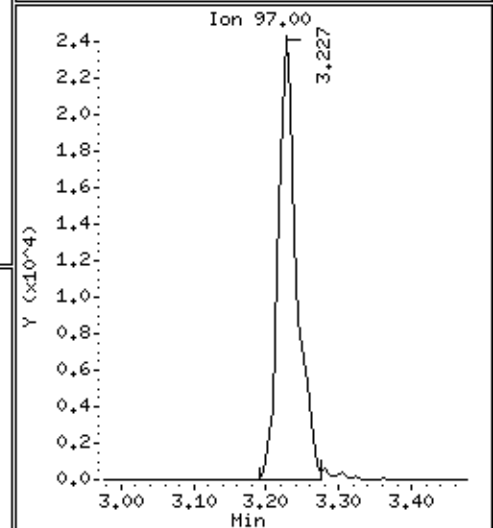
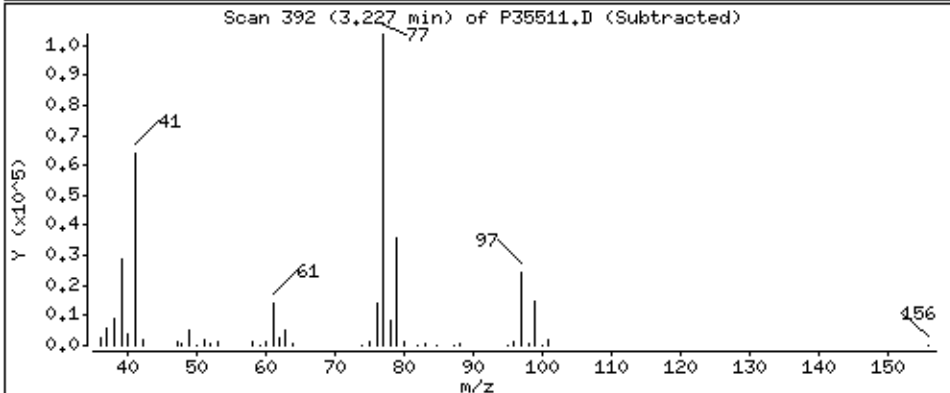
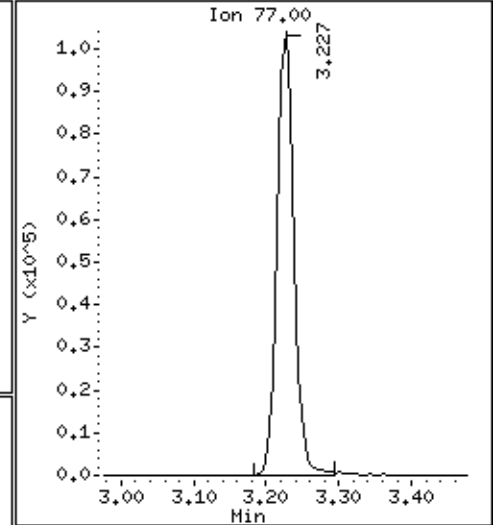
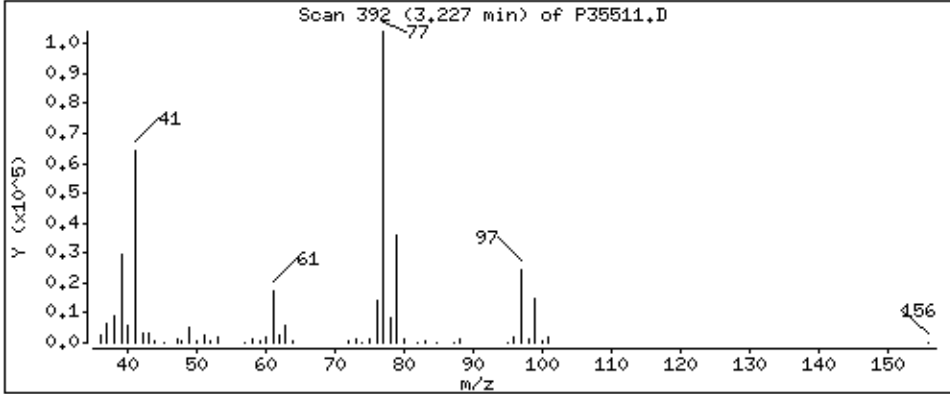
Column phase: RTX-624

Column diameter: 0,18

36 2,2-Dichloropropane

Concentration: 41.6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

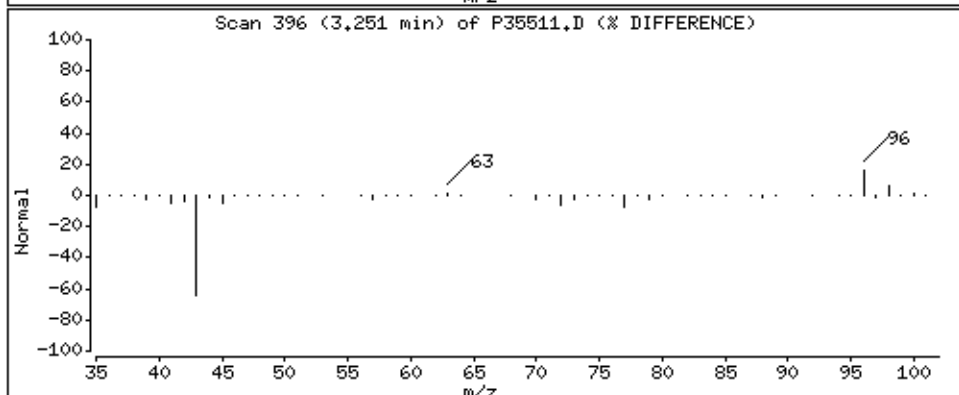
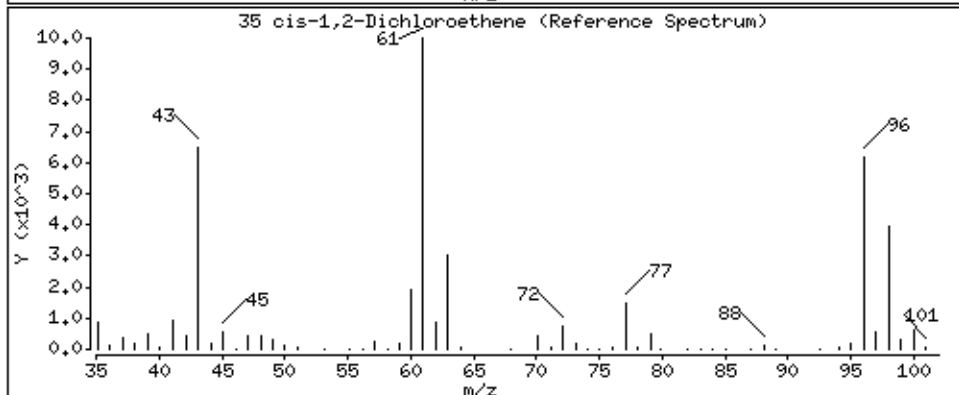
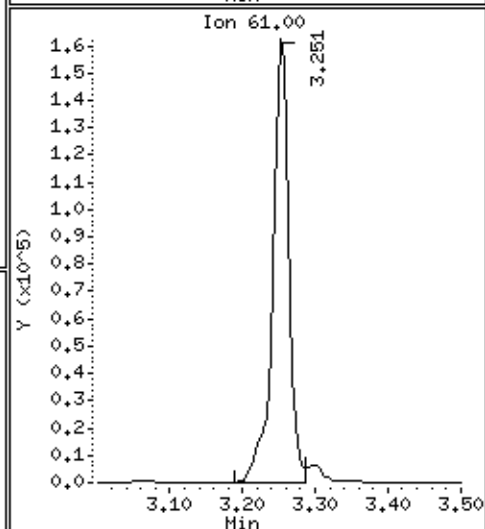
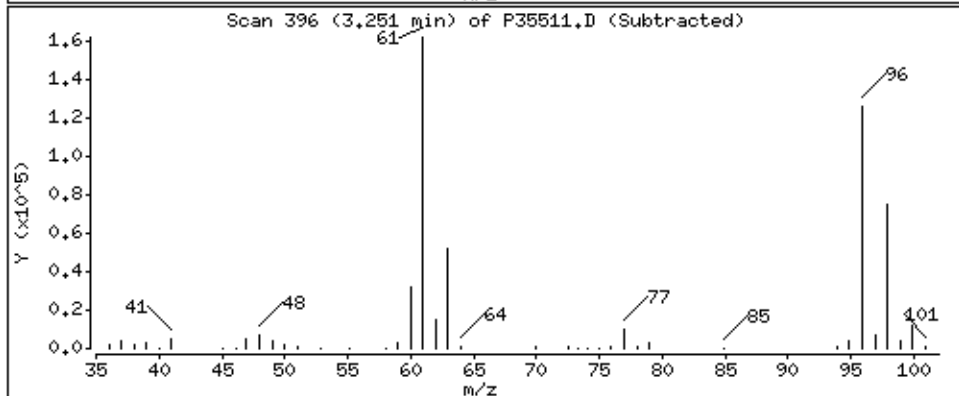
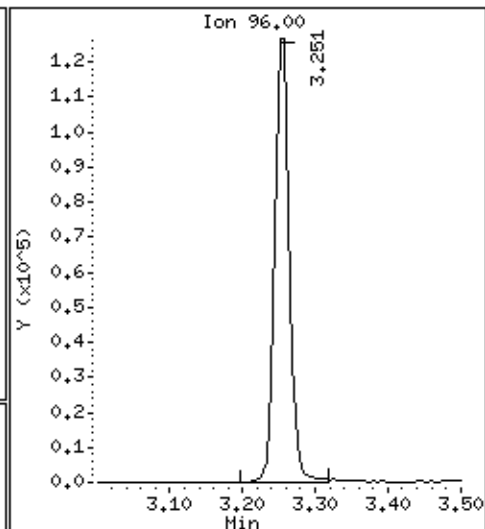
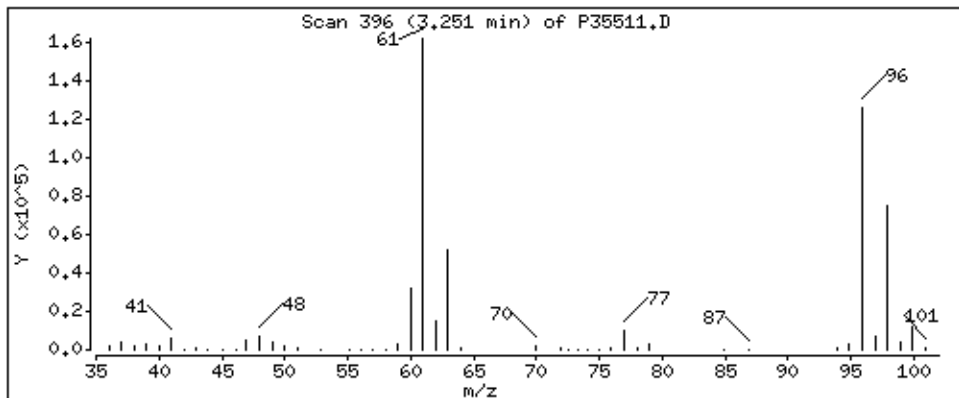
Column phase: RTX-624

Column diameter: 0,18

35 cis-1,2-Dichloroethene

Concentration: 49.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

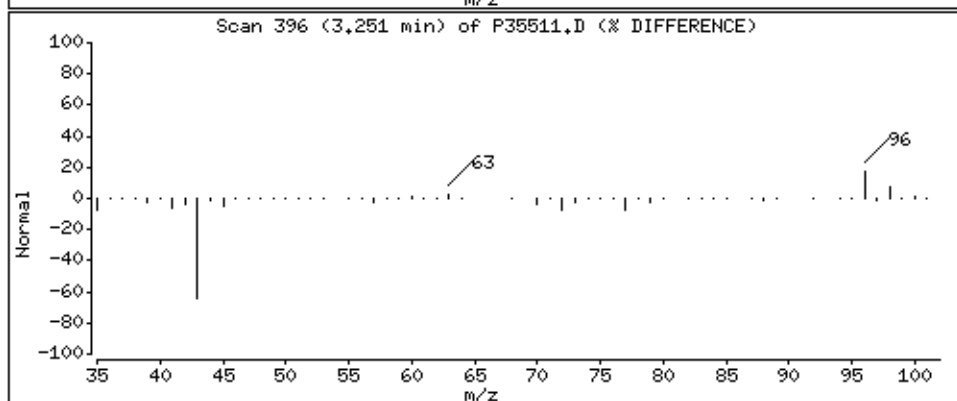
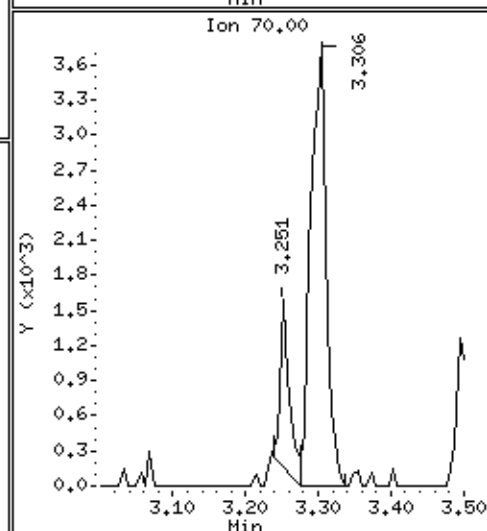
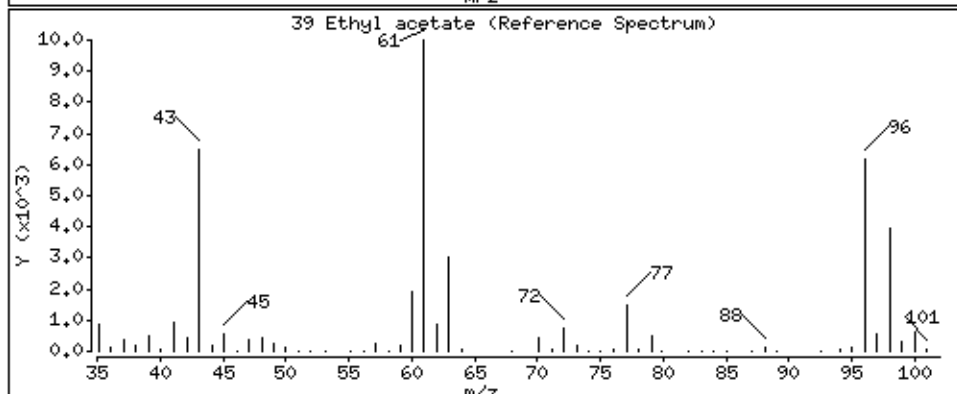
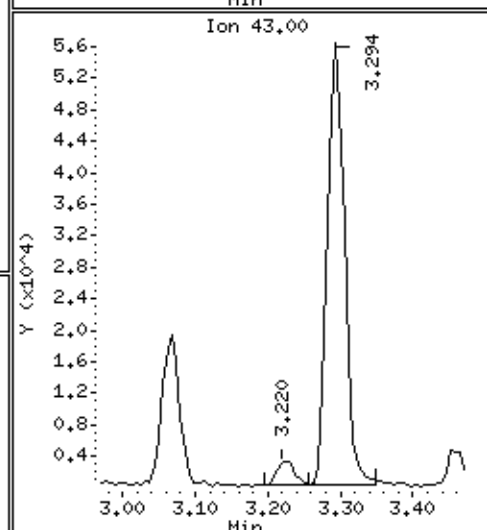
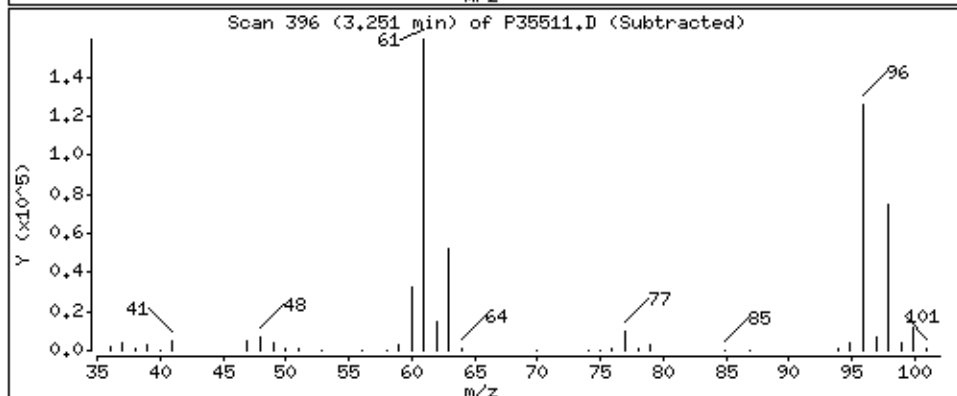
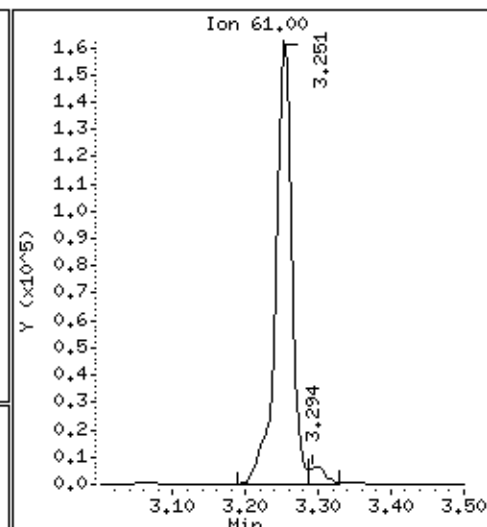
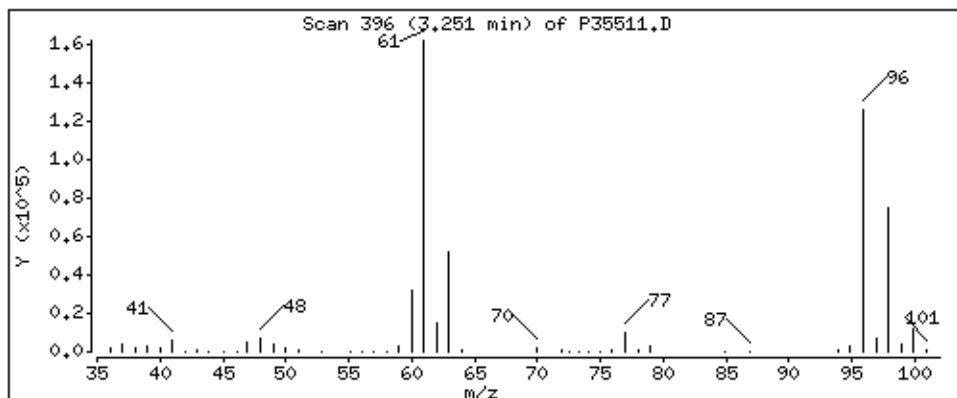
Column phase: RTX-624

Column diameter: 0.18

39 Ethyl acetate

Concentration: 44.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

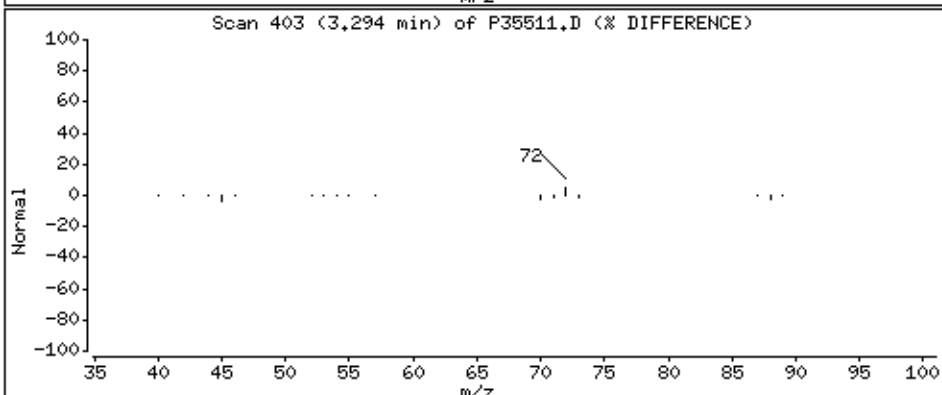
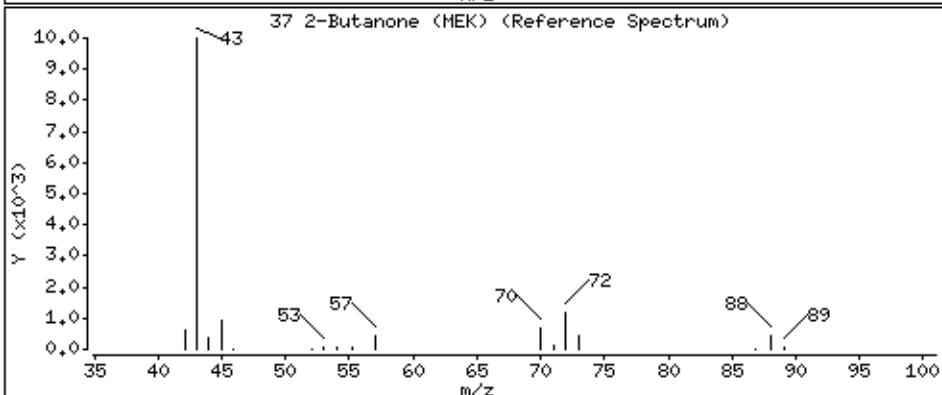
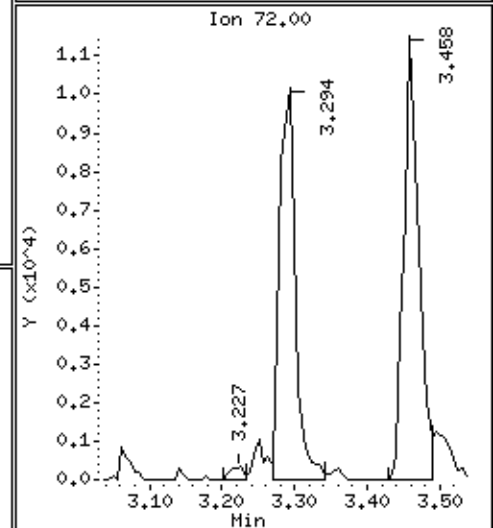
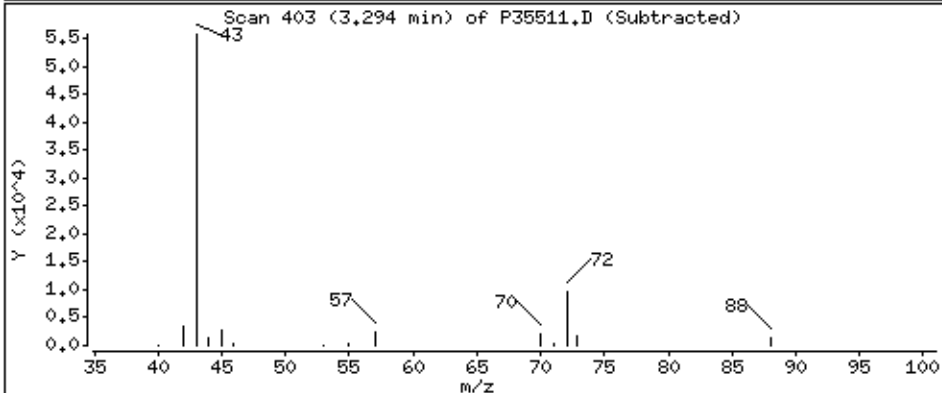
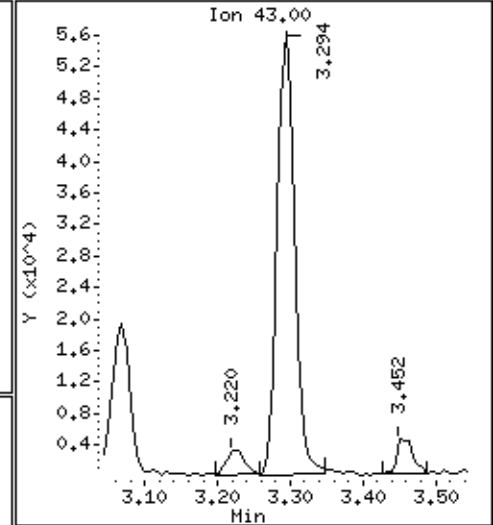
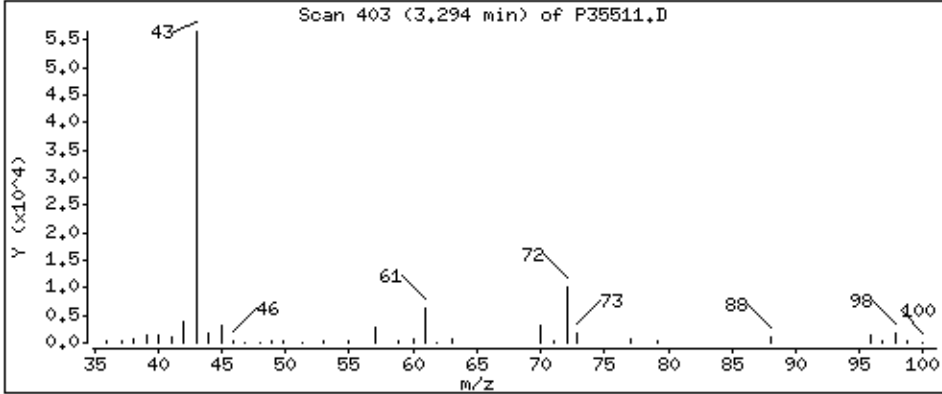
Column phase: RTX-624

Column diameter: 0,18

37 2-Butanone (MEK)

Concentration: 41.1 ug/L

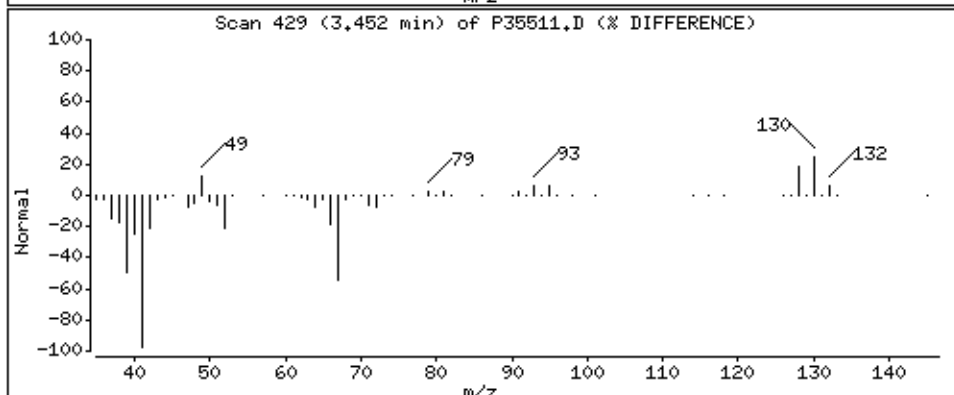
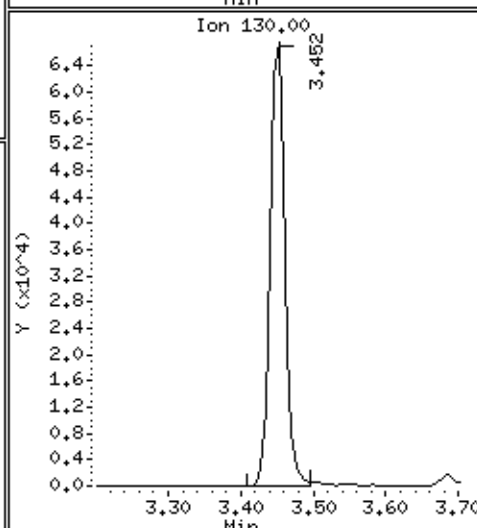
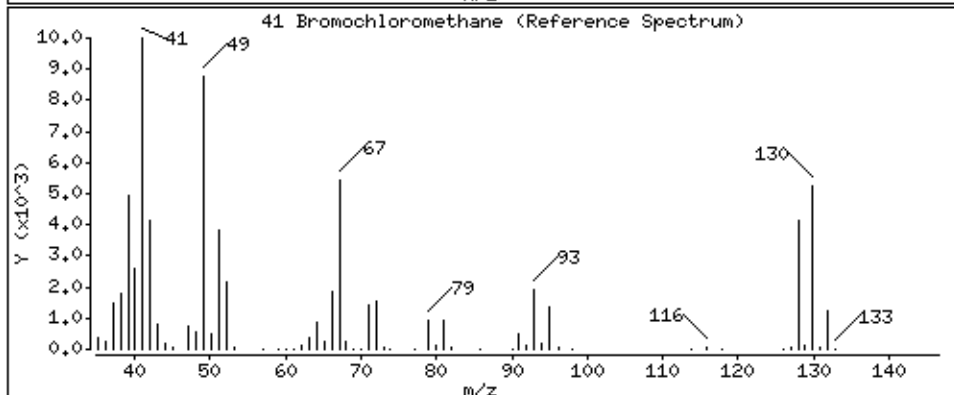
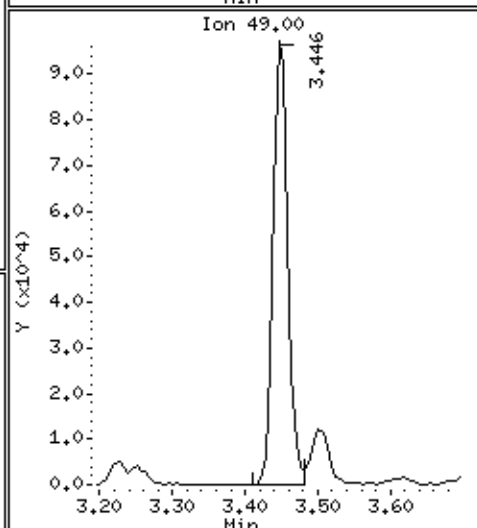
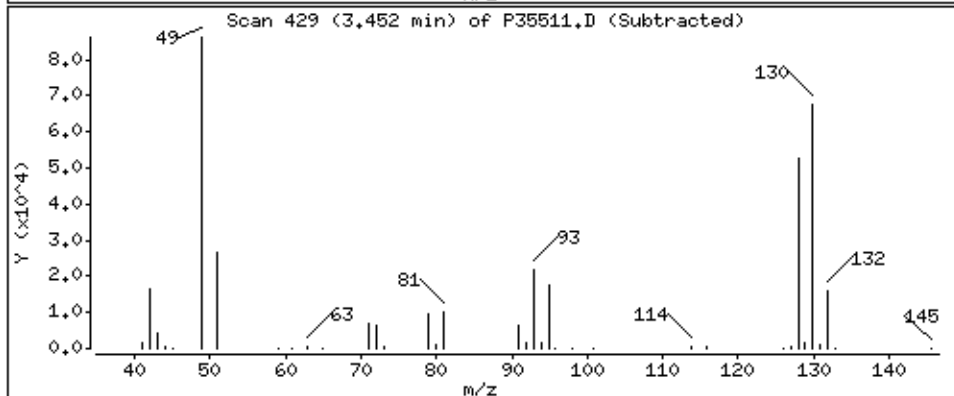
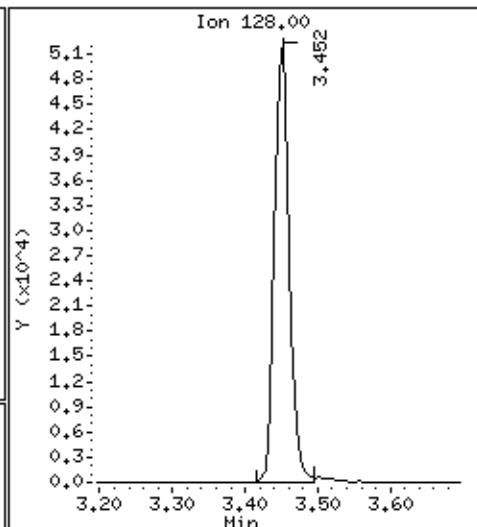
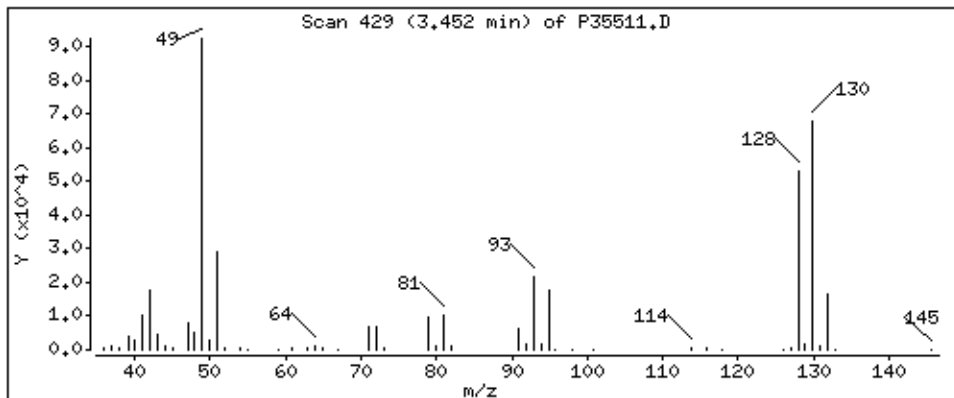
Review Code:



41 Bromochloromethane

Concentration: 47,3 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

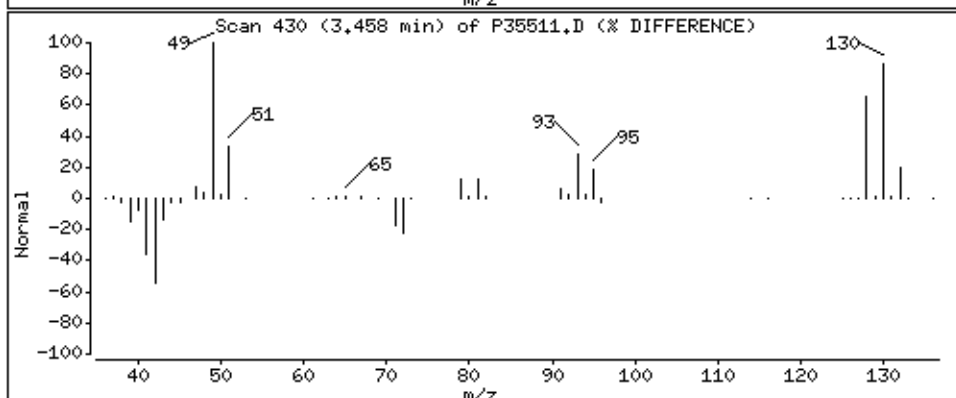
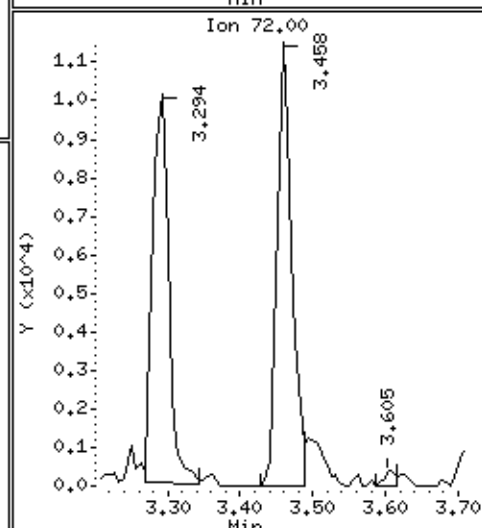
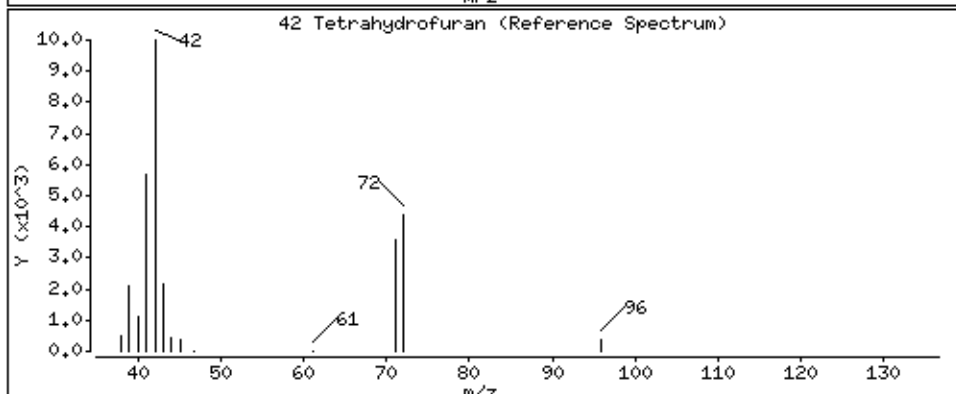
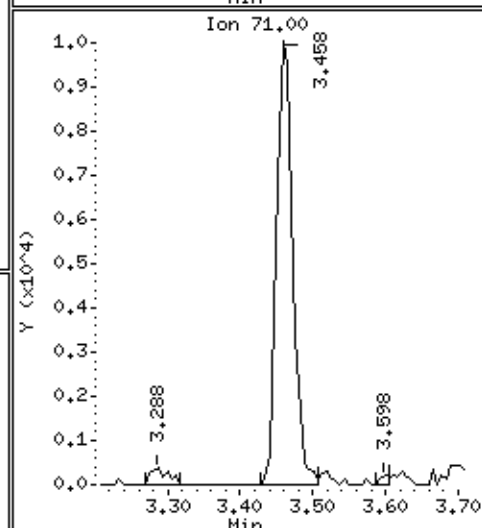
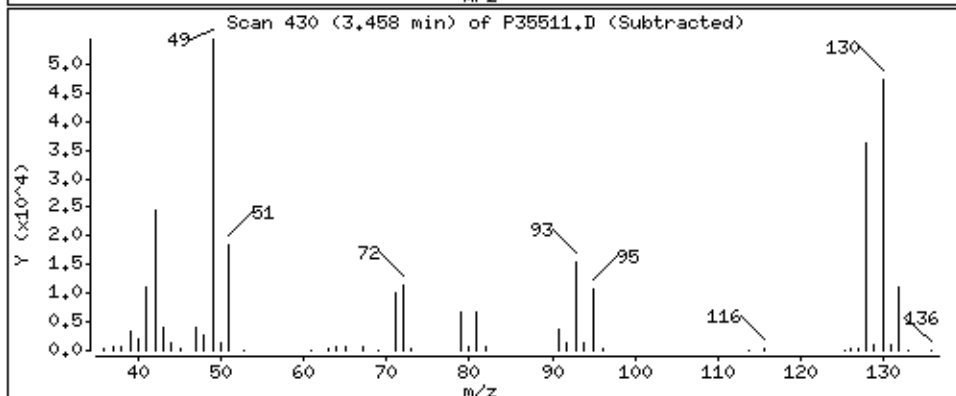
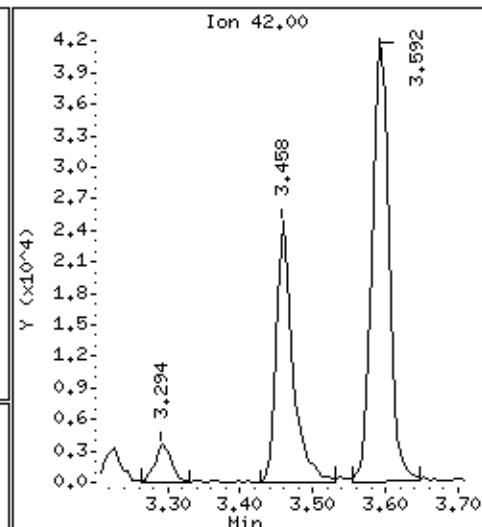
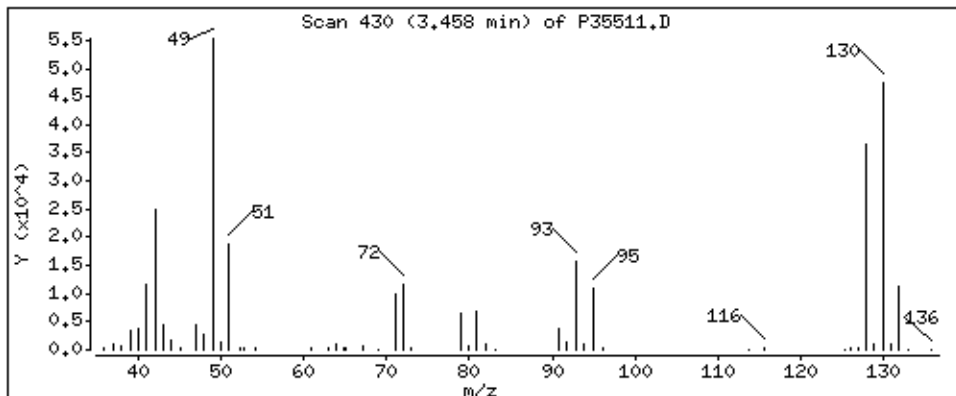
Column phase: RTX-624

Column diameter: 0,18

42 Tetrahydrofuran

Concentration: 38,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

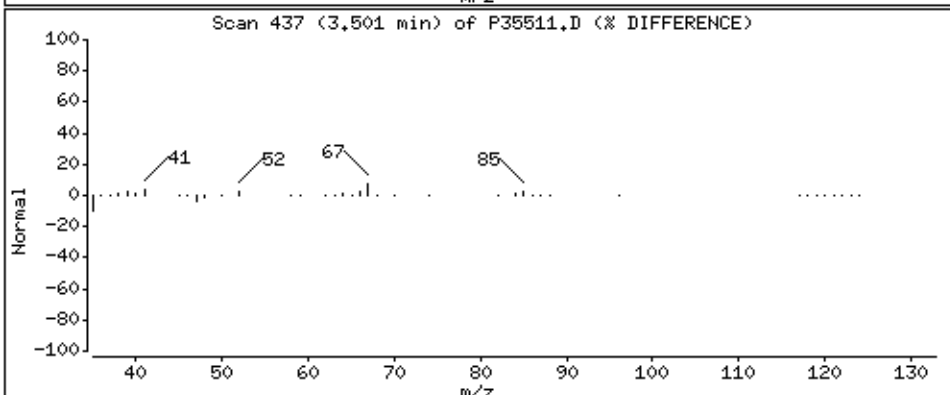
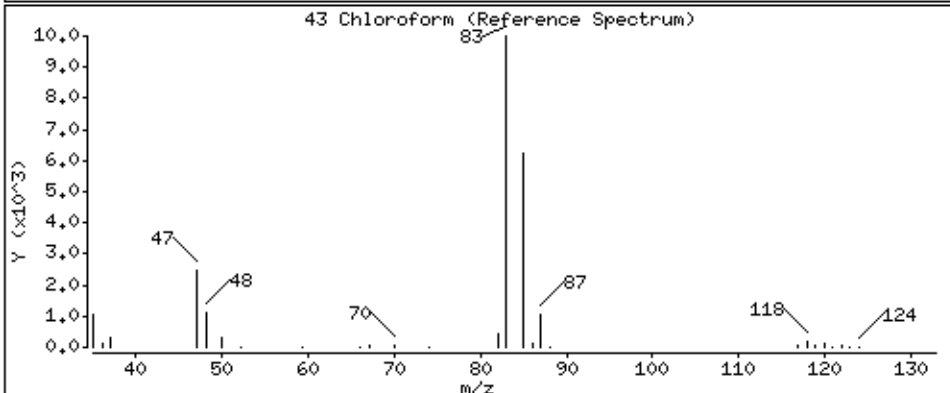
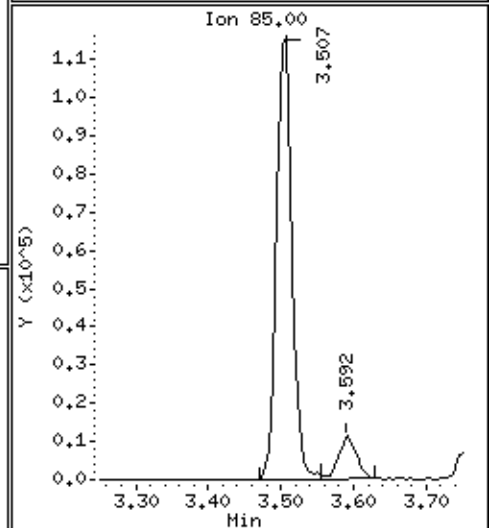
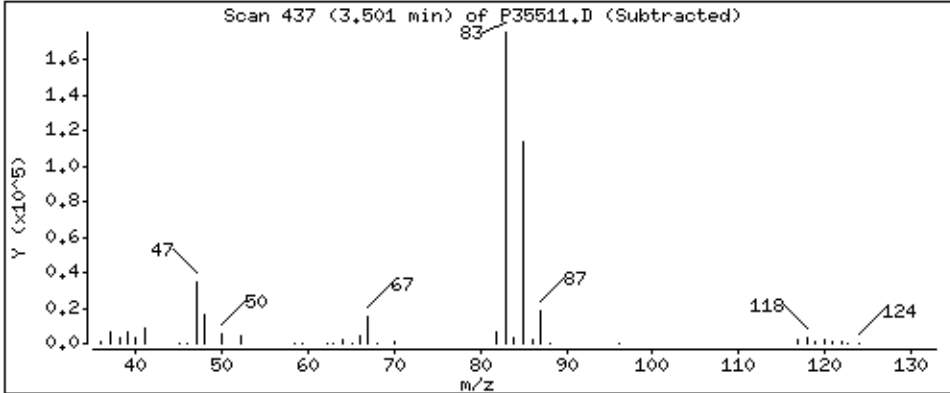
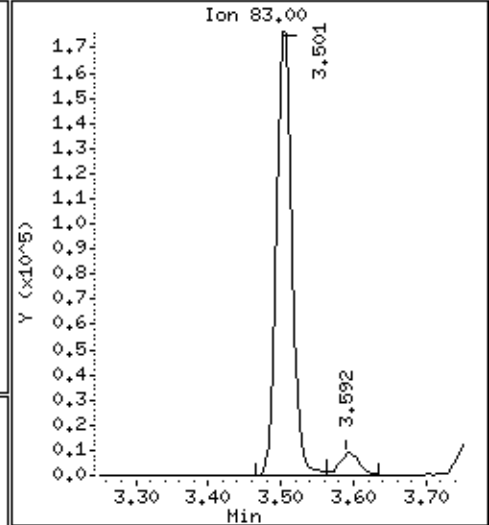
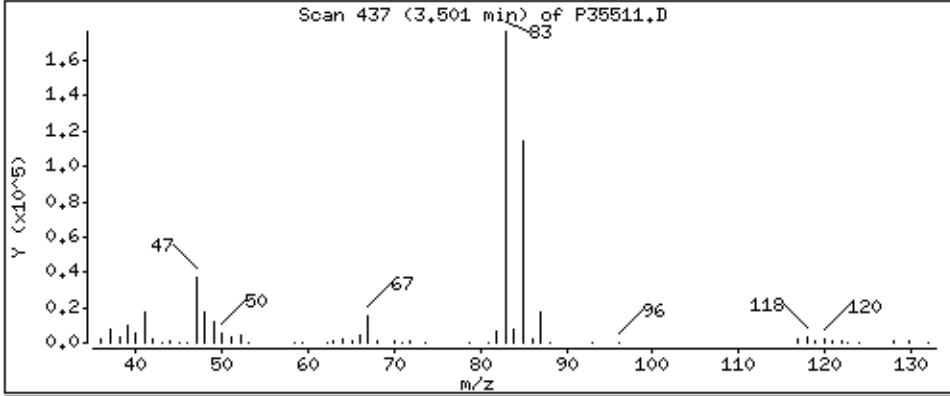
Column phase: RTX-624

Column diameter: 0,18

43 Chloroform

Concentration: 46,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

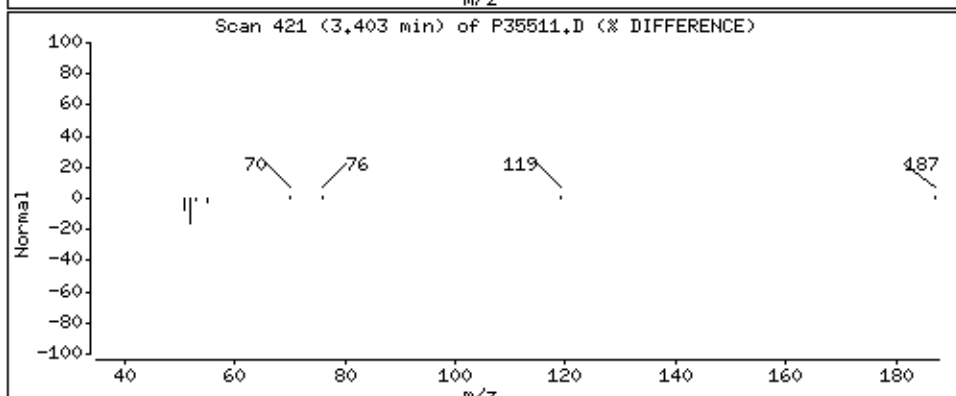
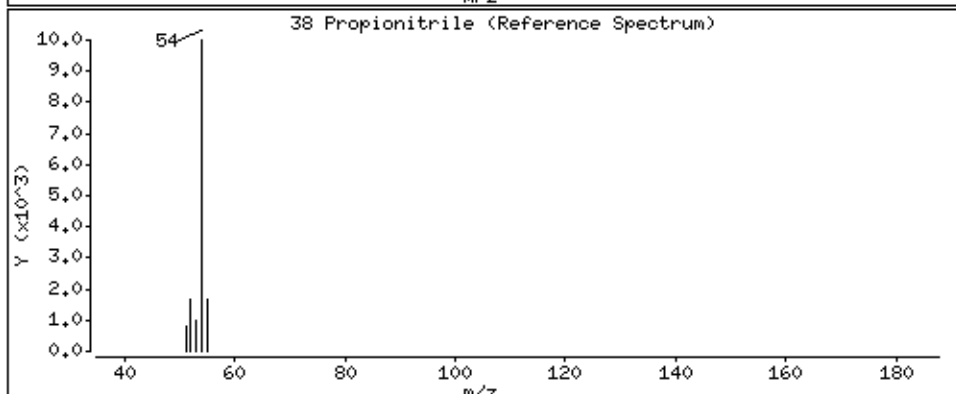
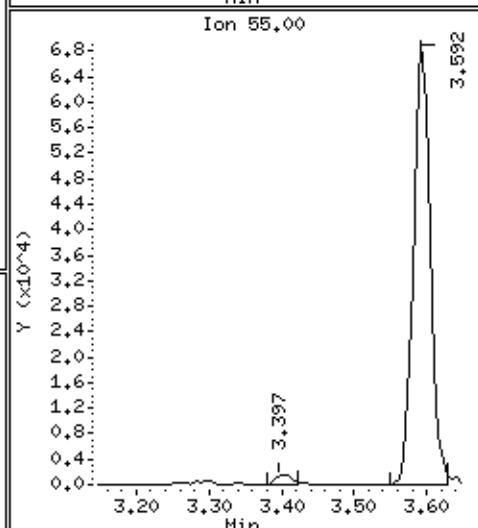
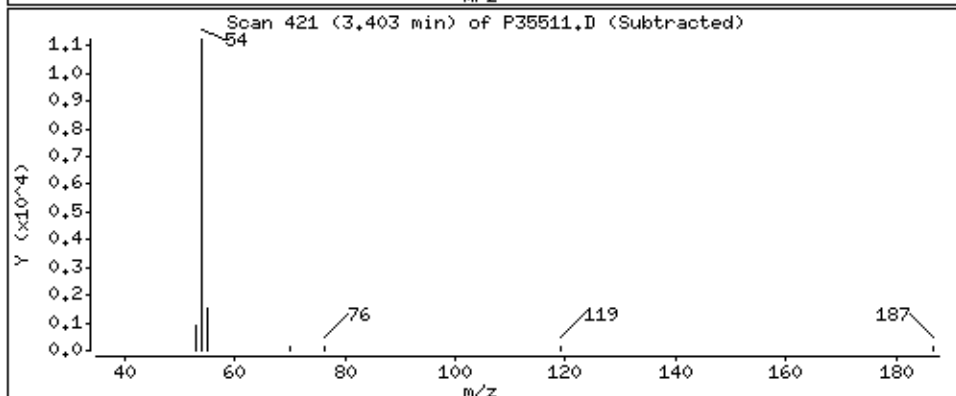
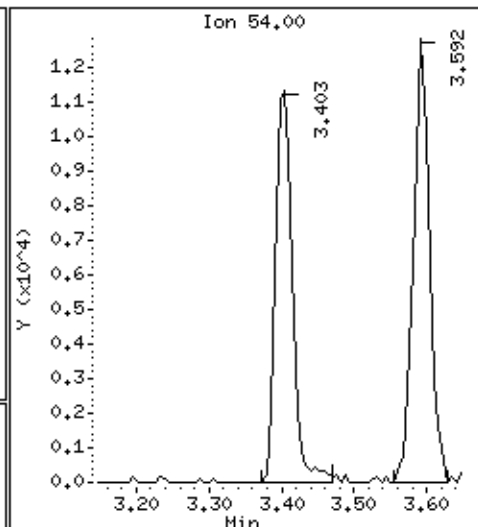
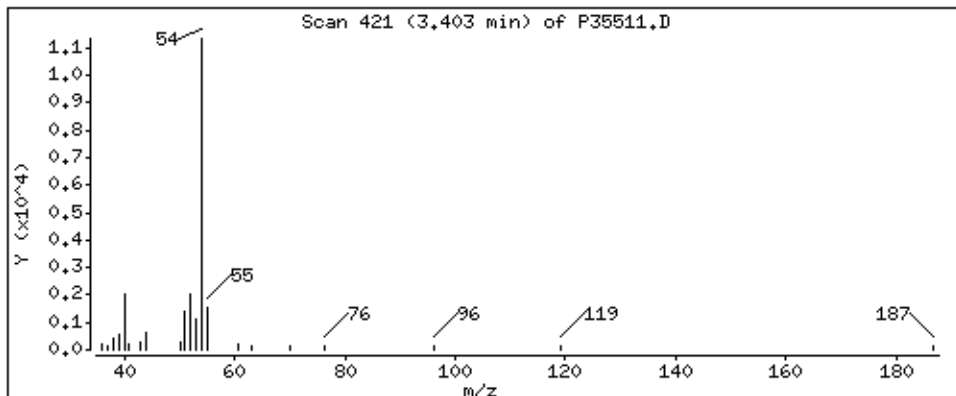
Column phase: RTX-624

Column diameter: 0,18

38 Propionitrile

Concentration: 46,4 ug/L

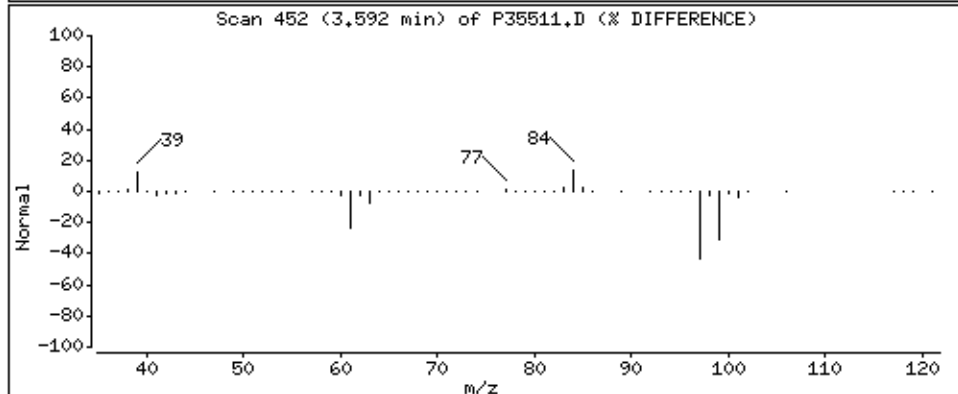
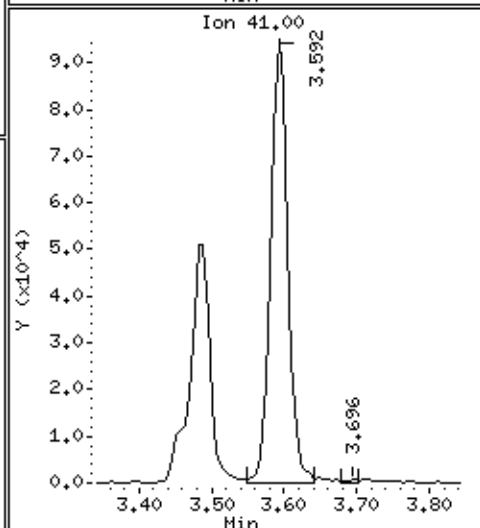
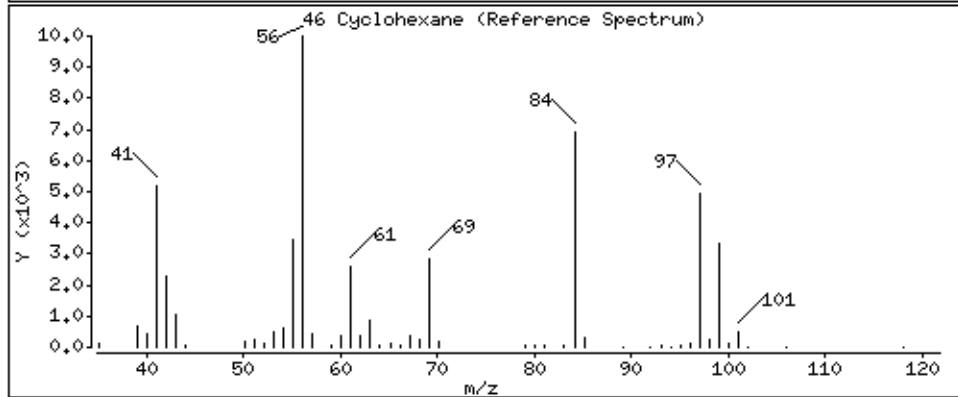
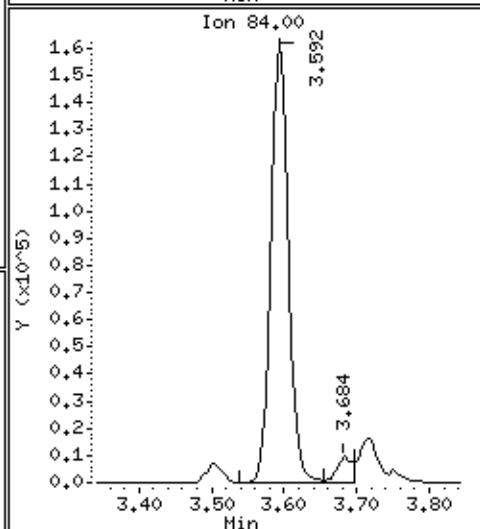
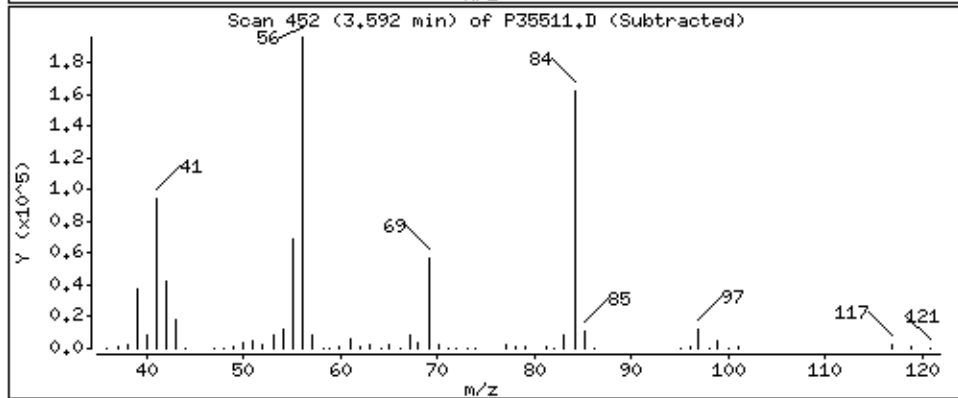
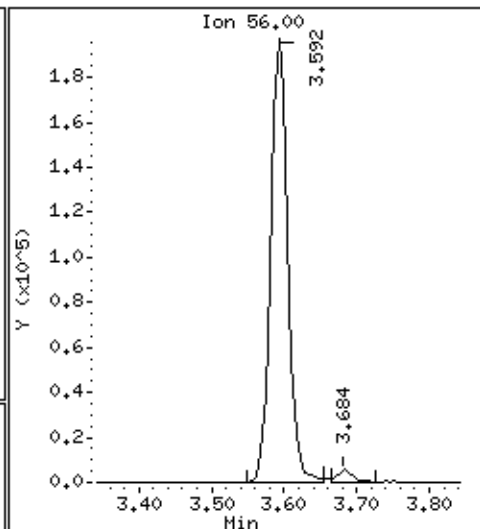
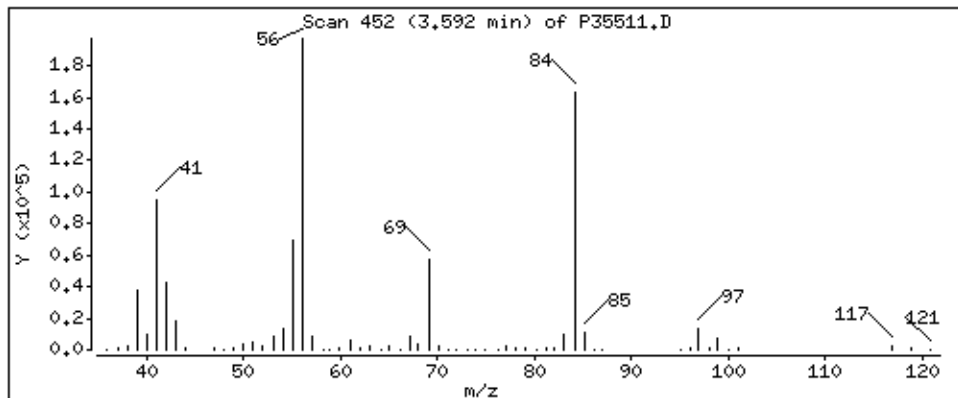
Review Code:



46 Cyclohexane

Concentration: 42.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

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Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

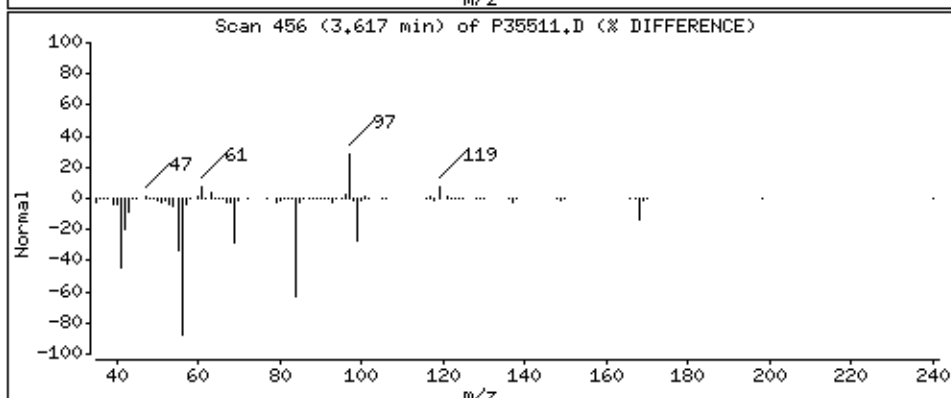
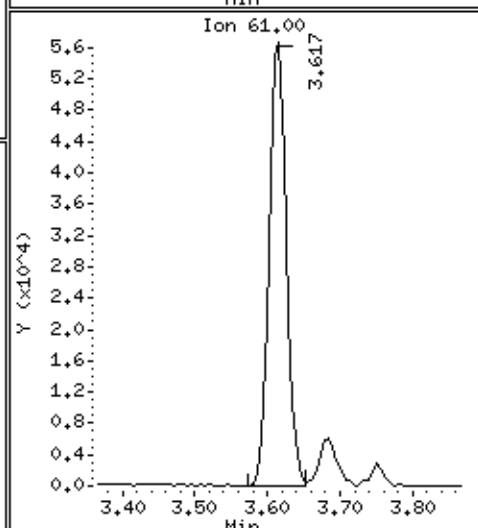
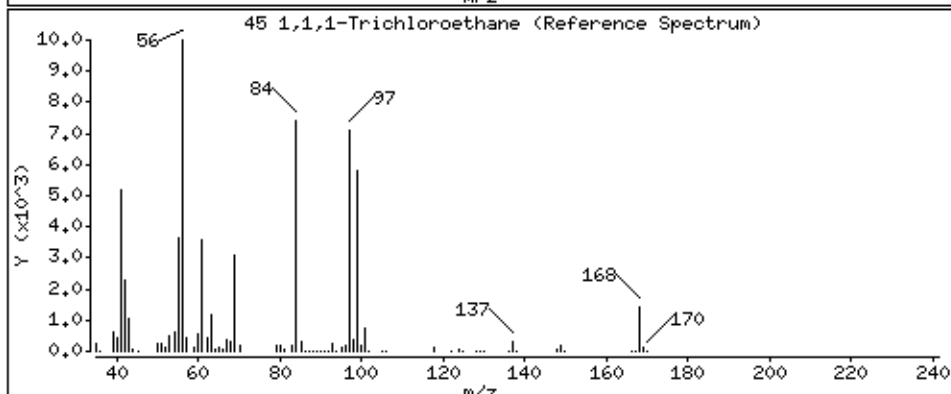
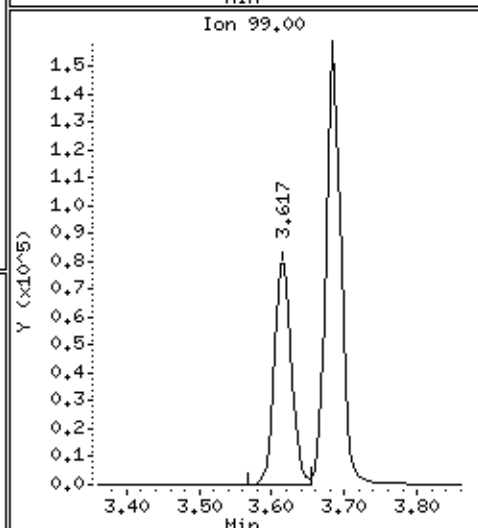
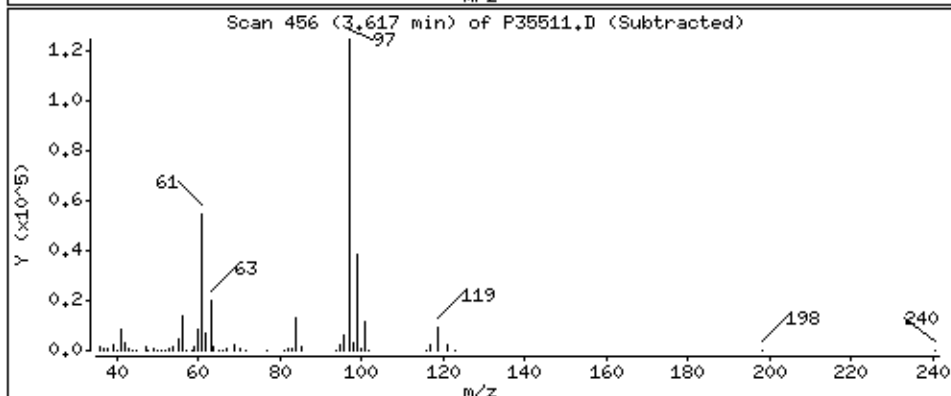
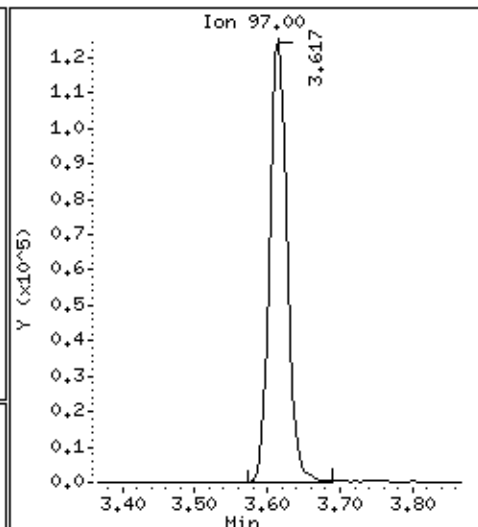
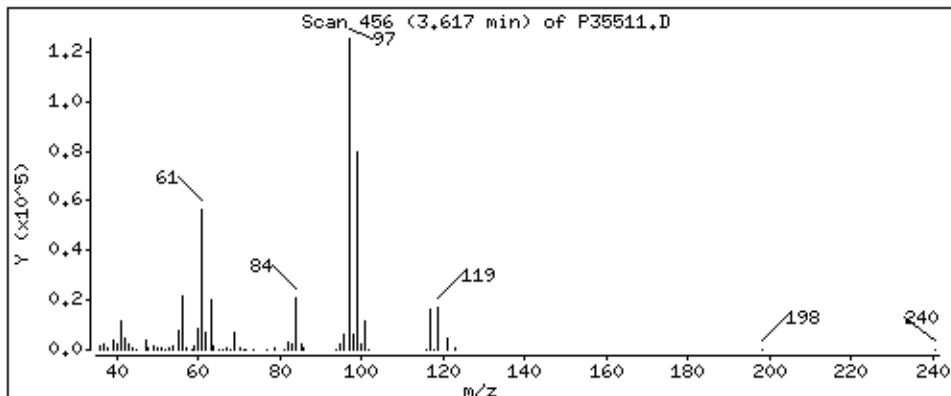
Column phase: RTX-624

Column diameter: 0,18

45 1,1,1-Trichloroethane

Concentration: 44.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

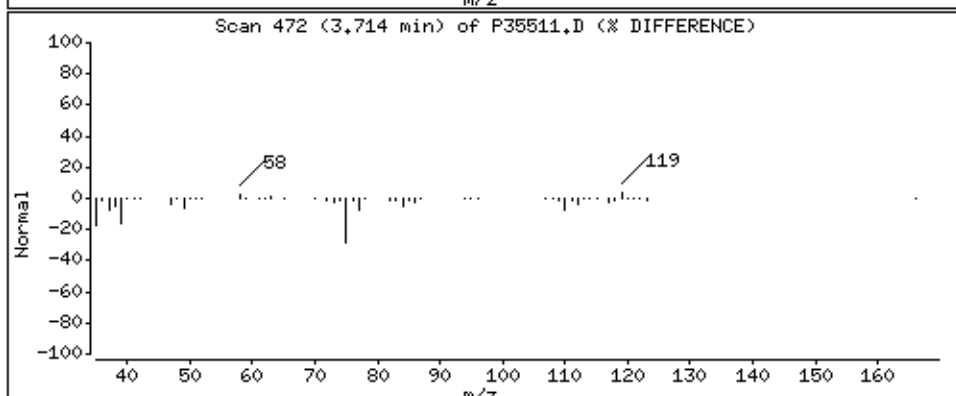
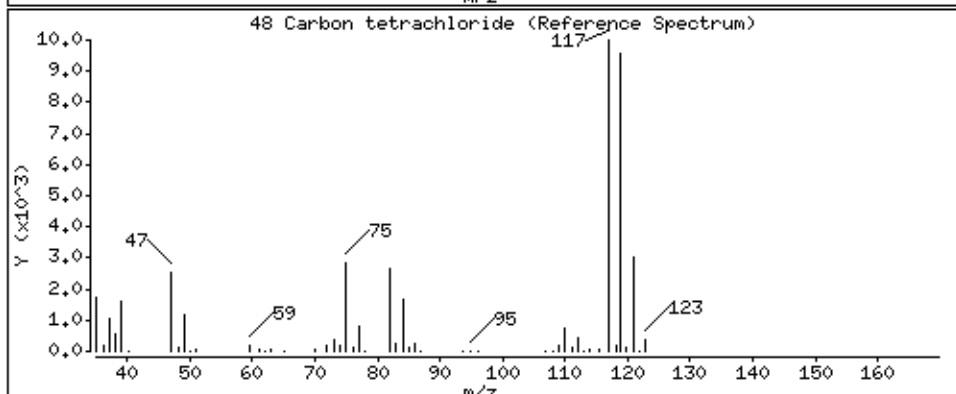
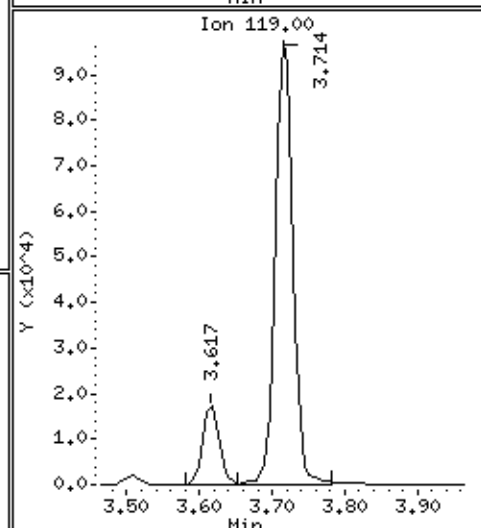
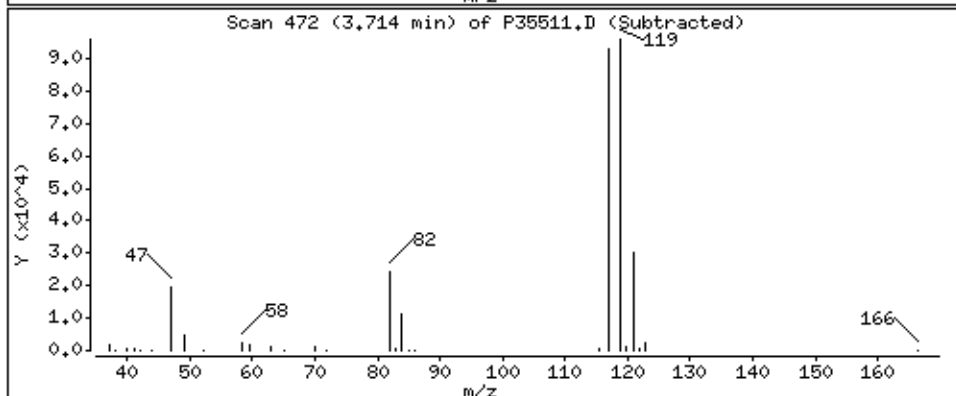
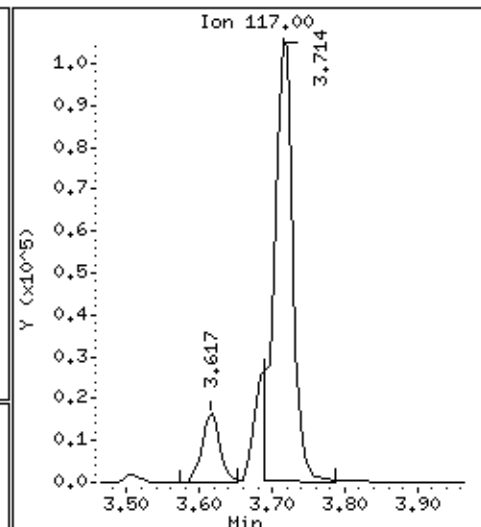
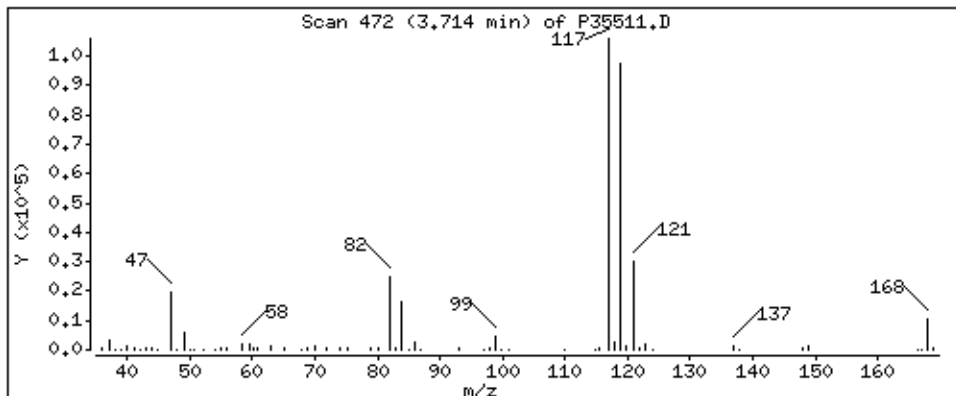
Column phase: RTX-624

Column diameter: 0,18

48 Carbon tetrachloride

Concentration: 45,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

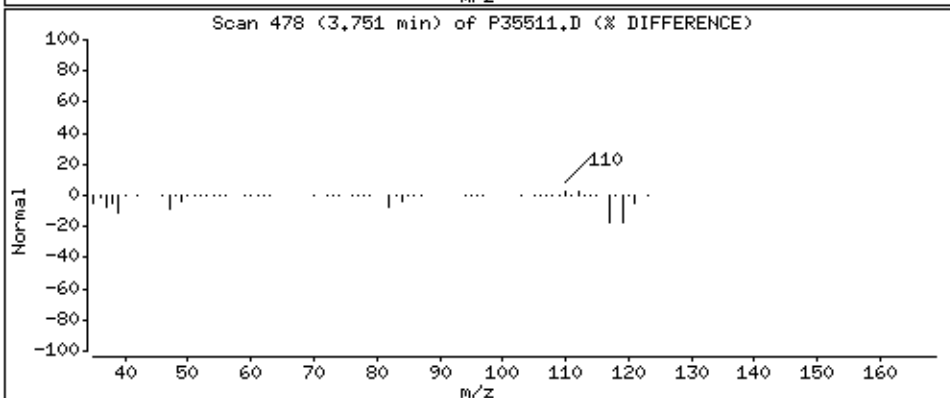
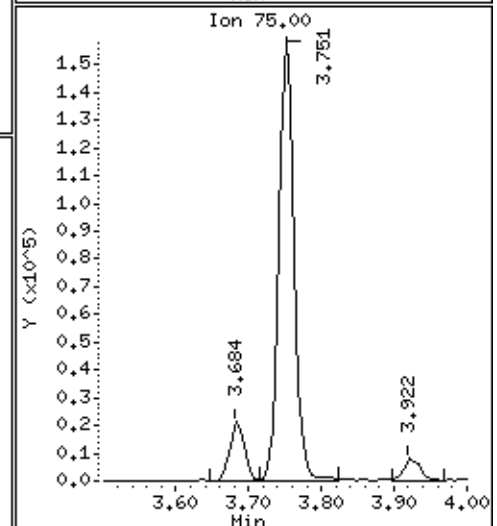
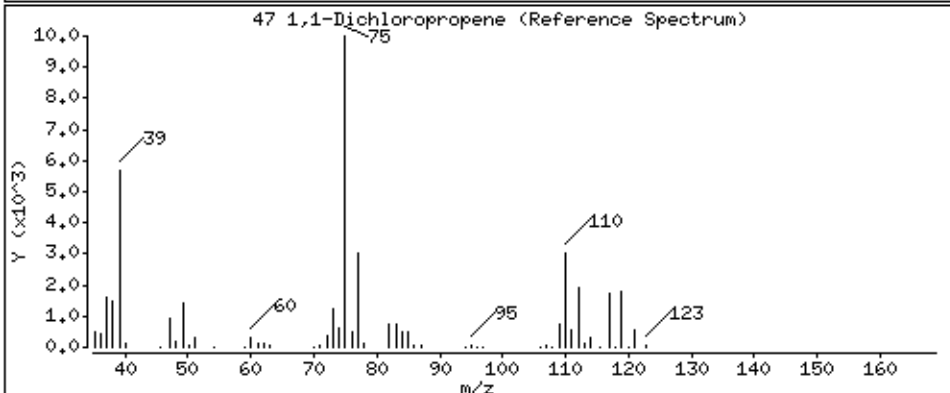
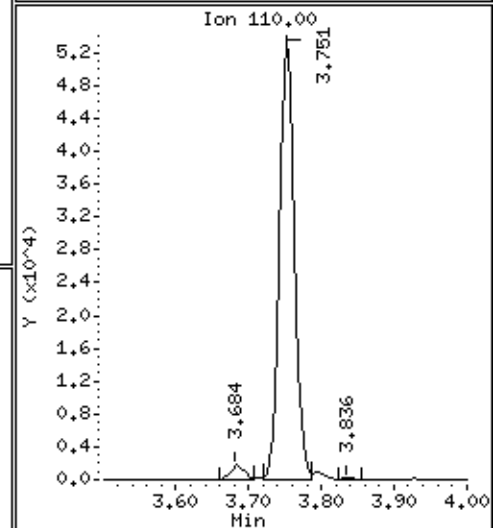
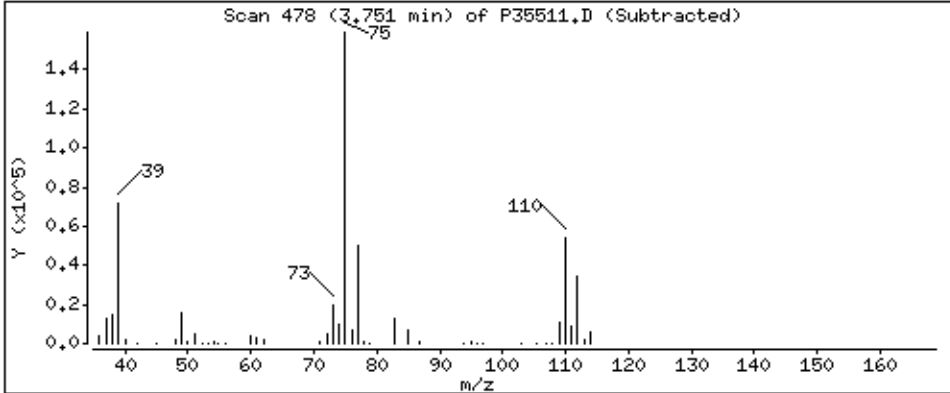
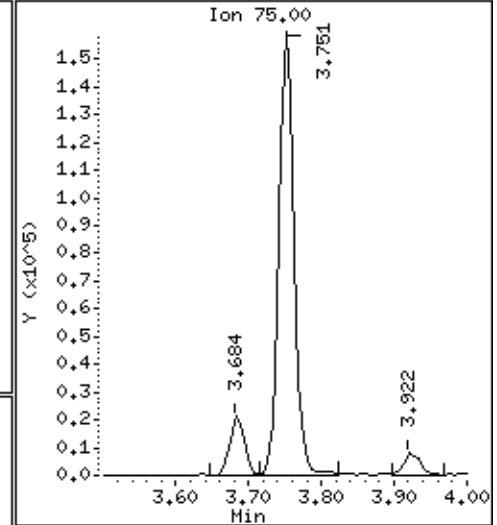
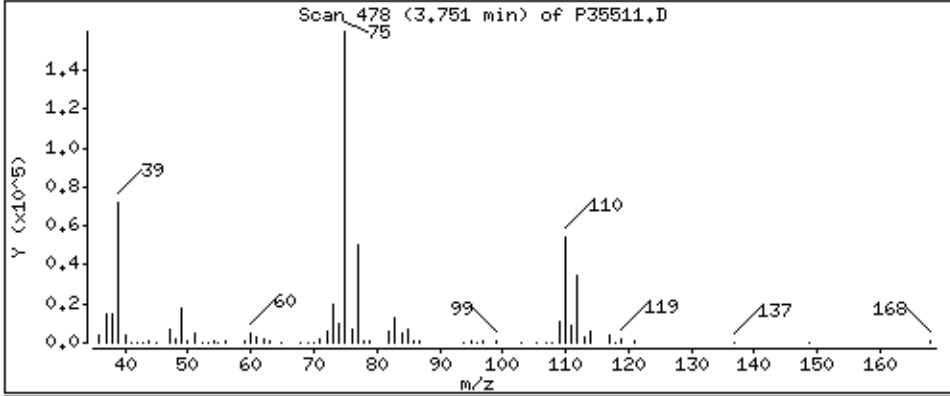
Column phase: RTX-624

Column diameter: 0,18

47 1,1-Dichloropropene

Concentration: 44,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

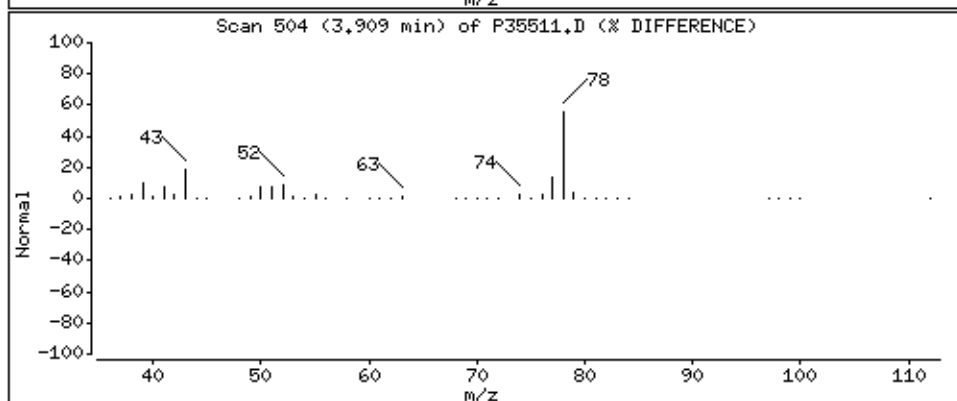
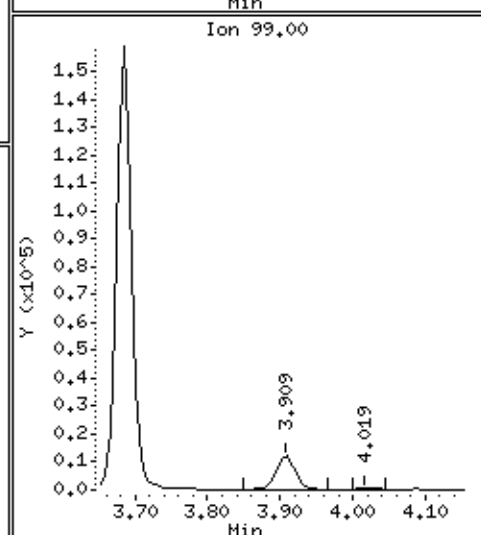
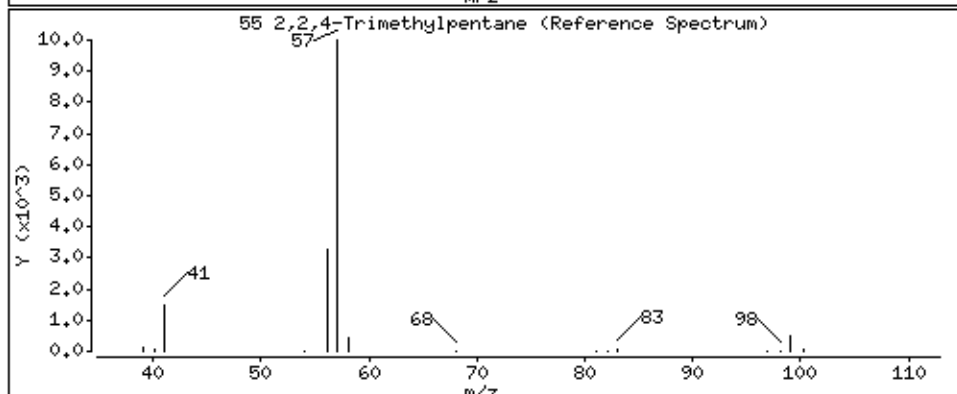
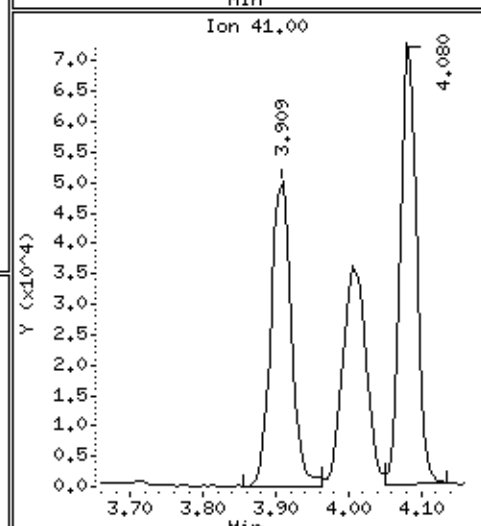
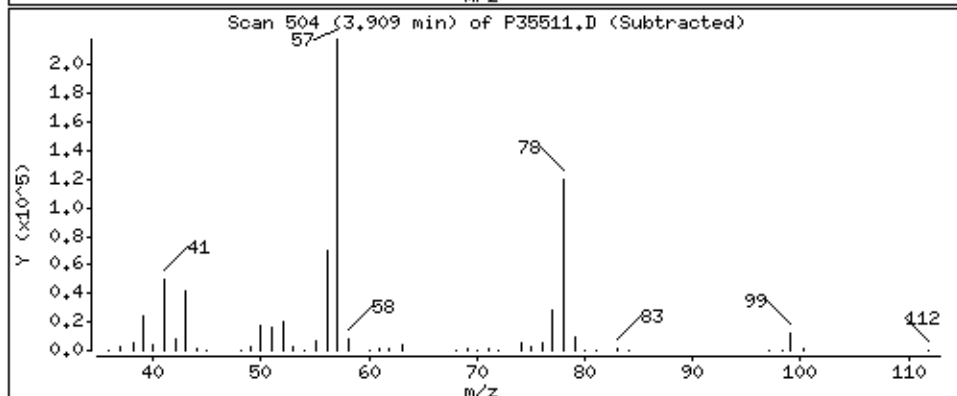
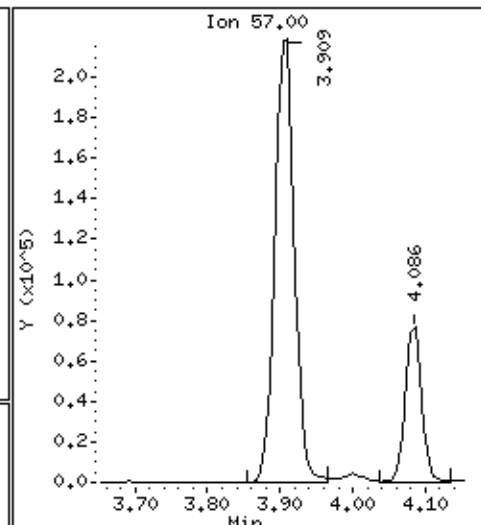
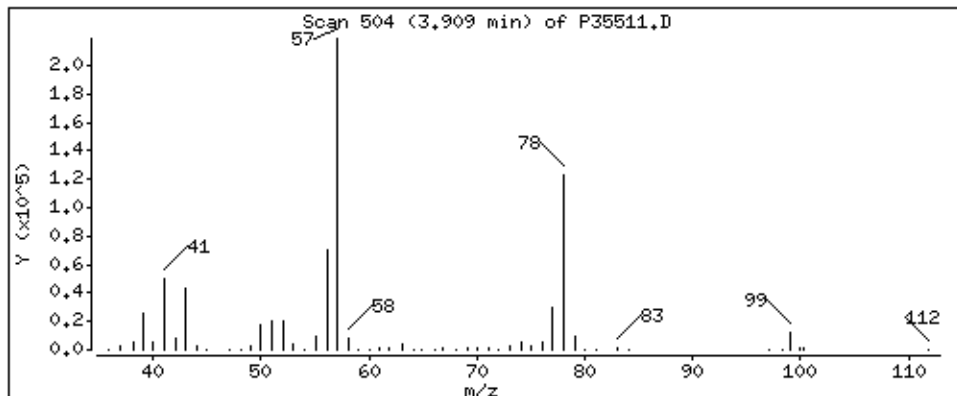
Column phase: RTX-624

Column diameter: 0,18

55 2,2,4-Trimethylpentane

Concentration: 41.3 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

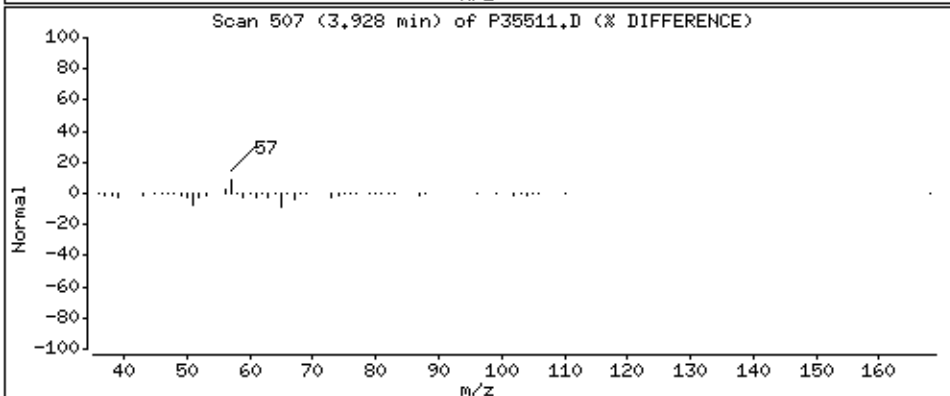
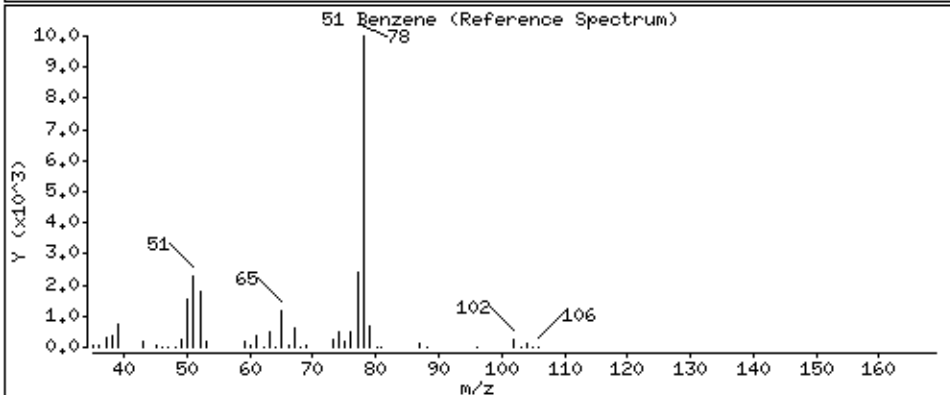
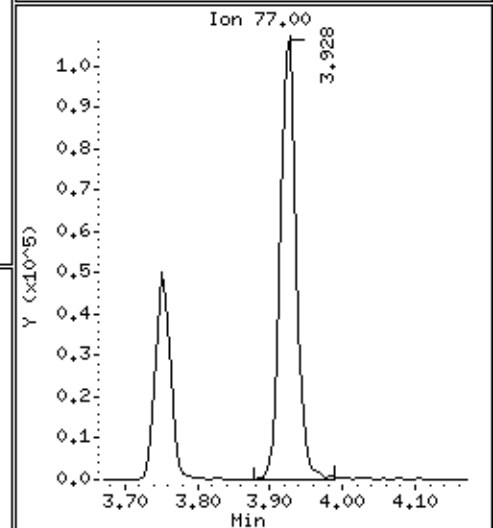
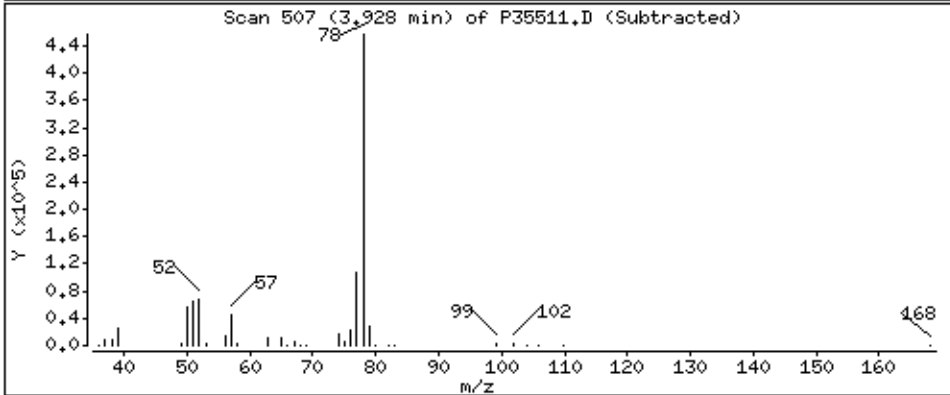
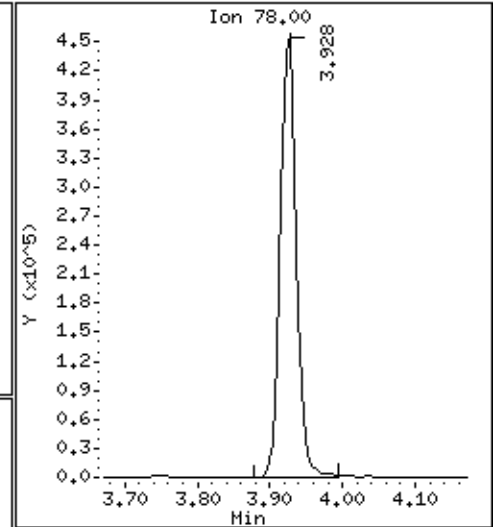
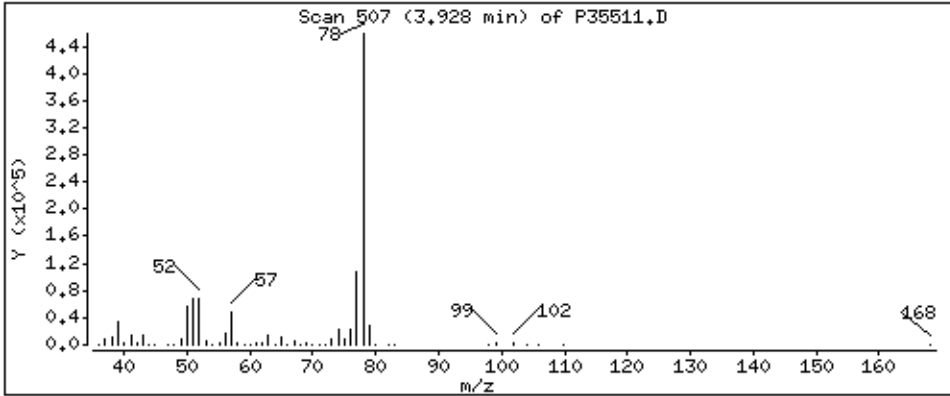
Column phase: RTX-624

Column diameter: 0.18

51 Benzene

Concentration: 50.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

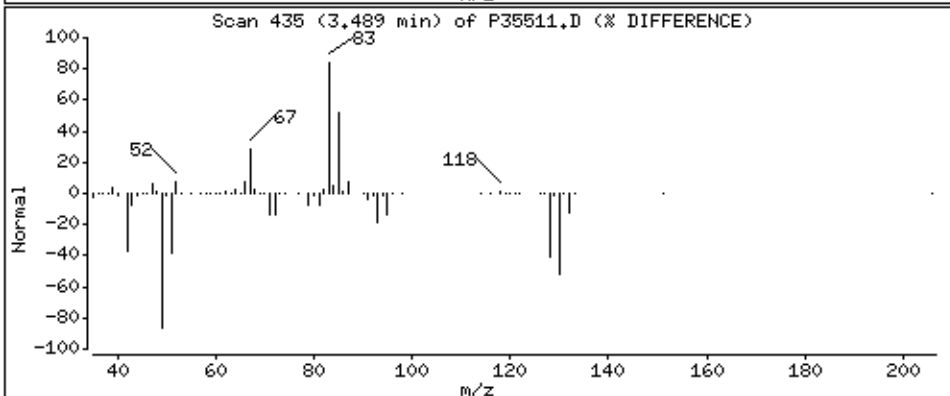
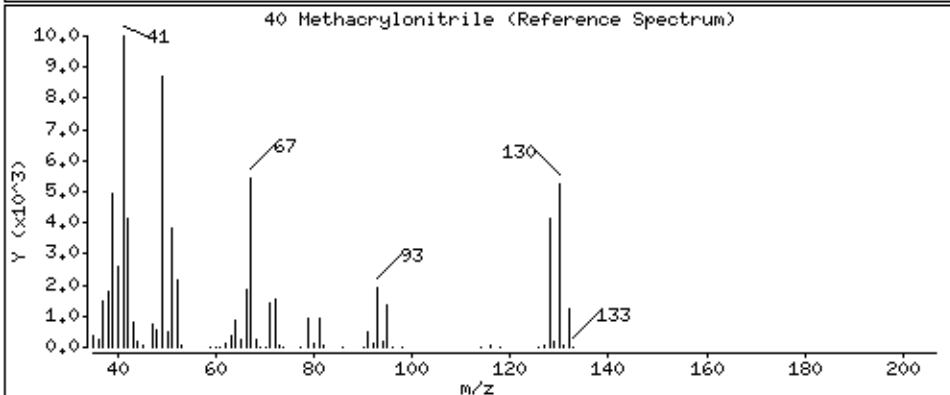
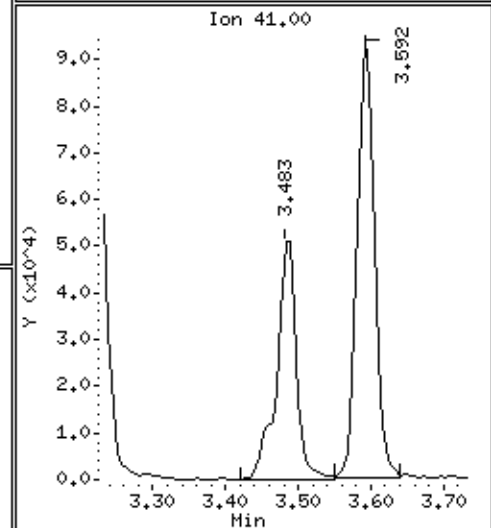
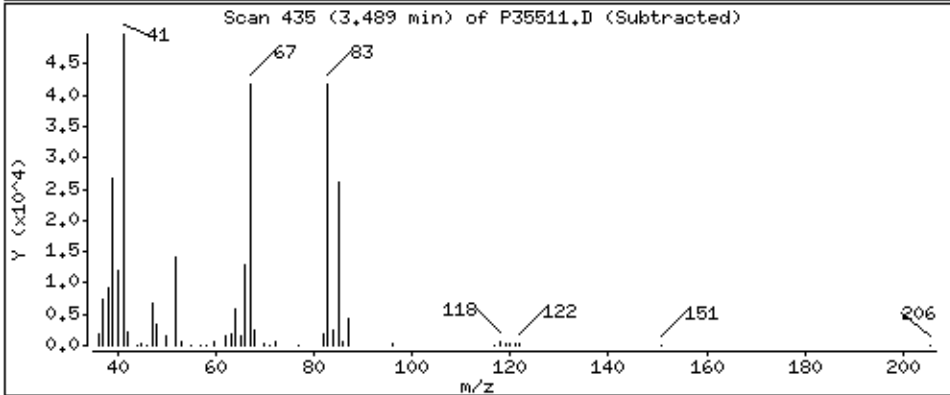
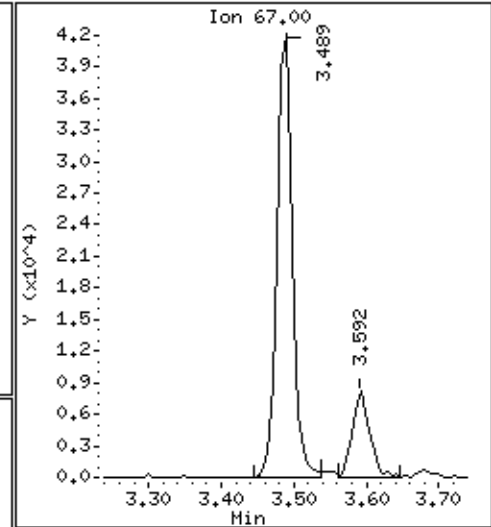
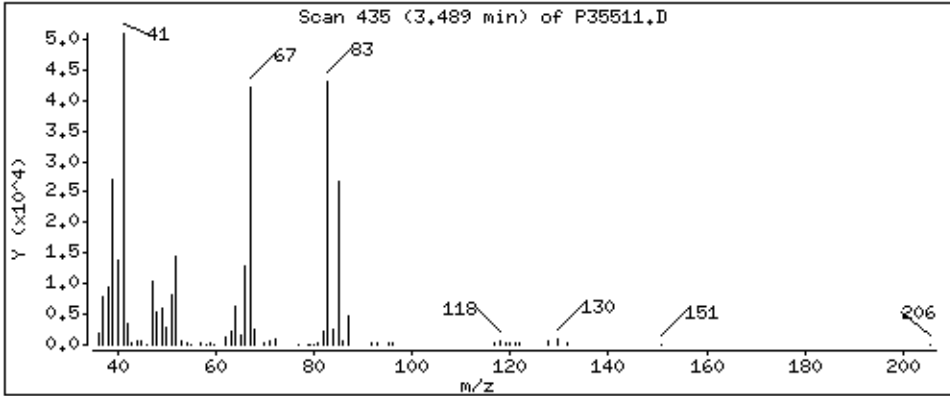
Column phase: RTX-624

Column diameter: 0,18

40 Methacrylonitrile

Concentration: 48,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

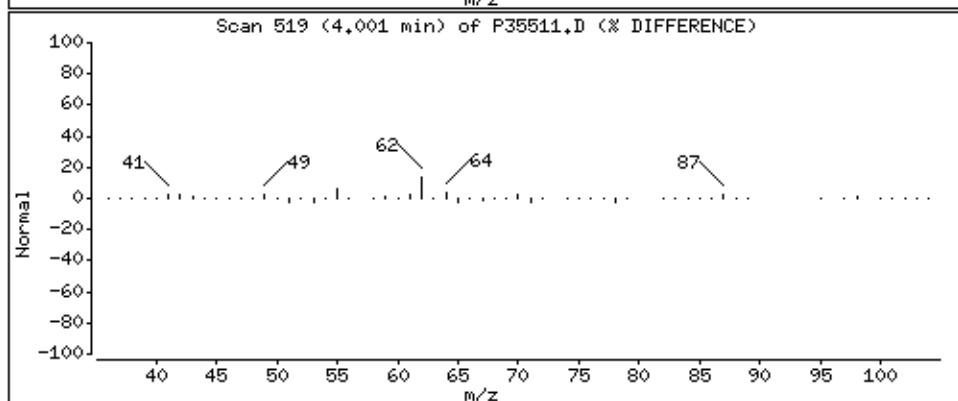
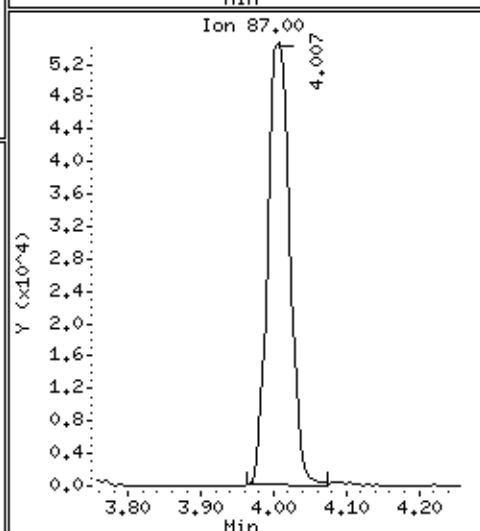
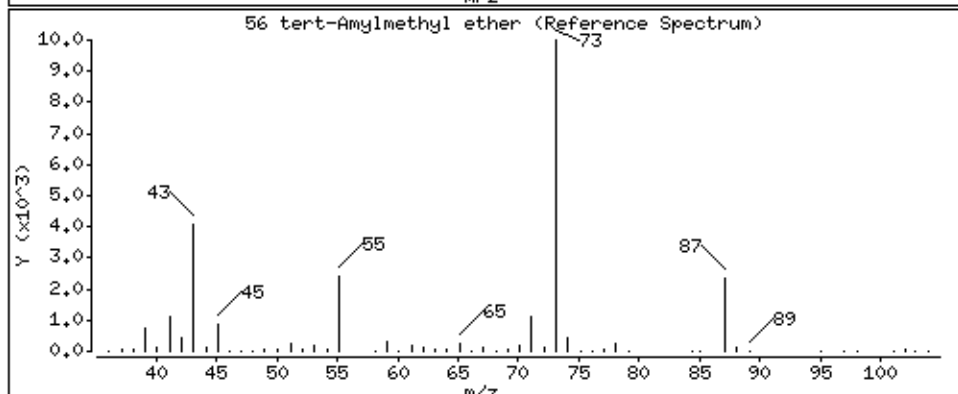
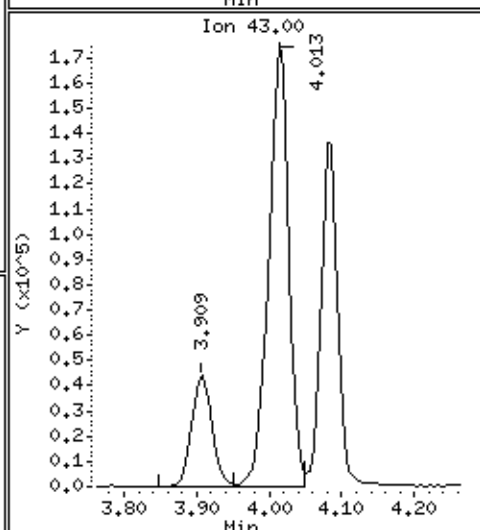
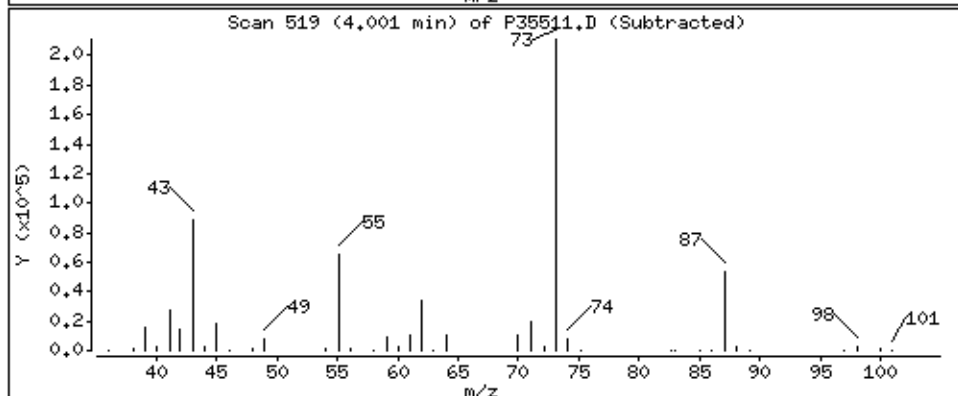
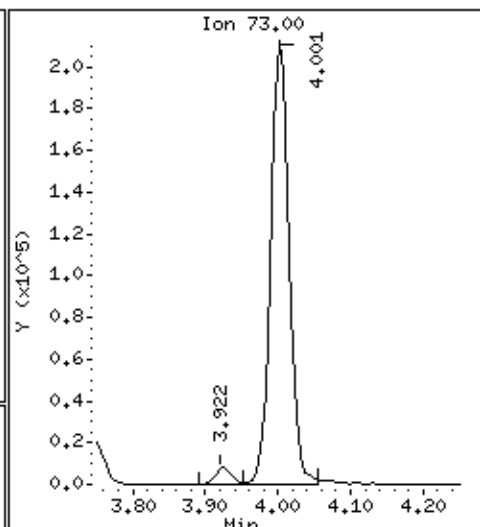
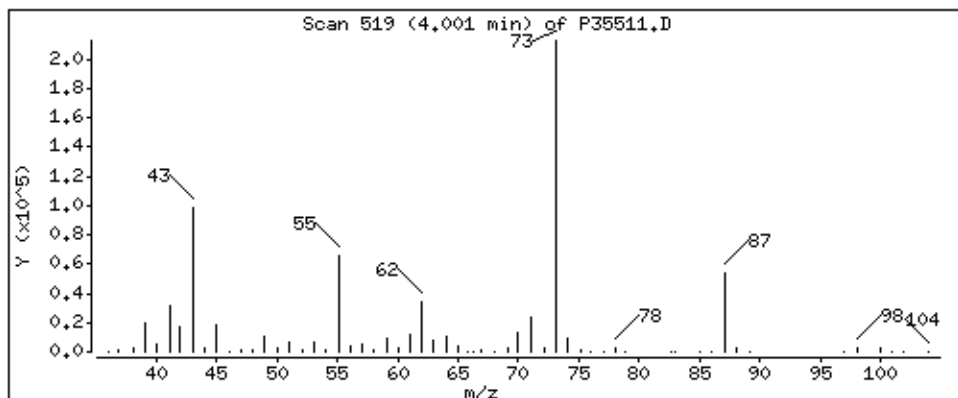
Column phase: RTX-624

Column diameter: 0.18

56 tert-Amylmethyl ether

Concentration: 41.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

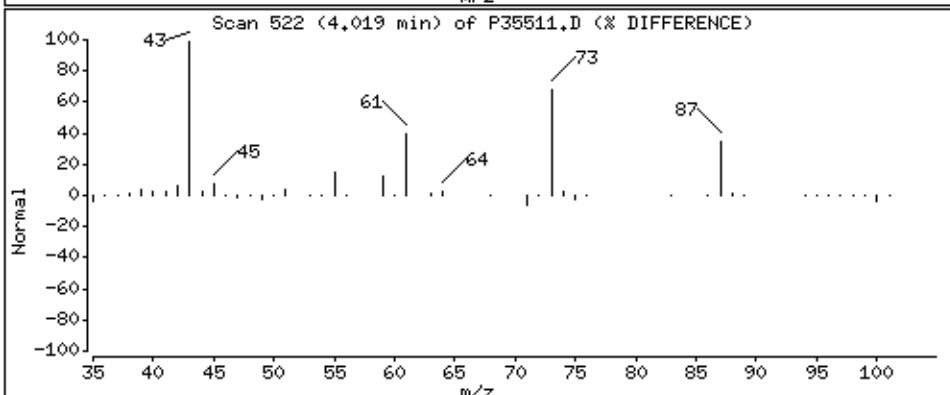
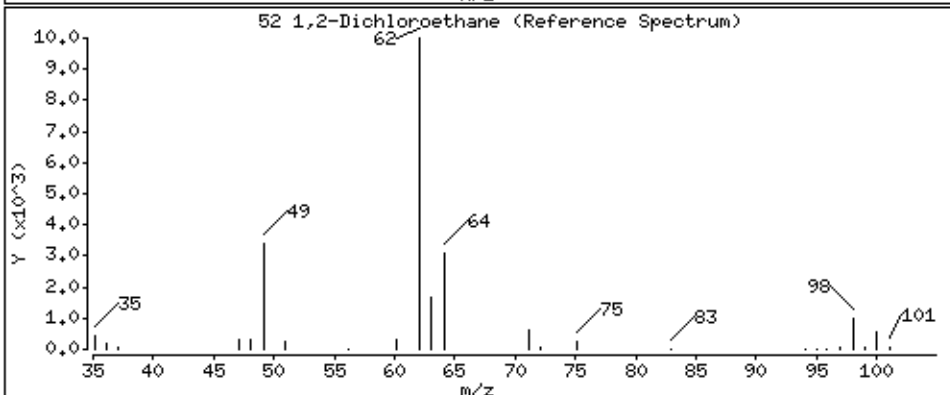
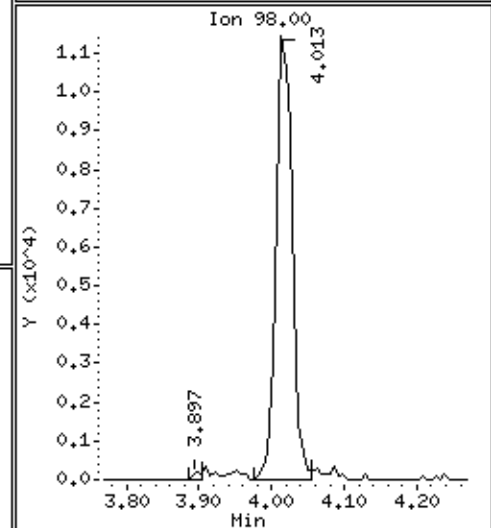
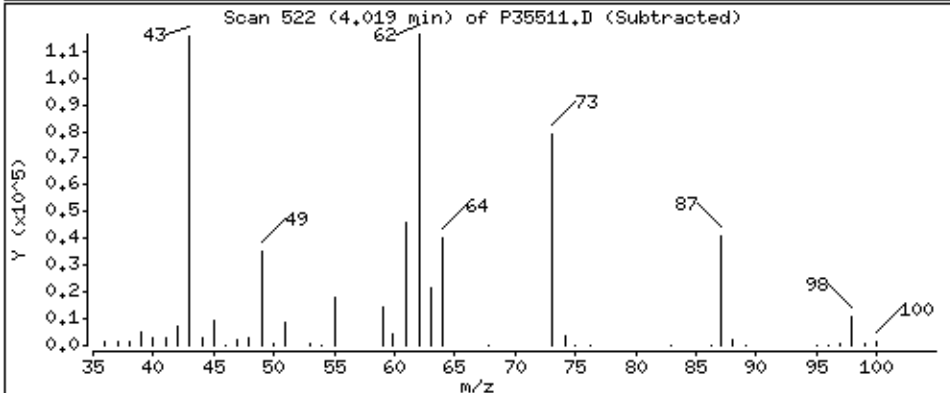
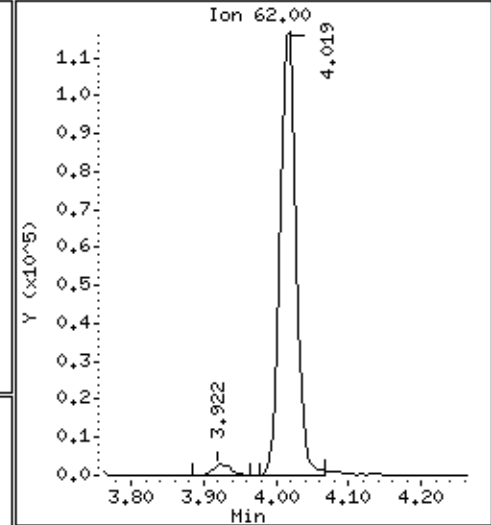
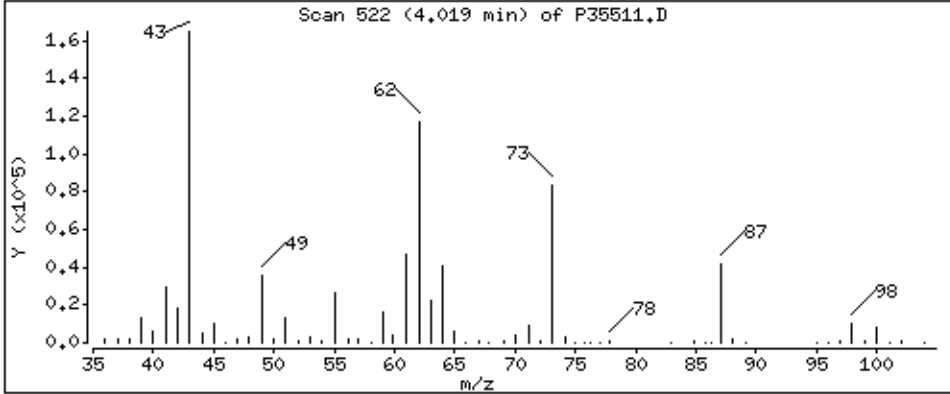
Column phase: RTX-624

Column diameter: 0,18

52 1,2-Dichloroethane

Concentration: 44,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

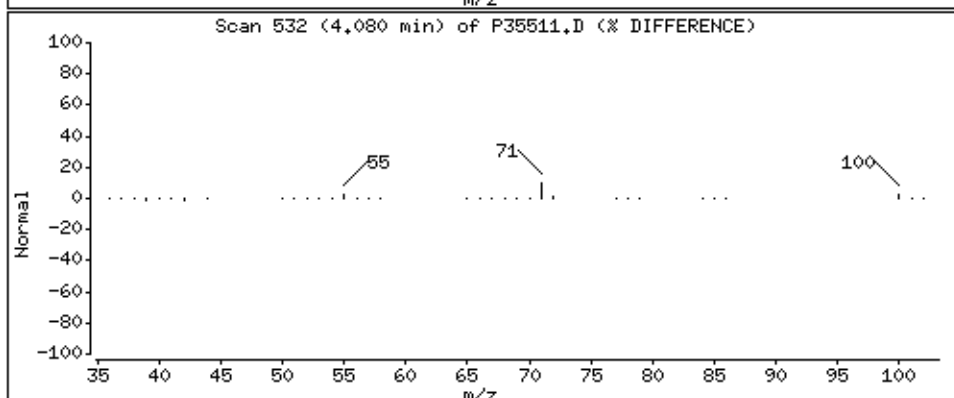
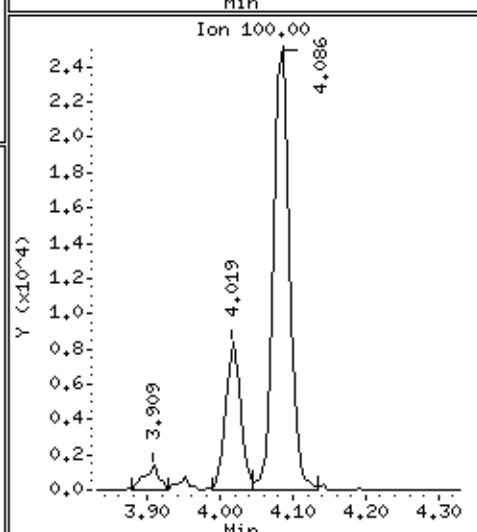
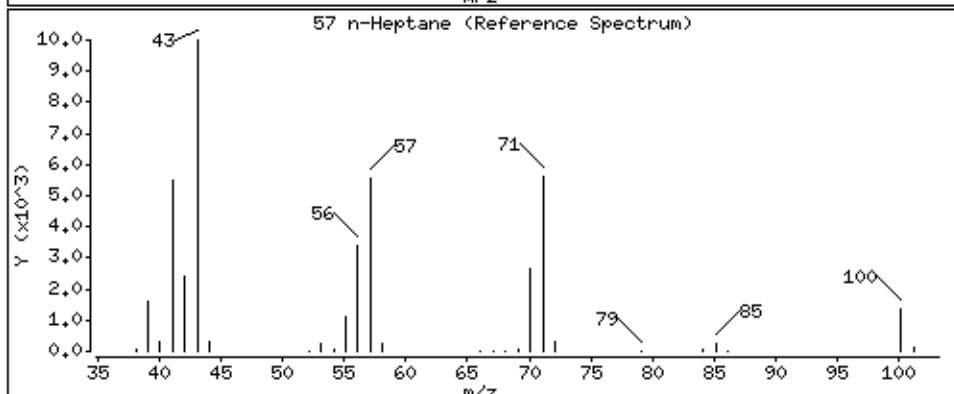
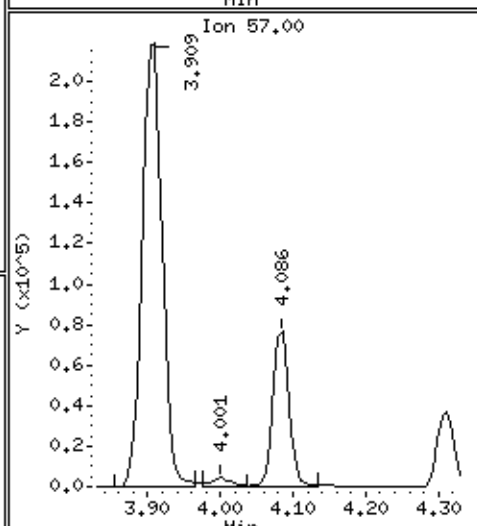
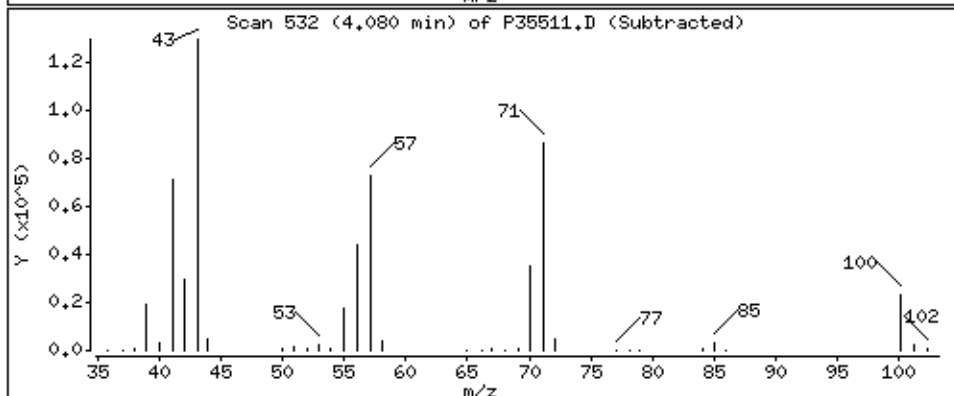
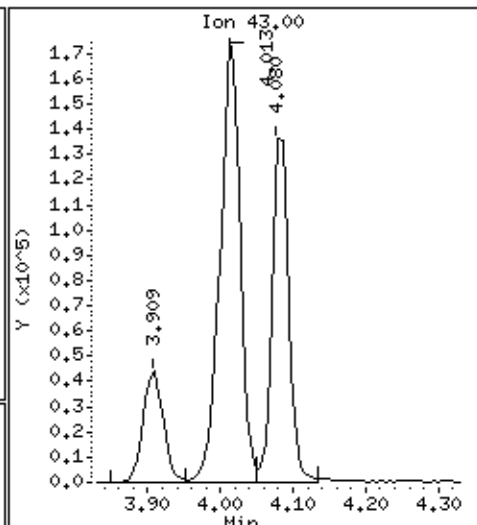
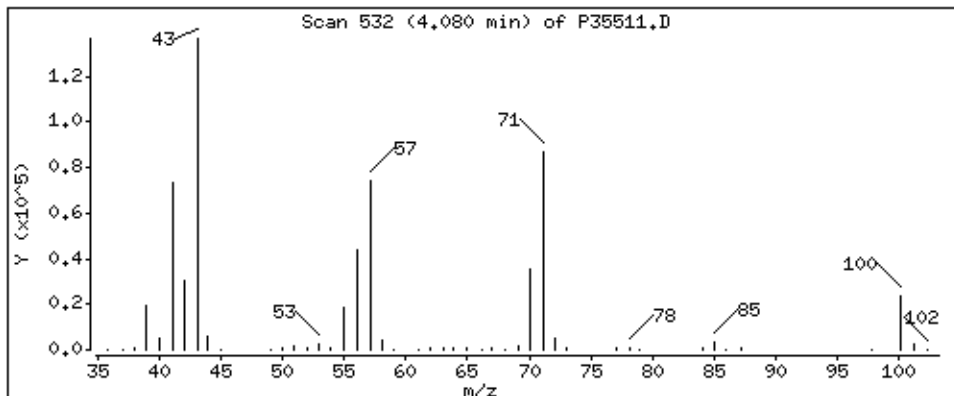
Column phase: RTX-624

Column diameter: 0,18

57 n-Heptane

Concentration: 38,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

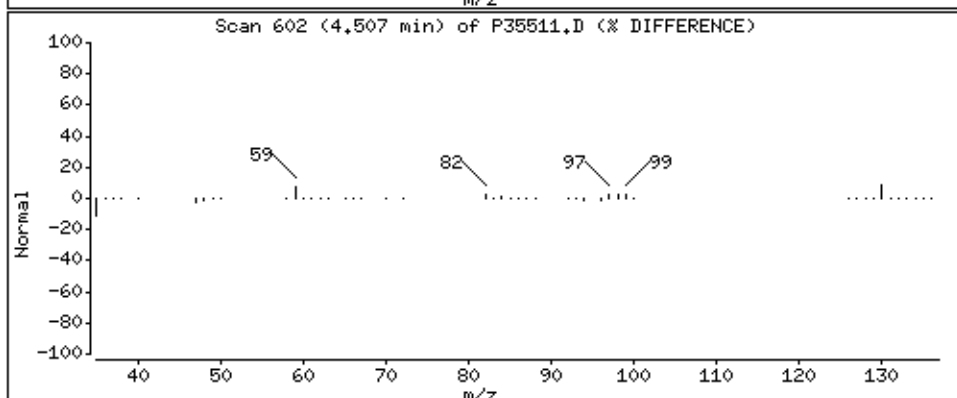
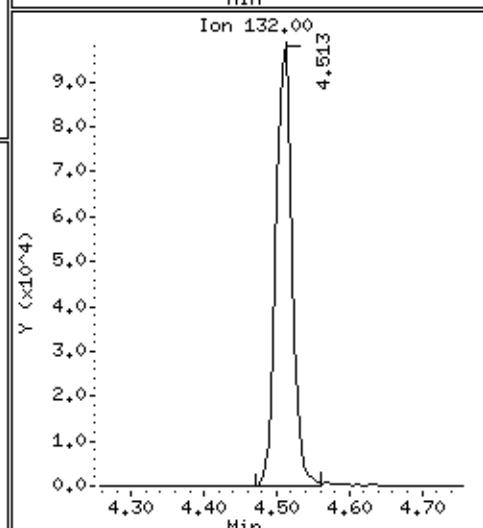
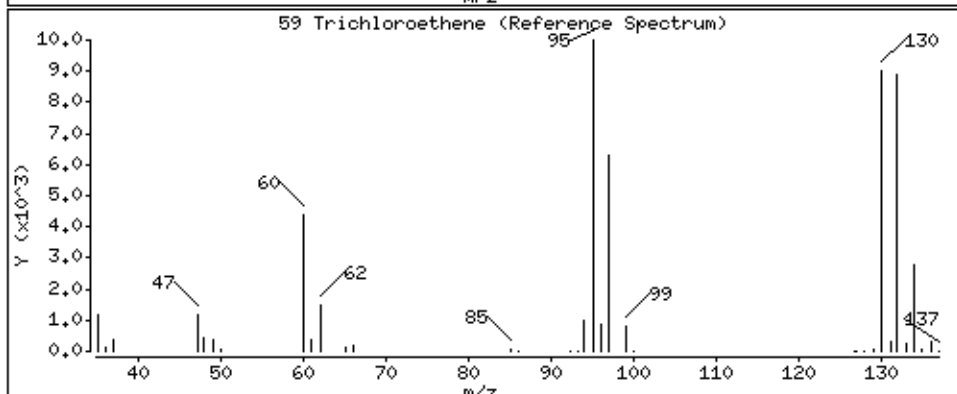
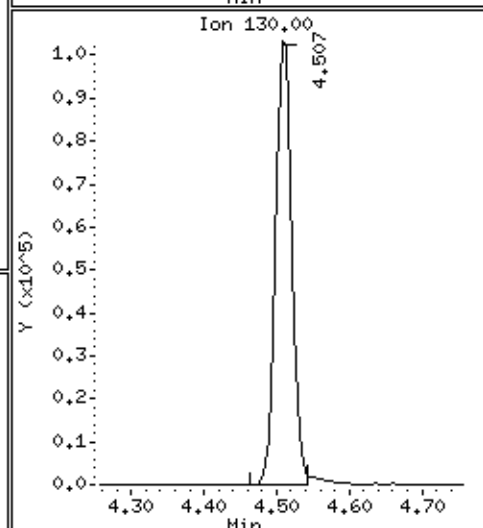
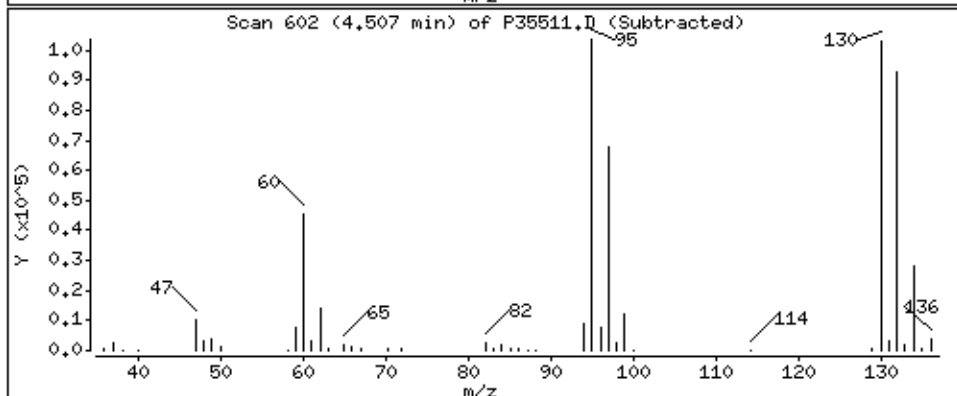
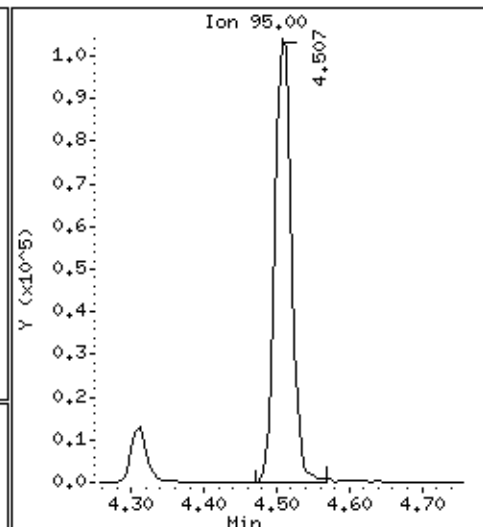
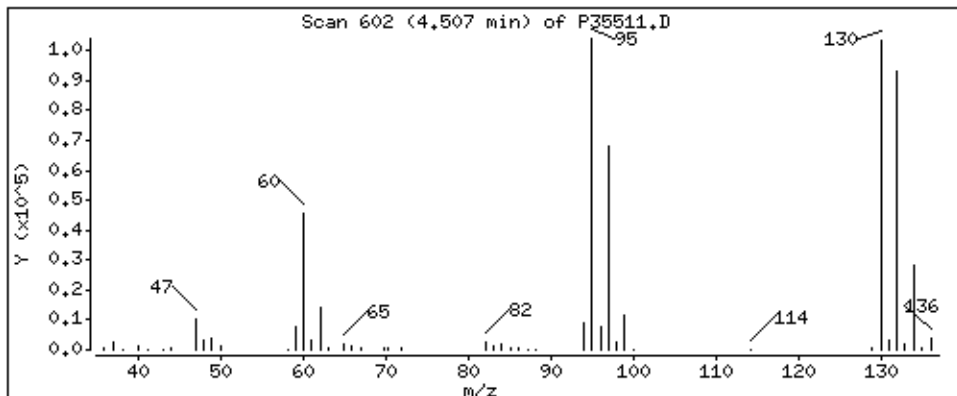
Column phase: RTX-624

Column diameter: 0.18

59 Trichloroethene

Concentration: 45.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

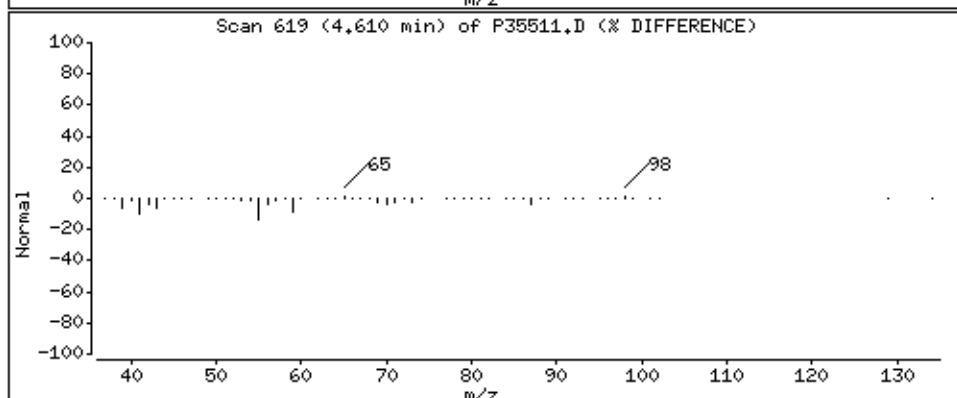
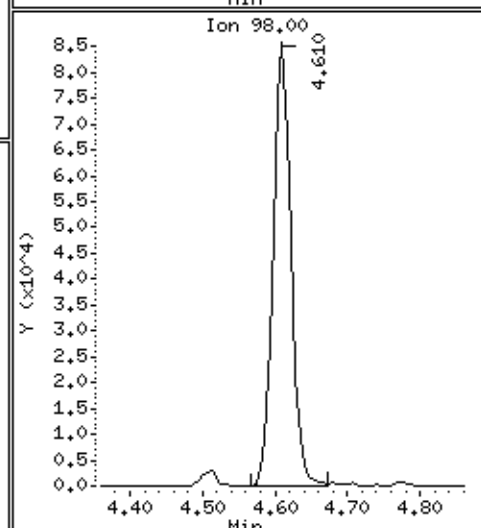
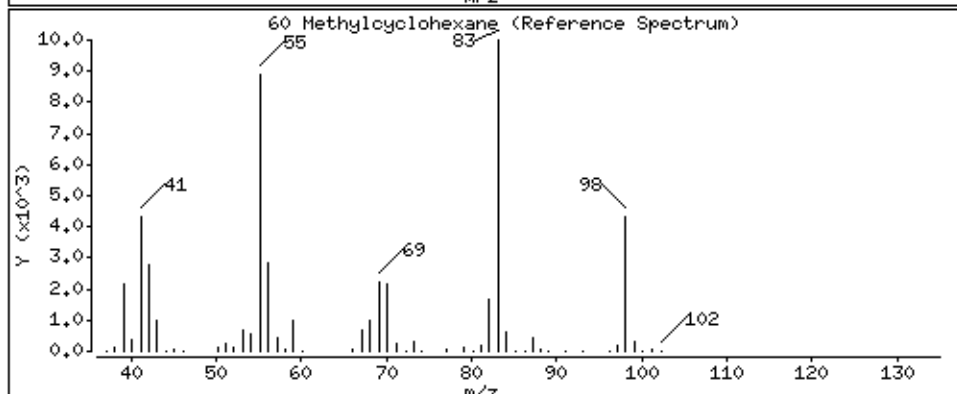
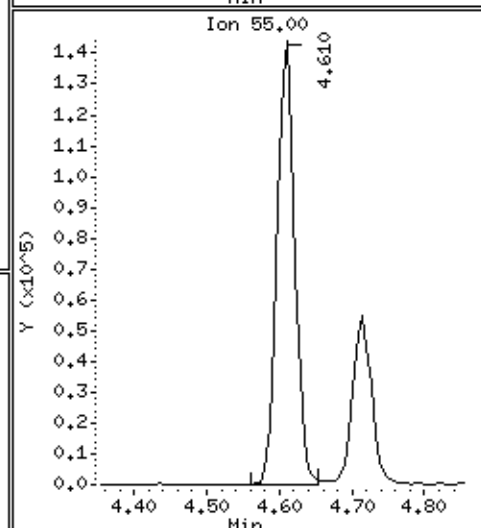
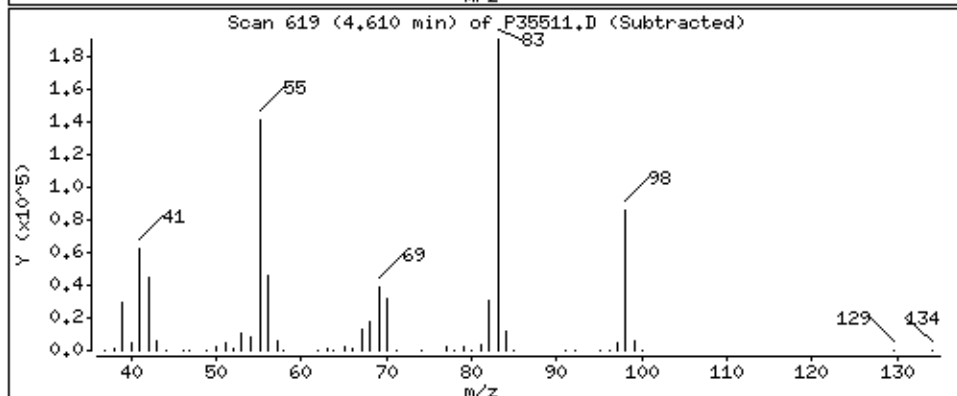
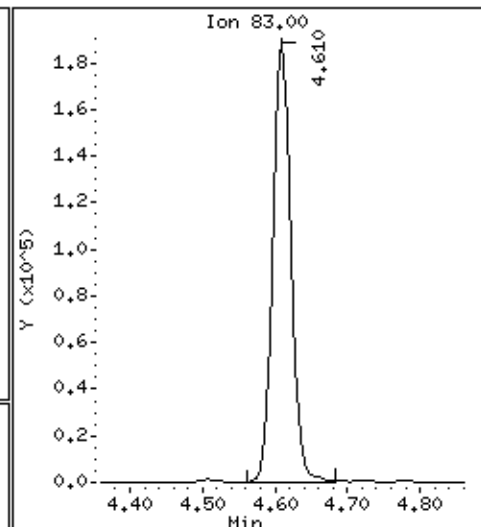
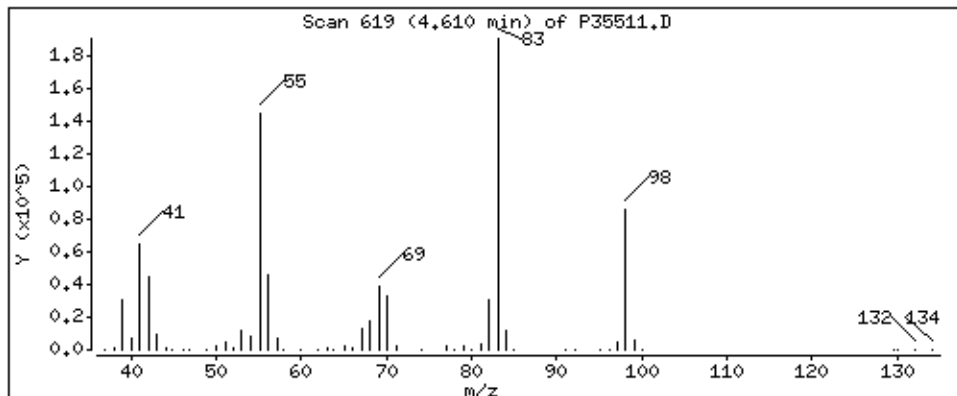
Column phase: RTX-624

Column diameter: 0,18

60 Methylcyclohexane

Concentration: 45,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

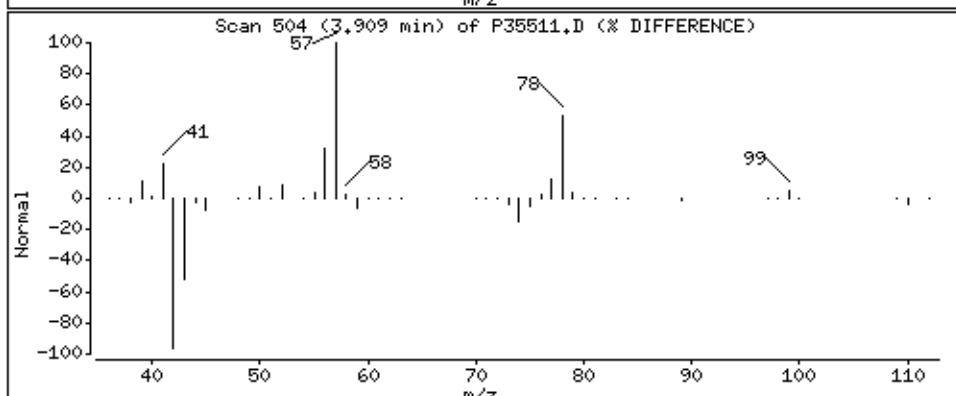
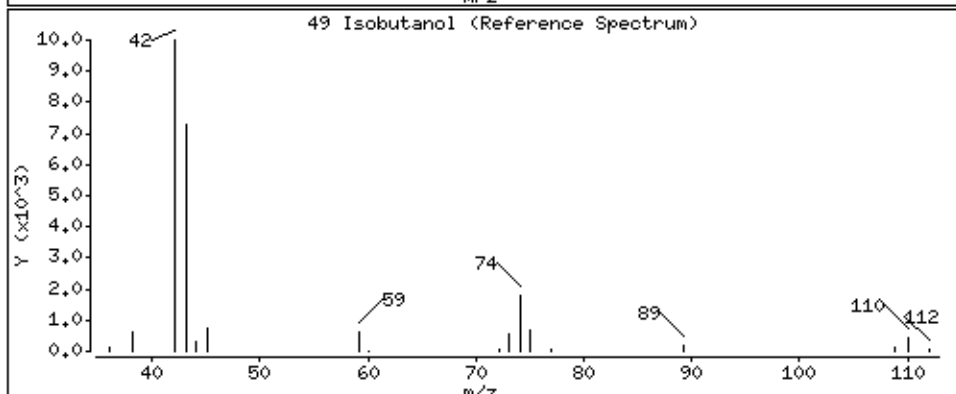
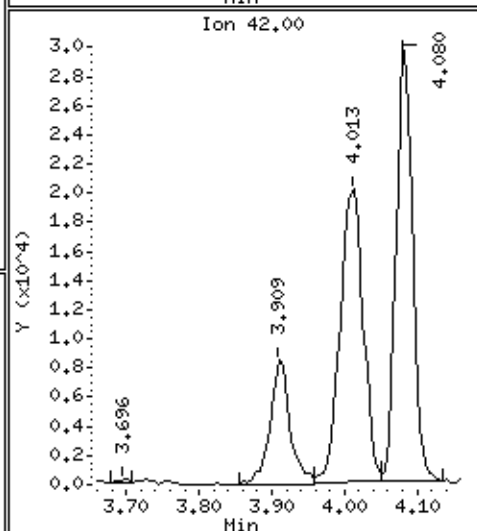
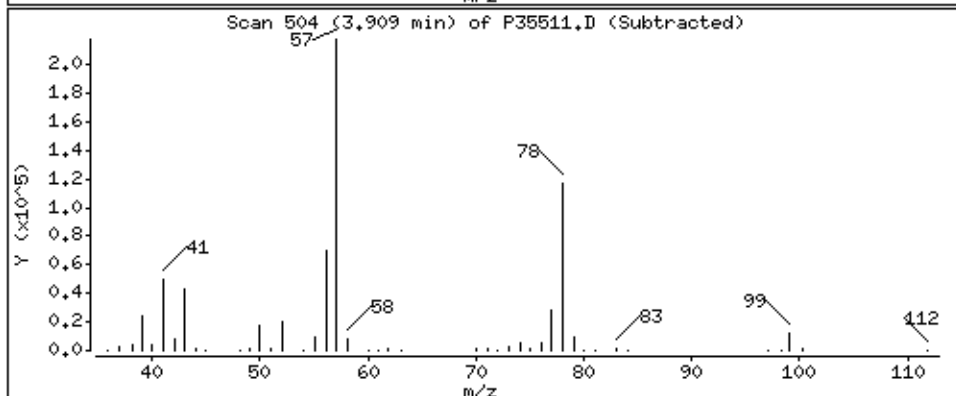
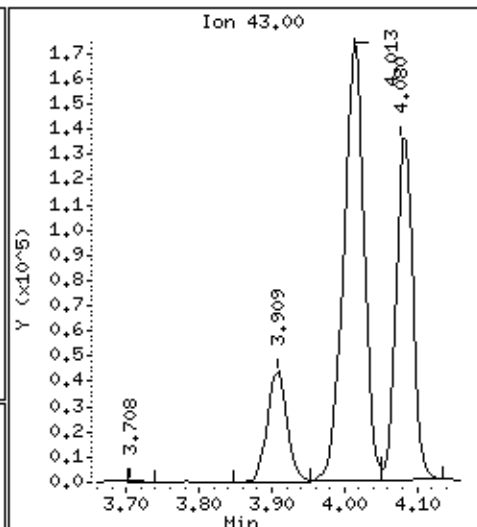
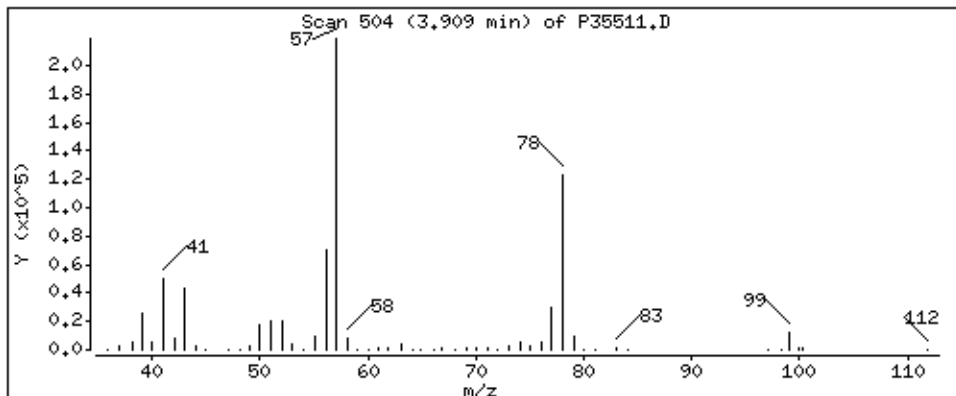
Column phase: RTX-624

Column diameter: 0.18

49 Isobutanol

Concentration: 187 ug/L

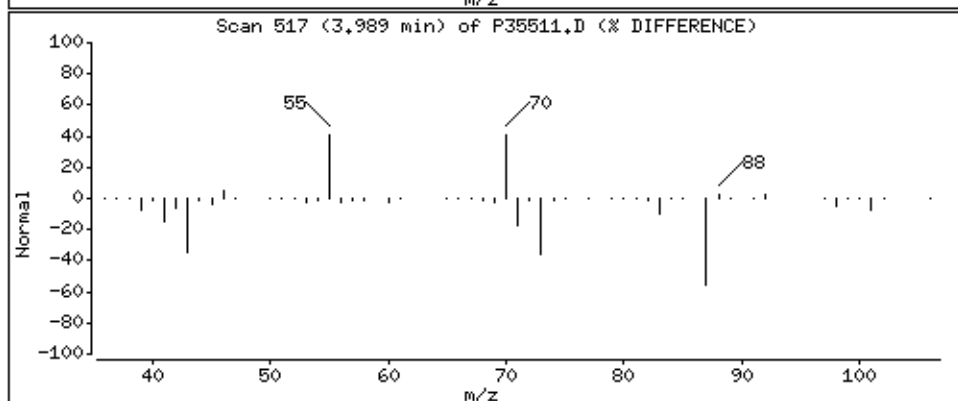
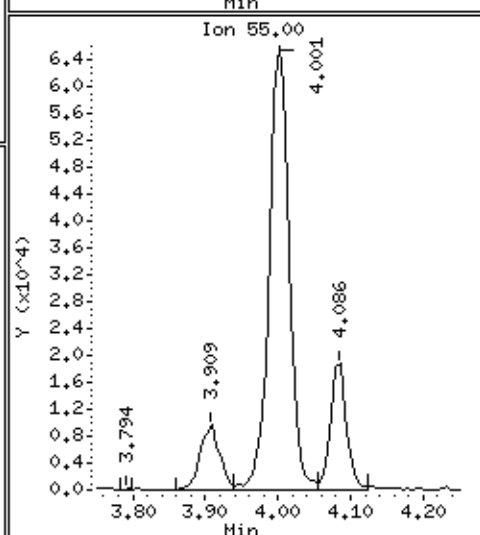
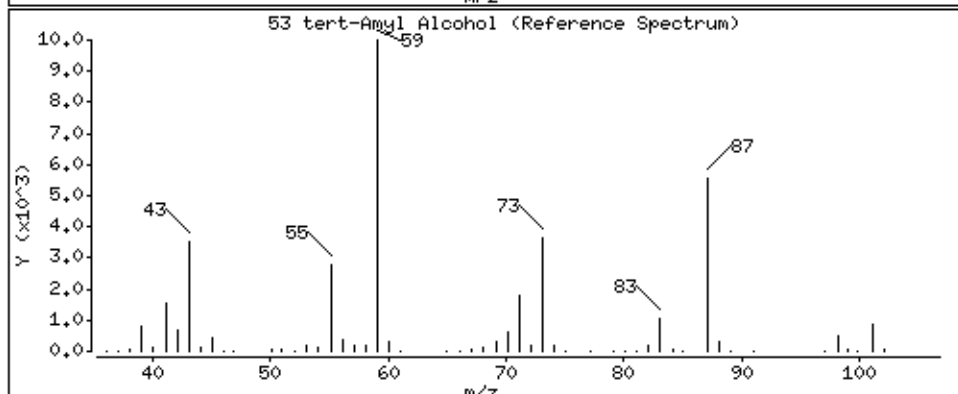
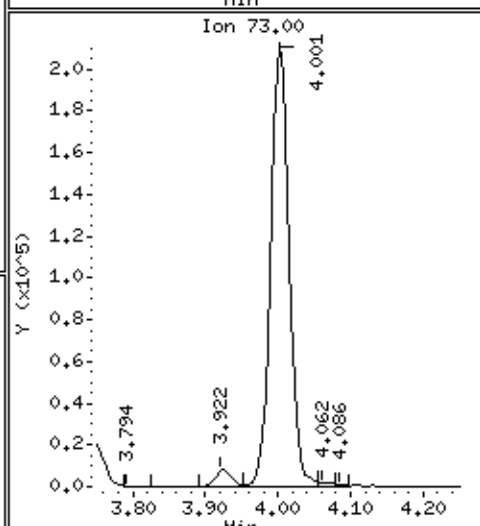
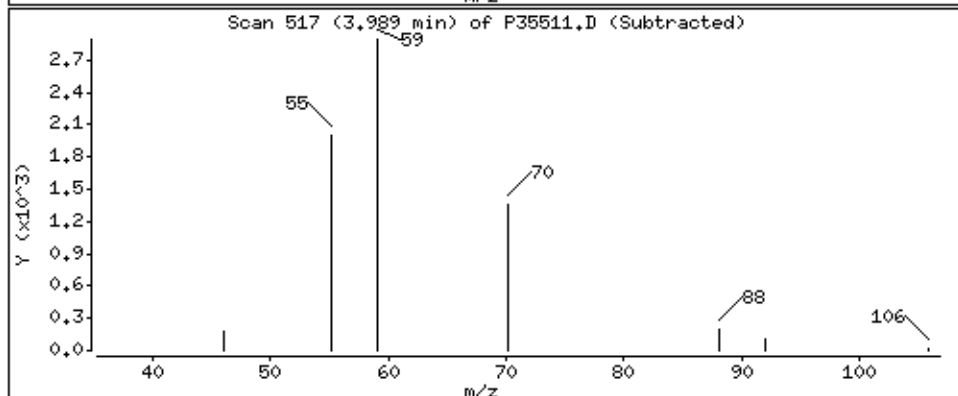
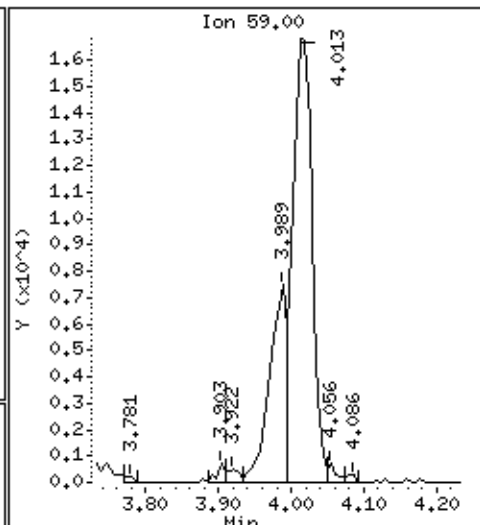
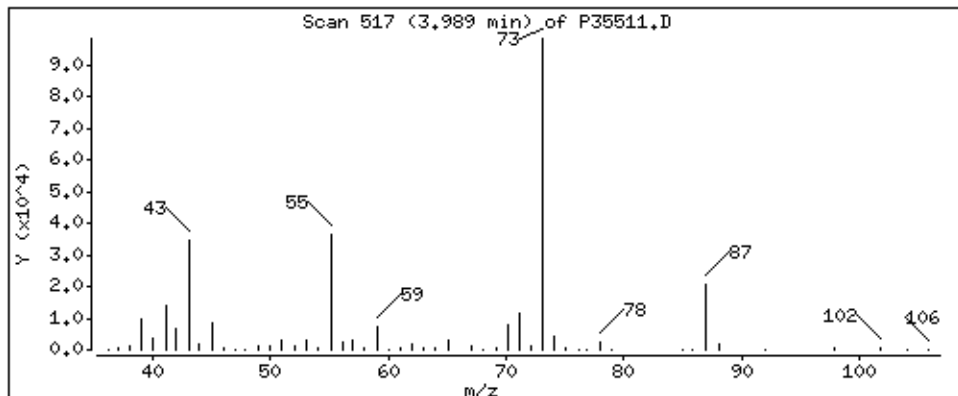
Review Code:





53 tert-Amyl Alcohol

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

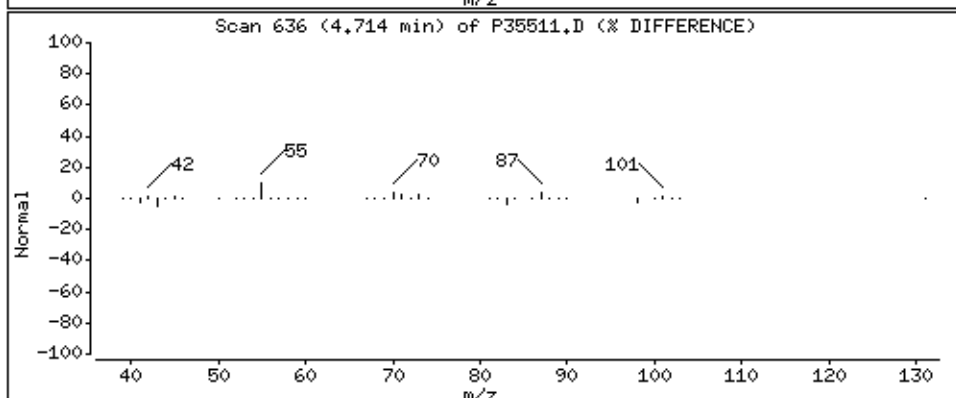
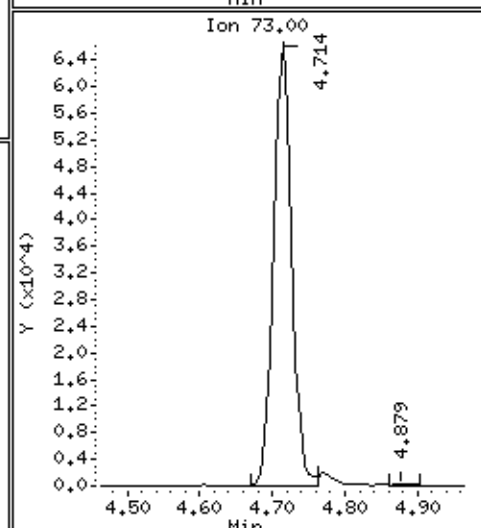
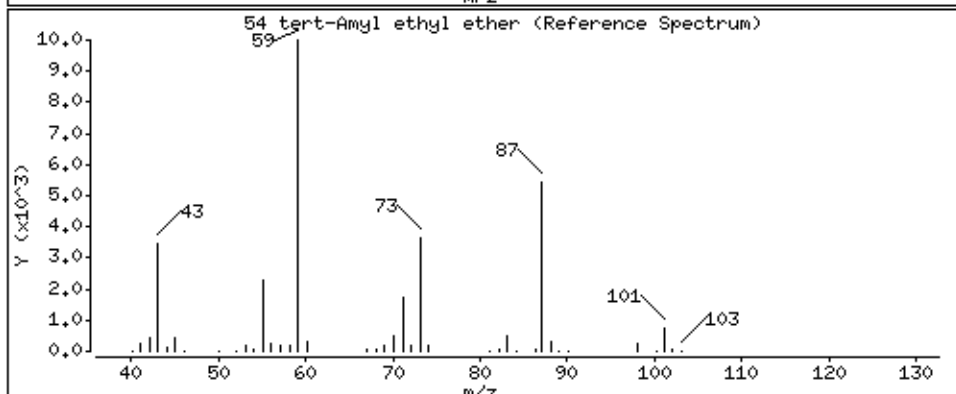
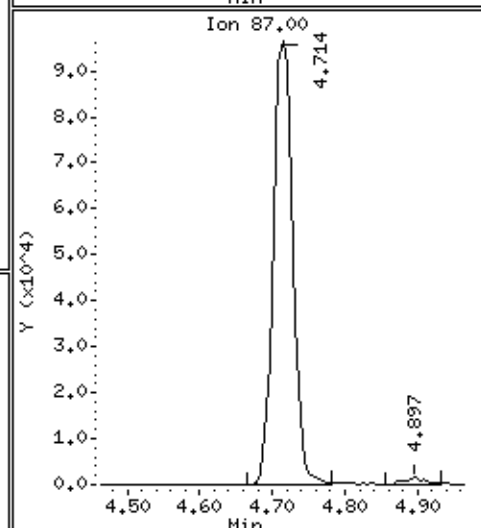
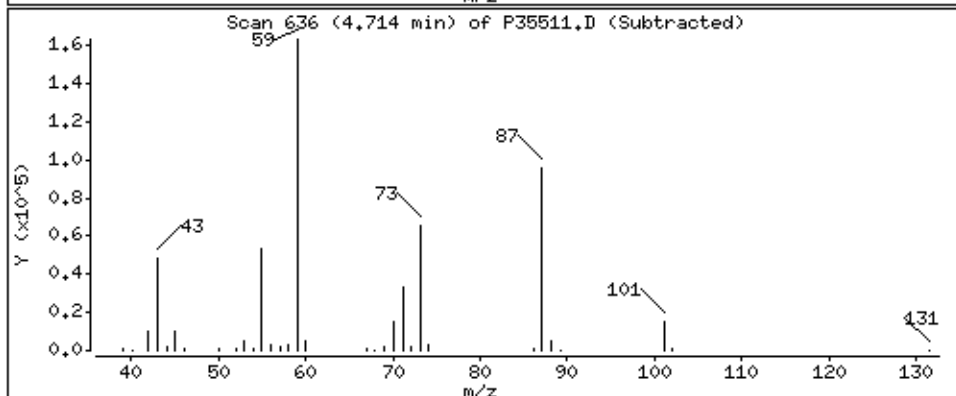
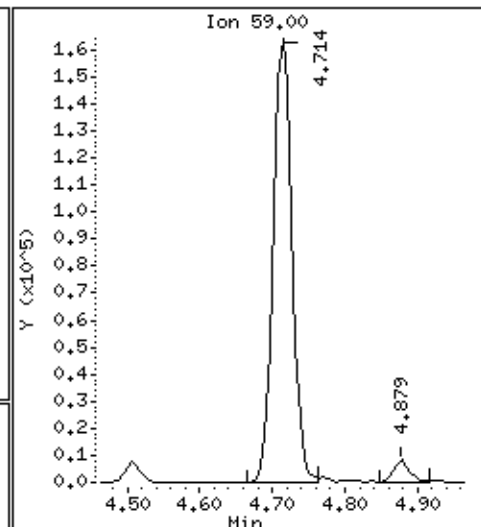
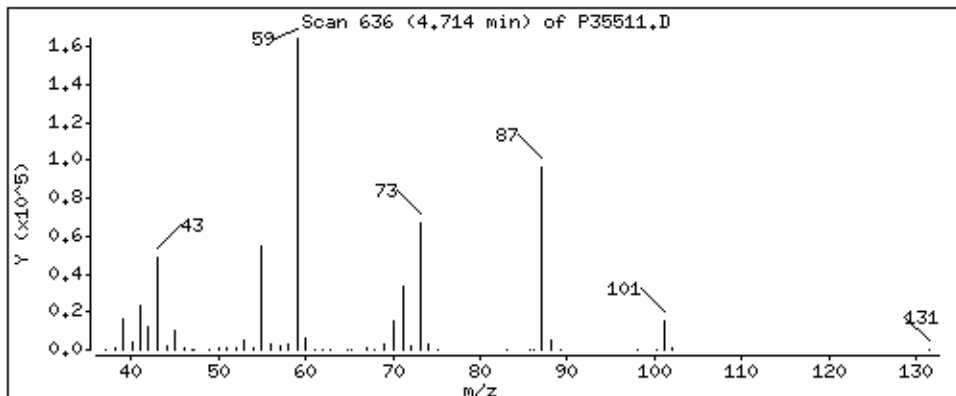
Column phase: RTX-624

Column diameter: 0,18

54 tert-Amyl ethyl ether

Concentration: 37,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

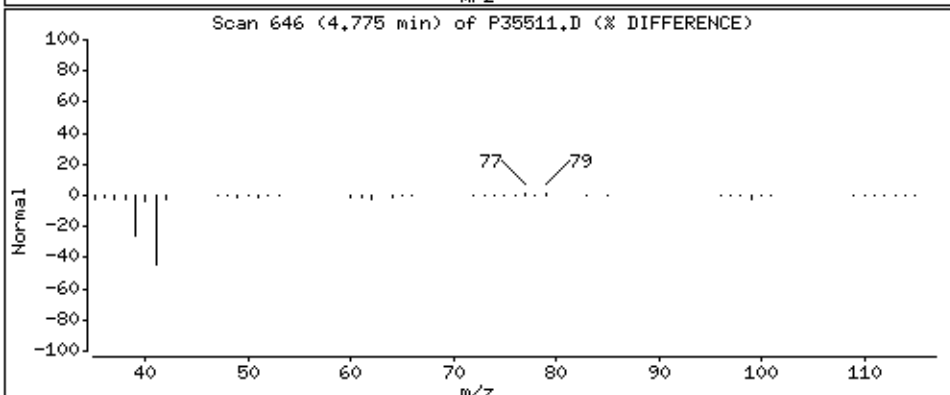
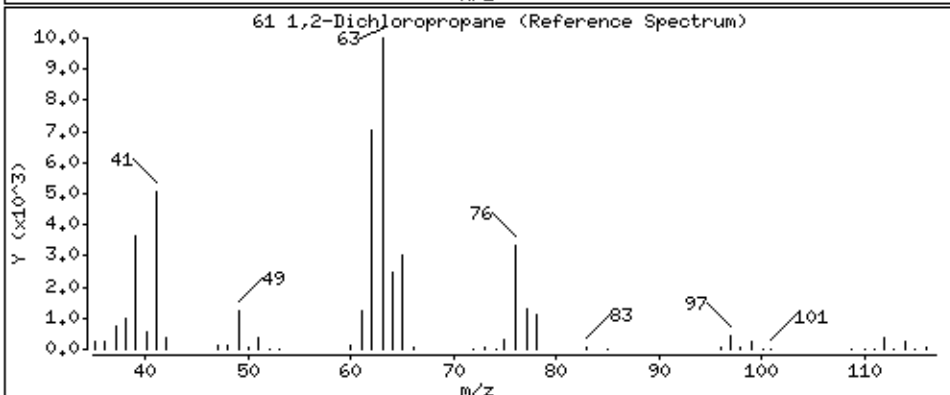
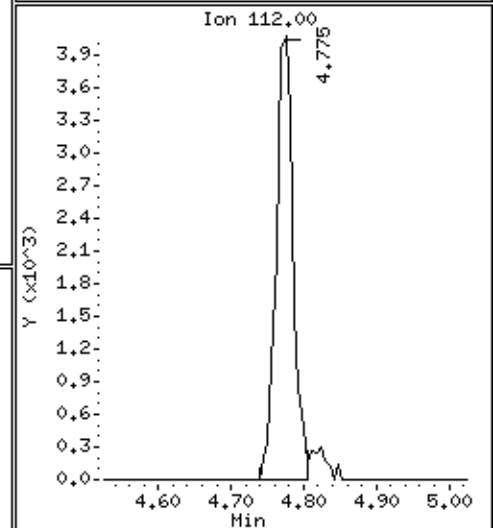
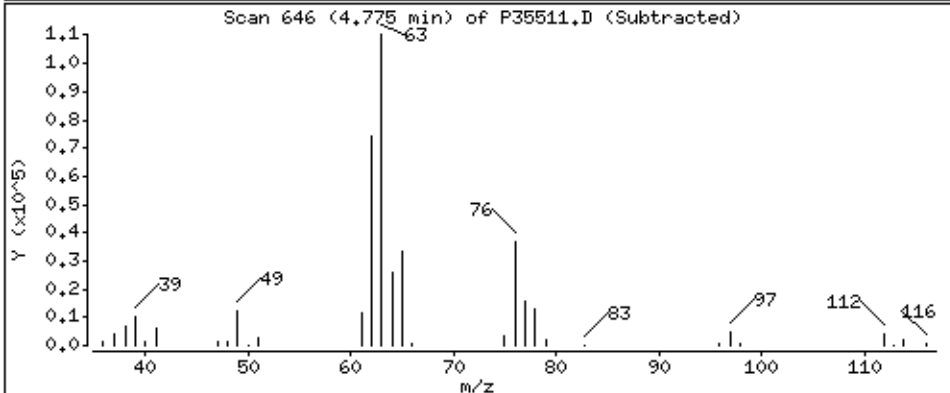
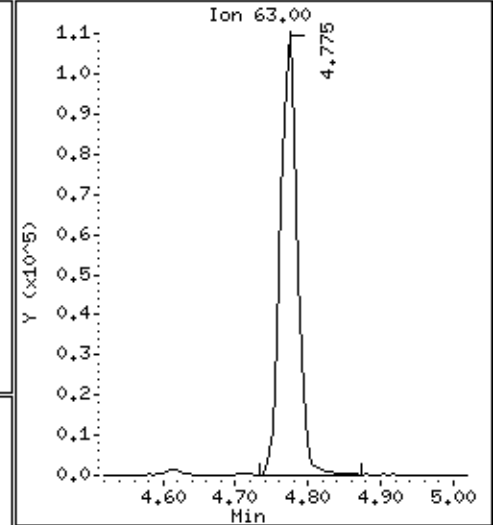
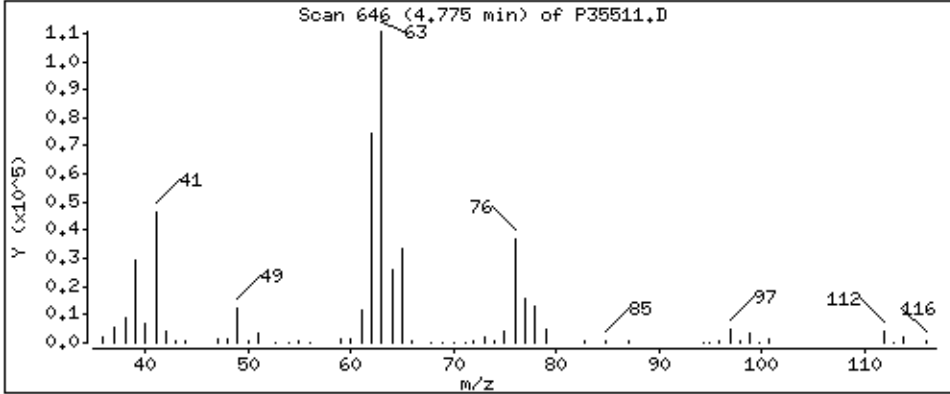
Column phase: RTX-624

Column diameter: 0.18

61 1,2-Dichloropropane

Concentration: 46.4 ug/L

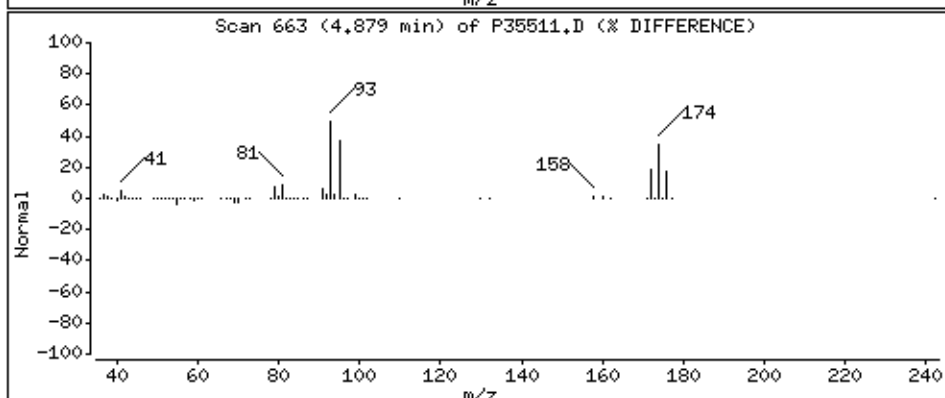
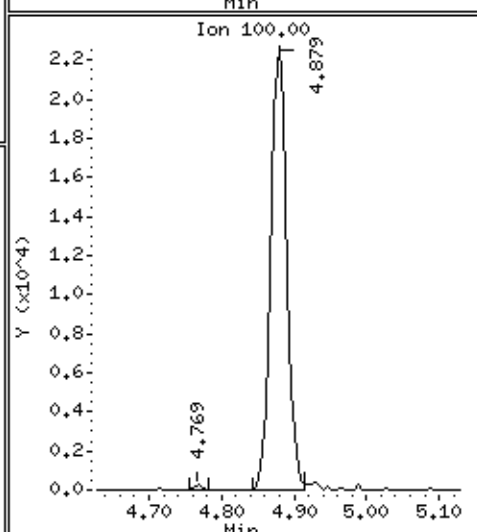
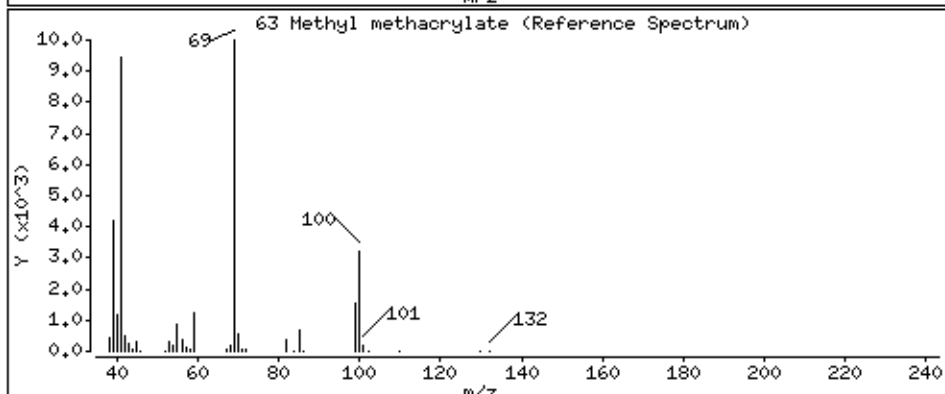
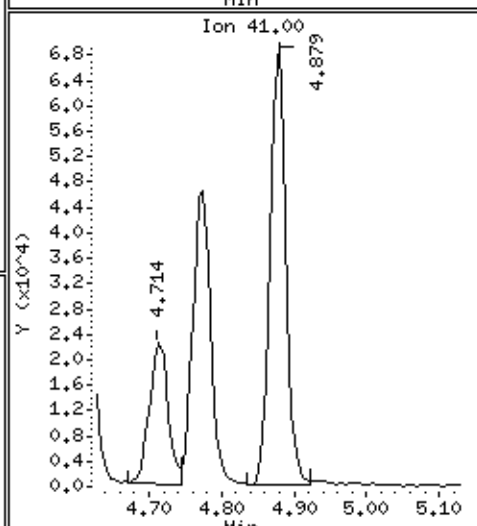
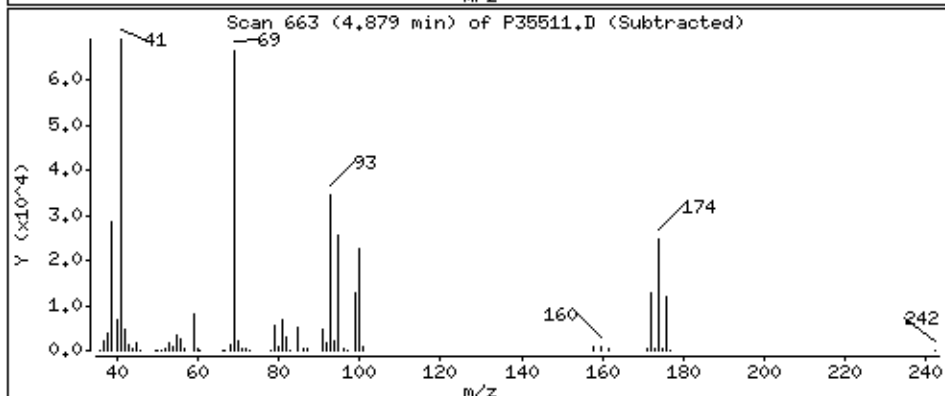
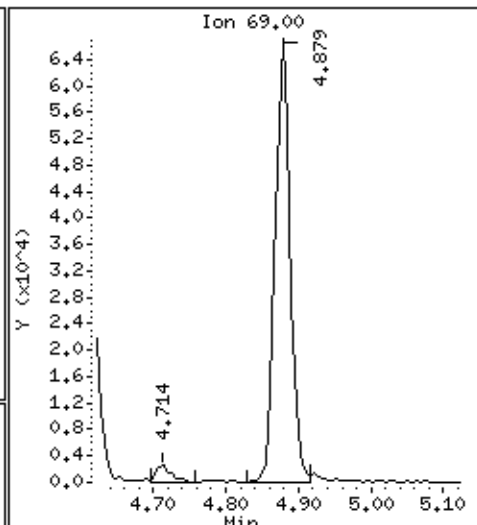
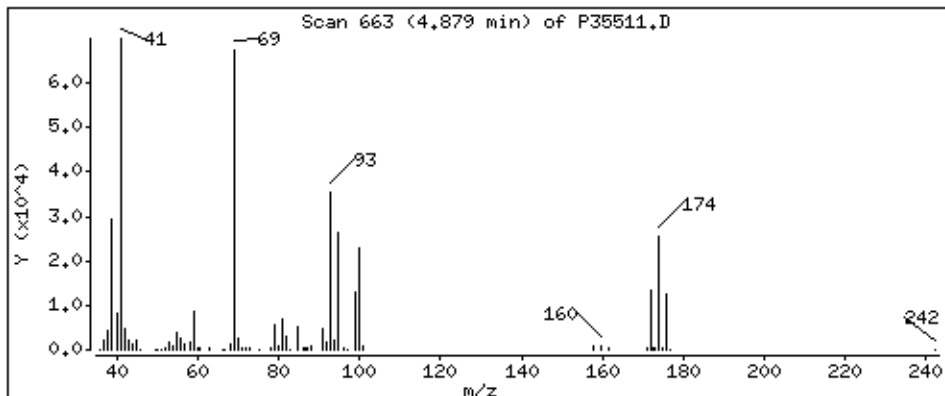
Review Code:



63 Methyl methacrylate

Concentration: 44,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

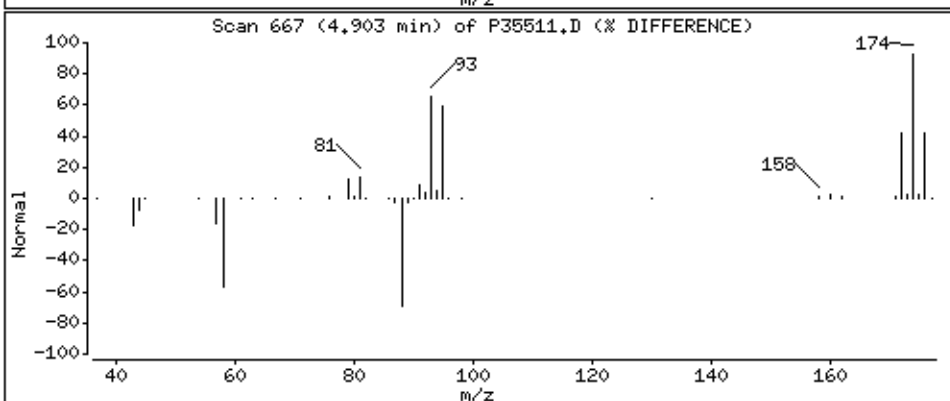
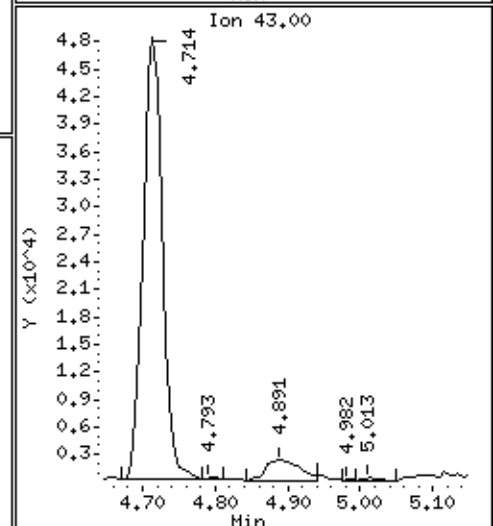
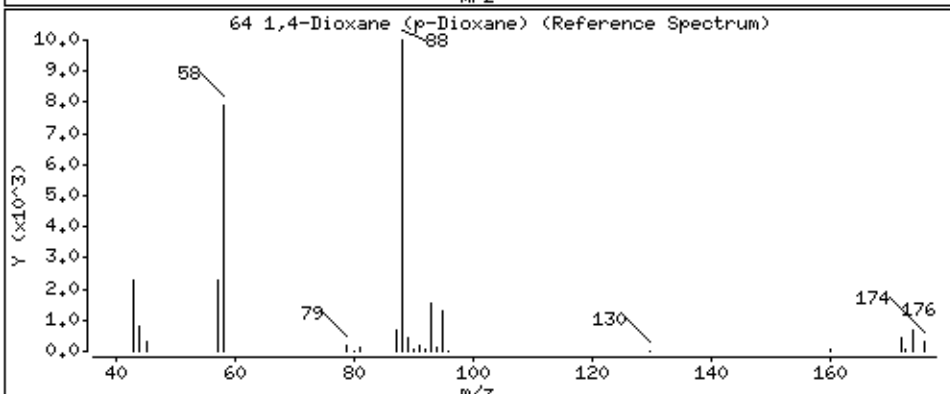
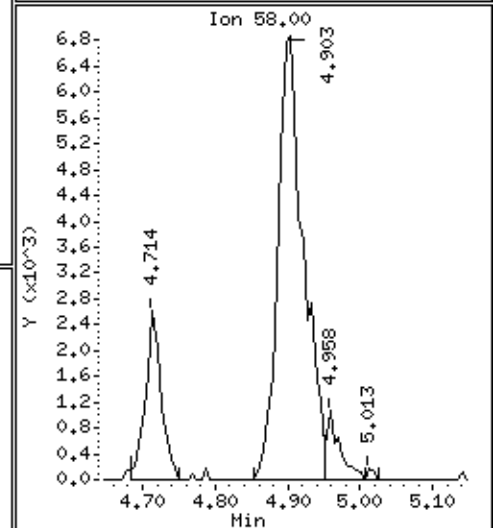
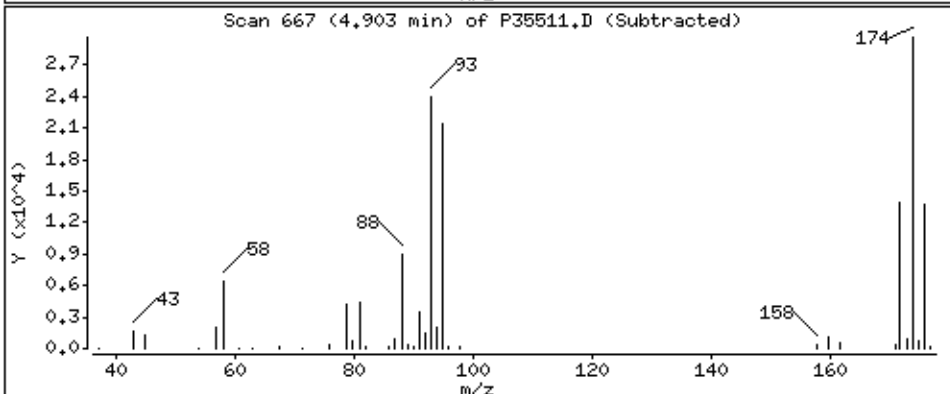
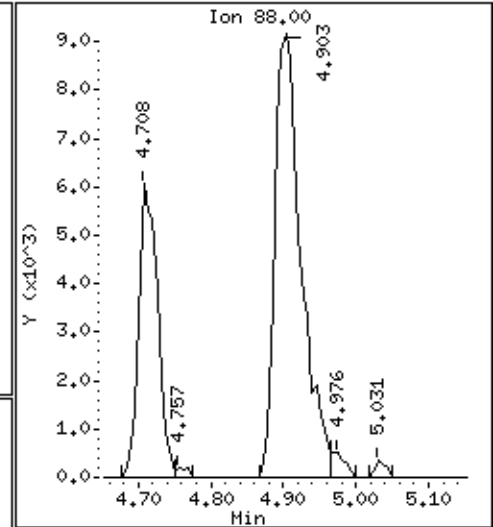
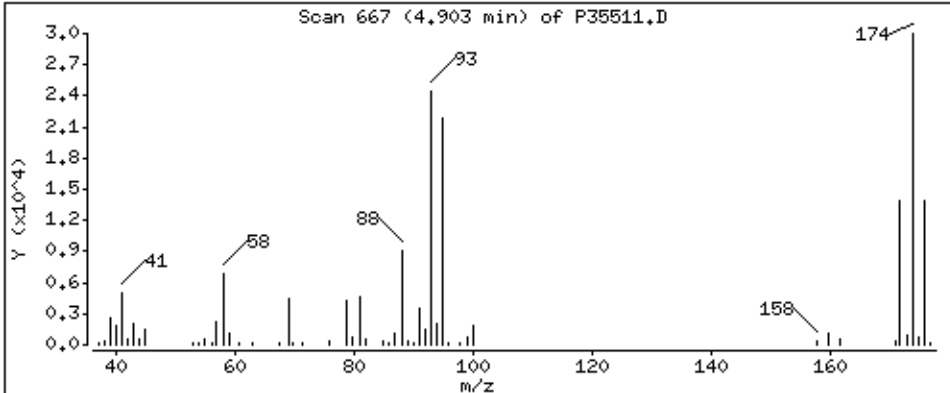
Column phase: RTX-624

Column diameter: 0.18

64 1,4-Dioxane (p-Dioxane)

Concentration: 1020 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

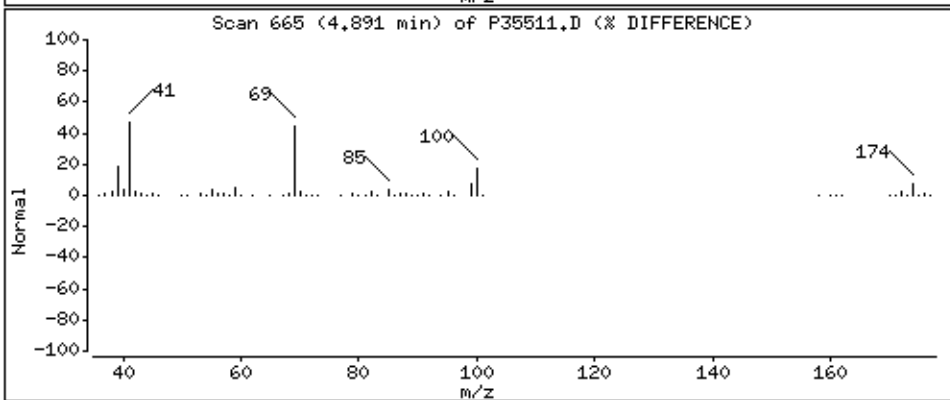
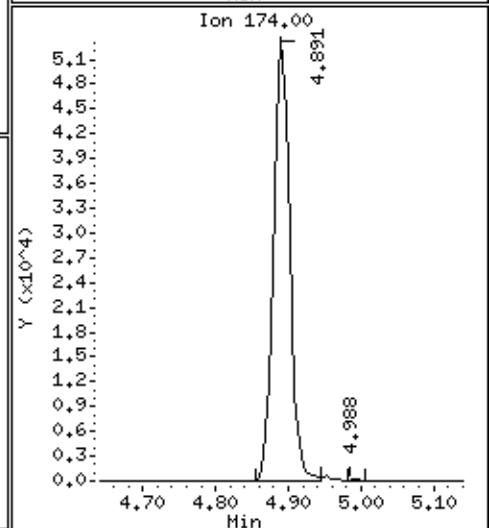
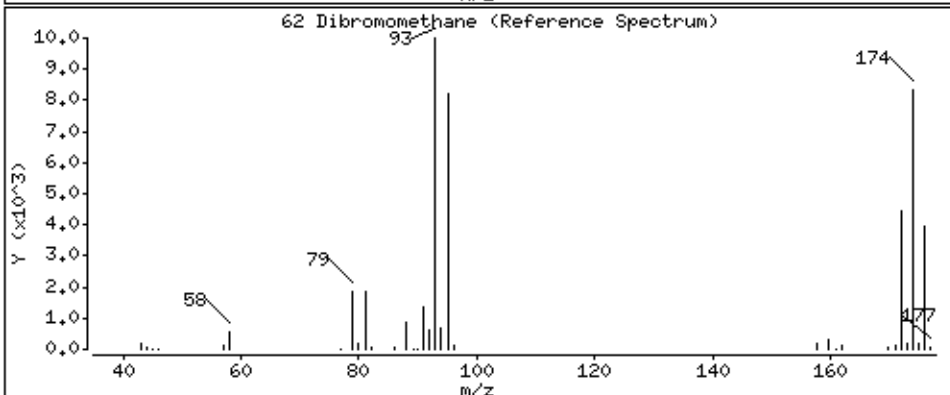
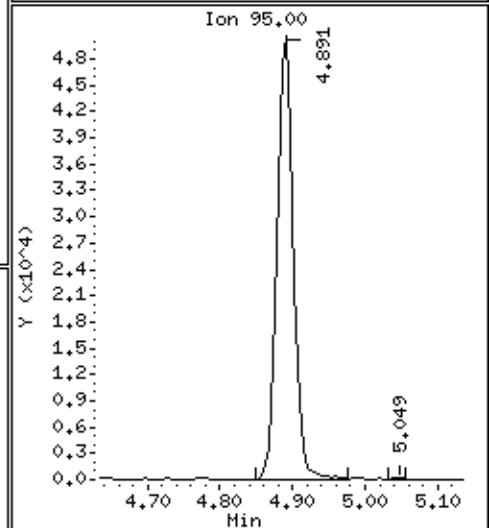
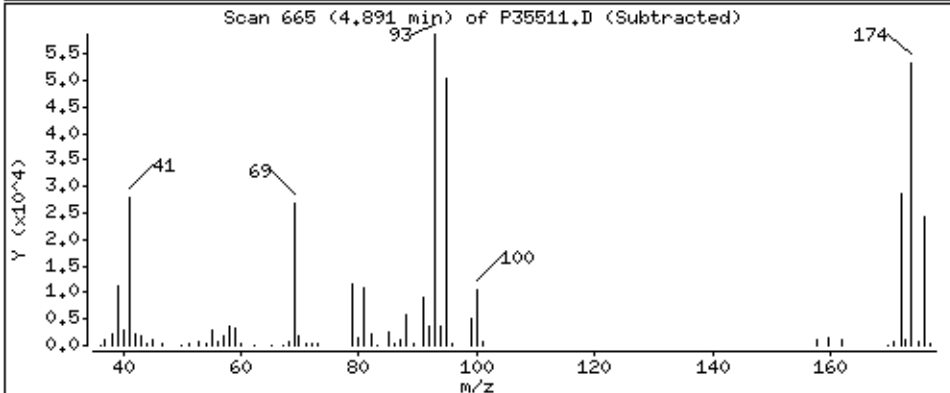
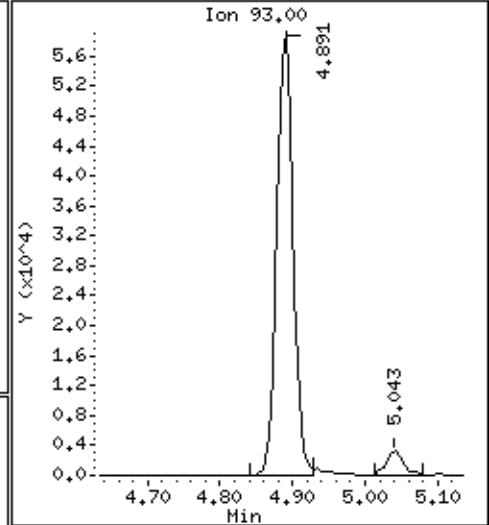
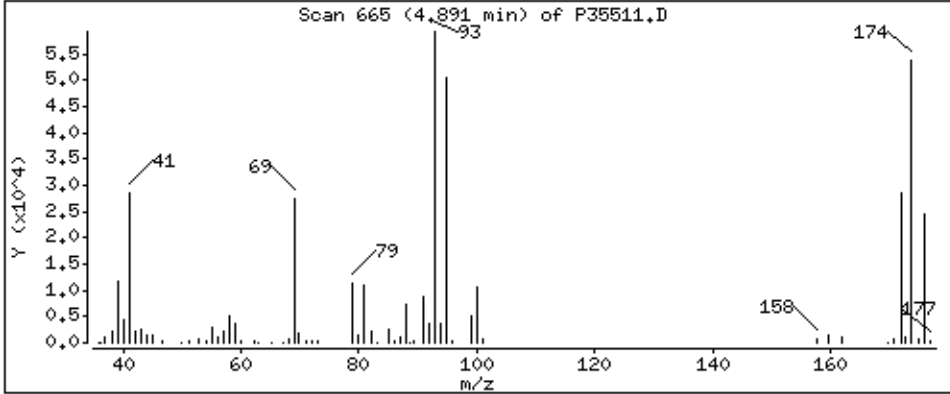
Column phase: RTX-624

Column diameter: 0,18

62 Dibromomethane

Concentration: 47,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

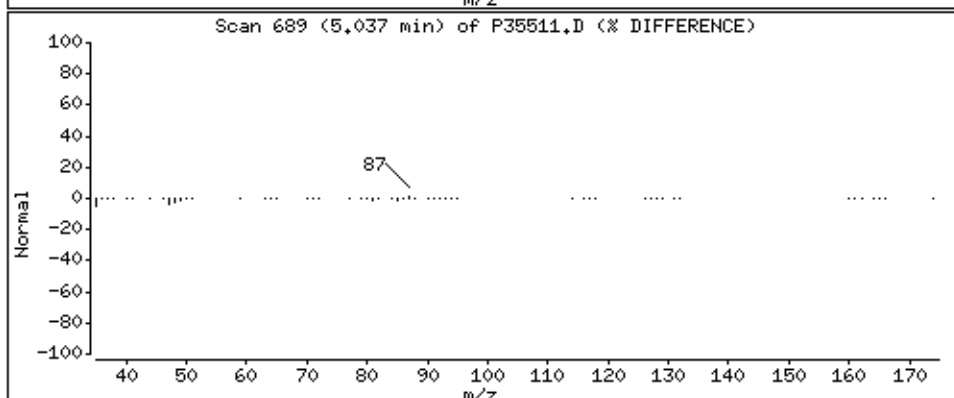
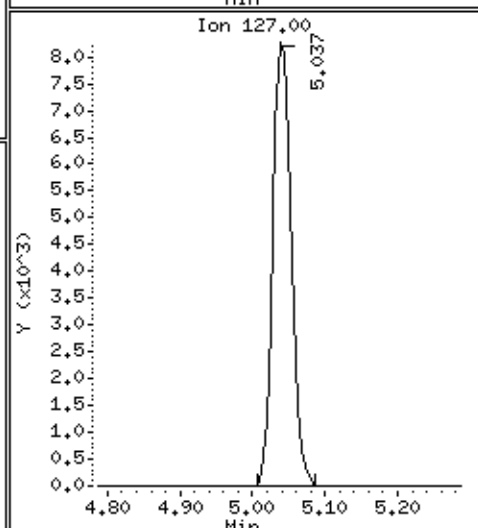
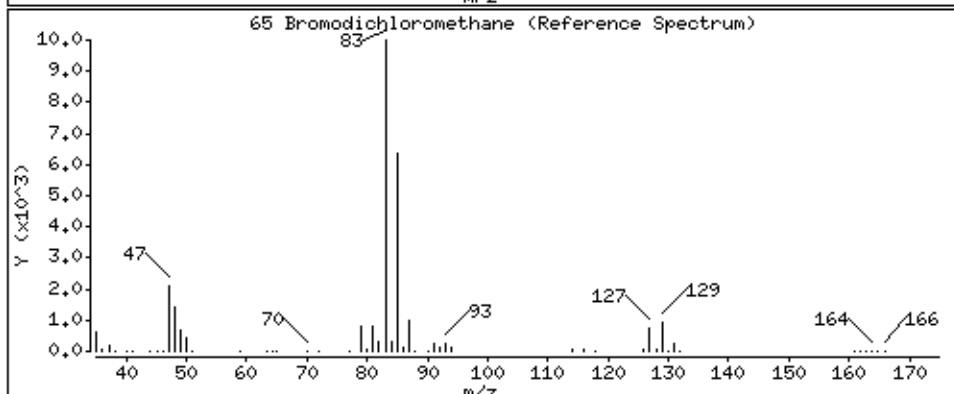
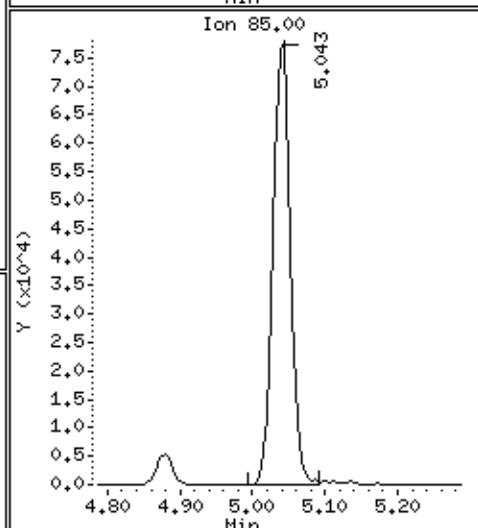
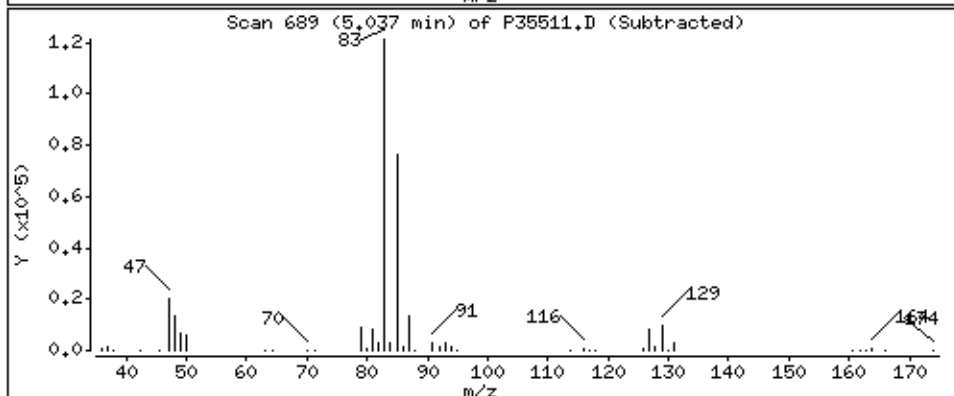
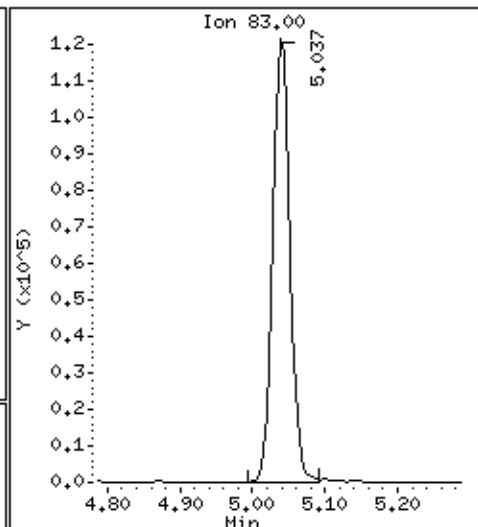
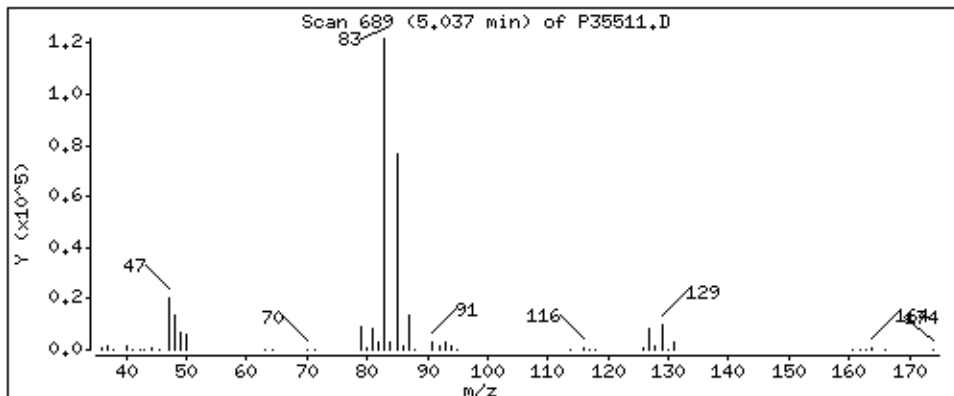
Column phase: RTX-624

Column diameter: 0,18

65 Bromodichloromethane

Concentration: 45,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

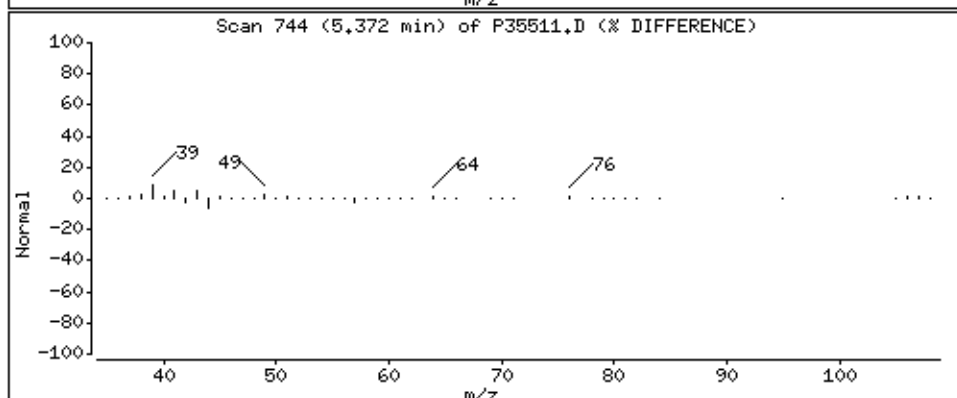
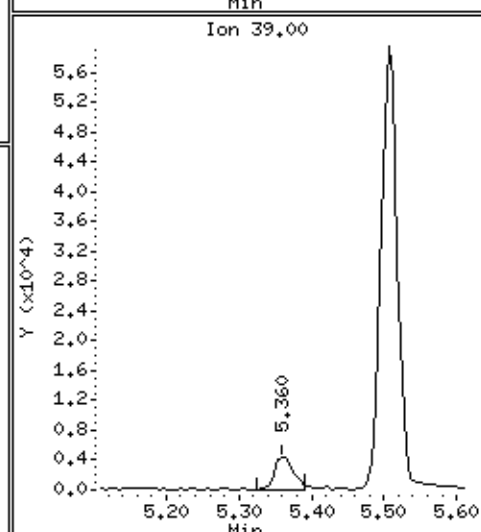
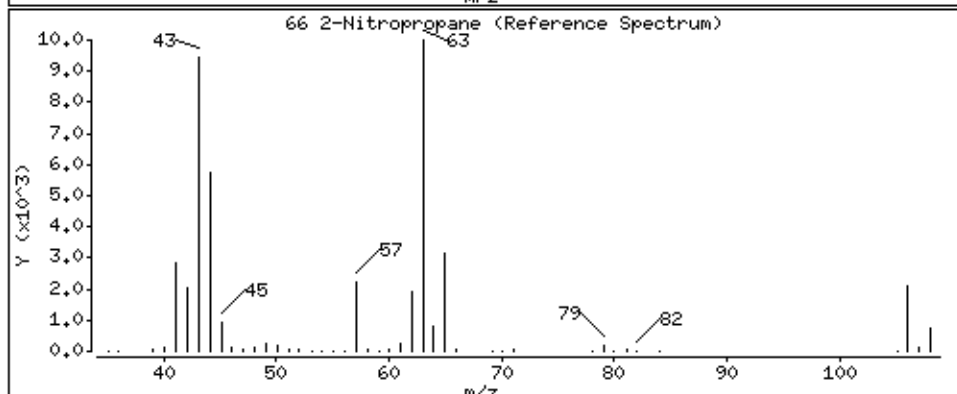
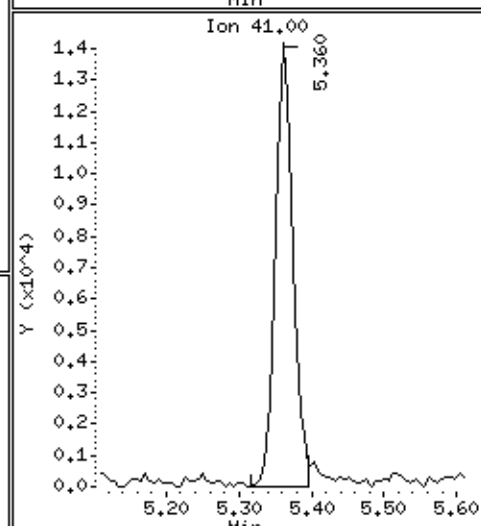
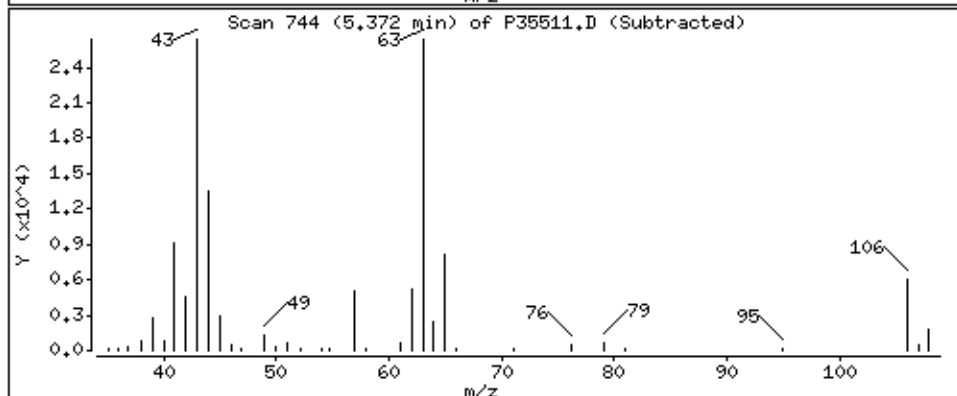
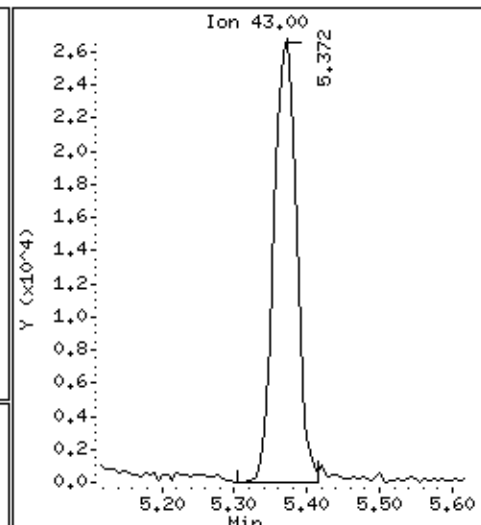
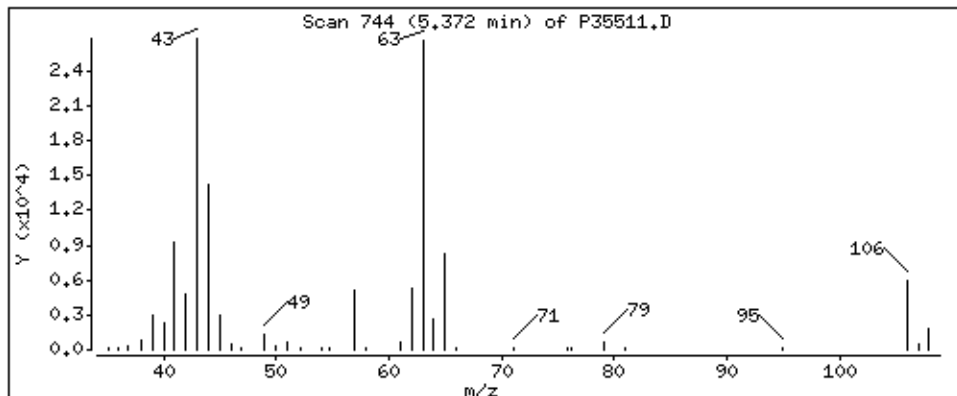
Column phase: RTX-624

Column diameter: 0,18

66 2-Nitropropane

Concentration: 33,7 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

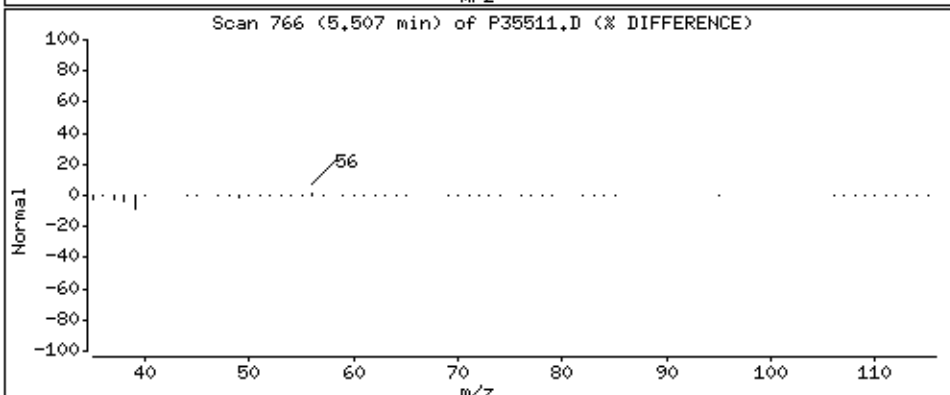
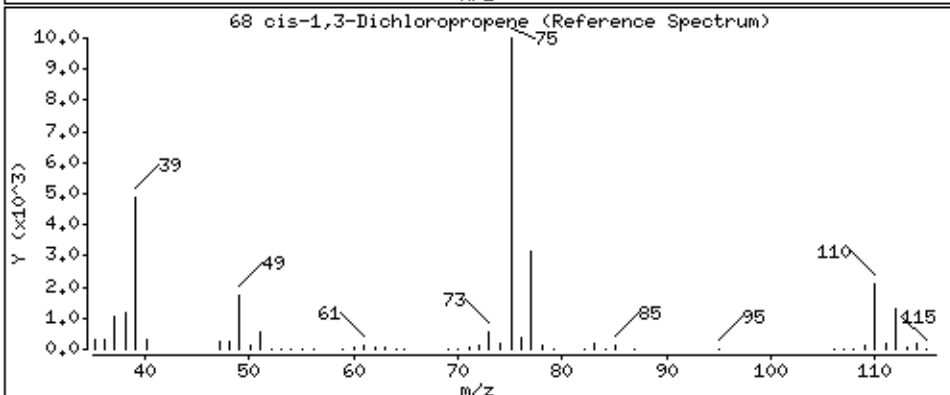
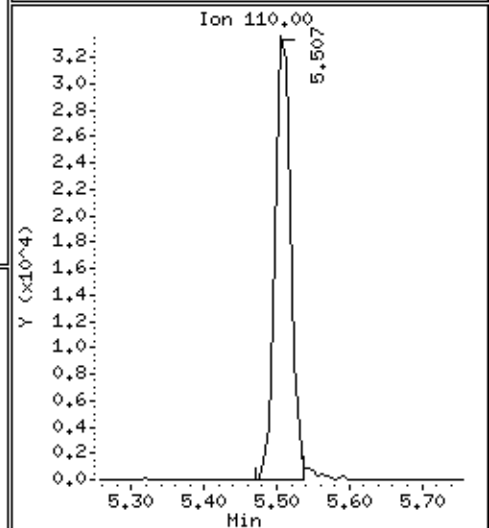
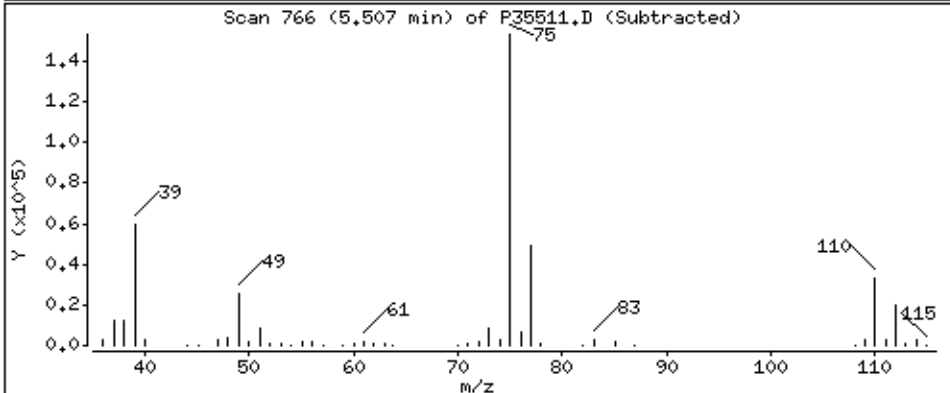
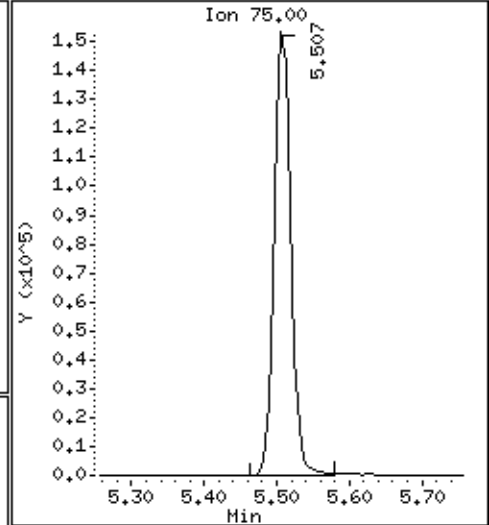
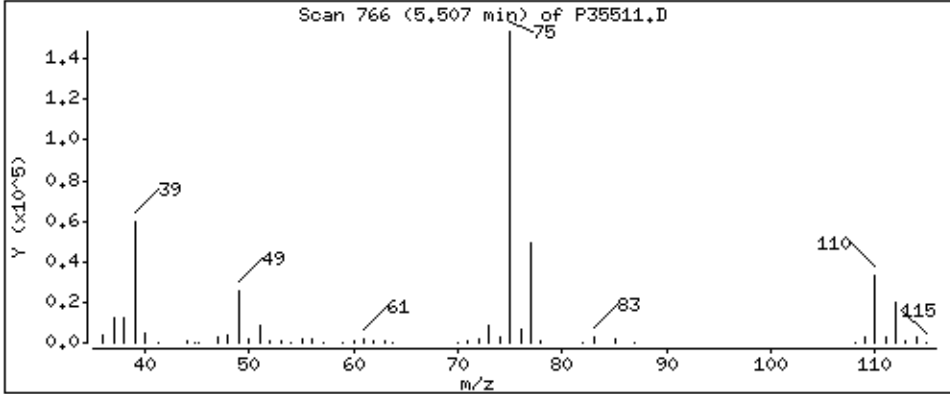
Column phase: RTX-624

Column diameter: 0.18

68 cis-1,3-Dichloropropene

Concentration: 46.3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

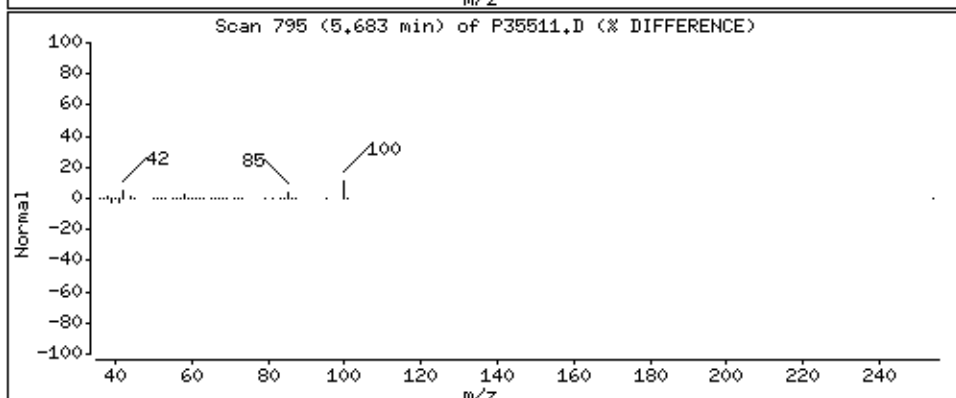
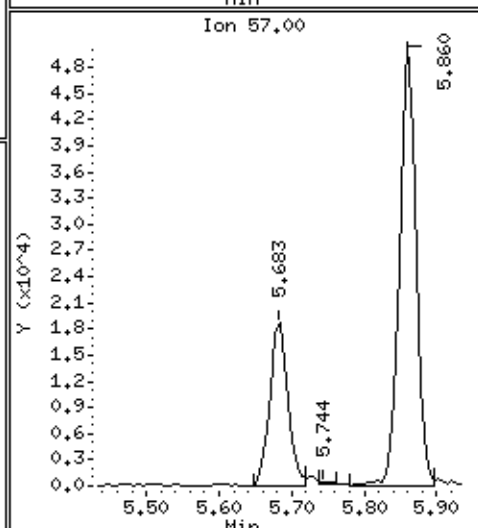
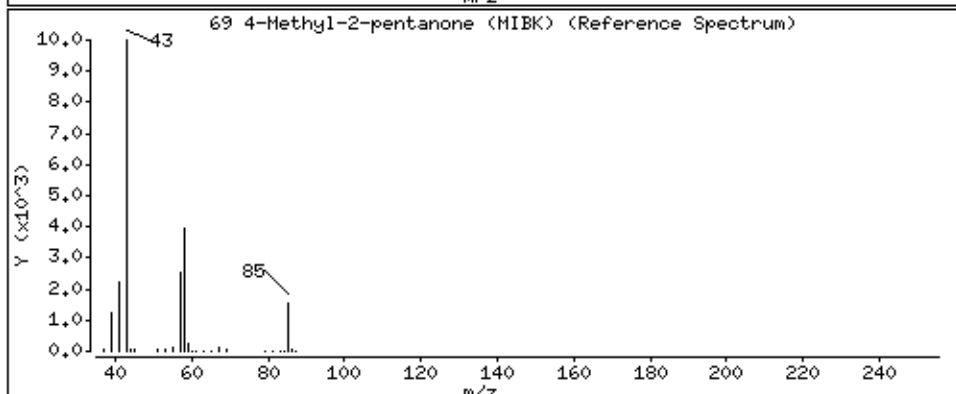
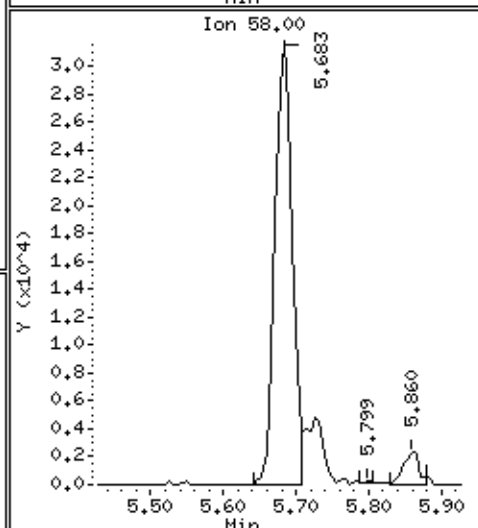
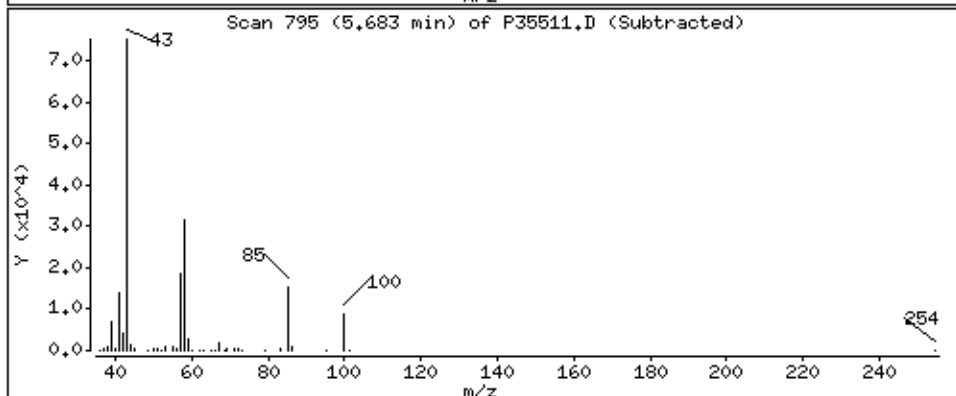
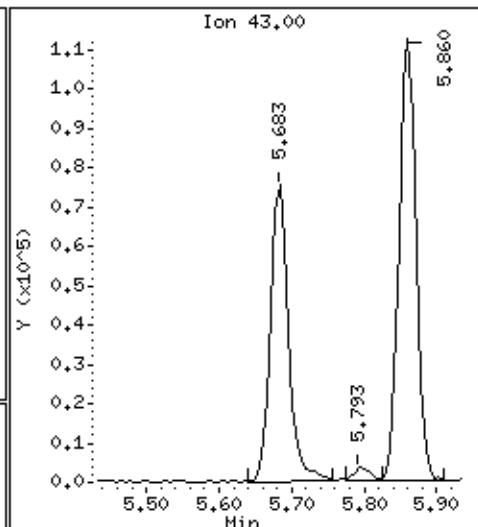
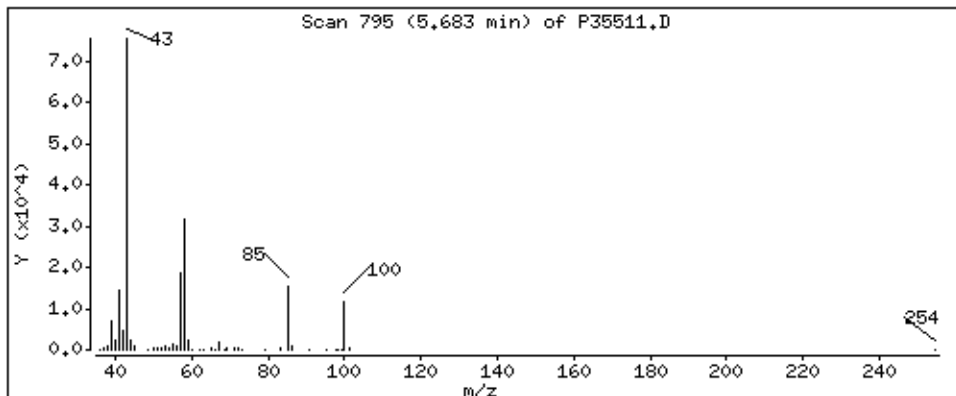
Column phase: RTX-624

Column diameter: 0,18

69 4-Methyl-2-pentanone (MIBK)

Concentration: 43.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

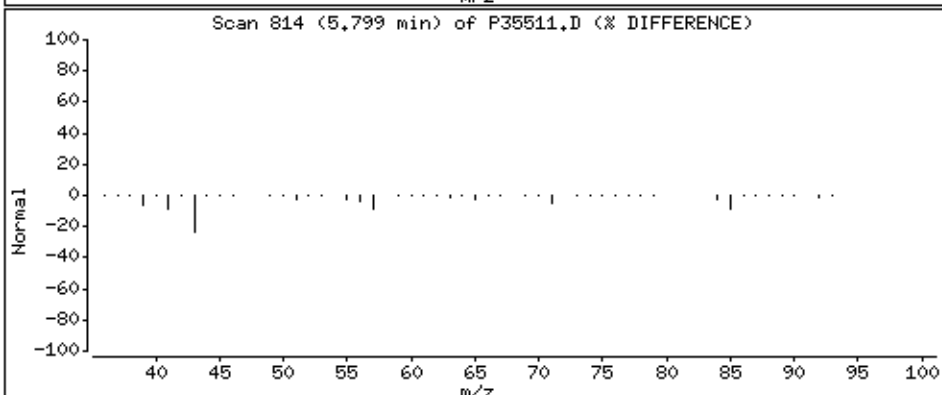
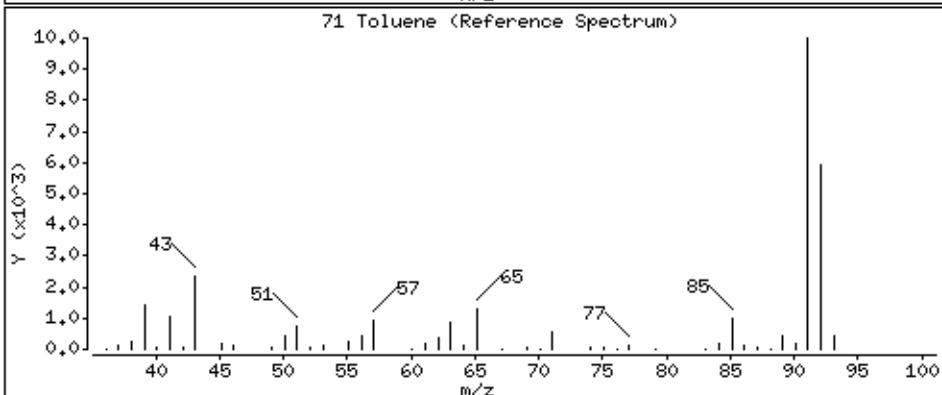
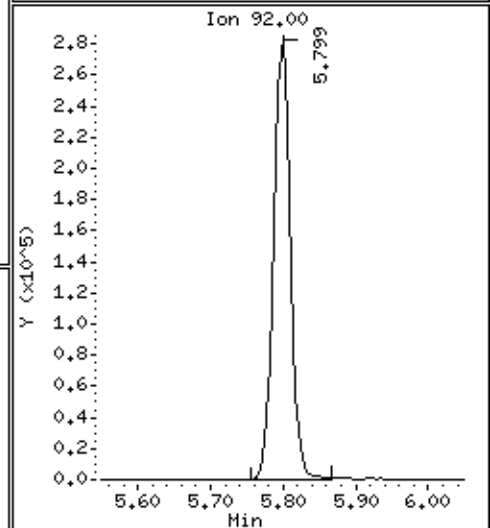
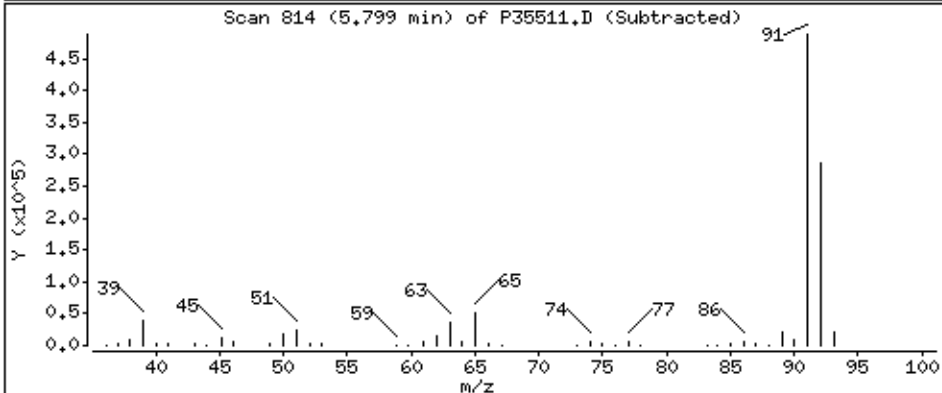
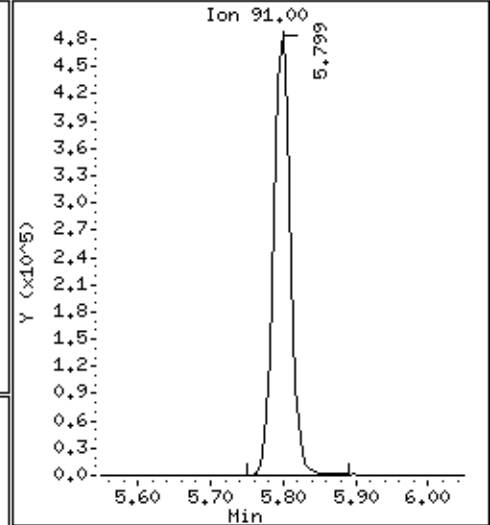
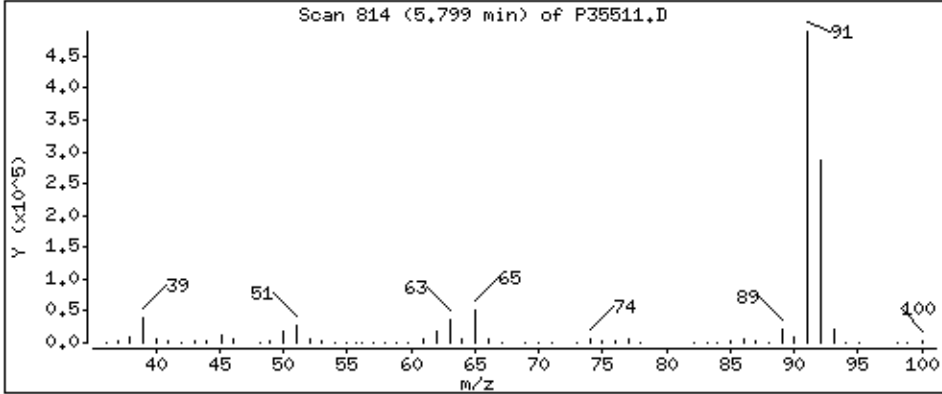
Column phase: RTX-624

Column diameter: 0.18

71 Toluene

Concentration: 49.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

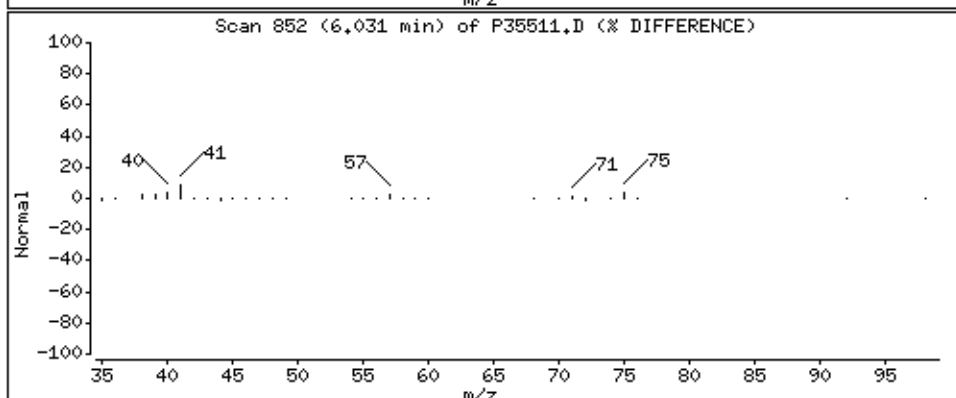
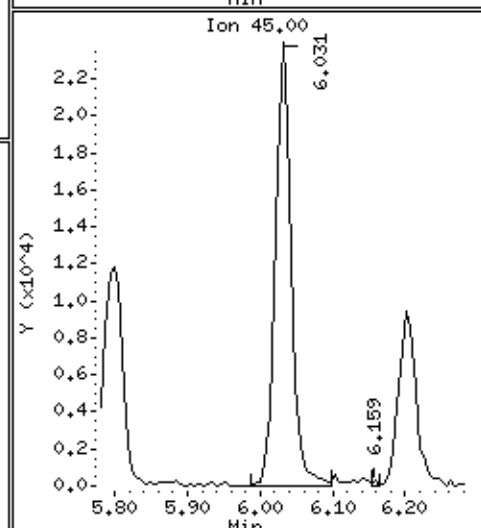
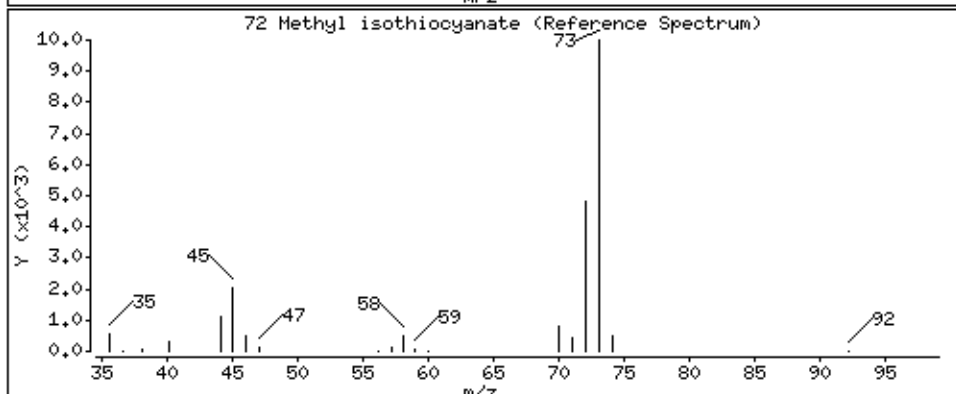
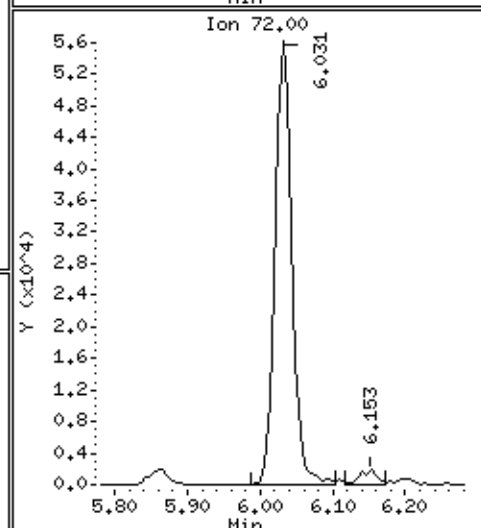
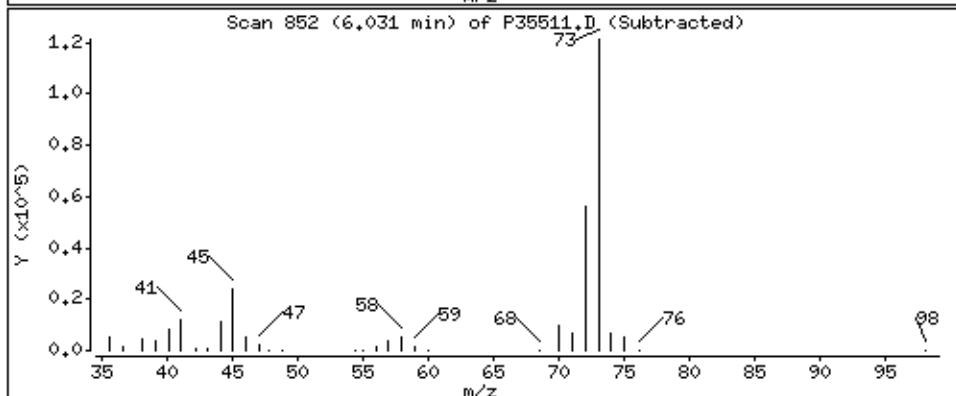
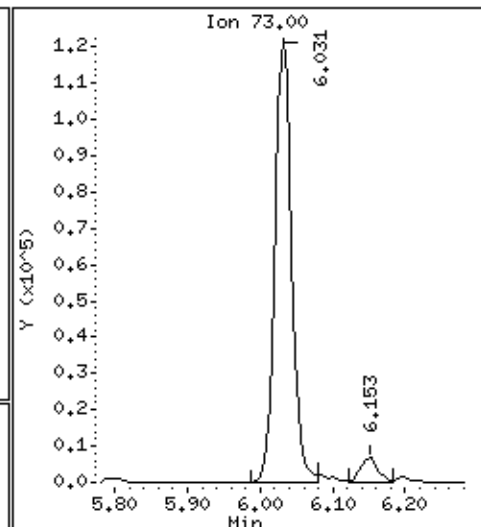
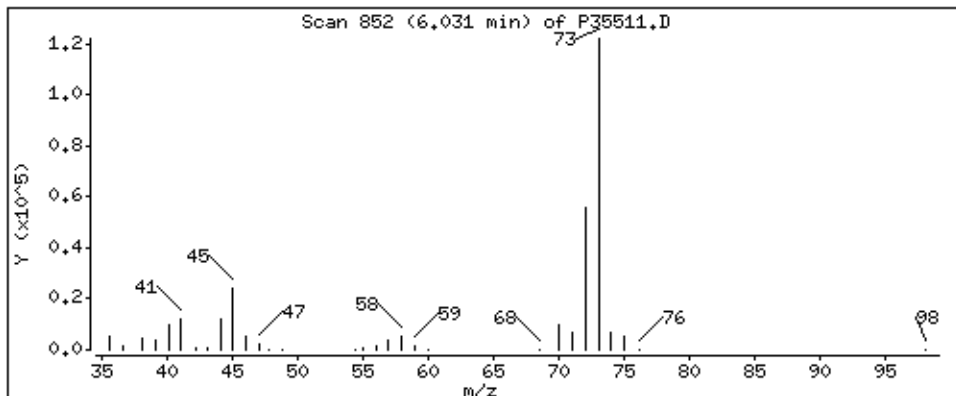
Column phase: RTX-624

Column diameter: 0.18

72 Methyl isothiocyanate

Concentration: 98.3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

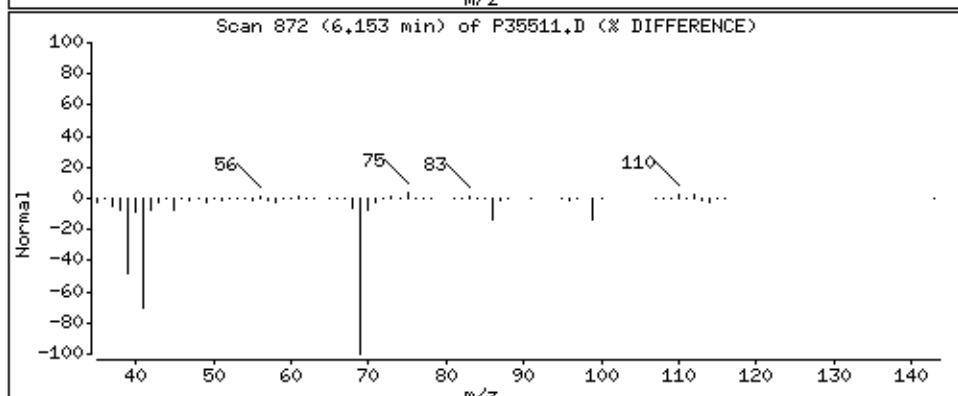
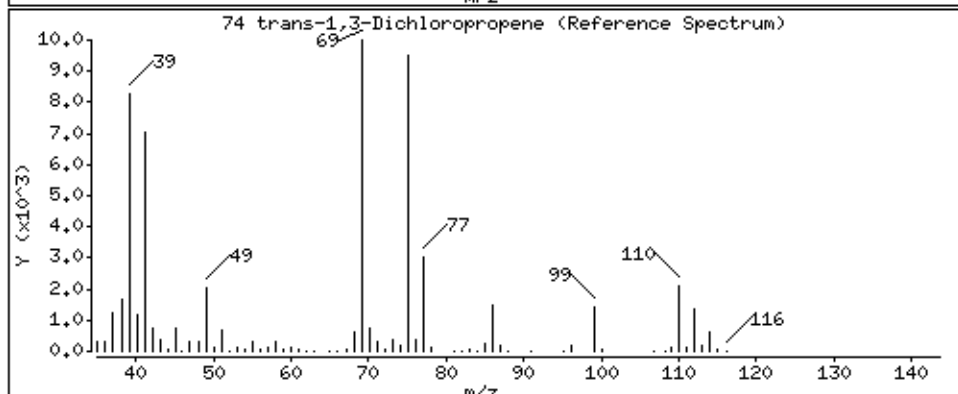
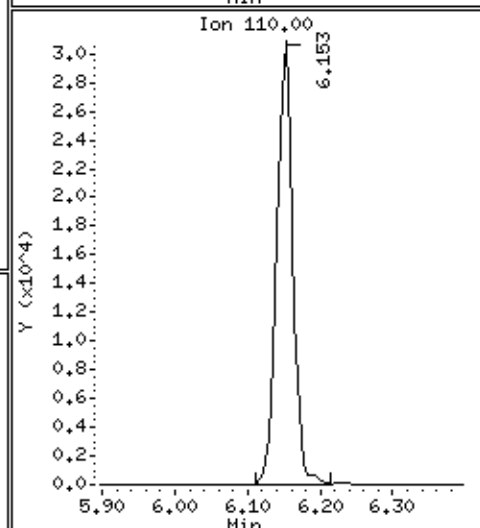
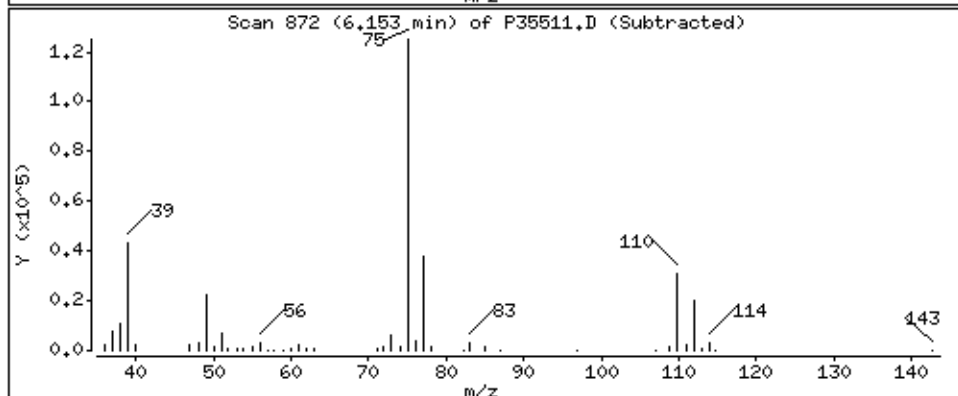
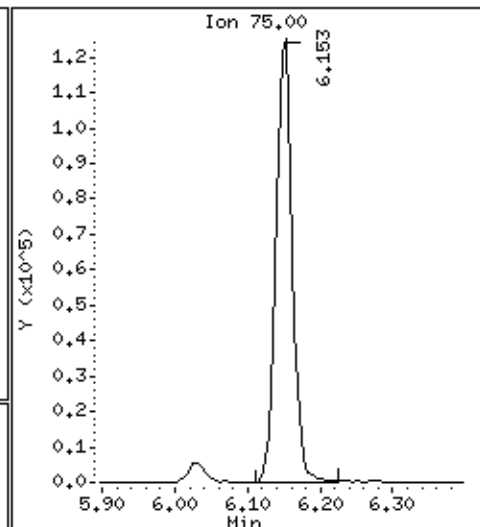
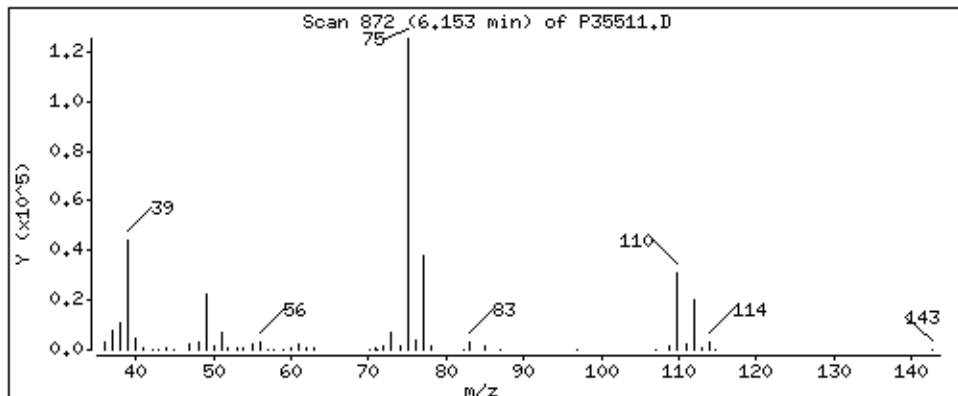
Column phase: RTX-624

Column diameter: 0.18

74 trans-1,3-Dichloropropene

Concentration: 43.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

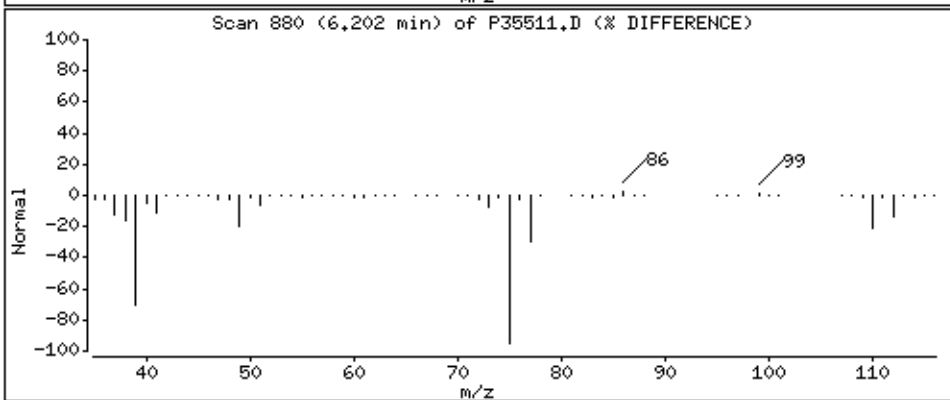
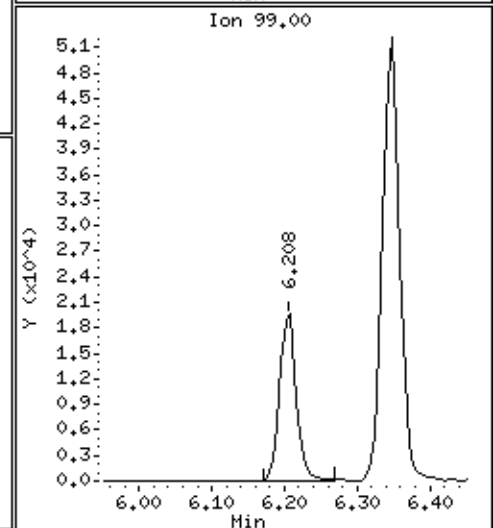
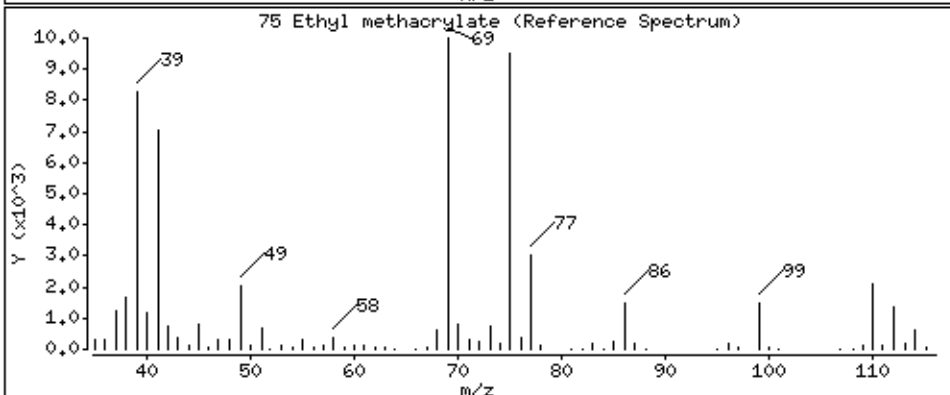
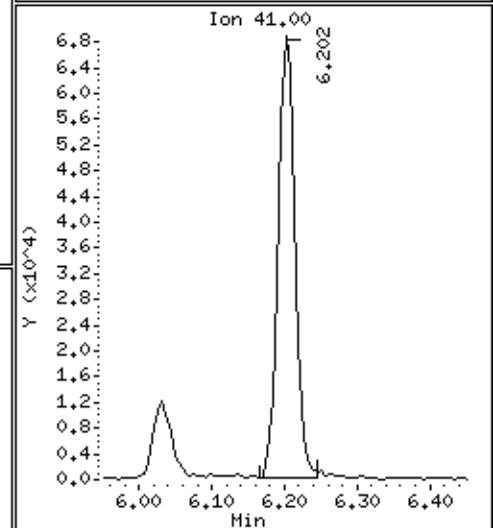
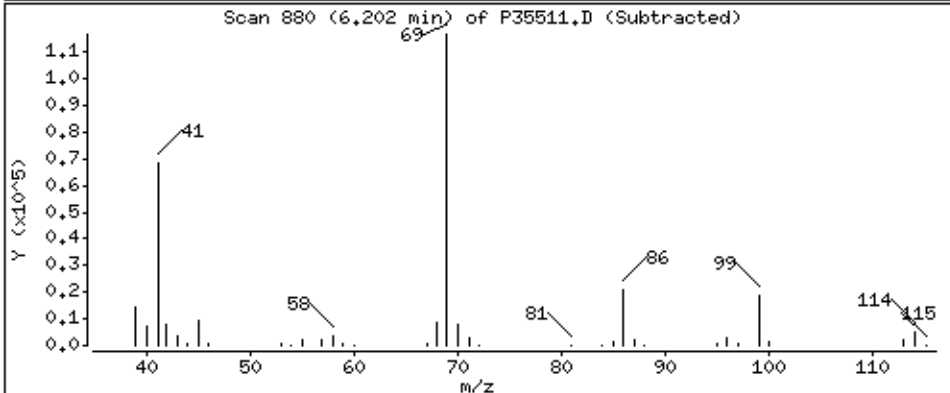
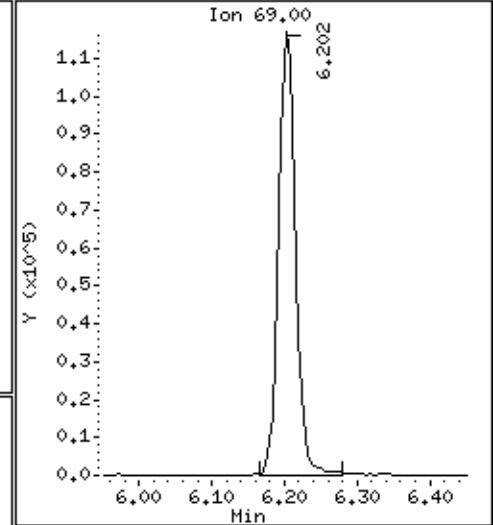
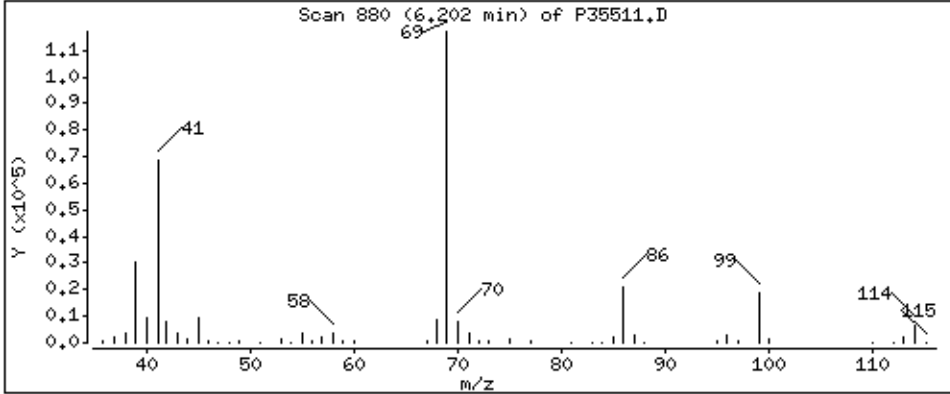
Column phase: RTX-624

Column diameter: 0,18

75 Ethyl methacrylate

Concentration: 46,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

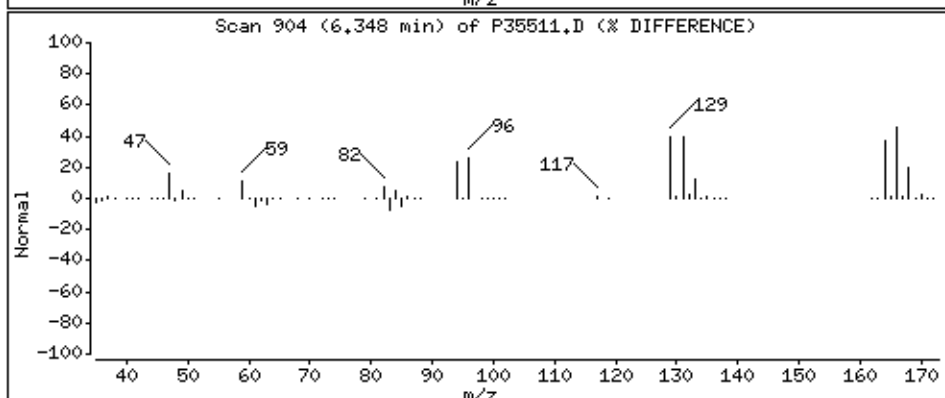
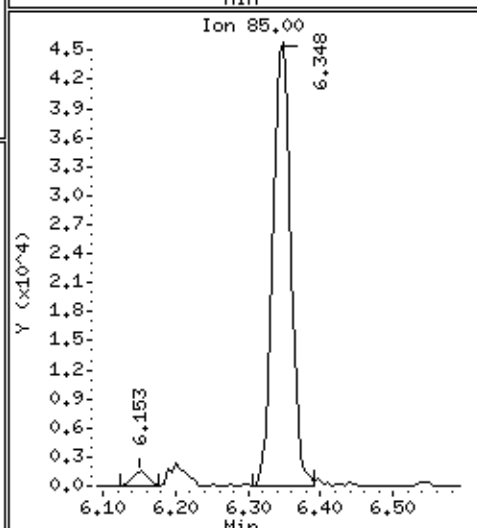
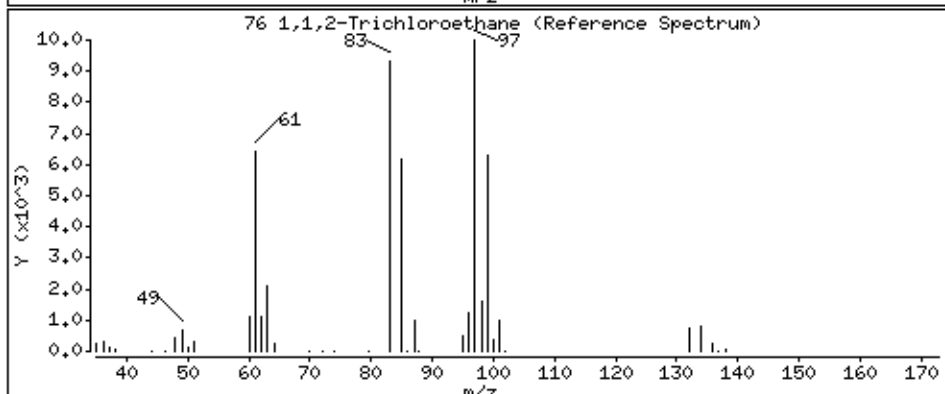
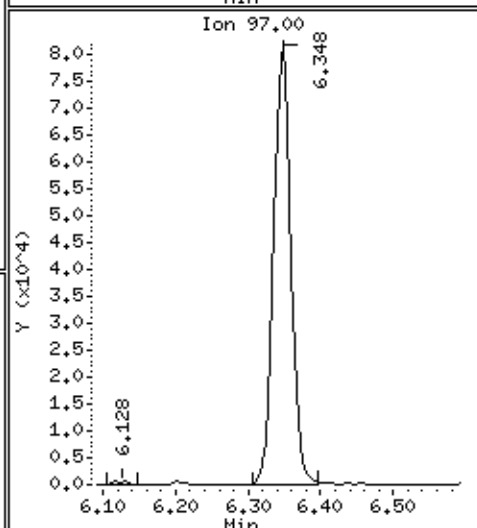
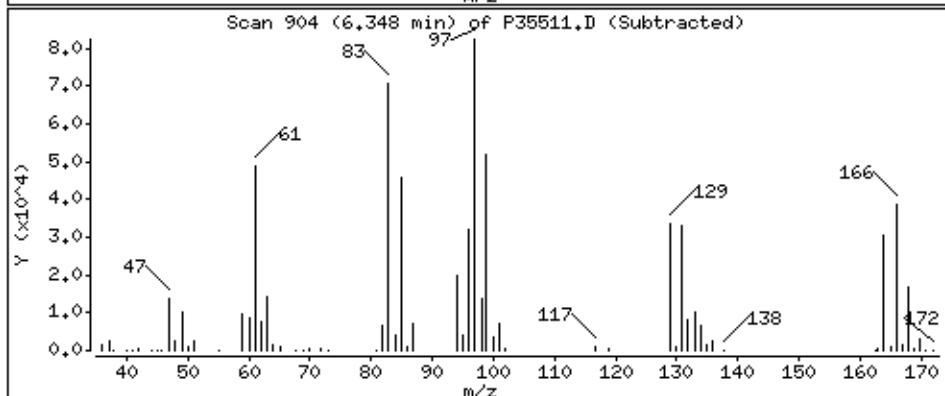
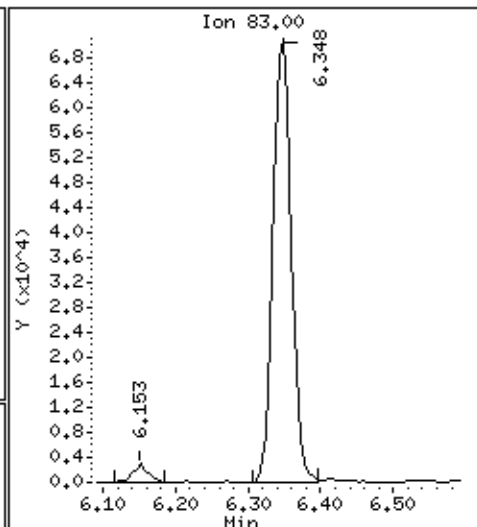
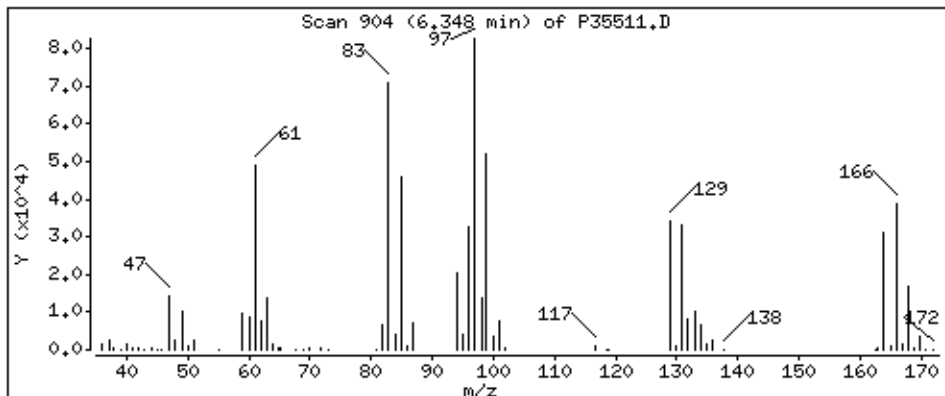
Column phase: RTX-624

Column diameter: 0,18

76 1,1,2-Trichloroethane

Concentration: 46,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

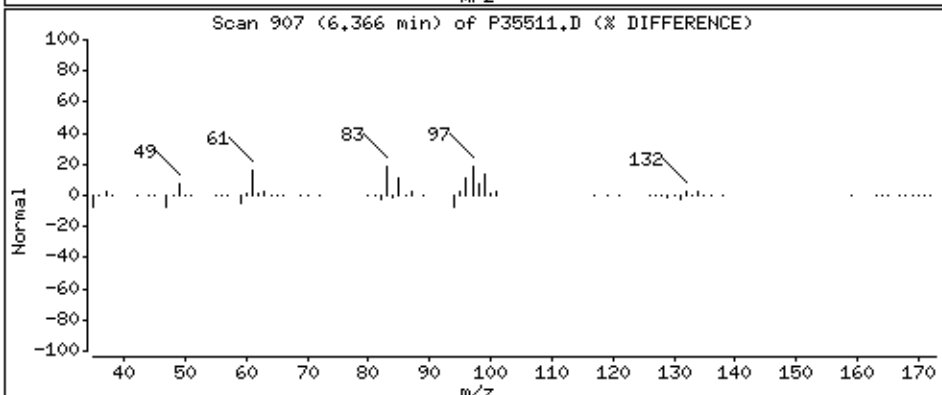
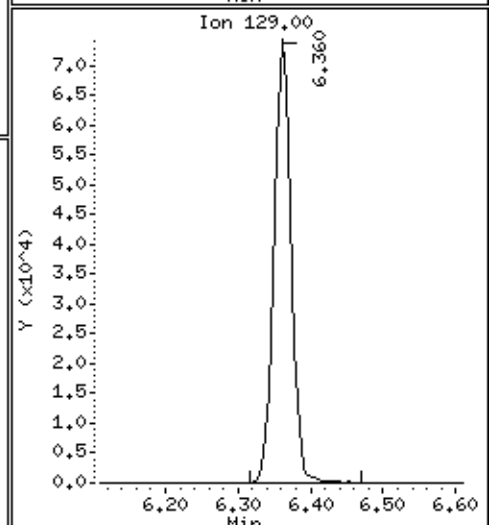
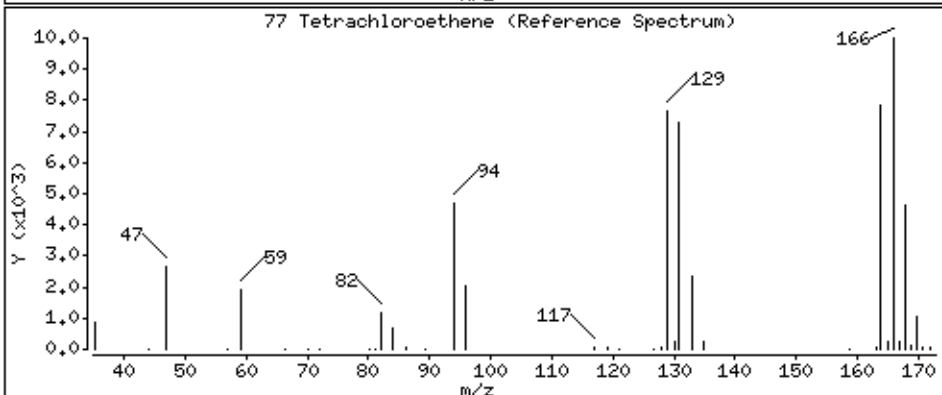
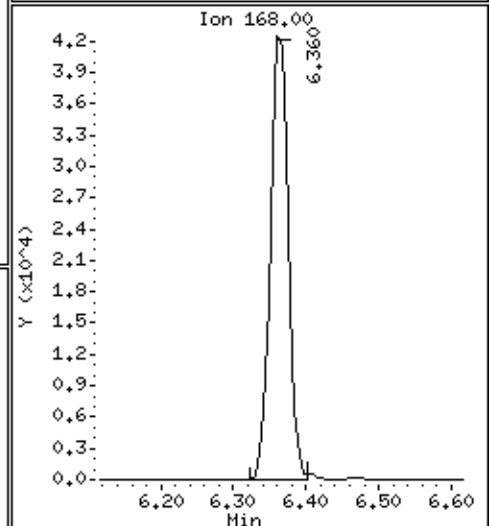
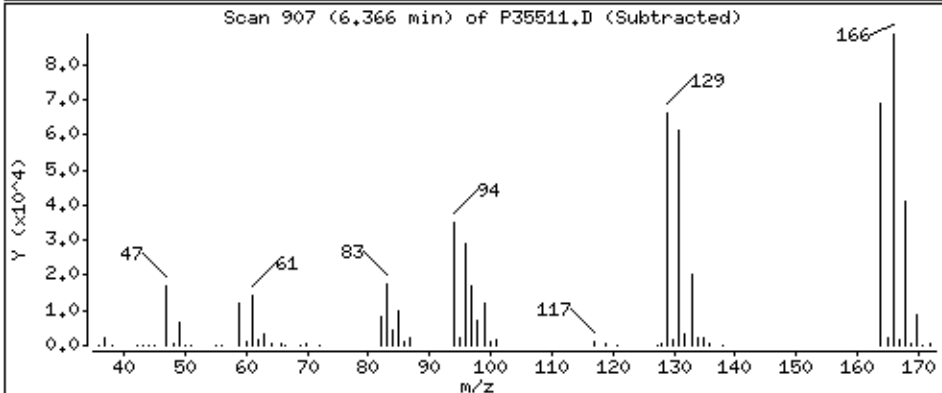
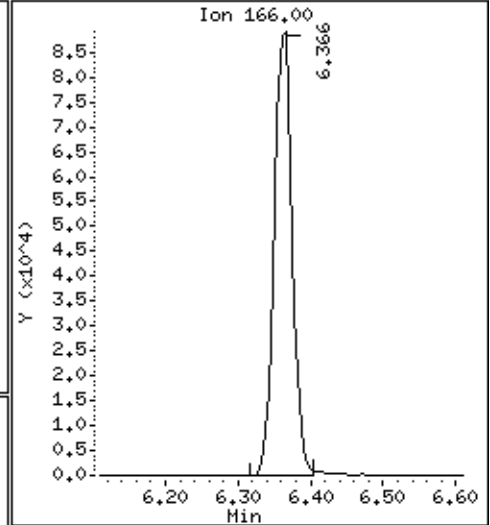
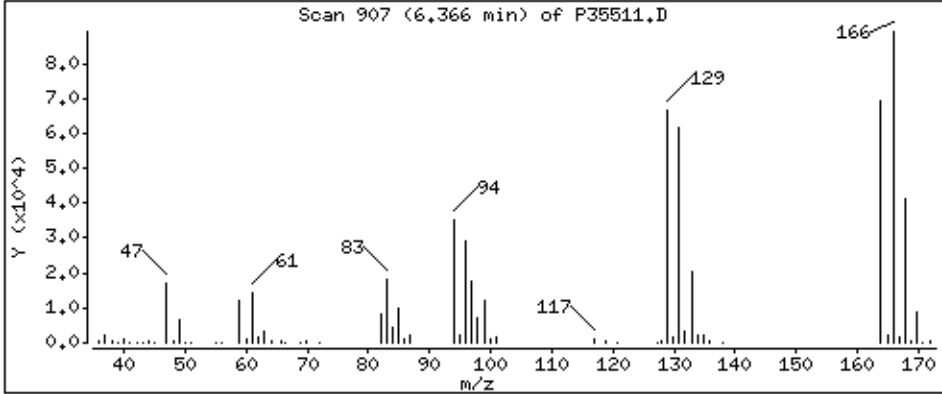
Column phase: RTX-624

Column diameter: 0,18

77 Tetrachloroethene

Concentration: 43.0 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

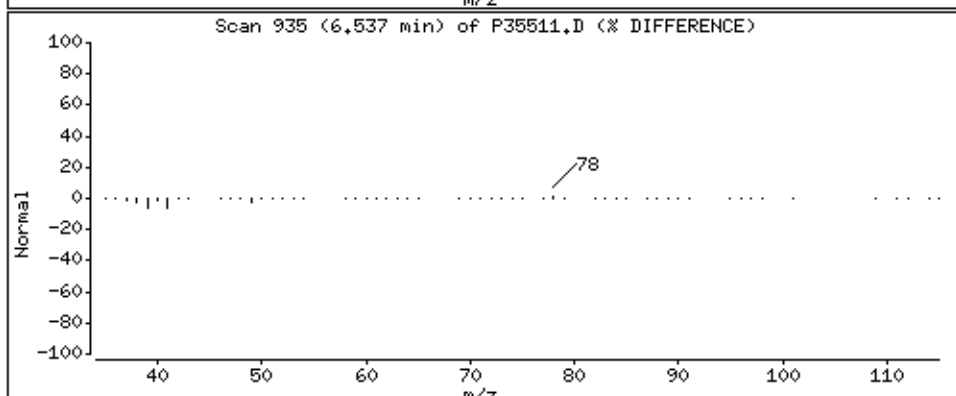
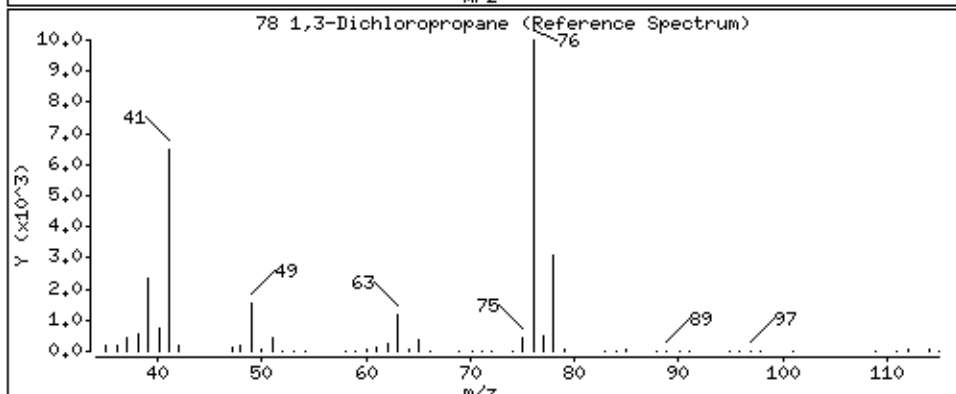
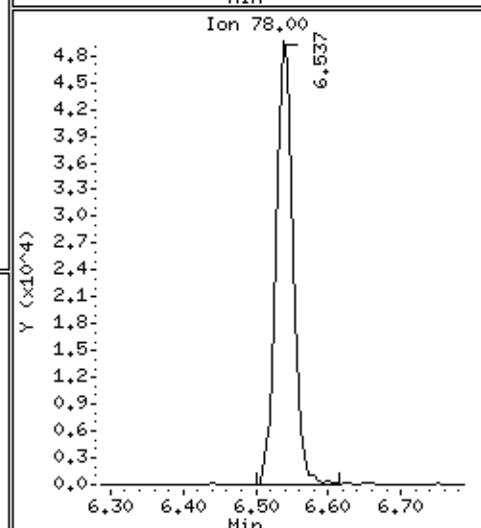
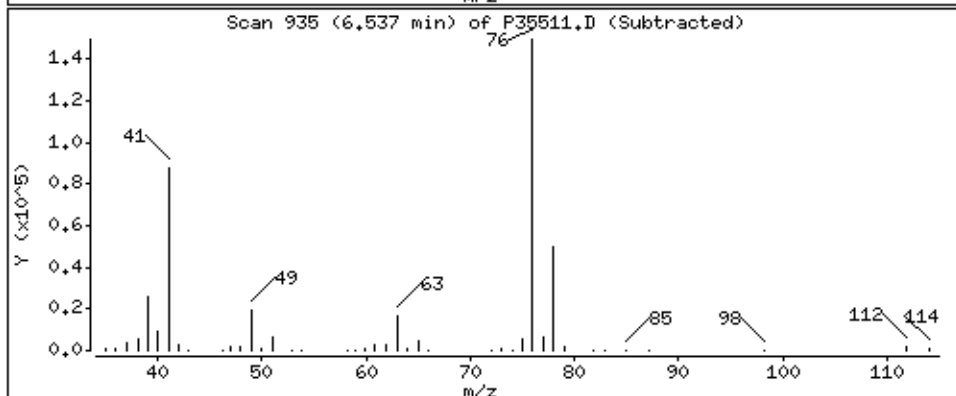
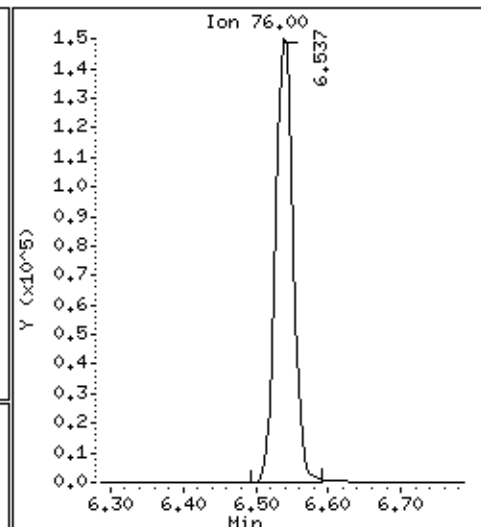
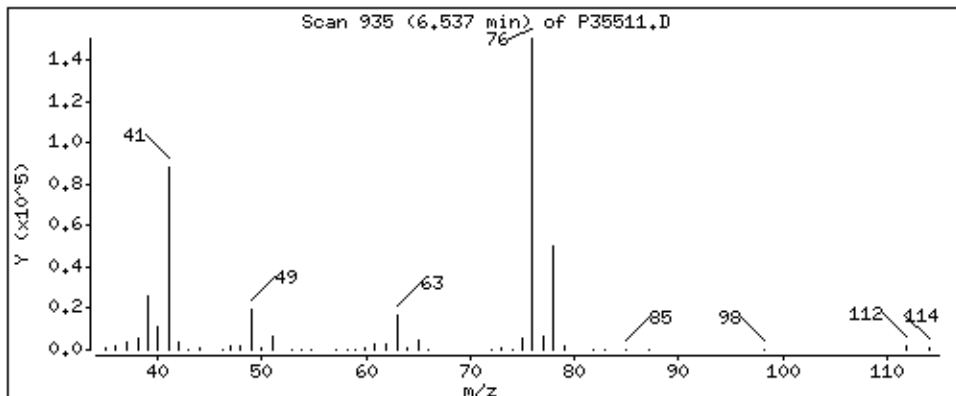
Column phase: RTX-624

Column diameter: 0,18

78 1,3-Dichloropropane

Concentration: 47.3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

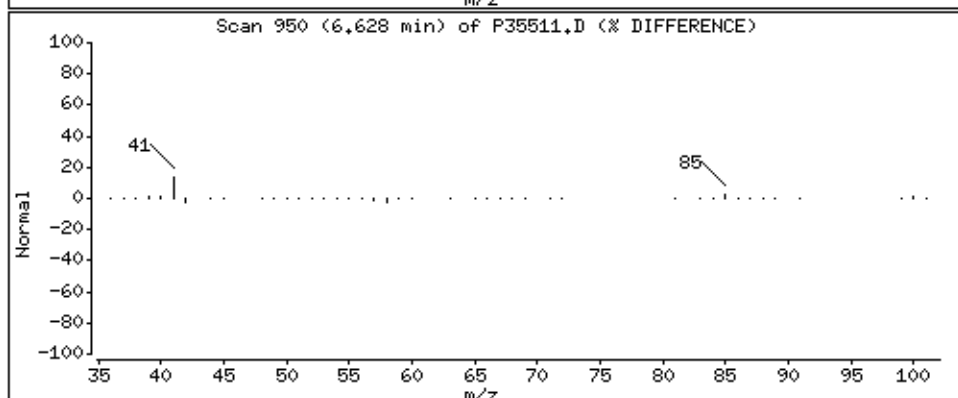
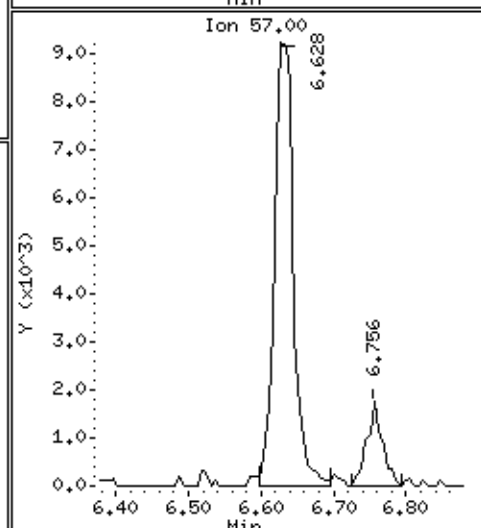
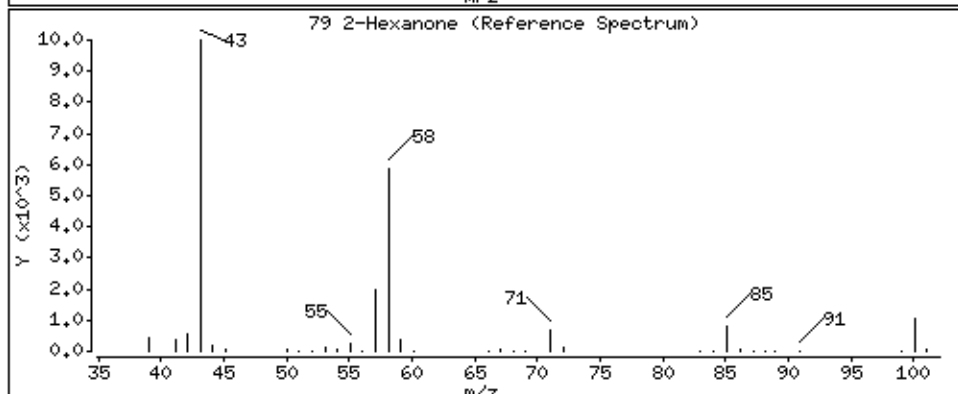
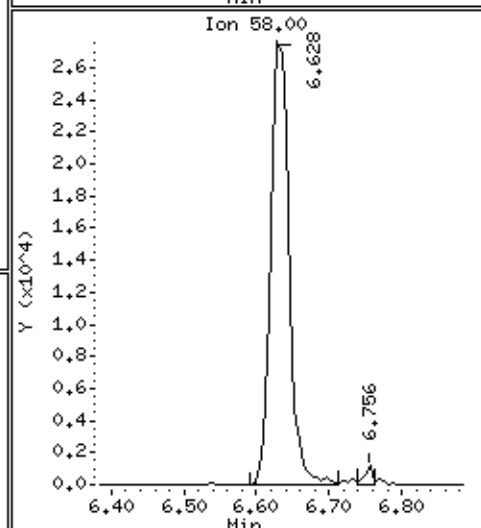
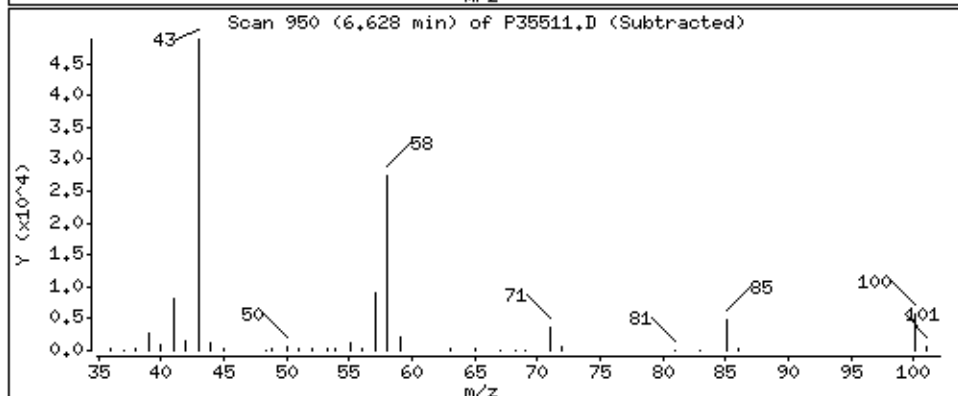
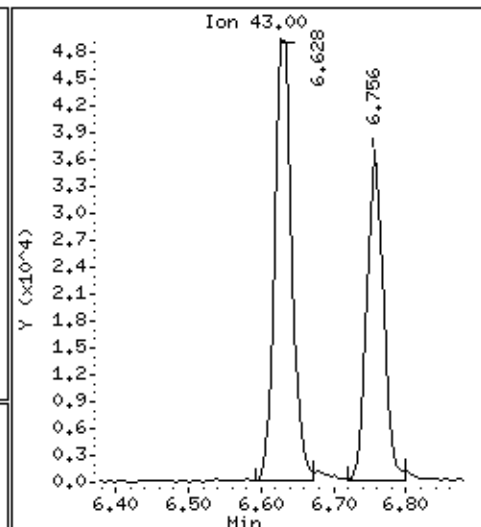
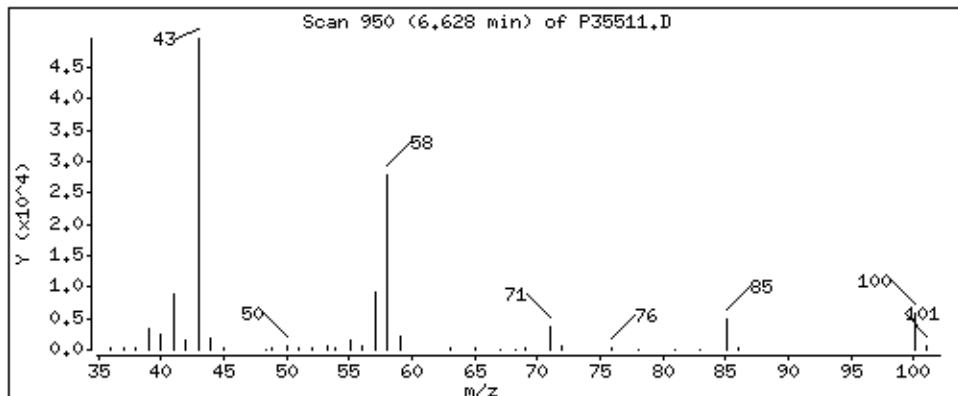
Column phase: RTX-624

Column diameter: 0.18

79 2-Hexanone

Concentration: 36.0 ug/L

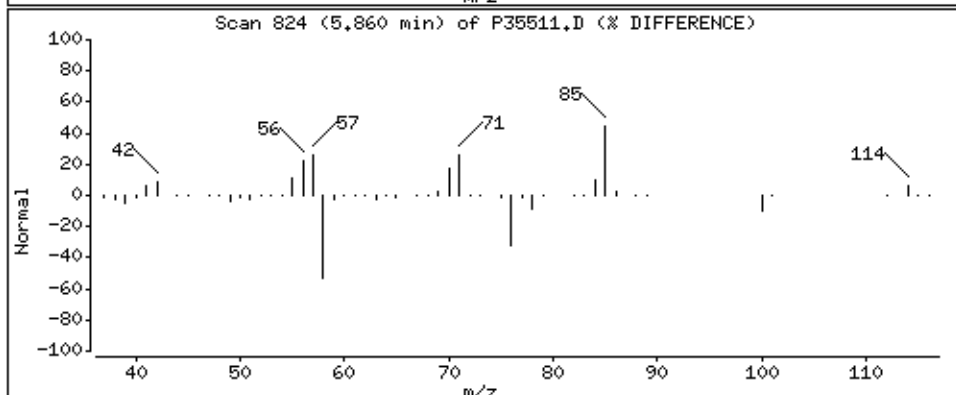
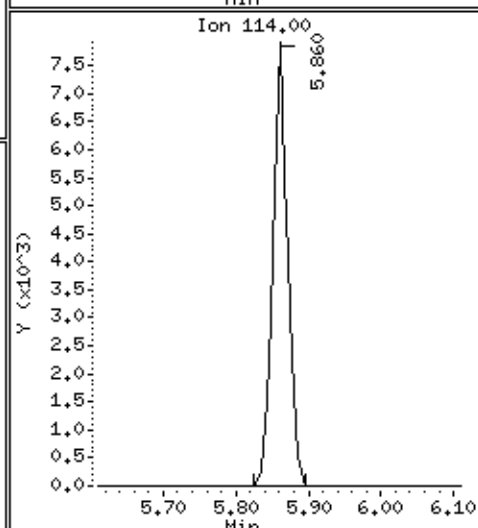
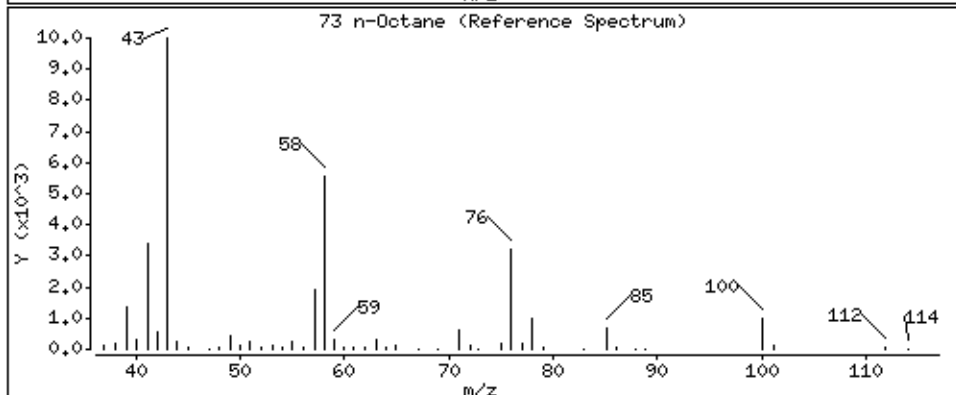
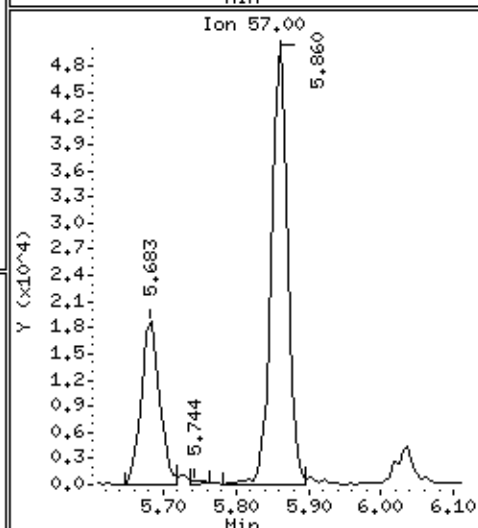
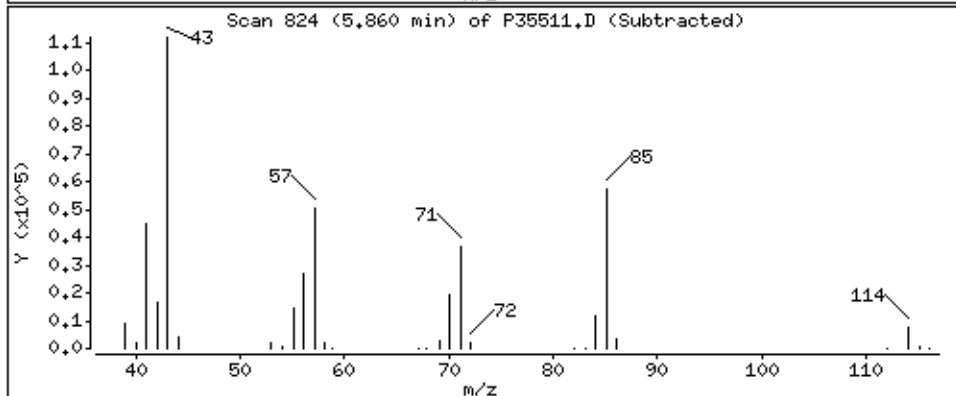
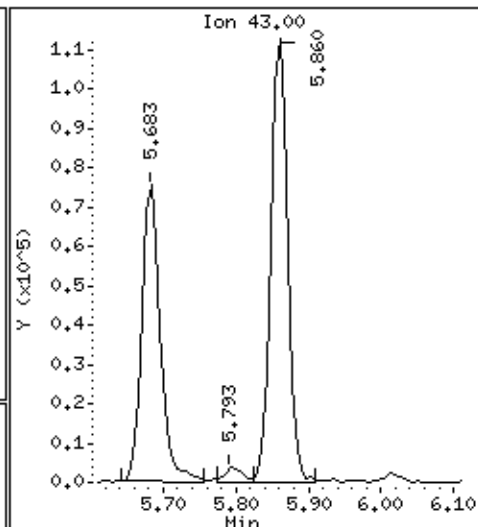
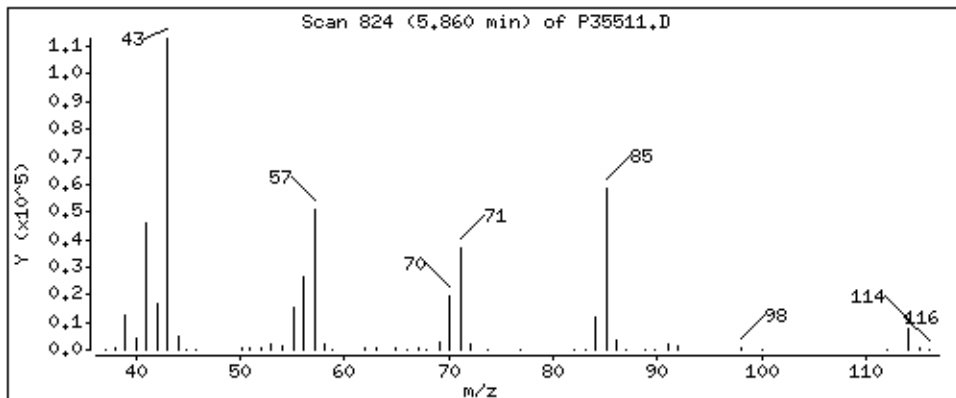
Review Code:



73 n-Octane

Concentration: 34,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

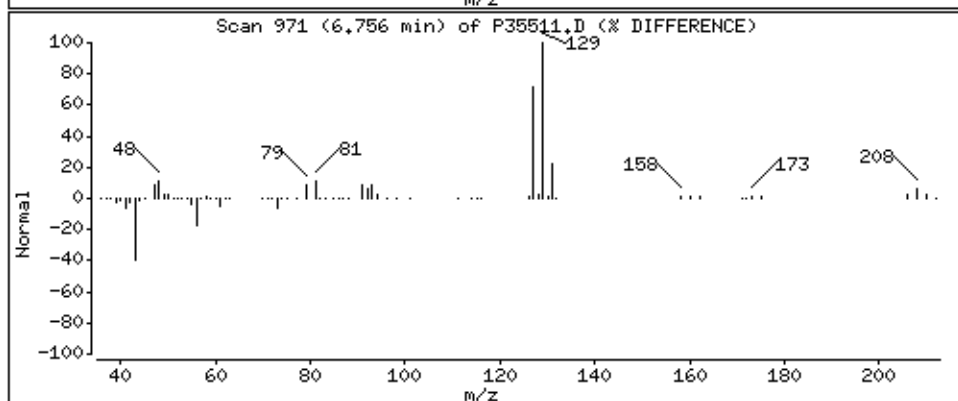
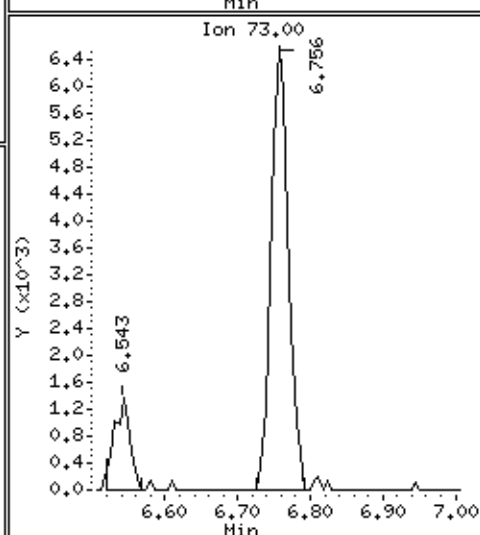
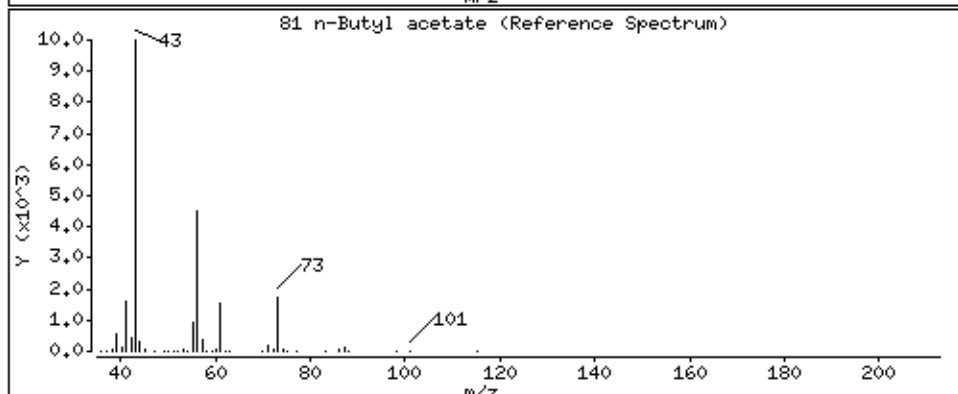
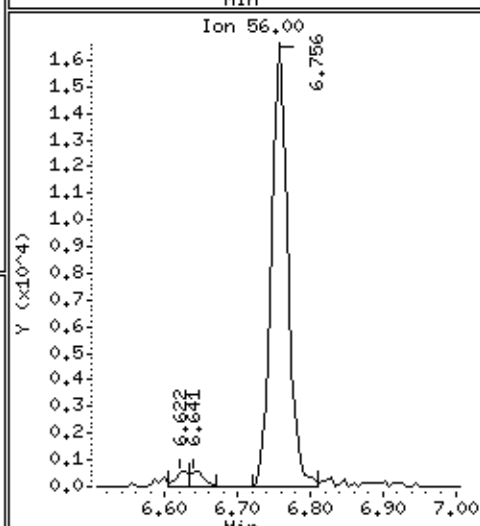
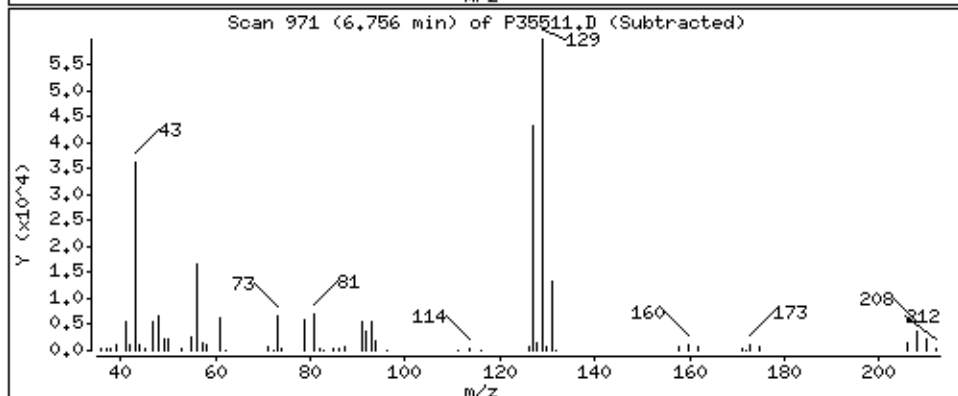
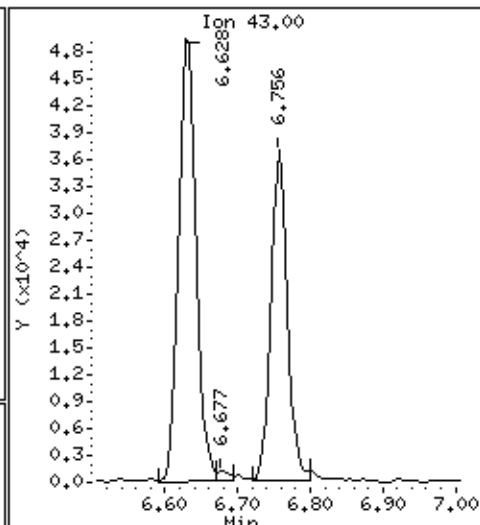
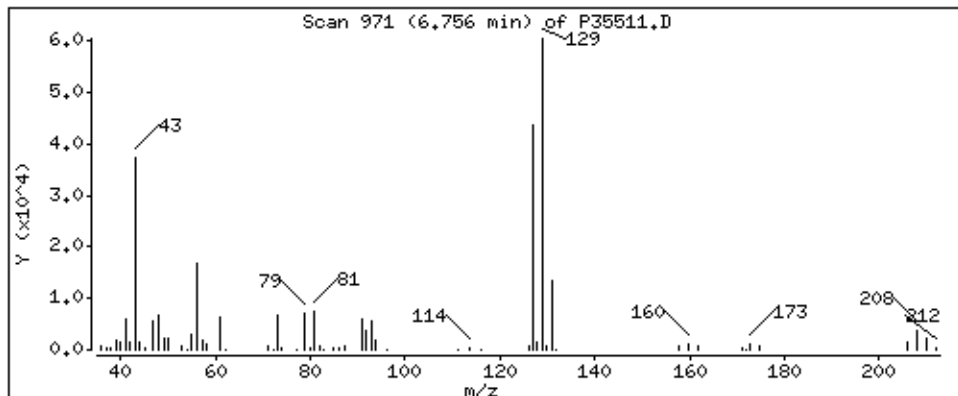
Column phase: RTX-624

Column diameter: 0,18

81 n-Butyl acetate

Concentration: 64,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

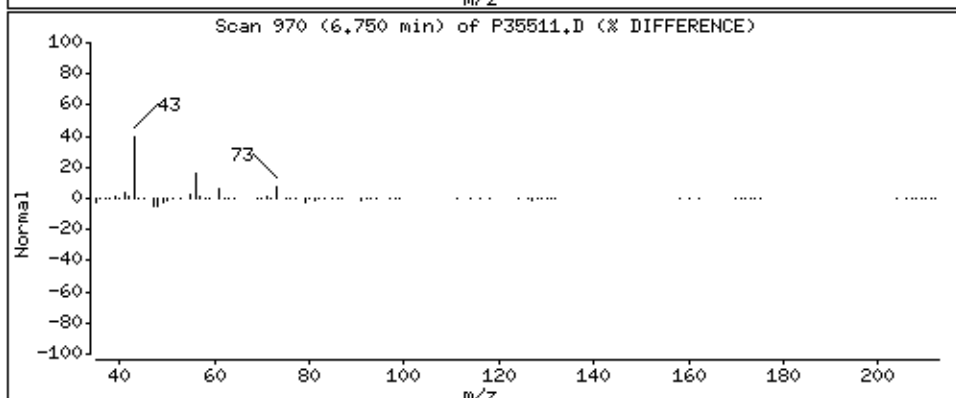
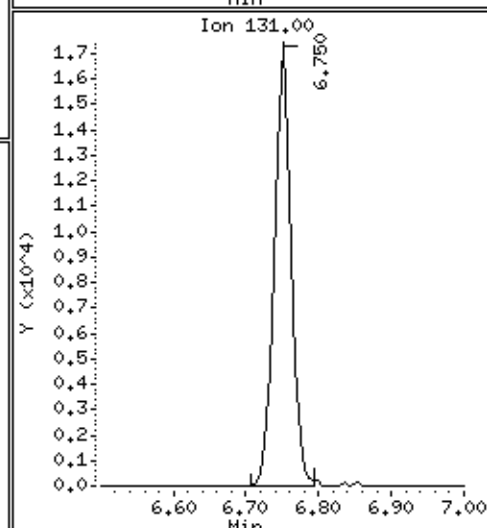
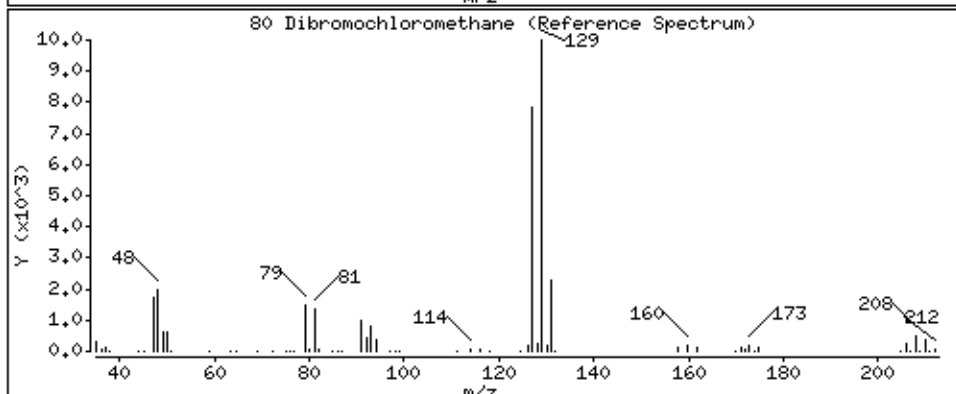
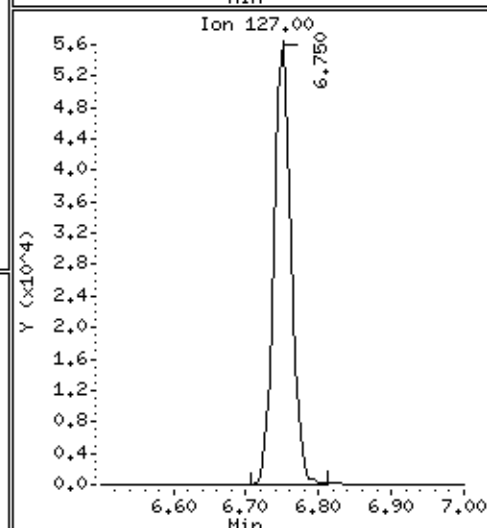
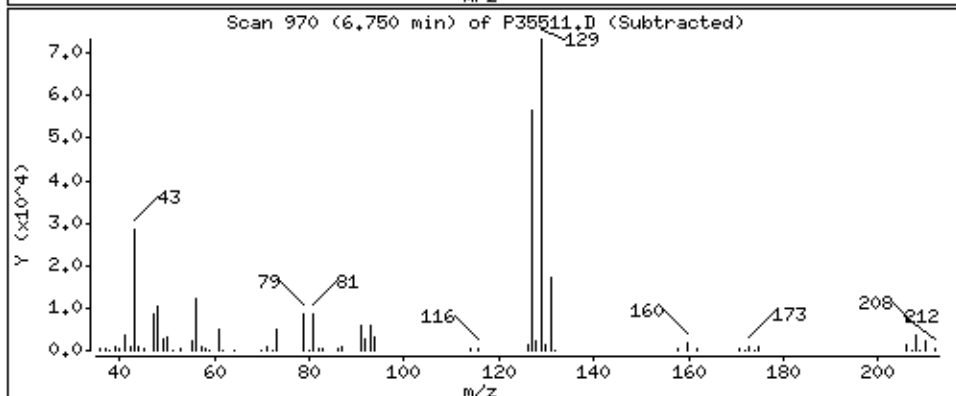
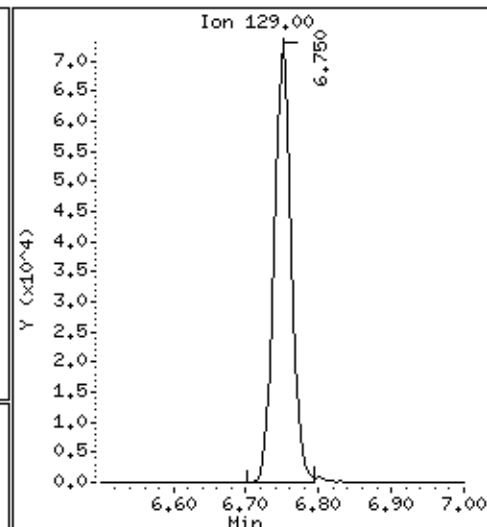
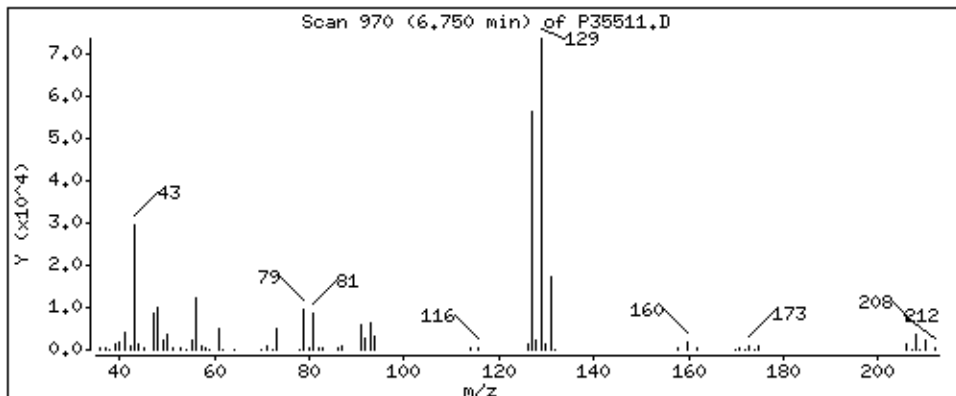
Column phase: RTX-624

Column diameter: 0,18

80 Dibromochloromethane

Concentration: 40,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

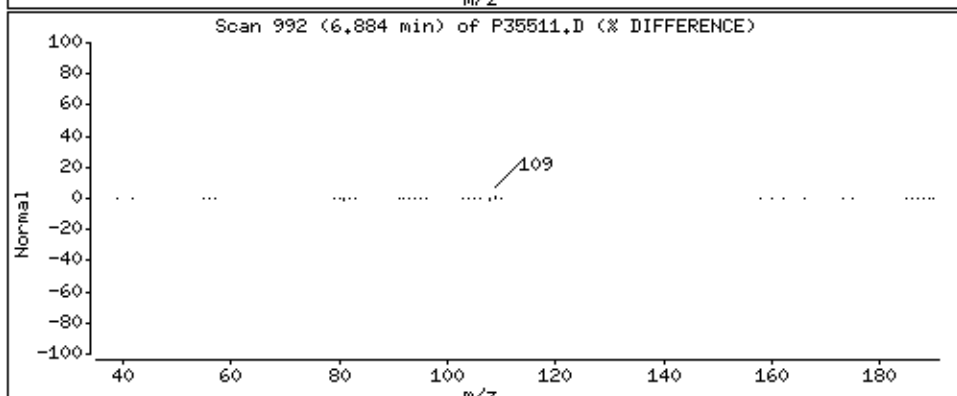
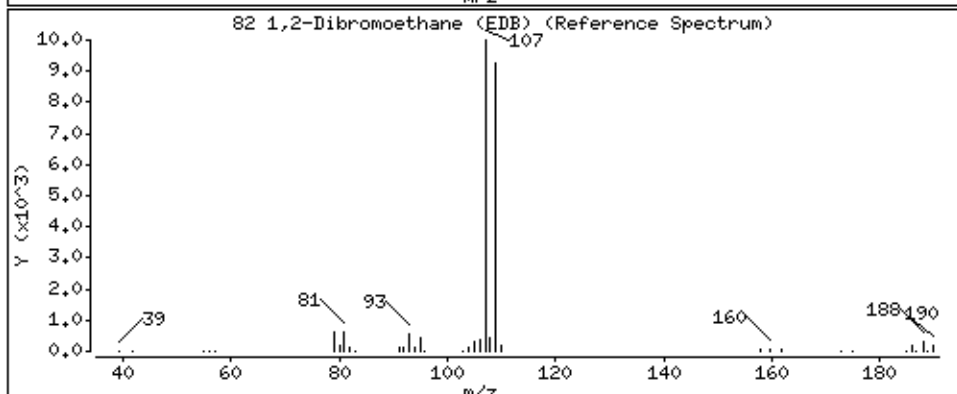
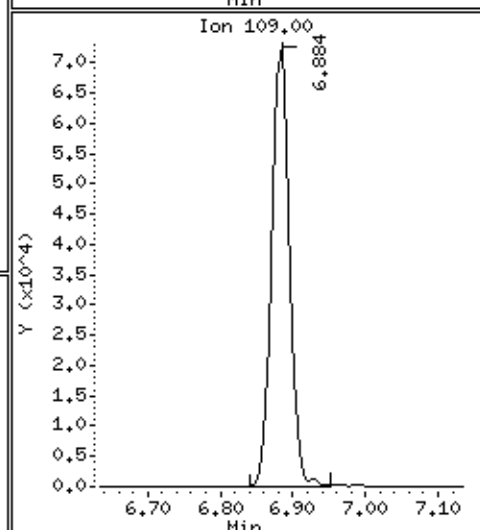
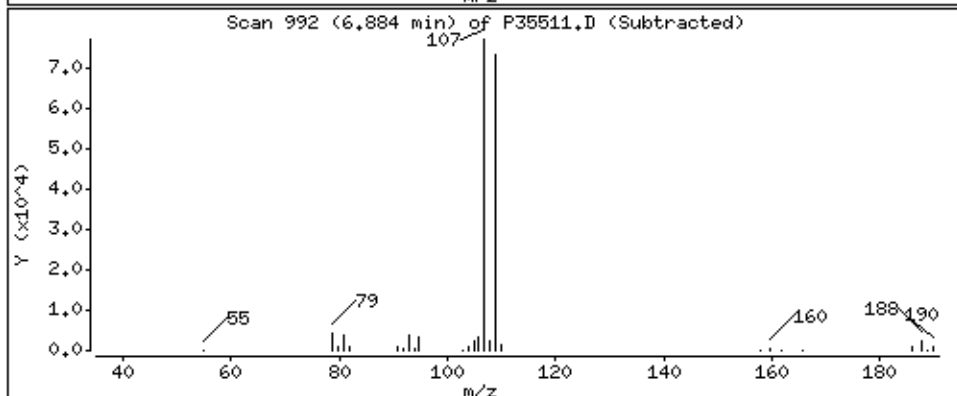
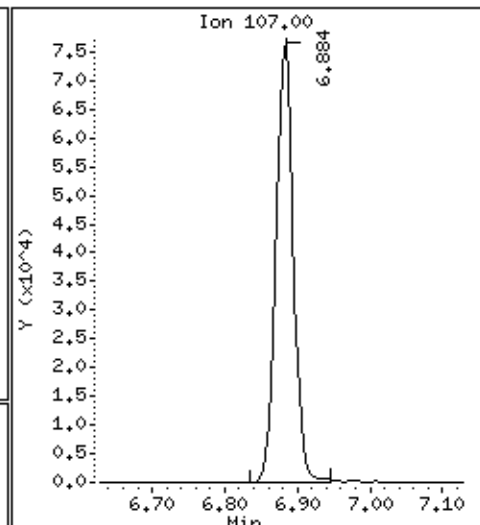
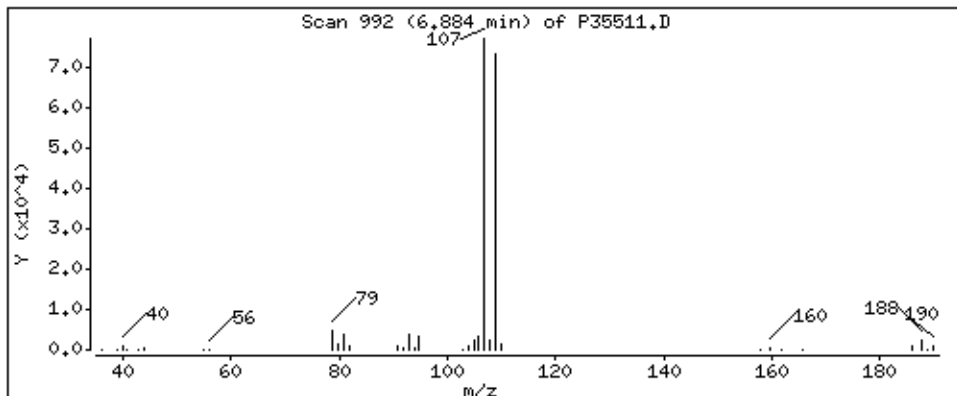
Column phase: RTX-624

Column diameter: 0,18

82 1,2-Dibromoethane (EDB)

Concentration: 46,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

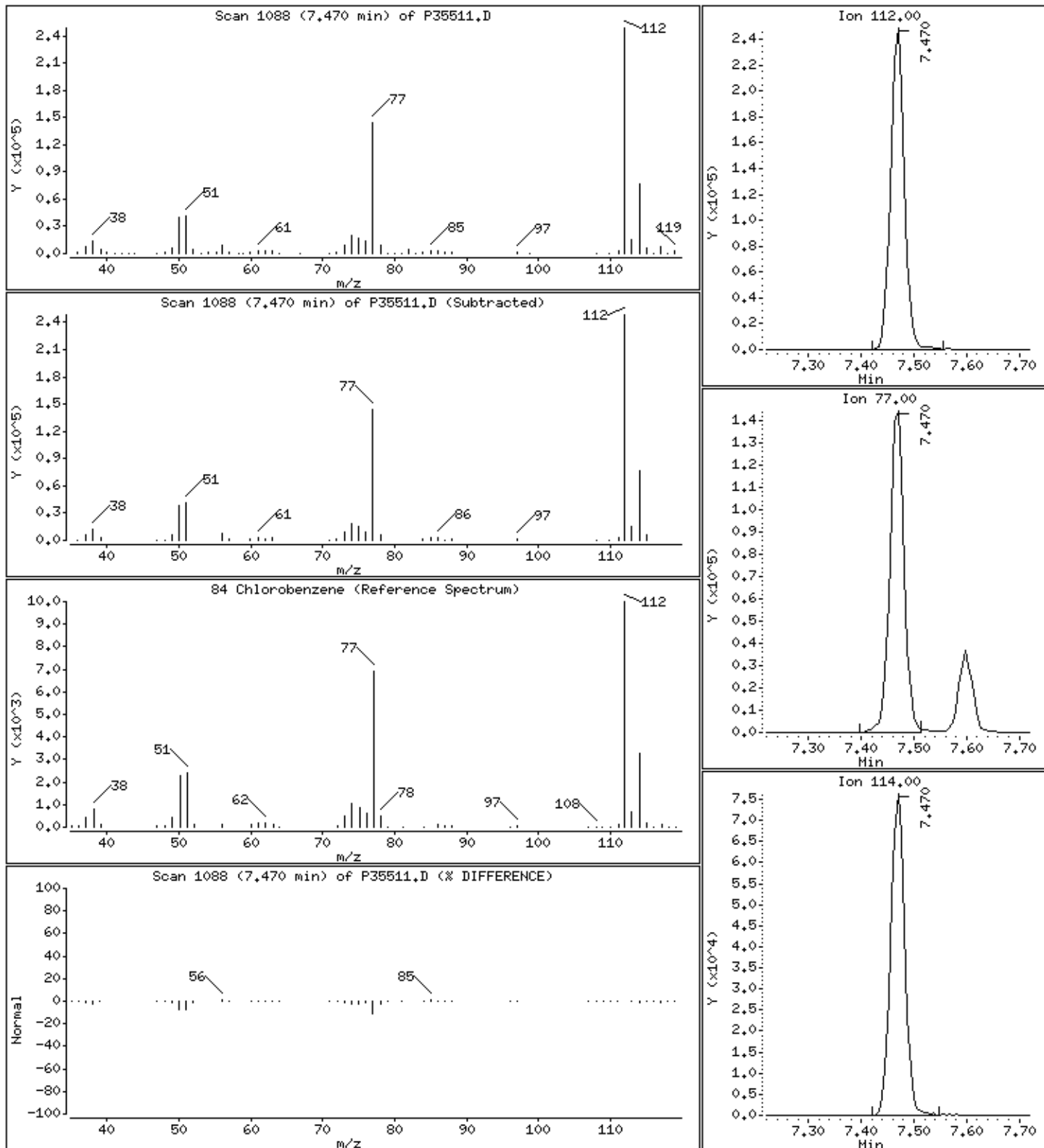
Column phase: RTX-624

Column diameter: 0,18

84 Chlorobenzene

Concentration: 45,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

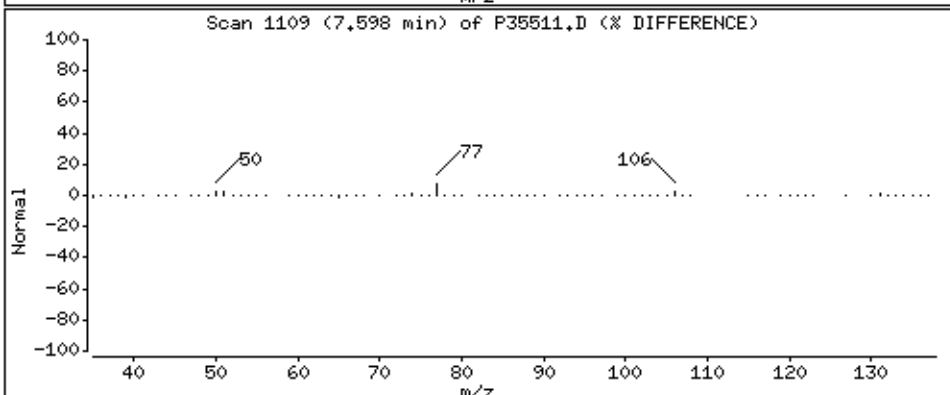
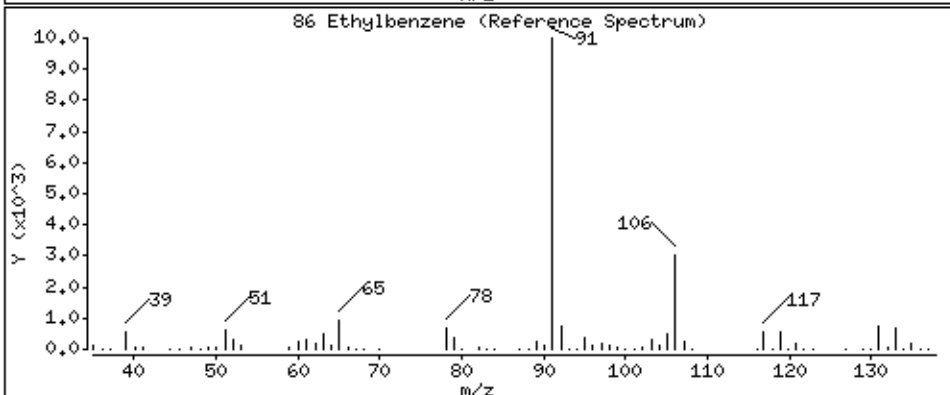
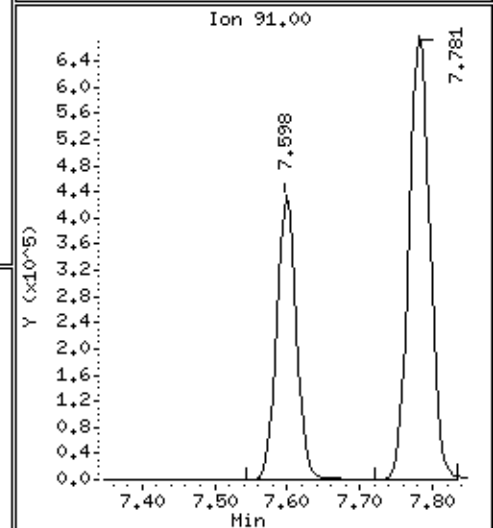
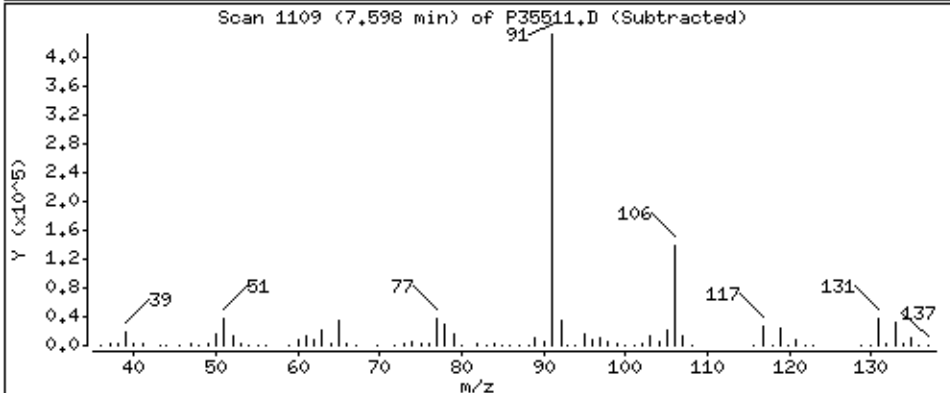
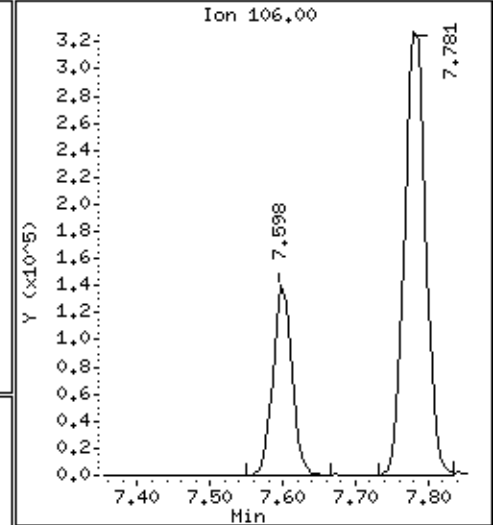
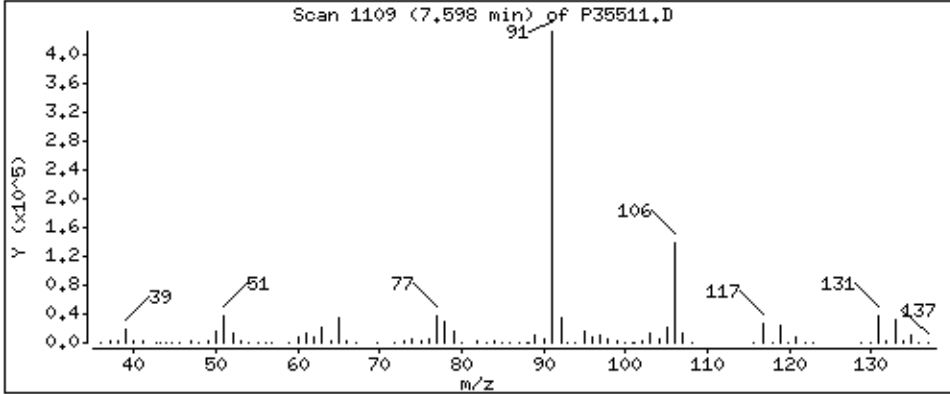
Column phase: RTX-624

Column diameter: 0,18

86 Ethylbenzene

Concentration: 44.8 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

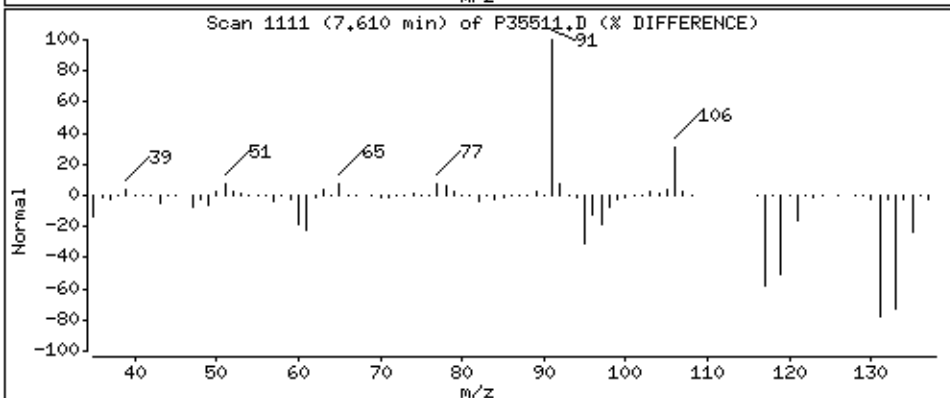
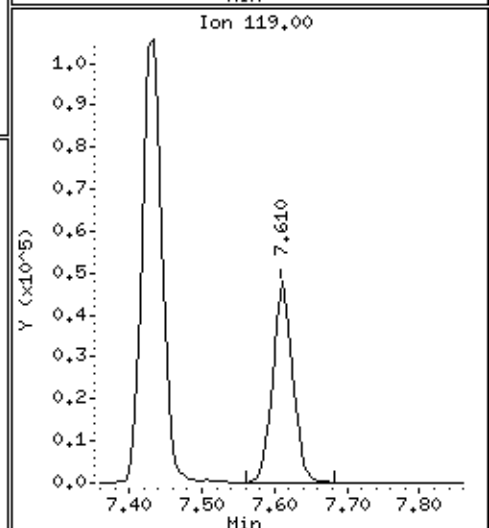
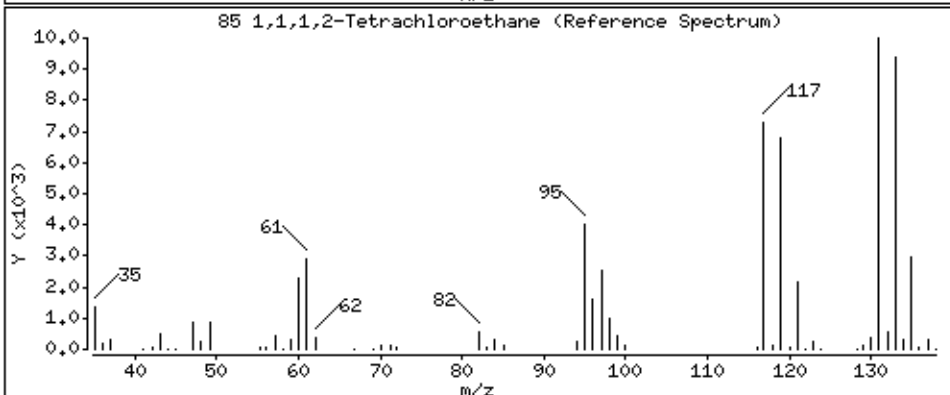
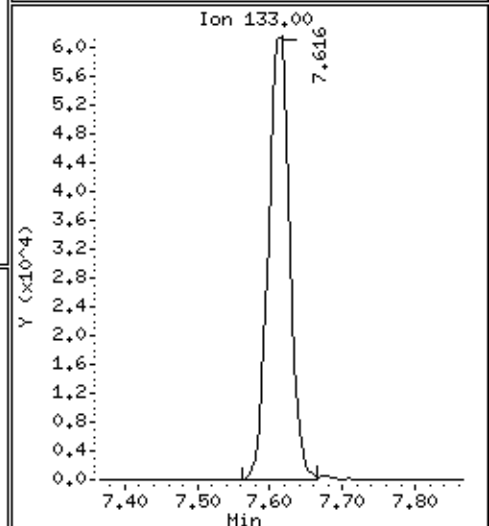
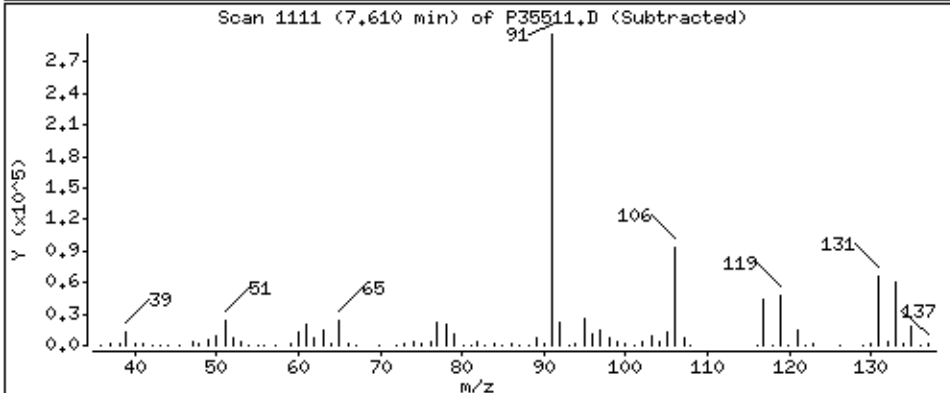
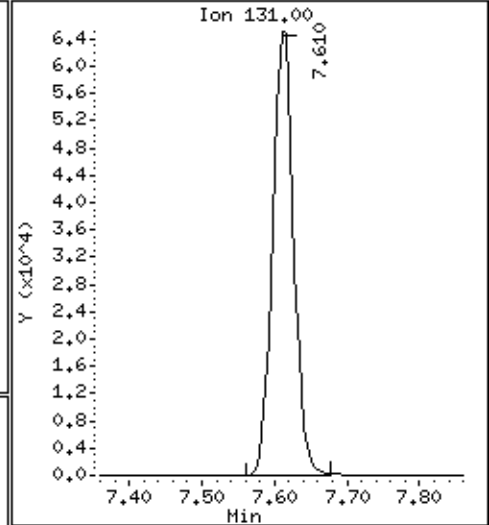
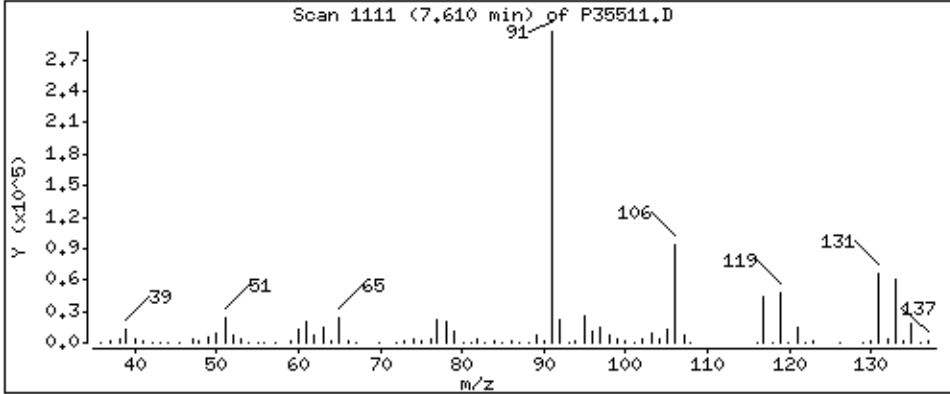
Column phase: RTX-624

Column diameter: 0,18

85 1,1,1,2-Tetrachloroethane

Concentration: 43.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

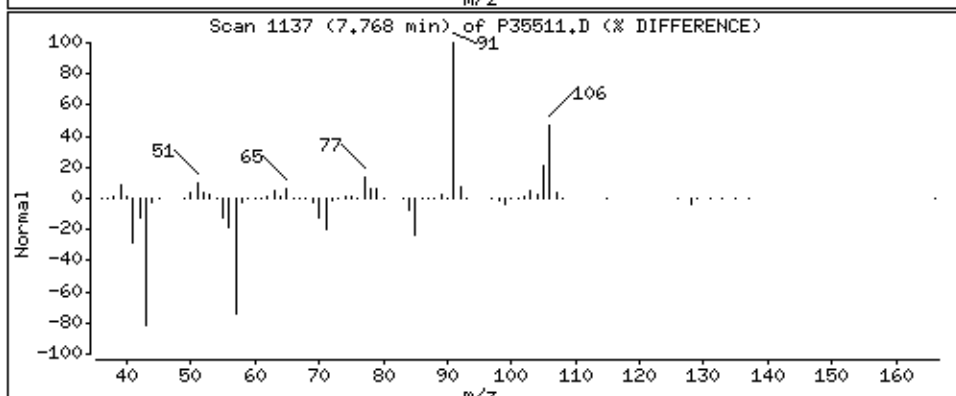
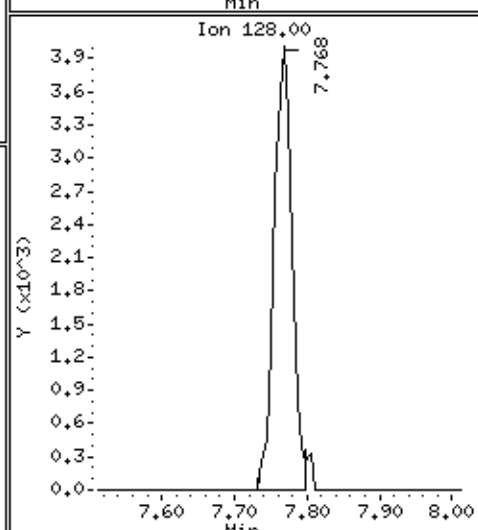
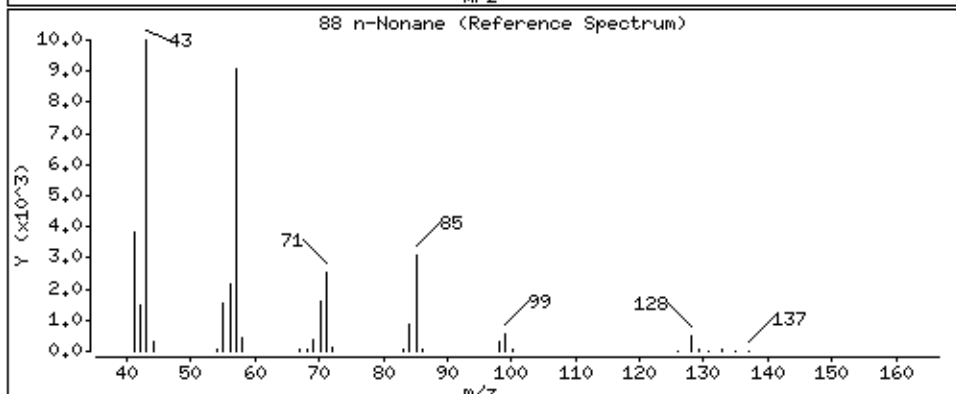
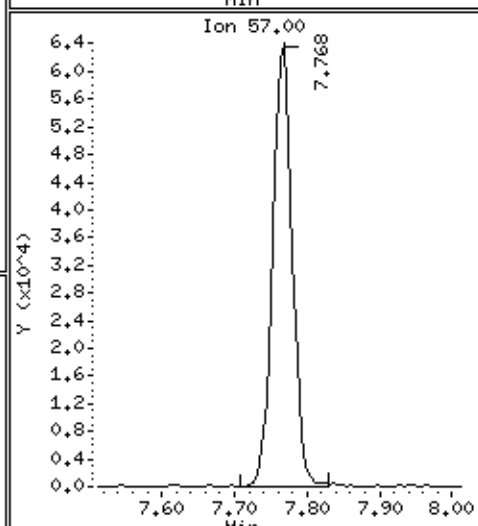
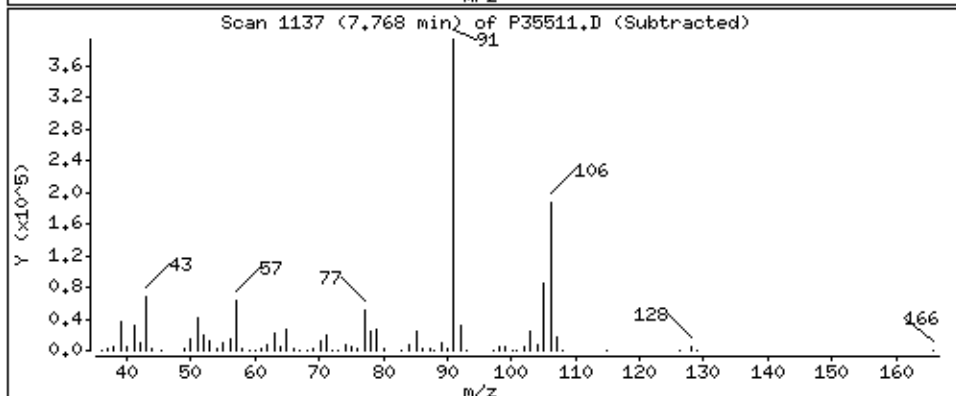
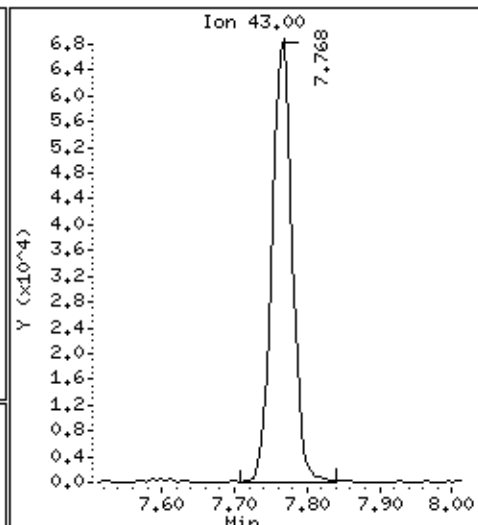
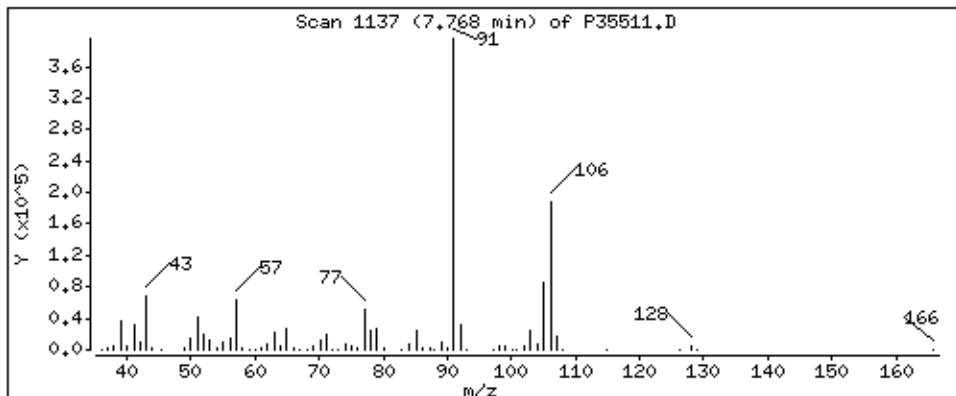
Column phase: RTX-624

Column diameter: 0,18

88 n-Nonane

Concentration: 35,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

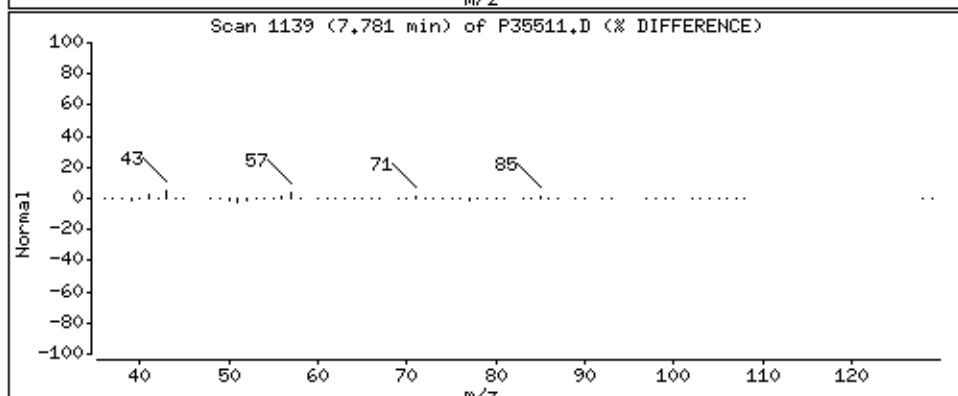
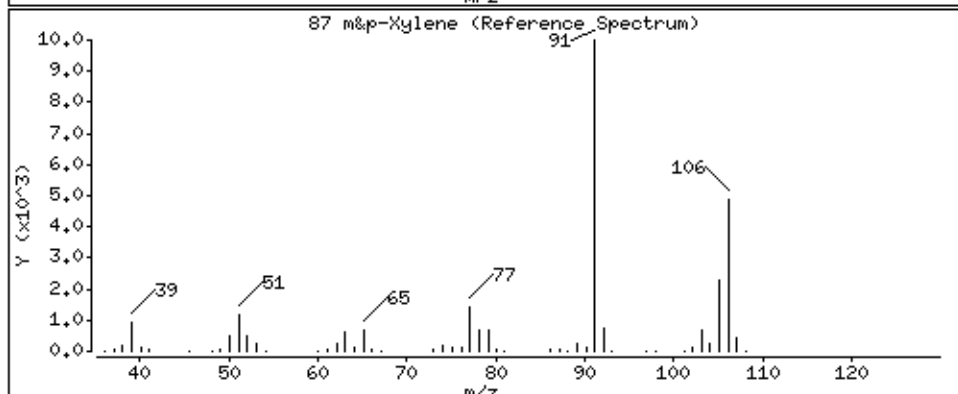
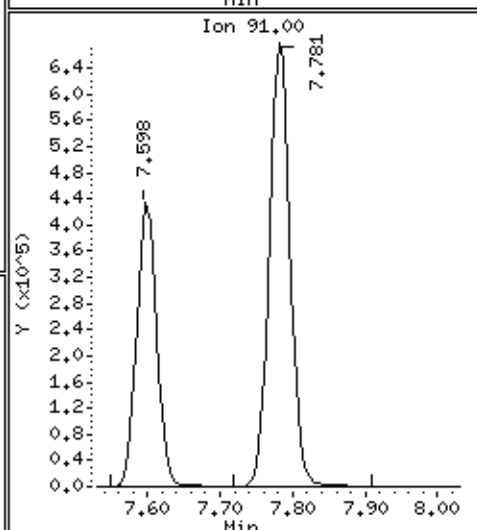
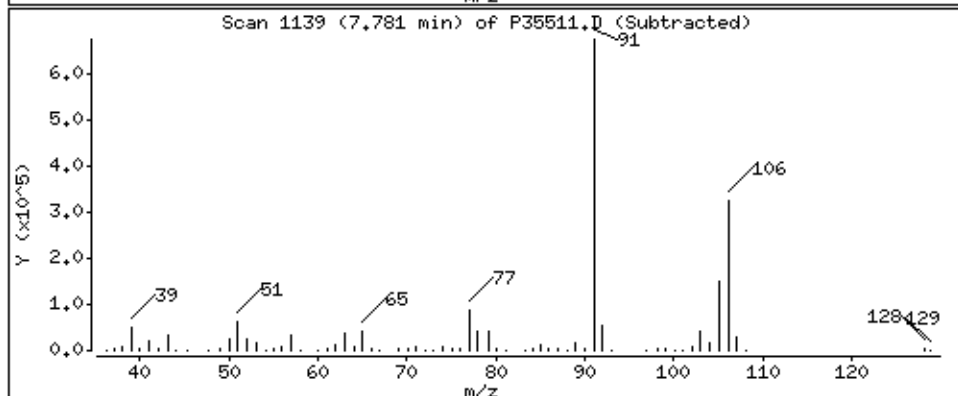
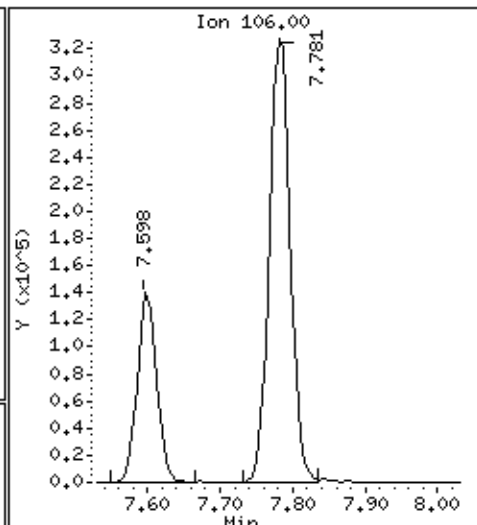
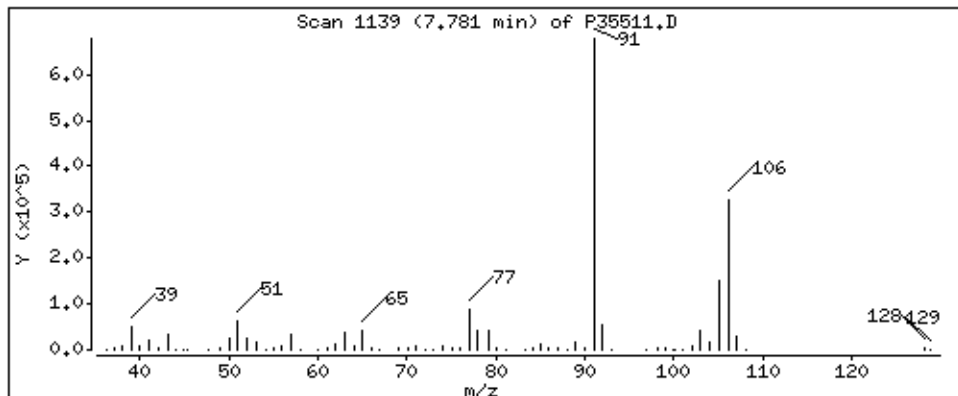
Column phase: RTX-624

Column diameter: 0,18

87 m&p-Xylene

Concentration: 96,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

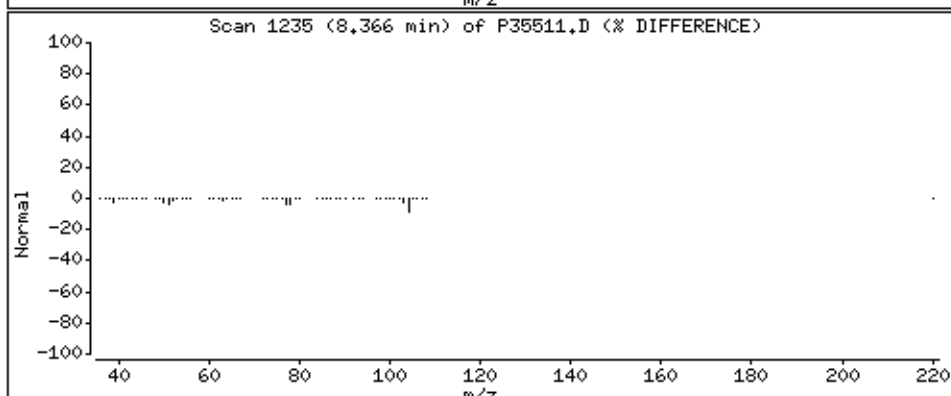
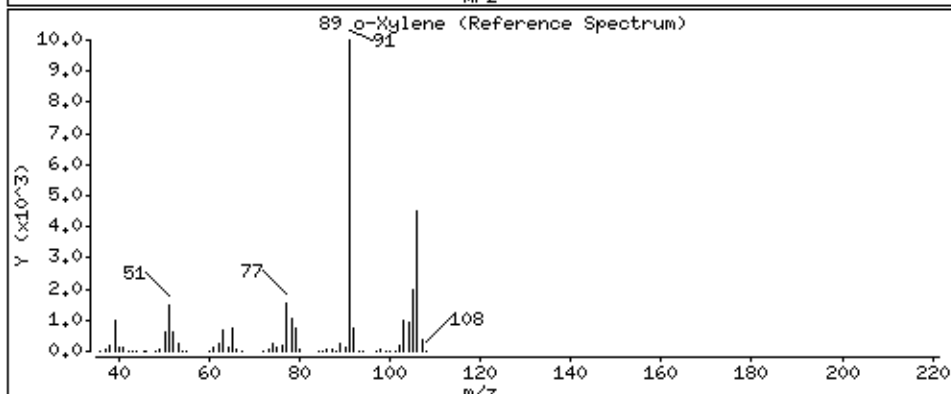
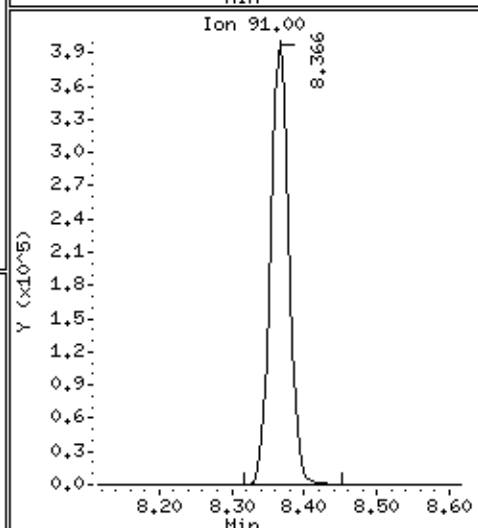
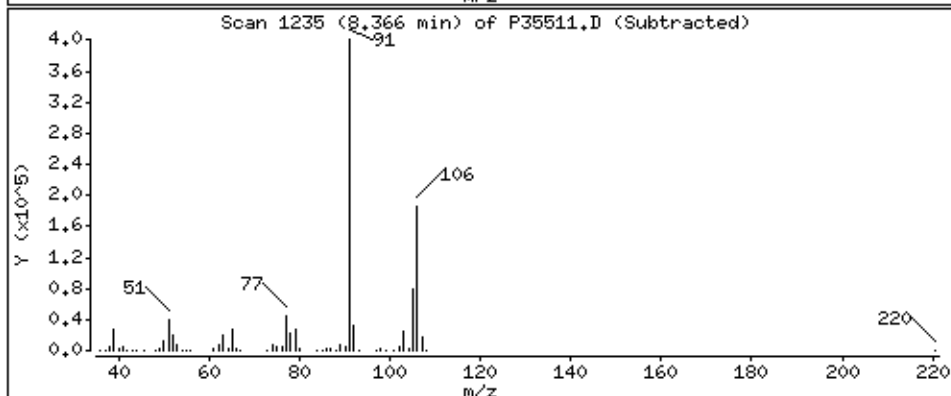
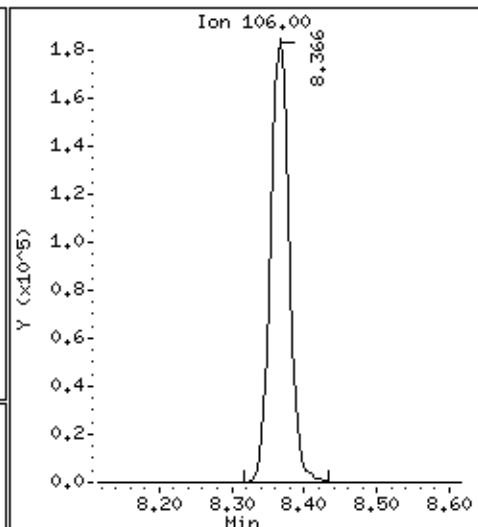
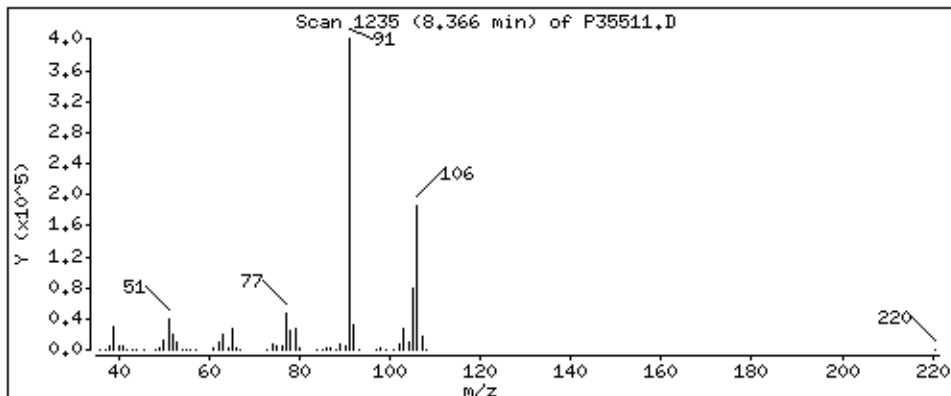
Column phase: RTX-624

Column diameter: 0,18

89 o-Xylene

Concentration: 51.3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

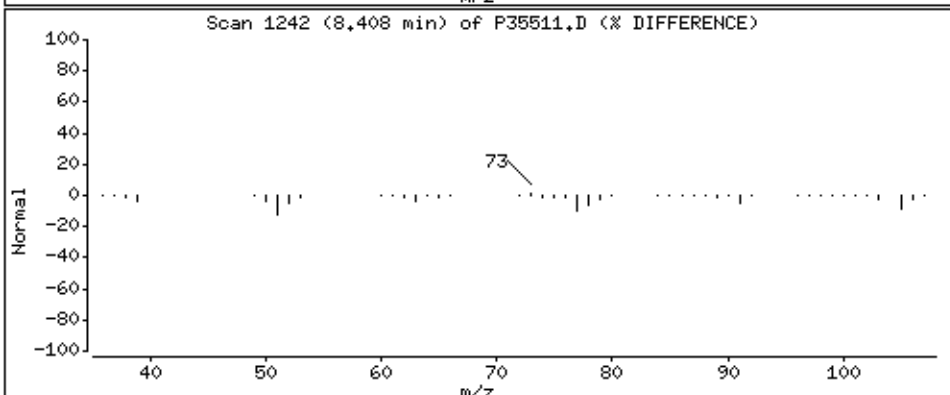
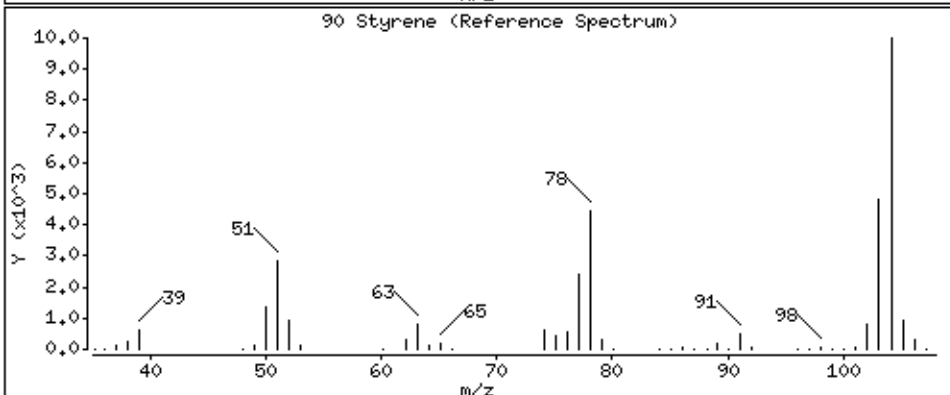
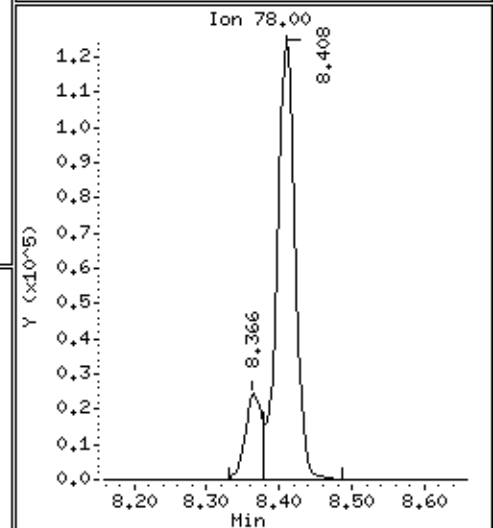
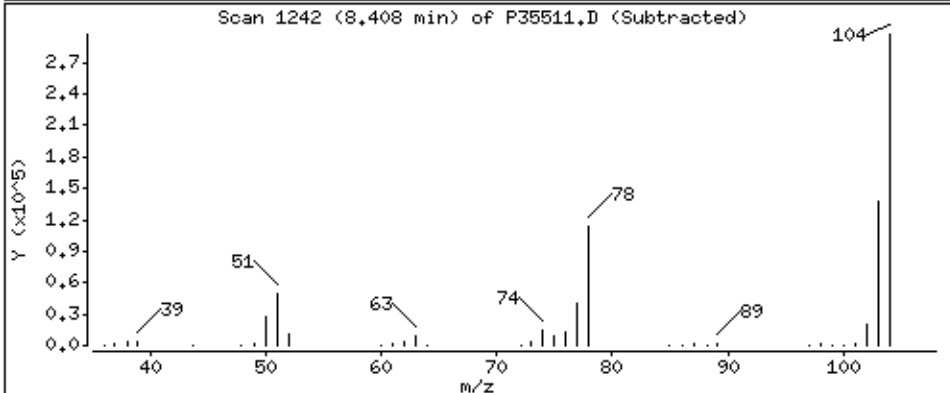
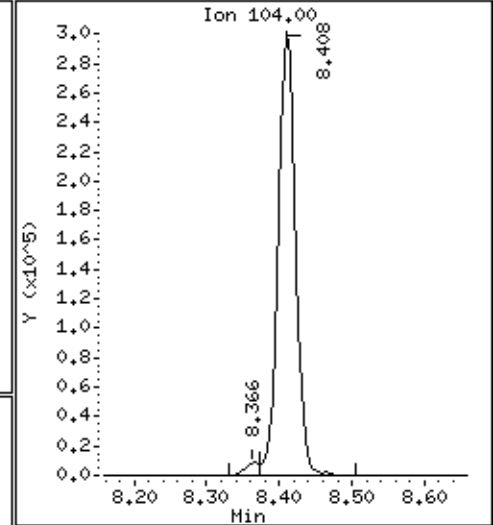
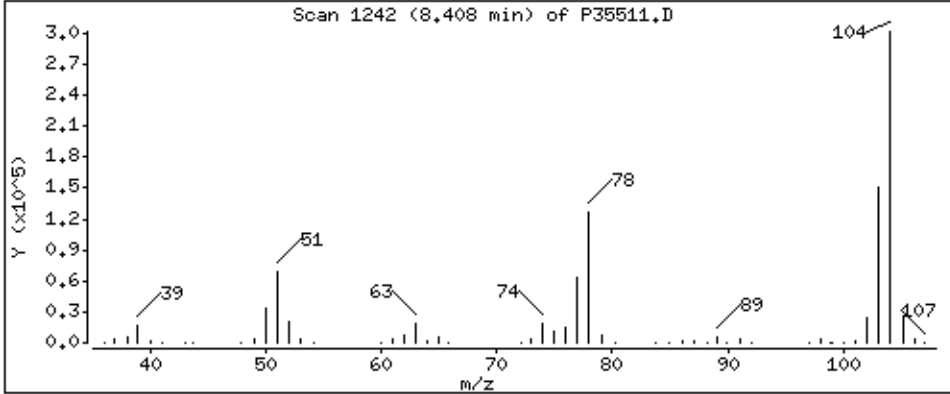
Column phase: RTX-624

Column diameter: 0,18

90 Styrene

Concentration: 47,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

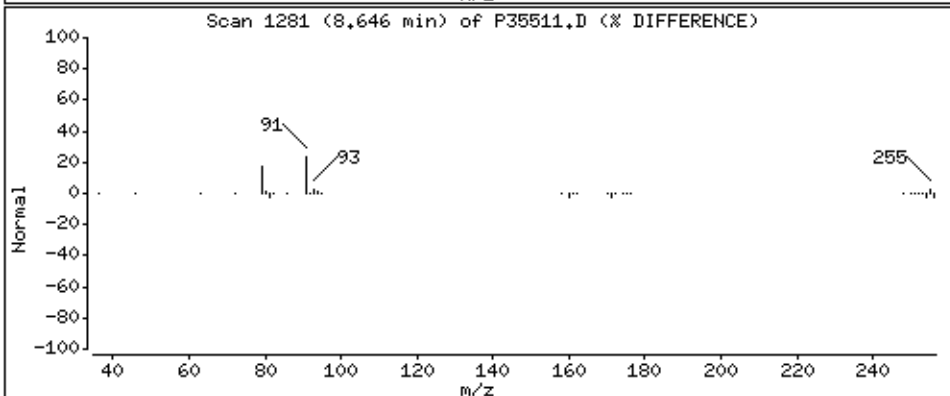
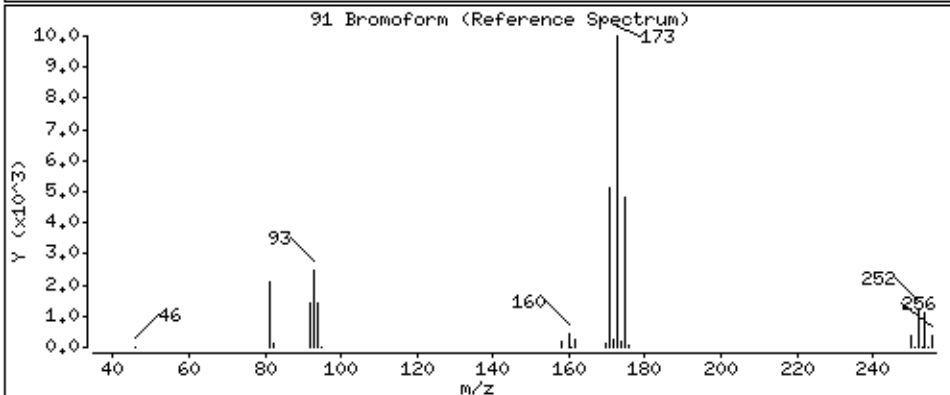
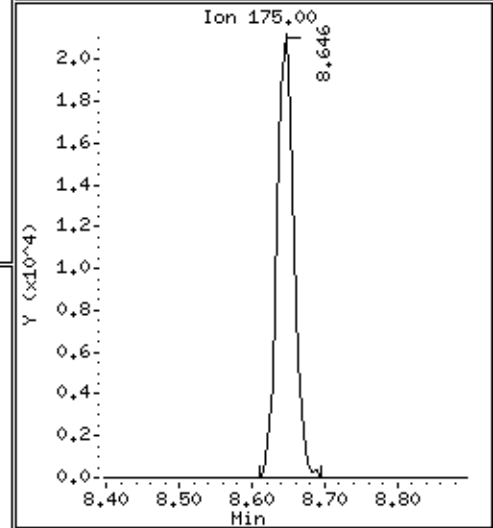
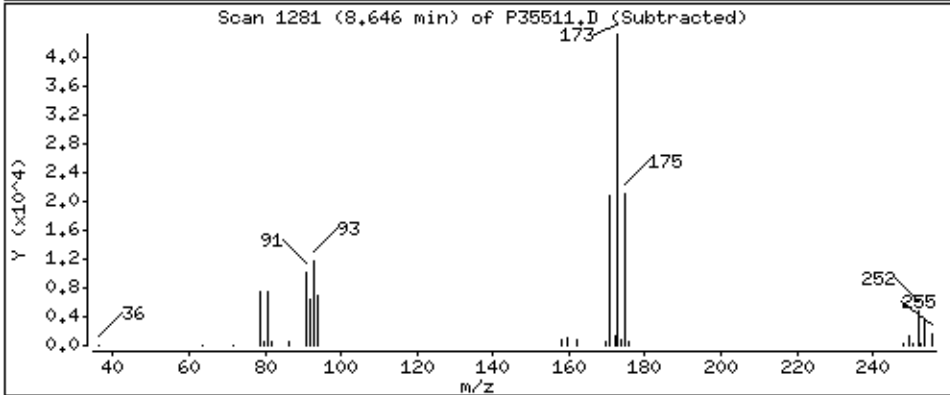
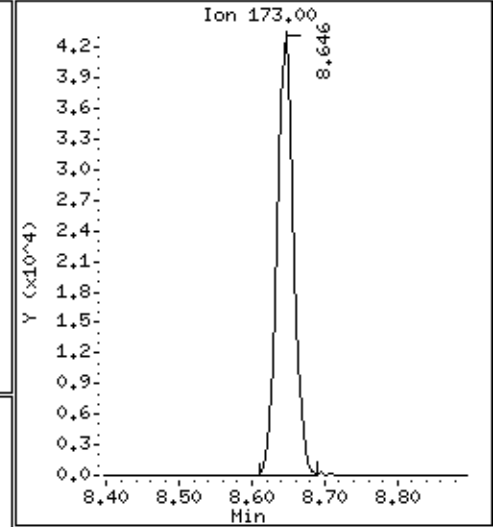
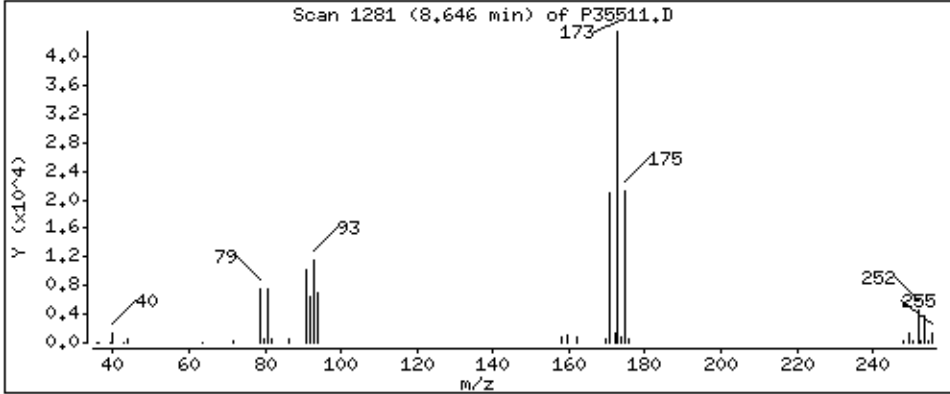
Column phase: RTX-624

Column diameter: 0,18

91 Bromoform

Concentration: 42.5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

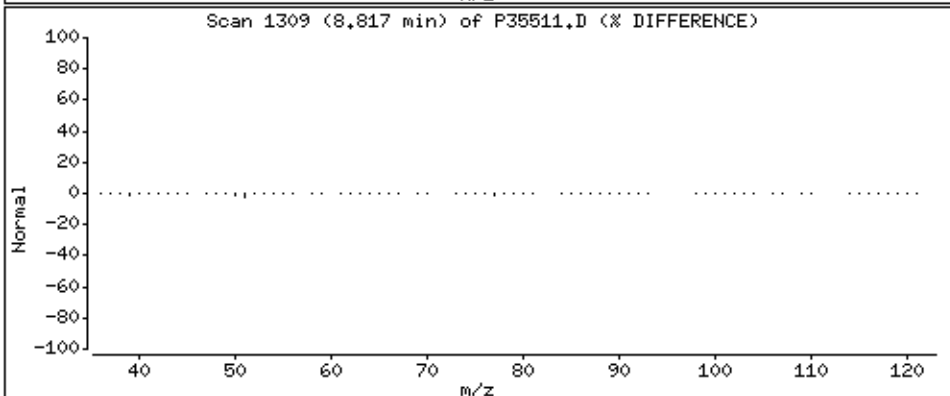
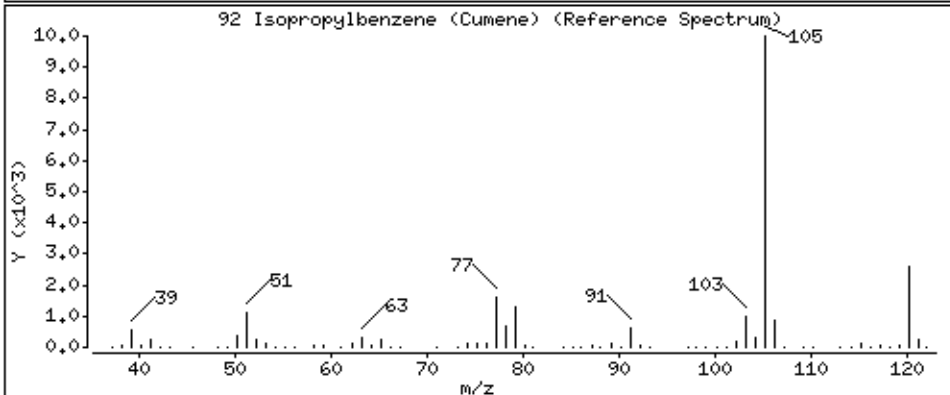
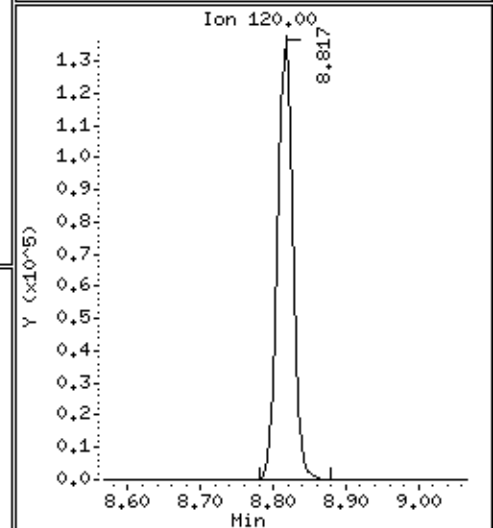
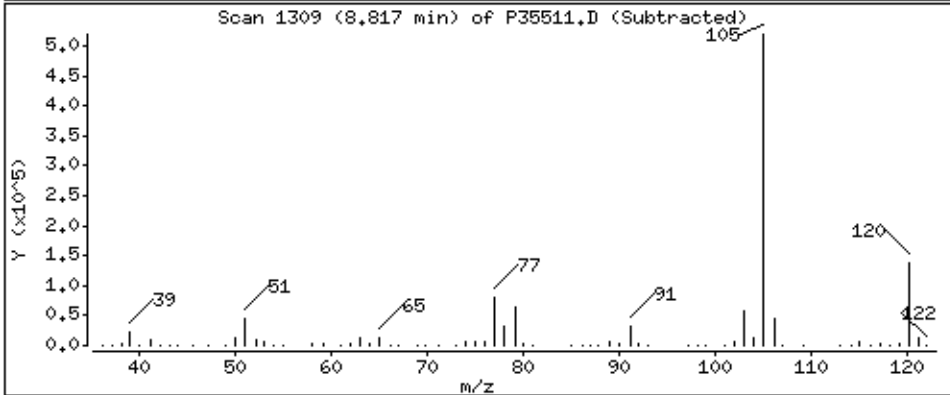
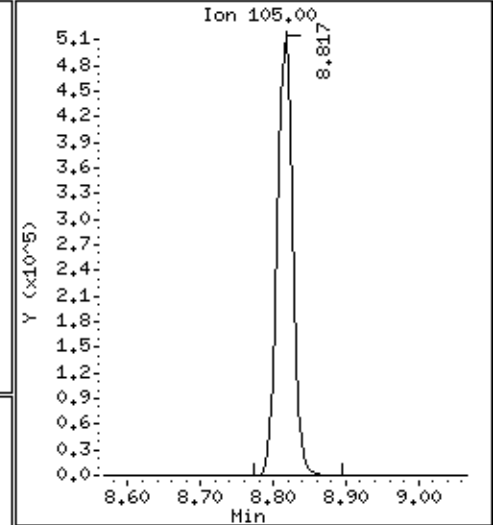
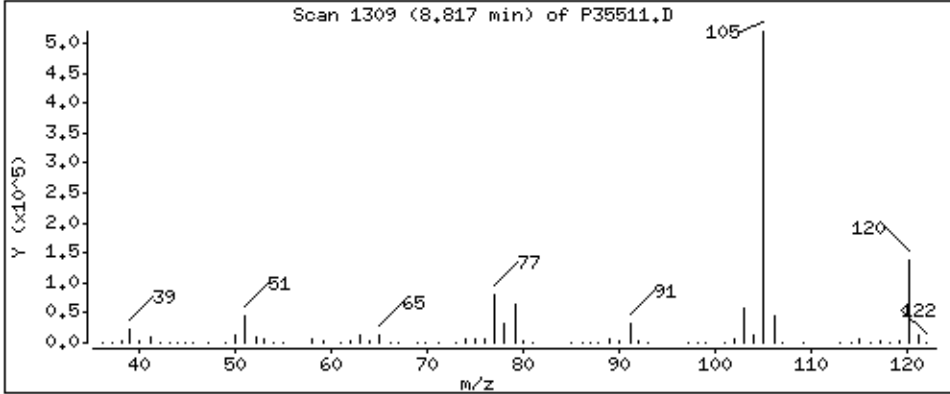
Column phase: RTX-624

Column diameter: 0,18

92 Isopropylbenzene (Cumene)

Concentration: 46,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

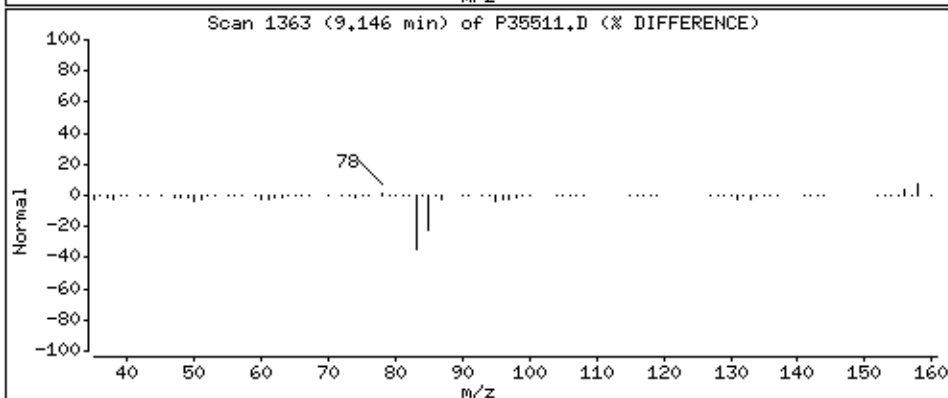
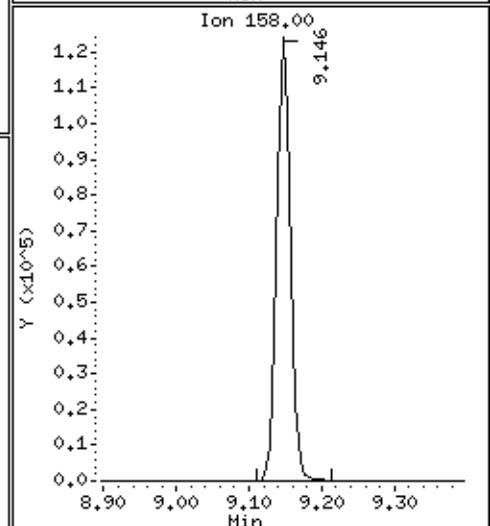
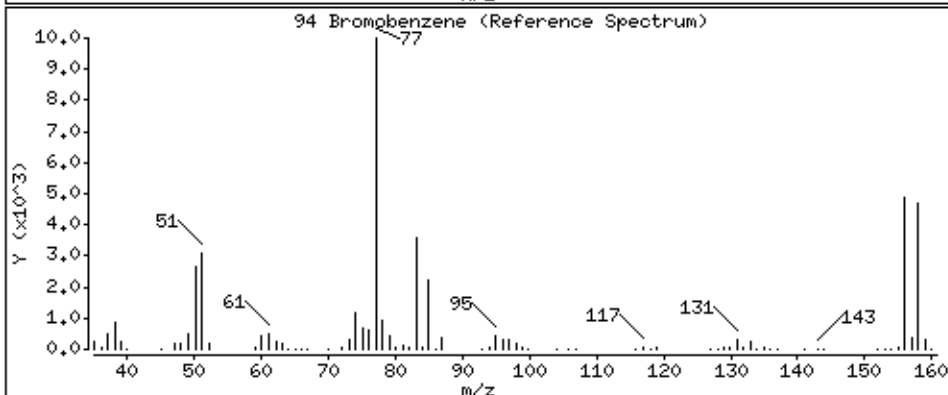
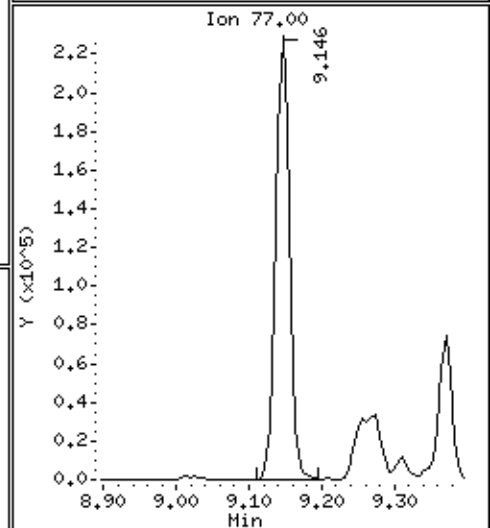
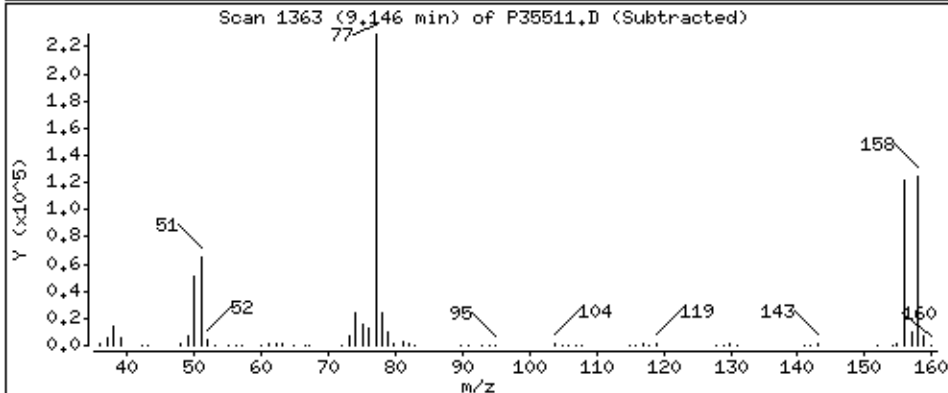
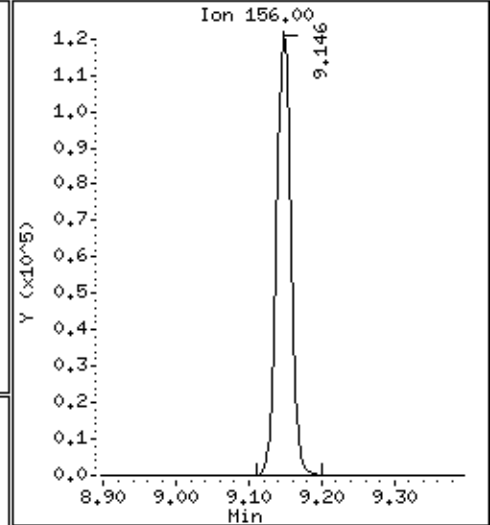
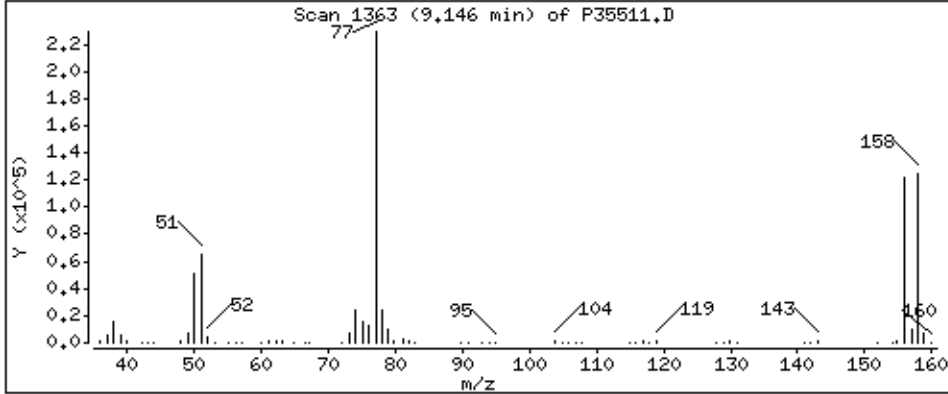
Column phase: RTX-624

Column diameter: 0.18

94 Bromobenzene

Concentration: 46.2 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

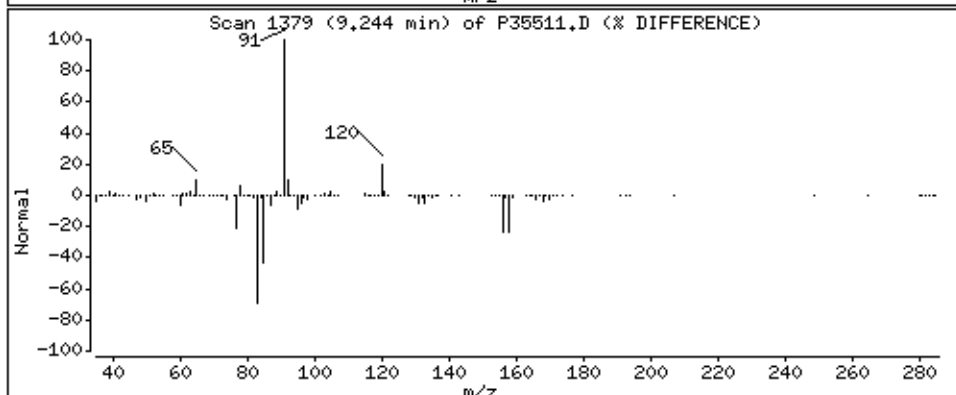
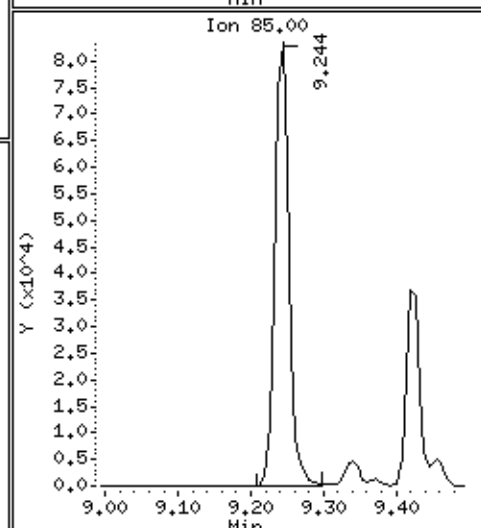
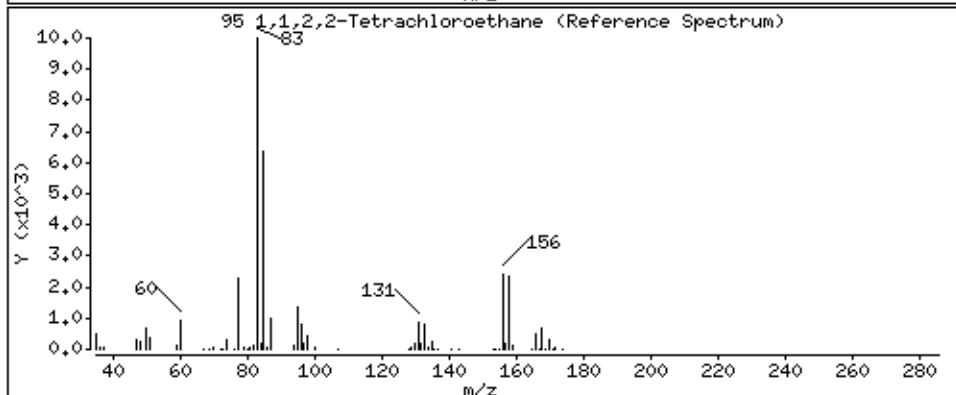
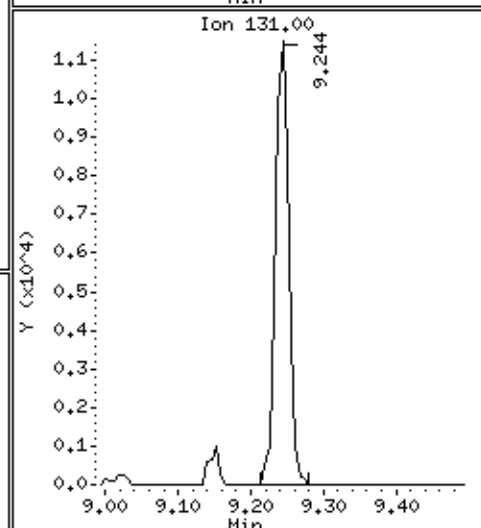
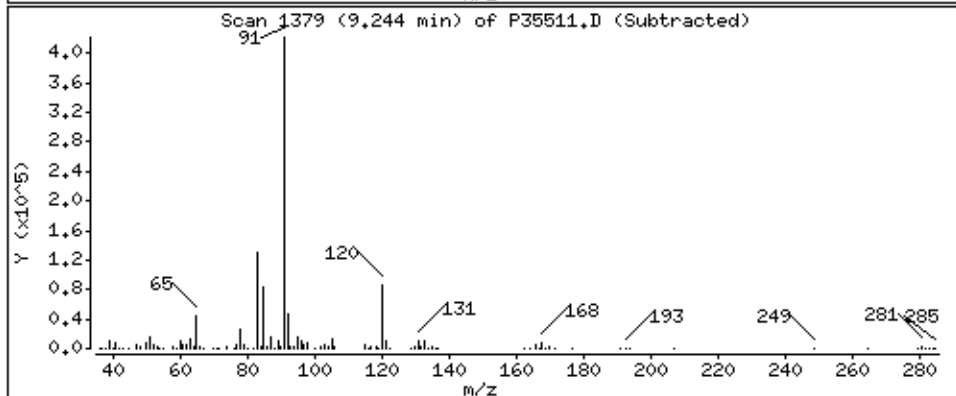
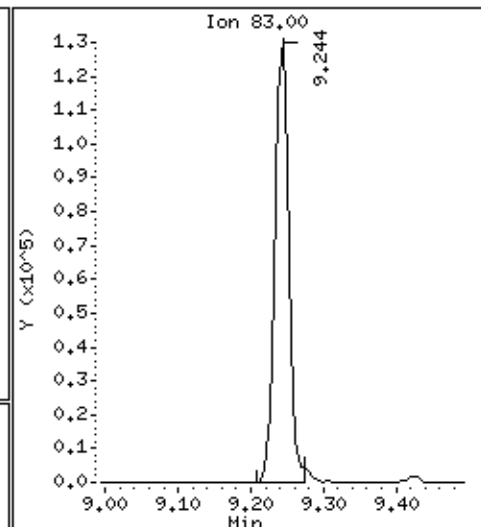
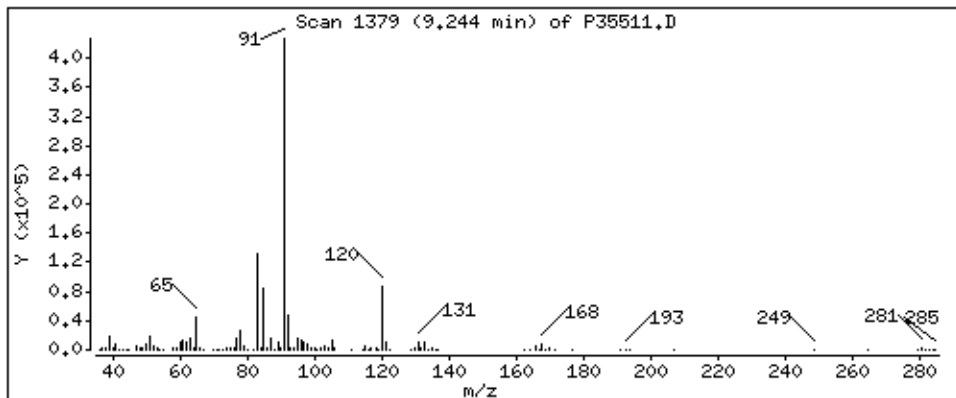
Column phase: RTX-624

Column diameter: 0,18

95 1,1,2,2-Tetrachloroethane

Concentration: 49,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

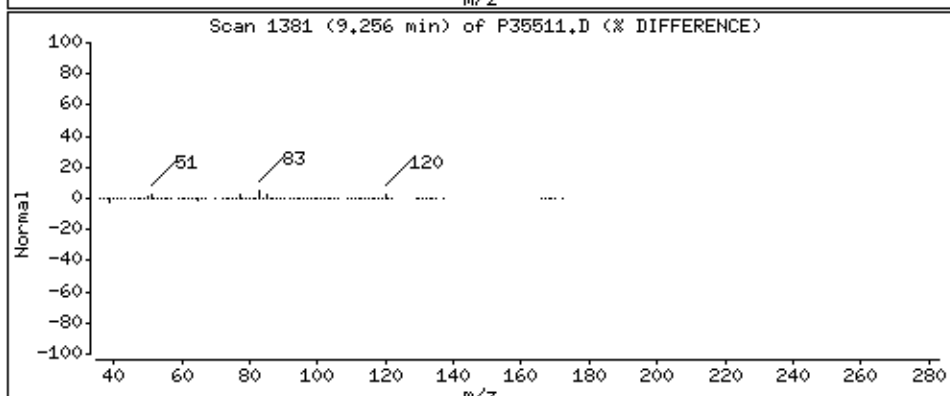
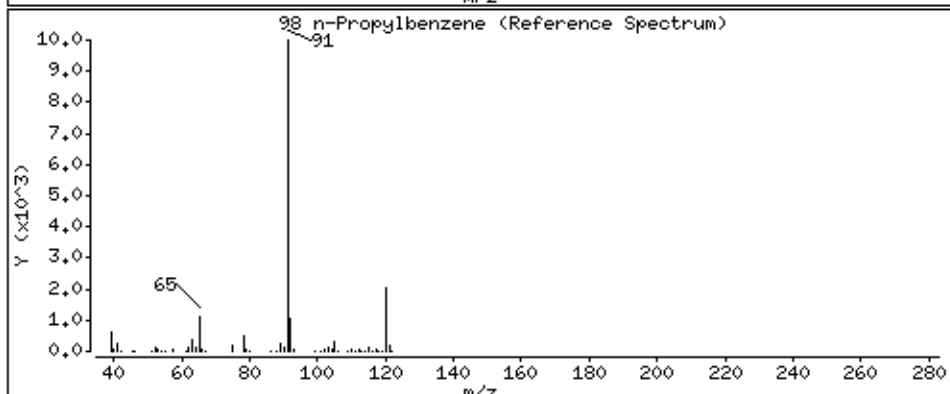
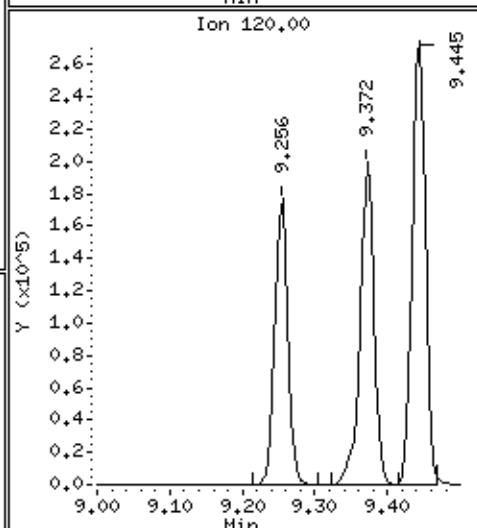
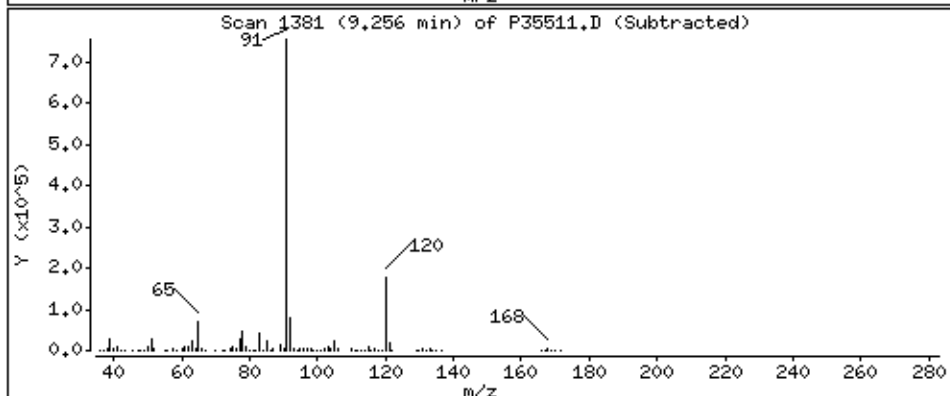
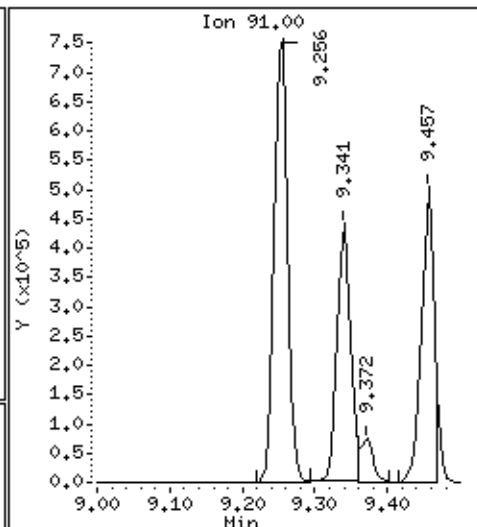
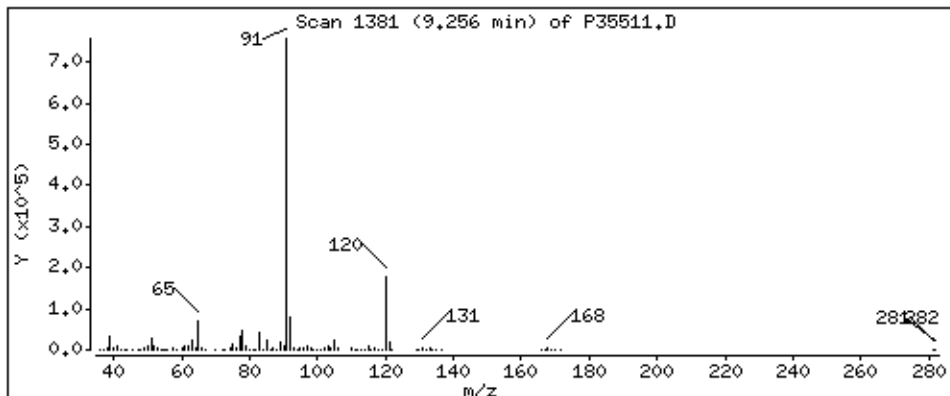
Column phase: RTX-624

Column diameter: 0,18

98 n-Propylbenzene

Concentration: 47.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

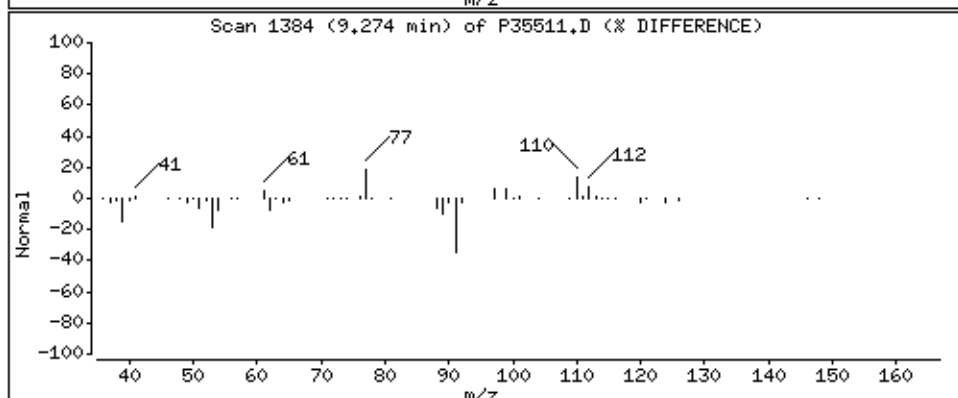
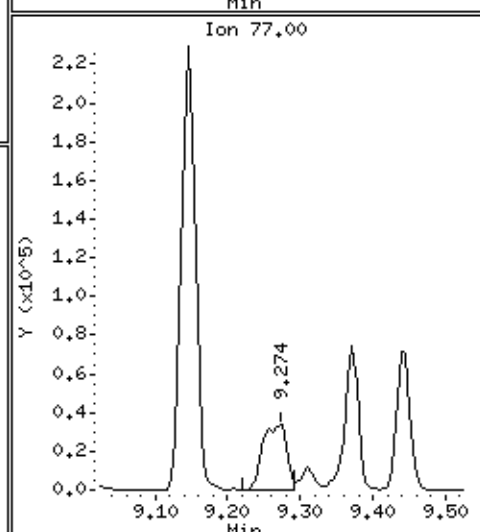
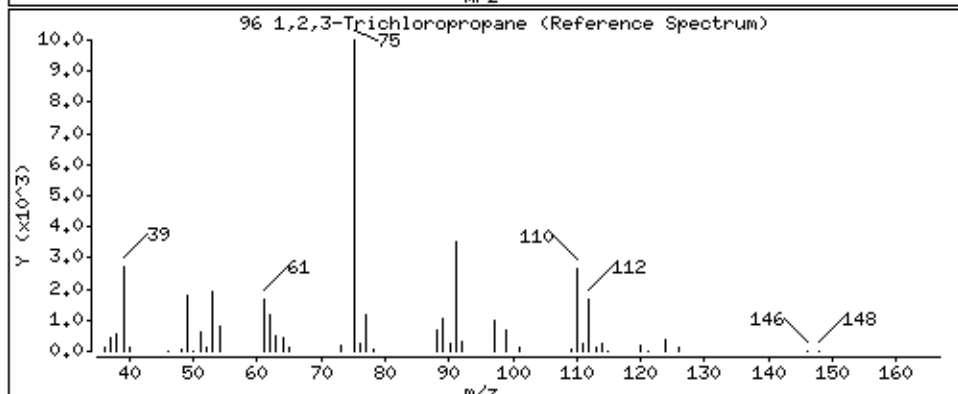
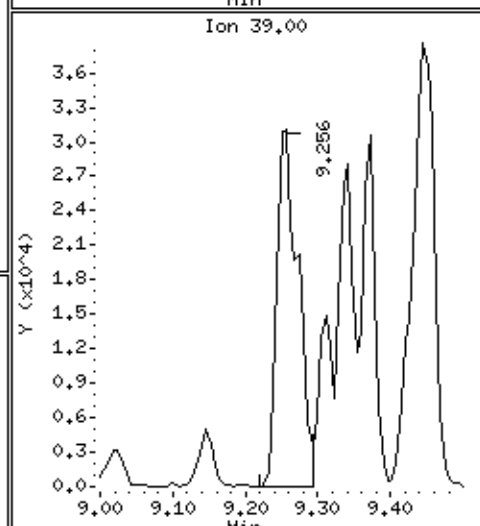
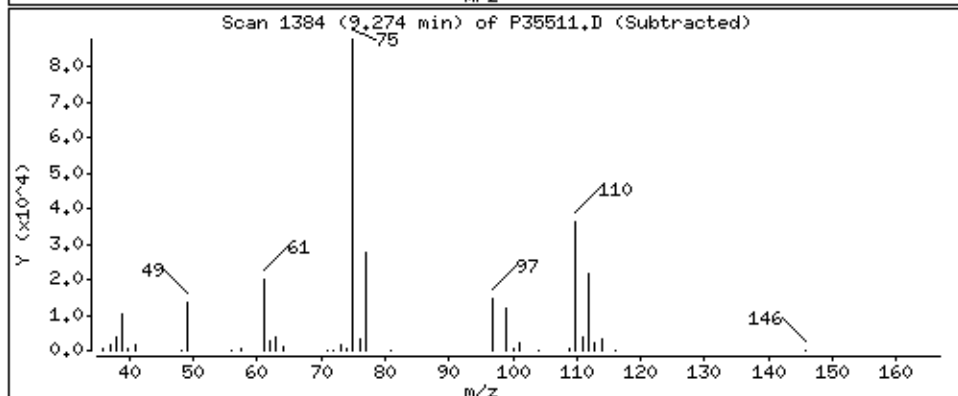
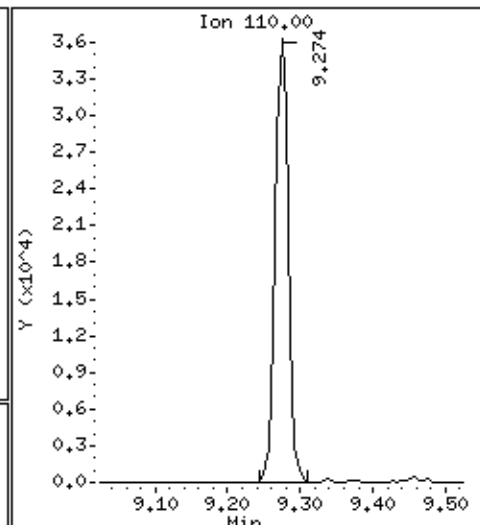
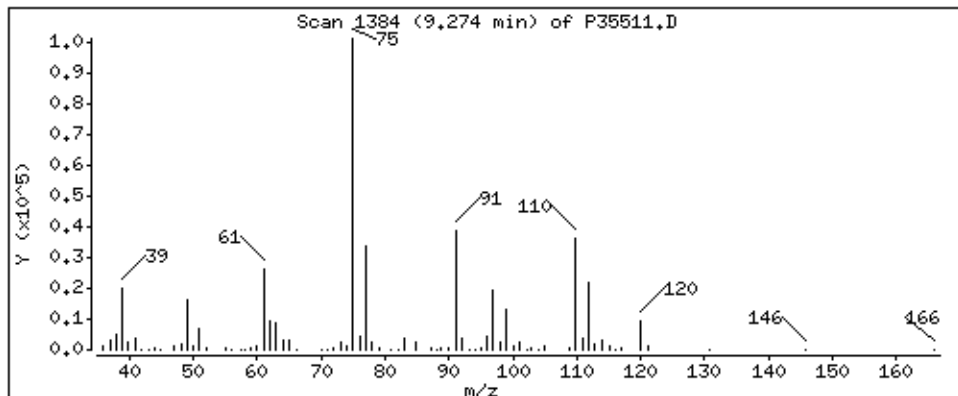
Column phase: RTX-624

Column diameter: 0,18

96 1,2,3-Trichloropropane

Concentration: 46,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

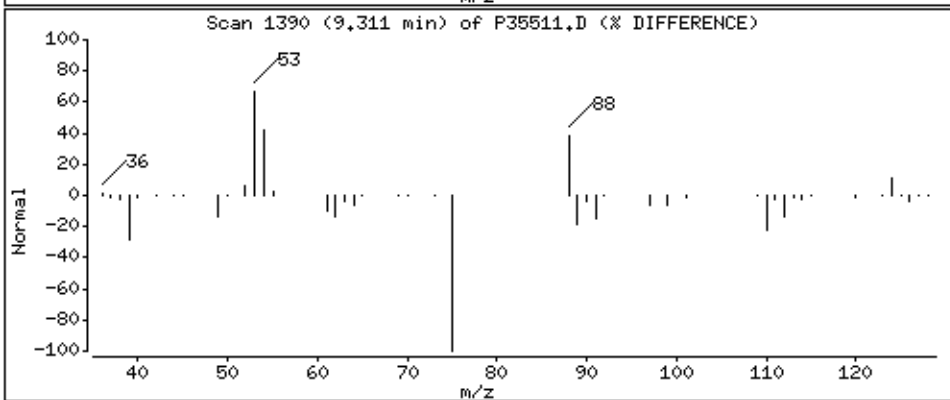
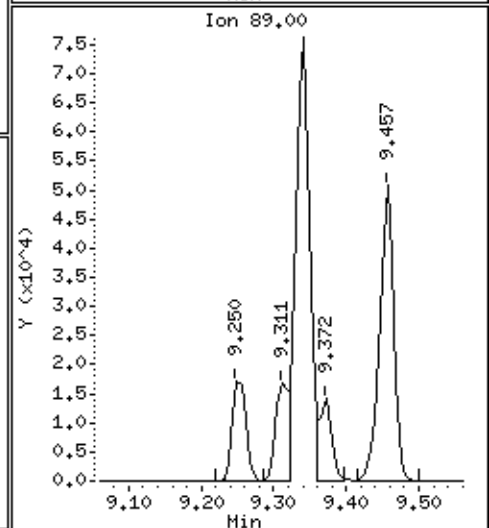
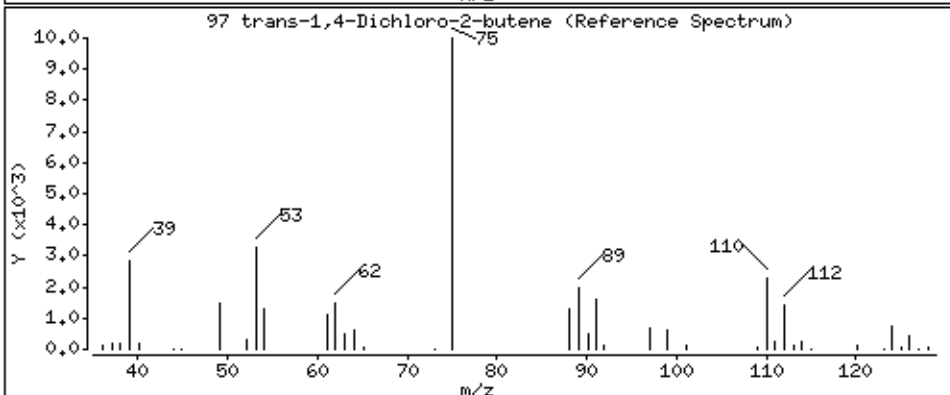
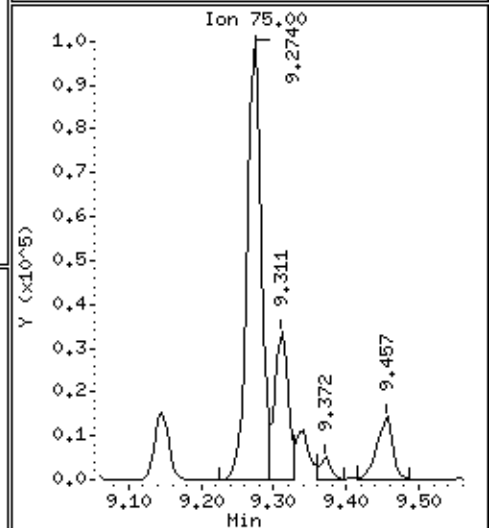
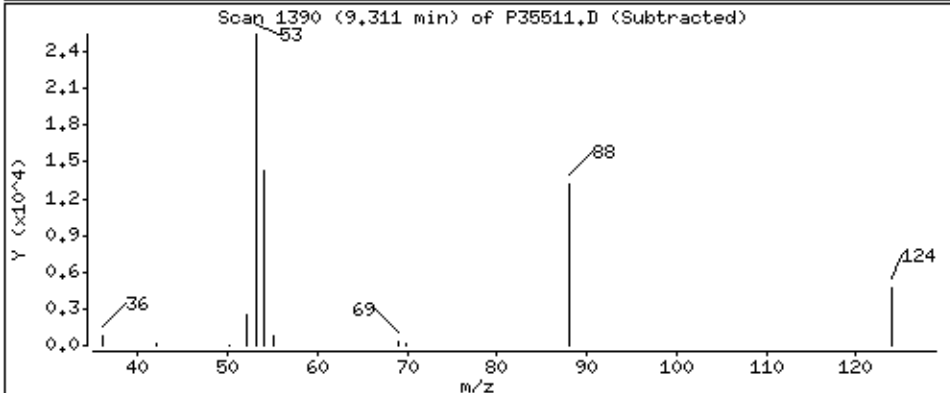
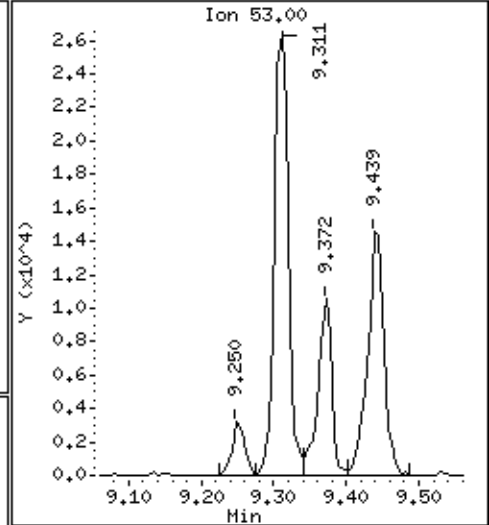
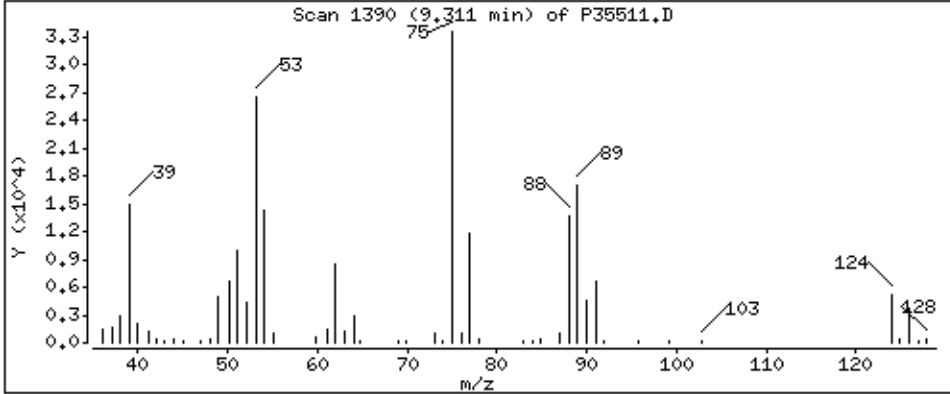
Column phase: RTX-624

Column diameter: 0,18

97 trans-1,4-Dichloro-2-butene

Concentration: 50,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

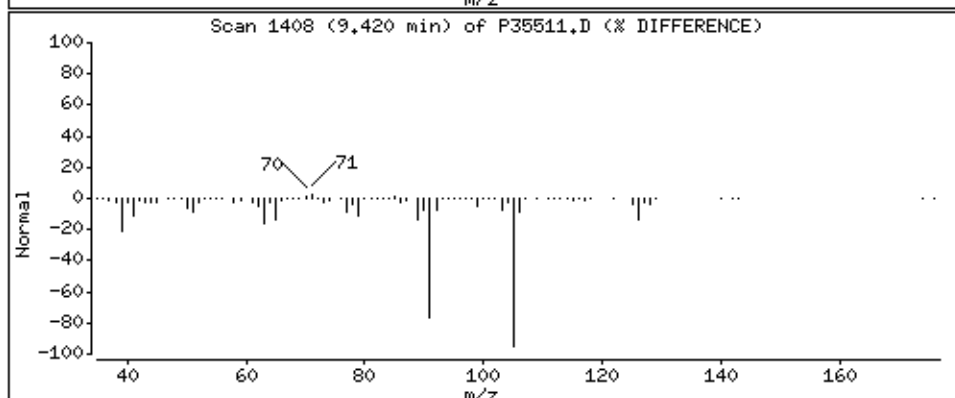
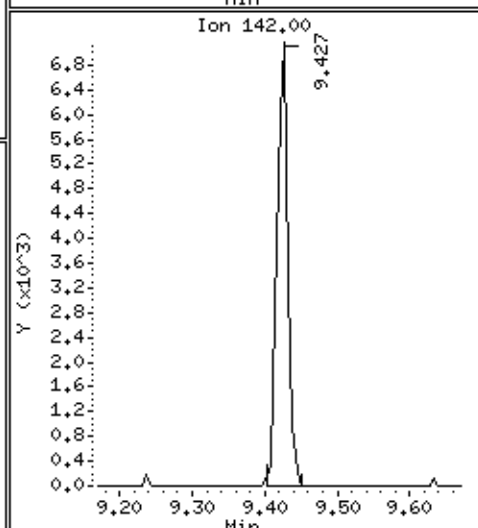
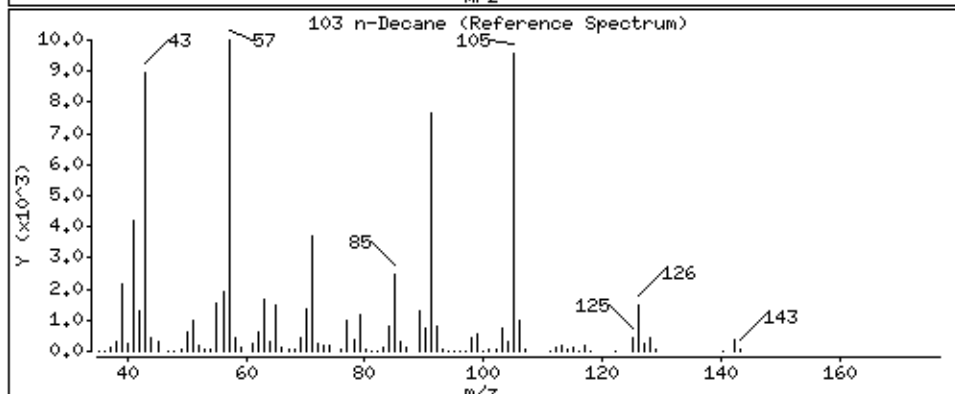
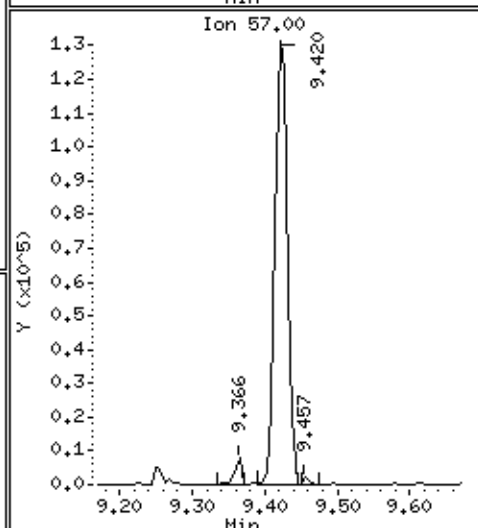
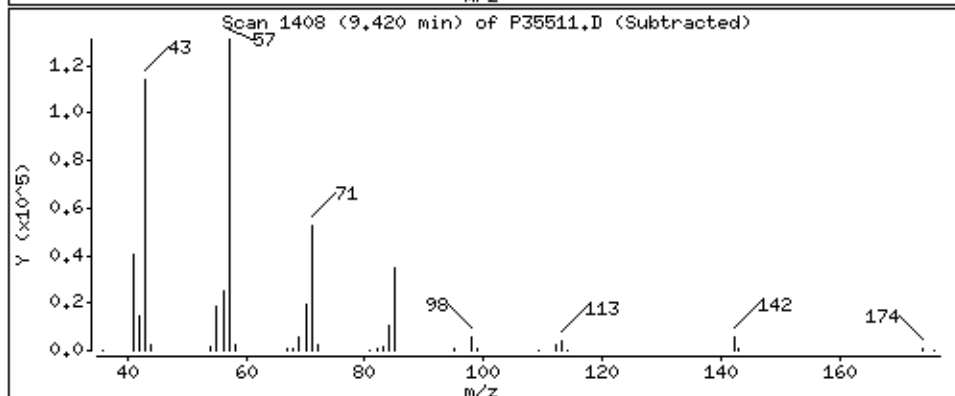
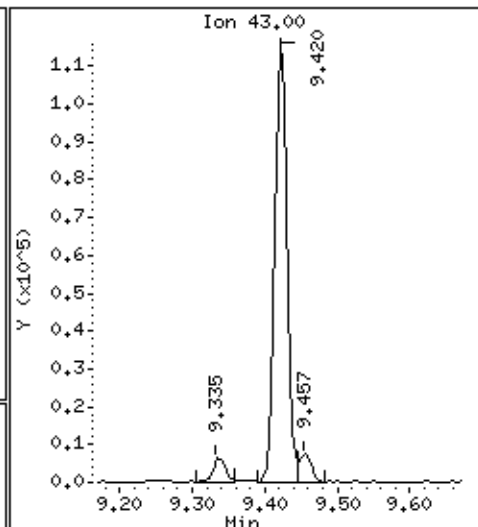
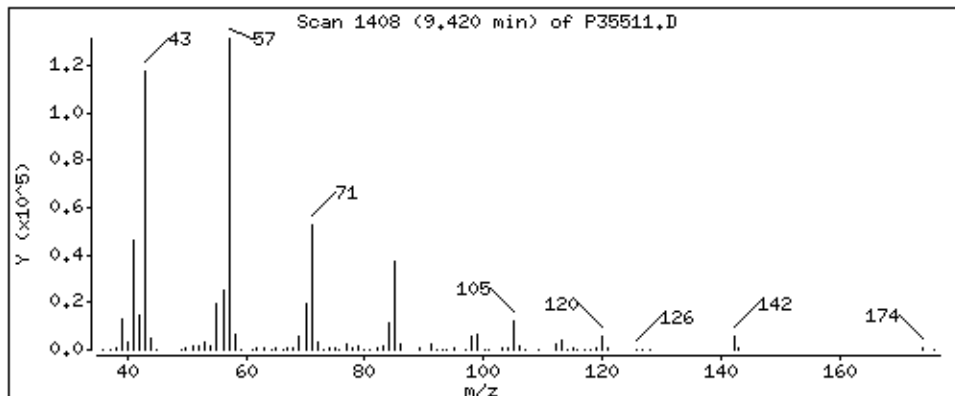
Column phase: RTX-624

Column diameter: 0,18

103 n-Decane

Concentration: 46,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

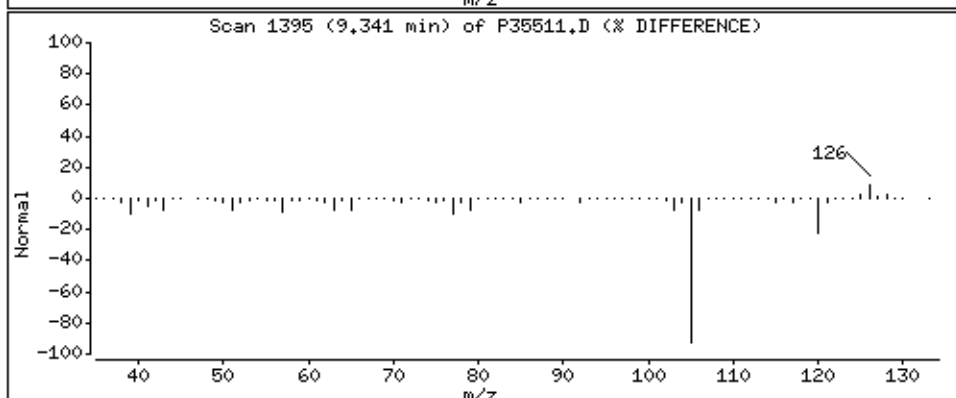
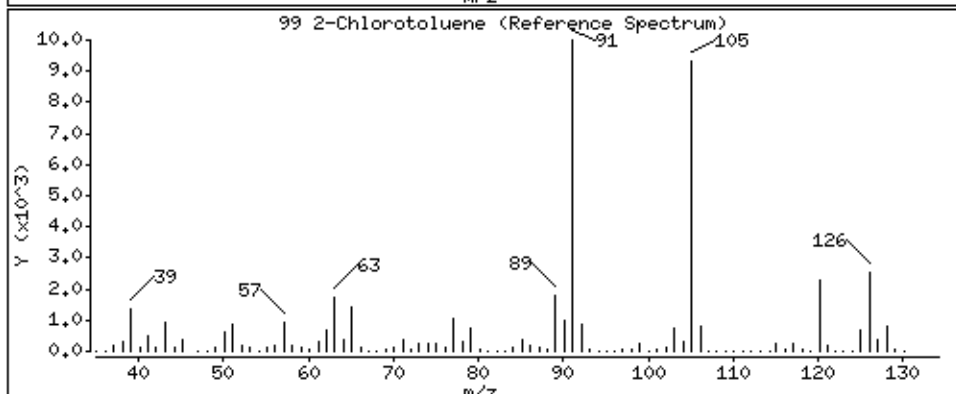
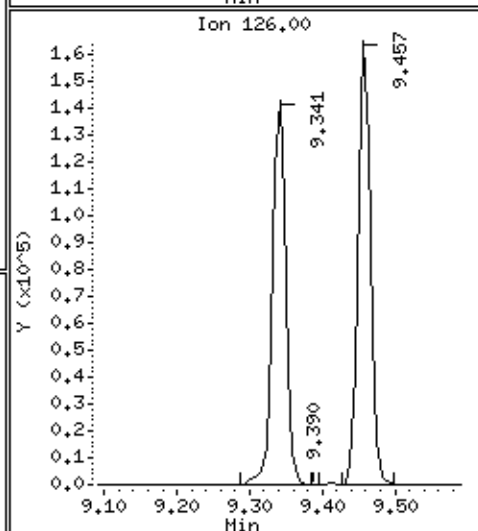
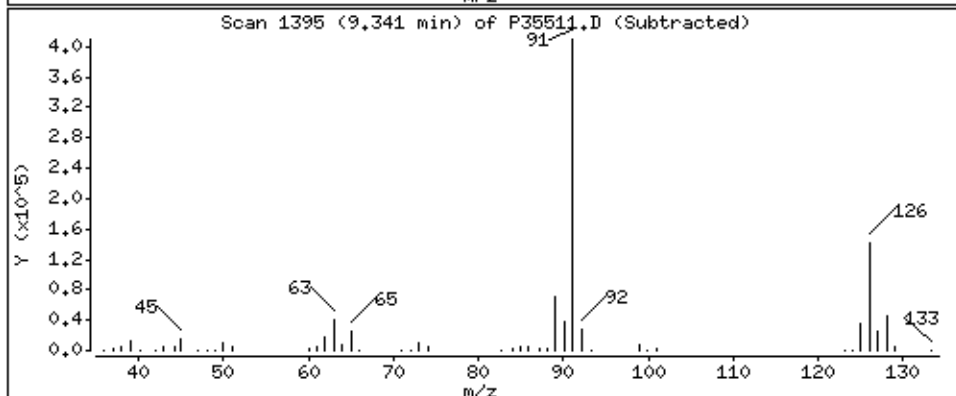
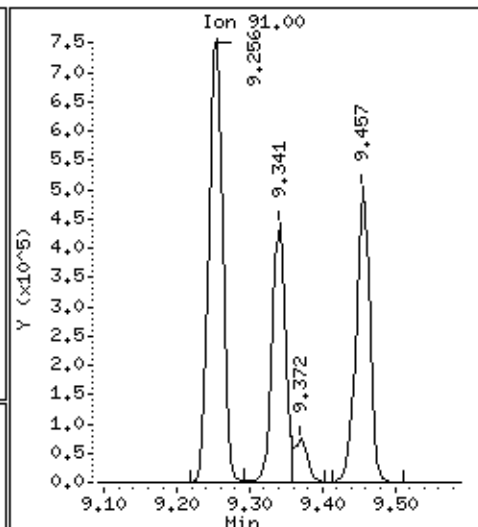
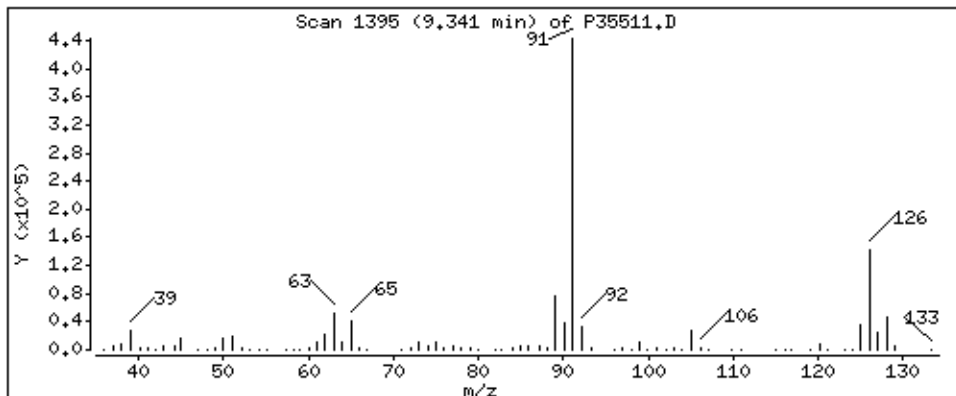
Column phase: RTX-624

Column diameter: 0,18

99 2-Chlorotoluene

Concentration: 46,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

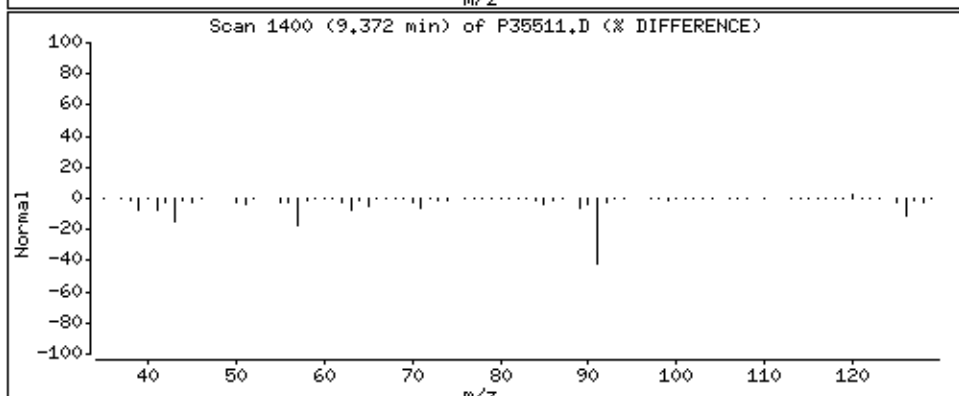
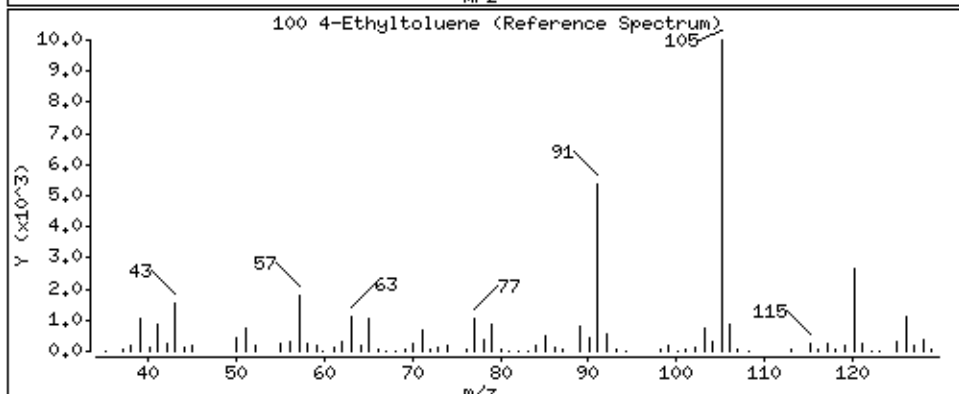
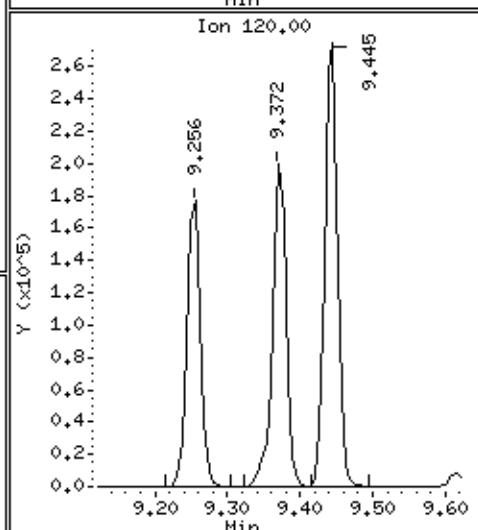
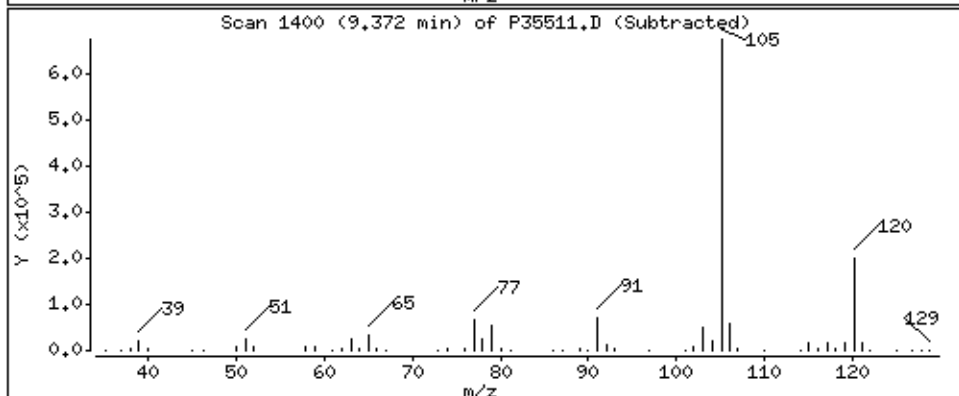
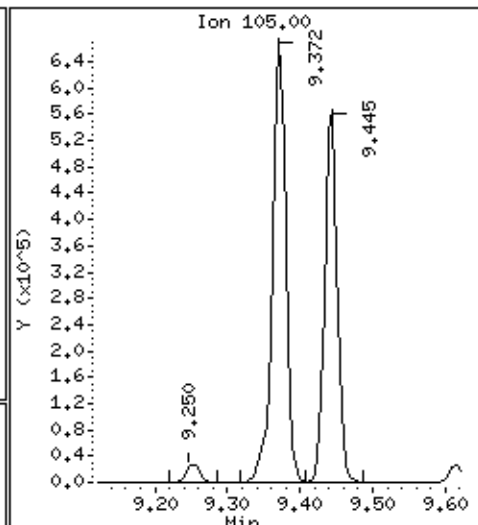
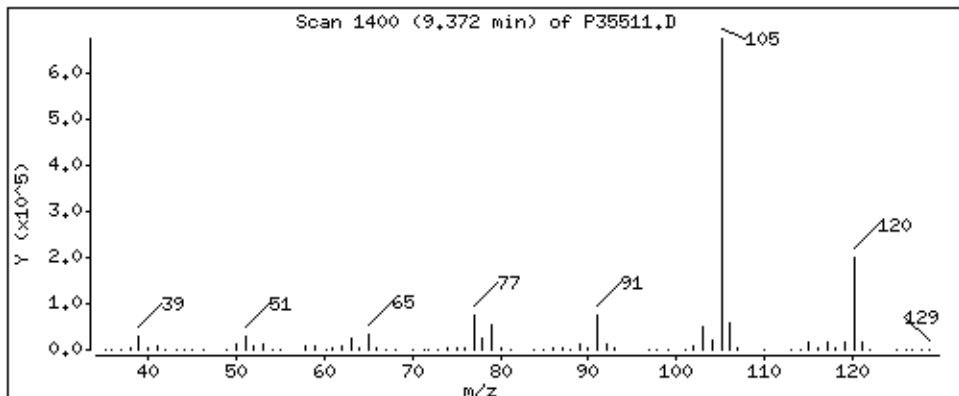
Column phase: RTX-624

Column diameter: 0,18

100 4-Ethyltoluene

Concentration: 49,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

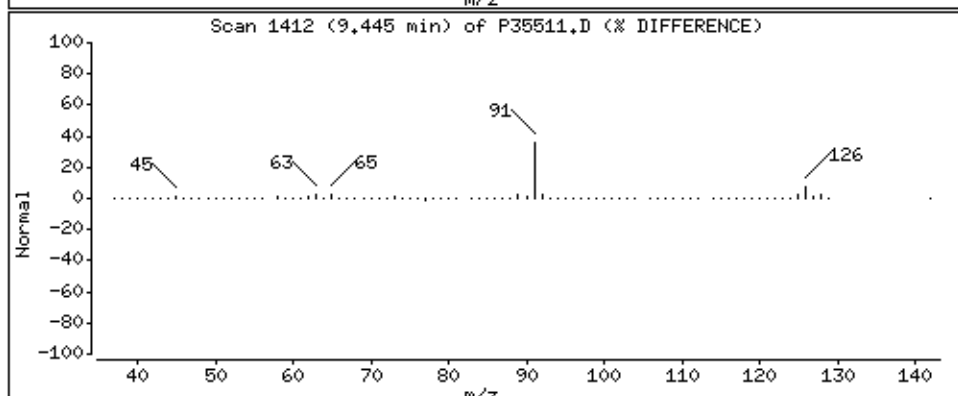
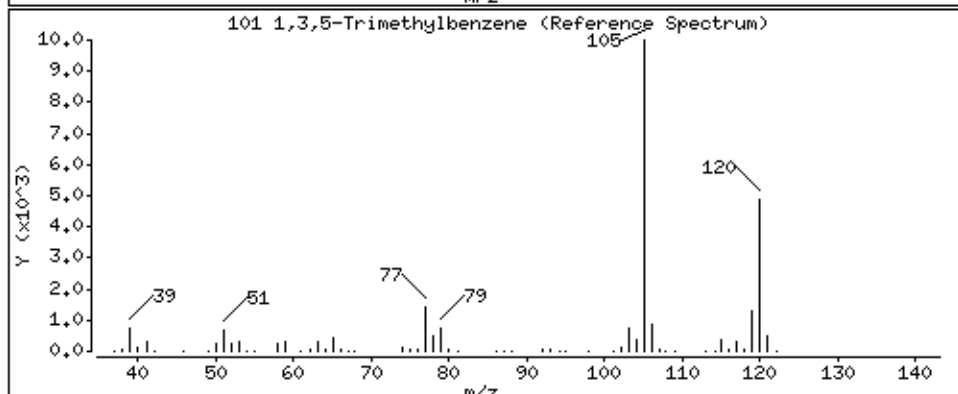
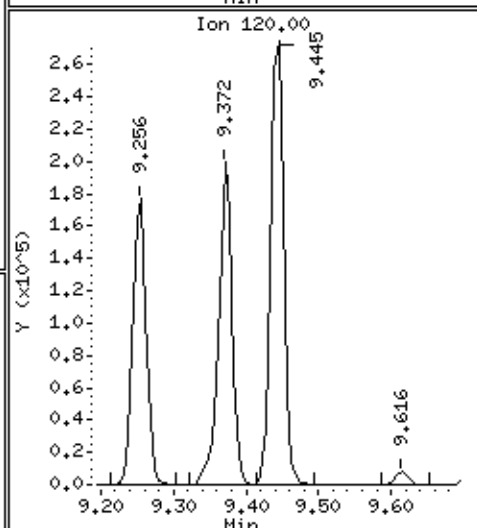
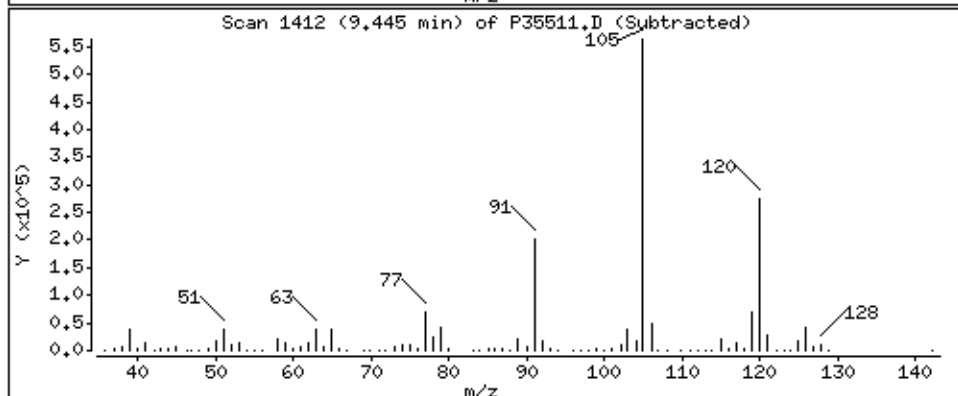
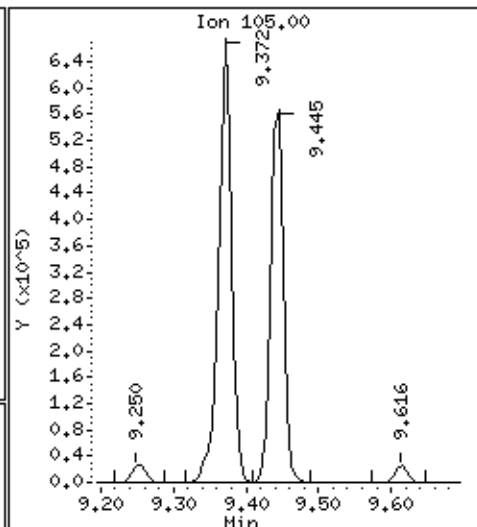
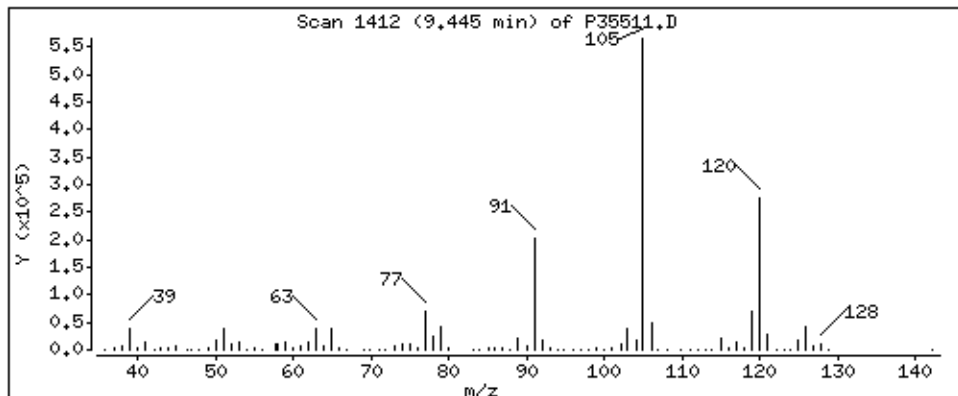
Column phase: RTX-624

Column diameter: 0,18

101 1,3,5-Trimethylbenzene

Concentration: 51.8 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

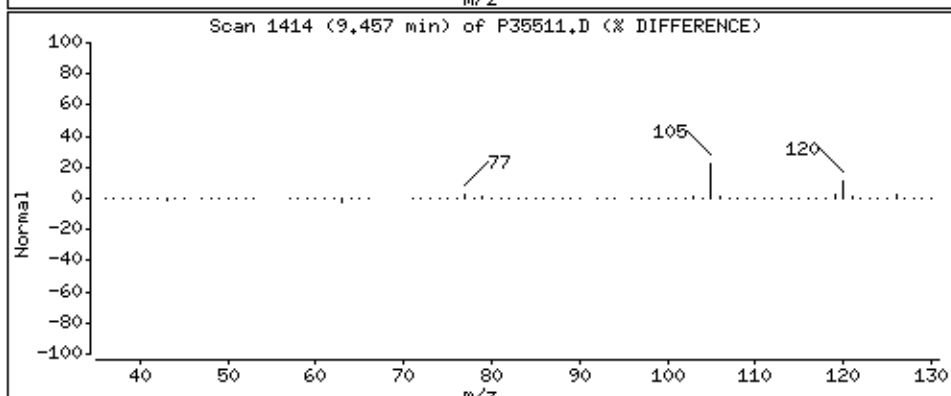
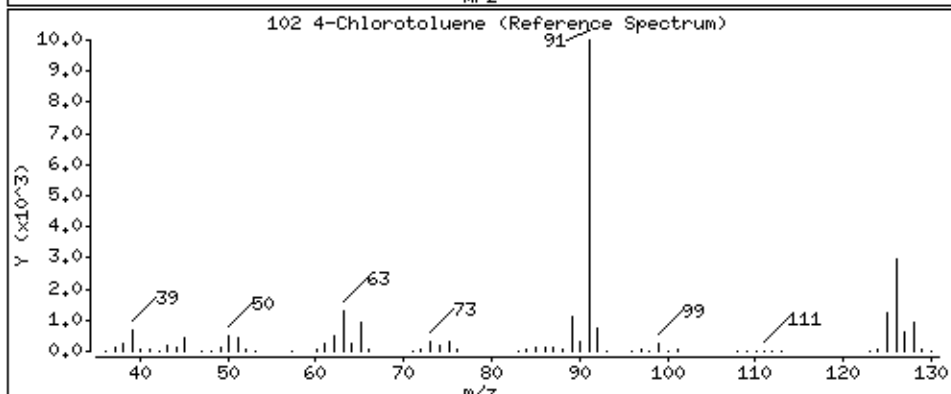
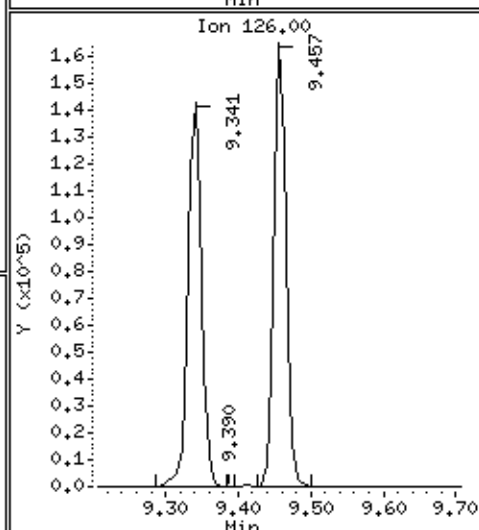
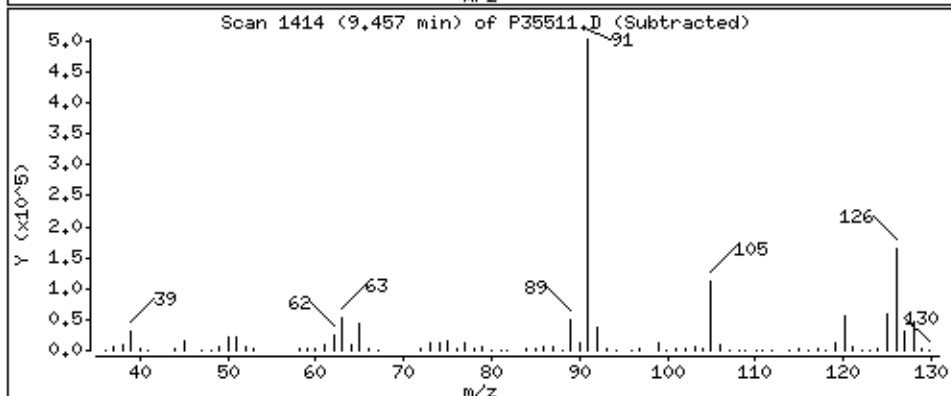
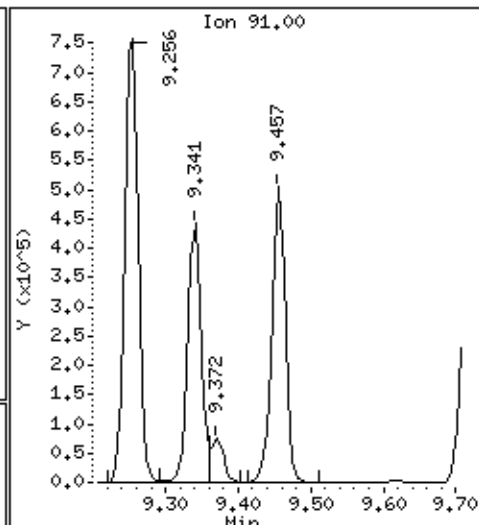
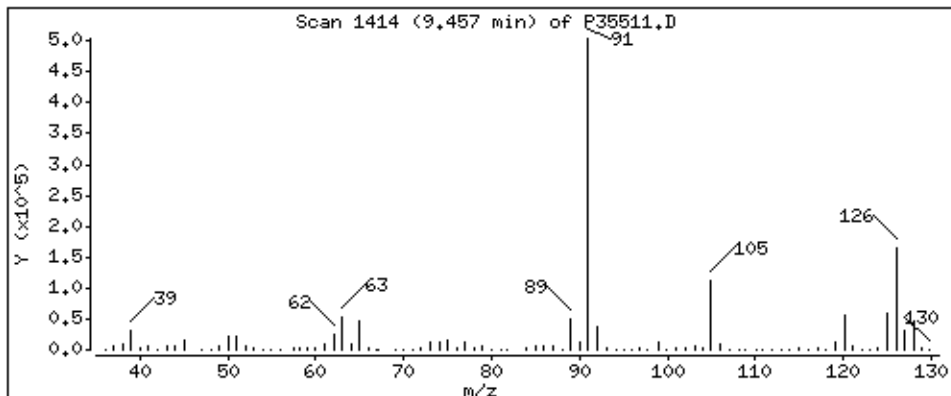
Column phase: RTX-624

Column diameter: 0.18

102 4-Chlorotoluene

Concentration: 47.6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

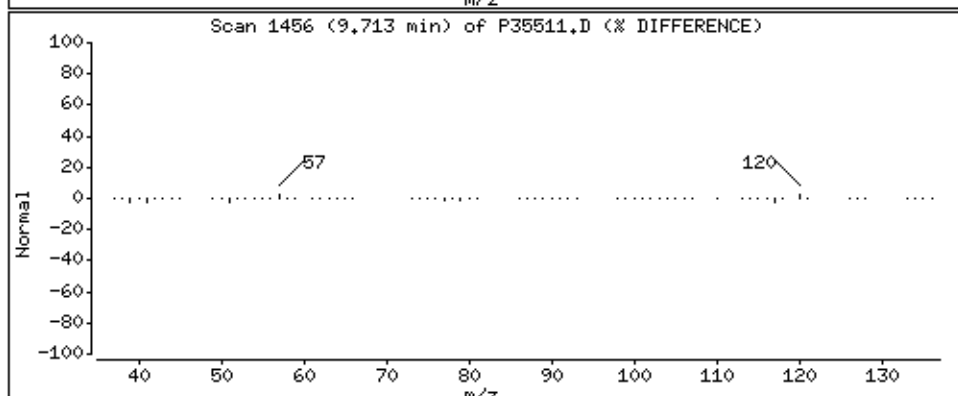
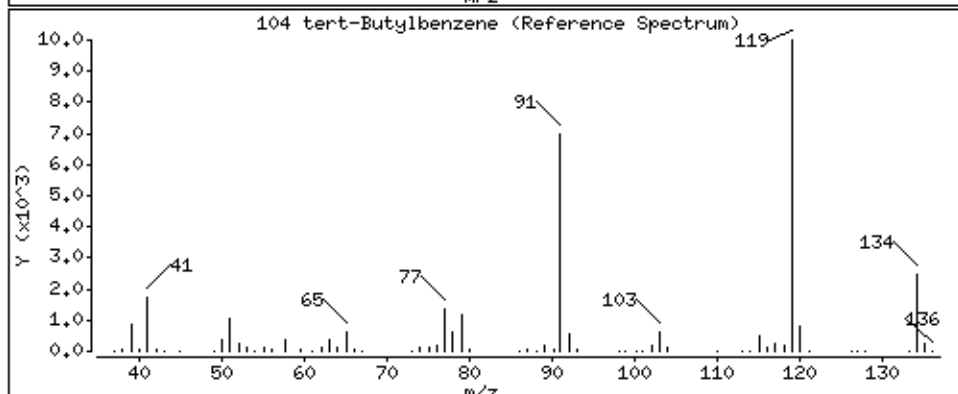
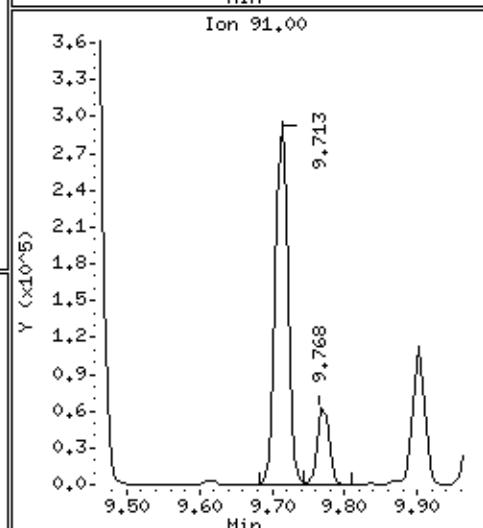
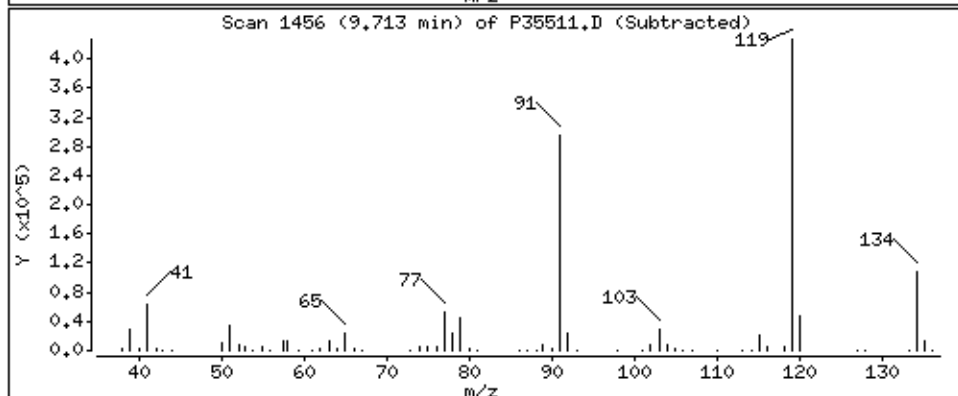
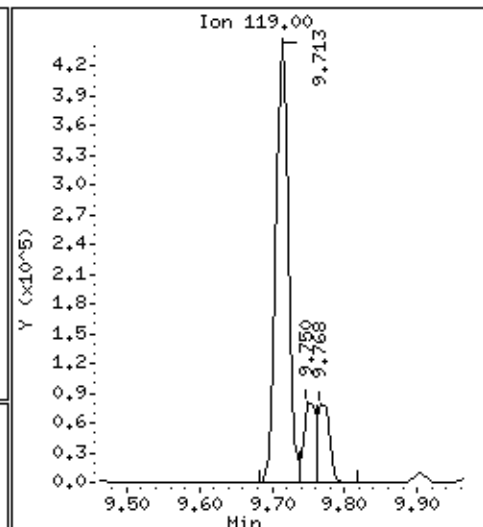
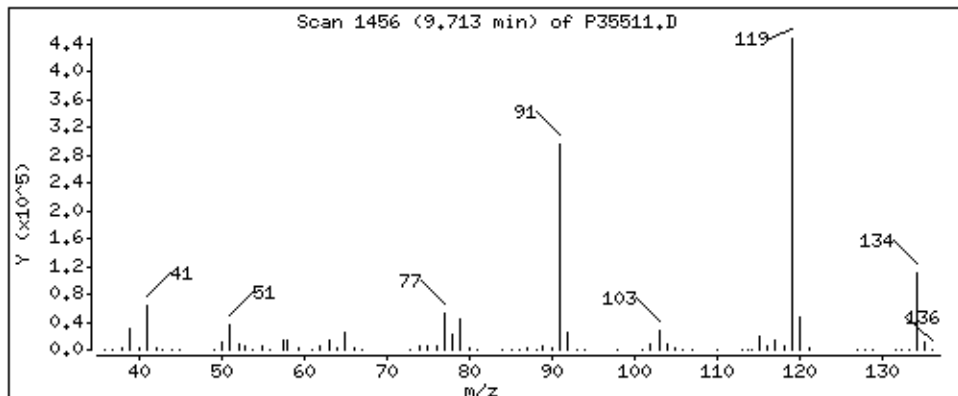
Column phase: RTX-624

Column diameter: 0.18

104 tert-Butylbenzene

Concentration: 47.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

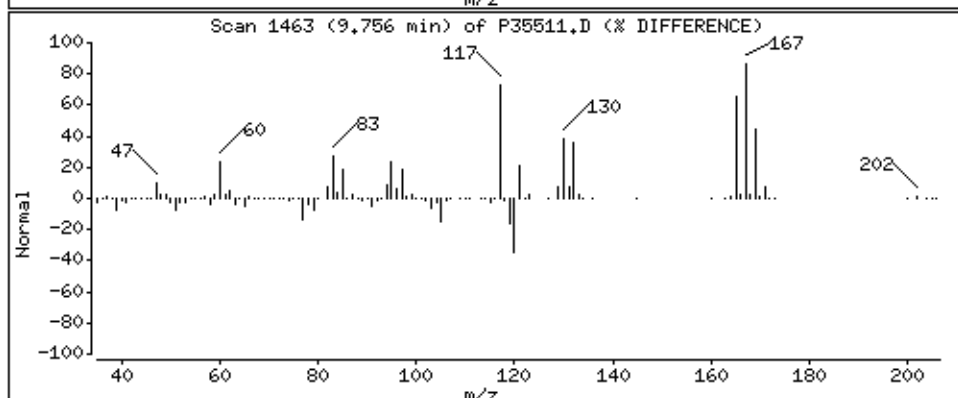
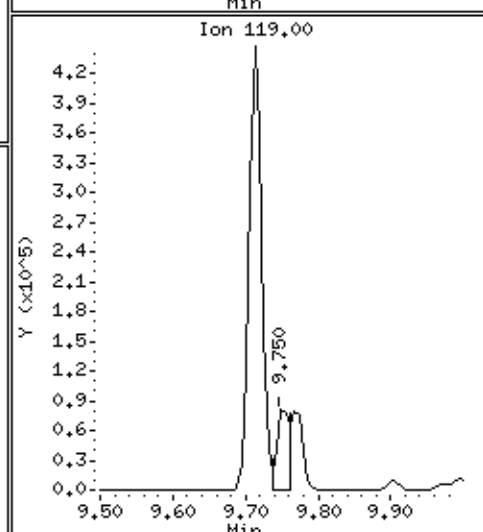
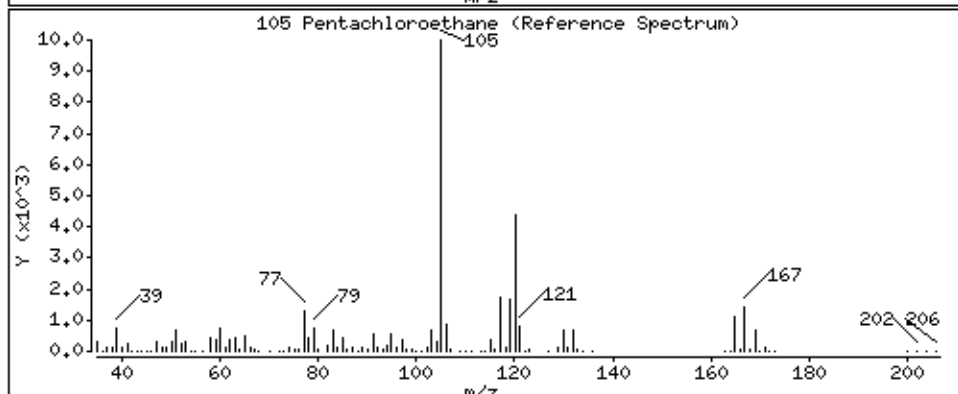
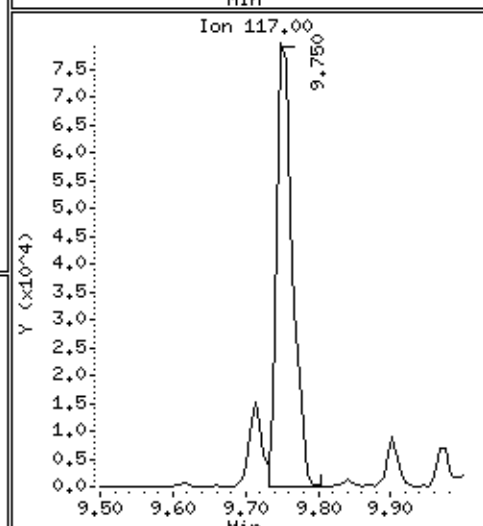
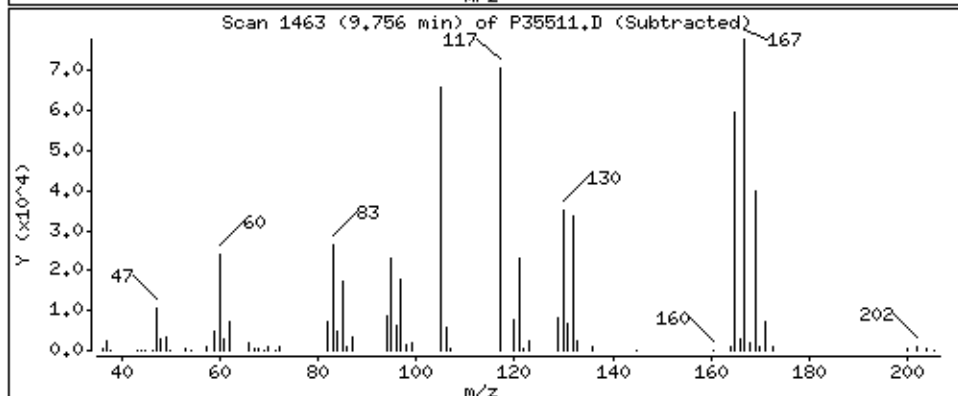
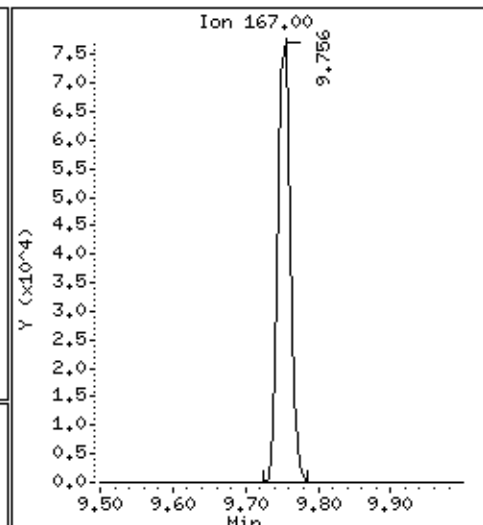
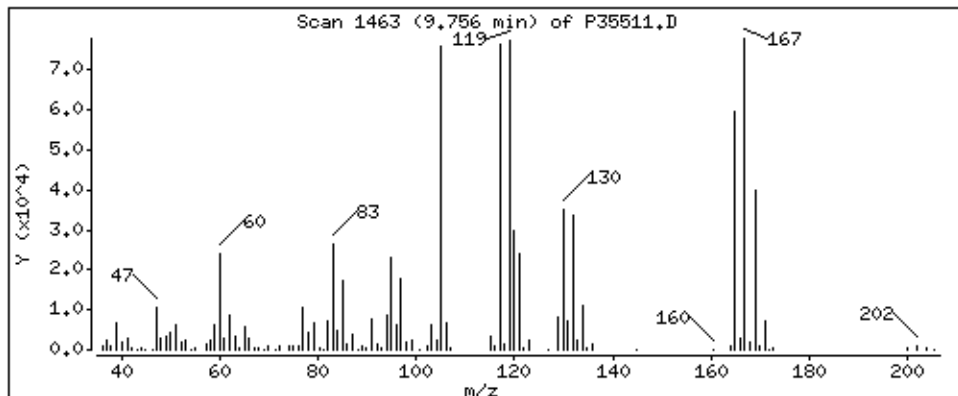
Column phase: RTX-624

Column diameter: 0.18

105 Pentachloroethane

Concentration: 47.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

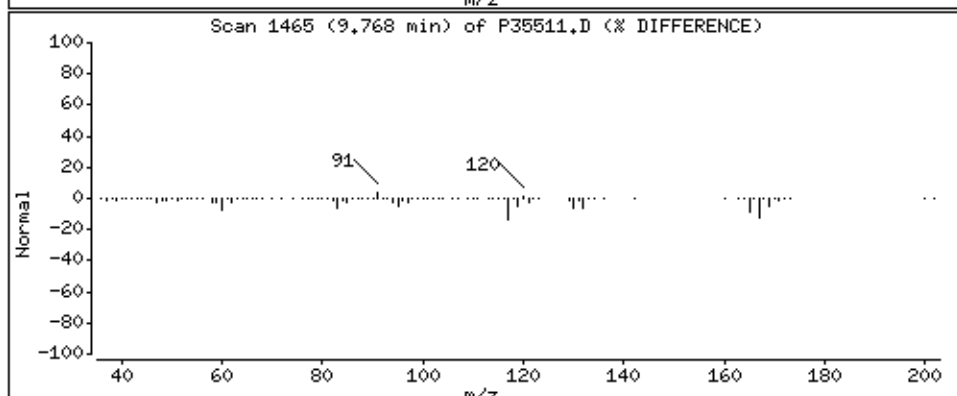
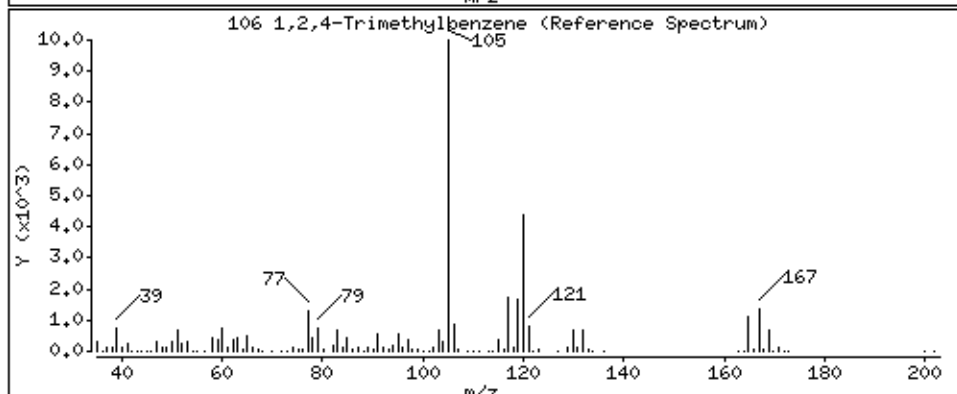
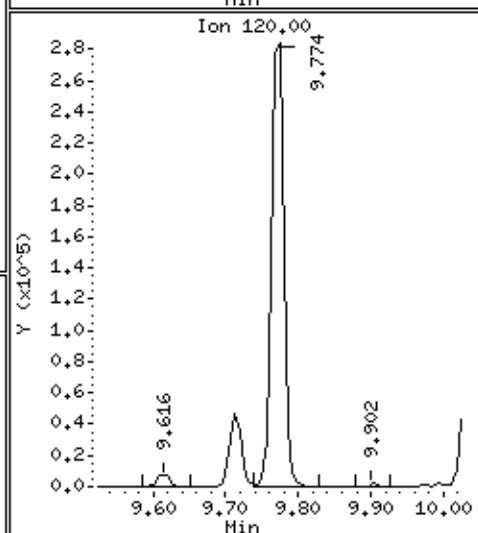
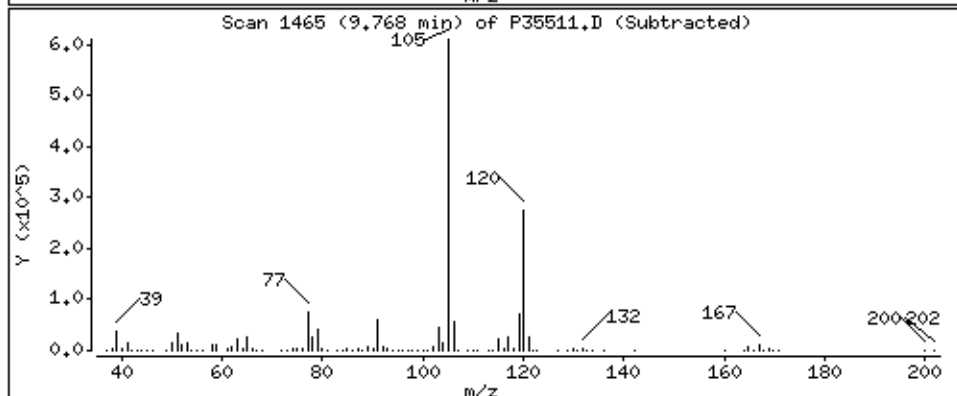
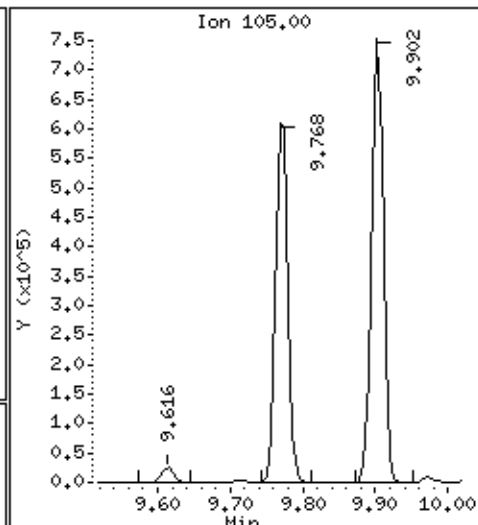
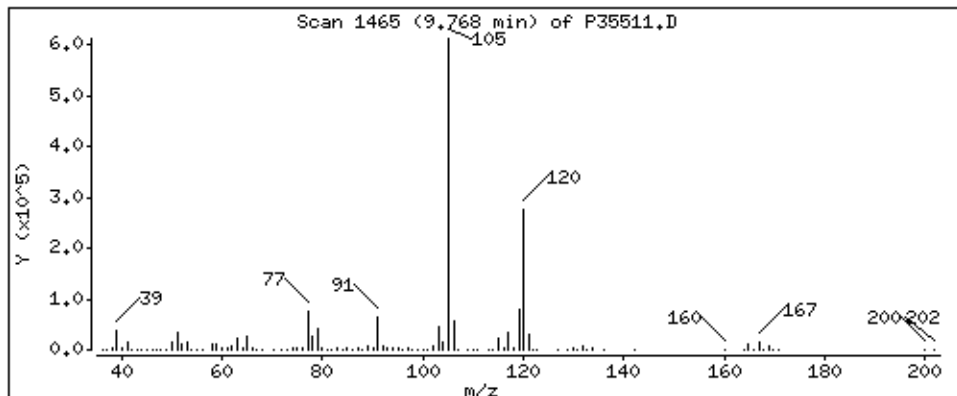
Column phase: RTX-624

Column diameter: 0,18

106 1,2,4-Trimethylbenzene

Concentration: 53,3 ug/L

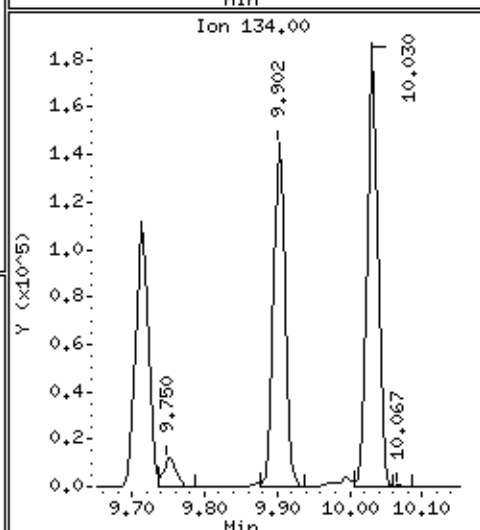
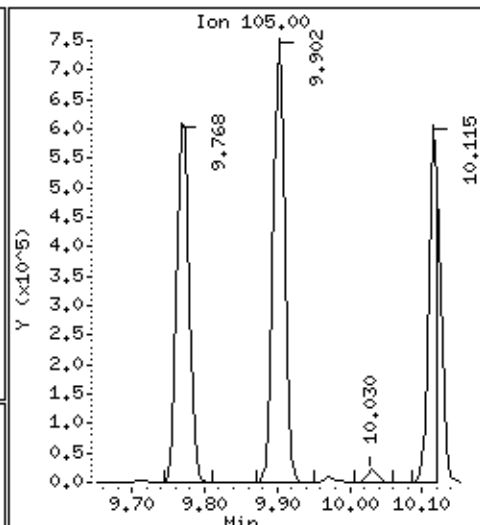
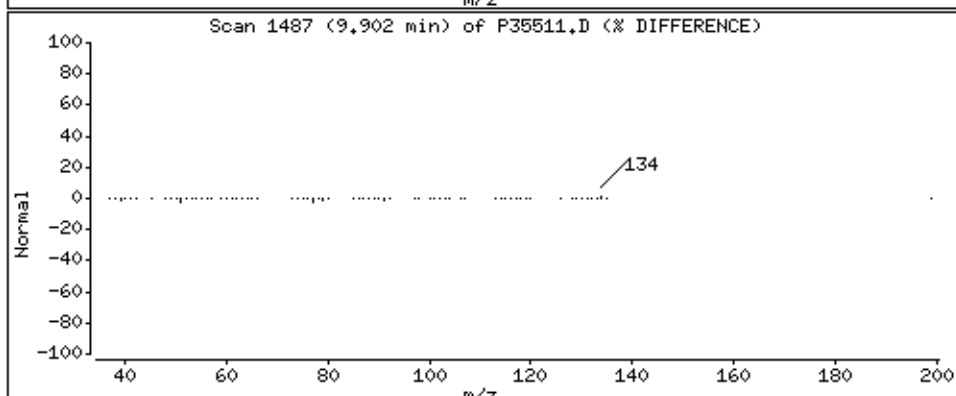
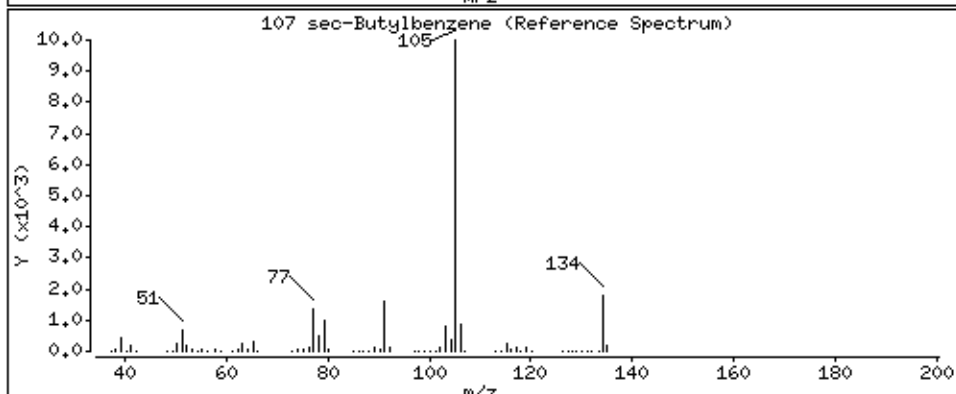
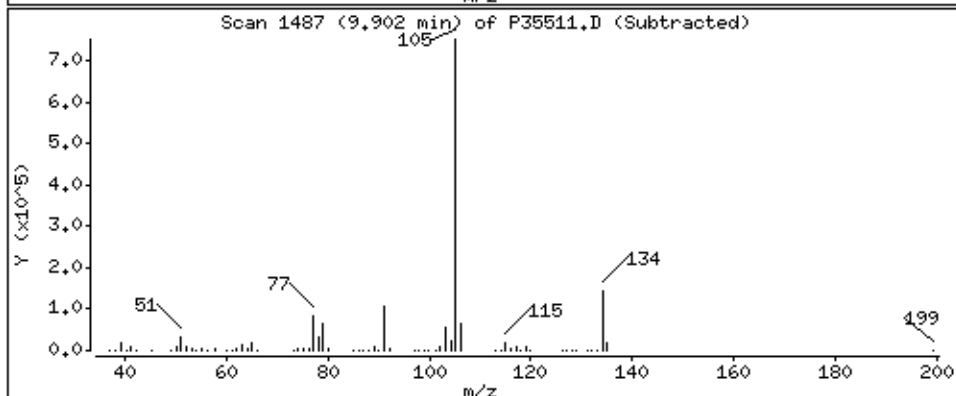
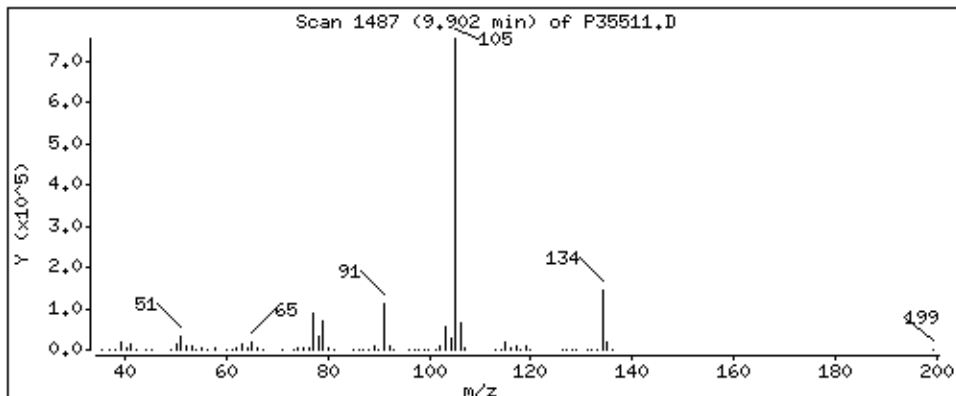
Review Code:



107 sec-Butylbenzene

Concentration: 47,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

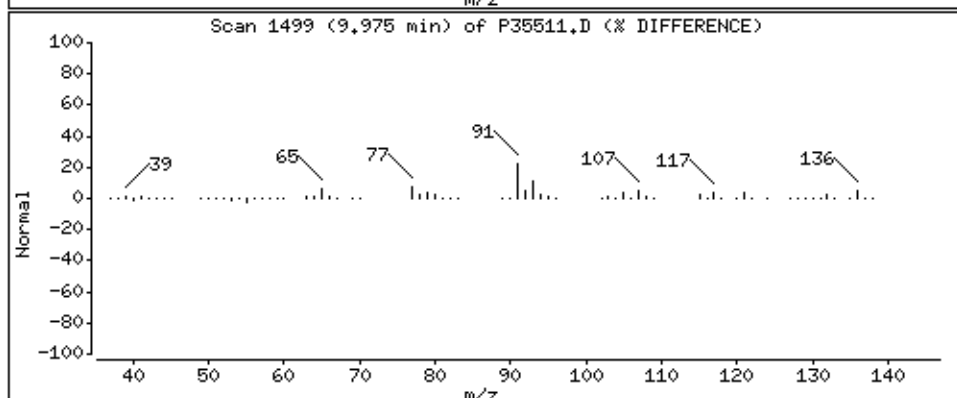
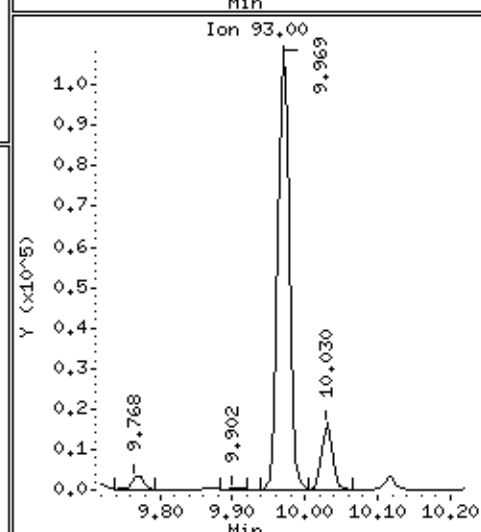
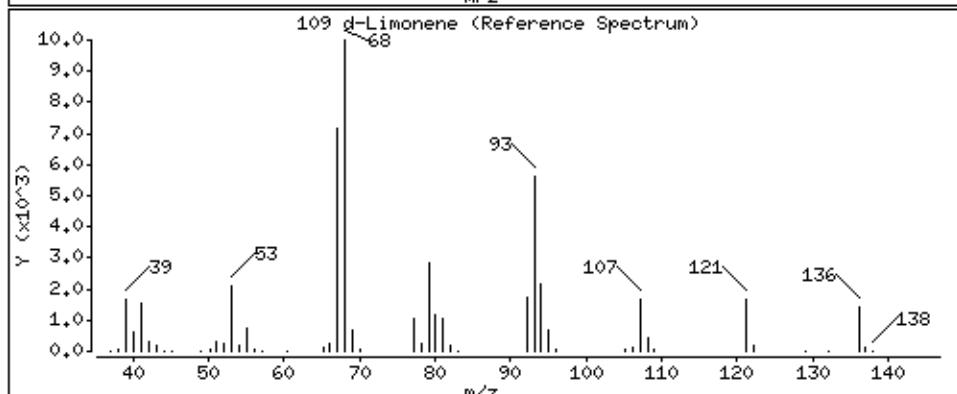
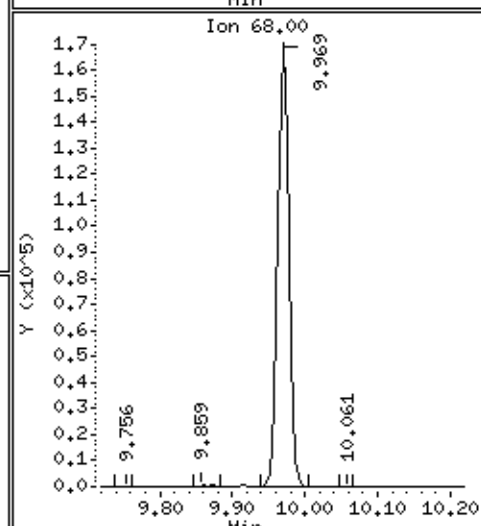
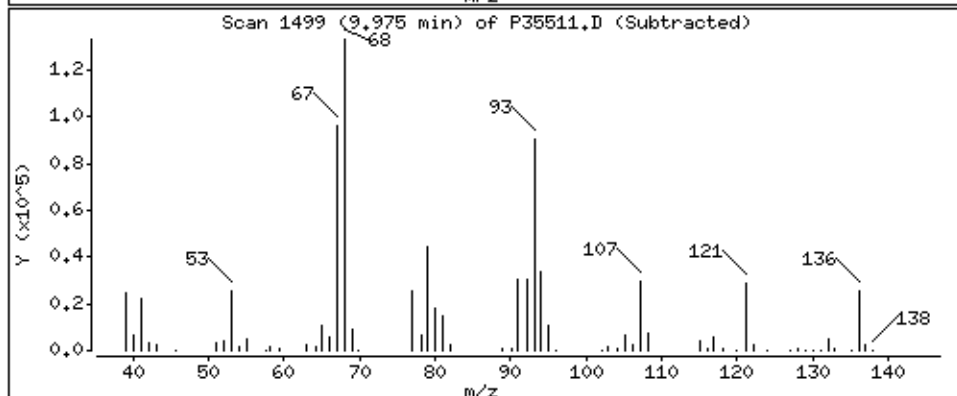
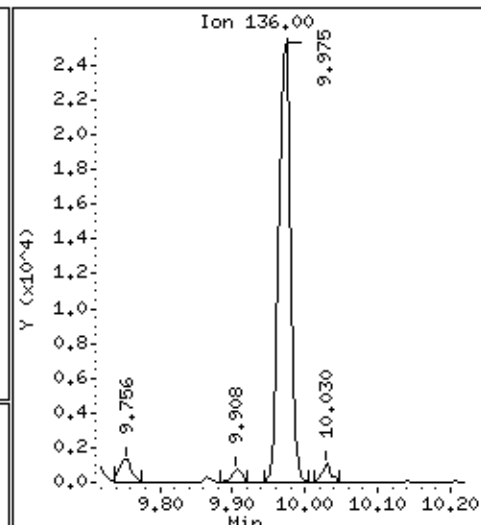
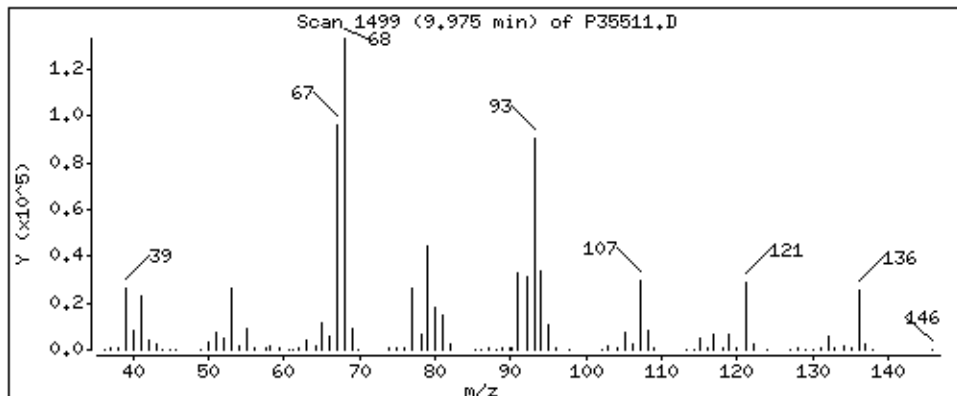
Column phase: RTX-624

Column diameter: 0.18

109 d-Limonene

Concentration: 48.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

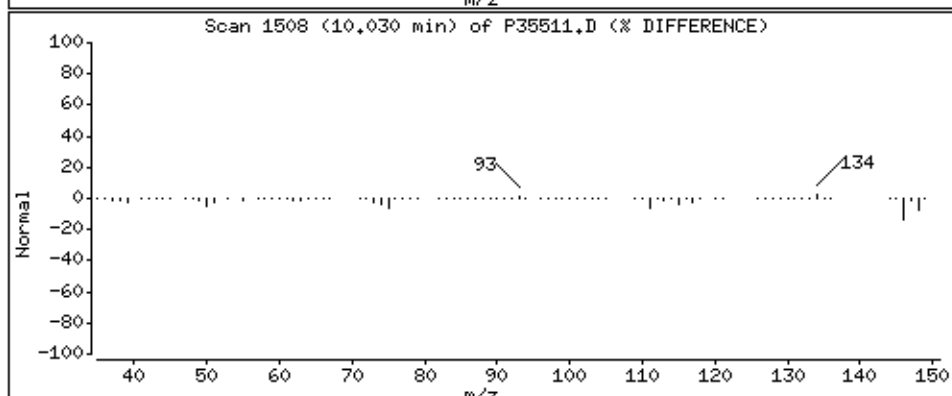
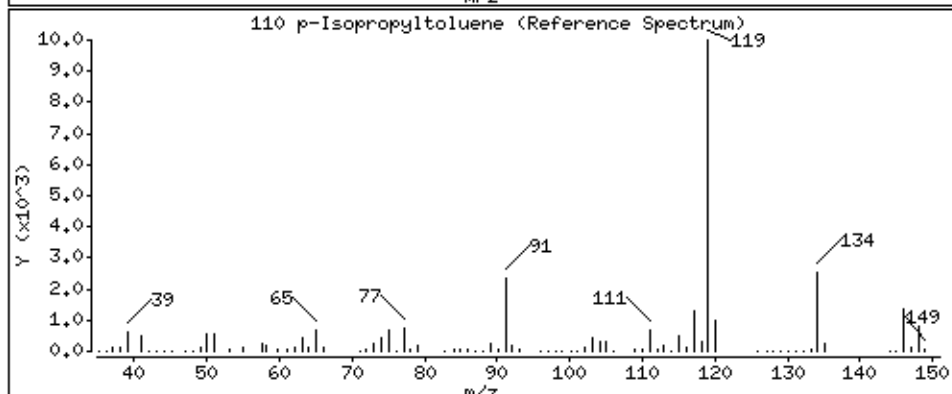
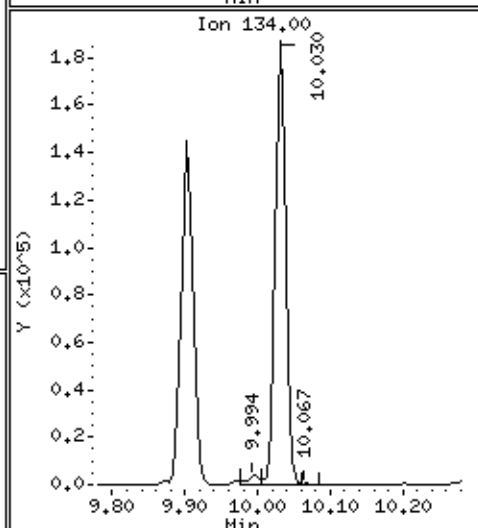
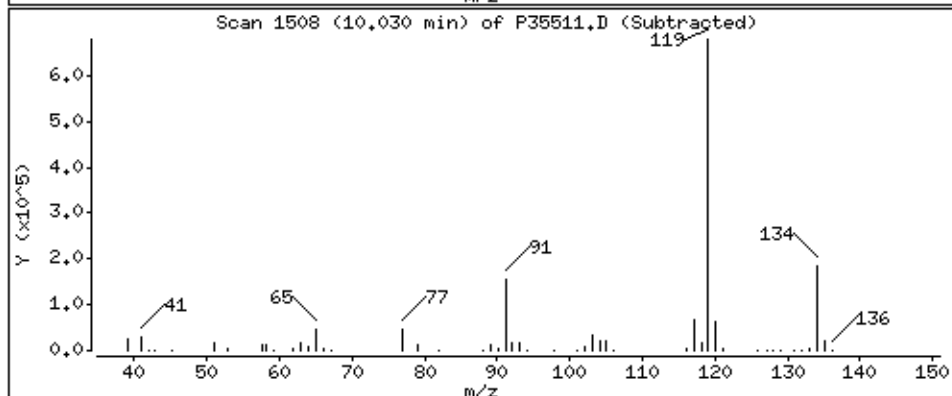
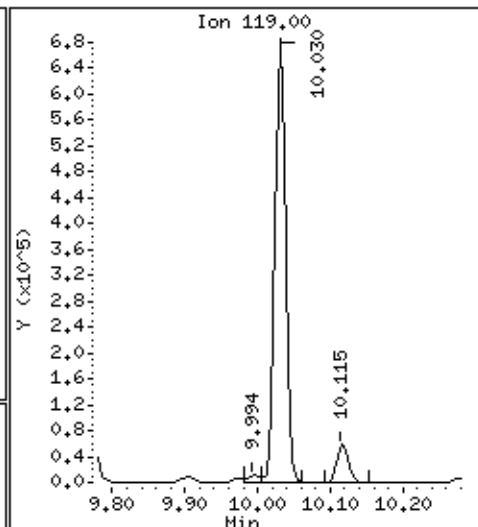
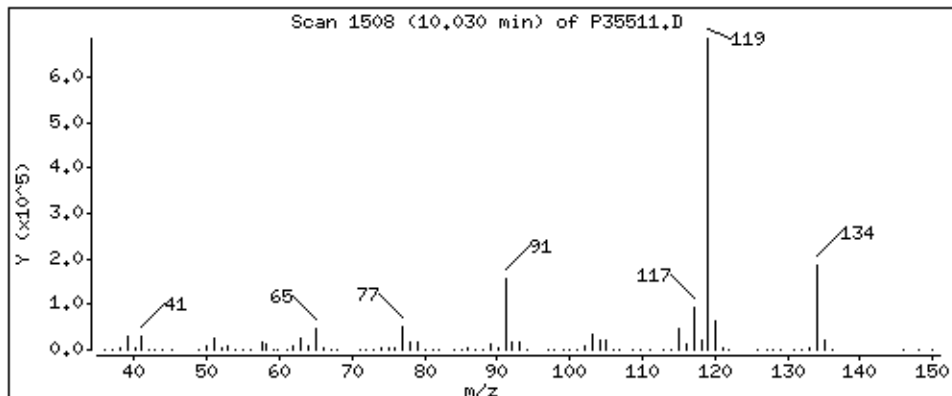
Column phase: RTX-624

Column diameter: 0,18

110 p-Isopropyltoluene

Concentration: 49,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

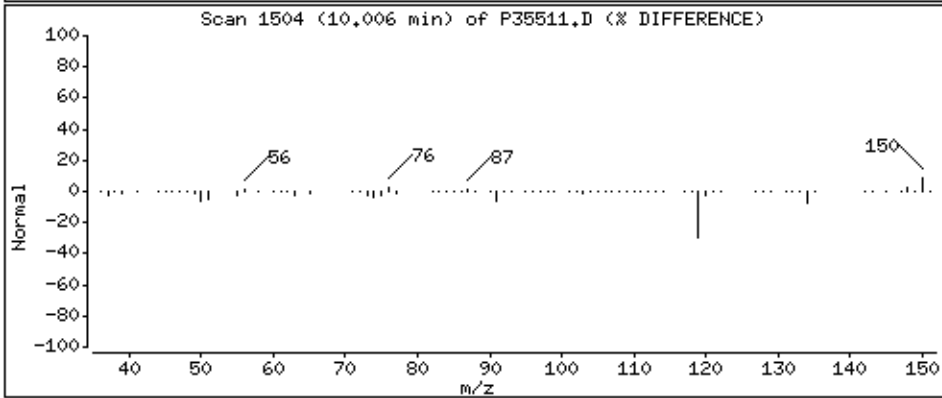
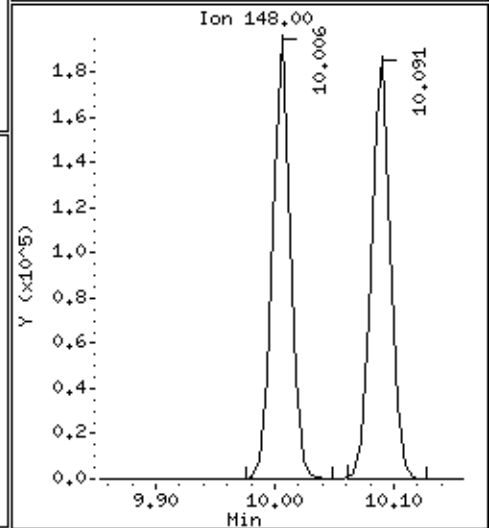
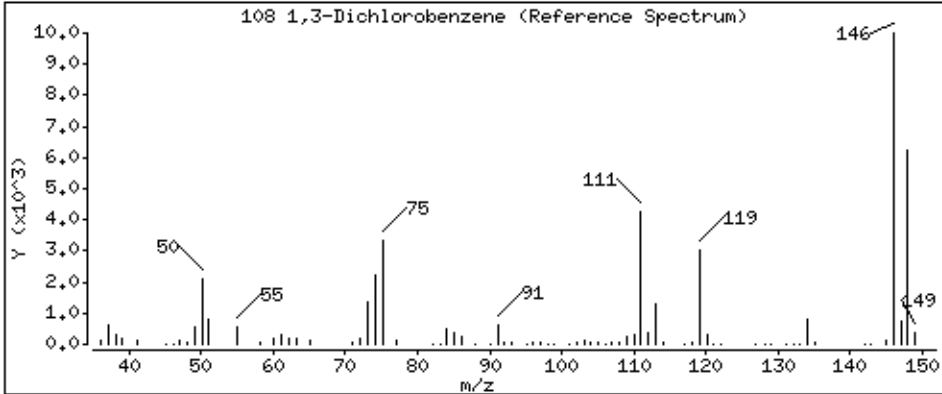
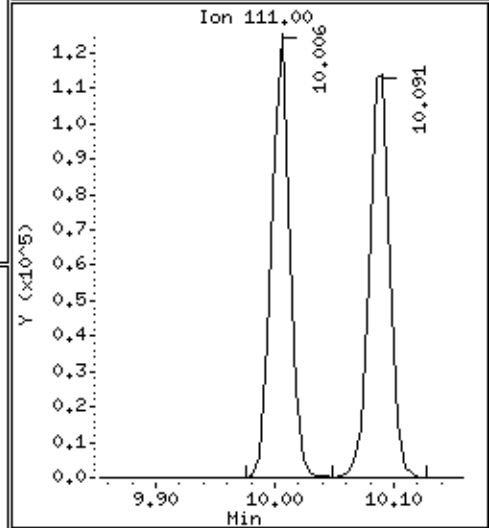
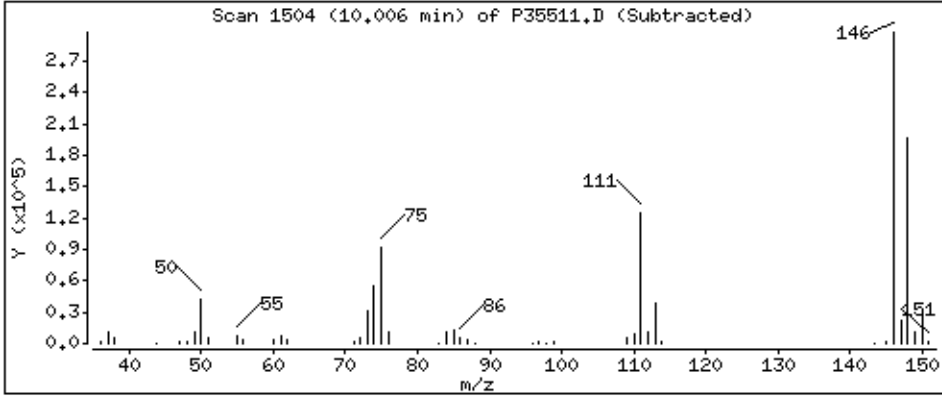
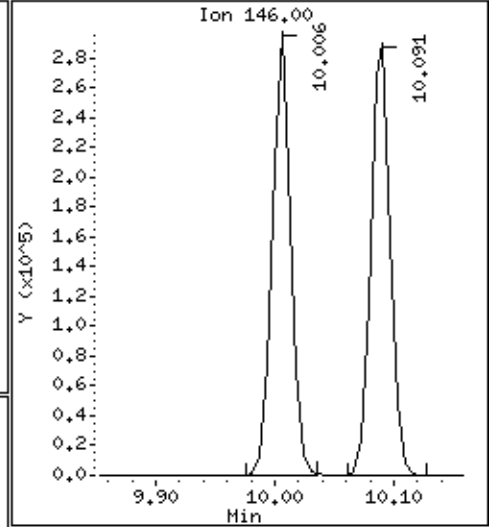
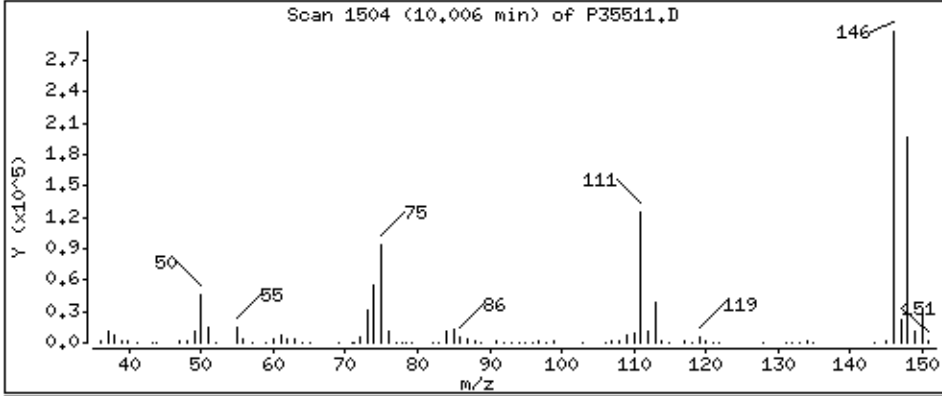
Column phase: RTX-624

Column diameter: 0.18

108 1,3-Dichlorobenzene

Concentration: 46.0 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

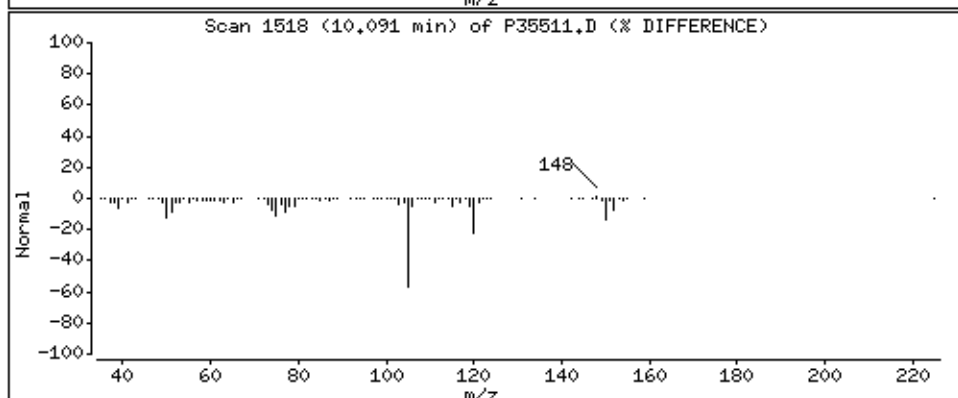
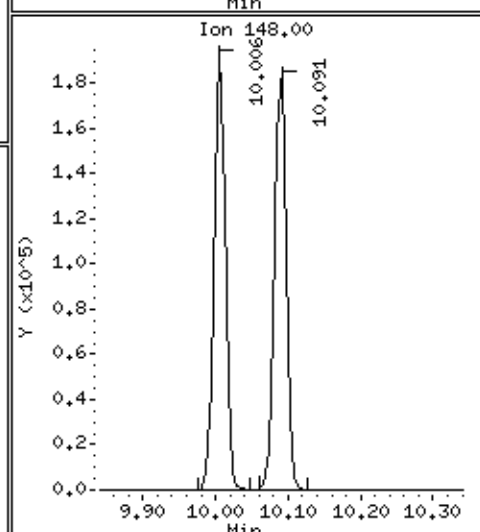
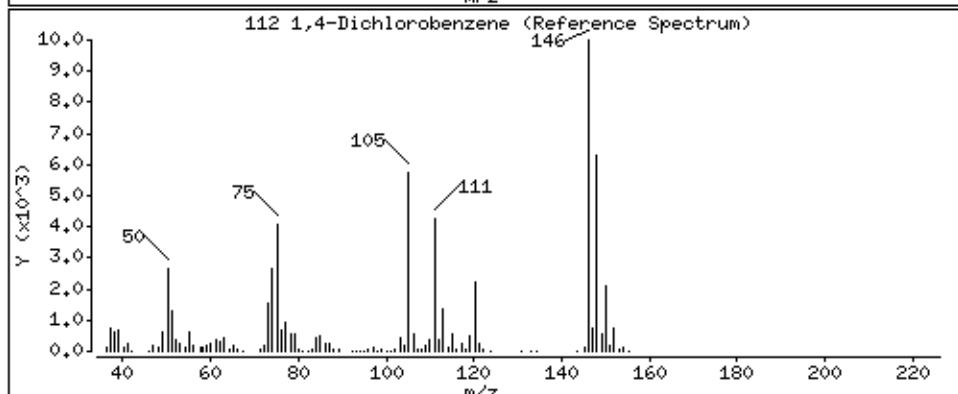
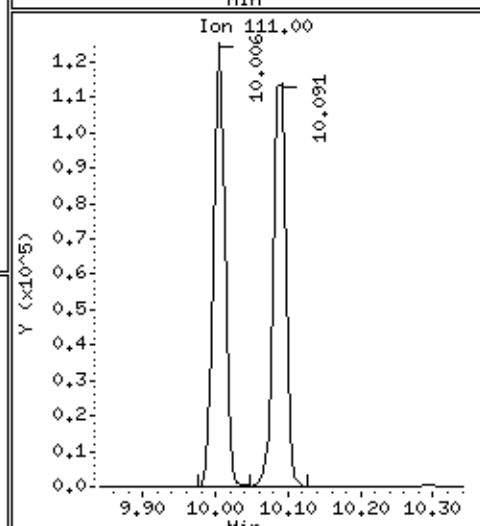
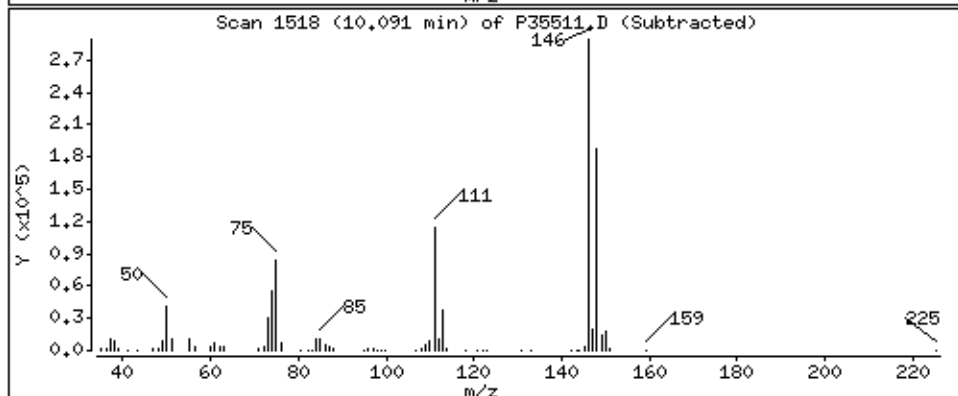
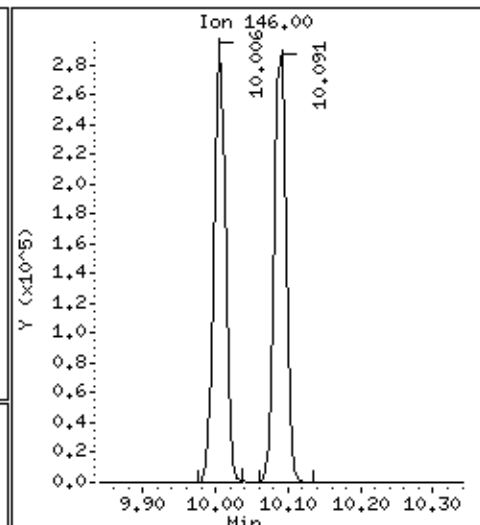
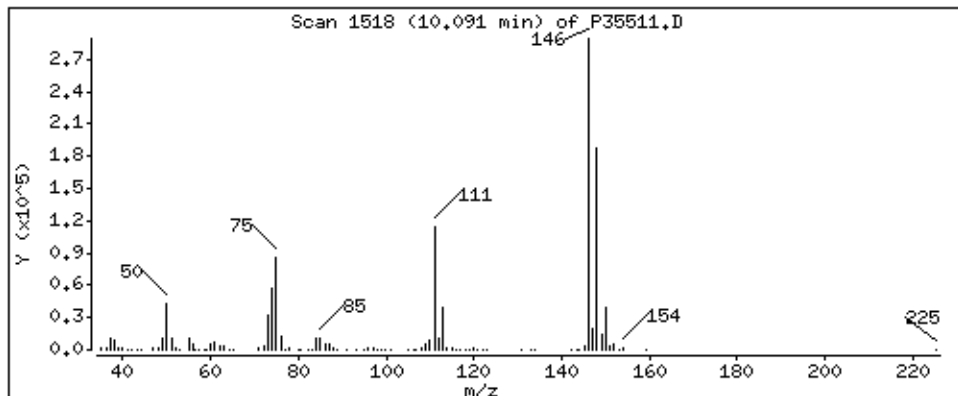
Column phase: RTX-624

Column diameter: 0,18

112 1,4-Dichlorobenzene

Concentration: 46,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

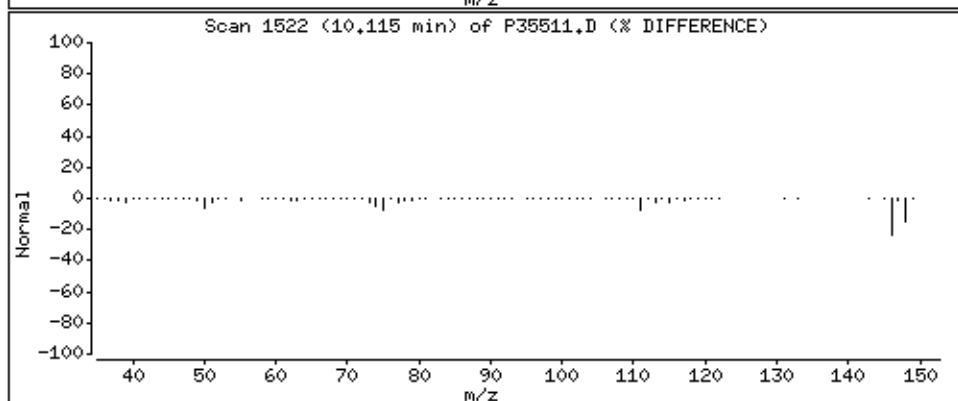
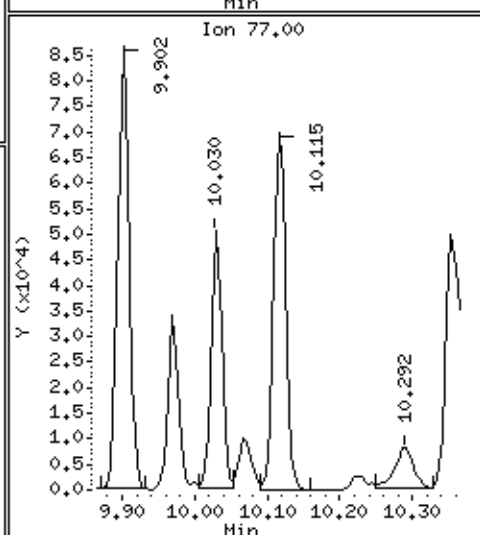
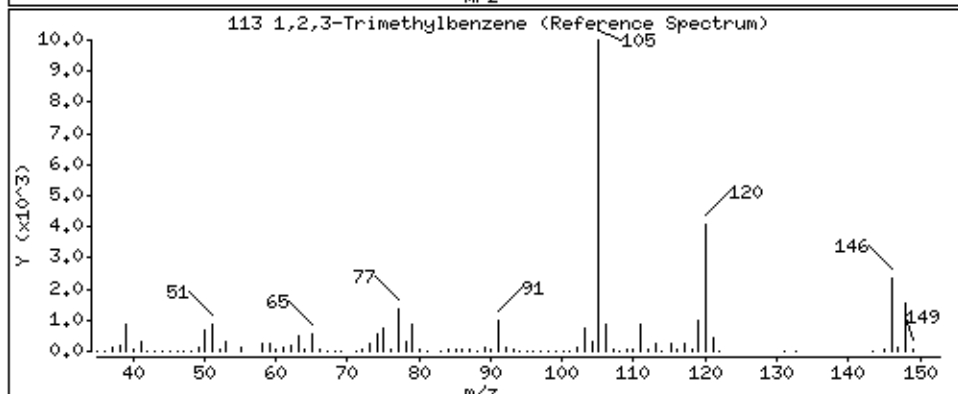
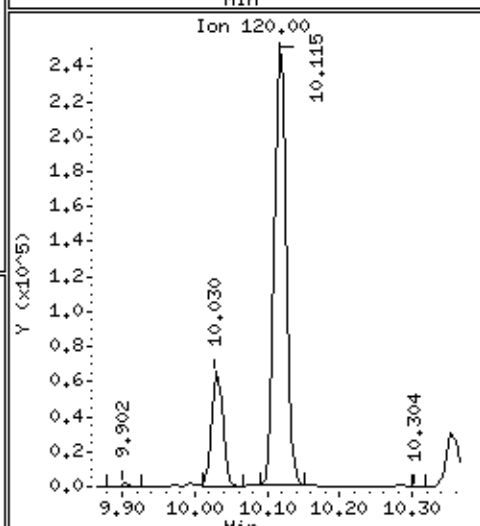
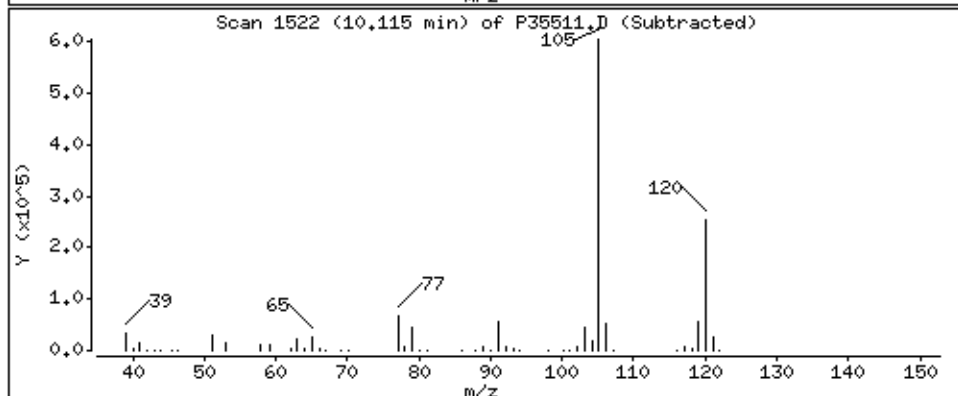
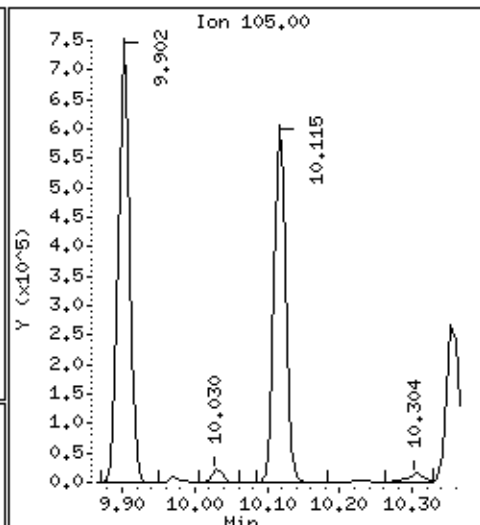
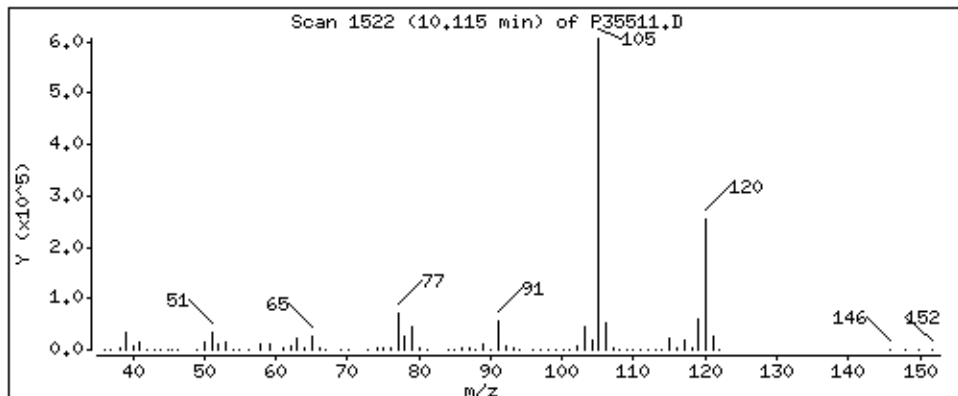
Column phase: RTX-624

Column diameter: 0.18

113 1,2,3-Trimethylbenzene

Concentration: 49.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

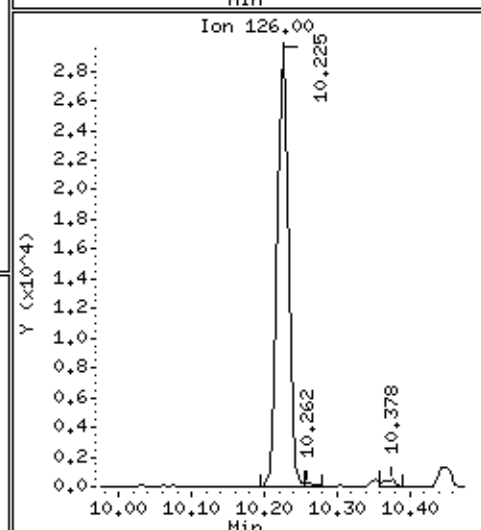
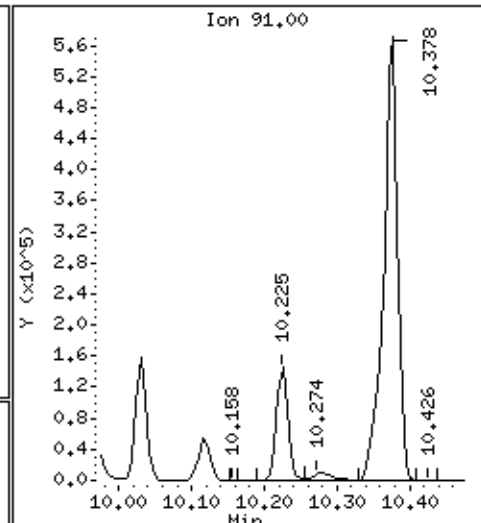
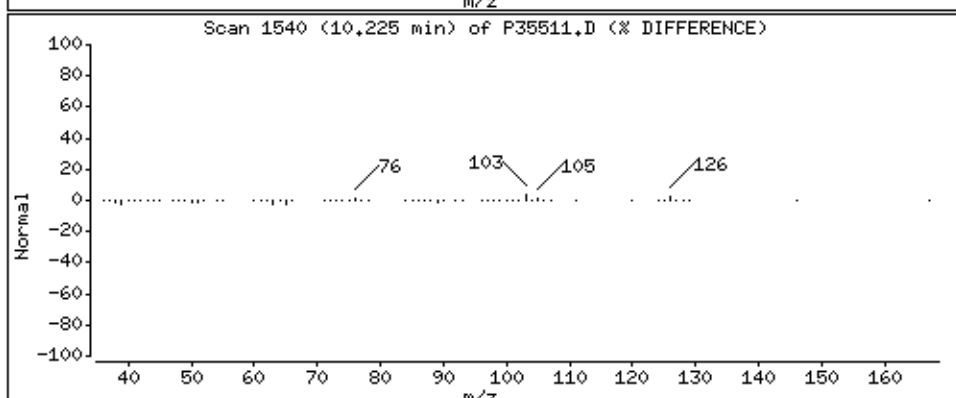
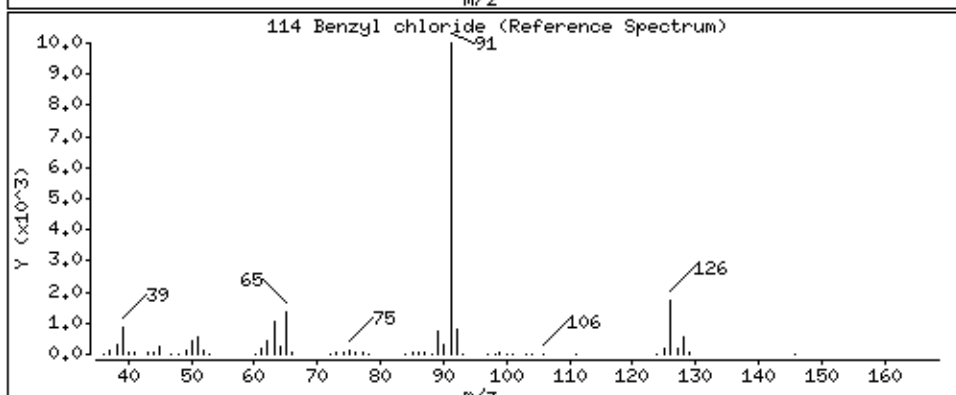
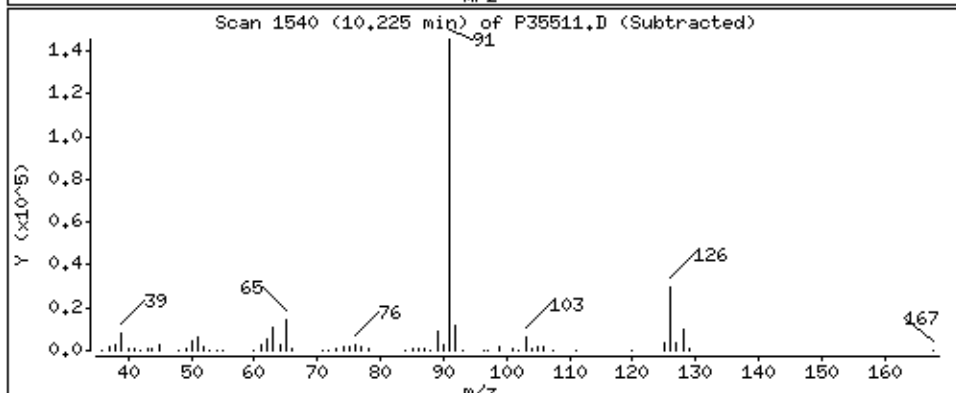
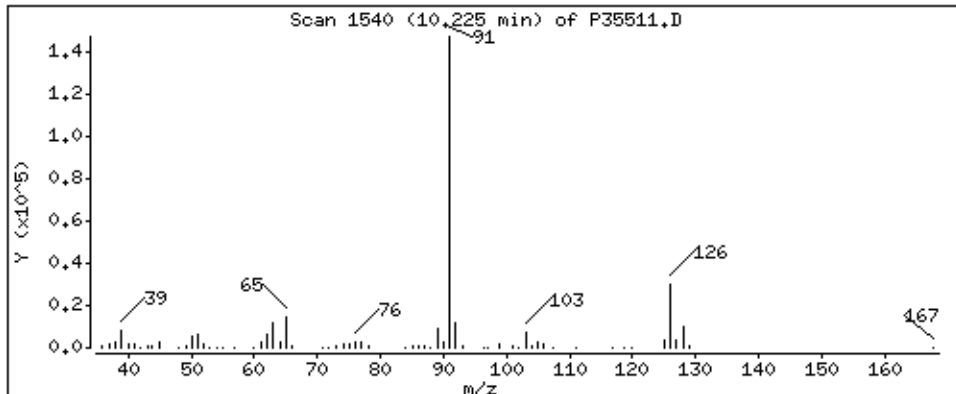
Column phase: RTX-624

Column diameter: 0,18

114 Benzyl chloride

Concentration: 34,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

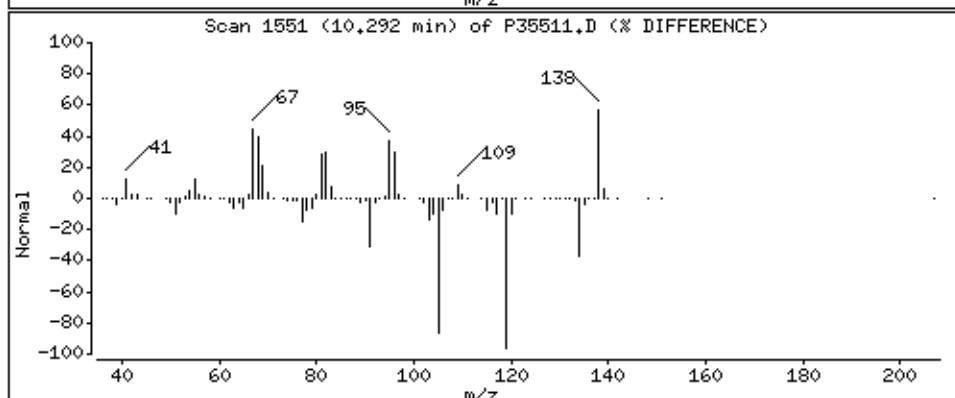
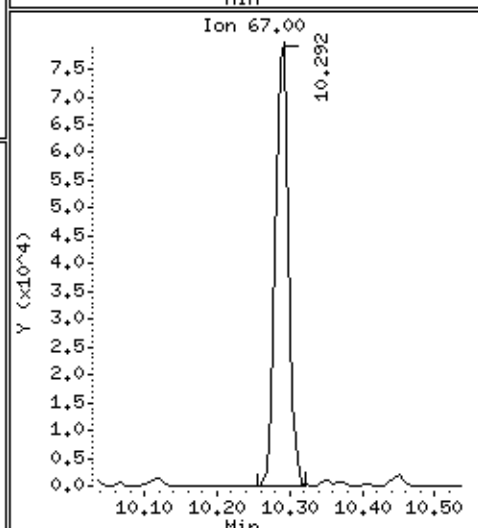
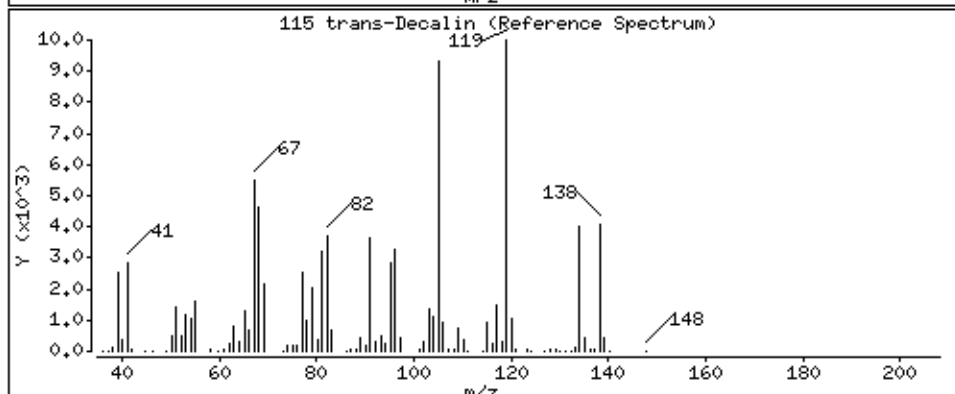
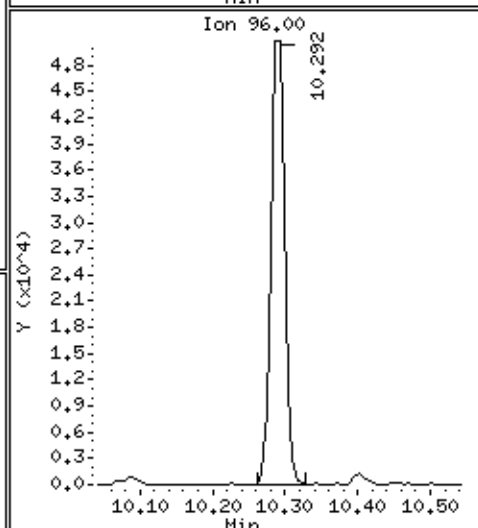
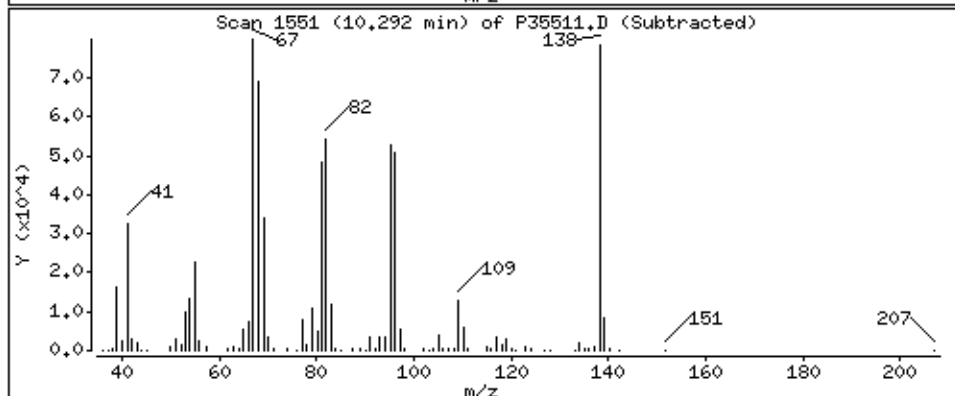
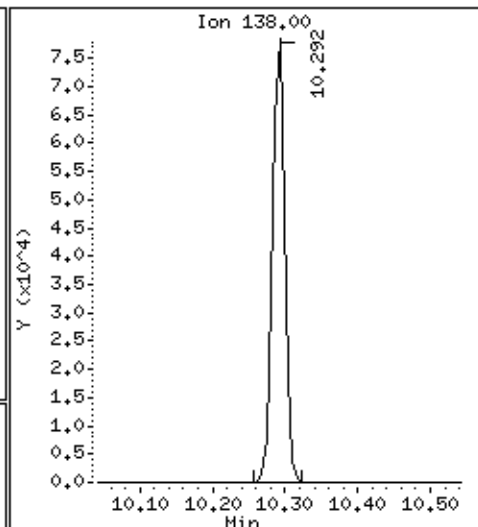
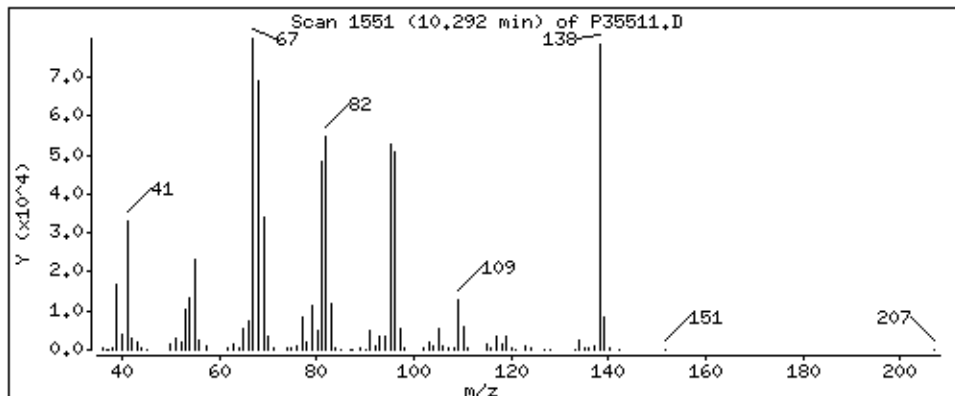
Column phase: RTX-624

Column diameter: 0,18

115 trans-Decalin

Concentration: 40,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

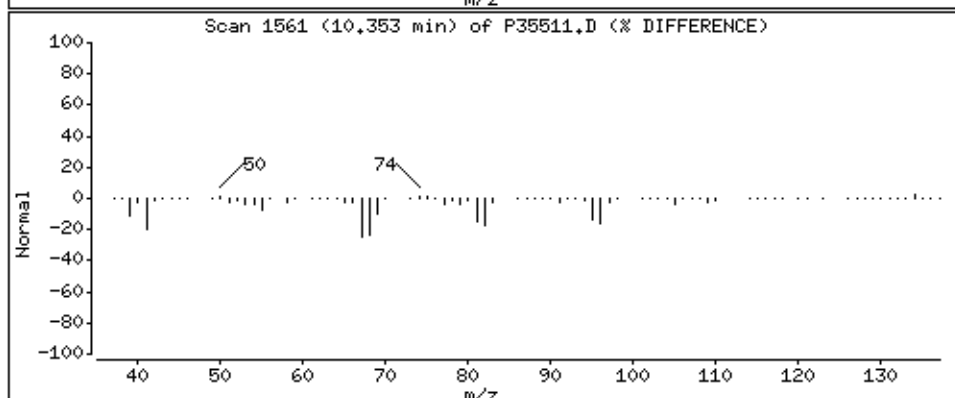
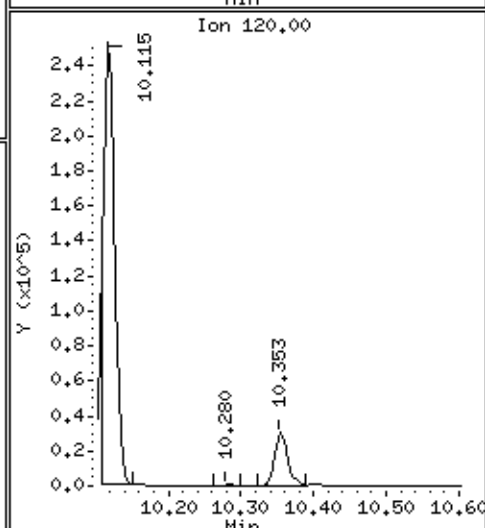
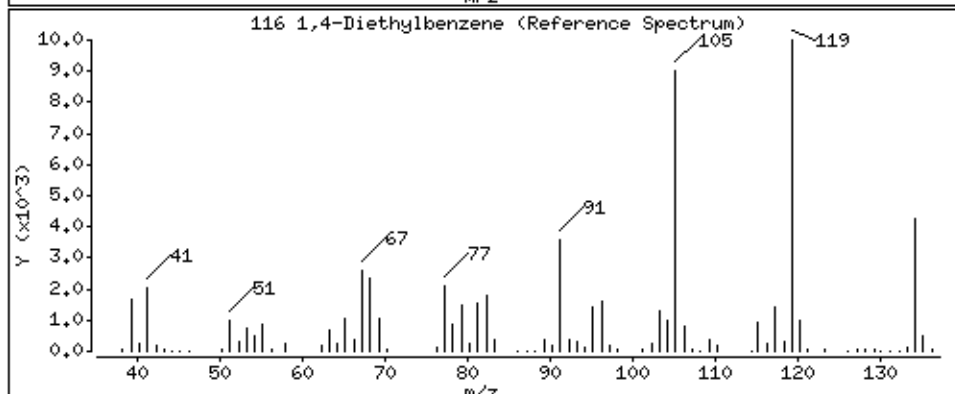
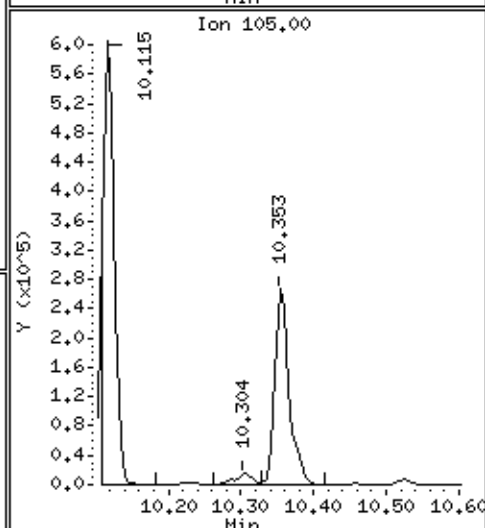
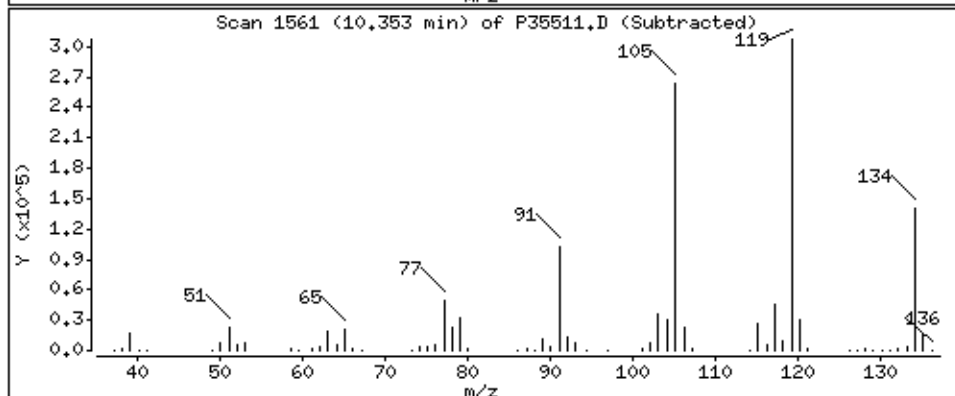
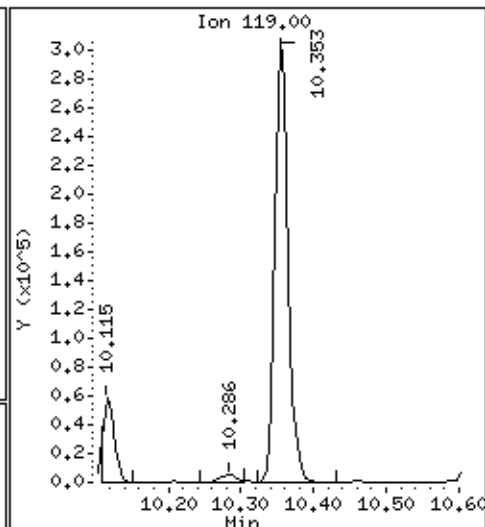
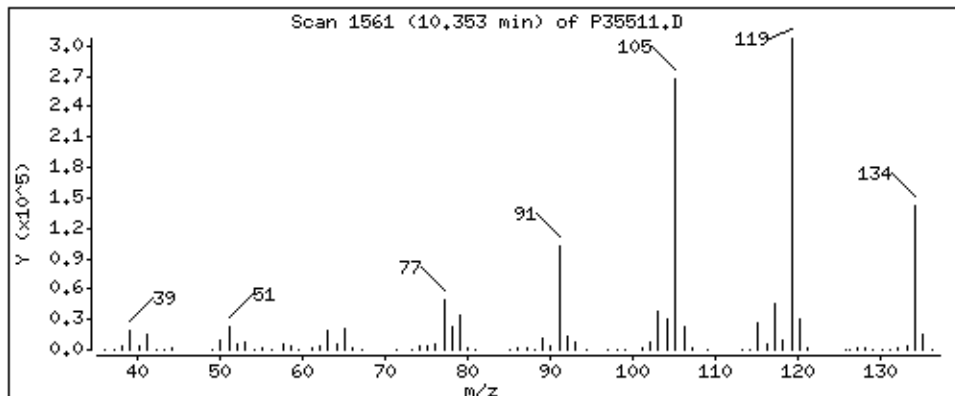
Column phase: RTX-624

Column diameter: 0.18

116 1,4-Diethylbenzene

Concentration: 47.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

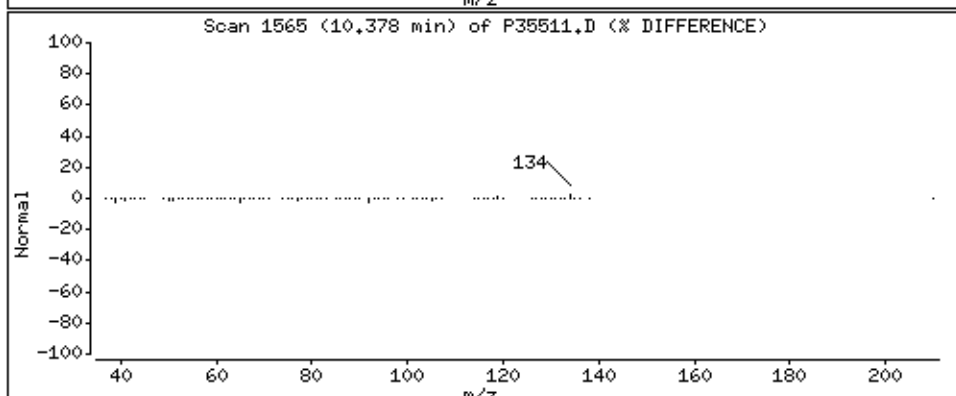
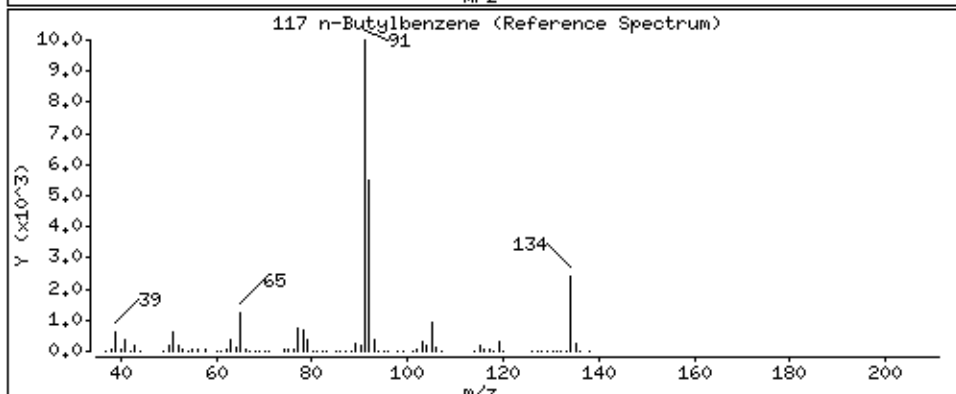
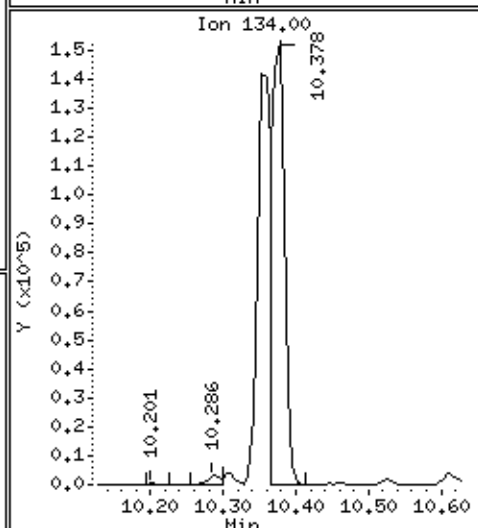
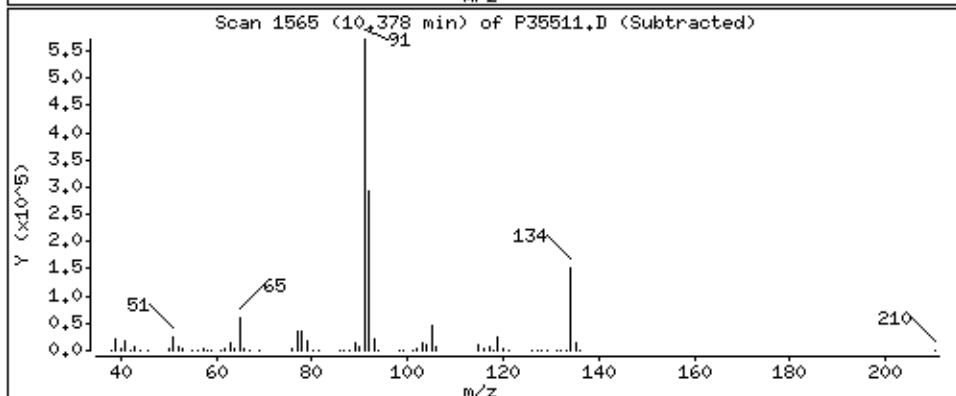
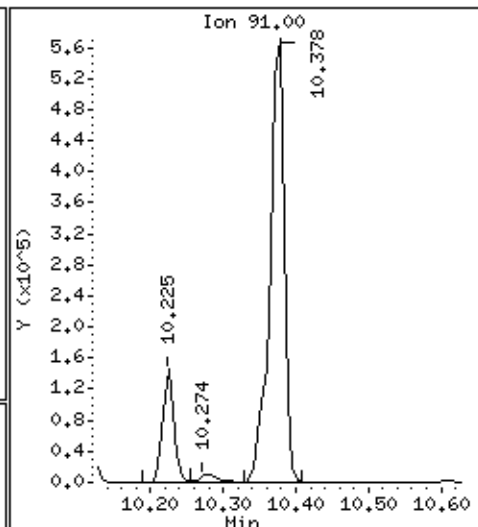
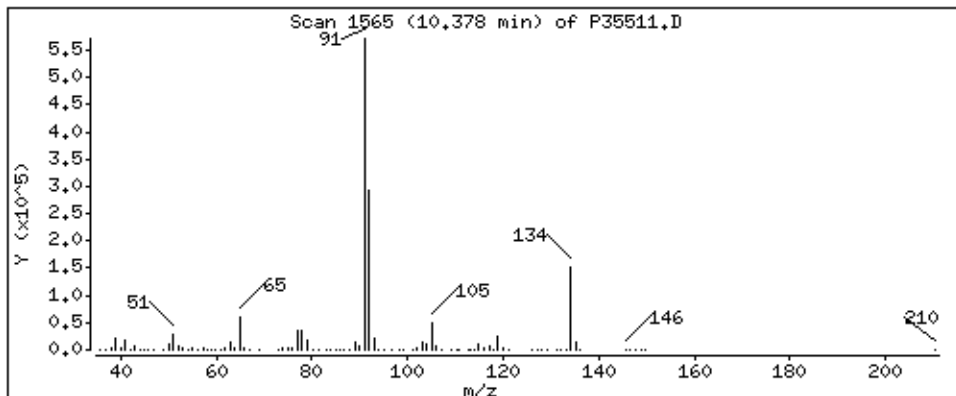
Column phase: RTX-624

Column diameter: 0,18

117 n-Butylbenzene

Concentration: 48,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1,25

Purge Volume: 5.0

Operator: KGG

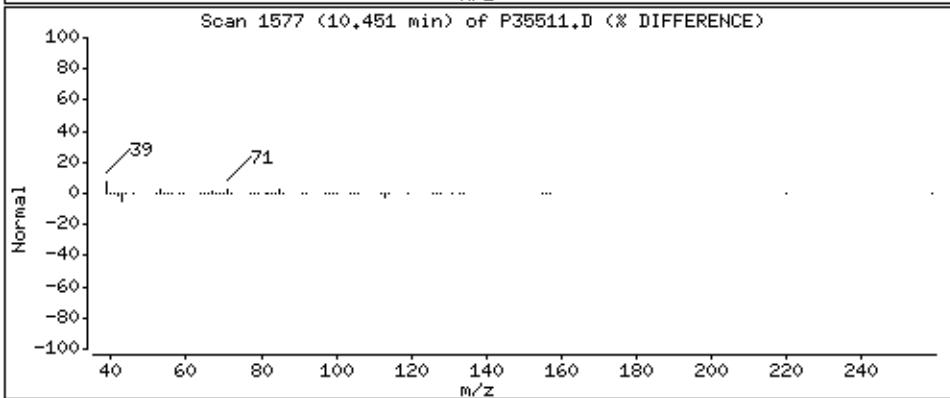
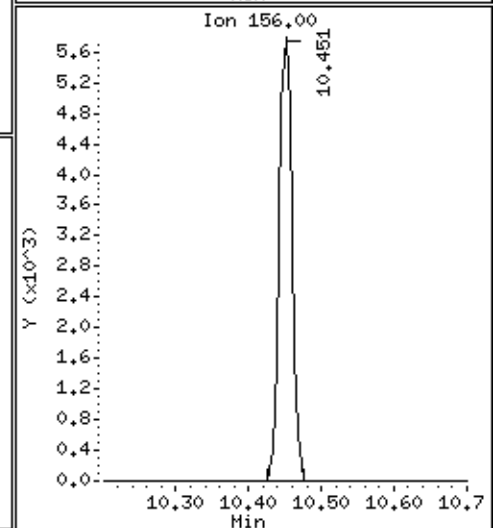
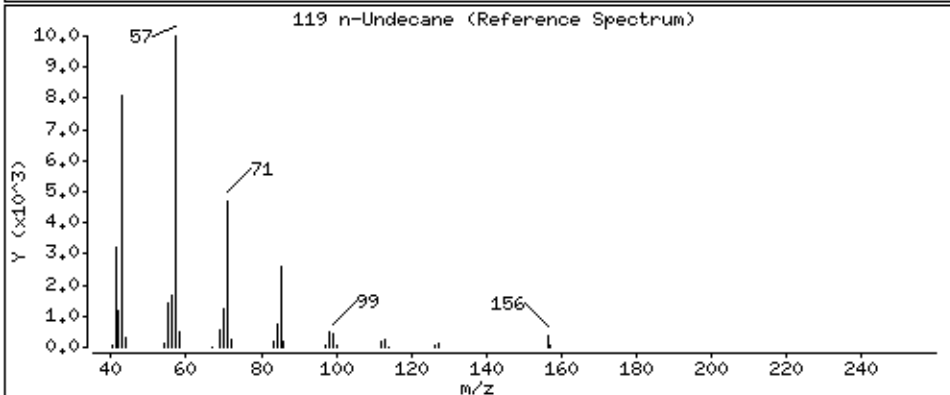
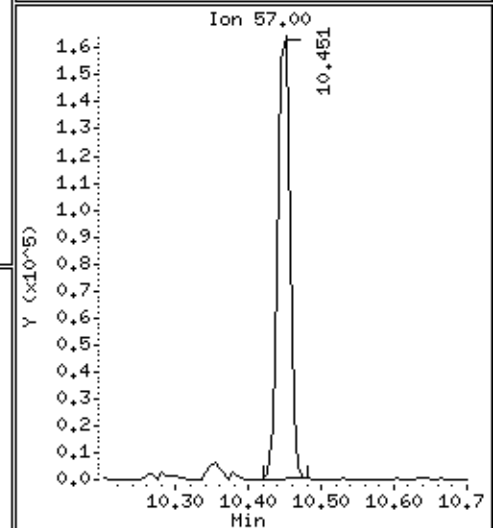
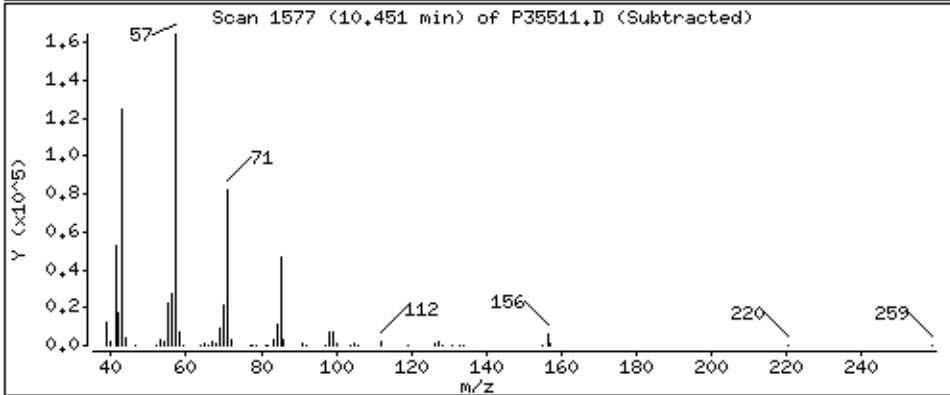
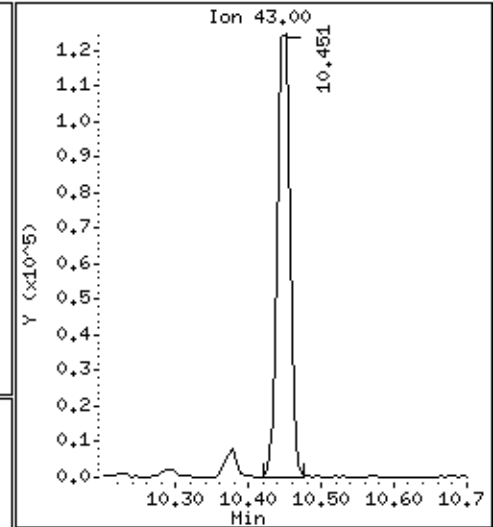
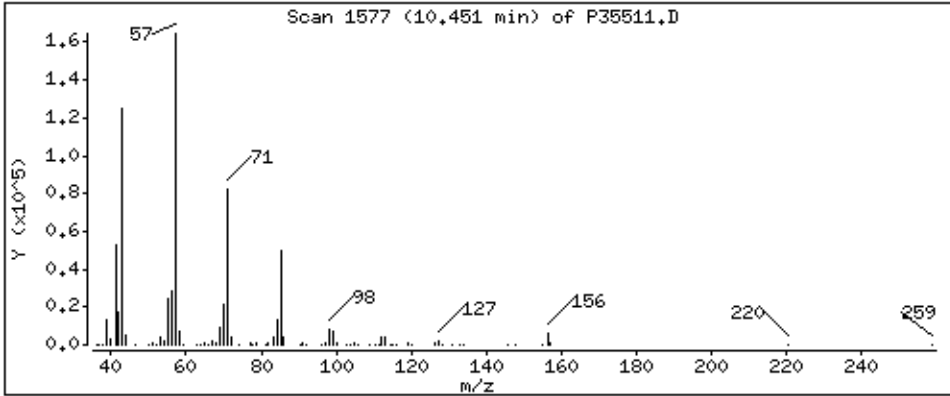
Column phase: RTX-624

Column diameter: 0,18

119 n-Undecane

Concentration: 98,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

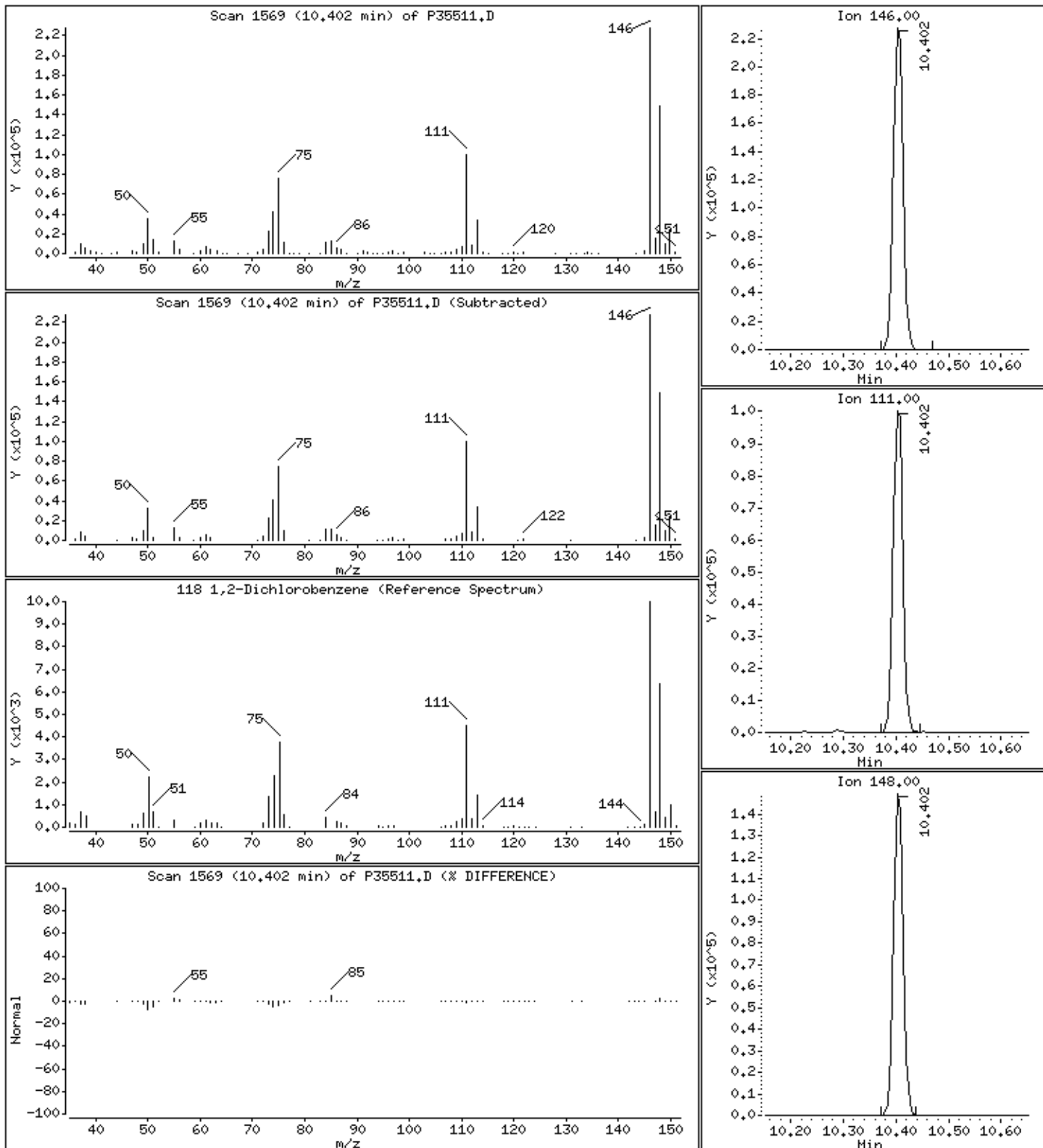
Column phase: RTX-624

Column diameter: 0,18

118 1,2-Dichlorobenzene

Concentration: 46,5 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

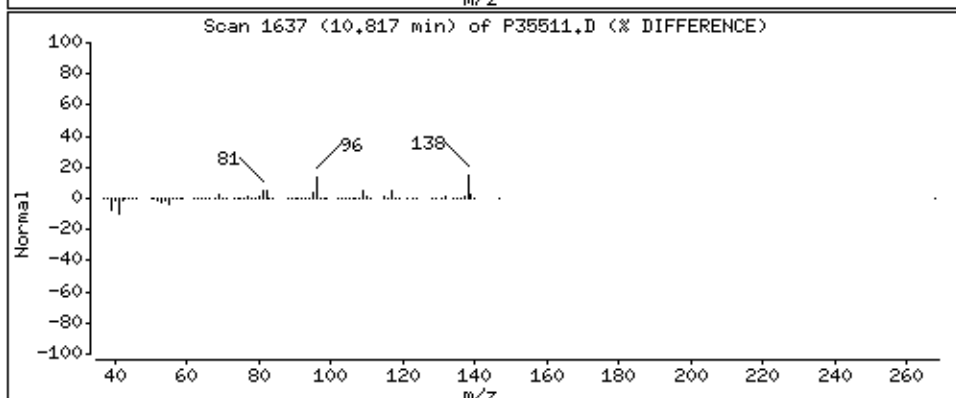
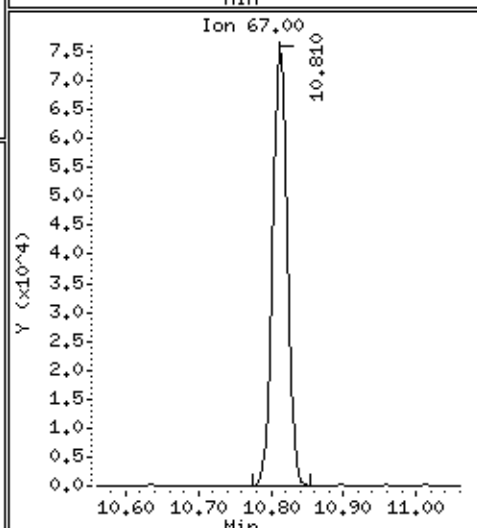
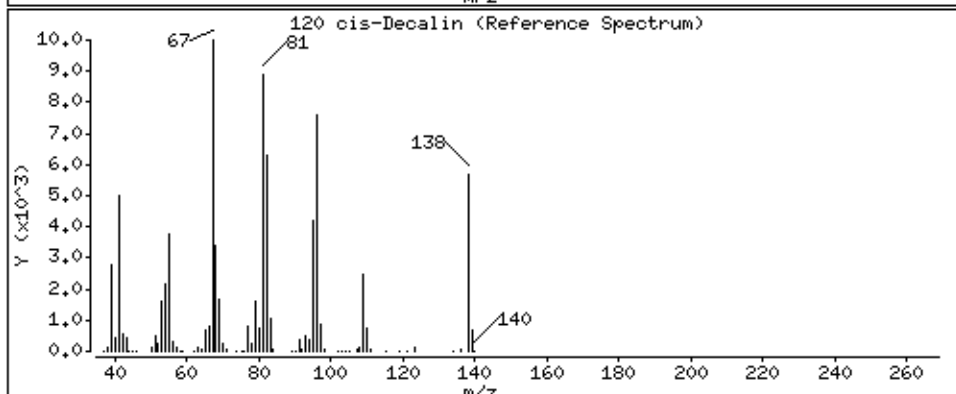
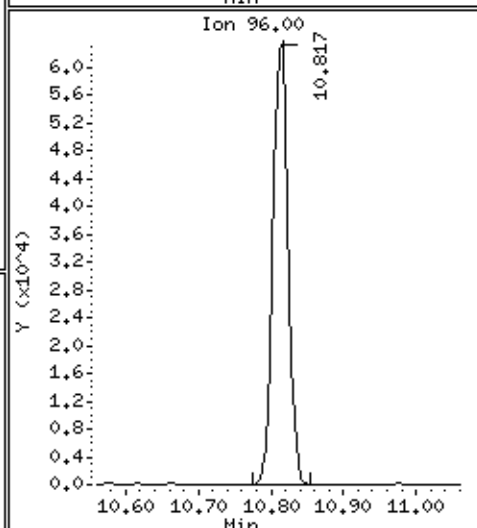
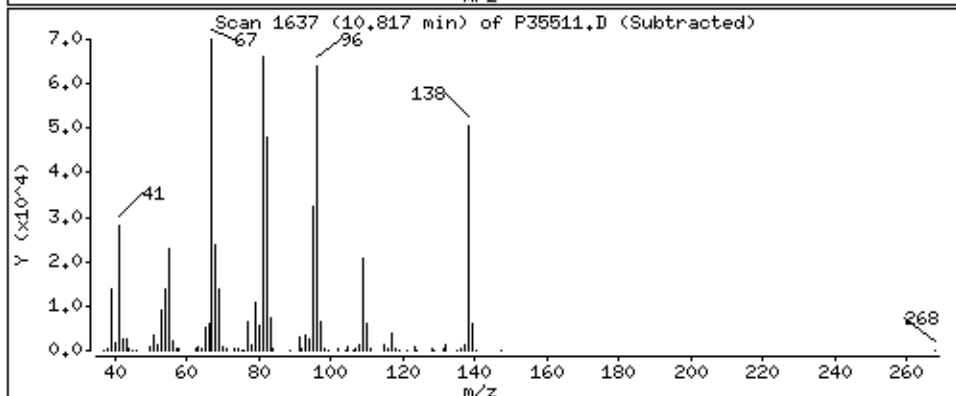
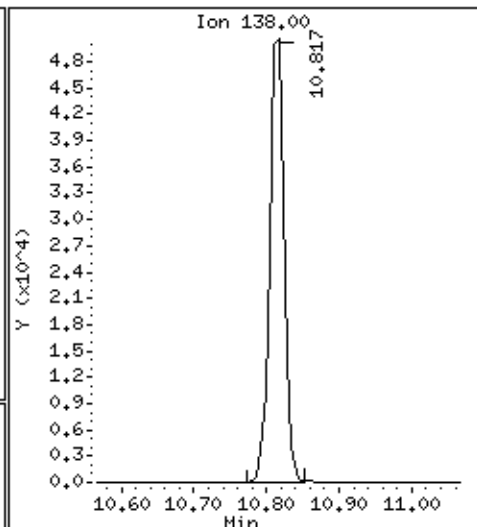
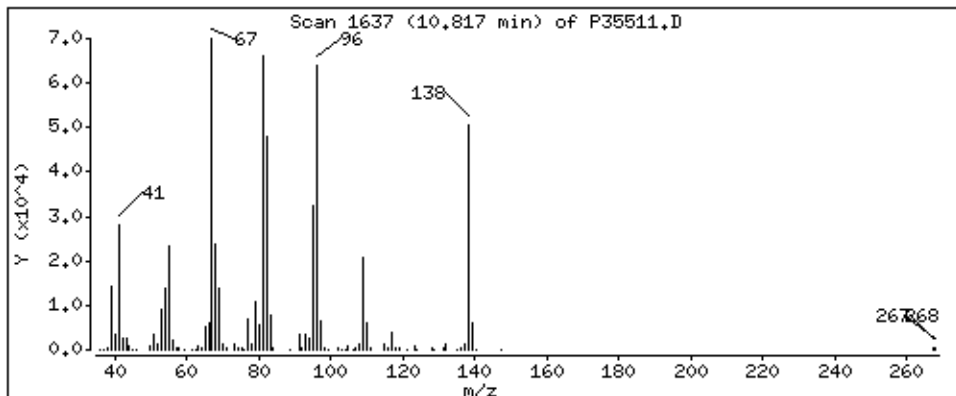
Column phase: RTX-624

Column diameter: 0,18

120 cis-Decalin

Concentration: 40,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1.25

Purge Volume: 5.0

Operator: KGG

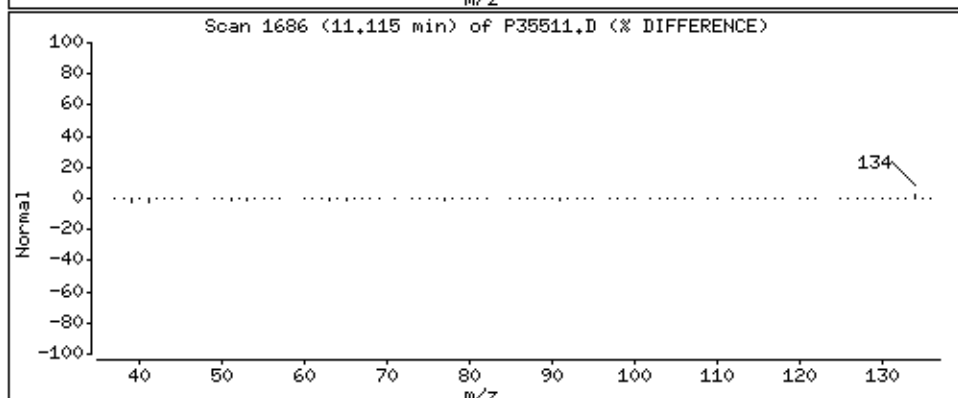
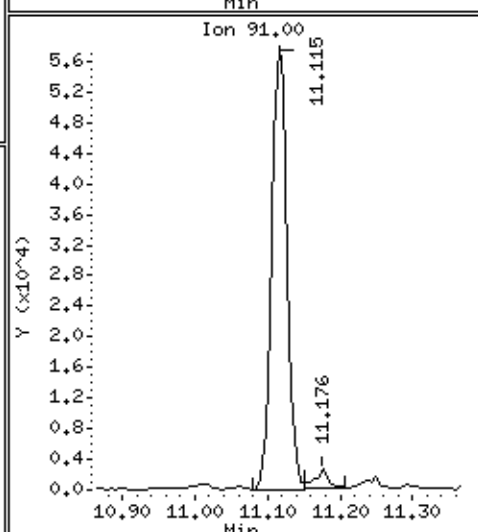
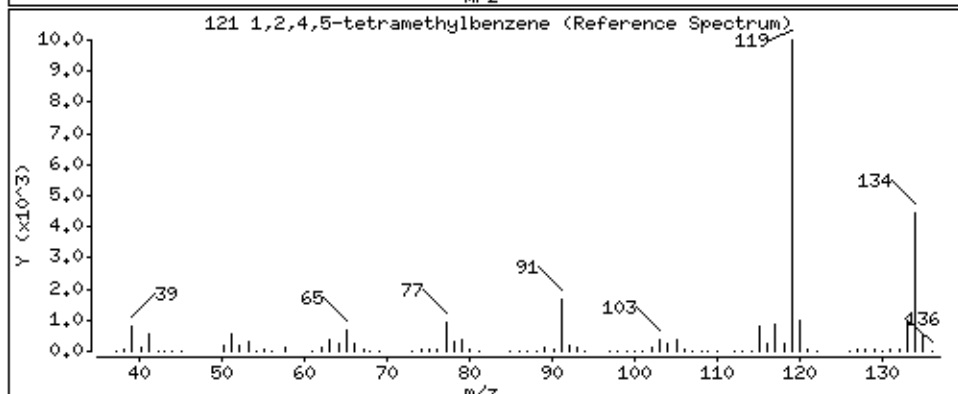
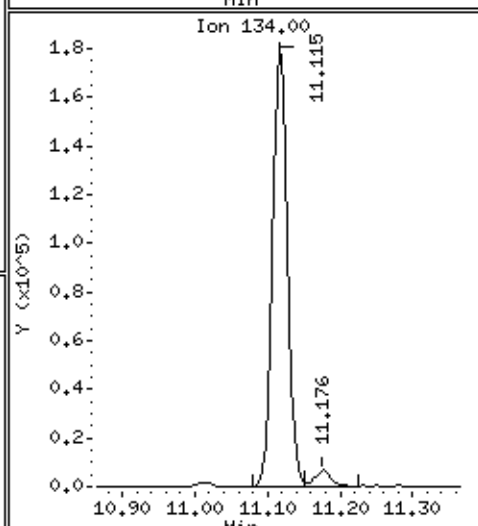
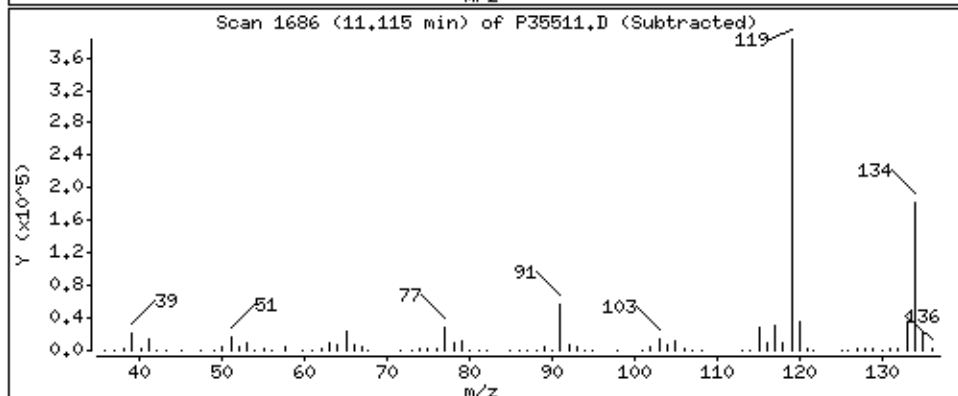
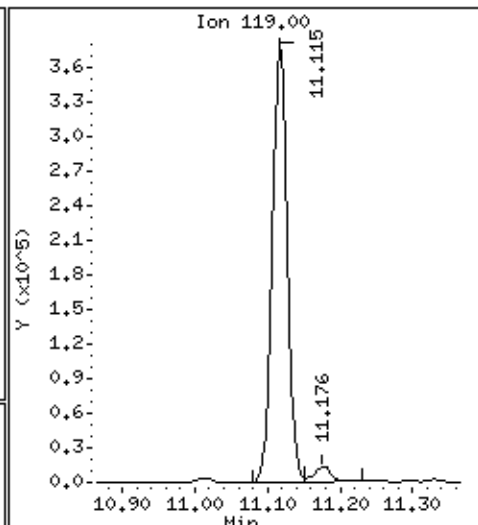
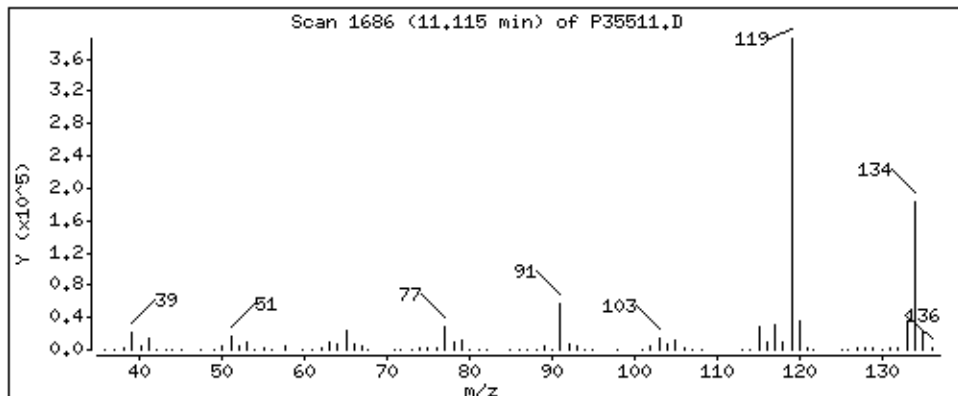
Column phase: RTX-624

Column diameter: 0.18

121 1,2,4,5-tetramethylbenzene

Concentration: 48.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

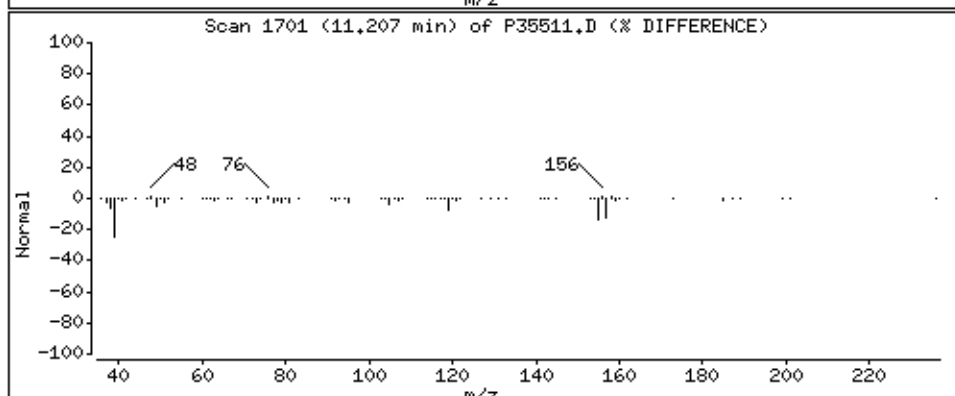
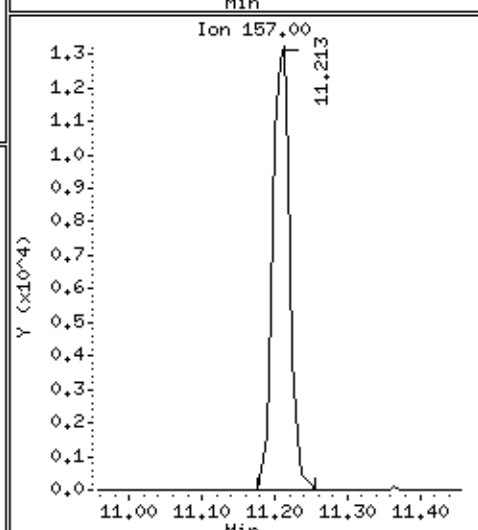
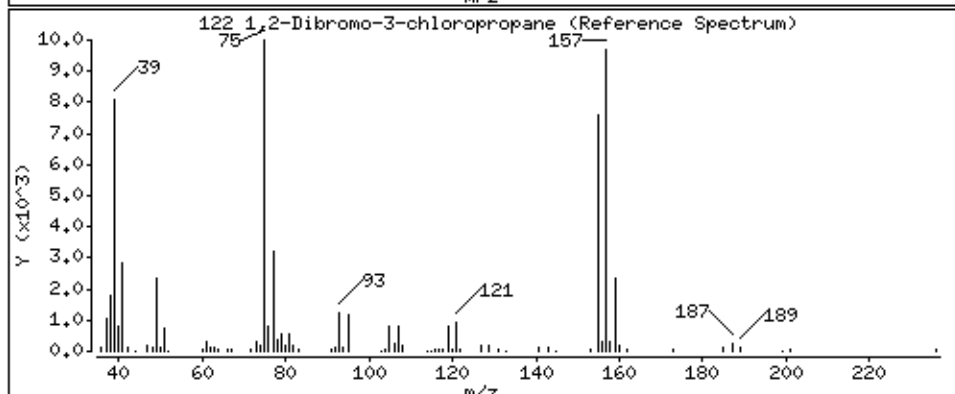
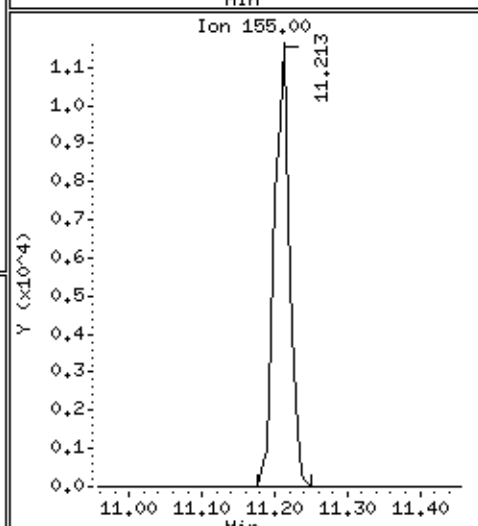
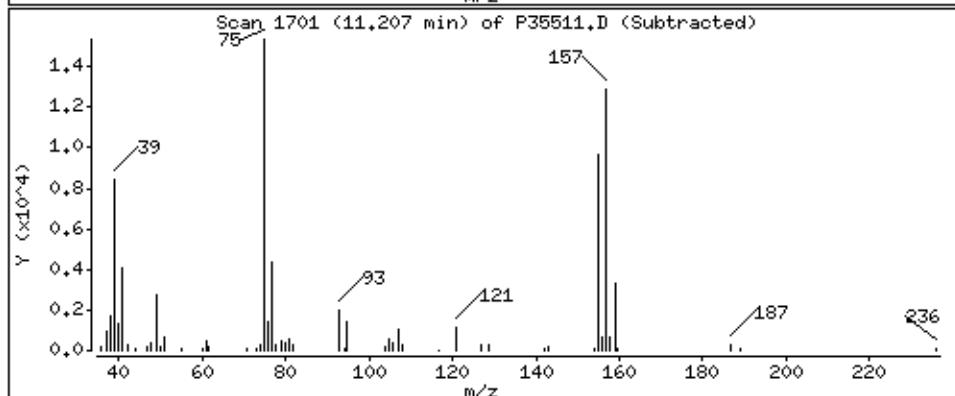
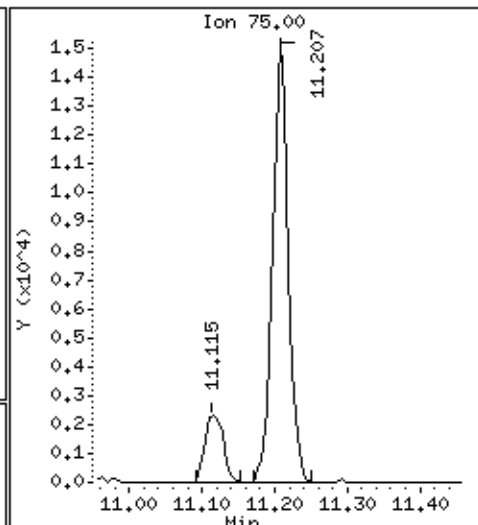
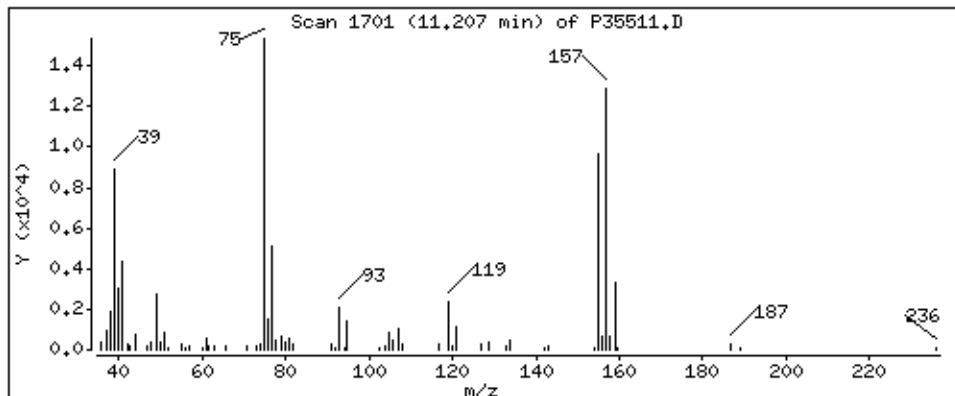
Column phase: RTX-624

Column diameter: 0.18

122 1,2-Dibromo-3-chloropropane

Concentration: 45.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

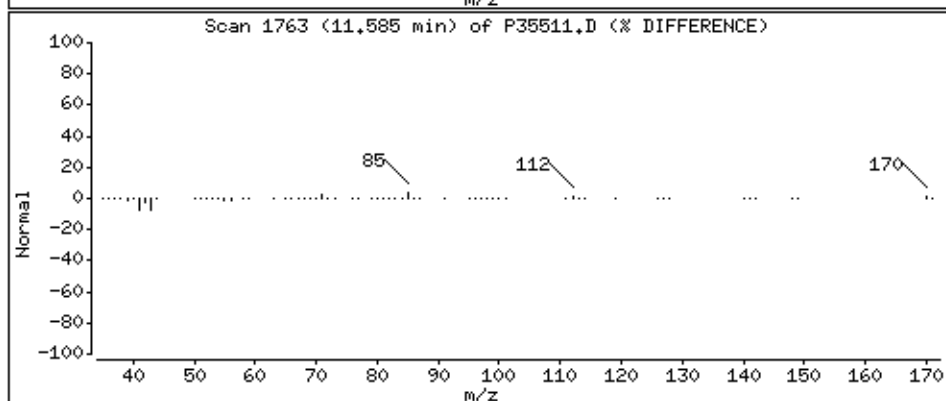
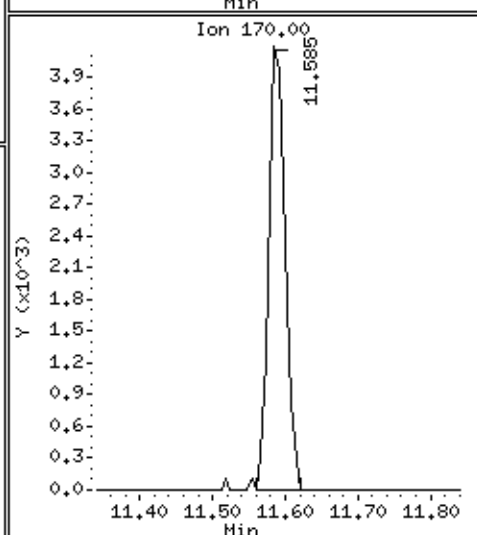
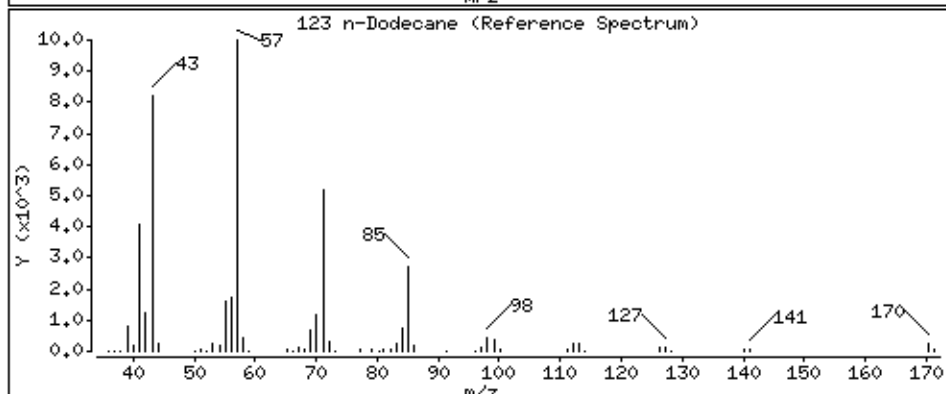
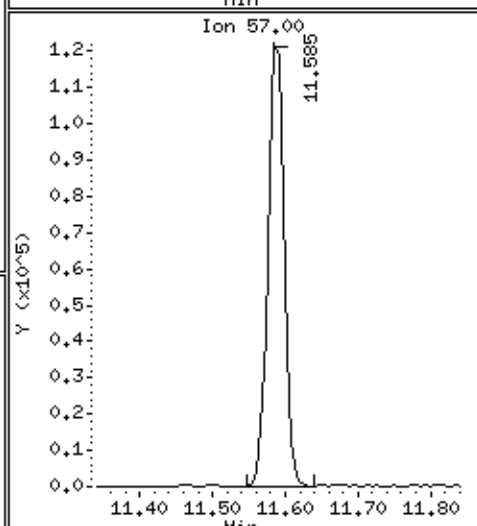
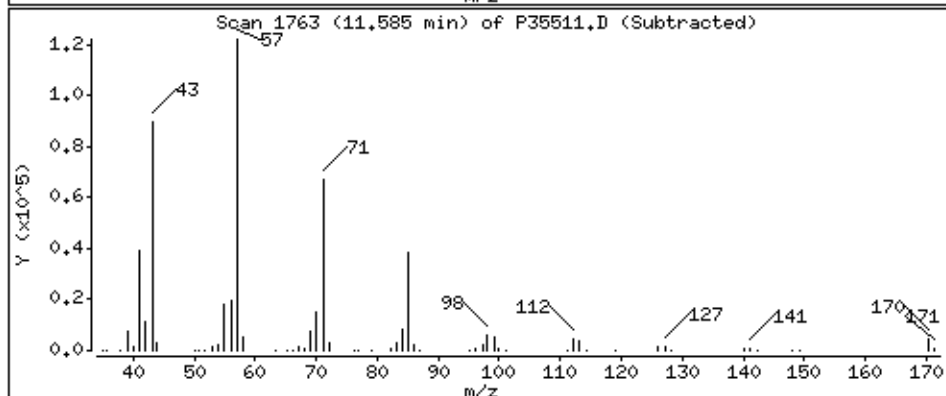
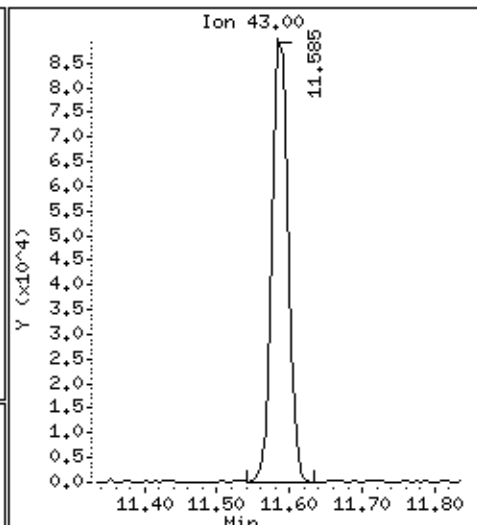
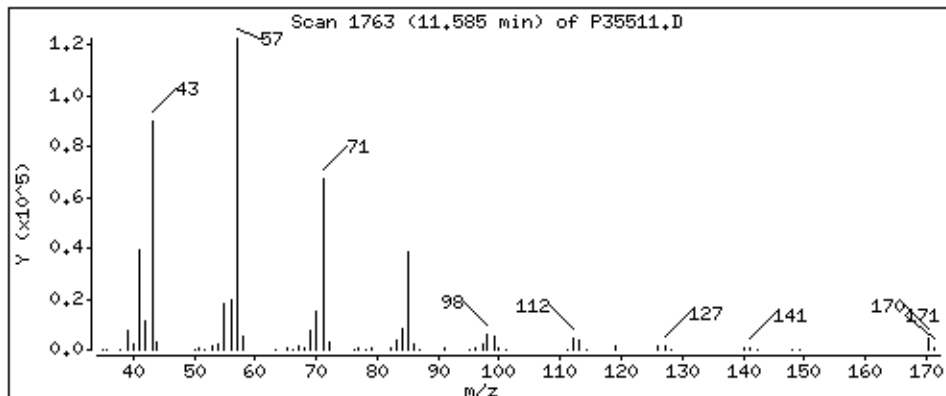
Column phase: RTX-624

Column diameter: 0,18

123 n-Dodecane

Concentration: 217 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

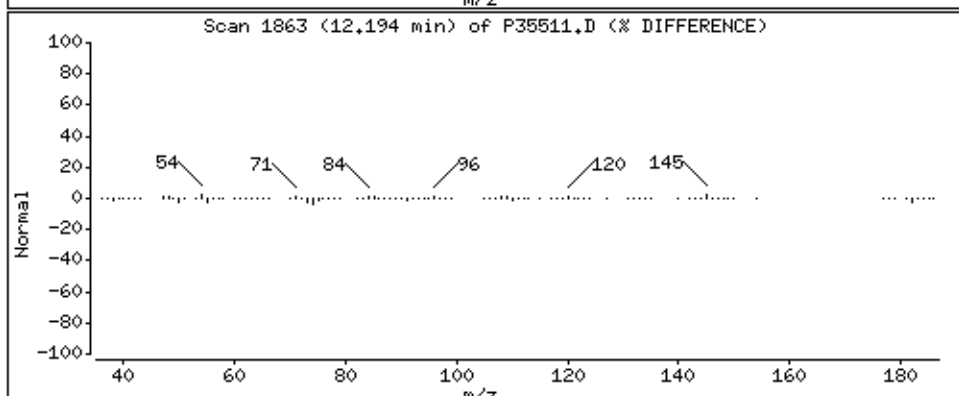
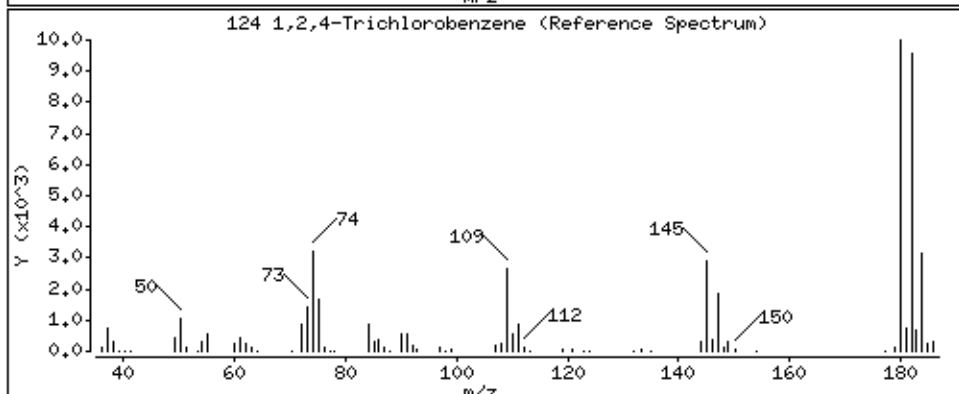
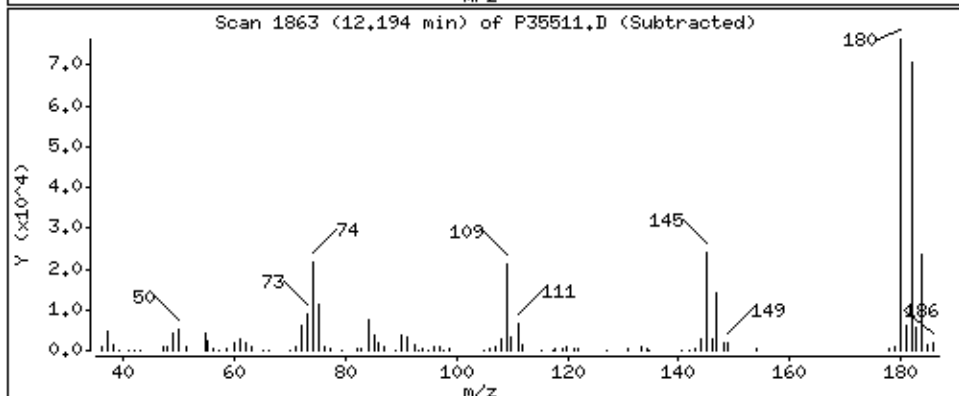
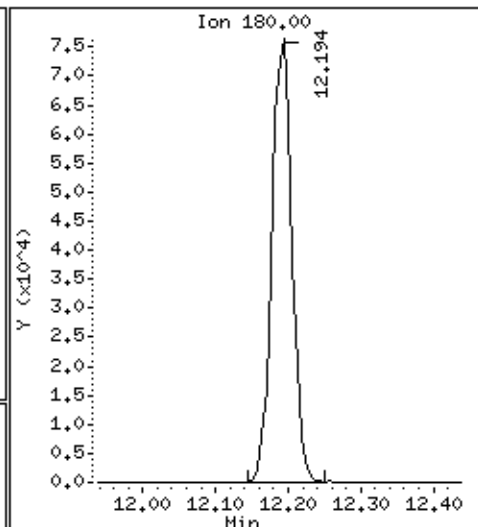
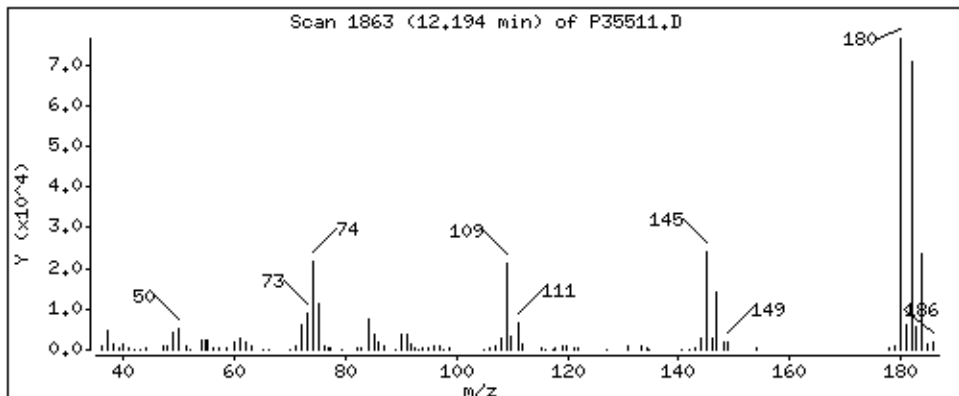
Column phase: RTX-624

Column diameter: 0,18

124 1,2,4-Trichlorobenzene

Concentration: 46,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

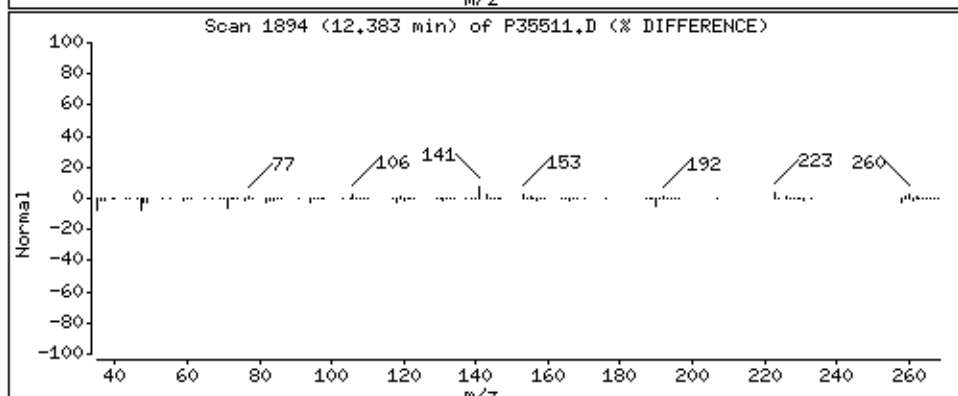
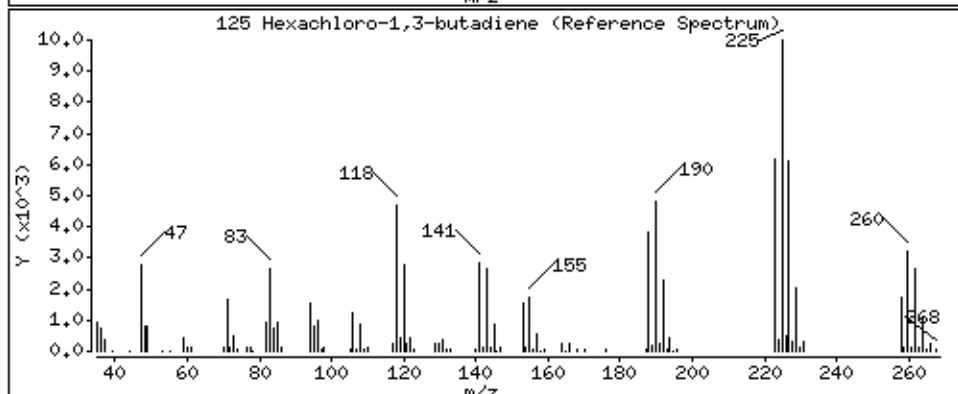
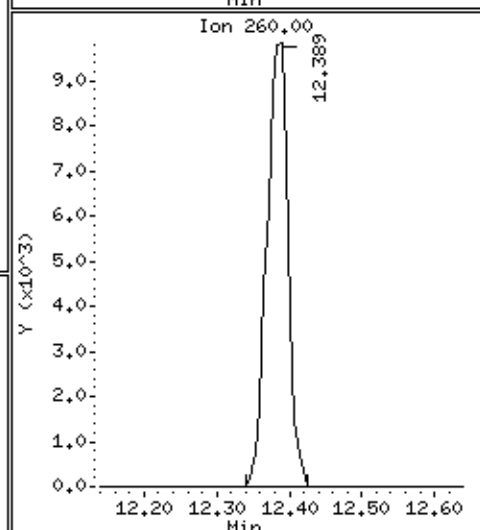
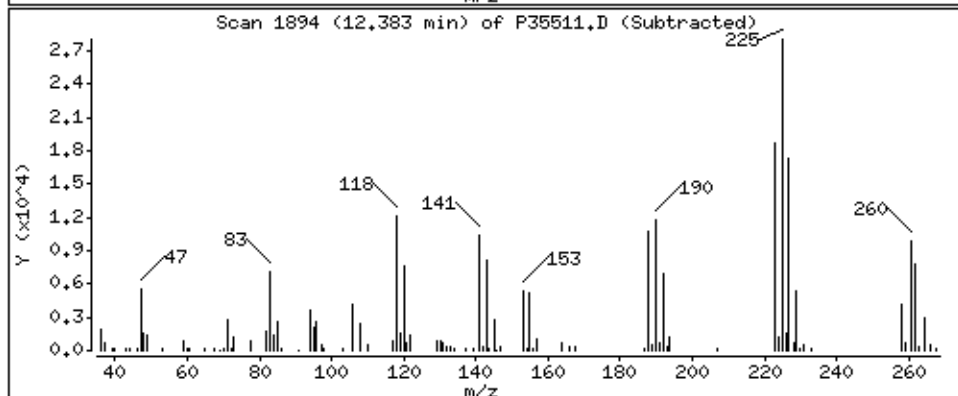
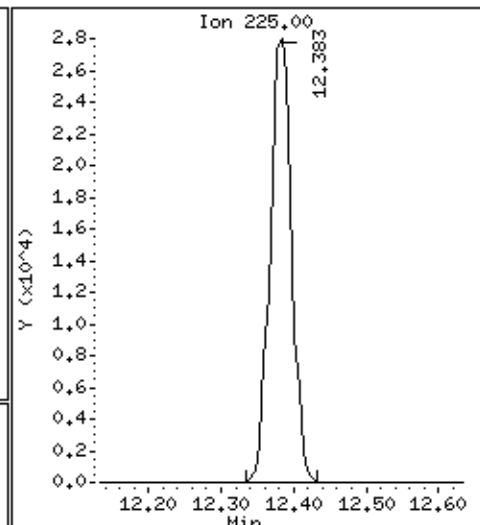
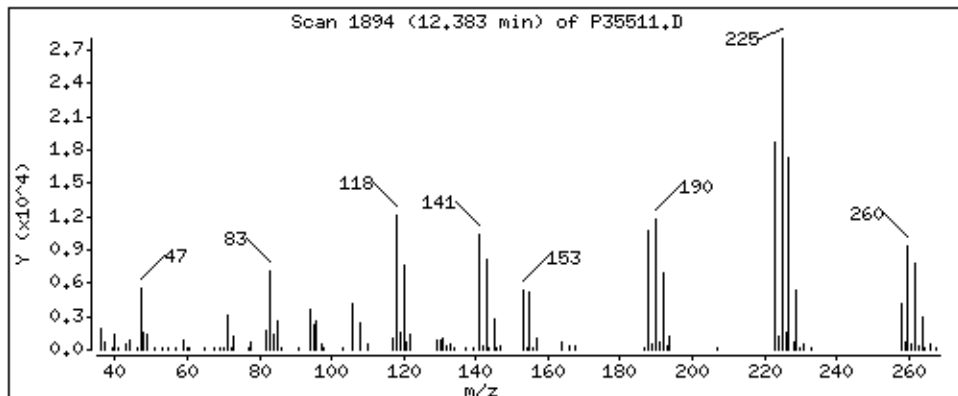
Column phase: RTX-624

Column diameter: 0,18

125 Hexachloro-1,3-butadiene

Concentration: 38,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466;1,25

Purge Volume: 5.0

Operator: KGG

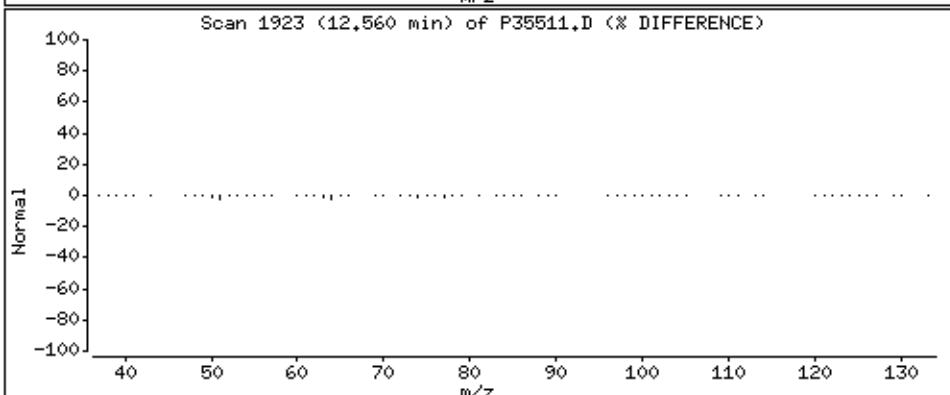
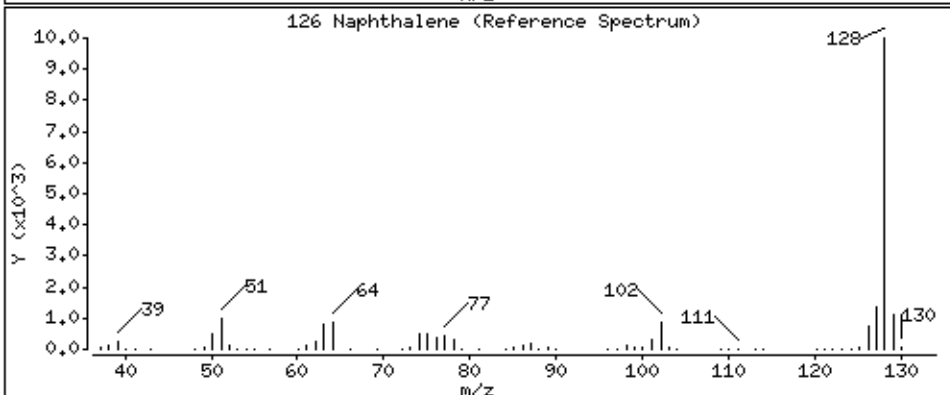
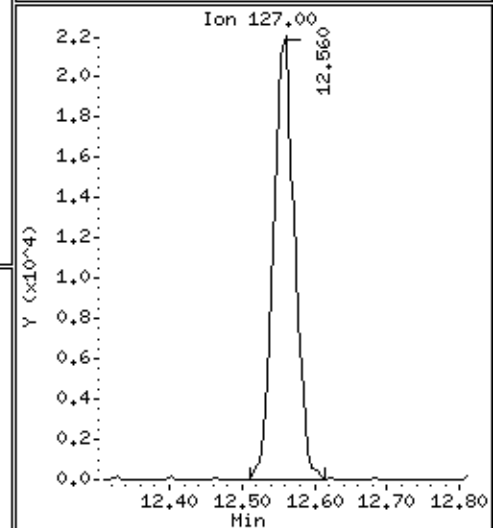
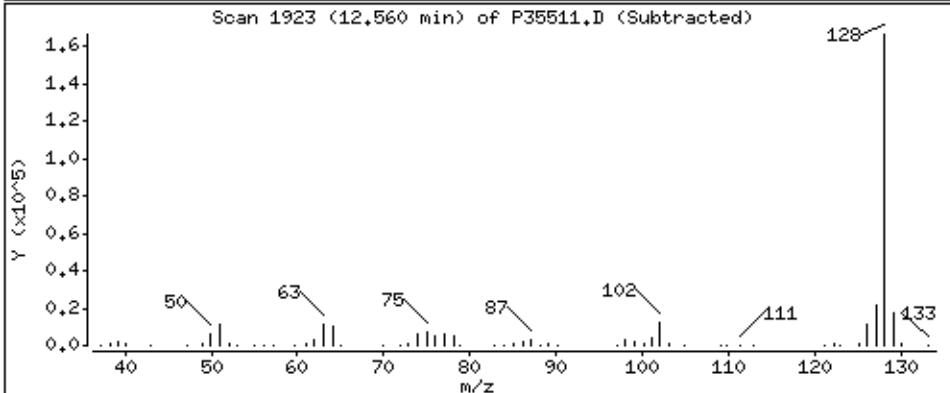
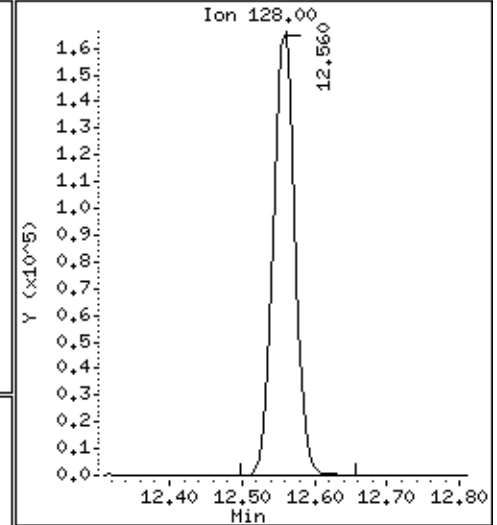
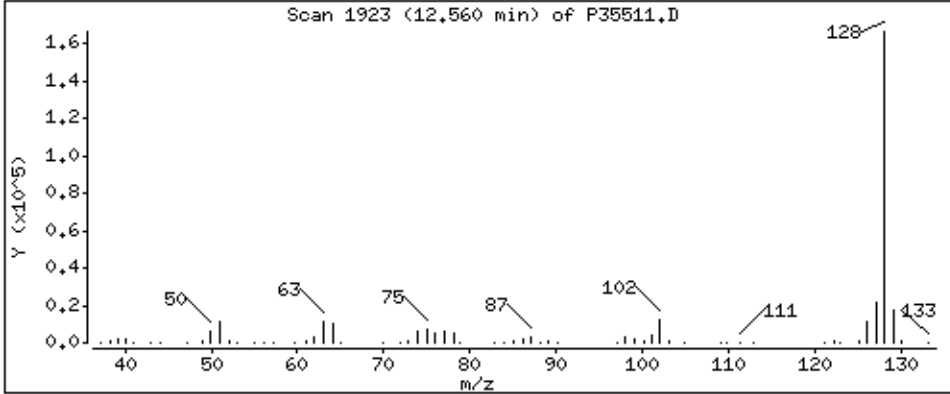
Column phase: RTX-624

Column diameter: 0,18

126 Naphthalene

Concentration: 48,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35511.D

Date : 20-OCT-2021 15:09

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv8.i

Sample Info: 1160403, 120466:1.25

Purge Volume: 5.0

Operator: KGG

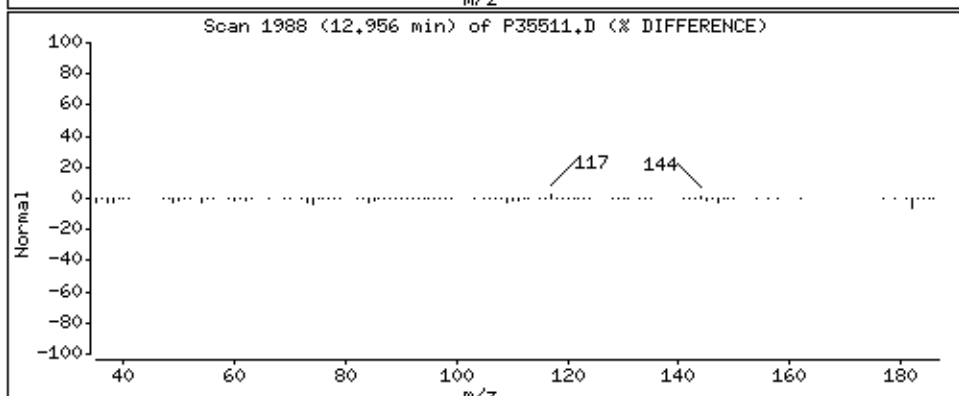
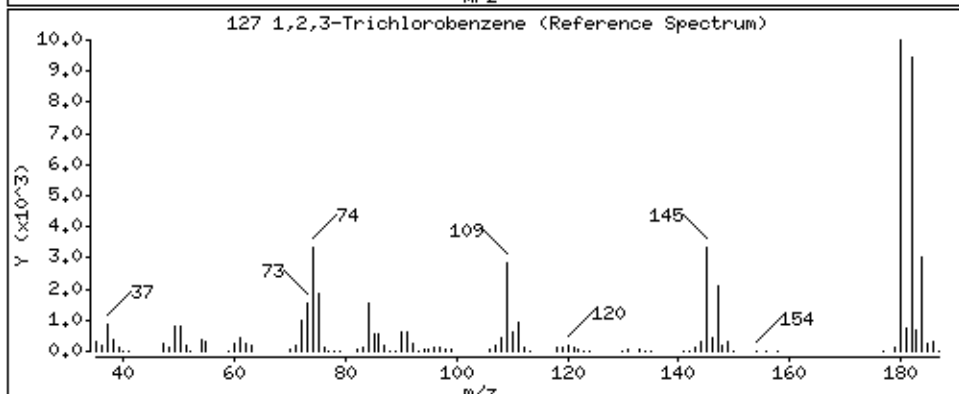
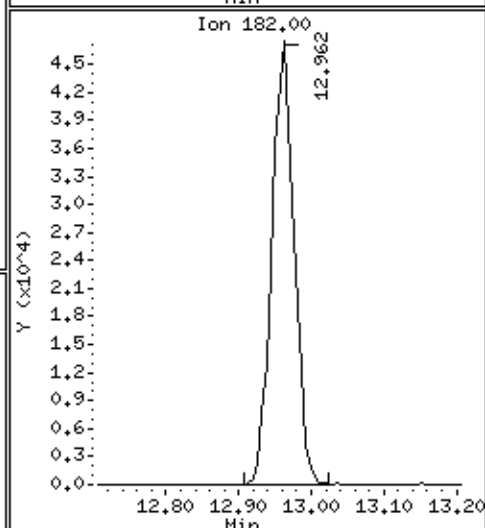
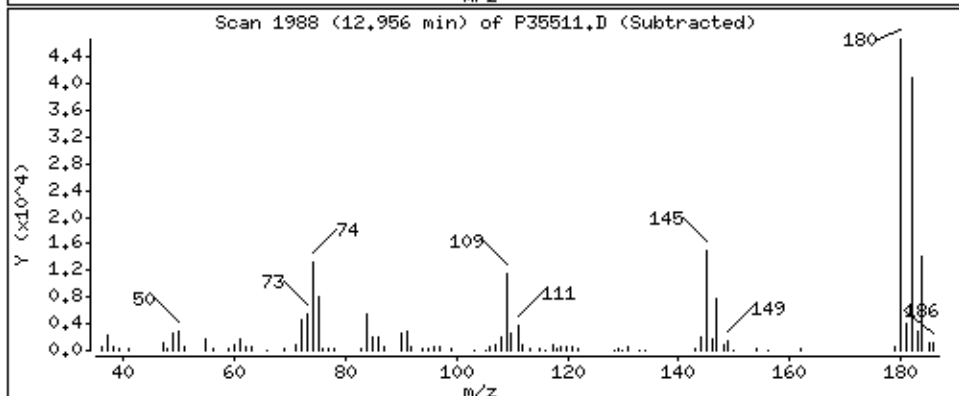
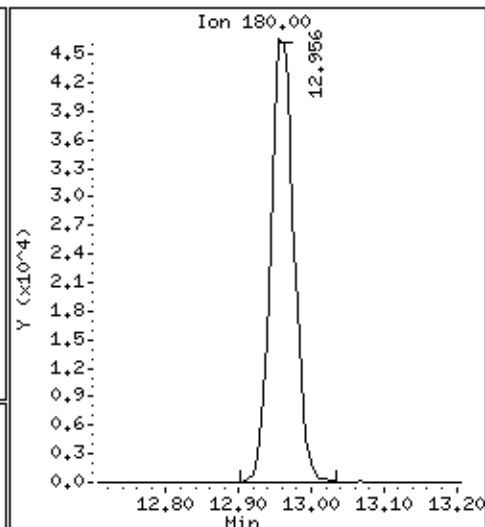
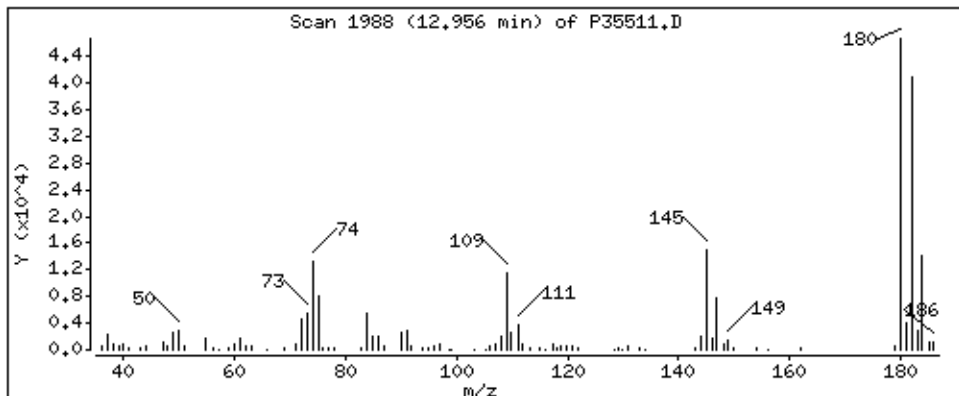
Column phase: RTX-624

Column diameter: 0,18

127 1,2,3-Trichlorobenzene

Concentration: 43,0 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35511.D

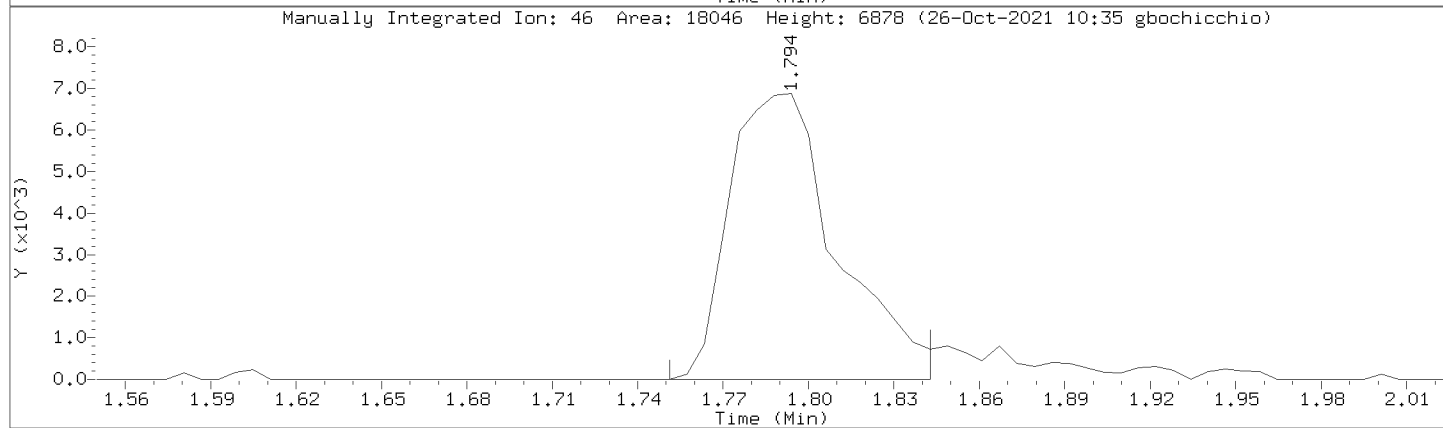
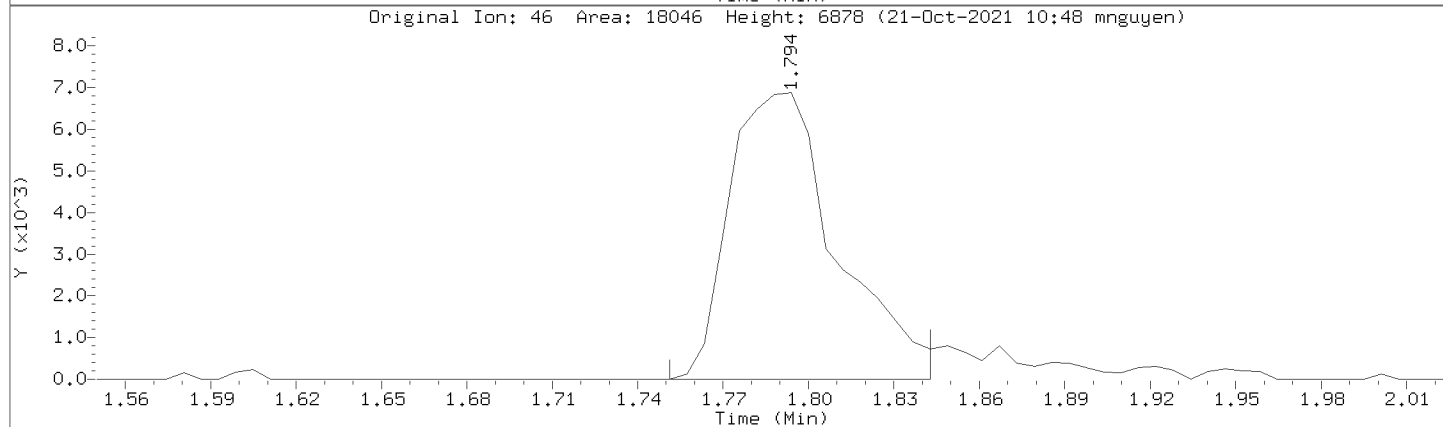
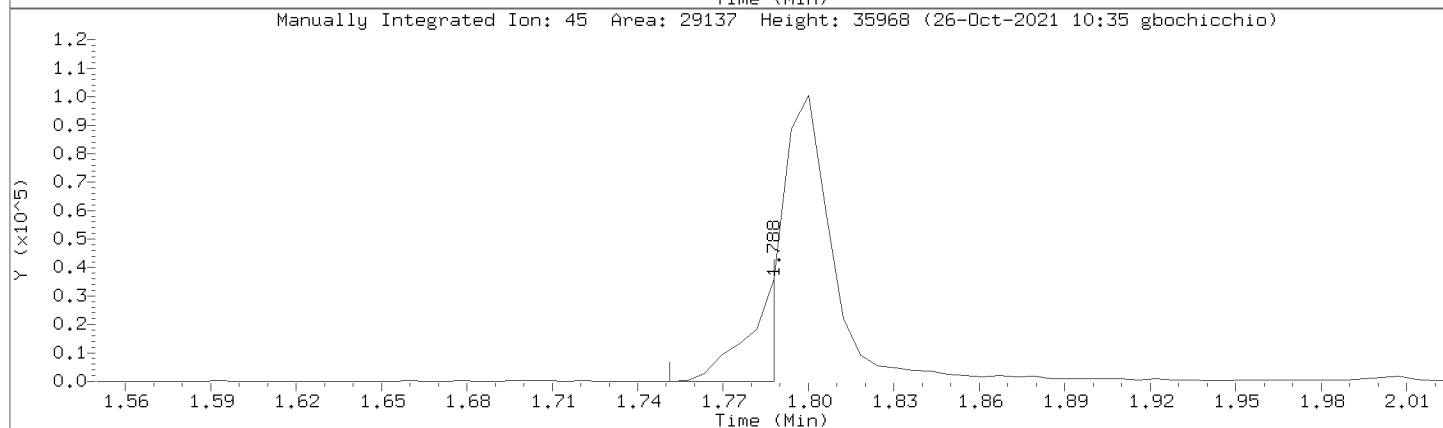
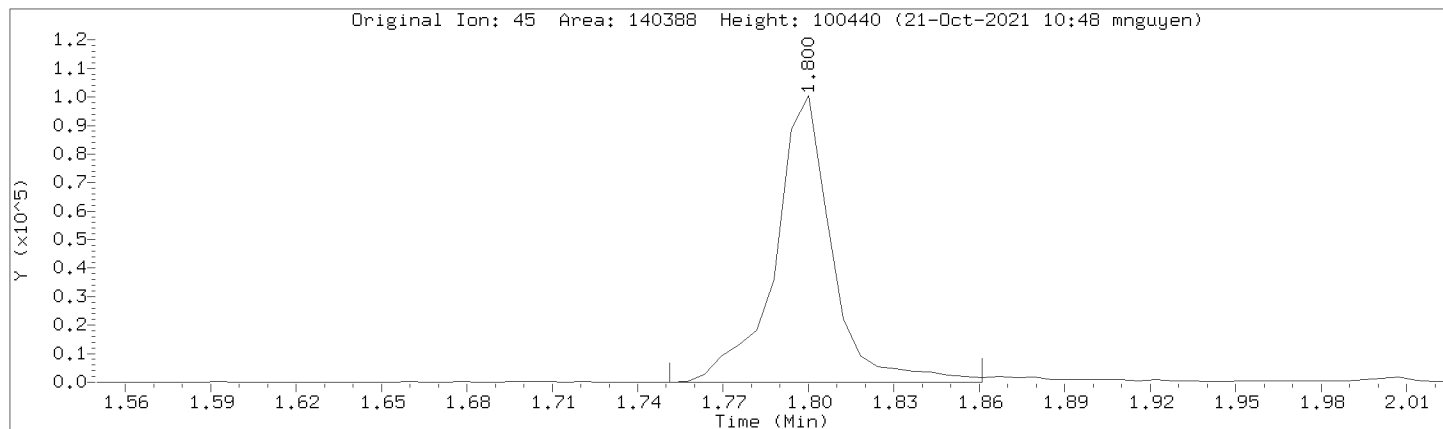
Injection Date: 20-OCT-2021 15:09

Instrument: 70msv8.i

Lab Sample ID: 1160403

Compound: Ethanol Review Code:

CAS Number:



MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MSD

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 15:29  
Date Analyzed: 10/20/2021 15:29  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160404  
Lab File ID: 102021.B\BP35512.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	29.6	
71-43-2	Benzene	49.5	
108-86-1	Bromobenzene	46.5	
74-97-5	Bromochloromethane	44.8	
75-27-4	Bromodichloromethane	44.9	
75-25-2	Bromoform	41.5	
74-83-9	Bromomethane	22.1	
78-93-3	2-Butanone (MEK)	39.3	
104-51-8	n-Butylbenzene	50.0	
135-98-8	sec-Butylbenzene	48.1	
98-06-6	tert-Butylbenzene	49.1	
75-15-0	Carbon disulfide	44.0	
56-23-5	Carbon tetrachloride	50.4	
108-90-7	Chlorobenzene	45.7	
75-00-3	Chloroethane	83.2	
67-66-3	Chloroform	46.6	
74-87-3	Chloromethane	26.1	
95-49-8	2-Chlorotoluene	46.8	
106-43-4	4-Chlorotoluene	47.1	
96-12-8	1,2-Dibromo-3-chloropropane	45.1	
124-48-1	Dibromochloromethane	40.8	
106-93-4	1,2-Dibromoethane (EDB)	44.9	
74-95-3	Dibromomethane	46.2	
95-50-1	1,2-Dichlorobenzene	47.2	
541-73-1	1,3-Dichlorobenzene	47.1	
106-46-7	1,4-Dichlorobenzene	45.9	
75-71-8	Dichlorodifluoromethane	20.7	
75-34-3	1,1-Dichloroethane	56.1	
107-06-2	1,2-Dichloroethane	44.8	
75-35-4	1,1-Dichloroethene	54.4	
156-59-2	cis-1,2-Dichloroethene	47.8	
156-60-5	trans-1,2-Dichloroethene	47.8	
78-87-5	1,2-Dichloropropane	45.5	
142-28-9	1,3-Dichloropropane	45.0	
594-20-7	2,2-Dichloropropane	43.8	
563-58-6	1,1-Dichloropropene	43.0	
10061-01-5	cis-1,3-Dichloropropene	46.7	

11/11/2021 2:03

MSV - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MSD

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 15:29  
Date Analyzed: 10/20/2021 15:29  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160404  
Lab File ID: 102021.B\P35512.D  
Instrument: 70MSV8 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-02-6	trans-1,3-Dichloropropene	44.2	
123-91-1	1,4-Dioxane (p-Dioxane)	1200	
100-41-4	Ethylbenzene	44.9	
87-68-3	Hexachloro-1,3-butadiene	39.2	
591-78-6	2-Hexanone	37.9	
98-82-8	Isopropylbenzene (Cumene)	47.8	
99-87-6	p-Isopropyltoluene	50.2	
75-09-2	Methylene Chloride	44.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	44.1	
1634-04-4	Methyl-tert-butyl ether	41.7	
91-20-3	Naphthalene	51.7	
103-65-1	n-Propylbenzene	48.7	
100-42-5	Styrene	47.3	
630-20-6	1,1,1,2-Tetrachloroethane	44.3	
79-34-5	1,1,2,2-Tetrachloroethane	49.5	
127-18-4	Tetrachloroethene	43.7	
108-88-3	Toluene	48.2	
87-61-6	1,2,3-Trichlorobenzene	46.7	
120-82-1	1,2,4-Trichlorobenzene	48.3	
71-55-6	1,1,1-Trichloroethane	47.2	
79-00-5	1,1,2-Trichloroethane	45.6	
79-01-6	Trichloroethene	46.3	
75-69-4	Trichlorofluoromethane	44.1	
96-18-4	1,2,3-Trichloropropane	44.5	
95-63-6	1,2,4-Trimethylbenzene	49.1	
108-67-8	1,3,5-Trimethylbenzene	50.4	
108-05-4	Vinyl acetate	39.2	
75-01-4	Vinyl chloride	37.1	
1330-20-7	Xylene (Total)	137	
179601-23-1	m&p-Xylene	91.4	
95-47-6	o-Xylene	46.0	

11/11/2021 2:03

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\102021.b\P35512.D  
 Lab Smp Id: 1160404 Client Smp ID: MW-5A/AR MS/MSDMSD  
 Inj Date : 20-OCT-2021 15:29 MS Autotune Date: 14-MAY-2021 14:0  
 Operator : KGG Inst ID: 70msv8.i  
 Smp Info : 1160404, 120466:1.25  
 Misc Info : 12755,  
 Comment :  
 Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
 Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
 Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
 Als bottle: 25 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: 8260.sub  
 Target Version: RC10A  
 Processing Host: 70MSV2WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
							ON-COLUMN ( ug/L)	FINAL ( ug/L)	
1 Chlorodifluoromethane	51		0.989	0.989	(0.269)	139167	32.4011	32.4	
2 Dichlorotetrafluoroethane	135		1.056	1.056	(0.287)	60647	27.5784	27.6	
3 Dichlorodifluoromethane	85		0.970	0.970	(0.264)	93830	20.7053	20.7 (QR)	
4 Chloromethane	50		1.104	1.104	(0.300)	124996	26.1442	26.1 (R)	
5 Vinyl chloride	62		1.172	1.172	(0.318)	190357	37.1434	37.1	
6 1,3-Butadiene	54		1.190	1.190	(0.323)	140790	35.7439	35.7	
7 Acetaldehyde	44		1.263	1.263	(0.343)	28321	77.7429	77.7 (Q)	
8 Bromomethane	94		1.391	1.391	(0.378)	33333	22.0680	22.1 (R)	
9 Chloroethane	64		1.458	1.458	(0.396)	231684	83.2390	83.2 (R)	
10 Dichlorofluoromethane	67		1.604	1.598	(0.436)	282436	46.1646	46.2	
11 Trichlorofluoromethane	101		1.598	1.598	(0.434)	223119	44.0777	44.1	
12 Ethanol	45		1.799	1.799	(0.489)	125316	8040.83	8040 (AQR)	
13 Diethyl ether (Ethyl ether)	59		1.799	1.799	(0.489)	133095	45.2443	45.2	
16 1,1,2-Trichlorotrifluoroethane	101		1.927	1.921	(0.523)	157718	46.9492	46.9	
14 Acrolein	56		1.934	1.934	(0.525)	23552	62.1599	62.2	
15 1,1-Dichloroethene	96		1.952	1.946	(0.530)	158114	54.4348	54.4	
17 Acetone	43		2.037	2.037	(0.553)	31648	29.6304	29.6 (R)	
18 Iodomethane	142		2.068	2.062	(0.561)	54583	33.6470	33.6 (R)	
19 2-Propanol	45		2.123	2.123	(0.576)	111634	1053.59	1050	
20 Carbon disulfide	76		2.086	2.086	(0.566)	438245	43.9566	44.0	
21 Allyl chloride	76		2.214	2.214	(0.601)	92179	45.4610	45.5	
22 Acetonitrile	41		2.281	2.275	(0.619)	82858	215.964	216	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
23 Methyl acetate	43	2.238	2.232 (0.608)		161327	34.0916	34.1 (R)	
24 Methylene Chloride	84	2.318	2.318 (0.629)		154198	44.5559	44.6	
25 tert-Butyl Alcohol	59	2.397	2.397 (0.651)		39248	227.356	227 (Q)	
28 Methyl-tert-butyl ether	73	2.458	2.458 (0.667)		388734	41.7178	41.7	
27 trans-1,2-Dichloroethene	96	2.470	2.470 (0.671)		158470	47.7850	47.8	
26 Acrylonitrile	53	2.543	2.543 (0.691)		47347	44.7577	44.8	
30 n-Hexane	57	2.604	2.604 (0.707)		260775	44.7157	44.7	
29 Diisopropyl ether	45	2.793	2.793 (0.758)		539057	45.1084	45.1	
32 Vinyl acetate	43	2.836	2.836 (0.770)		278646	39.1749	39.2	
31 1,1-Dichloroethane	63	2.805	2.805 (0.762)		357703	56.1483	56.1	
33 Chloroprene	53	2.842	2.842 (0.772)		244838	51.6973	51.7	
34 Ethyl-tert-butyl ether	59	3.067	3.068 (0.833)		423904	40.0774	40.1	
36 2,2-Dichloropropane	77	3.226	3.226 (0.876)		179721	43.8100	43.8	
35 cis-1,2-Dichloroethene	96	3.256	3.250 (0.884)		177206	47.8293	47.8	
39 Ethyl acetate	61	3.250	3.250 (0.882)		255603	44.6708	44.7	
37 2-Butanone (MEK)	43	3.293	3.293 (0.894)		92020	39.3249	39.3	
41 Bromochloromethane	128	3.452	3.446 (0.937)		71949	44.8306	44.8	
42 Tetrahydrofuran	42	3.458	3.458 (0.939)		40939	39.8140	39.8	
43 Chloroform	83	3.500	3.500 (0.950)		268445	46.5906	46.6	
38 Propionitrile	54	3.403	3.397 (0.924)		18687	45.8240	45.8	
46 Cyclohexane	56	3.592	3.592 (0.975)		330949	43.0894	43.1	
45 1,1,1-Trichloroethane	97	3.616	3.616 (0.839)		228207	47.2332	47.2	
* 44 Pentafluorobenzene (IS)	168	3.683	3.683 (1.000)		396964	50.0000		
48 Carbon tetrachloride	117	3.720	3.714 (0.863)		213937	50.3867	50.4	
47 1,1-Dichloropropene	75	3.750	3.750 (0.870)		228292	43.0377	43.0	
55 2,2,4-Trimethylpentane	57	3.903	3.903 (1.060)		427306	42.3611	42.4	
51 Benzene	78	3.927	3.921 (0.911)		707134	49.5039	49.5	
40 Methacrylonitrile	67	3.488	3.488 (0.947)		61377	47.3242	47.3	
\$ 50 1,2-Dichloroethane-d4 (S)	65	3.951	3.945 (0.917)		227973	48.0387	48.0	
56 tert-Amylmethyl ether	73	4.000	4.000 (1.086)		377831	41.9279	41.9	
52 1,2-Dichloroethane	62	4.019	4.012 (1.091)		187185	44.7895	44.8	
57 n-Heptane	43	4.079	4.080 (1.108)		228114	39.5069	39.5	
* 58 1,4-Difluorobenzene (IS)	114	4.311	4.311 (1.000)		714209	50.0000		
59 Trichloroethene	95	4.506	4.506 (1.045)		171500	46.2978	46.3	
60 Methylcyclohexane	83	4.610	4.610 (1.069)		343067	46.8524	46.8	
49 Isobutanol	43	3.909	3.909 (1.061)		84316	185.779	186	
53 tert-Amyl Alcohol	59	Compound Not Detected.						
54 tert-Amyl ethyl ether	59	4.714	4.714 (1.280)		307684	38.8851	38.9	
61 1,2-Dichloropropane	63	4.774	4.768 (1.107)		179379	45.5142	45.5	
63 Methyl methacrylate	69	4.878	4.872 (1.131)		99046	43.9932	44.0	
64 1,4-Dioxane (p-Dioxane)	88	4.902	4.903 (1.137)		27431	1204.29	1200 (Q)	
62 Dibromomethane	93	4.890	4.884 (1.134)		91927	46.1741	46.2	
65 Bromodichloromethane	83	5.043	5.037 (1.170)		199729	44.8647	44.9	
66 2-Nitropropane	43	5.360	5.366 (1.243)		28772	16.3644	16.4 (QR)	
67 2-Chloroethylvinyl ether	63	Compound Not Detected.						
68 cis-1,3-Dichloropropene	75	5.506	5.506 (1.277)		250426	46.6642	46.7	
69 4-Methyl-2-pentanone (MIBK)	43	5.677	5.683 (1.317)		132461	44.0572	44.0	
\$ 70 Toluene-d8 (S)	98	5.726	5.726 (0.770)		897115	50.8150	50.8	
71 Toluene	91	5.799	5.799 (1.345)		772416	48.2051	48.2	
72 Methyl isothiocyanate	73	6.030	6.030 (1.399)		202511	100.794	101	
74 trans-1,3-Dichloropropene	75	6.146	6.146 (1.426)		200386	44.1747	44.2	
75 Ethyl methacrylate	69	6.201	6.201 (1.438)		192455	46.3937	46.4	
76 1,1,2-Trichloroethane	83	6.347	6.341 (1.472)		124349	45.5875	45.6	
77 Tetrachloroethene	166	6.360	6.360 (0.856)		158271	43.6571	43.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
78 1,3-Dichloropropane	76	6.536	6.536	(0.879)	247078	45.0081	45.0	
79 2-Hexanone	43	6.628	6.628	(0.892)	85873	37.9341	37.9	
73 n-Octane	43	5.860	5.860	(1.359)	197082	37.1567	37.2 (Q)	
81 n-Butyl acetate	43	6.756	6.756	(1.567)	57588	62.9784	63.0	
80 Dibromochloromethane	129	6.750	6.750	(0.908)	119858	40.8290	40.8	
82 1,2-Dibromoethane (EDB)	107	6.884	6.878	(1.597)	127047	44.8738	44.9	
* 83 Chlorobenzene-d5 (IS)	82	7.432	7.426	(1.000)	364399	50.0000		
84 Chlorobenzene	112	7.469	7.469	(1.005)	448623	45.7111	45.7	
86 Ethylbenzene	106	7.597	7.603	(1.022)	256035	44.8924	44.9	
85 1,1,1,2-Tetrachloroethane	131	7.609	7.609	(1.024)	134546	44.2797	44.3	
88 n-Nonane	43	7.768	7.762	(1.045)	151859	39.5106	39.5 (Q)	
87 m&p-Xylene	106	7.786	7.780	(1.048)	627082	91.4479	91.4	
89 o-Xylene	106	8.365	8.365	(1.125)	300707	45.9780	46.0	
90 Styrene	104	8.408	8.408	(1.131)	506798	47.2831	47.3	
91 Bromoform	173	8.646	8.646	(1.163)	67801	41.5334	41.5	
92 Isopropylbenzene (Cumene)	105	8.816	8.816	(0.875)	786803	47.8006	47.8	
§ 93 4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	328512	50.6959	50.7	
94 Bromobenzene	156	9.146	9.146	(0.908)	169205	46.4970	46.5	
95 1,1,2,2-Tetrachloroethane	83	9.243	9.243	(0.918)	173076	49.5260	49.5	
98 n-Propylbenzene	91	9.249	9.249	(0.918)	1012171	48.6911	48.7	
96 1,2,3-Trichloropropane	110	9.274	9.274	(0.921)	43964	44.5415	44.5	
97 trans-1,4-Dichloro-2-butene	53	9.310	9.310	(0.924)	38289	53.6698	53.7	
103 n-Decane	43	9.420	9.420	(1.267)	165886	55.6112	55.6 (Q)	
99 2-Chlorotoluene	91	9.341	9.341	(0.927)	571668	46.8425	46.8	
100 4-Ethyltoluene	105	9.371	9.371	(0.930)	811281	47.1130	47.1	
101 1,3,5-Trimethylbenzene	105	9.438	9.444	(0.937)	676261	50.4344	50.4	
102 4-Chlorotoluene	91	9.456	9.457	(0.939)	635682	47.1300	47.1	
104 tert-Butylbenzene	119	9.713	9.713	(0.964)	553859	49.0960	49.1	
105 Pentachloroethane	167	9.749	9.749	(0.968)	91108	47.4083	47.4	
106 1,2,4-Trimethylbenzene	105	9.767	9.767	(0.970)	661317	49.0544	49.0	
107 sec-Butylbenzene	105	9.902	9.902	(0.983)	840557	48.0937	48.1	
109 d-Limonene	136	9.969	9.969	(1.341)	26948	44.4551	44.4	
110 p-Isopropyltoluene	119	10.030	10.030	(0.996)	707649	50.1689	50.2	
108 1,3-Dichlorobenzene	146	10.005	10.005	(0.993)	324843	47.0941	47.1	
* 111 1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	301425	50.0000		
112 1,4-Dichlorobenzene	146	10.091	10.091	(1.002)	325858	45.9109	45.9	
113 1,2,3-Trimethylbenzene	105	10.115	10.115	(1.004)	660422	47.8597	47.8	
114 Benzyl chloride	91	10.225	10.225	(1.015)	166027	36.2590	36.2	
115 trans-Decalin	138	10.292	10.292	(1.022)	97645	42.6735	42.7	
116 1,4-Diethylbenzene	119	10.353	10.353	(1.028)	376821	47.2342	47.2	
117 n-Butylbenzene	91	10.377	10.377	(1.030)	804010	50.0407	50.0	
119 n-Undecane	43	10.450	10.450	(1.038)	182571	122.186	122 (Q)	
118 1,2-Dichlorobenzene	146	10.401	10.401	(1.033)	299728	47.2260	47.2	
120 cis-Decalin	138	10.810	10.816	(1.073)	75541	43.7912	43.8	
121 1,2,4,5-tetramethylbenzene	119	11.115	11.115	(1.103)	549323	49.5052	49.5	
122 1,2-Dibromo-3-chloropropane	75	11.206	11.206	(1.113)	22282	45.0934	45.1	
123 n-Dodecane	43	11.584	11.584	(1.150)	171097	273.297	273 (AQ)	
124 1,2,4-Trichlorobenzene	180	12.188	12.188	(1.210)	152221	48.3223	48.3	
125 Hexachloro-1,3-butadiene	225	12.389	12.383	(1.230)	58089	39.1559	39.2	
126 Naphthalene	128	12.553	12.560	(1.246)	366111	51.7498	51.7	
127 1,2,3-Trichlorobenzene	180	12.956	12.956	(1.286)	112922	46.6695	46.7	

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D  
Report Date: 21-Oct-2021 11:08

#### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.

#### Review Codes Legend

:

Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D  
Report Date: 21-Oct-2021 11:08

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

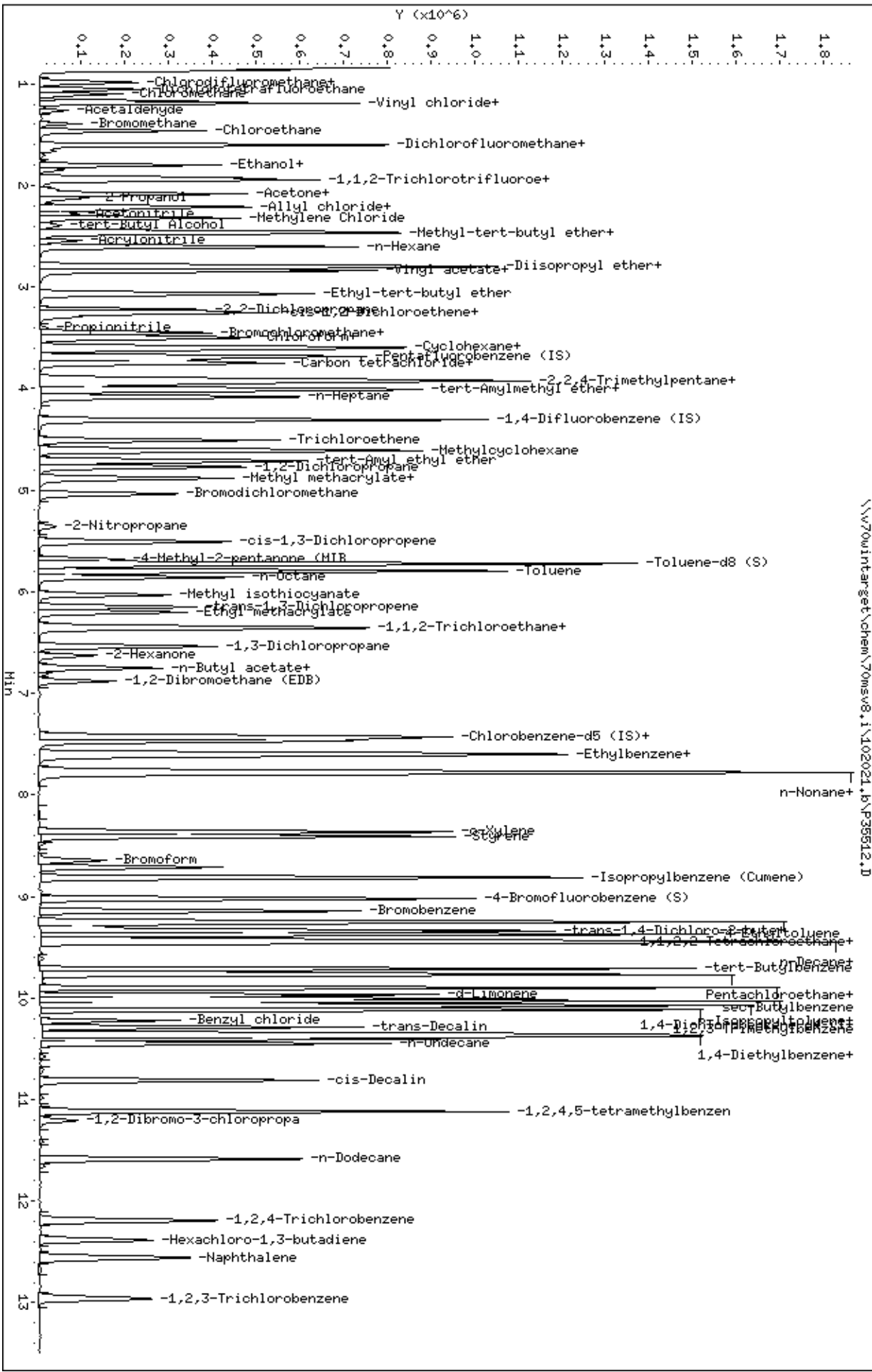
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Lab Smp Id: 1160404 Client Smp ID: MW-5A/AR MS/MSDMSD  
Inj Date : 20-OCT-2021 15:29 MS Autotune Date: 14-MAY-2021 14:0  
Operator : KGG Inst ID: 70msv8.i  
Smp Info : 1160404, 120466:1.25  
Misc Info : 12755,  
Comment :  
Method : \\v70wintarget\chem\70msv8.i\102021.b\060921\_8260W.m  
Meth Date : 21-Oct-2021 10:48 mnguyen Quant Type: ISTD  
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D  
Als bottle: 25 QC Sample: MSD  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 8260.sub  
Target Version: RC10A  
Processing Host: 70MSV2WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



Data File: \\V70wintarget\chem\70msv8.1\102021.b\35512.D  
 Date: 20-OCT-2021 15:29  
 Client ID: HM-54/AR HS/HSDMSD  
 Sample Info: 1160404, 120466;1.25  
 Purge Volume: 5.0  
 Column phase: RTX-624

Instrument: 70msv8.1  
 Operator: KOS  
 Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

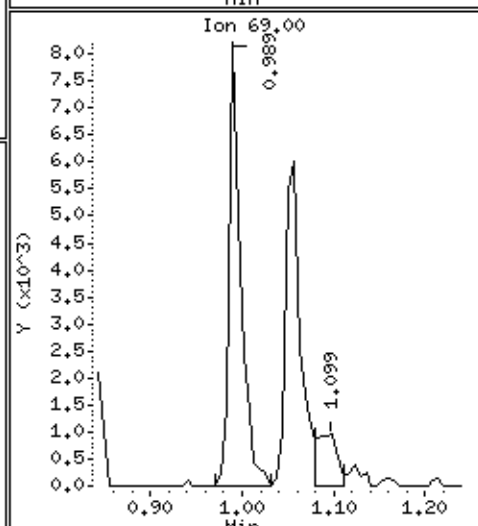
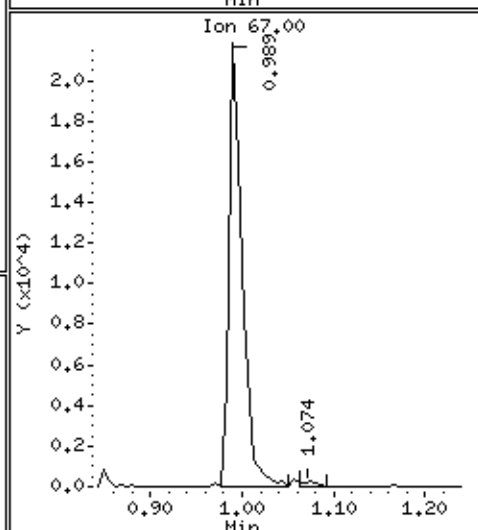
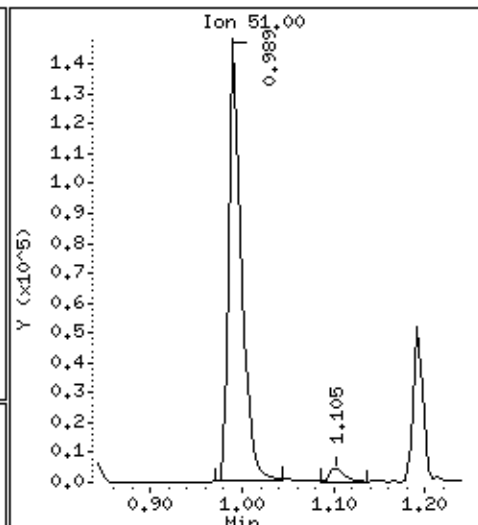
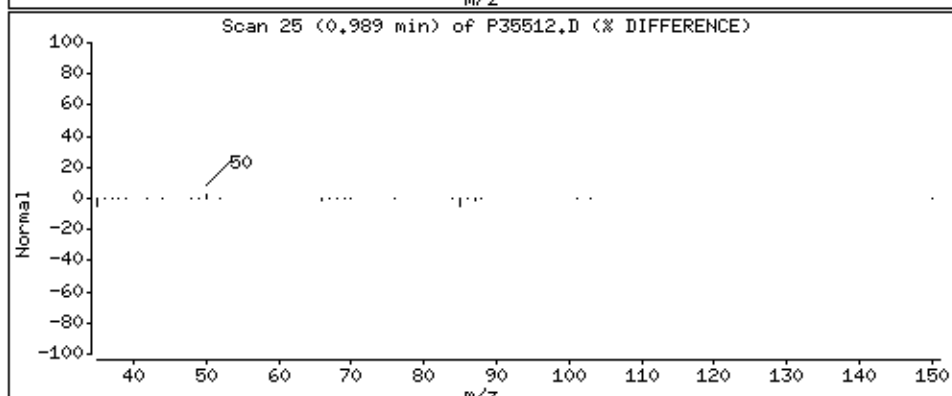
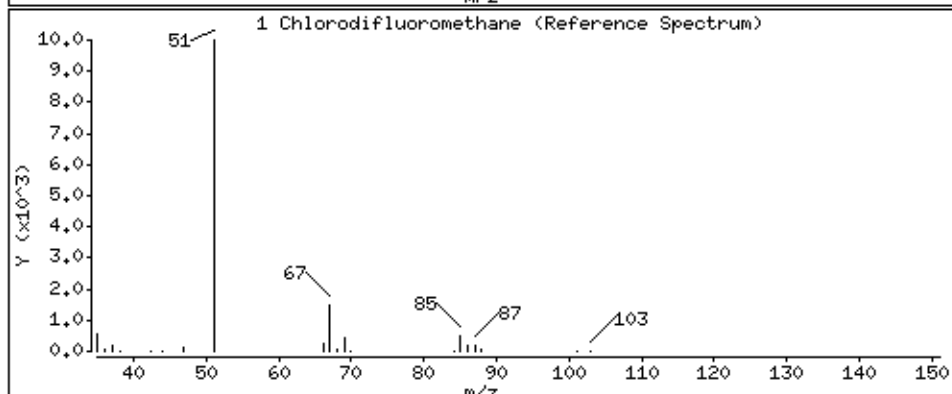
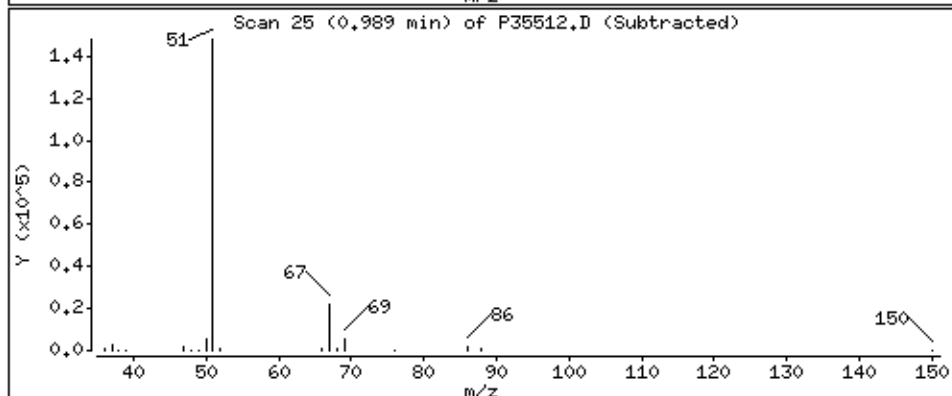
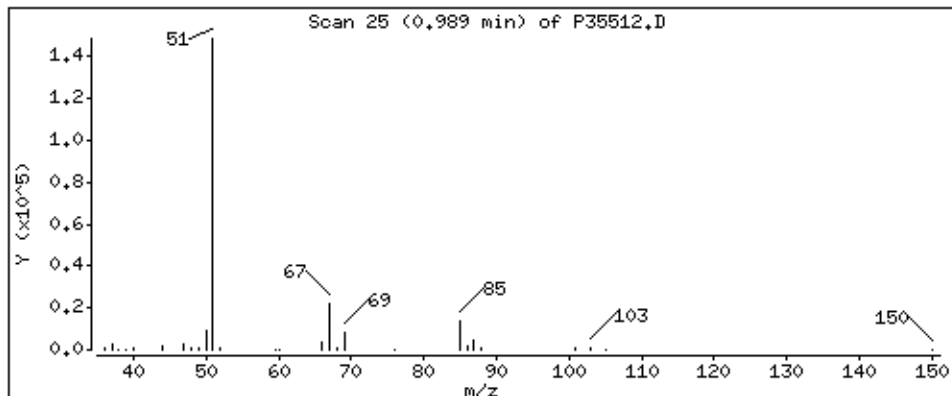
Column phase: RTX-624

Column diameter: 0,18

1 Chlorodifluoromethane

Concentration: 32.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

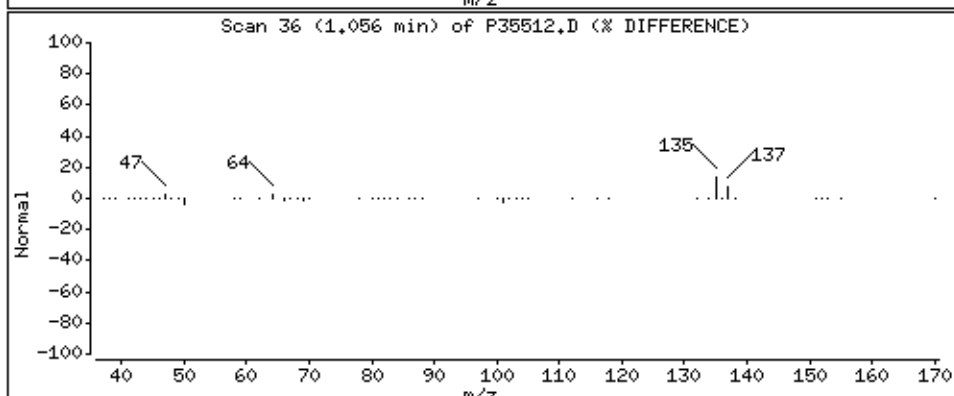
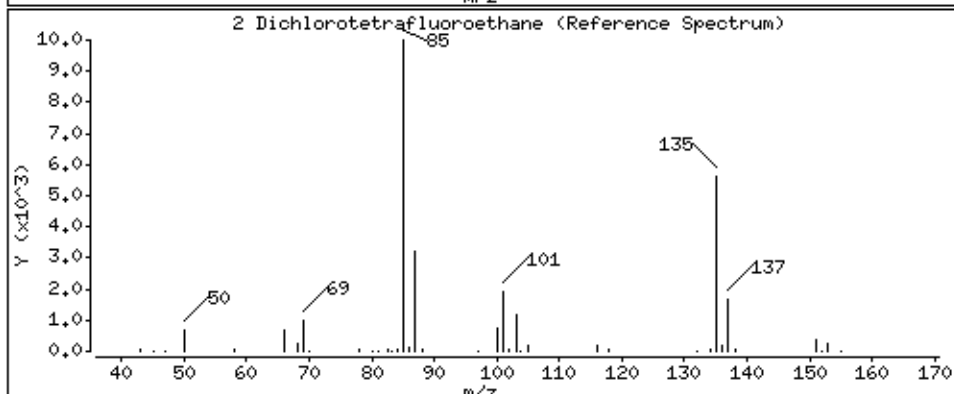
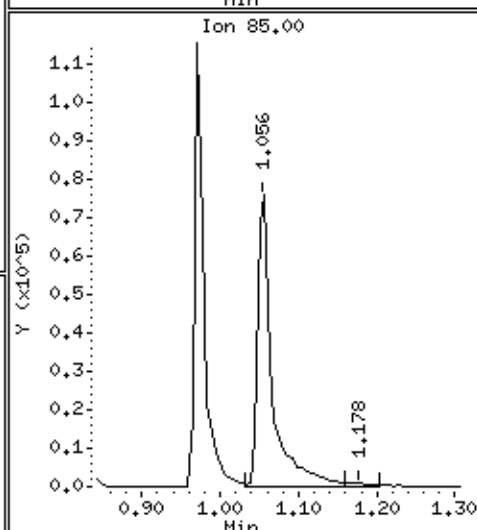
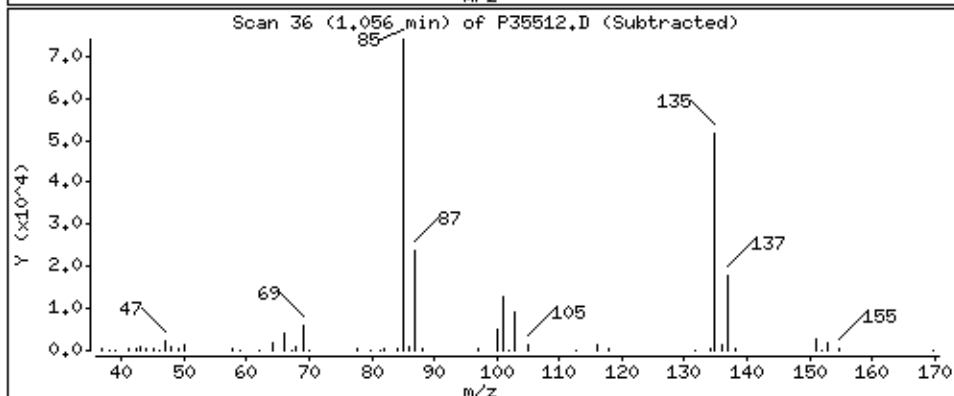
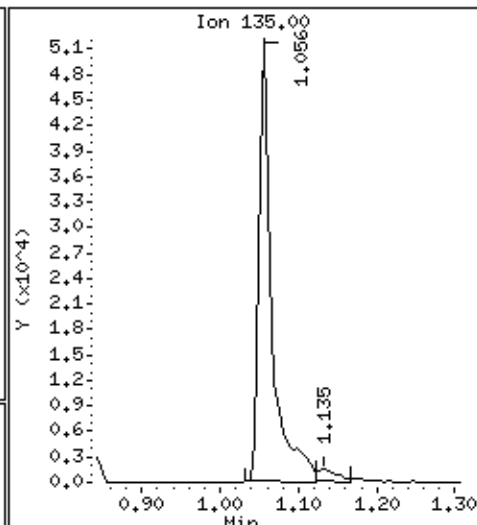
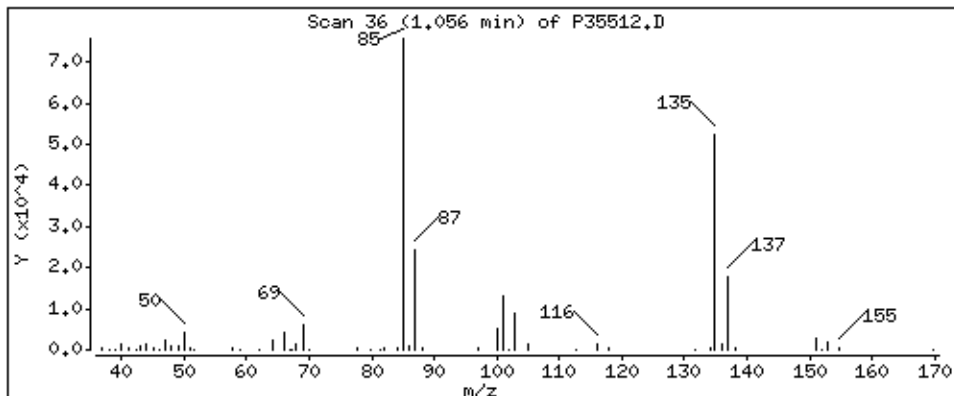
Column phase: RTX-624

Column diameter: 0,18

2 Dichlorotetrafluoroethane

Concentration: 27,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

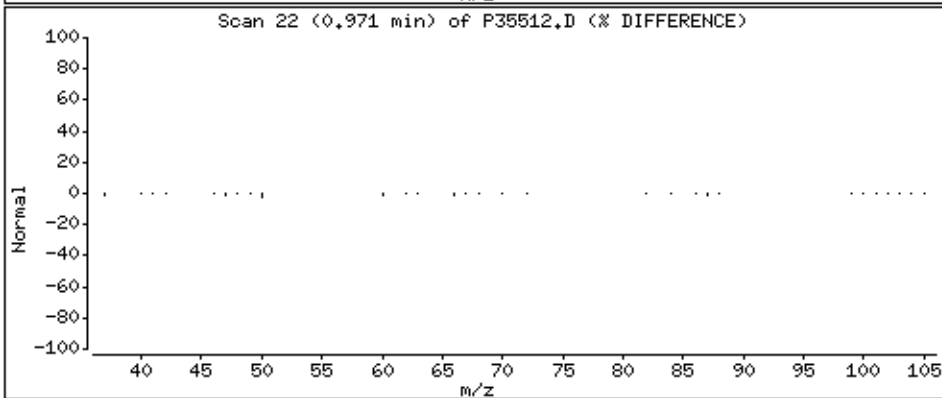
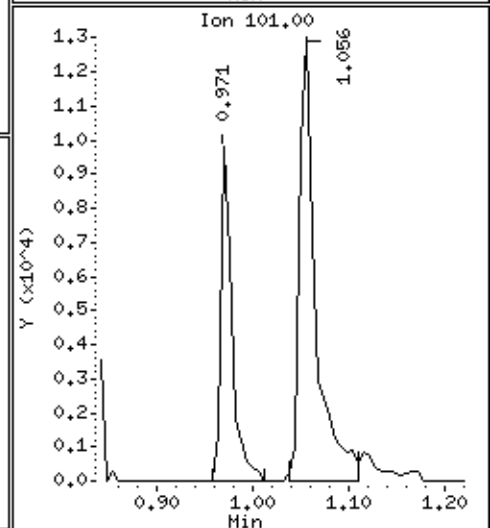
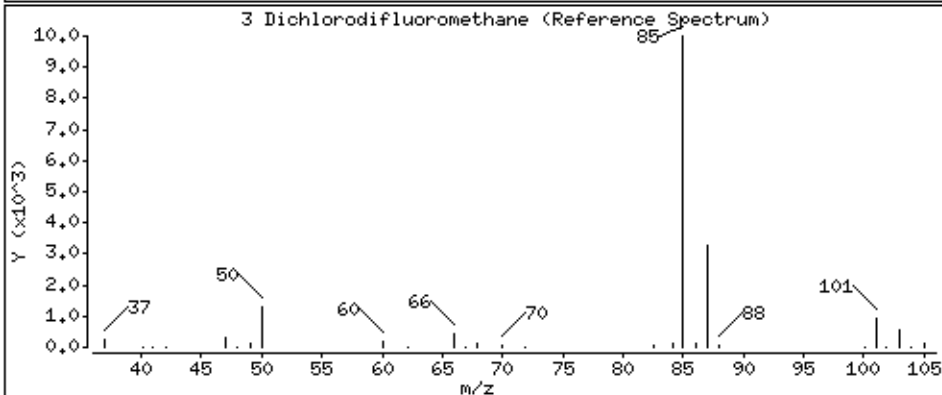
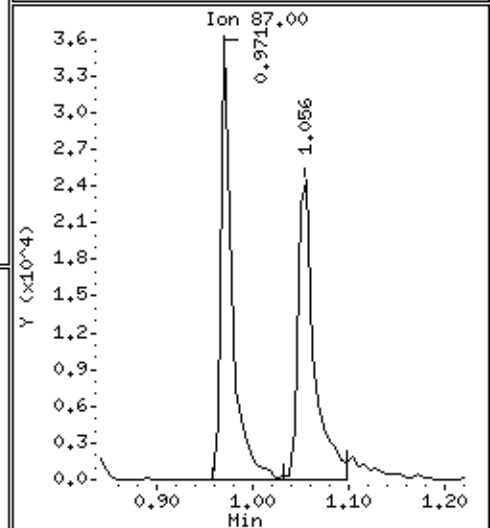
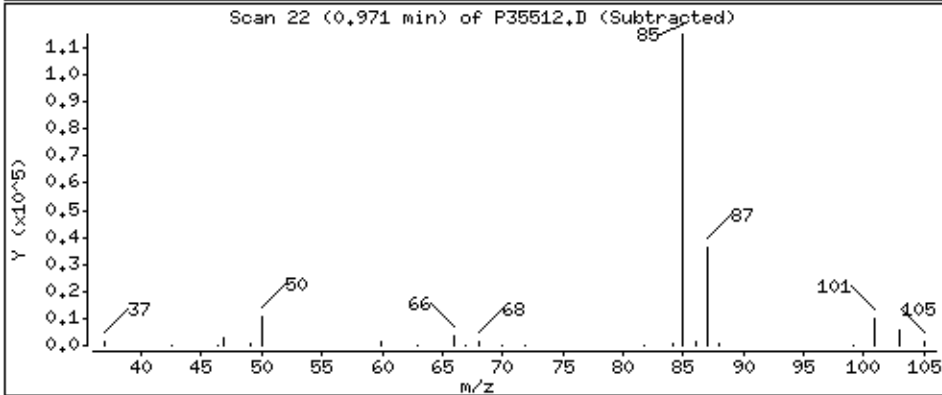
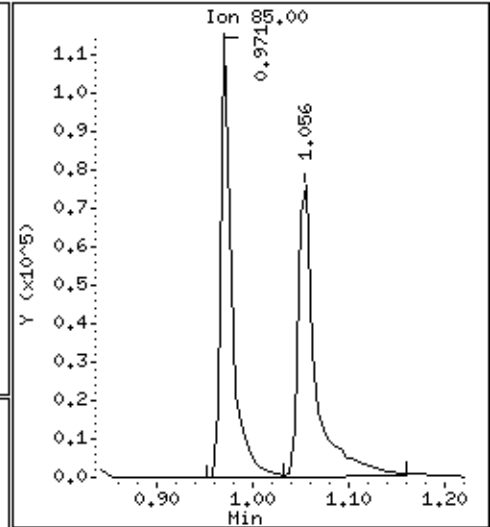
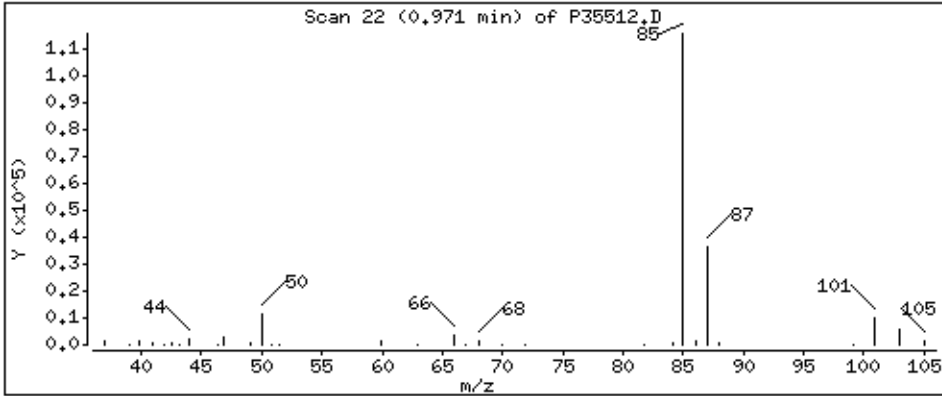
Column phase: RTX-624

Column diameter: 0,18

3 Dichlorodifluoromethane

Concentration: 20,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

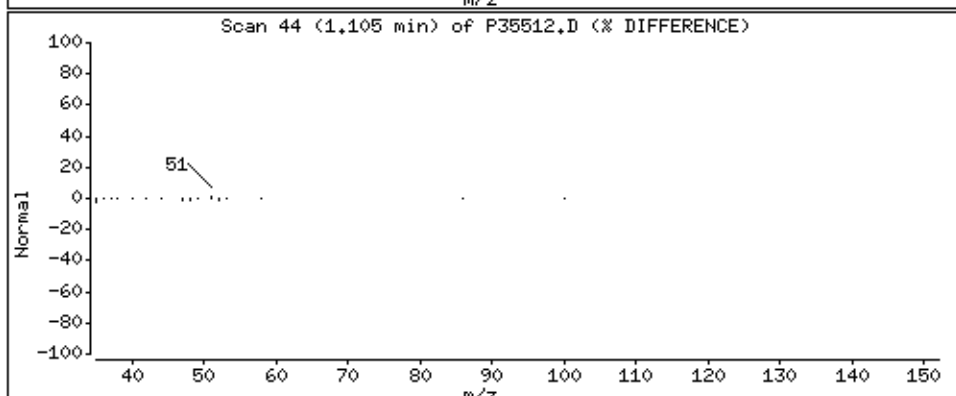
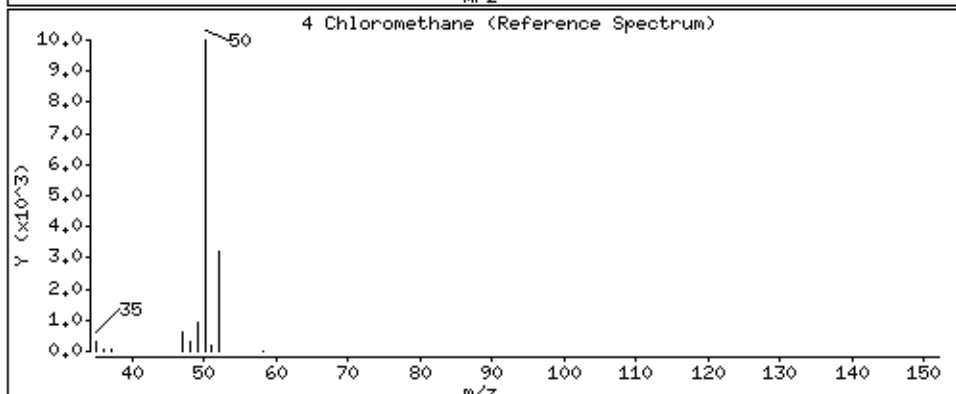
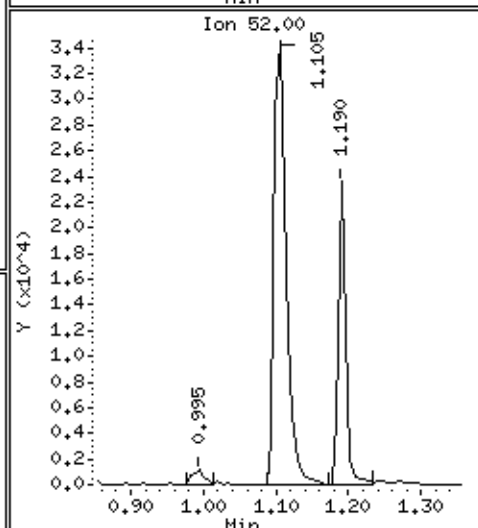
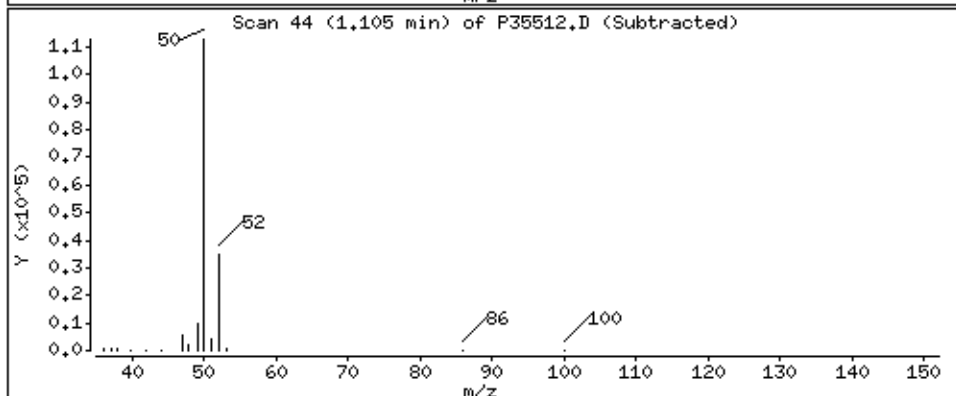
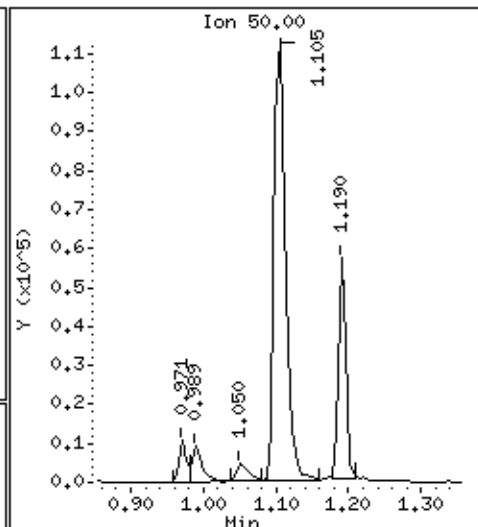
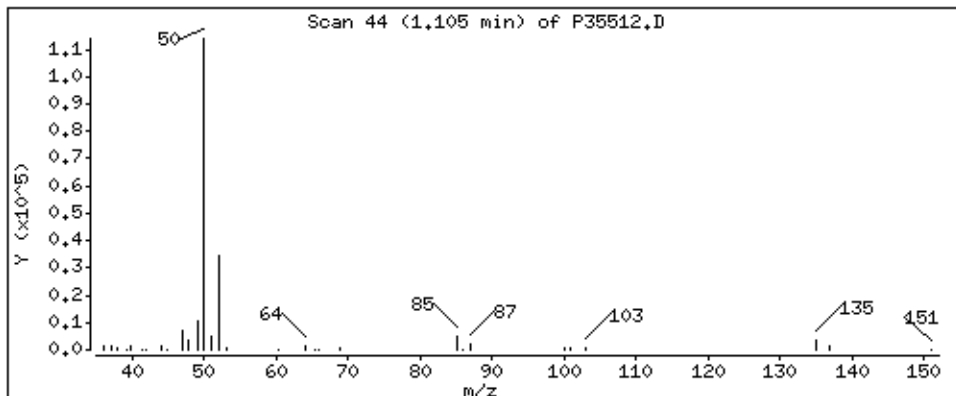
Column phase: RTX-624

Column diameter: 0,18

4 Chloromethane

Concentration: 26,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

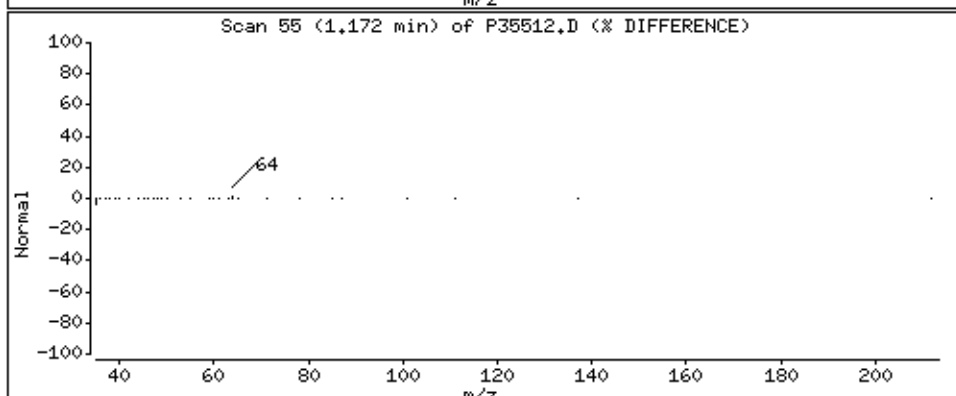
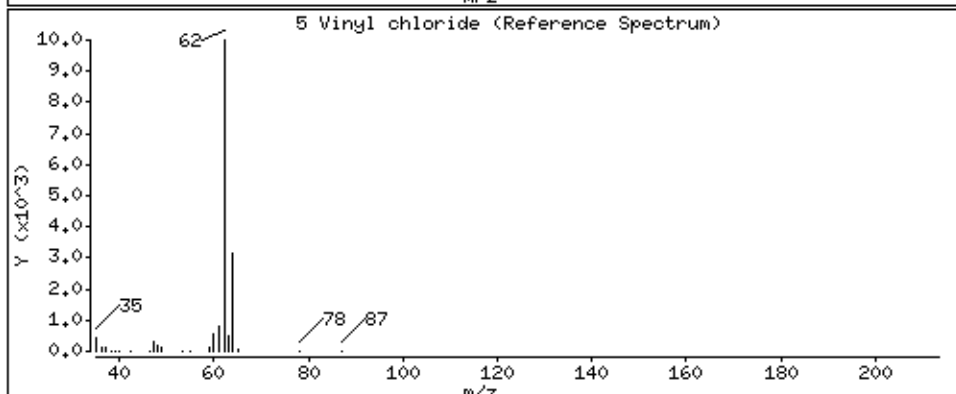
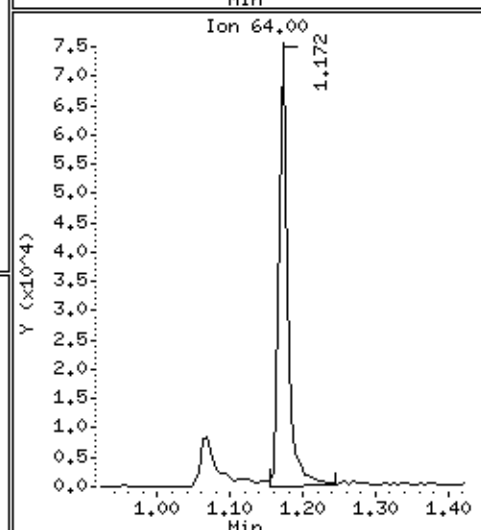
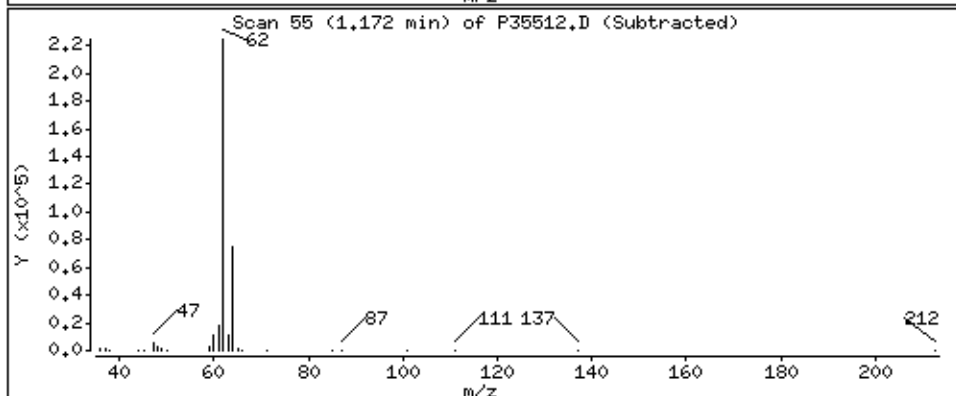
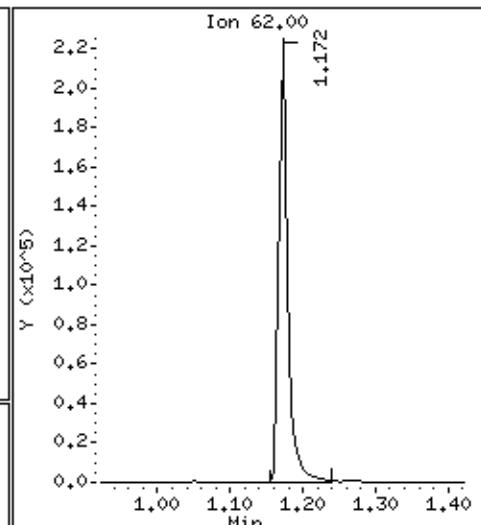
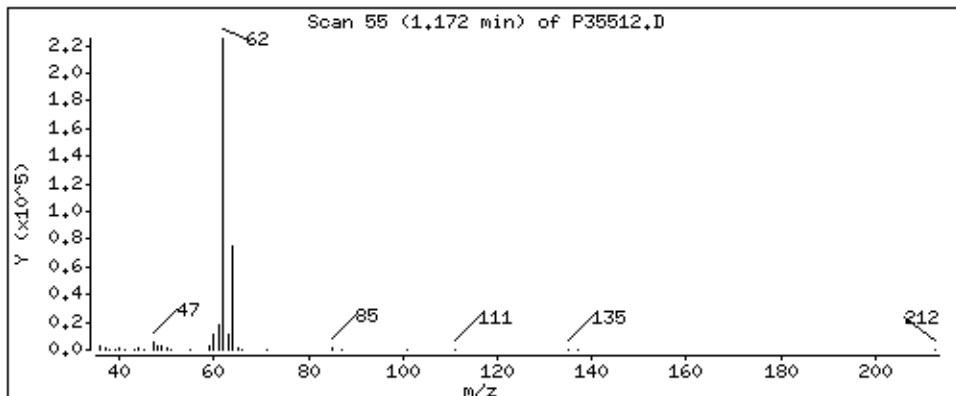
Column phase: RTX-624

Column diameter: 0,18

5 Vinyl chloride

Concentration: 37,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

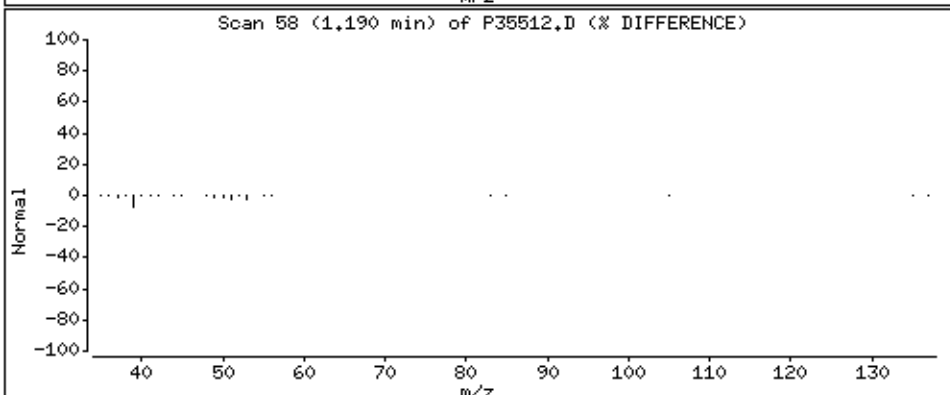
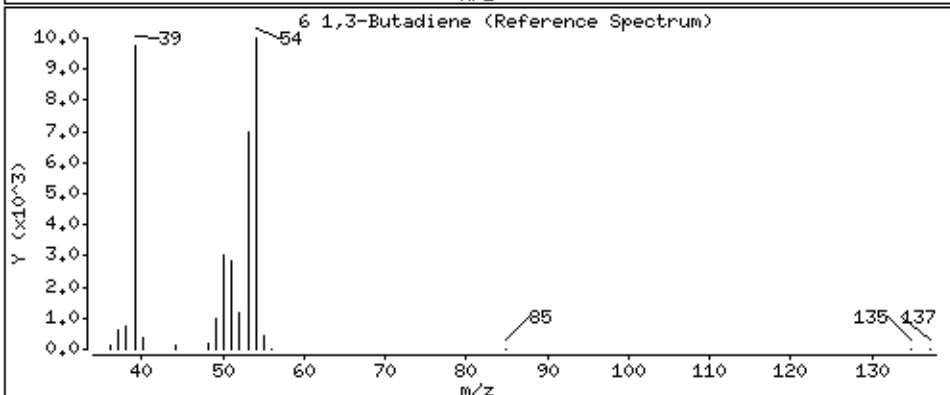
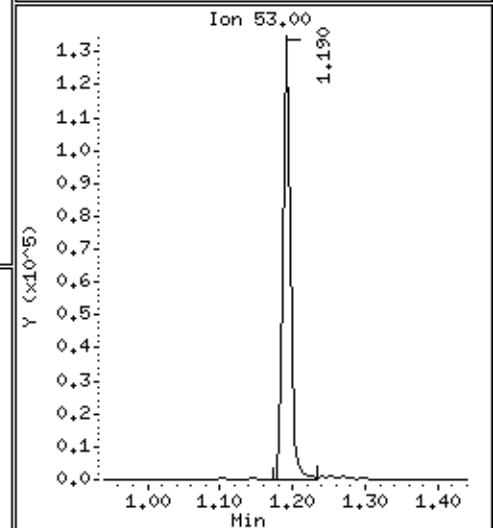
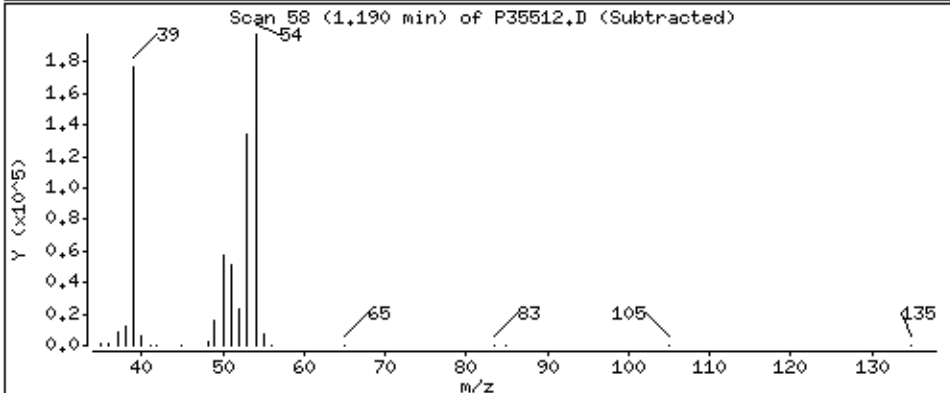
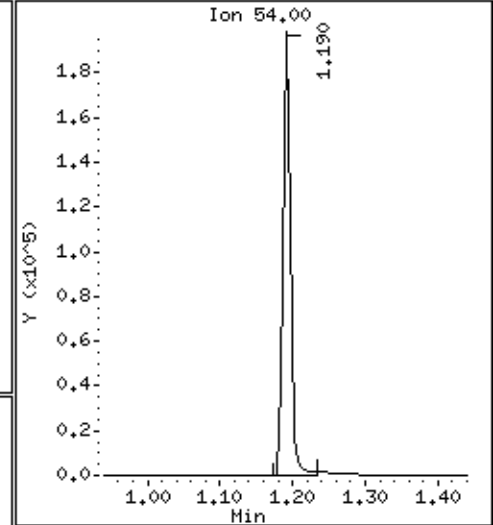
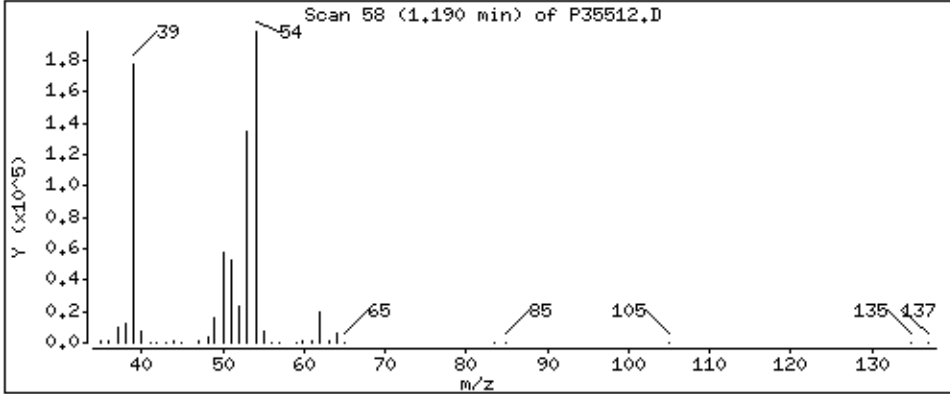
Column phase: RTX-624

Column diameter: 0,18

6 1,3-Butadiene

Concentration: 35,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

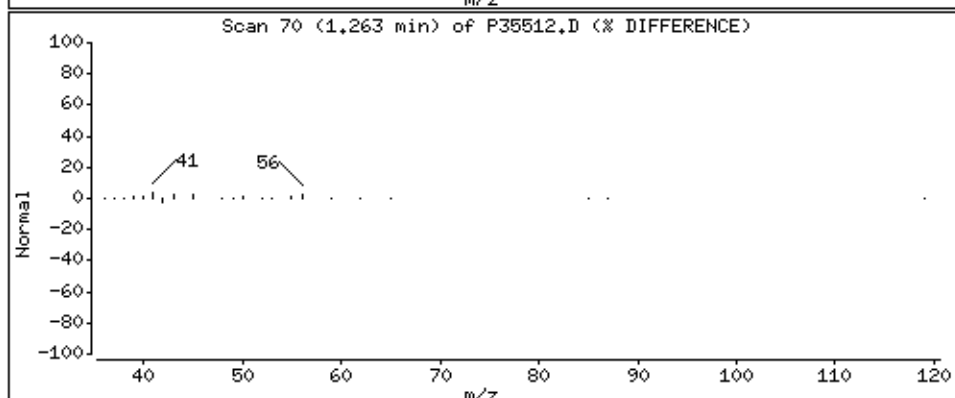
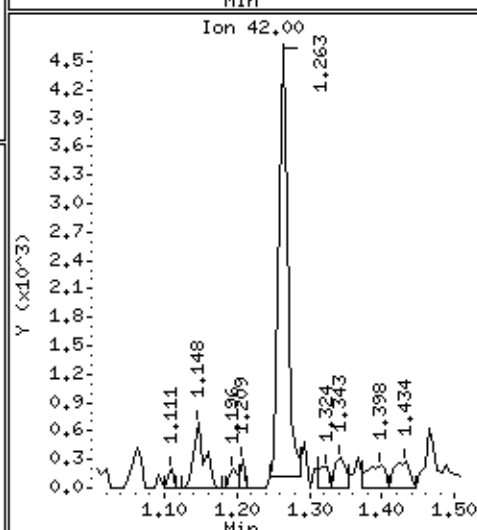
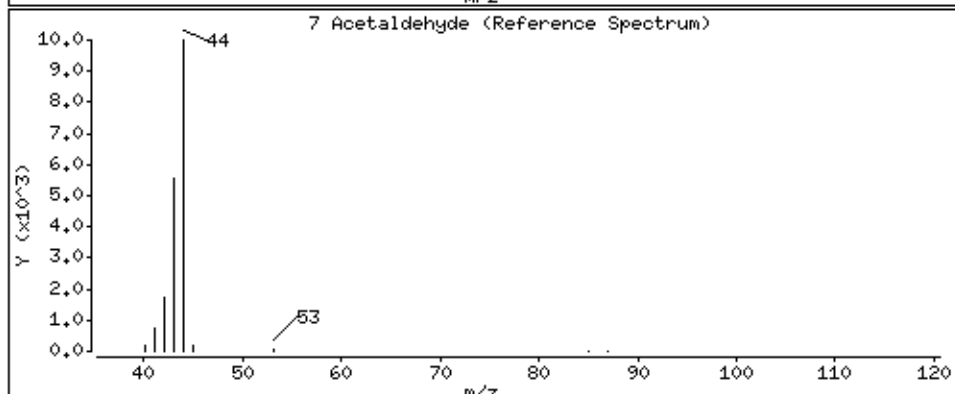
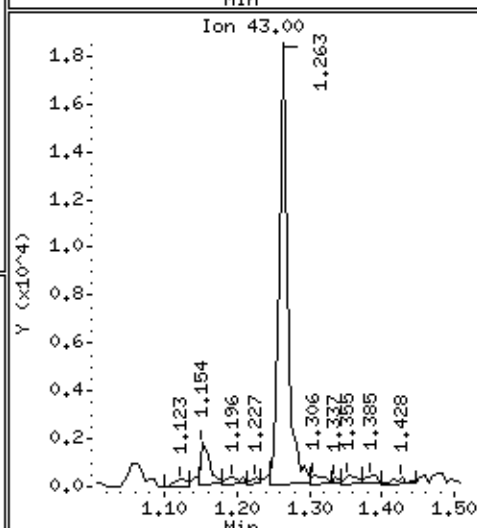
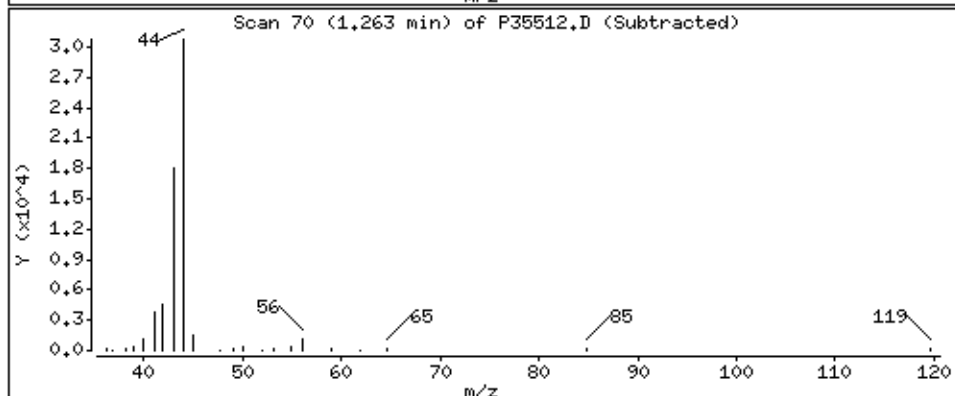
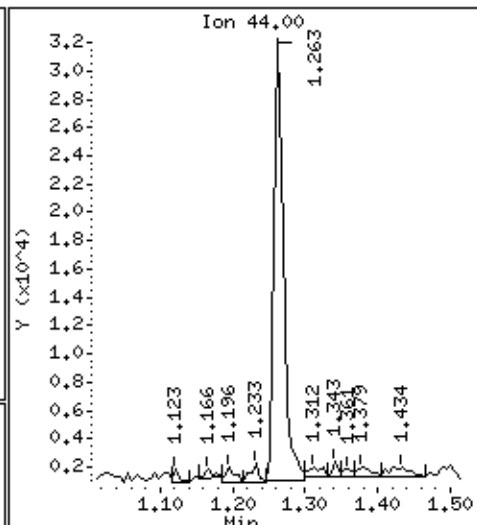
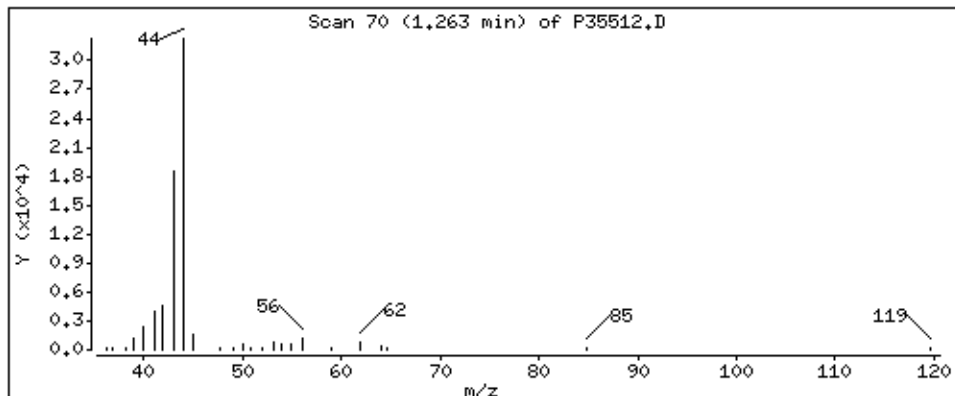
Column phase: RTX-624

Column diameter: 0.18

7 Acetaldehyde

Concentration: 77.7 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

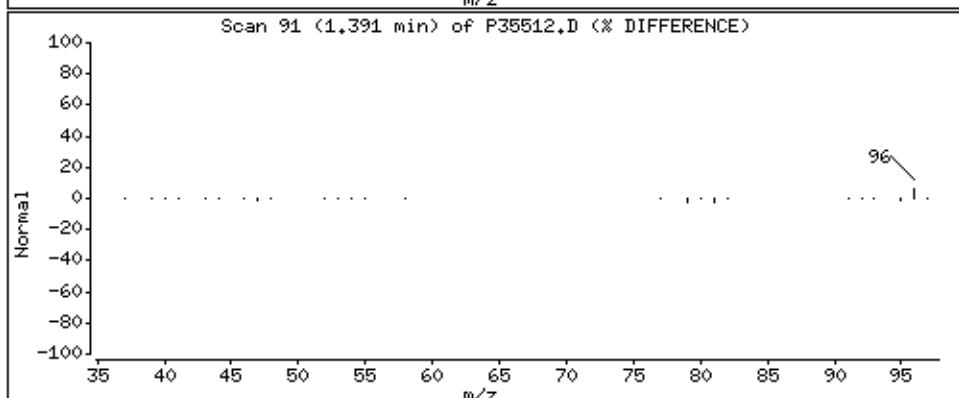
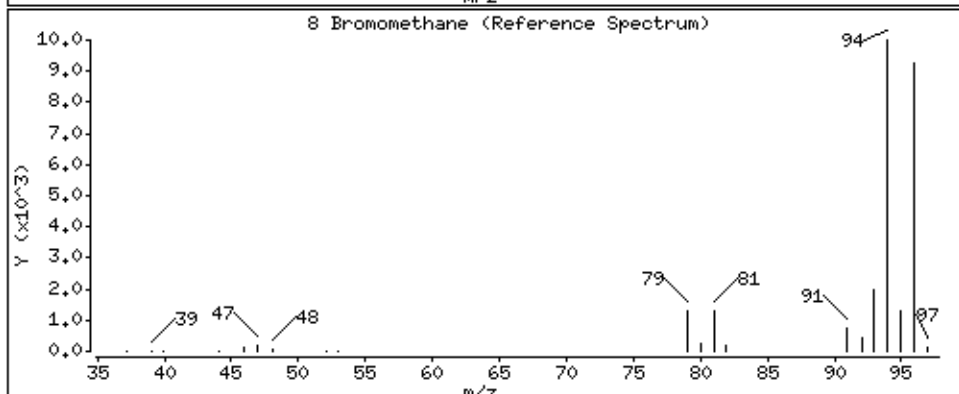
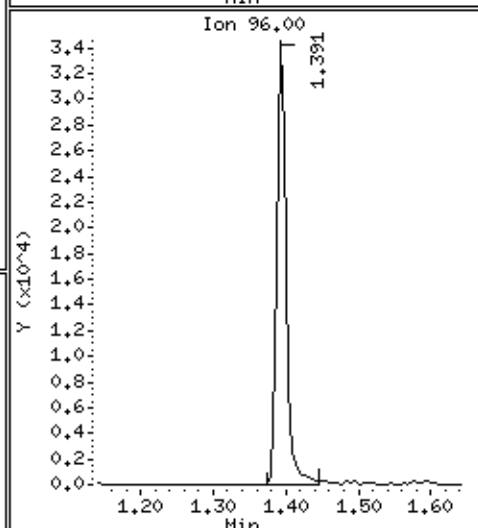
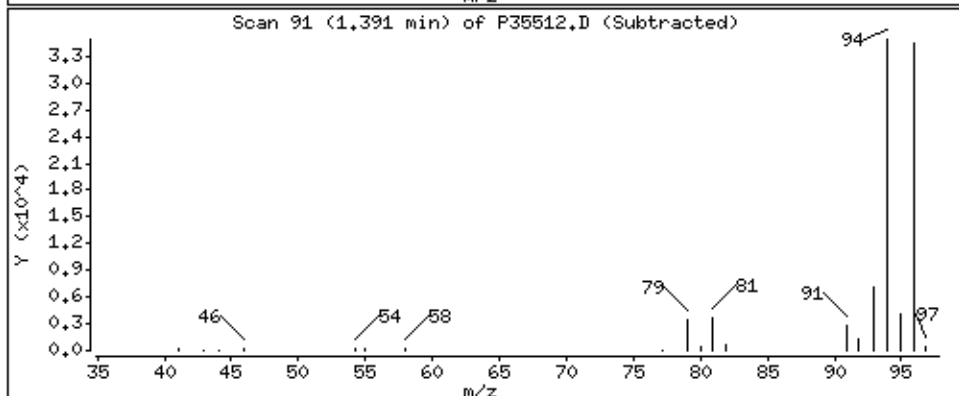
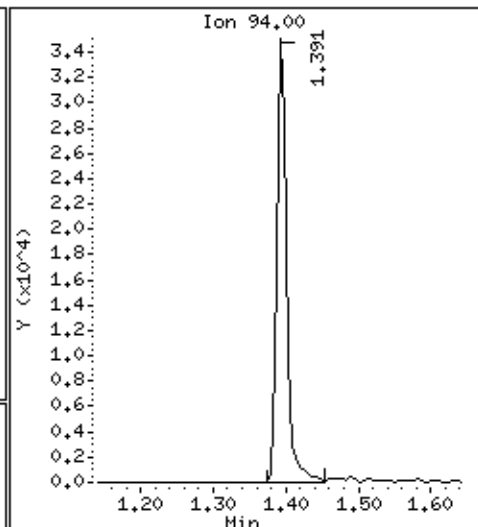
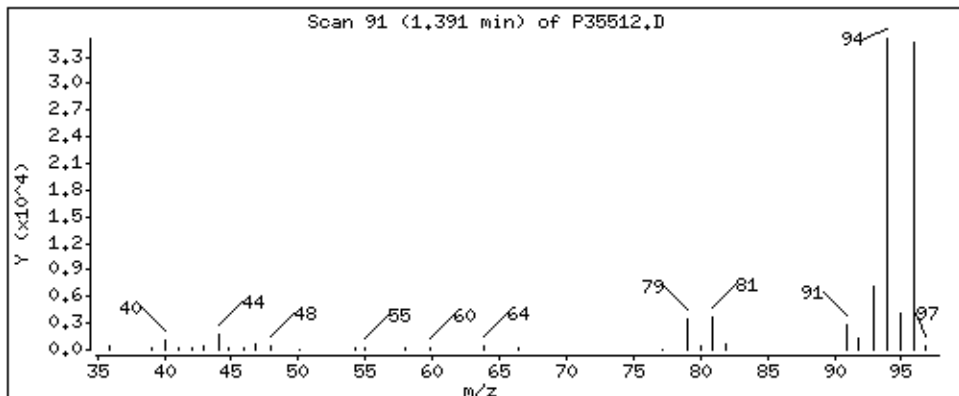
Column phase: RTX-624

Column diameter: 0.18

8 Bromomethane

Concentration: 22.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

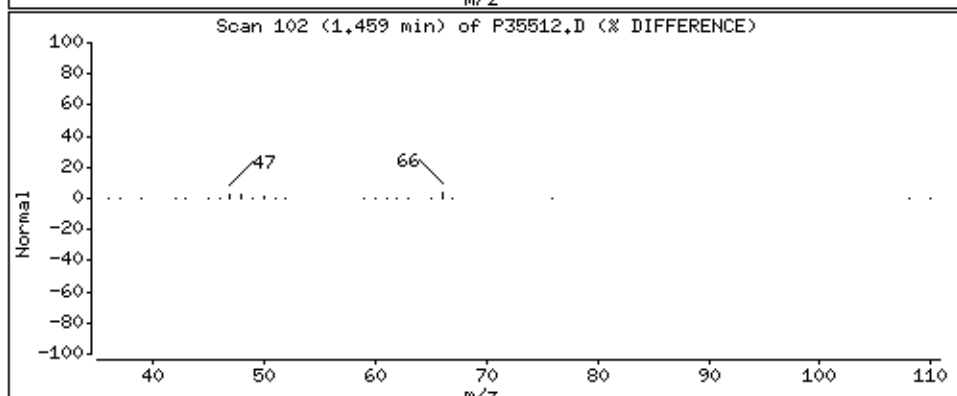
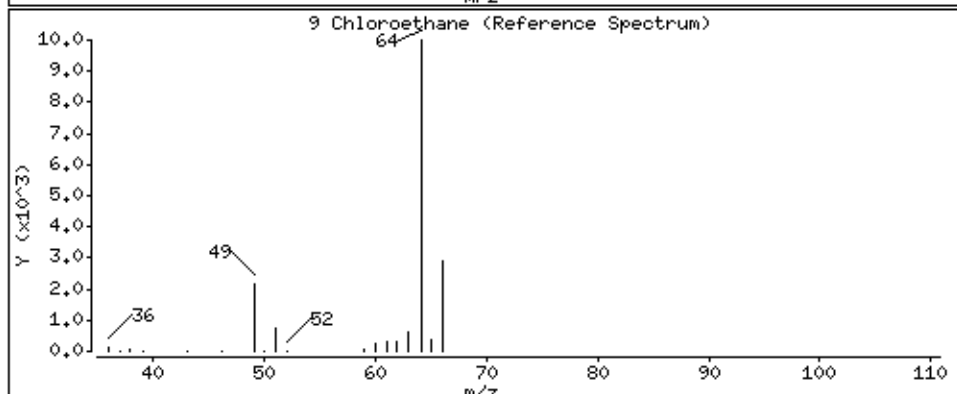
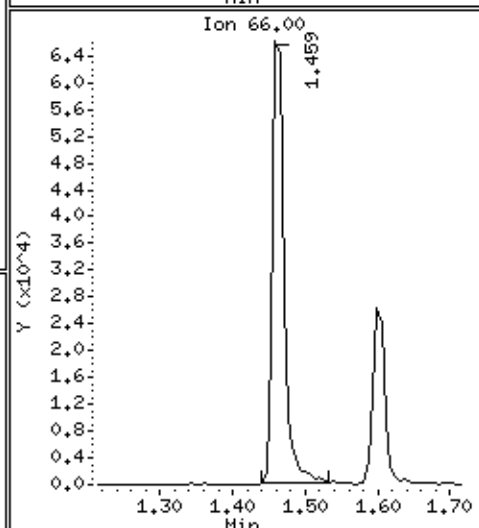
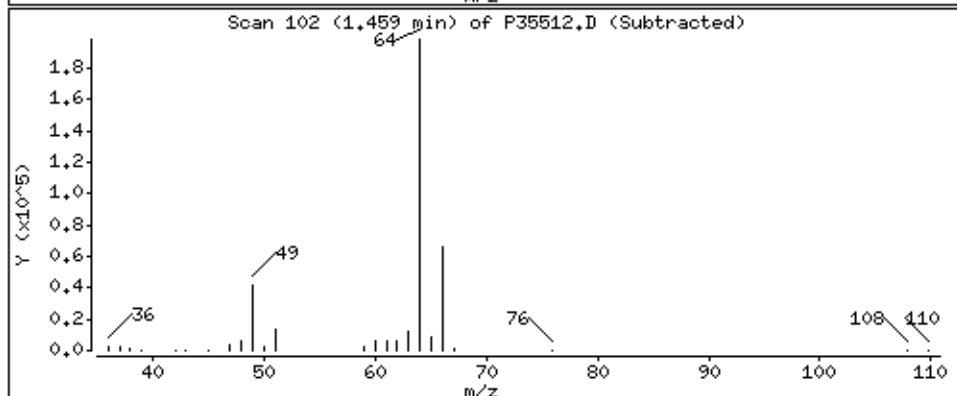
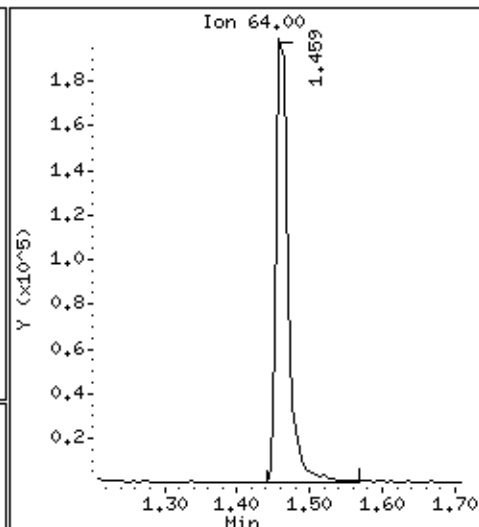
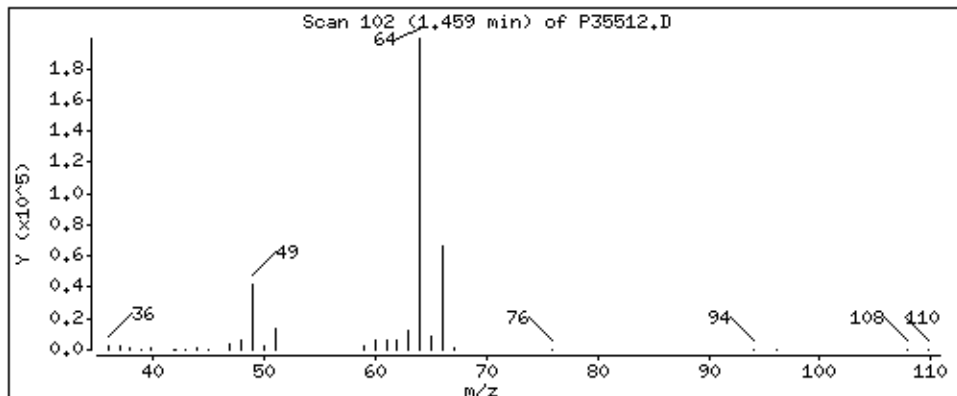
Column phase: RTX-624

Column diameter: 0.18

9 Chloroethane

Concentration: 83.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

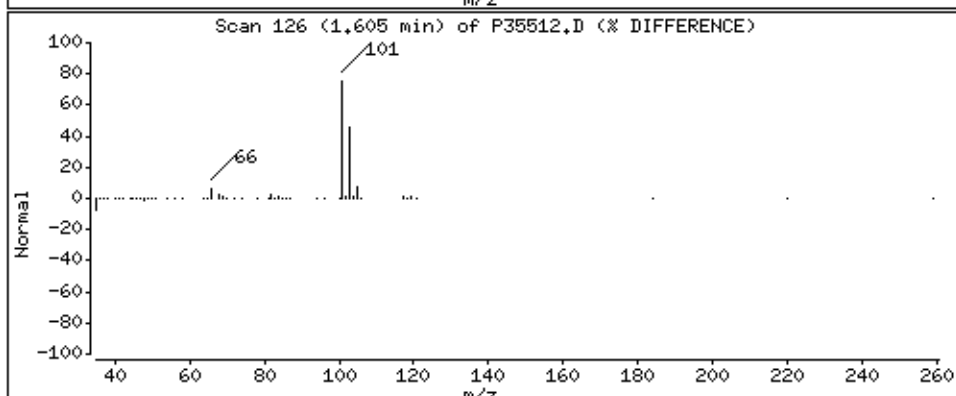
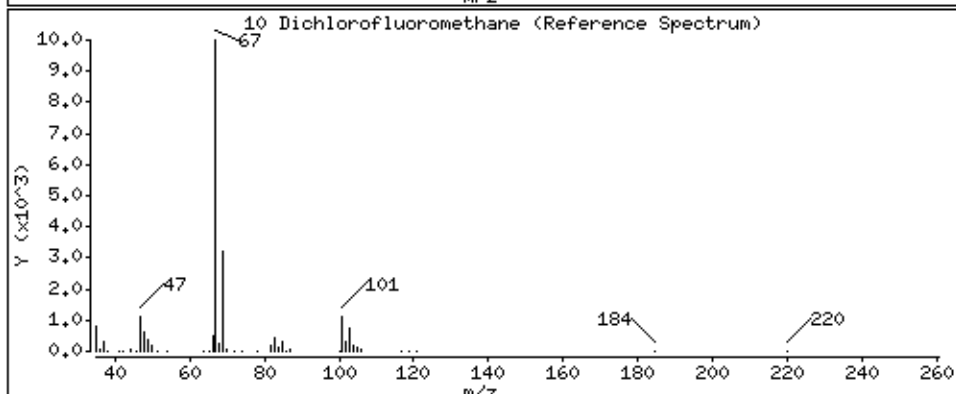
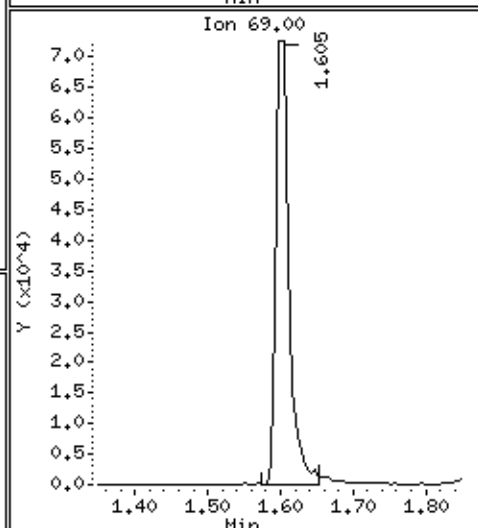
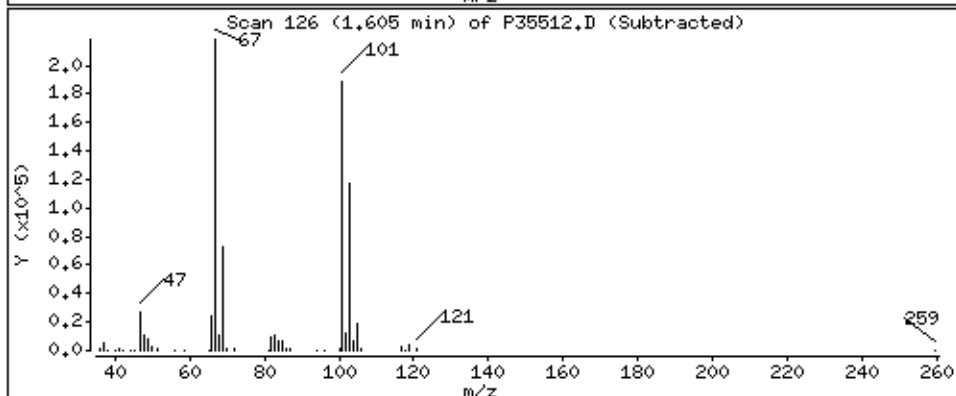
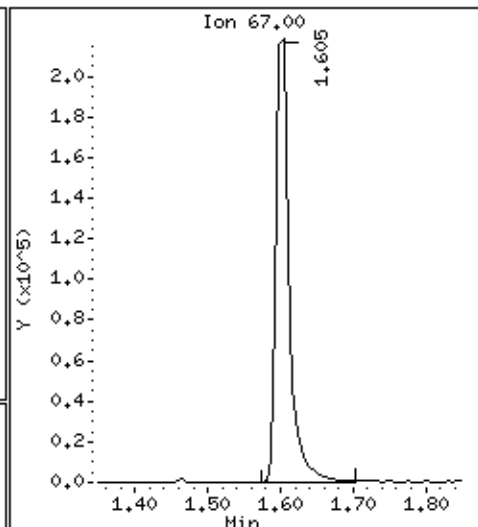
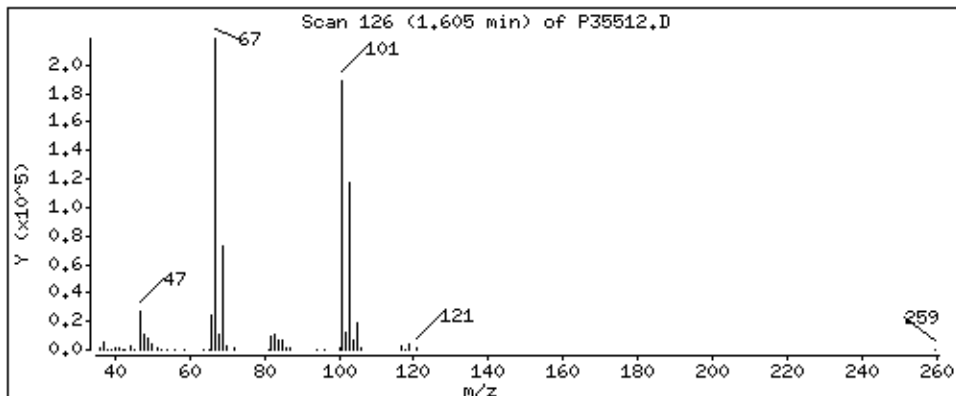
Column phase: RTX-624

Column diameter: 0,18

10 Dichlorofluoromethane

Concentration: 46,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

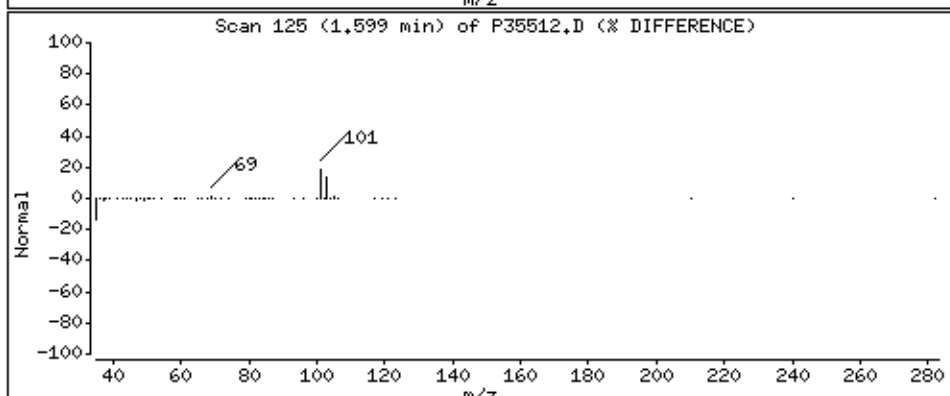
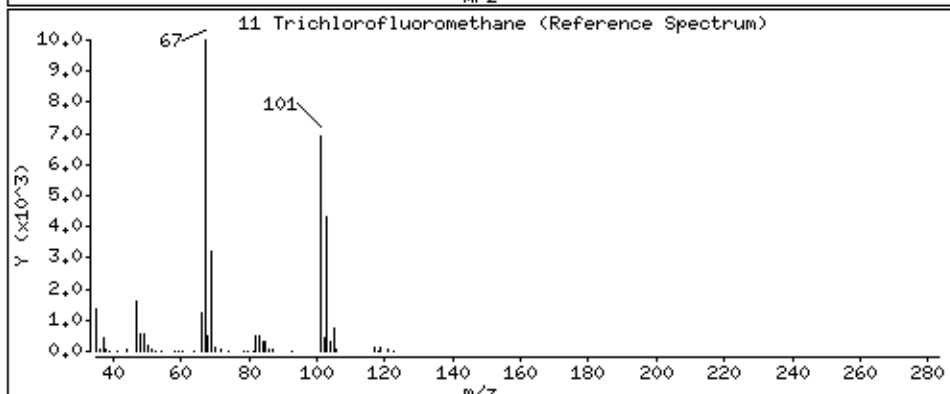
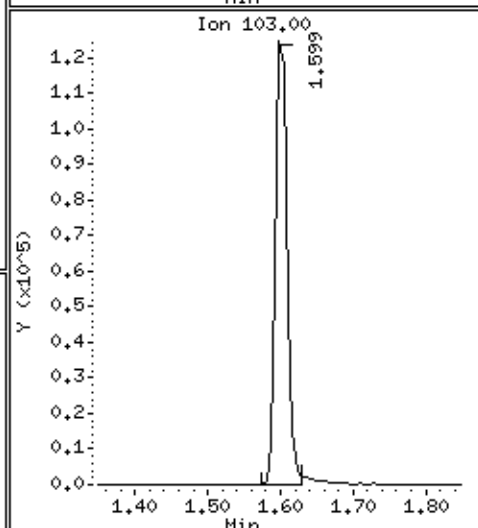
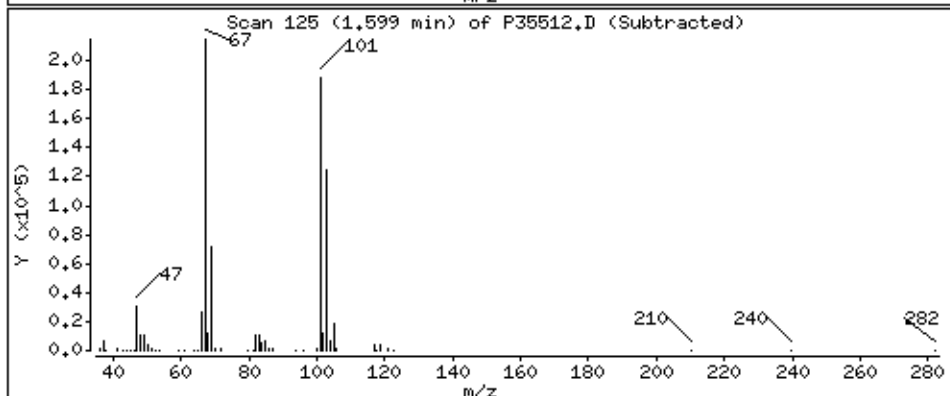
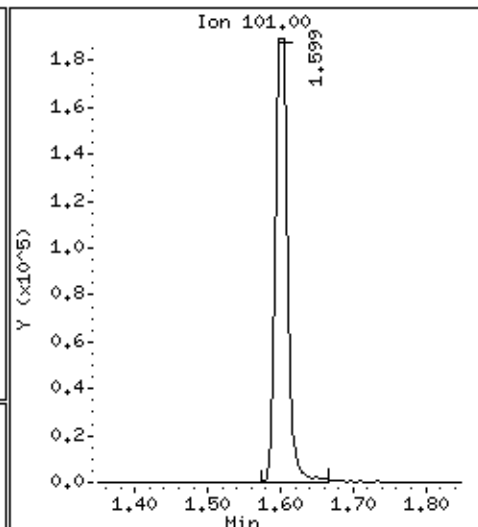
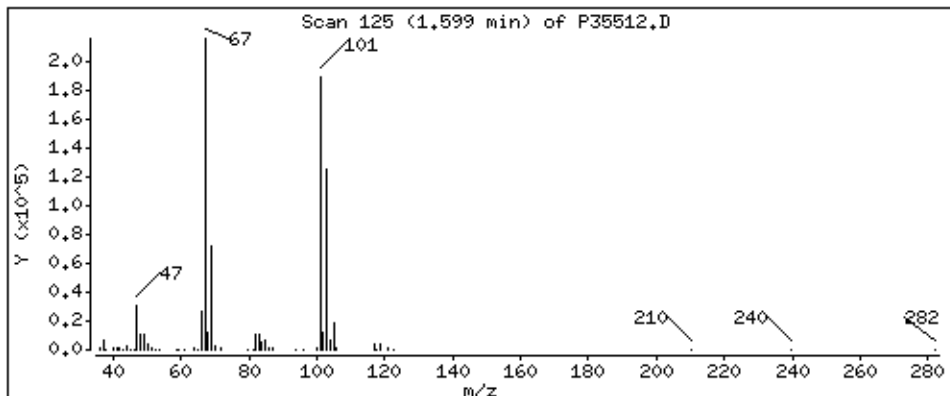
Column phase: RTX-624

Column diameter: 0.18

11 Trichlorofluoromethane

Concentration: 44.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

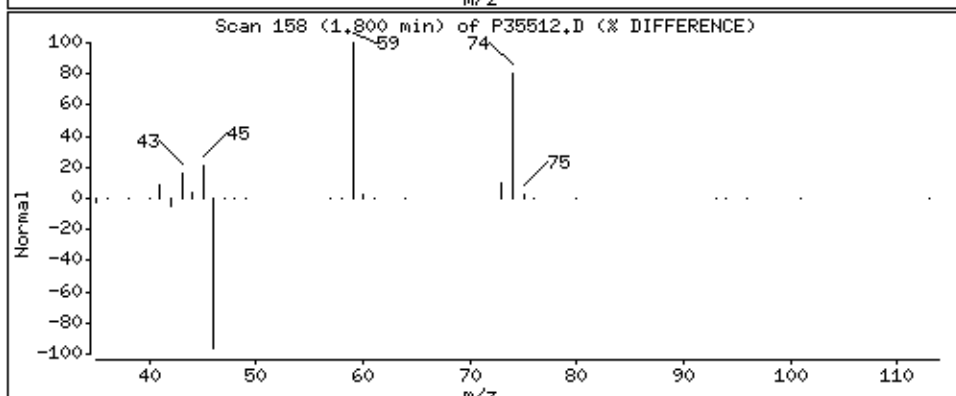
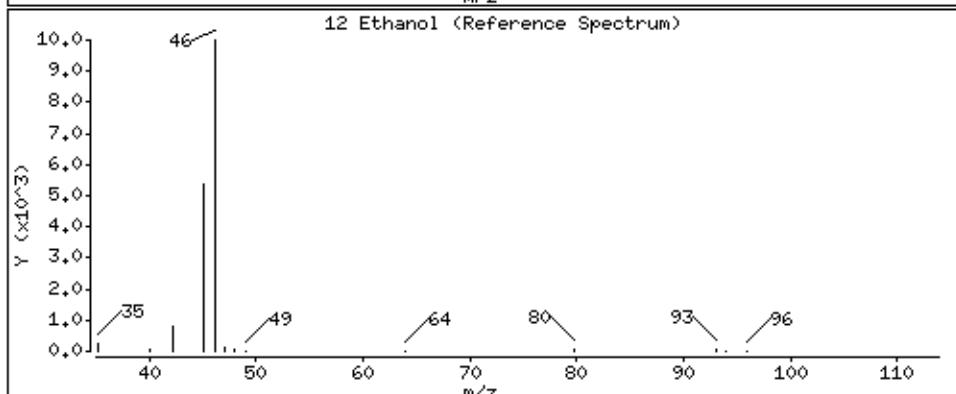
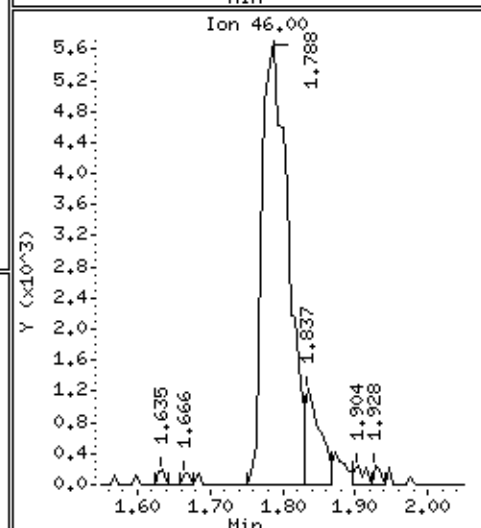
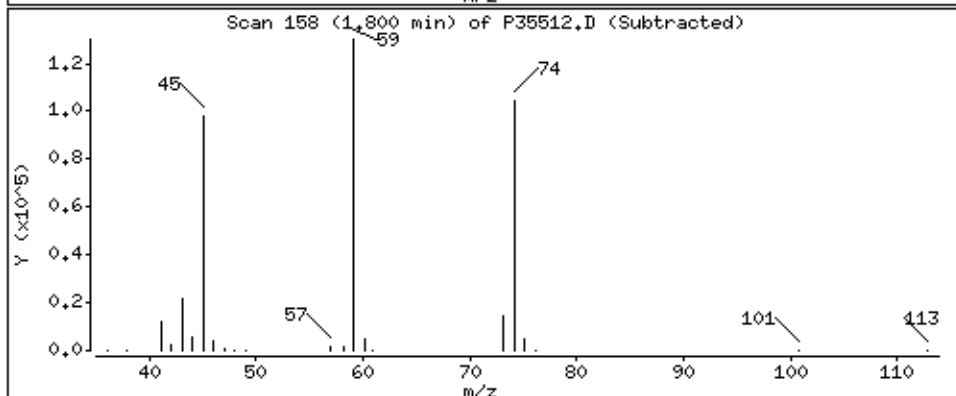
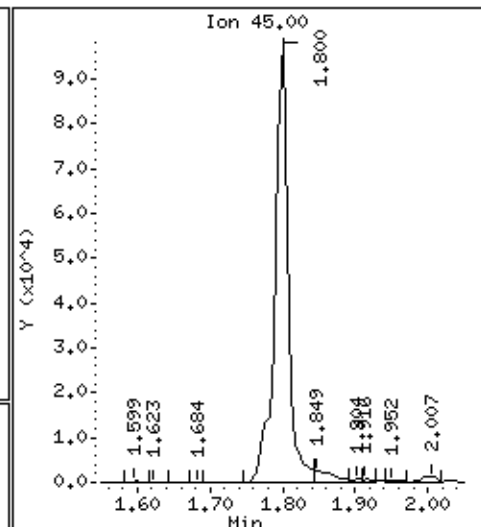
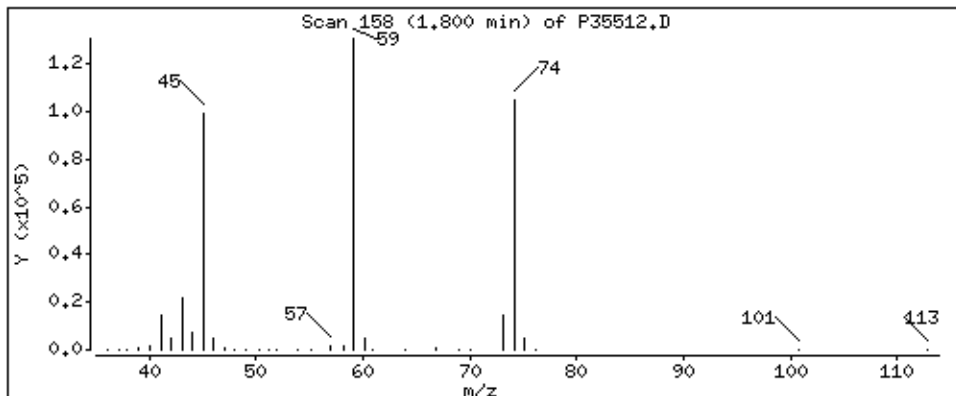
Column phase: RTX-624

Column diameter: 0.18

12 Ethanol

Concentration: 8040 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

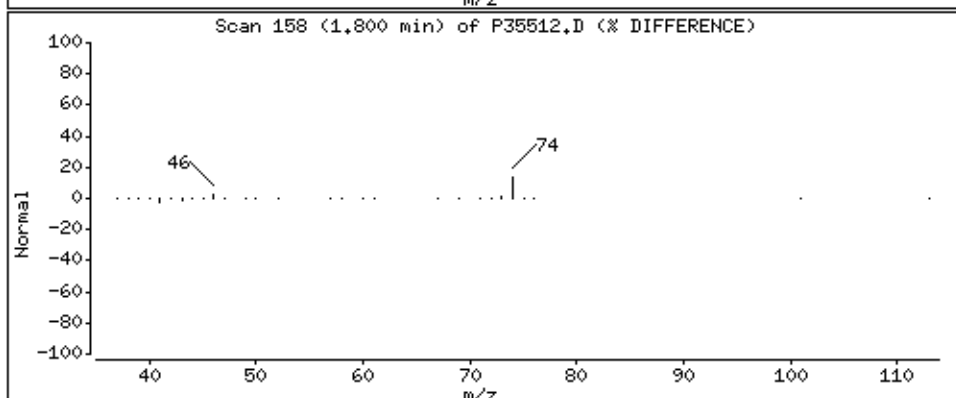
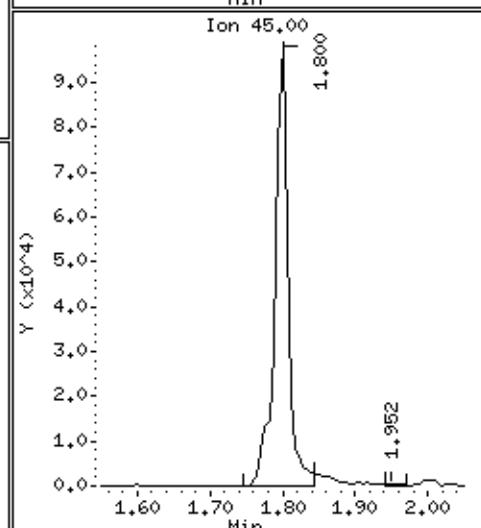
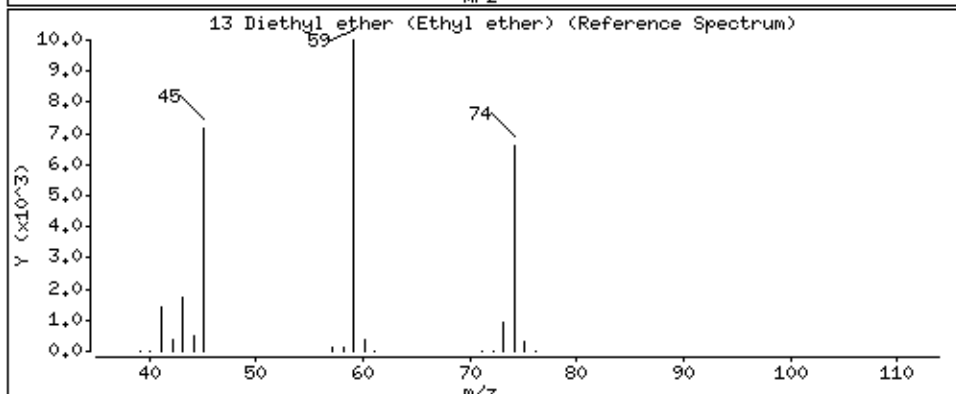
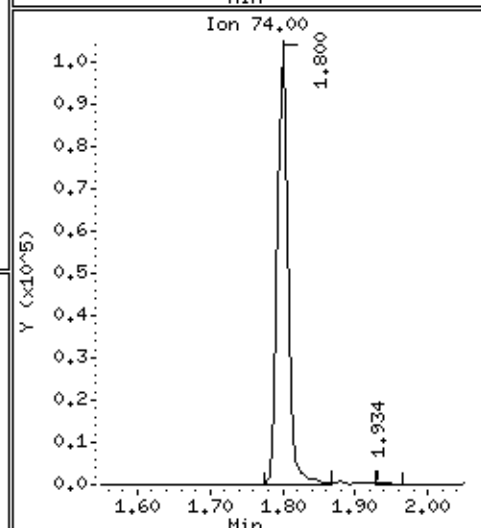
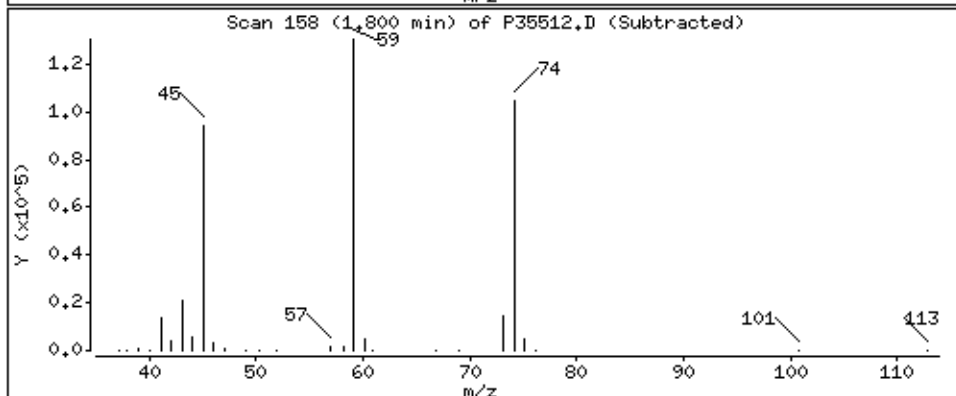
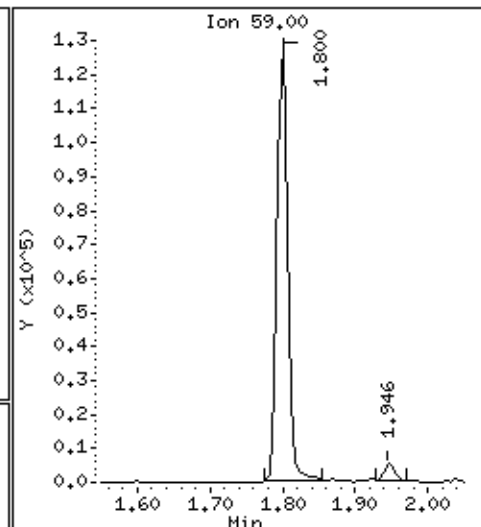
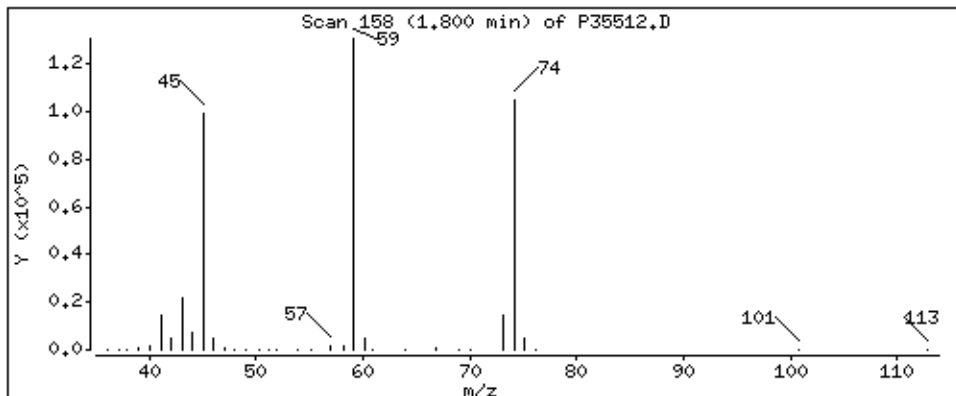
Column phase: RTX-624

Column diameter: 0.18

13 Diethyl ether (Ethyl ether)

Concentration: 45.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

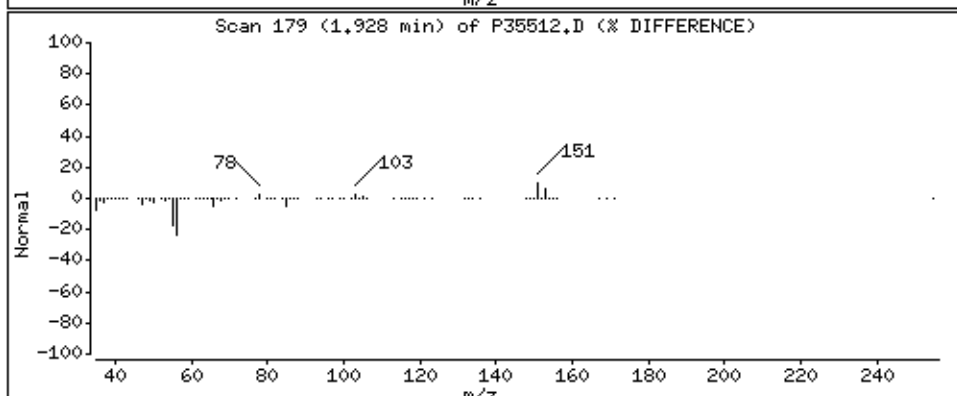
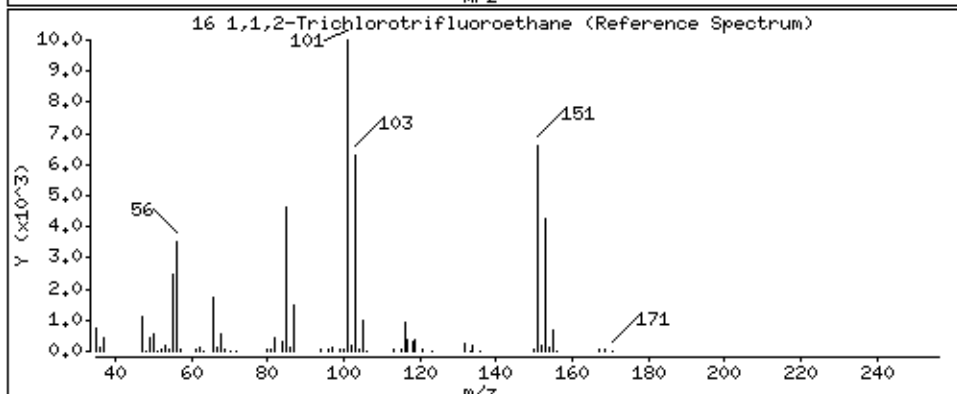
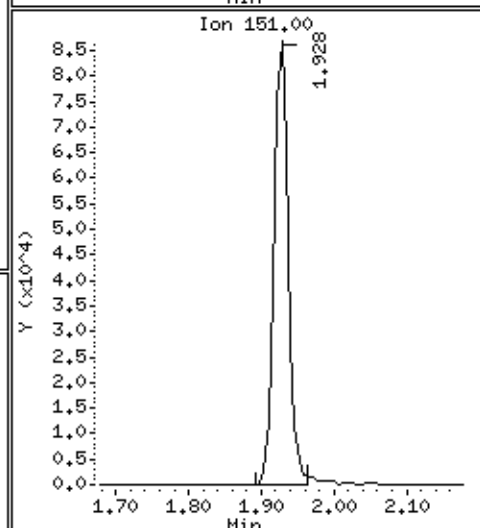
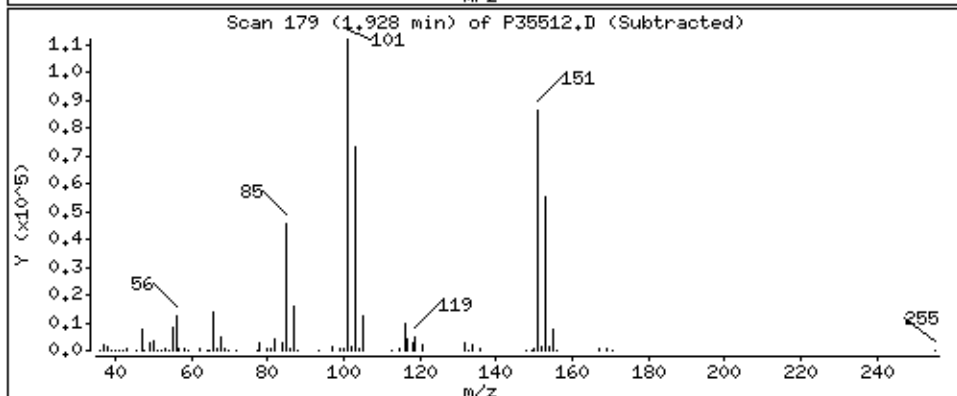
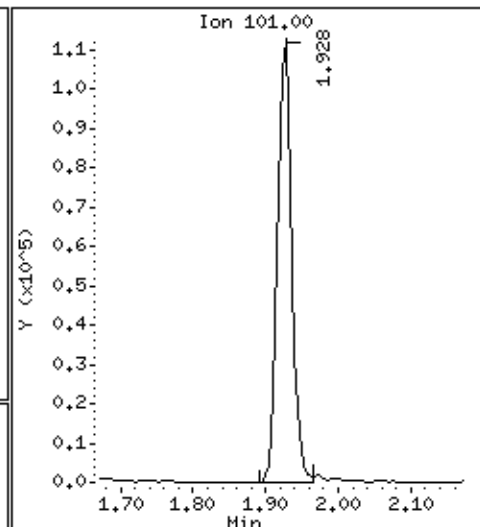
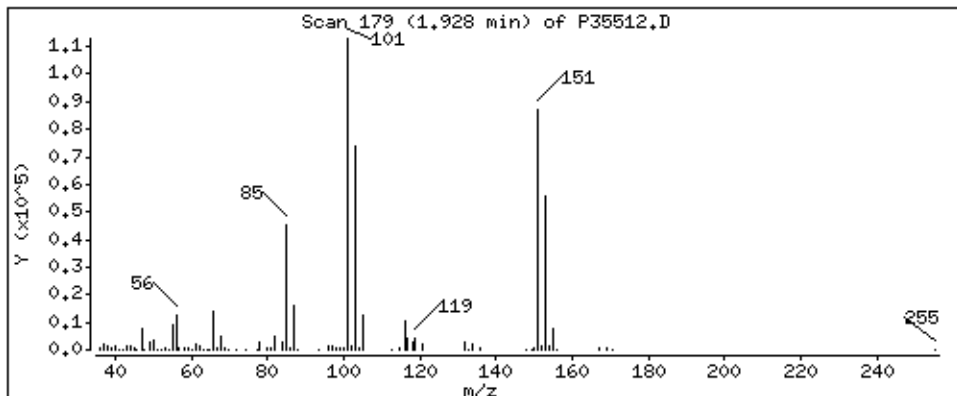
Column phase: RTX-624

Column diameter: 0,18

16 1,1,2-Trichlorotrifluoroethane

Concentration: 46,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

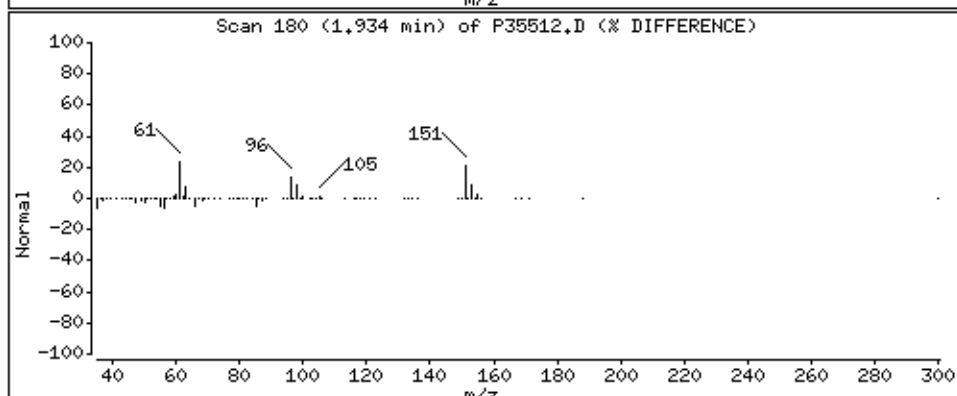
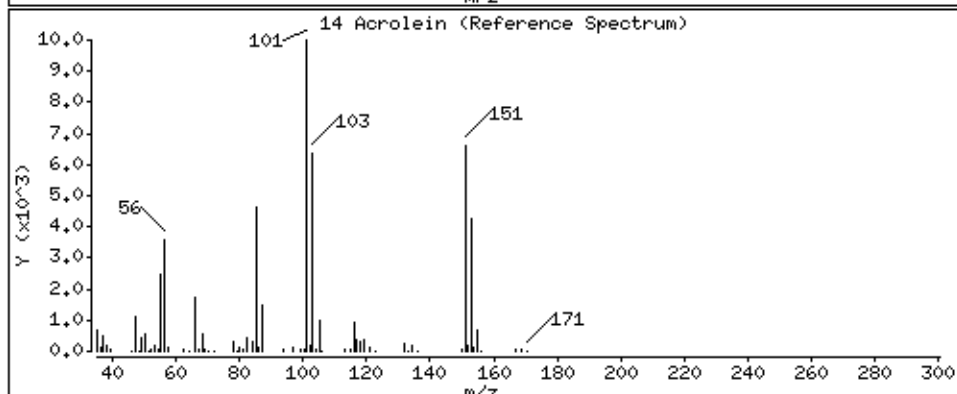
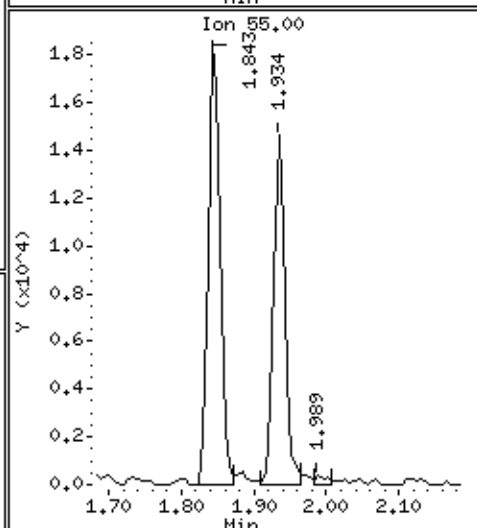
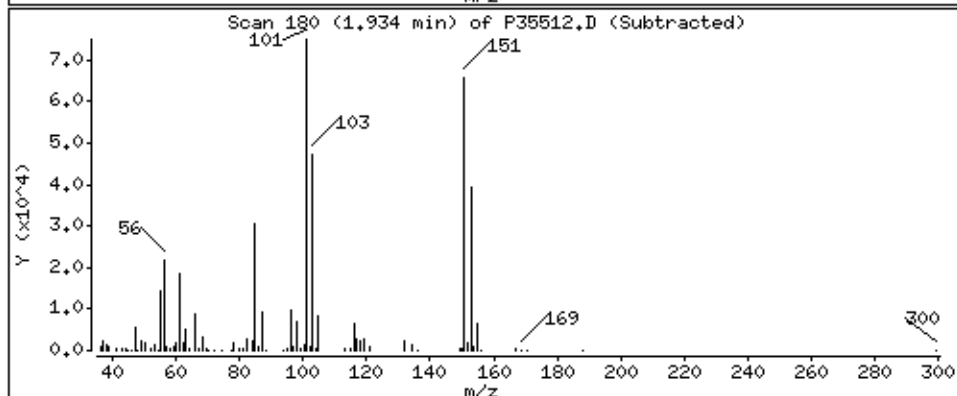
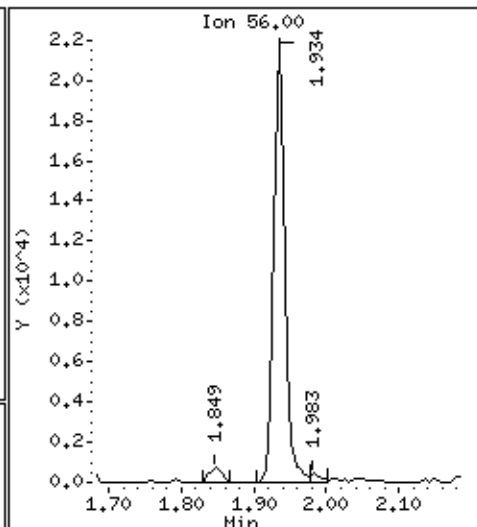
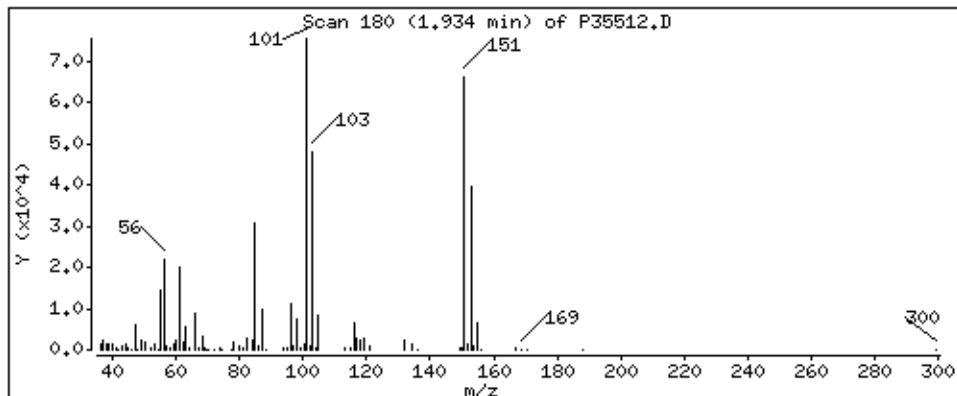
Column phase: RTX-624

Column diameter: 0.18

14 Acrolein

Concentration: 62.2 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

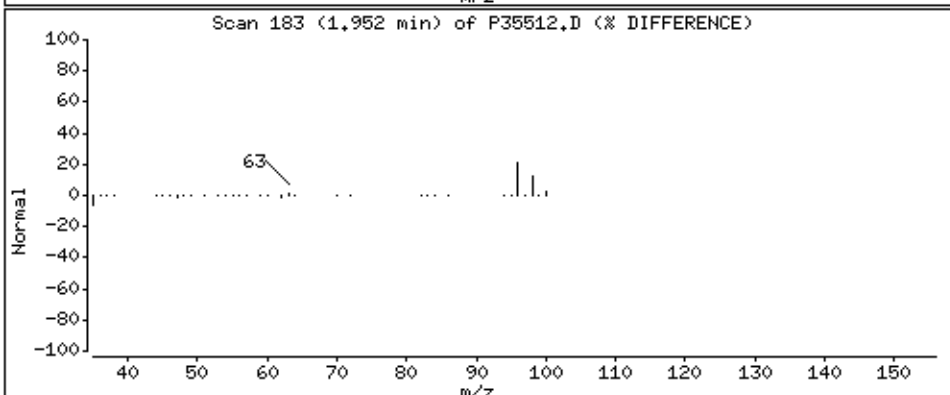
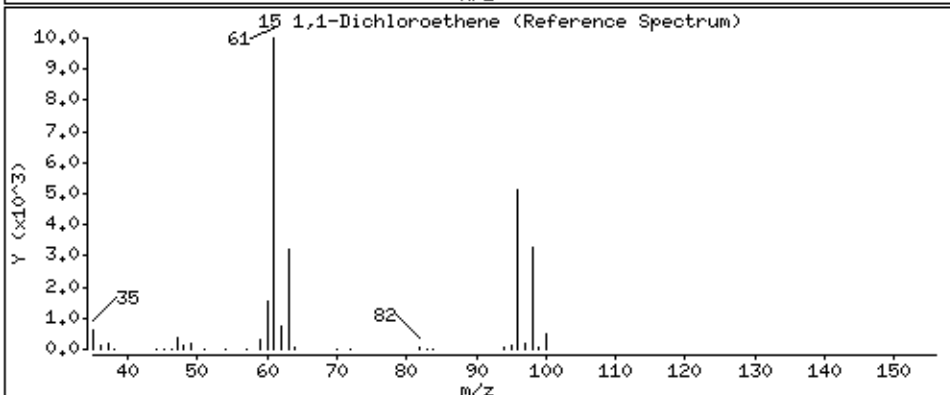
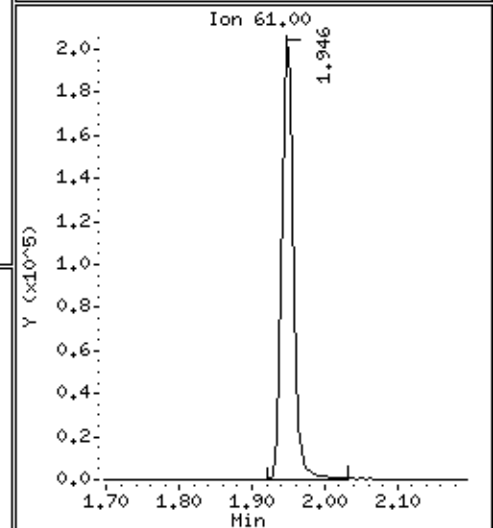
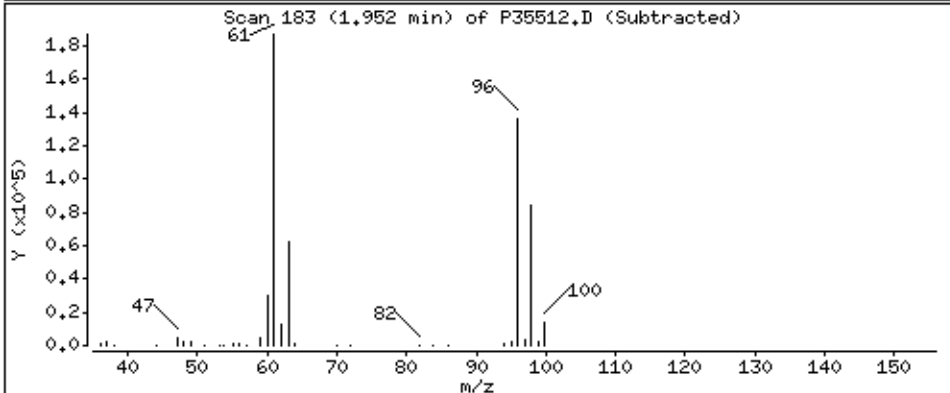
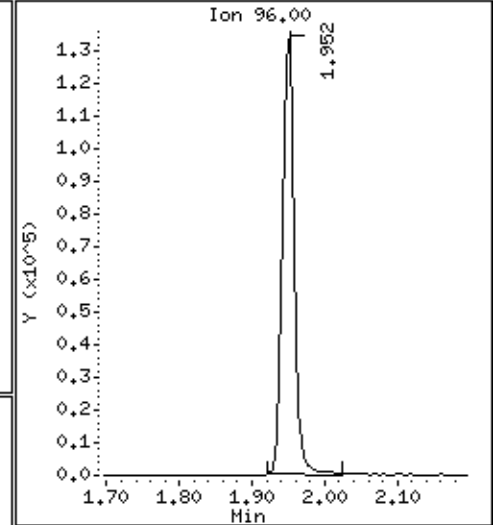
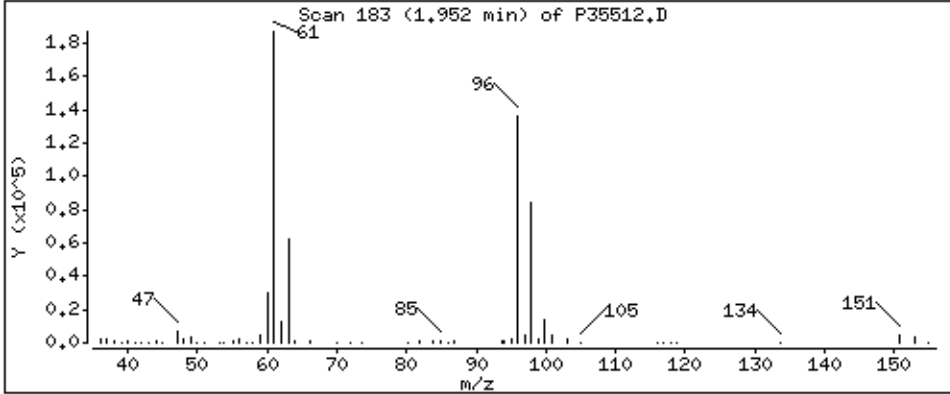
Column phase: RTX-624

Column diameter: 0.18

15 1,1-Dichloroethene

Concentration: 54.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

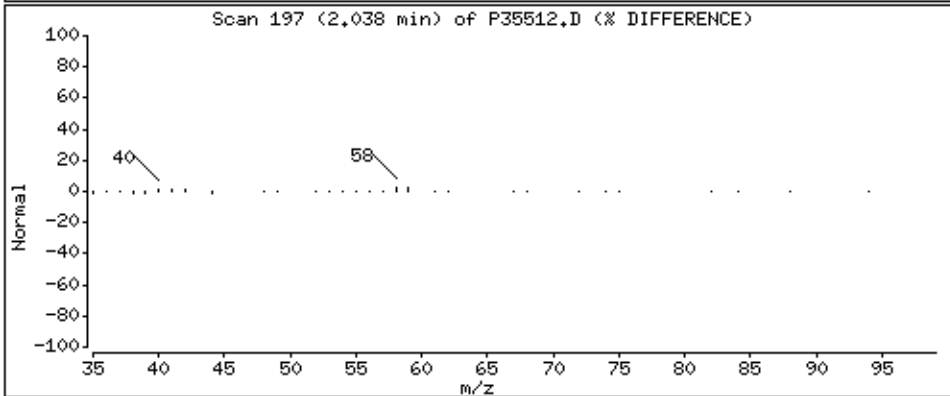
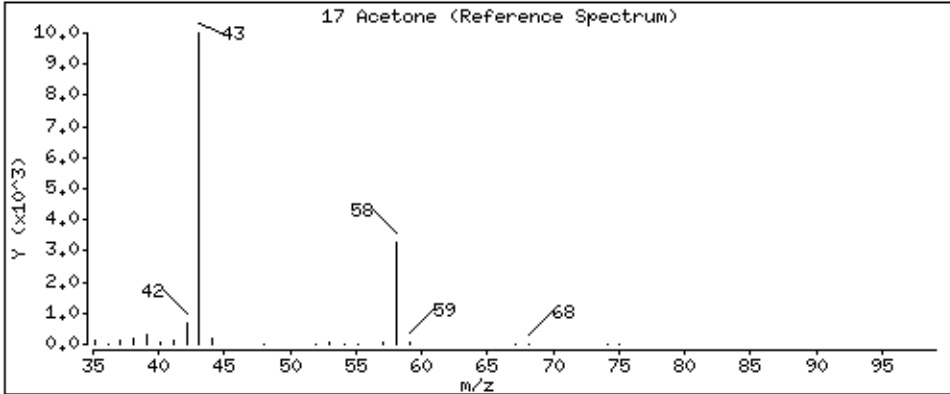
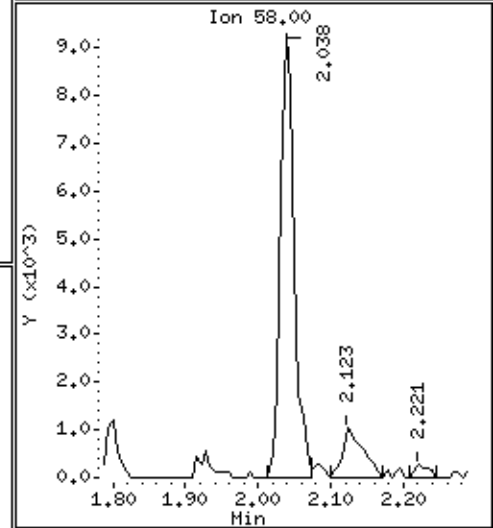
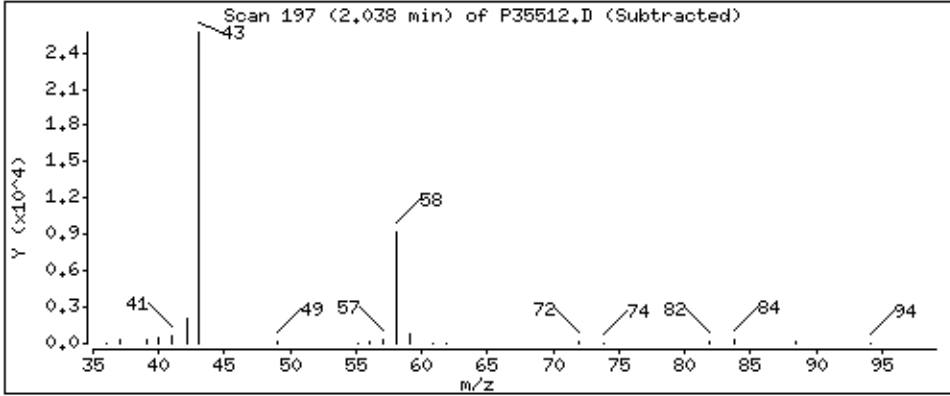
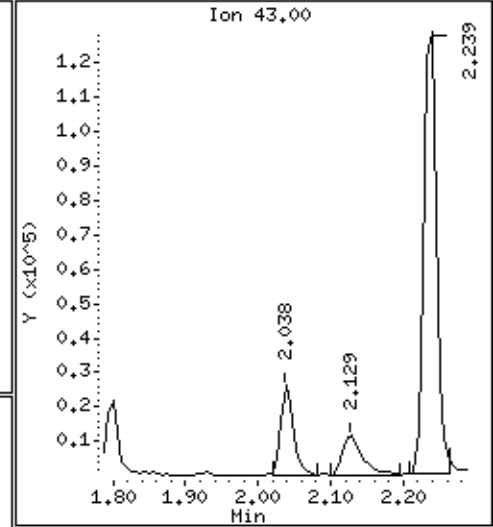
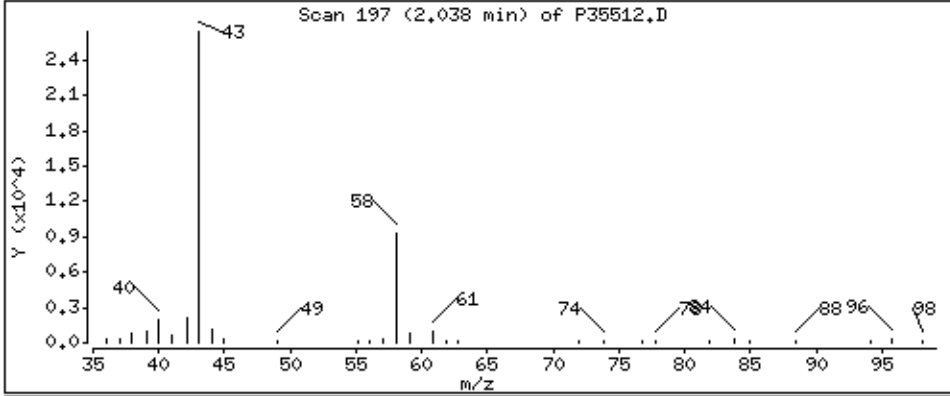
Column phase: RTX-624

Column diameter: 0.18

17 Acetone

Concentration: 29.6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

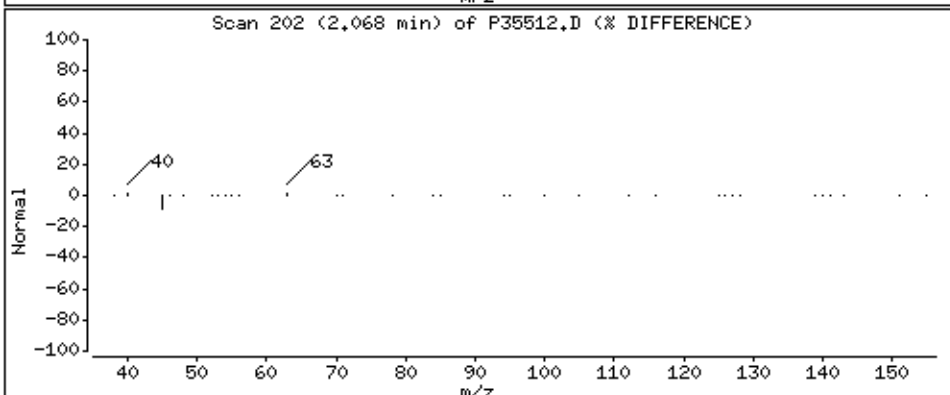
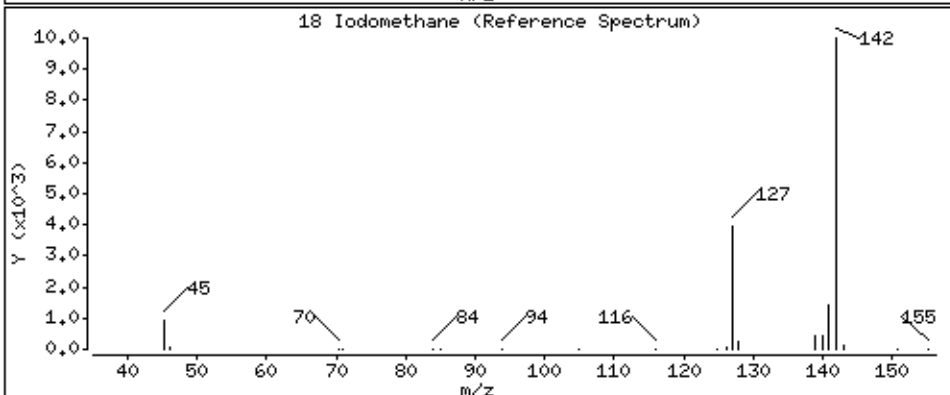
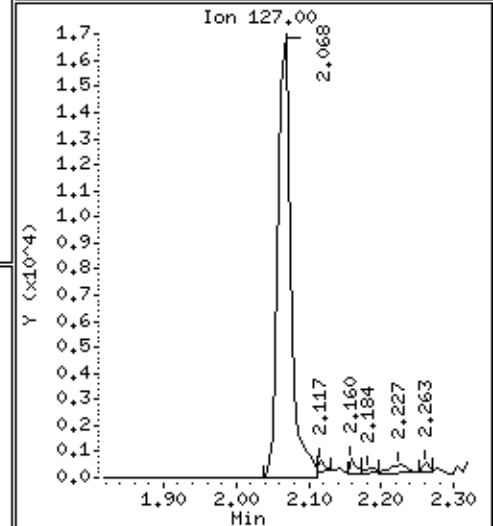
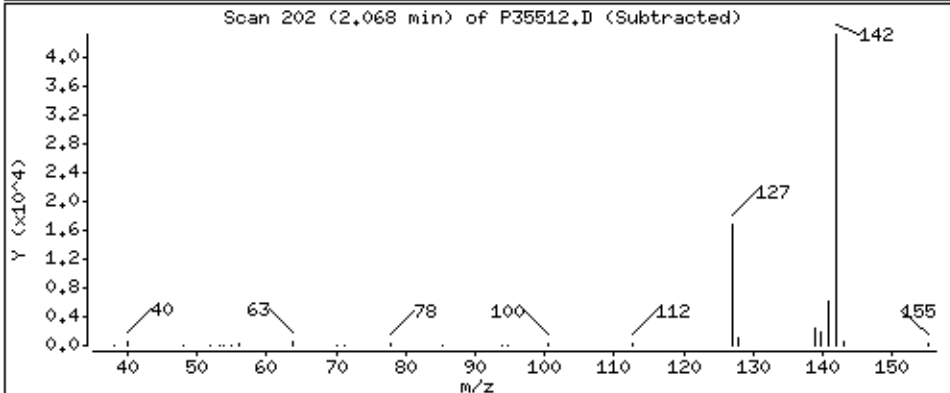
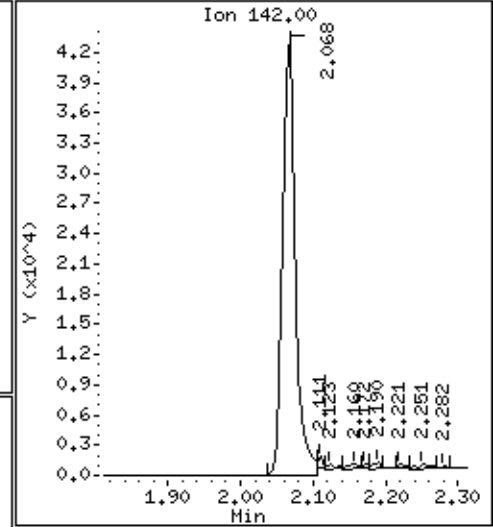
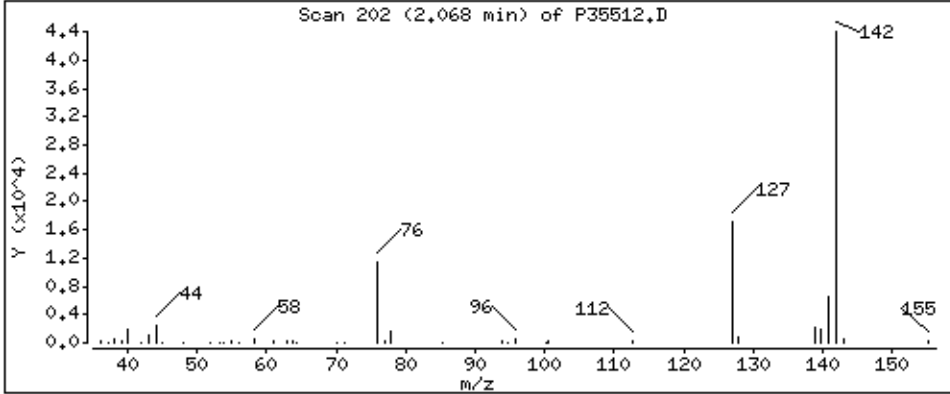
Column phase: RTX-624

Column diameter: 0,18

18 Iodomethane

Concentration: 33,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

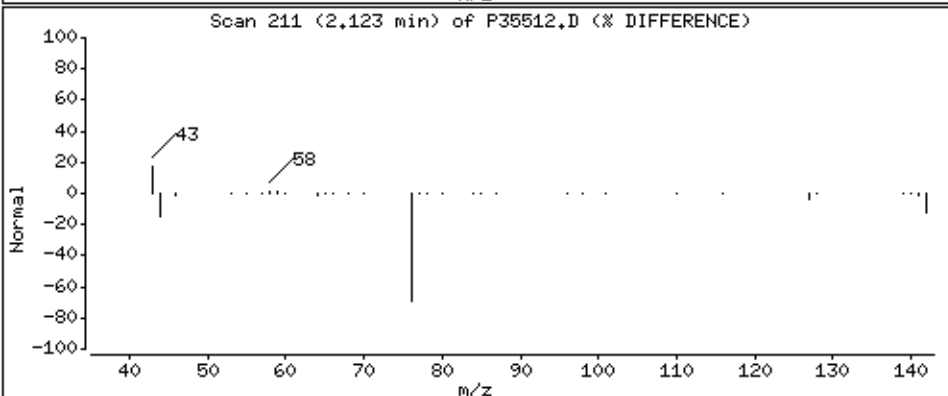
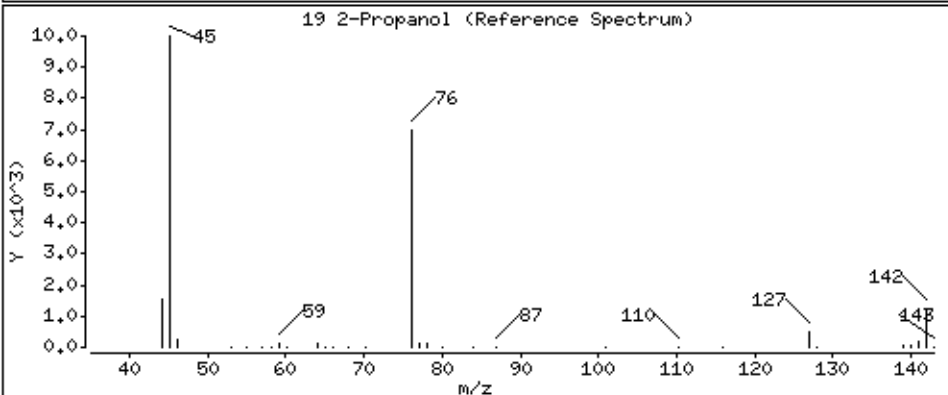
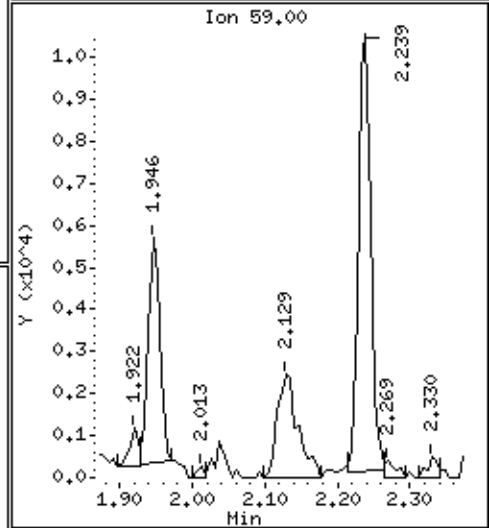
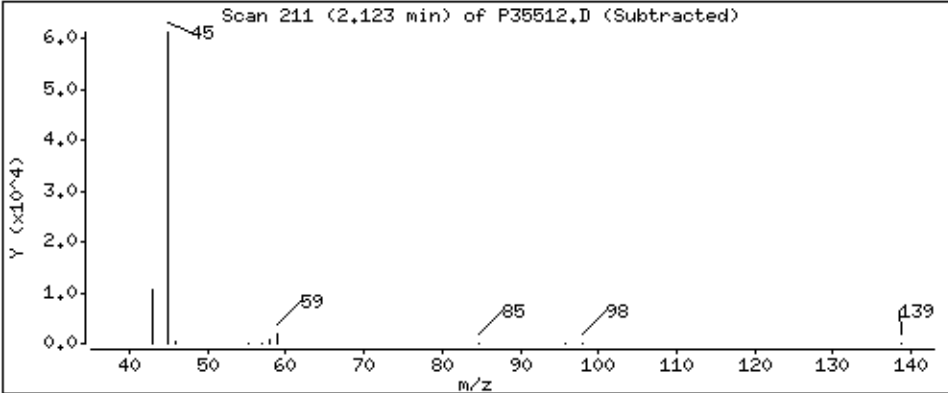
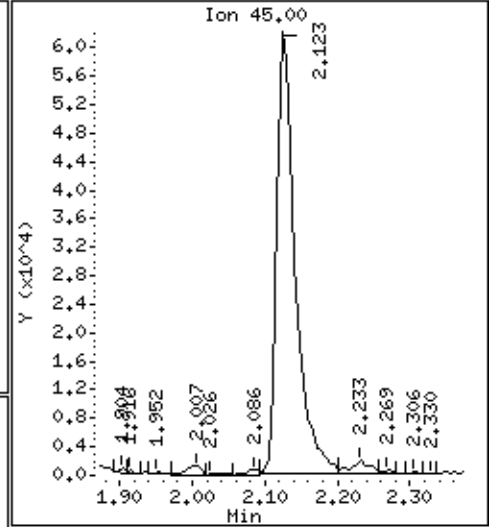
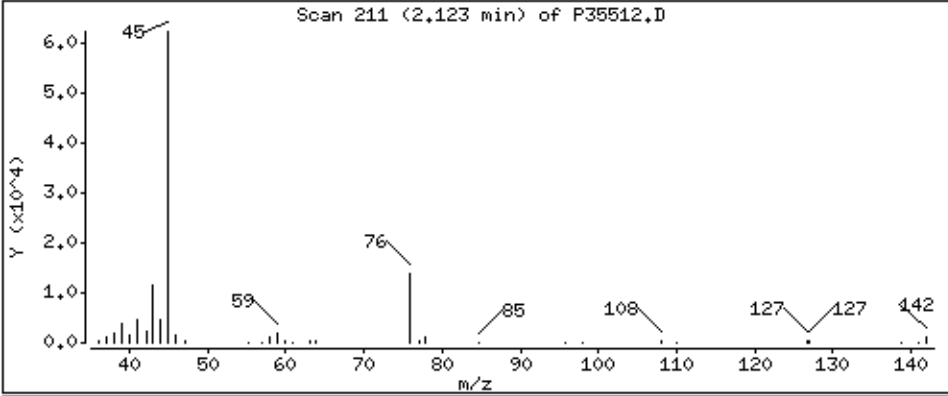
Column phase: RTX-624

Column diameter: 0,18

19 2-Propanol

Concentration: 1050 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

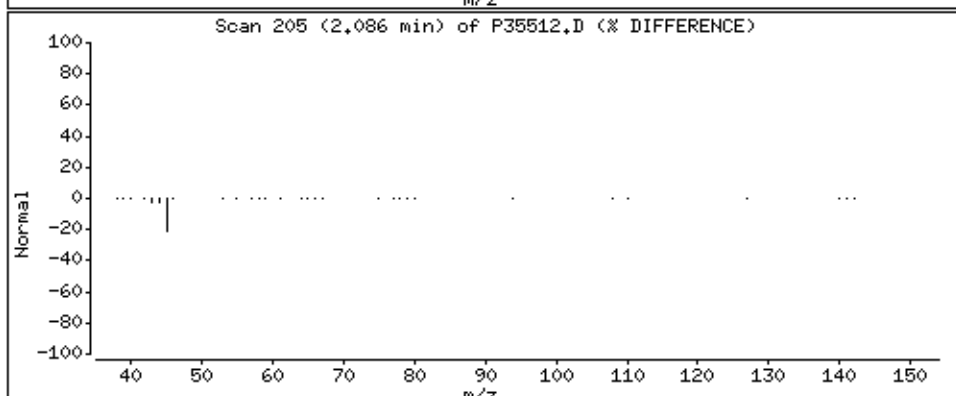
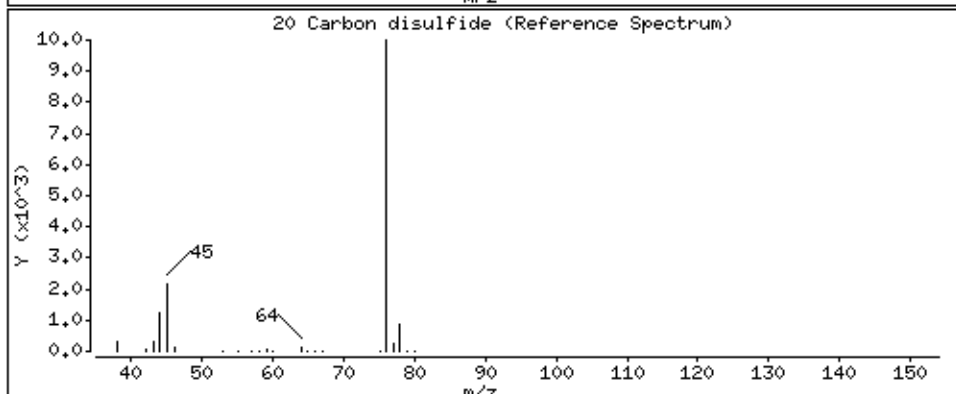
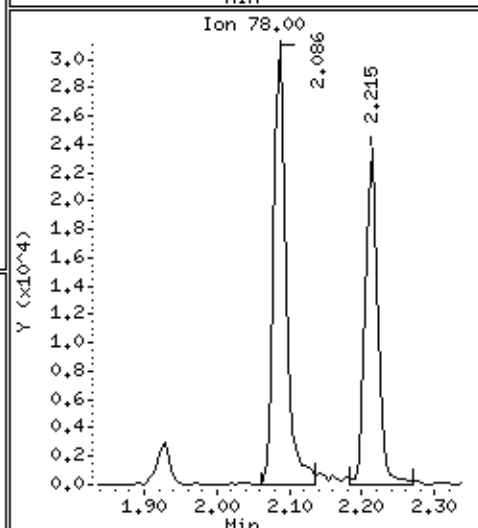
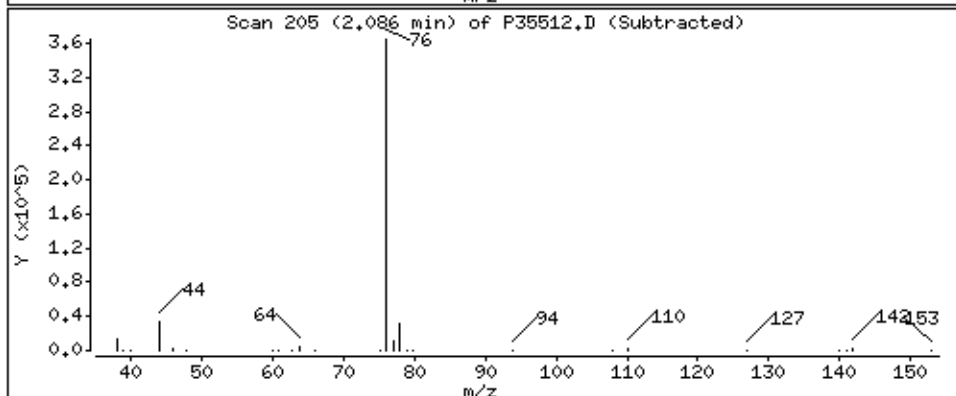
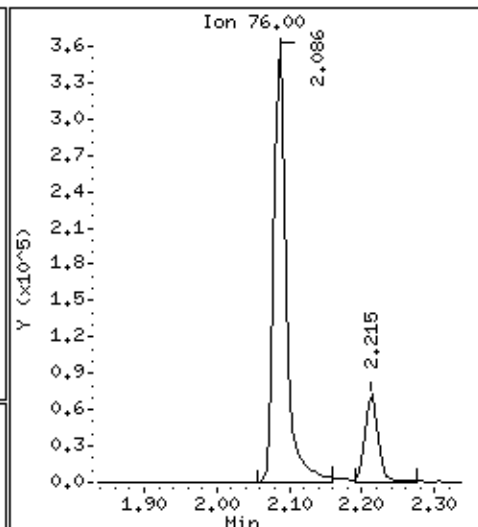
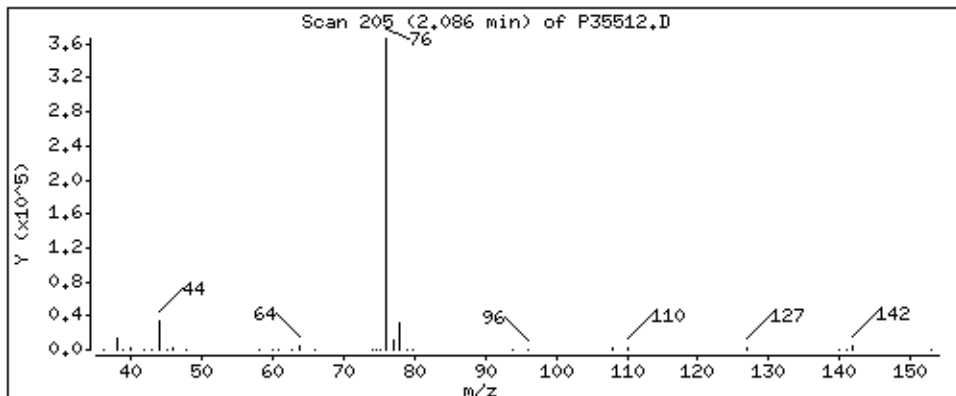
Column phase: RTX-624

Column diameter: 0,18

20 Carbon disulfide

Concentration: 44,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

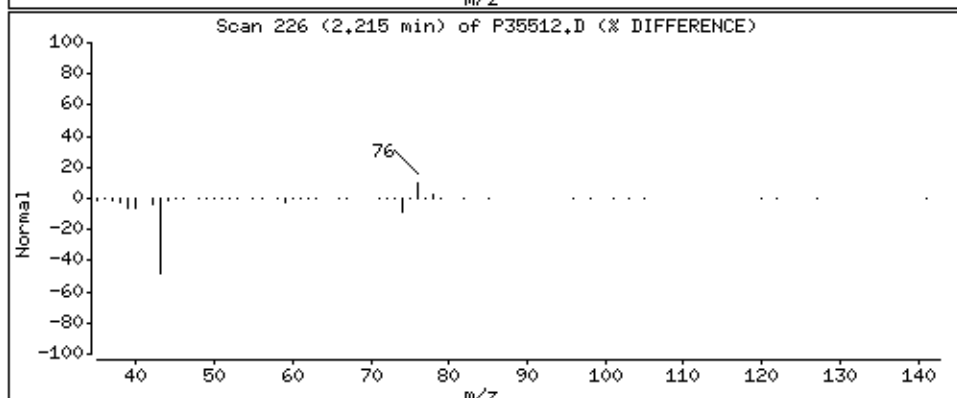
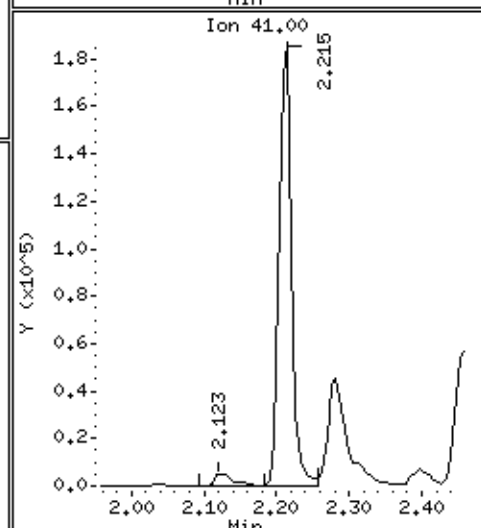
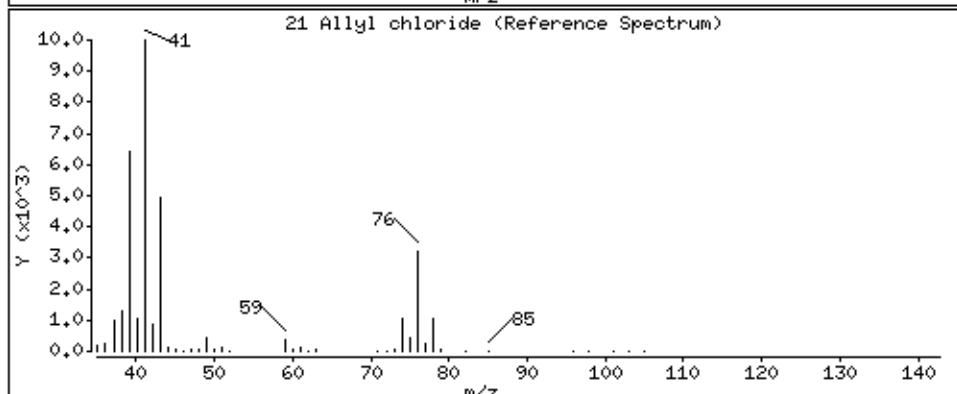
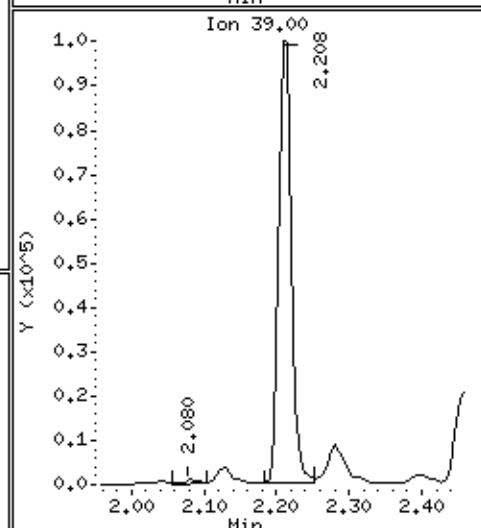
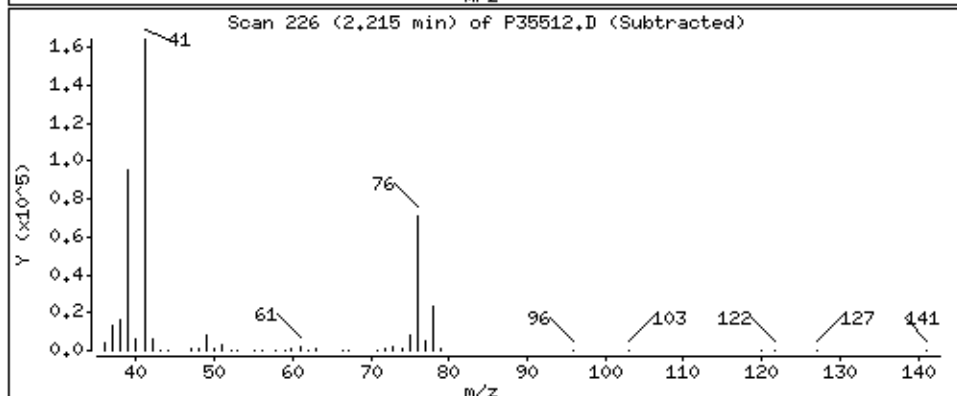
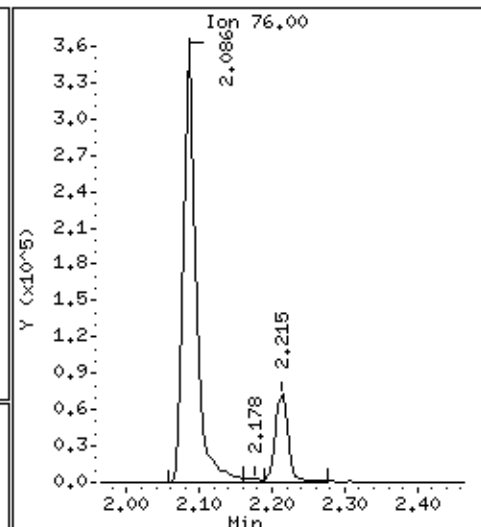
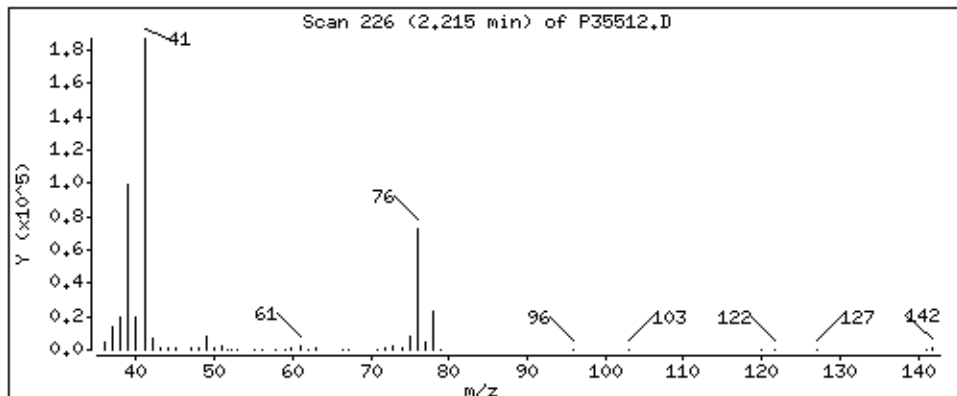
Column phase: RTX-624

Column diameter: 0,18

21 Allyl chloride

Concentration: 45,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

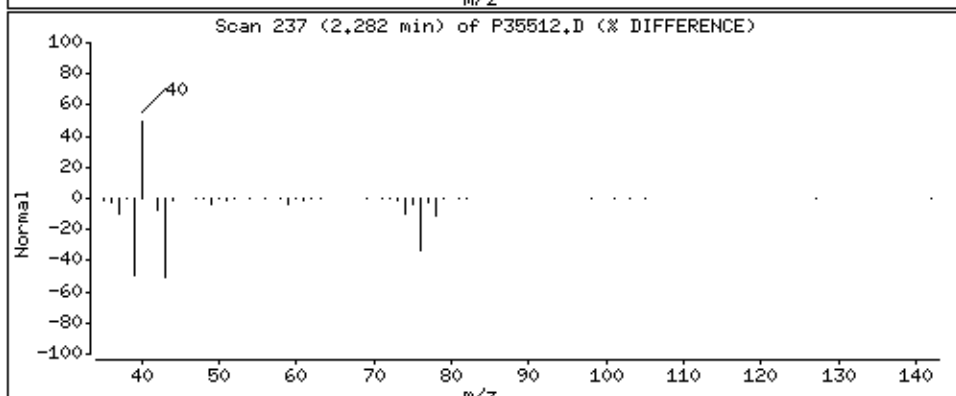
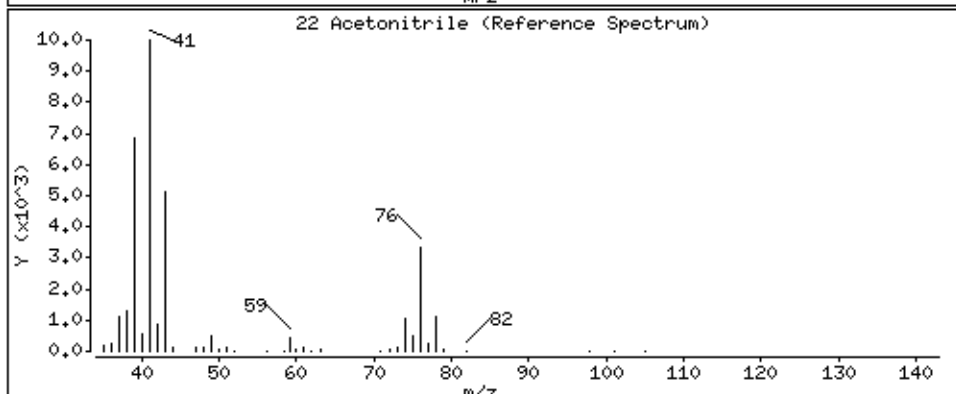
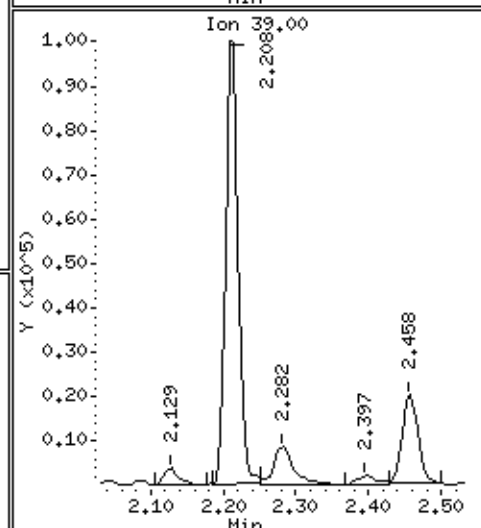
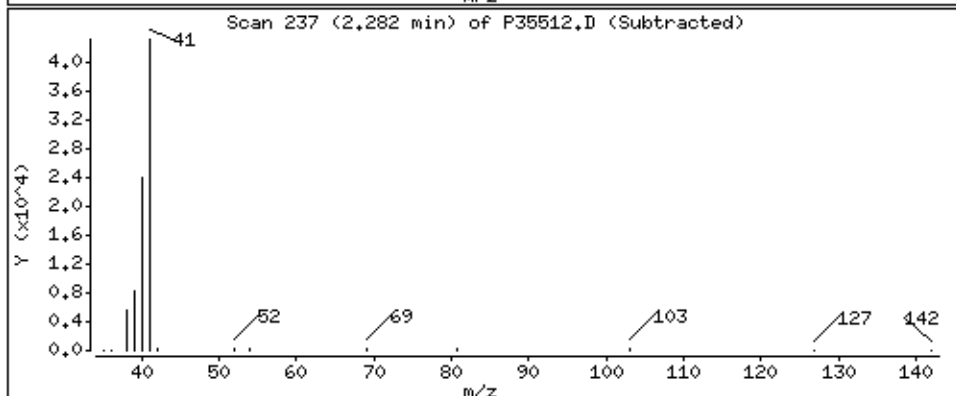
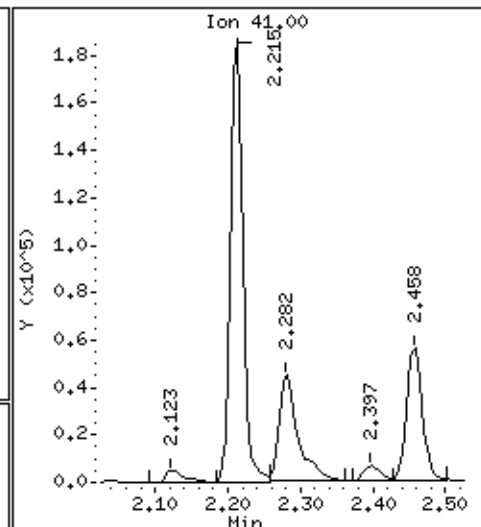
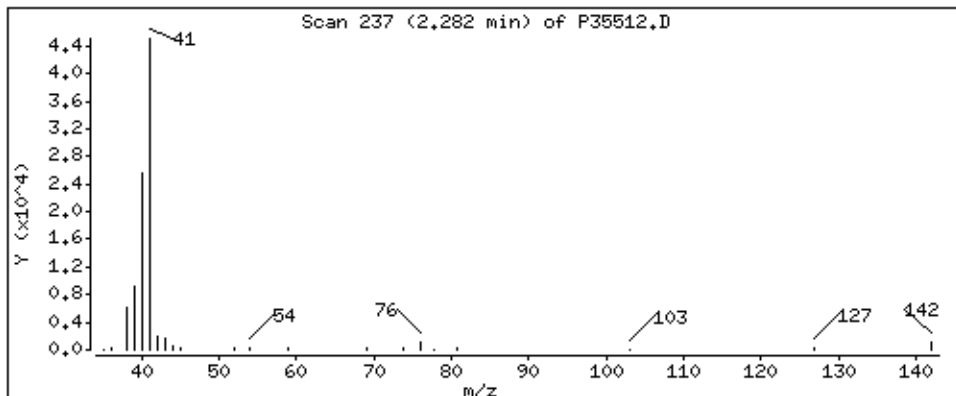
Column phase: RTX-624

Column diameter: 0.18

22 Acetonitrile

Concentration: 216 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

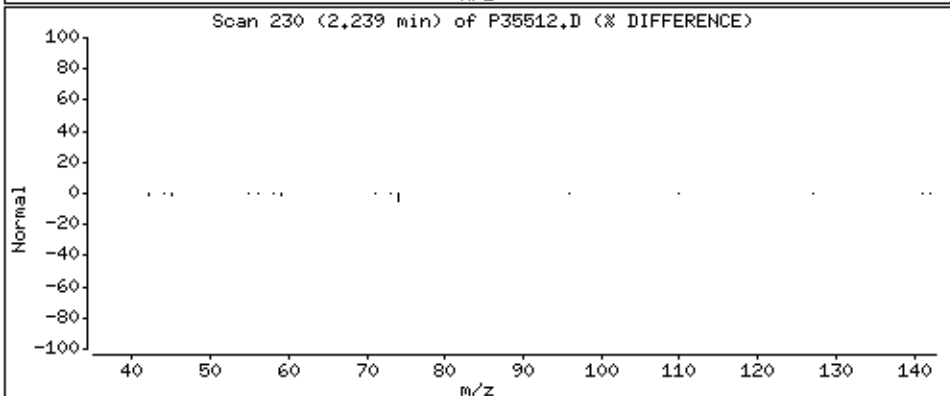
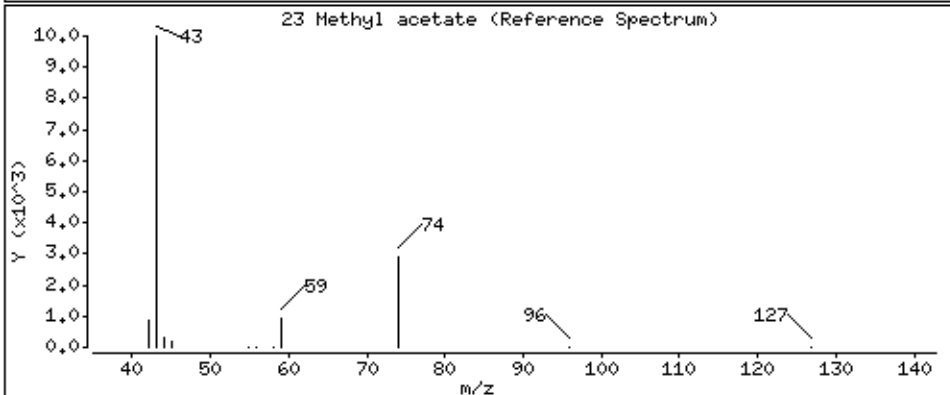
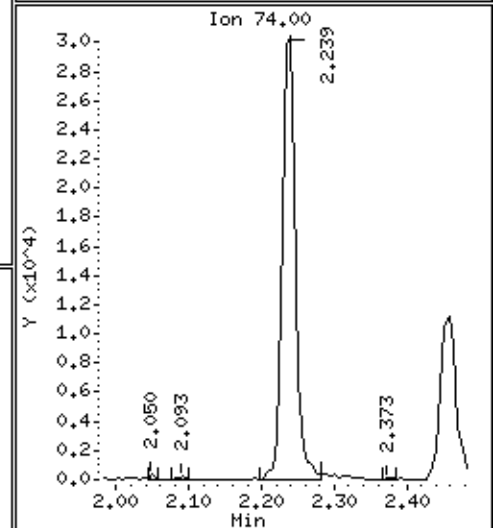
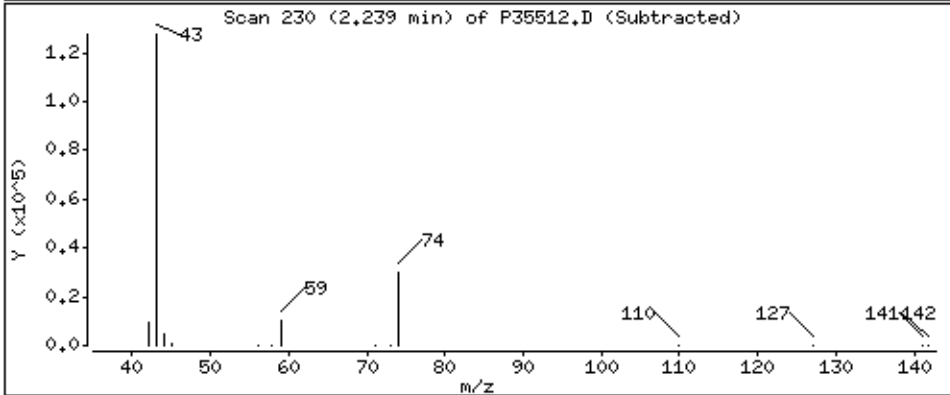
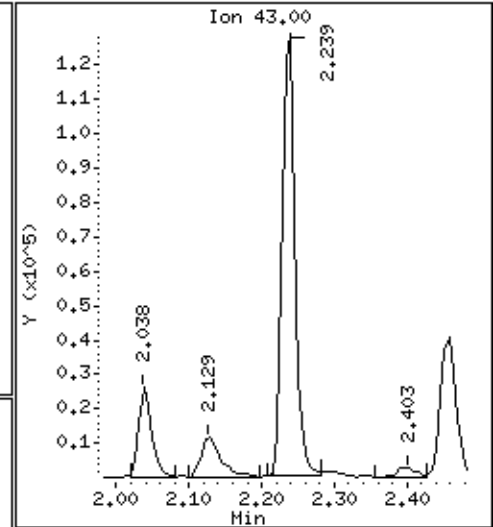
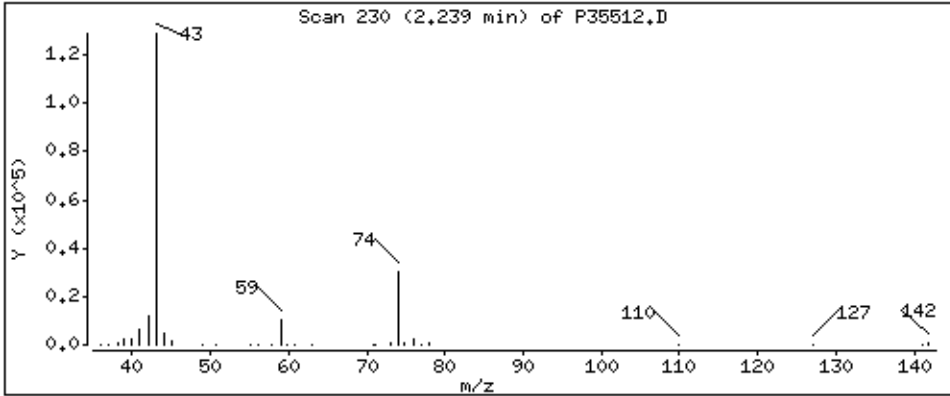
Column phase: RTX-624

Column diameter: 0,18

23 Methyl acetate

Concentration: 34,1 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1,25

Purge Volume: 5.0

Operator: KGG

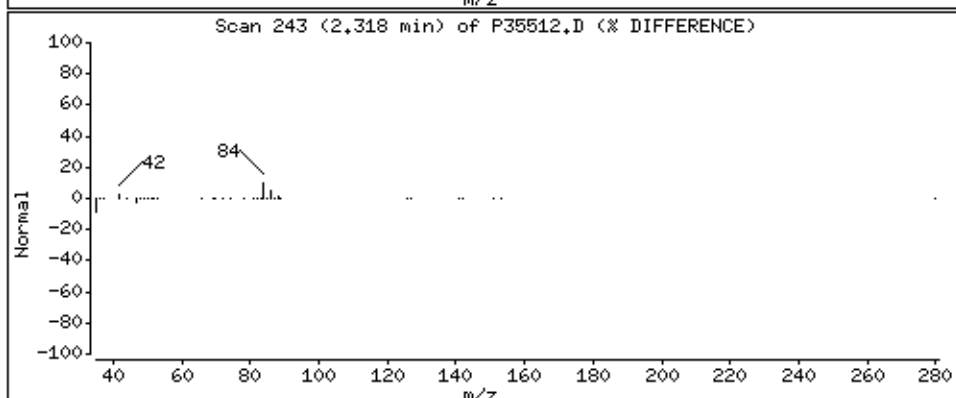
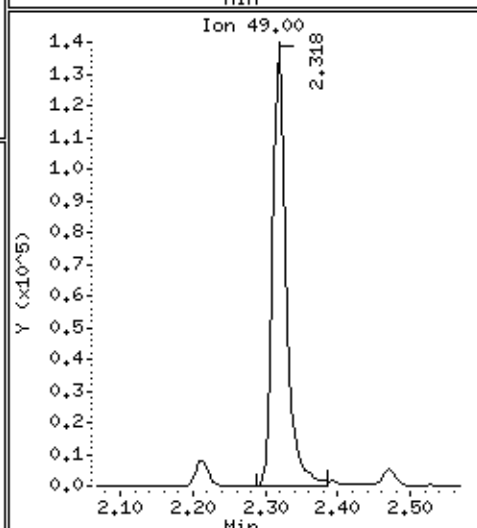
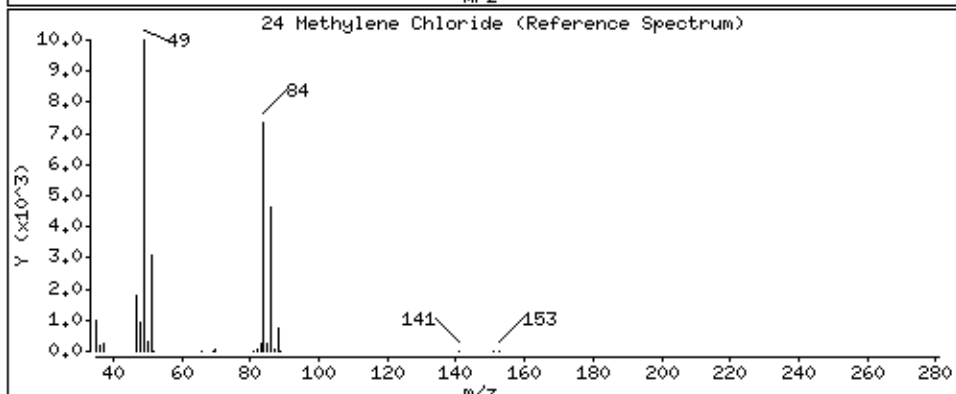
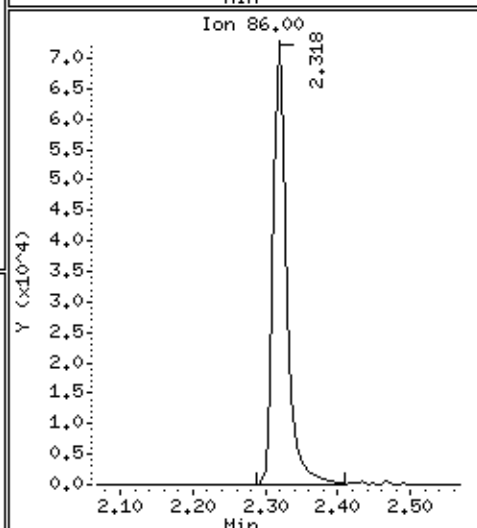
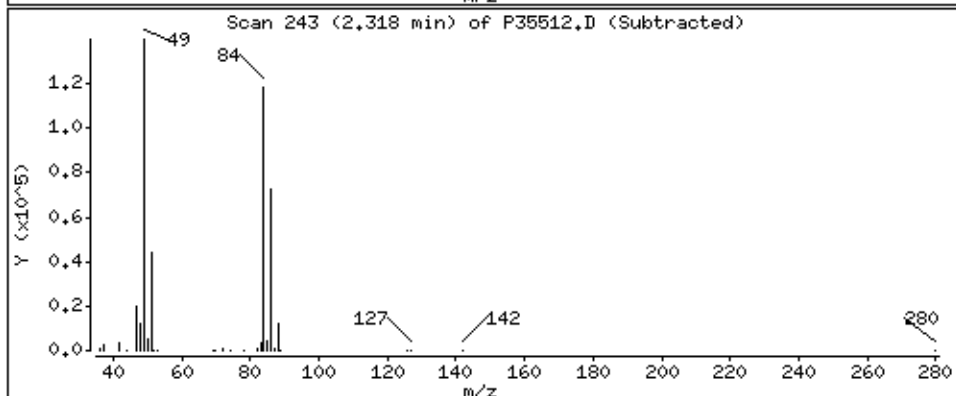
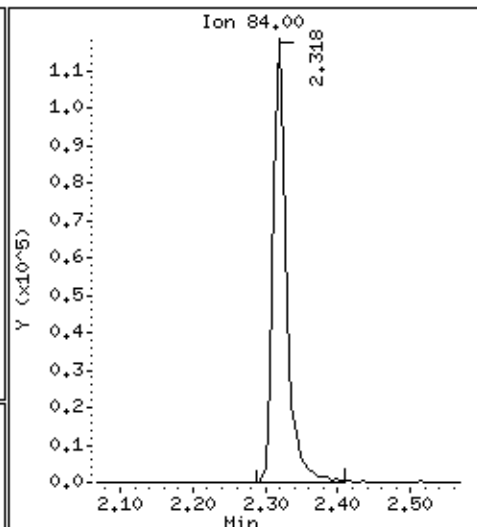
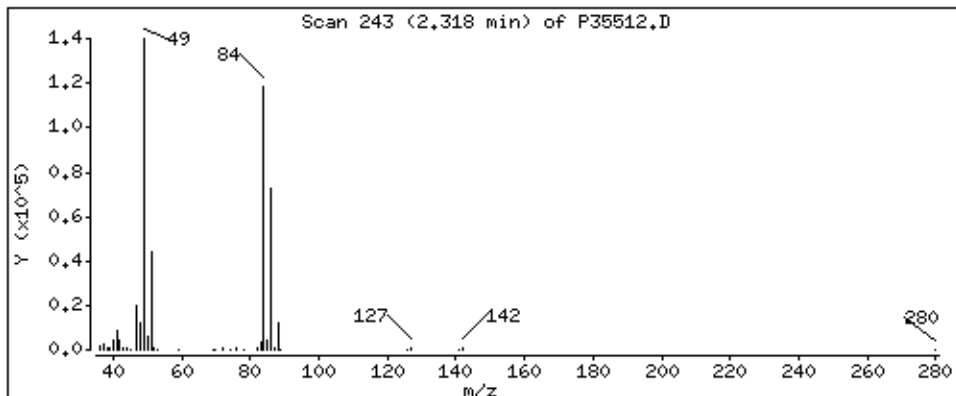
Column phase: RTX-624

Column diameter: 0,18

24 Methylene Chloride

Concentration: 44,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

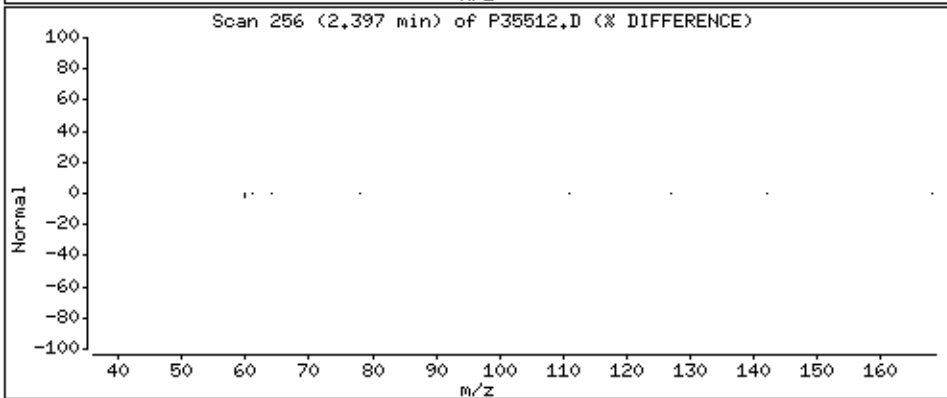
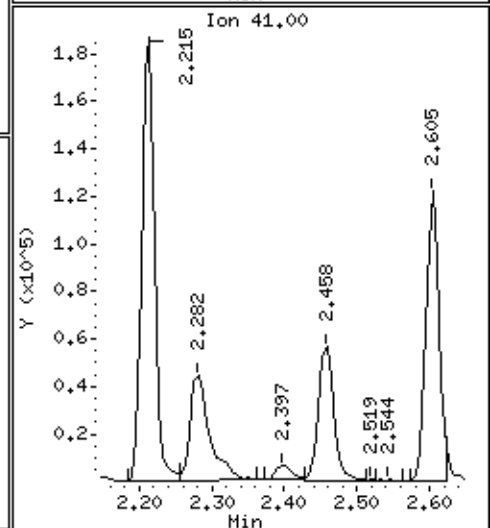
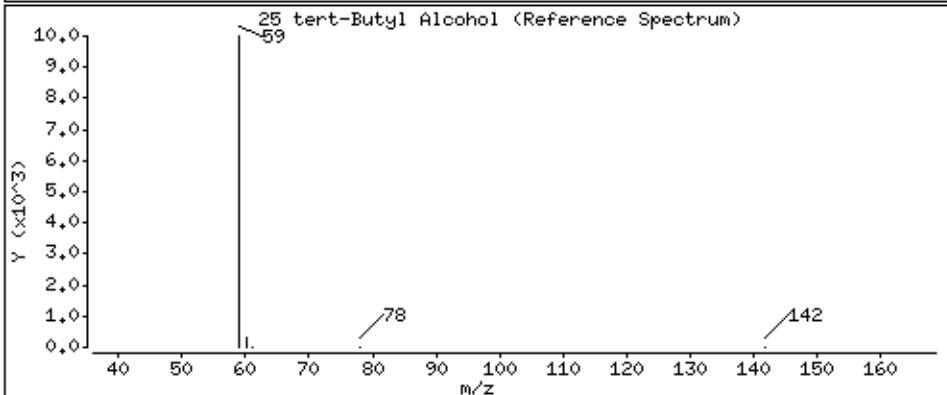
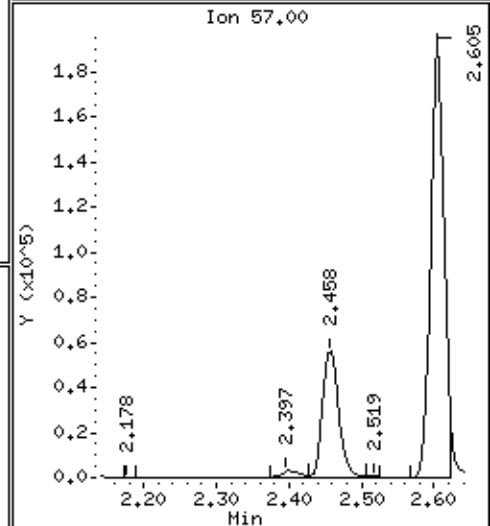
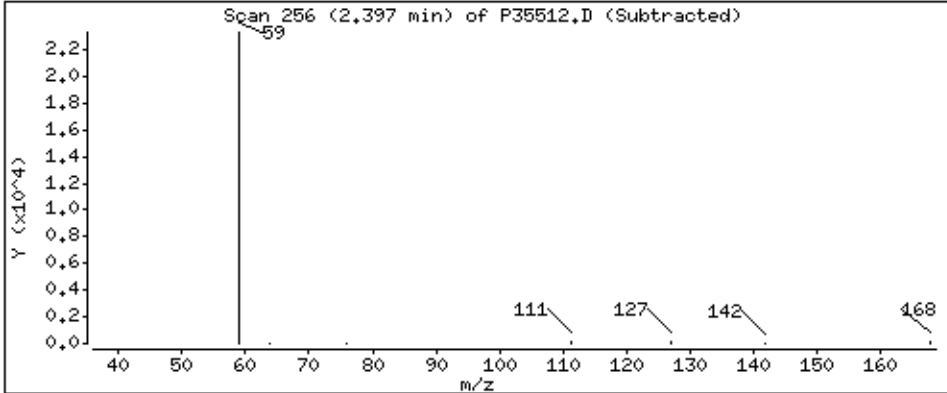
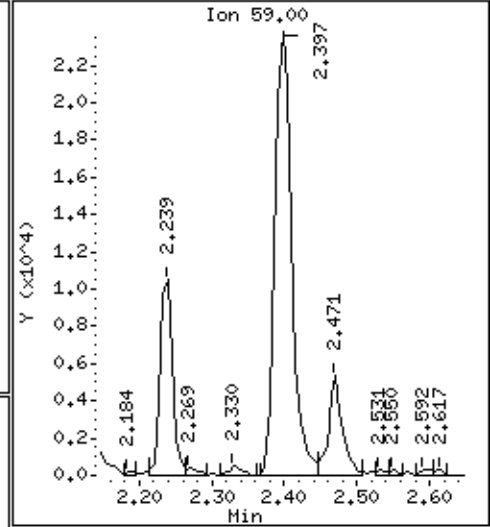
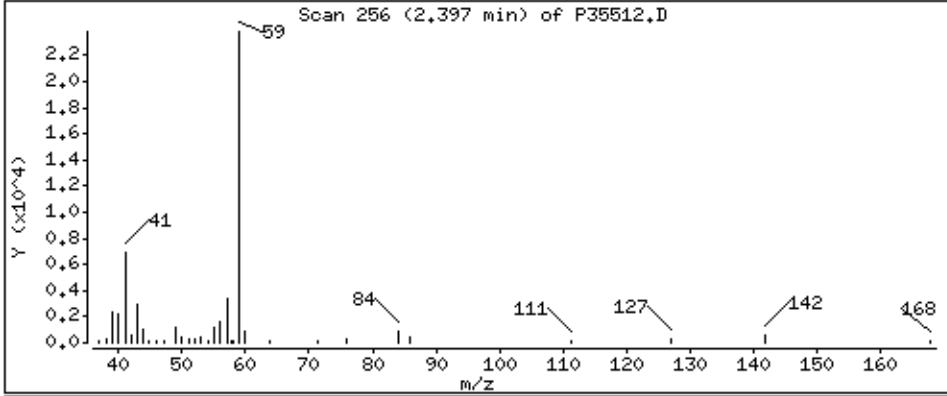
Column phase: RTX-624

Column diameter: 0.18

25 tert-Butyl Alcohol

Concentration: 227 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

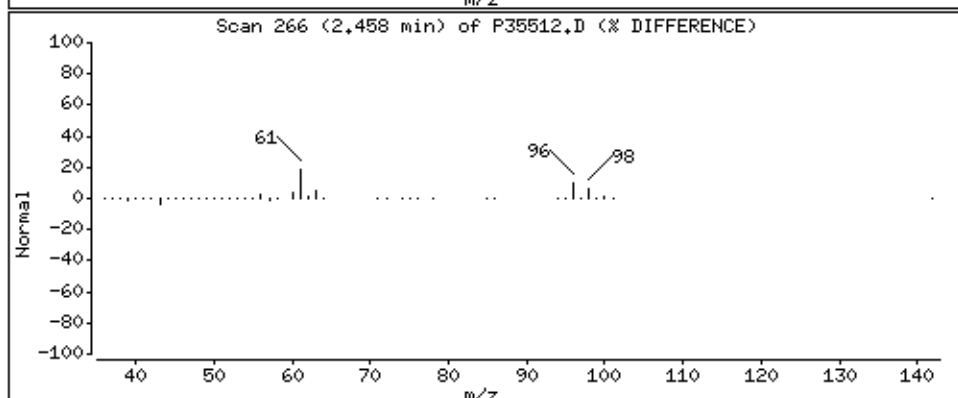
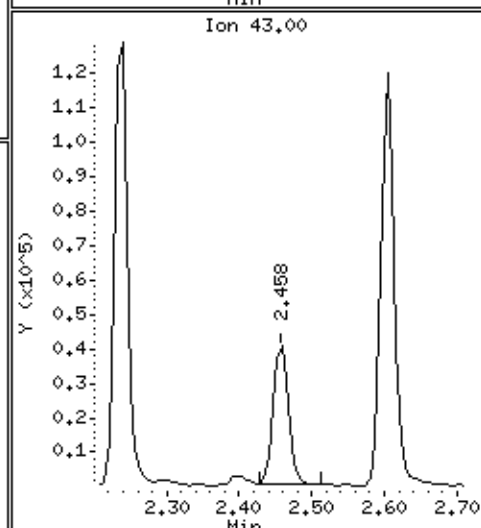
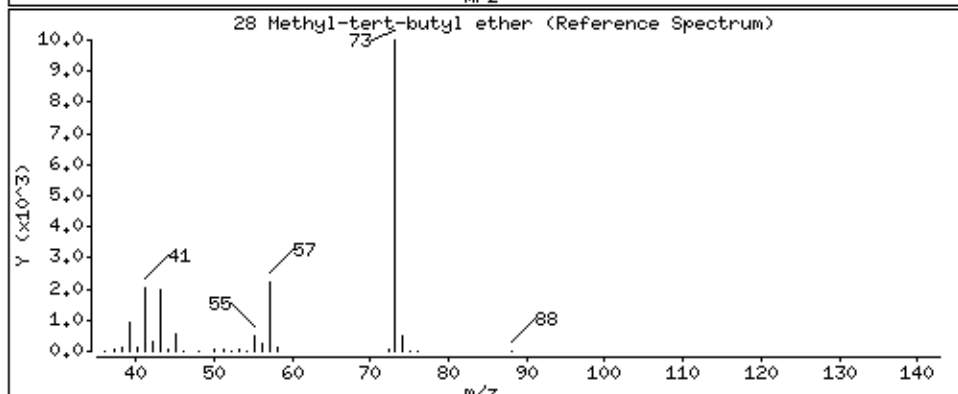
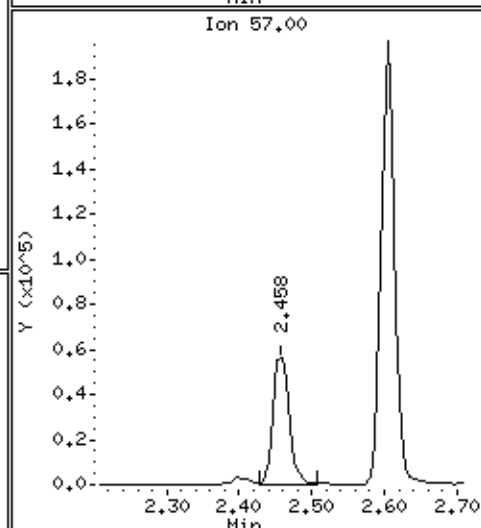
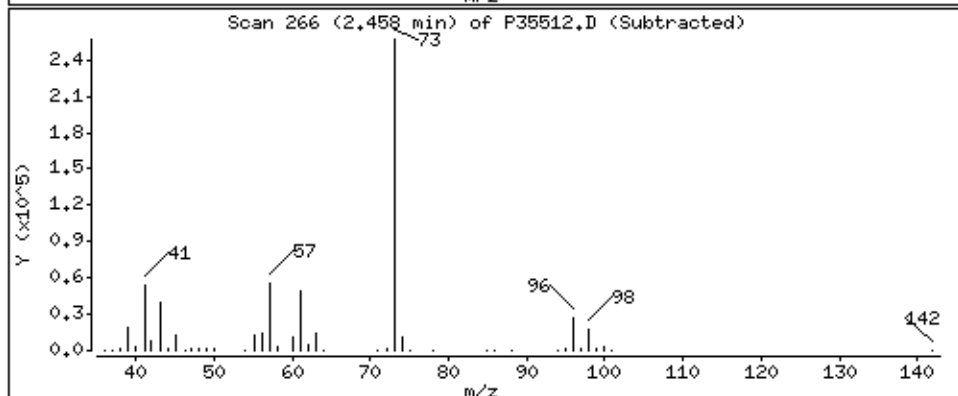
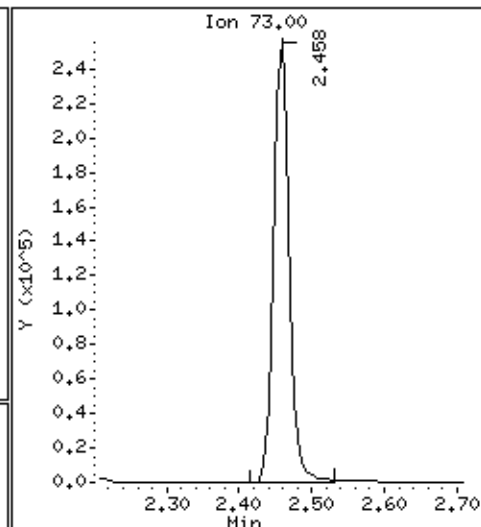
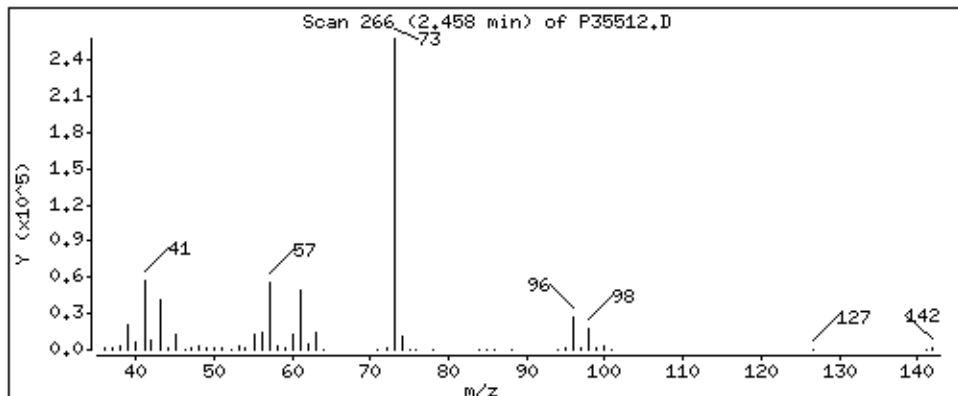
Column phase: RTX-624

Column diameter: 0,18

28 Methyl-tert-butyl ether

Concentration: 41.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

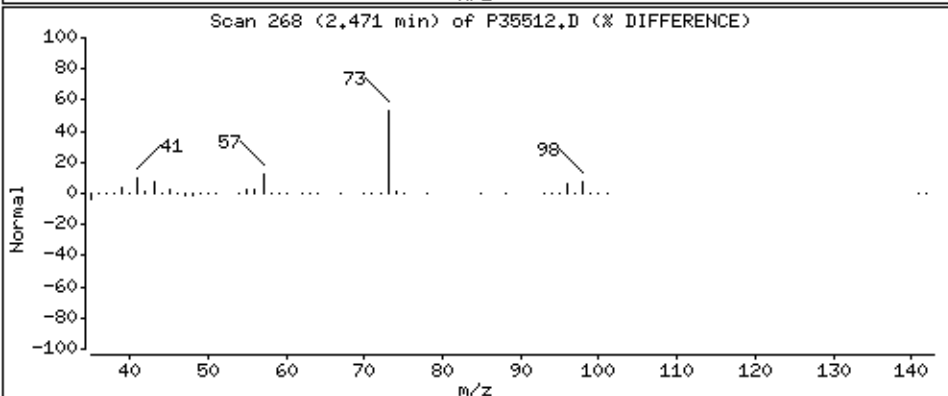
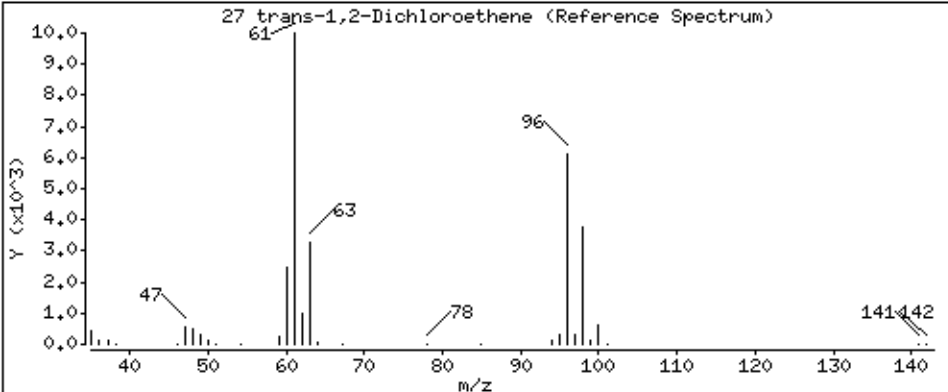
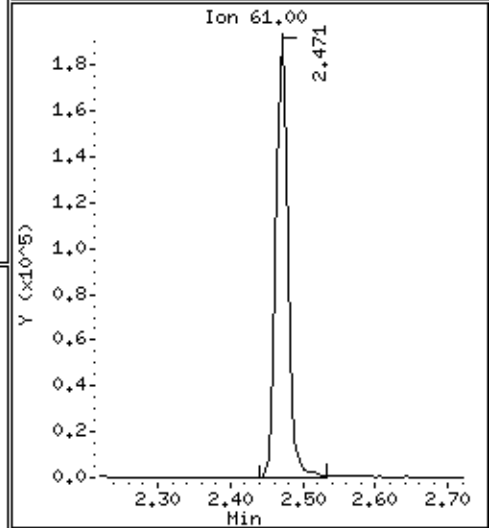
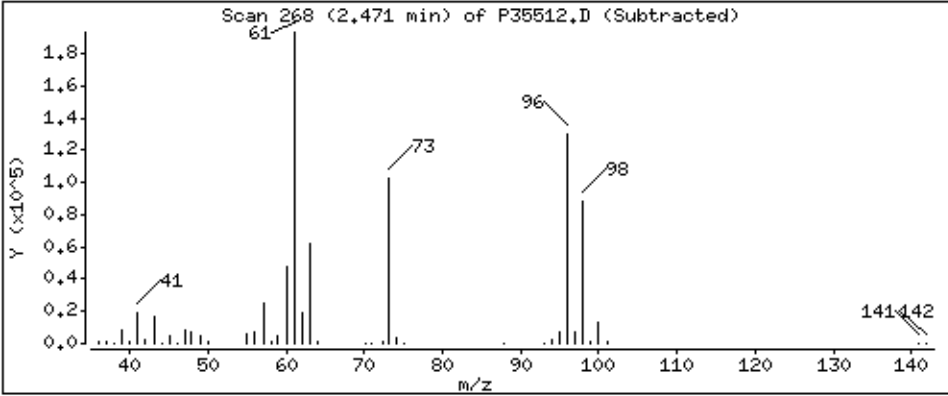
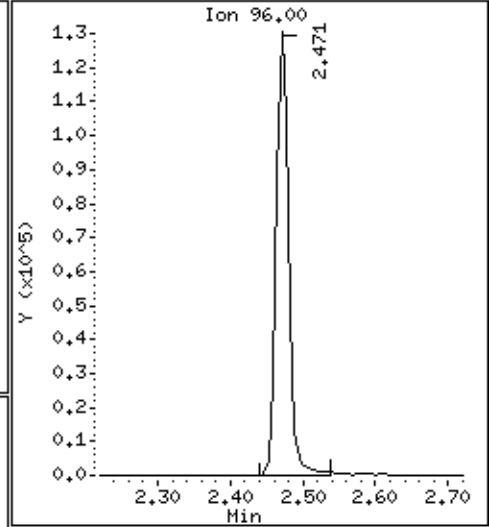
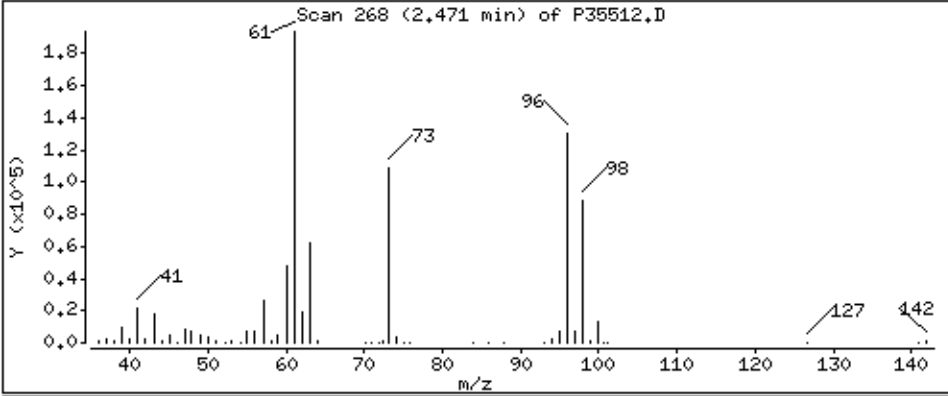
Column phase: RTX-624

Column diameter: 0.18

27 trans-1,2-Dichloroethene

Concentration: 47.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

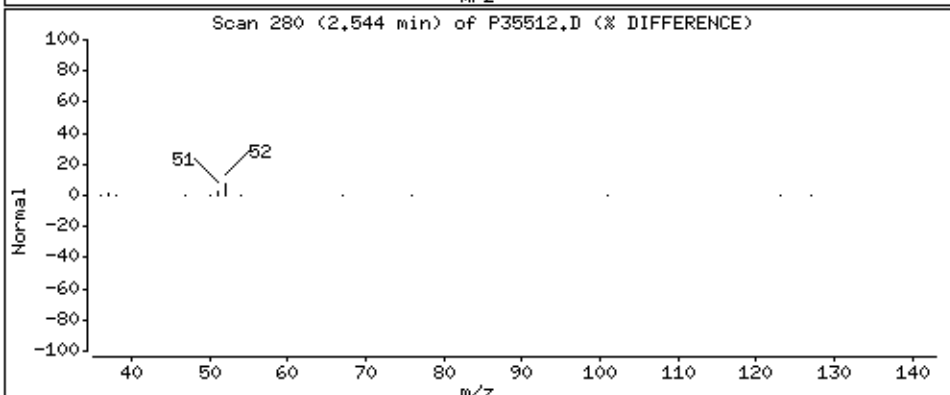
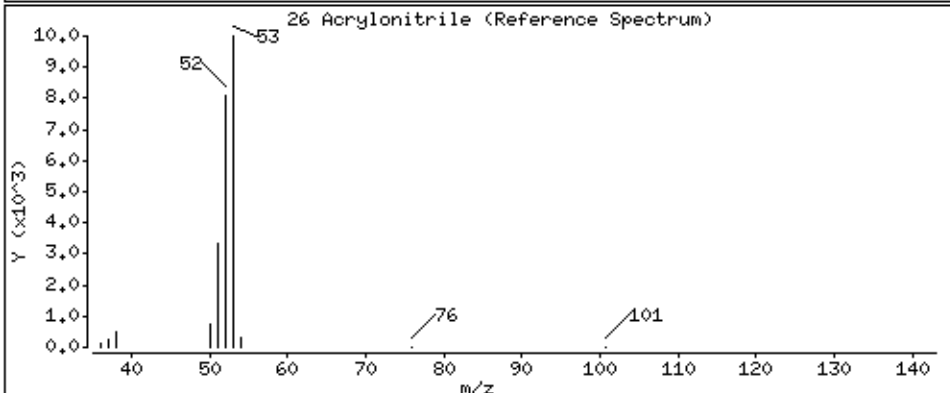
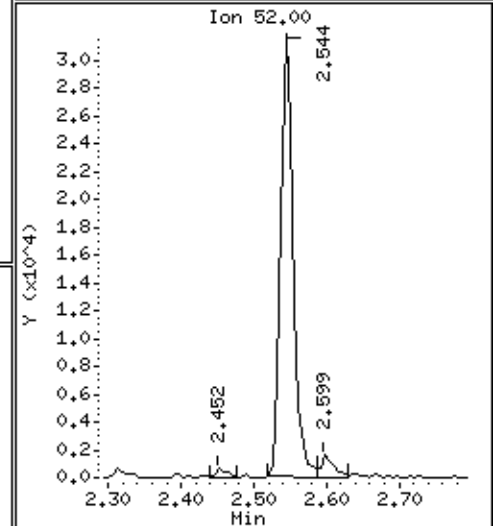
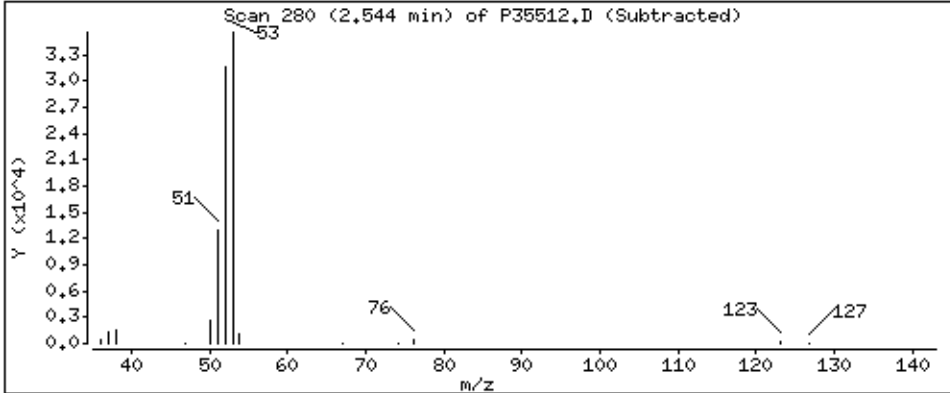
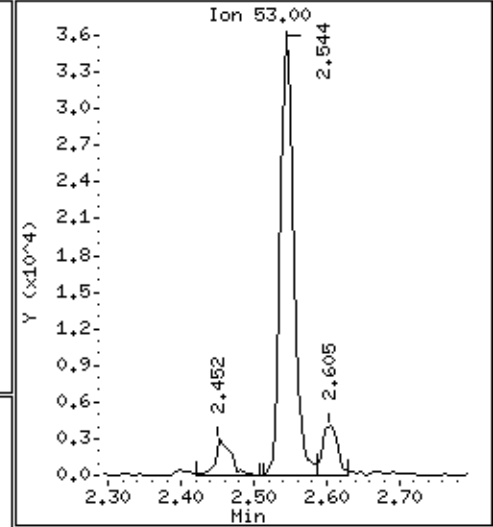
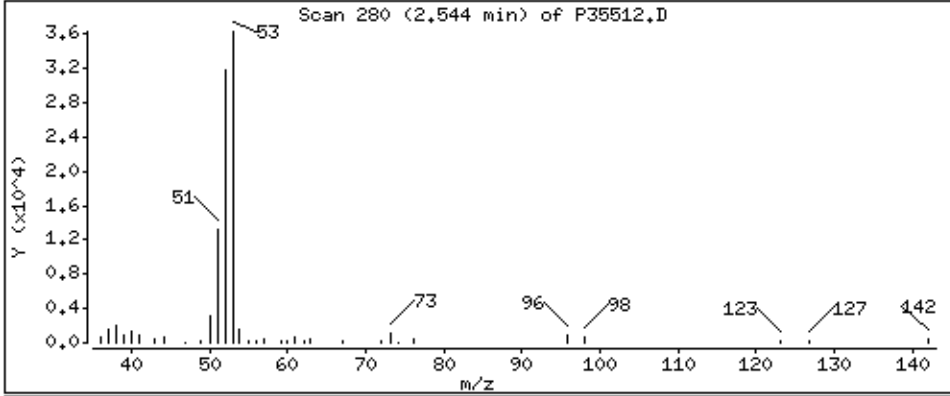
Column phase: RTX-624

Column diameter: 0,18

26 Acrylonitrile

Concentration: 44,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

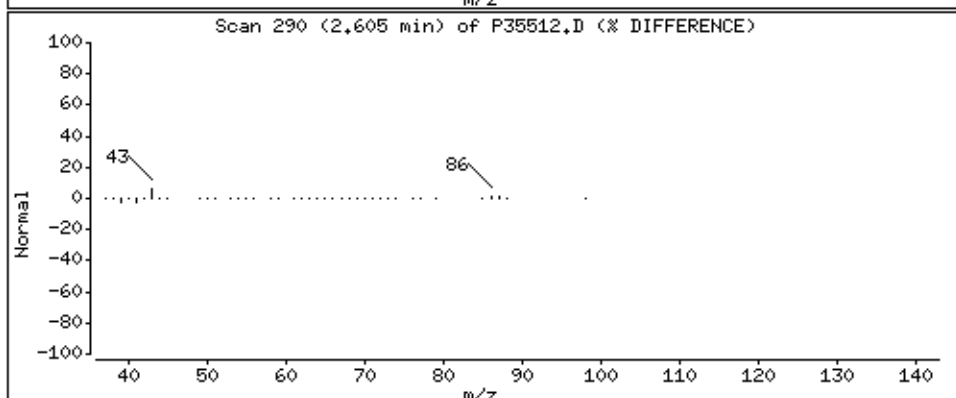
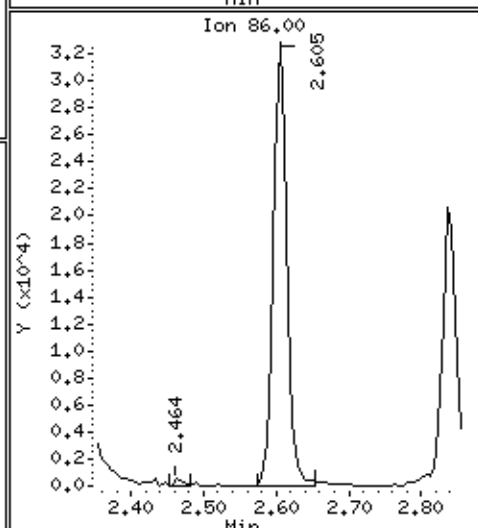
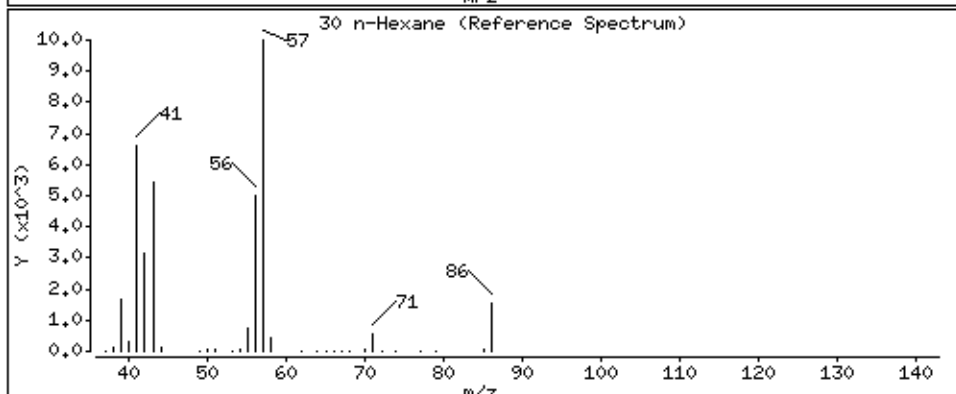
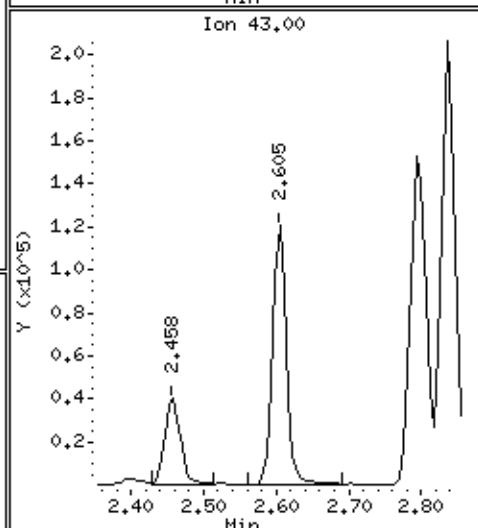
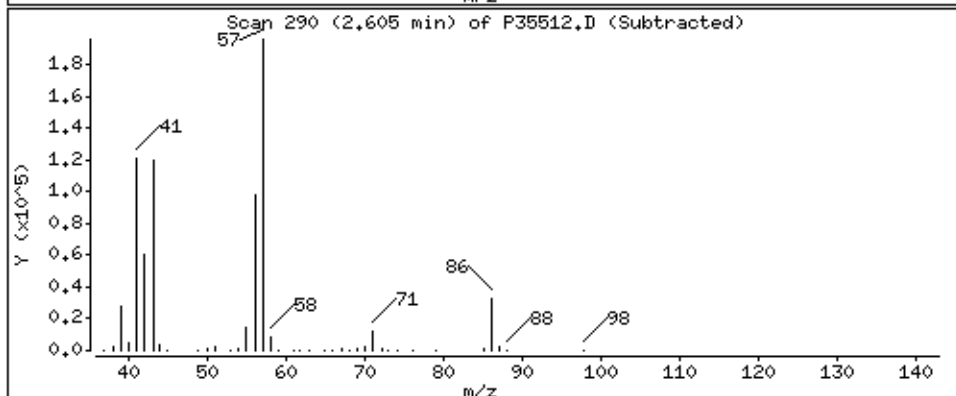
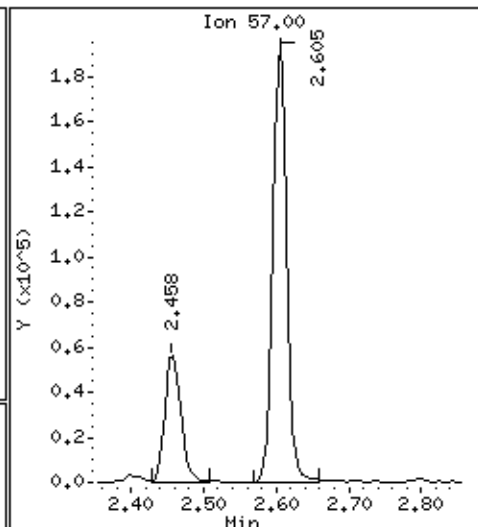
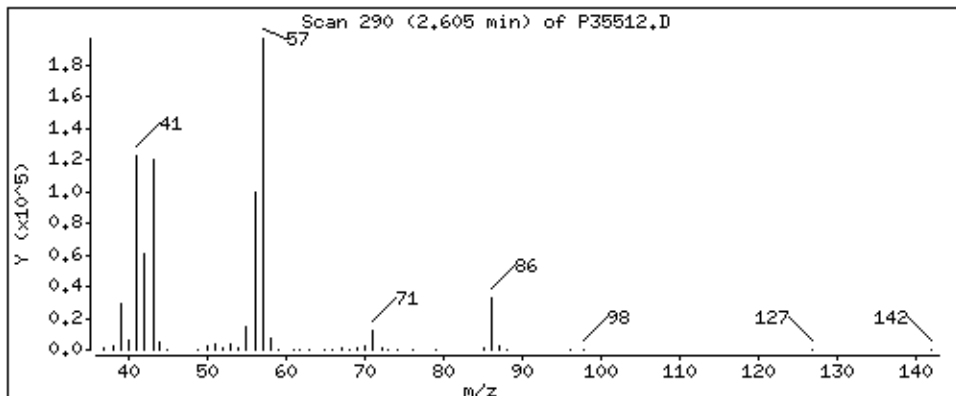
Column phase: RTX-624

Column diameter: 0.18

30 n-Hexane

Concentration: 44.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

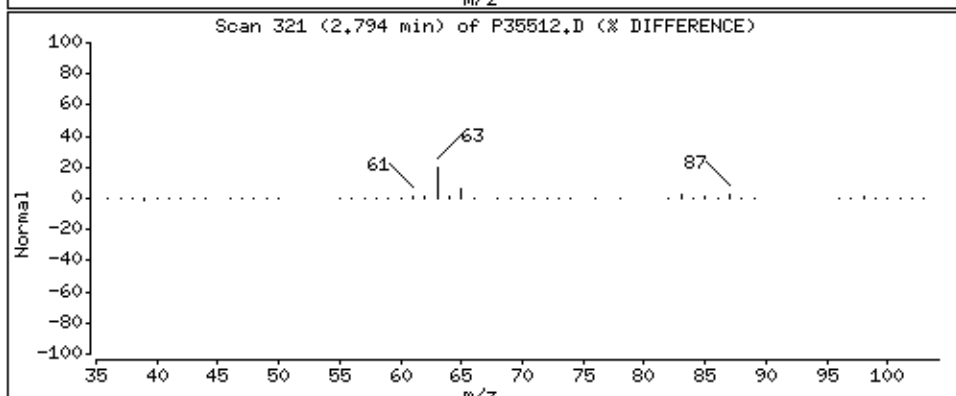
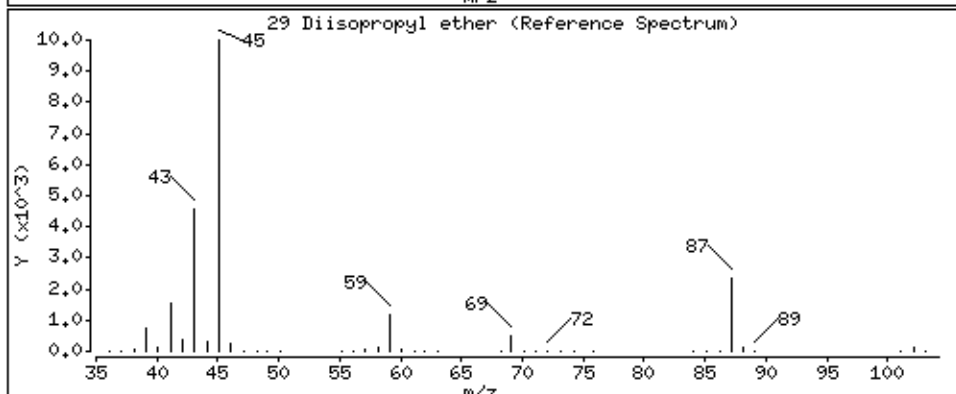
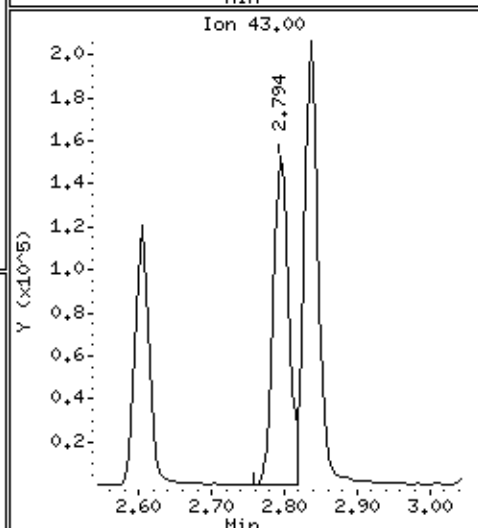
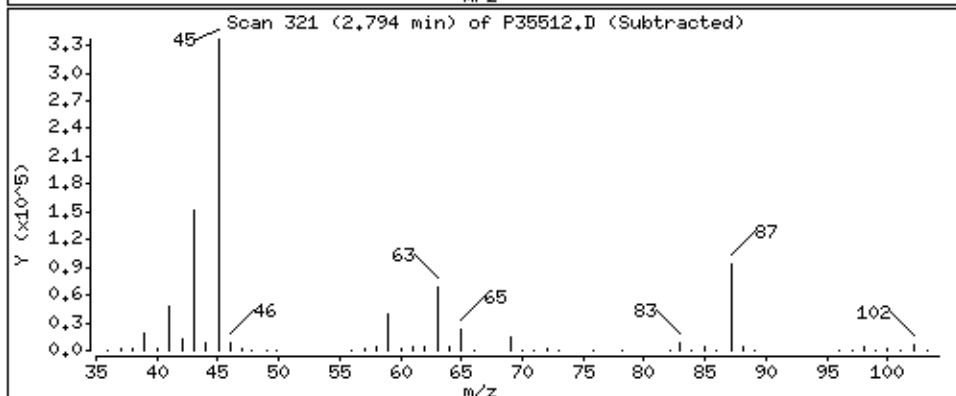
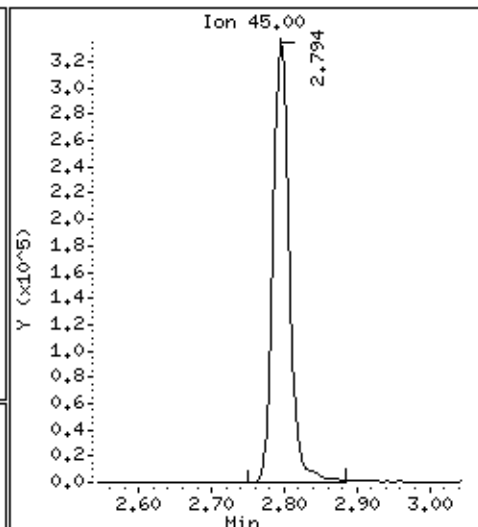
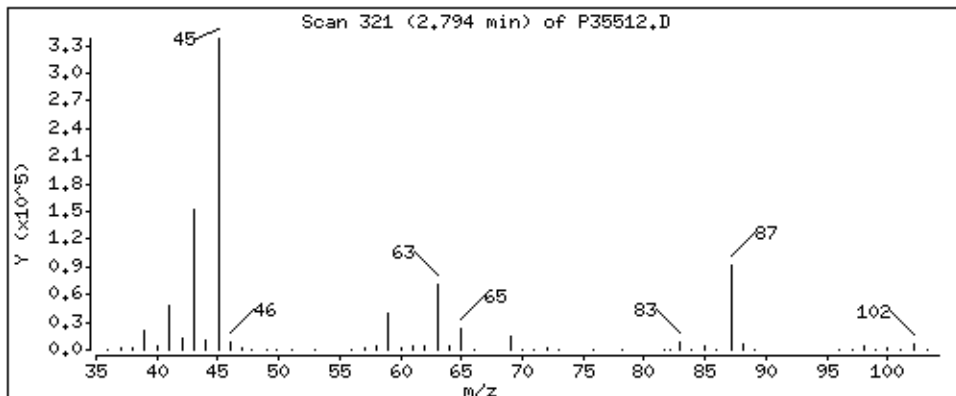
Column phase: RTX-624

Column diameter: 0,18

29 Diisopropyl ether

Concentration: 45,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

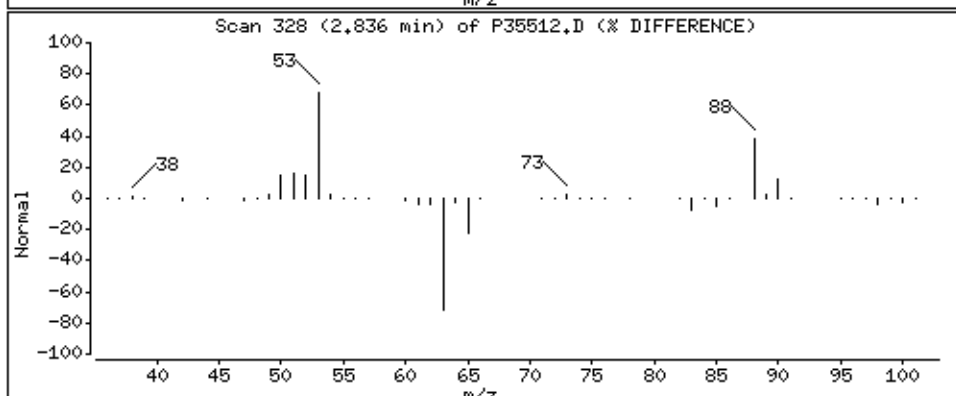
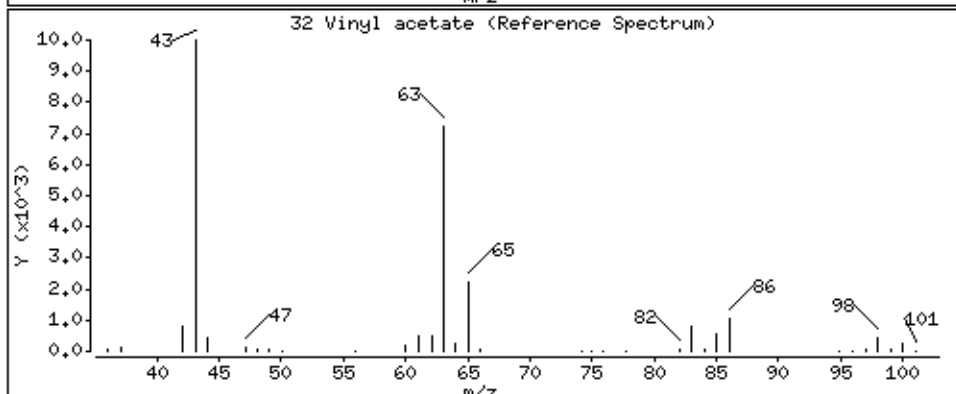
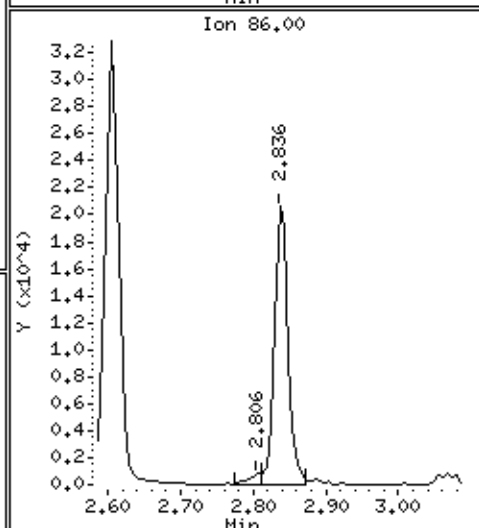
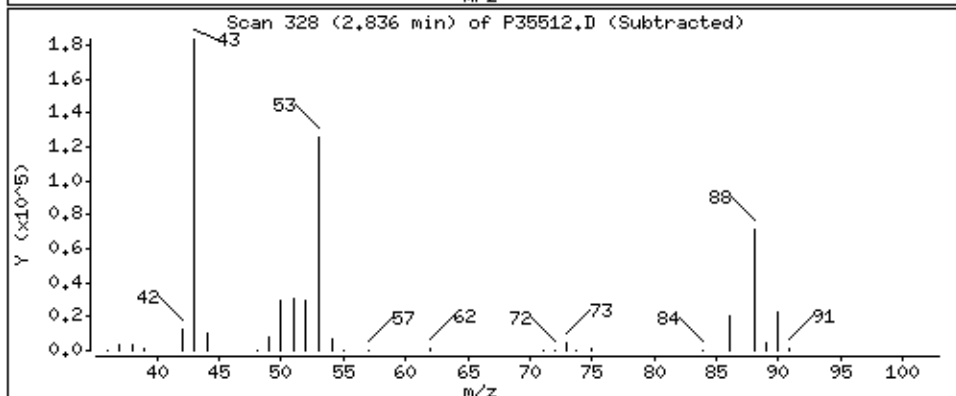
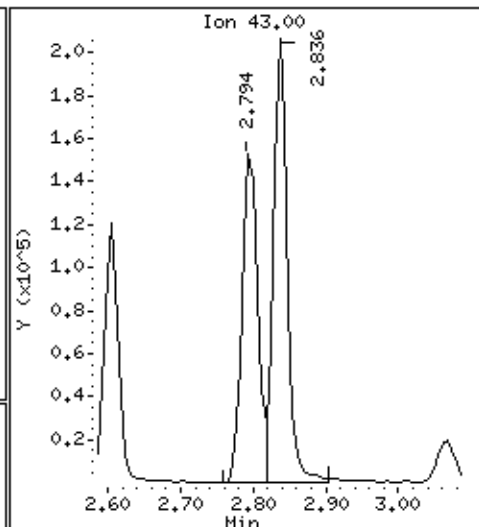
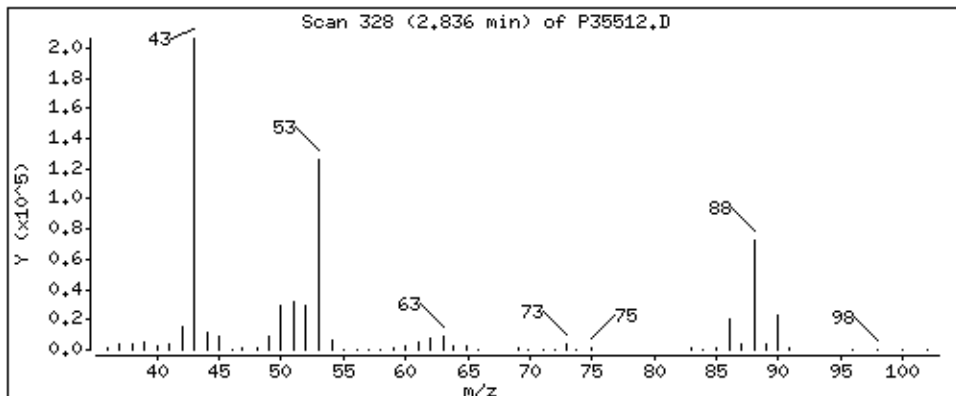
Column phase: RTX-624

Column diameter: 0,18

32 Vinyl acetate

Concentration: 39,2 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

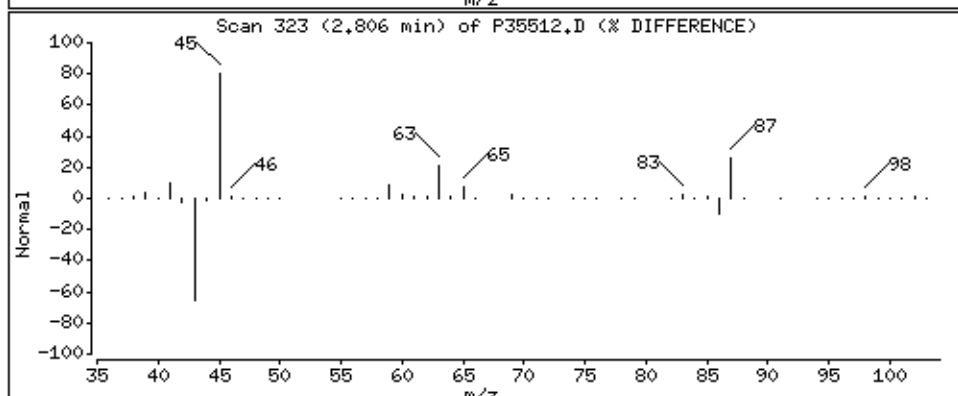
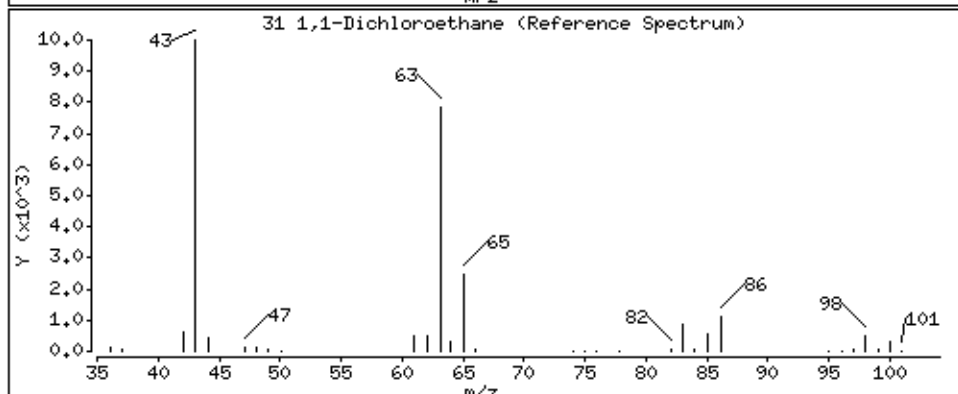
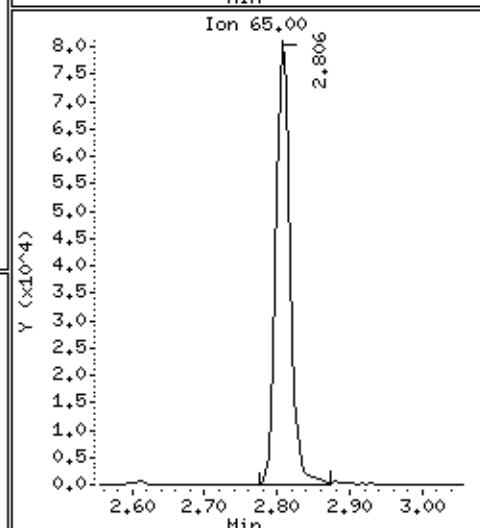
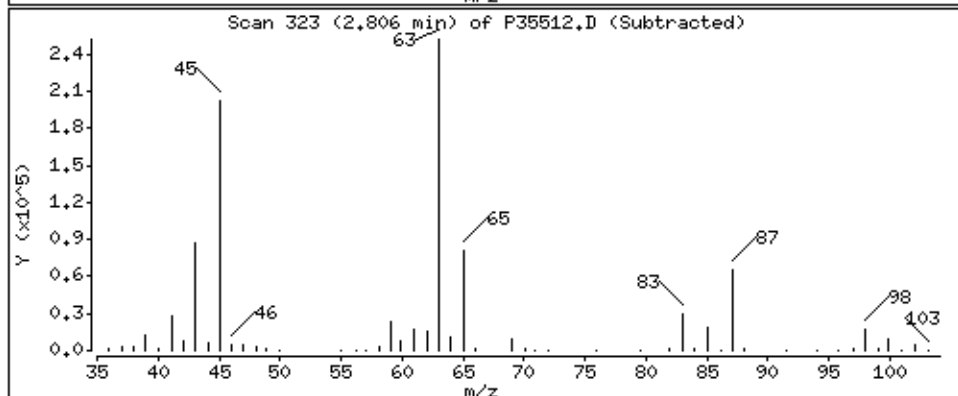
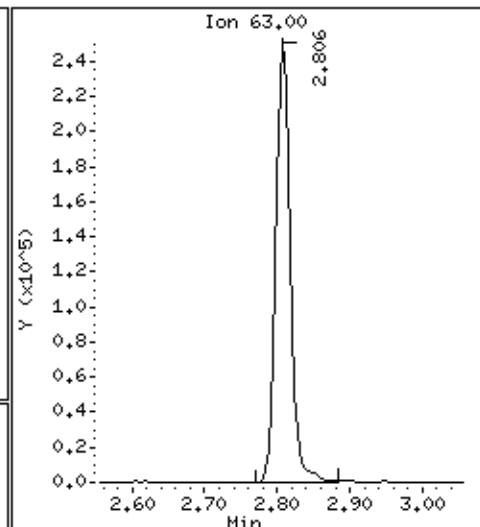
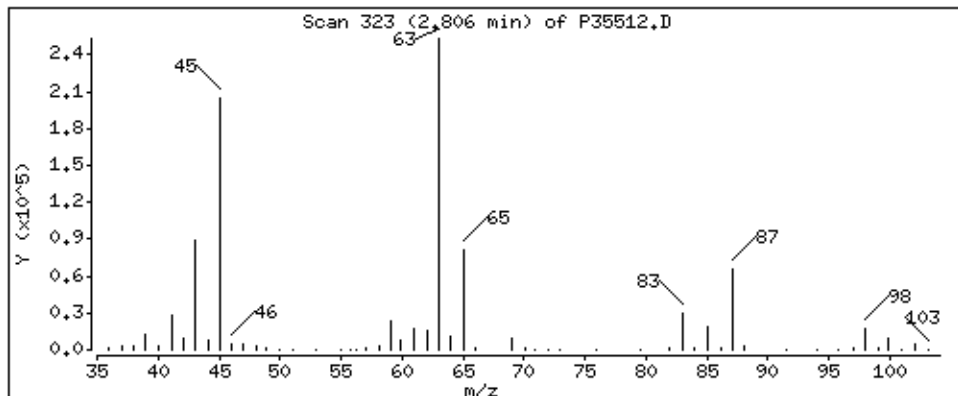
Column phase: RTX-624

Column diameter: 0,18

31 1,1-Dichloroethane

Concentration: 56,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

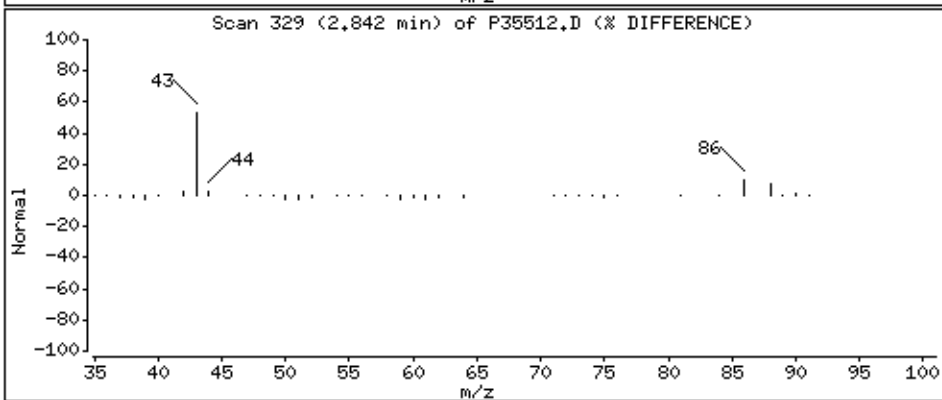
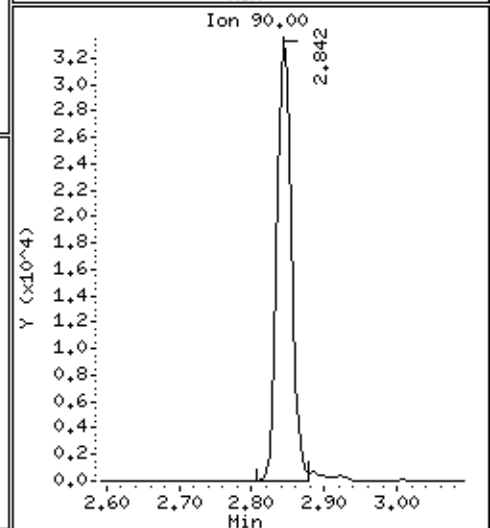
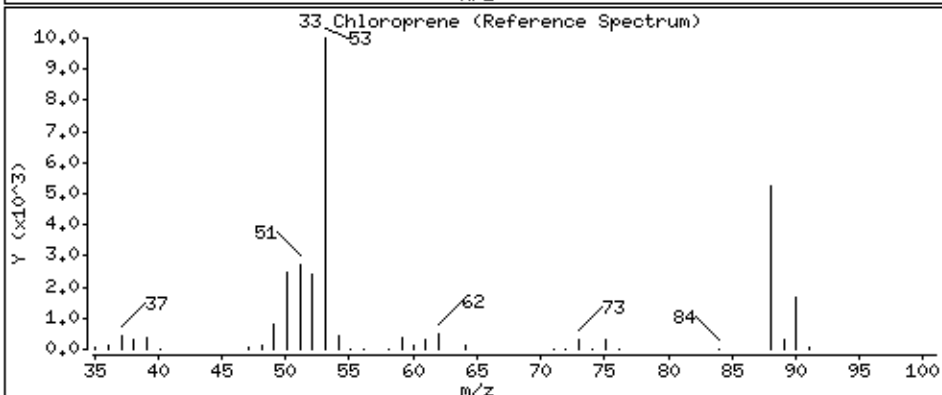
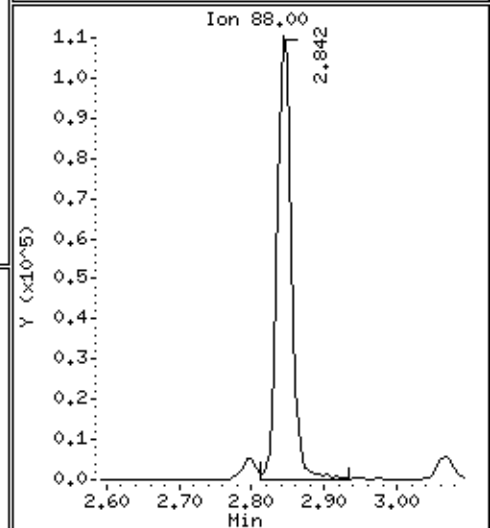
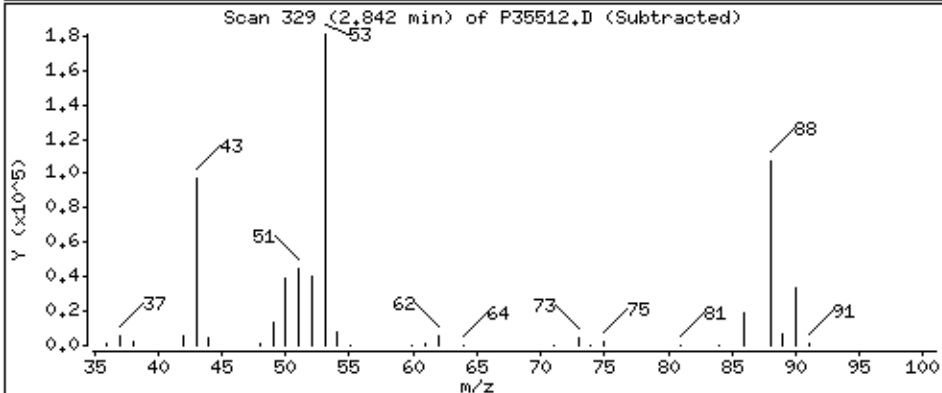
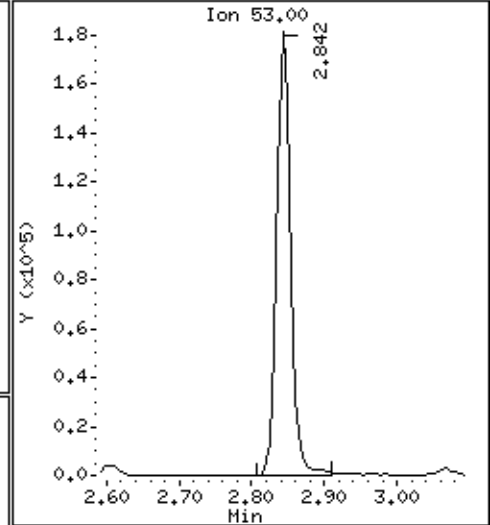
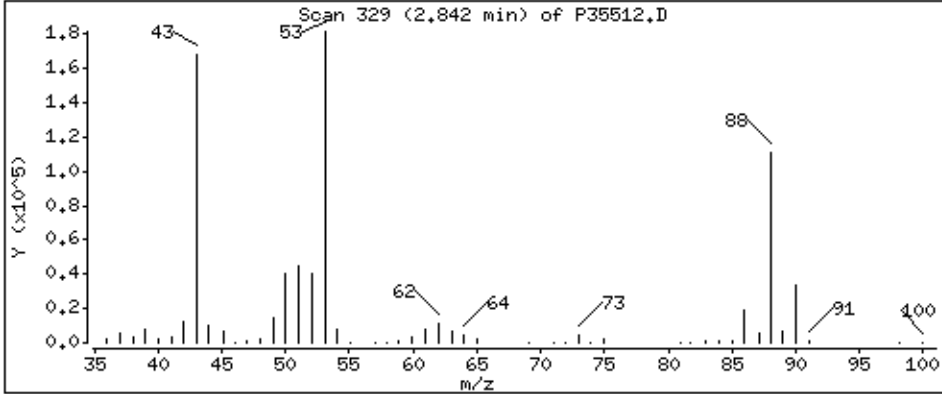
Column phase: RTX-624

Column diameter: 0,18

33 Chloroprene

Concentration: 51.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

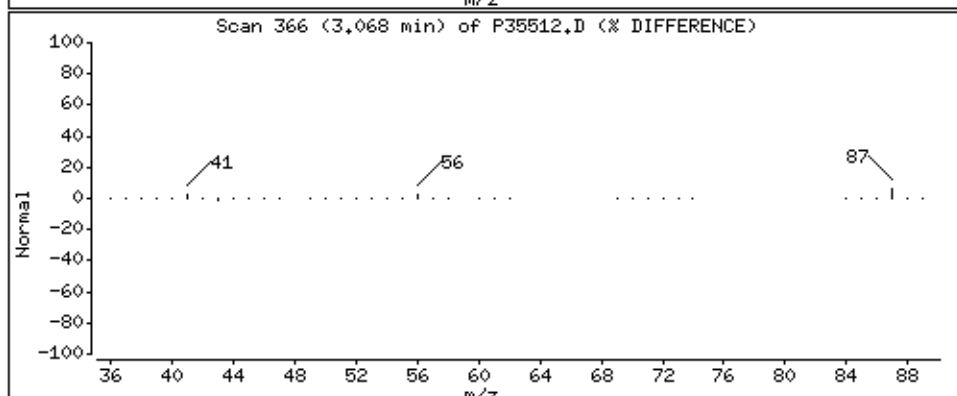
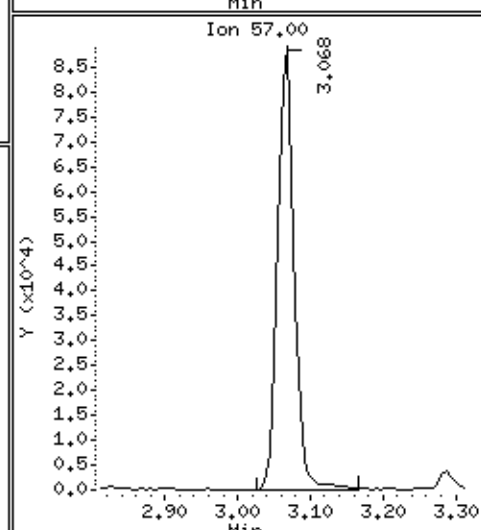
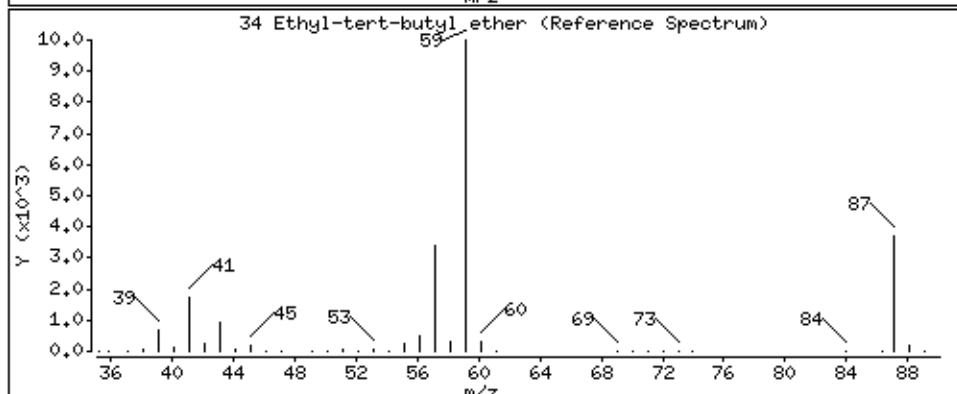
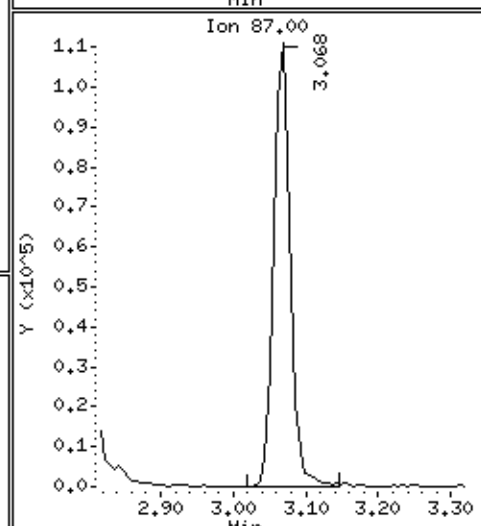
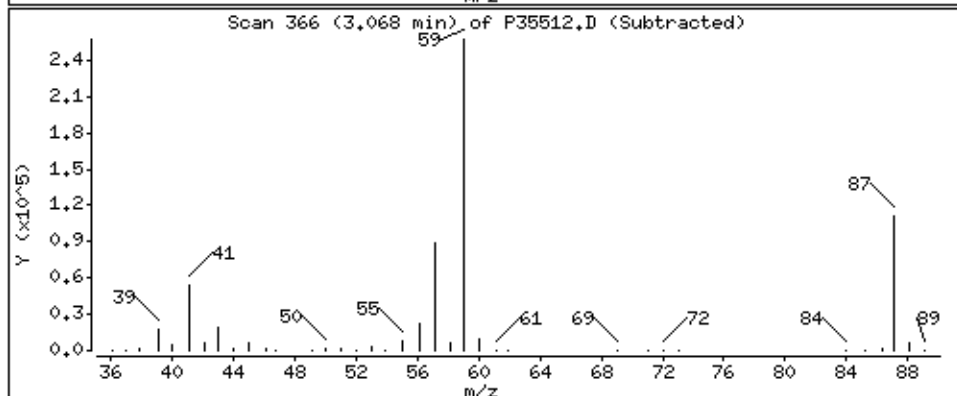
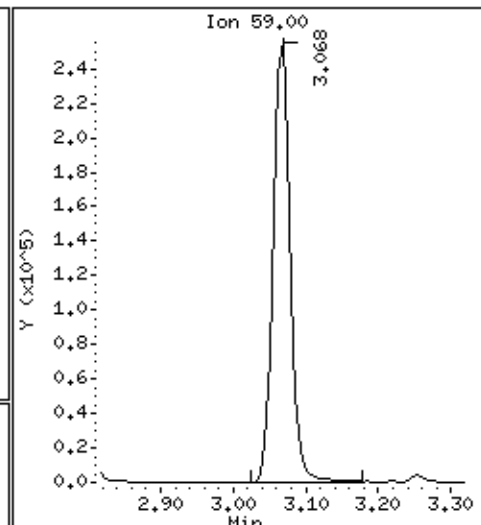
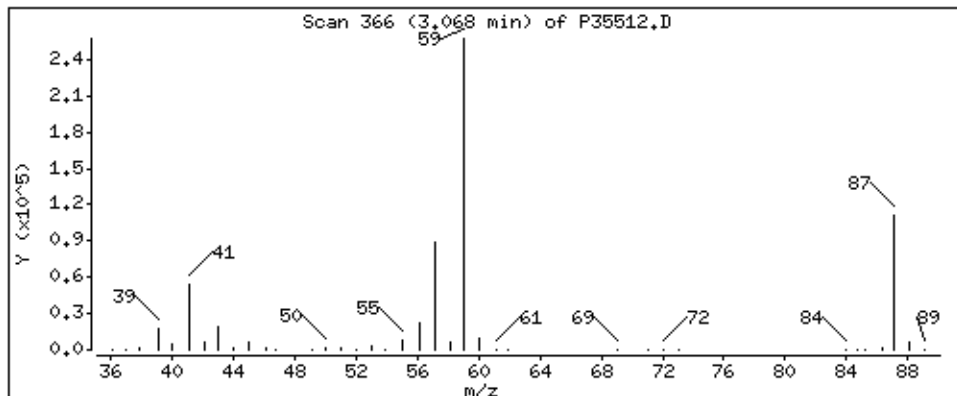
Column phase: RTX-624

Column diameter: 0,18

34 Ethyl-tert-butyl ether

Concentration: 40,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

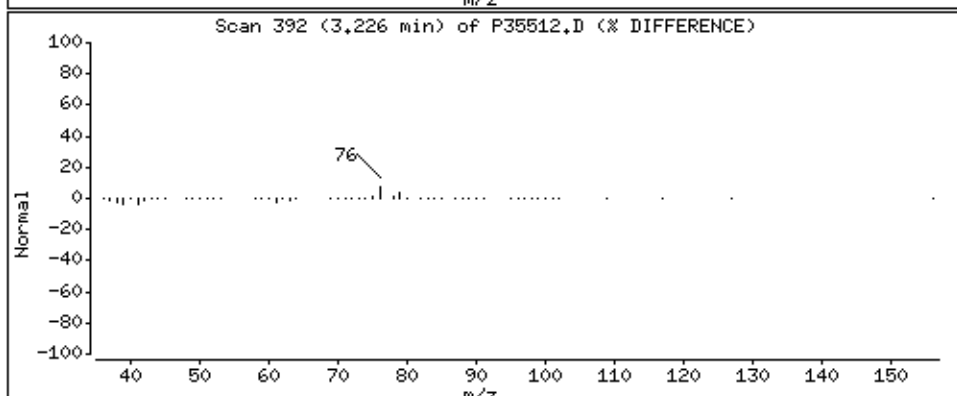
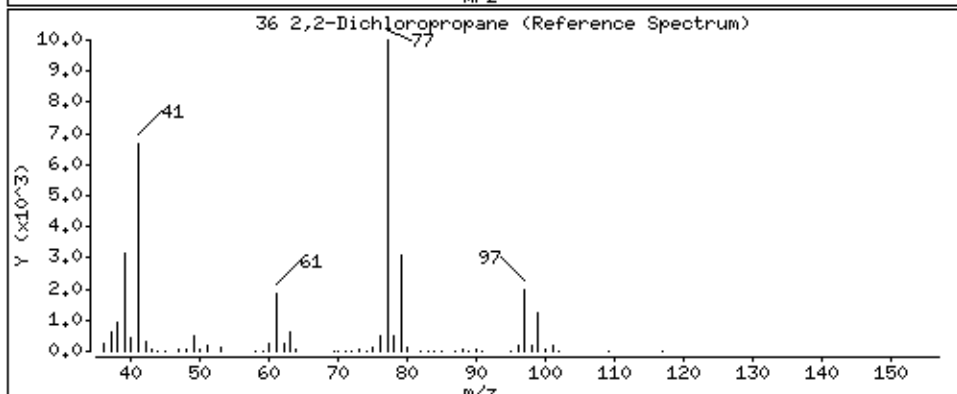
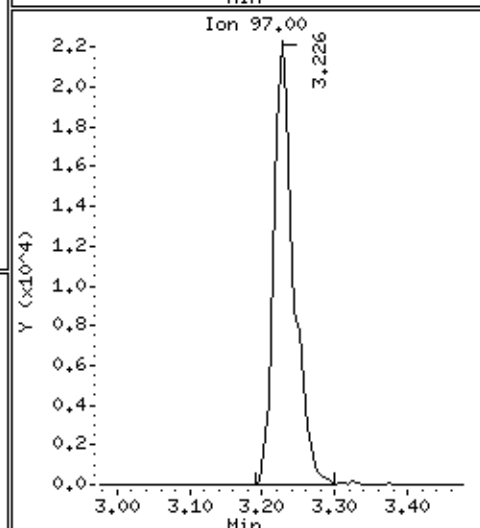
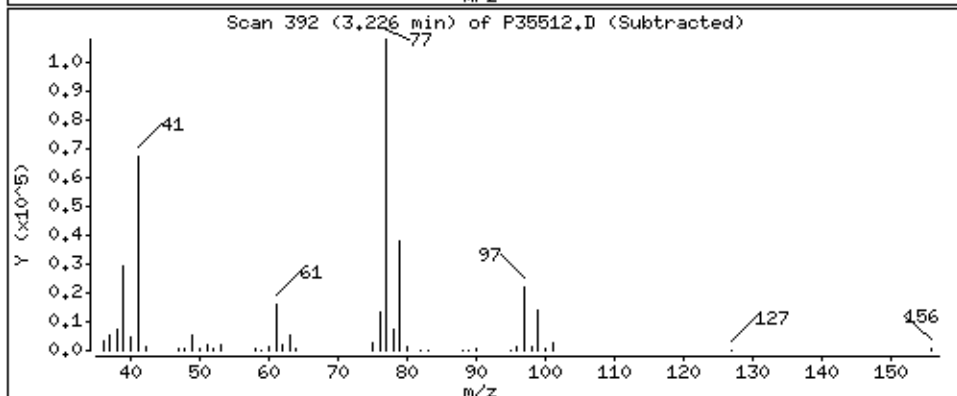
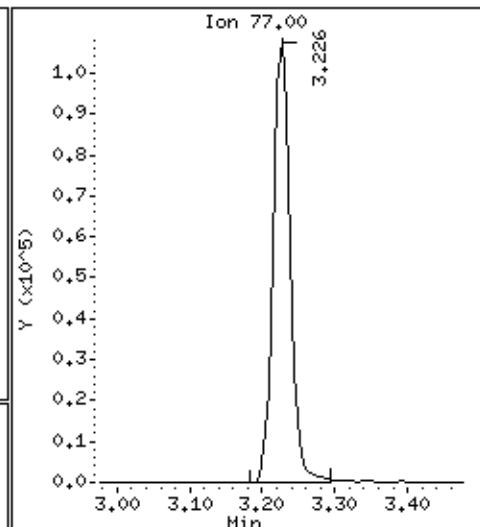
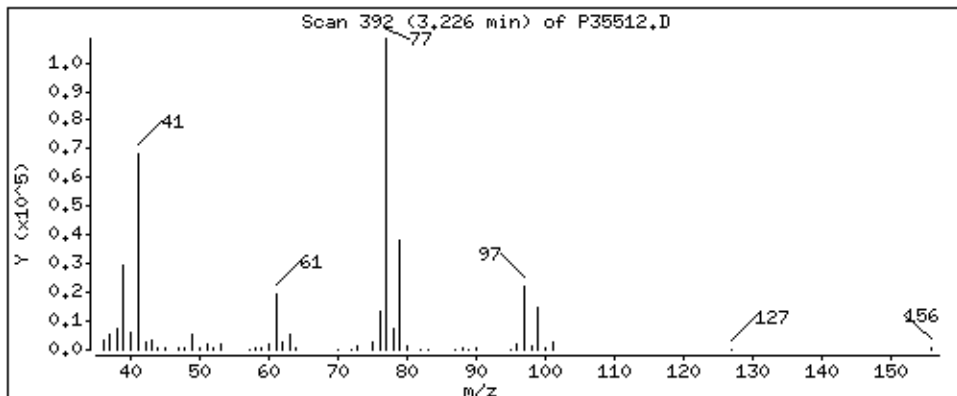
Column phase: RTX-624

Column diameter: 0,18

36 2,2-Dichloropropane

Concentration: 43,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

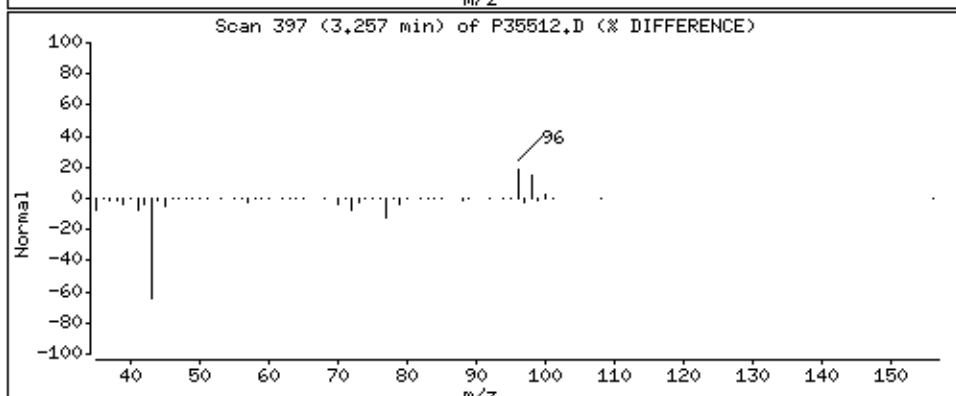
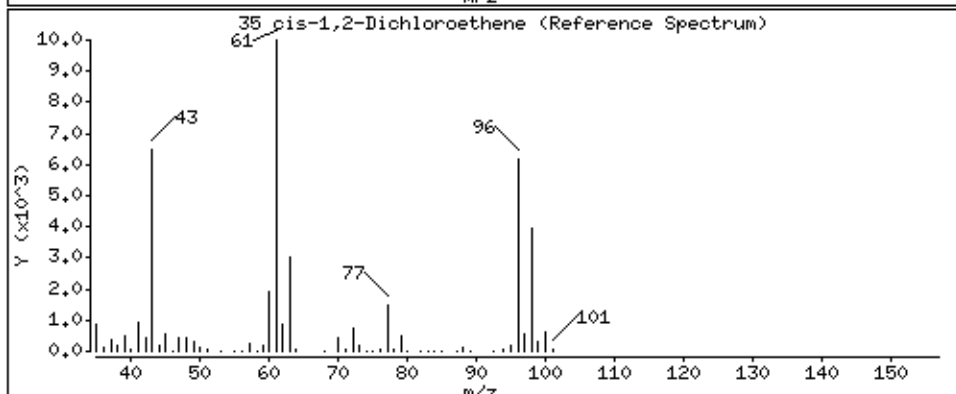
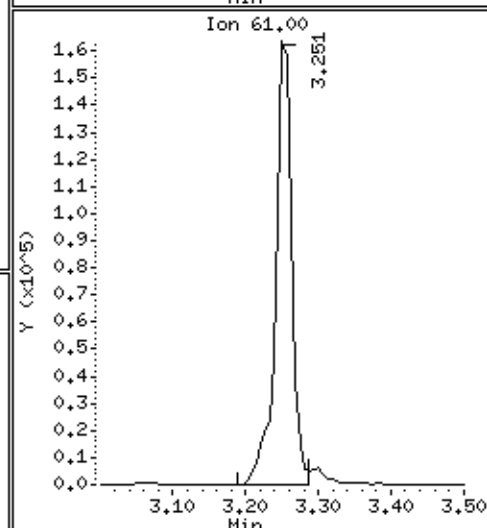
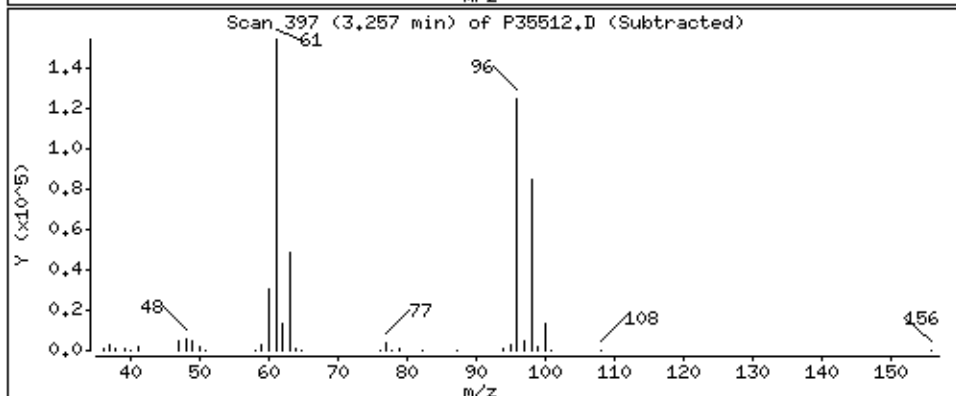
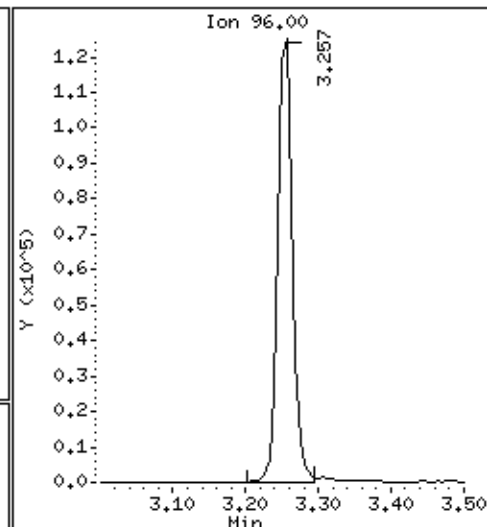
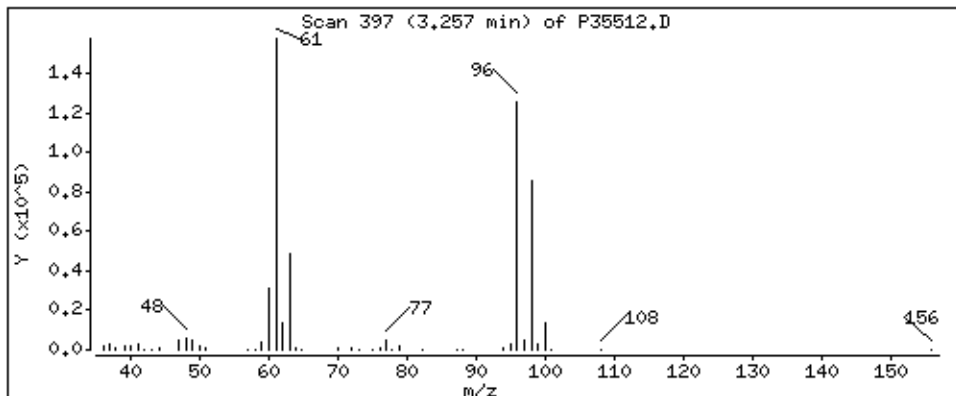
Column phase: RTX-624

Column diameter: 0,18

35 cis-1,2-Dichloroethene

Concentration: 47.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1,25

Purge Volume: 5.0

Operator: KGG

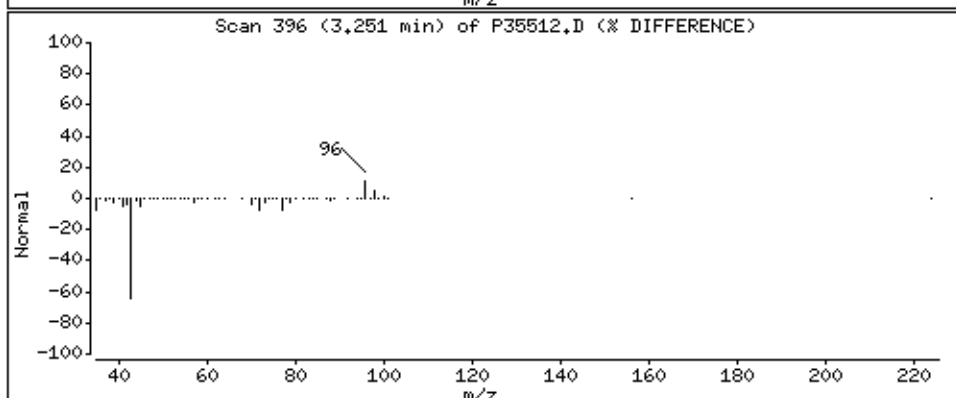
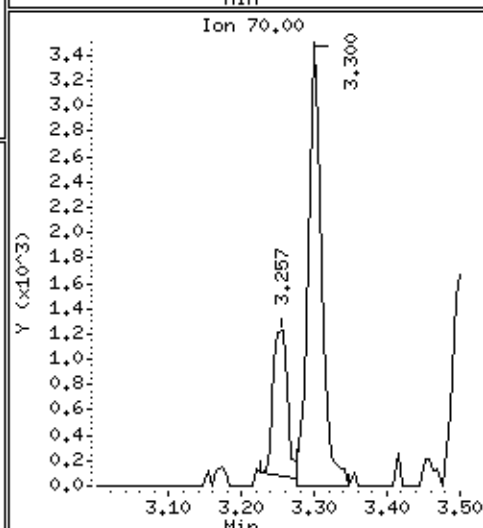
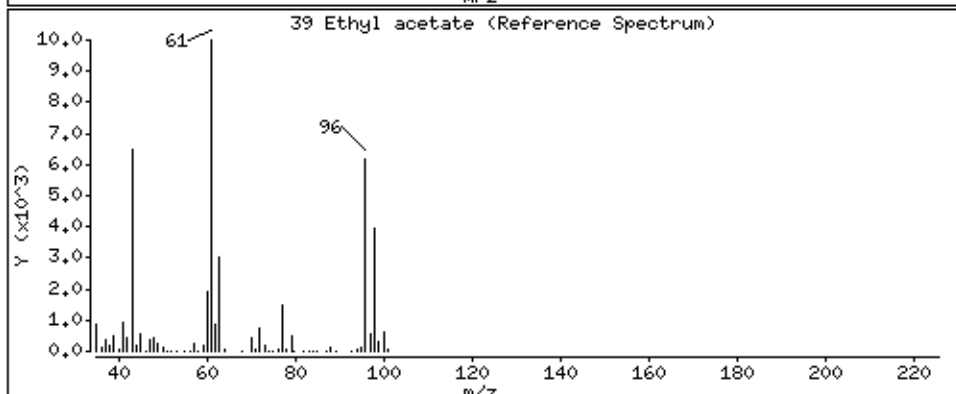
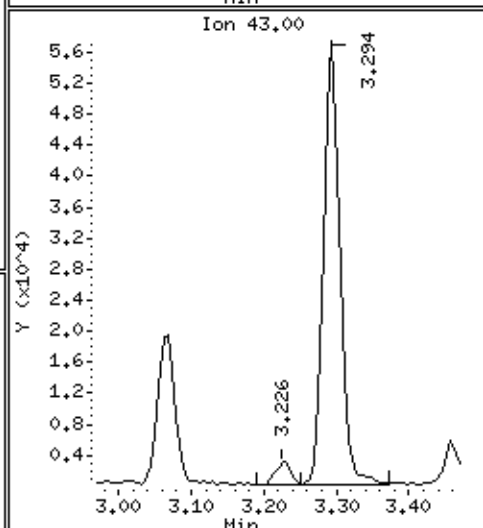
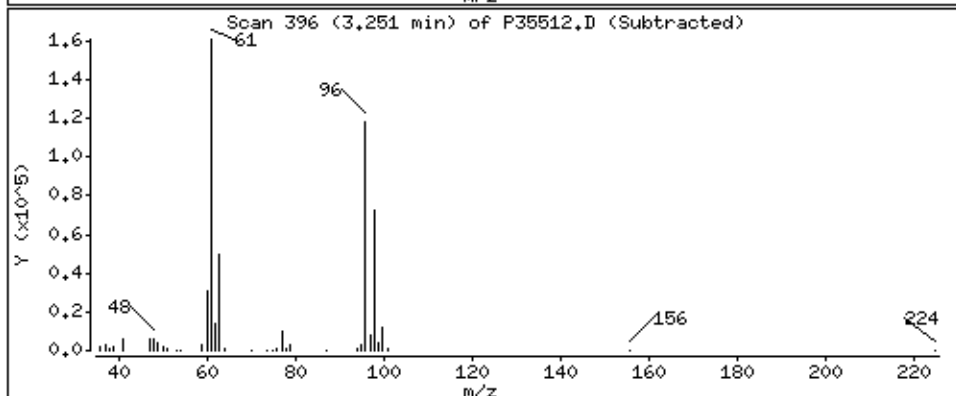
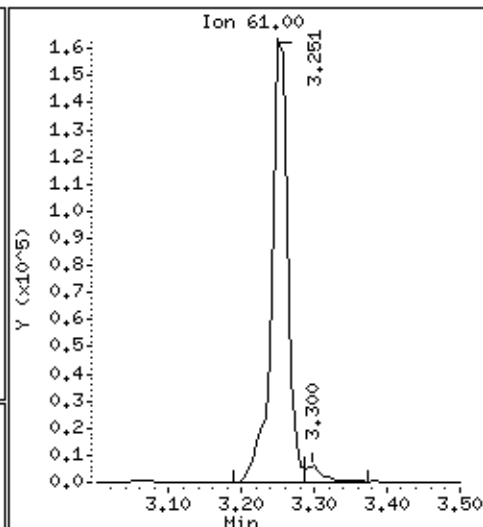
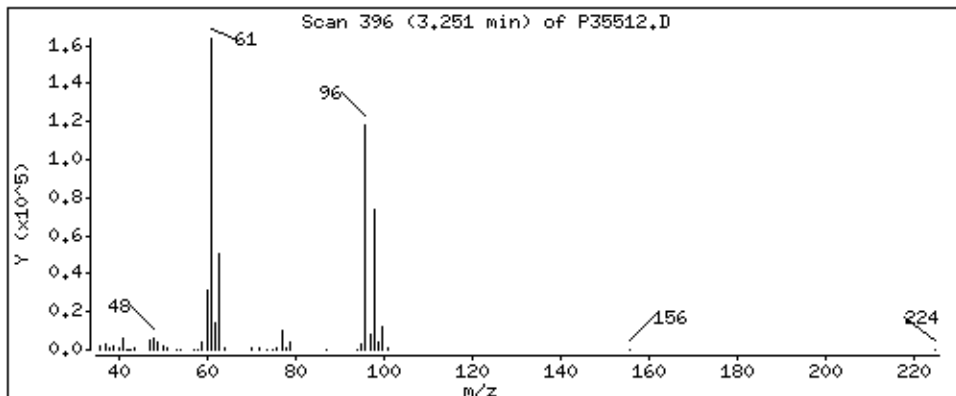
Column phase: RTX-624

Column diameter: 0,18

39 Ethyl acetate

Concentration: 44,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1,25

Purge Volume: 5.0

Operator: KGG

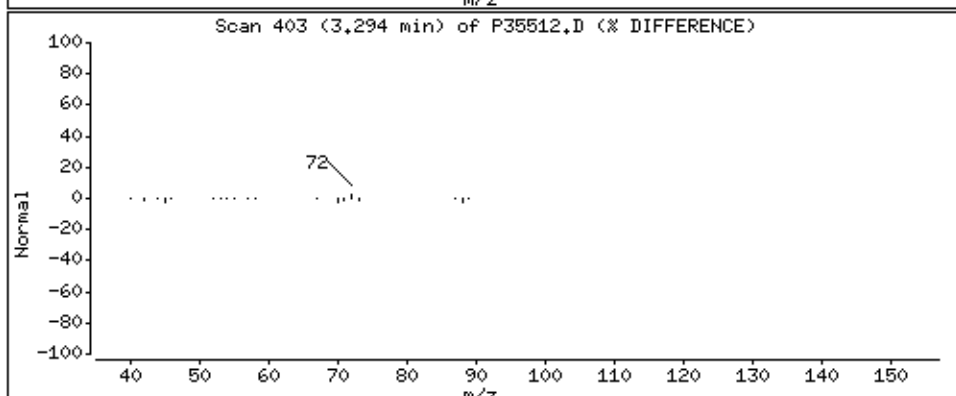
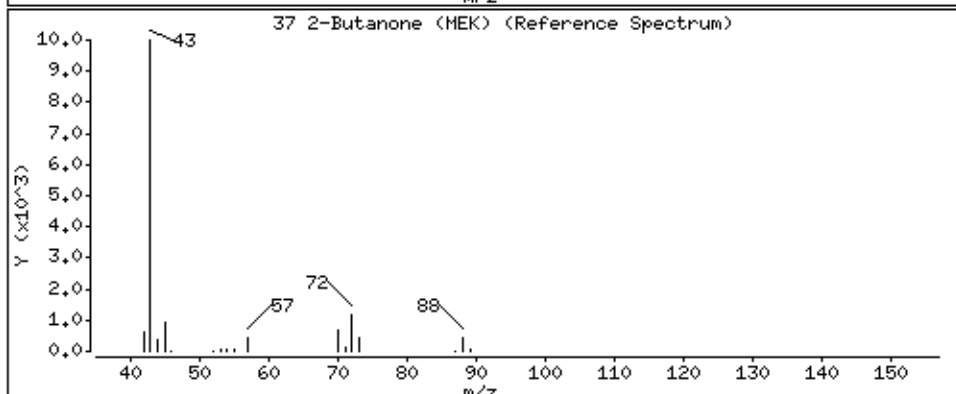
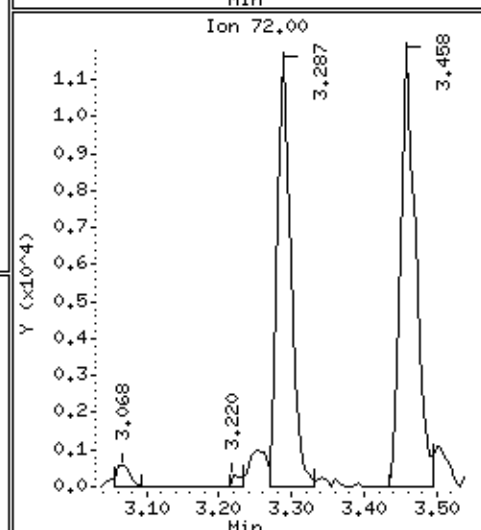
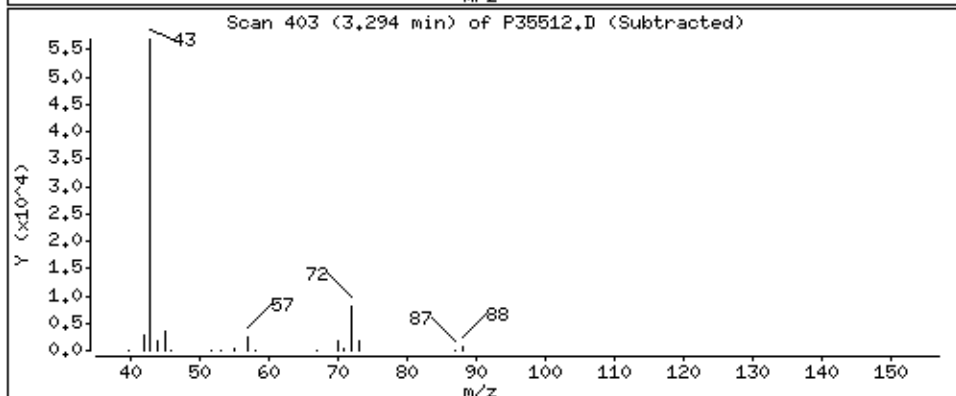
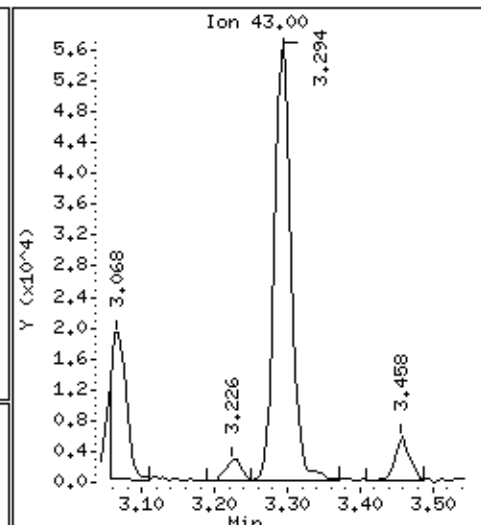
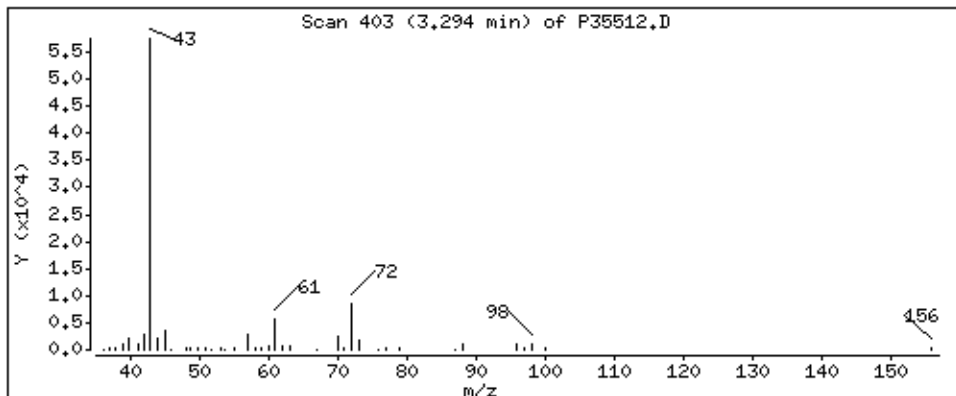
Column phase: RTX-624

Column diameter: 0,18

37 2-Butanone (MEK)

Concentration: 39,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1,25

Purge Volume: 5.0

Operator: KGG

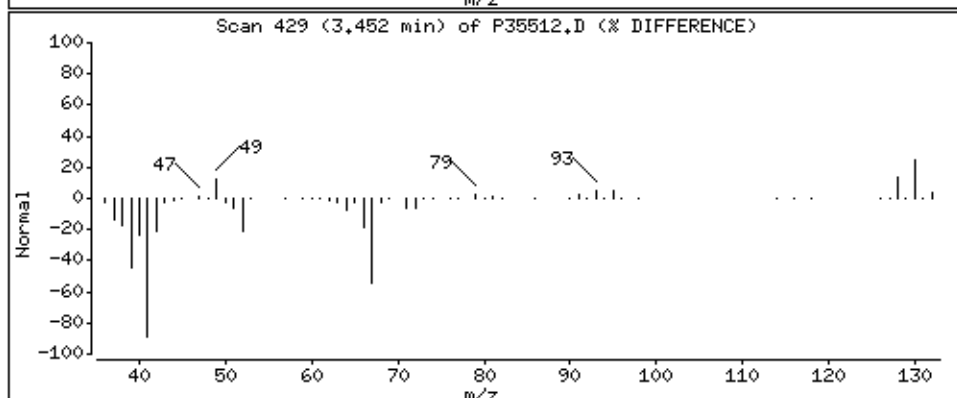
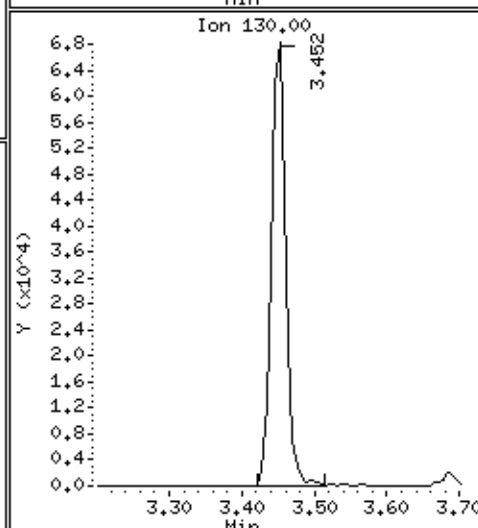
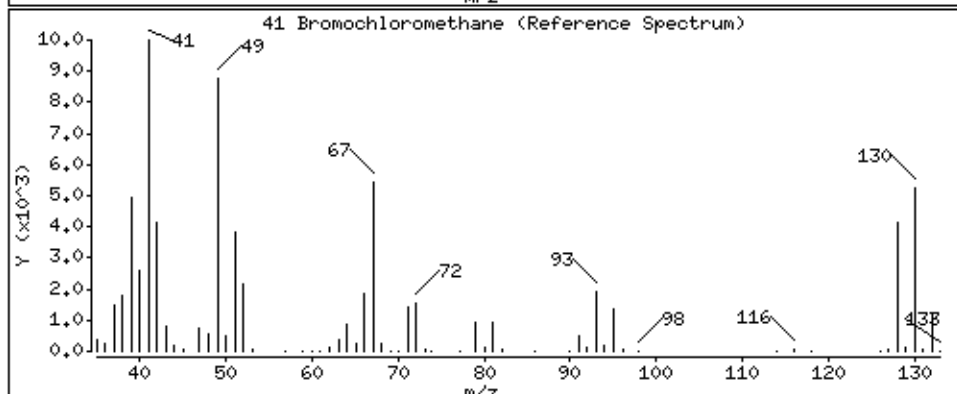
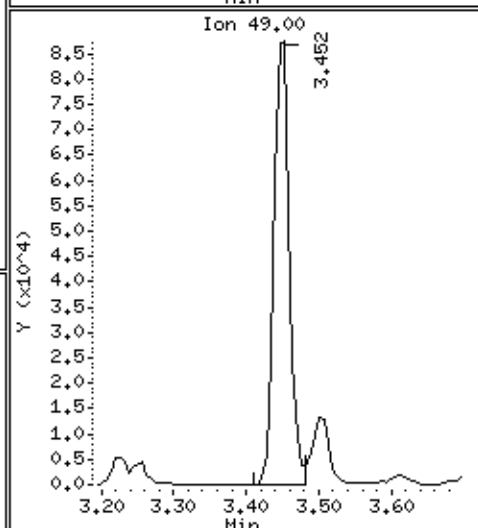
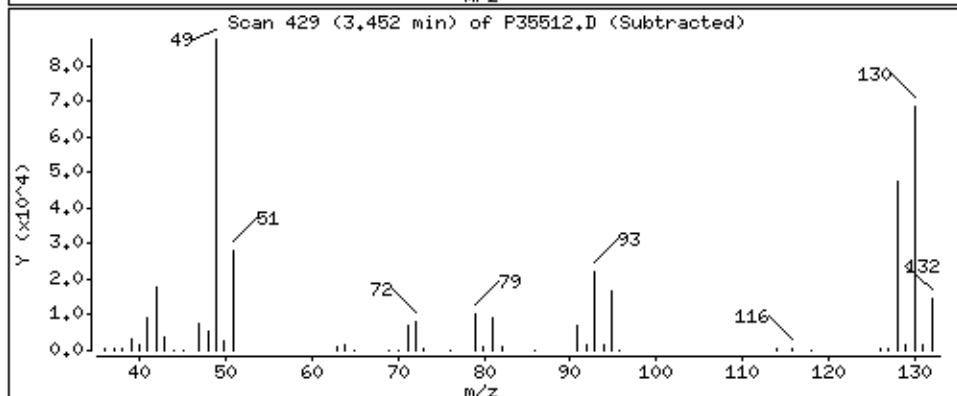
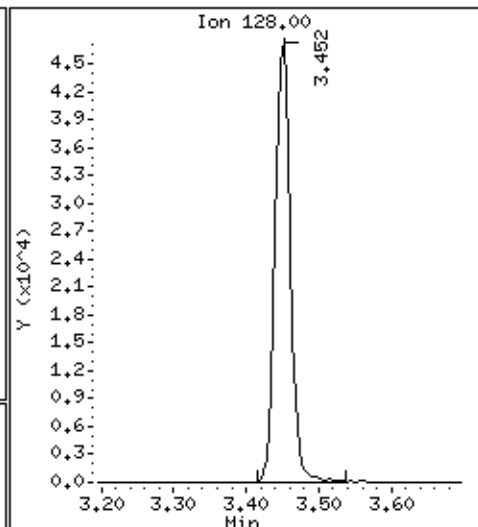
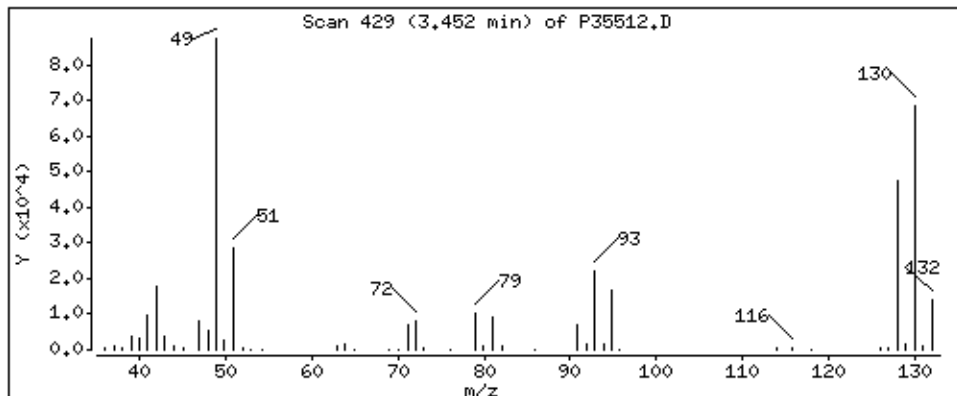
Column phase: RTX-624

Column diameter: 0,18

41 Bromochloromethane

Concentration: 44,8 ug/L

Review Code:

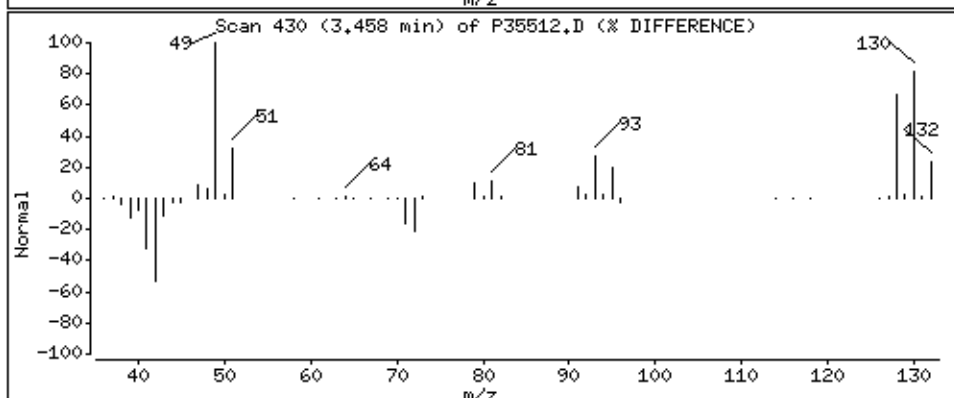
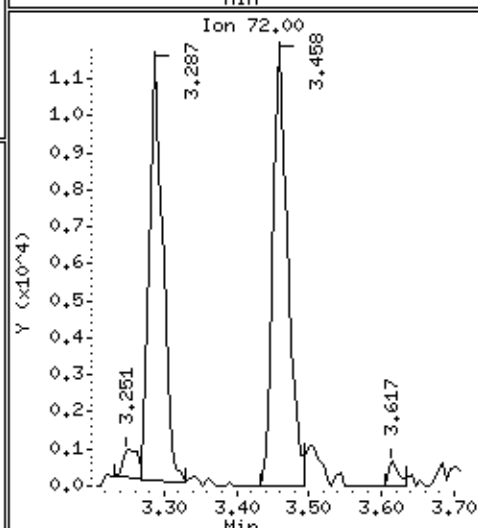
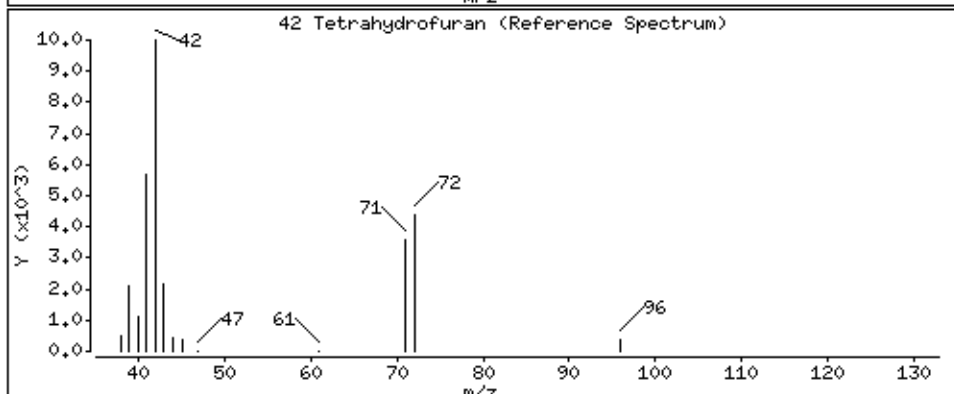
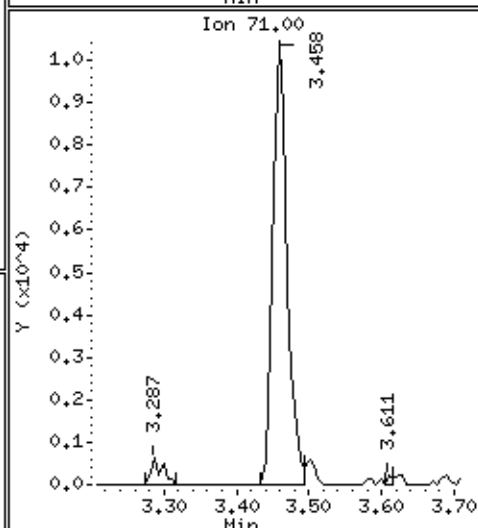
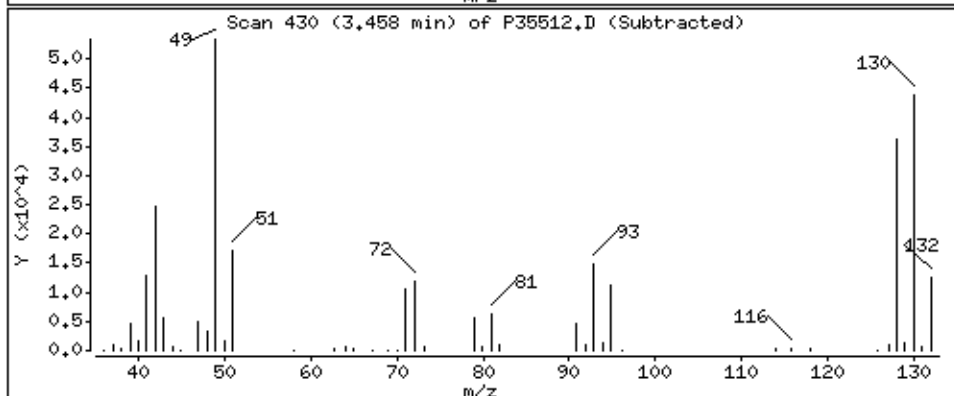
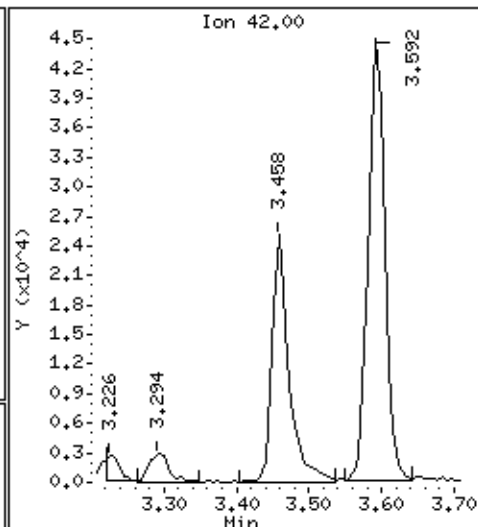
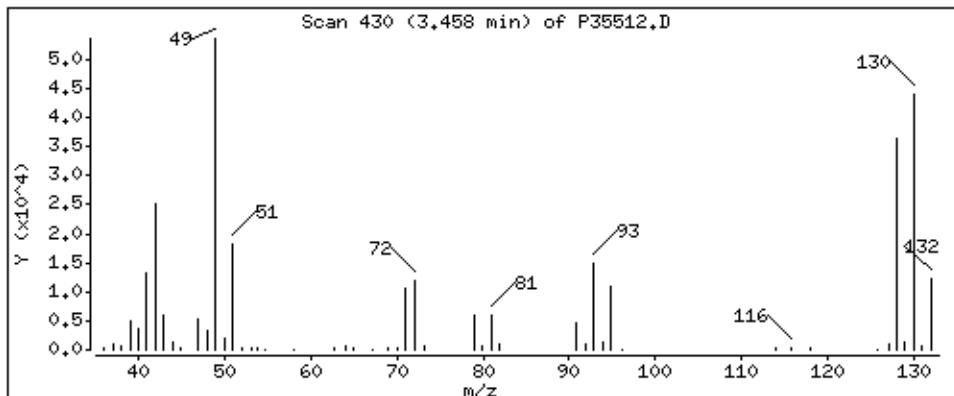




42 Tetrahydrofuran

Concentration: 39,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

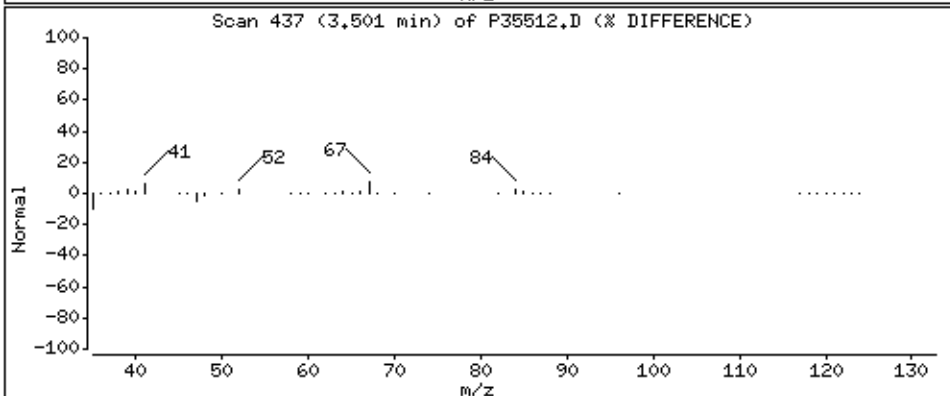
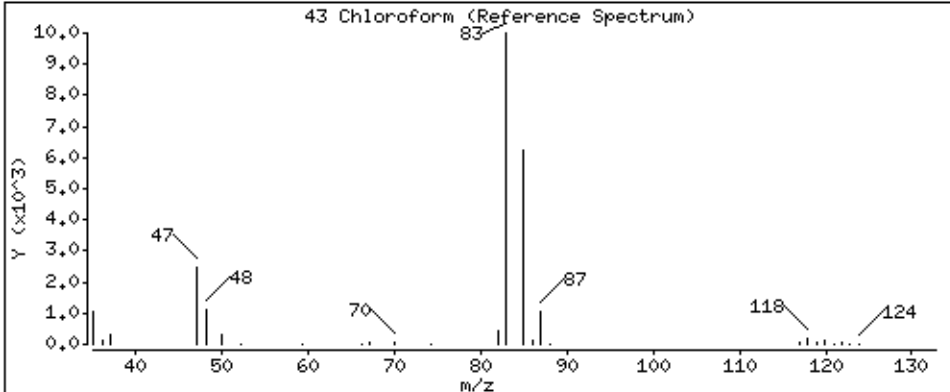
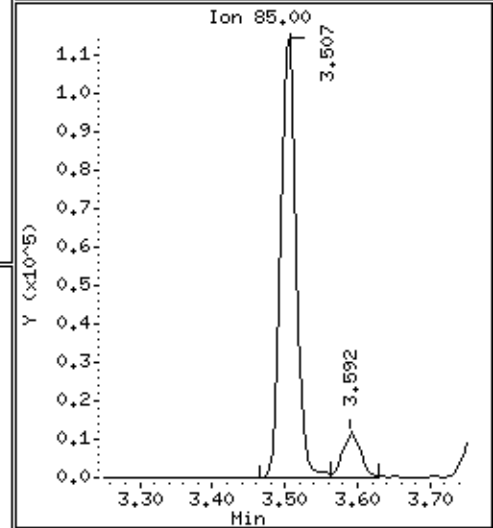
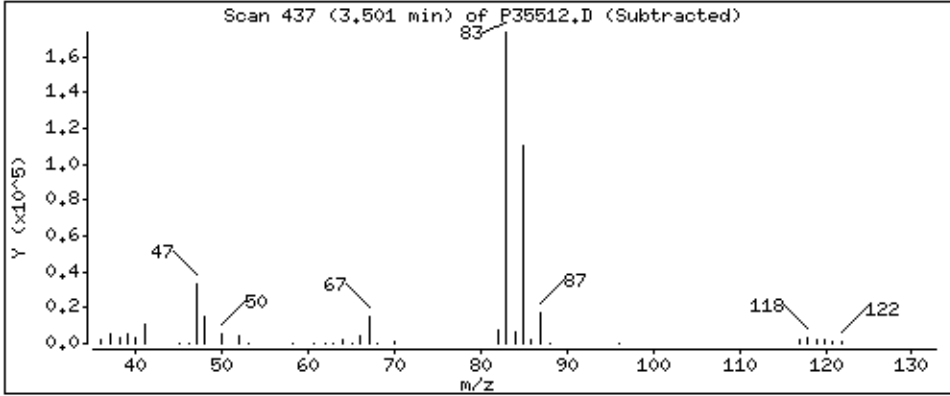
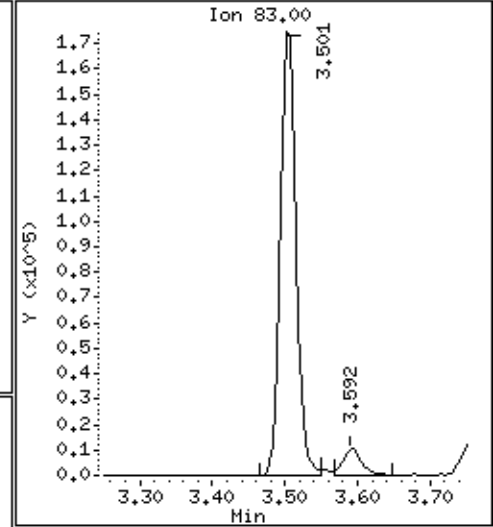
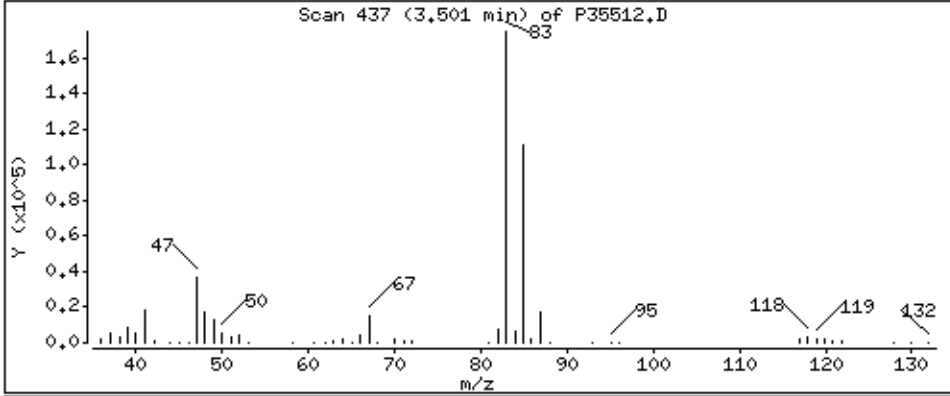
Column phase: RTX-624

Column diameter: 0.18

43 Chloroform

Concentration: 46.6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

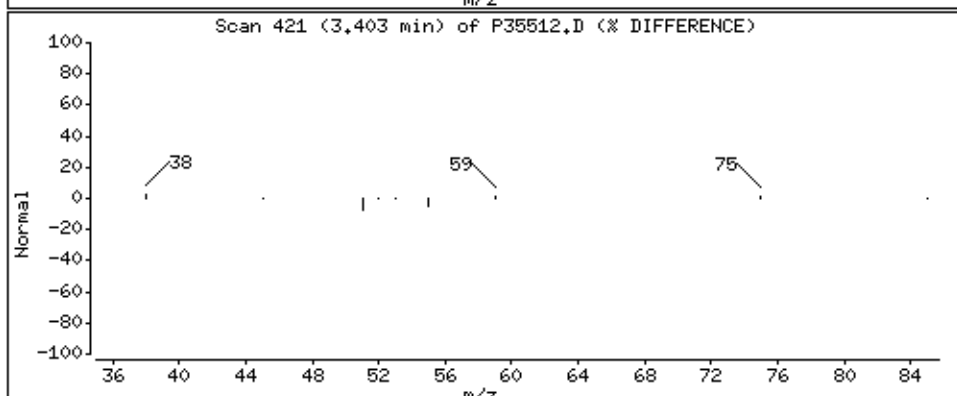
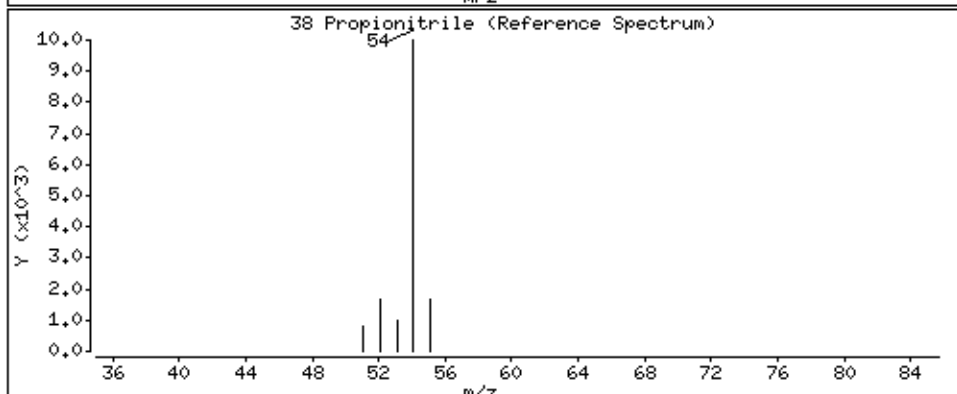
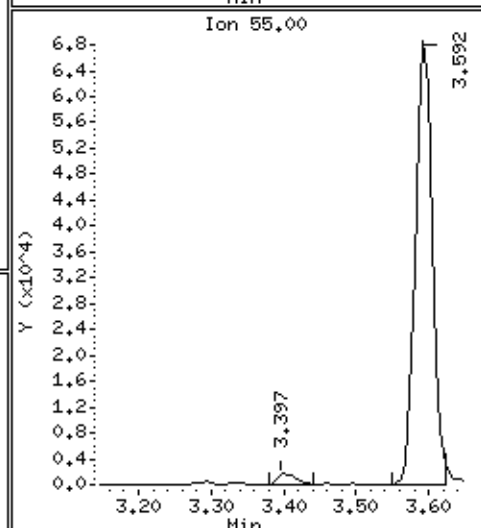
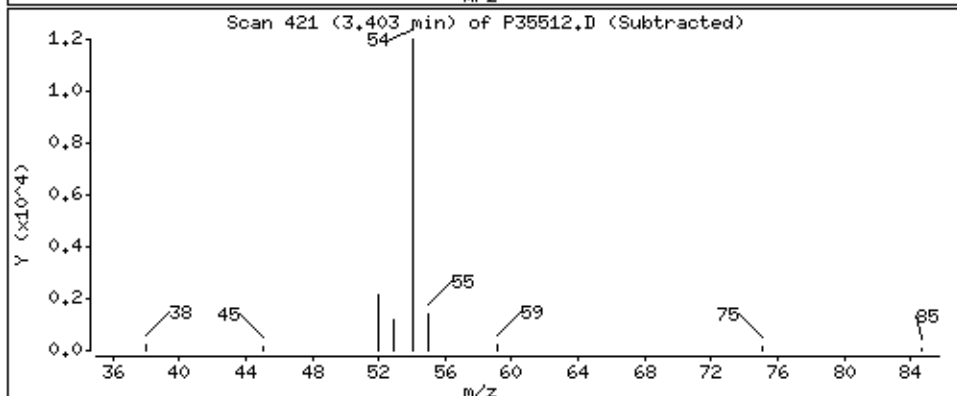
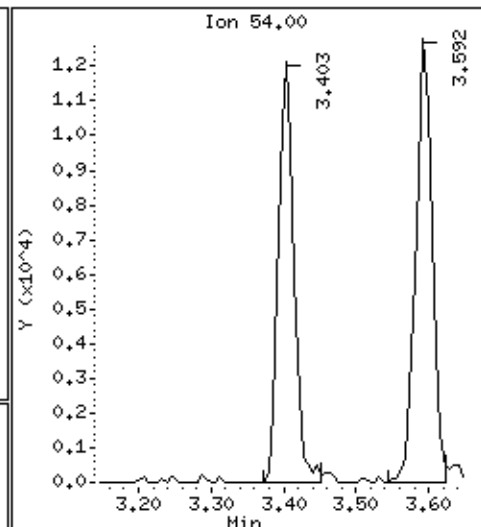
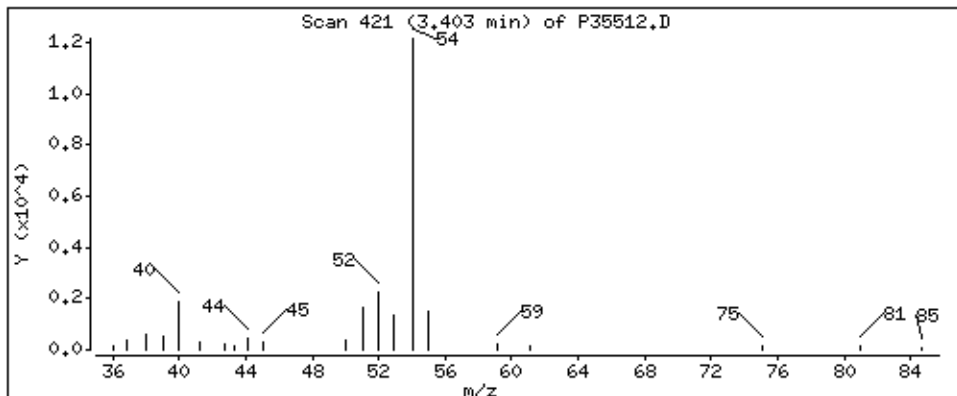
Column phase: RTX-624

Column diameter: 0,18

38 Propionitrile

Concentration: 45,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

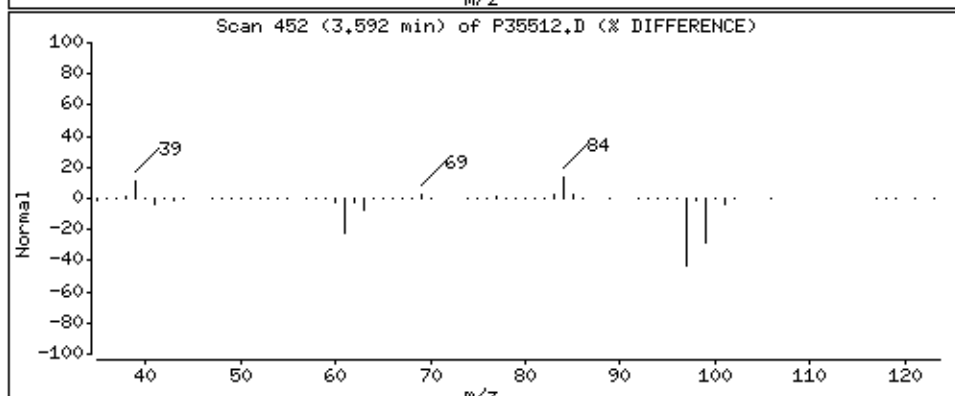
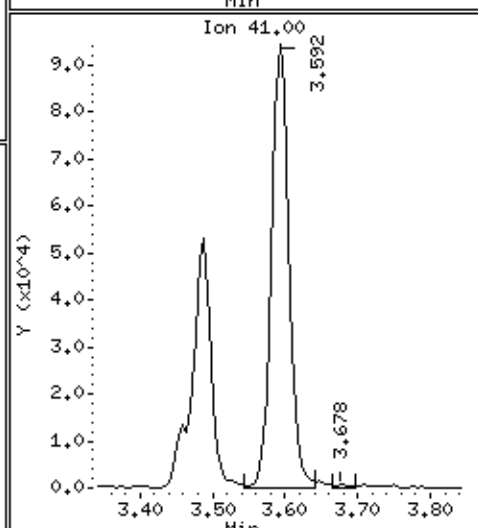
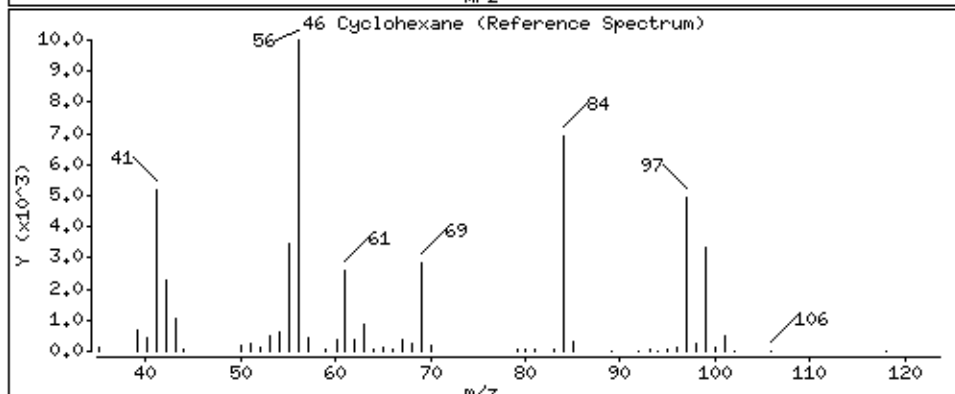
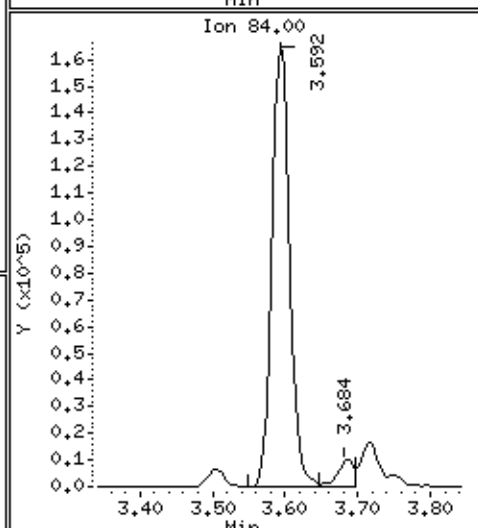
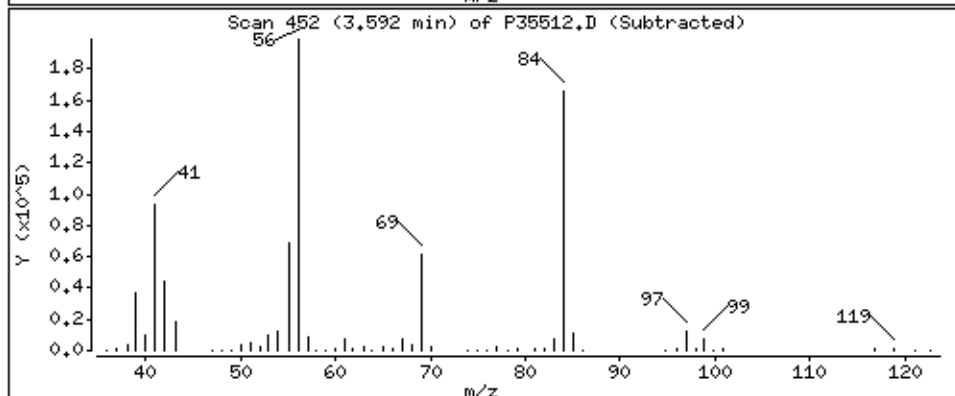
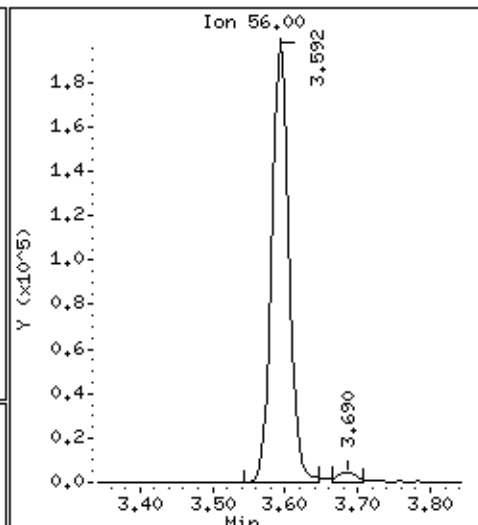
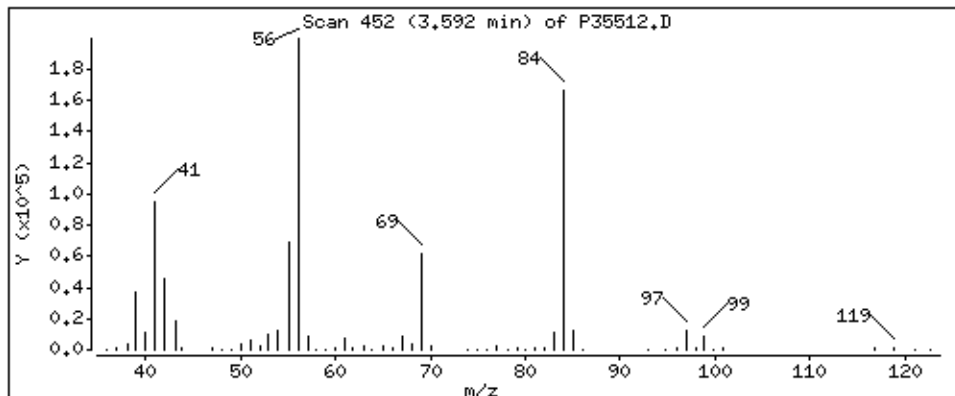
Column phase: RTX-624

Column diameter: 0.18

46 Cyclohexane

Concentration: 43.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

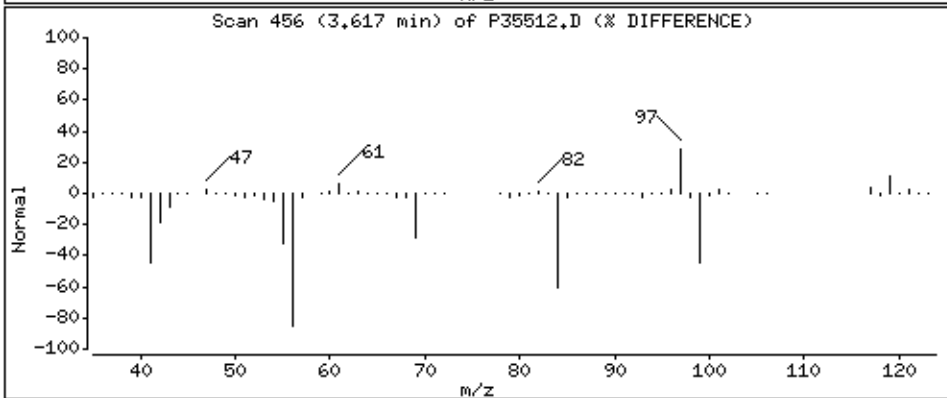
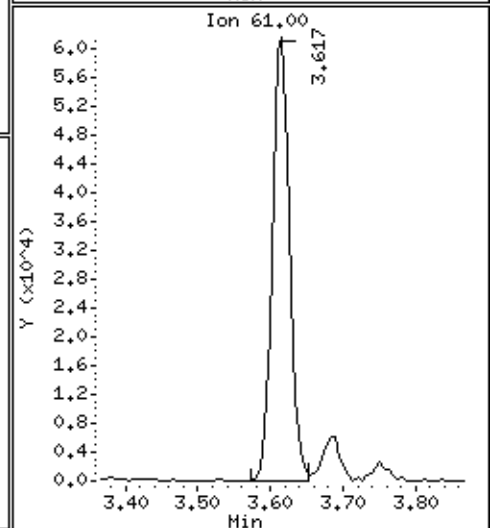
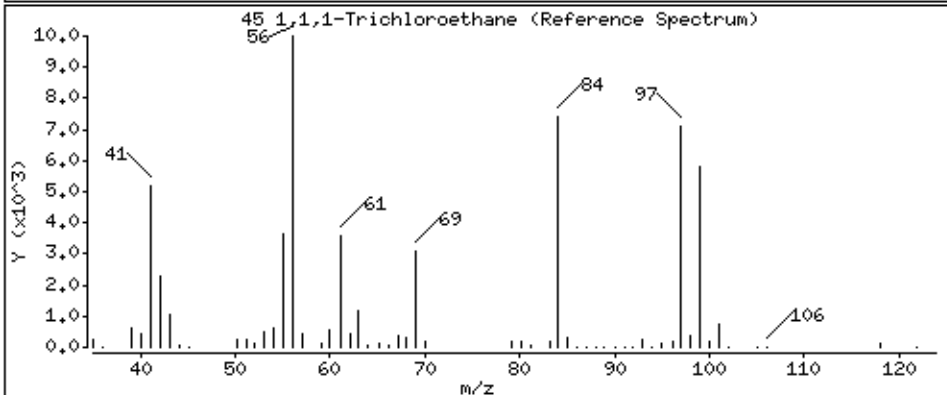
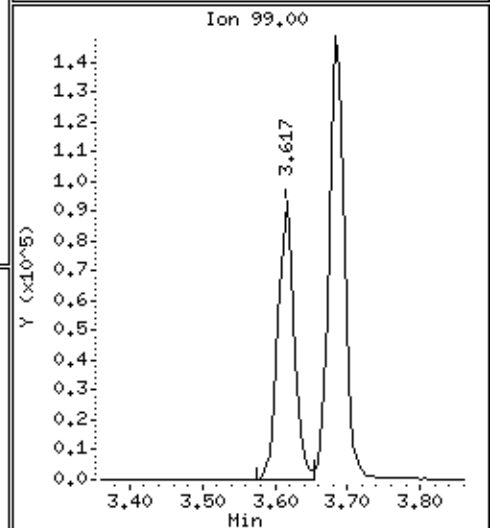
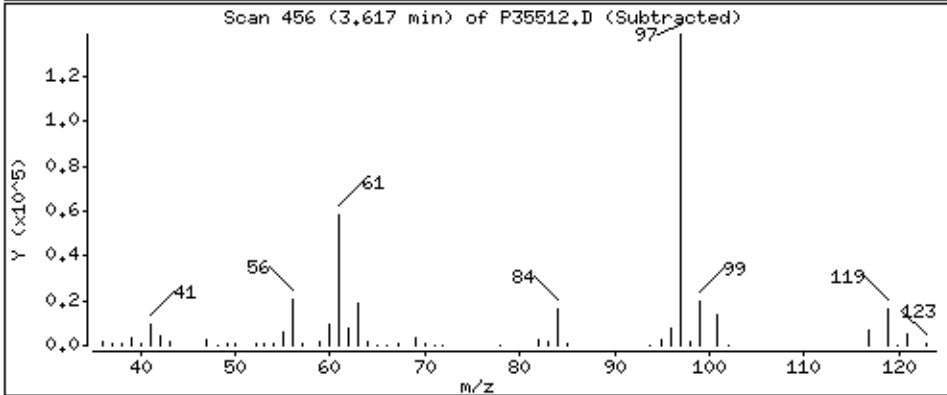
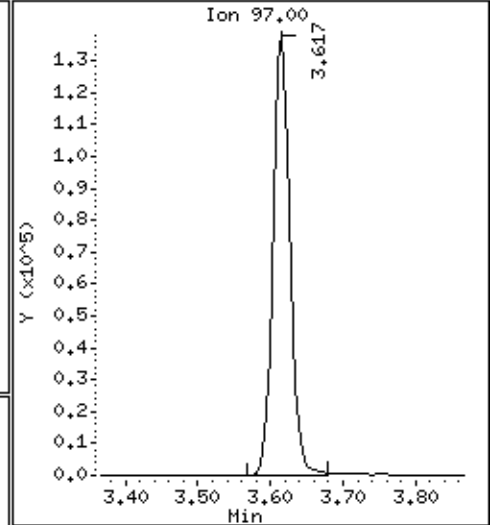
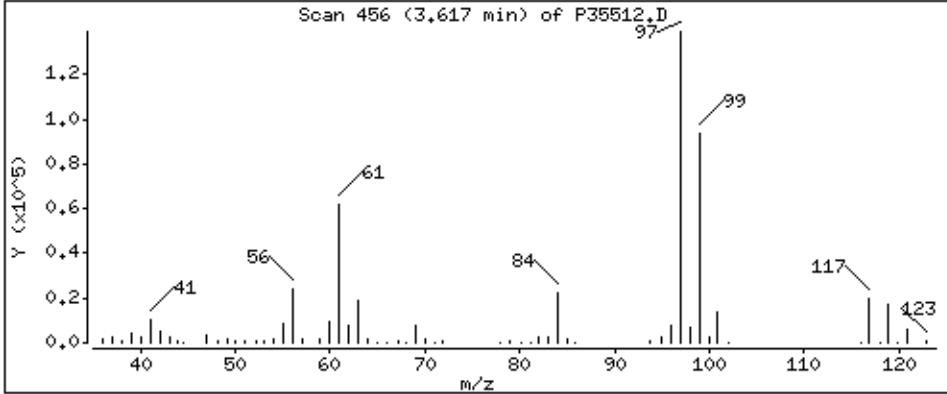
Column phase: RTX-624

Column diameter: 0,18

45 1,1,1-Trichloroethane

Concentration: 47.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

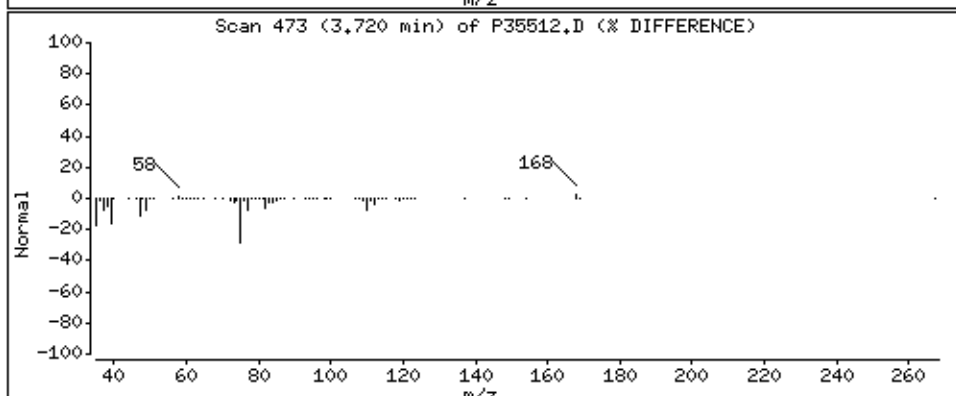
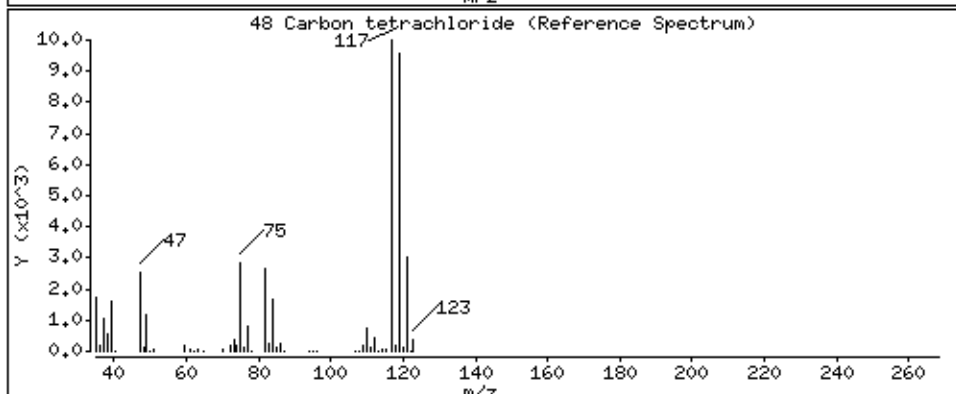
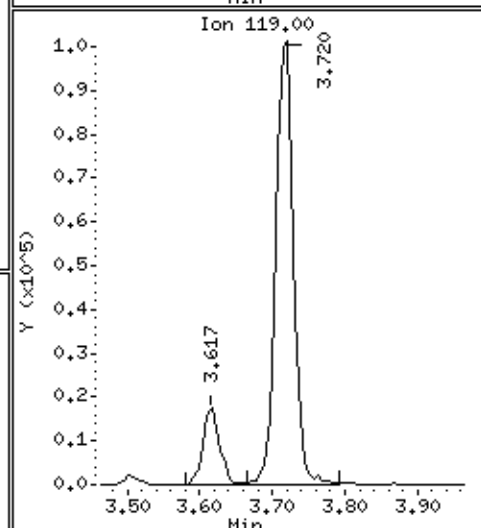
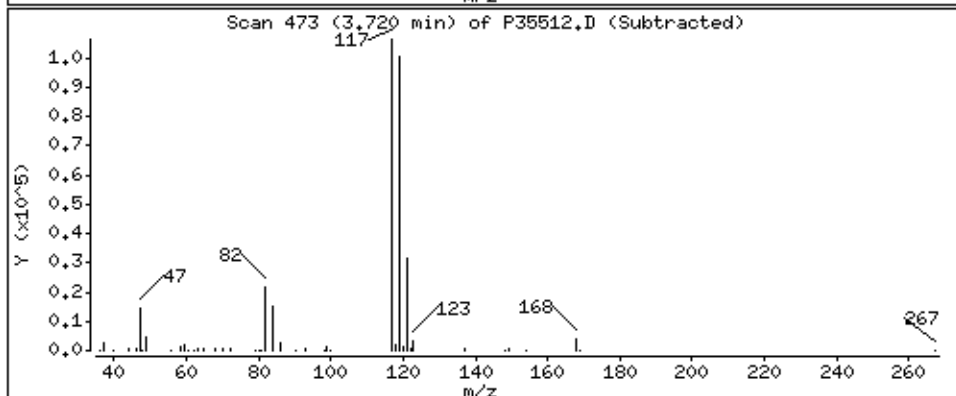
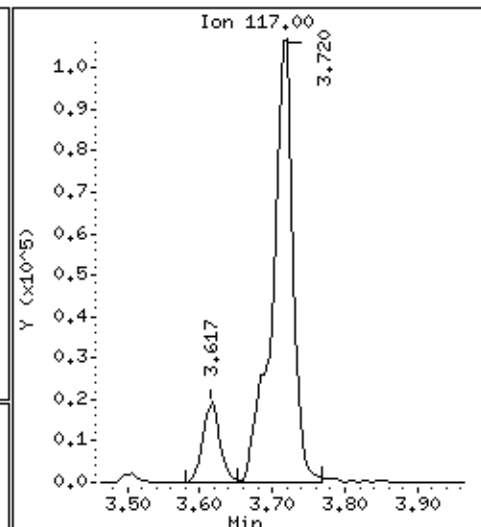
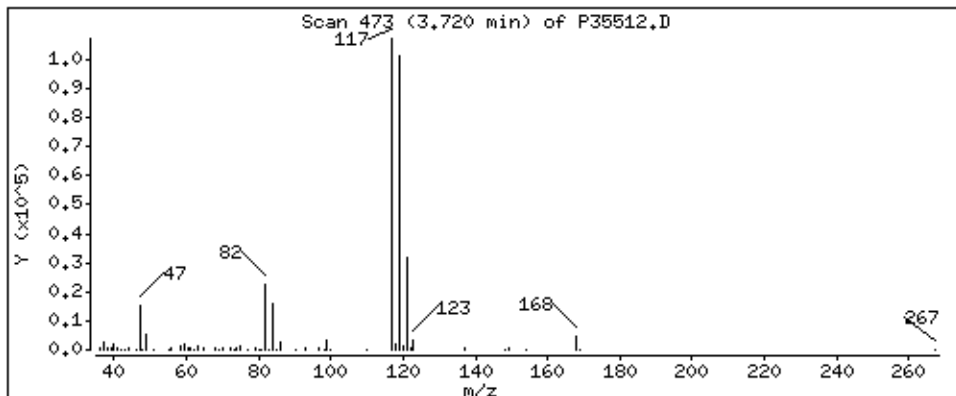
Column phase: RTX-624

Column diameter: 0,18

48 Carbon tetrachloride

Concentration: 50,4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

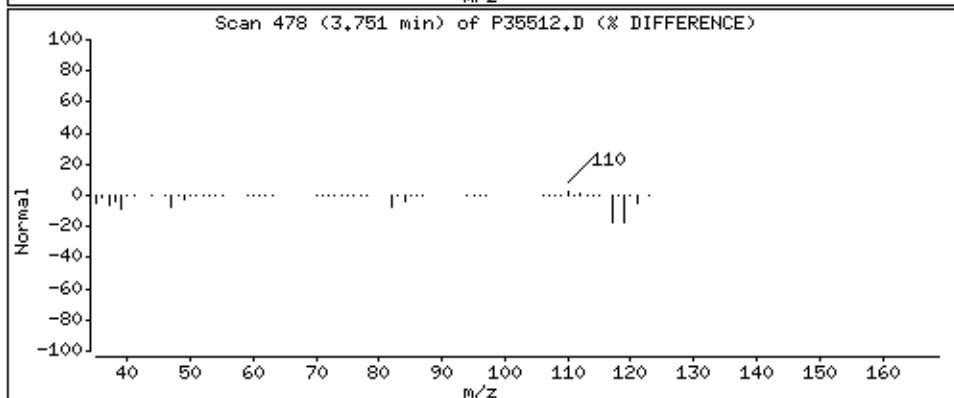
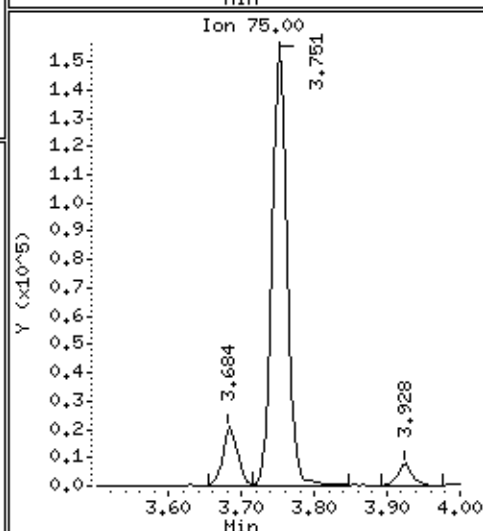
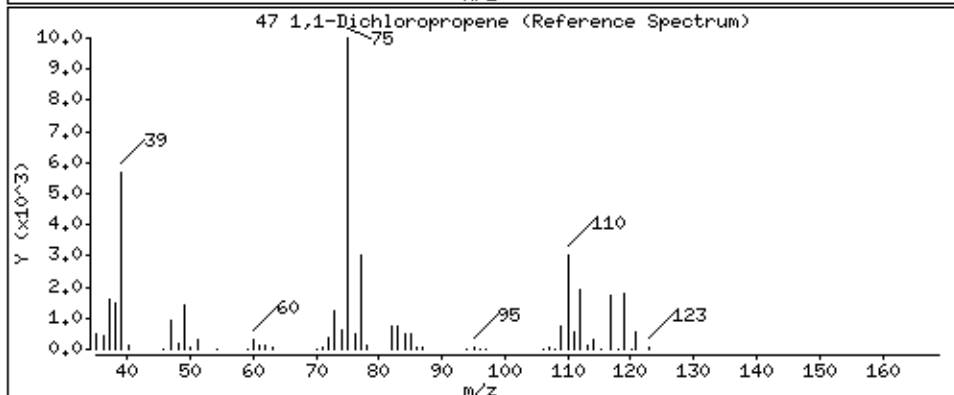
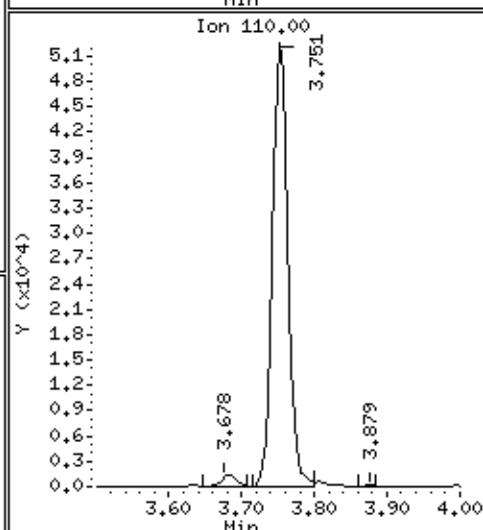
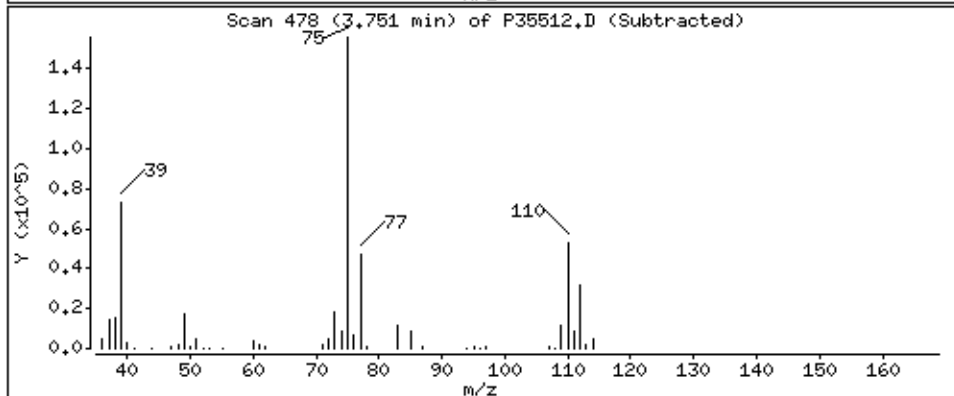
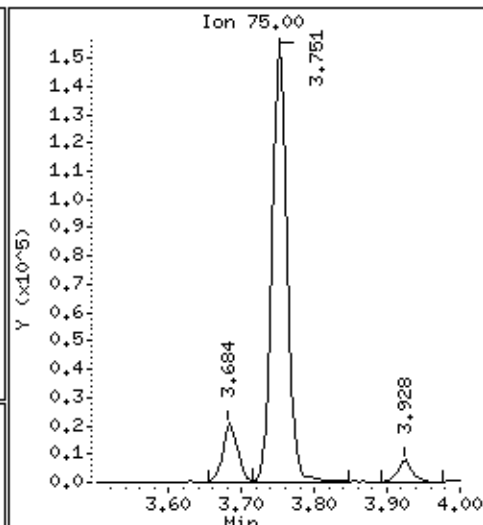
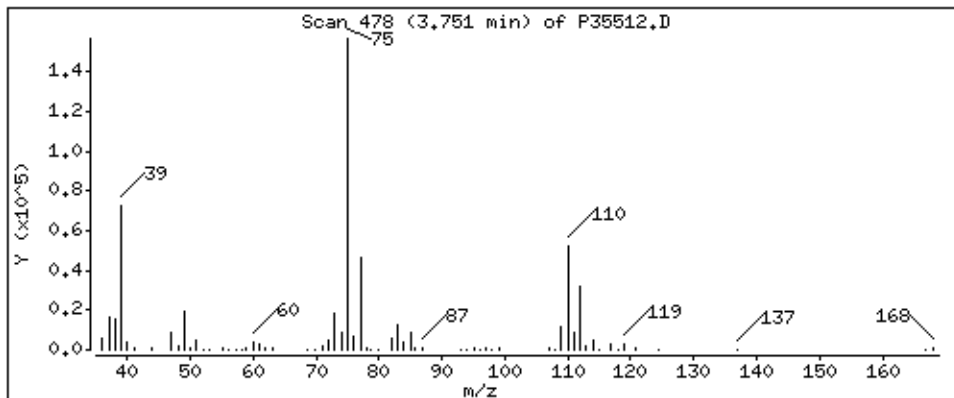
Column phase: RTX-624

Column diameter: 0,18

47 1,1-Dichloropropene

Concentration: 43.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

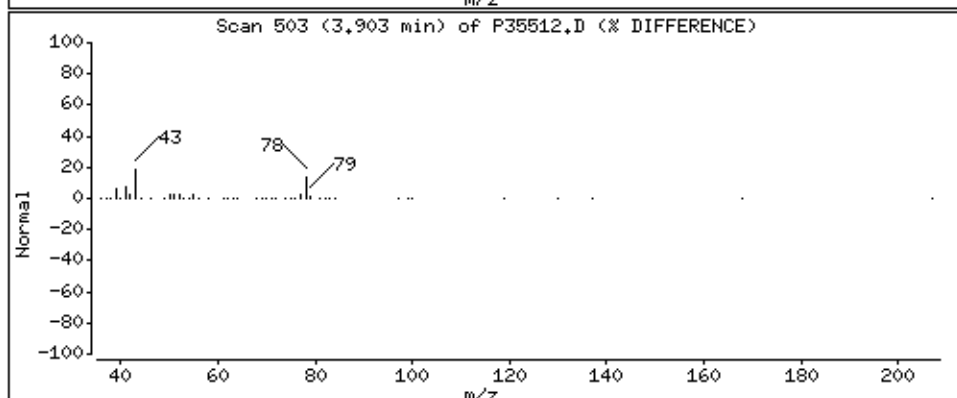
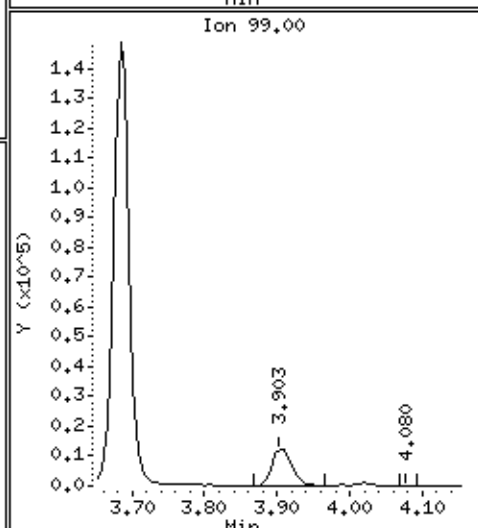
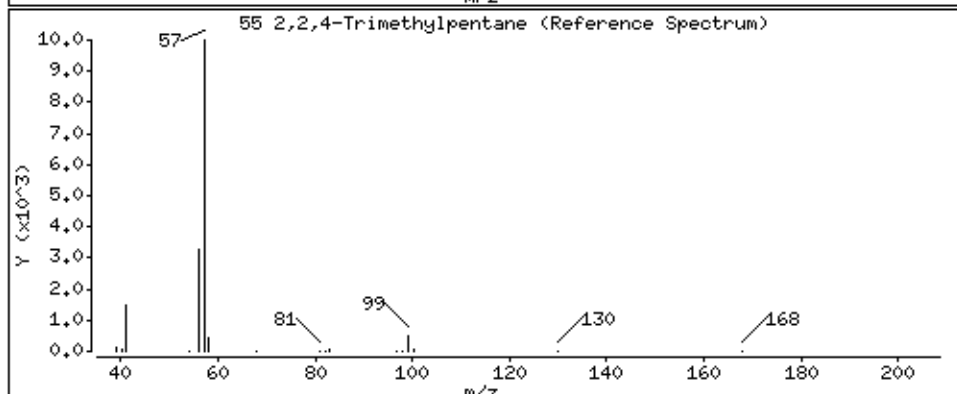
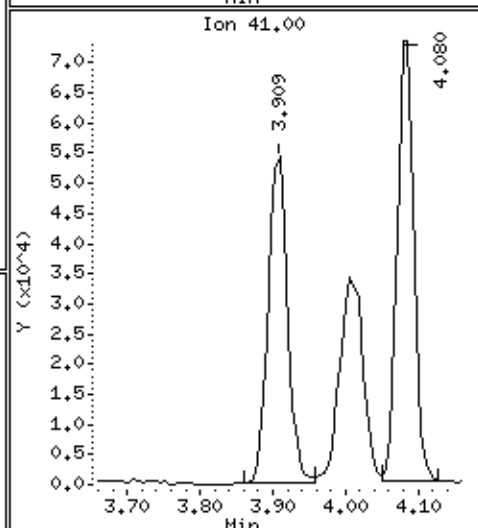
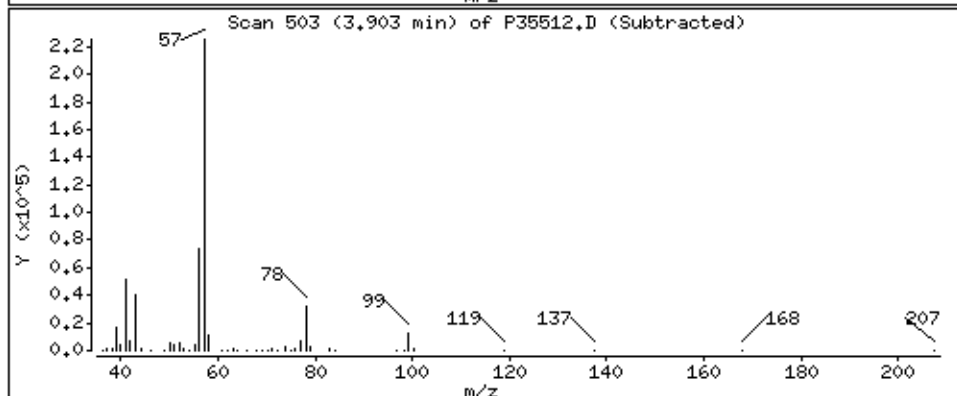
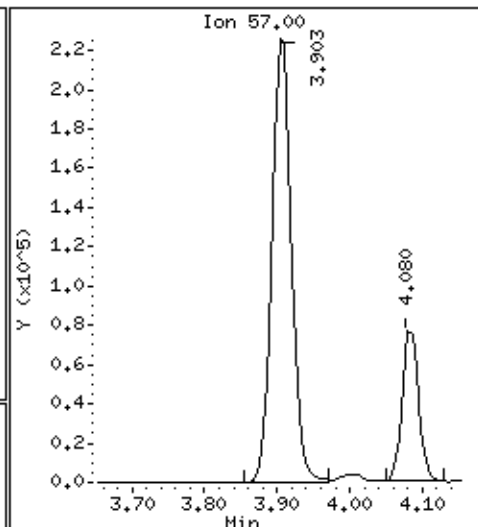
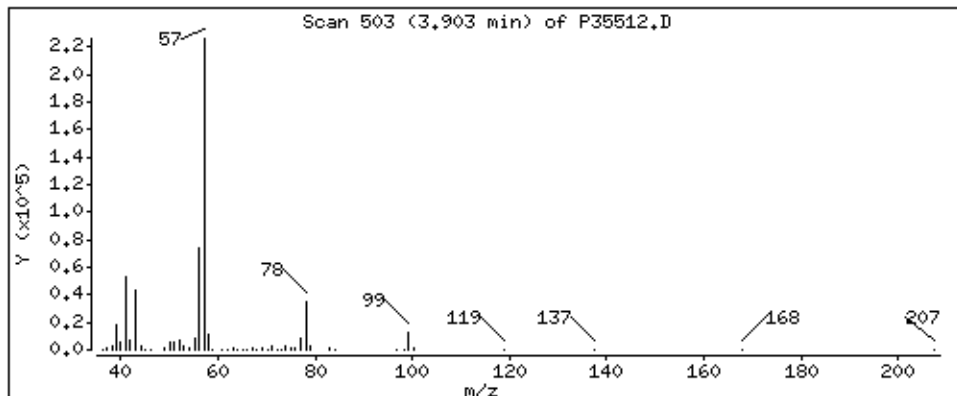
Column phase: RTX-624

Column diameter: 0,18

55 2,2,4-Trimethylpentane

Concentration: 42.4 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1,25

Purge Volume: 5.0

Operator: KGG

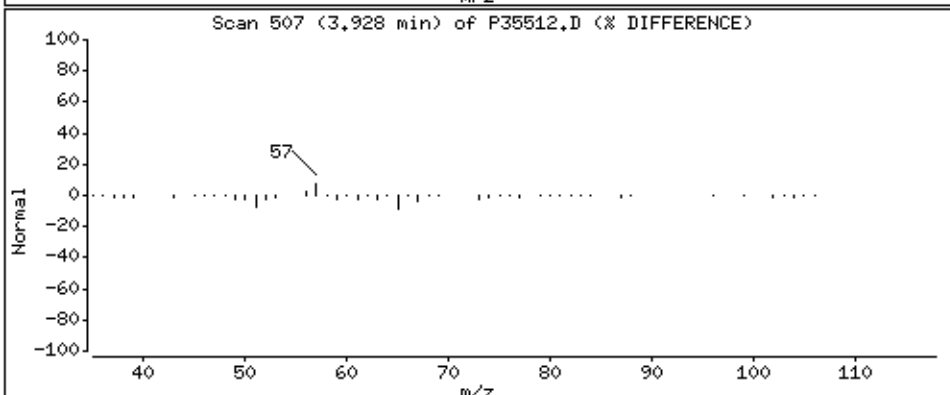
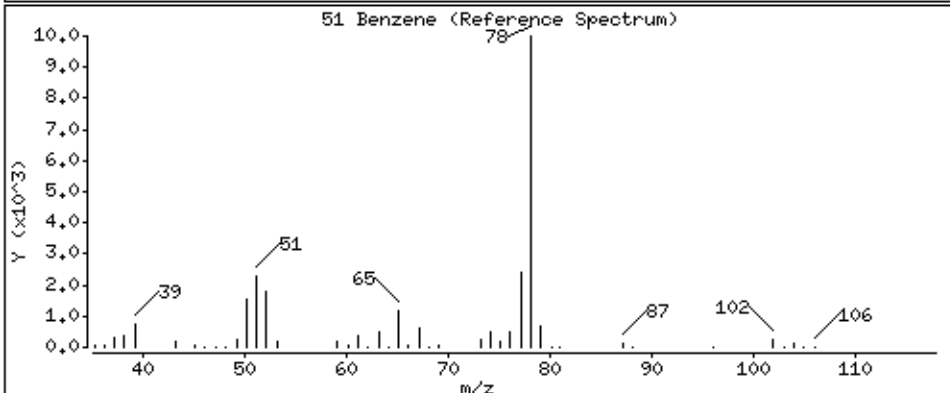
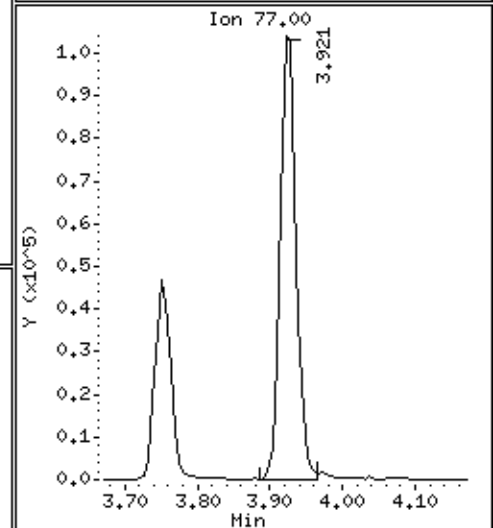
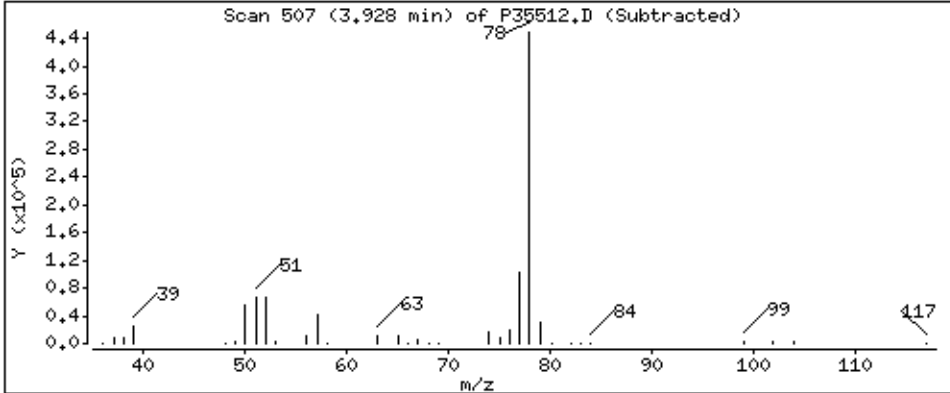
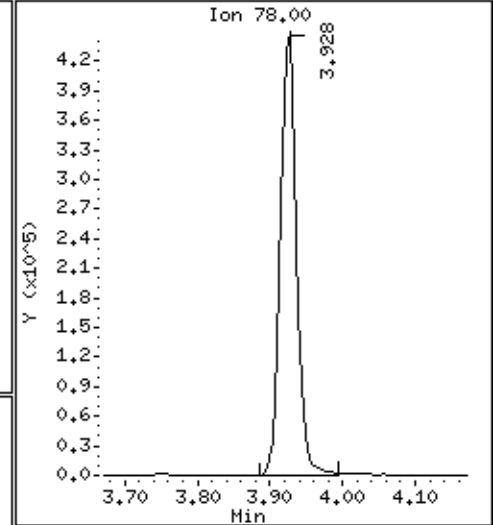
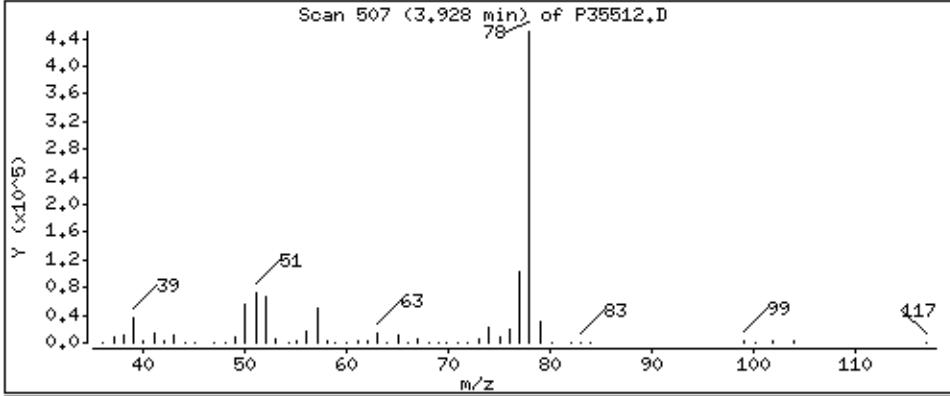
Column phase: RTX-624

Column diameter: 0,18

51 Benzene

Concentration: 49,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

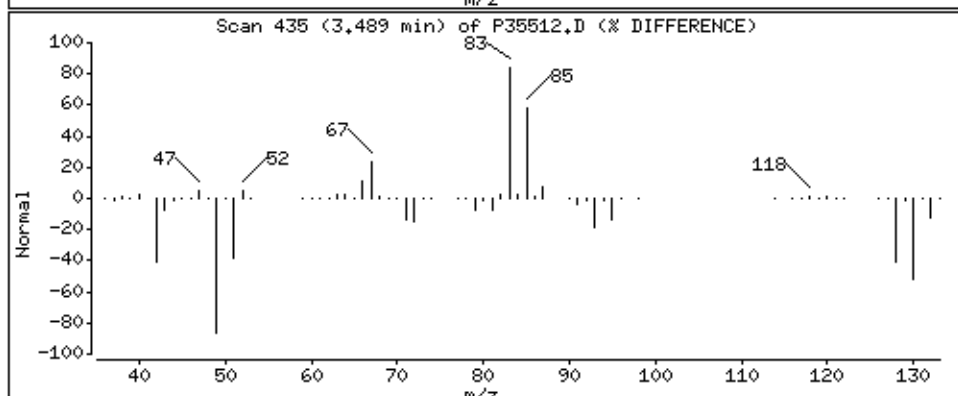
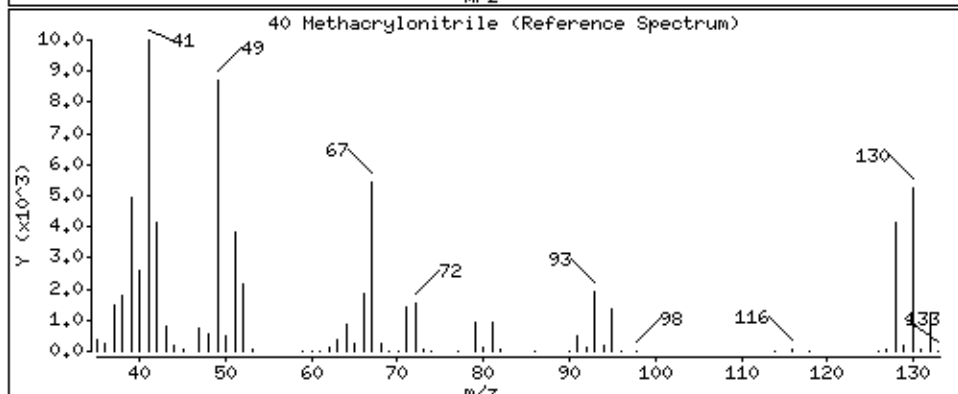
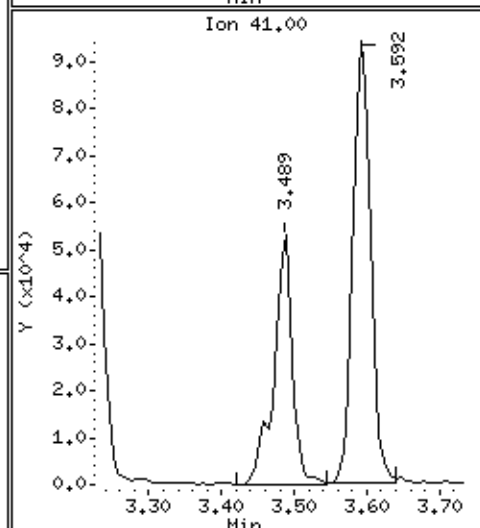
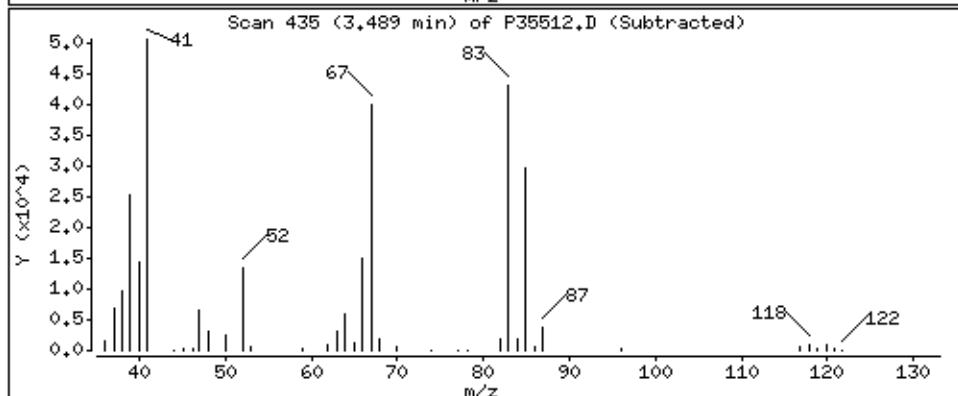
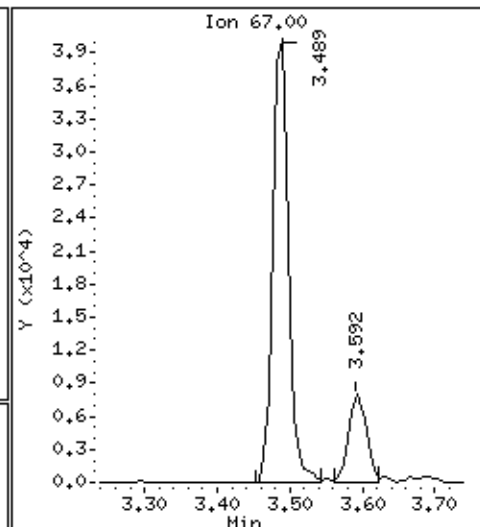
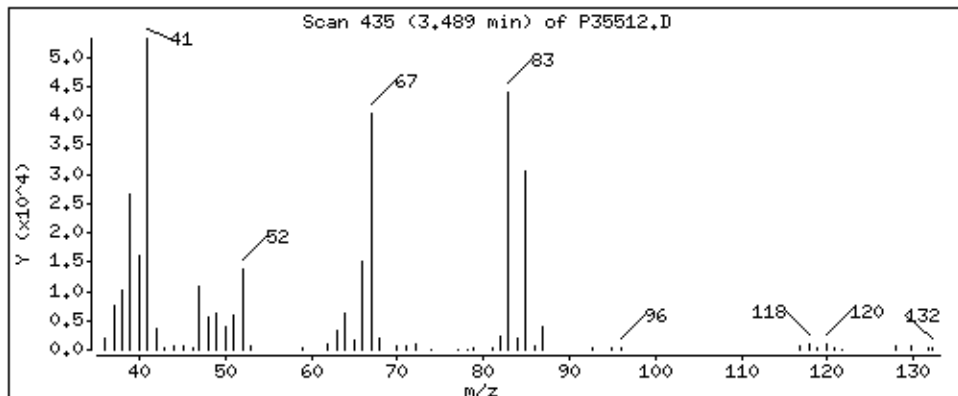
Column phase: RTX-624

Column diameter: 0,18

40 Methacrylonitrile

Concentration: 47,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

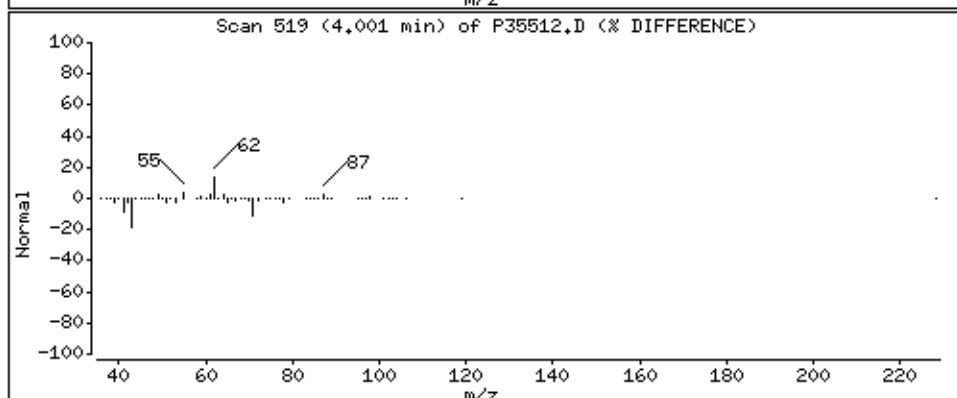
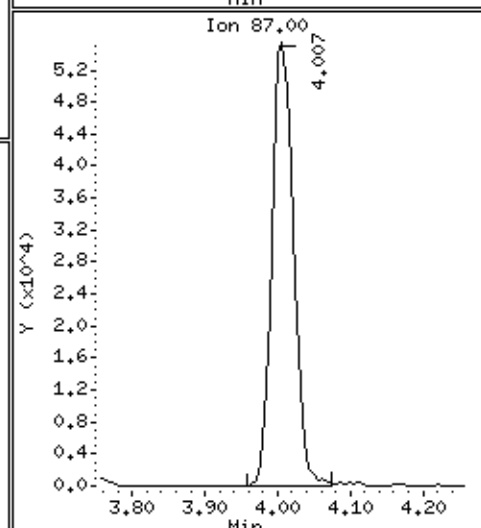
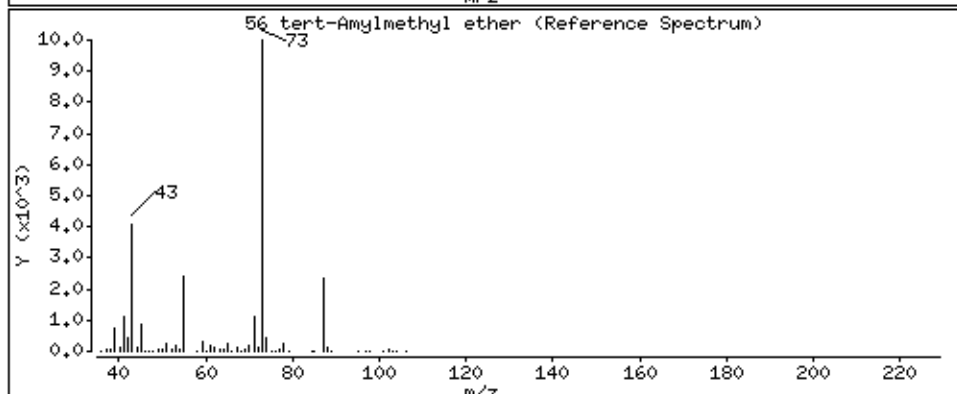
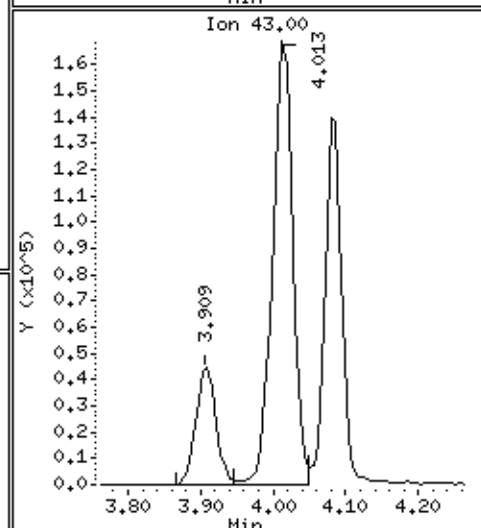
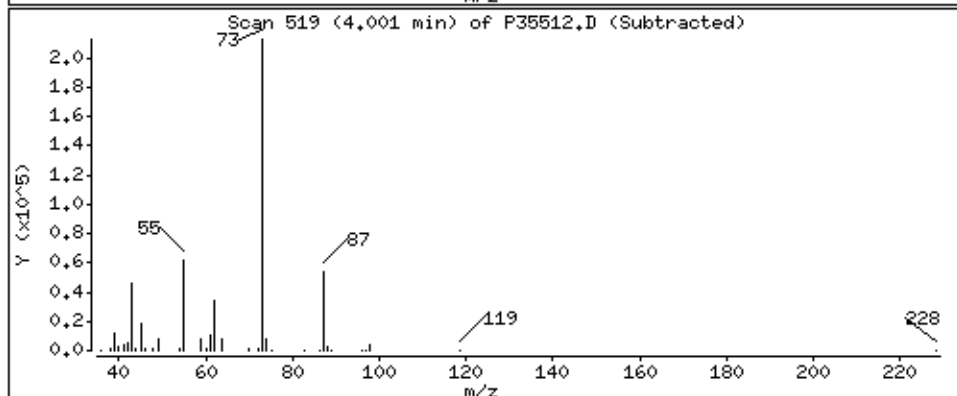
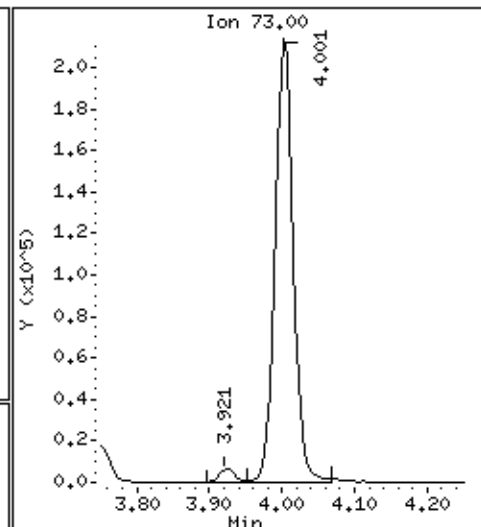
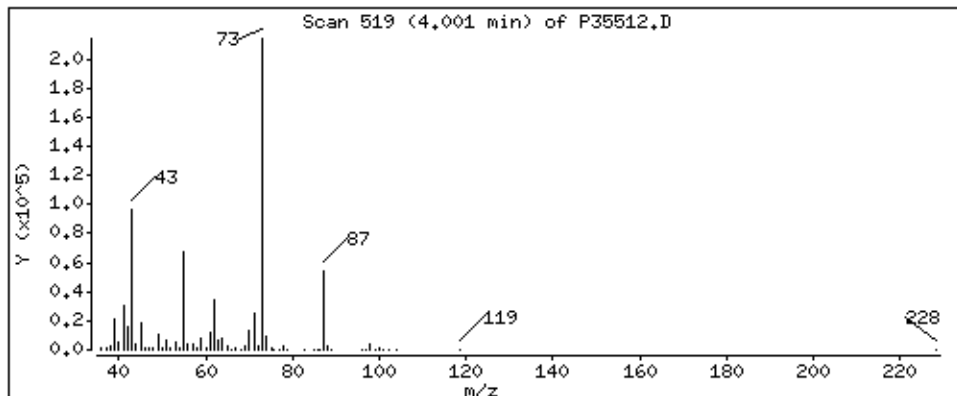
Column phase: RTX-624

Column diameter: 0.18

56 tert-Amylmethyl ether

Concentration: 41.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

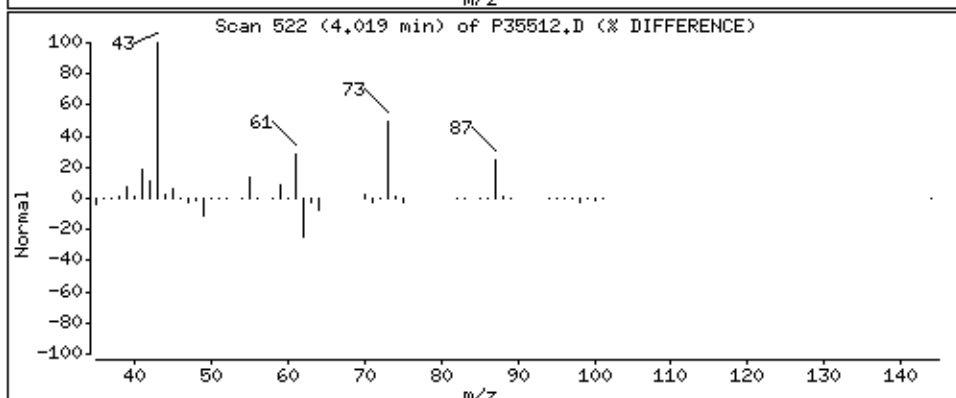
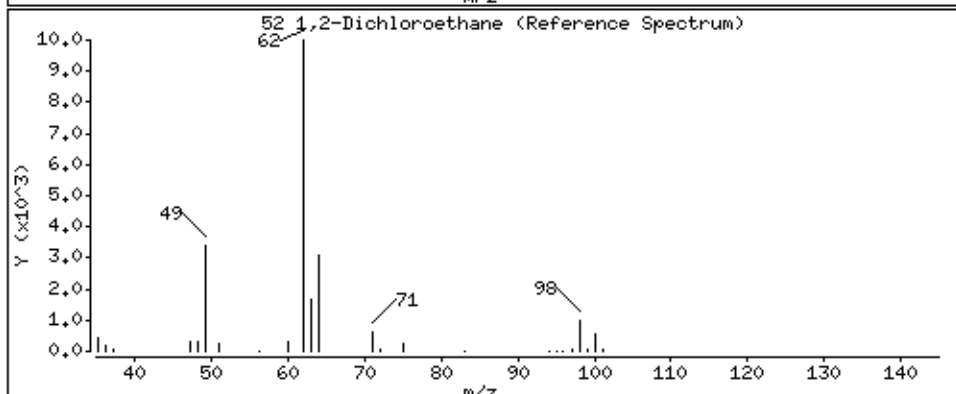
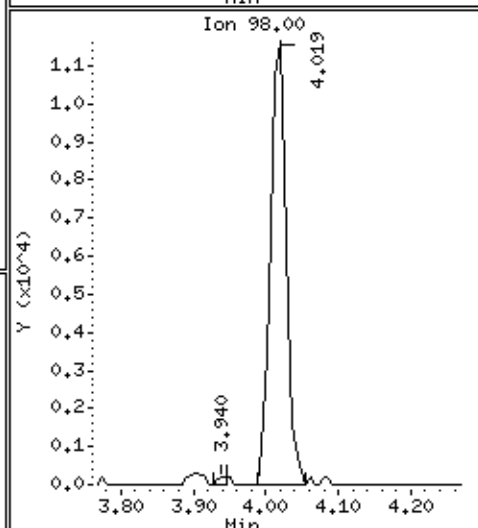
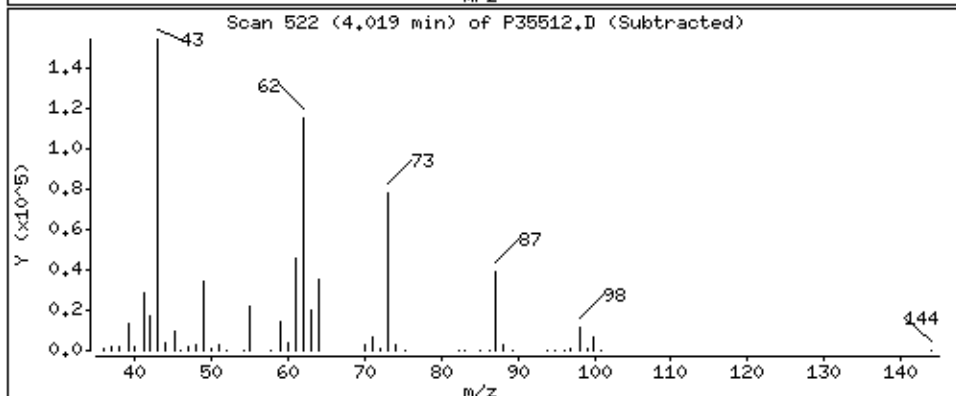
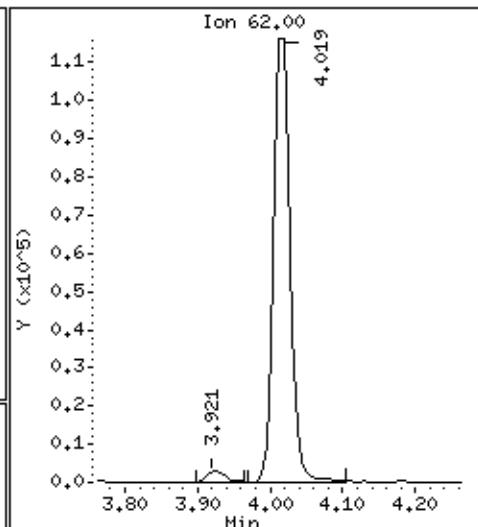
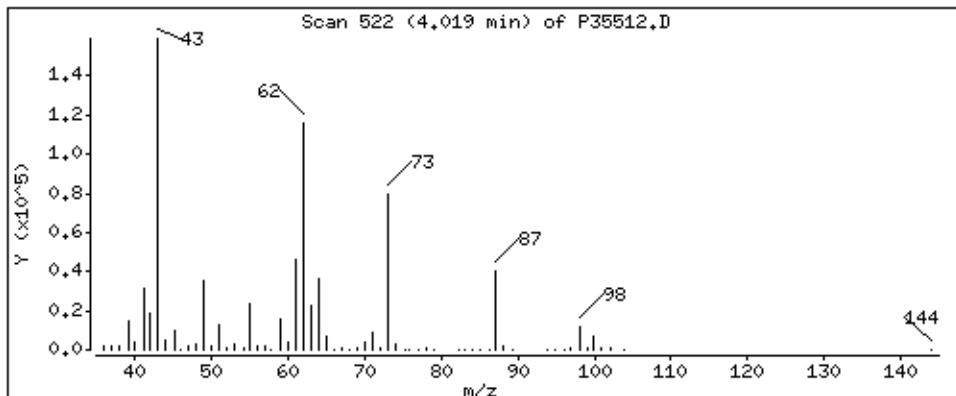
Column phase: RTX-624

Column diameter: 0,18

52 1,2-Dichloroethane

Concentration: 44,8 ug/L

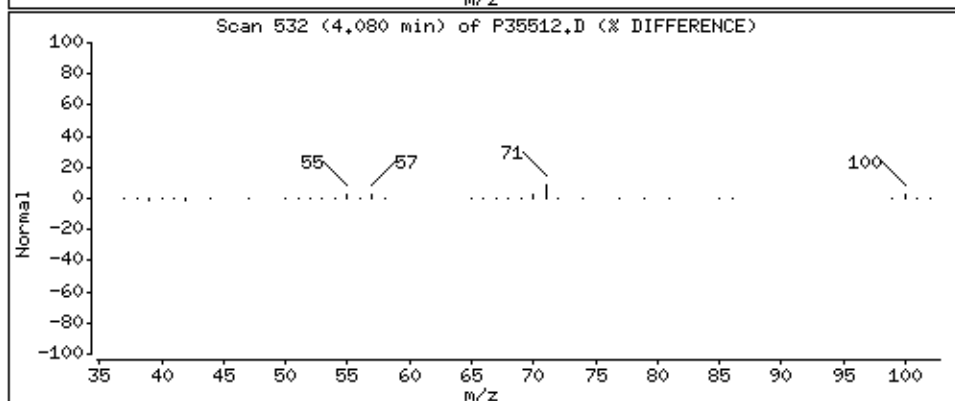
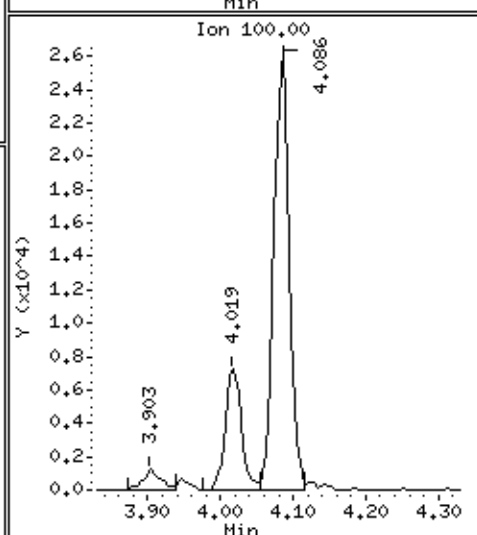
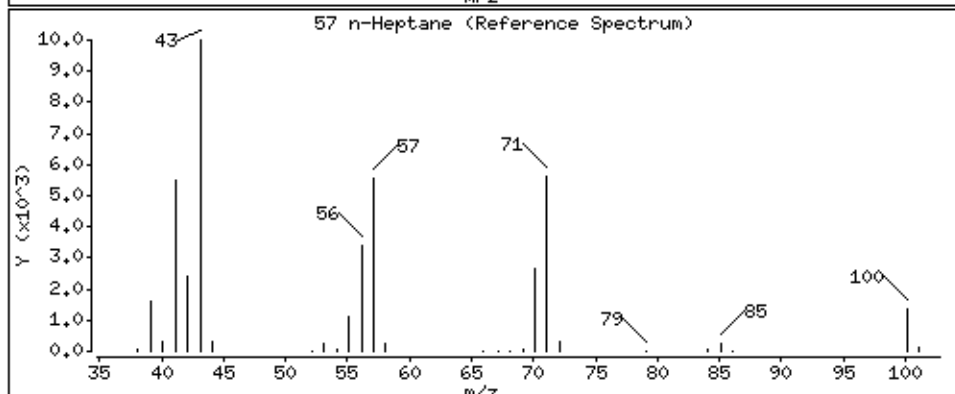
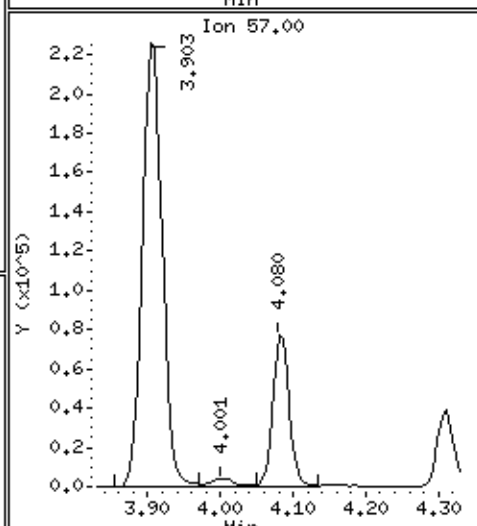
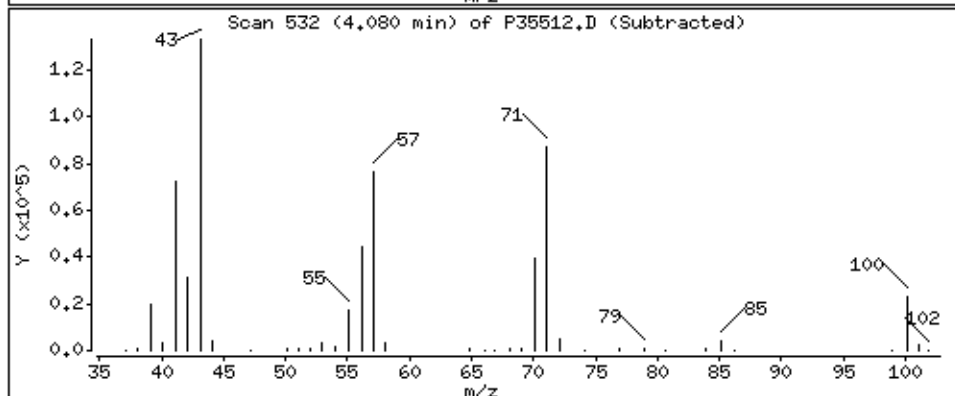
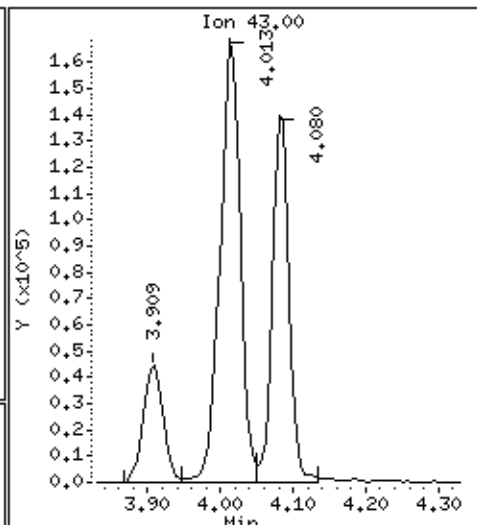
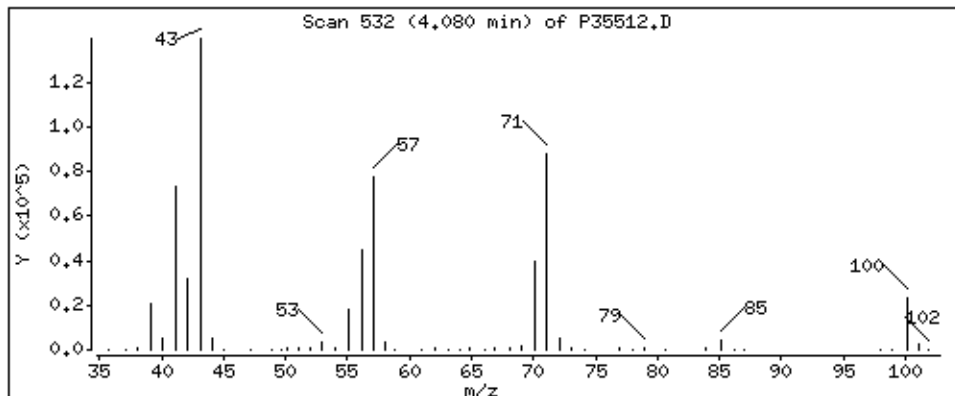
Review Code:



57 n-Heptane

Concentration: 39,5 ug/L

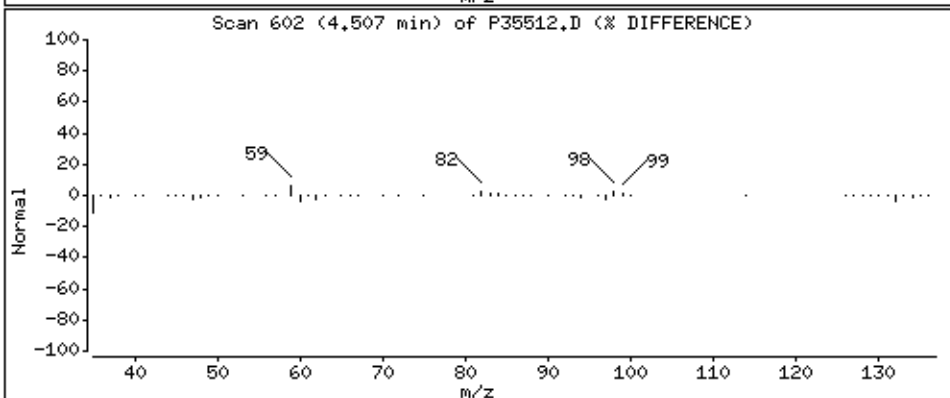
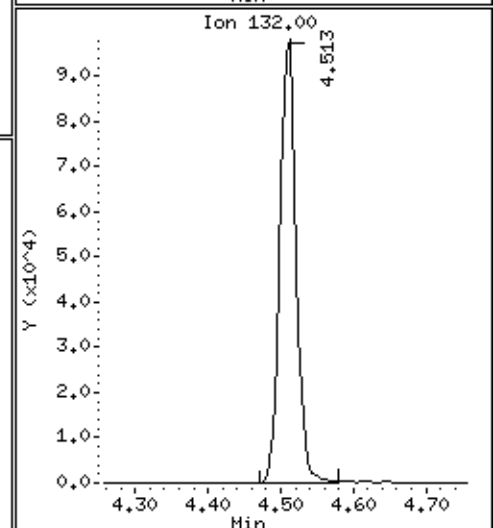
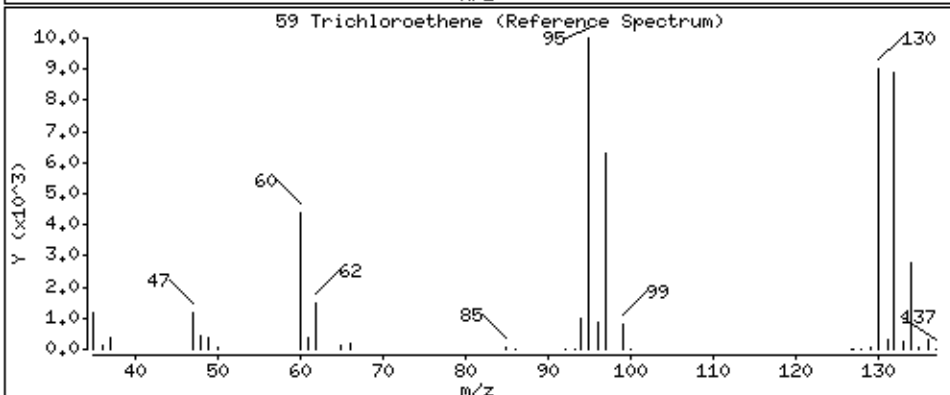
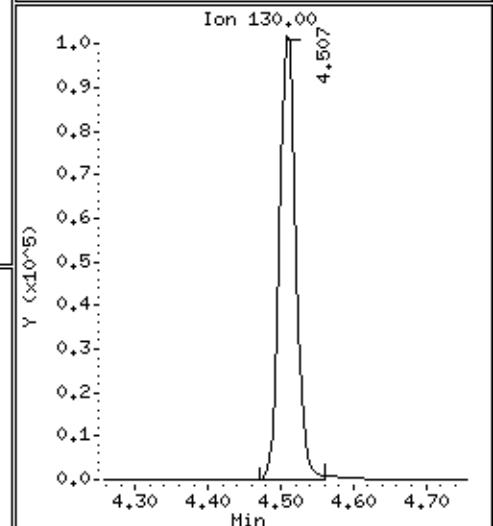
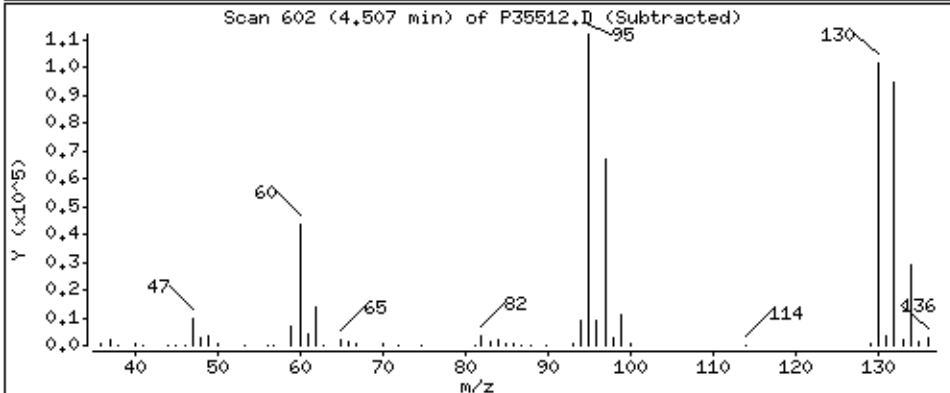
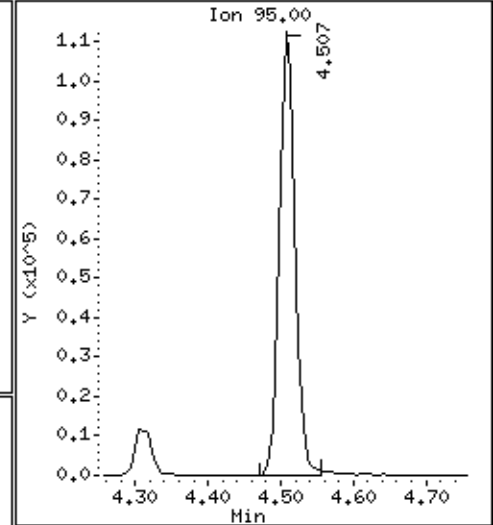
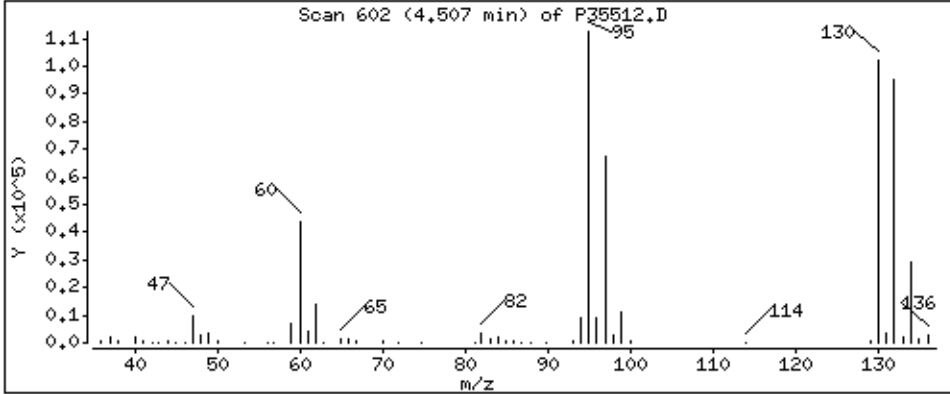
Review Code:



59 Trichloroethene

Concentration: 46,3 ug/L

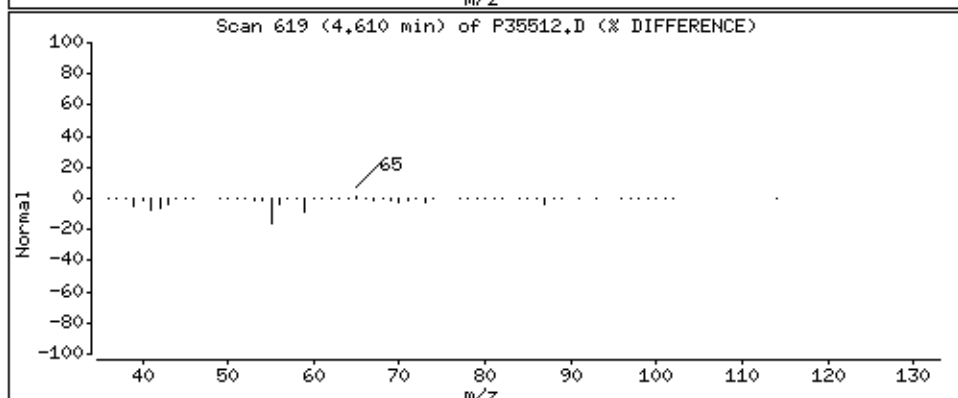
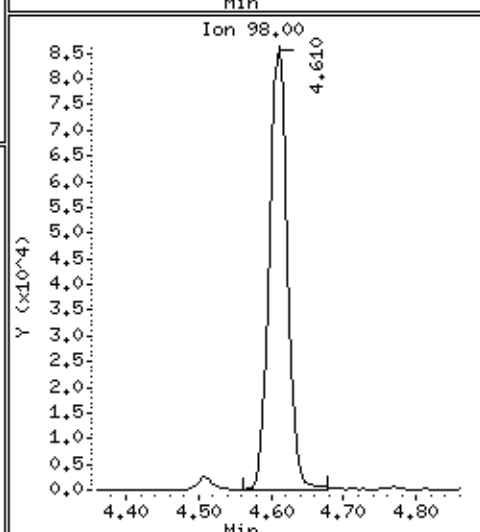
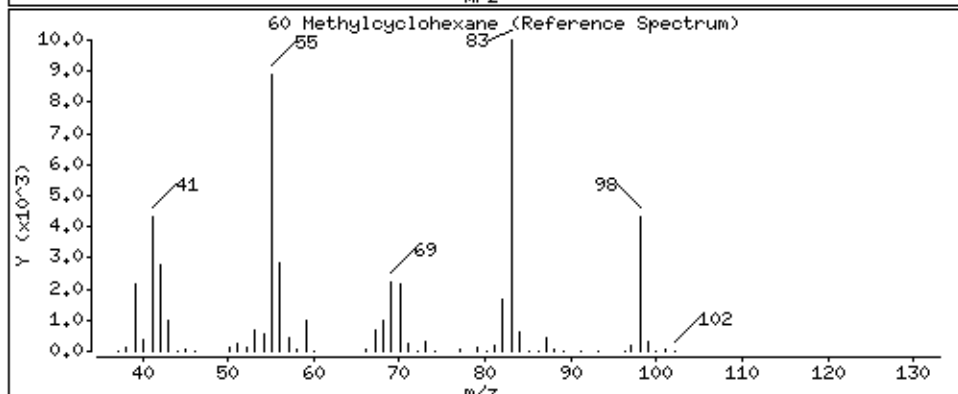
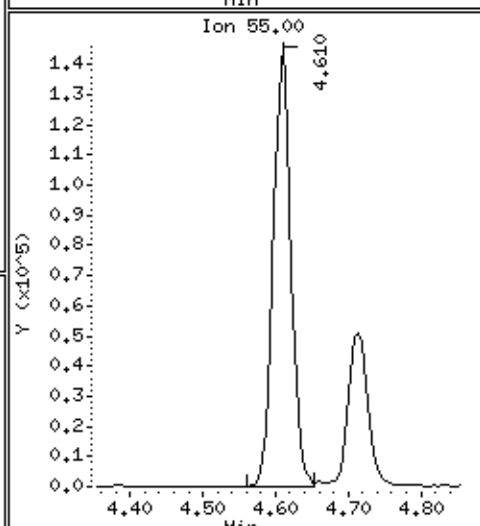
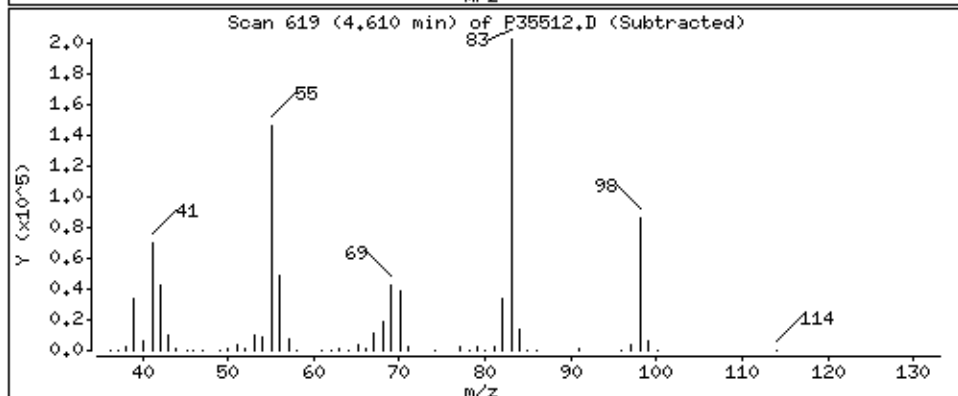
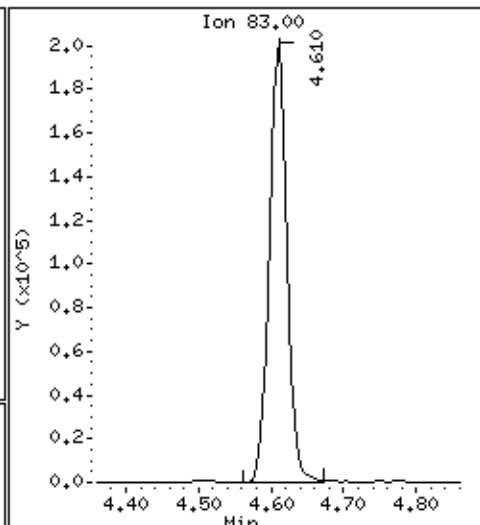
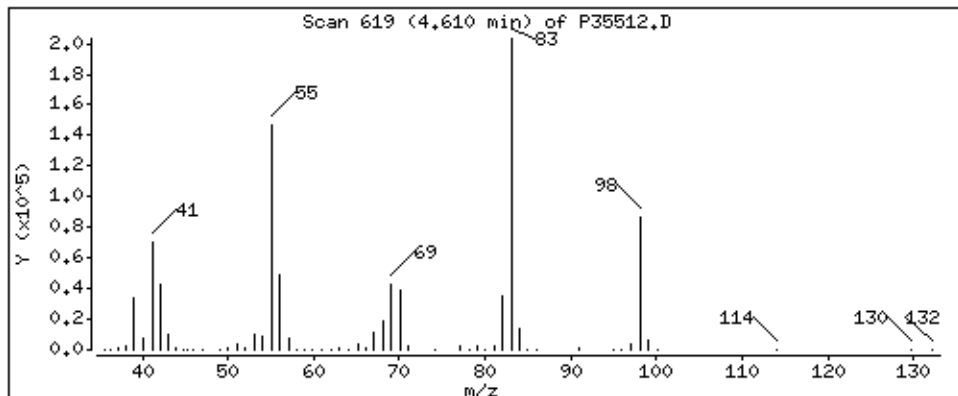
Review Code:



60 Methylcyclohexane

Concentration: 46,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

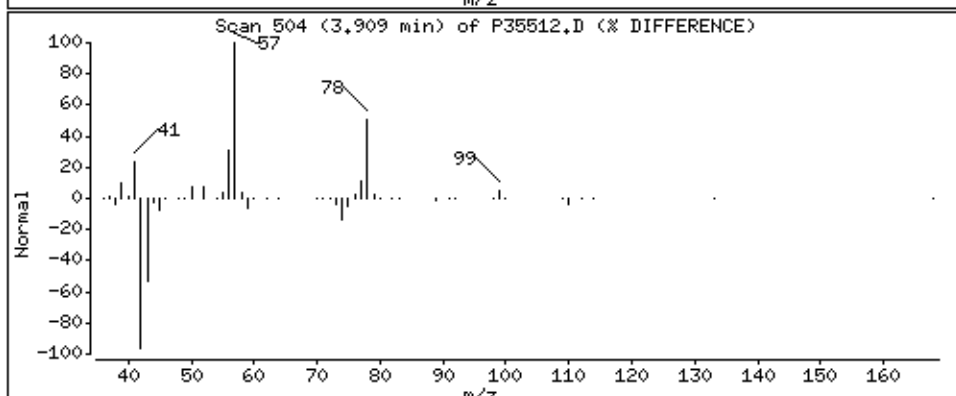
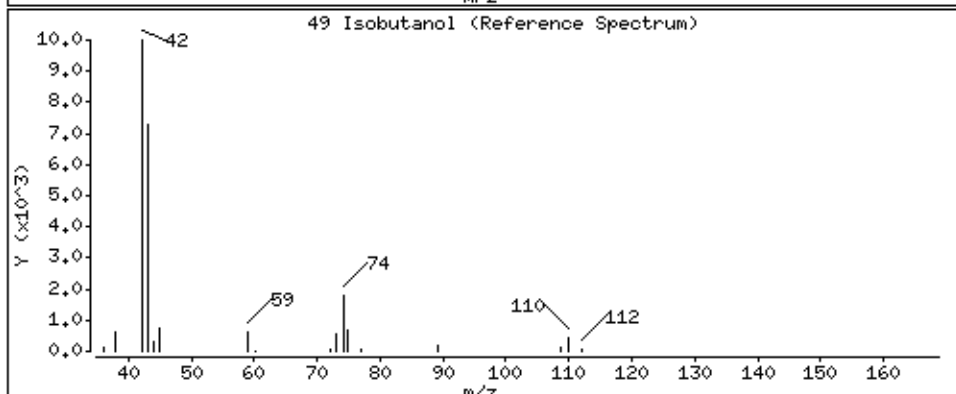
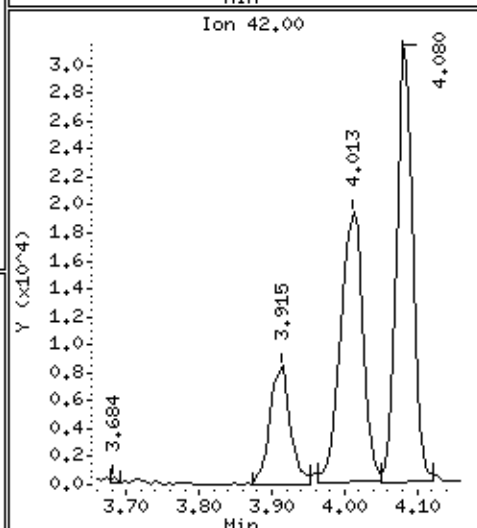
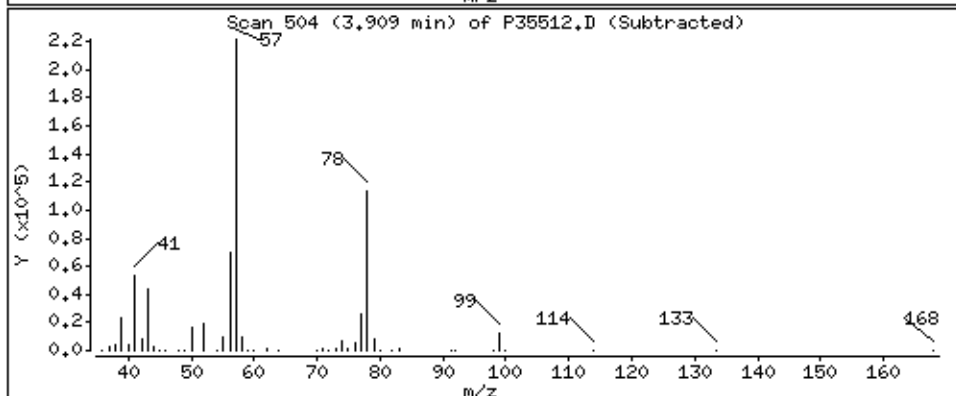
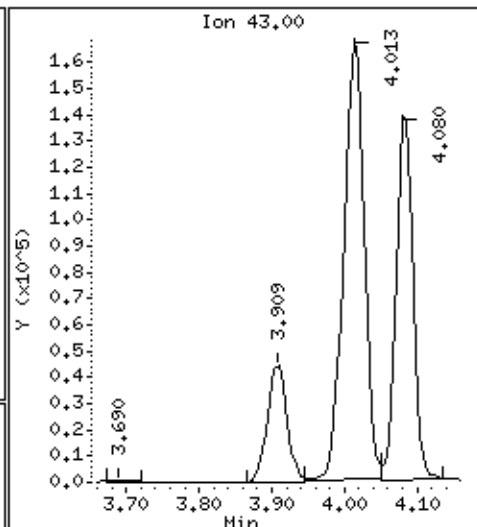
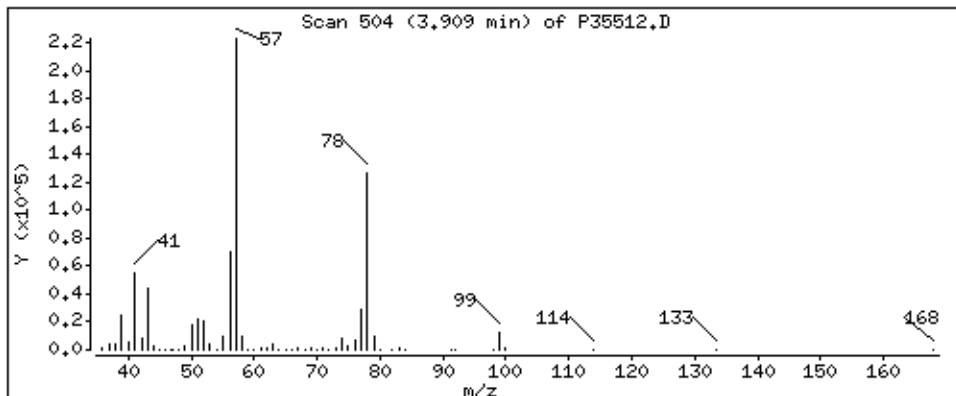
Column phase: RTX-624

Column diameter: 0,18

49 Isobutanol

Concentration: 186 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

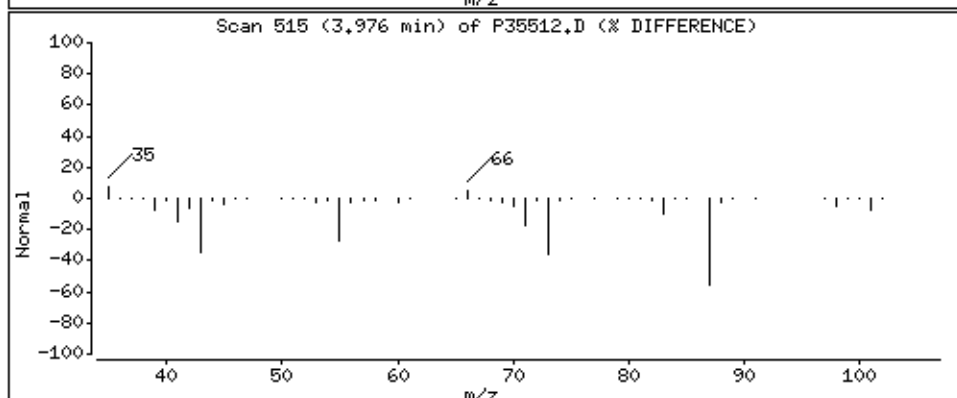
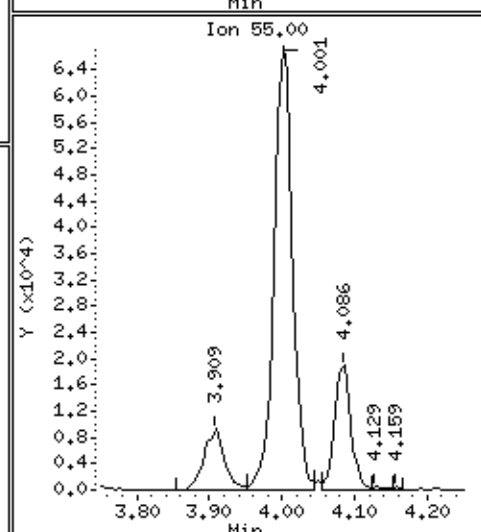
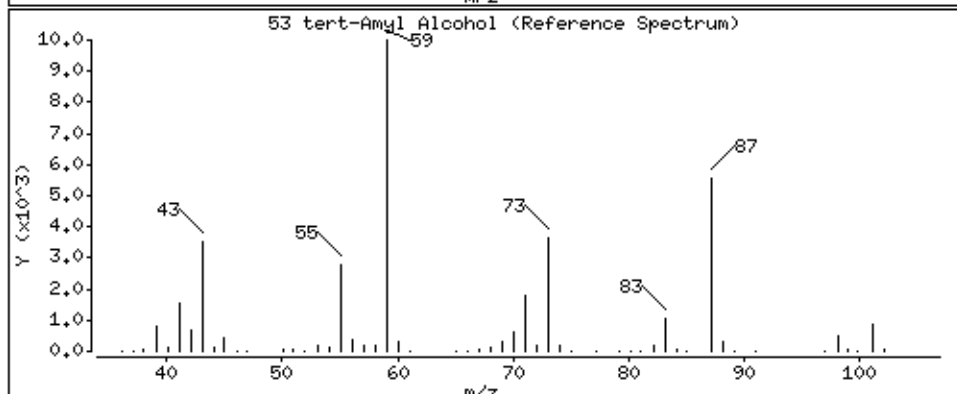
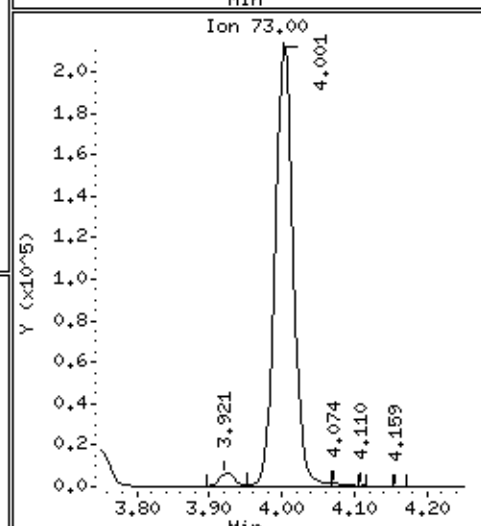
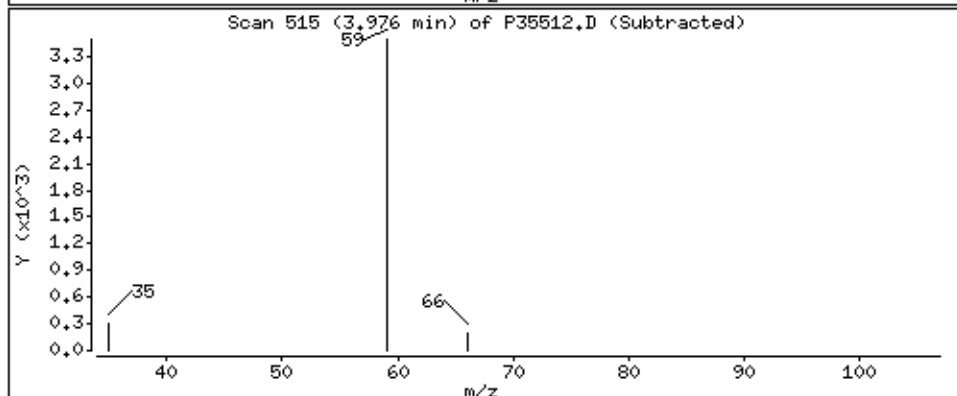
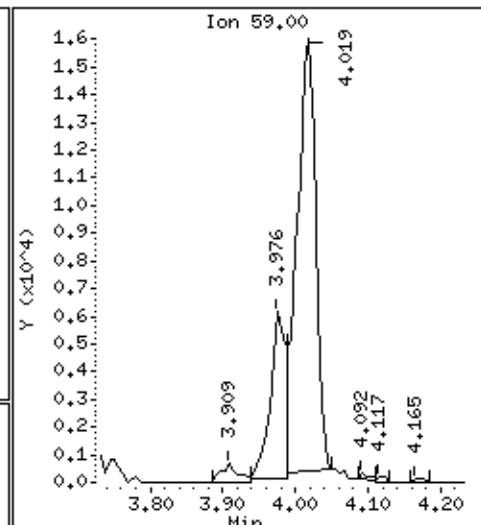
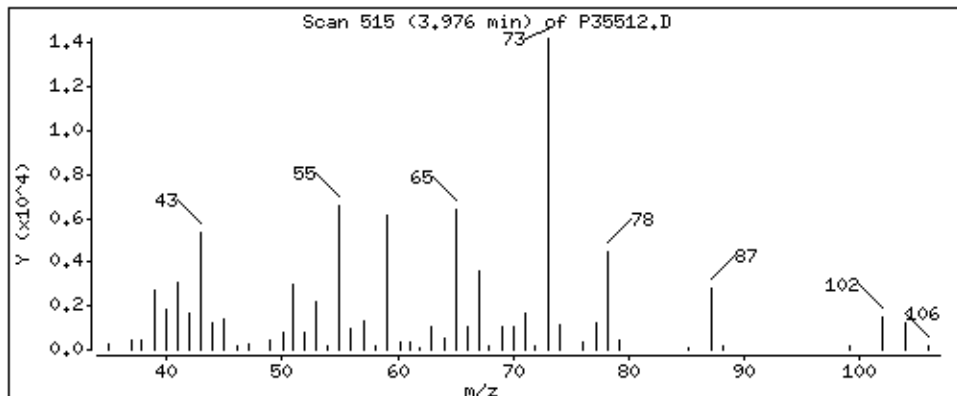
Operator: KGG

Column phase: RTX-624

Column diameter: 0.18

53 tert-Amyl Alcohol

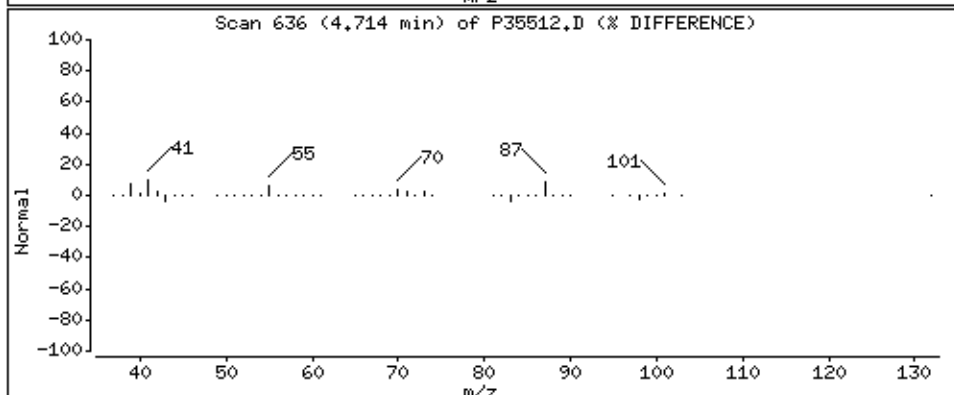
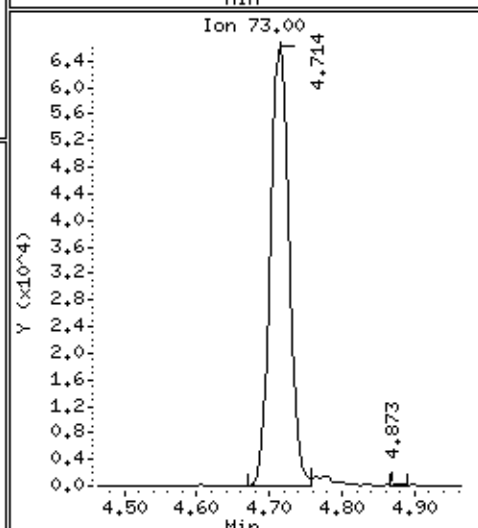
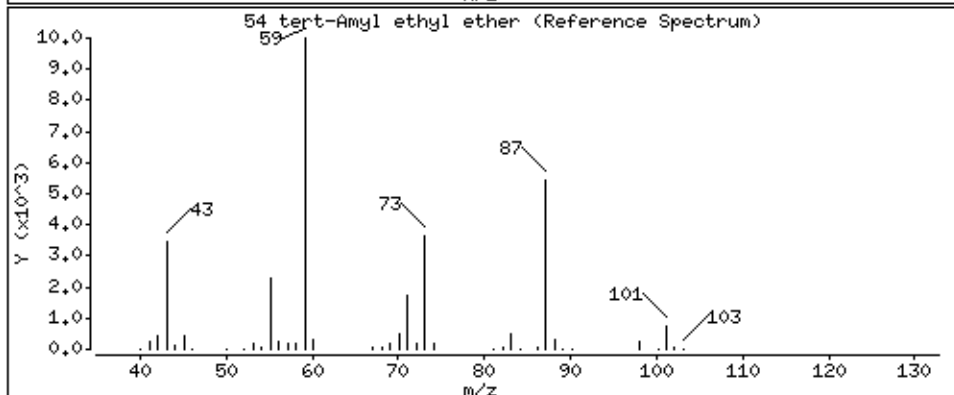
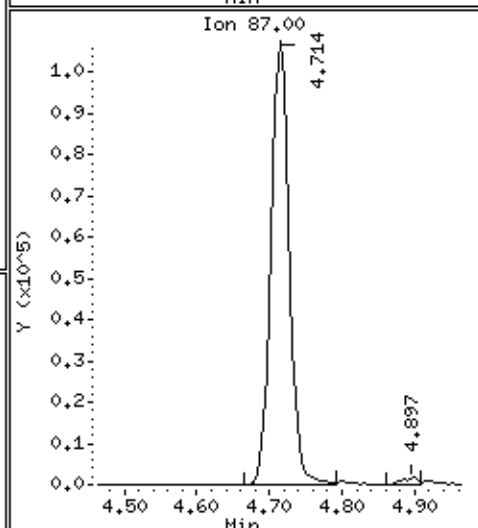
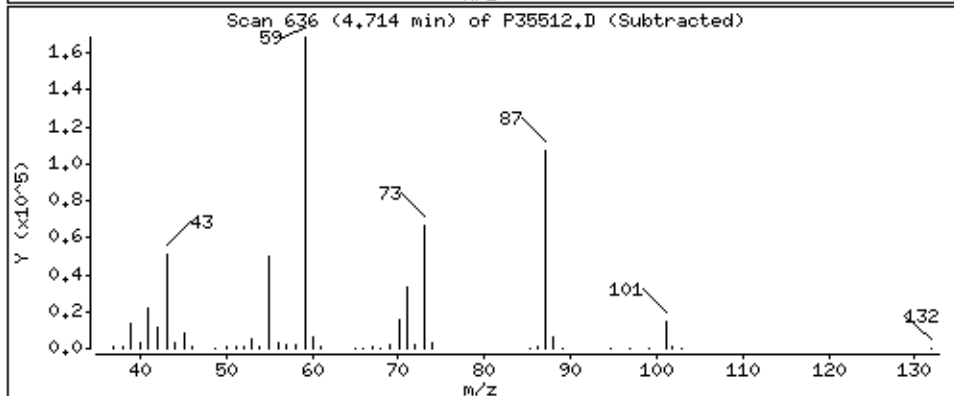
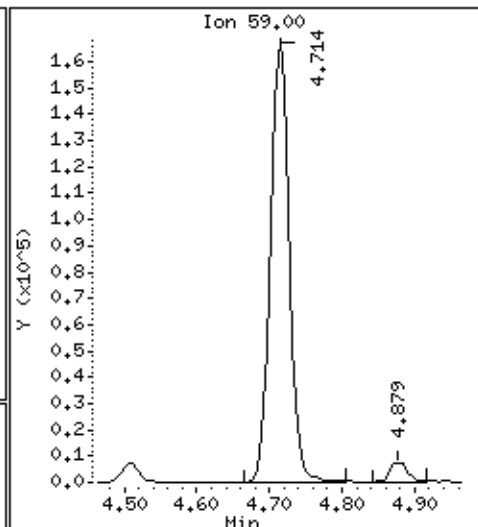
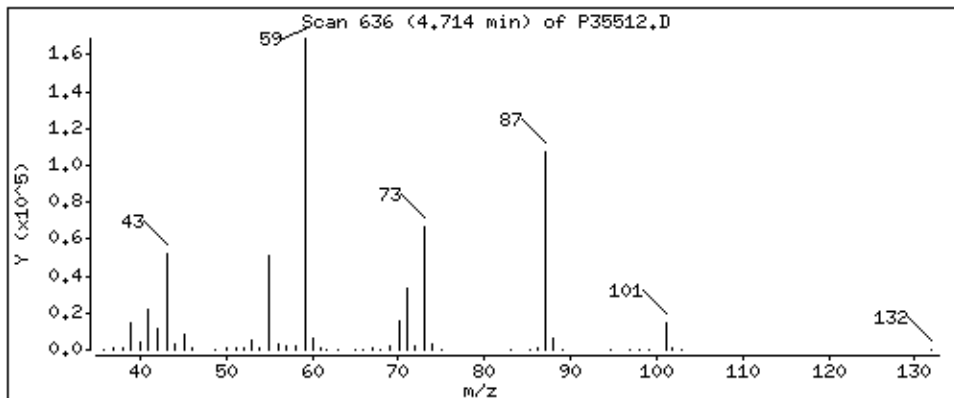
Review Code:



54 tert-Amyl ethyl ether

Concentration: 38,9 ug/L

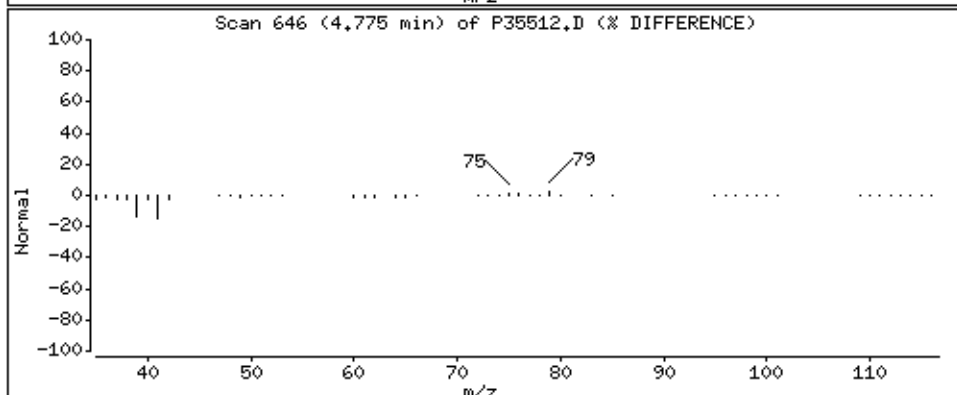
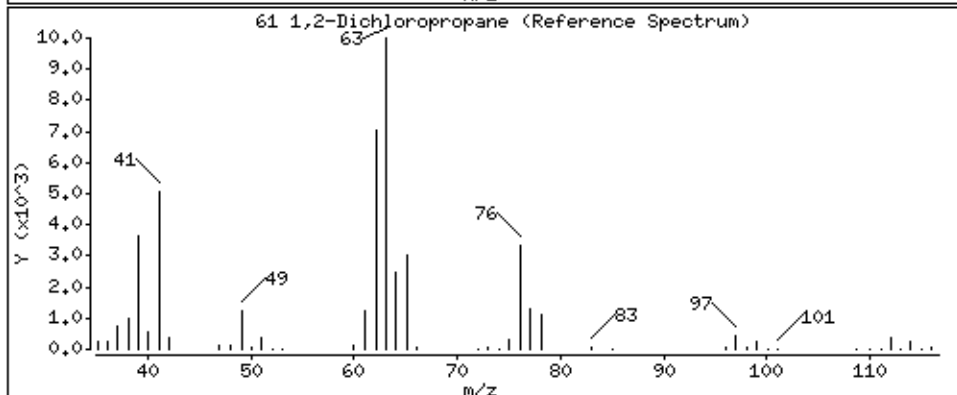
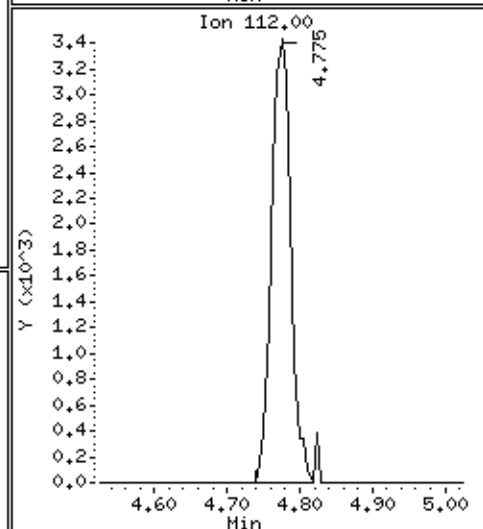
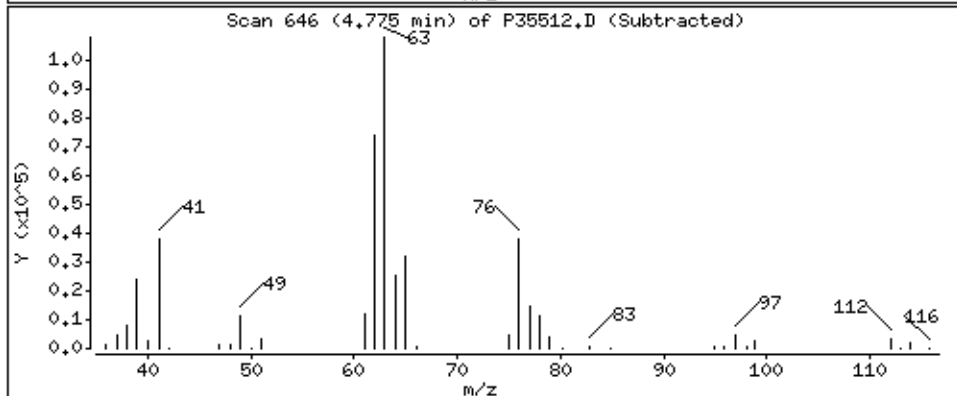
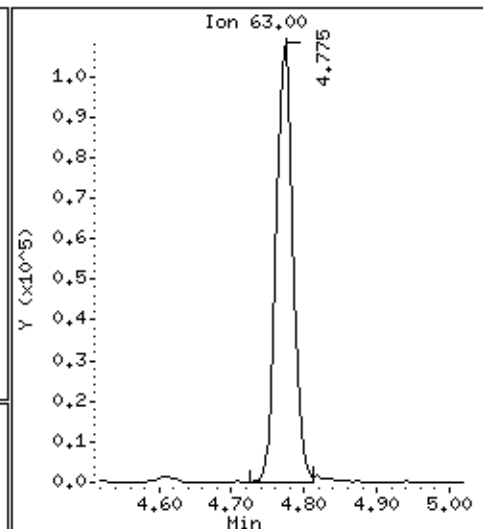
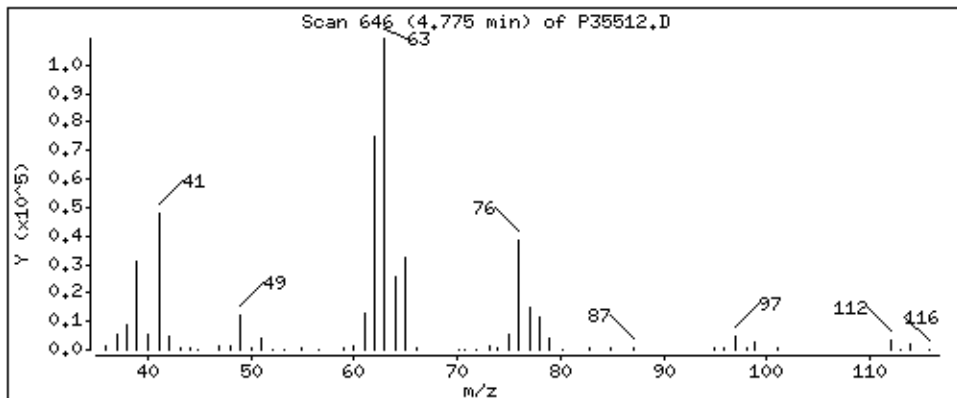
Review Code:



61 1,2-Dichloropropane

Concentration: 45,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

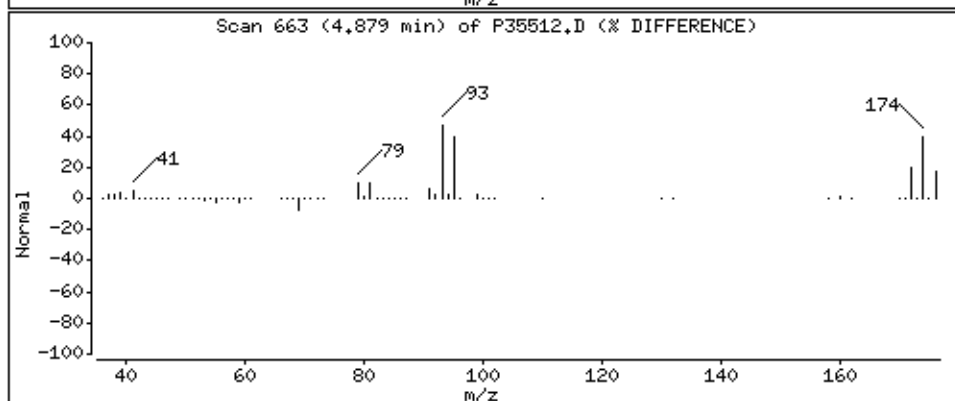
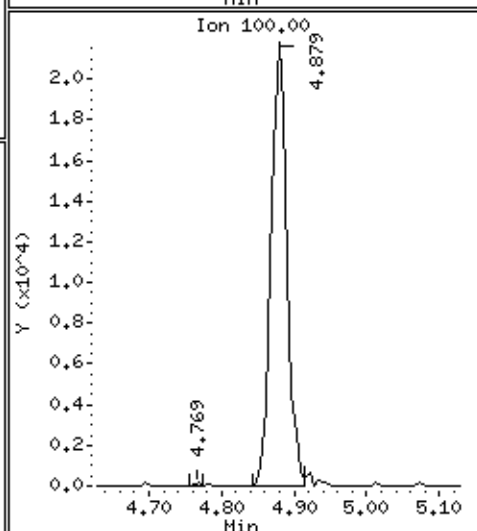
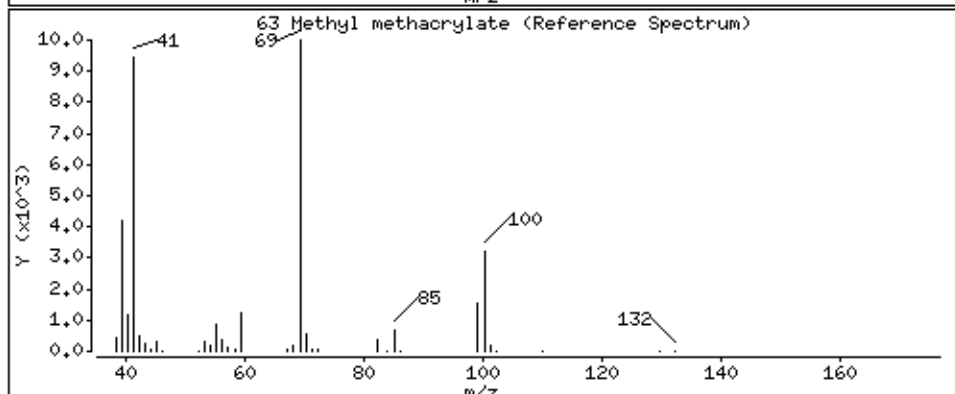
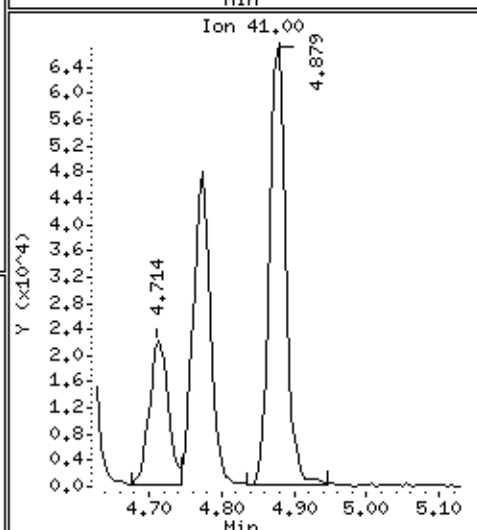
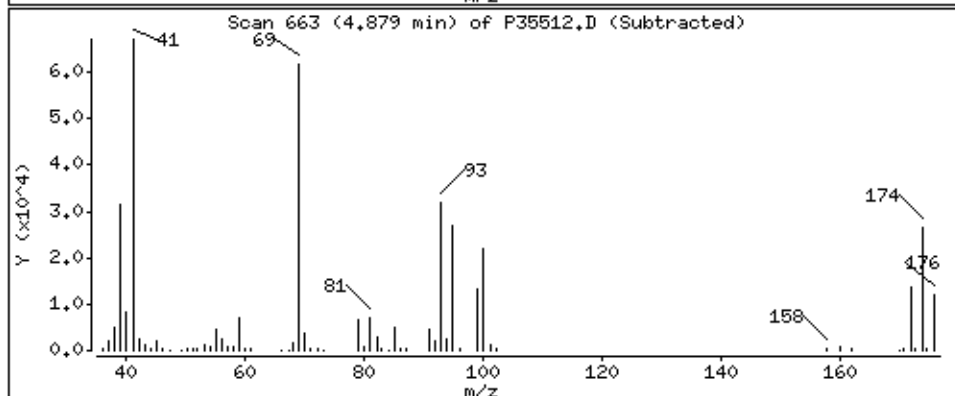
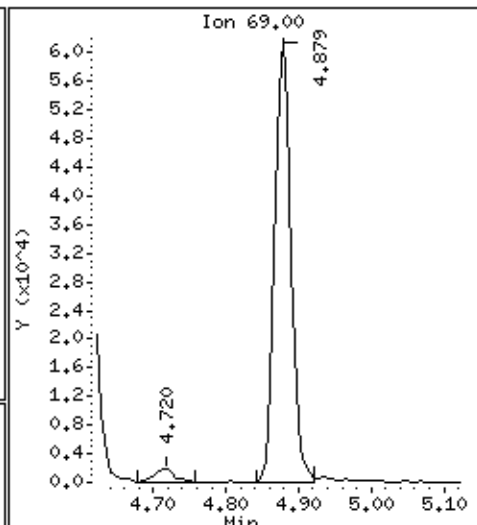
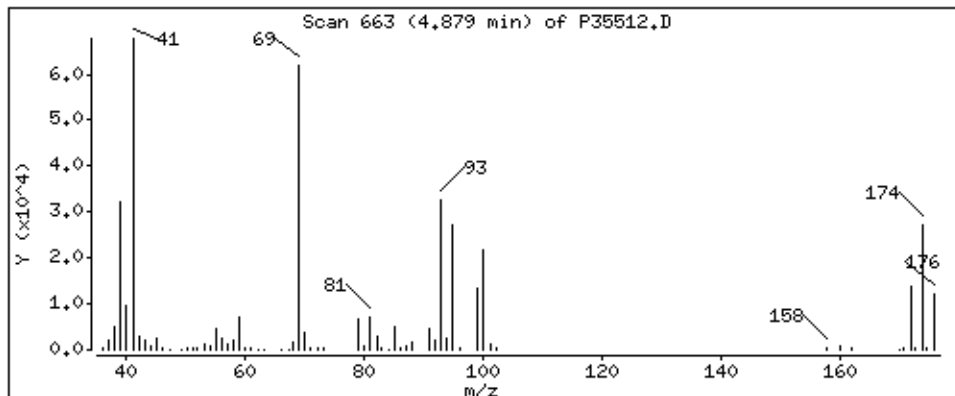
Column phase: RTX-624

Column diameter: 0,18

63 Methyl methacrylate

Concentration: 44.0 ug/L

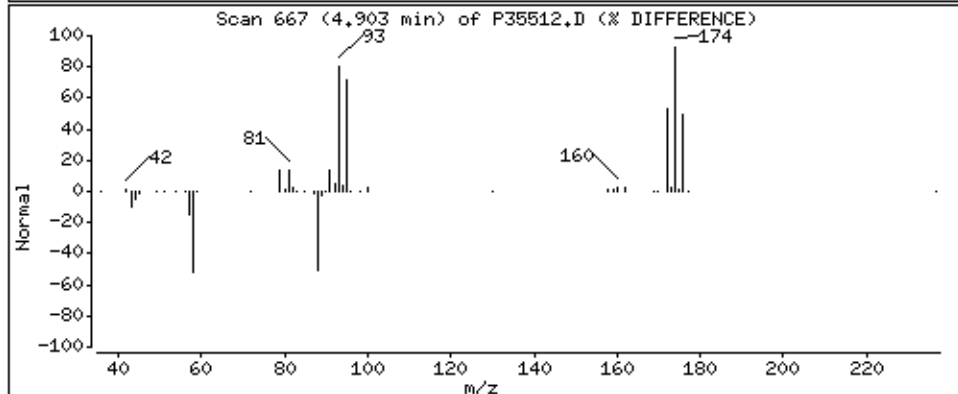
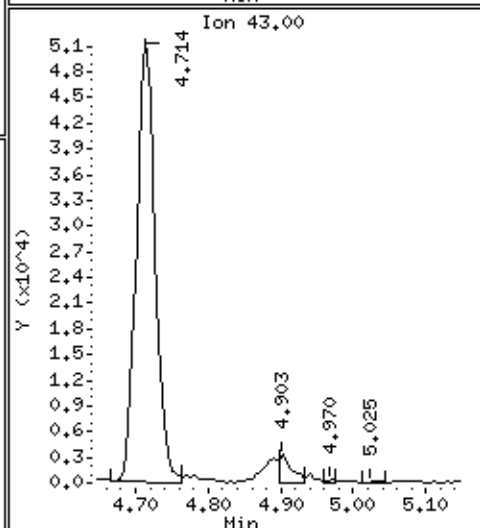
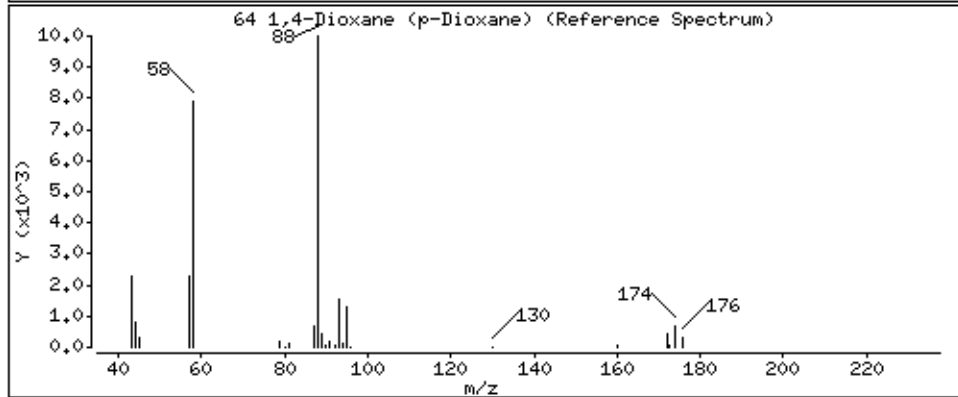
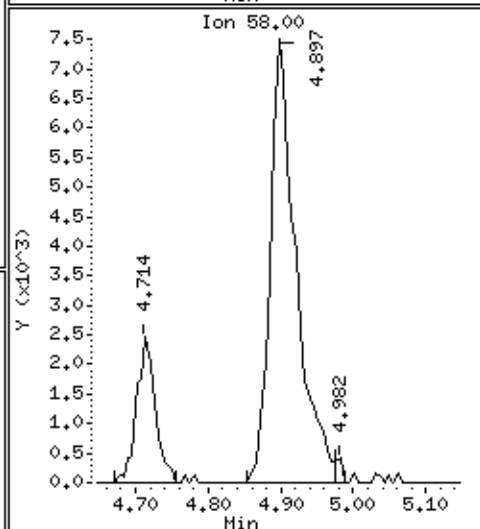
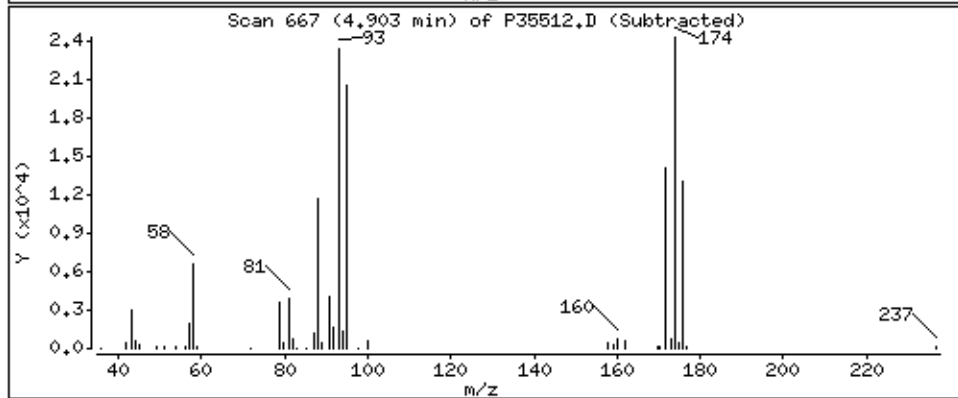
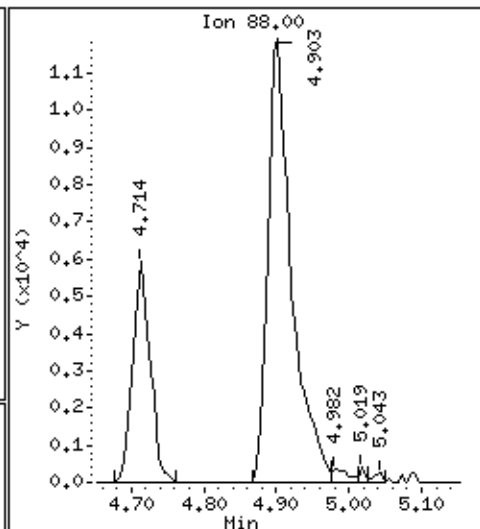
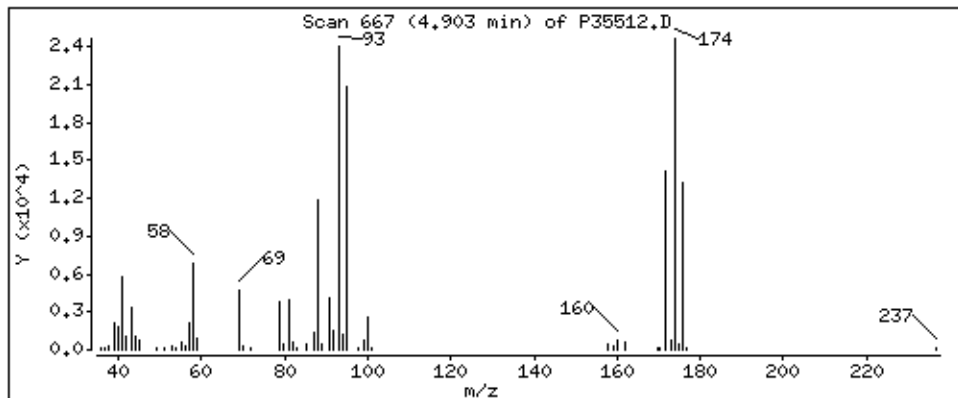
Review Code:



64 1,4-Dioxane (p-Dioxane)

Concentration: 1200 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

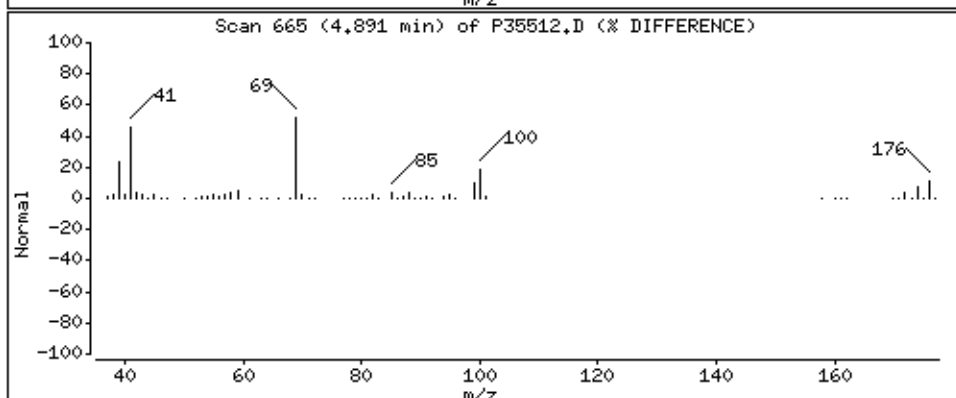
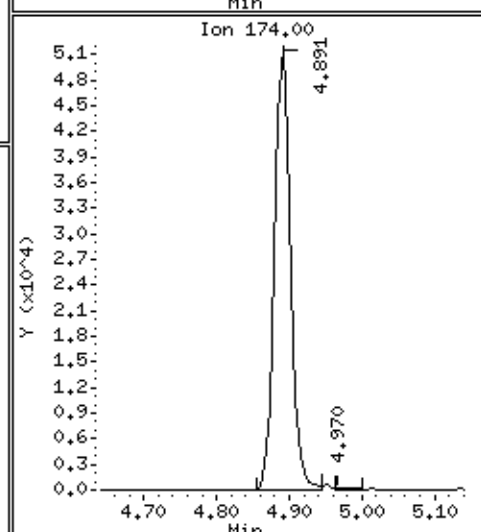
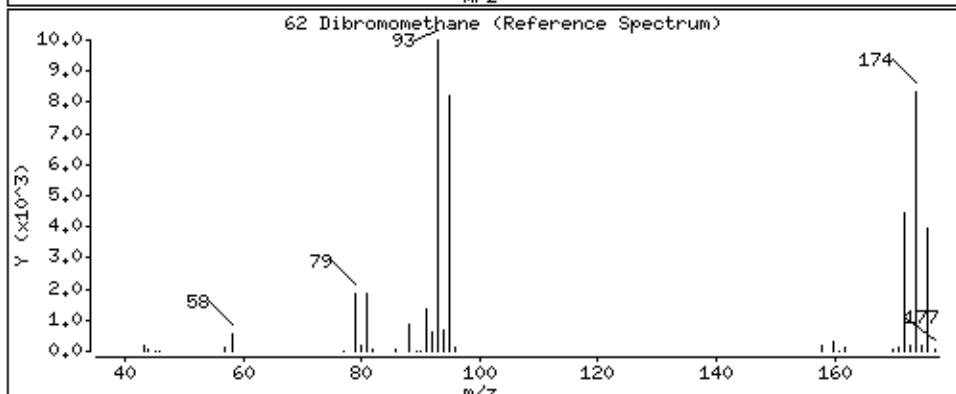
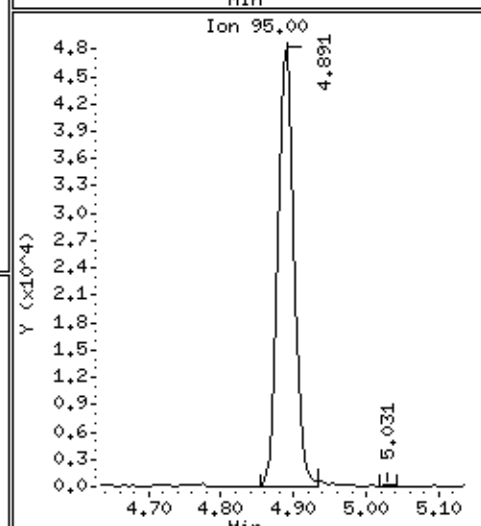
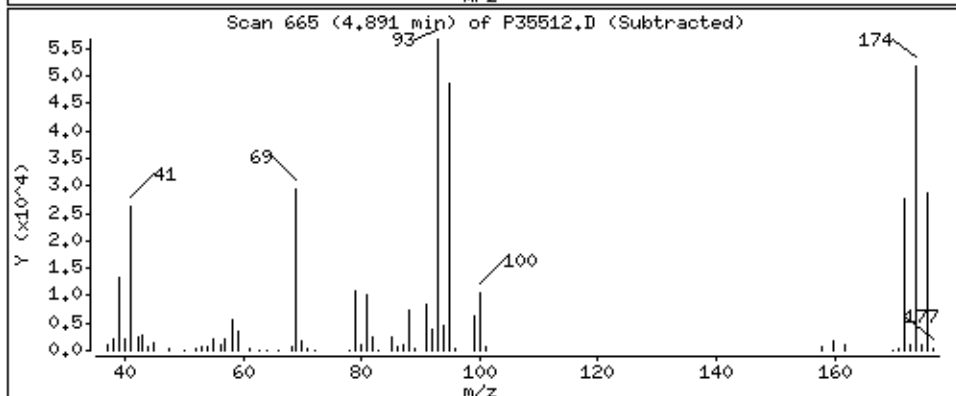
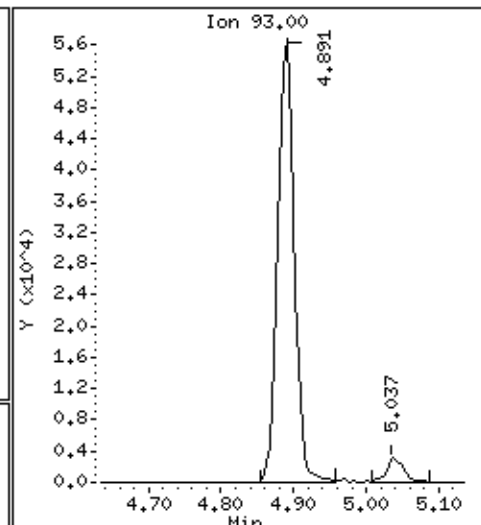
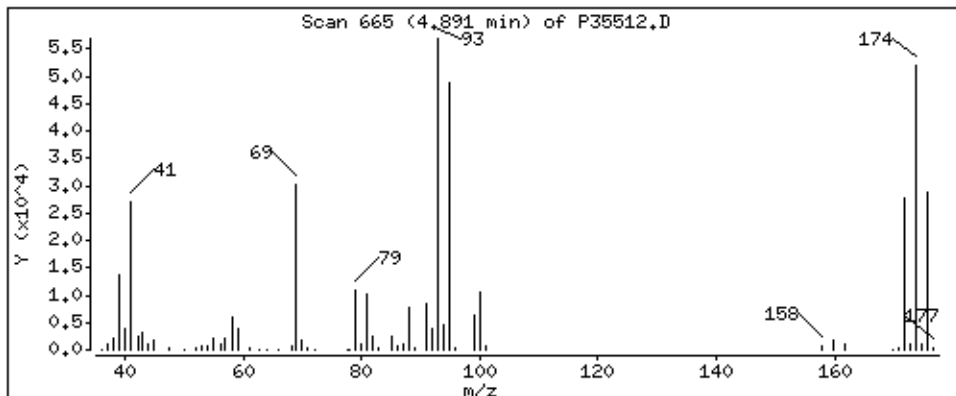
Column phase: RTX-624

Column diameter: 0,18

62 Dibromomethane

Concentration: 46,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

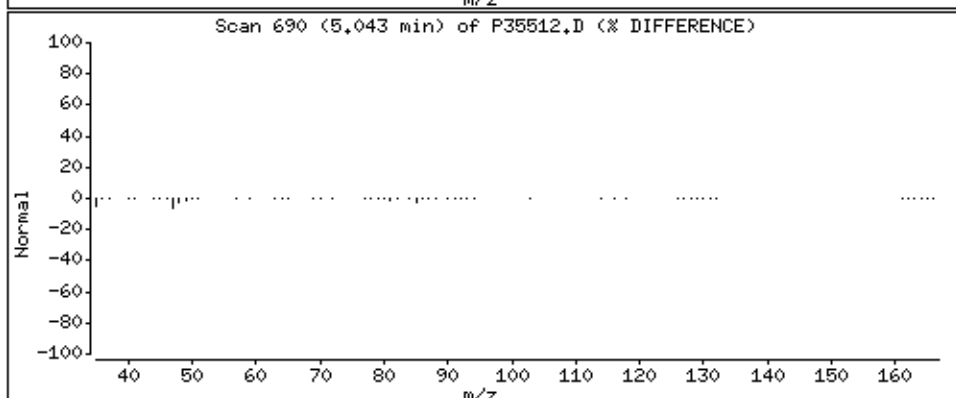
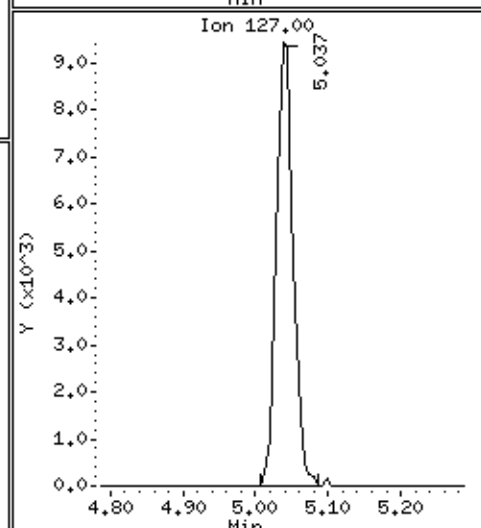
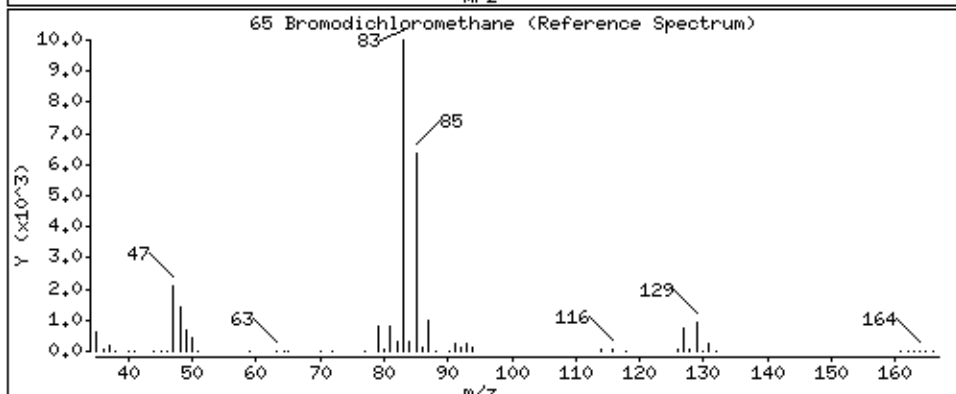
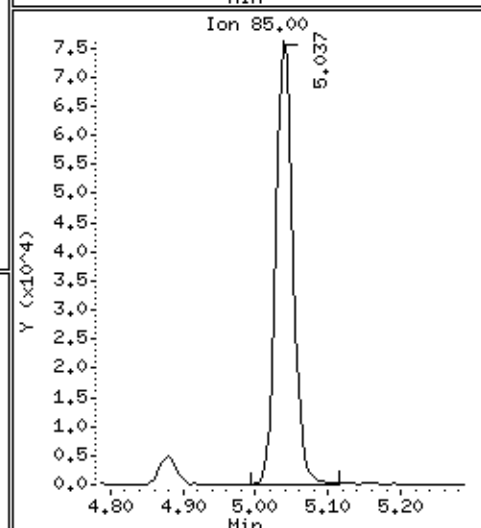
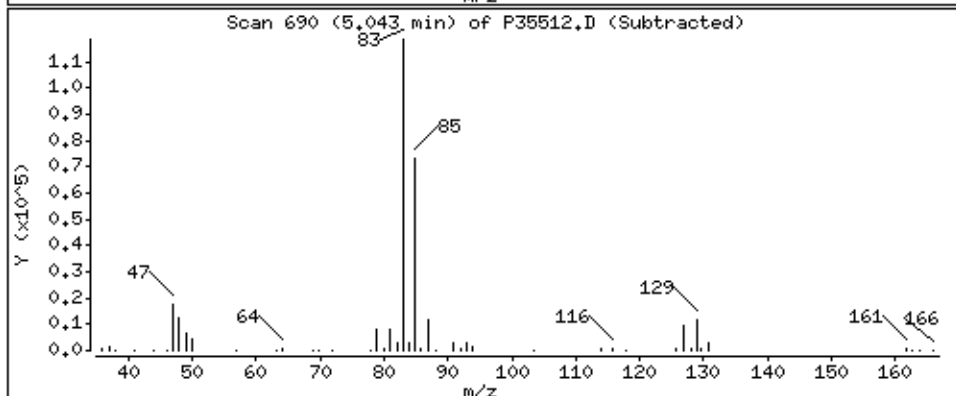
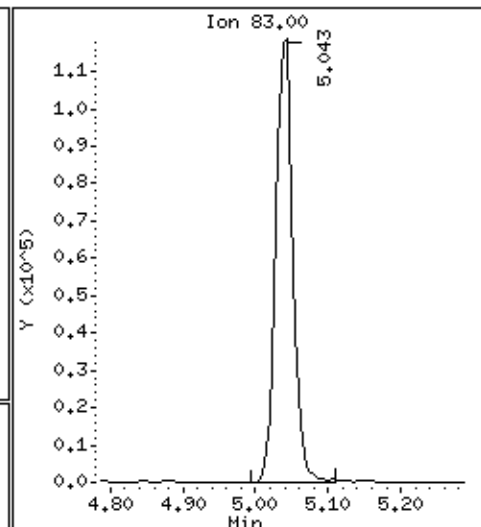
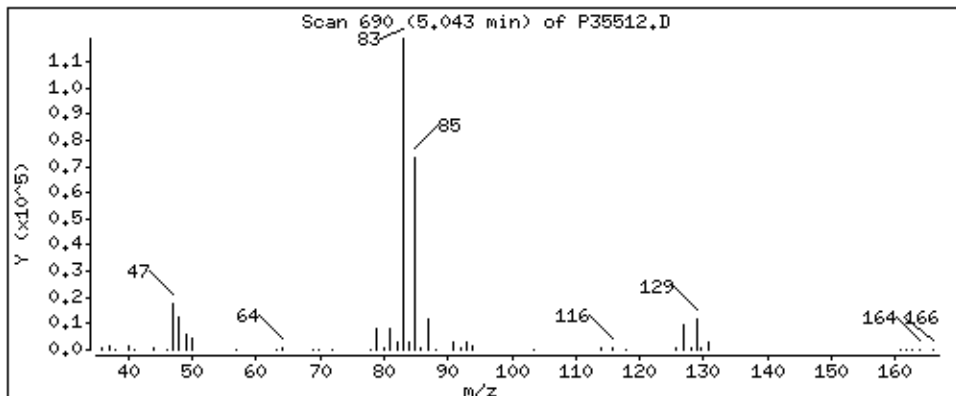
Column phase: RTX-624

Column diameter: 0,18

65 Bromodichloromethane

Concentration: 44,9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1,25

Purge Volume: 5.0

Operator: KGG

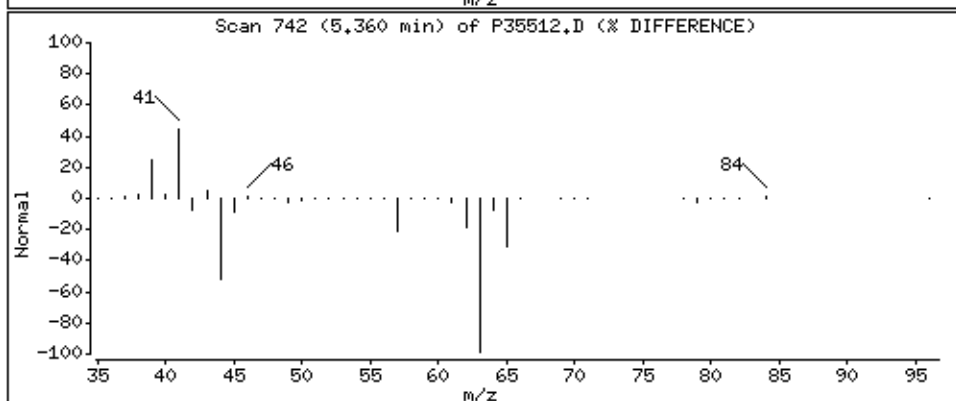
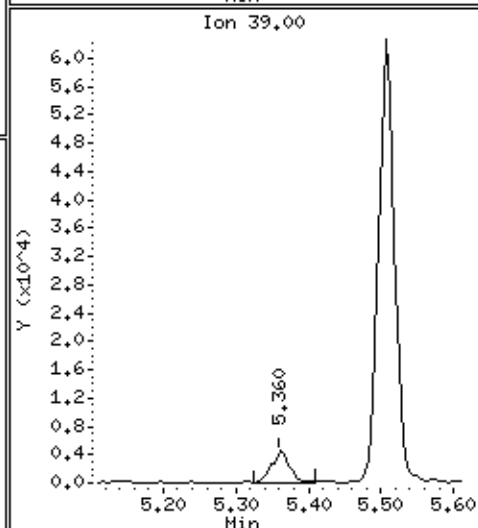
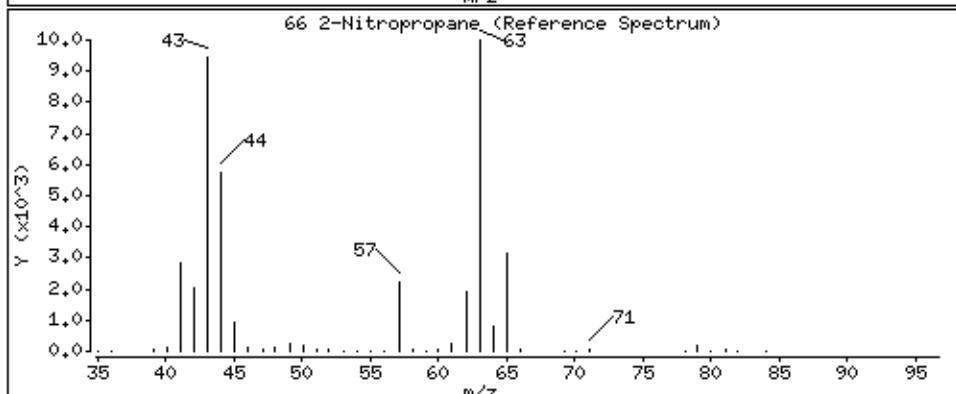
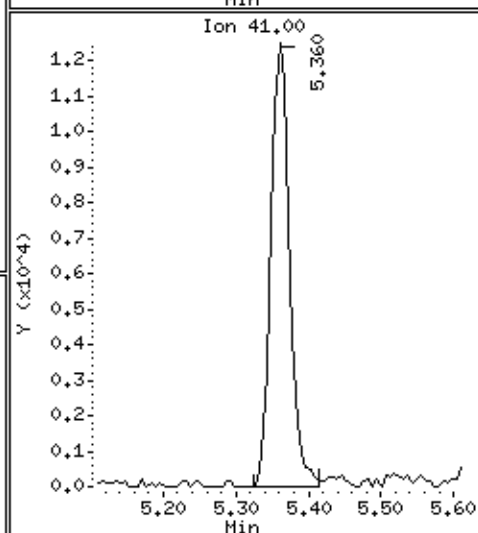
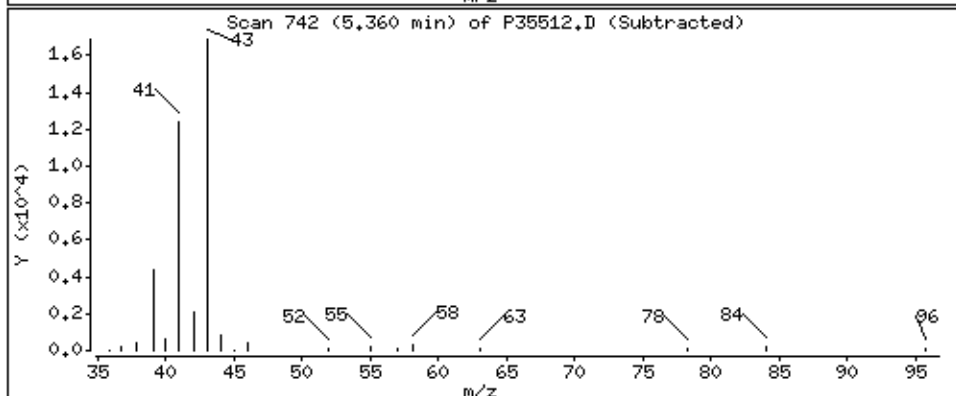
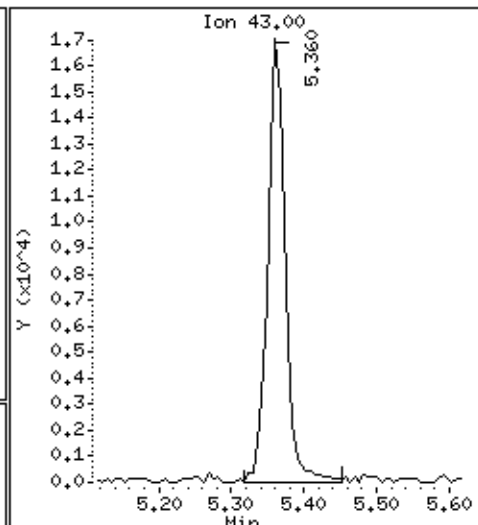
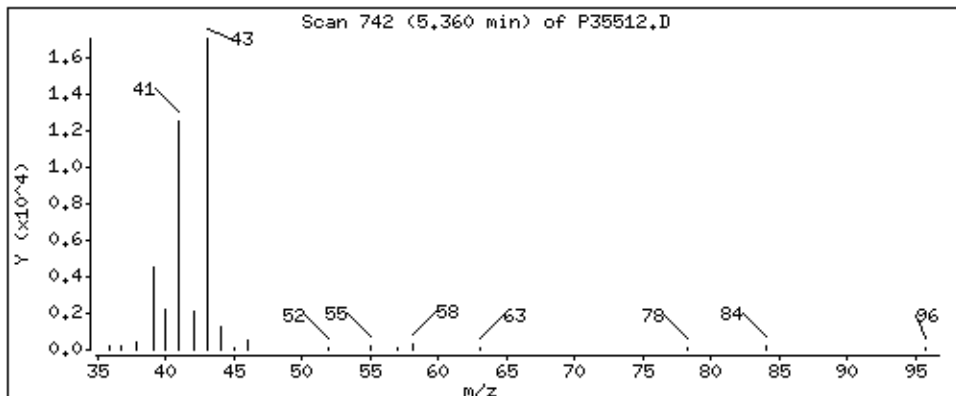
Column phase: RTX-624

Column diameter: 0,18

66 2-Nitropropane

Concentration: 16,4 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

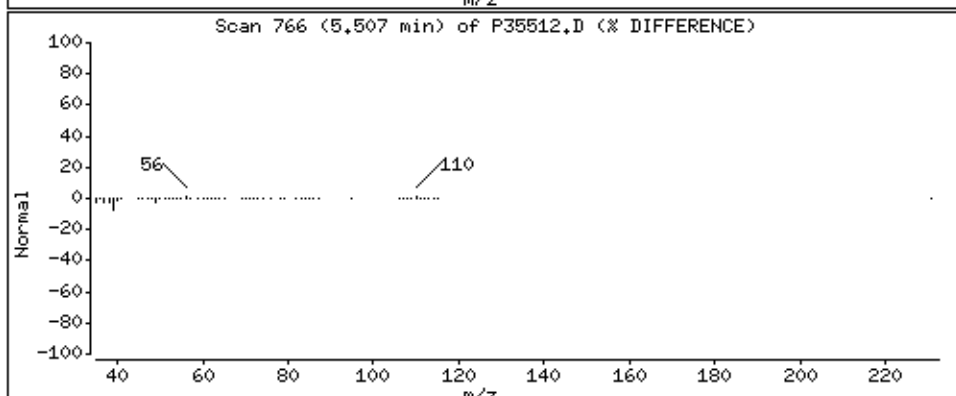
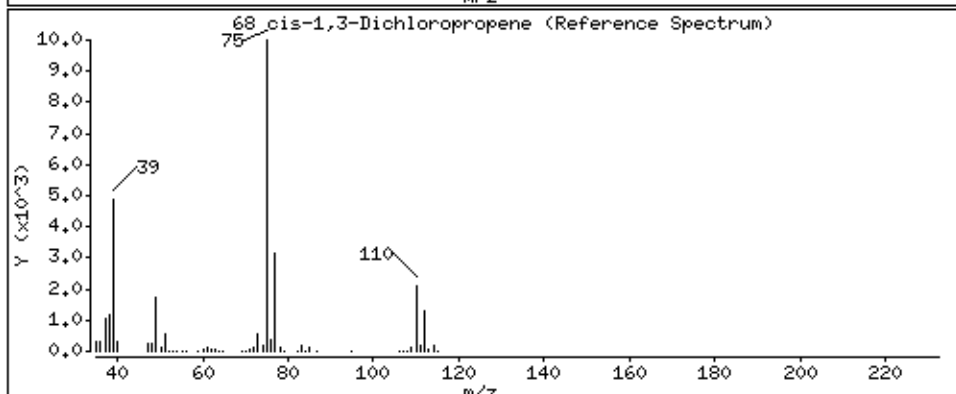
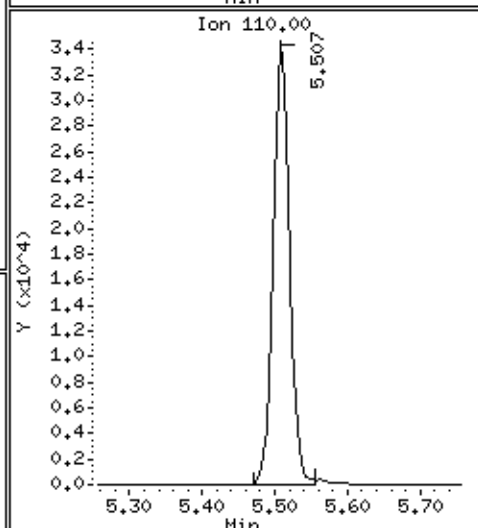
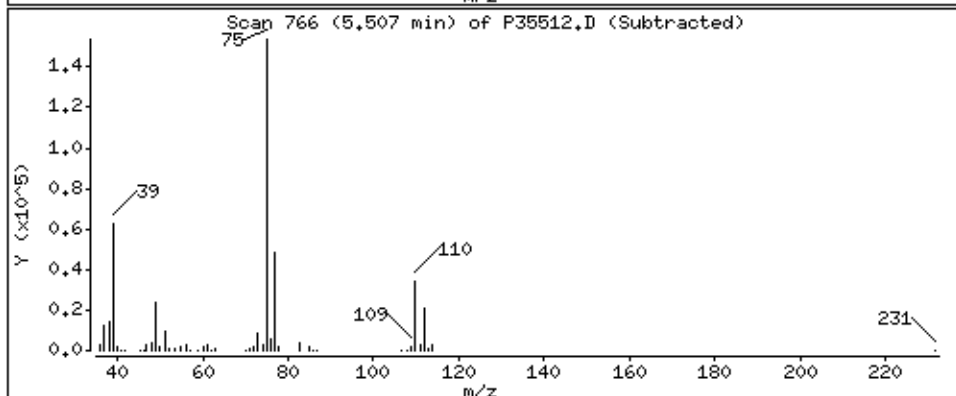
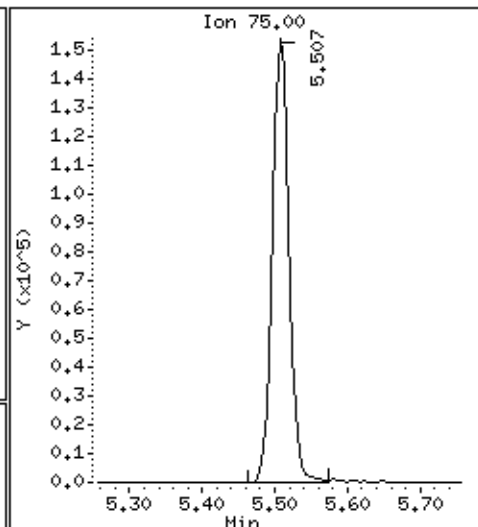
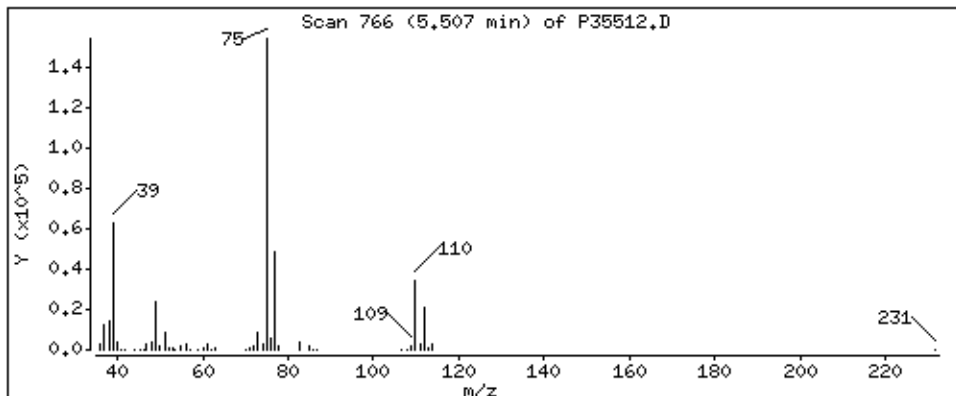
Column phase: RTX-624

Column diameter: 0,18

68 cis-1,3-Dichloropropene

Concentration: 46,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

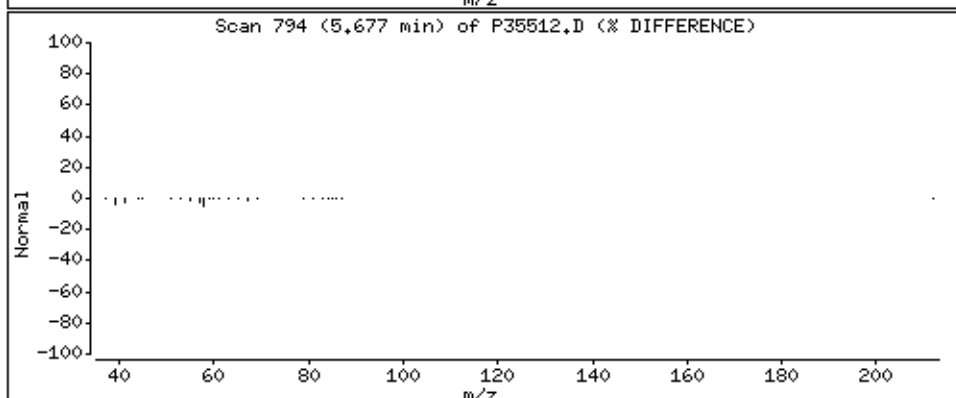
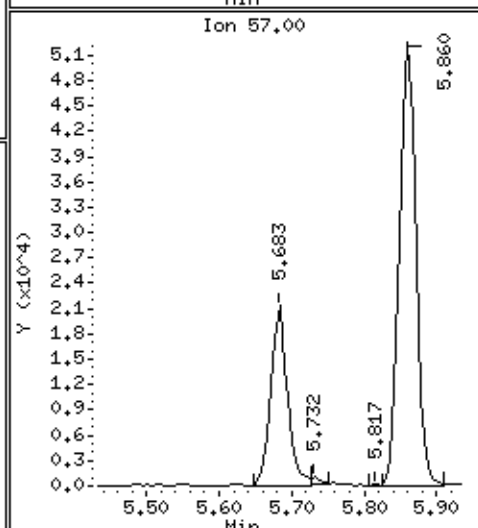
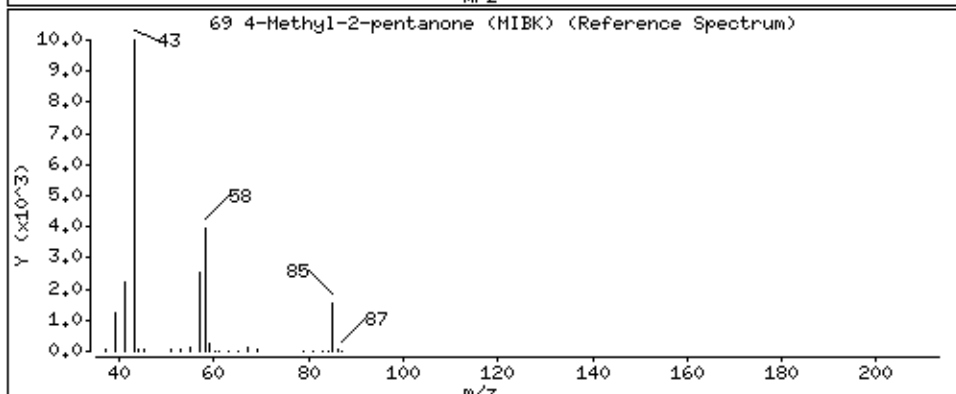
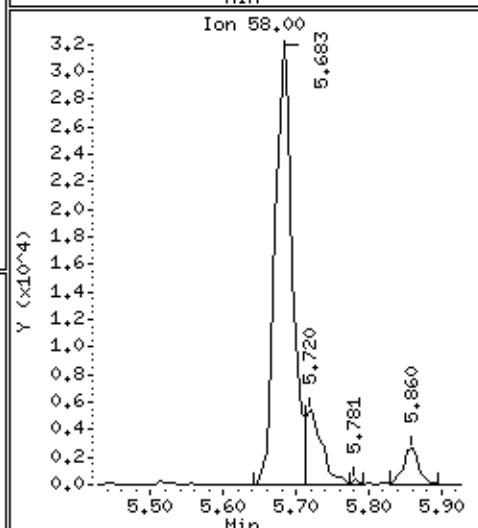
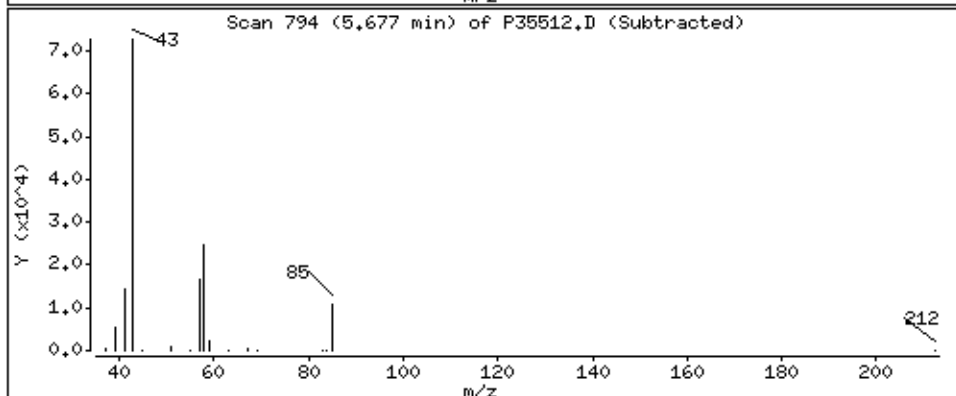
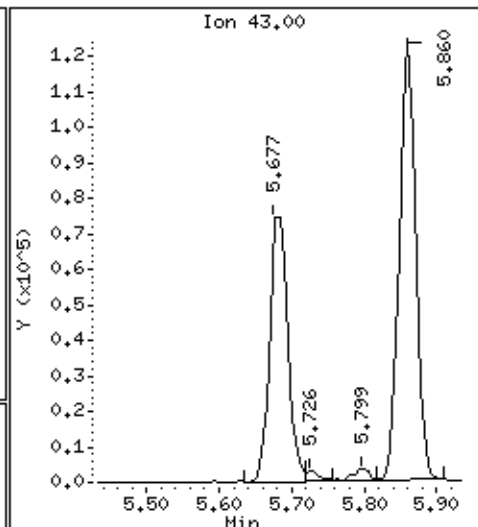
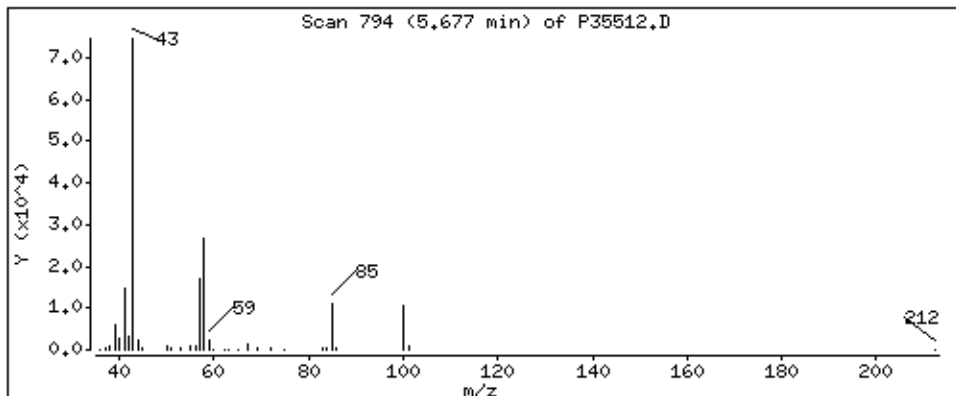
Column phase: RTX-624

Column diameter: 0.18

69 4-Methyl-2-pentanone (MIBK)

Concentration: 44.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

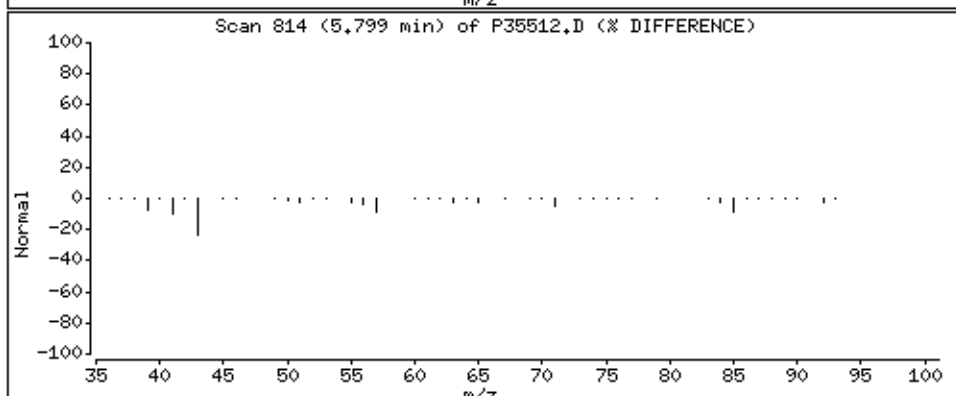
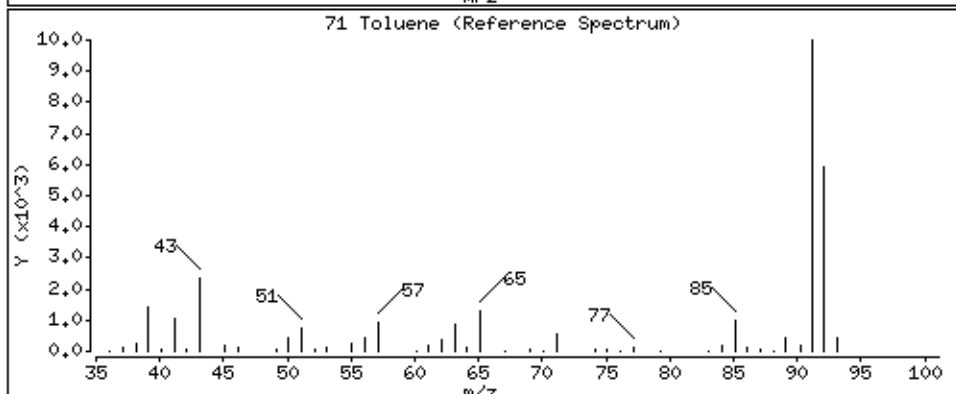
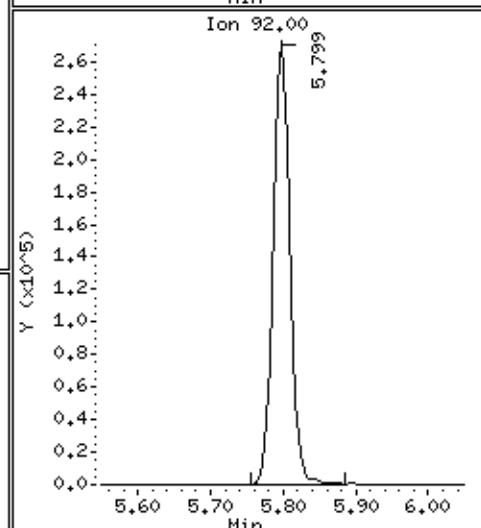
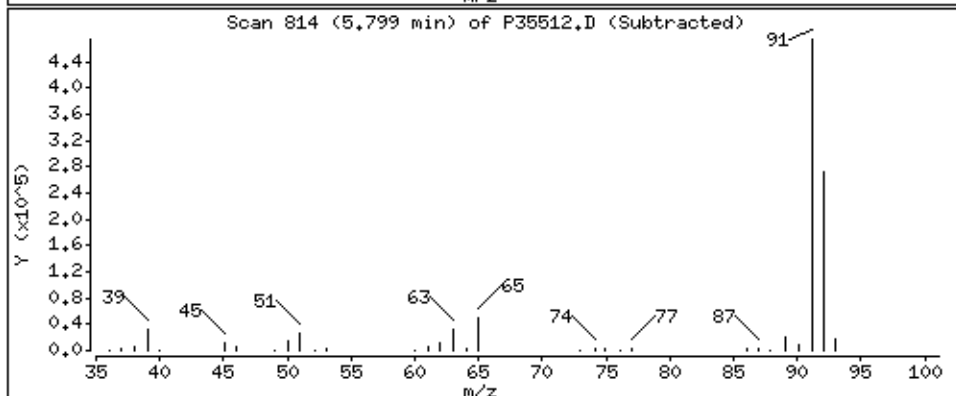
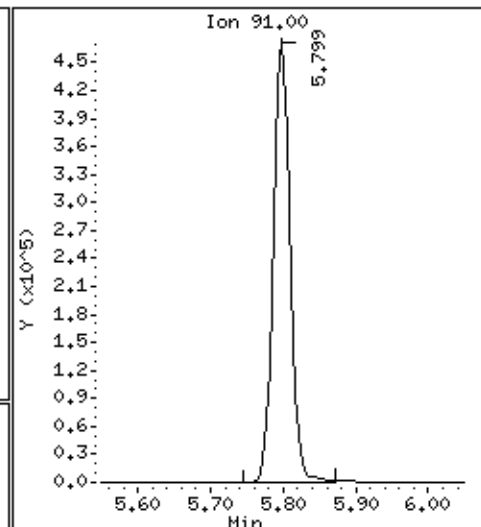
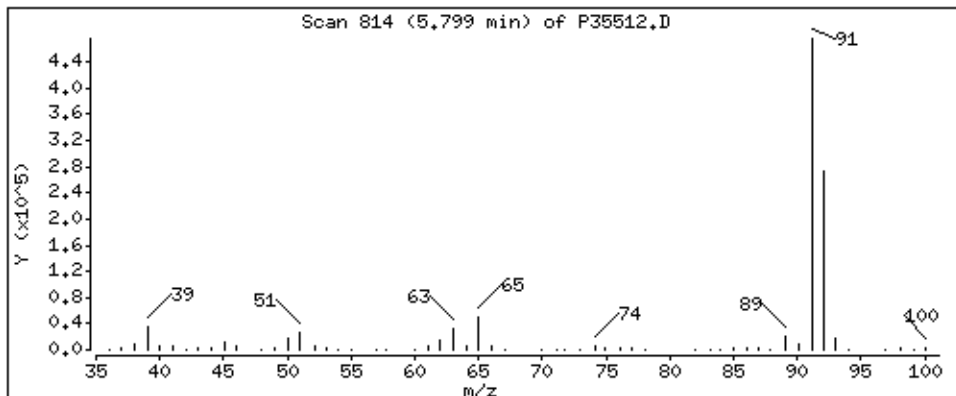
Column phase: RTX-624

Column diameter: 0.18

71 Toluene

Concentration: 48.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

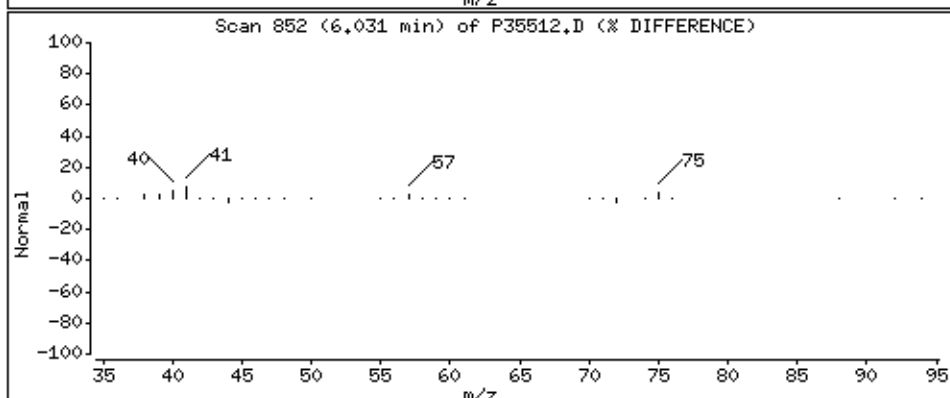
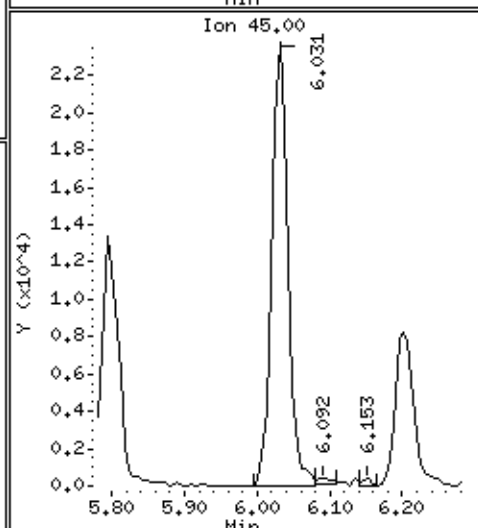
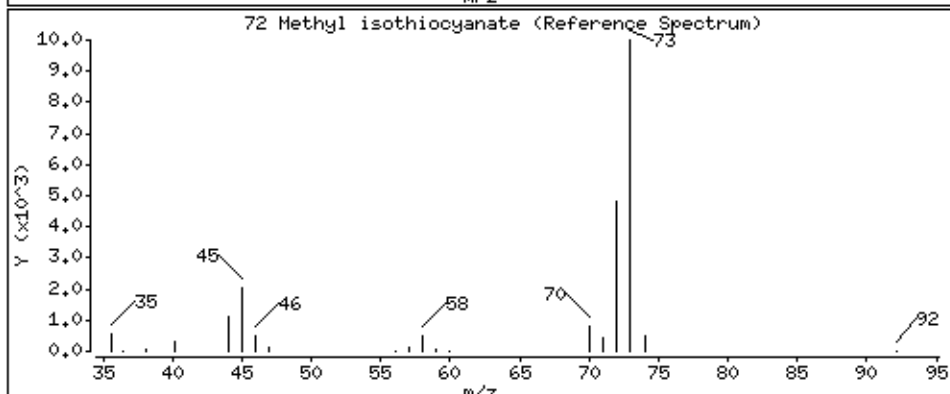
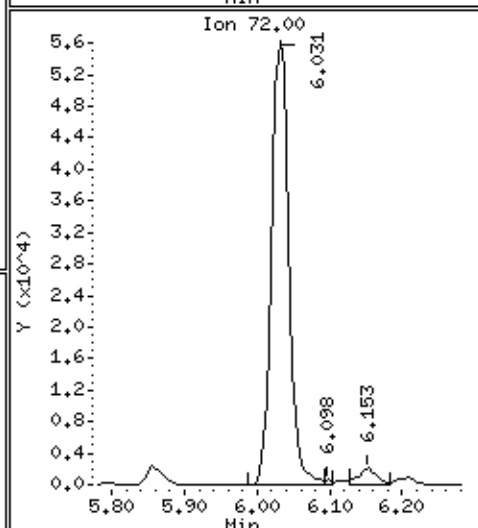
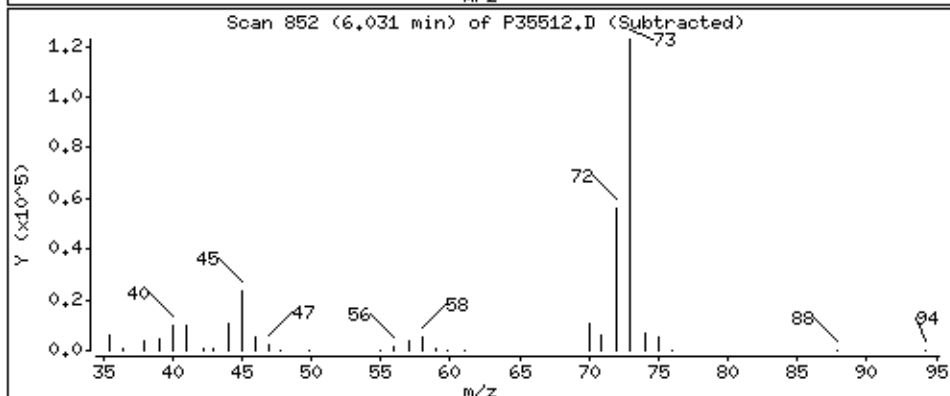
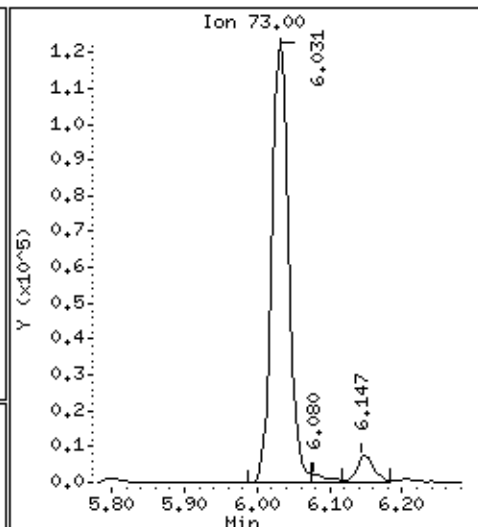
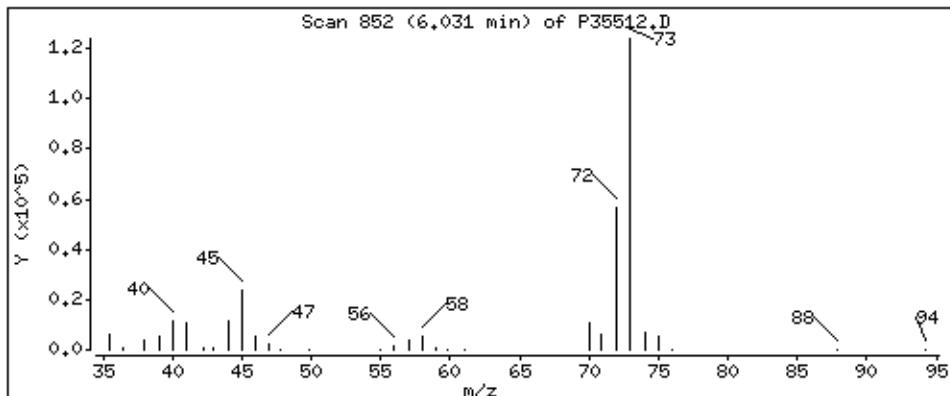
Column phase: RTX-624

Column diameter: 0.18

72 Methyl isothiocyanate

Concentration: 101 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

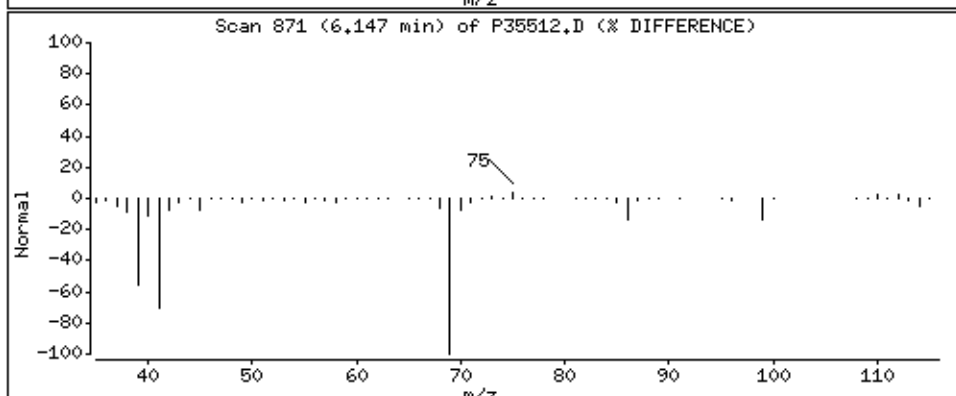
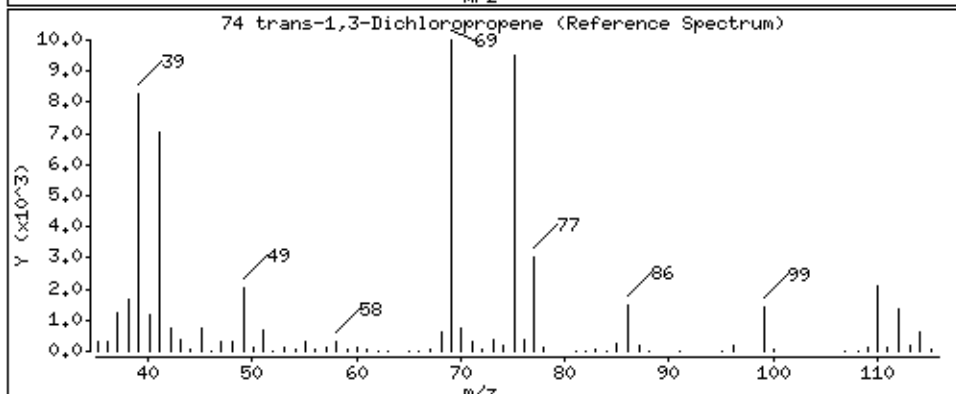
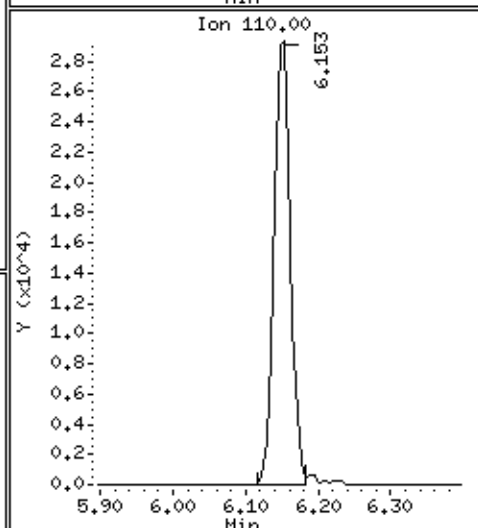
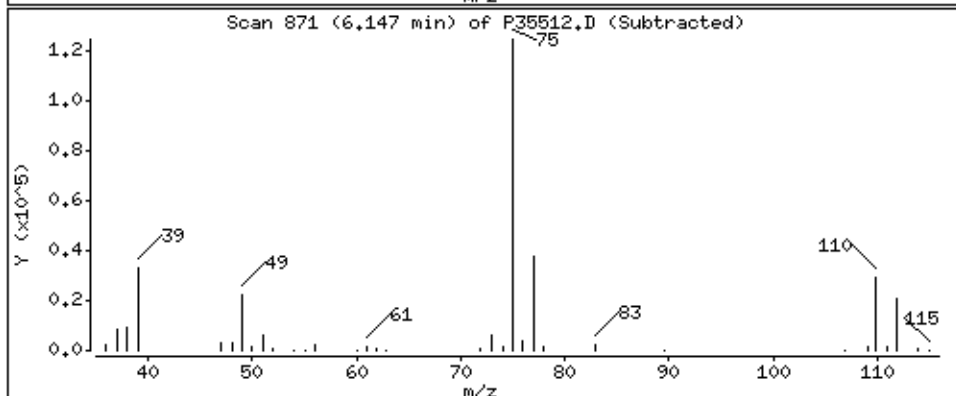
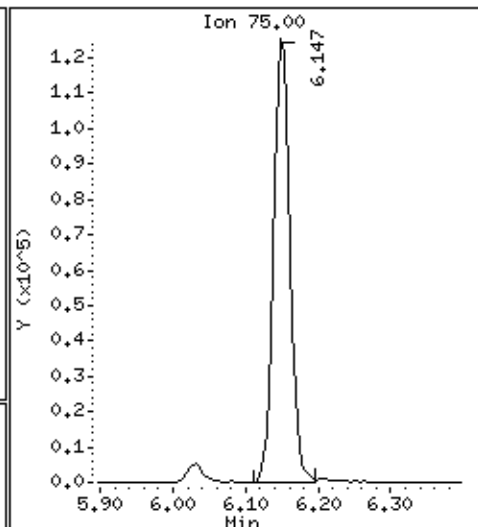
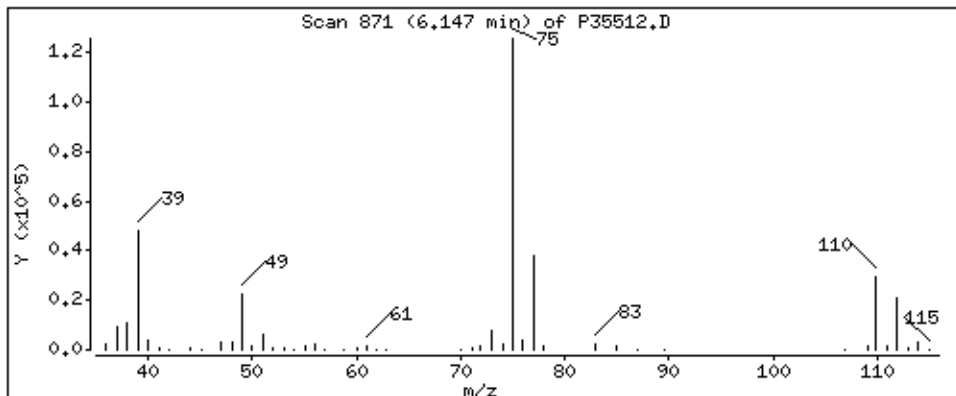
Column phase: RTX-624

Column diameter: 0,18

74 trans-1,3-Dichloropropene

Concentration: 44.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

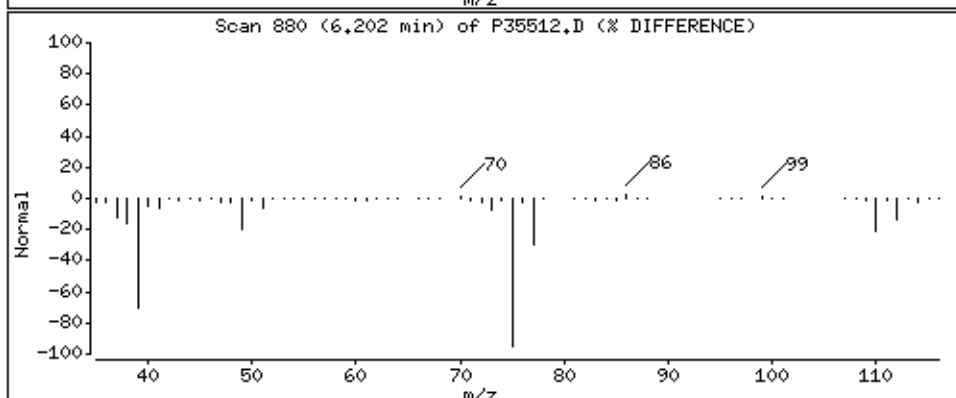
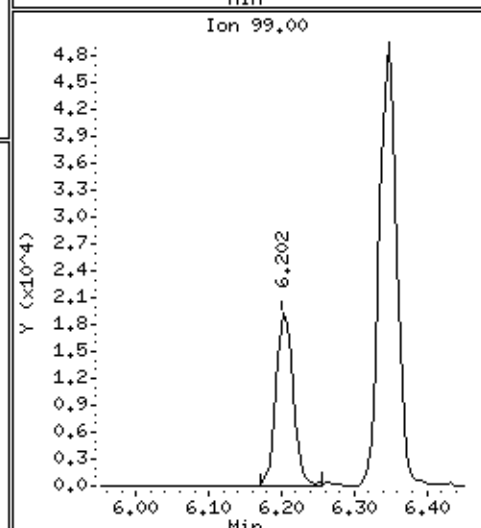
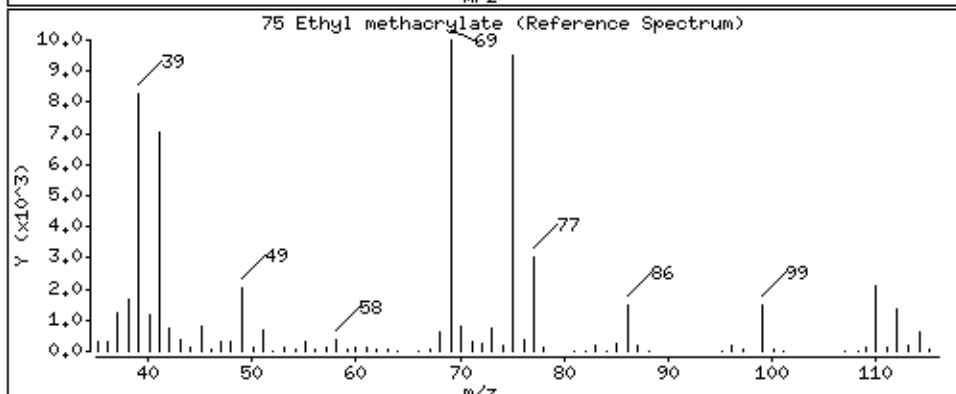
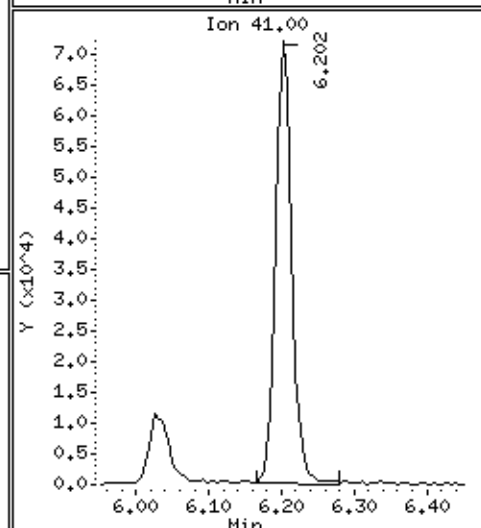
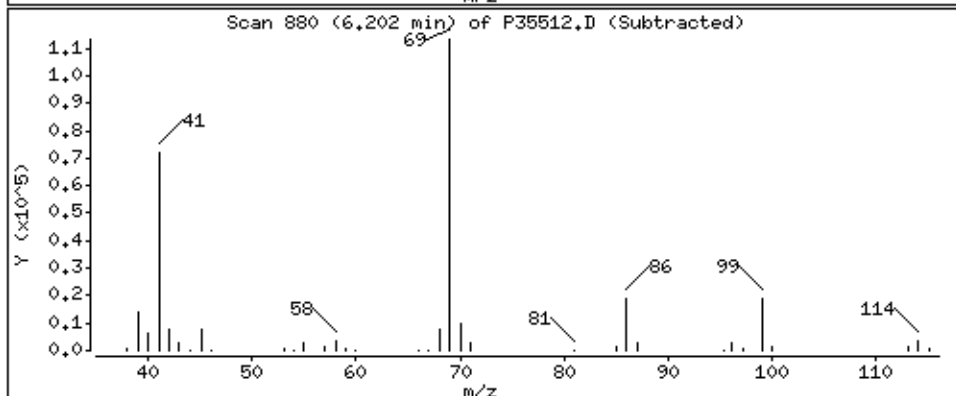
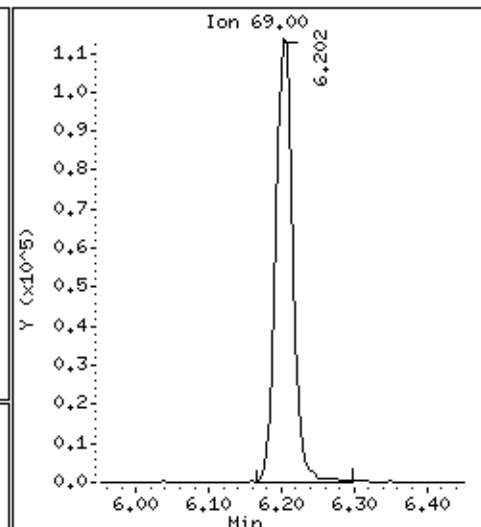
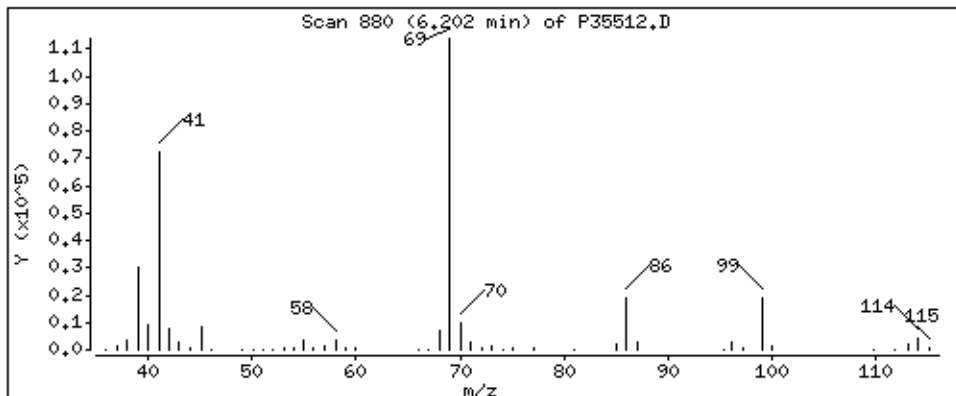
Column phase: RTX-624

Column diameter: 0.18

75 Ethyl methacrylate

Concentration: 46.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

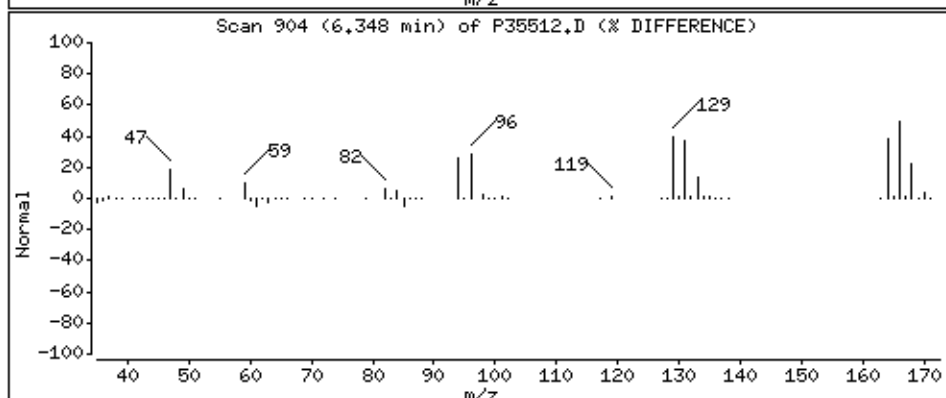
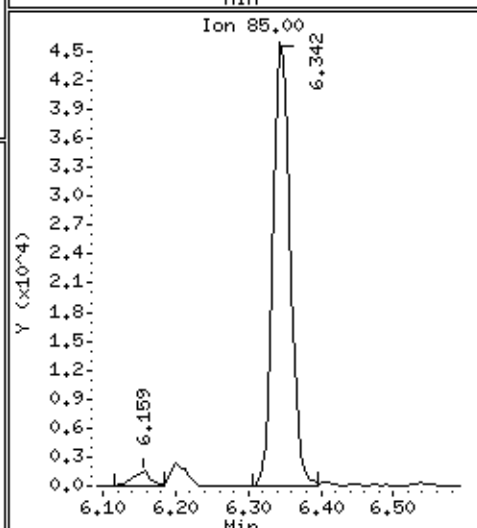
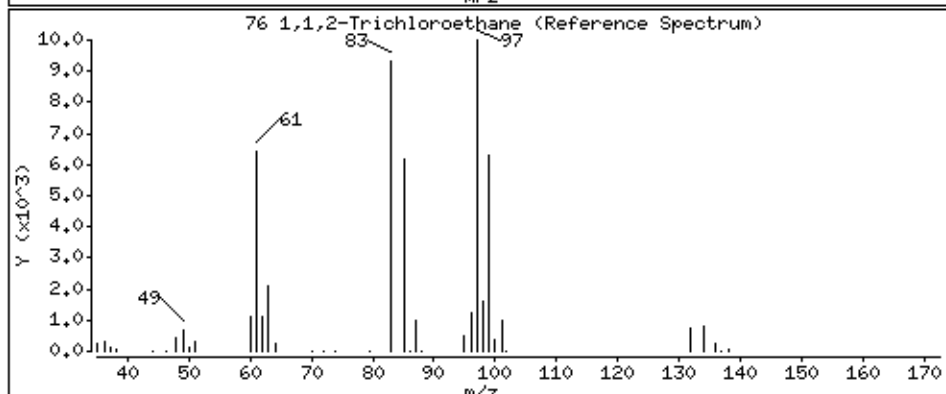
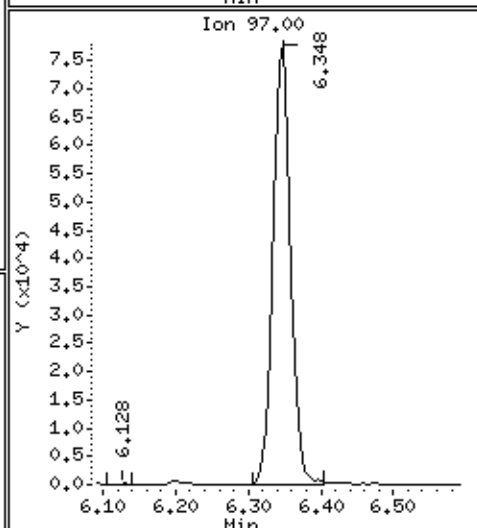
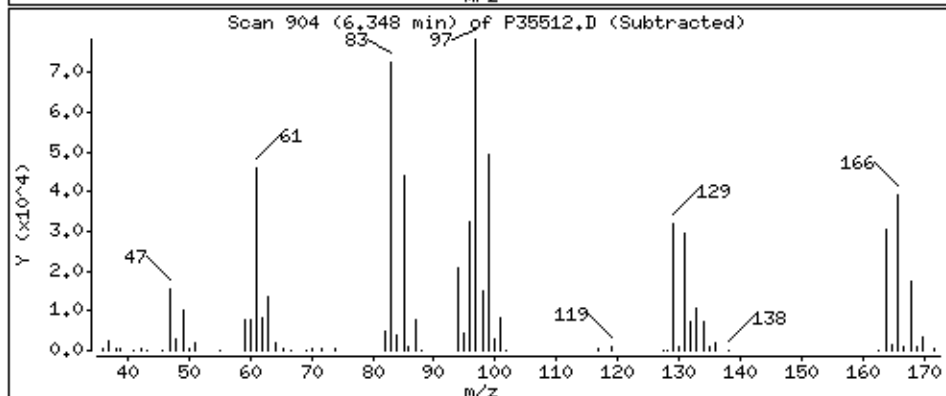
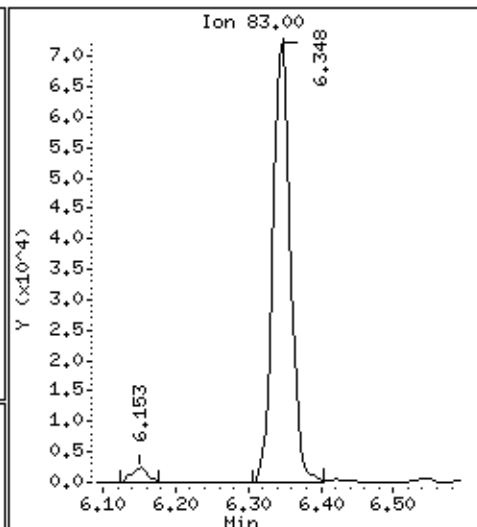
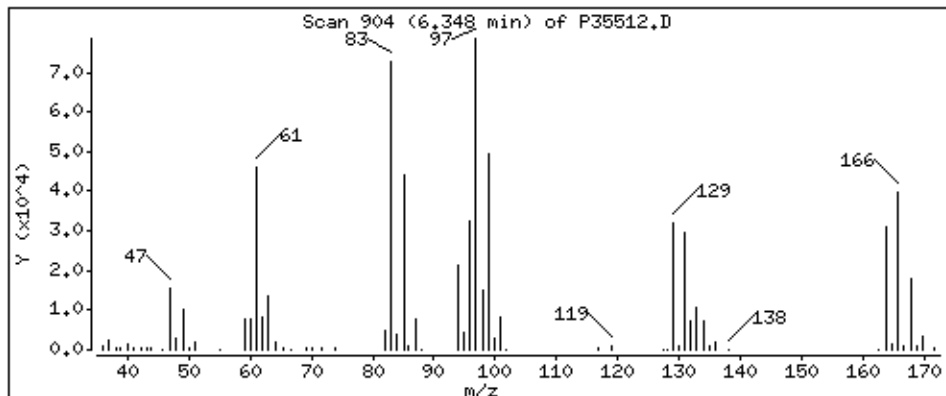
Column phase: RTX-624

Column diameter: 0,18

76 1,1,2-Trichloroethane

Concentration: 45,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

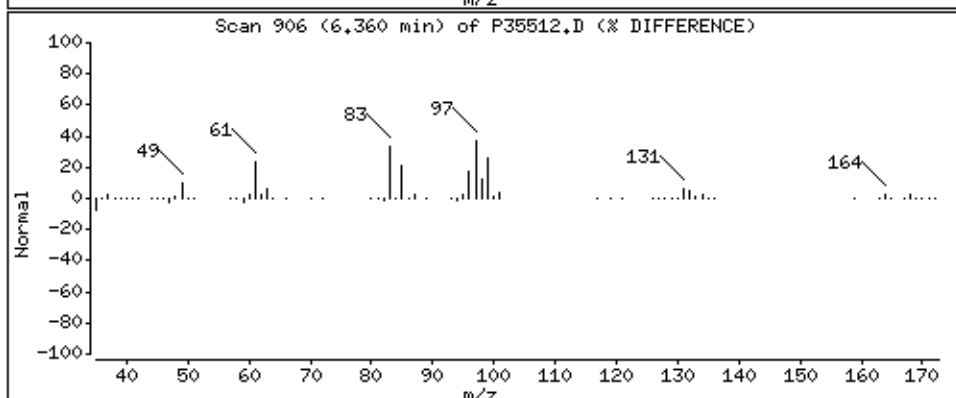
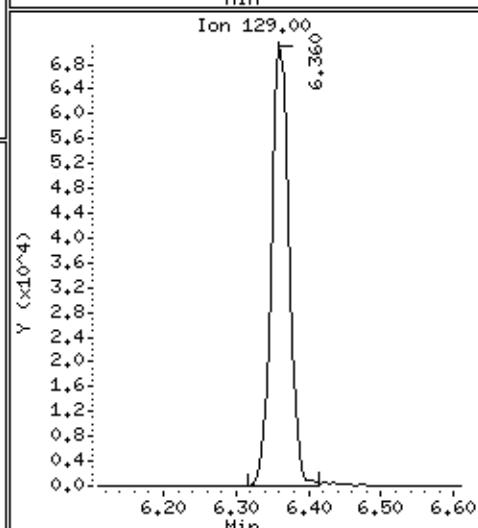
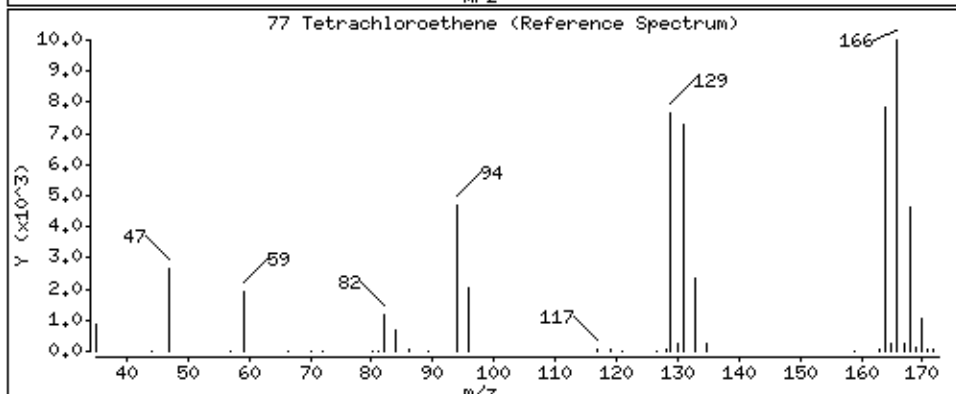
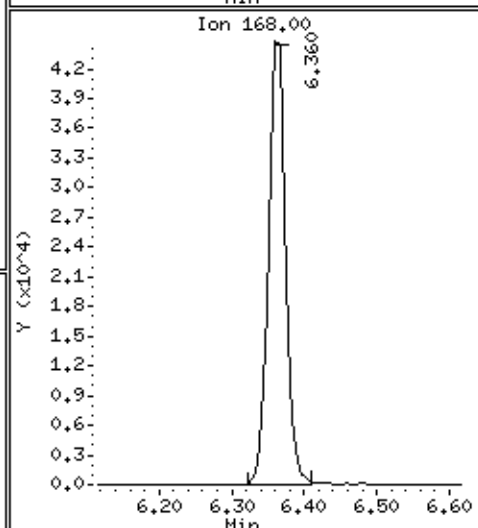
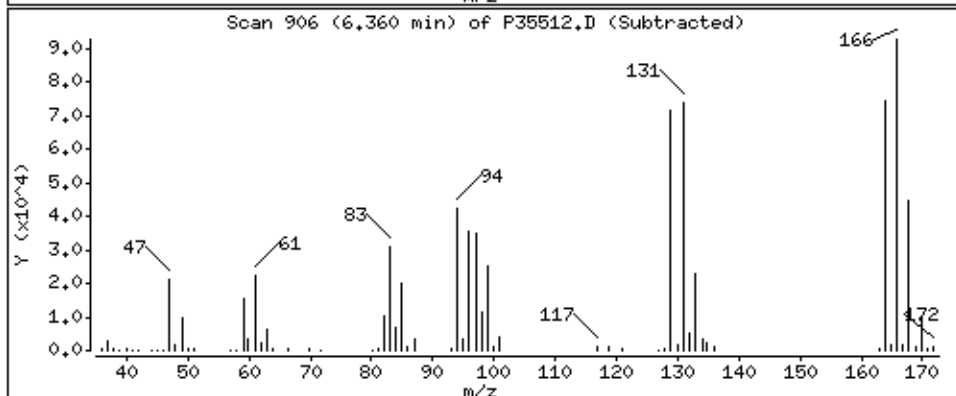
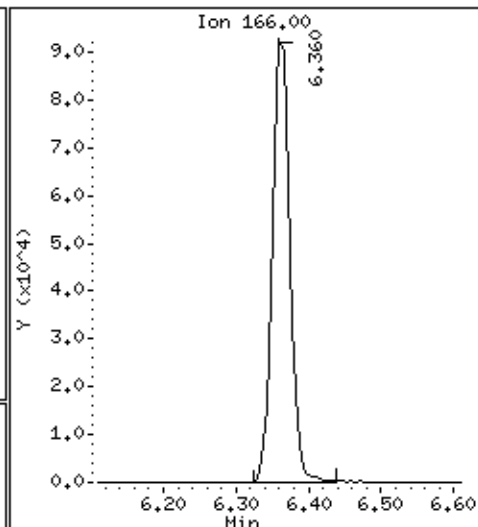
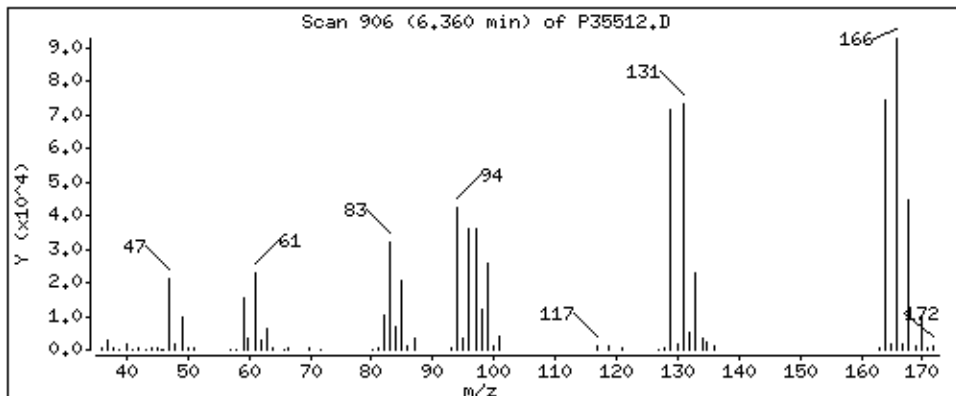
Column phase: RTX-624

Column diameter: 0,18

77 Tetrachloroethene

Concentration: 43,6 ug/L

Review Code:

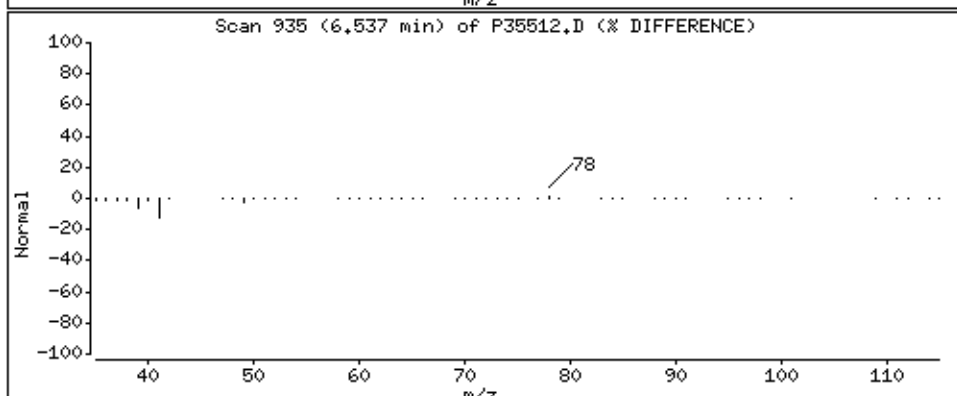
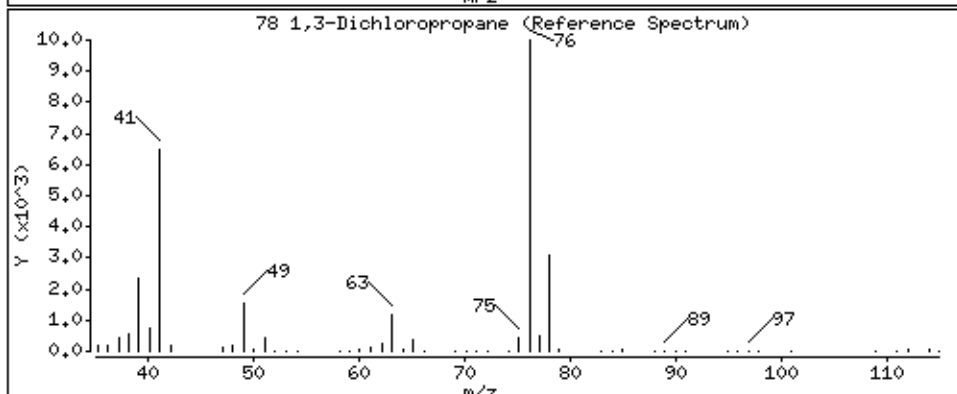
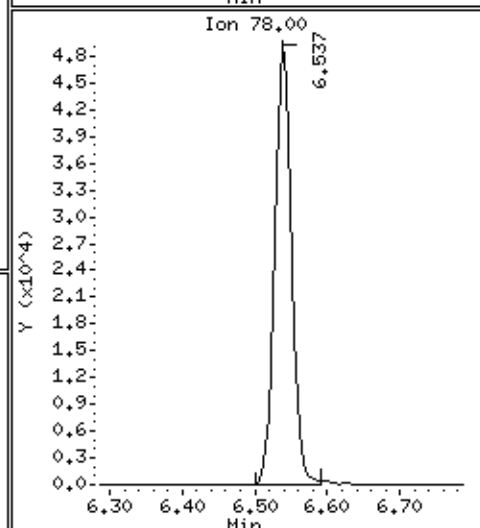
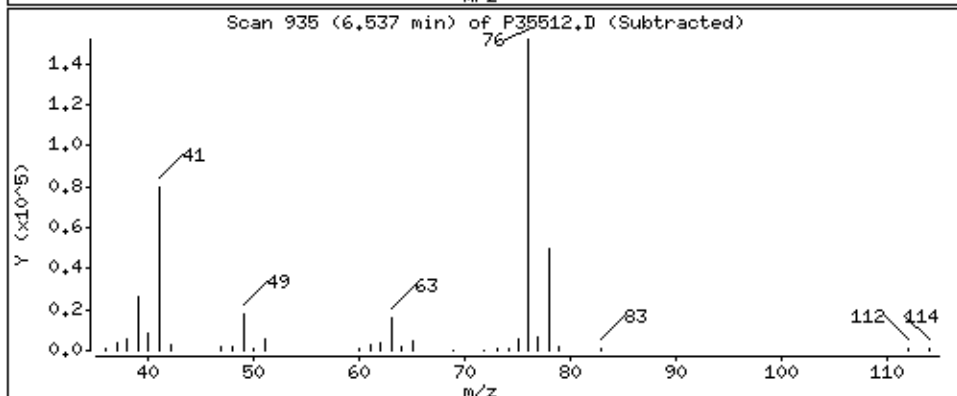
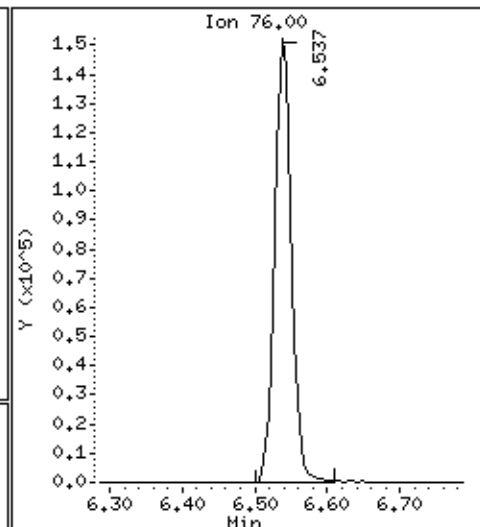
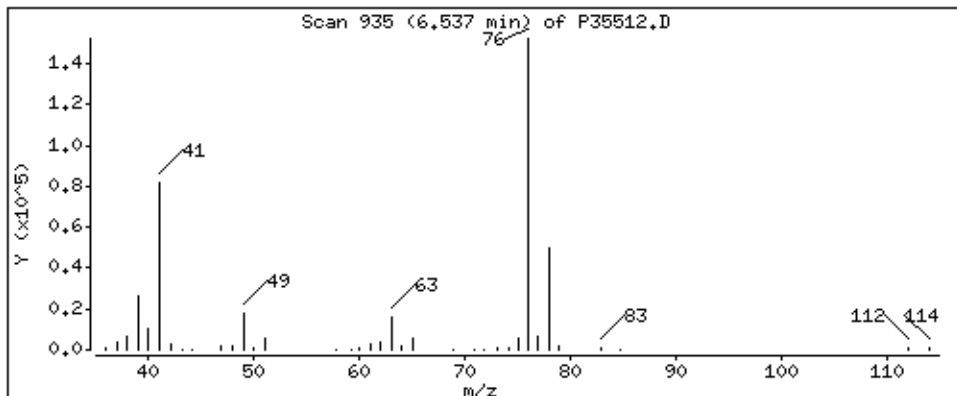




78 1,3-Dichloropropane

Concentration: 45,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

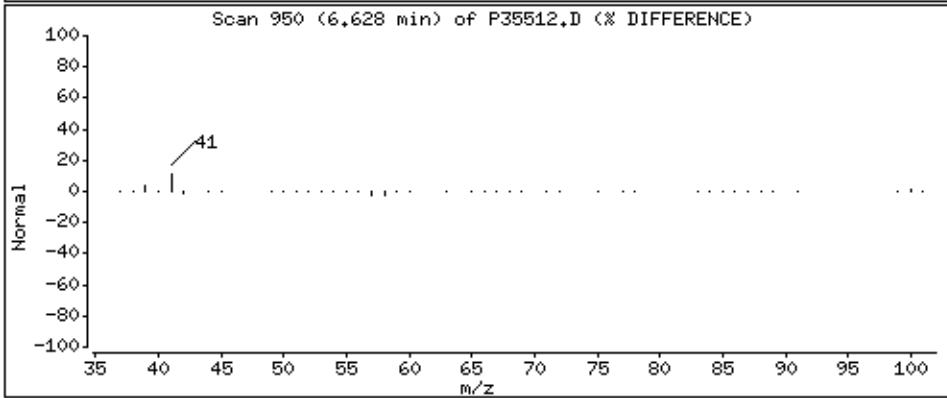
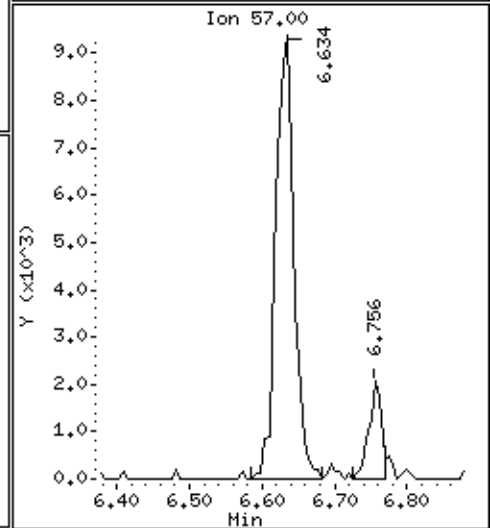
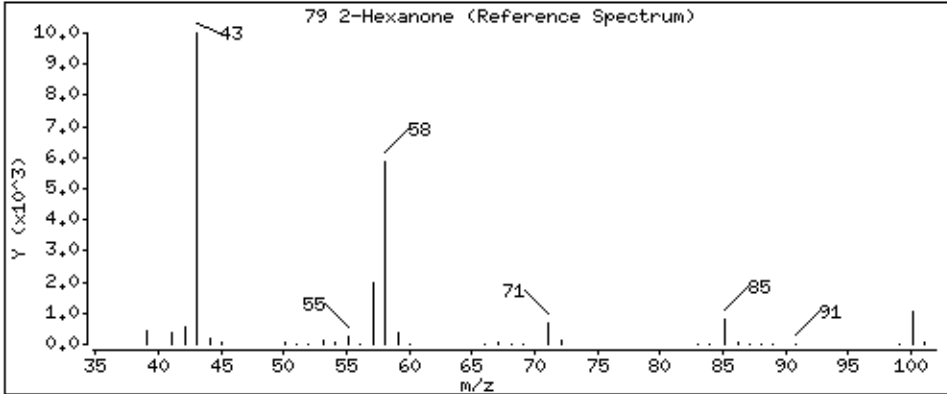
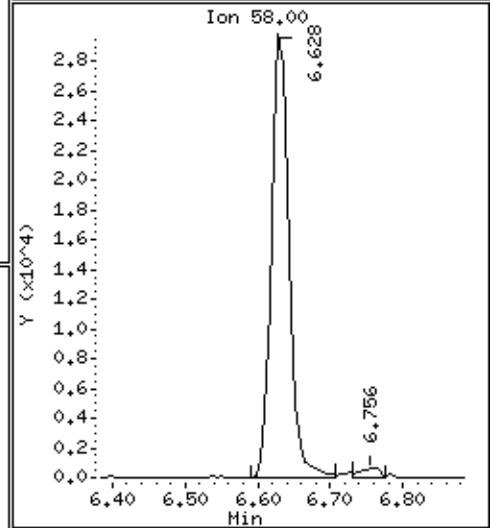
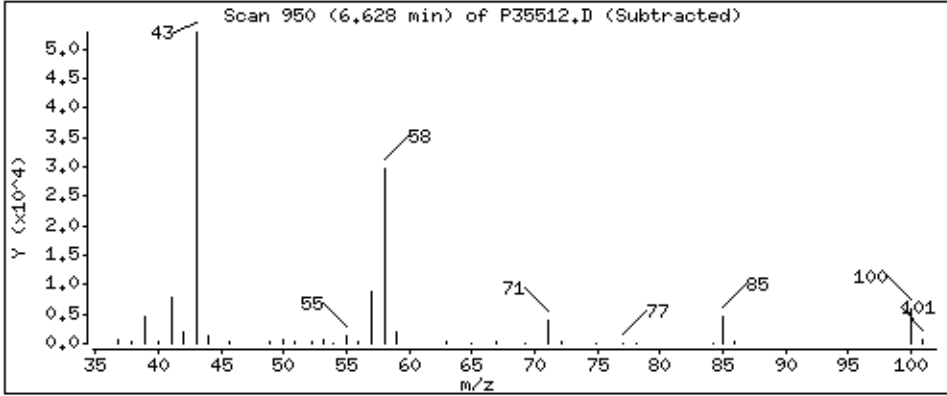
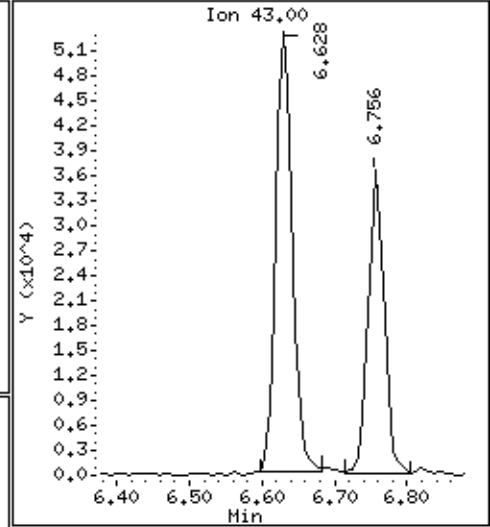
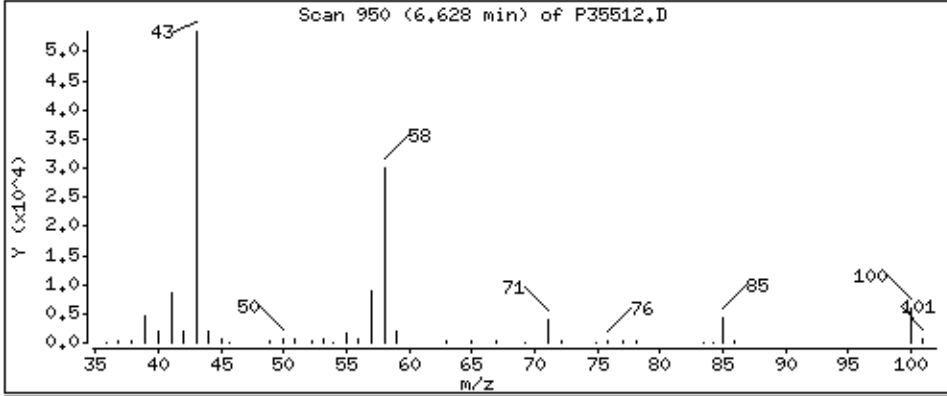
Column phase: RTX-624

Column diameter: 0,18

79 2-Hexanone

Concentration: 37,9 ug/L

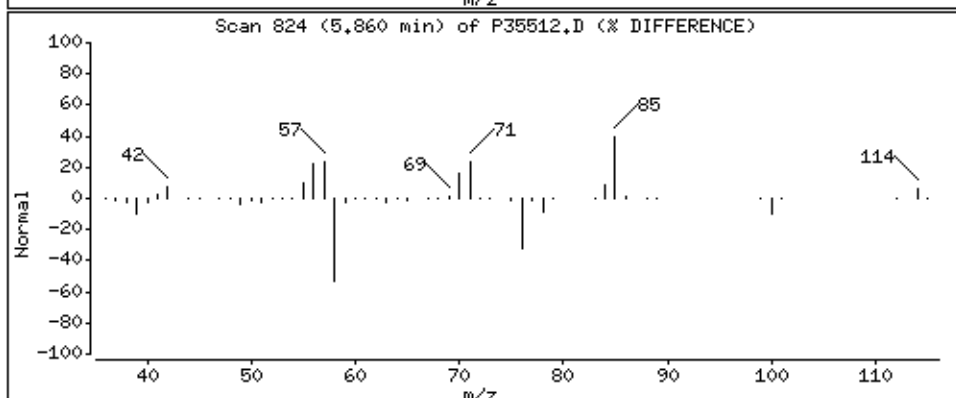
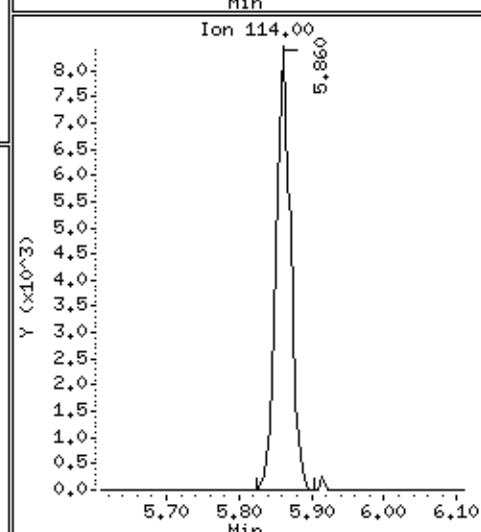
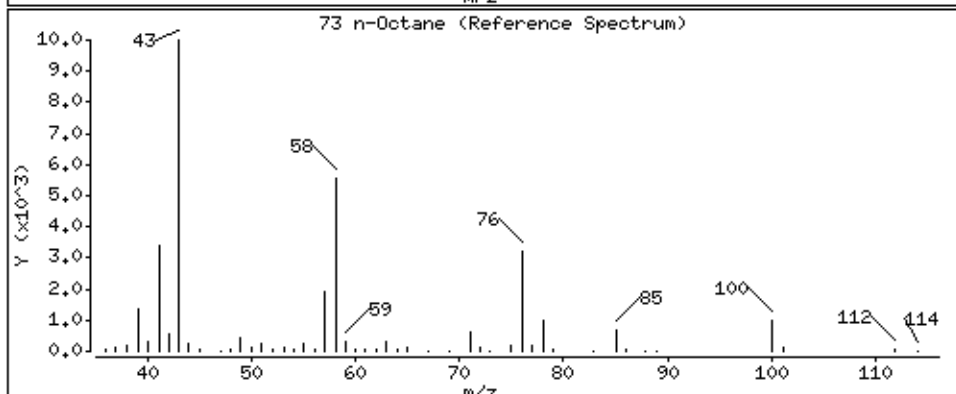
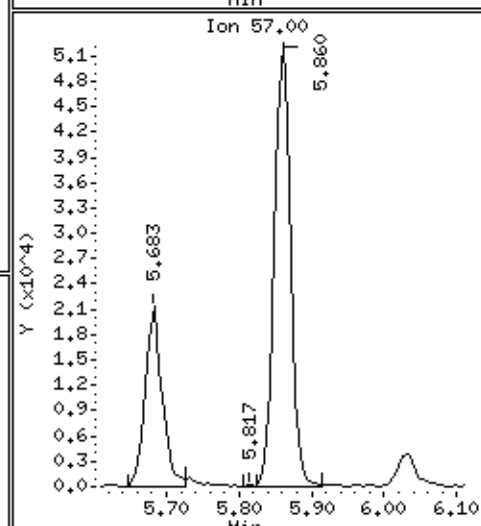
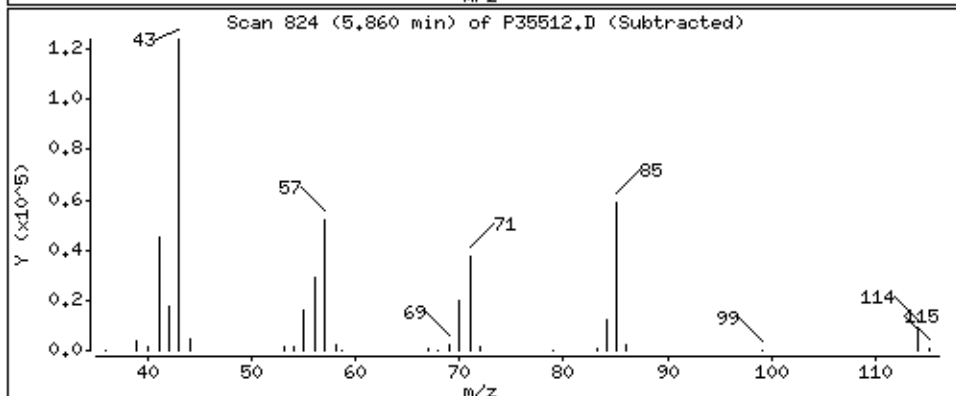
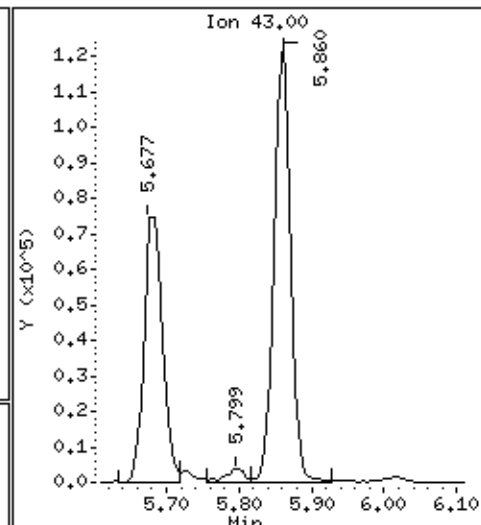
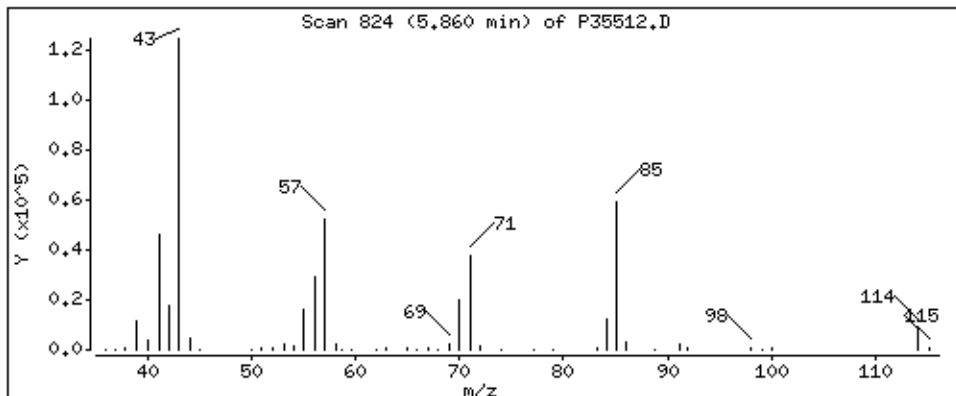
Review Code:



73 n-Octane

Concentration: 37,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

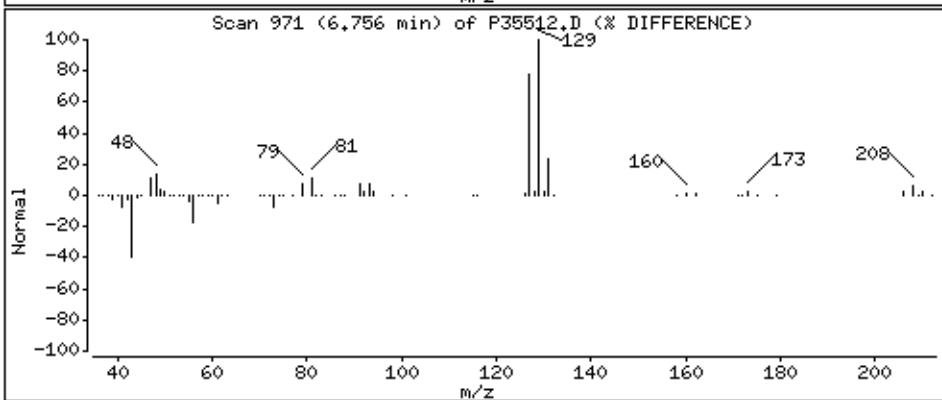
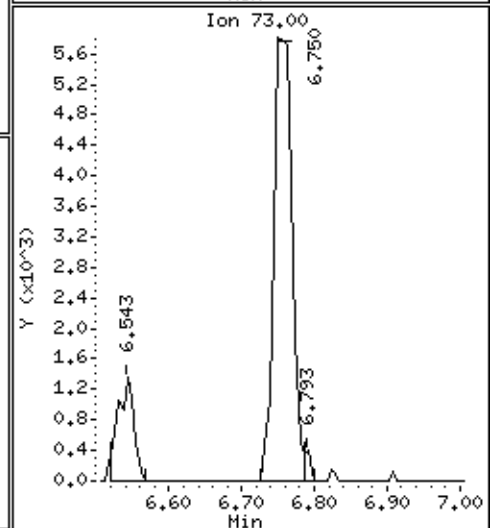
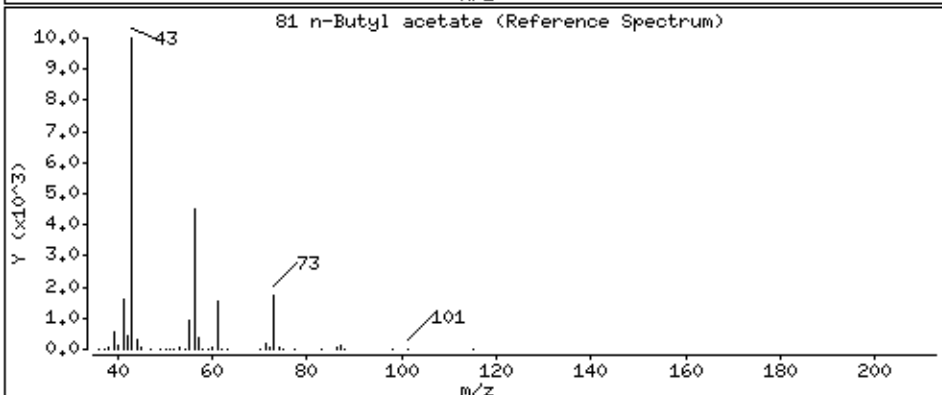
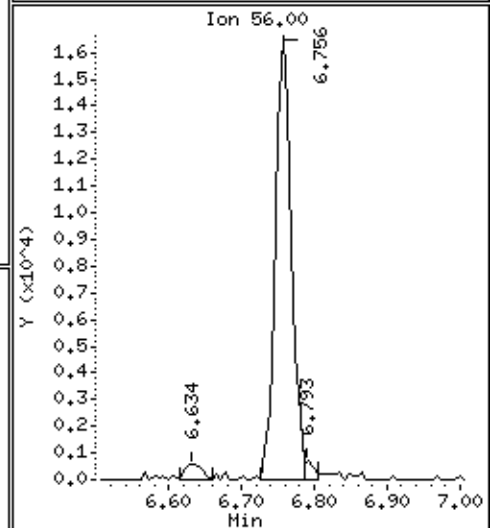
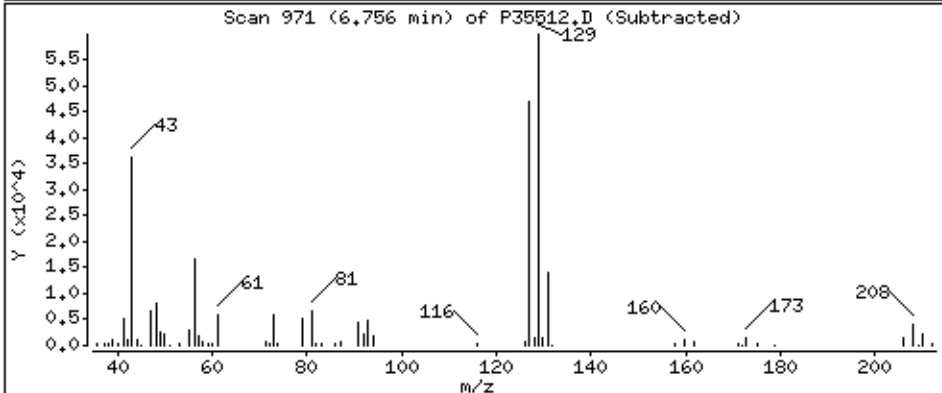
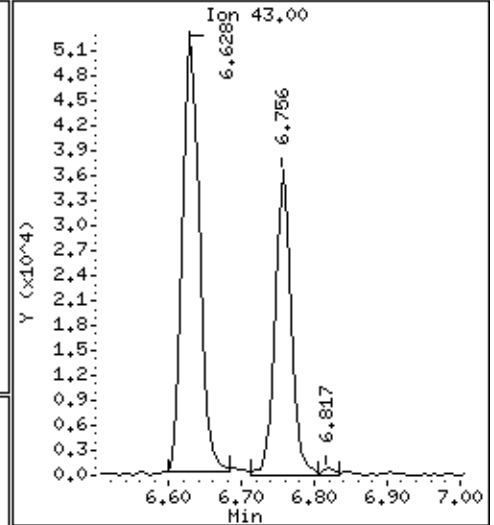
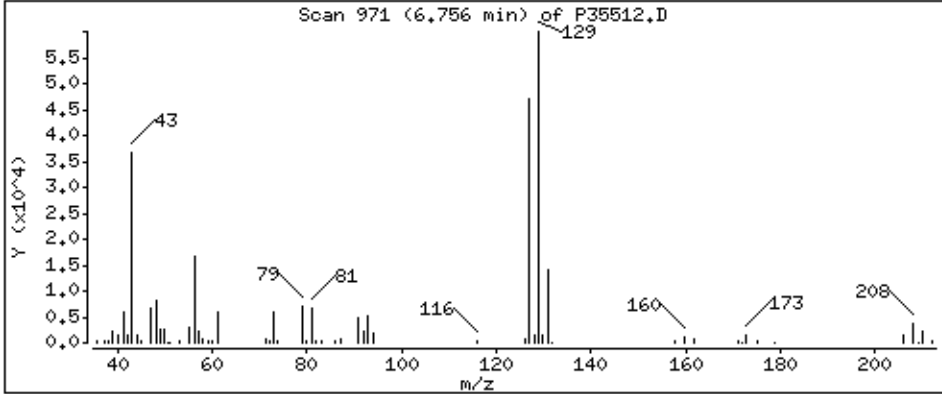
Column phase: RTX-624

Column diameter: 0,18

81 n-Butyl acetate

Concentration: 63,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

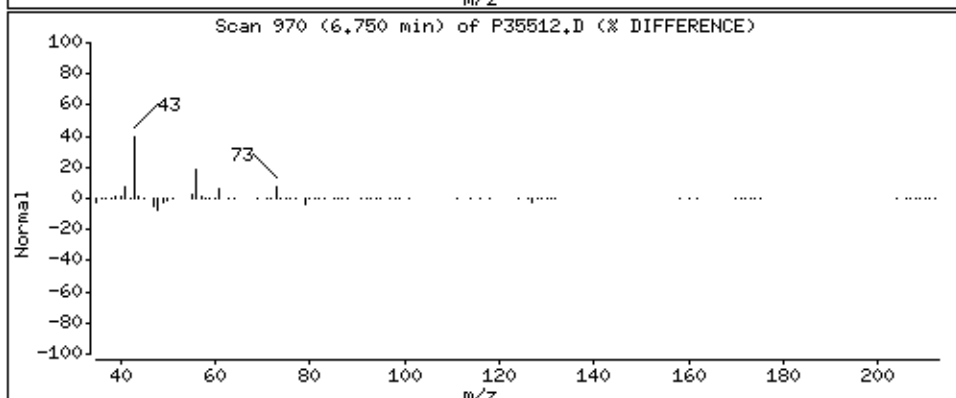
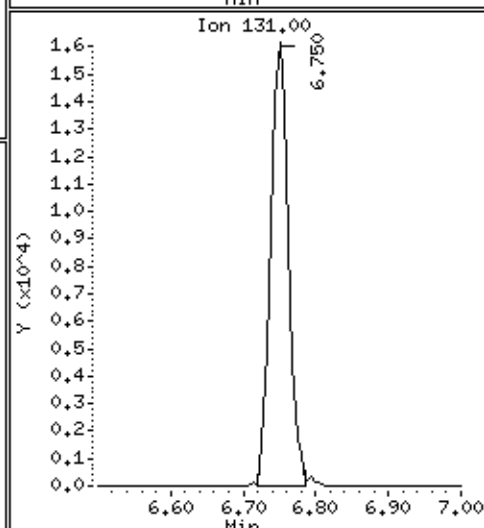
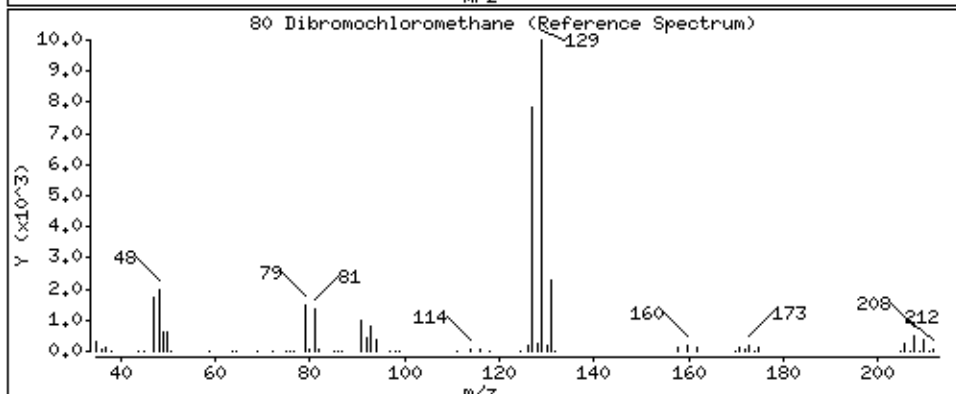
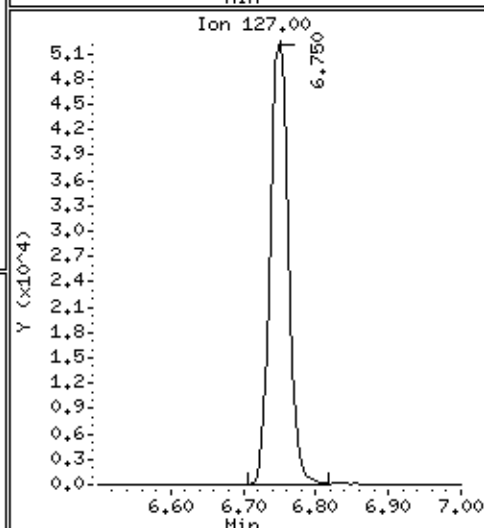
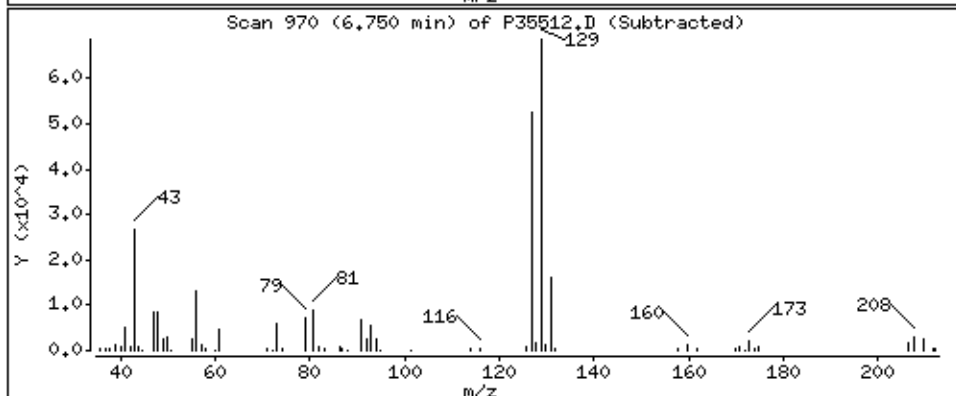
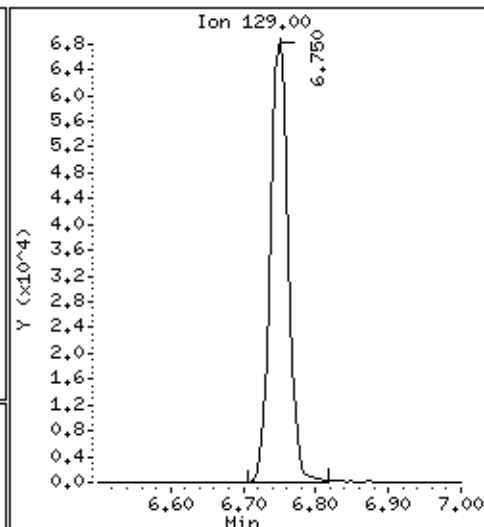
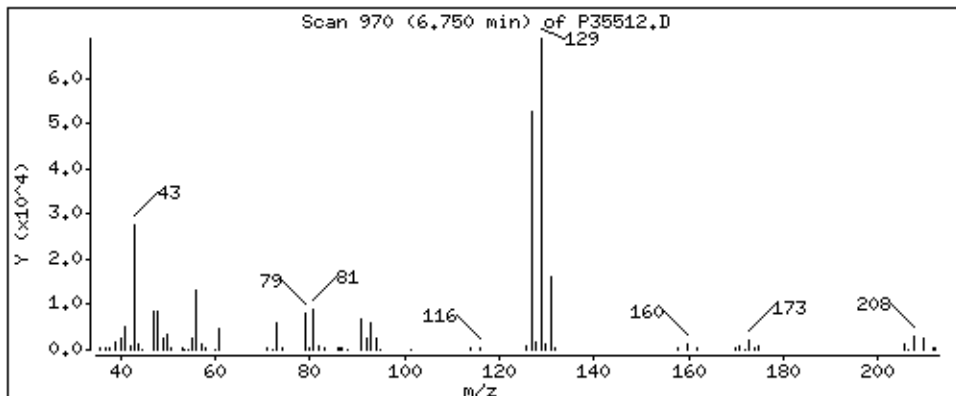
Column phase: RTX-624

Column diameter: 0,18

80 Dibromochloromethane

Concentration: 40,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

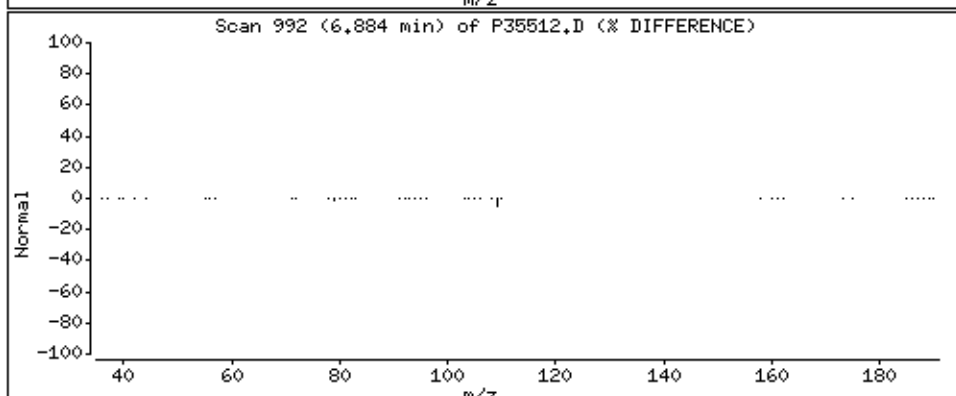
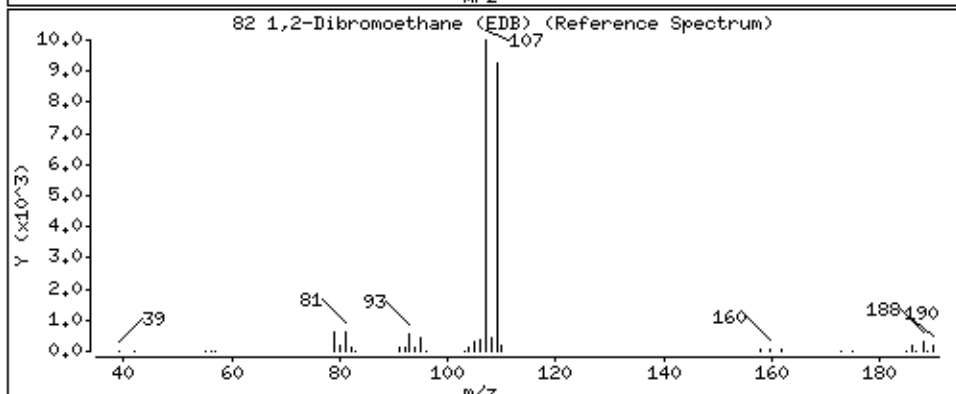
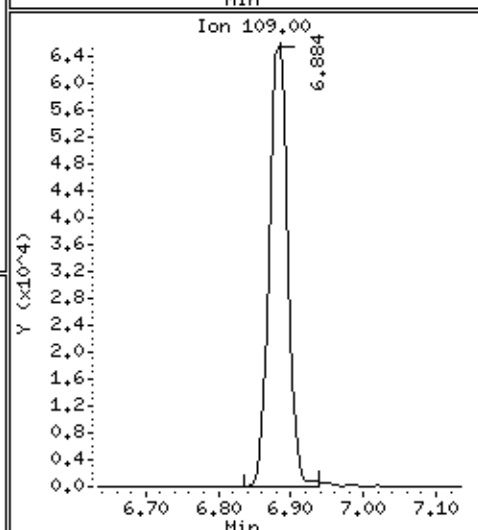
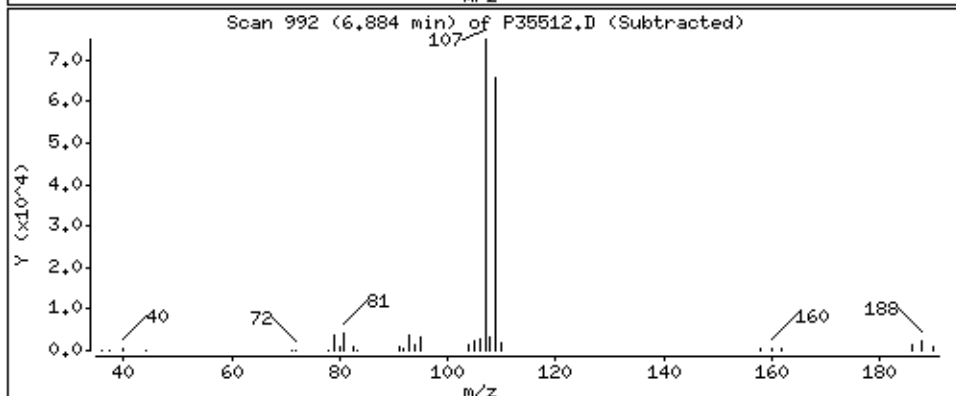
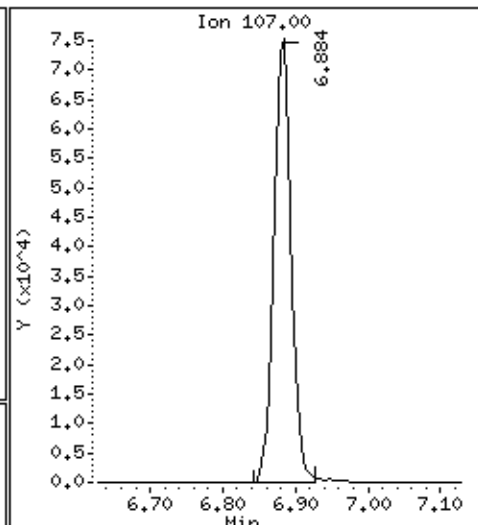
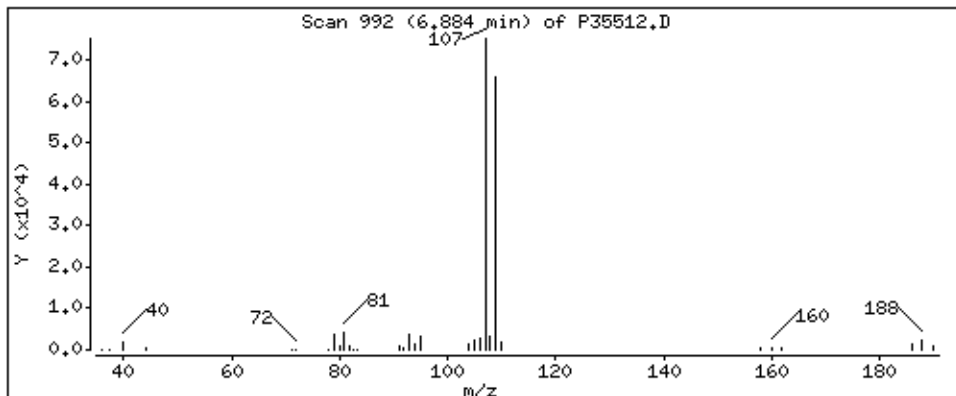
Column phase: RTX-624

Column diameter: 0,18

82 1,2-Dibromoethane (EDB)

Concentration: 44,9 ug/L

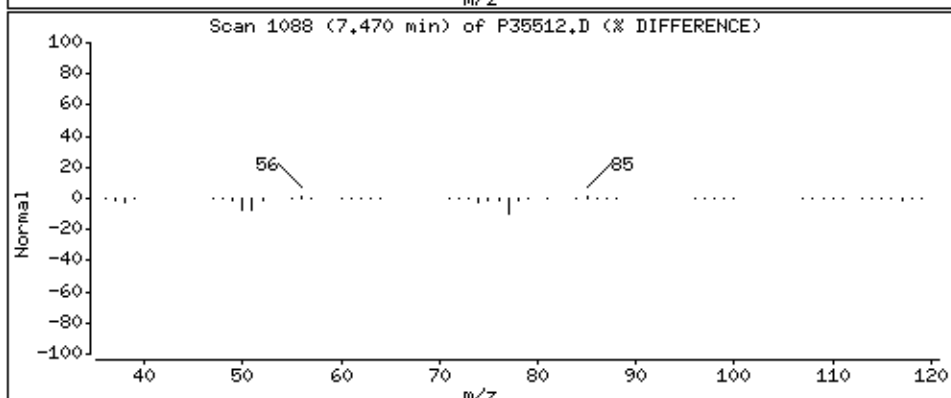
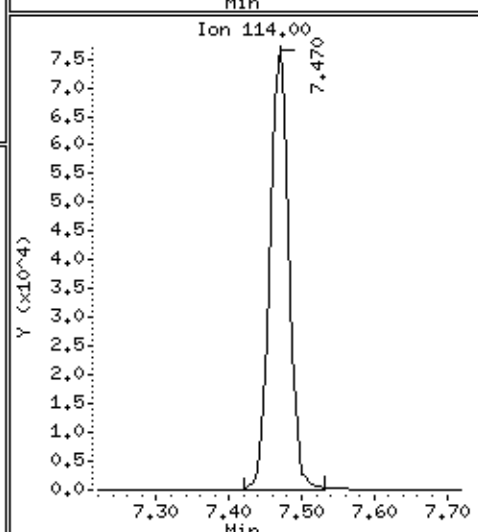
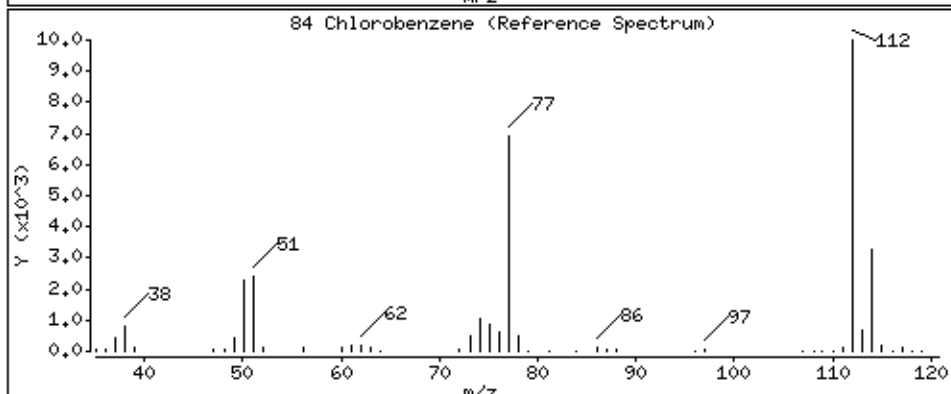
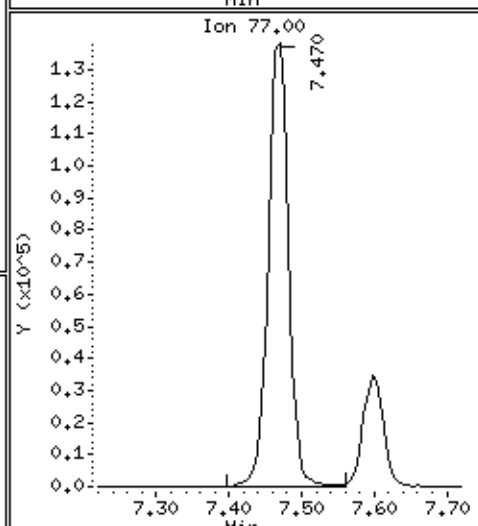
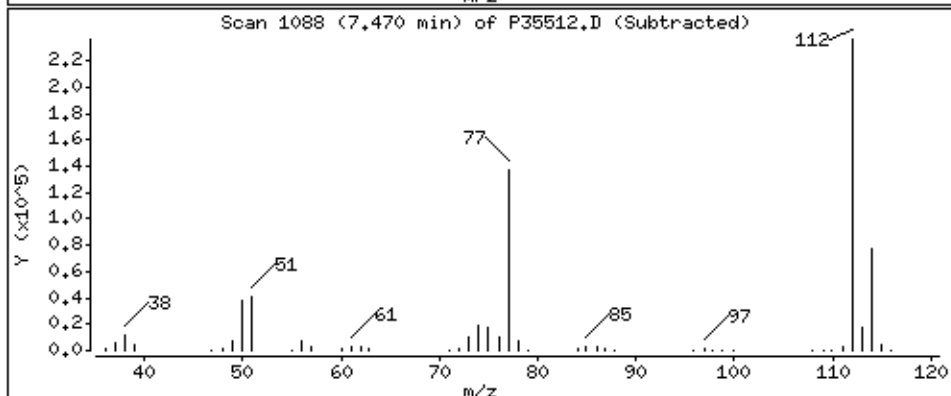
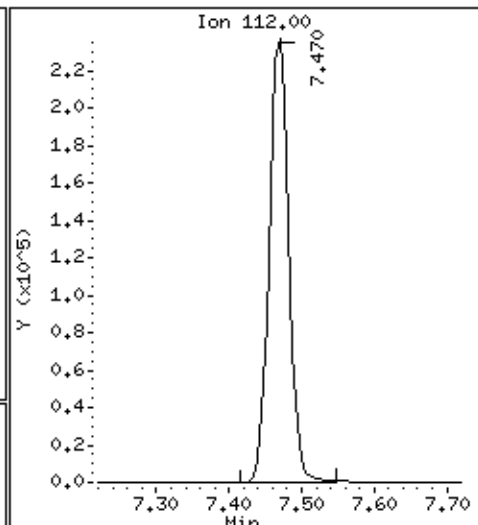
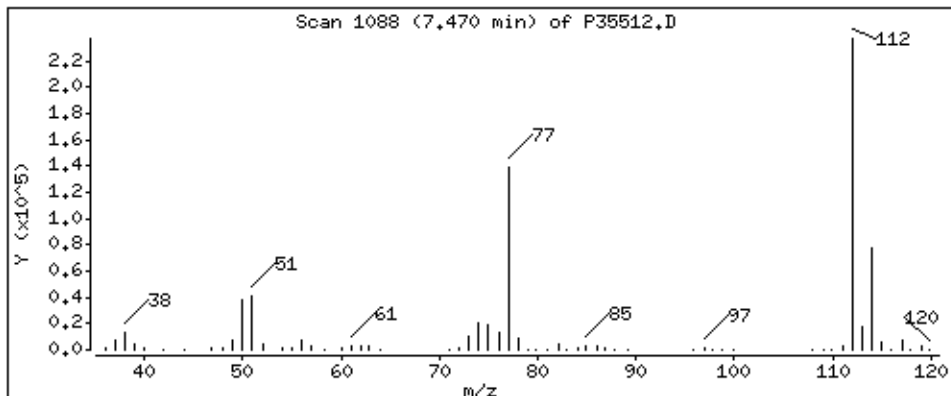
Review Code:



84 Chlorobenzene

Concentration: 45,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

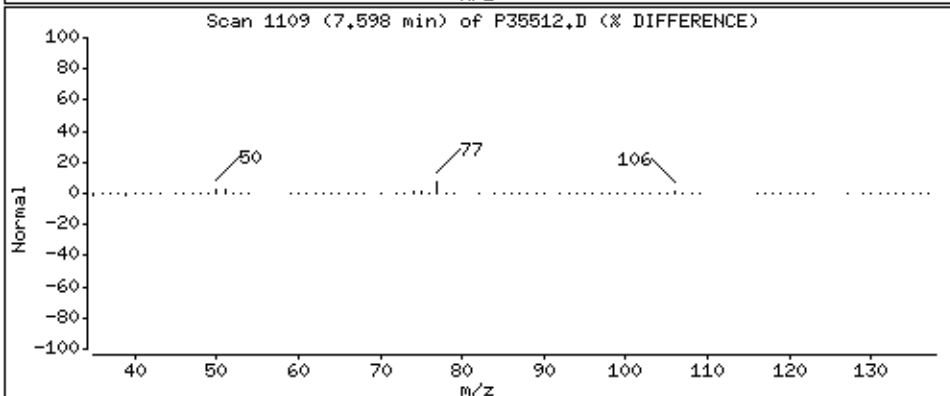
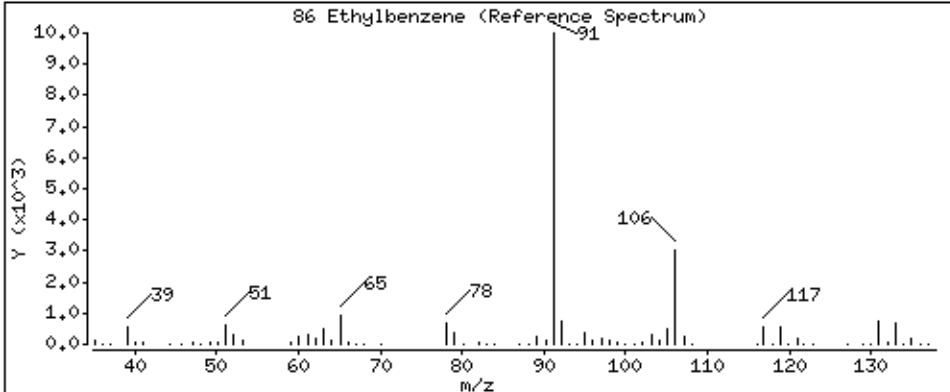
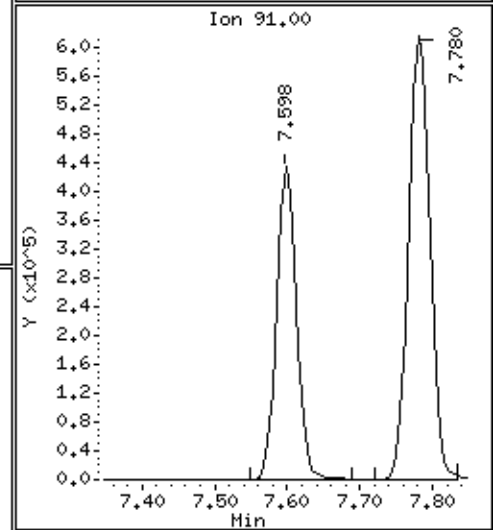
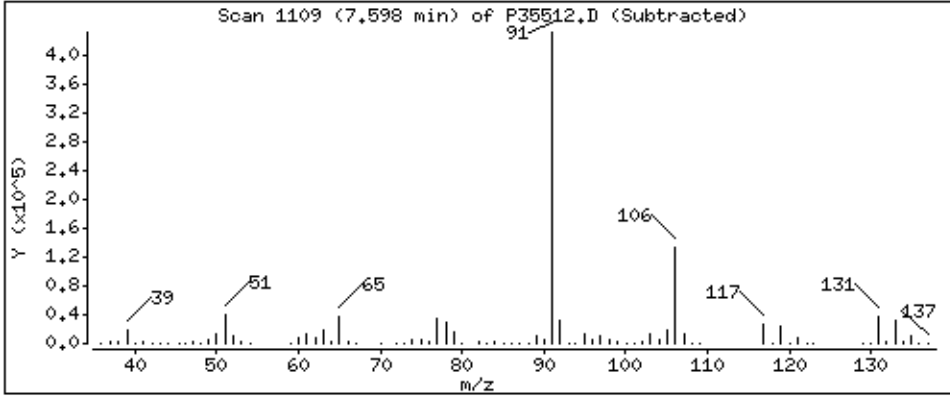
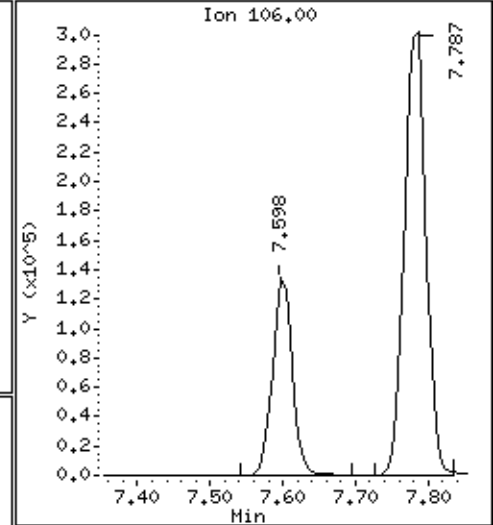
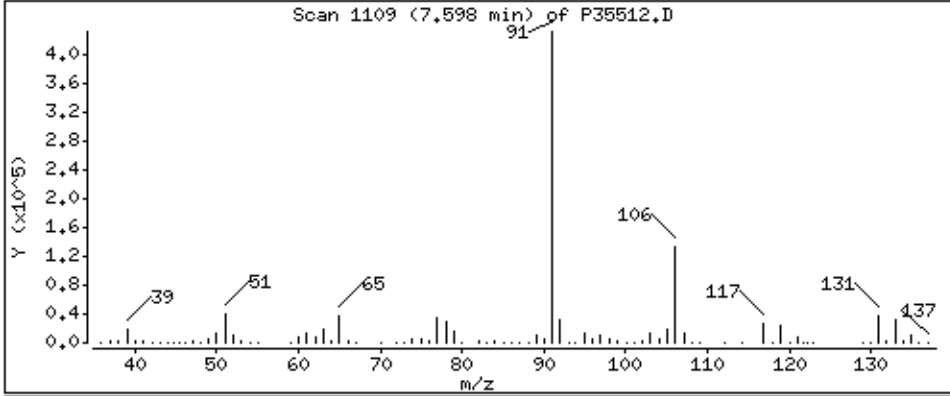
Column phase: RTX-624

Column diameter: 0.18

86 Ethylbenzene

Concentration: 44.9 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

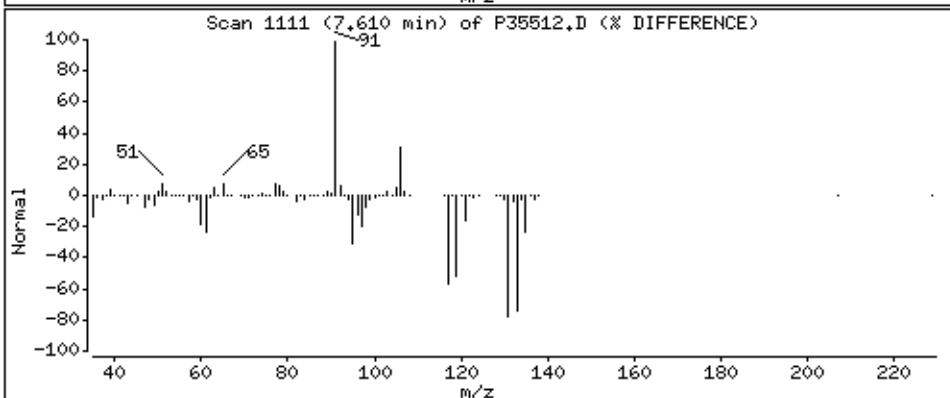
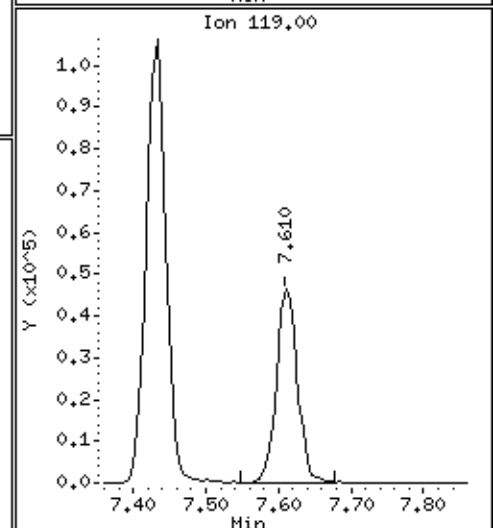
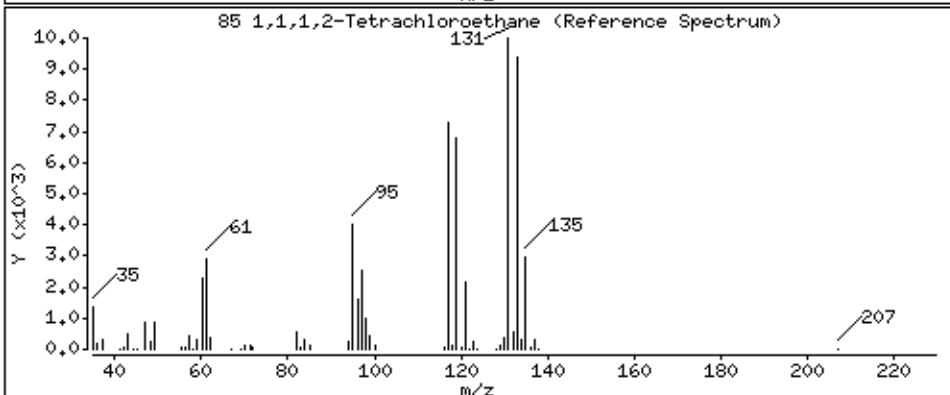
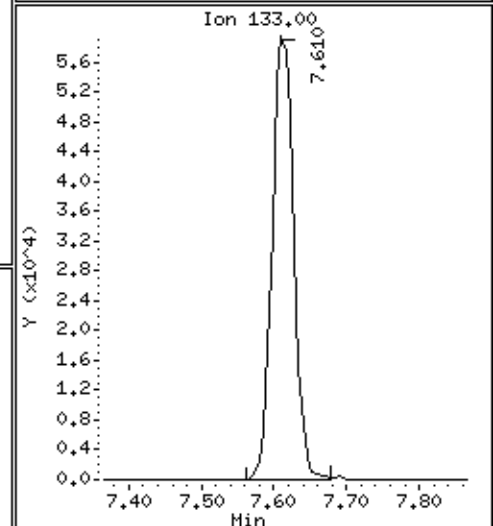
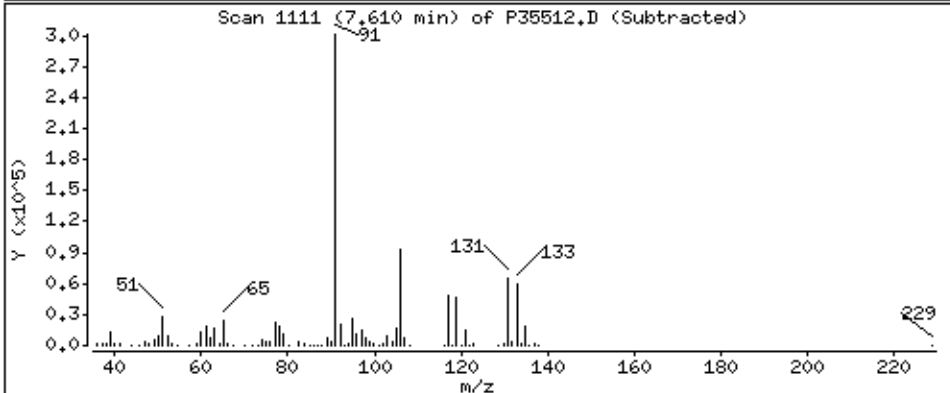
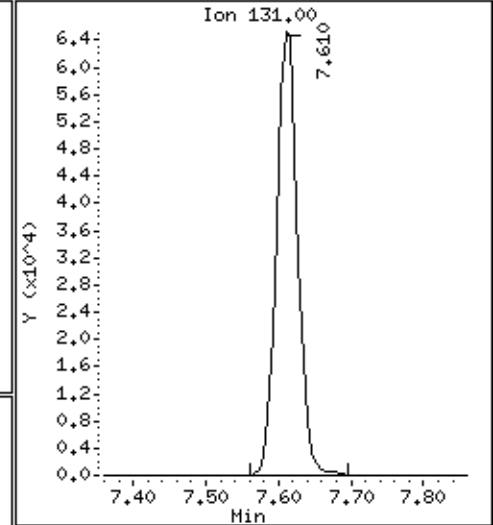
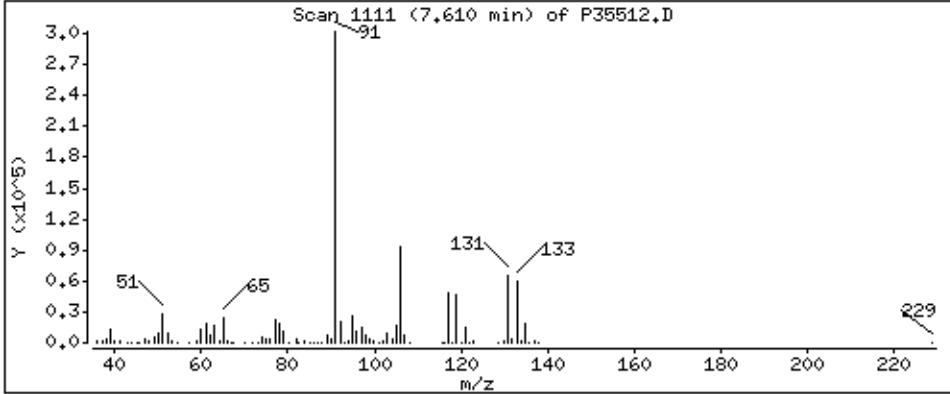
Column phase: RTX-624

Column diameter: 0,18

85 1,1,1,2-Tetrachloroethane

Concentration: 44,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

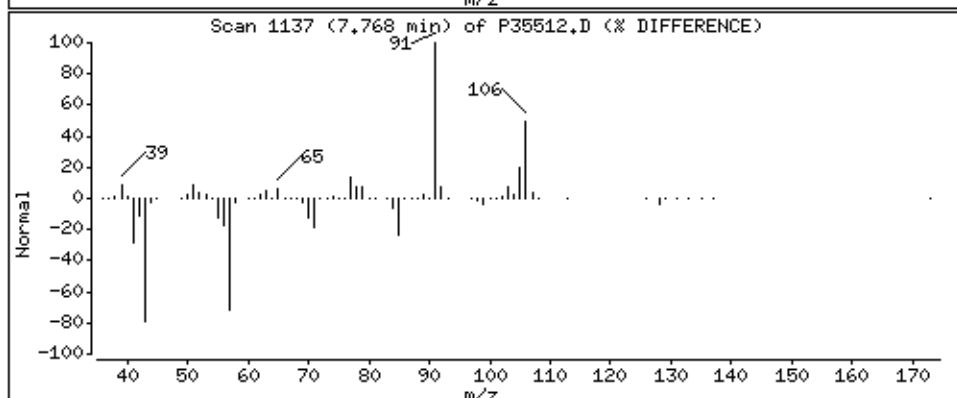
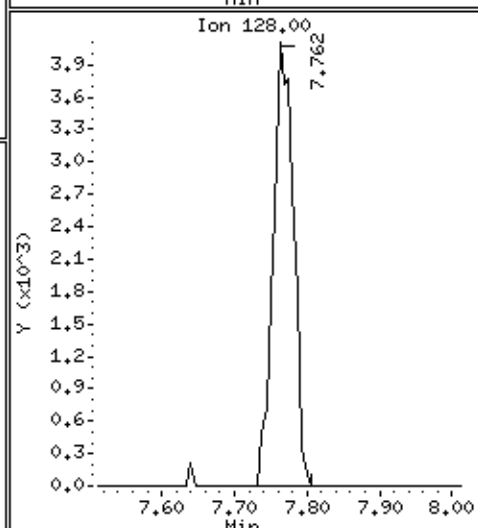
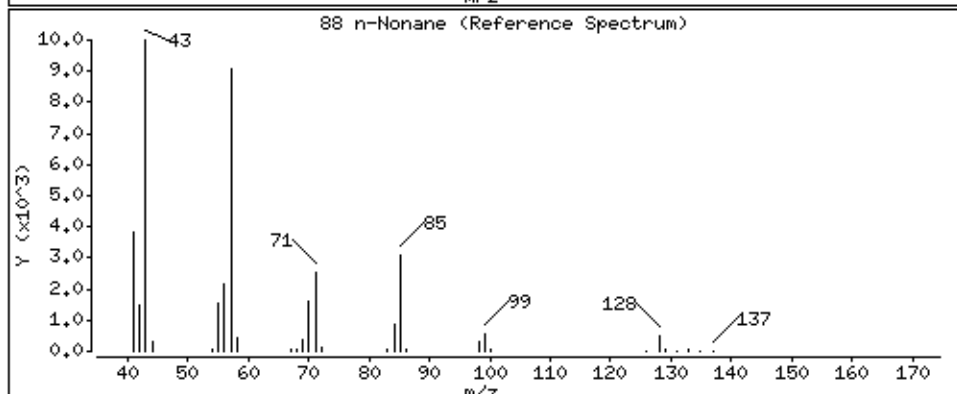
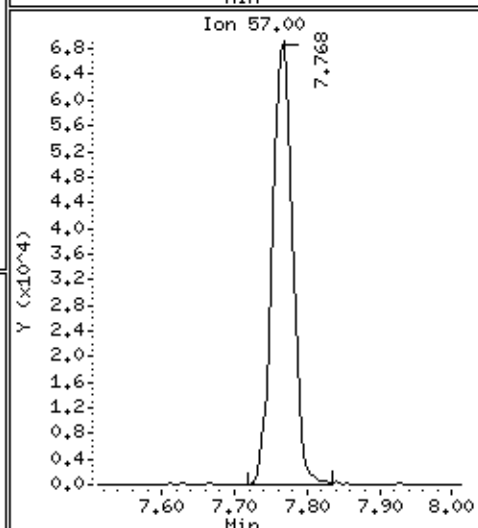
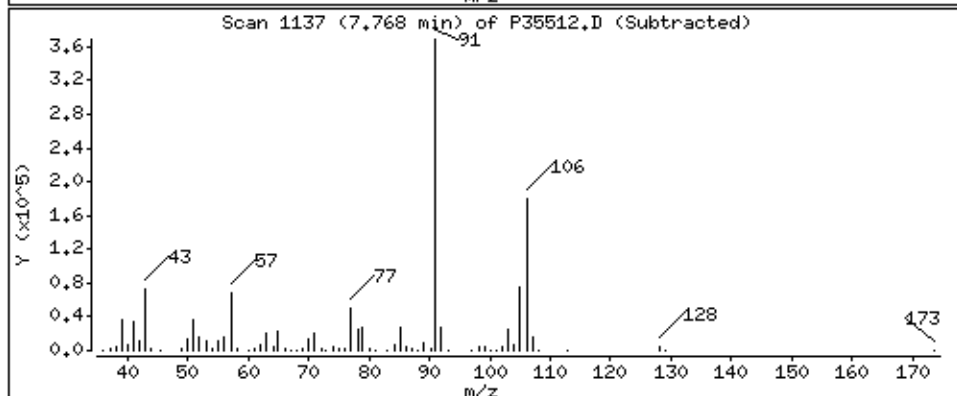
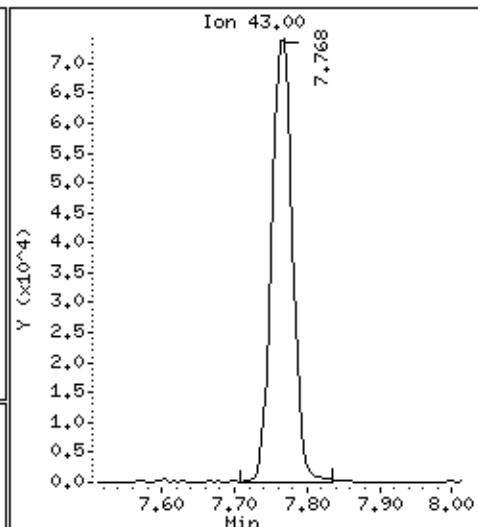
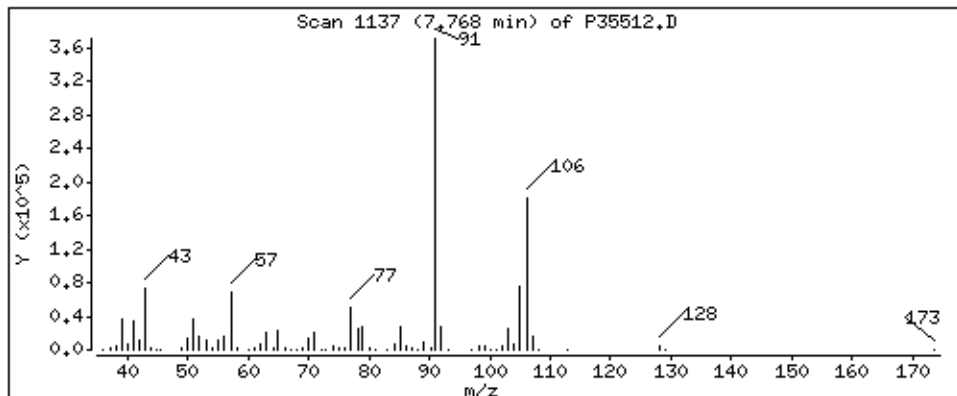
Column phase: RTX-624

Column diameter: 0,18

88 n-Nonane

Concentration: 39,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

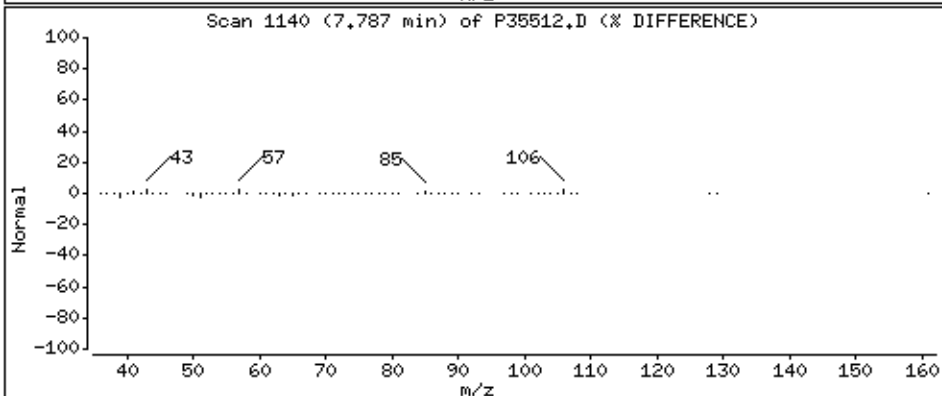
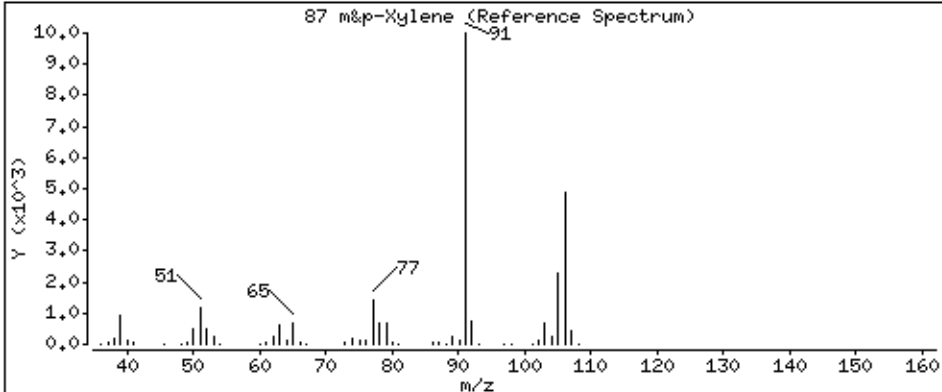
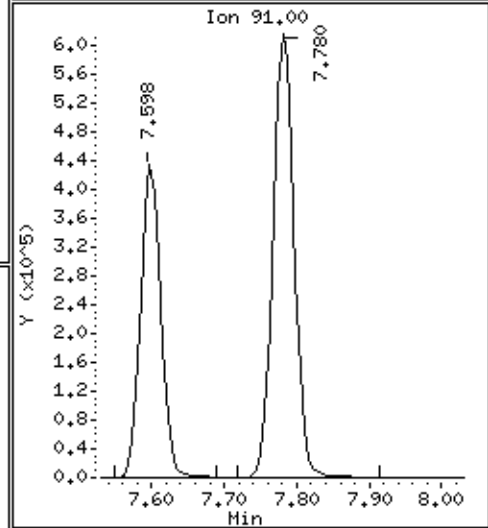
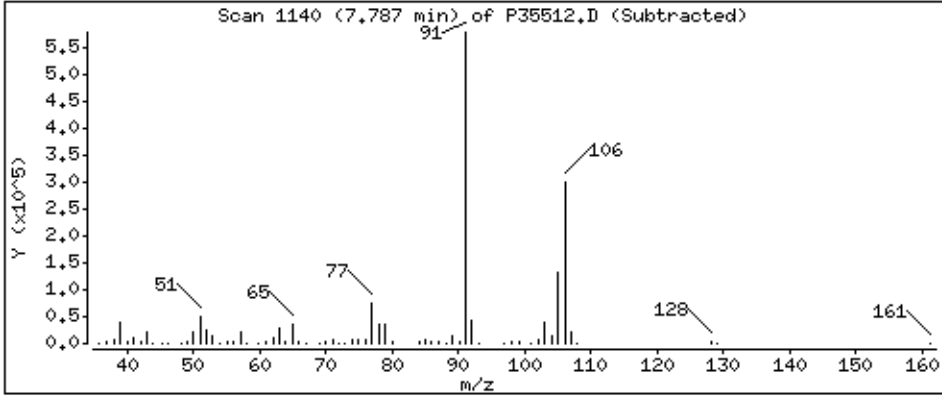
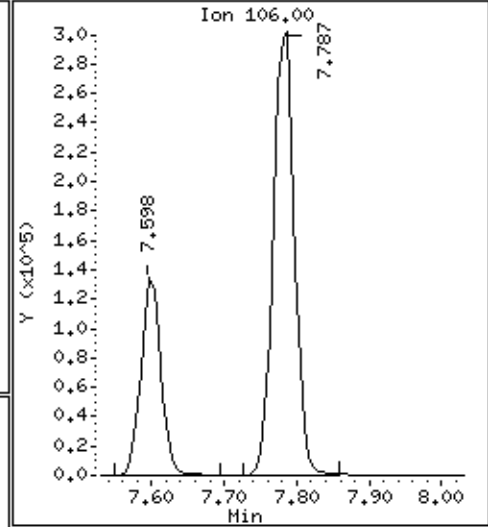
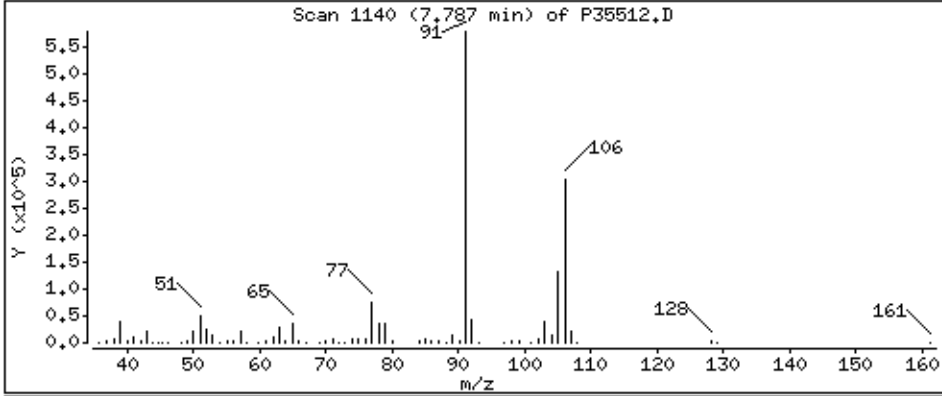
Column phase: RTX-624

Column diameter: 0.18

87 m&p-Xylene

Concentration: 91.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

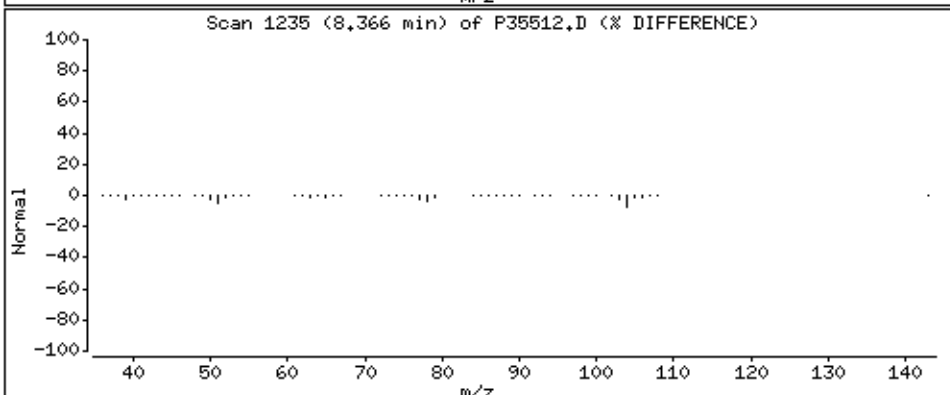
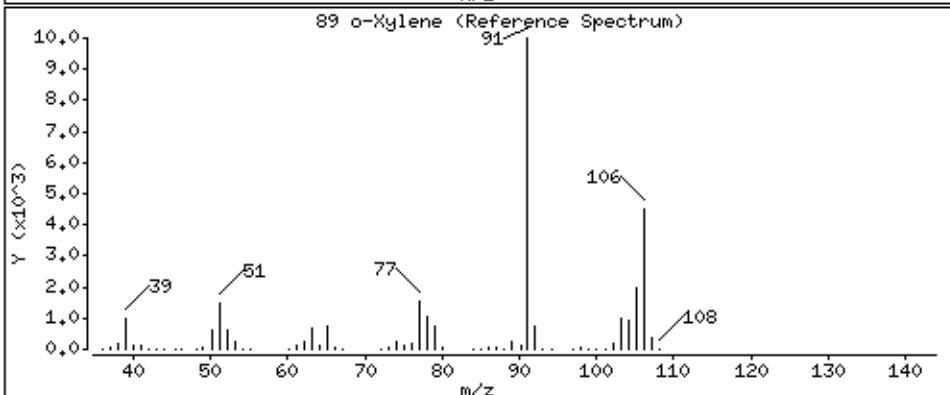
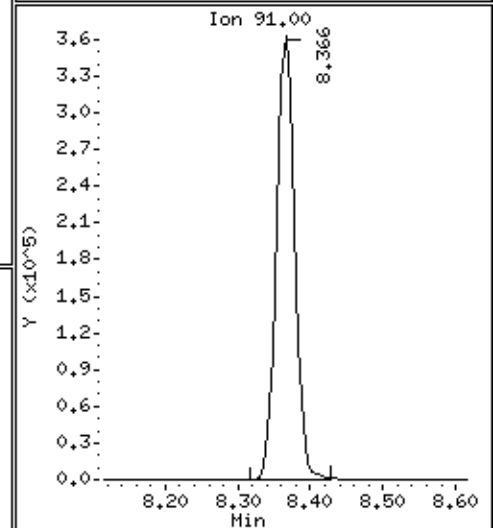
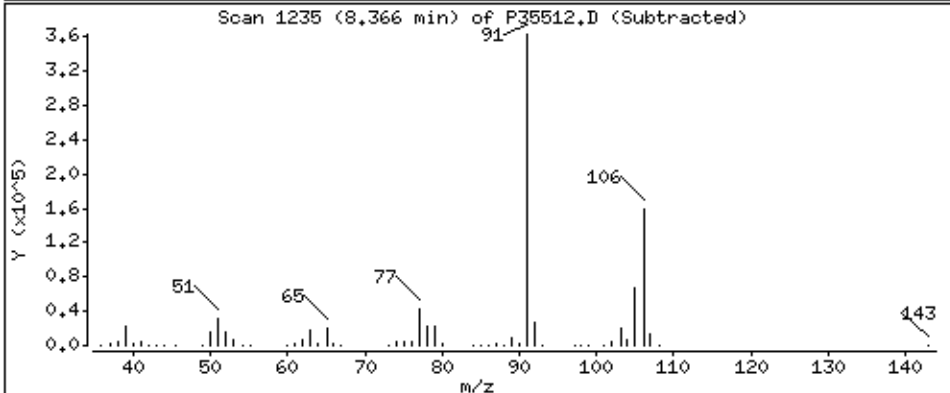
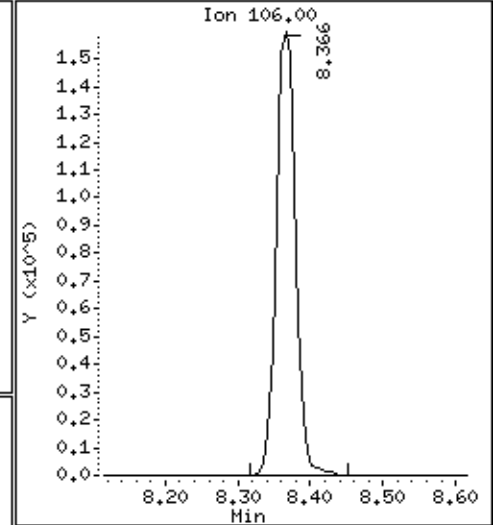
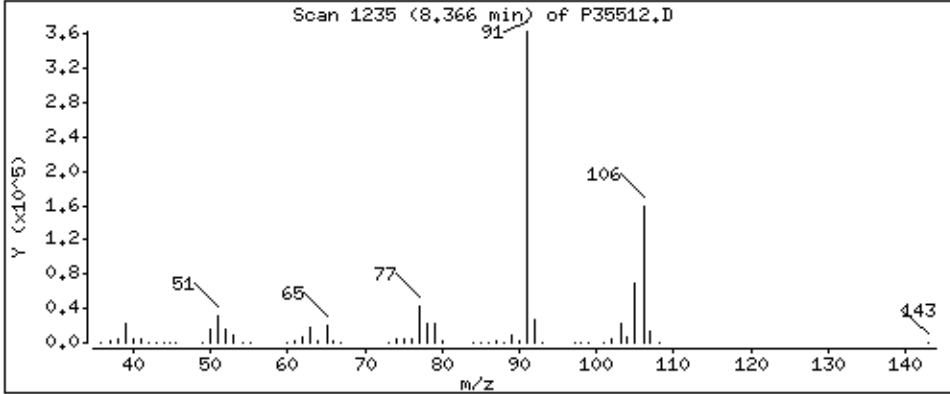
Column phase: RTX-624

Column diameter: 0.18

89 o-Xylene

Concentration: 46.0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

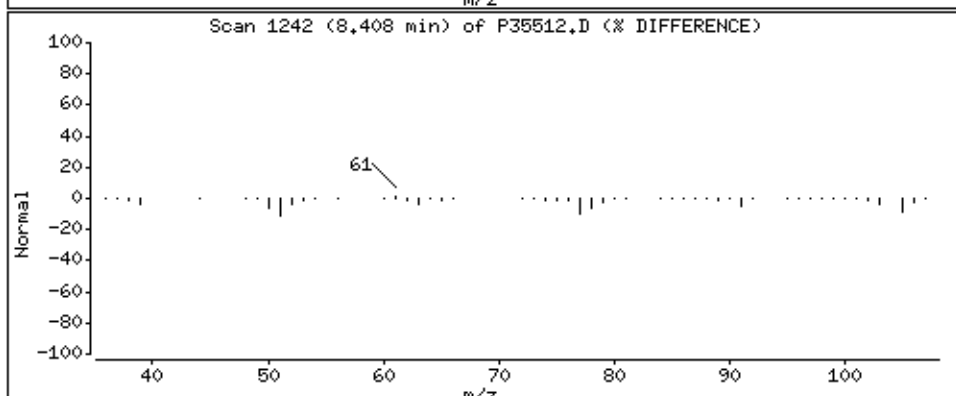
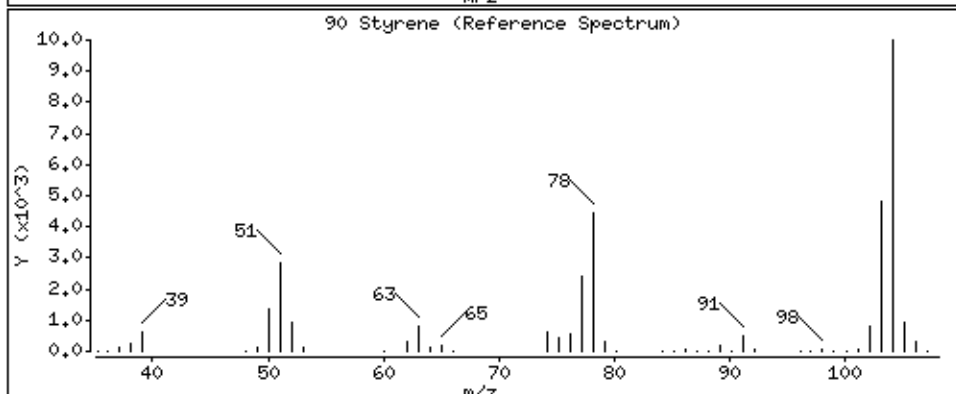
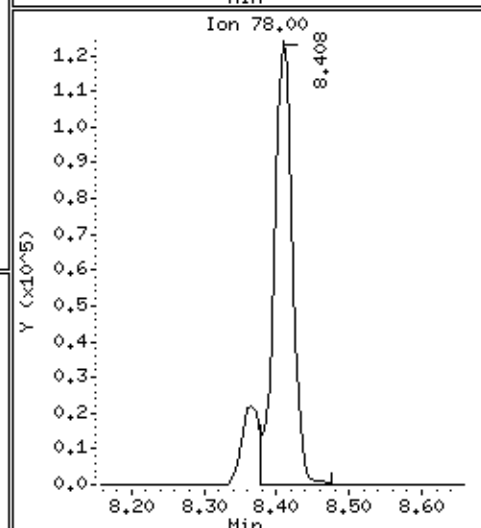
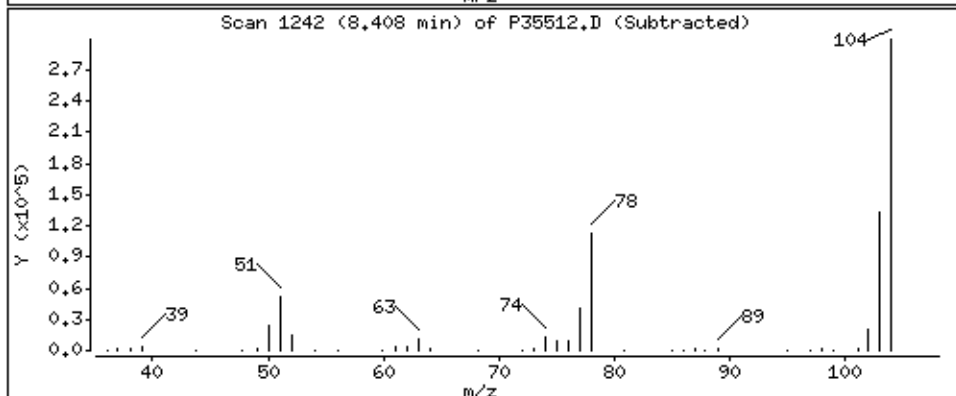
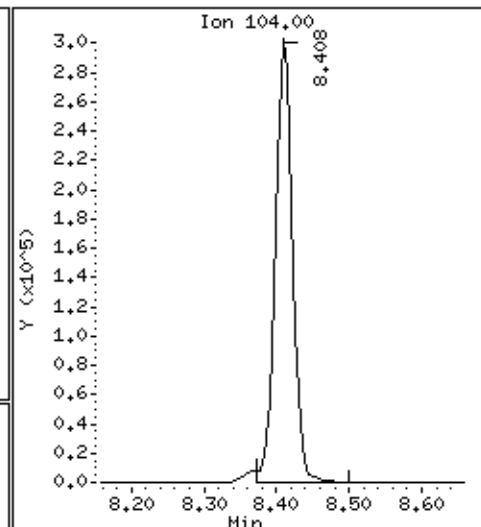
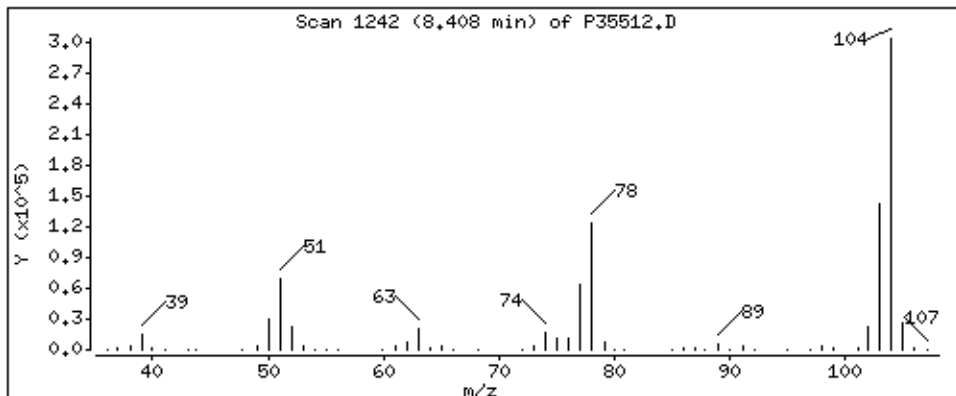
Column phase: RTX-624

Column diameter: 0,18

90 Styrene

Concentration: 47,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1,25

Purge Volume: 5.0

Operator: KGG

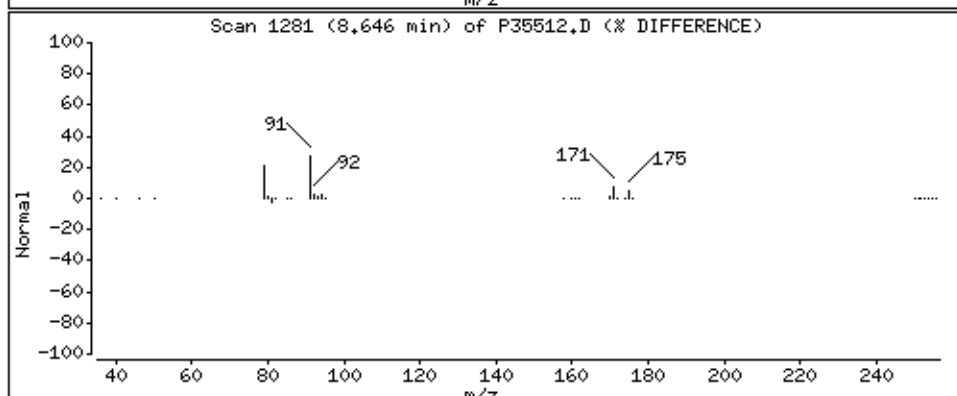
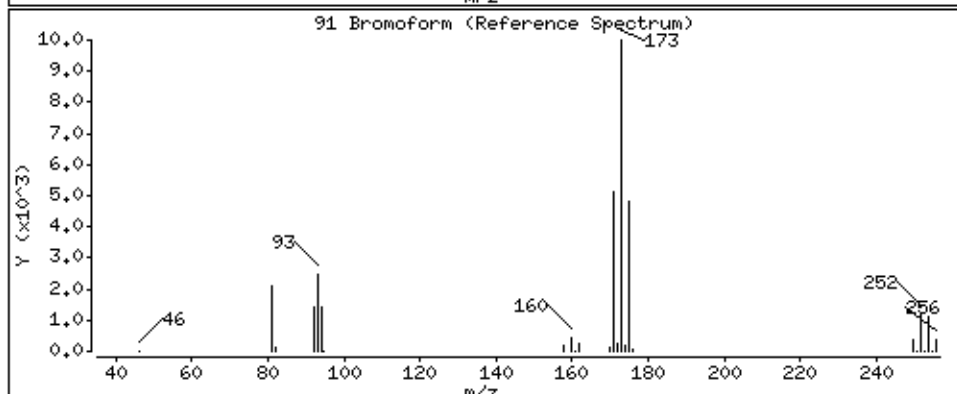
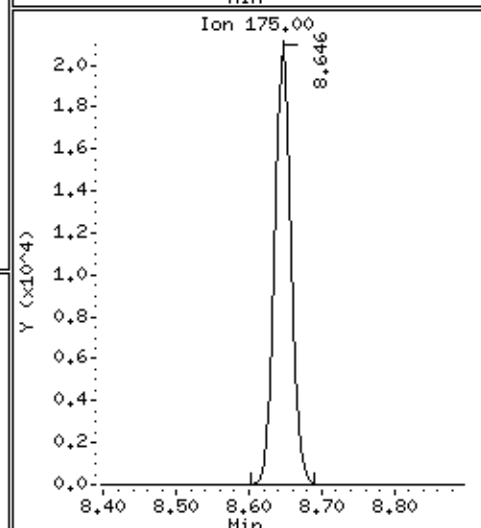
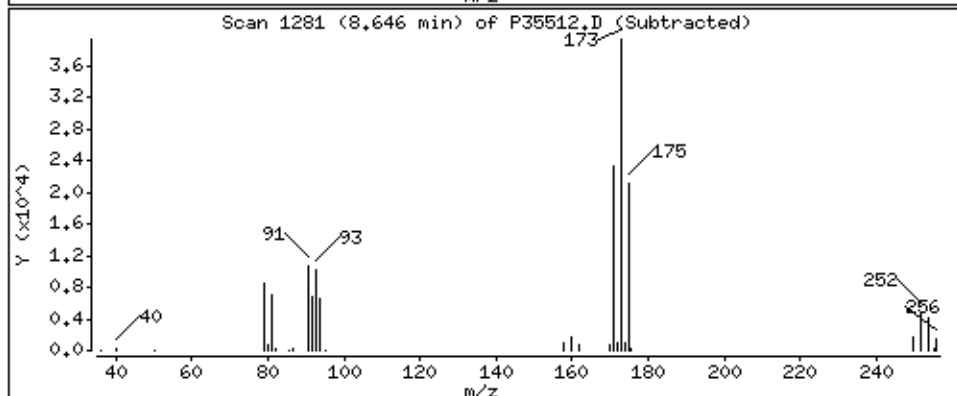
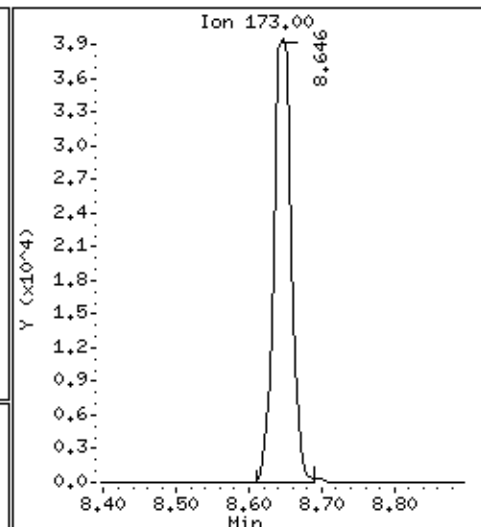
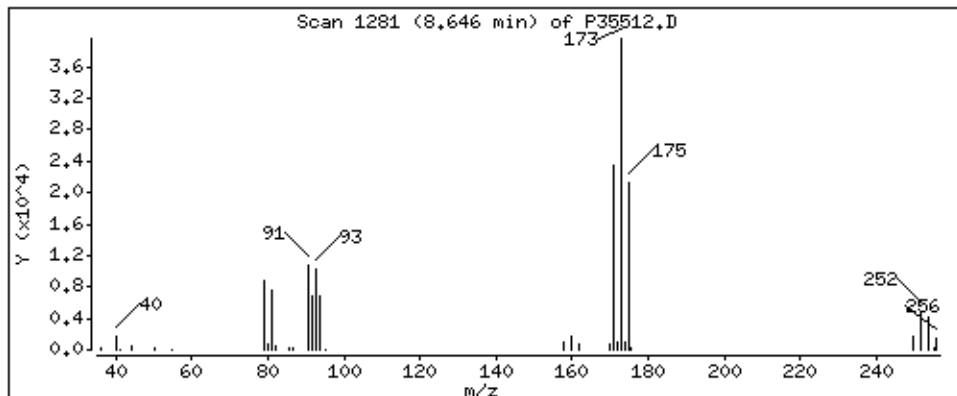
Column phase: RTX-624

Column diameter: 0,18

91 Bromoform

Concentration: 41.5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

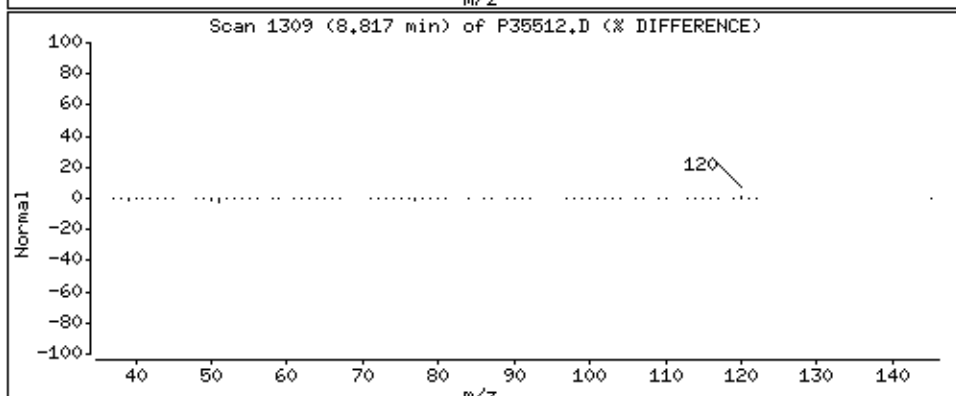
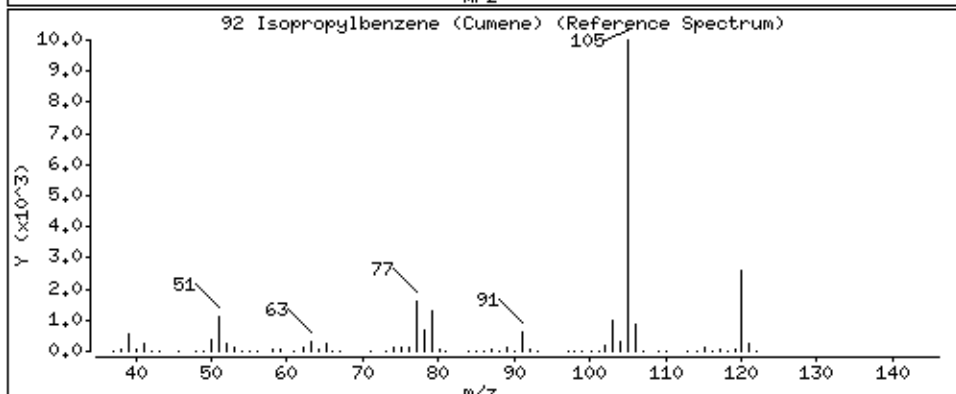
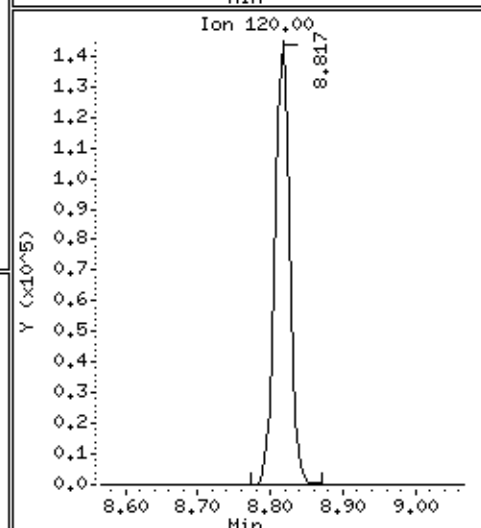
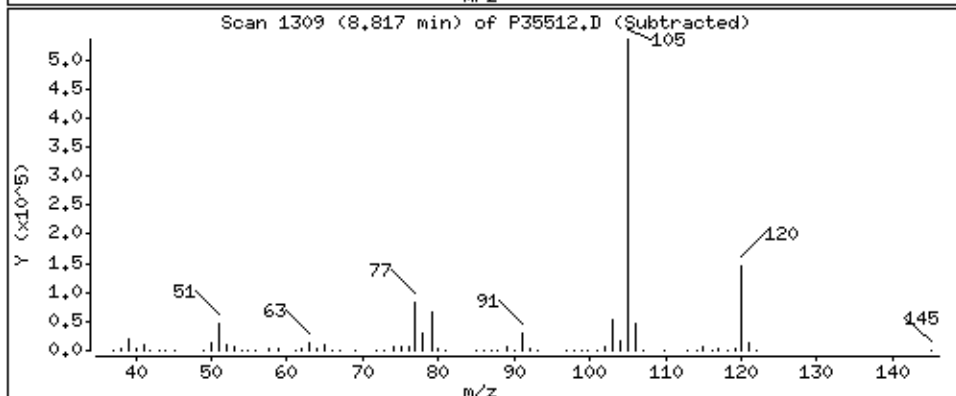
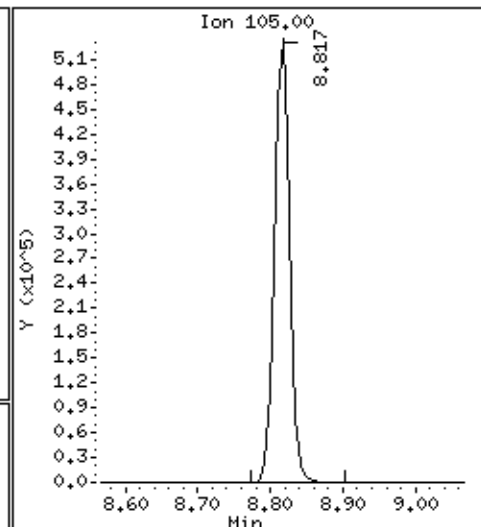
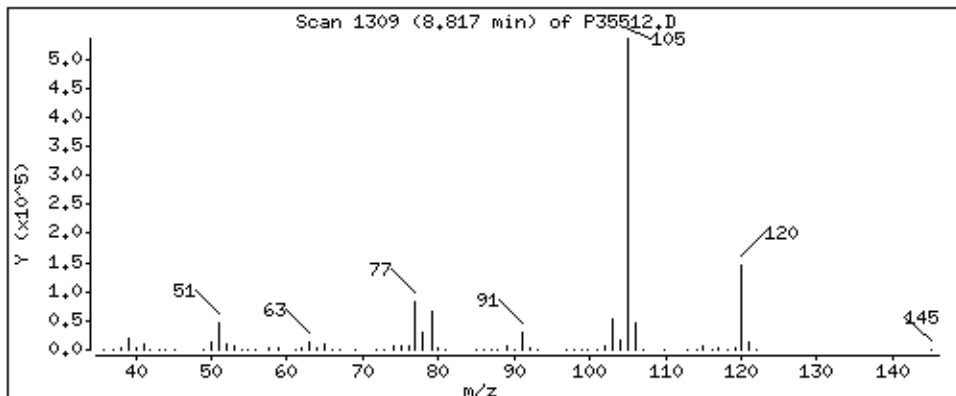
Column phase: RTX-624

Column diameter: 0.18

92 Isopropylbenzene (Cumene)

Concentration: 47.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1,25

Purge Volume: 5.0

Operator: KGG

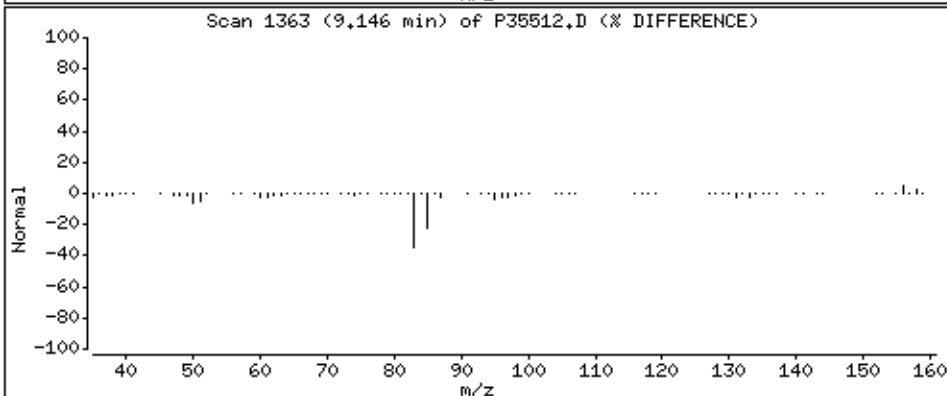
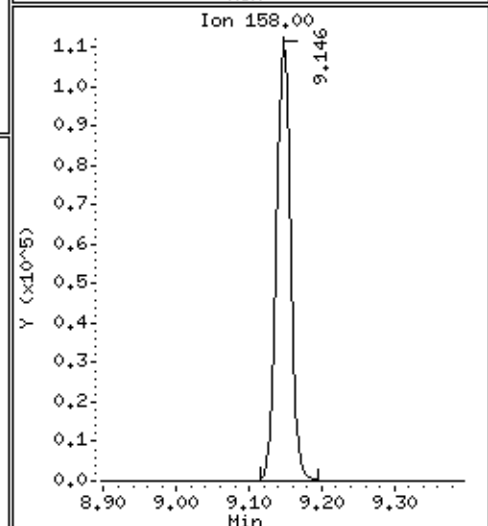
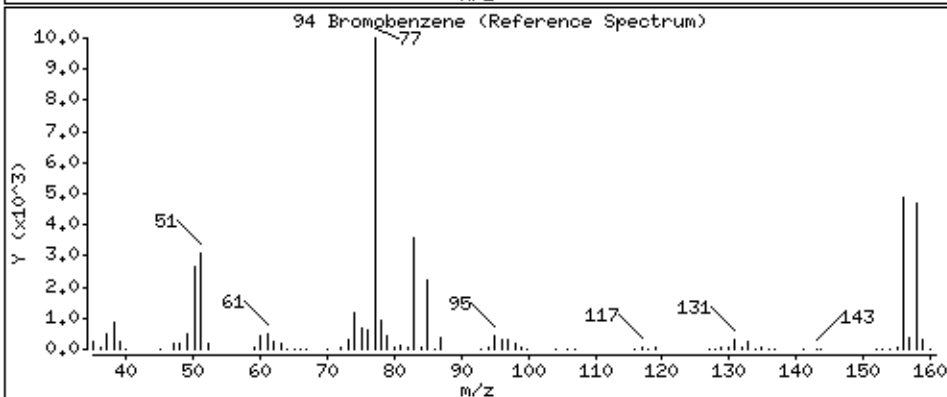
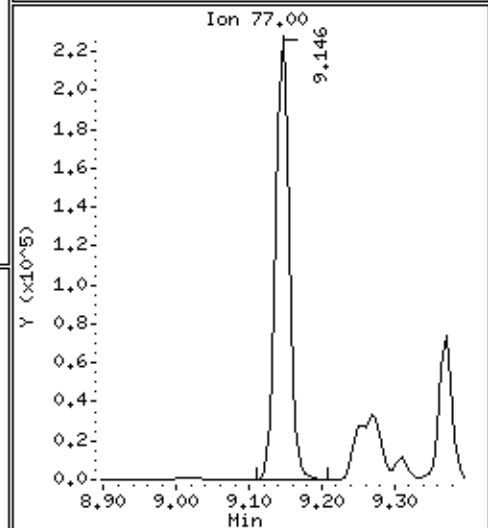
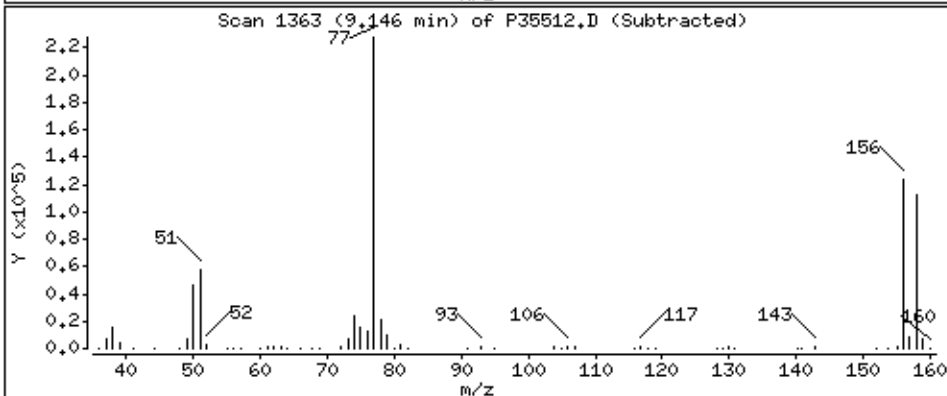
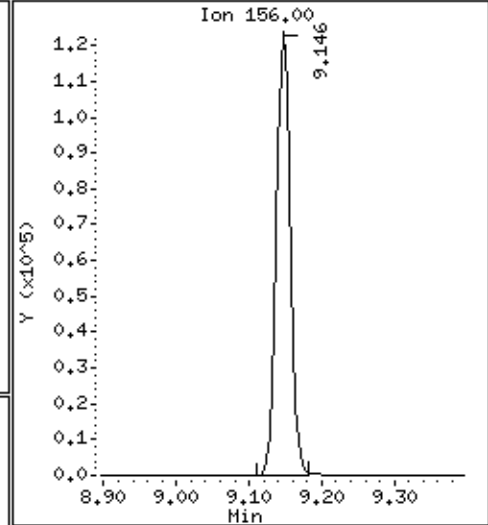
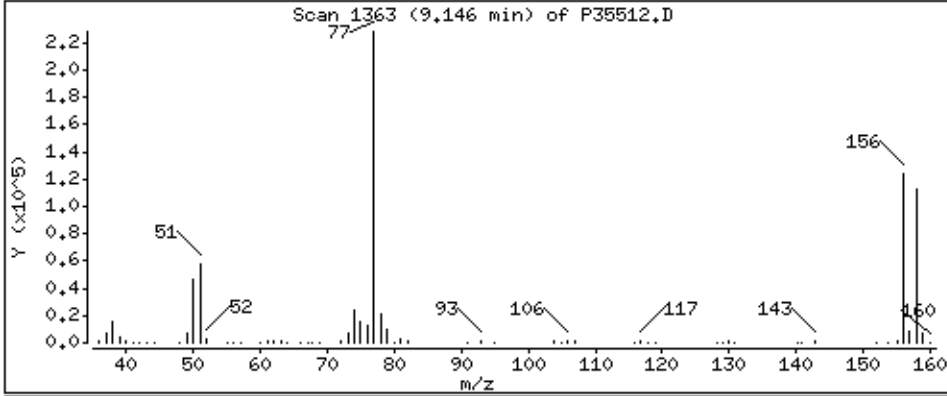
Column phase: RTX-624

Column diameter: 0,18

94 Bromobenzene

Concentration: 46,5 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

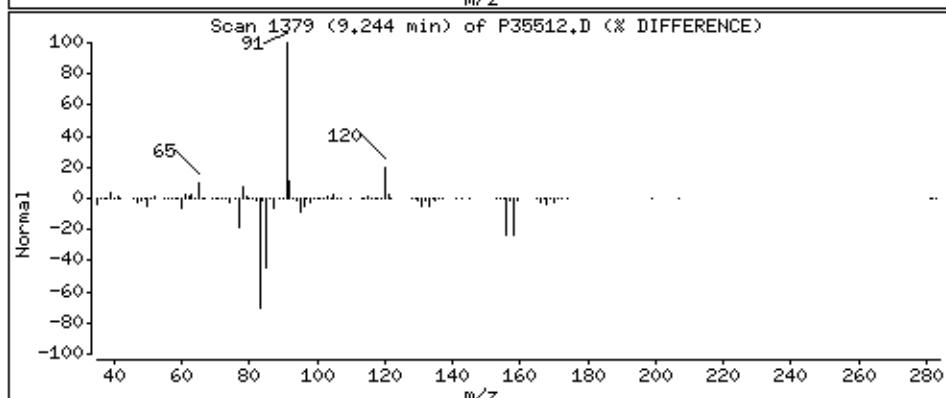
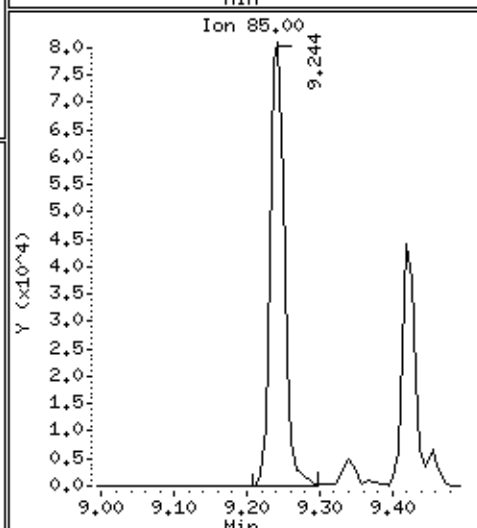
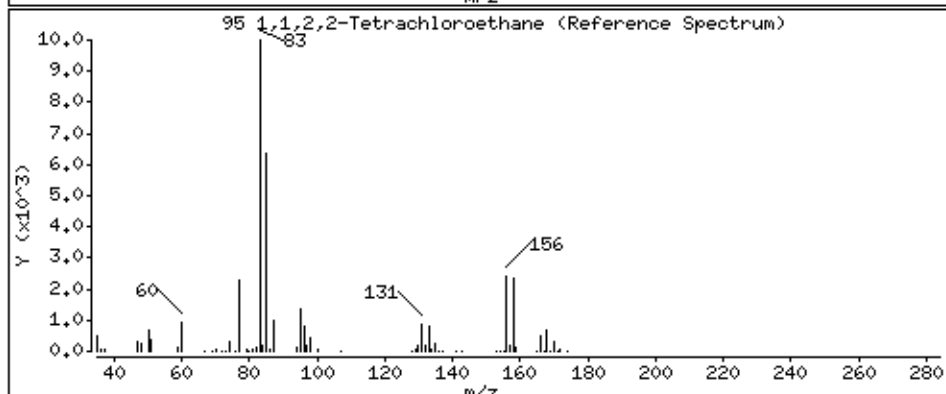
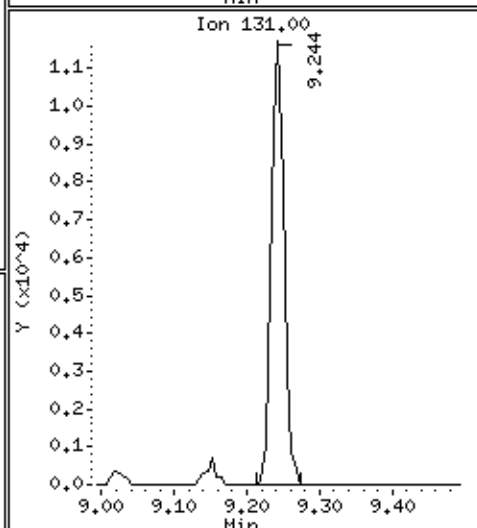
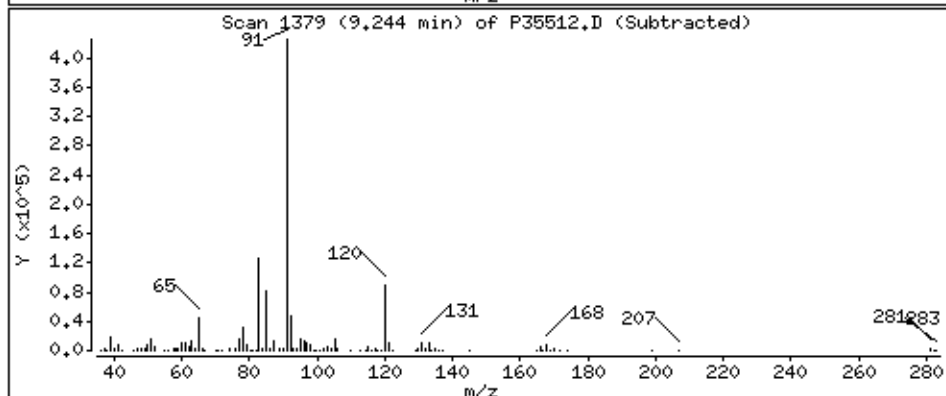
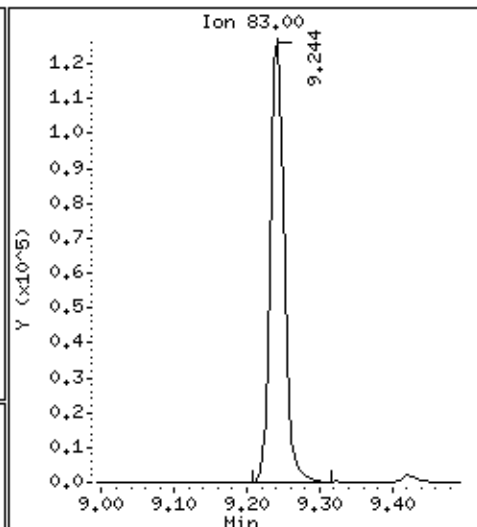
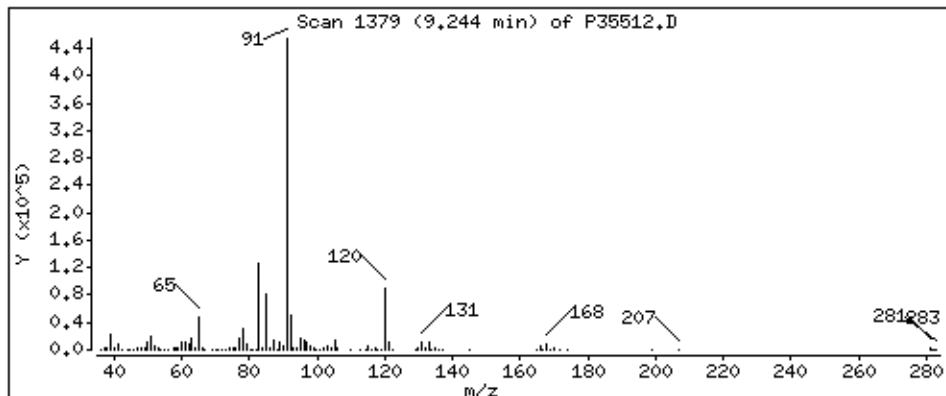
Column phase: RTX-624

Column diameter: 0,18

95 1,1,2,2-Tetrachloroethane

Concentration: 49,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

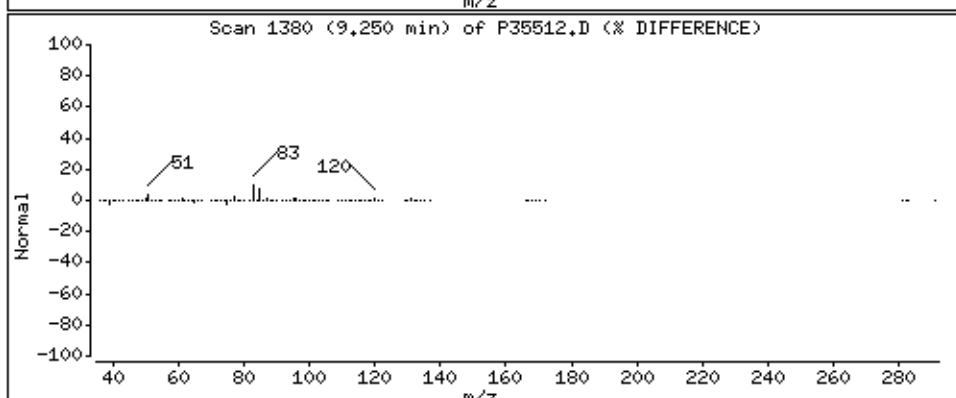
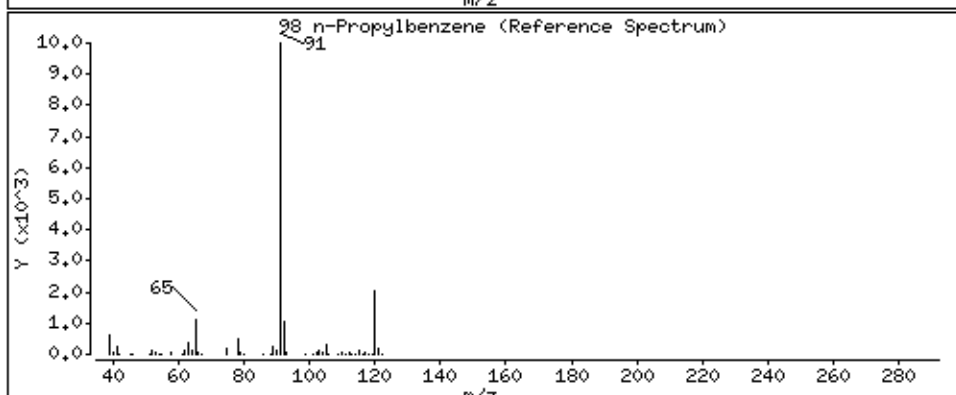
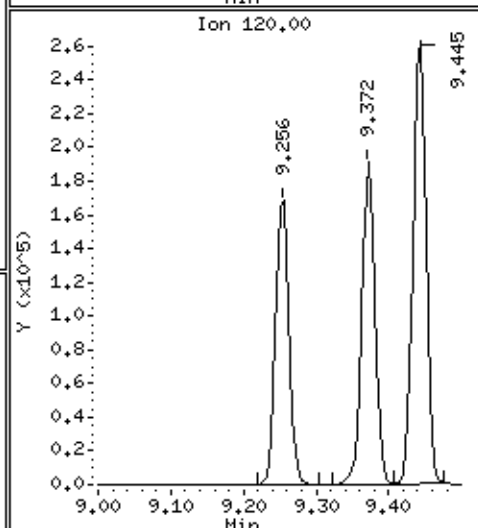
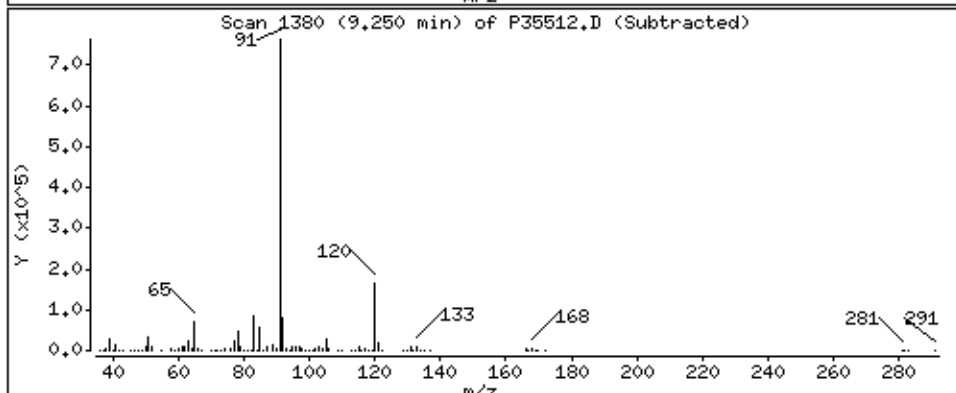
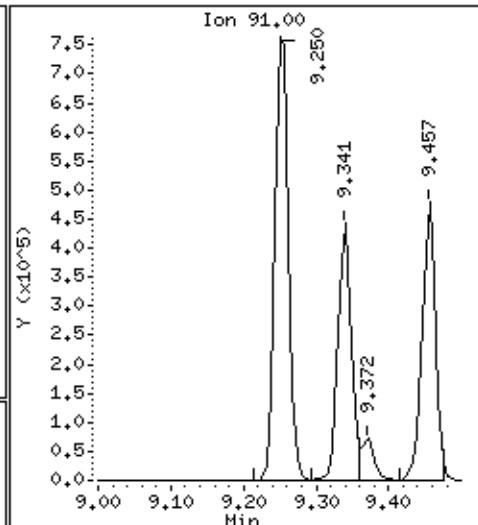
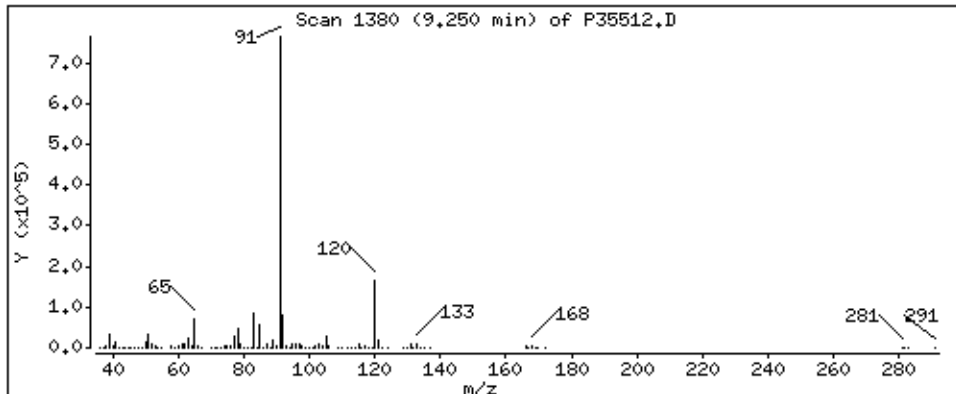
Column phase: RTX-624

Column diameter: 0,18

98 n-Propylbenzene

Concentration: 48,7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

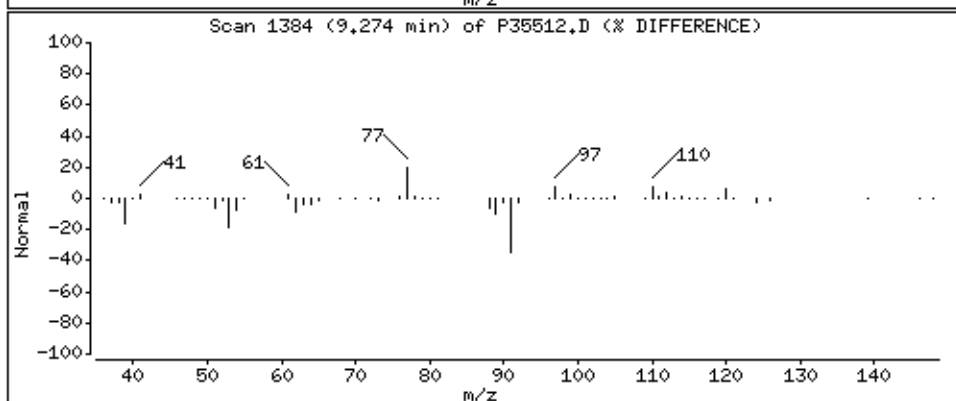
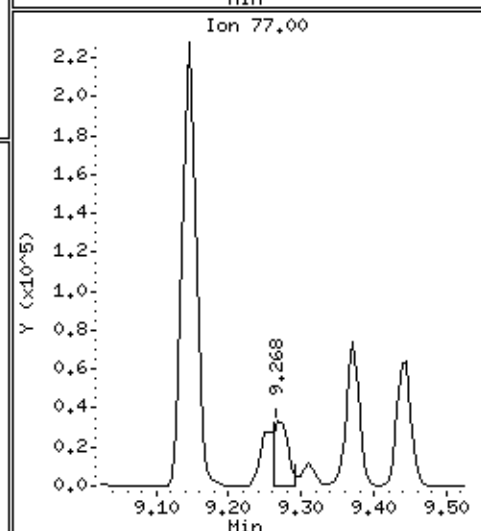
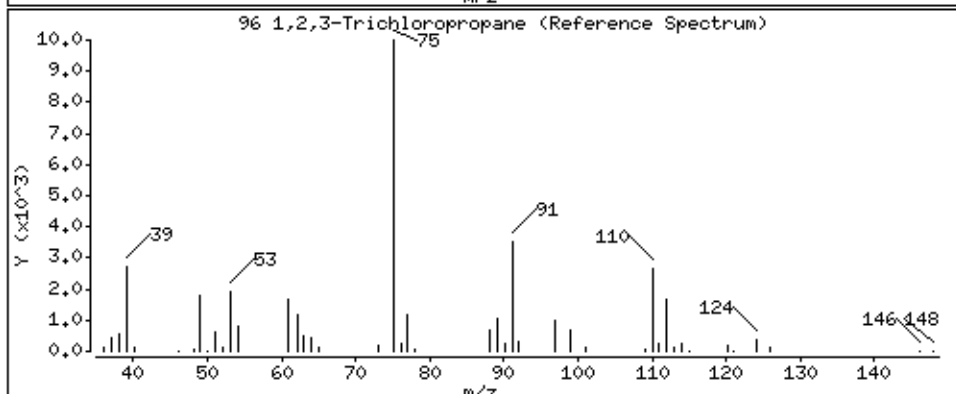
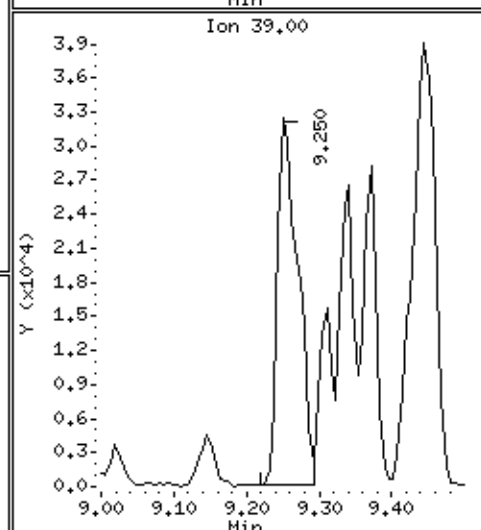
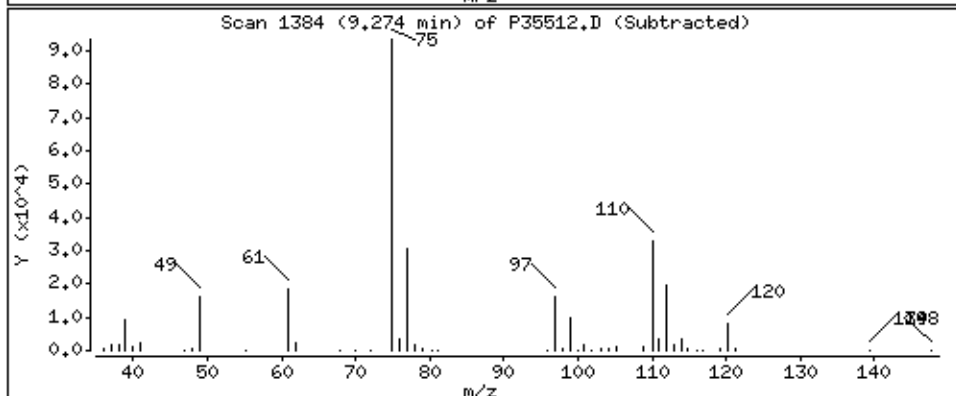
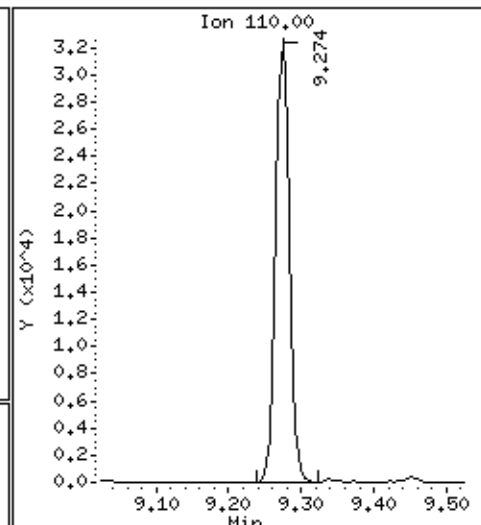
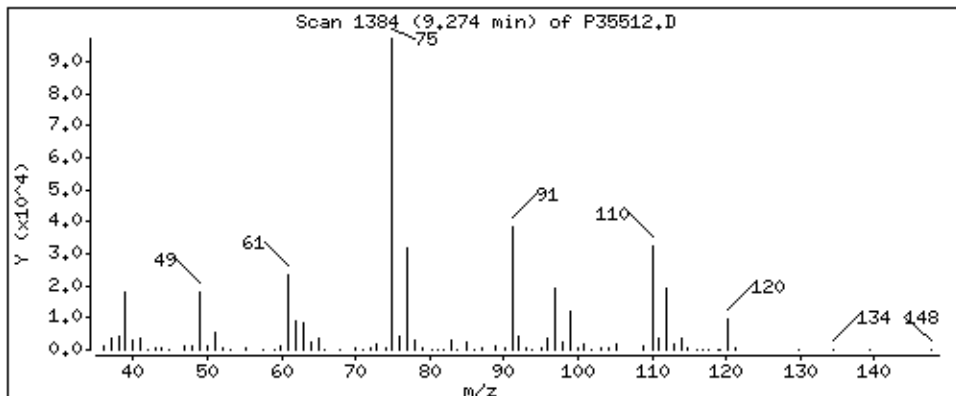
Column phase: RTX-624

Column diameter: 0,18

96 1,2,3-Trichloropropane

Concentration: 44,5 ug/L

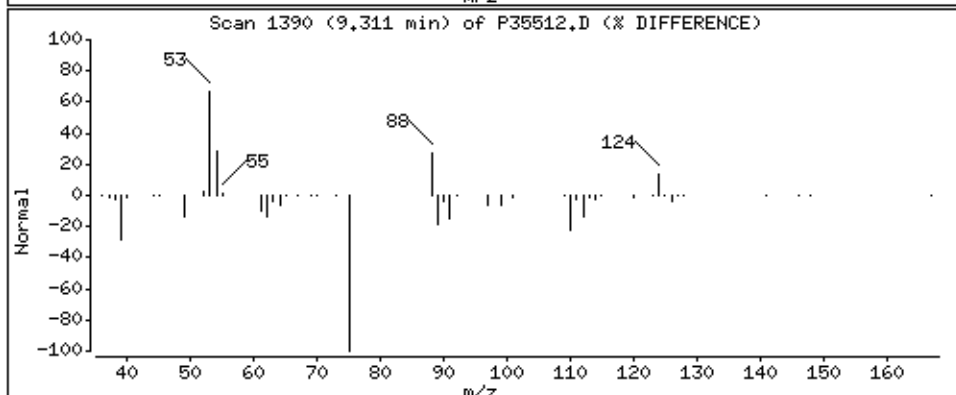
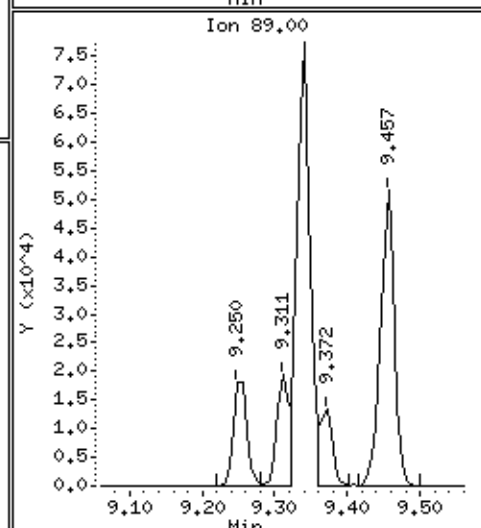
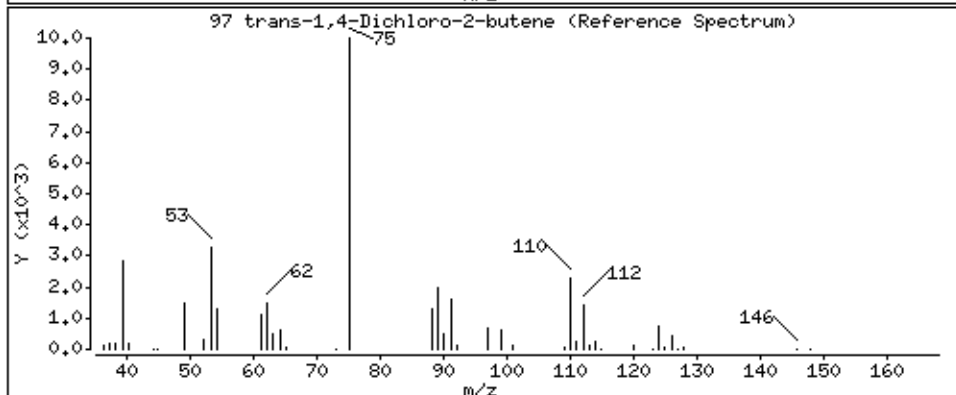
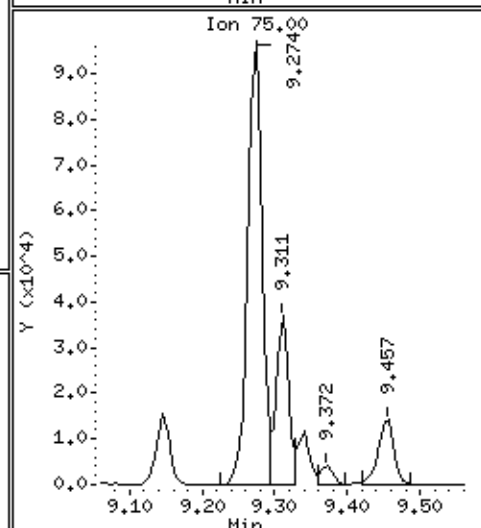
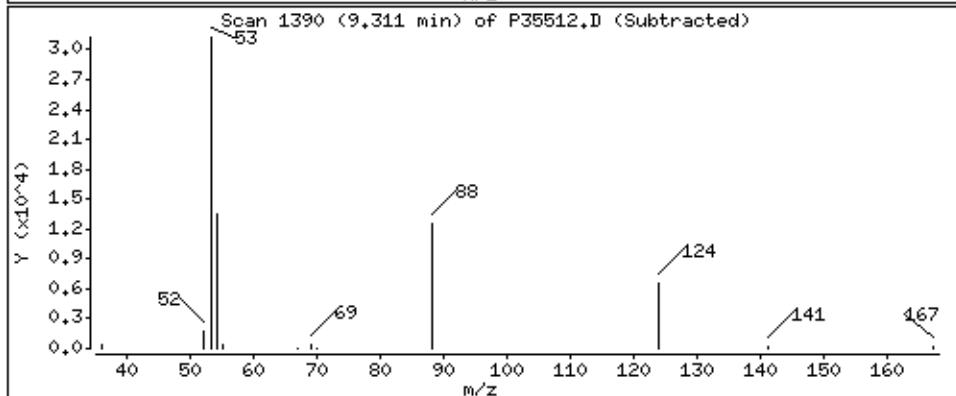
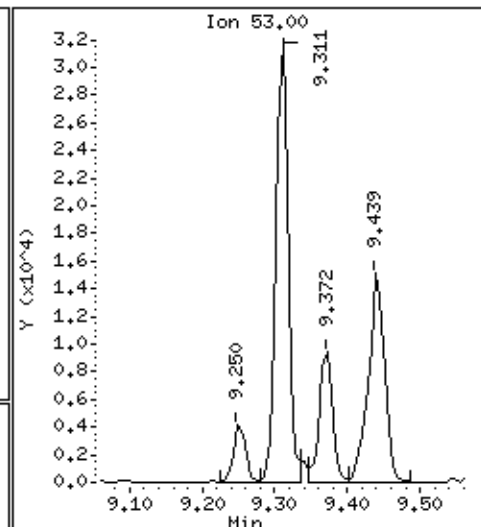
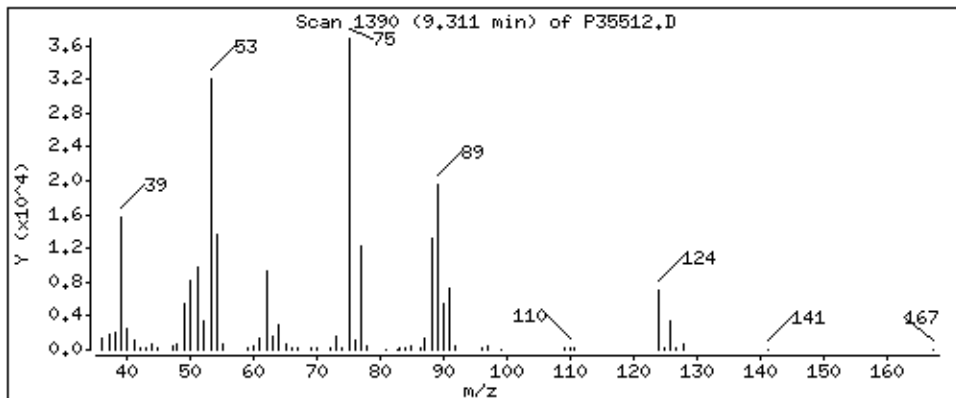
Review Code:



97 trans-1,4-Dichloro-2-butene

Concentration: 53.7 ug/L

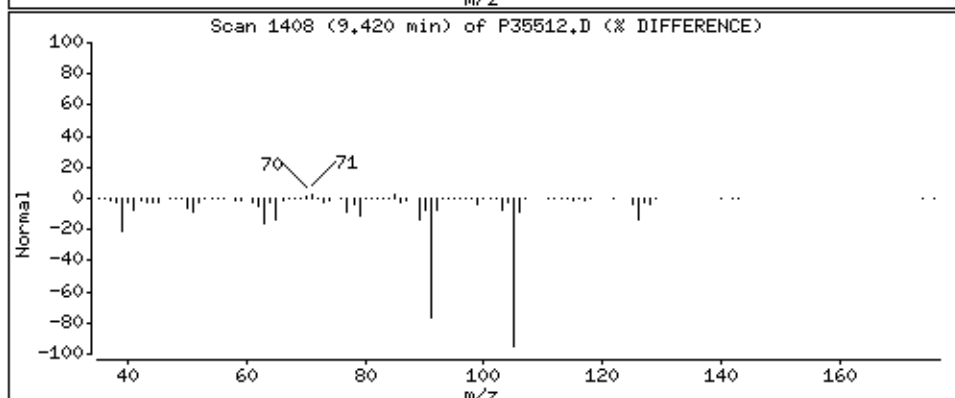
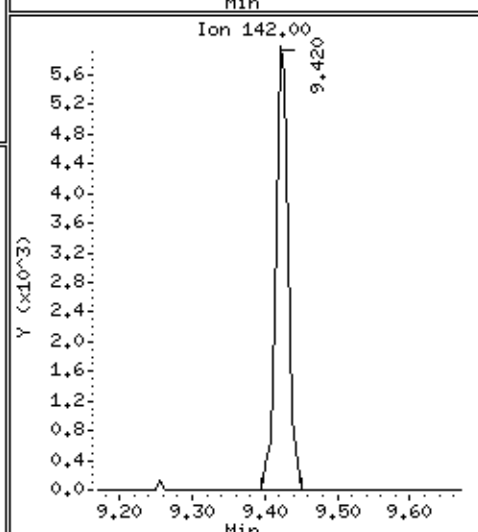
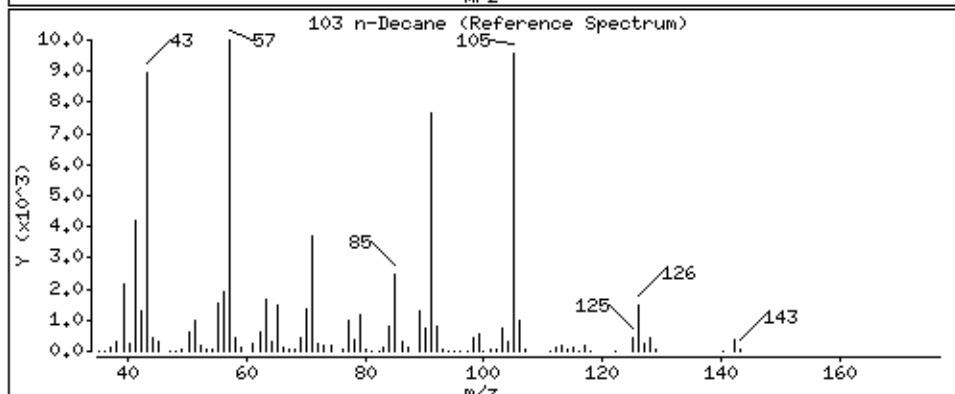
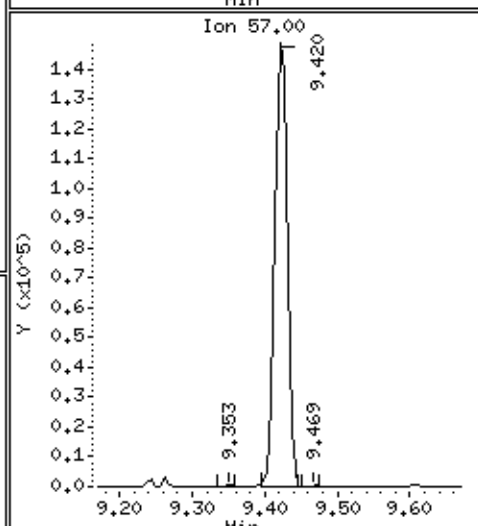
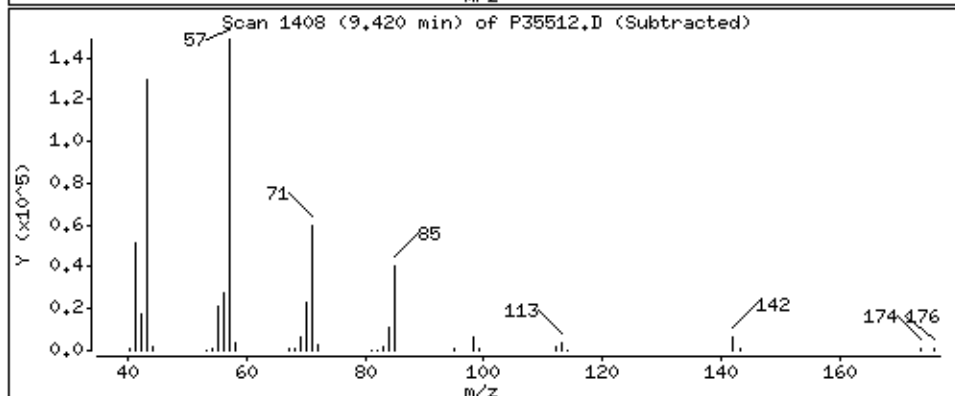
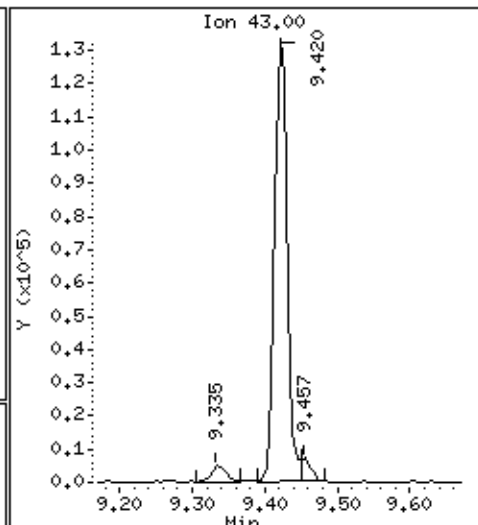
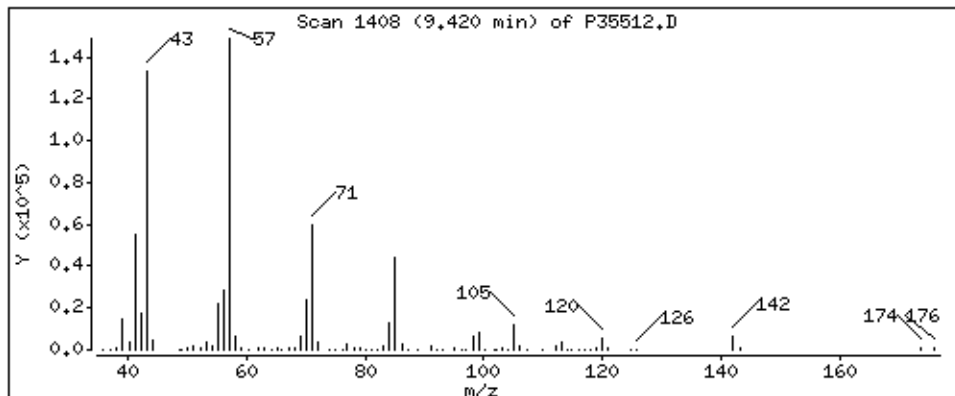
Review Code:



103 n-Decane

Concentration: 55,6 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

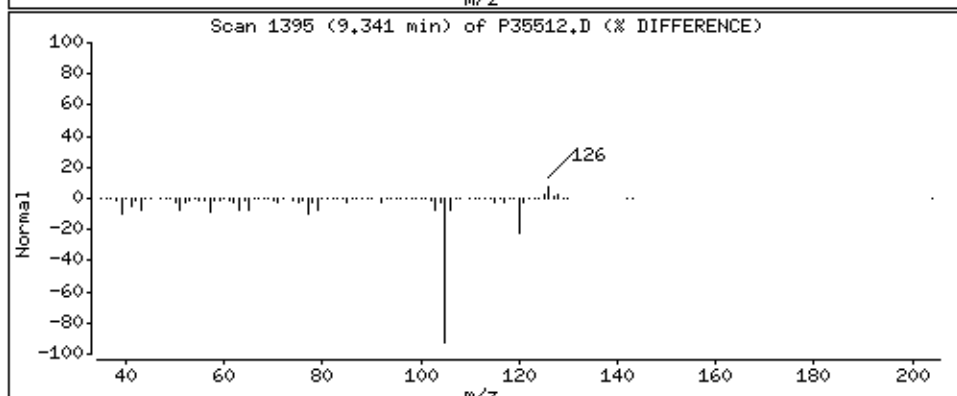
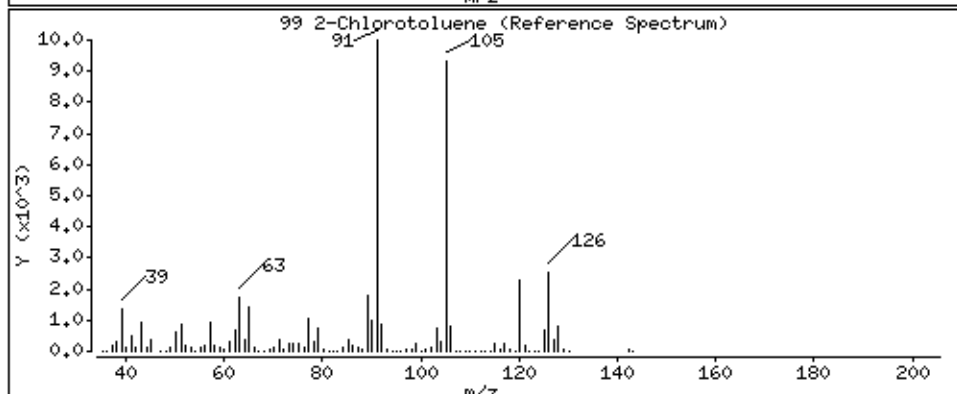
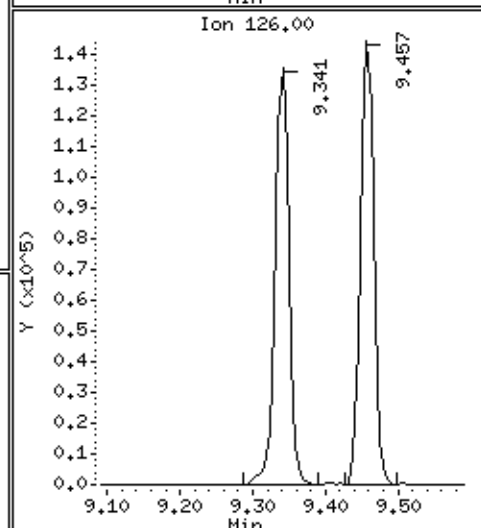
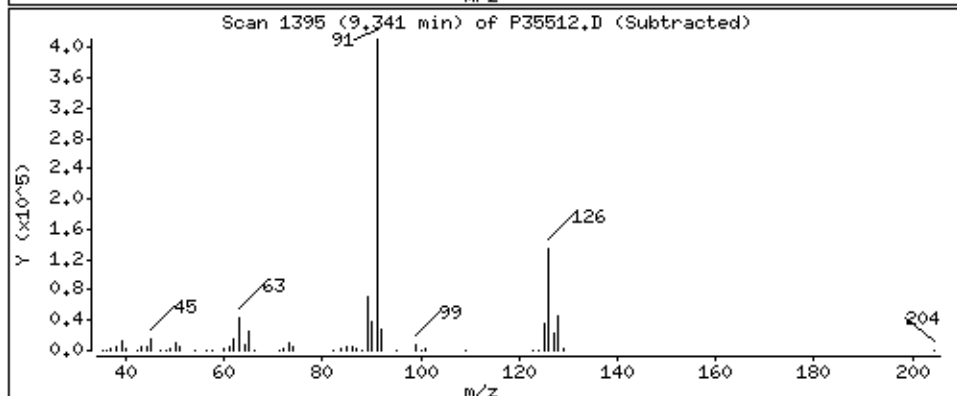
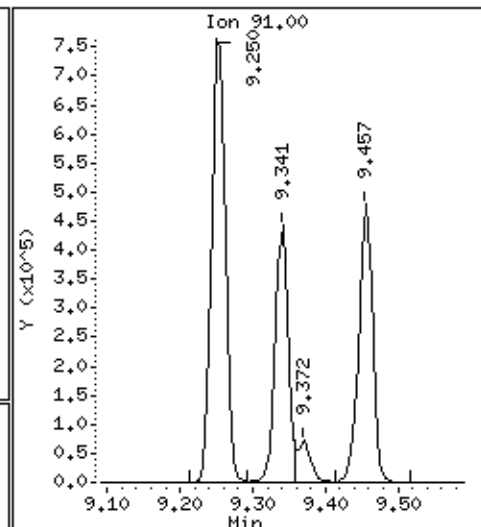
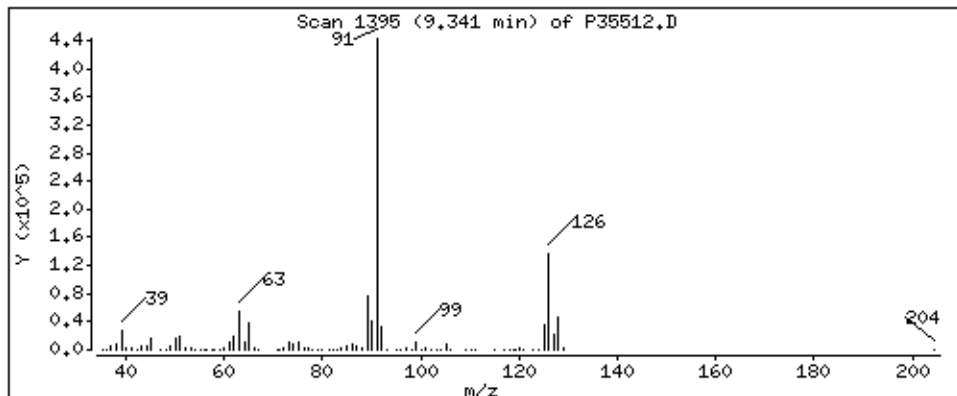
Column phase: RTX-624

Column diameter: 0,18

99 2-Chlorotoluene

Concentration: 46,8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1,25

Purge Volume: 5.0

Operator: KGG

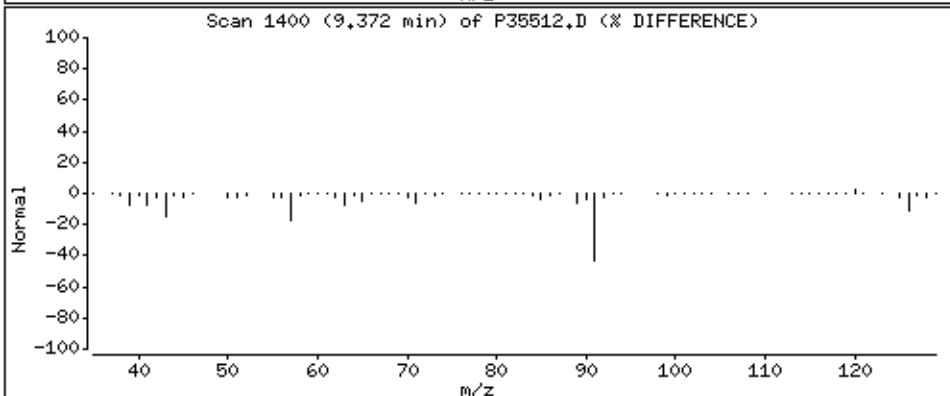
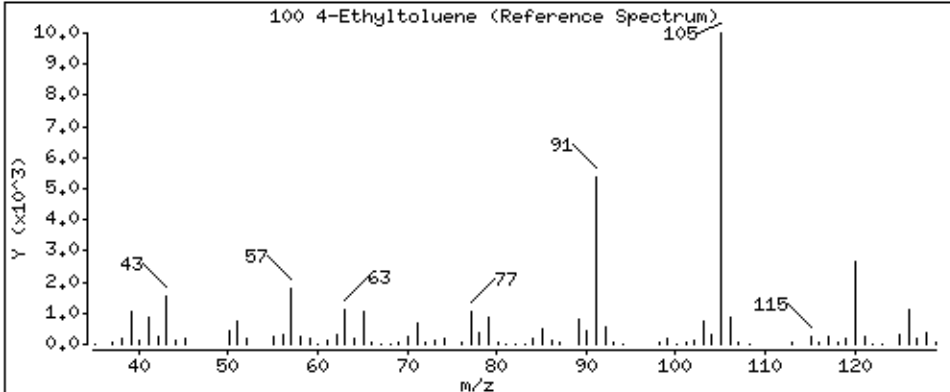
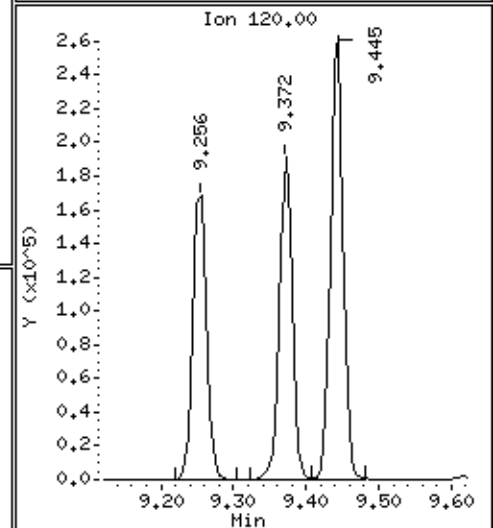
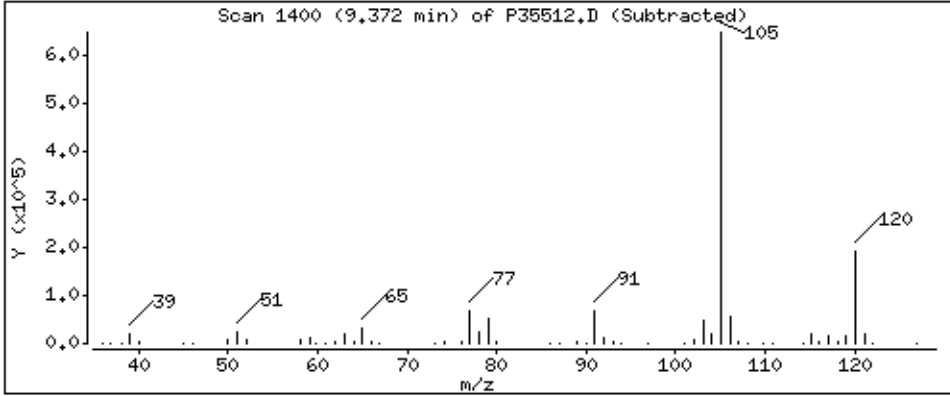
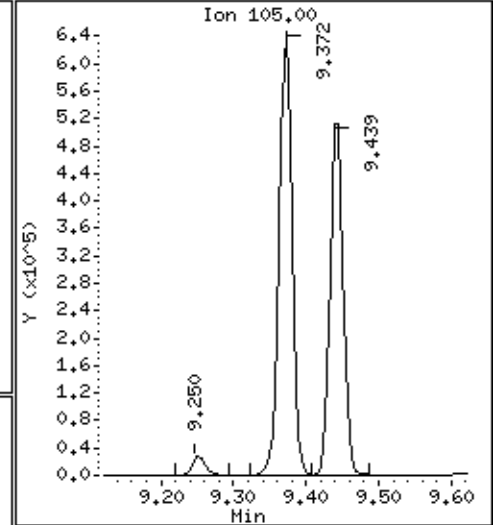
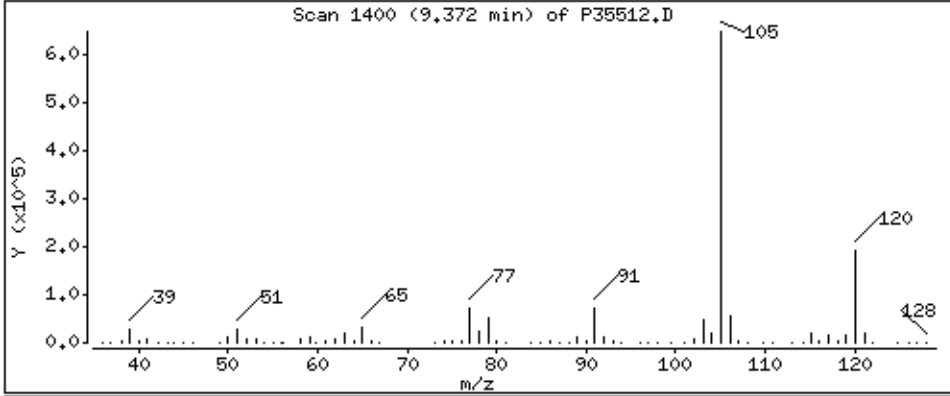
Column phase: RTX-624

Column diameter: 0,18

100 4-Ethyltoluene

Concentration: 47,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

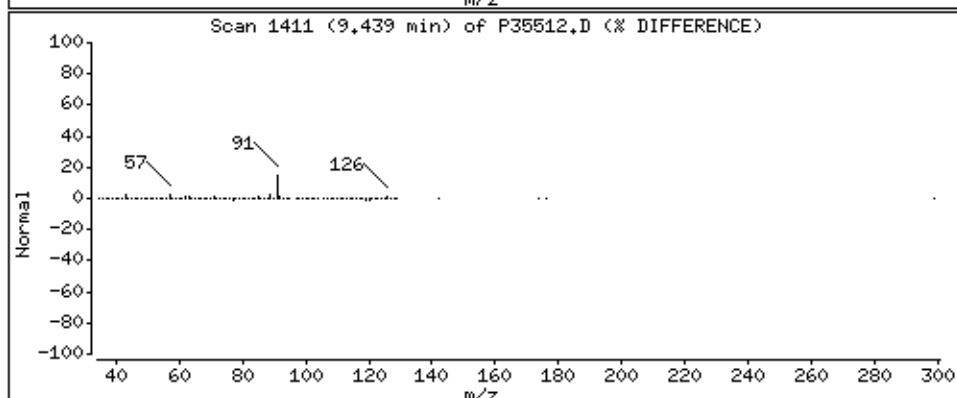
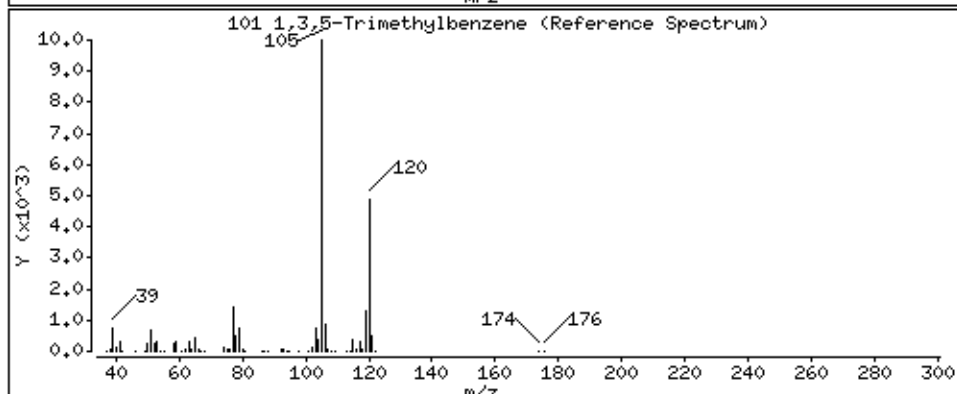
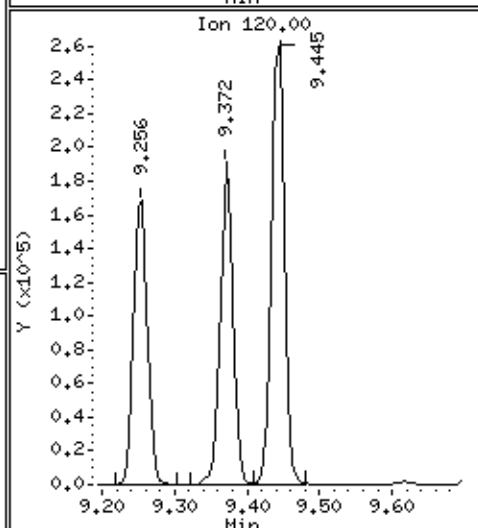
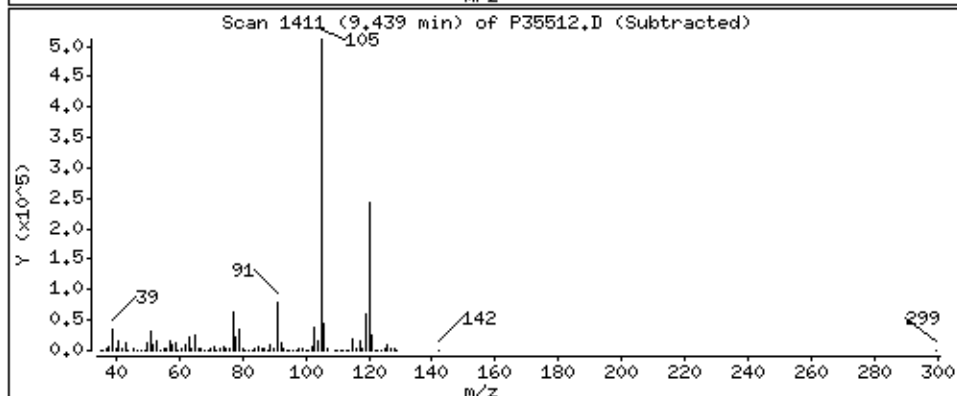
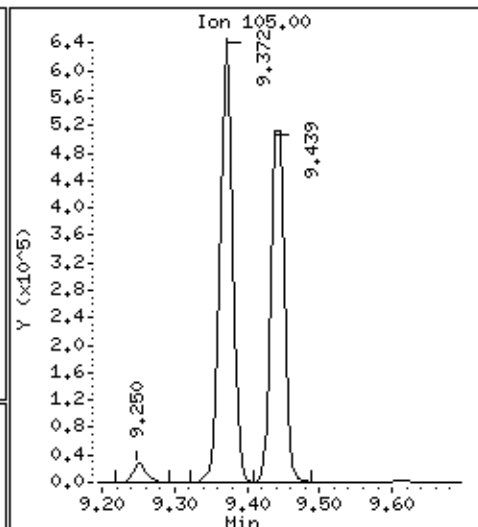
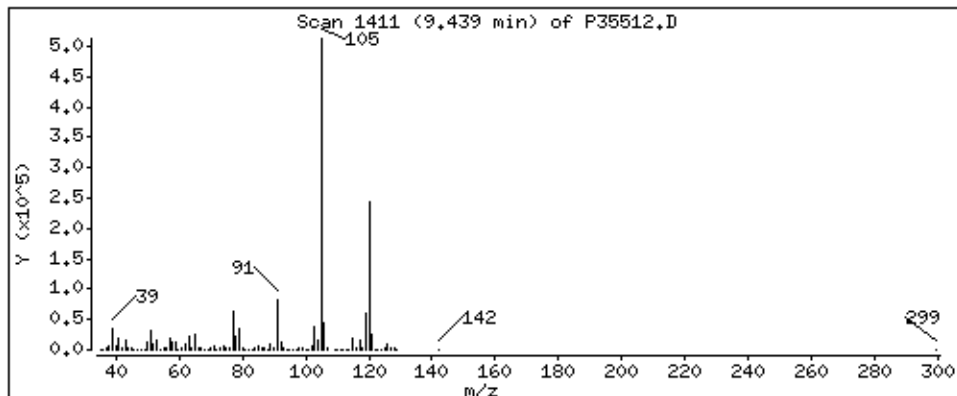
Column phase: RTX-624

Column diameter: 0,18

101 1,3,5-Trimethylbenzene

Concentration: 50,4 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

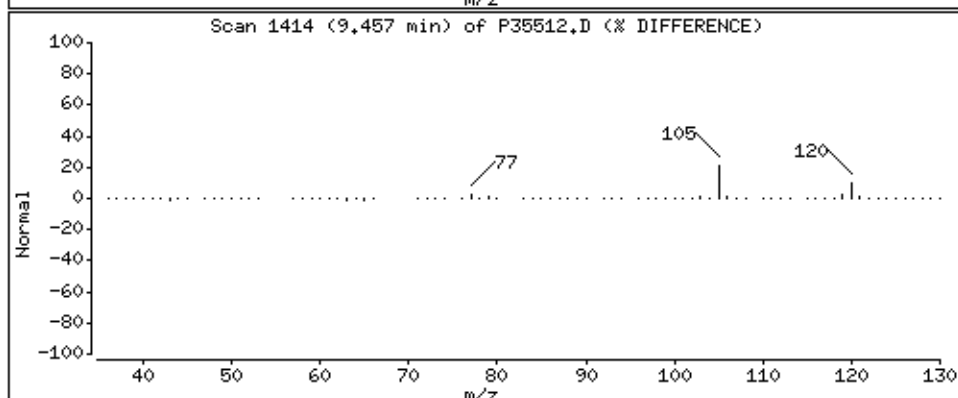
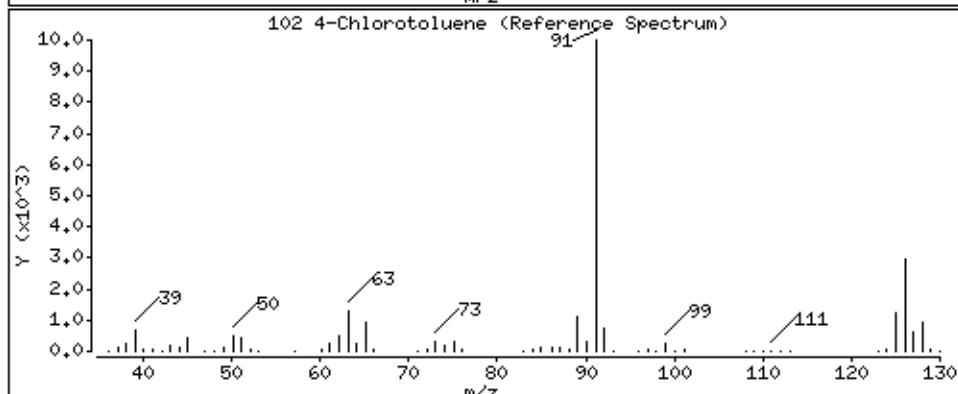
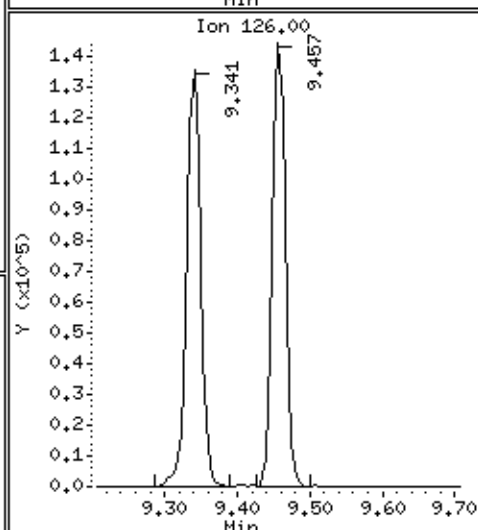
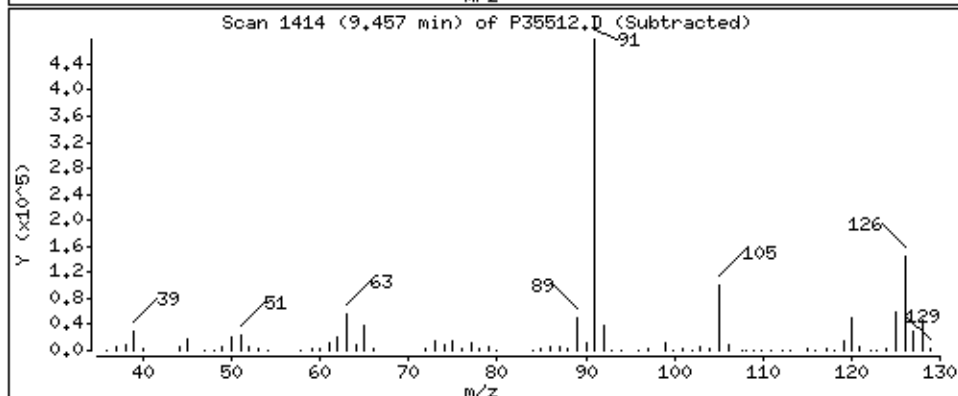
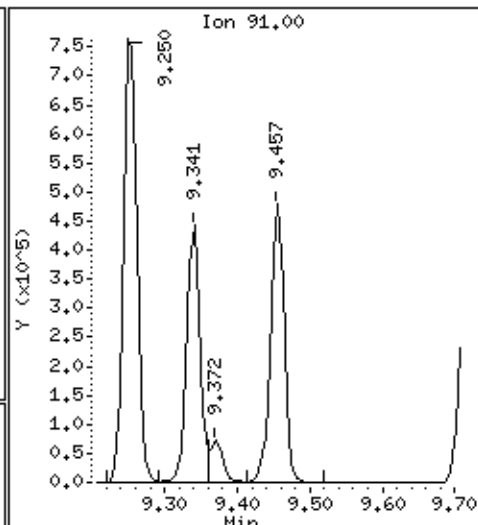
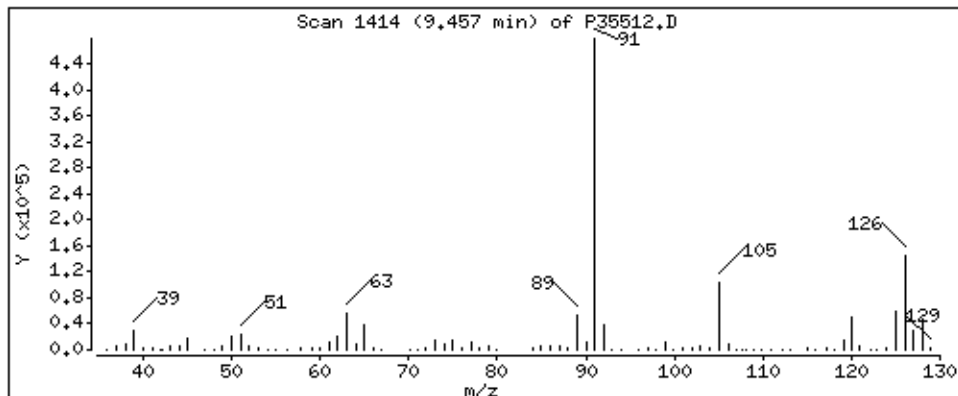
Column phase: RTX-624

Column diameter: 0.18

102 4-Chlorotoluene

Concentration: 47.1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

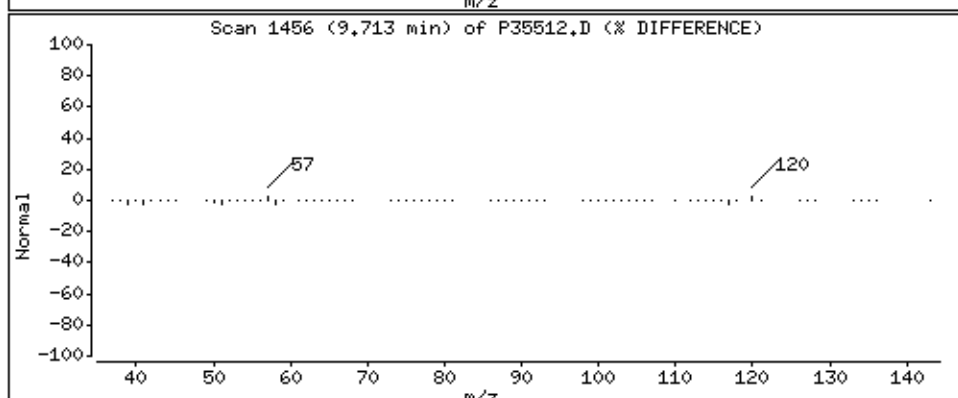
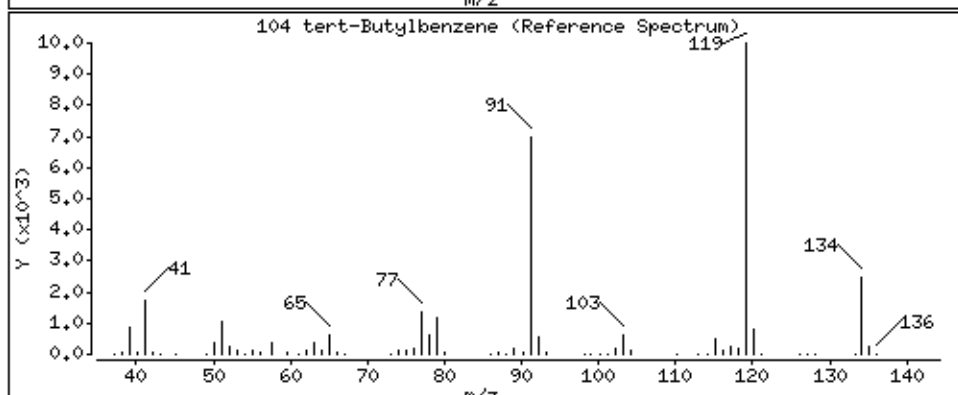
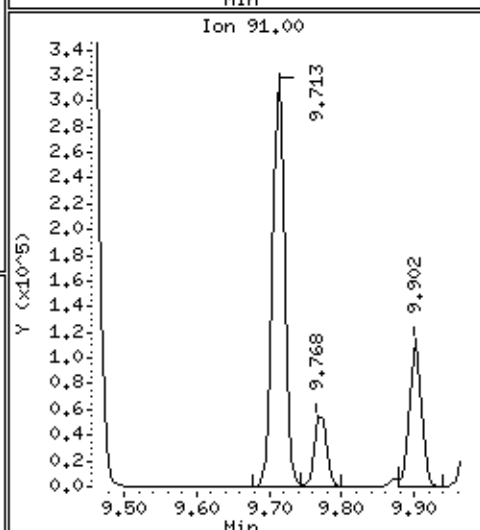
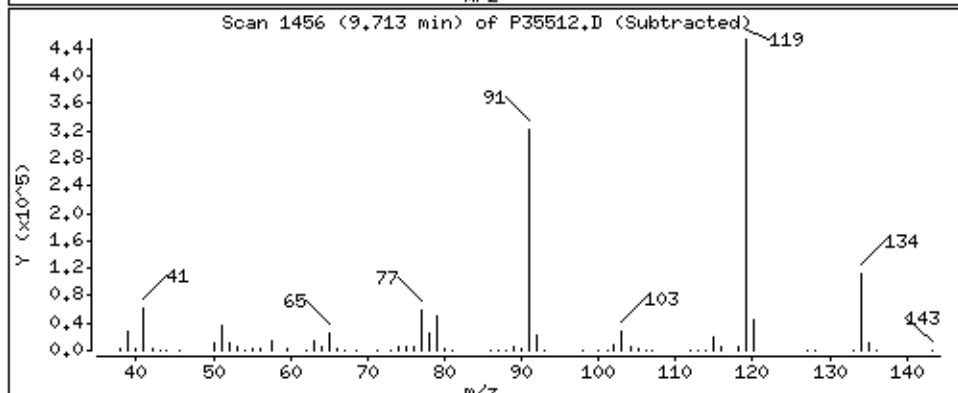
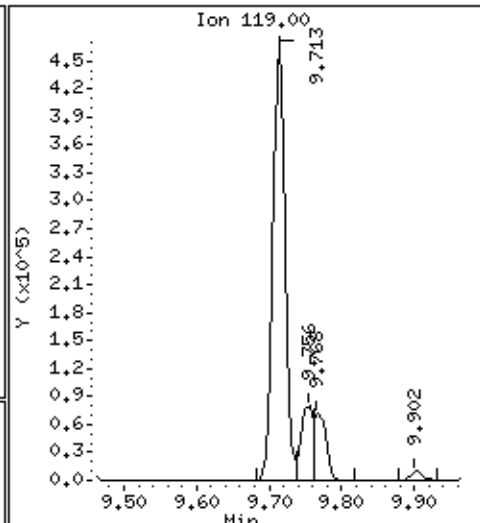
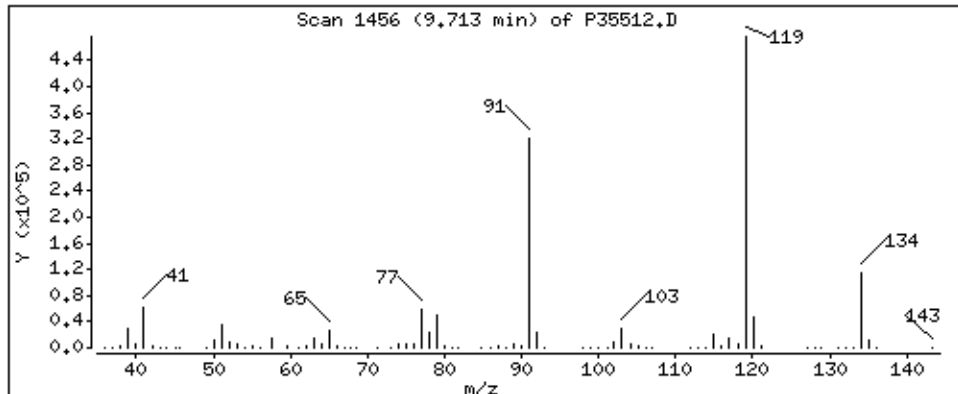
Column phase: RTX-624

Column diameter: 0.18

104 tert-Butylbenzene

Concentration: 49.1 ug/L

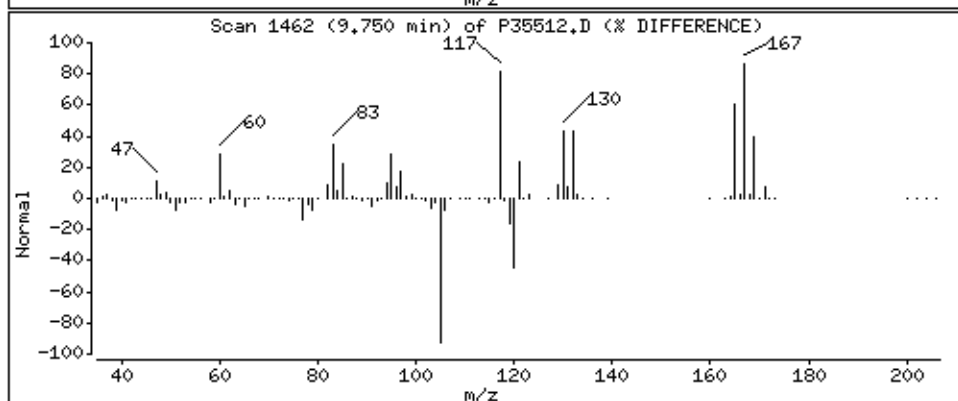
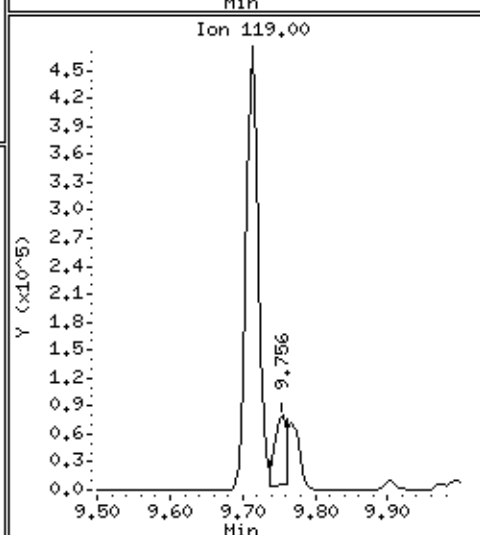
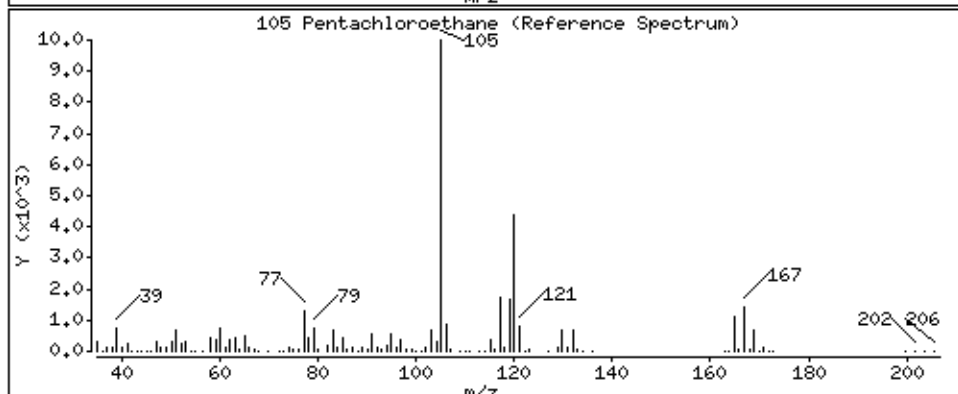
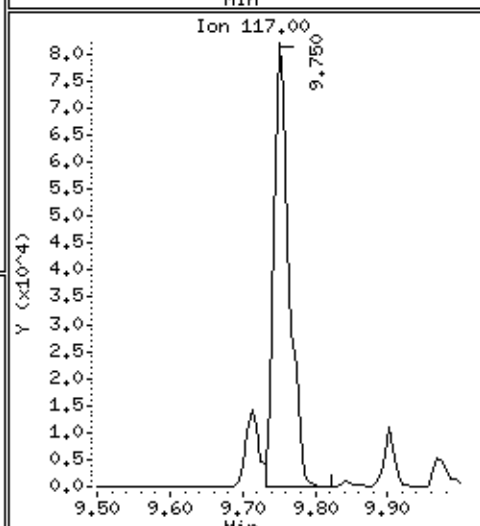
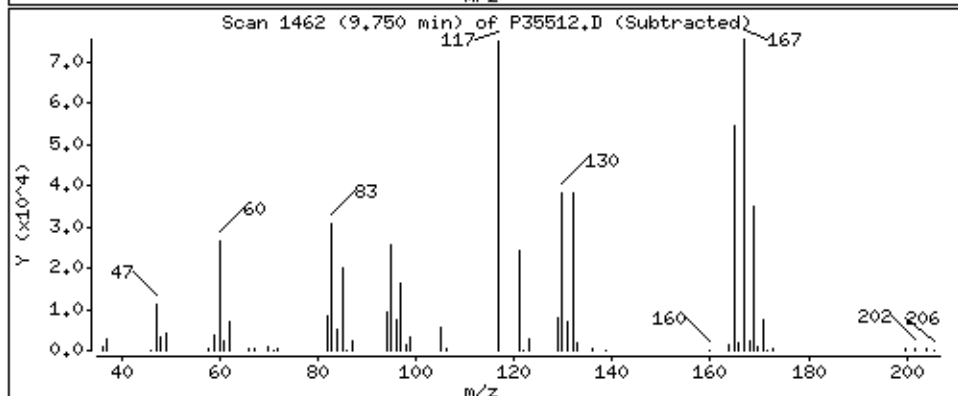
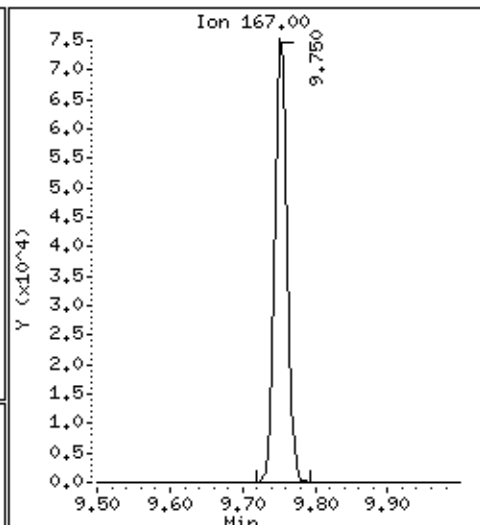
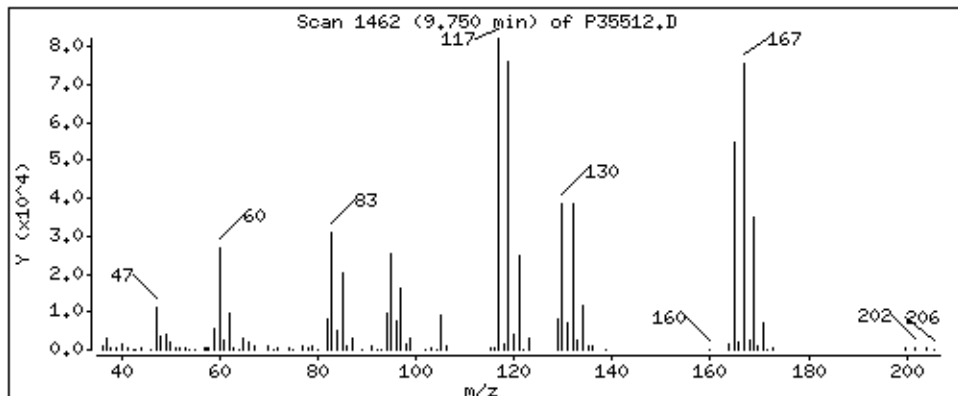
Review Code:



105 Pentachloroethane

Concentration: 47.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

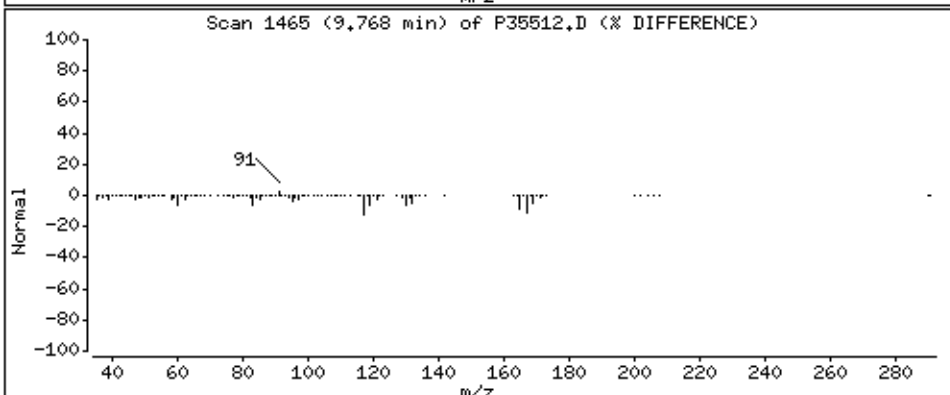
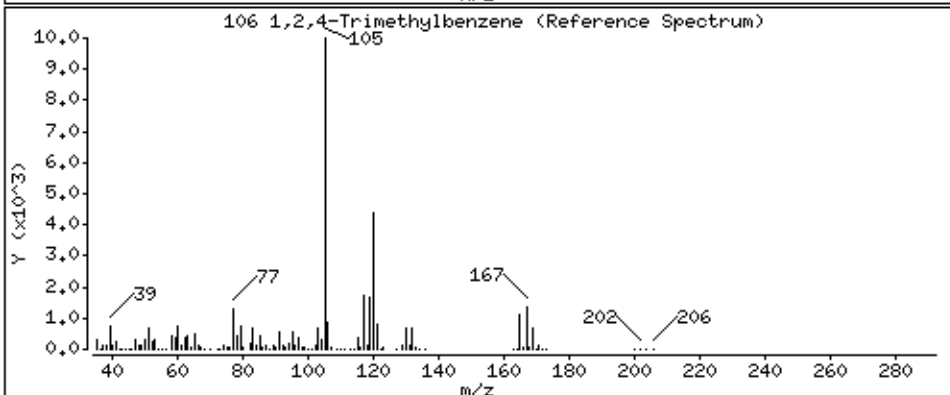
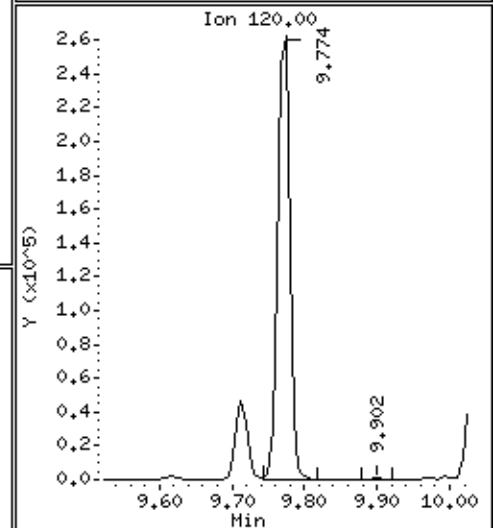
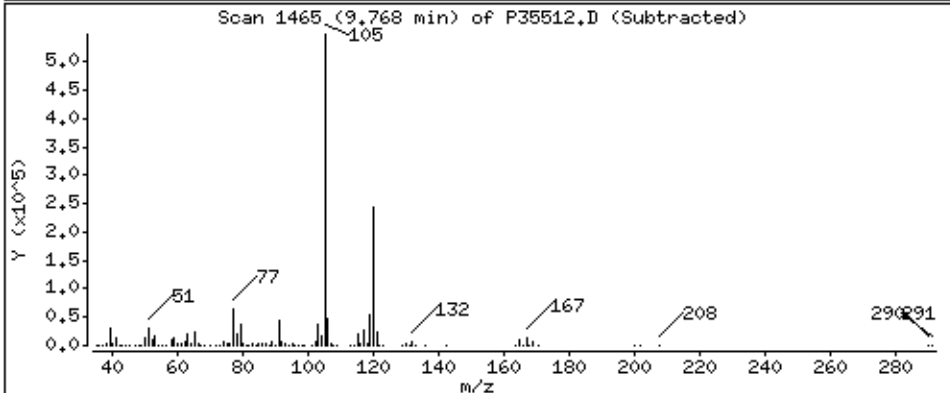
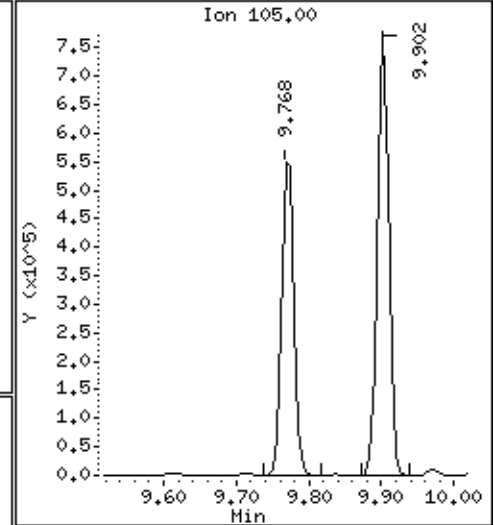
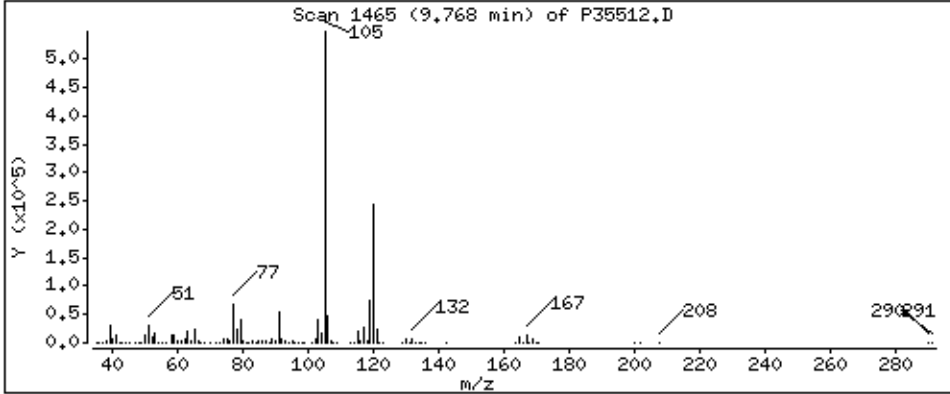
Column phase: RTX-624

Column diameter: 0,18

106 1,2,4-Trimethylbenzene

Concentration: 49,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

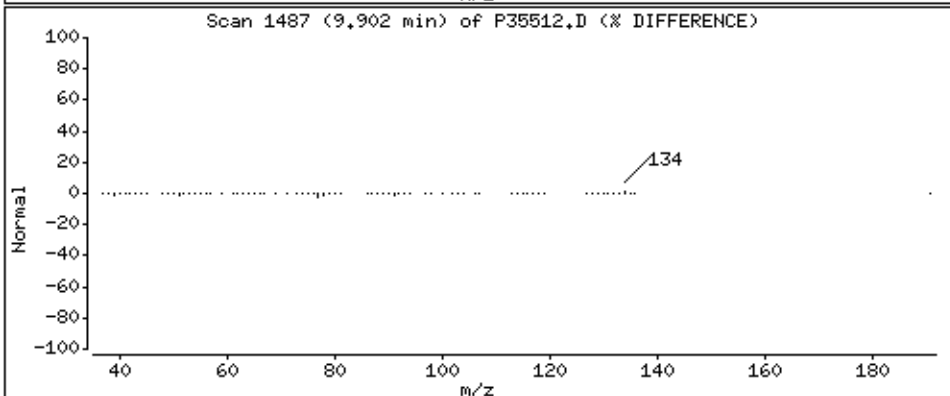
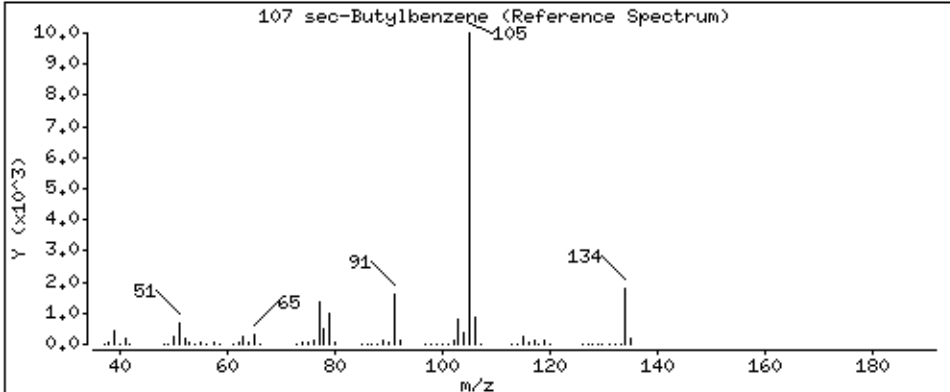
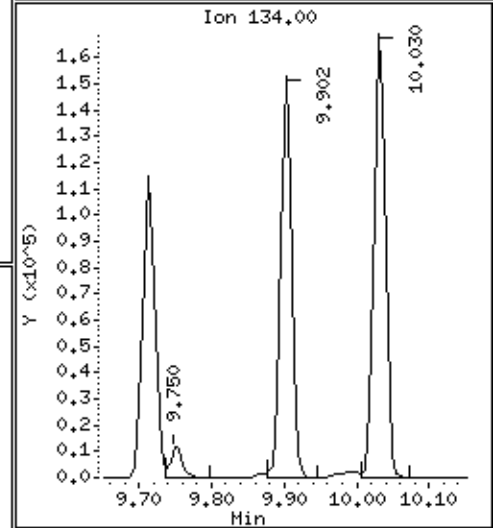
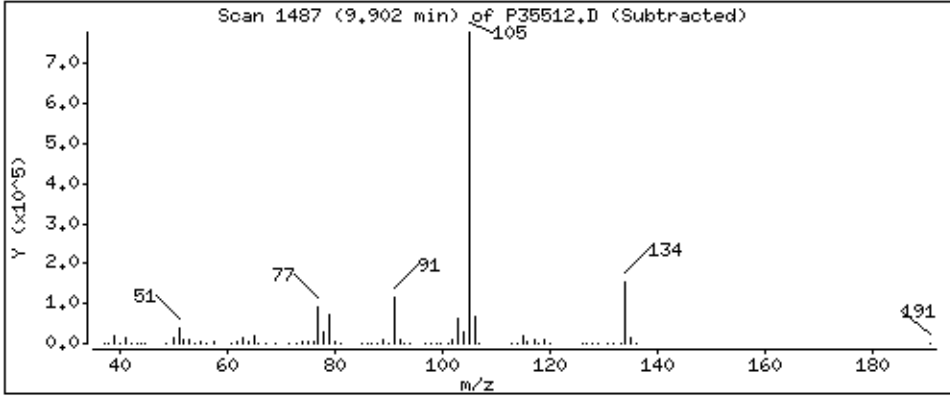
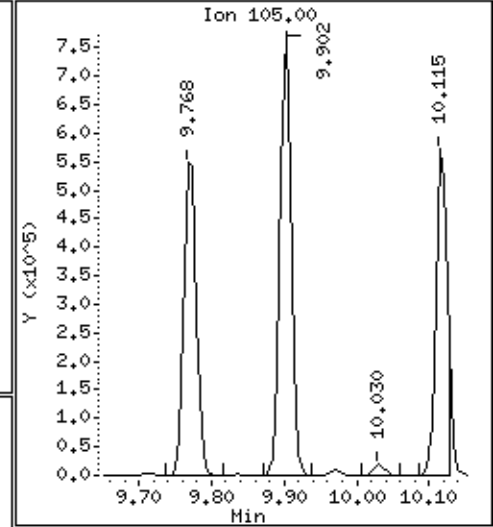
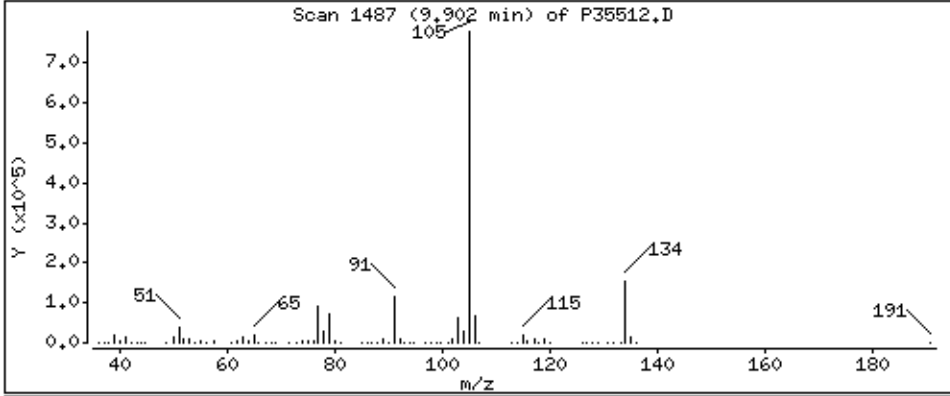
Column phase: RTX-624

Column diameter: 0,18

107 sec-Butylbenzene

Concentration: 48,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

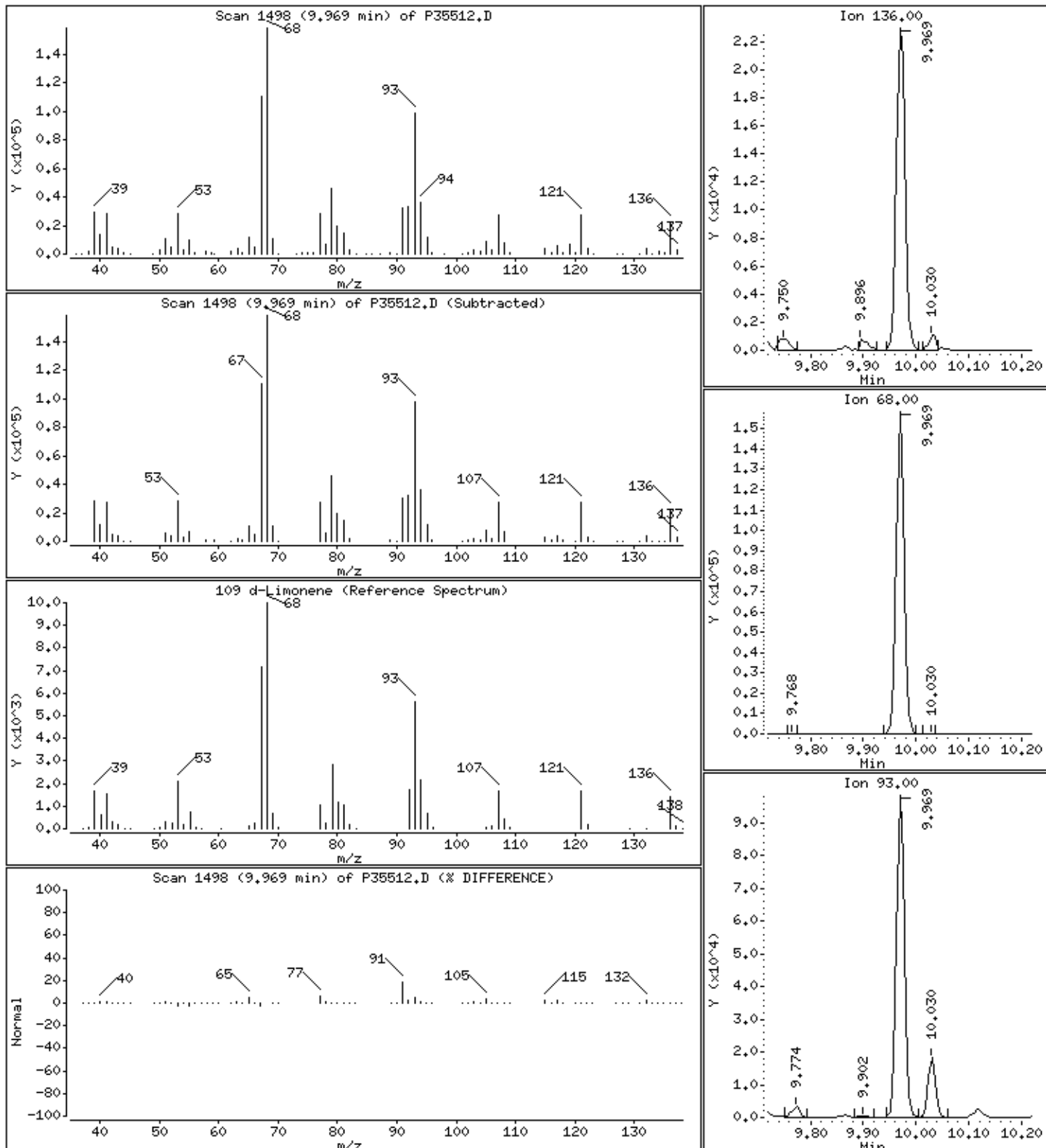
Column phase: RTX-624

Column diameter: 0.18

109 d-Limonene

Concentration: 44.4 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

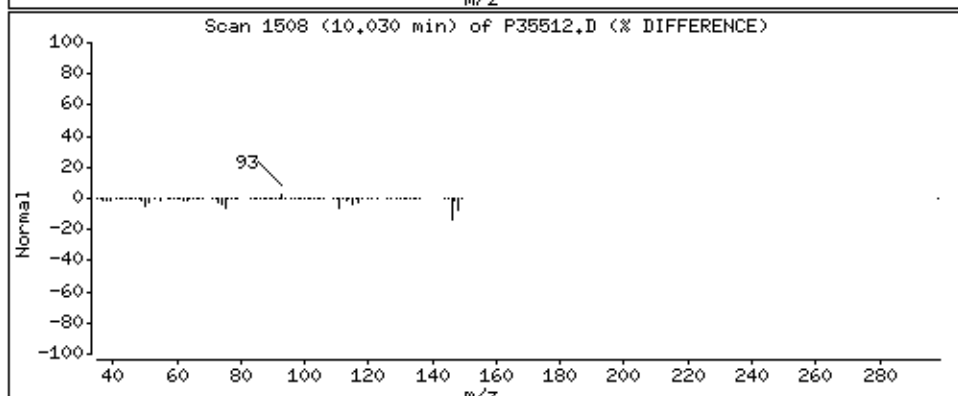
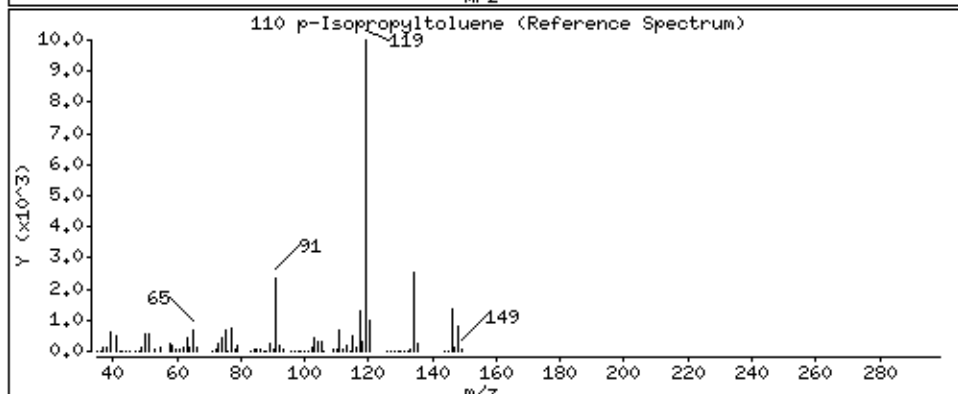
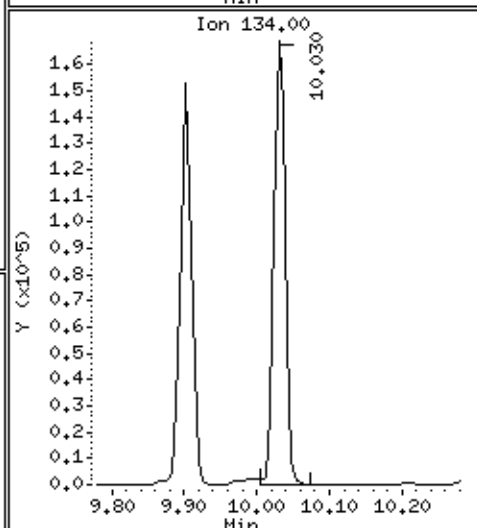
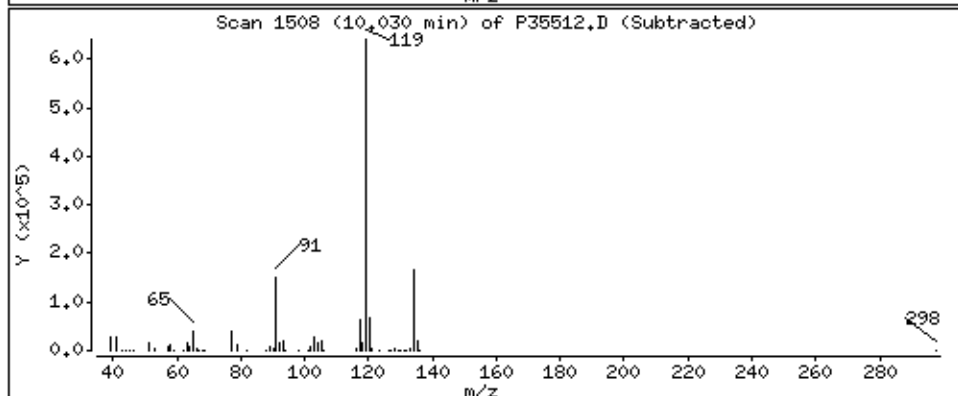
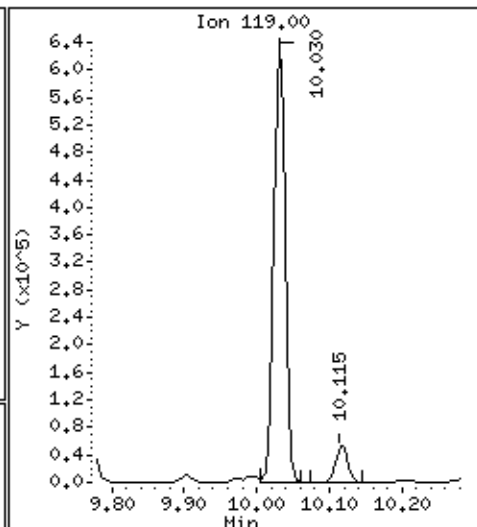
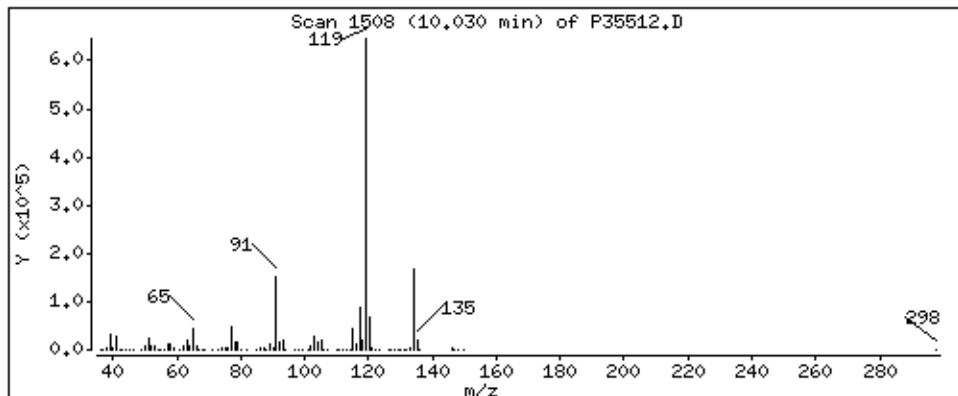
Column phase: RTX-624

Column diameter: 0,18

110 p-Isopropyltoluene

Concentration: 50,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

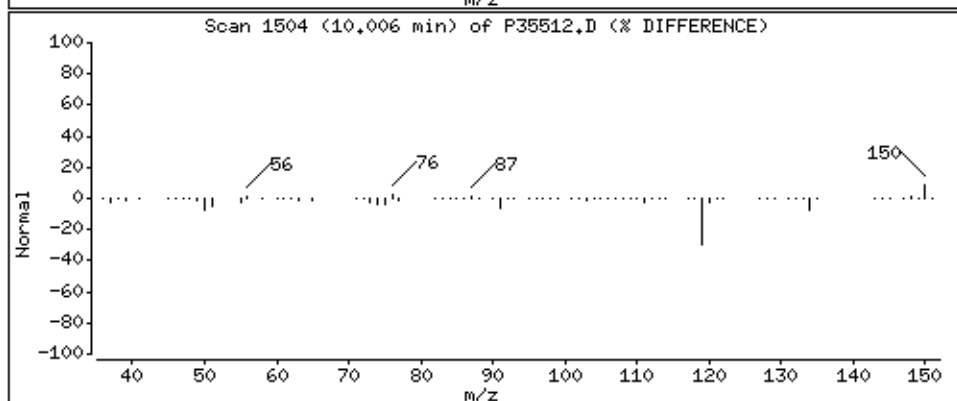
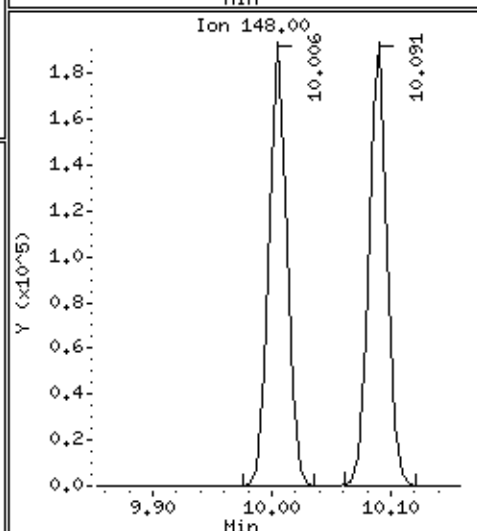
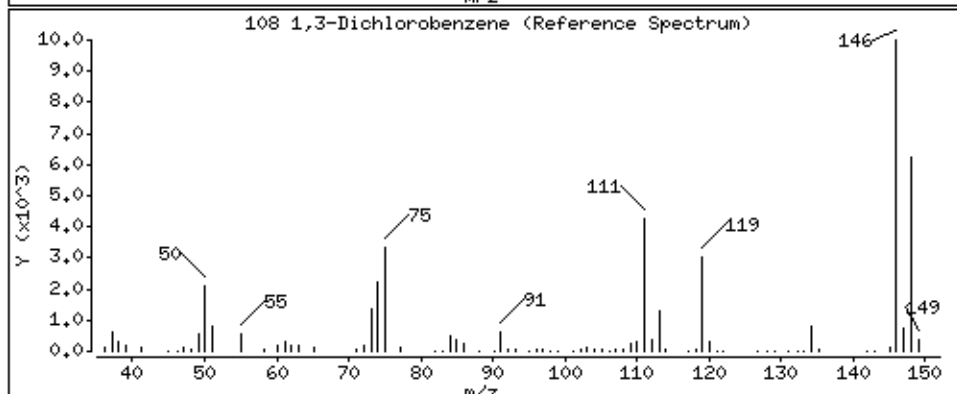
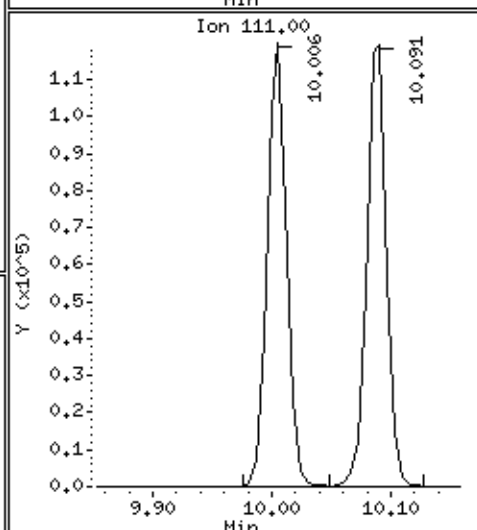
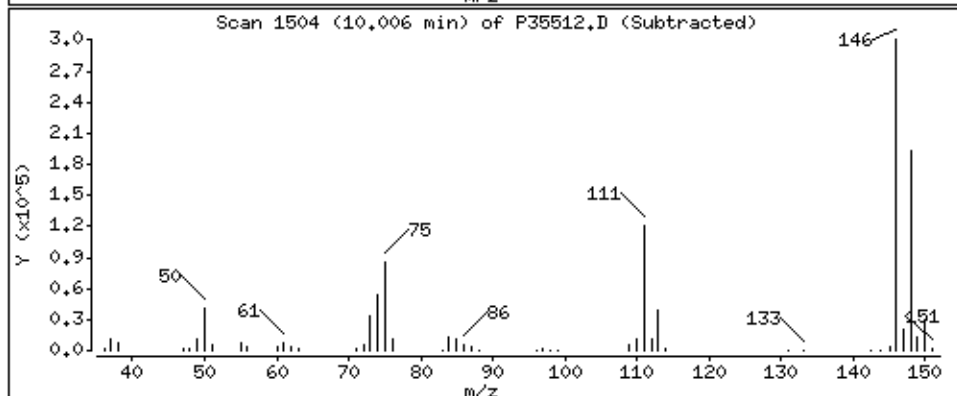
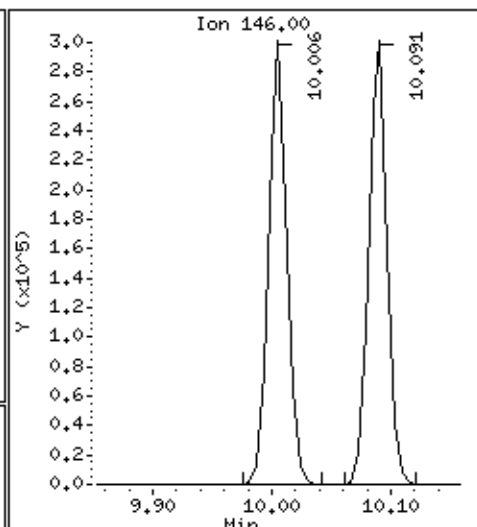
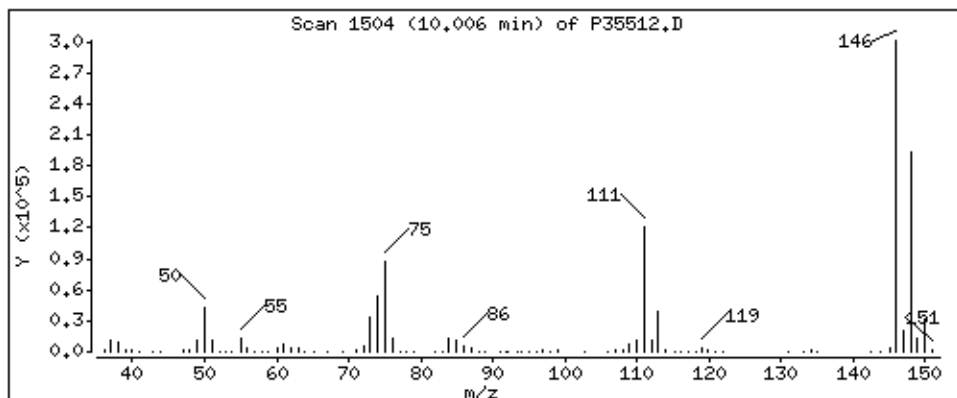
Column phase: RTX-624

Column diameter: 0.18

108 1,3-Dichlorobenzene

Concentration: 47.1 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

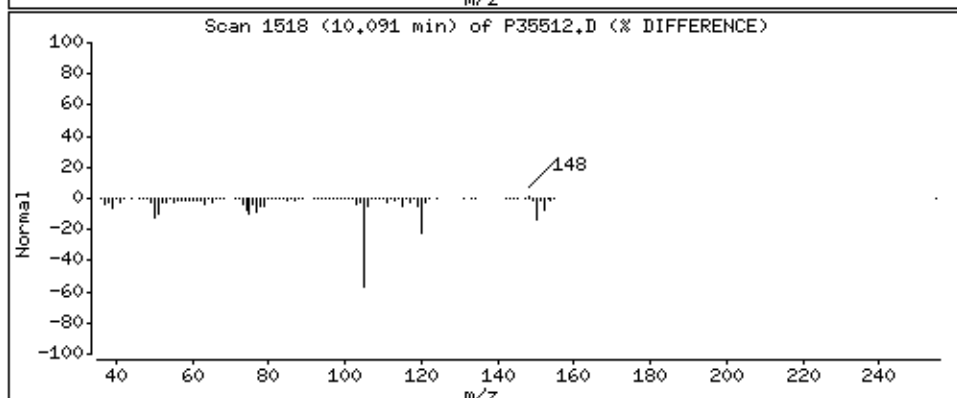
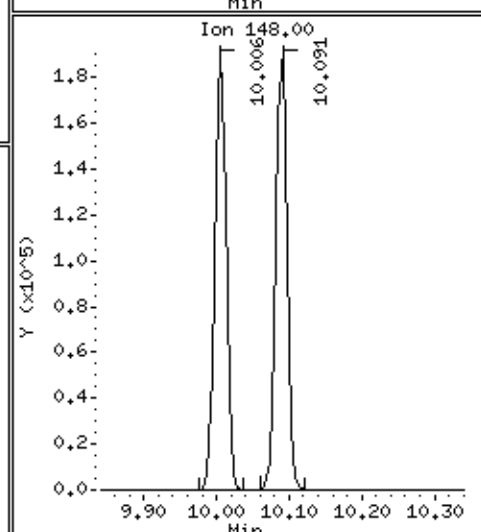
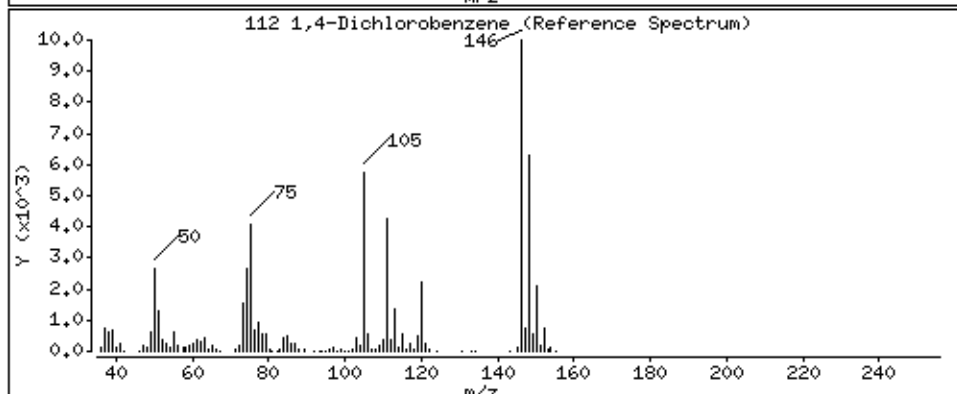
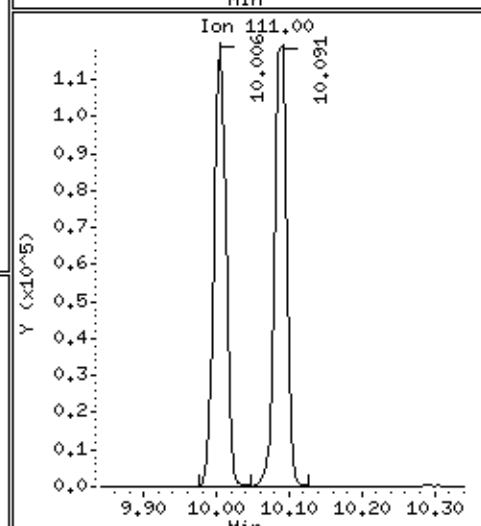
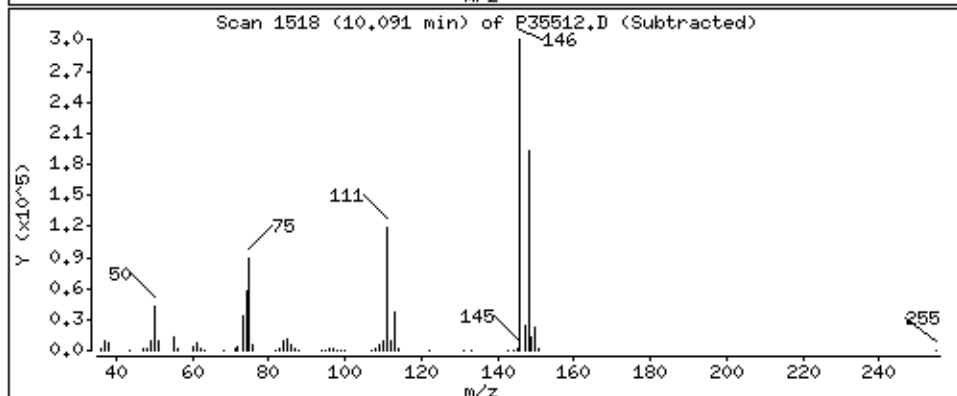
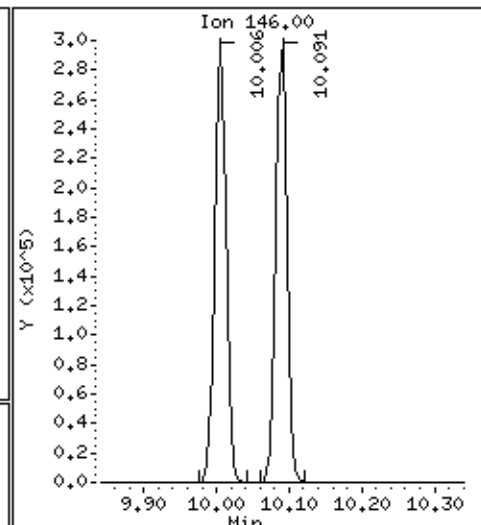
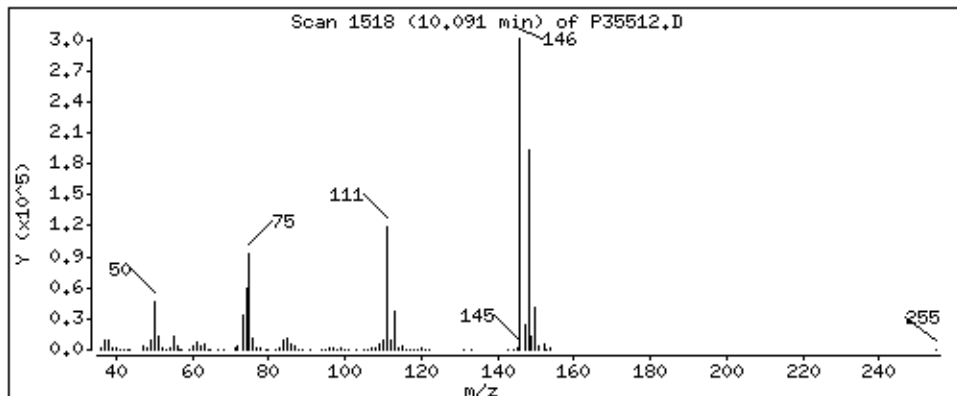
Column phase: RTX-624

Column diameter: 0.18

112 1,4-Dichlorobenzene

Concentration: 45.9 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

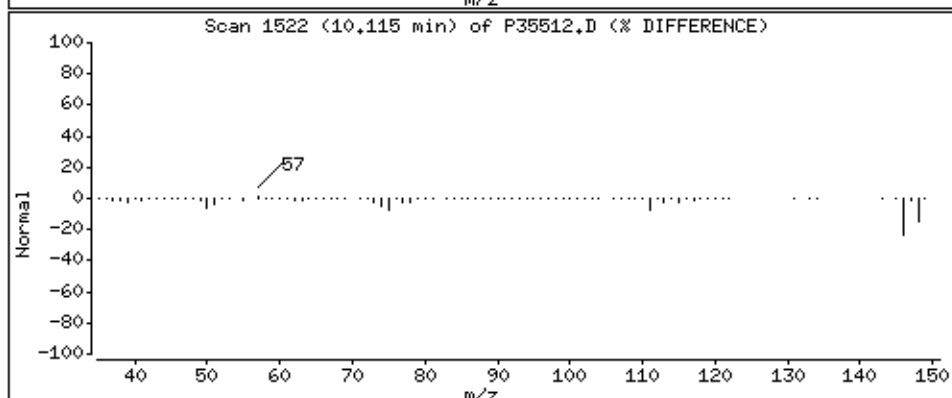
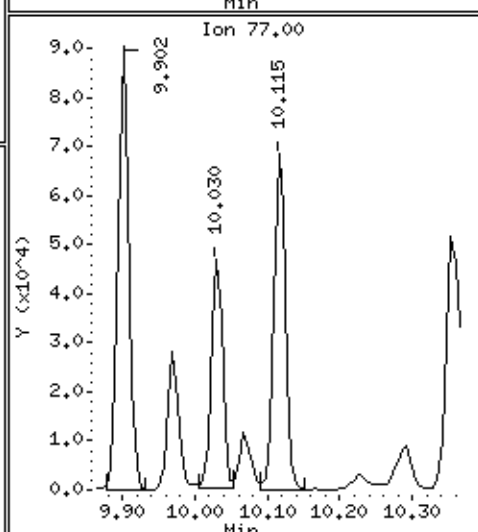
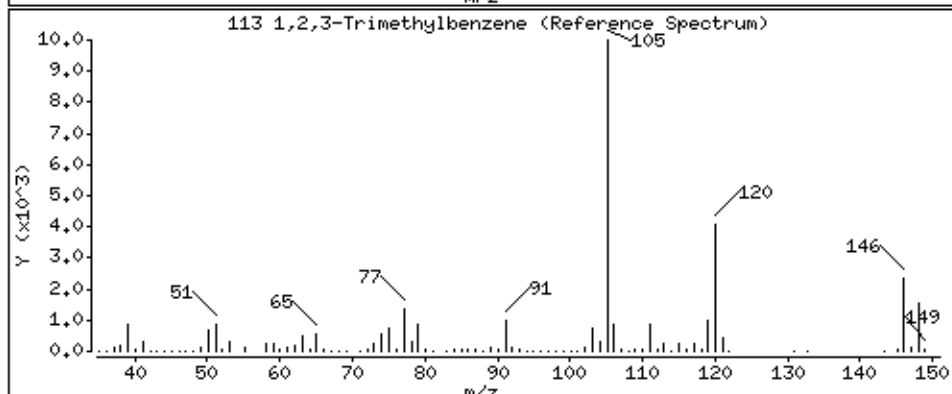
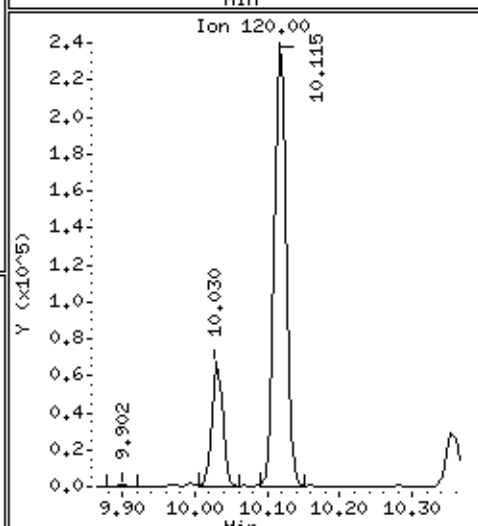
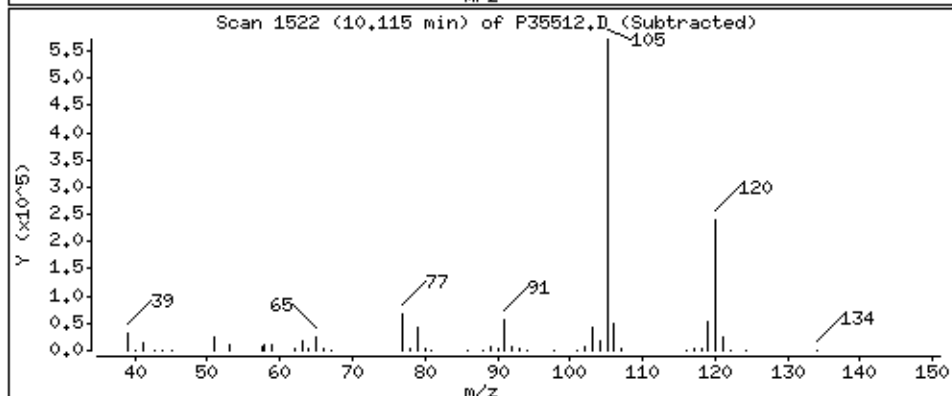
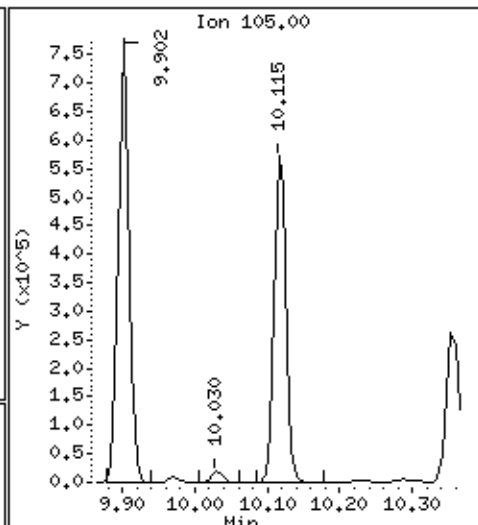
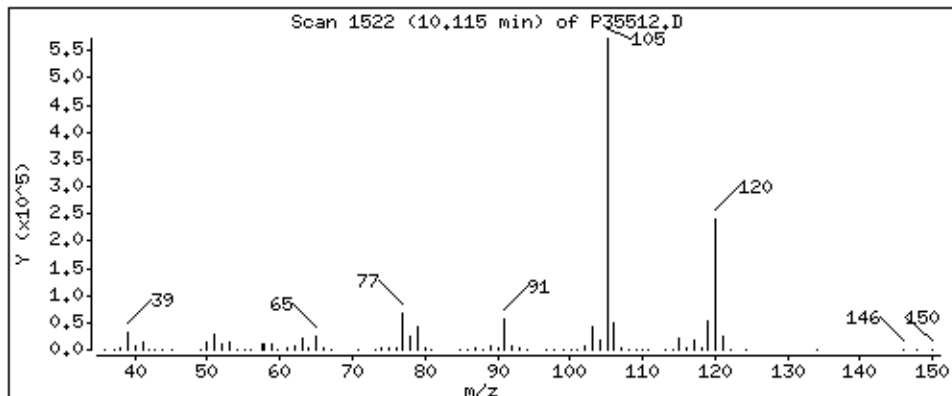
Column phase: RTX-624

Column diameter: 0,18

113 1,2,3-Trimethylbenzene

Concentration: 47.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

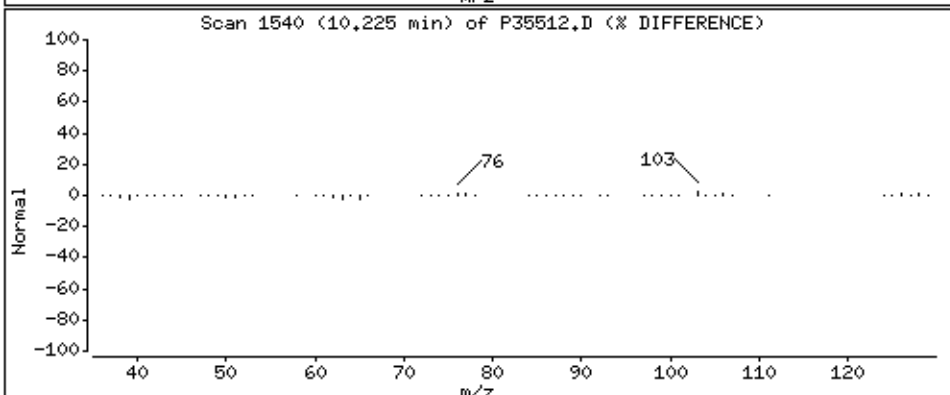
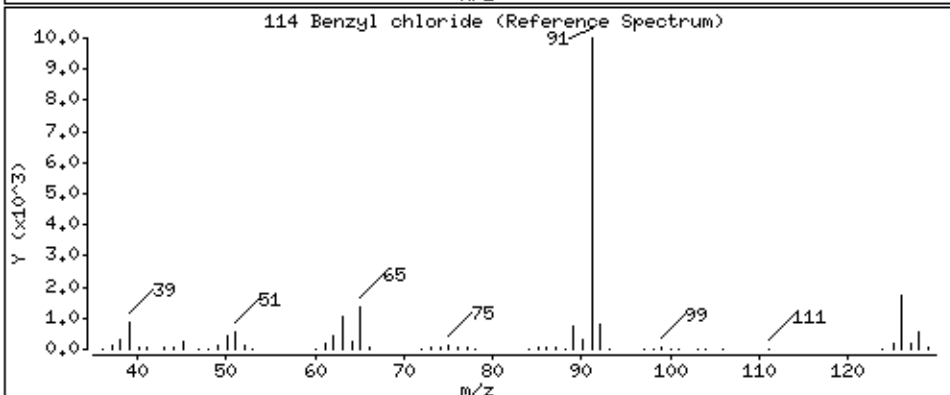
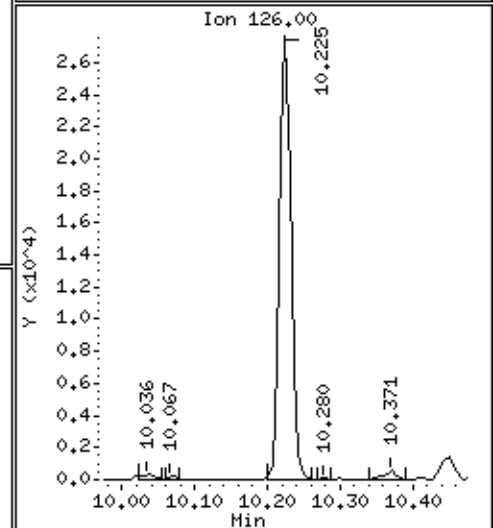
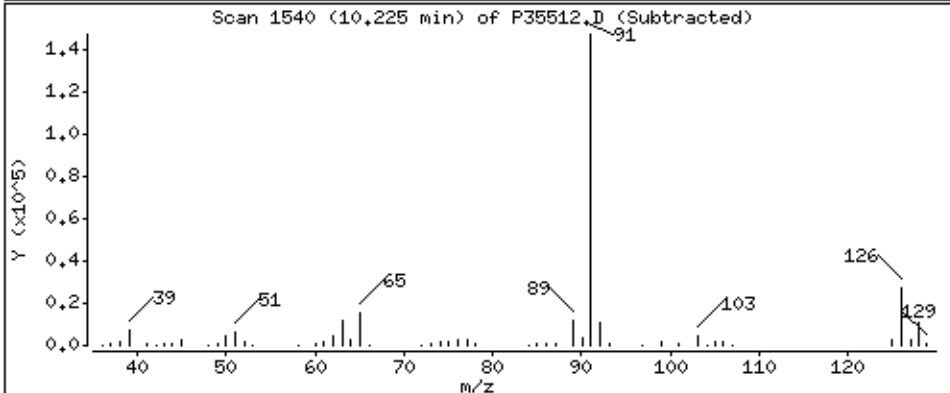
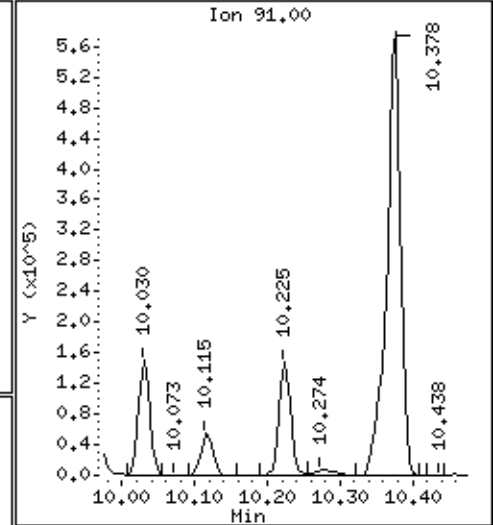
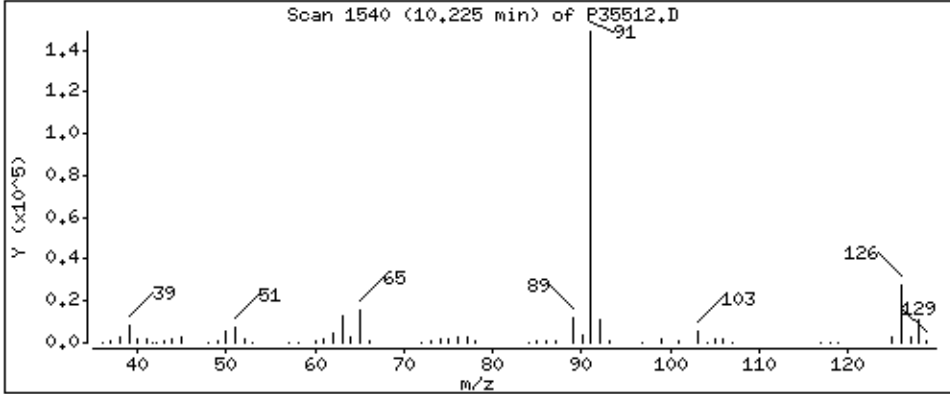
Column phase: RTX-624

Column diameter: 0,18

114 Benzyl chloride

Concentration: 36,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

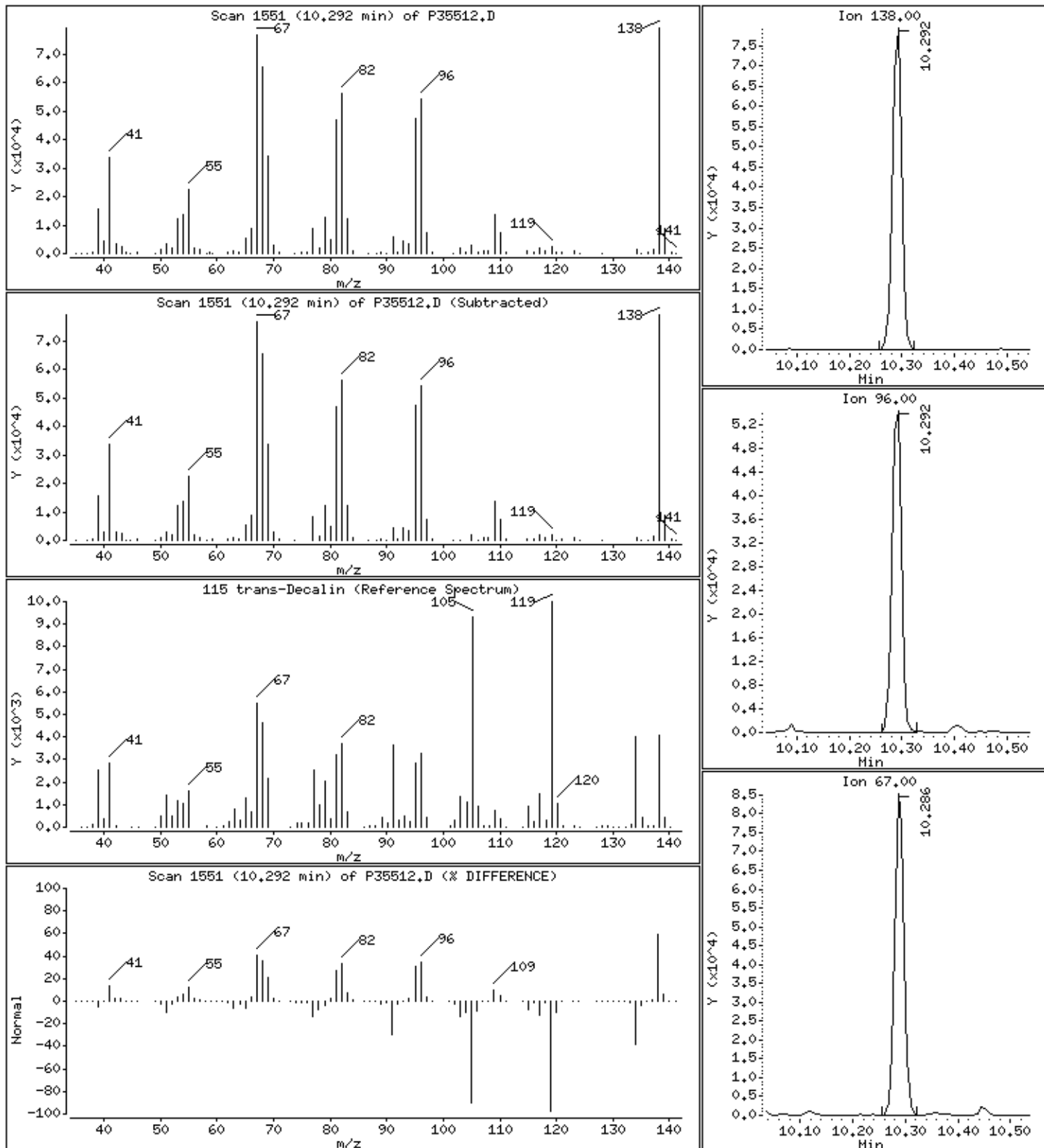
Column phase: RTX-624

Column diameter: 0,18

115 trans-Decalin

Concentration: 42.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

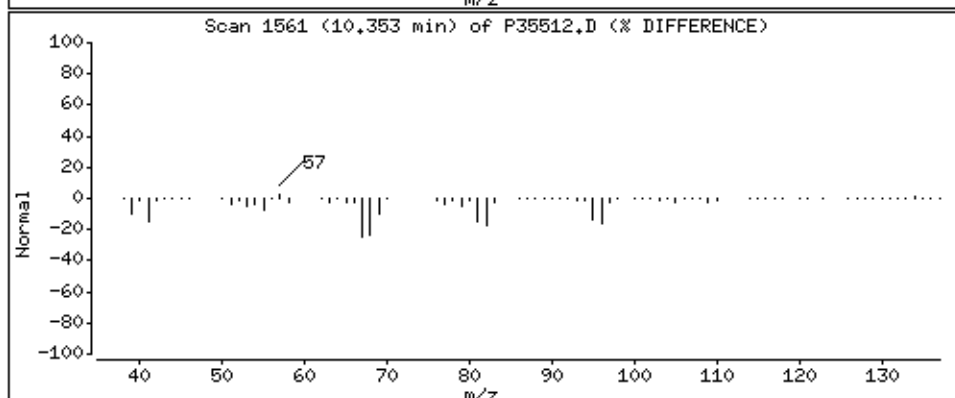
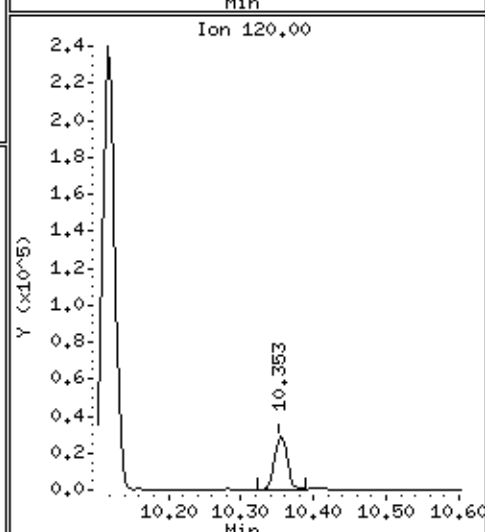
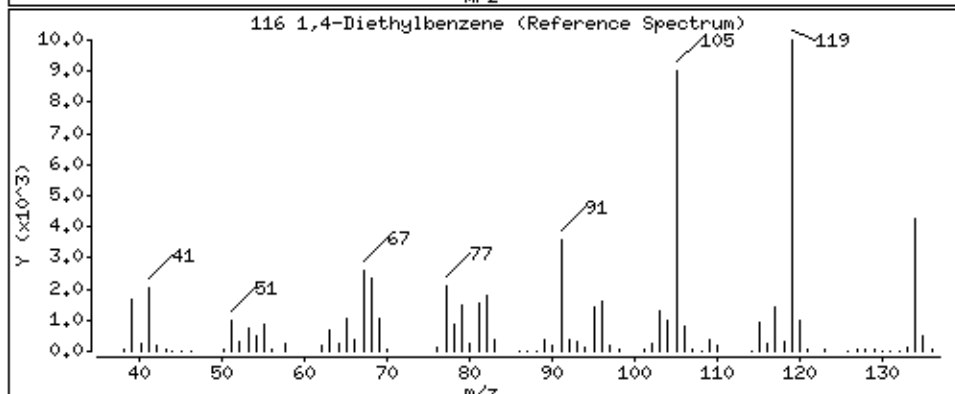
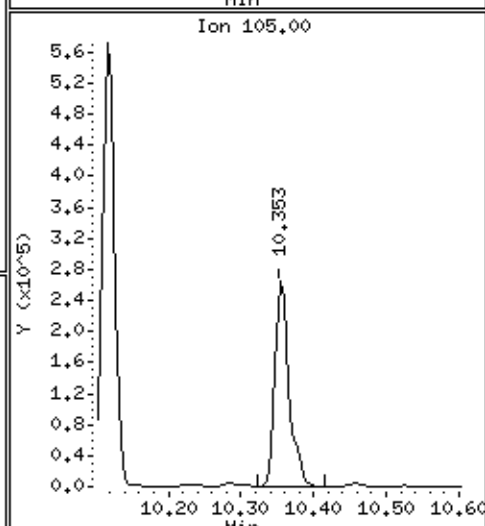
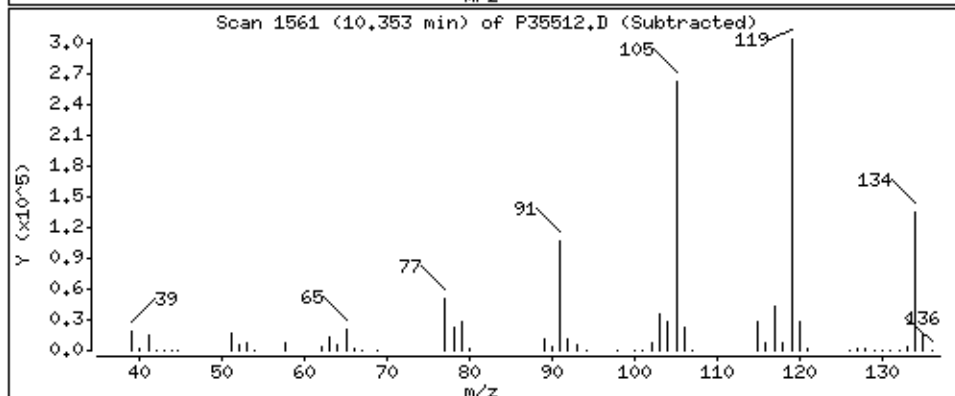
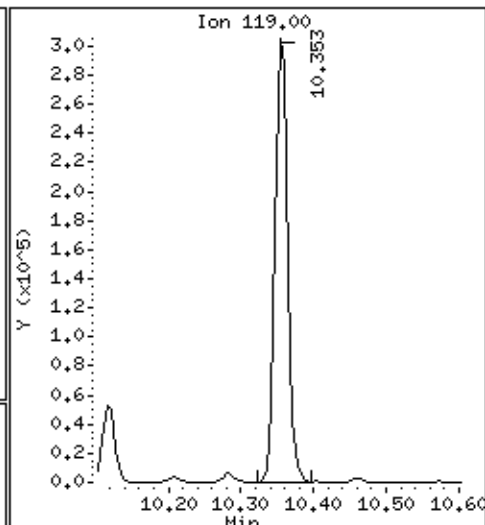
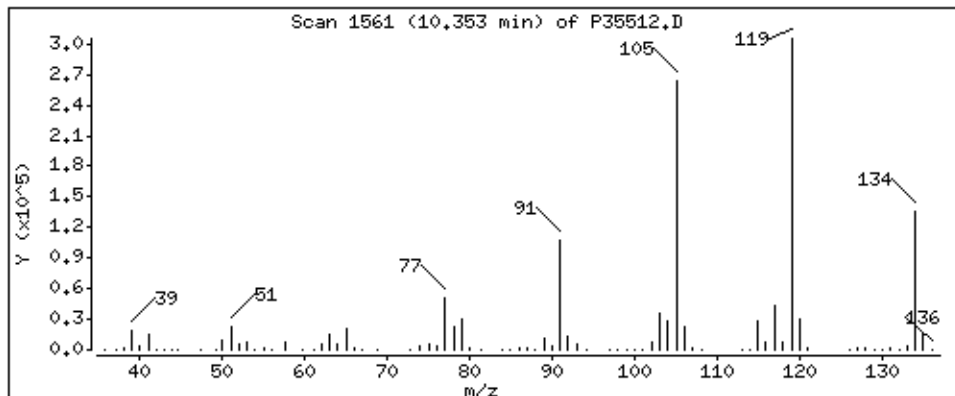
Column phase: RTX-624

Column diameter: 0.18

116 1,4-Diethylbenzene

Concentration: 47.2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

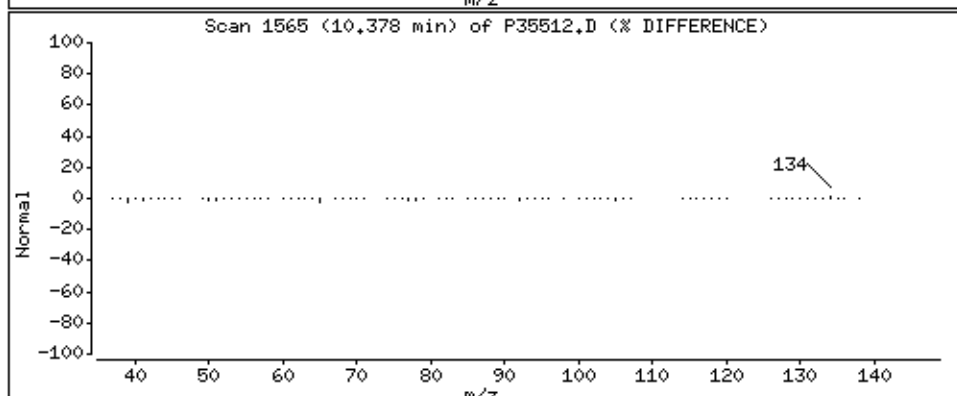
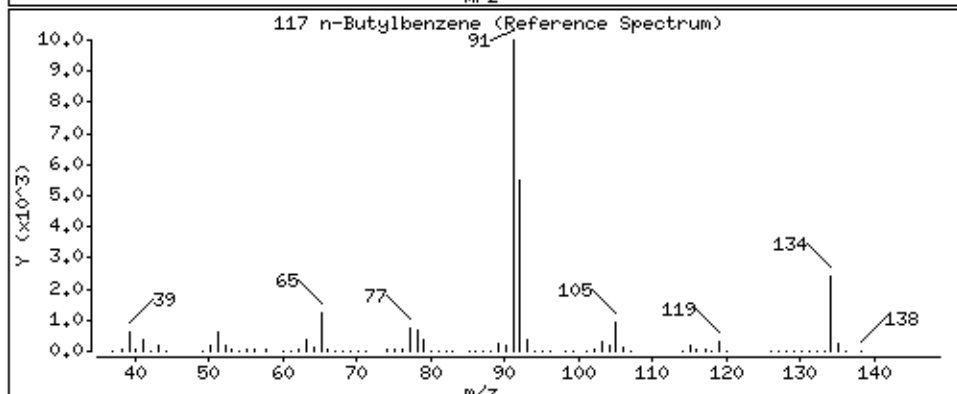
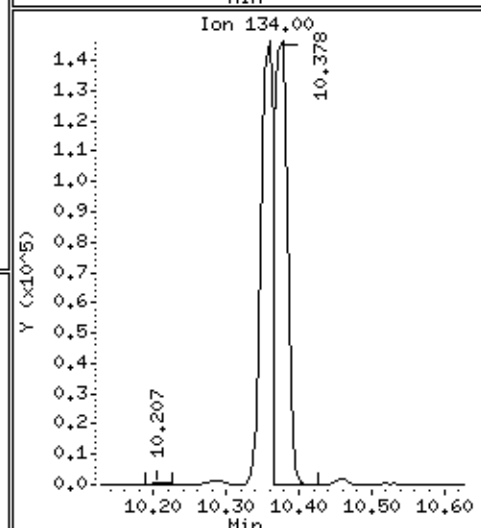
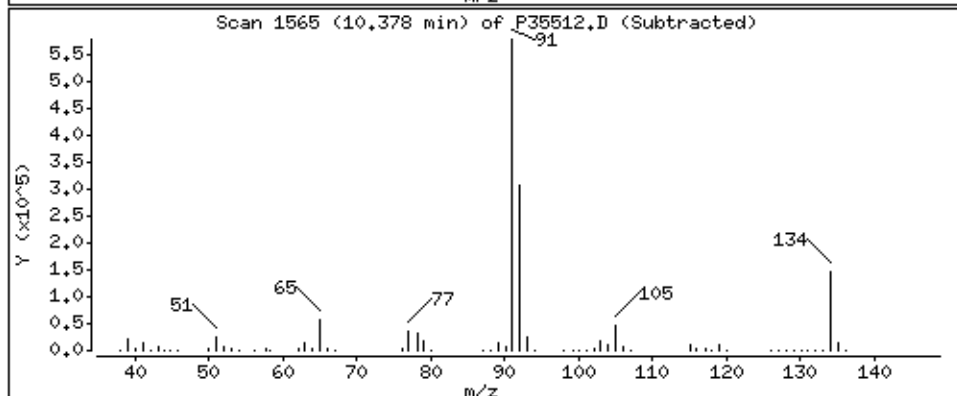
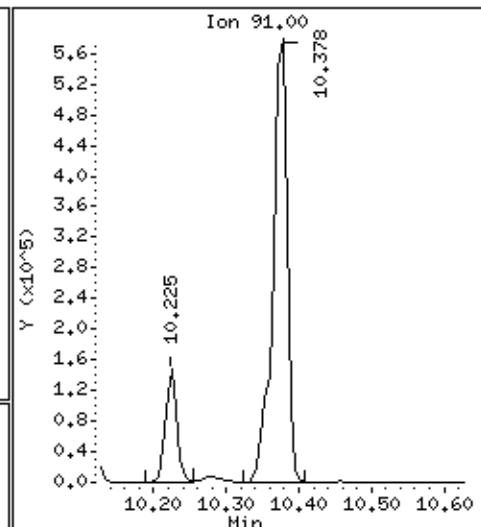
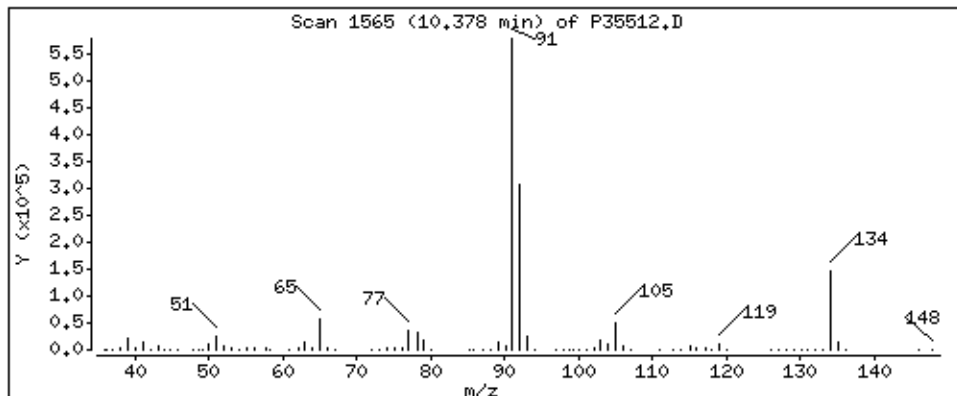
Column phase: RTX-624

Column diameter: 0,18

117 n-Butylbenzene

Concentration: 50,0 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

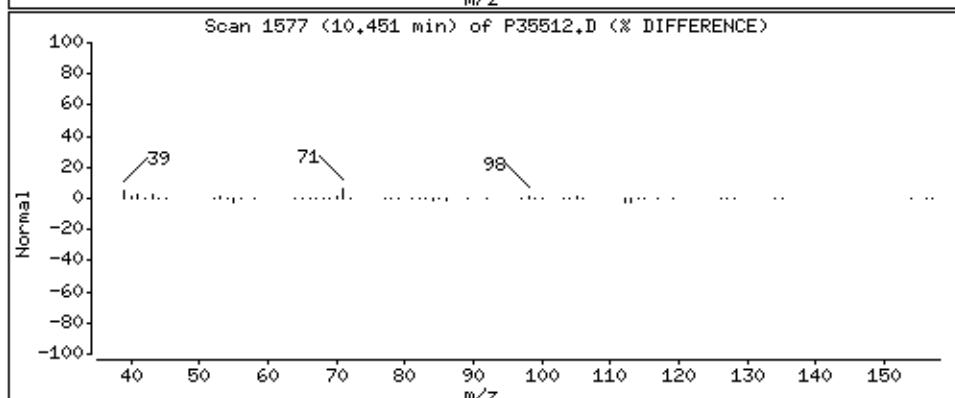
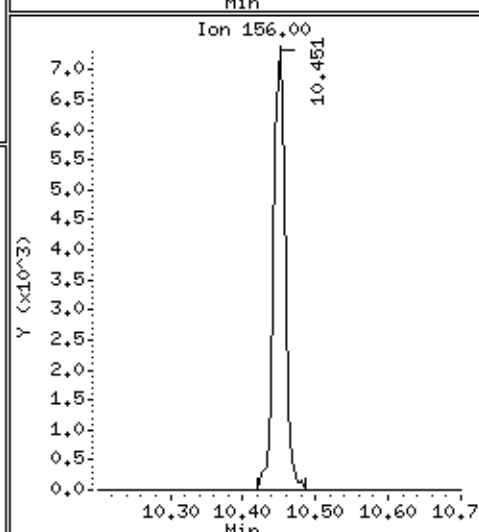
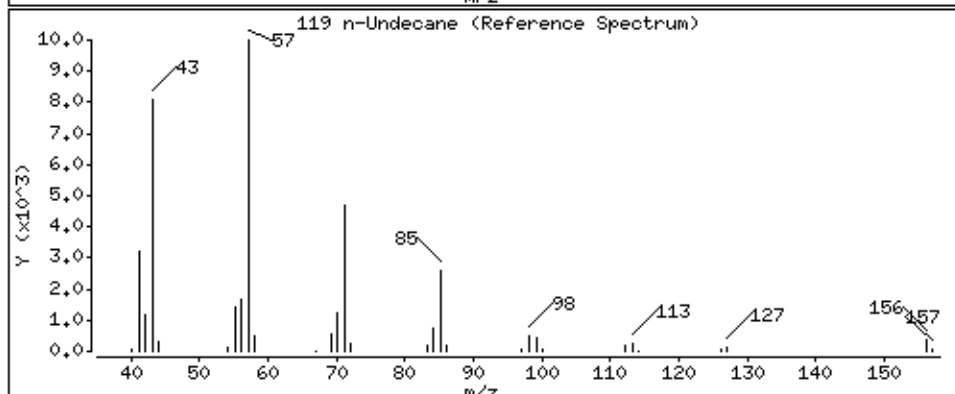
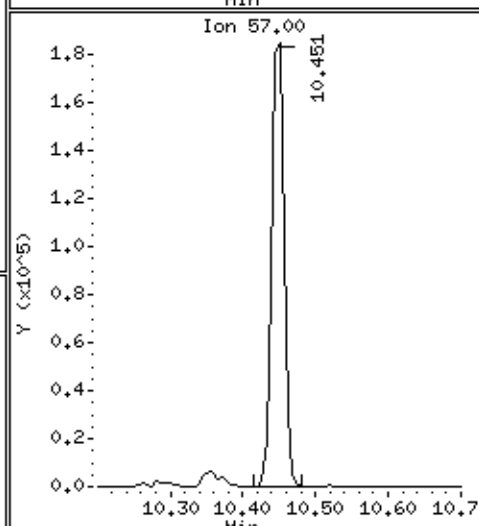
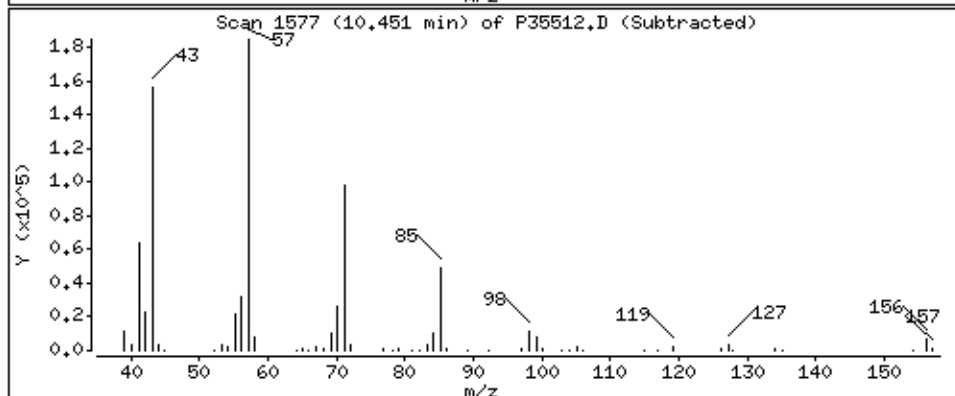
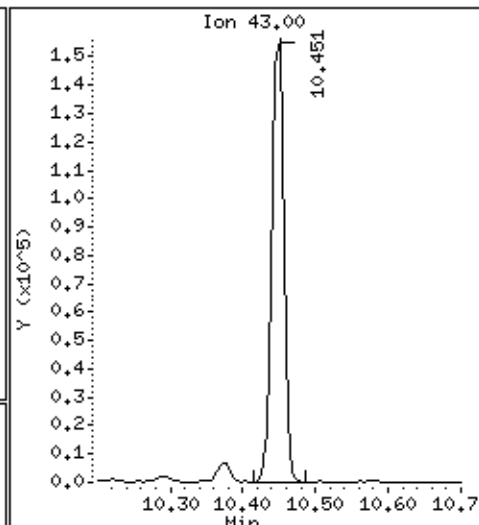
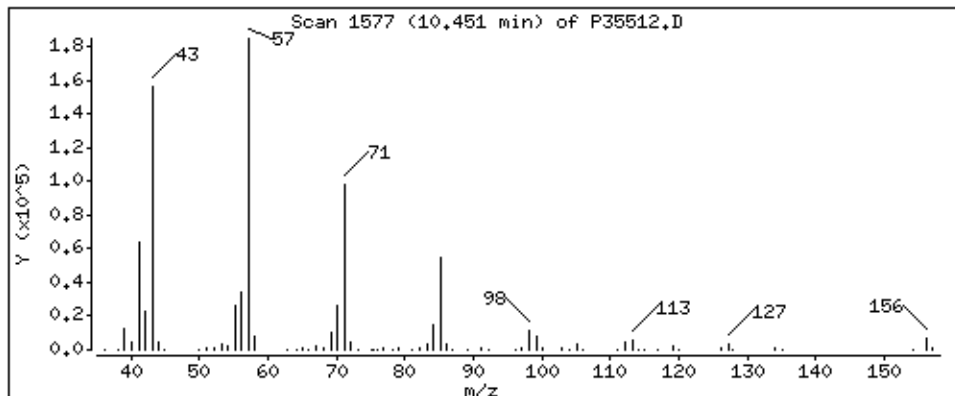
Column phase: RTX-624

Column diameter: 0.18

119 n-Undecane

Concentration: 122 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1,25

Purge Volume: 5.0

Operator: KGG

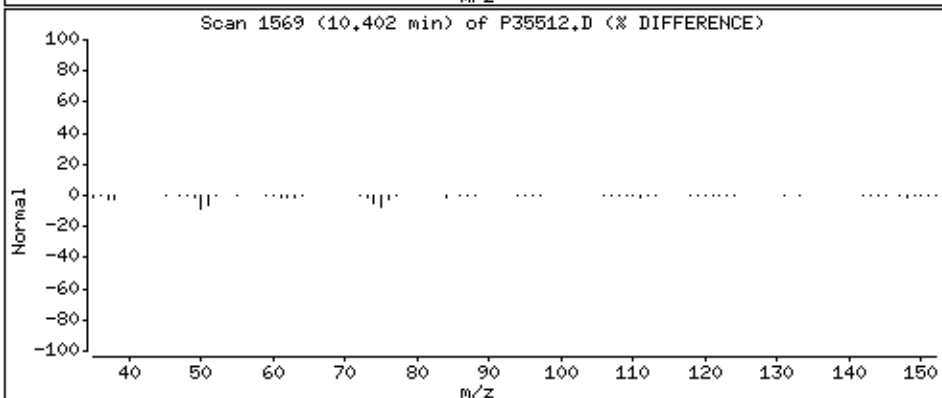
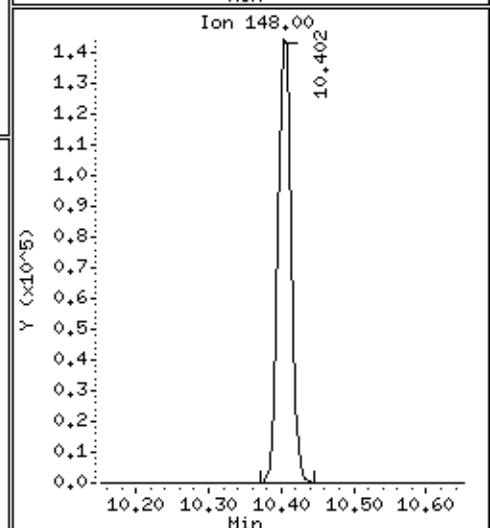
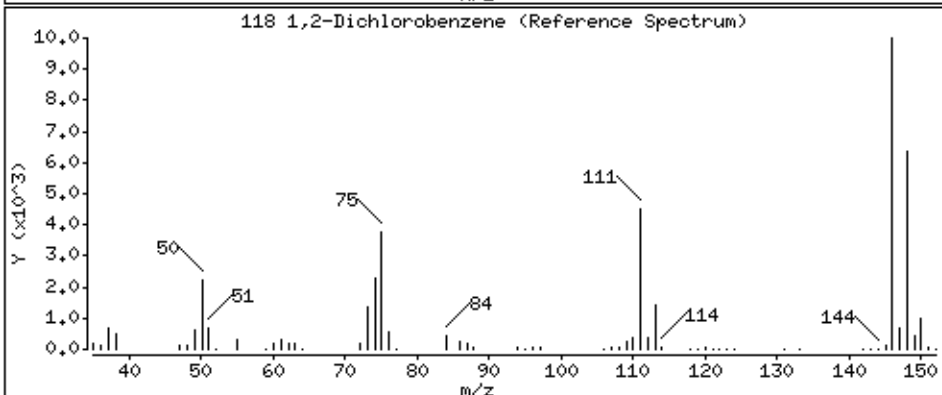
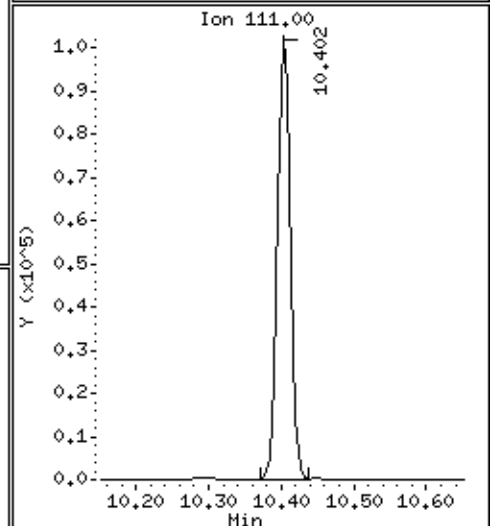
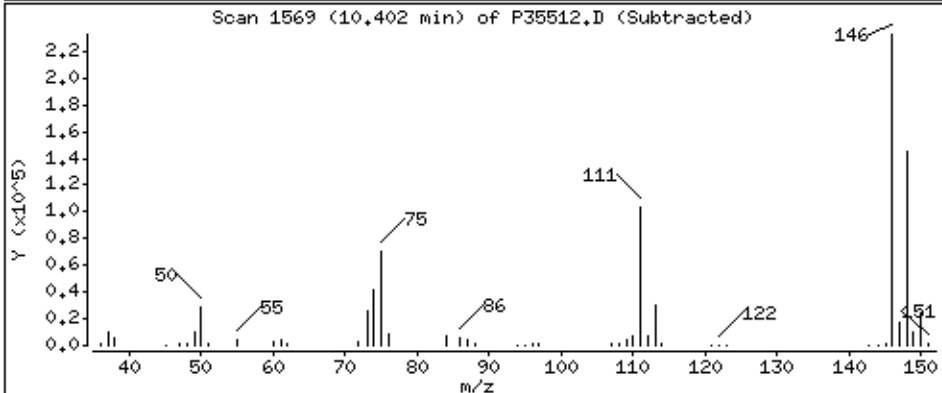
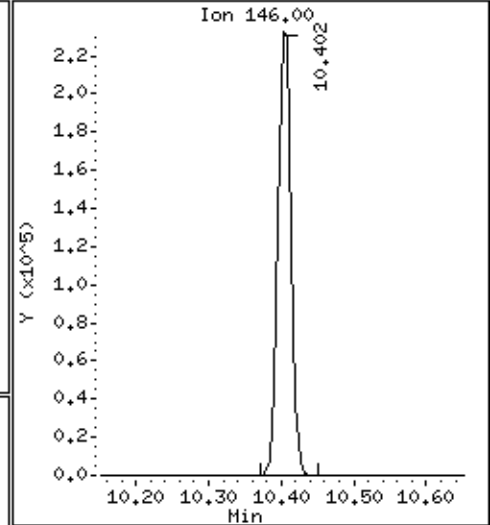
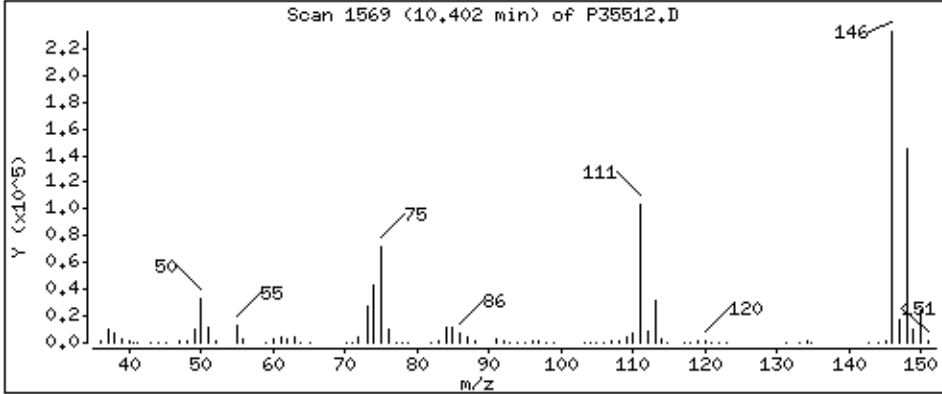
Column phase: RTX-624

Column diameter: 0,18

118 1,2-Dichlorobenzene

Concentration: 47,2 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

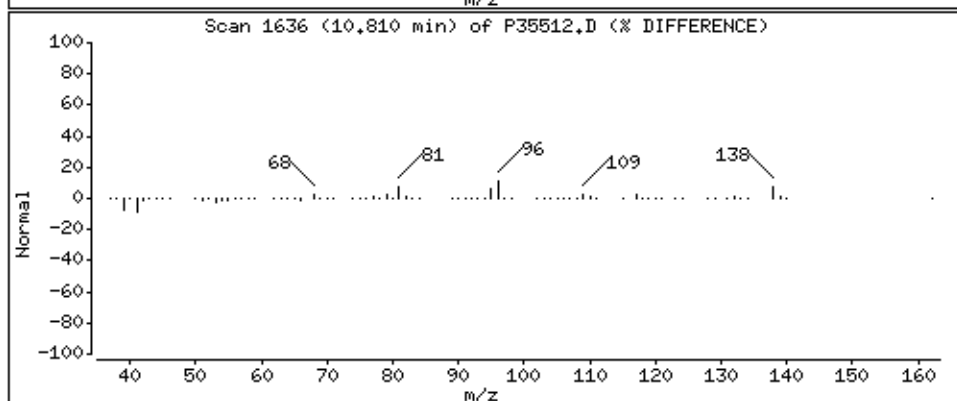
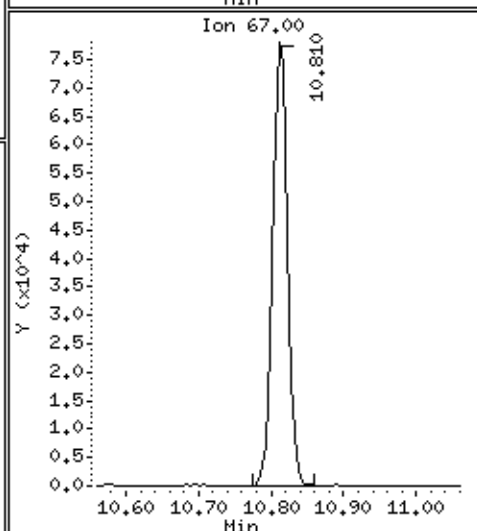
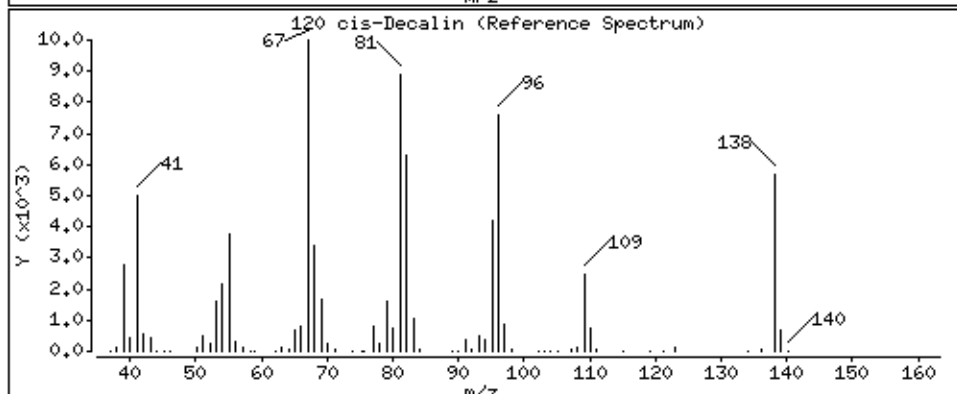
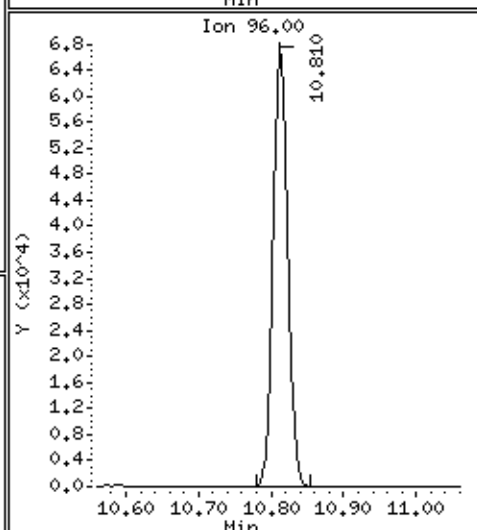
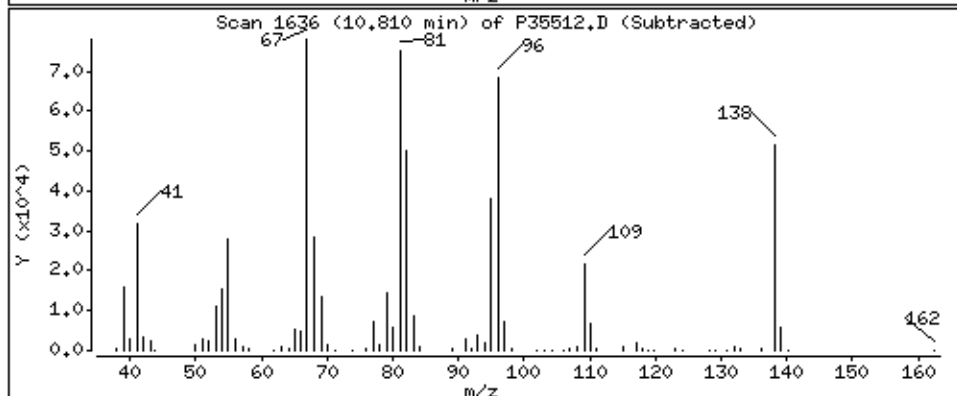
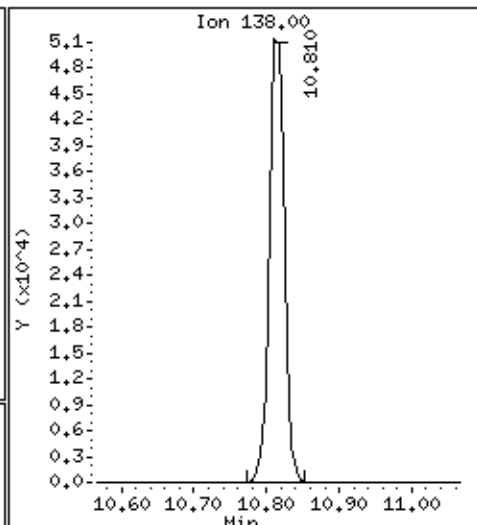
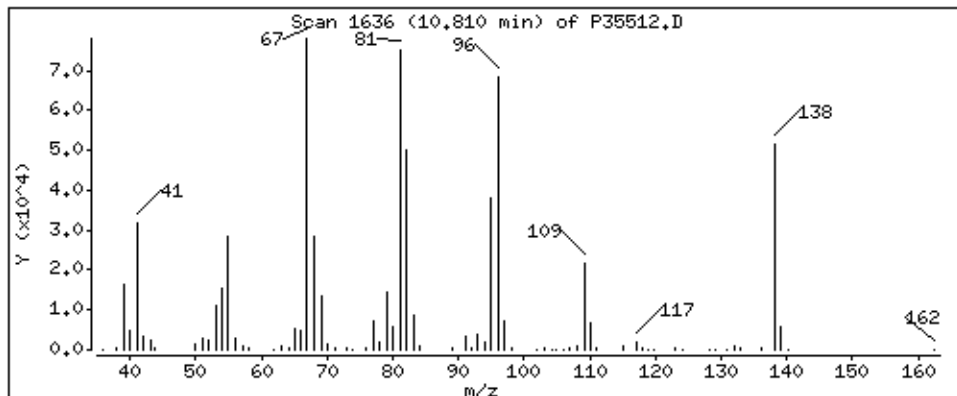
Column phase: RTX-624

Column diameter: 0.18

120 cis-Decalin

Concentration: 43.8 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

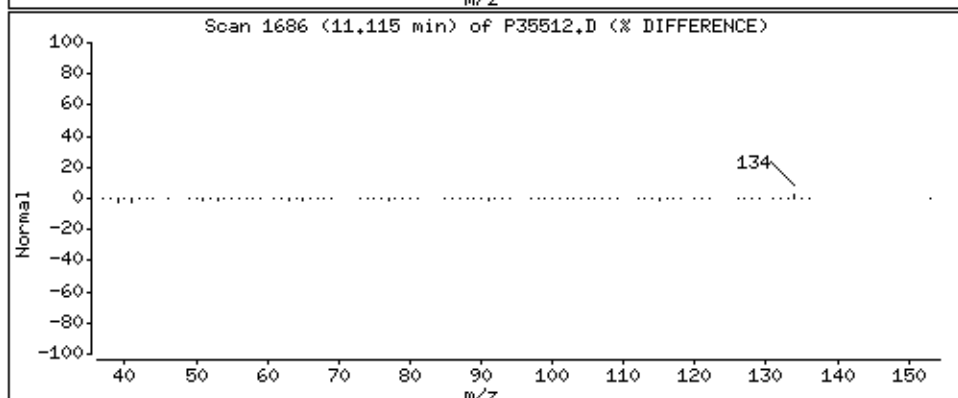
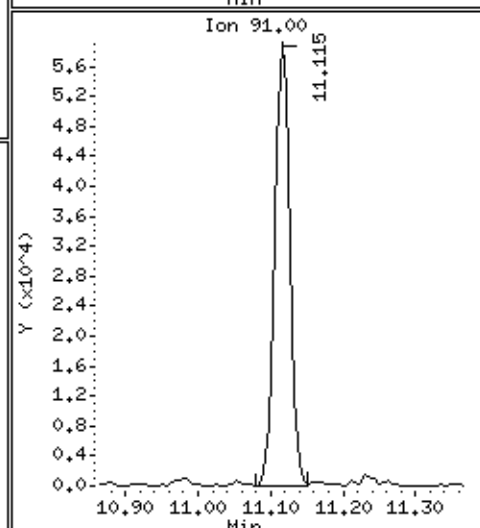
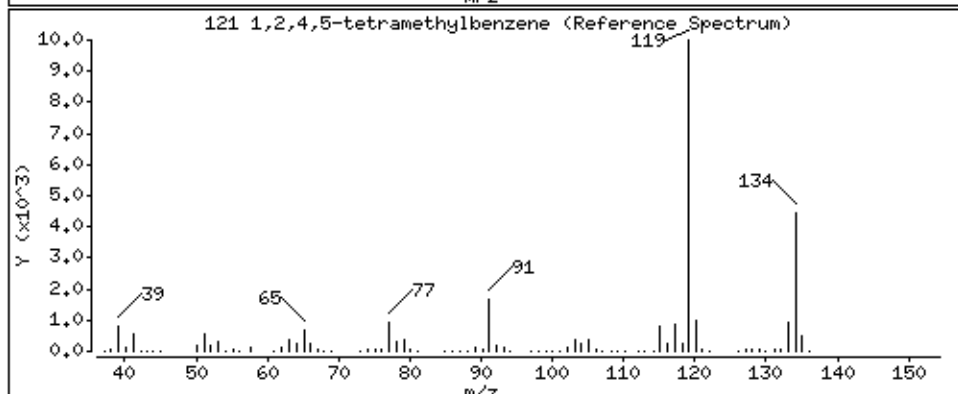
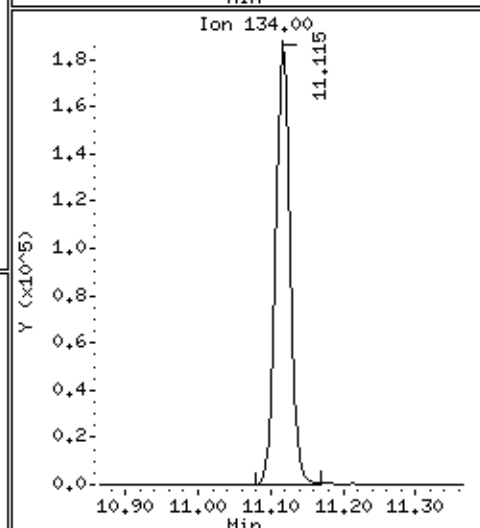
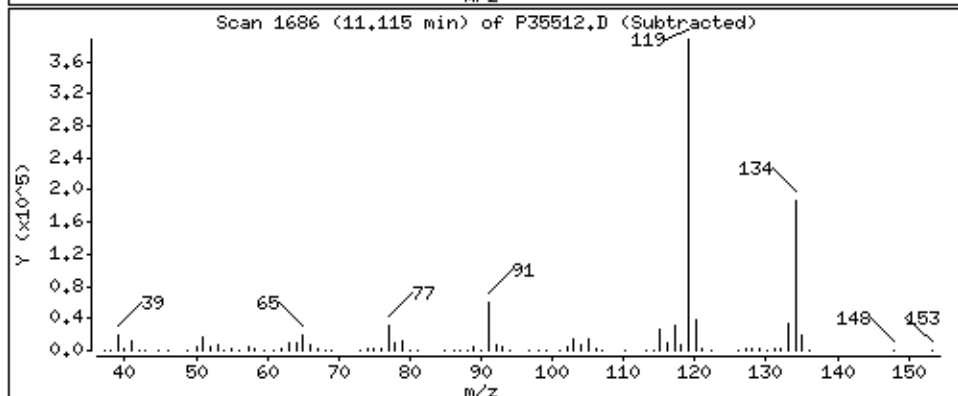
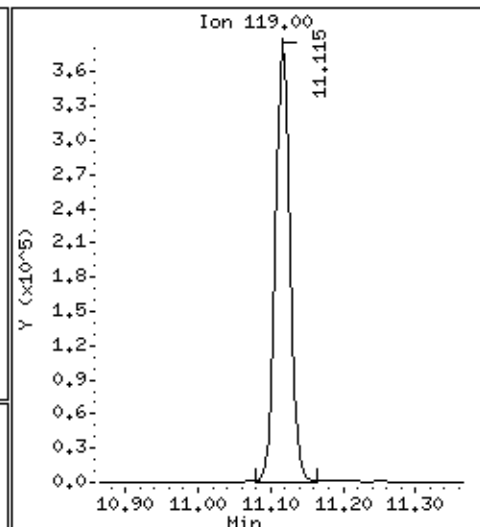
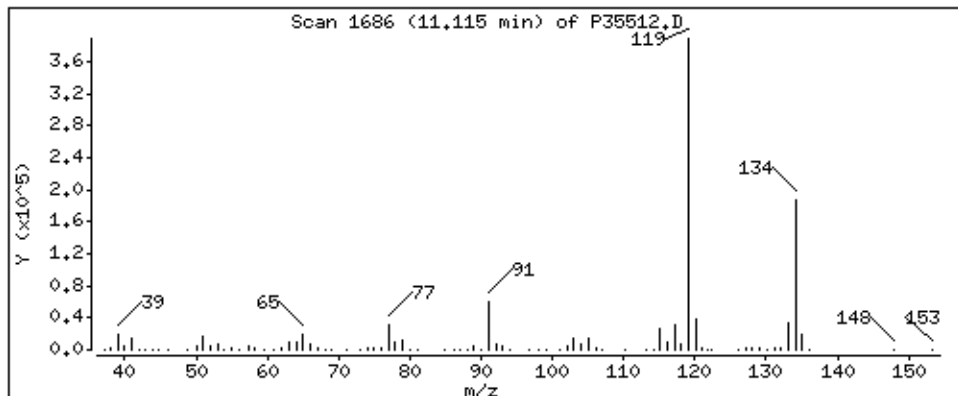
Column phase: RTX-624

Column diameter: 0,18

121 1,2,4,5-tetramethylbenzene

Concentration: 49,5 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

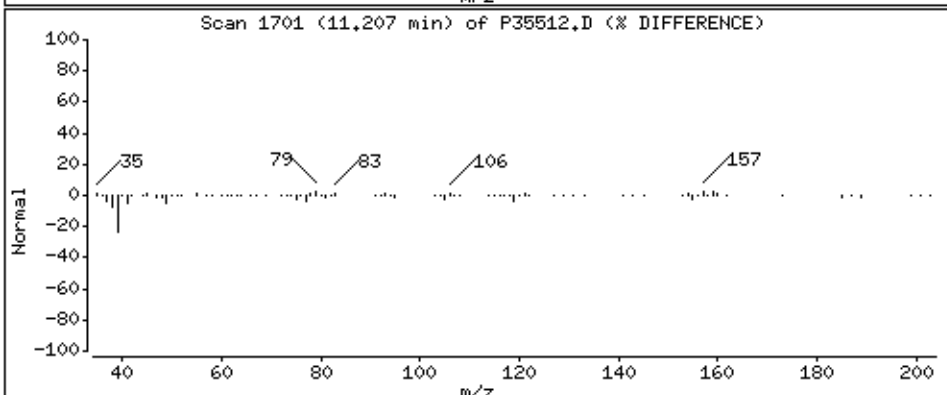
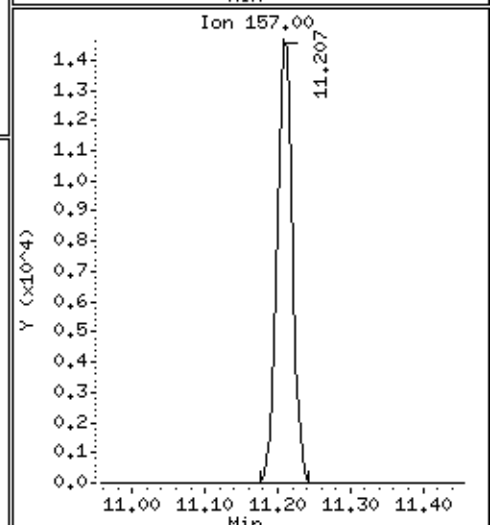
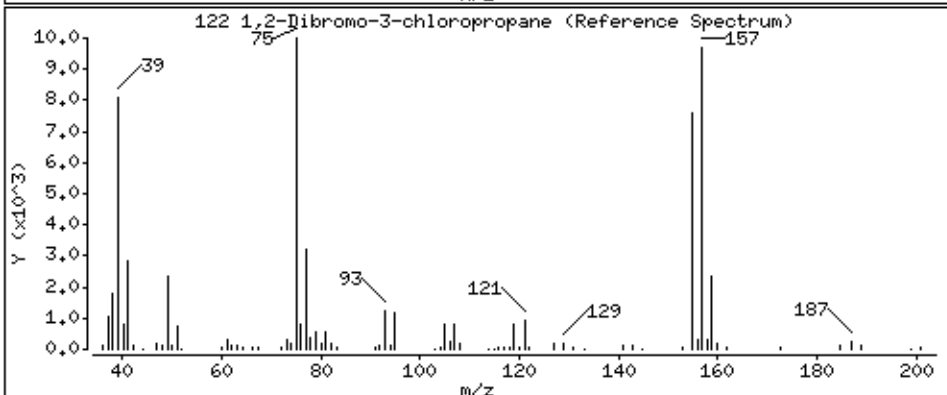
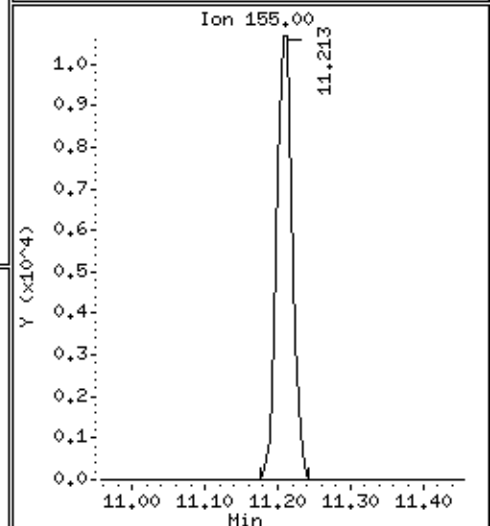
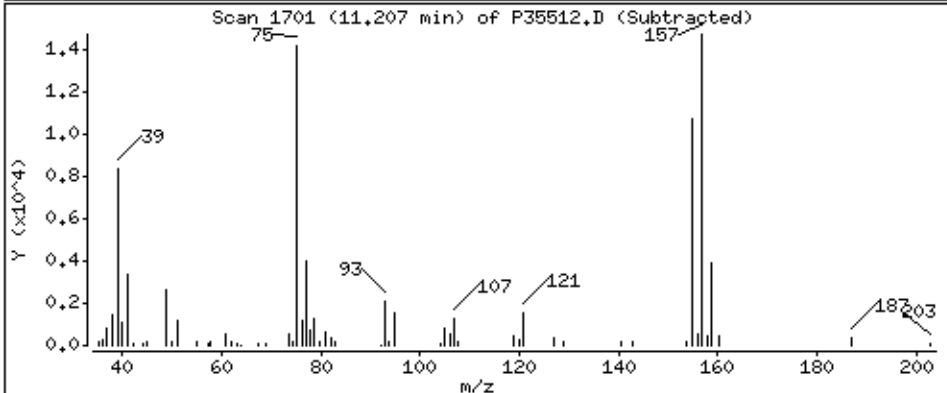
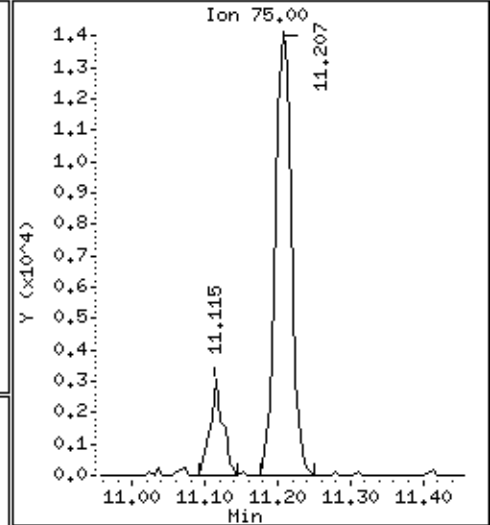
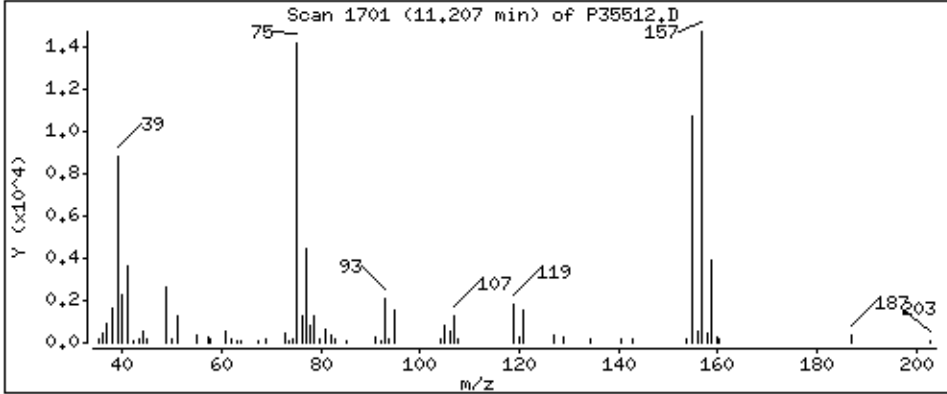
Column phase: RTX-624

Column diameter: 0,18

122 1,2-Dibromo-3-chloropropane

Concentration: 45,1 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

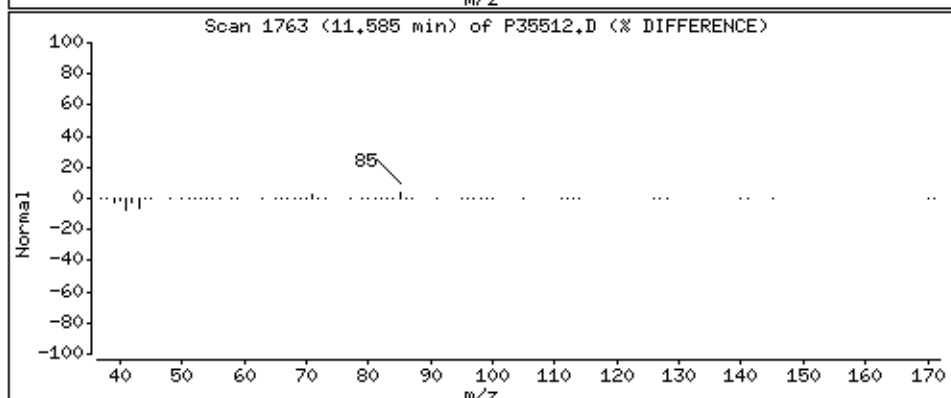
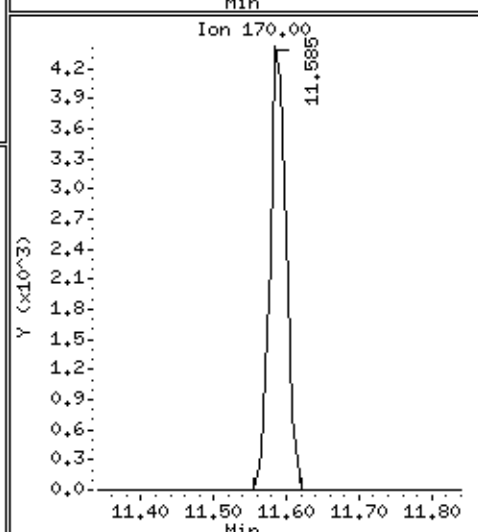
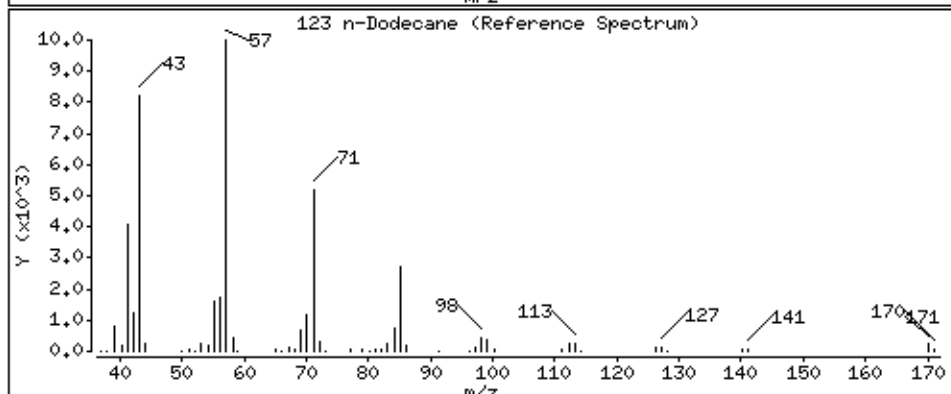
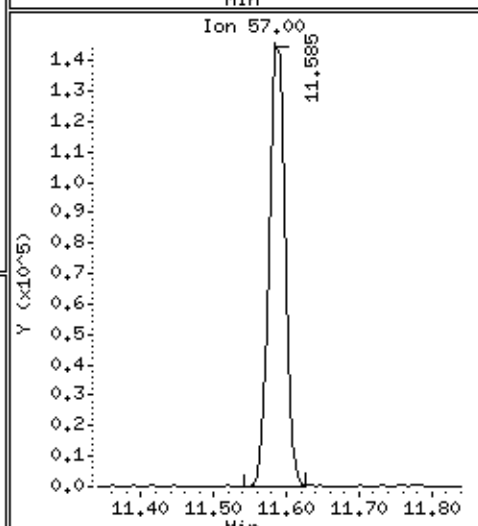
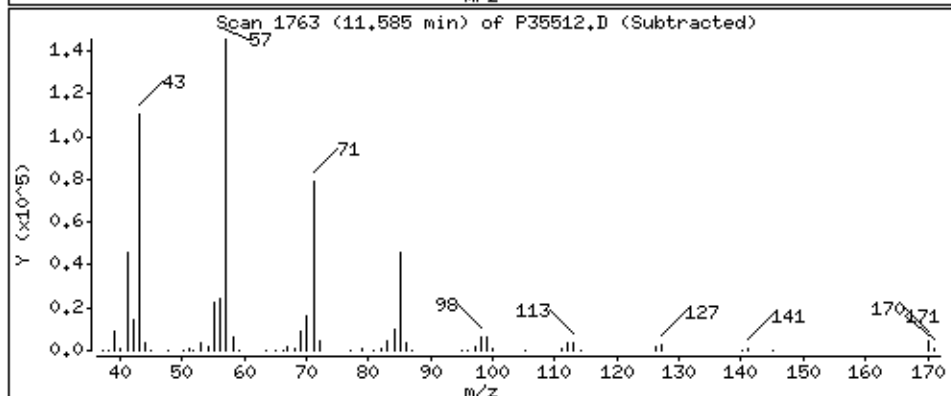
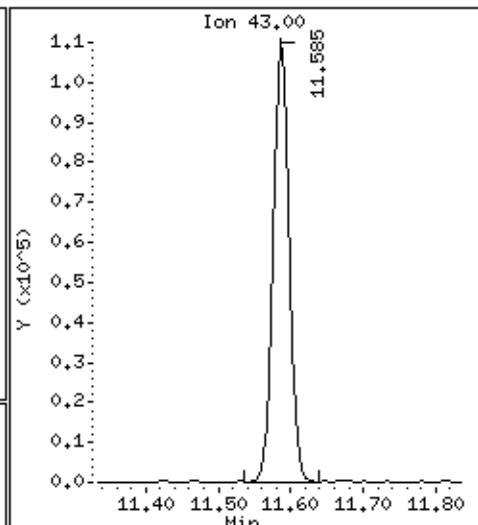
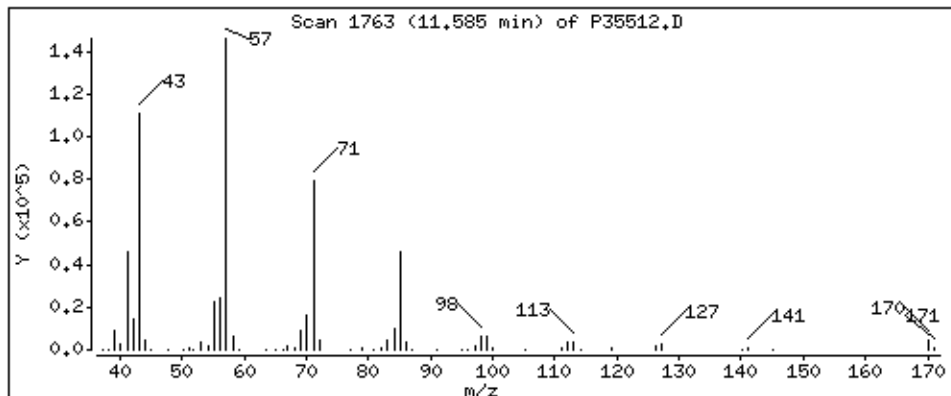
Column phase: RTX-624

Column diameter: 0,18

123 n-Dodecane

Concentration: 273 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

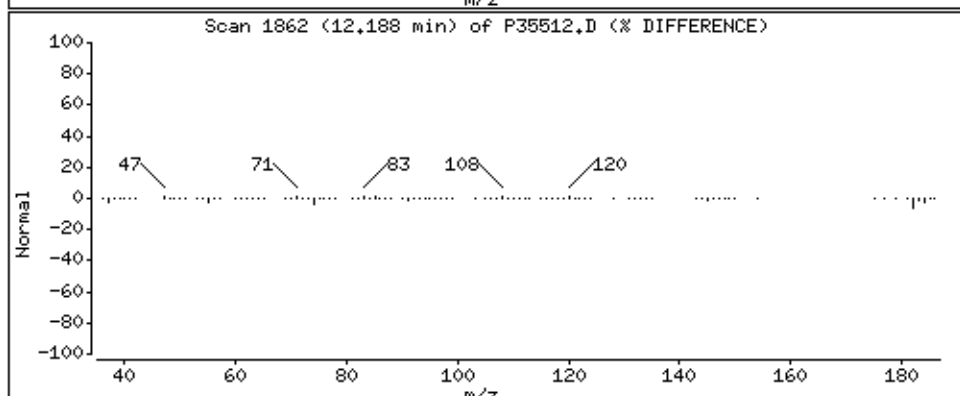
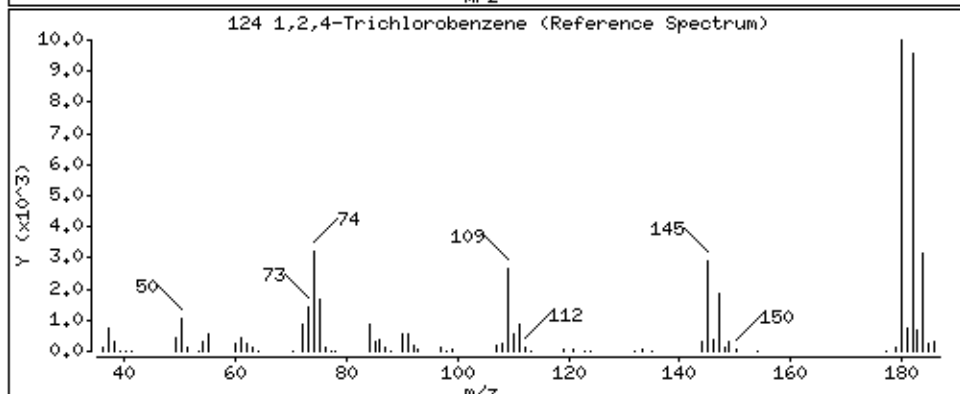
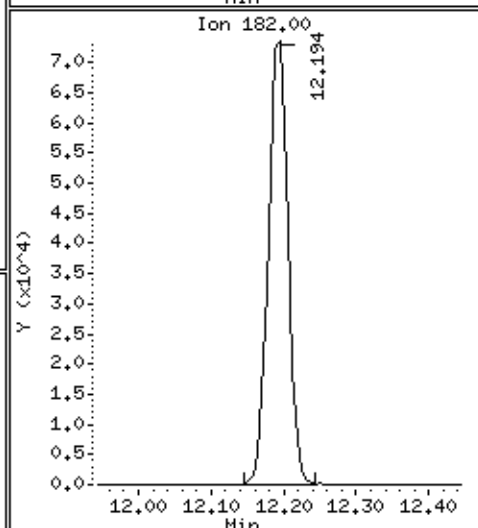
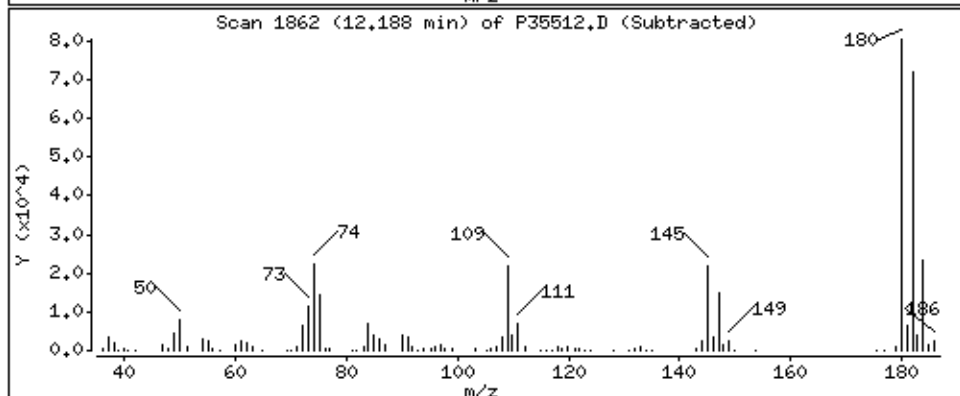
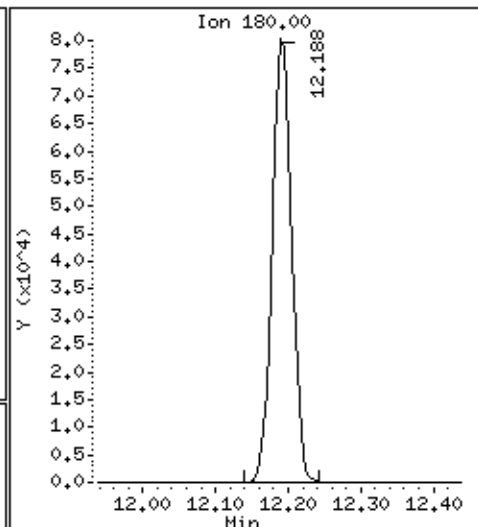
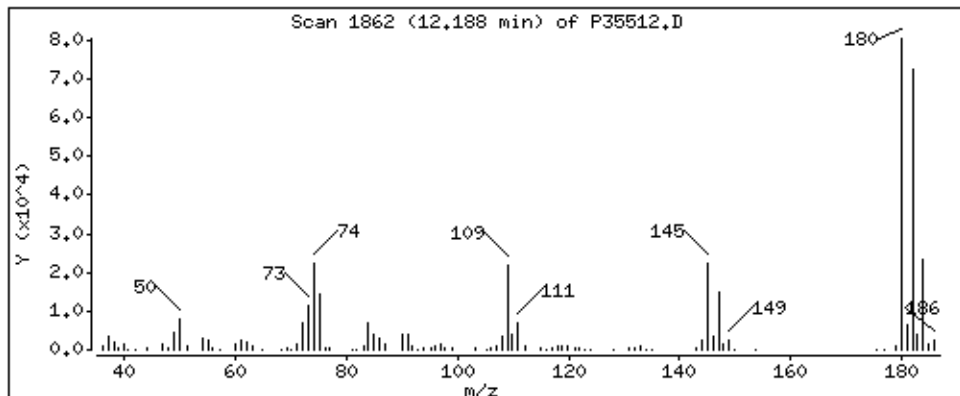
Column phase: RTX-624

Column diameter: 0,18

124 1,2,4-Trichlorobenzene

Concentration: 48,3 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

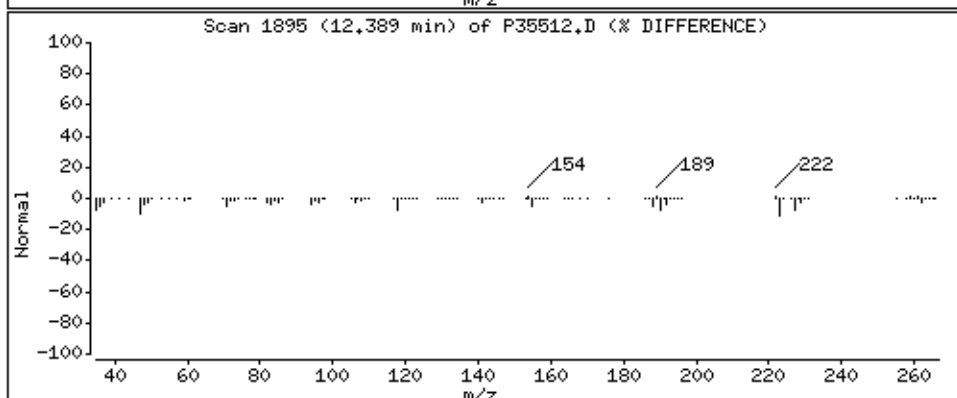
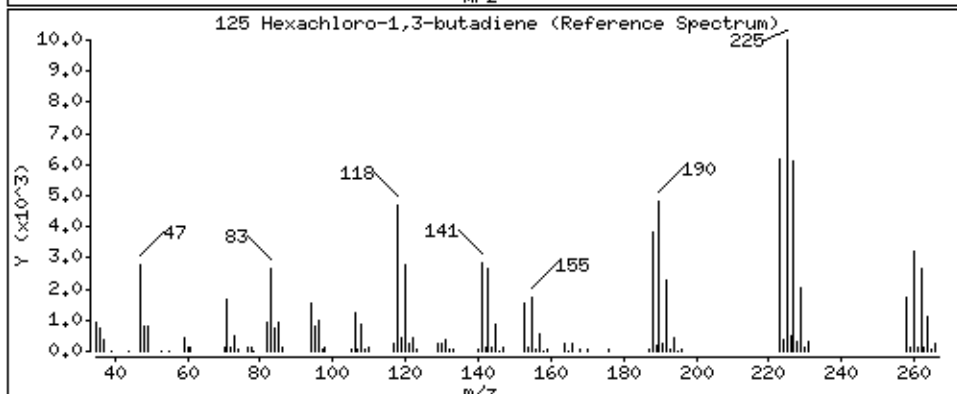
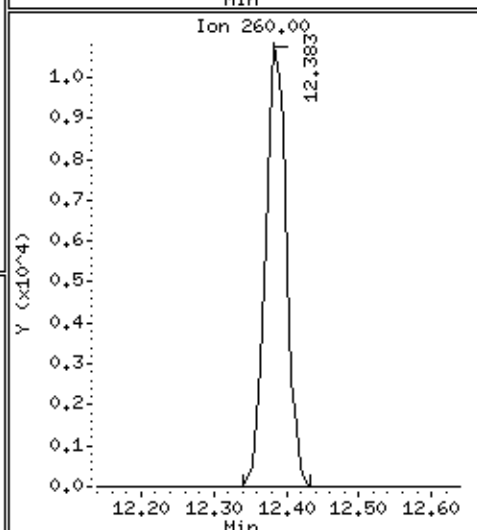
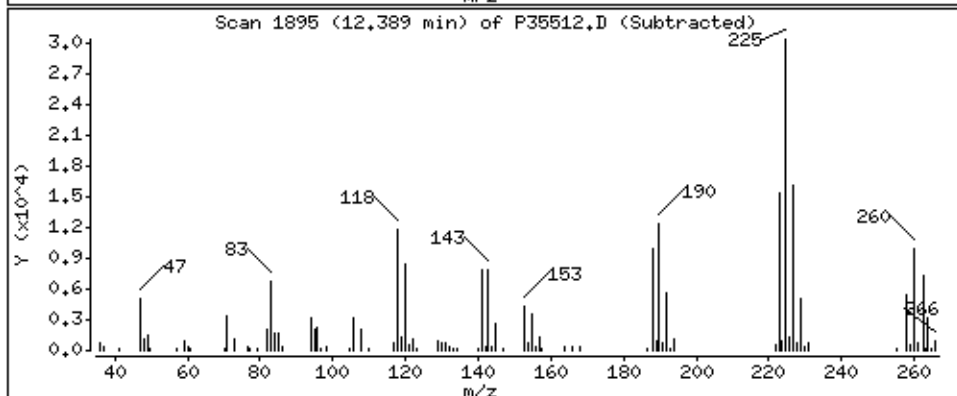
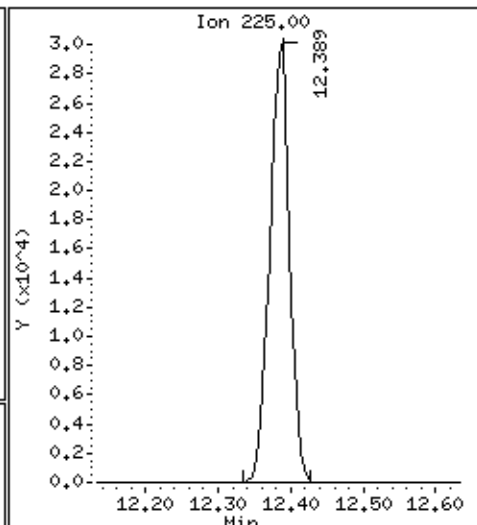
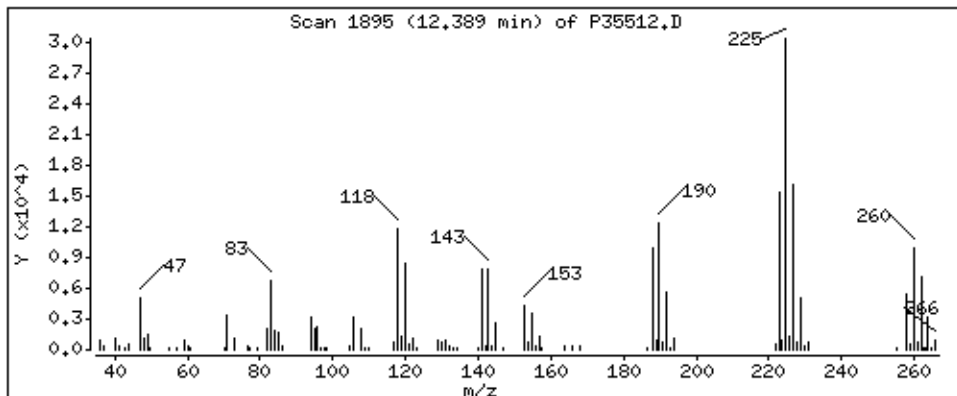
Column phase: RTX-624

Column diameter: 0,18

125 Hexachloro-1,3-butadiene

Concentration: 39,2 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466;1.25

Purge Volume: 5.0

Operator: KGG

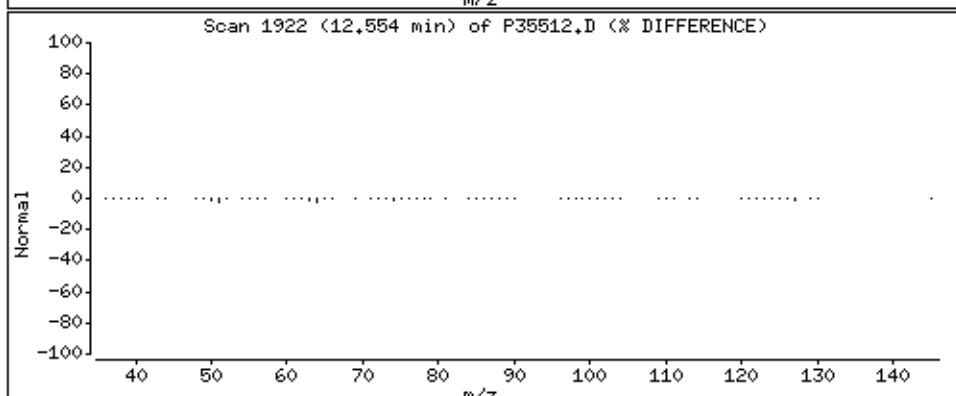
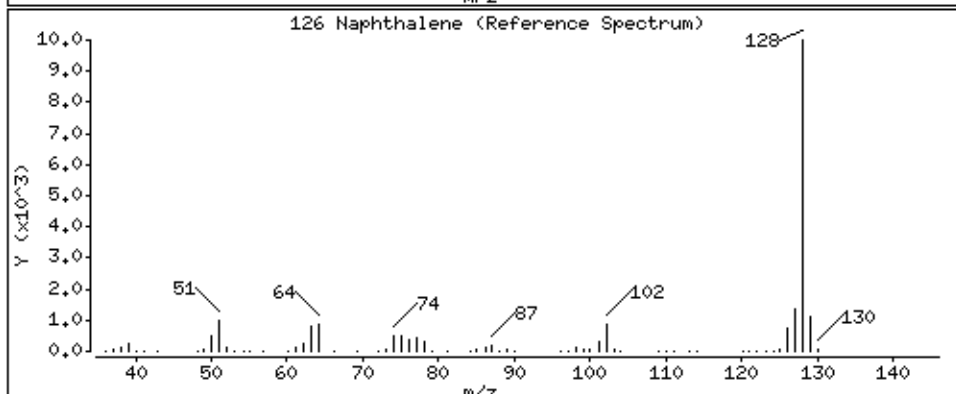
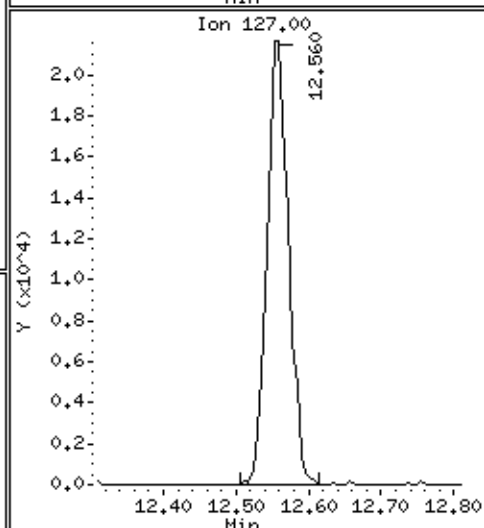
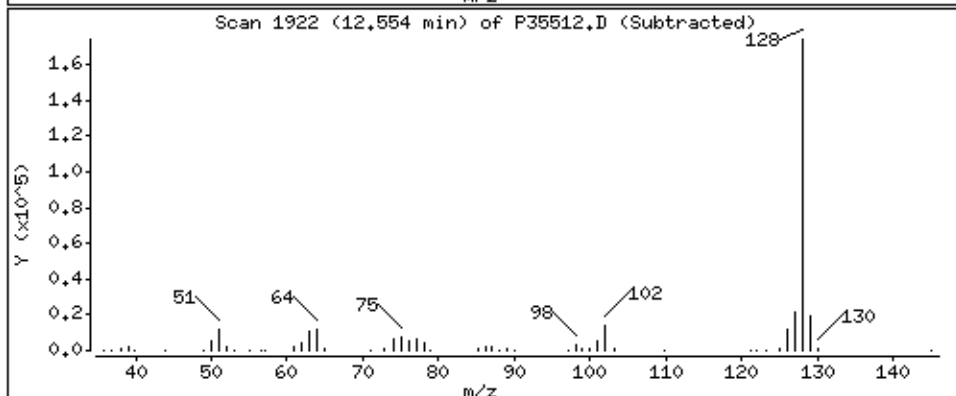
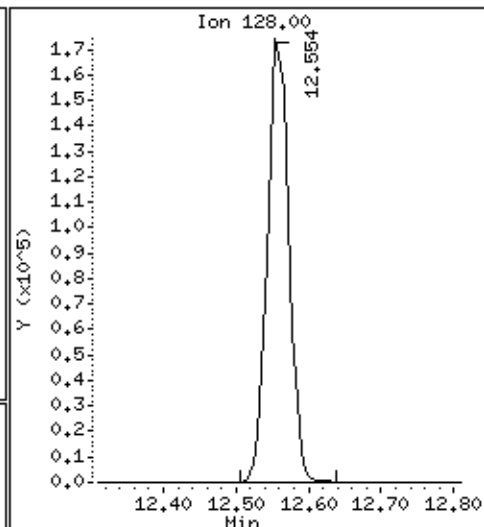
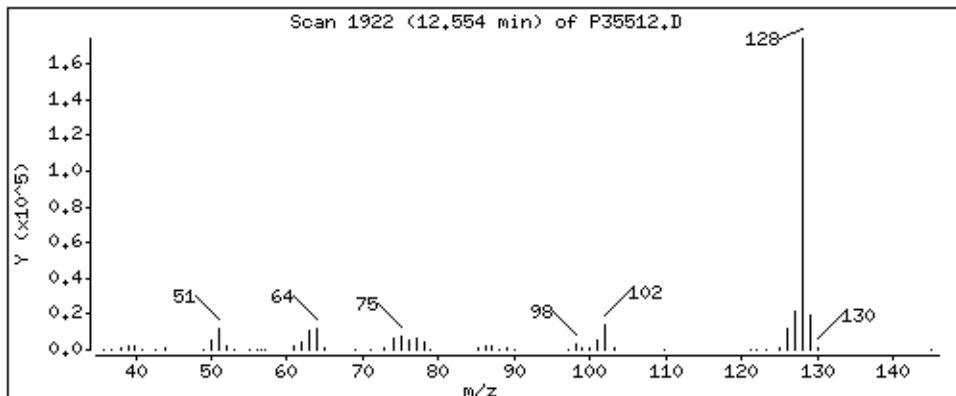
Column phase: RTX-624

Column diameter: 0,18

126 Naphthalene

Concentration: 51.7 ug/L

Review Code:



Data File: \\v70wintarget\chem\70msv8.i\102021.b\P35512.D

Date : 20-OCT-2021 15:29

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv8.i

Sample Info: 1160404, 120466:1.25

Purge Volume: 5.0

Operator: KGG

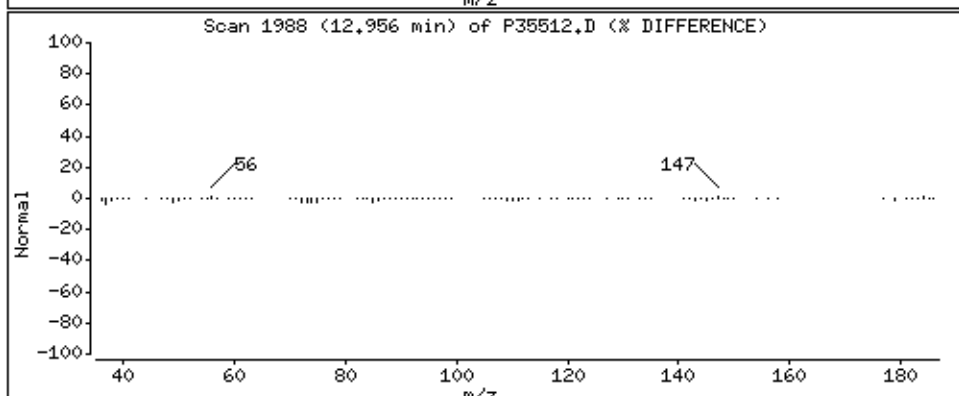
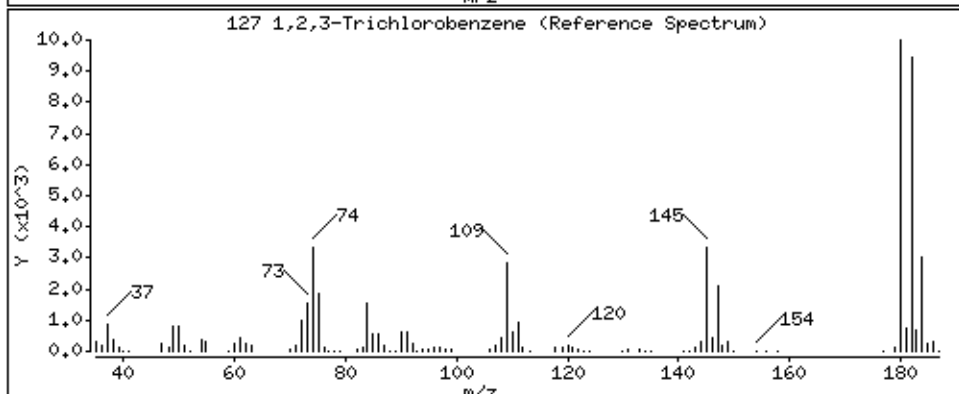
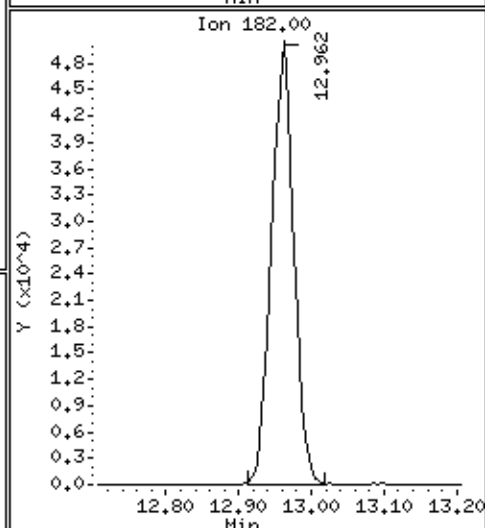
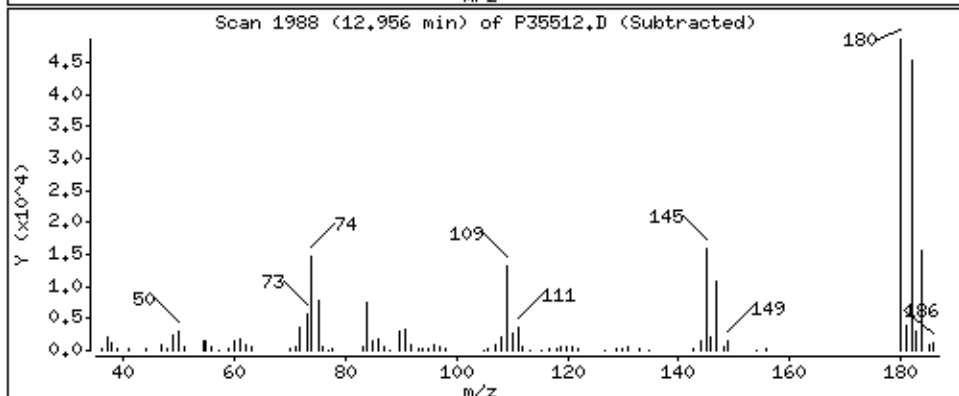
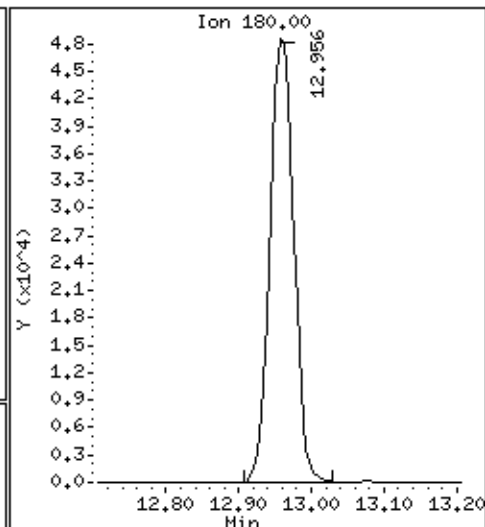
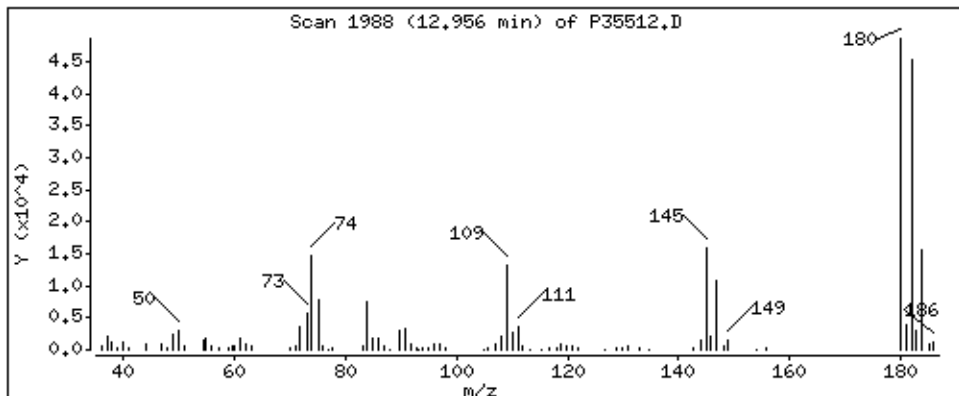
Column phase: RTX-624

Column diameter: 0,18

127 1,2,3-Trichlorobenzene

Concentration: 46,7 ug/L

Review Code:





Data File: \\v70wintarget\chem\70msv8.i\102021.b/P35512.D  
Injection Date: 20-OCT-2021 15:29  
Instrument: 70msv8.i  
Lab Sample ID: 1160404  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLANK

Lab Name: Pace Analytical - New York  
Date Received: \_\_\_\_\_  
Date Extracted: 10/20/2021 15:20  
Date Analyzed: 10/20/2021 15:20  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160712  
Lab File ID: 102021.B\B10653A.D  
Instrument: 70MSV9 Percent Moisture: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane (p-Dioxane)	<0.20	U

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10653a.D  
 Report Date: 20-Oct-2021 21:19

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\102021.b\B10653a.D  
 Lab Smp Id: 1160712 Client Smp ID: MB  
 Inj Date : 20-OCT-2021 15:20 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : 1160712,  
 Misc Info : 12761,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
 Meth Date : 20-Oct-2021 18:38 70msv9.i Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 3 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS		REVIEW C
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)		
* 45 Fluorobenzene (IS)	96	4.128	4.128	(1.000)	2162585	5.00000			
188 1,4-Dioxane	88	Compound Not Detected.							
\$ 90 4-Bromofluorobenzene (S)	95	8.174	8.180	(1.980)	673448	5.16841	5.17		
\$ 53 1,2-Dichlorobenzene-d4 (S)	152	9.668	9.668	(2.342)	584148	4.78023	4.78		

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10653a.D  
Report Date: 20-Oct-2021 21:19

Pace Analytical Services, Inc.

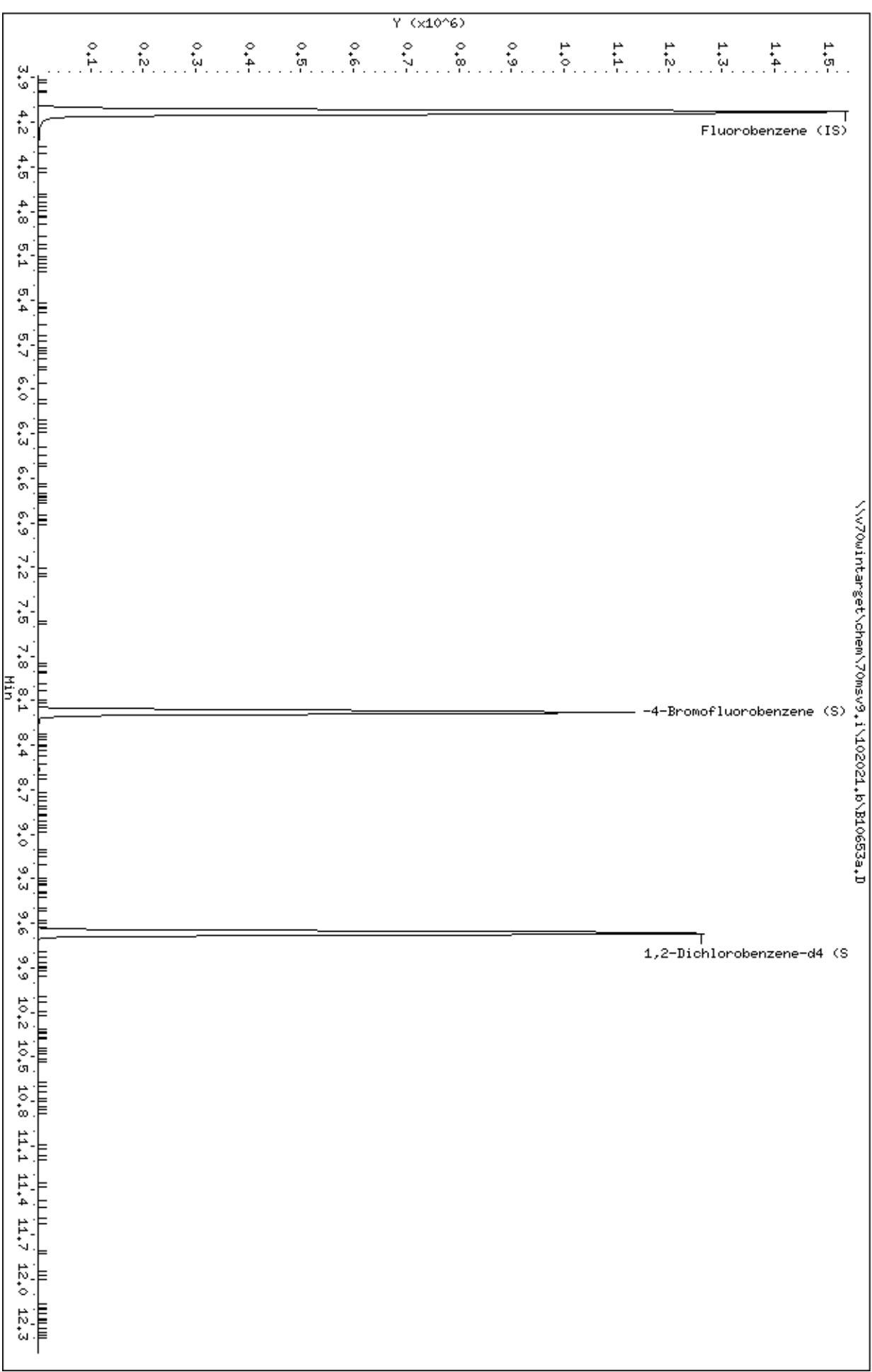
RECOVERY REPORT

Client Name: Client SDG: 102021.b  
Sample Matrix: Liquid Fraction: VOA  
Lab Smp Id: 1160712 Client Smp ID: MB  
Level: LOW Operator: BBL  
Data Type: MS DATA SampleType: BLANK  
SpikeList File: lcs.spk Quant Type: ISTD  
Sublist File: all.sub  
Method File: \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
Misc Info: 12761,

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 90 4-Bromofluorobenze	5.00	5.17	103.37	79-124
\$ 53 1,2-Dichlorobenzen	5.00	4.78	95.60	60-140

Data File: \\70win\interarget\chem\70msv9.1\102021.b\B10653a.D  
Date: 20-OCT-2021 15:20  
Client ID: HB  
Sample Info: 1160712,  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\102021.b/B10653a.D  
Injection Date: 20-OCT-2021 15:20  
Instrument: 70msv9.i  
Lab Sample ID: 1160712  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS

Lab Name: Pace Analytical - New York  
Date Received: \_\_\_\_\_  
Date Extracted: 10/20/2021 15:44  
Date Analyzed: 10/20/2021 15:44  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1160713  
Lab File ID: 102021.B\B10654A.D  
Instrument: 70MSV9 Percent Moisture: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane (p-Dioxane)	2.0	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10654a.D  
 Report Date: 20-Oct-2021 21:19

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\102021.b\B10654a.D  
 Lab Smp Id: 1160713 Client Smp ID: MBLCS  
 Inj Date : 20-OCT-2021 15:44 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : 1160713, 111395:0.25  
 Misc Info : 12761,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
 Meth Date : 20-Oct-2021 18:38 70msv9.i Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 4 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
						ON-COLUMN ( ug/L)	FINAL ( ug/L)	
* 45 Fluorobenzene (IS)	96	4.128	4.128	(1.000)	2175797	5.00000		
188 1,4-Dioxane	88	4.909	4.909	(1.189)	17138	2.04906	2.05	
\$ 90 4-Bromofluorobenzene (S)	95	8.179	8.180	(1.981)	587993	4.48518	4.48	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152	9.668	9.668	(2.342)	741591	6.03178	6.03	



Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10654a.D  
Report Date: 20-Oct-2021 21:19

Pace Analytical Services, Inc.

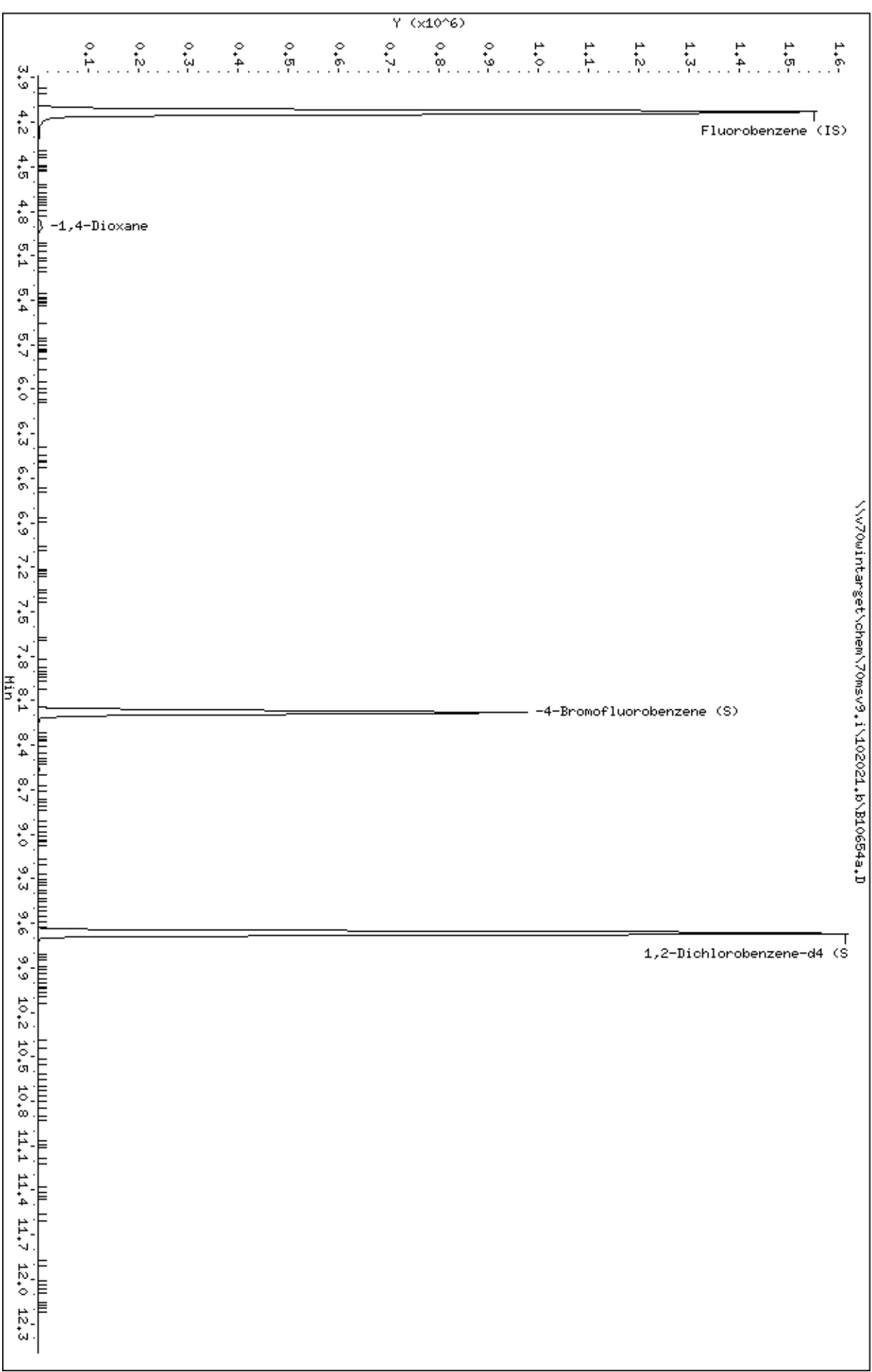
RECOVERY REPORT

Client Name: Client SDG: 102021.b  
Sample Matrix: Liquid Fraction: VOA  
Lab Smp Id: 1160713 Client Smp ID: MBLCS  
Level: LOW Operator: BBL  
Data Type: MS DATA SampleType: LCS  
SpikeList File: lcs.spk Quant Type: ISTD  
Sublist File: all.sub  
Method File: \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
Misc Info: 12761,

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 90 4-Bromofluorobenze	5.00	4.48	89.70	79-124
\$ 53 1,2-Dichlorobenzen	5.00	6.03	120.64	60-140

Data File: \\70win\intarget\chem\70msv9.1\102021.b\B10654a.D  
Date: 20-OCT-2021 15:44  
Client ID: HBLCS  
Sample Info: 1160713, 111395;0.25  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10654a.D

Date : 20-OCT-2021 15:44

Client ID: MBLCS

Instrument: 70msv9.i

Sample Info: 1160713, 111395;0,25

Purge Volume: 5.0

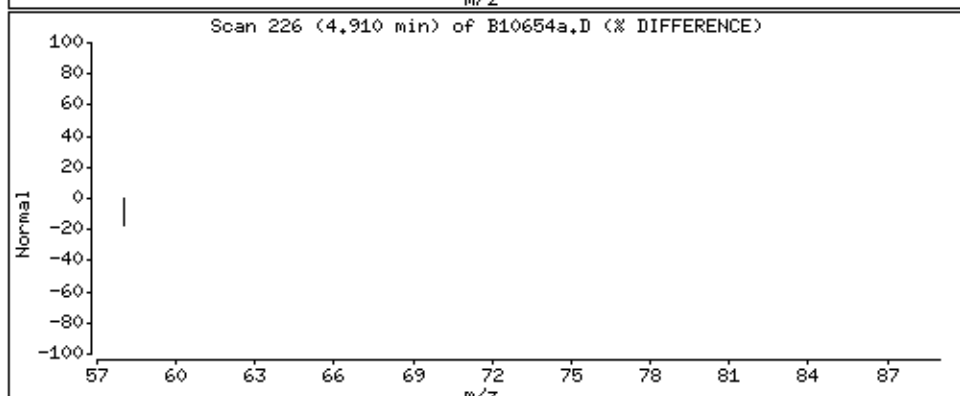
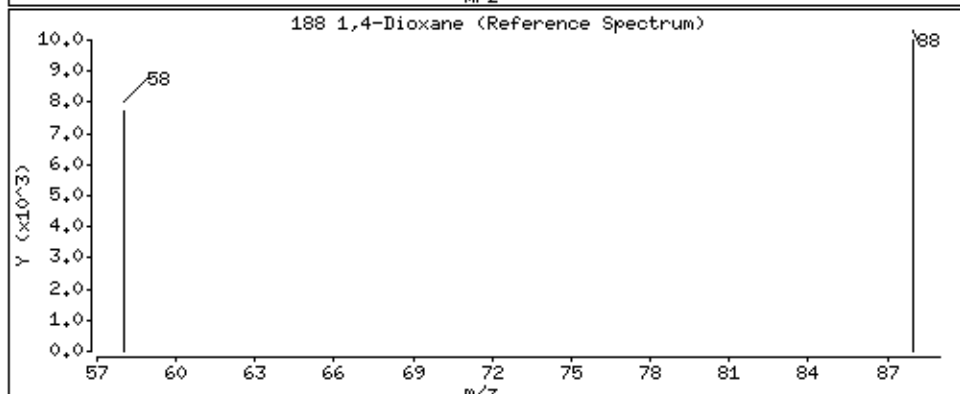
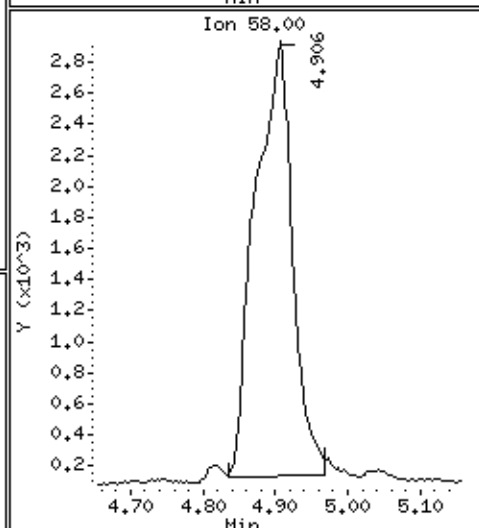
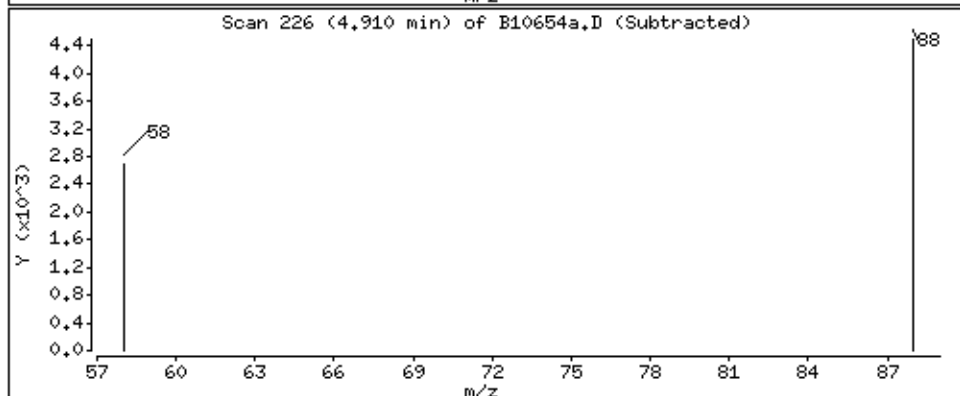
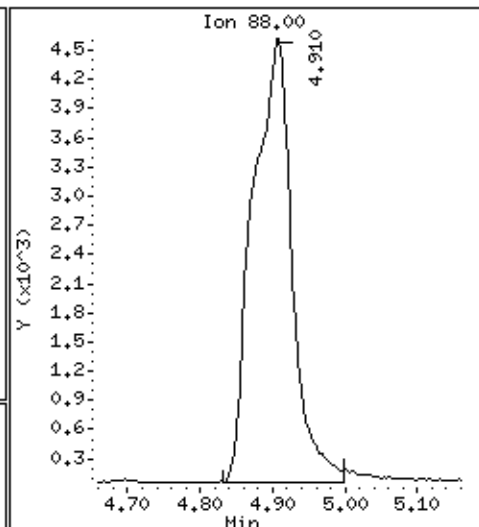
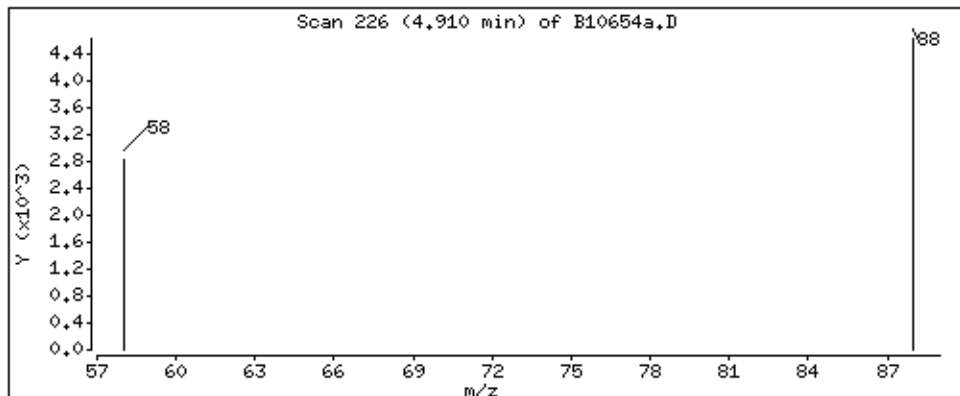
Operator: BBL

Column phase: RTX-624

Column diameter: 0,18

188 1,4-Dioxane

Concentration: 2,05 ug/L



Data File: \\v70wintarget\chem\70msv9.i\102021.b/B10654a.D  
Injection Date: 20-OCT-2021 15:44  
Instrument: 70msv9.i  
Lab Sample ID: 1160713  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MS

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 21:15  
Date Analyzed: 10/20/2021 21:15  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1161148  
Lab File ID: 102021.B\B10666.D  
Instrument: 70MSV9 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane (p-Dioxane)	90.8	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10666.D  
 Report Date: 20-Oct-2021 22:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\102021.b\B10666.D  
 Lab Smp Id: 1161148 Client Smp ID: MW-5A/AR MS/MSDMS  
 Inj Date : 20-OCT-2021 21:15 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : 1161148x5,111395:0.25  
 Misc Info : 12761,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
 Meth Date : 20-Oct-2021 21:27 70msv9.i Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 16 QC Sample: MS  
 Dil Factor: 5.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A  
 Processing Host: 70MSV3WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
							ON-COLUMN ( ug/L)	FINAL ( ug/L)	
* 45 Fluorobenzene (IS)	96		4.128	4.128	(1.000)	1909705	5.00000		
188 1,4-Dioxane	88		4.898	4.909	(1.187)	133269	18.1541	90.8	
\$ 90 4-Bromofluorobenzene (S)	95		8.174	8.180	(1.980)	810496	7.04386	7.04	(R)
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.342)	813835	7.54170	7.54	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10666.D  
Report Date: 20-Oct-2021 22:00

Pace Analytical Services, Inc.

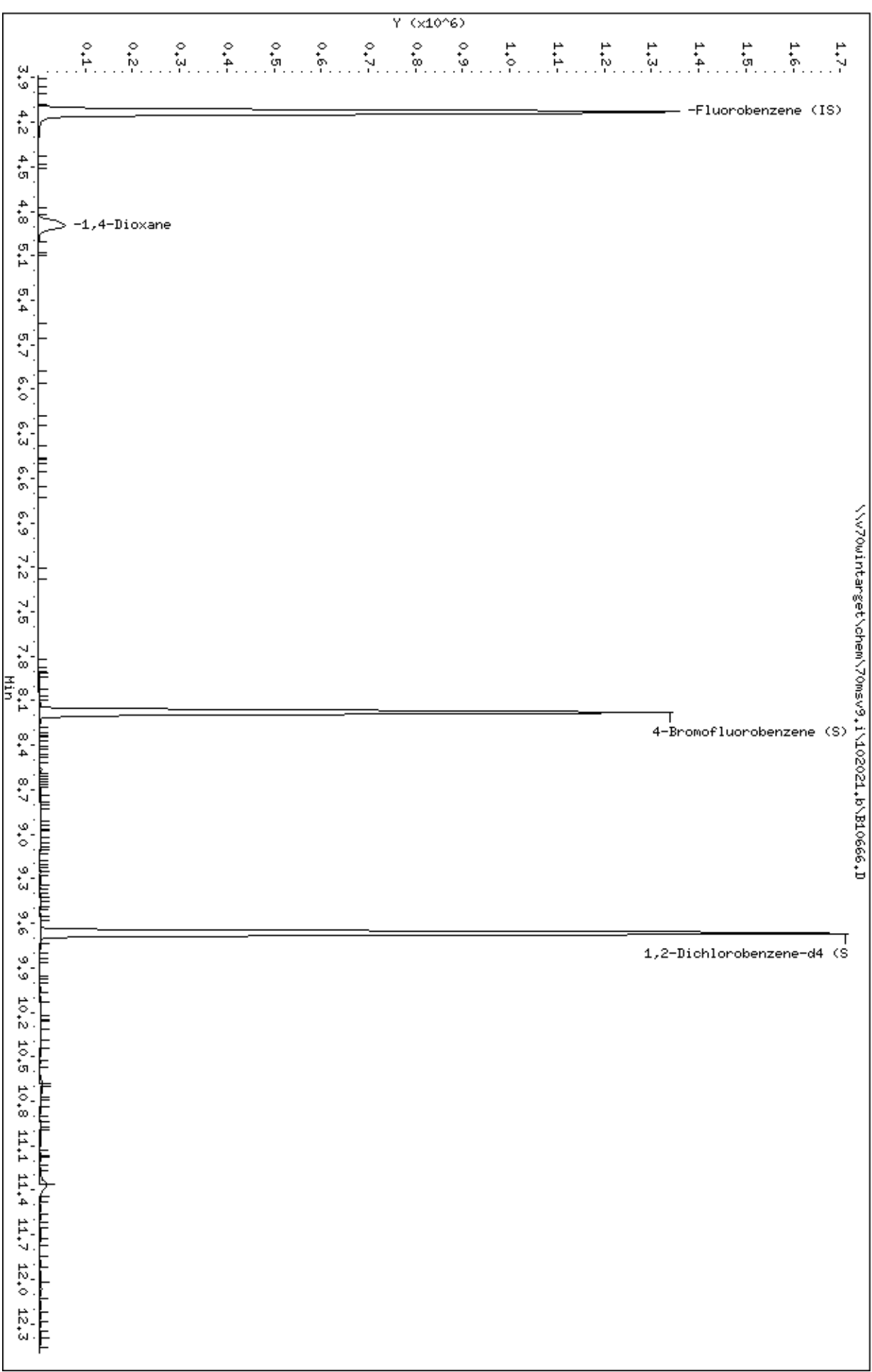
RECOVERY REPORT

Client Name: Leader Consulting S                      Client SDG: 70191351  
Sample Matrix: Liquid                                      Fraction: VOA  
Lab Smp Id: 1161148                                      Client Smp ID: MW-5A/AR MS/MSDMS  
Level: LOW    Operator: BBL  
Data Type: MS DATA                                      SampleType: MS  
SpikeList File: lcs.spk                                      Quant Type: ISTD  
Sublist File: all.sub  
Method File: \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
Misc Info: 12761,

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 90 4-Bromofluorobenze	5.00	7.04	140.88*	79-139
\$ 53 1,2-Dichlorobenzen	5.00	7.54	150.83	43-153

Data File: \\v70wintarget\chem\70msv9.1\102021.b\B10666.D  
Date : 20-OCT-2021 21:15  
Client ID: HM-54/AR HS/HSDHS  
Sample Info: 1161148x5,11139510.25  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18





Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10666.D

Date : 20-OCT-2021 21:15

Client ID: MW-5A/AR MS/MSDMS

Instrument: 70msv9.i

Sample Info: 1161148x5,111395;0,25

Purge Volume: 5,0

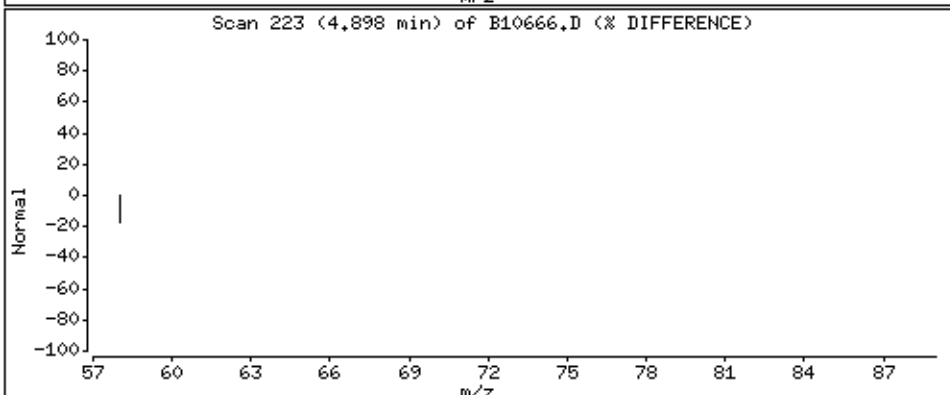
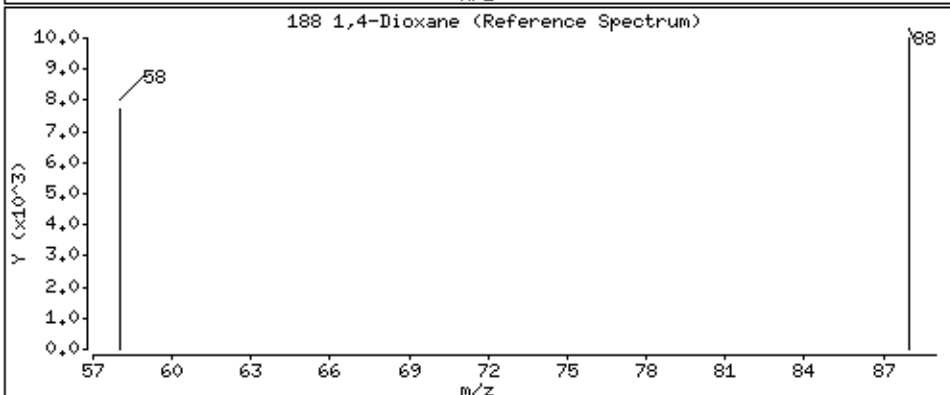
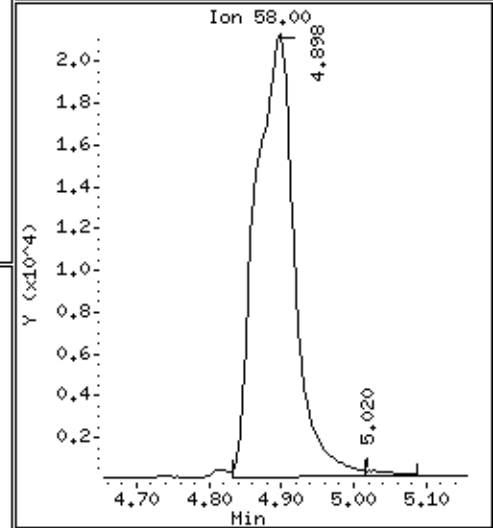
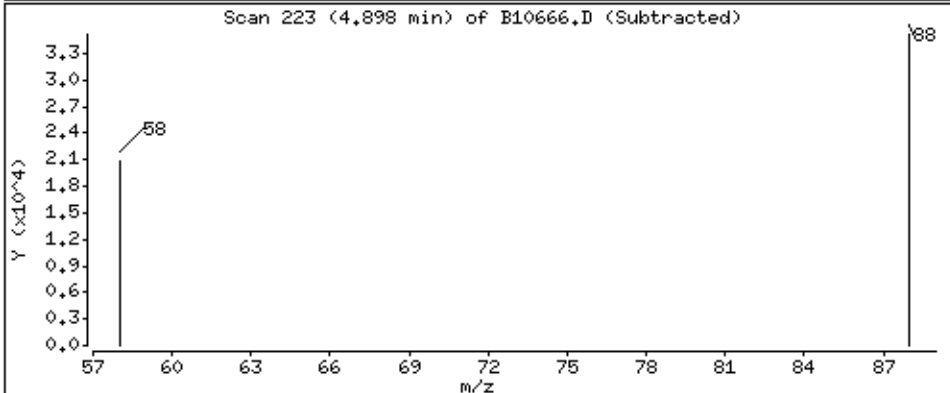
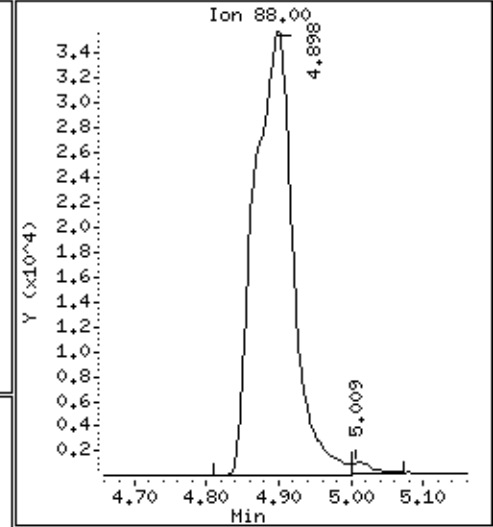
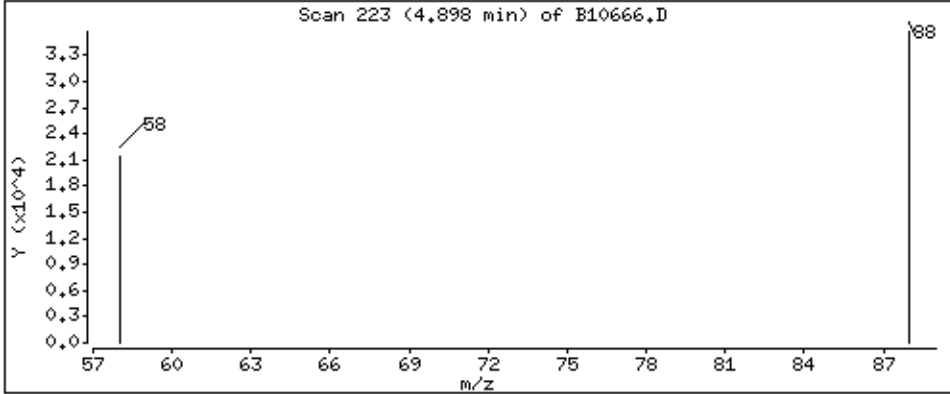
Operator: BBL

Column phase: RTX-624

Column diameter: 0,18

188 1,4-Dioxane

Concentration: 90,8 ug/L



Data File: \\v70wintarget\chem\70msv9.i\102021.b/B10666.D  
Injection Date: 20-OCT-2021 21:15  
Instrument: 70msv9.i  
Lab Sample ID: 1161148  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM I VOA-1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MSD

Lab Name: Pace Analytical - New York  
Date Received: 10/16/2021 10:30  
Date Extracted: 10/20/2021 21:39  
Date Analyzed: 10/20/2021 21:39  
Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5

Contract: VAILS GATE MANUFACTURING 10/15  
Matrix: Water SDG No.: 70191351  
Lab Sample ID: 1161149  
Lab File ID: 102021.B\B10667.D  
Instrument: 70MSV9 Percent Moisture:         

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
123-91-1	1,4-Dioxane (p-Dioxane)	87.3	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10667.D  
 Report Date: 20-Oct-2021 22:00

Pace Analytical Services, Inc.

EPA 8260C/D SIM

Data file : \\v70wintarget\chem\70msv9.i\102021.b\B10667.D  
 Lab Smp Id: 1161149 Client Smp ID: MW-5A/AR MS/MSDMSD  
 Inj Date : 20-OCT-2021 21:39 MS Autotune Date: 07-JAN-2019 14:3  
 Operator : BBL Inst ID: 70msv9.i  
 Smp Info : 1161149x5,111395:0.25  
 Misc Info : 12761,  
 Comment :  
 Method : \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
 Meth Date : 20-Oct-2021 21:27 70msv9.i Quant Type: ISTD  
 Cal Date : 14-SEP-2021 20:43 Cal File: B10407.D  
 Als bottle: 17 QC Sample: MSD  
 Dil Factor: 5.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: RC10A  
 Processing Host: 70MSV3WS10B6

Concentration Formula: Amt \* DF \* Uf \* 1/Vo \* CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		REVIEW C
							ON-COLUMN ( ug/L)	FINAL ( ug/L)	
* 45 Fluorobenzene (IS)	96		4.128	4.128	(1.000)	2255551	5.00000		
188 1,4-Dioxane	88		4.905	4.909	(1.188)	151380	17.4593	87.3	
\$ 90 4-Bromofluorobenzene (S)	95		8.174	8.180	(1.980)	880826	6.48132	6.48	
\$ 53 1,2-Dichlorobenzene-d4 (S)	152		9.668	9.668	(2.342)	858125	6.73282	6.73	

Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10667.D  
Report Date: 20-Oct-2021 22:00

Pace Analytical Services, Inc.

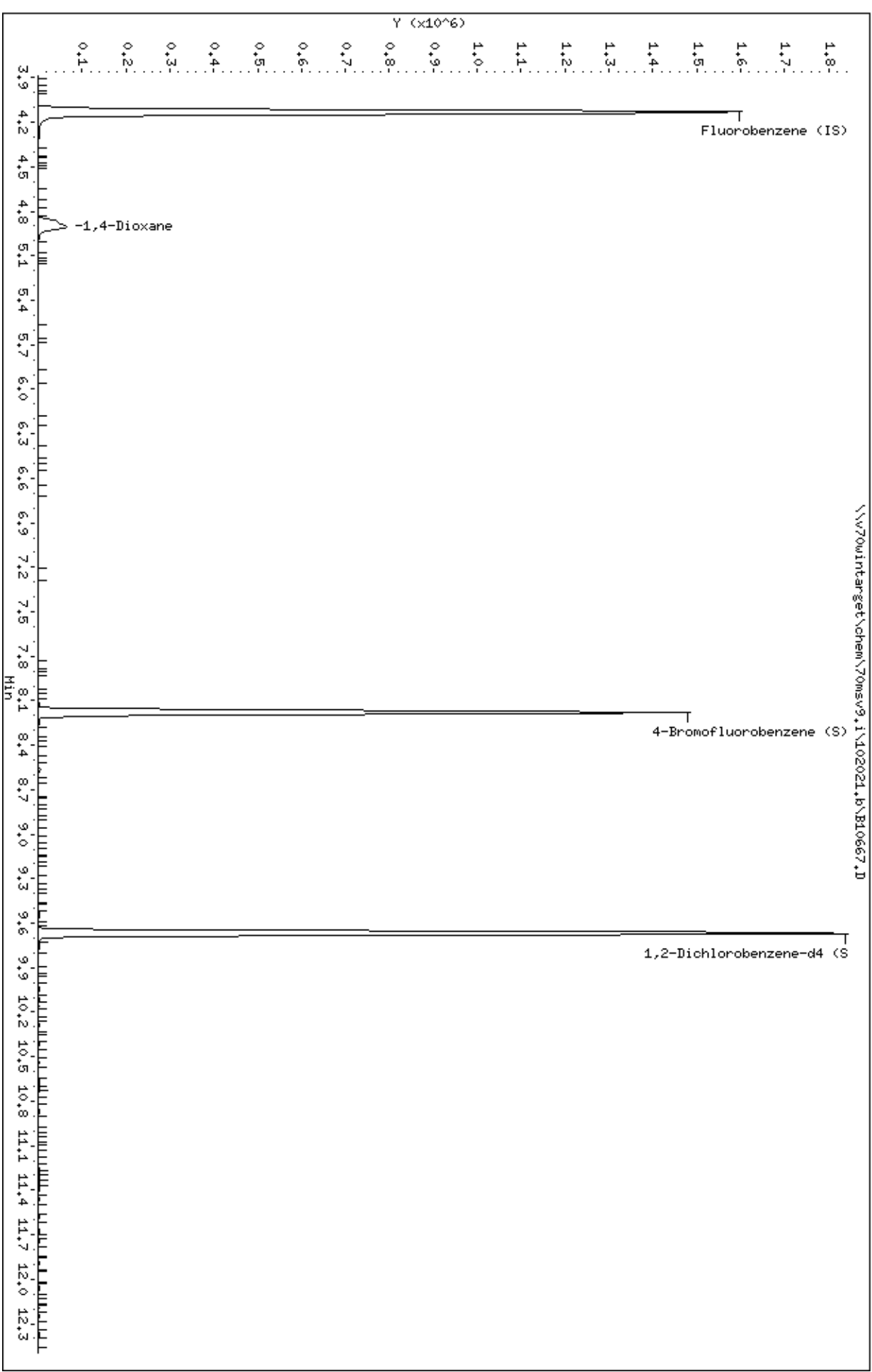
RECOVERY REPORT

Client Name: Client SDG: 70MSV9-102021  
Sample Matrix: Liquid Fraction: VOA  
Lab Smp Id: 1161149 Client Smp ID: MW-5A/AR MS/MSDMSD  
Level: LOW Operator: BBL  
Data Type: MS DATA SampleType: MSD  
SpikeList File: lcs.spk Quant Type: ISTD  
Sublist File: all.sub  
Method File: \\v70wintarget\chem\70msv9.i\102021.b\14D\_091421\_SIM.m  
Misc Info: 12761,

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 90 4-Bromofluorobenze	5.00	6.48	129.63	79-139
\$ 53 1,2-Dichlorobenzen	5.00	6.73	134.66	43-153

Data File: \\w70wintarget\chem\70msv9.1\102021.6\B10667.D  
Date: 20-OCT-2021 21:39  
Client ID: HM-54/AR HS/HSDHSD  
Sample Info: 1161149x5,11139510.25  
Purge Volume: 5.0  
Column phase: RTX-624

Instrument: 70msv9.1  
Operator: BBL  
Column diameter: 0.18



Data File: \\v70wintarget\chem\70msv9.i\102021.b\B10667.D

Date : 20-OCT-2021 21:39

Client ID: MW-5A/AR MS/MSDMSD

Instrument: 70msv9.i

Sample Info: 1161149x5,111395;0,25

Purge Volume: 5.0

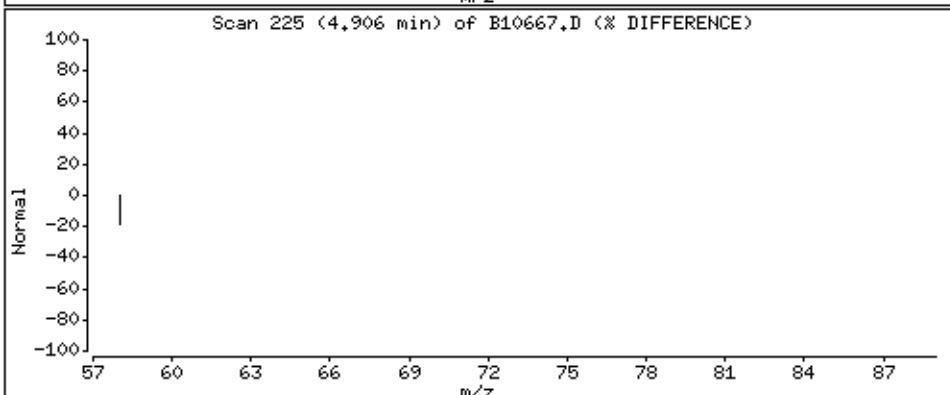
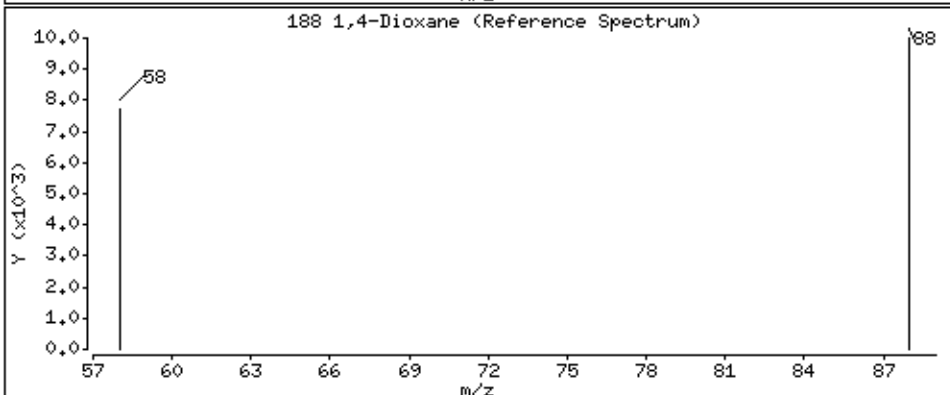
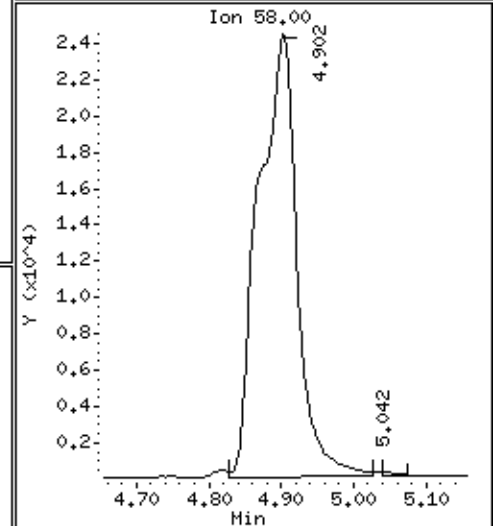
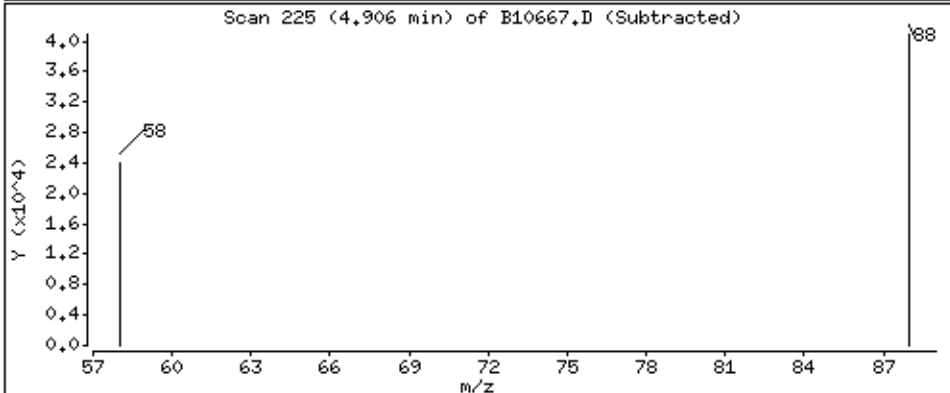
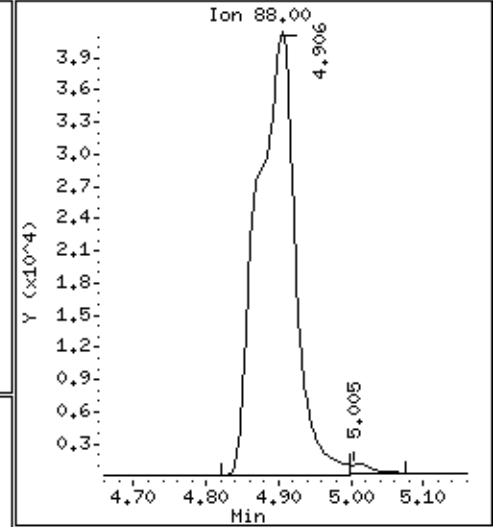
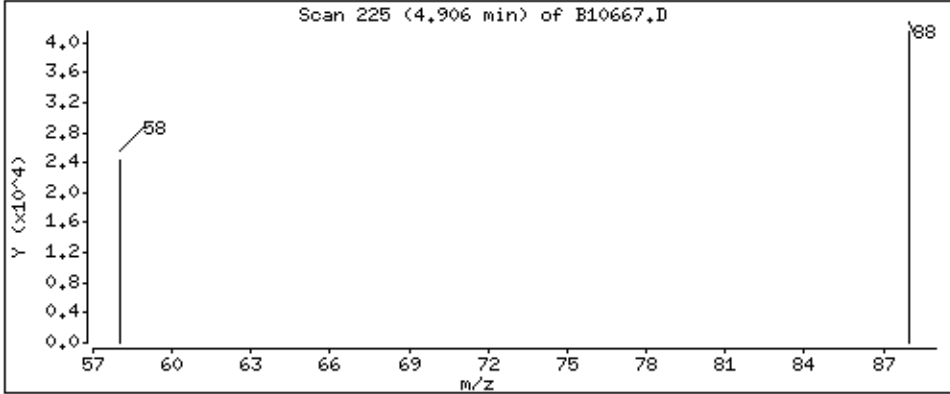
Operator: BBL

Column phase: RTX-624

Column diameter: 0,18

188 1,4-Dioxane

Concentration: 87,3 ug/L



Data File: \\v70wintarget\chem\70msv9.i\102021.b/B10667.D  
Injection Date: 20-OCT-2021 21:39  
Instrument: 70msv9.i  
Lab Sample ID: 1161149  
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE



INSTRUMENT RUN LOG  
Pace Analytical Services, Inc.

Instrument: 70msv8.i  
 Column RTX-624 20m X 0.18mm Helium      Method: SW846-8260C/D/EPA 624.1  
 Misc. Prep Info [L]:  
 ISTD lot:      Surr. lot: 113080:5  
 Lot:  
 Tune std: \_\_\_\_\_      Cal. std: \_\_\_\_\_

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method/Sublist	Date	Time	Oper	Comments
1/P31432.D	TUNE, 113080:1	L/11823	BFB	1	DBFB/all	6/09/21	15:37	BBL	✓
1/P31433.D	CAL1, 113064:1	L/11823	CALIB_1	1	060921_8260W/8	6/09/21	16:08	BBL	✓
1/P31434.D	CAL2, 113065:1	L/11823	CALIB_2	1	060921_8260W/8	6/09/21	16:28	BBL	✓
1/P31435.D	CAL3, 113085:1	L/11823	CALIB_3	1	060921_8260W/8	6/09/21	16:47	BBL	✓
1/P31436.D	CAL4, 113067:1	L/11823	CALIB_4	1	060921_8260W/8	6/09/21	17:07	BBL	✓
1/P31437.D	CAL5, 113068:1	L/11823	CALIB_5	1	060921_8260W/8	6/09/21	17:26	BBL	✓
1/P31438.D	CAL6, 113069:1	L/11823	CALIB_6	1	060921_8260W/8	6/09/21	17:45	BBL	✓
1/P31439.D	CAL7, 113070:1	L/11823	CALIB_7	1	060921_8260W/8	6/09/21	18:05	BBL	✓
1/P31440.D	CAL8, 113071:1	L/11823	CALIB_8	1	060921_8260W/8	6/09/21	18:24	BBL	✓
1/P31441.D	ICV, 113084:1	L/11823	CCALIB_6	1	060921_8260W/8	6/09/21	19:14	BBL	✓

Check Maintenance Items Performed:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Changed septum             | <input type="checkbox"/> Clipped column             | <input type="checkbox"/> Changed column (lot # _____)     |
| <input type="checkbox"/> Cleaned liner              | <input type="checkbox"/> Changed trap (lot # _____) | <input type="checkbox"/> Other minor parts replaced _____ |
| <input type="checkbox"/> Replaced/Cleaned gold seal | <input type="checkbox"/> Cleaned MS source          | <input type="checkbox"/> No maintenance performed today   |

Additional Comments:

Run Order Verified: IKB 6/10/2021

File Path 1: \\v70wintarget\chem\70msv8.i\060921.b  
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one  
 Report Date: 21:34 06/09/2021

Reviewed By/Date: PKJ Page: 1 of 1  
6/9/21

INSTRUMENT RUN LOG  
Pace Analytical Services, Inc.

Instrument: 70msv8.i  
 Column RTX-624 20m X 0.18mm Helium Method: SW846-8260C/D/EPA 624.1  
 Misc. Prep Info [L]:  
 Misc. Prep Info [S]:  
 ISTD lot: Surr. lot: 116927:5  
 Lot:  
 Tune std: \_\_\_\_\_ Cal. std: \_\_\_\_\_

Path/File	Smp Info	Mtrx/Batch	Type	DF	<i>vial P#</i>	Method/Sublist	Date	Time	Oper	Comments
1/P35488.D	TUNE, 119751:1	L/11823	BFB	1		DBFB/all	10/20/21	05:41	KGG	
1/P35489.D	CCV, 121203:1	L/11823	CCALIB_6	1		060921_8260W/8	10/20/21	07:07	KGG	
1/P35490.D	1160398,	L/12754	BLANK	1	< 2	060921_8260W/T	10/20/21	08:12	KGG	
1/P35490A.D	1160401	L/12755	BLANK	1		060921_8260W/8	10/20/21	08:12	KGG	
1/P35491.D	1160399, 120466:	L/12754	LCS	1		060921_8260W/T	10/20/21	08:37	KGG	
1/P35491A.D	1160402 120466:1	L/12755	LCS	1		060921_8260W/8	10/20/21	08:37	KGG	
1/P35492.D	1159457X5,	S/12754	SAMPLE	5	5	060921_8260W/T	10/20/21	09:03	KGG	
1/P35493.D	70191210003,	L/12755	SAMPLE	1	i < 2	060921_8260W/8	10/20/21	09:22	KGG	
1/P35494.D	70191210001,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	09:41	KGG	
1/P35495.D	70191351004,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	10:00	KGG	
1/P35496.D	70191351001,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	10:20	KGG	
1/P35497.D	70191351002,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	10:39	KGG	
1/P35498.D	70191351003,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	10:58	KGG	
1/P35499.D	70191567001,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	11:18	KGG	
1/P35500.D	70191567003,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	11:37	KGG	
1/P35501.D	70191567005,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	11:56	KGG	
1/P35502.D	70191567007,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	12:16	KGG	
1/P35503.D	70191567009,	L/12755	SAMPLE	1		060921_8260W/8	10/20/21	12:35	KGG	
1/P35504.D	70191341011,	L/12755	SAMPLE	1		060921_8260W/S	10/20/21	12:54	KGG	
1/P35505.D	70191341009X10,	L/12746	SAMPLE	10	2	060921_8260W/S	10/20/21	13:14	KGG	
1/P35506.D	70191039001X5,	S/12754	SAMPLE	5	i 5	060921_8260W/T	10/20/21	13:33	KGG	
1/P35507.D	70191106009X5,	S/12754	SAMPLE	5		060921_8260W/T	10/20/21	13:52	KGG	
1/P35508.D	70191105001X5,	S/12754	SAMPLE	5		060921_8260W/T	10/20/21	14:11	KGG	
1/P35509.D	70191044001X5,	L/12754	SAMPLE	5		060921_8260W/8	10/20/21	14:30	KGG	
1/P35510.D	70191293001X5,	L/12748	SAMPLE	5	2	060921_8260W/8	10/20/21	14:50	KGG	
1/P35511.D	1160403, 120466:	L/12755	MS	1	2 < 2	060921_8260W/8	10/20/21	15:09	KGG	
1/P35512.D	1160404, 120466:	L/12755	MSD	1	3	060921_8260W/8	10/20/21	15:29	KGG	

*pH # 236020*

Check Maintenance Items Performed:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Changed septum             | <input type="checkbox"/> Clipped column             | <input type="checkbox"/> Changed column (lot # _____)     |
| <input type="checkbox"/> Cleaned liner              | <input type="checkbox"/> Changed trap (lot # _____) | <input type="checkbox"/> Other minor parts replaced _____ |
| <input type="checkbox"/> Replaced/Cleaned gold seal | <input type="checkbox"/> Cleaned MS source          | <input type="checkbox"/> No maintenance performed today   |

Additional Comments:

Run Order Verified: *OKS 10/26/2021*

File Path 1: \\v70wintarget\chem\70msv8.i\102021.b  
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one  
 Report Date: 11:12 10/21/2021

Reviewed By/Date: *MTW* Page: 1 of 1  
*10/21/21*

INSTRUMENT RUN LOG  
Pace Analytical Services, Inc.

Instrument: 70msv9.i  
 Column RTX-624 20m X 0.18mm Helium  
 Misc. Prep Info [L]:  
 ISTD lot:  
 Lot:  
 Tune std: \_\_\_\_\_

Method: EPA 8260C/D SIM  
 Surr. lot: 117365:5  
 Cal. std: \_\_\_\_\_

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method/Sublist	Date	Time	Oper	Comments
1/B10400.D	TUNE, 92788:1	L/12496	BFB	1	DBFB/all	9/14/21	17:39	BBL	✓
1/B10401.D	CAL1, 118830:1	L/12496	CALIB_1	1	14D_091421_SIM	9/14/21	18:04	BBL	✓
1/B10402.D	CAL2, 118831:1	L/12496	CALIB_2	1	14D_091421_SIM	9/14/21	18:27	BBL	✓
1/B10403.D	CAL3, 118832:1	L/12496	CALIB_3	1	14D_091421_SIM	9/14/21	18:51	BBL	✓
1/B10404.D	CAL4, 118833:1	L/12496	CALIB_4	1	14D_091421_SIM	9/14/21	19:14	BBL	✓
1/B10405.D	CAL5, 118834:1	L/12496	CALIB_5	1	14D_091421_SIM	9/14/21	19:56	BBL	✓
1/B10406.D	CAL6, 118835:1	L/12496	CALIB_6	1	14D_091421_SIM	9/14/21	20:20	BBL	✓
1/B10407.D	CAL7, 118836:1	L/12496	CALIB_7	1	14D_091421_SIM	9/14/21	20:43	BBL	✓
1/B10408.D	ICV, 118792:1	L/12496	CCALIB_4	1	14D_091421_SIM	9/14/21	21:12	BBL	✓
1/B10409.D	1137345,	L/12497	BLANK	1	14D_091421_SIM	9/14/21	21:35	BBL	✓
1/B10410.D	70179080009,	L/12497	SAMPLE	1	14D_091421_SIM	9/14/21	21:59	BBL	✓
1/B10411.D	1137346, 111395:	L/12497	LCS	1	14D_091421_SIM	9/14/21	22:22	BBL	✓
1/B10412.D	1fb2	L/	SAMPLE	1	14D_091421_SIM	9/14/21	22:46	BBL	X
1/B10413.D	1fb3	L/	SAMPLE	1	14D_091421_SIM	9/14/21	23:09	BBL	
1/B10414.D	1fb4	L/	SAMPLE	1	14D_091421_SIM	9/14/21	23:33	BBL	
1/B10415.D	1fb5	L/	SAMPLE	1	14D_091421_SIM	9/14/21	23:56	BBL	

PH 15 # 236020

Check Maintenance Items Performed:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Changed septum             | <input type="checkbox"/> Clipped column             | <input type="checkbox"/> Changed column (lot # _____)     |
| <input type="checkbox"/> Cleaned liner              | <input type="checkbox"/> Changed trap (lot # _____) | <input type="checkbox"/> Other minor parts replaced _____ |
| <input type="checkbox"/> Replaced/Cleaned gold seal | <input type="checkbox"/> Cleaned MS source          | <input type="checkbox"/> No maintenance performed today   |

Additional Comments:

Run Order Verified:                     

GKB 9/20/2021

File Path 1: \\v70wintarget\chem\70msv9.i\091421.b  
 Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one  
 Report Date: 14:30 09/15/2021

Reviewed By/Date:                      Page: 1 of 1

BBI  
9/15/21

INSTRUMENT RUN LOG  
Pace Analytical Services, Inc.

Instrument: 70msv9.i  
Column RTX-624 20m X 0.18mm Helium  
Misc. Prep Info [L]:  
ISTD lot:  
Lot:  
Tune std: \_\_\_\_\_

Method: EPA 8260C/D SIM  
Surr. lot: 117365:5  
Cal. std: \_\_\_\_\_

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method/Sublist	Date	Time	Oper	Comments
1/B10651.D	TUNE, 92788:1	L/12496	BFB	1	DBFB/all	10/20/21	14:26	BBL	✓
1/B10652.D	CCV, 121245:1	L/12496	CCALIB_4	1	14D_091421_SIM	10/20/21	14:54	BBL	✓
1/B10653.D	1160709,	L/12760	BLANK	1	14D_091421_SIM	10/20/21	15:20	BBL	✓
1/B10653a.D	1160712,	L/12761	BLANK	1	14D_091421_SIM	10/20/21	15:20	BBL	✓
1/B10654.D	1160710, 111395:	L/12760	LCS	1	14D_091421_SIM	10/20/21	15:44	BBL	✓
1/B10654a.D	1160713, 111395:	L/12761	LCS	1	14D_091421_SIM	10/20/21	15:44	BBL	✓
1/B10655.D	70189648010,	L/12760	SAMPLE	1	14D_091421_SIM	10/20/21	16:31	BBL	✓
1/B10656.D	70191066001,	L/12760	SAMPLE	1	14D_091421_SIM	10/20/21	16:58	BBL	✓
1/B10657.D	70191537001,	L/12760	SAMPLE	1	14D_091421_SIM	10/20/21	17:22	BBL	✓
1/B10658.D	70191351001,	L/12761	SAMPLE	1	14D_091421_SIM	10/20/21	17:45	BBL	X 1:5
1/B10659.D	70191351002,	L/12761	SAMPLE	1	14D_091421_SIM	10/20/21	18:09	BBL	X 1:10
1/B10660.D	70191351003,	L/12761	SAMPLE	1	14D_091421_SIM	10/20/21	18:32	BBL	✓
1/B10661.D	70191351001x5,	L/12761	SAMPLE	5	14D_091421_SIM	10/20/21	18:52	BBL	X
1/B10662.D	70191351002x10,	L/12761	SAMPLE	10	14D_091421_SIM	10/20/21	19:16	BBL	✓
1/B10663.D	70191351003,	L/12761	SAMPLE	1	14D_091421_SIM	10/20/21	19:39	BBL	X
1/B10664.D	70191066001,	L/12760	SAMPLE	1	14D_091421_SIM	10/20/21	20:03	BBL	X
1/B10665.D	70191351001x5,	L/12761	SAMPLE	5	14D_091421_SIM	10/20/21	20:45	BBL	✓
1/B10666.D	1161148x5, 111395	L/12761	MS	5	14D_091421_SIM	10/20/21	21:15	BBL	✓
1/B10667.D	1161149x5, 111395	L/12761	MSD	5	14D_091421_SIM	10/20/21	21:39	BBL	✓

PH lot # 236020

Check Maintenance Items Performed:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Changed septum             | <input type="checkbox"/> Clipped column             | <input type="checkbox"/> Changed column (lot # _____)     |
| <input type="checkbox"/> Cleaned liner              | <input type="checkbox"/> Changed trap (lot # _____) | <input type="checkbox"/> Other minor parts replaced _____ |
| <input type="checkbox"/> Replaced/Cleaned gold seal | <input type="checkbox"/> Cleaned MS source          | <input type="checkbox"/> No maintenance performed today   |

Additional Comments:

Run Order Verified: GKB 10/21/2021

File Path 1: \\v70wintarget\chem\70msv9.i\102021.b  
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one  
Report Date: 22:02 10/20/2021

Reviewed By/Date: BBI Page: 1 of 1

10/20/21

# **Attachment B**

## **Indoor Air Data**



**Centek Laboratories TO-15 Package Review Checklist**

**Client:** Leader Consulting Service: **Project:** Valls Gate Mfg. **C2102025**

		<u>YES</u>	<u>NO</u>	<u>NA</u>
Analytical Results	Present and Complete	/	—	—
TIC's Present	Present and Complete	/	—	—
	Holdin Times Met	/	—	—

Comments:

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Chain of Custody	Present and Complete	/	—	—
Surrogate	Present and Complete	/	—	—
	Recoveries within Limits	/	—	—
	Sample(s) reanalyzed	—	—	/
Internal Standards	Present and Complete	/	—	—
Recovery	Recoveries within Limits	/	—	—
	Sample(s) reanalyzed	—	—	/

Comments:

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Lab Control Sample (LCS)	Present and Complete	/	—	—
	Recoveries within Limits	/	—	—
Lab Control Sample Dupe (LCSD)	Present and Complete	/	—	—
	Recoveries within Limits	—	/	—
MS/MSD	Present and Complete	/	—	—
	Recoveries within Limits	/	—	—

Comments:

*\* SEE CASE NARRATIVE*

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Sample Raw Data	Present and Complete	/	—	—
	Spectra present	/	—	—

Comments:

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**Centek Laboratories TO-15 Package Review Checklist**



**Client:** Leader Consulting Service **Project:** Vails Gate Mfg. **SDG:** C2102025

		<u>YES</u>	<u>NO</u>	<u>NA</u>
<b><u>Standards Data</u></b>				
Initial Calibration	Present and Complete	/	—	—
	Calibration meets criteria	/	—	—
Continuing Calibration	Present and Complete	/	—	—
	Calibration meets criteria	/	—	—
Standards Raw Data	Present and Complete	/	—	—

**Comments:**

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**Raw Quality Control Data**

Tune Criteria Report	Present and Complete	/	—	—
Method Blank Data	MB Results <PQL	/	—	—
	Associated results flagged "B"	—	—	/
LCS Sample Data	Present and Complete	/	—	—
LCSD Sample Data	Present and Complete	/	—	—
MS/MSD Sample Data	Present and Complete	/	—	—

**Comments:**

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**Logbooks**

Injection Log		/	—	—
Standards Log		/	—	—
Can Cleaning Log		/	—	—
Calculation Sheet		/	—	—
IDL's		/	—	—
Canister Order Form		/	—	—
Sample Tracking Form		/	—	—

**Additional Comments:**

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Section Supervisor: Wendy Delt

Date: 3/1/2021

QC Supervisor: [Signature]

Date: 3/1/21



## CENTEK LABORATORIES, LLC

143 Midler Park Drive \* Syracuse, NY 13206

Phone (315) 431-9730 \* Emergency 24/7 (315) 416-2752

NYSDOH ELAP

Certificate No. 11830

### Analytical Report

Brian Demme  
Leader Consulting Services  
2813 Wehrle Drive, Suite 1  
Williamsville, NY 14221

Monday, February 22, 2021  
Order No.: C2102025

TEL: 716-565-0963

FAX

RE: Vails Gate Manufacturing

Dear Brian Demme:

Centek Laboratories, LLC received 3 sample(s) on 2/15/2021 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Centek Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.



This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,



William Dobbin  
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, tetrahydrofuran, 4-PCH, sulfur derived and silicon series compounds.

#### Centek Laboratories, LLC Terms and Conditions

##### Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website [www.CentekLabs.com](http://www.CentekLabs.com). Samples received after 3:00pm are considered to be a part of the next day's business.

##### Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

##### Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

##### Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

##### Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

### Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

### Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

### Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

### Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

### Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of

liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

## ASP CAT B DELIVERABLE PACKAGE Table of Contents

1. Package Review Check List
2. Case Narrative
  - a. Corrective actions
3. Sample Summary Form
4. Sample Tracking Form
5. Bottle Order
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  - a. Qc Summary Report
  - b. IS Summary Report
  - c. MB Summary Report
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  - f. IDL's
  - g. Calculation
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  - a. Form 1 (if requested) TIC's
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9. Standards Data
  - a. Initial Calibration with Quant Report
  - b. Continuing Calibration with Quant Report
10. Raw Data
  - a. Tuning Data
11. Raw QC Data
  - a. Method Blank
  - b. LCS
  - c. MS/MSD
12. Log Books
  - a. Injection Log Book
  - b. Standards Log Book
  - c. QC Canister Log Book



**CEN TEK LABORATORIES, LLC**

**Date:** 01-Mar-21

**CLIENT:** Leader Consulting Services

**Project:** Vails Gate Manufacturing

**Lab Order:** C2102025

## **CASE NARRATIVE**

---

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg ( $\pm 2$ ", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg ( $\pm 1$ ", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,  $\pm 1$ ". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

See Corrective Action: [4253] CC did not meet criteria.

See Corrective Action: [4254] LCSD did not meet criteria due to in house limits

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 15-Feb-21

Corrective Action Report ID: 4253

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: CC did not meet criteria.

Description of Nonconformance Root/Cause(s): Continuing calibration did not meet criteria on 2/15/21 for benzyl chloride. The compounds were more sensitive. The compounds in question were not detected in the associated samples. The results would have been biased high.

Description of Corrective Action w/Proposed C.A.: The sample results should be considered valid, since the compounds of interest were not detected and would have been considered biased high. No corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 16-Feb-21

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: Recalibrate the system ASAP if compound remains outside criteria. Monitoring of all quality control remains post initial calibration. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.:

*William Dobbin*

William Dobbin

Close Date: 17-Feb-21

QA Officer Approval:

*Nick Scala*

Nick Scala

QA Date: 17-Feb-21

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 15-Feb-21

Corrective Action Report ID: 4254

Initiated By: Russell Pellegrino

Department: MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria due to in house limits

Description of Nonconformance Root/Cause(s): ALCS1UGD-021521 did not meet criteria for several compounds % recoveries. All other QC required met criteria. The compounds that did not meet criteria were not needed for the associated sample dilutions. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister. The in house criteria was just updated and all compounds that failed have very tight limits. However all other criteria was met

Description of Corrective Action w/Proposed C.A.: Since the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister and all other QC required met criteria, then continue with analysis. If results continue outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino

Completion Date: 16-Feb-21

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: When enough data points are collected update the in house criteria. If results continue outside established criteria then recalibrate the system. Perform new stock LCS. Monitor all quality control to meet established criteria. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.:

*William Dobbin*

Close Date: 17-Feb-21

William Dobbin

QA Officer Approval:

*Nick Scala*

QA Date: 17-Feb-21

Nick Scala





Date: 01-Mar-21



**CENTEK LABORATORIES, LLC**

**CLIENT:** Leader Consulting Services  
**Project:** Vails Gate Manufacturing  
**Lab Order:** C2102025

**Work Order Sample Summary**

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C2102025-001A	Summa #1 Dup	483, 1345	2/9/2021	2/15/2021
C2102025-002A	Summa (MS/MSD)	210, 1345	2/9/2021	2/15/2021
C2102025-003A	Trip Blank Summa	215	2/9/2021	2/15/2021



CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name: LEADER CONSULTING

Date and Time Received

2/15/2021

Work Order Number C2102025

Received by: RG

Checklist completed by

*Robin Jushlan* 2/15/21  
Signature Date

Reviewed by

*WD* 2/15/2021  
Initials Date

Matrix:

Carrier name: UPS - Ground

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- COC signed when relinquished and received? Yes  No
- COC agrees with sample labels? Yes  No
- COC completely filled out? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No
- Water - VOA vials have zero headspace? Yes  No VOA vials submitted  Yes  No
- Water - pH acceptable upon receipt? Yes  No

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

QC'd By: \_\_\_\_\_

DATE: \_\_\_\_\_

01-Mar-21

**Centek Laboratories, LLC**

**Lab Order:** C2102025  
**Client:** Leader Consulting Services  
**Project:** Vails Gate Manufacturing

**DATES REPORT**

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	YCLP Date	Prep Date	Analysis Date
C2102025-001A	Summa #1 Dup	2/9/2021	Air	1ug/m3 w/ 0.2ug/M3 CT-TCE-VG-DCE-1,EDCE			2/16/2021
C2102025-002A	Summa (MS/MSD)			1ug/m3 w/ 0.2ug/M3 CT-TCE-VG-DCE-1,EDCE			2/15/2021
C2102025-003A	Trip Blank Summa			1ug/m3 w/ 0.2ug/M3 CT-TCE-VG-DCE-1,EDCE			2/16/2021
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VG-DCE-1,EDCE			2/16/2021
				1ug/m3 w/ 0.2ug/M3 CT-TCE-VG-DCE-1,EDCE			2/15/2021



**CENTEK LABORATORIES, LLC**

*Air Quality Testing - It's a Gas*

143 Midler Park Drive \* Syracuse, NY 13206  
 TEL: 315-431-9730 \* FAX: 315-431-9731

**CANISTER ORDER**

**8720**

01-Mar-21

**SHIPPED TO:**

Company: Leader Consulting Services  
 Contact: Brian Demme  
 Address: 2813 Wehrle Drive, Suite 1  
 Williamsville, NY 14221  
 Phone: 716-565-0963  
 Quote ID: 0  
 Project:  
 PO:

Submitted By:

MadeBy: rjp

Ship Date: 2/3/2021

VIA: UPS - Ground

Due Date: 2/4/2021

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DC	3

Can / Reg ID	Description
--------------	-------------

Comments: 1 1.4 L w/ dupe @ 8hr + TB WAC 092520 A-D

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-001A

**Client Sample ID:** Summa #1 Dup  
**Tag Number:** 483, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>		<b>FLD</b>			<b>Analyst:</b>	
Lab Vacuum In	0			"Hg		2/15/2021
Lab Vacuum Out	-30			"Hg		2/15/2021
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>			<b>Analyst: RJP</b>	
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 11:34:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/15/2021 11:34:00 PM
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	2/15/2021 11:34:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Acetone	4.6	3.0		ppbV	10	2/16/2021 12:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Benzene	0.25	0.15		ppbV	1	2/15/2021 11:34:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Carbon tetrachloride	0.060	0.030		ppbV	1	2/15/2021 11:34:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Chloromethane	0.35	0.15		ppbV	1	2/15/2021 11:34:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 11:34:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Cyclohexane	0.28	0.15		ppbV	1	2/15/2021 11:34:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Ethyl acetate	0.23	0.15		ppbV	1	2/15/2021 11:34:00 PM

<b>Qualifiers:</b>	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

Page 1 of 6

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-001A

**Client Sample ID:** Summa #1 Dup  
**Tag Number:** 483, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		<b>Analyst: RJP</b>		
Ethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 11	0.19	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 12	0.37	0.15		ppbV	1	2/15/2021 11:34:00 PM
Heptane	0.16	0.15		ppbV	1	2/15/2021 11:34:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Hexane	0.28	0.15		ppbV	1	2/15/2021 11:34:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	2/16/2021 12:56:00 PM
m&p-Xylene	0.23	0.30	J	ppbV	1	2/15/2021 11:34:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 11:34:00 PM
Methyl Ethyl Ketone	0.98	0.30		ppbV	1	2/15/2021 11:34:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 11:34:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Methylene chloride	0.27	0.15		ppbV	1	2/15/2021 11:34:00 PM
o-Xylene	0.12	0.15	J	ppbV	1	2/15/2021 11:34:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Styrene	0.23	0.15		ppbV	1	2/15/2021 11:34:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Toluene	0.57	0.15		ppbV	1	2/15/2021 11:34:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	2/15/2021 11:34:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/15/2021 11:34:00 PM
Surr: Bromofluorobenzene	102	47-124		%REC	1	2/15/2021 11:34:00 PM

<b>Qualifiers:</b>	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-001A

Client Sample ID: Summa #1 Dup  
 Tag Number: 483, 1345  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 11:34:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 11:34:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 11:34:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 11:34:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/15/2021 11:34:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/15/2021 11:34:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 11:34:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/15/2021 11:34:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 11:34:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 11:34:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/15/2021 11:34:00 PM
2,2,4-trimethylpentane	0.47	0.70	J	ug/m3	1	2/15/2021 11:34:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/15/2021 11:34:00 PM
Acetone	11	7.1		ug/m3	10	2/16/2021 12:56:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/15/2021 11:34:00 PM
Benzene	0.80	0.48		ug/m3	1	2/15/2021 11:34:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/15/2021 11:34:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/15/2021 11:34:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/15/2021 11:34:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/15/2021 11:34:00 PM
Carbon tetrachloride	0.38	0.19		ug/m3	1	2/15/2021 11:34:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/15/2021 11:34:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/15/2021 11:34:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/15/2021 11:34:00 PM
Chloromethane	0.72	0.31		ug/m3	1	2/15/2021 11:34:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 11:34:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 11:34:00 PM
Cyclohexane	0.96	0.52		ug/m3	1	2/15/2021 11:34:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/15/2021 11:34:00 PM
Ethyl acetate	0.83	0.54		ug/m3	1	2/15/2021 11:34:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/15/2021 11:34:00 PM
Freon 11	1.1	0.84		ug/m3	1	2/15/2021 11:34:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	2/15/2021 11:34:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM

Qualifiers:	SC	Sub-Contracted	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL Detection Limit



Date: 25-Feb-21

**Centek Laboratories, LLC**

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-001A

**Client Sample ID:** Summa #1 Dup  
**Tag Number:** 483, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>				<b>TO-15</b>		<b>Analyst: RJP</b>
Freon 12	1.8	0.74		ug/m3	1	2/15/2021 11:34:00 PM
Heptane	0.66	0.61		ug/m3	1	2/15/2021 11:34:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/15/2021 11:34:00 PM
Hexane	0.99	0.53		ug/m3	1	2/15/2021 11:34:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	2/16/2021 12:56:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/15/2021 11:34:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 11:34:00 PM
Methyl Ethyl Ketone	2.9	0.88		ug/m3	1	2/15/2021 11:34:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 11:34:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/15/2021 11:34:00 PM
Methylene chloride	0.94	0.52		ug/m3	1	2/15/2021 11:34:00 PM
o-Xylene	0.52	0.65	J	ug/m3	1	2/15/2021 11:34:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/15/2021 11:34:00 PM
Styrene	0.98	0.64		ug/m3	1	2/15/2021 11:34:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/15/2021 11:34:00 PM
Toluene	2.1	0.57		ug/m3	1	2/15/2021 11:34:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/15/2021 11:34:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 11:34:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 11:34:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/15/2021 11:34:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/15/2021 11:34:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/15/2021 11:34:00 PM

**Qualifiers:**  
 SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-002A

**Client Sample ID:** Summa (MS/MSD)  
**Tag Number:** 210, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>		<b>FLD</b>		<b>Analyst:</b>		
Lab Vacuum In	0			"Hg		2/15/2021
Lab Vacuum Out	-30			"Hg		2/15/2021
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		<b>Analyst: RJP</b>		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/16/2021 12:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/16/2021 12:18:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Acetone	4.5	3.0		ppbV	10	2/16/2021 1:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Benzene	0.26	0.15		ppbV	1	2/16/2021 12:18:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Carbon tetrachloride	0.060	0.030		ppbV	1	2/16/2021 12:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Chloroform	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Chloromethane	0.34	0.15		ppbV	1	2/16/2021 12:18:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/16/2021 12:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Cyclohexane	0.32	0.15		ppbV	1	2/16/2021 12:18:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Ethyl acetate	0.23	0.15		ppbV	1	2/16/2021 12:18:00 AM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

Date: 25-Feb-21

**Centek Laboratories, LLC**

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-002A

**Client Sample ID:** Summa (MS/MSD)  
**Tag Number:** 210, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>				<b>Analyst: RJP</b>
Ethylbenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 11	0.21	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 113	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 12	0.39	0.15		ppbV	1	2/16/2021 12:18:00 AM
Heptane	0.14	0.15	J	ppbV	1	2/16/2021 12:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Hexane	0.19	0.15		ppbV	1	2/16/2021 12:18:00 AM
Isopropyl alcohol	6.9	1.5		ppbV	10	2/16/2021 1:39:00 PM
m&p-Xylene	0.23	0.30	J	ppbV	1	2/16/2021 12:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/16/2021 12:18:00 AM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	2/16/2021 12:18:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/16/2021 12:18:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Methylene chloride	0.26	0.15		ppbV	1	2/16/2021 12:18:00 AM
o-Xylene	0.12	0.15	J	ppbV	1	2/16/2021 12:18:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Styrene	0.22	0.15		ppbV	1	2/16/2021 12:18:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Toluene	0.56	0.15		ppbV	1	2/16/2021 12:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	2/16/2021 12:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/16/2021 12:18:00 AM
Surr: Bromofluorobenzene	98.0	47-124		%REC	1	2/16/2021 12:18:00 AM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

Date: 25-Feb-21

**Centek Laboratories, LLC**

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-002A

**Client Sample ID:** Summa (MS/MSD)  
**Tag Number:** 210, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/16/2021 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/16/2021 12:18:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/16/2021 12:18:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/16/2021 12:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/16/2021 12:18:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/16/2021 12:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/16/2021 12:18:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/16/2021 12:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/16/2021 12:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/16/2021 12:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/16/2021 12:18:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/16/2021 12:18:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/16/2021 12:18:00 AM
Acetone	11	7.1		ug/m3	10	2/16/2021 1:39:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/16/2021 12:18:00 AM
Benzene	0.83	0.48		ug/m3	1	2/16/2021 12:18:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/16/2021 12:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/16/2021 12:18:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/16/2021 12:18:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/16/2021 12:18:00 AM
Carbon tetrachloride	0.38	0.19		ug/m3	1	2/16/2021 12:18:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/16/2021 12:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/16/2021 12:18:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	2/16/2021 12:18:00 AM
Chloromethane	0.70	0.31		ug/m3	1	2/16/2021 12:18:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/16/2021 12:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/16/2021 12:18:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	2/16/2021 12:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/16/2021 12:18:00 AM
Ethyl acetate	0.83	0.54		ug/m3	1	2/16/2021 12:18:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/16/2021 12:18:00 AM
Freon 11	1.2	0.84		ug/m3	1	2/16/2021 12:18:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	2/16/2021 12:18:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-002A

**Client Sample ID:** Summa (MS/MSD)  
**Tag Number:** 210, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>			<b>TO-15</b>			<b>Analyst: RJP</b>
Freon 12	1.9	0.74		ug/m3	1	2/16/2021 12:18:00 AM
Heptane	0.57	0.61	J	ug/m3	1	2/16/2021 12:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/16/2021 12:18:00 AM
Hexane	0.67	0.53		ug/m3	1	2/16/2021 12:18:00 AM
Isopropyl alcohol	17	3.7		ug/m3	10	2/16/2021 1:39:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/16/2021 12:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/16/2021 12:18:00 AM
Methyl Ethyl Ketone	3.2	0.88		ug/m3	1	2/16/2021 12:18:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/16/2021 12:18:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/16/2021 12:18:00 AM
Methylene chloride	0.90	0.52		ug/m3	1	2/16/2021 12:18:00 AM
o-Xylene	0.52	0.65	J	ug/m3	1	2/16/2021 12:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/16/2021 12:18:00 AM
Styrene	0.94	0.64		ug/m3	1	2/16/2021 12:18:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/16/2021 12:18:00 AM
Toluene	2.1	0.57		ug/m3	1	2/16/2021 12:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/16/2021 12:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/16/2021 12:18:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/16/2021 12:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/16/2021 12:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/16/2021 12:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/16/2021 12:18:00 AM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-003A

Client Sample ID: Trip Blank Summa  
 Tag Number: 215  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>		<b>FLD</b>		Analyst:		
Lab Vacuum In	+16			"Hg		2/15/2021
Lab Vacuum Out	+49			"Hg		2/15/2021
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		Analyst: RJP		
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
2,2,4-Trimethylpentane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Acetone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Benzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Carbon tetrachloride	< 0.030	0.030		ppbV	1	2/15/2021 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM

Qualifiers: SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

Page 5 of 6

Date: 25-Feb-21

**Centek Laboratories, LLC**

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-003A

**Client Sample ID:** Trip Blank Summa  
**Tag Number:** 215  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>				<b>Analyst: RJP</b>
Ethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 11	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 12	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Heptane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Toluene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	2/15/2021 10:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/15/2021 10:50:00 PM
Surr: Bromofluorobenzene	98.0	47-124		%REC	1	2/15/2021 10:50:00 PM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

Date: 25-Feb-21

Centek Laboratories, LLC

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-003A

Client Sample ID: Trip Blank Summa  
 Tag Number: 215  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 10:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 10:50:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/15/2021 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/15/2021 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/15/2021 10:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 10:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/15/2021 10:50:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/15/2021 10:50:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
Acetone	< 0.71	0.71		ug/m3	1	2/15/2021 10:50:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/15/2021 10:50:00 PM
Benzene	< 0.48	0.48		ug/m3	1	2/15/2021 10:50:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/15/2021 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/15/2021 10:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/15/2021 10:50:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/15/2021 10:50:00 PM
Carbon tetrachloride	< 0.19	0.19		ug/m3	1	2/15/2021 10:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/15/2021 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/15/2021 10:50:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/15/2021 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	2/15/2021 10:50:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 10:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 10:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	2/15/2021 10:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/15/2021 10:50:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/15/2021 10:50:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/15/2021 10:50:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	2/15/2021 10:50:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	2/15/2021 10:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM

Qualifiers: SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit



**Centek Laboratories, LLC**

Date: 25-Feb-21

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-003A

Client Sample ID: Trip Blank Summa  
 Tag Number: 215  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		Analyst: RJP		
Freon 12	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
Heptane	< 0.61	0.61		ug/m3	1	2/15/2021 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/15/2021 10:50:00 PM
Hexane	< 0.53	0.53		ug/m3	1	2/15/2021 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	2/15/2021 10:50:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	2/15/2021 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 10:50:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	2/15/2021 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 10:50:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/15/2021 10:50:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	2/15/2021 10:50:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	2/15/2021 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/15/2021 10:50:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/15/2021 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/15/2021 10:50:00 PM
Toluene	< 0.57	0.57		ug/m3	1	2/15/2021 10:50:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/15/2021 10:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 10:50:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 10:50:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/15/2021 10:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/15/2021 10:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/15/2021 10:50:00 PM

Qualifiers:	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	HI	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Centek Laboratories, LLC

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AS021502.D

Tune Time : 15 Feb 2021 2:02 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AS021502.D

File	Sample	DL	(BFB)	Surrogate Recovery %	(IS1)	(IS2)	(IS3)
AS021503.D	ALCS1UG-021521	106			40533	166475	160217
AS021504.D	AMB1UG-021521	93			41598	166881	160347
AS021514.D	C2102025-003A	98			41057	172903	163412
AS021515.D	C2102025-001A	102			42943	209659	188051
AS021516.D	C2102025-002A	98			41121	200282	186852
AS021517.D	C2102025-002A MS	103			40647	200540	177273
AS021518.D	C2102025-002A MSD	106			42859	211889	199399
AS021519.D	ALCS1UGD-021521	101			44960	222234	204795
					43939	222395	204668

t - fails 24hr time check \* - fails criteria

Created: Thu Feb 25 13:20:47 2021 MSD #1/

Centek Laboratories, LLC

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AS021602.D

Tune Time : 16 Feb 2021 10:50 am

Daily Calibration File : C:\HPCHEM\1\DATA\AS021602.D

(BFB) (IS1) (IS2) (IS3)  
40377 192908 176845

File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AS021603.D	ALCS1UG-021621	102		39634	192884	179956
AS021604.D	AMB1UG-021621	97		39842	189329	172320
AS021605.D	C2102025-001A 10X	100		37209	174409	159374
AS021606.D	C2102025-002A 10X	99		36221	171790	152308

t - fails 24hr time check \* - fails criteria

Created: Thu Feb 25 13:22:14 2021 MSD #1/

Date: 25-Feb-21



ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID:	ALCS1UG-021521	Batch ID:	R17271	TestCode:	0.20_NYS	Units:	ppbV	Prep Date:	RunNo:	17271	
Client ID:	ZZZZ	Batch ID:	R17271	TestCode:	0.20_NYS	Units:	ppbV	Analysis Date:	SeqNo:	195991	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	91.3	127				
1,1,2,2-Tetrachloroethane	1.020	0.15	1	0	102	78.7	121				
1,1,2-Trichloroethane	1.050	0.15	1	0	105	88.1	136				
1,1-Dichloroethane	0.9800	0.15	1	0	98.0	86.1	123				
1,1-Dichloroethene	0.8600	0.040	1	0	86.0	70	94				
1,2,4-Trichlorobenzene	0.9300	0.15	1	0	93.0	76.7	112				
1,2,4-Trimethylbenzene	0.9200	0.15	1	0	92.0	74.3	123				
1,2-Dibromoethane	1.060	0.15	1	0	106	80.4	125				
1,2-Dichlorobenzene	0.9600	0.15	1	0	96.0	79.5	143				
1,2-Dichloroethane	0.9300	0.15	1	0	93.0	70.9	133				
1,2-Dichloropropane	1.120	0.15	1	0	112	91	134				
1,3,5-Trimethylbenzene	0.9400	0.15	1	0	94.0	77.4	138				
1,3-butadiene	1.010	0.15	1	0	101	71	144				
1,3-Dichlorobenzene	0.9300	0.15	1	0	93.0	84.7	128				
1,4-Dichlorobenzene	0.9400	0.15	1	0	94.0	77.9	131				
1,4-Dioxane	1.000	0.30	1	0	100	85.1	135				
2,2,4-trimethylpentane	1.050	0.15	1	0	105	86.9	126				
4-ethyltoluene	0.9200	0.15	1	0	92.0	77.5	133				
Acetone	1.160	0.30	1	0	116	80.2	145				
Allyl chloride	0.9700	0.15	1	0	97.0	86.6	117				
Benzene	1.040	0.15	1	0	104	88.9	122				
Benzyl chloride	1.370	0.15	1	0	137	73.6	120				S
Bromodichloromethane	1.130	0.15	1	0	113	84.3	133				
Bromoform	1.000	0.15	1	0	100	44.6	149				
Bromomethane	0.9700	0.15	1	0	97.0	78.7	144				

Qualifiers: J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: ALCS1UG-021521	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271						
Client ID: ZZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9800	0.15	1	0	98.0	76.9	109				
Carbon tetrachloride	1.210	0.030	1	0	121	71	120				S
Chlorobenzene	0.9800	0.15	1	0	98.0	82.6	121				
Chloroethane	1.040	0.15	1	0	104	67.1	146				
Chloroform	0.9500	0.15	1	0	95.0	82.5	125				
Chloromethane	1.100	0.15	1	0	110	71.1	154				
cis-1,2-Dichloroethane	0.9100	0.040	1	0	91.0	71.2	112				
cis-1,3-Dichloropropene	1.220	0.15	1	0	122	90.3	137				
Cyclohexane	1.060	0.15	1	0	106	87	122				
Dibromochloromethane	1.090	0.15	1	0	109	62.8	132				
Ethyl acetate	1.010	0.15	1	0	101	86.9	134				
Ethylbenzene	0.9500	0.15	1	0	95.0	76.9	123				
Freon 11	1.050	0.15	1	0	105	54.4	150				
Freon 113	0.9300	0.15	1	0	93.0	83.4	124				
Freon 114	1.030	0.15	1	0	103	82.4	144				
Freon 12	0.9800	0.15	1	0	98.0	86.3	135				
Heptane	1.070	0.15	1	0	107	86.5	137				
Hexachloro-1,3-butadiene	0.9500	0.15	1	0	95.0	78.7	120				
Hexane	0.9400	0.15	1	0	94.0	77.3	128				
Isopropyl alcohol	1.190	0.15	1	0	119	80.2	122				
m&p-Xylene	1.940	0.30	2	0	97.0	77.9	132				
Methyl Butyl Ketone	1.030	0.30	1	0	103	69.4	131				
Methyl Ethyl Ketone	0.9500	0.30	1	0	95.0	71.5	117				
Methyl Isobutyl Ketone	1.040	0.30	1	0	104	63.5	141				
Methyl tert-butyl ether	0.9400	0.15	1	0	94.0	80.8	113				
Methylene chloride	0.9500	0.15	1	0	95.0	87.8	123				
o-Xylene	0.9800	0.15	1	0	98.0	80.5	139				
Propylene	1.030	0.15	1	0	103	96.2	135				
Styrene	0.9600	0.15	1	0	96.0	82.7	138				
Tetrachloroethylene	0.9500	0.15	1	0	95.0	85.9	122				
Tetrahydrofuran	0.9100	0.15	1	0	91.0	65.5	134				

Qualifiers: J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 ND Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: ALCS1UG-021521	SampType: LCS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271						
Client ID: ZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9900	0.15	1	0	99.0	77.8	127				
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	83.3	116				
trans-1,3-Dichloropropene	1.260	0.15	1	0	126	84.8	134				
Trichloroethene	0.9900	0.030	1	0	99.0	79.3	117				
Vinyl acetate	0.8300	0.15	1	0	83.0	70.5	101				
Vinyl Bromide	0.9400	0.15	1	0	94.0	81.4	142				
Vinyl chloride	1.030	0.040	1	0	103	70.4	138				

Sample ID: ALCS1UG-021621	SampType: LCS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17272						
Client ID: ZZZZ	Batch ID: R17272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195999						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.010	0.15	1	0	101	91.3	127				
1,1,2,2-Tetrachloroethane	0.8900	0.15	1	0	89.0	78.7	121				
1,1,2-Trichloroethane	0.9000	0.15	1	0	90.0	88.1	136				
1,1-Dichloroethane	0.9000	0.15	1	0	90.0	86.1	123				
1,1-Dichloroethene	0.9300	0.040	1	0	93.0	70	94				
1,2,4-Trichlorobenzene	1.020	0.15	1	0	102	76.7	112				
1,2,4-Trimethylbenzene	1.060	0.15	1	0	106	74.3	123				
1,2-Dibromoethane	0.9800	0.15	1	0	98.0	80.4	125				
1,2-Dichlorobenzene	1.020	0.15	1	0	102	79.5	143				
1,2-Dichloroethane	0.8700	0.15	1	0	87.0	70.9	133				
1,2-Dichloropropane	0.8600	0.15	1	0	86.0	91	134				S
1,3,5-Trimethylbenzene	1.020	0.15	1	0	102	77.4	138				
1,3-butadiene	0.9200	0.15	1	0	92.0	71	144				
1,3-Dichlorobenzene	1.020	0.15	1	0	102	84.7	128				
1,4-Dichlorobenzene	1.020	0.15	1	0	102	77.9	131				
1,4-Dioxane	0.9100	0.30	1	0	91.0	85.1	135				
2,2,4-trimethylpentane	0.8900	0.15	1	0	89.0	86.9	126				
4-ethyltoluene	1.030	0.15	1	0	103	77.5	133				

Qualifiers: J Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 S Spike Recovery outside accepted recovery limits  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCS1UG-021621	Samp Type: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17272						
Client ID: ZZZZZ	Batch ID: R17272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195999						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.020	0.30	1	0	102	80.2	145				
Allyl chloride	0.8000	0.15	1	0	80.0	86.6	117				S
Benzene	0.8900	0.15	1	0	89.0	88.9	122				
Benzyl chloride	1.070	0.15	1	0	107	73.6	120				
Bromodichloromethane	0.8500	0.15	1	0	85.0	84.3	133				
Bromoform	0.8300	0.15	1	0	83.0	44.6	149				
Bromomethane	0.8500	0.15	1	0	85.0	78.7	144				
Carbon disulfide	0.8800	0.15	1	0	88.0	76.9	109				
Carbon tetrachloride	0.8900	0.030	1	0	89.0	71	120				
Chlorobenzene	0.9600	0.15	1	0	96.0	82.6	121				
Chloroethane	1.010	0.15	1	0	101	67.1	146				
Chloroform	0.9200	0.15	1	0	92.0	82.5	125				
Chloromethane	1.010	0.15	1	0	101	71.1	154				
cis-1,2-Dichloroethene	0.9200	0.040	1	0	92.0	71.2	112				
cis-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	90.3	137				
Cyclohexane	0.9200	0.15	1	0	92.0	87	122				
Dibromochloromethane	0.9000	0.15	1	0	90.0	62.8	132				
Ethyl acetate	0.9100	0.15	1	0	91.0	86.9	134				
Ethylbenzene	0.9900	0.15	1	0	99.0	76.9	123				
Freon 11	1.030	0.15	1	0	103	54.4	150				
Freon 113	0.9000	0.15	1	0	90.0	83.4	124				
Freon 114	0.9600	0.15	1	0	96.0	82.4	144				
Freon 12	0.9100	0.15	1	0	91.0	86.3	135				
Heptane	0.9200	0.15	1	0	92.0	85.5	137				
Hexachloro-1,3-butadiene	0.9800	0.15	1	0	98.0	78.7	120				
Hexane	0.9800	0.15	1	0	98.0	77.3	128				
Isopropyl alcohol	1.100	0.15	1	0	110	80.2	122				
m&p-Xylene	1.970	0.30	2	0	98.5	77.9	132				
Methyl Butyl Ketone	0.8200	0.30	1	0	82.0	69.4	131				
Methyl Ethyl Ketone	0.9800	0.30	1	0	98.0	71.5	117				
Methyl Isobutyl Ketone	0.8200	0.30	1	0	82.0	63.5	141				

**Qualifiers:** J Results reported are not blank corrected  
 J Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 F Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits



**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCSTUG-021621	Samp Type: LCS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17272						
Client ID: ZZZZZ	Batch ID: R17272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195999						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Quai
Methyl tert-butyl ether	1.140	0.15	1	0	114	80.8	113				S
Methylene chloride	0.8600	0.15	1	0	86.0	87.8	123				S
o-Xylene	0.9400	0.15	1	0	94.0	80.5	139				
Propylene	0.8200	0.15	1	0	82.0	96.2	135				S
Styrene	1.010	0.15	1	0	101	82.7	138				
Tetrachloroethylene	0.9800	0.15	1	0	98.0	85.9	122				
Tetrahydrofuran	0.9000	0.15	1	0	90.0	65.5	134				
Toluene	0.9800	0.15	1	0	98.0	77.8	127				
trans-1,2-Dichloroethene	0.9200	0.15	1	0	92.0	83.3	116				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	84.8	134				
Trichloroethene	0.9100	0.030	1	0	91.0	79.3	117				
Vinyl acetate	0.8100	0.15	1	0	81.0	70.5	101				
Vinyl Bromide	1.050	0.15	1	0	105	81.4	142				
Vinyl chloride	0.6800	0.040	1	0	88.0	70.4	138				

**Qualifiers:**

- J Results reported are not blank corrected
- S Analyte detected below quantitation limit
- E Estimated Value above quantitation range
- NID Not Detected at the Limit of Detection
- DI Detection Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Date: 25-Feb-21

**CENTEK LABORATORIES, LLC**

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Leader Consulting Services

**Work Order:** C2102025

**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID:	ALCS1UCD-021521	Batch ID:	R17271	SampType:	LCSD	TestCode:	0.20_NYS	Units:	ppbv	Prep Date:	RunNo:	17271
Client ID:	ZZZZZ	Batch ID:	R17271	TestNo:	TO-15	Analysis Date:	2/16/2021	SeqNo:	195992			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1-Trichloroethane	0.8900	0.15	1	0	89.0	91.3	127	1.27	35.2	0	S	
1,1,2,2-Tetrachloroethane	0.8100	0.15	1	0	81.0	78.7	121	1.02	23.0	0		
1,1,2-Trichloroethane	0.8200	0.15	1	0	82.0	88.1	136	1.05	24.6	0	S	
1,1-Dichloroethane	0.8700	0.15	1	0	87.0	86.1	123	0.98	11.9	0		
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	70	94	0.86	8.48	0		
1,2,4-Trichlorobenzene	0.9500	0.15	1	0	95.0	76.7	112	0.93	2.13	0		
1,2,4-Trimethylbenzene	0.9800	0.15	1	0	98.0	74.3	123	0.92	6.32	0		
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	80.4	125	1.06	15.2	0		
1,2-Dichlorobenzene	0.9400	0.15	1	0	94.0	79.5	143	0.96	2.11	0		
1,2-Dichloroethane	0.8300	0.15	1	0	83.0	70.9	133	0.93	11.4	0		
1,2-Dichloropropane	0.8100	0.15	1	0	81.0	91	134	1.12	32.1	0	S	
1,3,5-Trimethylbenzene	0.9600	0.15	1	0	96.0	77.4	138	0.94	2.11	0		
1,3-butadiene	0.7700	0.15	1	0	77.0	71	144	1.01	27.0	0		
1,3-Dichlorobenzene	0.9600	0.15	1	0	96.0	84.7	128	0.93	3.17	0		
1,4-Dichlorobenzene	0.9600	0.15	1	0	96.0	77.9	131	0.94	2.11	0		
1,4-Dioxane	0.8400	0.30	1	0	84.0	85.1	135	1	17.4	0	S	
2,2,4-Trimethylpentane	0.8300	0.15	1	0	83.0	86.9	126	1.05	23.4	0	S	
4-ethyltoluene	0.9700	0.15	1	0	97.0	77.5	133	0.92	5.29	0		
Acetone	0.8100	0.30	1	0	81.0	80.2	145	1.16	35.5	0		
Allyl chloride	0.8400	0.15	1	0	84.0	86.6	117	0.97	14.4	0	S	
Benzene	0.8300	0.15	1	0	83.0	88.9	122	1.04	22.5	0	S	
Benzyl chloride	0.6900	0.15	1	0	89.0	73.6	120	1.37	42.5	0		
Bromodichloromethane	0.7300	0.15	1	0	73.0	84.3	133	1.13	43.0	0	S	
Bromoform	0.7100	0.15	1	0	71.0	44.6	149	1	33.9	0		
Bromomethane	0.6300	0.15	1	0	63.0	78.7	144	0.97	42.5	0	S	

**Qualifiers:** J Results reported are not blank corrected E Estimated Value above quantification range H Holding times for preparation or analysis exceeded  
 S Analyte detected below quantitation limit ND Not Detected at the Limit of Detection K RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits DL Detection Limit

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCS1UGD-021521	SampType: LCSD	Batch ID: R17271	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271					
Client ID: ZZZZ			TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195992					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8200	0.15	1	0	82.0	76.9	109	0.98	17.8	0	
Carbon tetrachloride	0.7400	0.030	1	0	74.0	71	120	1.21	48.2	0	
Chlorobenzene	0.9100	0.15	1	0	91.0	82.6	121	0.98	7.41	0	
Chloroethane	0.6800	0.15	1	0	68.0	67.1	146	1.04	41.9	0	
Chloroform	0.8600	0.15	1	0	86.0	82.5	125	0.95	9.94	0	
Chloromethane	0.7900	0.15	1	0	79.0	71.1	154	1.1	32.8	0	
cis-1,2-Dichloroethene	0.8700	0.040	1	0	87.0	71.2	112	0.91	4.49	0	
cis-1,3-Dichloropropene	0.9000	0.15	1	0	90.0	90.3	137	1.22	30.2	0	S
Cyclohexane	0.8500	0.15	1	0	85.0	87	122	1.06	22.0	0	S
Dibromochloromethane	0.7800	0.15	1	0	78.0	62.8	132	1.09	33.2	0	
Ethyl acetate	0.8800	0.15	1	0	88.0	86.9	134	1.01	13.8	0	
Ethylbenzene	0.9300	0.15	1	0	93.0	76.9	123	0.96	3.17	0	
Freon 11	0.8400	0.15	1	0	84.0	54.4	150	1.05	22.2	0	
Freon 113	0.8900	0.15	1	0	89.0	83.4	124	0.93	4.40	0	
Freon 114	0.7500	0.15	1	0	75.0	82.4	144	1.03	31.5	0	S
Freon 12	0.7900	0.15	1	0	79.0	86.3	135	0.98	21.5	0	S
Heptane	0.8200	0.15	1	0	82.0	86.5	137	1.07	26.5	0	S
Hexachloro-1,3-butadiene	0.9400	0.15	1	0	94.0	78.7	120	0.95	1.06	0	
Hexane	0.9700	0.15	1	0	97.0	77.3	128	0.94	3.14	0	
Isopropyl alcohol	0.9100	0.15	1	0	91.0	80.2	122	1.19	26.7	0	
m&p-Xylene	1.850	0.30	2	0	92.5	77.9	132	1.94	4.75	0	
Methyl Butyl Ketone	0.7700	0.30	1	0	77.0	69.4	131	1.03	28.9	0	
Methyl Ethyl Ketone	0.9500	0.30	1	0	95.0	71.5	117	0.95	0	0	
Methyl Isobutyl Ketone	0.7800	0.30	1	0	78.0	63.5	141	1.04	28.6	0	
Methyl tert-butyl ether	1.080	0.15	1	0	108	80.8	113	0.94	13.9	0	
Methylene chloride	0.8700	0.15	1	0	87.0	87.8	123	0.95	8.79	0	S
o-Xylene	0.8900	0.15	1	0	89.0	80.5	139	0.98	9.63	0	
Propylene	0.7700	0.15	1	0	77.0	96.2	135	1.03	28.9	0	S
Styrene	0.9400	0.15	1	0	94.0	82.7	138	0.96	2.11	0	
Tetrachloroethylene	0.9300	0.15	1	0	93.0	85.9	122	0.95	2.13	0	
Tetrahydrofuran	0.8700	0.15	1	0	87.0	65.5	134	0.91	4.49	0	

**Qualifiers:** J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded  
 S Spike Recovery, outside accepted recovery limits ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits  
 DL Detection Limit

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: ALCSTUGD-021521	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271						
Client ID: ZZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195992						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9400	0.15	1	0	94.0	77.8	127	0.99	5.18	0	
trans-1,2-Dichloroethene	0.8700	0.15	1	0	87.0	83.3	116	0.95	8.79	0	
trans-1,3-Dichloropropene	1.090	0.15	1	0	100	84.8	134	1.26	23.0	0	
Trichloroethene	0.8600	0.030	1	0	86.0	79.3	117	0.99	14.1	0	
Vinyl acetate	0.7800	0.15	1	0	78.0	70.5	101	0.83	6.21	0	
Vinyl Bromide	0.8500	0.15	1	0	85.0	81.4	142	0.94	10.1	0	
Vinyl chloride	0.7100	0.040	1	0	71.0	70.4	138	1.03	36.8	0	

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits DL Detection Limit



Date: 25-Feb-21

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: AMB1UG-021521	Sample Type: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271						
Client ID: ZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded  
 S Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits DL Detection Limit

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: AMB1UG-021521	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271						
Client ID: ZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers: J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 R Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: AMB1UG-021521	Samp Type: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271
Client ID: ZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195990

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID: AMB1UG-021621	Samp Type: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17272
Client ID: ZZZZ	Batch ID: R17272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195998

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers: . Results reported are not blank corrected  
 J Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: <b>AMBS1UG-021621</b>	SampType: <b>MBLK</b>	TestCode: <b>0.20_NYS</b>	Units: <b>ppbV</b>	Prep Date:	RunNo: <b>17272</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R17272</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>2/16/2021</b>	SeqNo: <b>195998</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

**Qualifiers:** . Results reported are not blank corrected  
 J Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits



**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: <b>AMB1UG-021621</b>	Samp Type: <b>MBLK</b>	TestCode: <b>0.20_NYS</b>	Units: <b>ppbV</b>	Prep Date:	RunNo: <b>17272</b>					
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R17272</b>	TestNo: <b>TO-15</b>	%REC	Analysis Date: <b>2/16/2021</b>	SeqNo: <b>195998</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether	< 0.15	0.15								
Methylene chloride	< 0.15	0.15								
o-Xylene	< 0.15	0.15								
Propylene	< 0.15	0.15								
Styrene	< 0.15	0.15								
Tetrachloroethylene	< 0.15	0.15								
Tetrahydrofuran	< 0.15	0.15								
Toluene	< 0.15	0.15								
trans-1,2-Dichloroethene	< 0.15	0.15								
trans-1,3-Dichloropropene	< 0.15	0.15								
Trichloroethene	< 0.030	0.030								
Vinyl acetate	< 0.15	0.15								
Vinyl Bromide	< 0.15	0.15								
Vinyl chloride	< 0.040	0.040								

**Qualifiers:**

- J Results reported are not blank corrected
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Propylene	0.3	0.32	0.36	0.34	0.33	0.33	0.34	0.33	0.34	0.01	111.9%	0.040
Freon 12	0.3	0.35	0.35	0.36	0.37	0.36	0.38	0.33	0.36	0.02	119.0%	0.050
Chloromethane	0.3	0.35	0.36	0.37	0.37	0.38	0.37	0.32	0.36	0.02	120.0%	0.063
Freon 114	0.3	0.37	0.38	0.36	0.39	0.4	0.38	0.37	0.38	0.01	126.2%	0.042
Vinyl Chloride	0.3	0.36	0.35	0.34	0.38	0.39	0.36	0.34	0.36	0.02	120.0%	0.060
Butane	0.3	0.36	0.33	0.38	0.38	0.33	0.34	0.33	0.35	0.02	116.7%	0.073
1,3-butadiene	0.3	0.33	0.35	0.35	0.31	0.38	0.38	0.33	0.35	0.03	115.7%	0.083
Bromomethane	0.3	0.37	0.37	0.37	0.35	0.38	0.35	0.34	0.36	0.01	120.5%	0.046
Chloroethane	0.3	0.4	0.37	0.34	0.37	0.38	0.32	0.34	0.36	0.03	120.0%	0.087
Ethanol	0.3	0.39	0.38	0.39	0.35	0.37	0.32	0.34	0.36	0.03	121.0%	0.085
Acrolein	0.3	0.26	0.31	0.29	0.34	0.36	0.32	0.33	0.32	0.03	105.2%	0.104
Vinyl Bromide	0.3	0.34	0.38	0.36	0.42	0.42	0.35	0.36	0.38	0.03	125.2%	0.102
Freon 11	0.3	0.27	0.3	0.28	0.37	0.37	0.37	0.35	0.33	0.05	110.0%	0.142
Acetone	0.3	0.32	0.31	0.31	0.41	0.38	0.32	0.31	0.34	0.04	112.4%	0.128
Pentane	0.3	0.3	0.33	0.36	0.42	0.33	0.42	0.41	0.37	0.05	122.4%	0.156
Isopropyl alcohol	0.3	0.36	0.39	0.39	0.43	0.39	0.43	0.37	0.39	0.03	131.4%	0.085
1,1-dichloroethene	0.3	0.3	0.31	0.3	0.3	0.3	0.31	0.29	0.30	0.01	100.5%	0.022
Freon 113	0.3	0.3	0.32	0.31	0.32	0.31	0.32	0.3	0.31	0.01	103.8%	0.028
t-Butyl alcohol	0.3	0.32	0.33	0.32	0.32	0.32	0.33	0.31	0.32	0.01	107.1%	0.022
Methylene chloride	0.3	0.31	0.34	0.32	0.32	0.31	0.34	0.32	0.32	0.01	107.6%	0.039
Allyl chloride	0.3	0.33	0.33	0.32	0.31	0.31	0.32	0.3	0.32	0.01	105.7%	0.035
Carbon disulfide	0.3	0.34	0.34	0.33	0.32	0.32	0.37	0.32	0.33	0.02	111.4%	0.057
trans-1,2-dichloroethene	0.3	0.32	0.33	0.32	0.32	0.32	0.33	0.31	0.32	0.01	107.1%	0.022
methyl tert-butyl ether	0.3	0.31	0.31	0.31	0.3	0.3	0.3	0.29	0.30	0.01	101.0%	0.024
1,1-dichloroethane	0.3	0.32	0.33	0.31	0.33	0.32	0.32	0.31	0.32	0.01	106.7%	0.026
Vinyl acetate	0.3	0.31	0.35	0.31	0.32	0.31	0.31	0.27	0.31	0.02	103.8%	0.074
Methyl Ethyl Ketone	0.3	0.3	0.33	0.31	0.31	0.3	0.29	0.29	0.30	0.01	101.4%	0.044
cis-1,2-dichloroethene	0.3	0.31	0.33	0.32	0.32	0.3	0.32	0.31	0.32	0.01	105.2%	0.031
Hexane	0.3	0.3	0.33	0.32	0.32	0.32	0.32	0.31	0.32	0.01	105.7%	0.030
Ethyl acetate	0.3	0.32	0.33	0.33	0.33	0.33	0.33	0.3	0.32	0.01	106.1%	0.036
Chloroform	0.3	0.31	0.32	0.31	0.33	0.32	0.32	0.31	0.32	0.01	105.7%	0.024
Tetrahydrofuran	0.3	0.32	0.33	0.32	0.32	0.34	0.32	0.31	0.32	0.01	107.6%	0.030
1,2-dichloroethane	0.3	0.33	0.34	0.33	0.34	0.33	0.32	0.33	0.33	0.01	110.5%	0.022
1,1,1-trichloroethane	0.3	0.3	0.31	0.31	0.31	0.31	0.3	0.3	0.31	0.01	101.9%	0.017
Cyclohexane	0.3	0.32	0.32	0.32	0.33	0.31	0.33	0.33	0.32	0.01	107.6%	0.024
Carbon tetrachloride	0.3	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.28	0.00	92.4%	0.015
Benzene	0.3	0.31	0.32	0.33	0.32	0.32	0.32	0.32	0.32	0.01	106.7%	0.018
Methyl methacrylate	0.3	0.31	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.01	107.6%	0.024

Date: 01-Mar-21

**CEN TEK LABORATORIES, LLC**

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: Leader Consulting Services

Work Order: C2102025

Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195996

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8900	0.15	1	0	89.0	68.1	117				
1,1,2,2-Tetrachloroethane	0.8400	0.15	1	0	84.0	82.3	101				
1,1,2-Trichloroethane	0.8100	0.15	1	0	81.0	61	128				
1,1-Dichloroethane	0.8200	0.15	1	0	82.0	76.5	118				
1,1-Dichloroethene	0.8800	0.040	1	0	88.0	45.8	128				
1,2,4-Trichlorobenzene	1.190	0.15	1	0	119	70	130				
1,2,4-Trimethylbenzene	1.080	0.15	1	0	108	81.5	155				
1,2-Dibromoethane	0.8990	0.15	1	0	89.0	78.7	107				
1,2-Dichlorobenzene	1.090	0.15	1	0	100	57.2	175				
1,2-Dichloroethane	0.8400	0.15	1	0	84.0	65.1	130				
1,2-Dichloropropane	0.7990	0.15	1	0	79.0	69.9	116				
1,3,5-Trimethylbenzene	0.9900	0.15	1	0	99.0	67.6	139				
1,3-butadiene	1.060	0.15	1	0	106	70	130				
1,3-Dichlorobenzene	0.9700	0.15	1	0	97.0	89.1	122				
1,4-Dichlorobenzene	0.9700	0.15	1	0	97.0	86.8	114				
1,4-Dioxane	0.8400	0.30	1	0	84.0	75.1	114				
2,2,4-trimethylpentane	0.9100	0.15	1	0	91.0	84.2	113				
4-ethyltoluene	1.020	0.15	1	0	102	70	130				S
Acetone	4.170	0.30	1	4.14	3.00	70	130				
Allyl chloride	0.8100	0.15	1	0	81.0	70	130				
Benzene	1.080	0.15	1	0.26	82.0	72.7	133				
Benzyl chloride	0.9200	0.15	1	0	92.0	72.5	129				
Bromodichloromethane	0.7300	0.15	1	0	73.0	69.4	112				
Bromoform	0.6900	0.15	1	0	69.0	42.5	110				
Bromomethane	0.7800	0.15	1	0	78.0	58.6	121				

Qualifiers: J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 E Spike Recovery outside accepted recovery limits  
 ND Estimated Value above quantitation range  
 DL Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MS	Batch ID: R17271	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271				
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15	Analysis Date: 2/16/2021	SeqNo: 195996						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8200	0.15	1	0	82.0	70	130			
Carbon tetrachloride	0.8200	0.030	1	0.06	76.0	61	107			
Chlorobenzene	0.9500	0.15	1	0	95.0	76.1	111			
Chloroethane	0.8500	0.15	1	0	85.0	62.6	119			
Chloroform	0.8600	0.15	1	0	86.0	6.54	173			
Chloromethane	1.180	0.15	1	0.34	84.0	54.4	125			
cis-1,2-Dichloroethene	0.8600	0.040	1	0	86.0	60.1	121			
cis-1,3-Dichloropropene	0.8900	0.15	1	0	89.0	60.8	122			
Cyclohexane	1.080	0.15	1	0.32	76.0	59.4	148			
Dibromochloromethane	0.7700	0.15	1	0	77.0	71.6	102			
Ethyl acetate	1.040	0.15	1	0.23	81.0	49.3	146			
Ethylbenzene	1.010	0.15	1	0	101	68.5	129			
Freon 11	1.060	0.15	1	0.21	85.0	44.8	143			
Freon 113	0.9100	0.15	1	0	91.0	80.3	125			
Freon 114	0.8200	0.15	1	0	82.0	65.2	132			
Freon 12	1.170	0.15	1	0.39	78.0	67.4	103			
Heptane	0.9500	0.15	1	0.14	81.0	80.8	124			
Hexachloro-1,3-butadiene	0.9700	0.15	1	0	97.0	81.9	119			
Hexane	1.070	0.15	1	0.19	88.0	73.7	147			
isopropyl alcohol	6.920	0.15	1	6.7	22.0	70	130			S
m&p-Xylene	2.030	0.30	2	0.23	90.0	74.2	123			
Methyl Butyl Ketone	0.8400	0.30	1	0	84.0	72.6	117			
Methyl Ethyl Ketone	1.970	0.30	1	1.07	90.0	59.4	135			
Methyl Isobutyl Ketone	0.8000	0.30	1	0	80.0	61	120			
Methyl tert-butyl ether	1.070	0.15	1	0	107	63.6	134			
Methylene chloride	1.060	0.15	1	0.26	83.0	53.4	125			
o-Xylene	0.9800	0.15	1	0.12	86.0	74.3	132			
Propylene	2.110	0.15	1	0	211	70	130			S
Styrene	1.150	0.15	1	0.22	93.0	82.4	118			
Tetrachloroethylene	0.9400	0.15	1	0	94.0	86.2	112			
Tetrahydrofuran	0.9000	0.15	1	0	90.0	70	130			

**Qualifiers:** - Results reported are not blank corrected  
 J Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MS	Batch ID: R17271	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271					
Client ID: Summa (MS/MSD)			TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195996					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.420	0.15	1	0.56	86.0	70	130				
trans-1,2-Dichloroethene	0.8400	0.15	1	0	84.0	70.9	132				
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	51.9	133				
Trichloroethene	0.8700	0.030	1	0	87.0	63.1	109				
Vinyl acetate	1.100	0.15	1	0	110	17.3	187				
Vinyl Bromide	0.8800	0.15	1	0	88.0	71.3	121				
Vinyl chloride	0.7500	0.040	1	0	75.0	63.2	114				
Surr: Bromofluorobenzene	1.030	0	1	0	103	63.2	131				

Sample ID: C2102025-002A MS	SampType: MSD	Batch ID: R17271	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271					
Client ID: Summa (MS/MSD)			TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195997					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8700	0.15	1	0	87.0	68.1	117	0.89	2.27	0	
1,1,2,2-Tetrachloroethane	0.8600	0.15	1	0	86.0	82.3	101	0.84	2.35	0	
1,1,2-Trichloroethane	0.8100	0.15	1	0	81.0	61	128	0.81	0	0	
1,1-Dichloroethane	0.8400	0.15	1	0	84.0	76.5	118	0.82	2.41	0	
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	45.8	128	0.88	10.8	0	
1,2,4-Trichlorobenzene	1.200	0.15	1	0	120	30.3	262	1.19	0.837	0	
1,2,4-Trimethylbenzene	1.100	0.15	1	0	110	81.5	155	1.08	1.83	0	
1,2-Dibromoethane	0.9000	0.15	1	0	90.0	78.7	107	0.89	1.12	0	
1,2-Dichlorobenzene	0.9800	0.15	1	0	98.0	57.2	175	1	2.02	0	
1,2-Dichloroethane	0.8100	0.15	1	0	81.0	65.1	130	0.84	3.64	0	
1,2-Dichloropropane	0.7900	0.15	1	0	79.0	69.9	116	0.79	0	0	
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	67.6	139	0.99	2.00	0	
1,3-butadiene	1.110	0.15	1	0	111	70	404	1.06	4.61	0	
1,3-Dichlorobenzene	0.9800	0.15	1	0	98.0	89.1	122	0.97	1.03	0	
1,4-Dichlorobenzene	0.9700	0.15	1	0	97.0	86.8	114	0.97	0	0	
1,4-Dioxane	0.8300	0.30	1	0	83.0	75.1	114	0.84	1.20	0	
2,2,4-trimethylpentane	0.9200	0.15	1	0	92.0	84.2	113	0.91	1.09	0	

**Qualifiers:** . Results reported are not blank corrected  
 J Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID:	C2102025-002A_MS	SampType:	MSD	Batch ID:	R17271	TestCode:	0.20_NYS	Units:	ppby	Prep Date:	RunNo:	17271
Client ID:	Summa (MS/MSD)					Analysis Date:	2/16/2021				SeqNo:	195997
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
4-ethyltoluene	1.030	0.15	1	0	103	70	130	1.02	0.976	0		
Acetone	4.170	0.30	1	4.14	3.00	70	130	4.17	0	0	S	
Allyl chloride	0.8200	0.15	1	0	82.0	49.7	155	0.81	1.23	0		
Benzene	1.080	0.15	1	0.26	82.0	72.7	133	1.08	0	0		
Benzyl chloride	0.9100	0.15	1	0	91.0	72.5	129	0.92	1.09	0		
Bromodichloromethane	0.7200	0.15	1	0	72.0	69.4	112	0.73	1.36	0		
Bromoform	0.7000	0.15	1	0	70.0	42.5	110	0.69	1.44	0		
Bromomethane	0.7800	0.15	1	0	78.0	68.6	121	0.78	0	0		
Carbon disulfide	0.8300	0.15	1	0	83.0	70	130	0.82	1.21	0		
Carbon tetrachloride	0.8100	0.030	1	0.06	75.0	61	107	0.82	1.23	0		
Chlorobenzene	0.9700	0.15	1	0	97.0	76.1	111	0.95	2.08	0		
Chloroethane	0.7700	0.15	1	0	77.0	62.6	119	0.85	9.88	0		
Chloroform	0.8600	0.15	1	0	86.0	6.54	173	0.86	0	0		
Chloromethane	1.100	0.15	1	0.34	76.0	54.4	125	1.18	7.02	0		
cis-1,2-Dichloroethene	0.8500	0.040	1	0	85.0	60.1	121	0.86	1.17	0		
cis-1,3-Dichloropropene	0.8700	0.15	1	0	87.0	60.8	122	0.89	2.27	0		
Cyclohexane	1.160	0.15	1	0.32	84.0	59.4	148	1.08	7.14	0		
Dibromochloromethane	0.7700	0.15	1	0	77.0	71.6	102	0.77	0	0		
Ethyl acetate	1.050	0.15	1	0.23	82.0	49.3	146	1.04	0.957	0		
Ethylbenzene	1.020	0.15	1	0	102	68.5	129	1.01	0.985	0		
Freon 11	1.040	0.15	1	0.21	83.0	44.6	143	1.06	1.90	0		
Freon 113	0.8200	0.15	1	0	82.0	80.3	125	0.91	10.4	0		
Freon 114	0.7500	0.15	1	0	75.0	65.2	132	0.82	8.92	0		
Freon 12	1.120	0.15	1	0.39	73.0	67.4	103	1.17	4.37	0		
Heptane	0.9600	0.15	1	0.14	82.0	80.8	124	0.95	1.05	0		
Hexachloro-1,3-butadiene	0.9700	0.15	1	0	97.0	81.9	119	0.97	0	0		
Hexane	1.100	0.15	1	0.19	91.0	73.7	147	1.07	2.76	0		
Isopropyl alcohol	6.830	0.15	1	6.7	13.0	70	130	6.92	1.31	0	S	
m&p-Xylene	2.060	0.30	2	0.23	91.5	74.2	123	2.03	1.47	0		
Methyl Butyl Ketone	0.8400	0.30	1	0	84.0	72.6	117	0.84	0	0		
Methyl Ethyl Ketone	1.960	0.30	1	1.07	89.0	59.4	135	1.97	0.509	0		

**Qualifiers:** Results reported are not blank corrected  
 j Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271						
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195997						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	0.8100	0.30	1	0	81.0	61	120	0.8	1.24	0	
Methyl tert-butyl ether	1.070	0.15	1	0	107	63.6	134	1.07	0	0	
Methylene chloride	1.100	0.15	1	0.26	84.0	53.4	125	1.09	0.913	0	
o-Xylene	0.9900	0.15	1	0.12	87.0	74.3	132	0.98	1.02	0	
Propylene	1.980	0.15	1	0	198	70	130	2.11	6.36	0	S
Styrene	1.170	0.15	1	0.22	95.0	82.4	118	1.15	1.72	0	
Tetrachloroethylene	0.9500	0.15	1	0	95.0	86.2	112	0.94	1.06	0	
Tetrahydrofuran	0.9000	0.15	1	0	90.0	70	130	0.9	0	0	
Toluene	1.440	0.15	1	0.56	88.0	70	130	1.42	1.40	0	
trans-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70.9	132	0.84	1.18	0	
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	51.9	133	1	1.01	0	
Trichloroethene	0.8600	0.030	1	0	86.0	63.1	109	0.87	1.16	0	
Vinyl acetate	1.120	0.15	1	0	112	70	130	1.1	1.80	0	
Vinyl Bromide	0.8700	0.15	1	0	87.0	70	130	0.88	1.14	0	
Vinyl chloride	0.7300	0.040	1	0	73.0	63.2	114	0.75	2.70	0	
Surr: Bromofluorobenzene	1.060	0	1	0	106	63.2	131	0	0	0	

**Qualifiers:** J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

Compound	Am't	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
1,4-dioxane	0.3	0.3	0.3	0.31	0.31	0.3	0.31	0.3	0.30	0.01	101.4%	0.017
2,2,4-trimethylpentane	0.3	0.31	0.32	0.32	0.33	0.32	0.32	0.33	0.32	0.01	107.1%	0.022
Heptane	0.3	0.31	0.34	0.34	0.34	0.33	0.33	0.32	0.33	0.01	110.0%	0.036
Trichloroethene	0.3	0.28	0.3	0.29	0.3	0.3	0.31	0.3	0.30	0.01	99.0%	0.030
1,2-dichloropropane	0.3	0.31	0.32	0.32	0.32	0.33	0.33	0.32	0.32	0.01	107.1%	0.022
Bromodichloromethane	0.3	0.29	0.3	0.3	0.3	0.29	0.3	0.29	0.30	0.01	98.6%	0.017
cis-1,3-dichloropropene	0.3	0.28	0.29	0.3	0.3	0.29	0.3	0.29	0.29	0.01	97.6%	0.024
trans-1,3-dichloropropene	0.3	0.29	0.29	0.28	0.29	0.29	0.28	0.29	0.29	0.00	95.7%	0.015
1,1,2-trichloroethane	0.3	0.3	0.31	0.3	0.32	0.3	0.31	0.31	0.31	0.01	102.4%	0.024
Toluene	0.3	0.3	0.3	0.3	0.3	0.3	0.31	0.3	0.30	0.00	100.5%	0.012
Methyl Isobutyl Ketone	0.3	0.34	0.35	0.32	0.33	0.33	0.34	0.32	0.33	0.01	111.0%	0.035
Dibromochloromethane	0.3	0.26	0.26	0.25	0.26	0.26	0.26	0.25	0.26	0.00	85.7%	0.015
Methyl Butyl Ketone	0.3	0.31	0.32	0.33	0.32	0.33	0.33	0.32	0.32	0.01	107.6%	0.024
1,2-dibromoethane	0.3	0.3	0.3	0.3	0.31	0.31	0.31	0.31	0.31	0.01	101.9%	0.017
Tetrachloroethylene	0.3	0.3	0.29	0.29	0.29	0.3	0.31	0.3	0.30	0.01	99.0%	0.024
Chlorobenzene	0.3	0.3	0.3	0.3	0.29	0.3	0.31	0.3	0.30	0.01	100.0%	0.018
Ethylbenzene	0.3	0.3	0.3	0.3	0.3	0.31	0.31	0.31	0.30	0.01	101.4%	0.017
m&p-xylene	0.6	0.6	0.59	0.59	0.6	0.6	0.61	0.59	0.60	0.01	99.5%	0.024
Nonane	0.3	0.31	0.33	0.3	0.32	0.32	0.32	0.32	0.32	0.01	105.7%	0.030
Styrene	0.3	0.29	0.29	0.28	0.29	0.28	0.29	0.28	0.29	0.01	95.2%	0.017
Bromoform	0.3	0.21	0.21	0.21	0.2	0.21	0.21	0.19	0.21	0.01	68.6%	0.025
o-xylene	0.3	0.32	0.3	0.31	0.32	0.31	0.31	0.32	0.31	0.01	104.3%	0.024
Cumene	0.3	0.29	0.29	0.28	0.29	0.29	0.3	0.29	0.29	0.01	96.7%	0.018
1,1,2,2-tetrachloroethane	0.3	0.3	0.3	0.29	0.3	0.3	0.31	0.3	0.30	0.01	100.0%	0.018
Propylbenzene	0.3	0.28	0.28	0.27	0.27	0.28	0.28	0.28	0.28	0.00	92.4%	0.015
2-Chlorotoluene	0.3	0.28	0.28	0.27	0.28	0.28	0.29	0.28	0.28	0.01	93.3%	0.018
4-ethyltoluene	0.3	0.28	0.28	0.27	0.28	0.28	0.3	0.28	0.28	0.01	93.8%	0.028
1,3,5-trimethylbenzene	0.3	0.28	0.29	0.29	0.28	0.29	0.3	0.29	0.29	0.01	96.2%	0.022
1,2,4-trimethylbenzene	0.3	0.27	0.28	0.28	0.28	0.27	0.29	0.28	0.28	0.01	92.9%	0.022
1,3-dichlorobenzene	0.3	0.28	0.28	0.27	0.28	0.28	0.29	0.28	0.28	0.01	93.3%	0.018
benzyl chloride	0.3	0.21	0.22	0.21	0.26	0.27	0.22	0.2	0.23	0.03	75.7%	0.085
1,4-dichlorobenzene	0.3	0.28	0.28	0.27	0.28	0.28	0.29	0.28	0.28	0.01	93.3%	0.018
1,2,3-trimethylbenzene	0.3	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.28	0.00	94.3%	0.015
1,2-dichlorobenzene	0.3	0.28	0.28	0.27	0.28	0.29	0.29	0.29	0.28	0.01	94.3%	0.024
1,2,4-trichlorobenzene	0.3	0.25	0.26	0.26	0.25	0.27	0.27	0.25	0.26	0.01	86.2%	0.028
Naphthalene	0.3	0.26	0.26	0.26	0.26	0.26	0.27	0.25	0.26	0.01	86.7%	0.018
Hexachloro-1,3-butadiene	0.3	0.27	0.28	0.28	0.28	0.29	0.29	0.28	0.28	0.01	93.8%	0.022



Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	AVG	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.1	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.01	115.7%	0.025
1,1-dichloroethene	0.1	0.09	0.09	0.09	0.09	0.1	0.1	0.08	0.09	0.01	91.4%	0.022
cis-1,2-dichloroethene	0.1	0.1	0.1	0.1	0.1	0.1	0.09	0.09	0.10	0.00	97.1%	0.015
Carbon tetrachloride	0.1	0.08	0.07	0.08	0.08	0.08	0.07	0.07	0.08	0.01	75.7%	0.017
Trichloroethene	0.1	0.1	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00	91.4%	0.012
Tetrachloroethylene	0.1	0.09	0.09	0.09	0.09	0.09	0.08	0.09	0.09	0.00	88.6%	0.012
Naphthalene	0.1	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	61.4%	0.012

## GC/MS-Whole Air Calculations

## Relative Response Factor (RRF)

$$\text{RRF} = \frac{A_x \cdot C_{is}}{A_{is} \cdot C_x}$$

where:  $A_x$  = area of the characteristic ion for the compound being measured  
 $A_{is}$  = area of the characteristic ion for the specific internal standard of the compound being measured  
 $C_x$  = concentration of the compound being measured (ppbv)  
 $C_{is}$  = concentration of the internal standard (ppbv)

## Percent Relative Standard Deviation (%RSD)

$$\% \text{ RSD} = \frac{\text{Standard deviation of RRF values} \cdot 100}{\text{mean RRF}}$$

## Percent Difference (%D)

$$\% D = \frac{(\text{RRF}_c - \text{mean RRF}_i) \cdot 100}{\text{mean RRF}_i}$$

where:  $\text{RRF}_c$  = relative response factor from the continuing calibration  
 $\text{mean RRF}_i$  = mean relative response factor from the initial calibration

## Sample Calculations

$$\text{ppbv} = \frac{A_x \cdot I_s \cdot D_f}{A_{is} \cdot \text{RRF}}$$

where:  $A_x$  = area of the characteristic ion for the compound being measured  
 $A_{is}$  = area of the characteristic ion for the specific internal standard of the compound being measured  
 $I_s$  = Concentration of the internal standard injected (ppbv)  
 $\text{RRF}$  = relative response factor for the compound being measured  
 $D_f$  = Dilution factor

**GC/MS VOLATILES-WHOLE AIR**

**METHOD TO-15**

**SAMPLE DATA**

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-001A

**Client Sample ID:** Summa #1 Dup  
**Tag Number:** 483, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>		<b>FLD</b>			<b>Analyst:</b>	
Lab Vacuum In	0			"Hg		2/15/2021
Lab Vacuum Out	-30			"Hg		2/15/2021
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>			<b>Analyst: RJP</b>	
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 11:34:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/15/2021 11:34:00 PM
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	2/15/2021 11:34:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Acetone	4.6	3.0		ppbV	10	2/16/2021 12:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Benzene	0.25	0.15		ppbV	1	2/15/2021 11:34:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Carbon tetrachloride	0.060	0.030		ppbV	1	2/15/2021 11:34:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Chloromethane	0.35	0.15		ppbV	1	2/15/2021 11:34:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 11:34:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Cyclohexane	0.28	0.15		ppbV	1	2/15/2021 11:34:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Ethyl acetate	0.23	0.15		ppbV	1	2/15/2021 11:34:00 PM

<b>Qualifiers:</b>	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-001A

Client Sample ID: Summa #1 Dup  
 Tag Number: 483, 1345  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>				<b>TO-15</b>		<b>Analyst: RJP</b>
Ethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 11	0.19	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Freon 12	0.37	0.15		ppbV	1	2/15/2021 11:34:00 PM
Heptane	0.16	0.15		ppbV	1	2/15/2021 11:34:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Hexane	0.28	0.15		ppbV	1	2/15/2021 11:34:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	2/16/2021 12:56:00 PM
m&p-Xylene	0.23	0.30	J	ppbV	1	2/15/2021 11:34:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 11:34:00 PM
Methyl Ethyl Ketone	0.98	0.30		ppbV	1	2/15/2021 11:34:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 11:34:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Methylene chloride	0.27	0.15		ppbV	1	2/15/2021 11:34:00 PM
o-Xylene	0.12	0.15	J	ppbV	1	2/15/2021 11:34:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Styrene	0.23	0.15		ppbV	1	2/15/2021 11:34:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Toluene	0.57	0.15		ppbV	1	2/15/2021 11:34:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	2/15/2021 11:34:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/15/2021 11:34:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/15/2021 11:34:00 PM
Surr: Bromofluorobenzene	102	47-124		%REC	1	2/15/2021 11:34:00 PM

Qualifiers: SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-001A

Client Sample ID: Summa #1 Dup  
 Tag Number: 483, 1345  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 11:34:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 11:34:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 11:34:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 11:34:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/15/2021 11:34:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 11:34:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/15/2021 11:34:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 11:34:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/15/2021 11:34:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 11:34:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 11:34:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/15/2021 11:34:00 PM
2,2,4-trimethylpentane	0.47	0.70	J	ug/m3	1	2/15/2021 11:34:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/15/2021 11:34:00 PM
Acetone	11	7.1		ug/m3	10	2/16/2021 12:56:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/15/2021 11:34:00 PM
Benzene	0.80	0.48		ug/m3	1	2/15/2021 11:34:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/15/2021 11:34:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/15/2021 11:34:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/15/2021 11:34:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/15/2021 11:34:00 PM
Carbon tetrachloride	0.38	0.19		ug/m3	1	2/15/2021 11:34:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/15/2021 11:34:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/15/2021 11:34:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/15/2021 11:34:00 PM
Chloromethane	0.72	0.31		ug/m3	1	2/15/2021 11:34:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 11:34:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 11:34:00 PM
Cyclohexane	0.96	0.52		ug/m3	1	2/15/2021 11:34:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/15/2021 11:34:00 PM
Ethyl acetate	0.83	0.54		ug/m3	1	2/15/2021 11:34:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/15/2021 11:34:00 PM
Freon 11	1.1	0.84		ug/m3	1	2/15/2021 11:34:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	2/15/2021 11:34:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM

Qualifiers: SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-001A

**Client Sample ID:** Summa #1 Dup  
**Tag Number:** 483, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		<b>Analyst: RJP</b>		
Freon 12	1.8	0.74		ug/m3	1	2/15/2021 11:34:00 PM
Heptane	0.66	0.61		ug/m3	1	2/15/2021 11:34:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/15/2021 11:34:00 PM
Hexane	0.99	0.53		ug/m3	1	2/15/2021 11:34:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	2/16/2021 12:56:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/15/2021 11:34:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 11:34:00 PM
Methyl Ethyl Ketone	2.9	0.88		ug/m3	1	2/15/2021 11:34:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 11:34:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/15/2021 11:34:00 PM
Methylene chloride	0.94	0.52		ug/m3	1	2/15/2021 11:34:00 PM
o-Xylene	0.52	0.65	J	ug/m3	1	2/15/2021 11:34:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/15/2021 11:34:00 PM
Styrene	0.98	0.64		ug/m3	1	2/15/2021 11:34:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/15/2021 11:34:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/15/2021 11:34:00 PM
Toluene	2.1	0.57		ug/m3	1	2/15/2021 11:34:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/15/2021 11:34:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 11:34:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 11:34:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/15/2021 11:34:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/15/2021 11:34:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/15/2021 11:34:00 PM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

Data File : C:\HPCHEM\1\DATA\AS021515.D  
 Acq On : 15 Feb 2021 11:34 pm  
 Sample : C2102025-001A  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:53 2021

Vial: 11  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	41121	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.06	114	200282	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	186852	1.00	ppb	-0.02

System Monitoring Compounds

65) Bromofluorobenzene	18.68	95	141406	1.02	ppb	-0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	102.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.19	85	66524	0.37	ppb	99
4) Chloromethane	4.38	50	12804	0.35	ppb	91
14) Freon 11	5.81	101	33785	0.19	ppb	98
15) Acetone	5.97	58	92343	3.66	ppb	# 72
17) Isopropyl alcohol	6.08	45	361137	7.12	ppb	# 38
21) Methylene chloride	7.03	84	14392	0.27	ppb	90
28) Methyl Ethyl Ketone	8.86	72	24377	0.98	ppb	# 100
30) Hexane	8.92	57	21003	0.28	ppb	# 74
31) Ethyl acetate	9.48	43	31243	0.23	ppb	98
37) Cyclohexane	11.47	56	20670m	0.28	ppb	
38) Carbon tetrachloride	11.41	117	7241	0.06	ppb	96
39) Benzene	11.37	78	45936	0.25	ppb	99
42) 2,2,4-trimethylpentane	12.24	57	25225	0.10	ppb	# 53
43) Heptane	12.59	43	13431	0.16	ppb	82
51) Toluene	14.84	92	72162	0.57	ppb	100
59) m&p-xylene	17.39	91	56010	0.23	ppb	99
61) Styrene	17.90	104	41697	0.23	ppb	97
63) o-xylene	17.93	91	32098	0.12	ppb	99



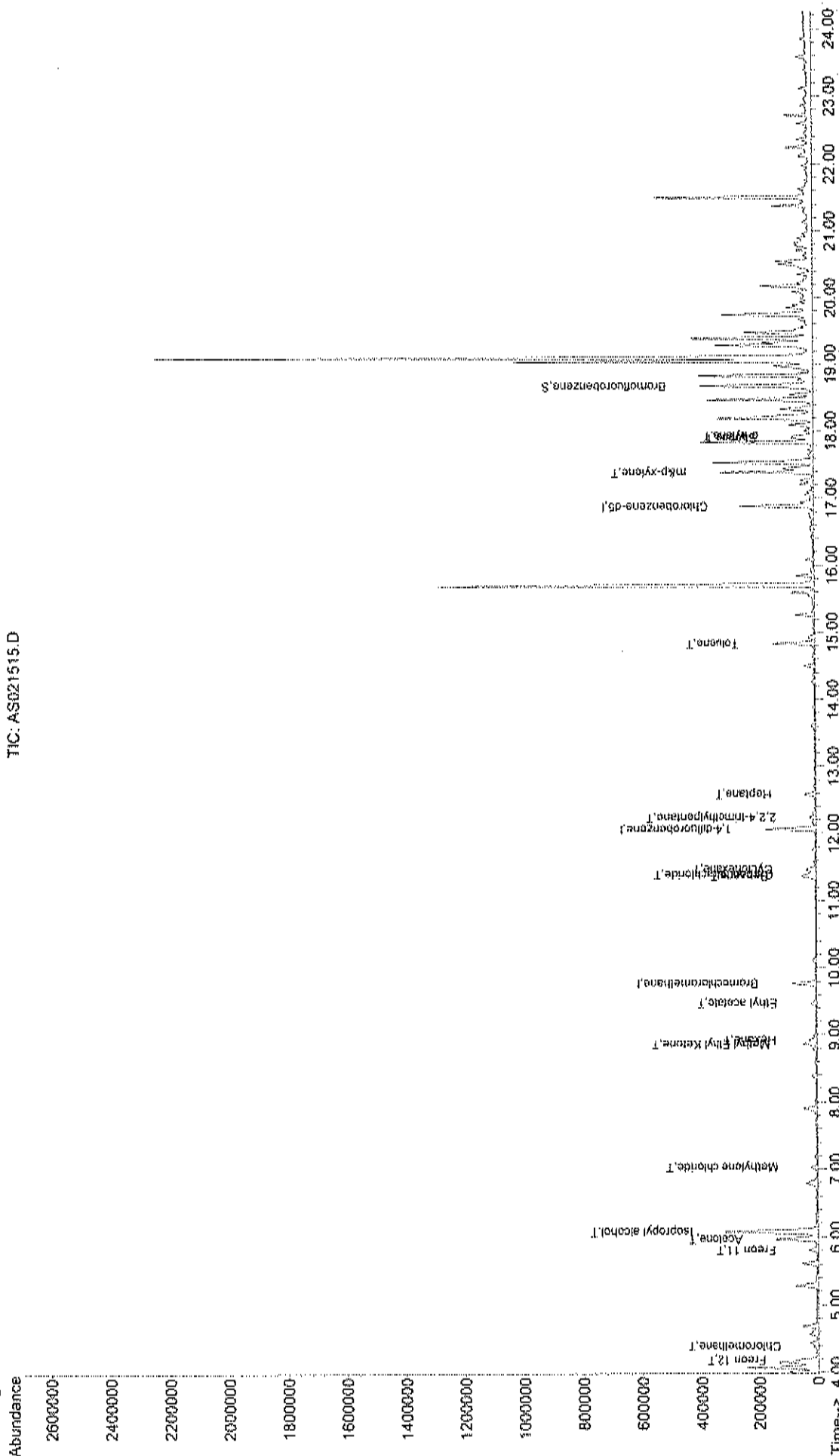
Data File : C:\HPCHEM\1\DATA\AS021515.D  
 Acq On : 15 Feb 2021 11:34 pm  
 Sample : C2102025-001A  
 Misc : A123 IUG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 12:48 2021

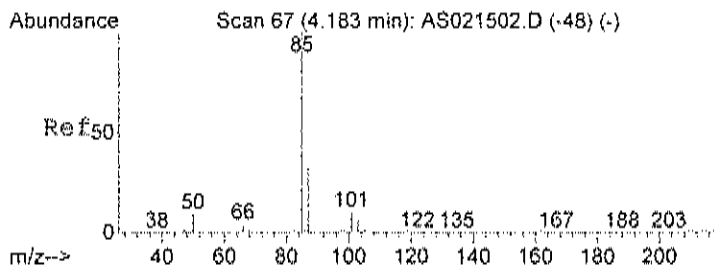
Vial: 11  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 13:17:07 2021  
 Response via : Initial Calibration

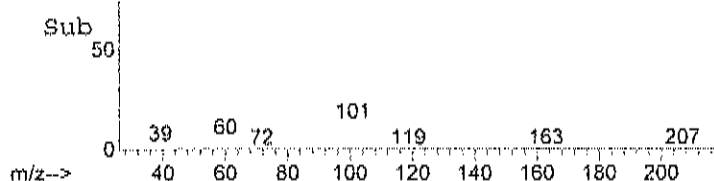
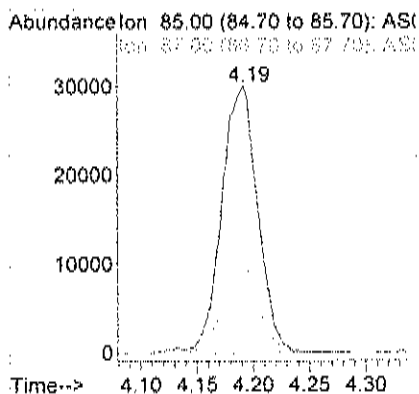
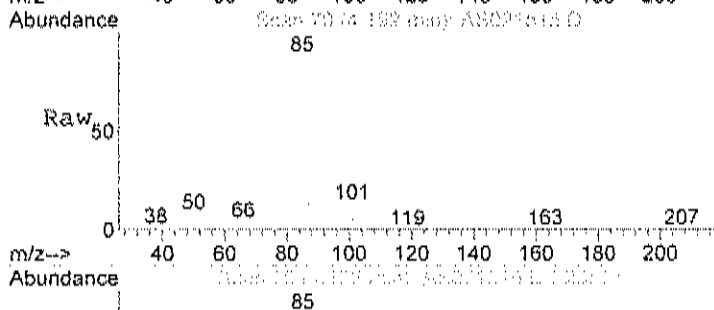
TIC: AS021515.D





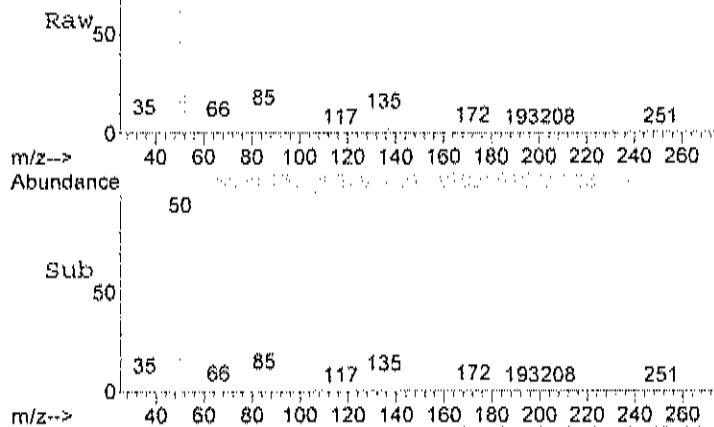
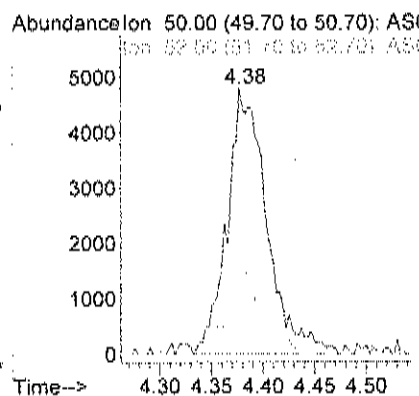
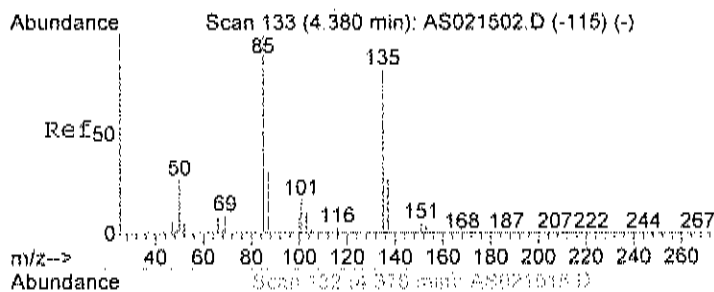
#3  
 Freon 12  
 Concen: 0.37 ppb  
 RT: 4.19 min Scan# 70  
 Delta R.T. -0.01 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

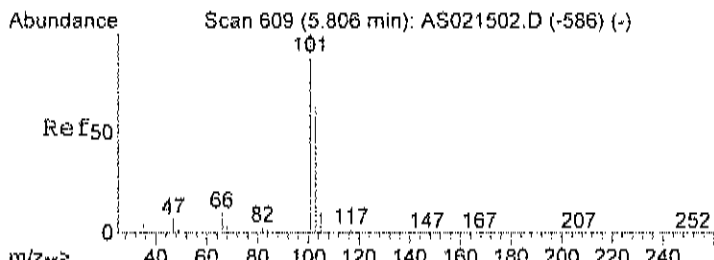
Tgt Ion	Resp	Lower	Upper
85	66524		
87	33.4	14.0	54.0



#4  
 Chloromethane  
 Concen: 0.35 ppb  
 RT: 4.38 min Scan# 132  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

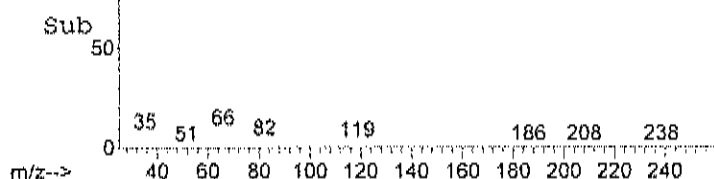
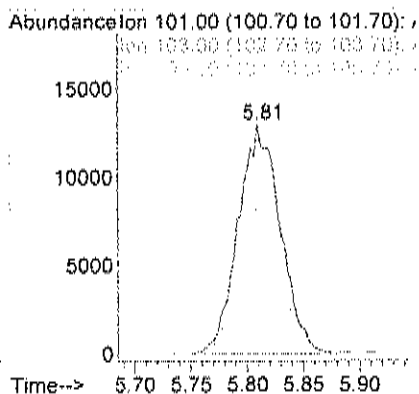
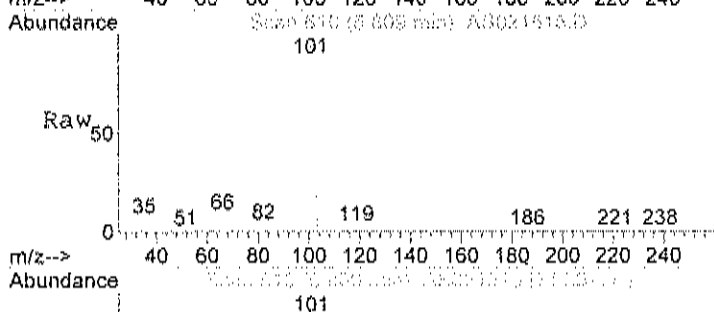
Tgt Ion	Resp	Lower	Upper
50	12804		
52	31.1	6.5	46.5





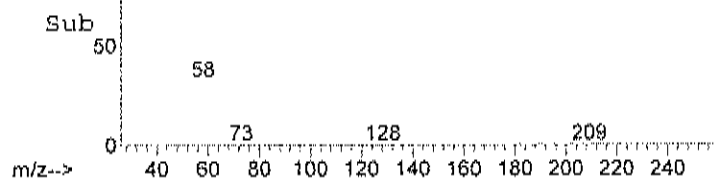
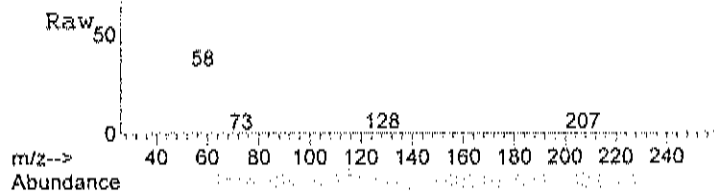
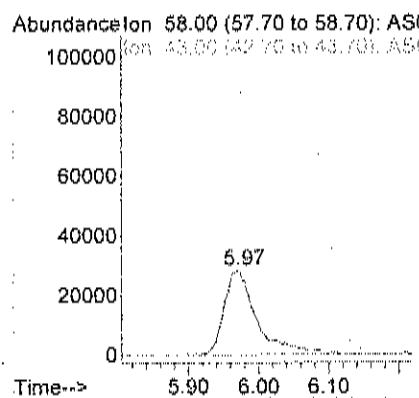
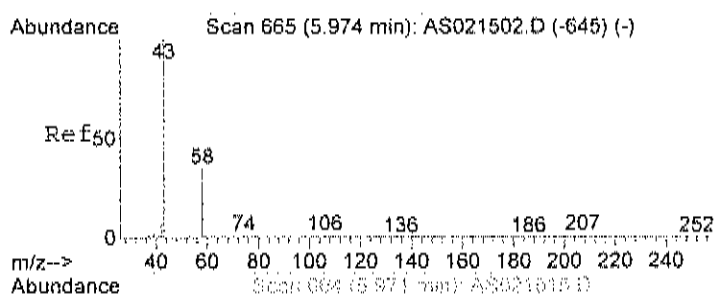
#14  
 Freon 11  
 Concen: 0.19 ppb  
 RT: 5.81 min Scan# 610  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

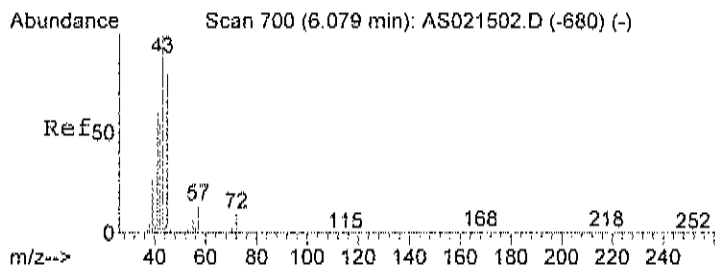
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.6	44.1	84.1
105	11.0	0.0	31.3



#15  
 Acetone  
 Concen: 3.66 ppb  
 RT: 5.97 min Scan# 664  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

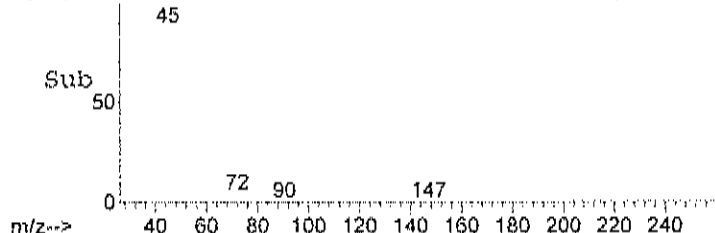
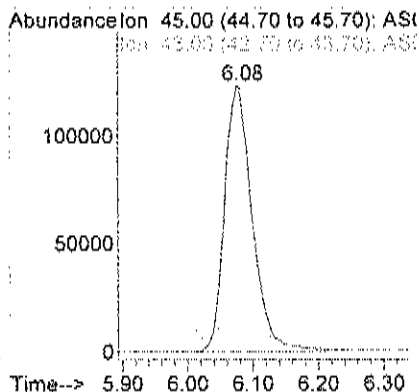
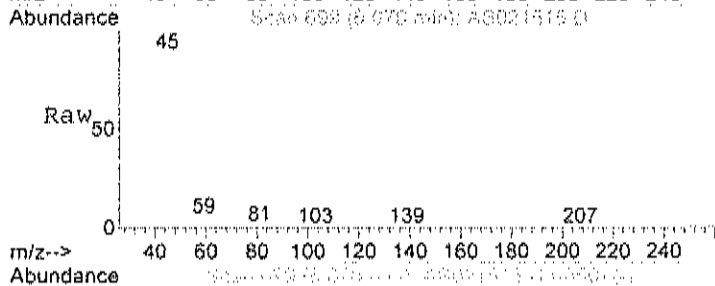
Tgt Ion	Ratio	Lower	Upper
58	100		
43	271.1	195.2	255.2#





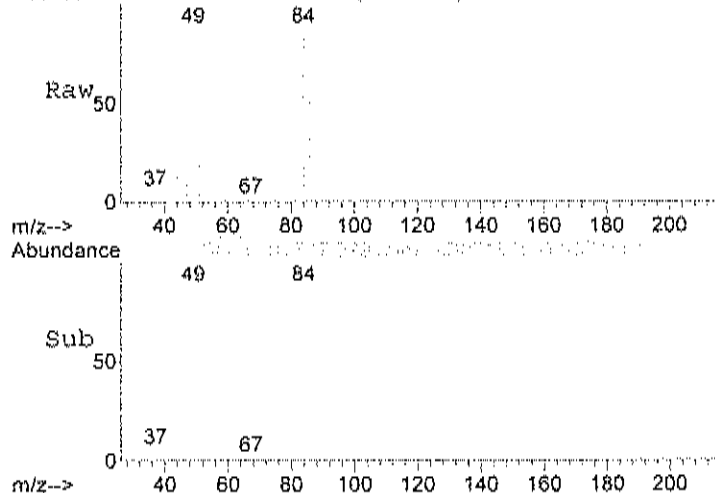
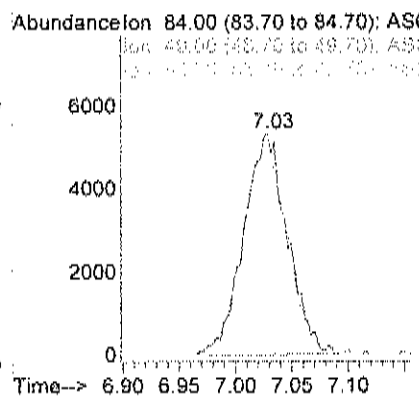
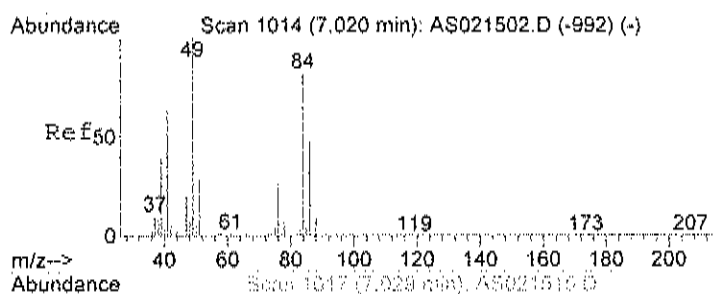
#17  
 Isopropyl alcohol  
 Concen: 7.12 ppb  
 RT: 6.08 min Scan# 699  
 Delta R.T. -0.03 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

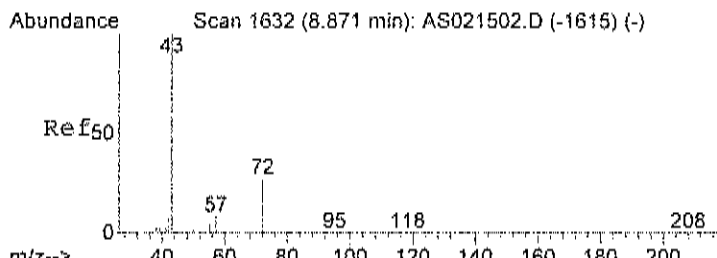
Tgt Ion	Resp	Lower	Upper
45	361137		
45	100		
43	52.9	103.4	143.4#



#21  
 Methylene chloride  
 Concen: 0.27 ppb  
 RT: 7.03 min Scan# 1017  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

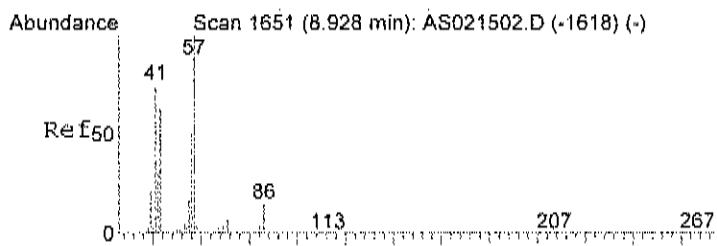
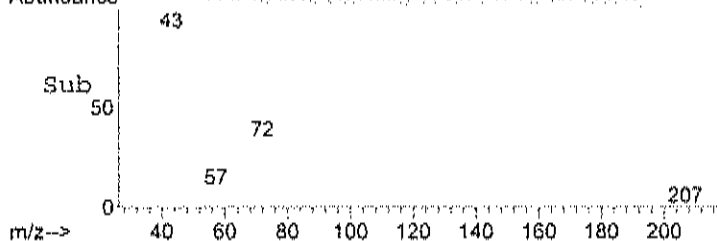
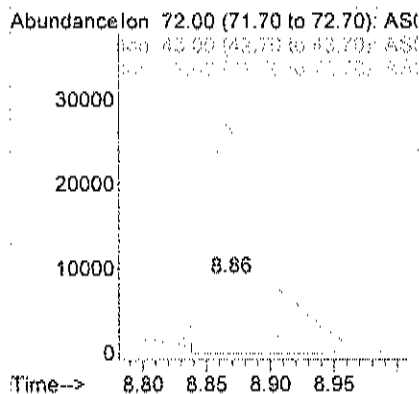
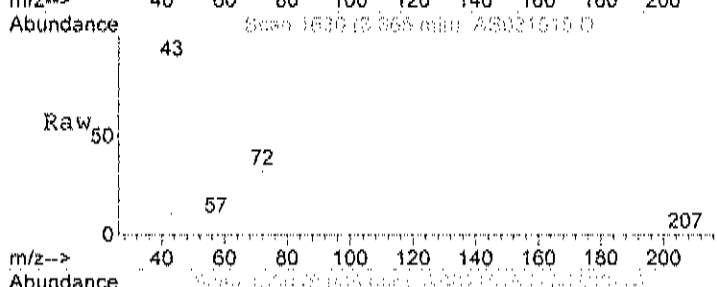
Tgt Ion	Resp	Lower	Upper
84	14392		
84	100		
49	99.5	94.8	134.8
86	64.2	46.1	86.1





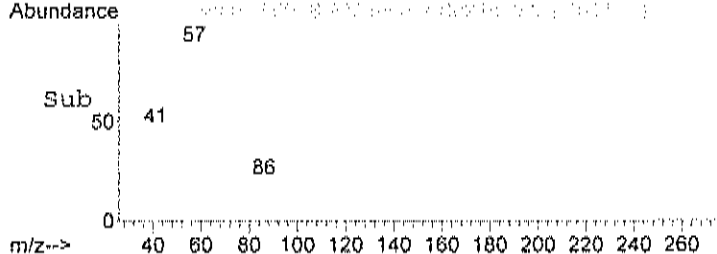
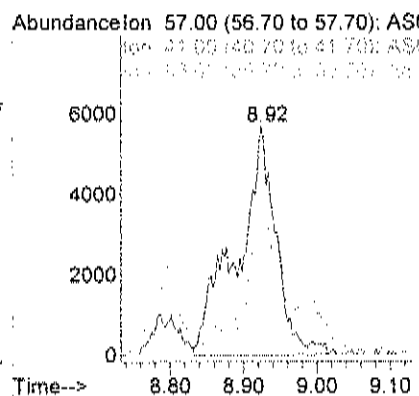
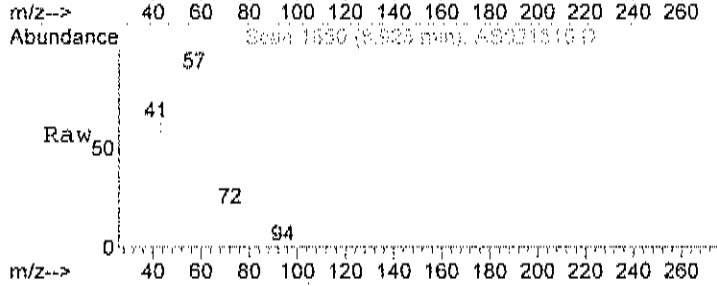
#28  
 Methyl Ethyl Ketone  
 Concen: 0.98 ppb  
 RT: 8.86 min Scan# 1630  
 Delta R.T. -0.04 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

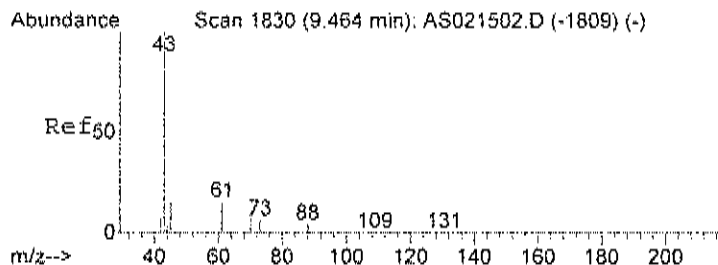
Tgt Ion	Resp	Lower	Upper
72	24377		
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0



#30  
 Hexane  
 Concen: 0.28 ppb  
 RT: 8.92 min Scan# 1650  
 Delta R.T. -0.03 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

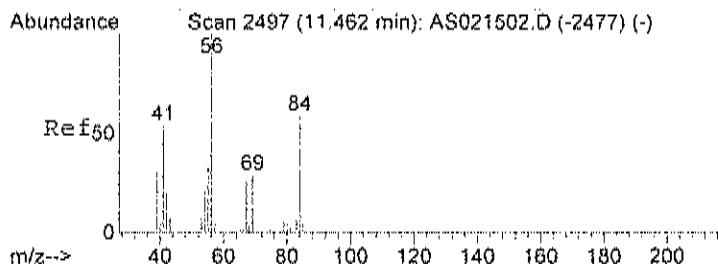
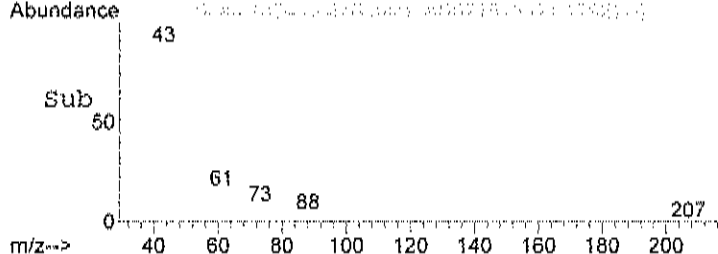
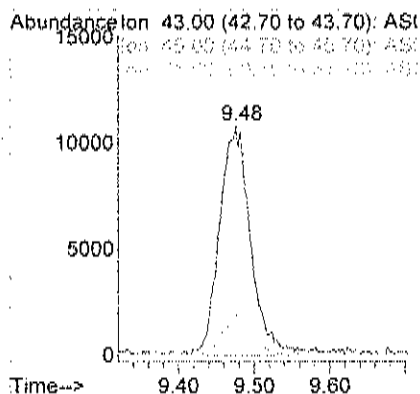
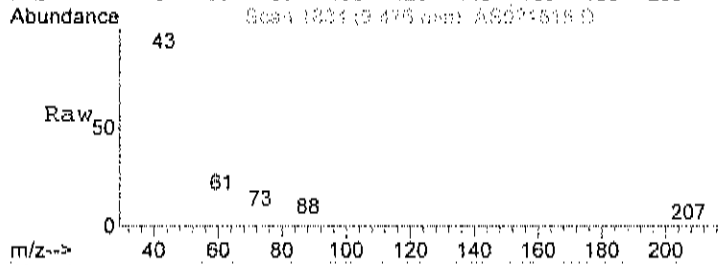
Tgt Ion	Resp	Lower	Upper
57	21003		
57	100		
41	89.3	41.3	81.3#
56	40.4	28.7	68.7





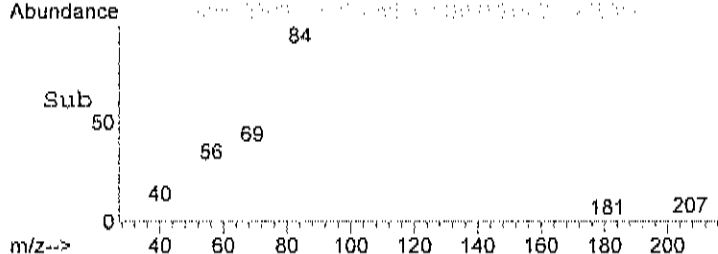
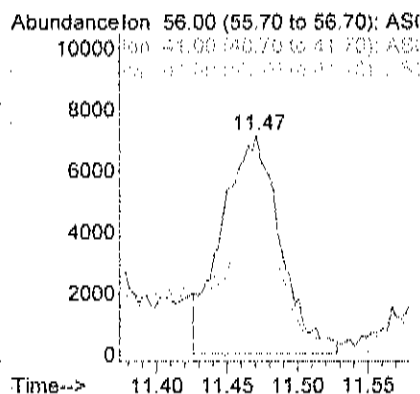
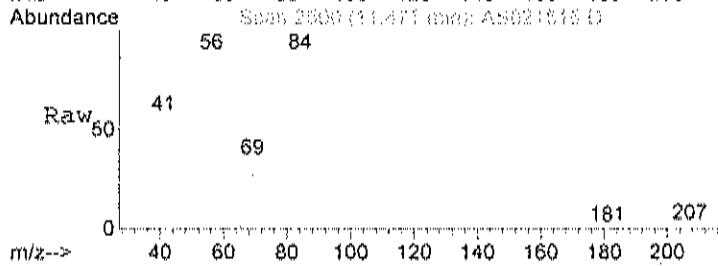
#31  
 Ethyl acetate  
 Concen: 0.23 ppb  
 RT: 9.48 min Scan# 1834  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

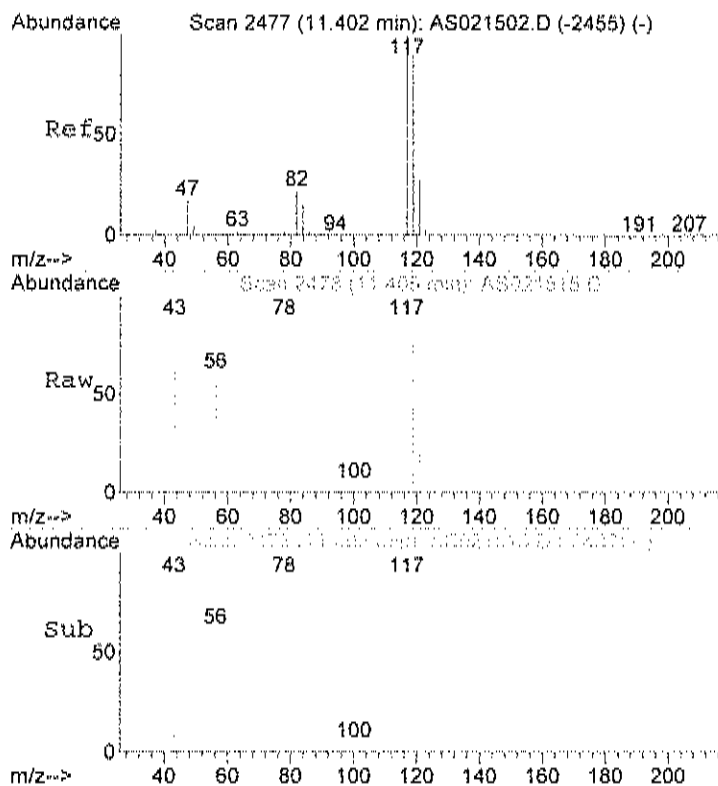
Tgt Ion	Ratio	Lower	Upper
43	100		
45	15.1	0.0	35.3
61	15.8	0.0	37.2



#37  
 Cyclohexane  
 Concen: 0.28 ppb m  
 RT: 11.47 min Scan# 2500  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

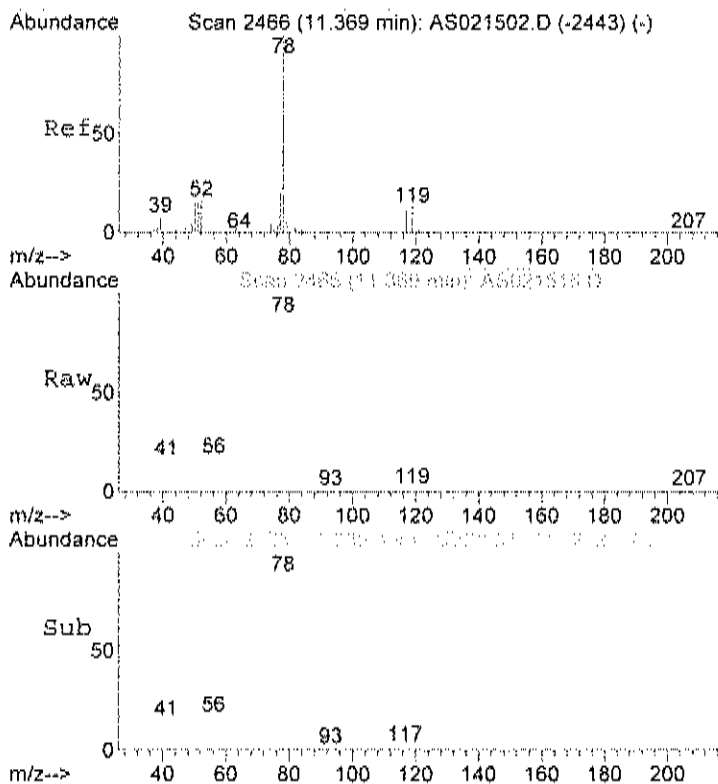
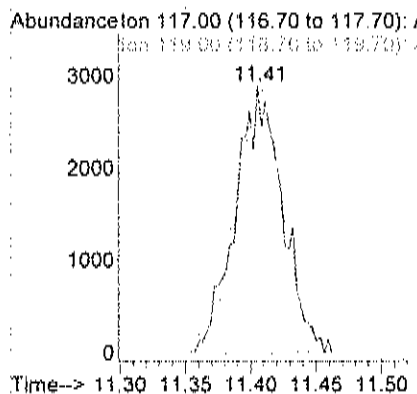
Tgt Ion	Ratio	Lower	Upper
56	100		
41	126.4	29.3	69.3#
84	90.1	91.2	131.2#





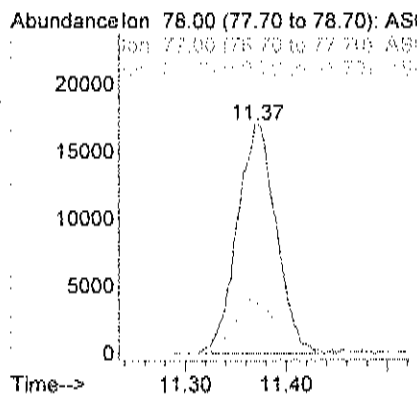
#38  
 Carbon tetrachloride  
 Concen: 0.06 ppb  
 RT: 11.41 min Scan# 2478  
 Delta R.T. -0.03 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

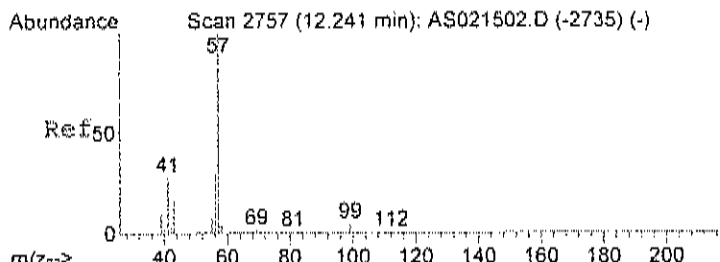
Tgt Ion	Resp	Lower	Upper
117	7241		
117	100		
119	100.0	75.8	115.8



#39  
 Benzene  
 Concen: 0.25 ppb  
 RT: 11.37 min Scan# 2466  
 Delta R.T. -0.03 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

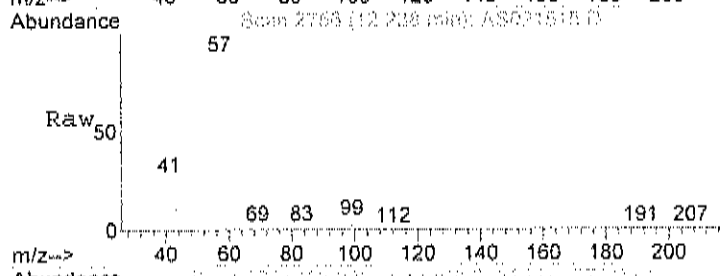
Tgt Ion	Resp	Lower	Upper
78	45936		
78	100		
77	23.8	3.3	43.3
51	15.2	0.0	35.4



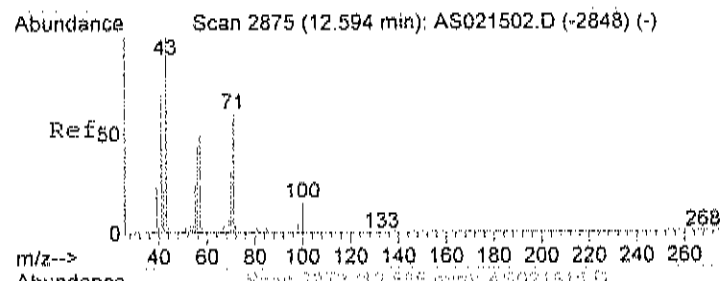
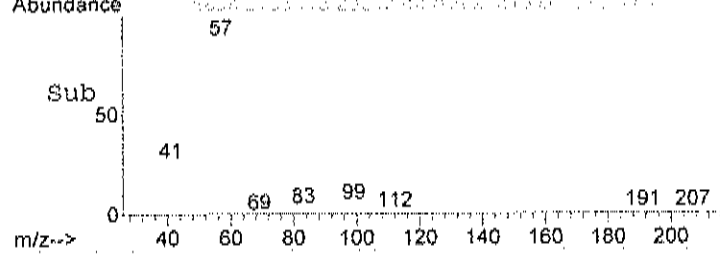
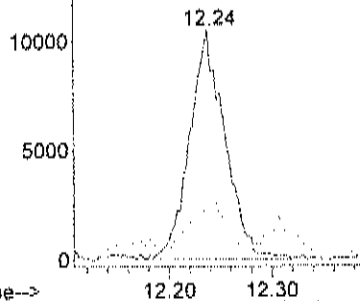


#42  
 2,2,4-trimethylpentane  
 Concen: 0.10 ppb  
 RT: 12.24 min Scan# 2756  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

Tgt Ion	Resp	Lower	Upper
57	25225		
41	55.8	2.4	42.4#
56	47.1	10.3	50.3

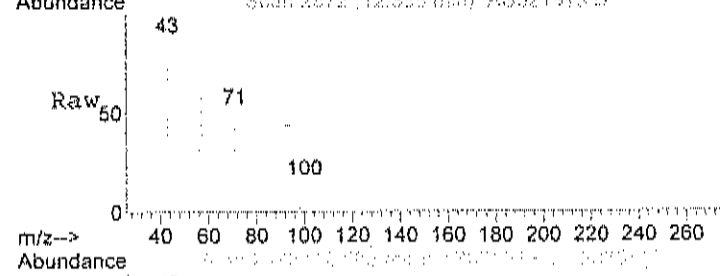


Abundance Ion 57.00 (56.70 to 57.70): AS(

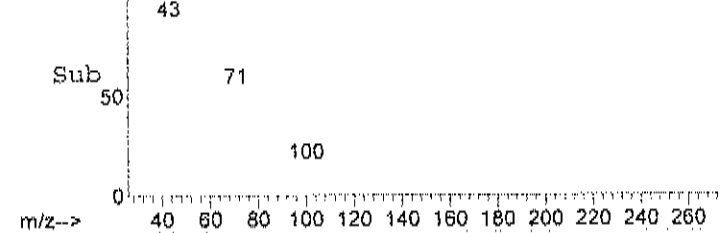
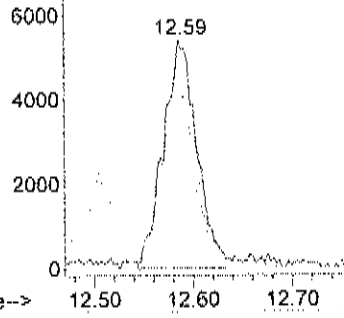


#43  
 Heptane  
 Concen: 0.16 ppb  
 RT: 12.59 min Scan# 2872  
 Delta R.T. -0.03 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

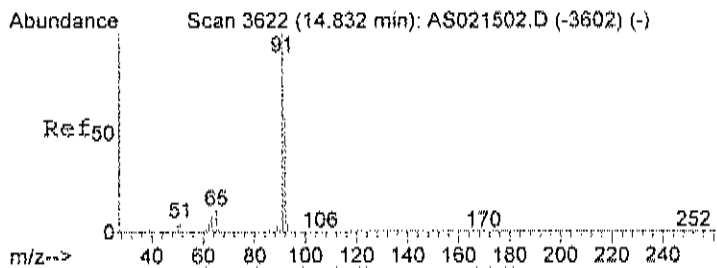
Tgt Ion	Resp	Lower	Upper
43	13431		
43	100		
57	75.4	40.0	80.0
71	53.6	46.8	86.8



Abundance Ion 43.00 (42.70 to 43.70): AS(

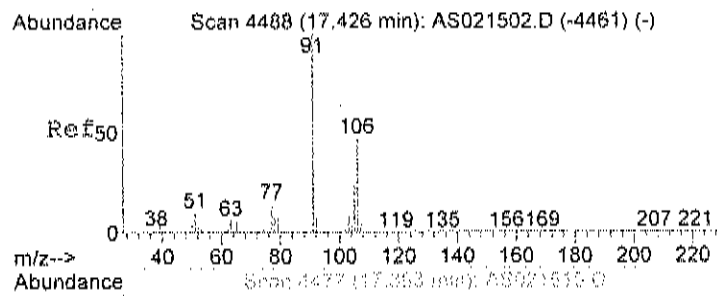
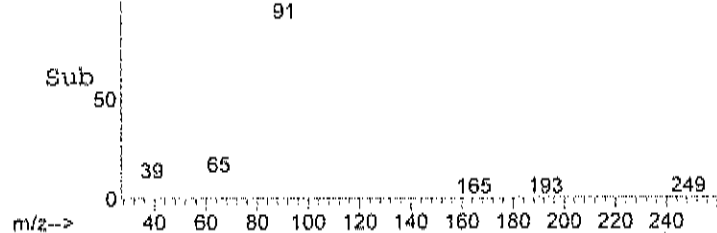
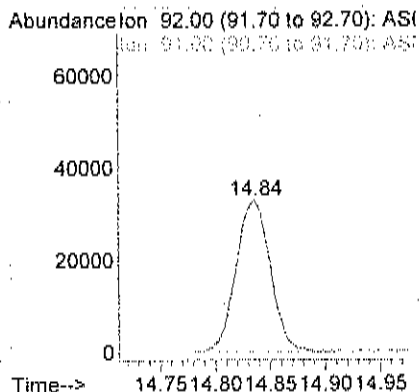
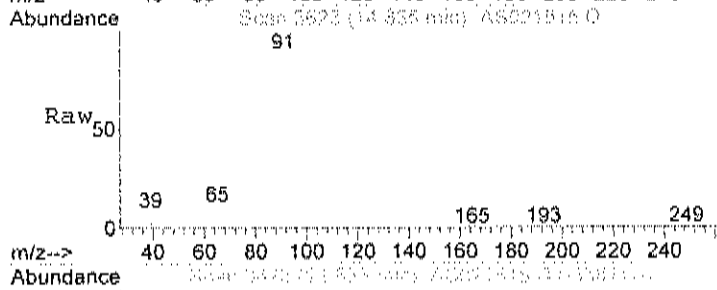






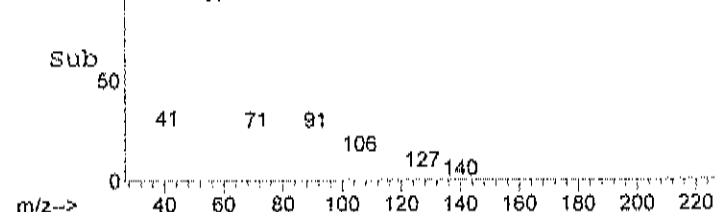
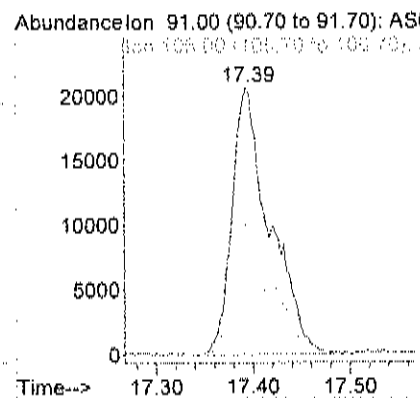
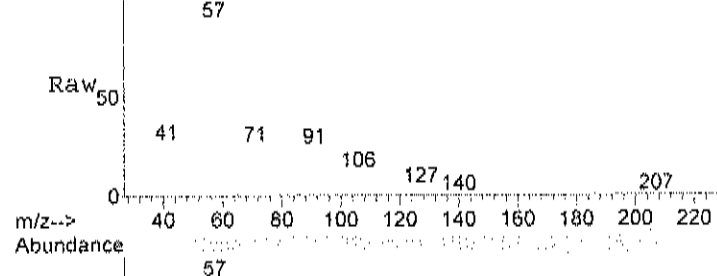
#51  
 Toluene  
 Concen: 0.57 ppb  
 RT: 14.84 min Scan# 3623  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

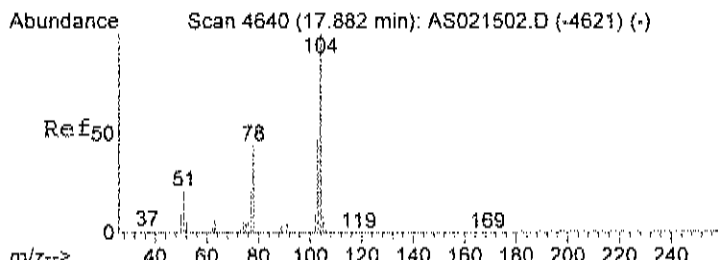
Tgt Ion: 92 Resp: 72162  
 Ion Ratio Lower Upper  
 92 100  
 91 174.1 154.0 194.0



#59  
 m&p-xylene  
 Concen: 0.23 ppb  
 RT: 17.39 min Scan# 4477  
 Delta R.T. -0.05 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

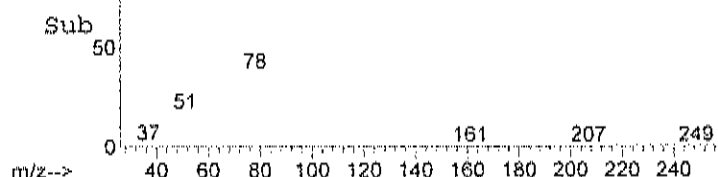
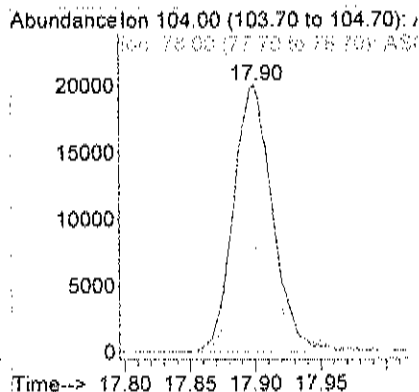
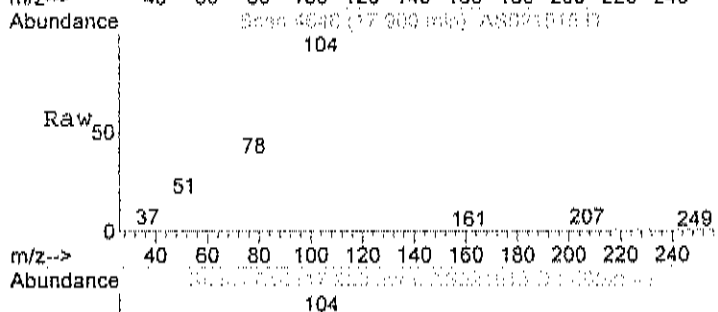
Tgt Ion: 91 Resp: 56010  
 Ion Ratio Lower Upper  
 91 100  
 106 49.7 30.4 70.4





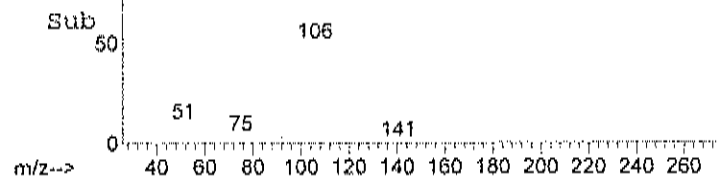
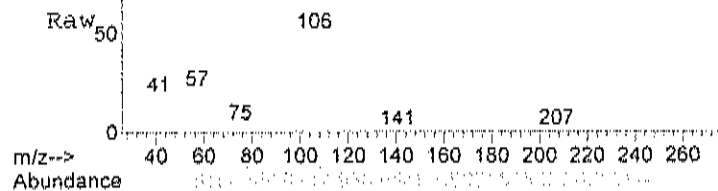
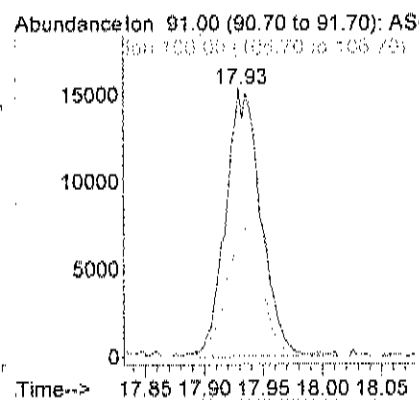
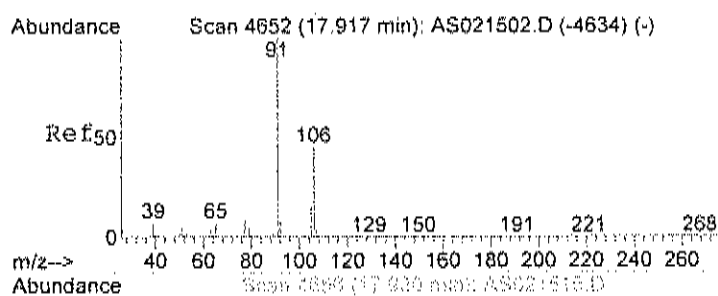
#61  
 Styrene  
 Concen: 0.23 ppb  
 RT: 17.90 min Scan# 4646  
 Delta R.T. -0.02 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

Tgt Ion	Resp	Lower	Upper
104	41697		
78	46.2	28.5	68.5



#63  
 o-xylene  
 Concen: 0.12 ppb  
 RT: 17.93 min Scan# 4656  
 Delta R.T. -0.03 min  
 Lab File: AS021515.D  
 Acq: 15 Feb 2021 11:34 pm

Tgt Ion	Resp	Lower	Upper
91	32098		
106	48.9	28.2	68.2



Data File : C:\HPCHEM\1\DATA\AS021605.D  
 Acq On : 16 Feb 2021 12:56 pm  
 Sample : C2102025-001A 10X  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 14:12:26 2021

Vial: 5  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	37209	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.07	114	174409	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.89	117	159374	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.68	95	118740	1.00	ppb	-0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	100.00%
Target Compounds						Qvalue
15) Acetone	5.98	58	10589	0.46	ppb	# 1
17) Isopropyl alcohol	6.09	45	38508	0.84	ppb	# 1

Quantitation Report (QT Reviewed)

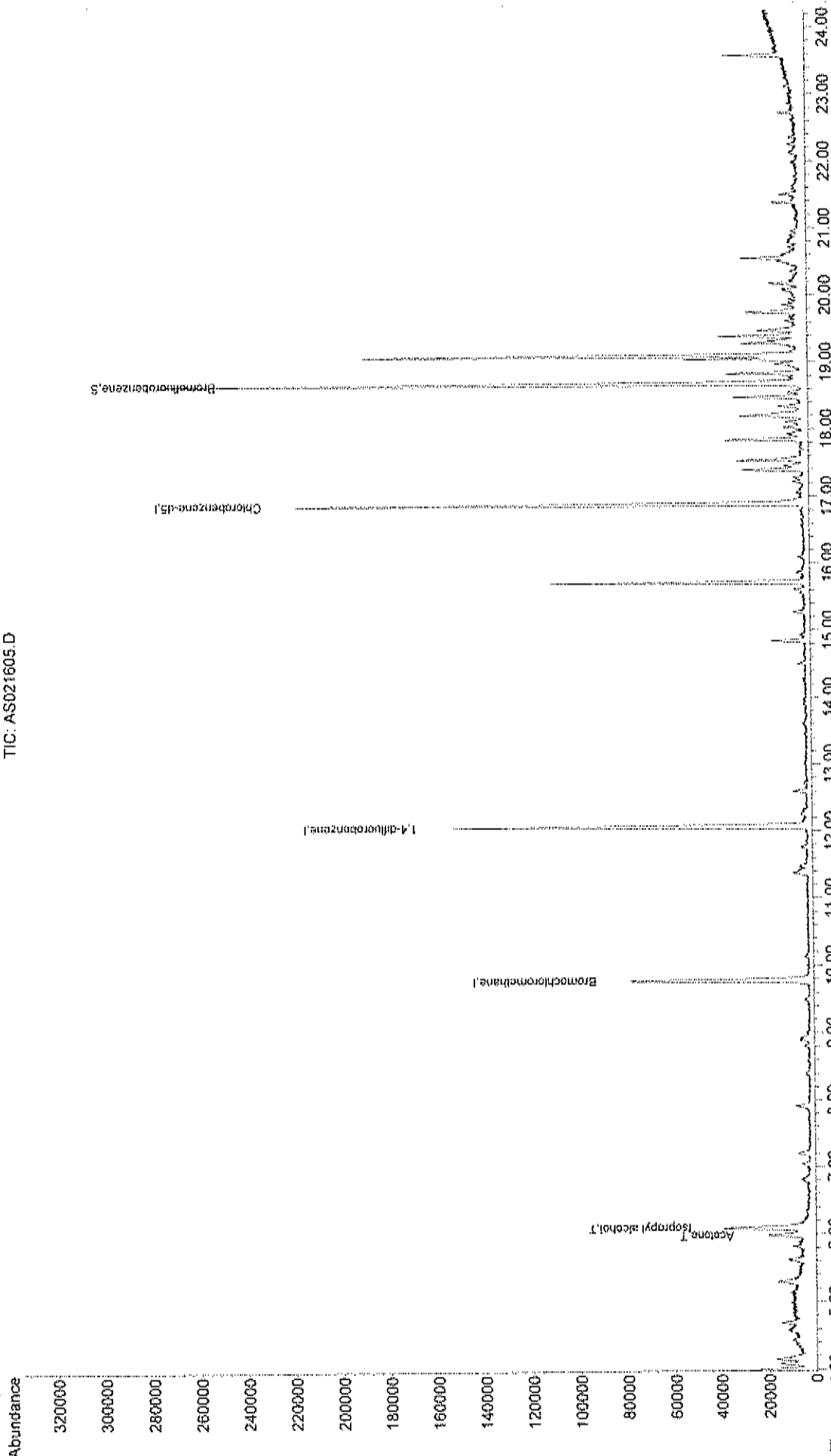
Data File : C:\HPCHEM\1\DATA\AS021605.D  
Acq On : 16 Feb 2021 12:56 pm  
Sample : C2102025-001A 10X  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 22 14:25 2021

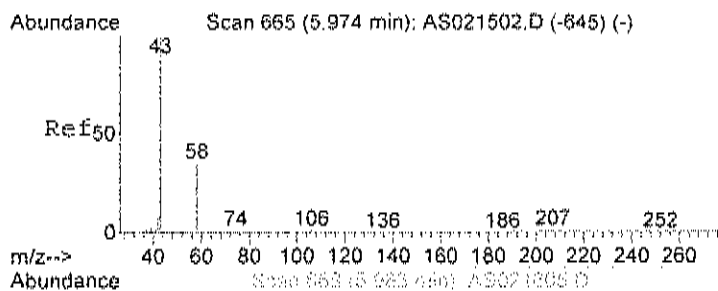
Vial: 5  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : FO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration

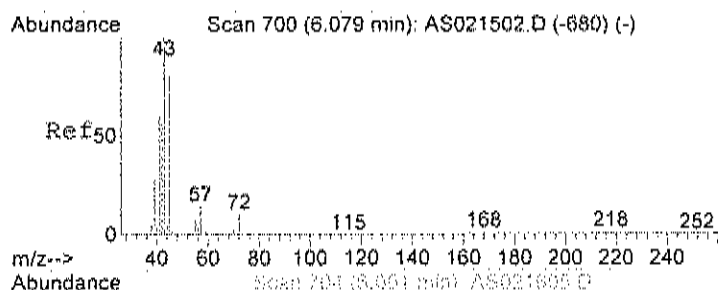
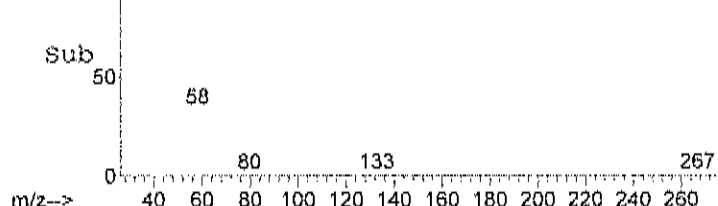
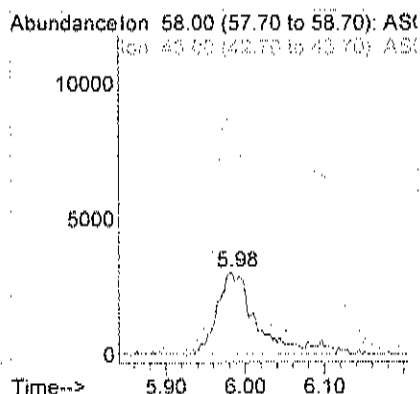
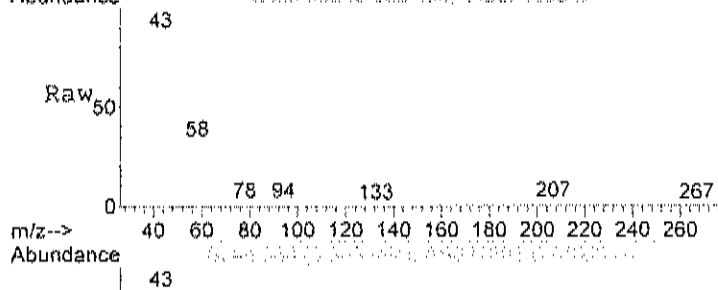
Abundance  
TIC: AS021605.D





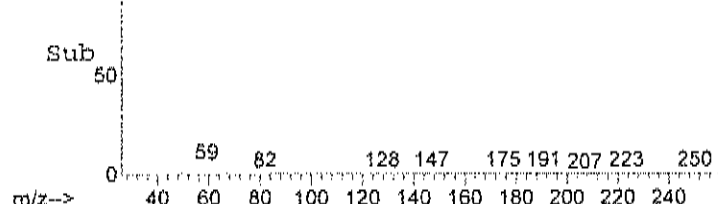
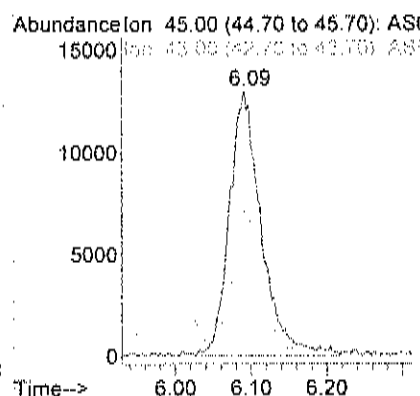
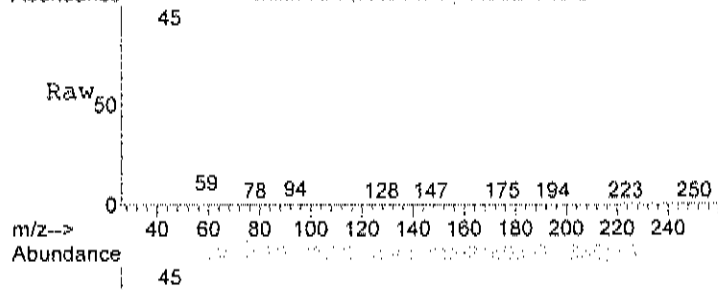
#15  
 Acetone  
 Concen: 0.46 ppb  
 RT: 5.98 min Scan# 668  
 Delta R.T. -0.01 min  
 Lab File: AS021605.D  
 Acq: 16 Feb 2021 12:56 pm

Tgt Ion	Resp	Lower	Upper
58	10589		
58	100		
43	427.7	195.2	255.2#



#17  
 Isopropyl alcohol  
 Concen: 0.84 ppb  
 RT: 6.09 min Scan# 704  
 Delta R.T. -0.02 min  
 Lab File: AS021605.D  
 Acq: 16 Feb 2021 12:56 pm

Tgt Ion	Resp	Lower	Upper
45	38508		
45	100		
43	0.0	103.4	143.4#



**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-002A

**Client Sample ID:** Summa (MS/MSD)  
**Tag Number:** 210, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>		<b>FLD</b>			<b>Analyst:</b>	
Lab Vacuum In	0			"Hg		2/15/2021
Lab Vacuum Out	-30			"Hg		2/15/2021
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>			<b>Analyst: RJP</b>	
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/16/2021 12:18:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/16/2021 12:18:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Acetone	4.5	3.0		ppbV	10	2/16/2021 1:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Benzene	0.26	0.15		ppbV	1	2/16/2021 12:18:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Bromoform	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Carbon tetrachloride	0.060	0.030		ppbV	1	2/16/2021 12:18:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Chloroform	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Chloromethane	0.34	0.15		ppbV	1	2/16/2021 12:18:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/16/2021 12:18:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Cyclohexane	0.32	0.15		ppbV	1	2/16/2021 12:18:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Ethyl acetate	0.23	0.15		ppbV	1	2/16/2021 12:18:00 AM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-002A

**Client Sample ID:** Summa (MS/MSD)  
**Tag Number:** 210, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>				<b>TO-15</b>		<b>Analyst: RJP</b>
Ethylbenzene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 11	0.21	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 113	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 114	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Freon 12	0.39	0.15		ppbV	1	2/16/2021 12:18:00 AM
Heptane	0.14	0.15	J	ppbV	1	2/16/2021 12:18:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Hexane	0.19	0.15		ppbV	1	2/16/2021 12:18:00 AM
Isopropyl alcohol	6.9	1.5		ppbV	10	2/16/2021 1:39:00 PM
m&p-Xylene	0.23	0.30	J	ppbV	1	2/16/2021 12:18:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/16/2021 12:18:00 AM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	2/16/2021 12:18:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/16/2021 12:18:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Methylene chloride	0.26	0.15		ppbV	1	2/16/2021 12:18:00 AM
o-Xylene	0.12	0.15	J	ppbV	1	2/16/2021 12:18:00 AM
Propylene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Styrene	0.22	0.15		ppbV	1	2/16/2021 12:18:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Toluene	0.56	0.15		ppbV	1	2/16/2021 12:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	2/16/2021 12:18:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/16/2021 12:18:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/16/2021 12:18:00 AM
Surr: Bromofluorobenzene	98.0	47-124		%REC	1	2/16/2021 12:18:00 AM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-002A

Client Sample ID: Summa (MS/MSD)  
 Tag Number: 210, 1345  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/16/2021 12:18:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/16/2021 12:18:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/16/2021 12:18:00 AM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/16/2021 12:18:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/16/2021 12:18:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/16/2021 12:18:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/16/2021 12:18:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/16/2021 12:18:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/16/2021 12:18:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/16/2021 12:18:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/16/2021 12:18:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/16/2021 12:18:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/16/2021 12:18:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/16/2021 12:18:00 AM
Acetone	11	7.1		ug/m3	10	2/16/2021 1:39:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/16/2021 12:18:00 AM
Benzene	0.83	0.48		ug/m3	1	2/16/2021 12:18:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/16/2021 12:18:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	2/16/2021 12:18:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	2/16/2021 12:18:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/16/2021 12:18:00 AM
Carbon tetrachloride	0.38	0.19		ug/m3	1	2/16/2021 12:18:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/16/2021 12:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	2/16/2021 12:18:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	2/16/2021 12:18:00 AM
Chloromethane	0.70	0.31		ug/m3	1	2/16/2021 12:18:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/16/2021 12:18:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/16/2021 12:18:00 AM
Cyclohexane	1.1	0.52		ug/m3	1	2/16/2021 12:18:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/16/2021 12:18:00 AM
Ethyl acetate	0.83	0.54		ug/m3	1	2/16/2021 12:18:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/16/2021 12:18:00 AM
Freon 11	1.2	0.84		ug/m3	1	2/16/2021 12:18:00 AM
Freon 113	< 1.1	1.1		ug/m3	1	2/16/2021 12:18:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM

Qualifiers: SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 IN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit



**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-002A

**Client Sample ID:** Summa (MS/MSD)  
**Tag Number:** 210, 1345  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		<b>Analyst: RJP</b>		
Freon 12	1.9	0.74		ug/m3	1	2/16/2021 12:18:00 AM
Heptane	0.57	0.61	J	ug/m3	1	2/16/2021 12:18:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/16/2021 12:18:00 AM
Hexane	0.67	0.53		ug/m3	1	2/16/2021 12:18:00 AM
Isopropyl alcohol	17	3.7		ug/m3	10	2/16/2021 1:39:00 PM
m&p-Xylene	1.0	1.3	J	ug/m3	1	2/16/2021 12:18:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/16/2021 12:18:00 AM
Methyl Ethyl Ketone	3.2	0.88		ug/m3	1	2/16/2021 12:18:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/16/2021 12:18:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/16/2021 12:18:00 AM
Methylene chloride	0.90	0.52		ug/m3	1	2/16/2021 12:18:00 AM
o-Xylene	0.52	0.65	J	ug/m3	1	2/16/2021 12:18:00 AM
Propylene	< 0.26	0.26		ug/m3	1	2/16/2021 12:18:00 AM
Styrene	0.94	0.64		ug/m3	1	2/16/2021 12:18:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/16/2021 12:18:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/16/2021 12:18:00 AM
Toluene	2.1	0.57		ug/m3	1	2/16/2021 12:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/16/2021 12:18:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/16/2021 12:18:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/16/2021 12:18:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/16/2021 12:18:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/16/2021 12:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/16/2021 12:18:00 AM

**Qualifiers:** SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

Data File : C:\HPCHEM\1\DATA\AS021516.D  
 Acq On : 16 Feb 2021 12:18 am  
 Sample : C2102025-002A  
 Misc : A123\_1UG

Vial: 12  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:54 2021

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.76	128	40647	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.07	114	200540	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	177273	1.00	ppb	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Bromofluorobenzene	18.68	95	129704	0.98	ppb	-0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Freon 12	4.19	85	69104	0.39	ppb	97
4) Chloromethane	4.38	50	12372	0.34	ppb	87
14) Freon 11	5.81	101	37875	0.21	ppb	97
15) Acetone	5.97	58	103252	4.14	ppb	# 79
17) Isopropyl alcohol	6.07	45	335568	6.70	ppb	# 45
21) Methylene chloride	7.02	84	13607	0.26	ppb	91
28) Methyl Ethyl Ketone	8.87	72	26123	1.07	ppb	# 100
30) Hexane	8.93	57	14223m	0.19	ppb	
31) Ethyl acetate	9.47	43	30907	0.23	ppb	98
37) Cyclohexane	11.47	56	24313m	0.32	ppb	
38) Carbon tetrachloride	11.41	117	7511	0.06	ppb	91
39) Benzene	11.37	78	46503	0.26	ppb	100
43) Heptane	12.59	43	11698	0.14	ppb	83
51) Toluene	14.83	92	67040	0.56	ppb	99
59) m&p-xylene	17.39	91	51947	0.23	ppb	98
61) Styrene	17.89	104	38559	0.22	ppb	98
63) o-xylene	17.94	91	30544	0.12	ppb	99

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AS021516.D  
Acq On : 16 Feb 2021 12:18 am  
Sample : C2102025-002A  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 22 12:49 2021

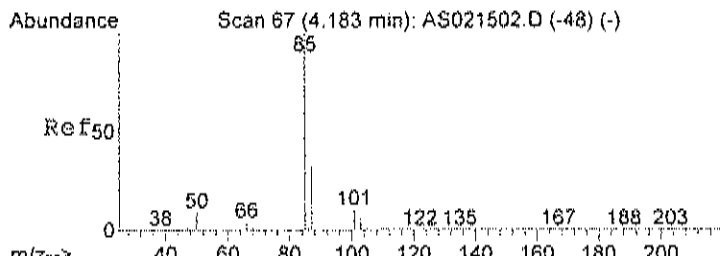
Vial: 12  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration

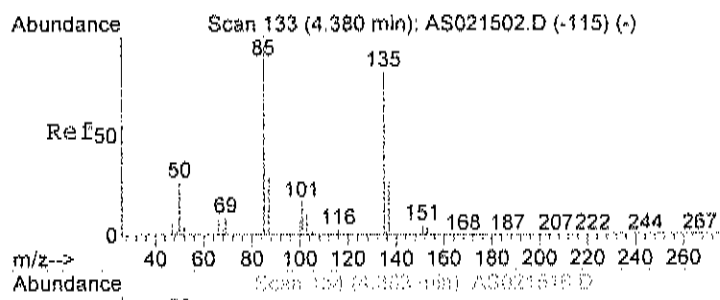
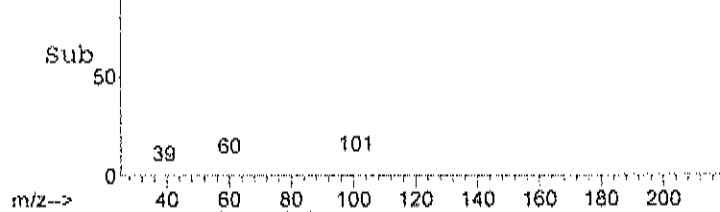
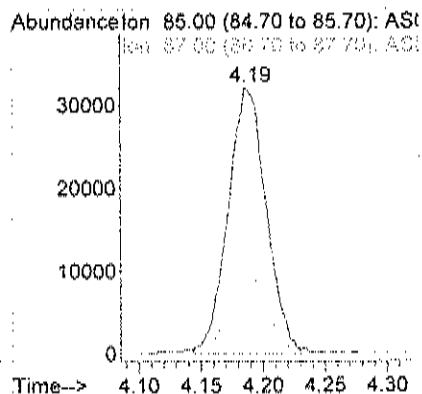
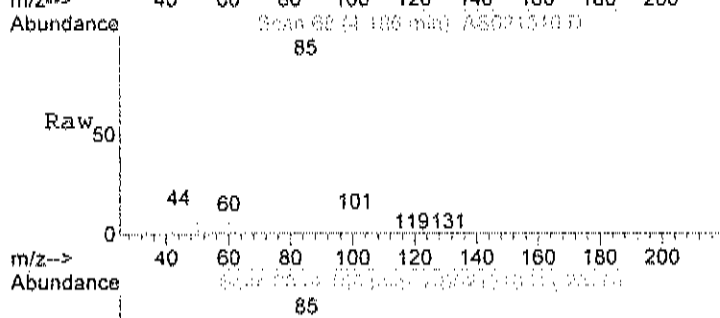
TIC: AS021516.D





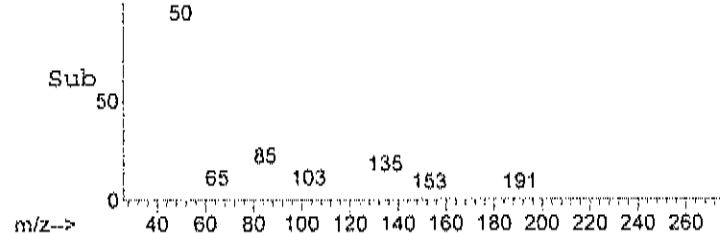
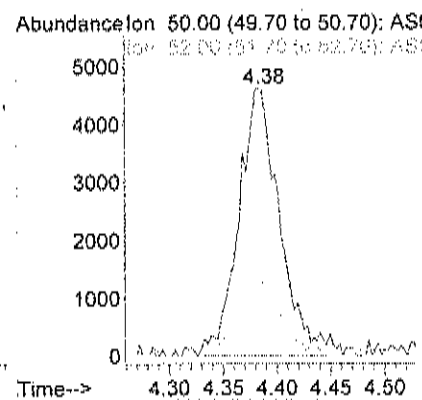
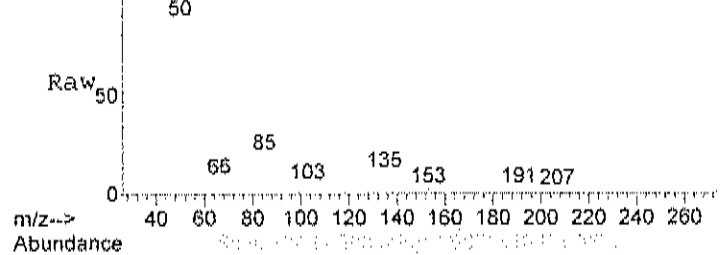
#3  
 Freon 12  
 Concen: 0.39 ppb  
 RT: 4.19 min Scan# 68  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

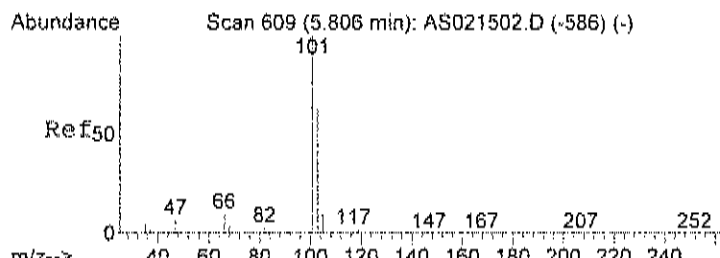
Tgt Ion	Resp	Lower	Upper
85	69104		
87	32.3	14.0	54.0



#4  
 Chloromethane  
 Concen: 0.34 ppb  
 RT: 4.38 min Scan# 134  
 Delta R.T. -0.01 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

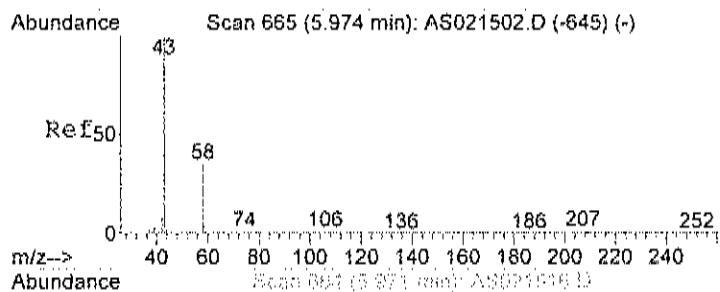
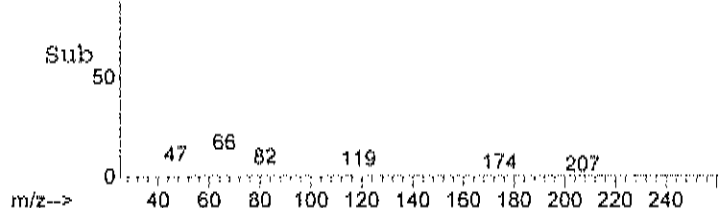
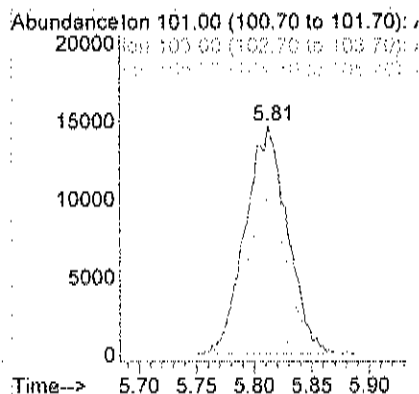
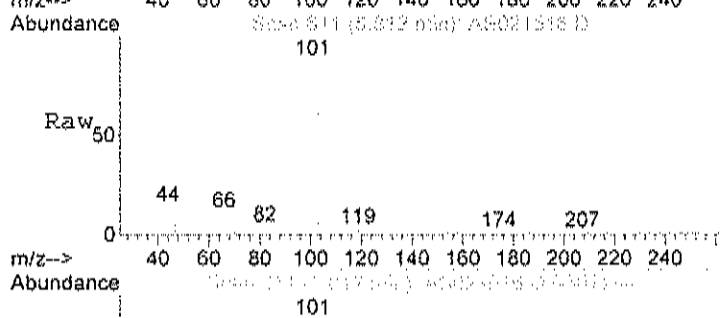
Tgt Ion	Resp	Lower	Upper
50	12372		
52	32.9	6.5	46.5





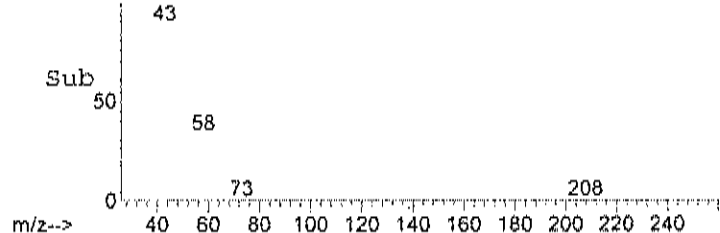
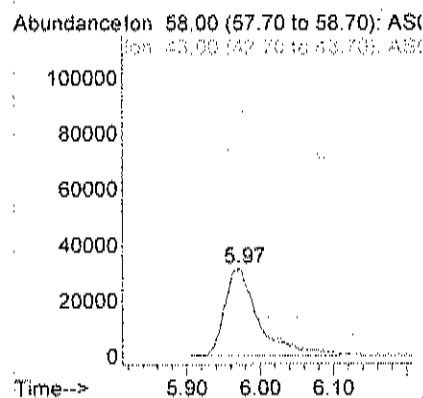
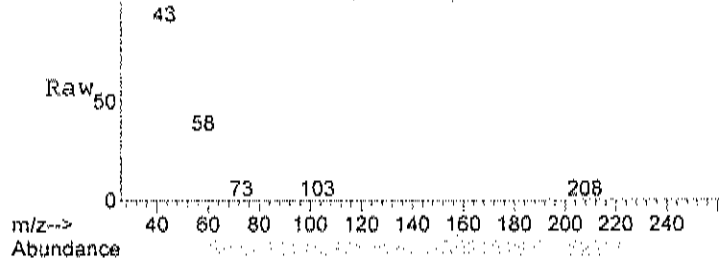
#14  
 Freon 11  
 Concen: 0.21 ppb  
 RT: 5.81 min Scan# 611  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

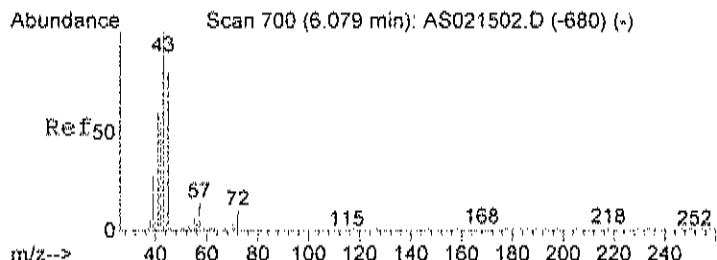
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.5	44.1	84.1
105	11.0	0.0	31.3



#15  
 Acetone  
 Concen: 4.14 ppb  
 RT: 5.97 min Scan# 664  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

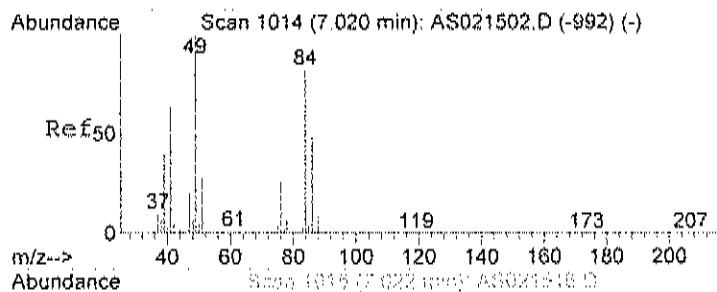
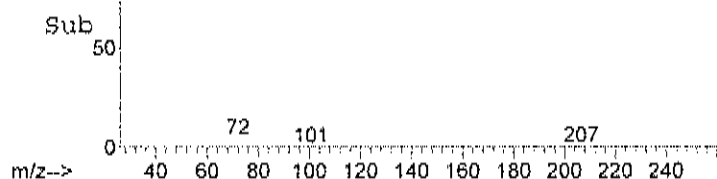
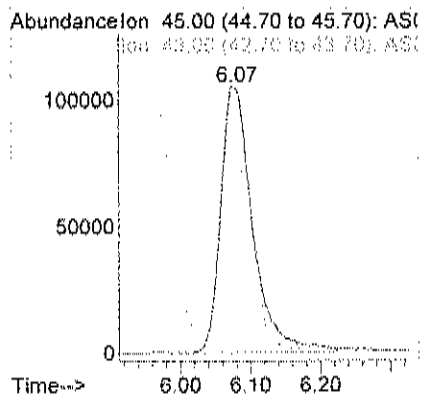
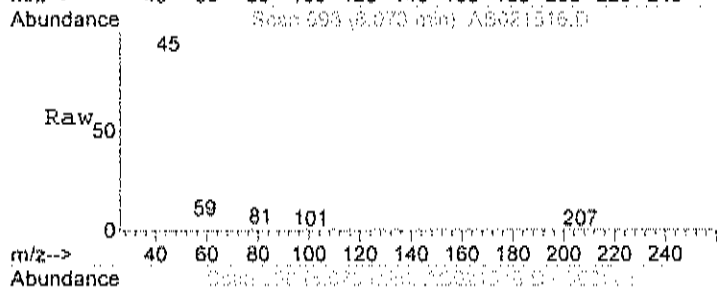
Tgt Ion	Ratio	Lower	Upper
58	100		
43	260.2	195.2	255.2#





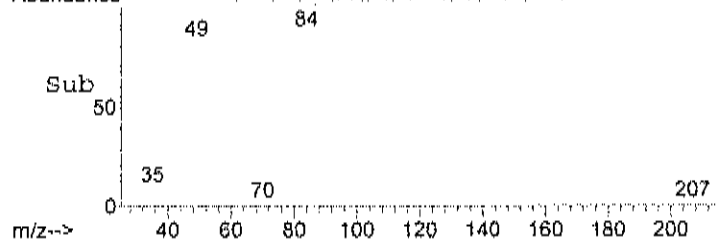
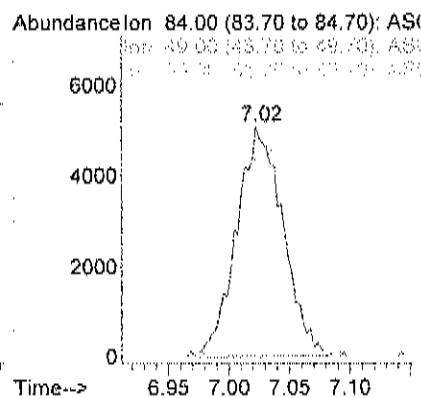
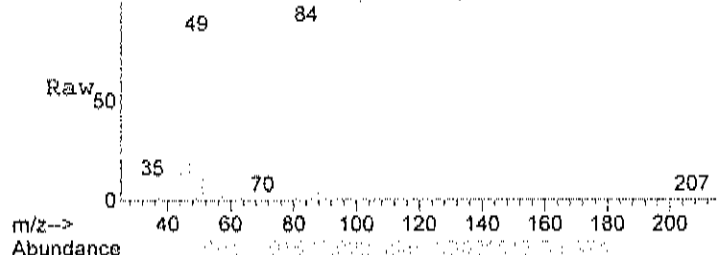
#17  
 Isopropyl alcohol  
 Concen: 6.70 ppb  
 RT: 6.07 min Scan# 698  
 Delta R.T. -0.04 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

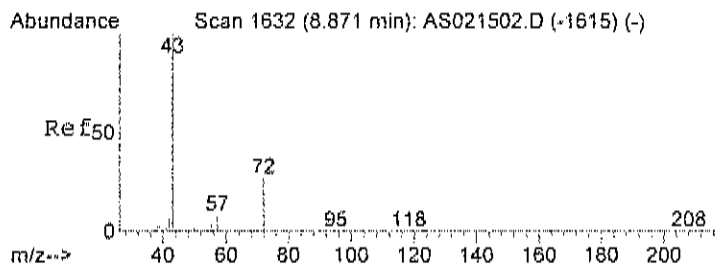
Tgt Ion	Resp	Lower	Upper
45	335568		
45	100		
43	61.6	103.4	143.4#



#21  
 Methylene chloride  
 Concen: 0.26 ppb  
 RT: 7.02 min Scan# 1015  
 Delta R.T. -0.03 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

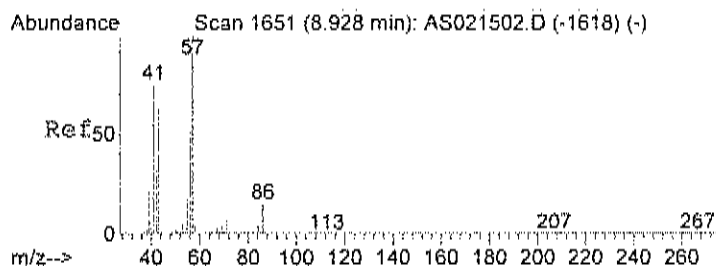
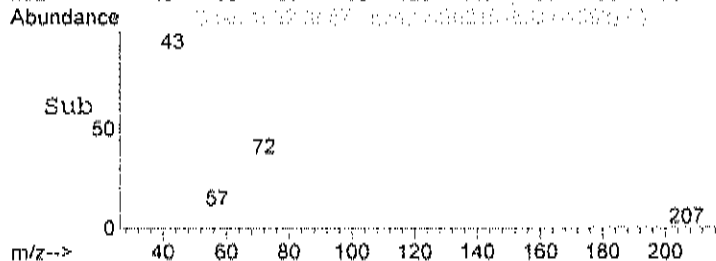
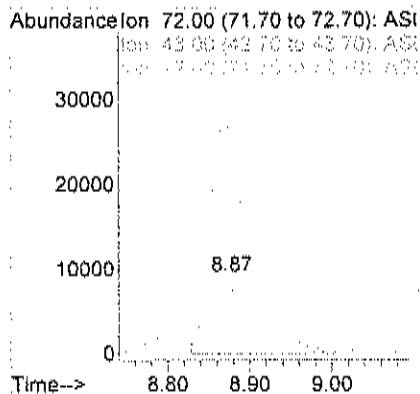
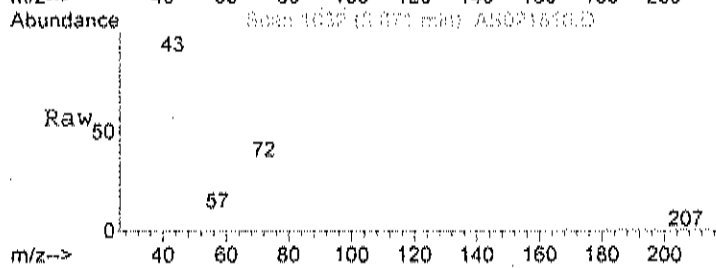
Tgt Ion	Resp	Lower	Upper
84	13607		
84	100		
49	102.3	94.8	134.8
86	70.1	46.1	86.1





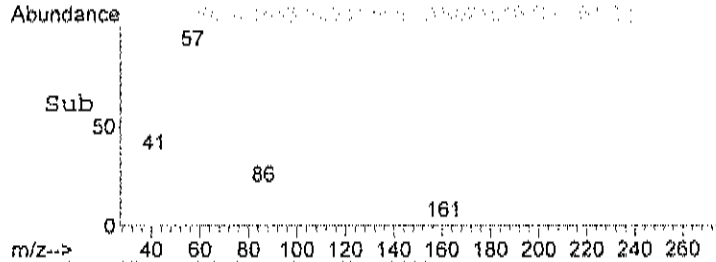
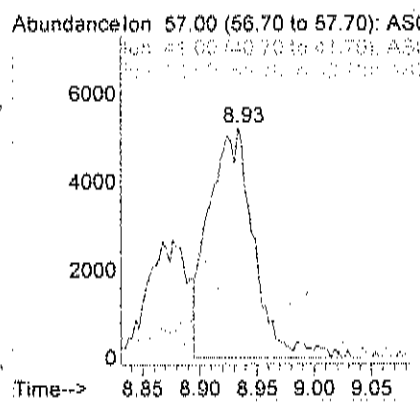
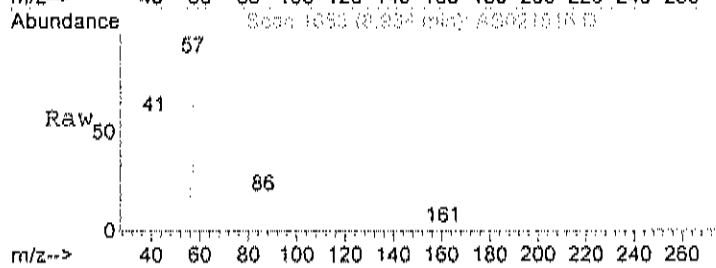
#28  
 Methyl Ethyl Ketone  
 Concen: 1.07 ppb  
 RT: 8.87 min Scan# 1632  
 Delta R.T. -0.03 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

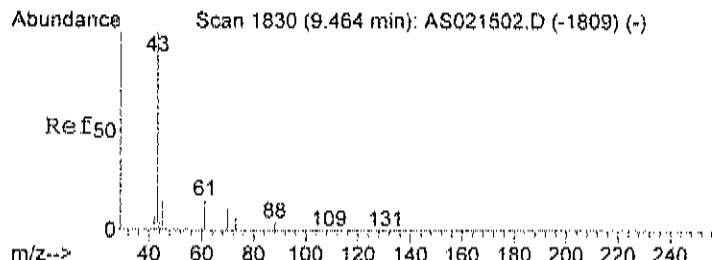
Tgt Ion	Resp	Lower	Upper
72	26123		
72	100		
43	322.9	0.0	20.0#
72	100.0	80.0	120.0



#30  
 Hexane  
 Concen: 0.19 ppb m  
 RT: 8.93 min Scan# 1653  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

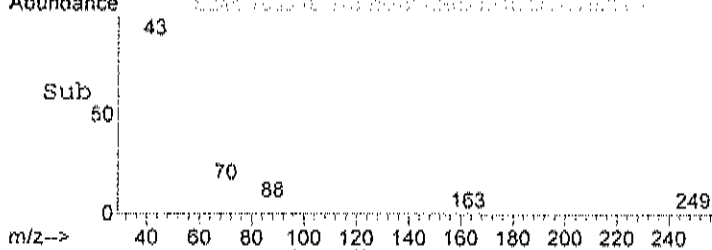
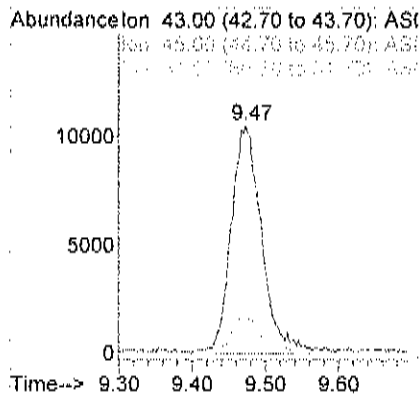
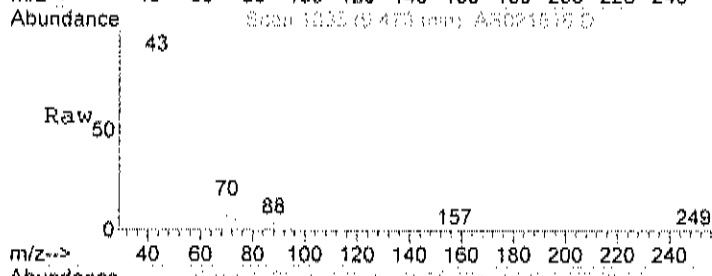
Tgt Ion	Resp	Lower	Upper
57	14223		
57	100		
41	133.2	41.3	81.3#
56	56.8	28.7	68.7





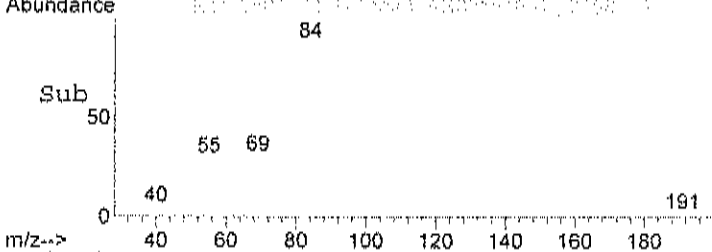
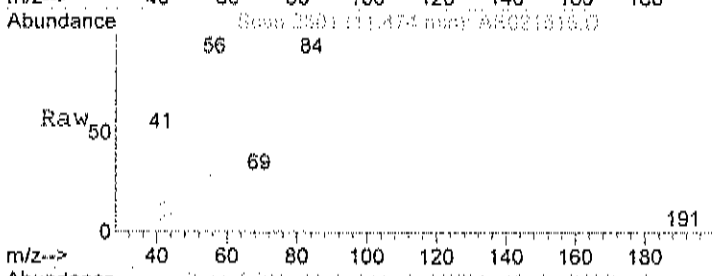
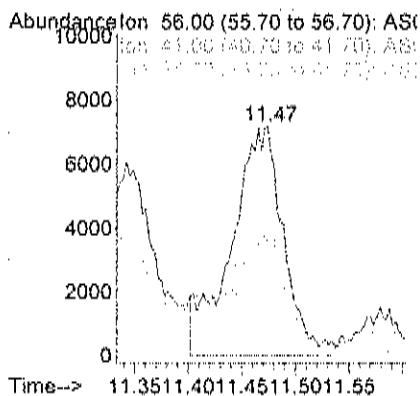
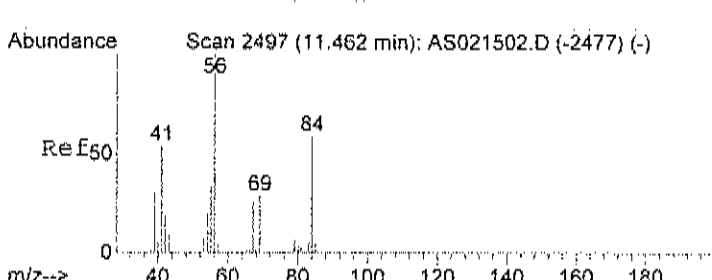
#31  
 Ethyl acetate  
 Concen: 0.23 ppb  
 RT: 9.47 min Scan# 1833  
 Delta R.T. -0.03 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

Tgt Ion	Resp	Lower	Upper
43	30907		
45	16.2	0.0	35.3
61	16.0	0.0	37.2

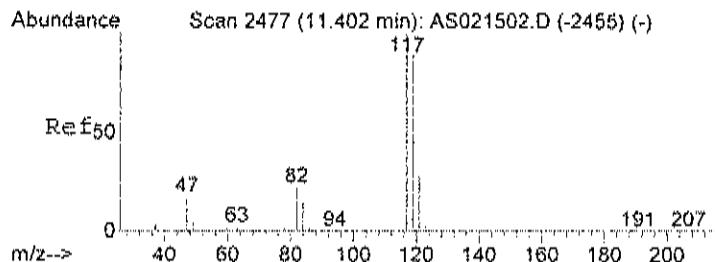


#37  
 Cyclohexane  
 Concen: 0.32 ppb m  
 RT: 11.47 min Scan# 2501  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

Tgt Ion	Resp	Lower	Upper
56	24313		
41	0.0	29.3	69.3#
84	80.6	91.2	131.2#

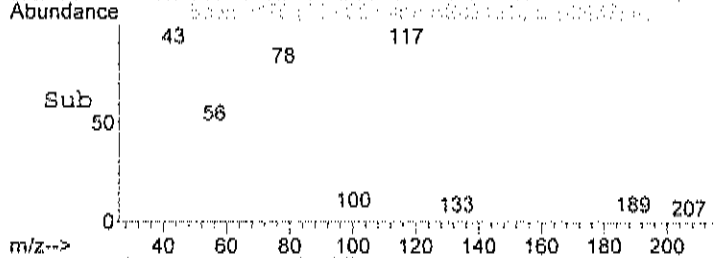
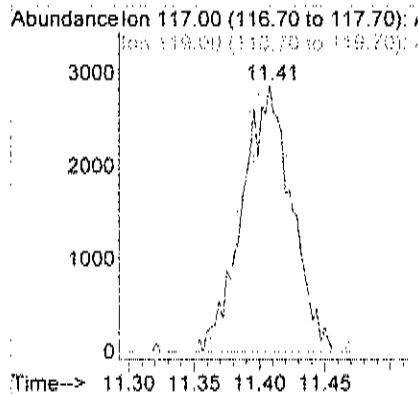
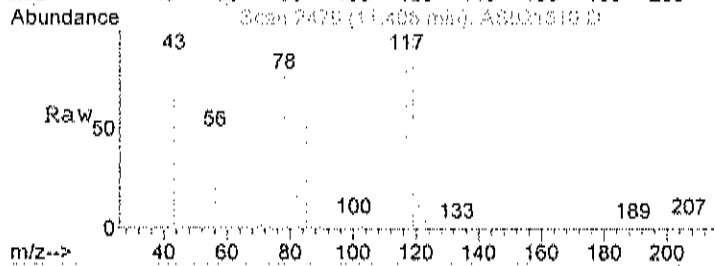






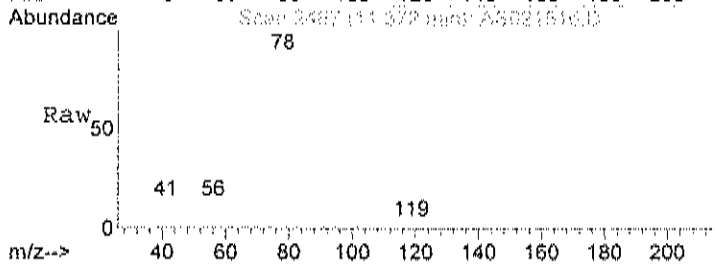
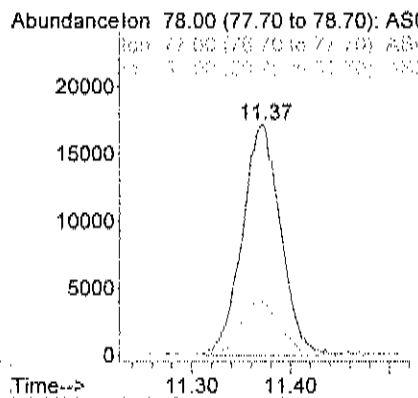
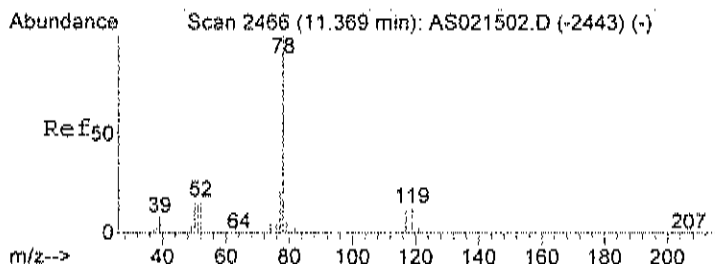
#38  
 Carbon tetrachloride  
 Concen: 0.06 ppb  
 RT: 11.41 min Scan# 2479  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

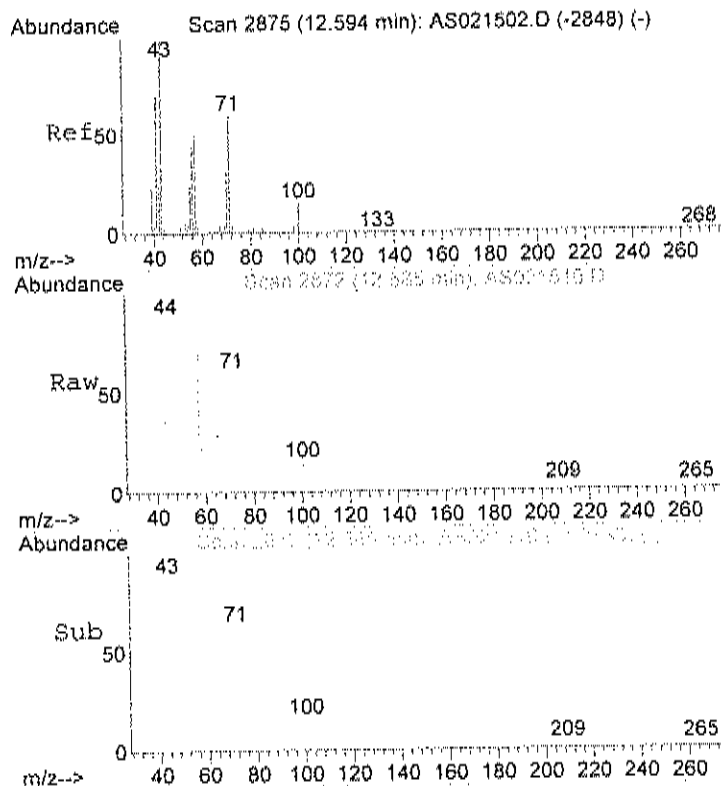
Tgt Ion	Resp	Lower	Upper
117	7511	100	
119	104.9	75.8	115.8



#39  
 Benzene  
 Concen: 0.26 ppb  
 RT: 11.37 min Scan# 2467  
 Delta R.T. -0.03 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

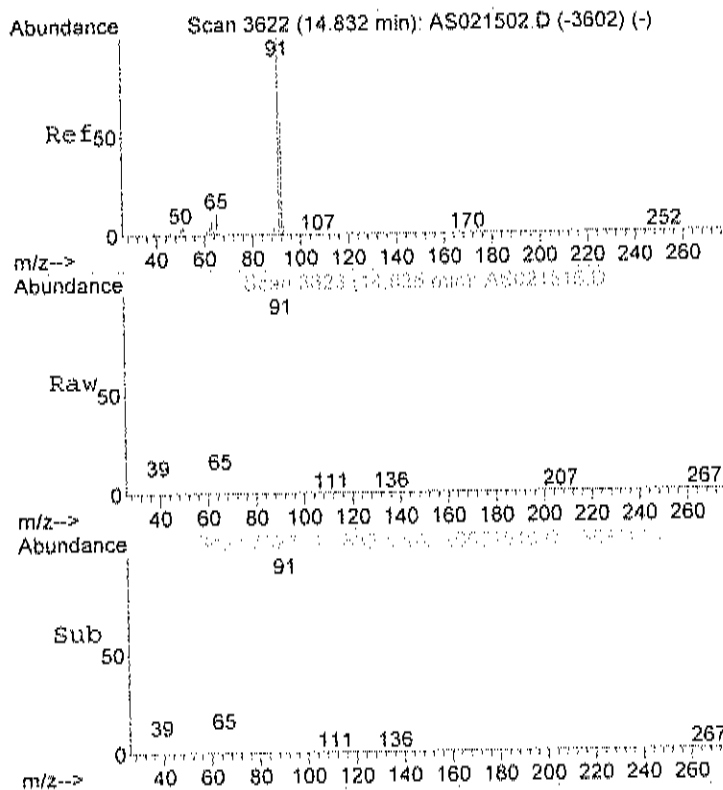
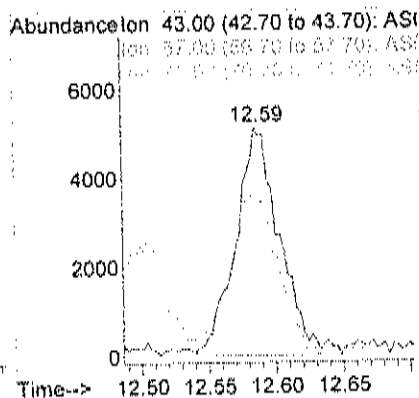
Tgt Ion	Resp	Lower	Upper
78	46503	100	
77	23.3	3.3	43.3
51	15.3	0.0	35.4





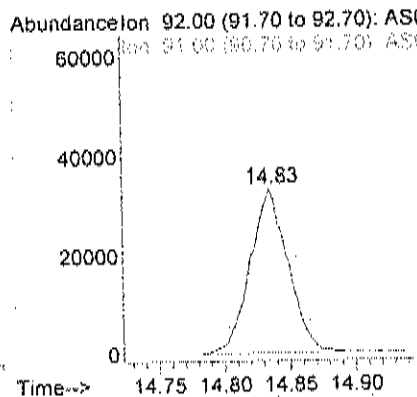
#43  
 Heptane  
 Concen: 0.14 ppb  
 RT: 12.59 min Scan# 2872  
 Delta R.T. -0.03 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

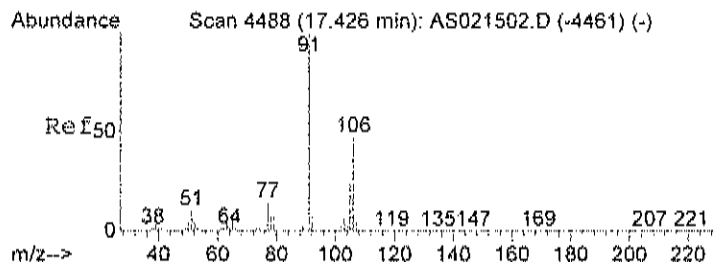
Tgt Ion	Resp	Lower	Upper
43	11698		
57	77.6	40.0	80.0
71	57.6	46.8	86.8



#51  
 Toluene  
 Concen: 0.56 ppb  
 RT: 14.83 min Scan# 3623  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

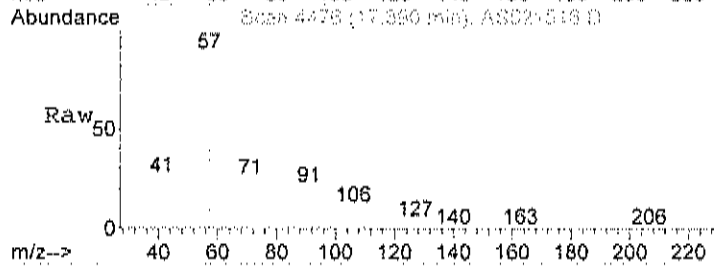
Tgt Ion	Resp	Lower	Upper
92	67040		
91	173.2	154.0	194.0



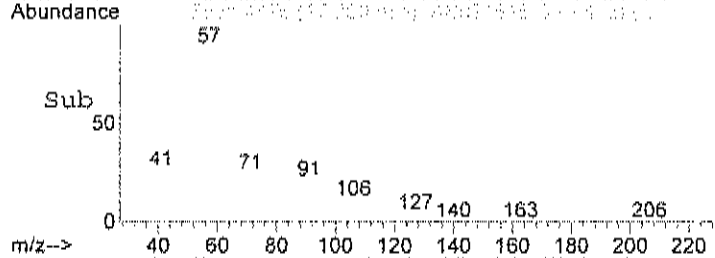
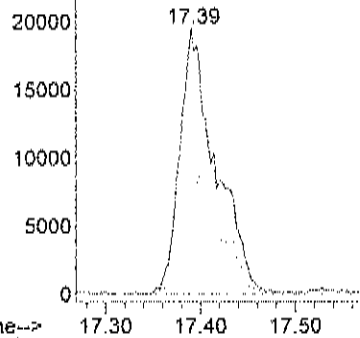


#59  
 m&p-xylene  
 Concen: 0.23 ppb  
 RT: 17.39 min Scan# 4476  
 Delta R.T. -0.06 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

Tgt Ion	Resp	Lower	Upper
91	51947		
106	49.2	30.4	70.4

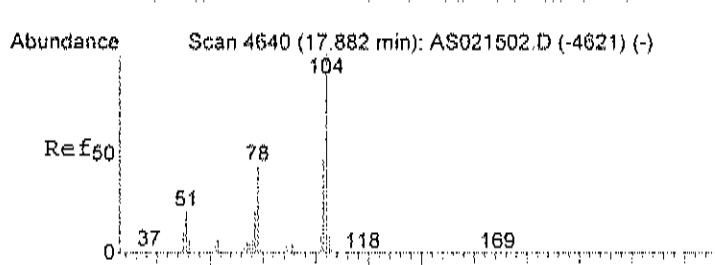


Abundance Ion 91.00 (90.70 to 91.70): AS021516.D

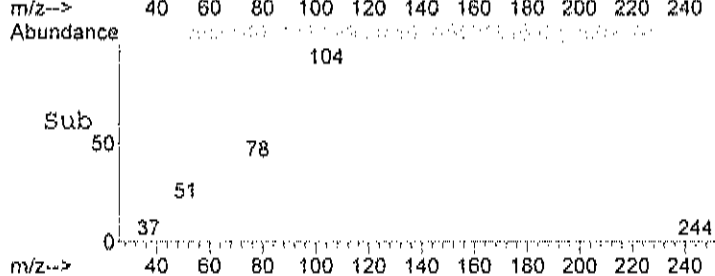
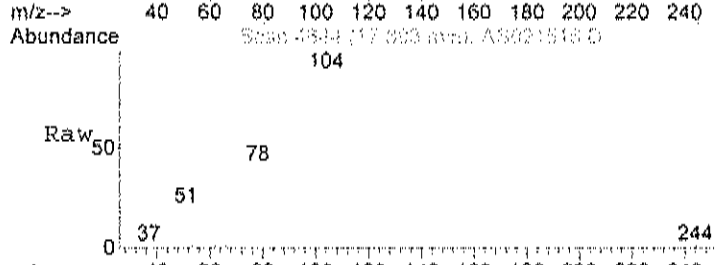
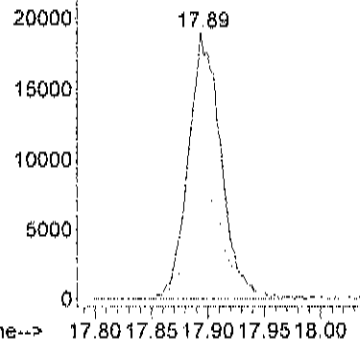


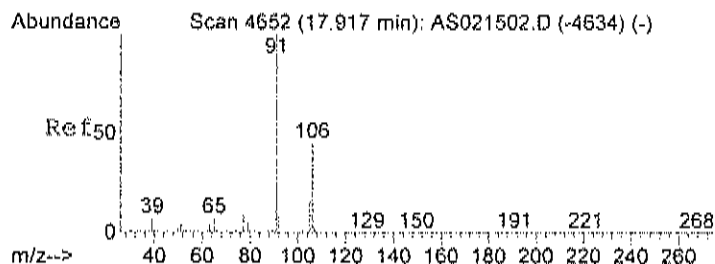
#61  
 Styrene  
 Concen: 0.22 ppb  
 RT: 17.89 min Scan# 4644  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

Tgt Ion	Resp	Lower	Upper
104	38559		
78	47.5	28.5	68.5



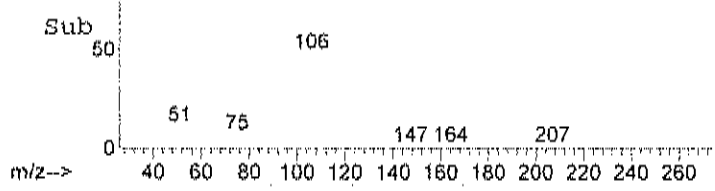
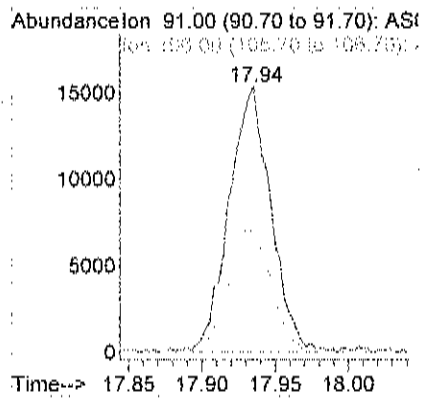
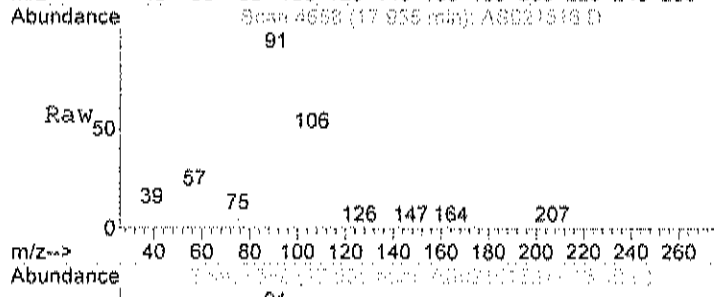
Abundance Ion 104.00 (103.70 to 104.70): AS021516.D





#63  
 o-xylene  
 Concen: 0.12 ppb  
 RT: 17.94 min Scan# 4658  
 Delta R.T. -0.02 min  
 Lab File: AS021516.D  
 Acq: 16 Feb 2021 12:18 am

Tgt Ion	Resp	Lower	Upper
91	30544	1.00	
106	47.4	28.2	68.2



Data File : C:\HPCHEM\1\DATA\AS021606.D  
 Acq On : 16 Feb 2021 1:39 pm  
 Sample : C2102025-002A 10X  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 14:12:27 2021

Vial: 6  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	36221	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.07	114	171790	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.89	117	152308	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.69	95	112177	0.99	ppb	-0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	99.00%
Target Compounds						Qvalue
15) Acetone	5.98	58	9927	0.45	ppb	# 77
17) Isopropyl alcohol	6.09	45	30612	0.69	ppb	# 42

Quantitation Report (QT Reviewed)

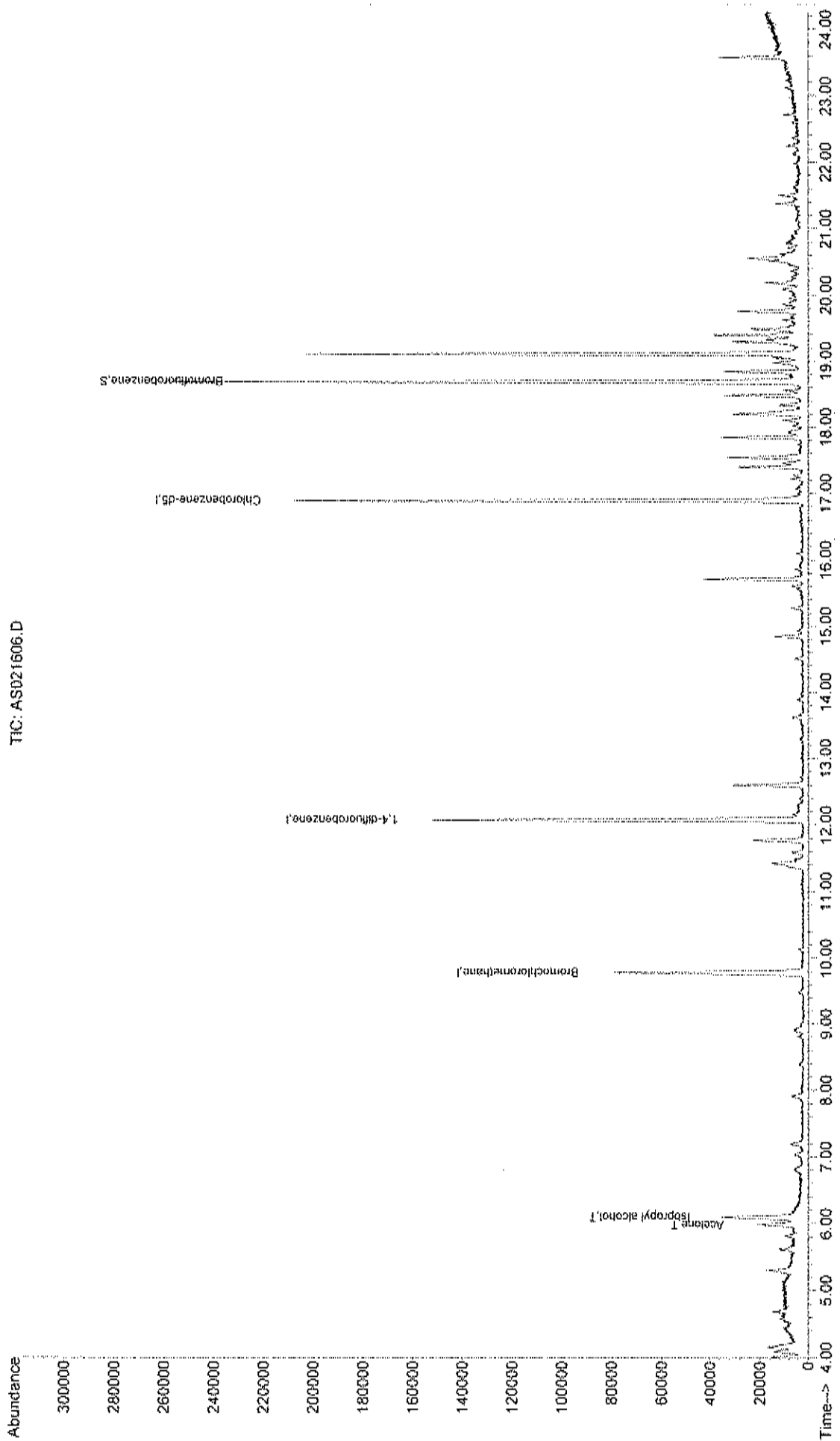
Data File : C:\HPCHEM\1\DATA\AS021606.D  
Acq On : 16 Feb 2021 1:39 pm  
Sample : C2102025-002A 10X  
Misc : A123\_IUG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 22 14:26 2021

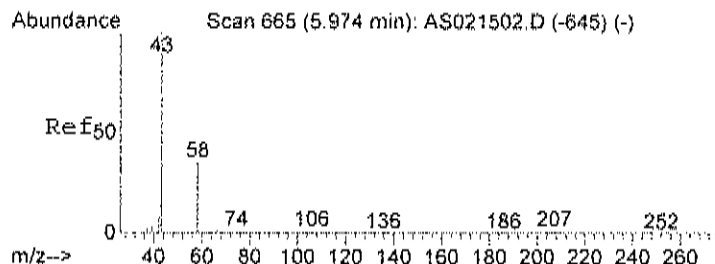
Vial: 6  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration

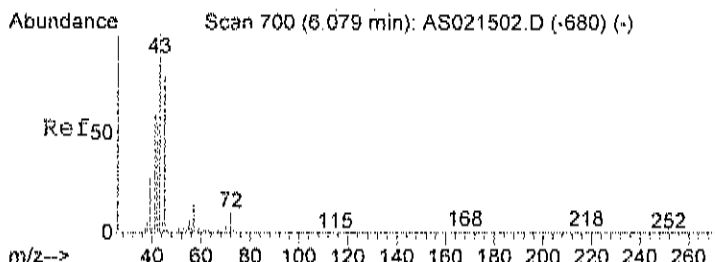
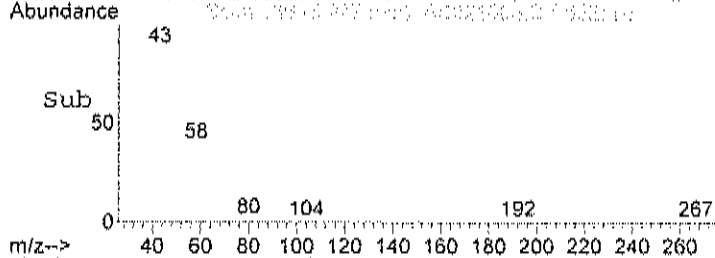
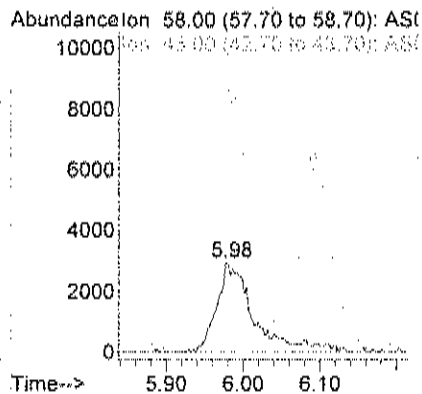
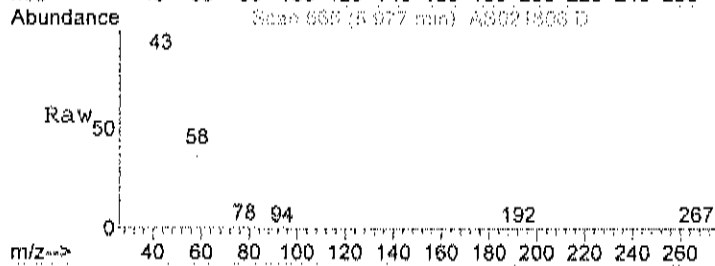
THC: AS021606.D





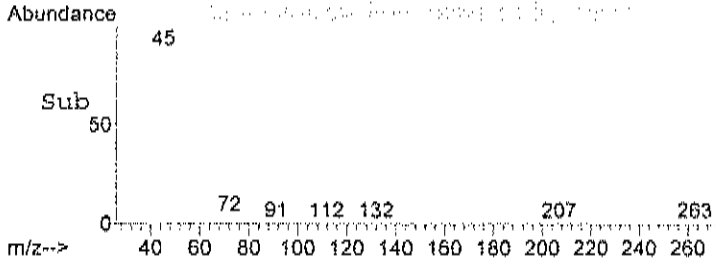
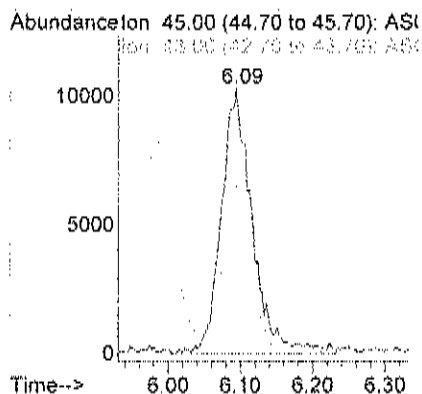
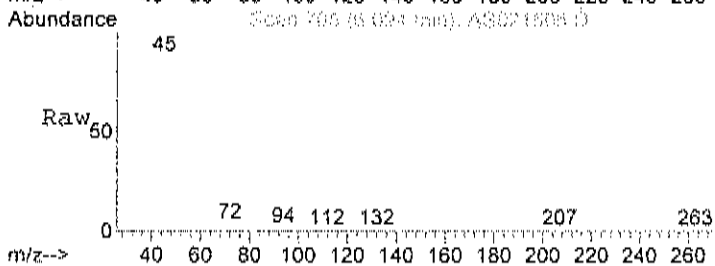
#15  
 Acetone  
 Concen: 0.45 ppb  
 RT: 5.98 min Scan# 666  
 Delta R.T. -0.02 min  
 Lab File: AS021606.D  
 Acq: 16 Feb 2021 1:39 pm

Tgt Ion	Resp	Lower	Upper
58	9927		
43	262.4	195.2	255.2#



#17  
 Isopropyl alcohol  
 Concen: 0.69 ppb  
 RT: 6.09 min Scan# 705  
 Delta R.T. -0.01 min  
 Lab File: AS021606.D  
 Acq: 16 Feb 2021 1:39 pm

Tgt Ion	Resp	Lower	Upper
45	30612		
43	57.6	103.4	143.4#



**Centek Laboratories, LLC**

Date: 23-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-003A

**Client Sample ID:** Trip Blank Summa  
**Tag Number:** 215  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>		<b>FLD</b>			<b>Analyst:</b>	
Lab Vacuum In	+16			"Hg		2/15/2021
Lab Vacuum Out	+49			"Hg		2/15/2021
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>			<b>Analyst: RJP</b>	
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Acetone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Benzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Carbon tetrachloride	< 0.030	0.030		ppbV	1	2/15/2021 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	2/15/2021 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM

<b>Qualifiers:</b>	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL	Detection Limit



**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-003A

**Client Sample ID:** Trip Blank Summa  
**Tag Number:** 215  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>						
		<b>TO-15</b>				<b>Analyst: RJP</b>
Ethylbenzene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 11	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Freon 12	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Heptane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/15/2021 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Toluene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Trichloroethene	< 0.030	0.030		ppbV	1	2/15/2021 10:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/15/2021 10:50:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	2/15/2021 10:50:00 PM
Surr: Bromofluorobenzene	98.0	47-124		%REC	1	2/15/2021 10:50:00 PM

<b>Qualifiers:</b>	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

CLIENT: Leader Consulting Services  
 Lab Order: C2102025  
 Project: Vails Gate Manufacturing  
 Lab ID: C2102025-003A

Client Sample ID: Trip Blank Summa  
 Tag Number: 215  
 Collection Date: 2/9/2021  
 Matrix: AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>						Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	2/15/2021 10:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 10:50:00 PM
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	2/15/2021 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	2/15/2021 10:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	2/15/2021 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	2/15/2021 10:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 10:50:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	2/15/2021 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	2/15/2021 10:50:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	2/15/2021 10:50:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
Acetone	< 0.71	0.71		ug/m3	1	2/15/2021 10:50:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	2/15/2021 10:50:00 PM
Benzene	< 0.48	0.48		ug/m3	1	2/15/2021 10:50:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	2/15/2021 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	2/15/2021 10:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	2/15/2021 10:50:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	2/15/2021 10:50:00 PM
Carbon tetrachloride	< 0.19	0.19		ug/m3	1	2/15/2021 10:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	2/15/2021 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	2/15/2021 10:50:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	2/15/2021 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	2/15/2021 10:50:00 PM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 10:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 10:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	2/15/2021 10:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	2/15/2021 10:50:00 PM
Ethyl acetate	< 0.54	0.54		ug/m3	1	2/15/2021 10:50:00 PM
Ethylbenzene	< 0.65	0.65		ug/m3	1	2/15/2021 10:50:00 PM
Freon 11	< 0.84	0.84		ug/m3	1	2/15/2021 10:50:00 PM
Freon 113	< 1.1	1.1		ug/m3	1	2/15/2021 10:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM

Qualifiers: SC Sub-Contracted  
 B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 JN Non-routine analyte. Quantitation estimated.  
 S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected  
 E Estimated Value above quantitation range  
 J Analyte detected below quantitation limit  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**Centek Laboratories, LLC**

Date: 25-Feb-21

**CLIENT:** Leader Consulting Services  
**Lab Order:** C2102025  
**Project:** Vails Gate Manufacturing  
**Lab ID:** C2102025-003A

**Client Sample ID:** Trip Blank Summa  
**Tag Number:** 215  
**Collection Date:** 2/9/2021  
**Matrix:** AIR

Analyses	Result	DL	Qual	Units	DF	Date Analyzed
<b>1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE</b>		<b>TO-15</b>		<b>Analyst: RJP</b>		
Freon 12	< 0.74	0.74		ug/m3	1	2/15/2021 10:50:00 PM
Heptane	< 0.61	0.61		ug/m3	1	2/15/2021 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	2/15/2021 10:50:00 PM
Hexane	< 0.53	0.53		ug/m3	1	2/15/2021 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	2/15/2021 10:50:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	2/15/2021 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 10:50:00 PM
Methyl Ethyl Ketone	< 0.88	0.88		ug/m3	1	2/15/2021 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	2/15/2021 10:50:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	2/15/2021 10:50:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	2/15/2021 10:50:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	2/15/2021 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	2/15/2021 10:50:00 PM
Styrene	< 0.64	0.64		ug/m3	1	2/15/2021 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	2/15/2021 10:50:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	2/15/2021 10:50:00 PM
Toluene	< 0.57	0.57		ug/m3	1	2/15/2021 10:50:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	2/15/2021 10:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	2/15/2021 10:50:00 PM
Trichloroethene	< 0.16	0.16		ug/m3	1	2/15/2021 10:50:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	2/15/2021 10:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	2/15/2021 10:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	2/15/2021 10:50:00 PM

<b>Qualifiers:</b>	SC	Sub-Contracted	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits	DL	Detection Limit

Data File : C:\HPCHEM\1\DATA\AS021514.D  
 Acq On : 15 Feb 2021 10:50 pm  
 Sample : C2102025-003A  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:52 2021

Vial: 10  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	42943	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.06	114	209659	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	188051	1.00	ppb	-0.02
System Monitoring Compounds						
65) Bromofluorobenzene	18.68	95	137431	0.98	ppb	-0.02
Spiked Amount	1.000	Range 70 - 130	Recovery	=	98.00%	

Target Compounds

Qvalue

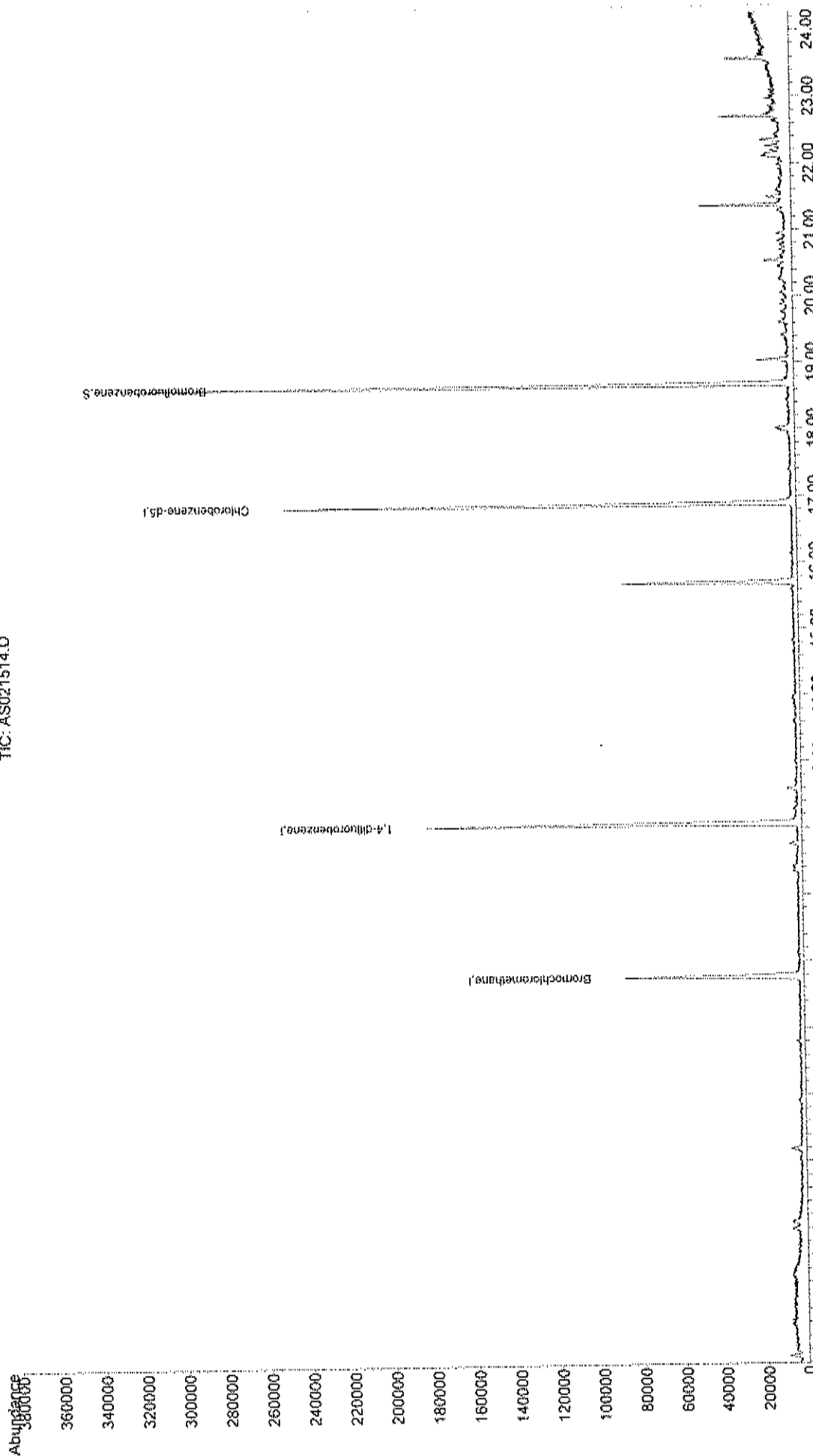
Data File : C:\HPCHEM\1\DATA\AS021514.D  
Acq On : 15 Feb 2021 10:50 pm  
Sample : C2102025-003A  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 22 12:47 2021

Vial: 10  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration

TIC: AS021514.D



**GC/MS VOLATILES-WHOLE AIR**

**METHOD TO-15**

**STANDARDS DATA**

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 12:58:36 2021  
 Response via : Initial Calibration

Calibration Files

2.0 =AS012303.D 1.50 =AS012304.D 1.25 =AS012305.D  
 1.0 =AS012306.D 0.75 =AS012307.D 0.50 =AS012308.D

Compound	2.0	1.50	1.25	1.0	0.75	0.50	Avg	%RSD
-----ISTD-----								
1) I Bromochloromethane								
2) T Propylene	0.749	0.719	0.762	0.747	0.768	0.754	0.774	6.24
3) T Freon 12	4.180	4.190	4.203	4.256	4.268	4.326	4.340	5.26
4) T Chloromethane	0.845	0.854	0.829	0.838	0.857	0.889	0.892	9.03
5) T Freon 114	3.065	3.102	3.081	3.094	3.155	3.156	3.183	4.99
6) T Vinyl Chloride	0.854	0.834	0.873	0.859	0.870	0.885	0.944	16.12
7) T Butane	0.808	0.781	0.836	0.838	0.893	0.871	0.877	9.15
8) T 1,3-butadiene	0.605	0.610	0.625	0.604	0.678	0.725	0.667	10.12
9) T Bromomethane	1.128	1.127	1.141	1.161	1.181	1.143	1.204	10.08
10) T Chloroethane	0.396	0.406	0.403	0.420	0.431	0.425	0.433	8.83
11) T Ethanol	0.143	0.157	0.163	0.148	0.155	0.156	0.164	14.83
12) T Acrolein	0.170	0.245	0.184	0.208	0.209	0.197	0.215	18.13
13) T Vinyl Bromide	1.117	1.372	1.140	1.166	1.163	1.156	1.213	7.97
14) T Freon 11	3.945	4.900	3.940	4.241	4.290	4.034	4.412	14.14
15) T Acetone	0.507	0.671	0.524	0.584	0.599	0.606	0.614	17.04
16) T Pentane	0.870	1.096	0.846	0.912	0.912	0.918	0.980	15.74
17) T Isopropyl alcoh	1.143	1.251	1.149	1.201	1.244	1.259	1.233	5.41
18) T 1,1-dichloroeth	1.314	1.253	1.320	1.318	1.338	1.316	1.382	10.10
19) T Freon 113	3.106	3.046	3.124	3.205	3.241	3.165	3.233	5.37
20) t t-Butyl alcohol	1.948	1.836	1.914	1.918	1.956	1.935	1.932	2.37
21) T Methylene chlor	1.219	1.195	1.208	1.233	1.263	1.284	1.277	6.97
22) T Allyl chloride	1.224	1.185	1.185	1.201	1.184	1.193	1.227	5.55
23) T Carbon disulfid	3.669	3.585	3.684	3.771	3.889	3.957	4.015	13.35
24) T trans-1,2-dichl	1.852	1.810	1.842	1.812	1.840	1.841	1.860	3.01
25) T methyl tert-but	3.123	3.019	3.131	3.042	3.072	3.023	3.109	2.99
26) T 1,1-dichloroeth	2.301	2.283	2.319	2.313	2.360	2.334	2.398	6.11
27) T Vinyl acetate	0.743	0.705	0.717	0.737	0.716	0.735	0.737	3.38
28) T Methyl Ethyl Ke	0.619	0.571	0.601	0.585	0.619	0.593	0.603	3.12
29) T cis-1,2-dichlor	1.741	1.693	1.759	1.694	1.710	1.748	1.825	10.19
30) T Hexane	1.855	1.782	1.814	1.769	1.787	1.750	1.799	2.01
31) T Ethyl acetate	3.419	3.320	3.378	3.396	3.380	3.280	3.368	2.23
32) T Chloroform	3.191	3.134	3.208	3.205	3.260	3.245	3.303	6.00
33) T Tetrahydrofuran	1.096	1.070	1.095	1.083	1.081	1.037	1.087	2.68
34) T 1,2-dichloroeth	2.086	2.076	2.097	2.067	2.130	2.137	2.150	5.85
-----ISTD-----								
35) I 1,4-difluorobenzene								
36) T 1,1,1-trichloro	0.618	0.610	0.615	0.602	0.601	0.612	0.624	4.47
37) T Cyclohexane	0.382	0.381	0.367	0.369	0.374	0.361	0.374	2.75
38) T Carbon tetrachl	0.566	0.571	0.539	0.541	0.530	0.533	0.600	14.37
39) T Benzene	0.887	0.880	0.868	0.871	0.894	0.900	0.906	4.98
40) T Methyl methacry	0.328	0.323	0.316	0.310	0.301	0.299	0.312	3.34
41) T 1,4-dioxane	0.218	0.213	0.212	0.208	0.209	0.207	0.217	6.02
42) T 2,2,4-trimethyl	1.207	1.221	1.183	1.180	1.167	1.198	1.209	3.14
43) T Heptane	0.424	0.427	0.405	0.405	0.397	0.405	0.413	2.97
44) T Trichloroethene	0.468	0.469	0.461	0.460	0.459	0.480	0.498	8.48
45) T 1,2-dichloropro	0.322	0.326	0.320	0.320	0.318	0.326	0.331	5.54
46) T Bromodichlorome	0.694	0.706	0.674	0.678	0.684	0.697	0.705	5.01
47) T cis-1,3-dichlor	0.471	0.467	0.447	0.443	0.448	0.446	0.453	2.31
48) T trans-1,3-dichl	0.332	0.331	0.323	0.303	0.311	0.292	0.315	4.47
49) T 1,1,2-trichloro	0.419	0.436	0.415	0.416	0.422	0.444	0.435	4.97
-----ISTD-----								
50) I Chlorobenzene-d5								
51) T Toluene	0.674	0.685	0.676	0.676	0.669	0.671	0.679	1.66



## Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 12:58:36 2021  
 Response via : Initial Calibration

## Calibration Files

2.0 =AS012303.D 1.50 =AS012304.D 1.25 =AS012305.D  
 1.0 =AS012306.D 0.75 =AS012307.D 0.50 =AS012308.D

Compound	2.0	1.50	1.25	1.0	0.75	0.50	Avg	%RSD
52) T Methyl Isobutyl	0.631	0.625	0.620	0.619	0.619	0.598	0.627	3.10
53) T Dibromochlorome	0.725	0.735	0.711	0.711	0.709	0.705	0.724	3.07
54) T Methyl Butyl Ke	0.631	0.620	0.624	0.612	0.601	0.579	0.609	2.70
55) T 1,2-dibromoetha	0.699	0.704	0.698	0.693	0.681	0.679	0.697	1.80
56) T Tetrachloroethy	0.515	0.533	0.522	0.534	0.525	0.528	0.555	8.71
57) T Chlorobenzene	1.033	1.039	1.045	1.048	1.066	1.035	1.065	3.96
58) T Ethylbenzene	1.590	1.593	1.571	1.562	1.537	1.513	1.558	1.76
59) T m&p-xylene	1.299	1.333	1.303	1.305	1.267	1.229	1.278	2.90
60) T Nonane	0.671	0.725	0.704	0.716	0.671	0.654	0.676	5.43
61) T Styrene	0.982	1.028	0.992	1.006	0.971	0.947	0.977	3.18
62) T Bromoform	0.667	0.671	0.652	0.642	0.639	0.617	0.646	2.71
63) T o-xylene	1.401	1.496	1.445	1.458	1.536	1.383	1.445	3.58
64) T Cumene	1.819	1.917	1.868	1.838	1.793	1.727	1.807	3.67
65) S Bromofluorobenz	0.756	0.803	0.782	0.785	0.762	0.752	0.745	5.15
66) T 1,1,2,2-tetrach	0.974	1.049	1.040	1.043	1.045	1.063	1.062	5.30
67) T Propylbenzene	0.509	0.531	0.523	0.510	0.500	0.487	0.503	3.68
68) T 2-Chlorotoluene	0.490	0.527	0.511	0.517	0.499	0.488	0.502	3.05
69) T 4-ethyltoluene	1.858	1.964	1.894	1.914	1.800	1.741	1.834	4.67
70) T 1,3,5-trimethyl	1.628	1.722	1.639	1.685	1.575	1.564	1.615	4.01
71) T 1,2,4-trimethyl	1.561	1.656	1.593	1.591	1.537	1.446	1.534	5.30
72) T 1,3-dichloroben	1.139	1.197	1.187	1.181	1.151	1.148	1.164	1.89
73) T benzyl chloride	0.434	0.430	0.441	0.406	0.413	0.406	0.412	5.66
74) T 1,4-dichloroben	1.154	1.214	1.191	1.187	1.115	1.100	1.152	3.68
75) T 1,2,3-trimethyl	1.596	1.685	1.619	1.615	1.501	1.473	1.548	6.26
76) T 1,2-dichloroben	1.109	1.141	1.113	1.140	1.070	1.056	1.099	2.90
77) T 1,2,4-trichloro	0.834	0.771	0.732	0.725	0.661	0.628	0.699	11.31
78) T Naphthalene	1.898	1.783	1.691	1.660	1.509	1.387	1.546	12.53
79) T Hexachloro-1,3-	0.975	0.981	0.930	0.949	0.915	0.935	0.964	4.33

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012303.D Vial: 2  
 Acq On : 23 Jan 2021 9:56 am Operator: RJP  
 Sample : A1UG\_2.0 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:47:59 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	49329	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.08	114	221244	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	211396	1.00	ppb	0.00

System Monitoring Compounds  
 65) Bromofluorobenzene 18.65 95 159724 0.96 ppb -0.05  
 Spiked Amount 1.000 Range 70 - 130 Recovery = 96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	73879	2.01	ppb	97
3) Freon 12	4.19	85	412349	1.96	ppb	98
4) Chloromethane	4.40	50	83356	2.02	ppb	96
5) Freon 114	4.40	85	302422	1.98	ppb	100
6) Vinyl Chloride	4.59	62	84256	1.99	ppb	97
7) Butane	4.69	43	79761	1.93	ppb	98
8) 1,3-butadiene	4.69	39	59654	2.00	ppb	98
9) Bromomethane	5.04	94	111269	1.94	ppb	99
10) Chloroethane	5.21	64	39021	1.88	ppb	94
11) Ethanol	5.31	45	14071m	1.73	ppb	
12) Acrolein	5.88	56	16811m	1.64	ppb	
13) Vinyl Bromide	5.55	106	110231	1.92	ppb	100
14) Freon 11	5.82	101	389196	1.86	ppb	99
15) Acetone	5.99	58	50011	1.73	ppb	# 70
16) Pentane	6.10	42	85861	1.91	ppb	96
17) Isopropyl alcohol	6.09	45	112726	1.90	ppb	86
18) 1,1-dichloroethene	6.58	96	129600	1.99	ppb	# 88
19) Freon 113	6.78	101	306473	1.94	ppb	100
20) t-Butyl alcohol	6.81	59	192195	2.03	ppb	# 87
21) Methylene chloride	7.04	84	120250	1.98	ppb	98
22) Allyl chloride	7.02	41	120781	2.04	ppb	98
23) Carbon disulfide	7.20	76	361968	1.95	ppb	97
24) trans-1,2-dichloroethene	7.98	61	182728	2.04	ppb	93
25) methyl tert-butyl ether	7.99	73	308143	2.05	ppb	85
26) 1,1-dichloroethane	8.40	63	227000	1.99	ppb	98
27) Vinyl acetate	8.39	43	73352	2.02	ppb	99
28) Methyl Ethyl Ketone	8.88	72	61117	2.12	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	171716	2.05	ppb	97
30) Hexane	8.94	57	183021	2.10	ppb	93
31) Ethyl acetate	9.49	43	337359	2.01	ppb	98
32) Chloroform	9.95	83	314802	1.99	ppb	99
33) Tetrahydrofuran	10.11	42	108169	2.02	ppb	95
34) 1,2-dichloroethane	11.06	62	205798	2.02	ppb	100
36) 1,1,1-trichloroethane	10.78	97	273573	2.05	ppb	99
37) Cyclohexane	11.49	56	169027	2.07	ppb	97
38) Carbon tetrachloride	11.43	117	250655	2.10	ppb	100
39) Benzene	11.39	78	392269	2.04	ppb	97
40) Methyl methacrylate	12.97	41	145180	2.11	ppb	93
41) 1,4-dioxane	12.97	88	96341	2.09	ppb	99
42) 2,2,4-trimethylpentane	12.26	57	533908	2.05	ppb	93
43) Heptane	12.60	43	187473	2.09	ppb	96
44) Trichloroethene	12.73	130	207140	2.03	ppb	99
45) 1,2-dichloropropane	12.84	63	142502	2.01	ppb	97

(#) = qualifier out of range (m) = manual integration

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012303.D  
 Acq On : 23 Jan 2021 9:56 am  
 Sample : A1UG\_2.0  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:47:59 2021

Vial: 2  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.17	83	307112	2.05	ppb	100
47) cis-1,3-dichloropropene	14.00	75	208528	2.13	ppb	97
48) trans-1,3-dichloropropene	14.77	75	147009	2.19	ppb	93
49) 1,1,2-trichloroethane	15.10	97	185251	2.01	ppb	99
51) Toluene	14.85	92	285029	2.00	ppb	98
52) Methyl Isobutyl Ketone	13.91	43	266925	2.04	ppb	94
53) Dibromochloromethane	15.83	129	306633	2.04	ppb	99
54) Methyl Butyl Ketone	15.28	43	266754	2.06	ppb	92
55) 1,2-dibromoethane	16.10	107	295563	2.02	ppb	99
56) Tetrachloroethylene	15.93	164	217753	1.93	ppb	99
57) Chlorobenzene	16.95	112	436874	1.97	ppb	100
58) Ethylbenzene	17.23	91	672274	2.04	ppb	100
59) m&p-xylene	17.44	91	1098266	3.98	ppb	97
60) Nonane	17.84	43	283574	1.87	ppb	91
61) Styrene	17.90	104	415183	1.95	ppb	92
62) Bromoform	18.02	173	282015	2.08	ppb	100
63) o-xylene	17.93	91	592240	1.92	ppb	97
64) Cumene	18.53	105	769237	1.98	ppb	98
66) 1,1,2,2-tetrachloroethane	18.41	83	411720	1.87	ppb	100
67) Propylbenzene	19.12	120	215326	2.00	ppb	85
68) 2-Chlorotoluene	19.16	126	207342	1.90	ppb	98
69) 4-ethyltoluene	19.30	105	785555m	1.94	ppb	
70) 1,3,5-trimethylbenzene	19.36	105	688299	1.93	ppb	78
71) 1,2,4-trimethylbenzene	19.86	105	659913	1.96	ppb	98
72) 1,3-dichlorobenzene	20.18	146	481569m	1.93	ppb	
73) benzyl chloride	20.26	91	183500	2.14	ppb	100
74) 1,4-dichlorobenzene	20.33	146	487768	1.94	ppb	100
75) 1,2,3-trimethylbenzene	20.38	105	674597	1.98	ppb	97
76) 1,2-dichlorobenzene	20.69	146	468919	1.95	ppb	98
77) 1,2,4-trichlorobenzene	22.90	180	352639	2.30	ppb	99
78) Naphthalene	23.12	128	802579	2.29	ppb	99
79) Hexachloro-1,3-butadiene	23.25	225	412312	2.05	ppb	98

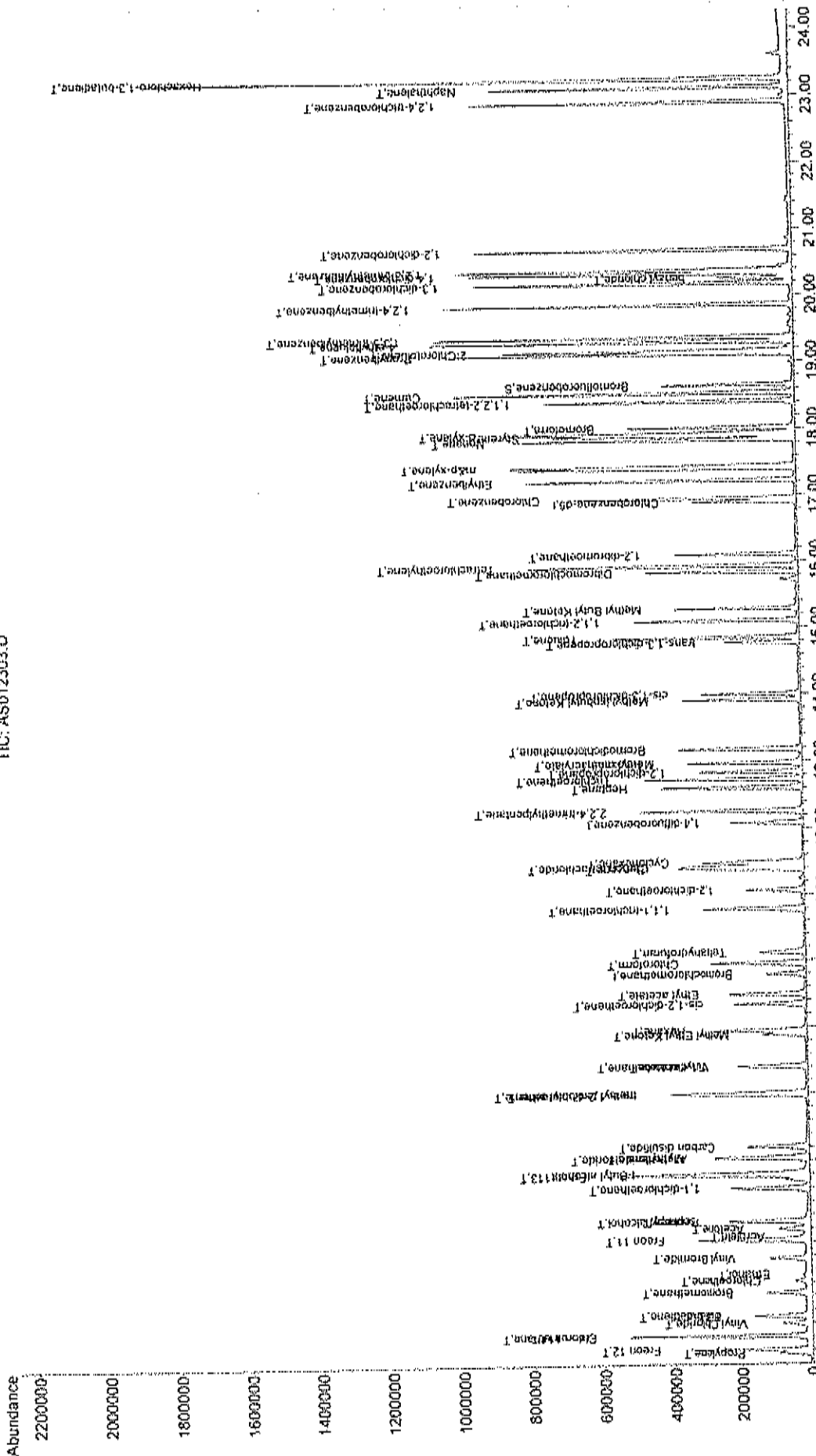
(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012303.D A123\_1UG.M Thu Feb 25 13:04:47 2021 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012303.D  
 Acq On : 23 Jan 2021 9:56 am  
 Sample : A1UG\_2.0  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:51 2021

Vial: 2  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00  
 Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 13:58:36 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 TIC: AS012303.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012304.D  
 Acq On : 23 Jan 2021 10:47 am  
 Sample : A1UG\_1.50  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:47:32 2021

Vial: 3  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.79	128	49095	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	216503	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	204742	1.00	ppb	0.00

System Monitoring Compounds  
 65) Bromofluorobenzene 18.69 95 164414 1.02 ppb 0.00  
 Spiked Amount 1.000 Range 70 - 130 Recovery = 102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	52978	1.45	ppb	98
3) Freon 12	4.20	85	308556	1.48	ppb	98
4) Chloromethane	4.39	50	62908	1.53	ppb	97
5) Freon 114	4.40	85	228466	1.50	ppb	99
6) Vinyl Chloride	4.59	62	61450	1.46	ppb	96
7) Butane	4.69	43	57488	1.40	ppb	100
8) 1,3-butadiene	4.69	39	44903	1.52	ppb	95
9) Bromomethane	5.04	94	82997	1.46	ppb	97
10) Chloroethane	5.21	64	29934	1.45	ppb	98
11) Ethanol	5.31	45	11547m	1.42	ppb	
12) Acrolein	5.89	56	18061	1.77	ppb	# 75
13) Vinyl Bromide	5.55	106	101019	1.77	ppb	99
14) Freon 11	5.83	101	360860	1.73	ppb	98
15) Acetone	5.99	58	49411	1.72	ppb	# 60
16) Pentane	6.11	42	80734	1.80	ppb	94
17) Isopropyl alcohol	6.10	45	92136	1.56	ppb	# 70
18) 1,1-dichloroethene	6.59	96	92308	1.43	ppb	88
19) Freon 113	6.79	101	224297	1.43	ppb	100
20) t-Butyl alcohol	6.81	59	135206m	1.44	ppb	
21) Methylene chloride	7.05	84	88036	1.45	ppb	99
22) Allyl chloride	7.03	41	87248	1.48	ppb	99
23) Carbon disulfide	7.21	76	263985	1.43	ppb	97
24) trans-1,2-dichloroethene	7.98	61	133257	1.50	ppb	93
25) methyl tert-butyl ether	8.00	73	222290	1.49	ppb	83
26) 1,1-dichloroethane	8.41	63	168106	1.48	ppb	97
27) Vinyl acetate	8.39	43	51896	1.43	ppb	98
28) Methyl Ethyl Ketone	8.89	72	42047	1.46	ppb	# 100
29) cis-1,2-dichloroethene	9.35	61	124681	1.50	ppb	97
30) Hexane	8.95	57	131232	1.51	ppb	96
31) Ethyl acetate	9.49	43	244489	1.47	ppb	98
32) Chloroform	9.95	83	230787	1.47	ppb	99
33) Tetrahydrofuran	10.12	42	78801	1.48	ppb	94
34) 1,2-dichloroethane	11.07	62	152852	1.51	ppb	100
36) 1,1,1-trichloroethane	10.78	97	198109	1.52	ppb	98
37) Cyclohexane	11.49	56	123627	1.55	ppb	97
38) Carbon tetrachloride	11.43	117	185496	1.58	ppb	98
39) Benzene	11.39	78	285802	1.52	ppb	100
40) Methyl methacrylate	12.97	41	105006	1.56	ppb	96
41) 1,4-dioxane	12.98	88	69320	1.54	ppb	100
42) 2,2,4-trimethylpentane	12.26	57	396510	1.55	ppb	93
43) Heptane	12.61	43	138785	1.58	ppb	95
44) Trichloroethene	12.74	130	152243	1.53	ppb	99
45) 1,2-dichloropropane	12.84	63	105725	1.52	ppb	99

(#) = qualifier out of range (m) = manual integration

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012304.D Vial: 3  
 Acq On : 23 Jan 2021 10:47 am Operator: RJP  
 Sample : A1UG\_1.50 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:47:32 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.18	83	229148	1.56	ppb	100
47) cis-1,3-dichloropropene	14.00	75	151604	1.58	ppb	97
48) trans-1,3-dichloropropene	14.78	75	107631	1.64	ppb	92
49) 1,1,2-trichloroethane	15.10	97	141611	1.57	ppb	99
51) Toluene	14.85	92	210449	1.52	ppb	98
52) Methyl Isobutyl Ketone	13.91	43	192056	1.52	ppb	94
53) Dibromochloromethane	15.83	129	225875	1.55	ppb	100
54) Methyl Butyl Ketone	15.28	43	190279	1.52	ppb	91
55) 1,2-dibromoethane	16.10	107	216100	1.52	ppb	98
56) Tetrachloroethylene	15.93	164	163818	1.50	ppb	96
57) Chlorobenzene	16.95	112	319134	1.49	ppb	100
58) Ethylbenzene	17.23	91	489119	1.53	ppb	99
59) m&p-xylene	17.44	91	818592	3.06	ppb	97
60) Nonane	17.85	43	222768	1.52	ppb	91
61) Styrene	17.91	104	315796	1.53	ppb	92
62) Bromoform	18.04	173	205982	1.57	ppb	99
63) o-xylene	17.95	91	459496	1.54	ppb	96
64) Cumene	18.57	105	588719	1.56	ppb	98
66) 1,1,2,2-tetrachloroethane	18.44	83	322271	1.51	ppb	99
67) Propylbenzene	19.18	120	162998	1.56	ppb	80
68) 2-Chlorotoluene	19.23	126	161761	1.53	ppb	99
69) 4-ethyltoluene	19.37	105	603068	1.54	ppb	99
70) 1,3,5-trimethylbenzene	19.44	105	528892	1.53	ppb	78
71) 1,2,4-trimethylbenzene	19.95	105	508649	1.56	ppb	97
72) 1,3-dichlorobenzene	20.29	146	367583	1.52	ppb	98
73) benzyl chloride	20.37	91	132139	1.59	ppb	100
74) 1,4-dichlorobenzene	20.44	146	372708	1.53	ppb	99
75) 1,2,3-trimethylbenzene	20.49	105	517632	1.57	ppb	98
76) 1,2-dichlorobenzene	20.80	146	350370	1.50	ppb	98
77) 1,2,4-trichlorobenzene	22.92	180	236866	1.60	ppb	99
78) Naphthalene	23.12	128	547482	1.61	ppb	99
79) Hexachloro-1,3-butadiene	23.24	225	301275	1.55	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012304.D A123\_1UG.M Thu Feb 25 13:04:52 2021 MSDI

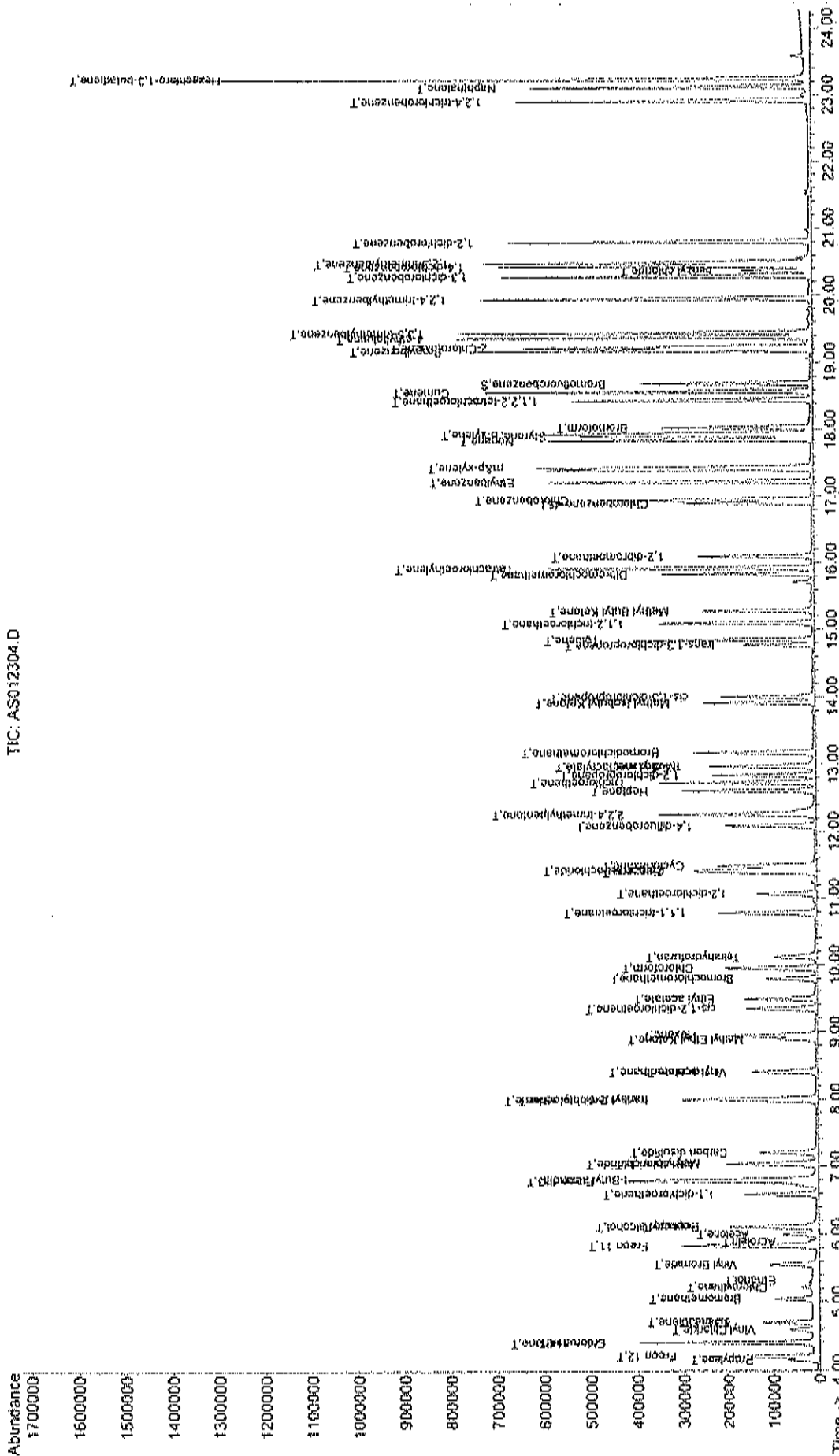
Quantitation Report (QF Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012304.D  
 Acq On : 23 Jan 2021 10:47 am  
 Sample : A1UG\_1.50  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:52 2021

Vial: 3  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 12:58:36 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 TIC: AS012304.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012305.D  
 Acq On : 23 Jan 2021 11:32 am  
 Sample : A1UG\_1.25  
 Misc : A123\_1UG  
 MS Integration Params: RTE\INT.P  
 Quant Time: Jan 23 15:47:04 2021

Vial: 4  
 Operator: RJP  
 Inst : MSD #1  
 Multiplx: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	49357	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.08	114	223084	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	207343	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Bromofluorobenzene	18.69	95	162198	1.00	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	100.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	46996	1.28	ppb	95
3) Freon 12	4.19	85	259309	1.23	ppb	97
4) Chloromethane	4.39	50	51136	1.24	ppb	98
5) Freon 114	4.40	85	190080	1.24	ppb	100
6) Vinyl Chloride	4.59	62	53888	1.27	ppb	95
7) Butane	4.69	43	51584	1.25	ppb	96
8) 1,3-butadiene	4.69	39	38561	1.29	ppb	95
9) Bromomethane	5.04	94	70426	1.23	ppb	98
10) Chloroethane	5.21	64	24840	1.20	ppb	92
11) Ethanol	5.30	45	10033m	1.23	ppb	
12) Acrolein	5.87	56	11365m	1.11	ppb	
13) Vinyl Bromide	5.54	106	70344	1.22	ppb	97
14) Freon 11	5.82	101	243054	1.16	ppb	98
15) Acetone	5.98	58	32359m	1.12	ppb	
16) Pentane	6.10	42	52211	1.16	ppb	97
17) Isopropyl alcohol	6.09	45	70902	1.20	ppb	88
18) 1,1-dichloroethene	6.58	96	81444	1.25	ppb	88
19) Freon 113	6.78	101	192761	1.22	ppb	99
20) t-Butyl alcohol	6.82	59	118063	1.25	ppb	# 85
21) Methylene chloride	7.04	84	74554	1.23	ppb	98
22) Allyl chloride	7.02	41	73086	1.23	ppb	97
23) Carbon disulfide	7.20	76	227267	1.22	ppb	98
24) trans-1,2-dichloroethene	7.98	61	113624	1.27	ppb	94
25) methyl tert-butyl ether	8.00	73	193172	1.29	ppb	86
26) 1,1-dichloroethane	8.41	63	143047	1.25	ppb	98
27) Vinyl acetate	8.39	43	44245	1.22	ppb	99
28) Methyl Ethyl Ketone	8.89	72	37057	1.28	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	108554	1.30	ppb	95
30) Hexane	8.94	57	111944	1.28	ppb	92
31) Ethyl acetate	9.49	43	208435	1.24	ppb	98
32) Chloroform	9.94	83	197948	1.25	ppb	100
33) Tetrahydrofuran	10.11	42	67582	1.26	ppb	93
34) 1,2-dichloroethane	11.07	62	129394	1.27	ppb	100
36) 1,1,1-trichloroethane	10.78	97	171516	1.28	ppb	99
37) Cyclohexane	11.49	56	102205	1.24	ppb	95
38) Carbon tetrachloride	11.43	117	150391	1.25	ppb	98
39) Benzene	11.39	78	242071	1.25	ppb	97
40) Methyl methacrylate	12.96	41	88144	1.27	ppb	94
41) 1,4-dioxane	12.98	88	58981	1.27	ppb	98
42) 2,2,4-trimethylpentane	12.26	57	329847	1.25	ppb	94
43) Heptane	12.61	43	112923	1.25	ppb	97
44) Trichloroethene	12.73	130	128600	1.25	ppb	100
45) 1,2-dichloropropane	12.84	63	89127	1.25	ppb	98

(#) = qualifier out of range (m) = manual integration



## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012305.D  
 Acq On : 23 Jan 2021 11:32 am  
 Sample : A1UG\_1.25  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:47:04 2021

Vial: 4  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.18	83	187813	1.24	ppb	100
47) cis-1,3-dichloropropene	14.00	75	124544	1.26	ppb	98
48) trans-1,3-dichloropropene	14.77	75	90206	1.33	ppb	91
49) 1,1,2-trichloroethane	15.10	97	115691	1.25	ppb	100
51) Toluene	14.85	92	175233	1.25	ppb	99
52) Methyl Isobutyl Ketone	13.91	43	160820	1.25	ppb	95
53) Dibromochloromethane	15.83	129	184300	1.25	ppb	99
54) Methyl Butyl Ketone	15.28	43	161656	1.27	ppb	90
55) 1,2-dibromoethane	16.10	107	180950	1.26	ppb	99
56) Tetrachloroethylene	15.93	164	135400	1.22	ppb	99
57) Chlorobenzene	16.95	112	270759	1.25	ppb	100
58) Ethylbenzene	17.22	91	407191	1.26	ppb	99
59) m&p-xylene	17.44	91	675348	2.50	ppb	97
60) Nonane	17.85	43	182474	1.23	ppb	90
61) Styrene	17.91	104	257202	1.23	ppb	93
62) Bromoform	18.04	173	169075	1.27	ppb	99
63) o-xylene	17.95	91	374418	1.24	ppb	96
64) Cumene	18.57	105	484022	1.27	ppb	97
66) 1,1,2,2-tetrachloroethane	18.44	83	269573	1.25	ppb	99
67) Propylbenzene	19.18	120	135612	1.28	ppb	84
68) 2-Chlorotoluene	19.23	126	132398	1.23	ppb	99
69) 4-ethyltoluene	19.37	105	490953	1.24	ppb	98
70) 1,3,5-trimethylbenzene	19.44	105	424829	1.22	ppb	75
71) 1,2,4-trimethylbenzene	19.95	105	412981	1.25	ppb	98
72) 1,3-dichlorobenzene	20.29	146	307673	1.26	ppb	98
73) benzyl chloride	20.37	91	114169	1.36	ppb	99
74) 1,4-dichlorobenzene	20.44	146	308707	1.25	ppb	99
75) 1,2,3-trimethylbenzene	20.49	105	419714	1.25	ppb	98
76) 1,2-dichlorobenzene	20.80	146	288427	1.22	ppb	97
77) 1,2,4-trichlorobenzene	22.92	180	189677	1.26	ppb	99
78) Naphthalene	23.12	128	438360	1.27	ppb	99
79) Hexachloro-1,3-butadiene	23.25	225	241095	1.22	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012305.D A123\_1UG.M Thu Feb 25 13:04:56 2021 MSD1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012306.D Vial: 5  
 Acq On : 23 Jan 2021 12:16 pm Operator: RJP  
 Sample : A1UG\_1.0 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:46:35 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : LUG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.79	128	49173	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.08	114	222343	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	204649	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.69	95	160749	1.00	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	36720	1.00	ppb	96
3) Freon 12	4.20	85	209270	1.00	ppb	98
4) Chloromethane	4.39	50	41197	1.00	ppb	96
5) Freon 114	4.40	85	152150	1.00	ppb	99
6) Vinyl Chloride	4.58	62	42241	1.00	ppb	97
7) Butane	4.70	43	41209	1.00	ppb	97
8) 1,3-butadiene	4.70	39	29678	1.00	ppb	100
9) Bromomethane	5.04	94	57100	1.00	ppb	99
10) Chloroethane	5.21	64	20656	1.00	ppb	97
11) Ethanol	5.29	45	7294m	0.90	ppb	
12) Acrolein	5.88	56	10237	1.00	ppb	# 76
13) Vinyl Bromide	5.54	106	57319	1.00	ppb	98
14) Freon 11	5.82	101	208566	1.00	ppb	97
15) Acetone	5.98	58	28738	1.00	ppb	# 72
16) Pentane	6.09	42	44827	1.00	ppb	99
17) Isopropyl alcohol	6.10	45	59058	1.00	ppb	# 82
18) 1,1-dichloroethene	6.59	96	64825	1.00	ppb	88
19) Freon 113	6.78	101	157593	1.00	ppb	99
20) t-Butyl alcohol	6.81	59	94307	1.00	ppb	# 86
21) Methylene chloride	7.04	84	60620	1.00	ppb	99
22) Allyl chloride	7.02	41	59067	1.00	ppb	99
23) Carbon disulfide	7.20	76	185449	1.00	ppb	97
24) trans-1,2-dichloroethene	7.97	61	89110	1.00	ppb	94
25) methyl tert-butyl ether	8.00	73	149603	1.00	ppb	85
26) 1,1-dichloroethane	8.40	63	113715	1.00	ppb	98
27) Vinyl acetate	8.39	43	36251	1.00	ppb	97
28) Methyl Ethyl Ketone	8.89	72	28764	1.00	ppb	# 100
29) cis-1,2-dichloroethene	9.33	61	83306	1.00	ppb	96
30) Hexane	8.95	57	87008	1.00	ppb	90
31) Ethyl acetate	9.49	43	166978	1.00	ppb	98
32) Chloroform	9.95	83	157604	1.00	ppb	99
33) Tetrahydrofuran	10.11	42	53248	1.00	ppb	92
34) 1,2-dichloroethane	11.06	62	101641	1.00	ppb	99
36) 1,1,1-trichloroethane	10.78	97	133950	1.00	ppb	99
37) Cyclohexane	11.49	56	82002	1.00	ppb	97
38) Carbon tetrachloride	11.43	117	120233	1.00	ppb	99
39) Benzene	11.39	78	193610	1.00	ppb	97
40) Methyl methacrylate	12.96	41	69026	1.00	ppb	94
41) 1,4-dioxane	12.98	88	46342	1.00	ppb	99
42) 2,2,4-trimethylpentane	12.26	57	262364	1.00	ppb	93
43) Heptane	12.61	43	90084	1.00	ppb	97
44) Trichloroethene	12.73	130	102311	1.00	ppb	99
45) 1,2-dichloropropane	12.84	63	71254	1.00	ppb	99

(#) = qualifier out of range (m) = manual integration

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012306.D  
 Acq On : 23 Jan 2021 12:16 pm  
 Sample : A1UG\_1.0  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:46:35 2021

Vial: 5  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.17	83	150790	1.00	ppb	100
47) cis-1,3-dichloropropene	14.00	75	98426	1.00	ppb	97
48) trans-1,3-dichloropropene	14.77	75	67366	1.00	ppb	93
49) 1,1,2-trichloroethane	15.10	97	92442	1.00	ppb	99
51) Toluene	14.85	92	138280	1.00	ppb	99
52) Methyl Isobutyl Ketone	13.91	43	126666	1.00	ppb	93
53) Dibromochloromethane	15.83	129	145438	1.00	ppb	98
54) Methyl Butyl Ketone	15.28	43	125311	1.00	ppb	89
55) 1,2-dibromoethane	16.10	107	141886	1.00	ppb	100
56) Tetrachloroethylene	15.92	164	109324	1.00	ppb	95
57) Chlorobenzene	16.95	112	214445	1.00	ppb	100
58) Ethylbenzene	17.23	91	319564	1.00	ppb	98
59) m&p-xylene	17.44	91	534007	2.00	ppb	97
60) Nonane	17.85	43	146480	1.00	ppb	89
61) Styrene	17.91	104	205967	1.00	ppb	92
62) Bromoform	18.04	173	131389	1.00	ppb	99
63) o-xylene	17.94	91	298443	1.00	ppb	97
64) Cumene	18.57	105	376183	1.00	ppb	98
66) 1,1,2,2-tetrachloroethane	18.44	83	213409	1.00	ppb	99
67) Propylbenzene	19.18	120	104415	1.00	ppb	76
68) 2-Chlorotoluene	19.22	126	105832	1.00	ppb	98
69) 4-ethyltoluene	19.37	105	391682	1.00	ppb	99
70) 1,3,5-trimethylbenzene	19.44	105	344834	1.00	ppb	77
71) 1,2,4-trimethylbenzene	19.95	105	325527	1.00	ppb	97
72) 1,3-dichlorobenzene	20.28	146	241637	1.00	ppb	98
73) benzyl chloride	20.37	91	83157	1.00	ppb	98
74) 1,4-dichlorobenzene	20.44	146	243008	1.00	ppb	100
75) 1,2,3-trimethylbenzene	20.49	105	330479	1.00	ppb	98
76) 1,2-dichlorobenzene	20.80	146	233233	1.00	ppb	99
77) 1,2,4-trichlorobenzene	22.91	180	148384	1.00	ppb	99
78) Naphthalene	23.12	128	339696	1.00	ppb	99
79) Hexachloro-1,3-butadiene	23.25	225	194286	1.00	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012306.D A123\_1UG.M Thu Feb 25 13:05:00 2021 MSD1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012307.D Vial: 6  
 Acq On : 23 Jan 2021 1:00 pm Operator: RJP  
 Sample : A1UG\_0.75 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:48:22 2021

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	48950	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.08	114	222999	1.00	ppb	-0.01
50) Chlorobenzene-d5	15.90	117	207566	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.69	95	158111	0.97	ppb	-0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	97.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	28200	0.77	ppb	93
3) Freon 12	4.19	85	156683	0.75	ppb	98
4) Chloromethane	4.39	50	31464	0.77	ppb	100
5) Freon 114	4.40	85	115839	0.76	ppb	100
6) Vinyl Chloride	4.59	62	31952	0.76	ppb	99
7) Butane	4.69	43	32770	0.80	ppb	98
8) 1,3-butadiene	4.69	39	24907	0.84	ppb	90
9) Bromomethane	5.04	94	43344	0.76	ppb	97
10) Chloroethane	5.22	64	15836	0.77	ppb	96
11) Ethanol	5.30	45	5680	0.70	ppb	74
12) Acrolein	5.88	56	7674	0.75	ppb	84
13) Vinyl Bromide	5.55	106	42699	0.75	ppb	97
14) Freon 11	5.82	101	157493	0.76	ppb	99
15) Acetone	5.99	58	21991	0.77	ppb	# 70
16) Pentane	6.10	42	33469	0.75	ppb	98
17) Isopropyl alcohol	6.10	45	45654	0.78	ppb	84
18) 1,1-dichloroethene	6.58	96	49131	0.76	ppb	# 87
19) Freon 113	6.78	101	118990	0.76	ppb	99
20) t-Butyl alcohol	6.81	59	71792	0.76	ppb	# 87
21) Methylene chloride	7.03	84	46383	0.77	ppb	99
22) Allyl chloride	7.03	41	43484	0.74	ppb	96
23) Carbon disulfide	7.19	76	142767	0.77	ppb	98
24) trans-1,2-dichloroethene	7.98	61	67553	0.76	ppb	94
25) methyl tert-butyl ether	8.00	73	112784	0.76	ppb	84
26) 1,1-dichloroethane	8.41	63	86630	0.77	ppb	99
27) Vinyl acetate	8.39	43	26289	0.73	ppb	99
28) Methyl Ethyl Ketone	8.89	72	22724	0.79	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	62794	0.76	ppb	98
30) Hexane	8.95	57	65608	0.76	ppb	92
31) Ethyl acetate	9.49	43	124089	0.75	ppb	99
32) Chloroform	9.95	83	119691	0.76	ppb	98
33) Tetrahydrofuran	10.11	42	39682	0.75	ppb	95
34) 1,2-dichloroethane	11.06	62	78185	0.77	ppb	100
36) 1,1,1-trichloroethane	10.78	97	100481	0.75	ppb	99
37) Cyclohexane	11.48	56	62505	0.76	ppb	96
38) Carbon tetrachloride	11.42	117	88703	0.74	ppb	99
39) Benzene	11.39	78	149513	0.77	ppb	99
40) Methyl methacrylate	12.96	41	50327	0.73	ppb	95
41) 1,4-dioxane	12.98	88	34995	0.75	ppb	100
42) 2,2,4-trimethylpentane	12.26	57	195202	0.74	ppb	92
43) Heptane	12.60	43	66378	0.73	ppb	99
44) Trichloroethene	12.73	130	76752	0.75	ppb	99
45) 1,2-dichloropropane	12.83	63	53128	0.74	ppb	99

(#) = qualifier out of range (m) = manual integration

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012307.D Vial: 6  
 Acq On : 23 Jan 2021 1:00 pm Operator: RJP  
 Sample : ALUG\_0.75 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:48:22 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : LUG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.18	83	114449	0.76	ppb	100
47) cis-1,3-dichloropropene	14.00	75	74865	0.76	ppb	95
48) trans-1,3-dichloropropene	14.77	75	52006	0.77	ppb	92
49) 1,1,2-trichloroethane	15.10	97	70539	0.76	ppb	100
51) Toluene	14.85	92	104209	0.74	ppb	99
52) Methyl Isobutyl Ketone	13.91	43	96309	0.75	ppb	94
53) Dibromochloromethane	15.83	129	110305	0.75	ppb	100
54) Methyl Butyl Ketone	15.28	43	93635	0.74	ppb	88
55) 1,2-dibromoethane	16.10	107	105970	0.74	ppb	99
56) Tetrachloroethylene	15.92	164	81739	0.74	ppb	99
57) Chlorobenzene	16.95	112	165993	0.76	ppb	99
58) Ethylbenzene	17.22	91	239294	0.74	ppb	98
59) m&p-xylene	17.44	91	394601	1.46	ppb	97
60) Nonane	17.85	43	104438	0.70	ppb	91
61) Styrene	17.91	104	151191	0.72	ppb	92
62) Bromoform	18.04	173	99499	0.75	ppb	100
63) o-xylene	17.95	91	239141	0.79	ppb	92
64) Cumene	18.57	105	279202	0.73	ppb	98
66) 1,1,2,2-tetrachloroethane	18.44	83	162611	0.75	ppb	98
67) Propylbenzene	19.18	120	77895	0.74	ppb	81
68) 2-Chlorotoluene	19.23	126	77612	0.72	ppb	97
69) 4-ethyltoluene	19.37	105	280228	0.71	ppb	98
70) 1,3,5-trimethylbenzene	19.44	105	245251	0.70	ppb	77
71) 1,2,4-trimethylbenzene	19.95	105	239206	0.72	ppb	97
72) 1,3-dichlorobenzene	20.28	146	179228	0.73	ppb	98
73) benzyl chloride	20.36	91	64242	0.76	ppb	99
74) 1,4-dichlorobenzene	20.43	146	173638	0.70	ppb	99
75) 1,2,3-trimethylbenzene	20.49	105	233664	0.70	ppb	97
76) 1,2-dichlorobenzene	20.80	146	165606	0.70	ppb	99
77) 1,2,4-trichlorobenzene	22.91	180	102835	0.68	ppb	99
78) Naphthalene	23.12	128	234841	0.68	ppb	99
79) Hexachloro-1,3-butadiene	23.24	225	142386	0.72	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012307.D A123\_1UG.M Thu Feb 25 13:05:04 2021 MSD1

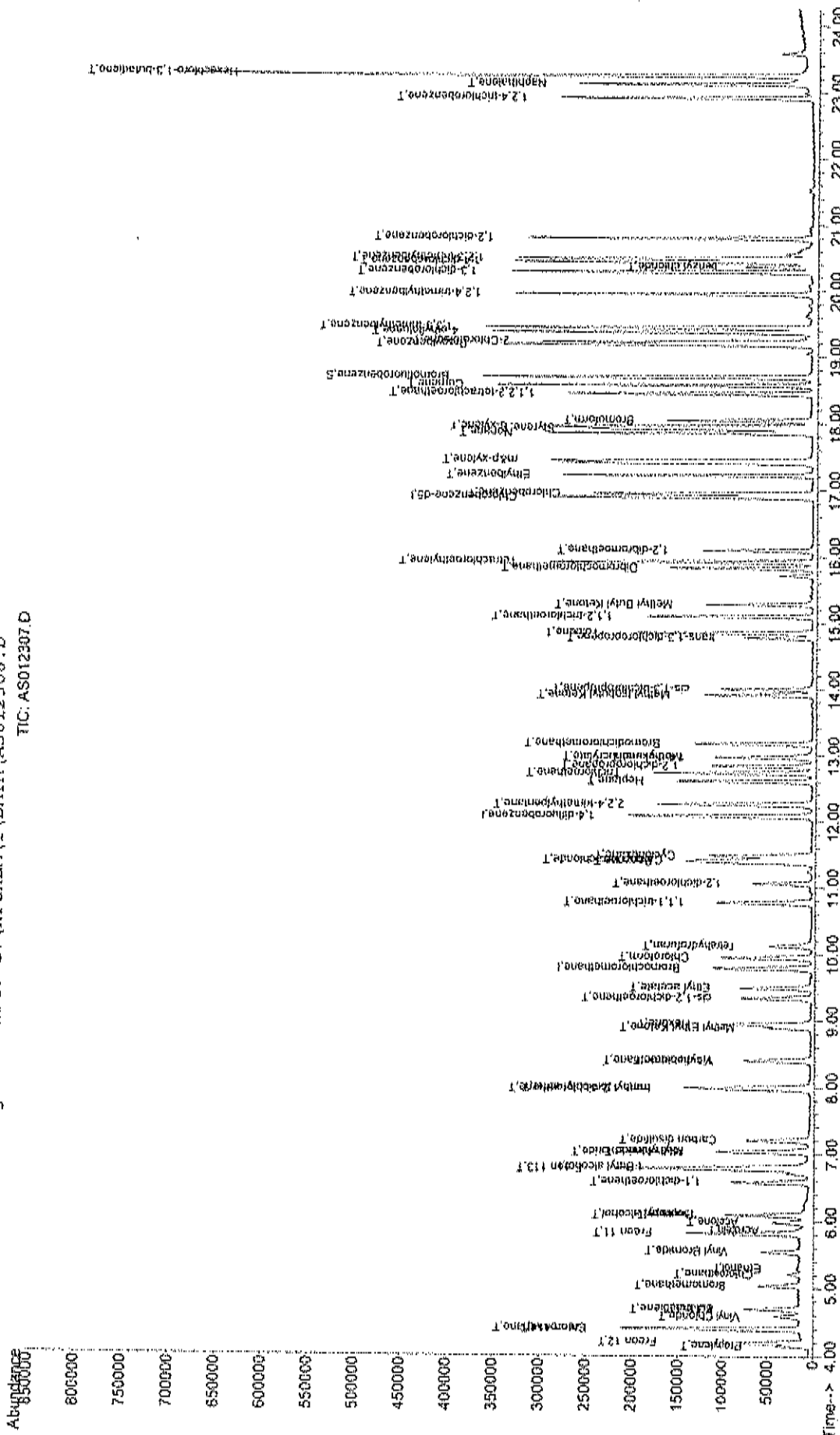
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012307.D  
Acq On : 23 Jan 2021 1:00 pm  
Sample : A1UG 0.75  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Jan 23 15:48 2021

Vial: 6  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_1UG.REB

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 12:58:36 2021  
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D



Abundance  
850000  
800000  
750000  
700000  
650000  
600000  
550000  
500000  
450000  
400000  
350000  
300000  
250000  
200000  
150000  
100000  
50000  
0

Time--> 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012308.D  
 Acq On : 23 Jan 2021 1:42 pm  
 Sample : A1UG\_0.50  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:48:48 2021

Vial: 7  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.79	128	48988	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.09	114	215297	1.00	ppb	0.00
50) Chlorobenzene-d5	16.90	117	204857	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
65) Bromofluorobenzene	18.69	95	154008	0.96	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	18478	0.51	ppb	86
3) Freon 12	4.19	85	105957	0.51	ppb	98
4) Chloromethane	4.39	50	21787	0.53	ppb	99
5) Freon 114	4.39	85	77301	0.51	ppb	99
6) Vinyl Chloride	4.59	62	21666	0.51	ppb	97
7) Butane	4.69	43	21332	0.52	ppb	99
8) 1,3-butadiene	4.70	39	17752	0.60	ppb	82
9) Bromomethane	5.04	94	27996	0.49	ppb	94
10) Chloroethane	5.21	64	10419	0.51	ppb	# 66
11) Ethanol	5.30	45	3812	0.47	ppb	# 85
12) Acrolein	5.88	56	4833	0.47	ppb	93
13) Vinyl Bromide	5.55	106	28326	0.50	ppb	97
14) Freon 11	5.82	101	98812	0.48	ppb	97
15) Acetone	5.99	58	14832	0.52	ppb	# 73
16) Pentane	6.10	42	22477	0.50	ppb	98
17) Isopropyl alcohol	6.10	45	30844	0.52	ppb	86
18) 1,1-dichloroethene	6.59	96	32229	0.50	ppb	# 88
19) Freon 113	6.78	101	77533	0.49	ppb	98
20) t-Butyl alcohol	6.81	59	47391	0.50	ppb	# 85
21) Methylene chloride	7.04	84	31455	0.52	ppb	98
22) Allyl chloride	7.02	41	29226	0.50	ppb	97
23) Carbon disulfide	7.20	76	96921	0.52	ppb	98
24) trans-1,2-dichloroethene	7.98	61	45105	0.51	ppb	95
25) methyl tert-butyl ether	8.00	73	74037	0.50	ppb	82
26) 1,1-dichloroethane	8.40	63	57163	0.50	ppb	98
27) Vinyl acetate	8.39	43	18014	0.50	ppb	99
28) Methyl Ethyl Ketone	8.89	72	14528	0.51	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	42813	0.52	ppb	95
30) Hexane	8.94	57	42870	0.49	ppb	91
31) Ethyl acetate	9.49	43	80332	0.48	ppb	98
32) Chloroform	9.95	83	79492	0.51	ppb	99
33) Tetrahydrofuran	10.13	42	25401	0.48	ppb	94
34) 1,2-dichloroethane	11.06	62	52343	0.52	ppb	99
36) 1,1,1-trichloroethane	10.77	97	65870	0.51	ppb	99
37) Cyclohexane	11.48	56	38817	0.49	ppb	95
38) Carbon tetrachloride	11.42	117	57329	0.49	ppb	98
39) Benzene	11.39	78	96907	0.52	ppb	96
40) Methyl methacrylate	12.96	41	32239	0.48	ppb	95
41) 1,4-dioxane	12.98	88	22313	0.50	ppb	98
42) 2,2,4-trimethylpentane	12.25	57	128929	0.51	ppb	93
43) Heptane	12.61	43	43604	0.50	ppb	96
44) Trichloroethene	12.73	130	51724	0.52	ppb	99
45) 1,2-dichloropropane	12.84	63	35052	0.51	ppb	98

(#) = qualifier out of range (m) = manual integration  
 AS012308.D A123\_1UG.M Thu Feb 25 13:05:07 2021

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012308.D  
 Acq On : 23 Jan 2021 1:42 pm  
 Sample : A1UG\_0.50  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.F  
 Quant Time: Jan 23 15:48:48 2021

Vial: 7  
 Operator: RJF  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.18	83	75022	0.51	ppb	99
47) cis-1,3-dichloropropene	14.00	75	48020	0.50	ppb	95
48) trans-1,3-dichloropropene	14.77	75	31435	0.48	ppb	94
49) 1,1,2-trichloroethane	15.10	97	47783	0.53	ppb	99
51) Toluene	14.85	92	68741	0.50	ppb	99
52) Methyl Isobutyl Ketone	13.91	43	61287	0.48	ppb	93
53) Dibromochloromethane	15.83	129	72168	0.50	ppb	99
54) Methyl Butyl Ketone	15.28	43	59263	0.47	ppb	89
55) 1,2-dibromoethane	16.10	107	69593	0.49	ppb	100
56) Tetrachloroethylene	15.92	164	54046	0.49	ppb	97
57) Chlorobenzene	16.95	112	105983	0.49	ppb	99
58) Ethylbenzene	17.22	91	154943	0.48	ppb	98
59) m&p-xylene	17.44	91	251760	0.94	ppb	97
60) Nonane	17.85	43	67000	0.46	ppb	89
61) Styrene	17.91	104	97001	0.47	ppb	92
62) Bromoform	18.04	173	63158	0.48	ppb	100
63) o-xylene	17.94	91	141695	0.47	ppb	97
64) Cumene	18.57	105	176909	0.47	ppb	97
66) 1,1,2,2-tetrachloroethane	18.44	83	108877	0.51	ppb	97
67) Propylbenzene	19.18	120	49893	0.48	ppb	81
68) 2-Chlorotoluene	19.22	126	50008	0.47	ppb	96
69) 4-ethyltoluene	19.37	105	178356	0.45	ppb	98
70) 1,3,5-trimethylbenzene	19.44	105	160228	0.46	ppb	78
71) 1,2,4-trimethylbenzene	19.95	105	148062	0.45	ppb	100
72) 1,3-dichlorobenzene	20.28	146	117544	0.49	ppb	98
73) benzyl chloride	20.36	91	41581	0.50	ppb	99
74) 1,4-dichlorobenzene	20.44	146	112676	0.46	ppb	98
75) 1,2,3-trimethylbenzene	20.49	105	150833	0.46	ppb	98
76) 1,2-dichlorobenzene	20.80	146	108150	0.46	ppb	99
77) 1,2,4-trichlorobenzene	22.91	180	64325	0.43	ppb	99
78) Naphthalene	23.12	128	142025	0.42	ppb	99
79) Hexachloro-1,3-butadiene	23.24	225	95811	0.49	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012308.D A123\_1UG.M Thu Feb 25 13:05:08 2021 MSD1

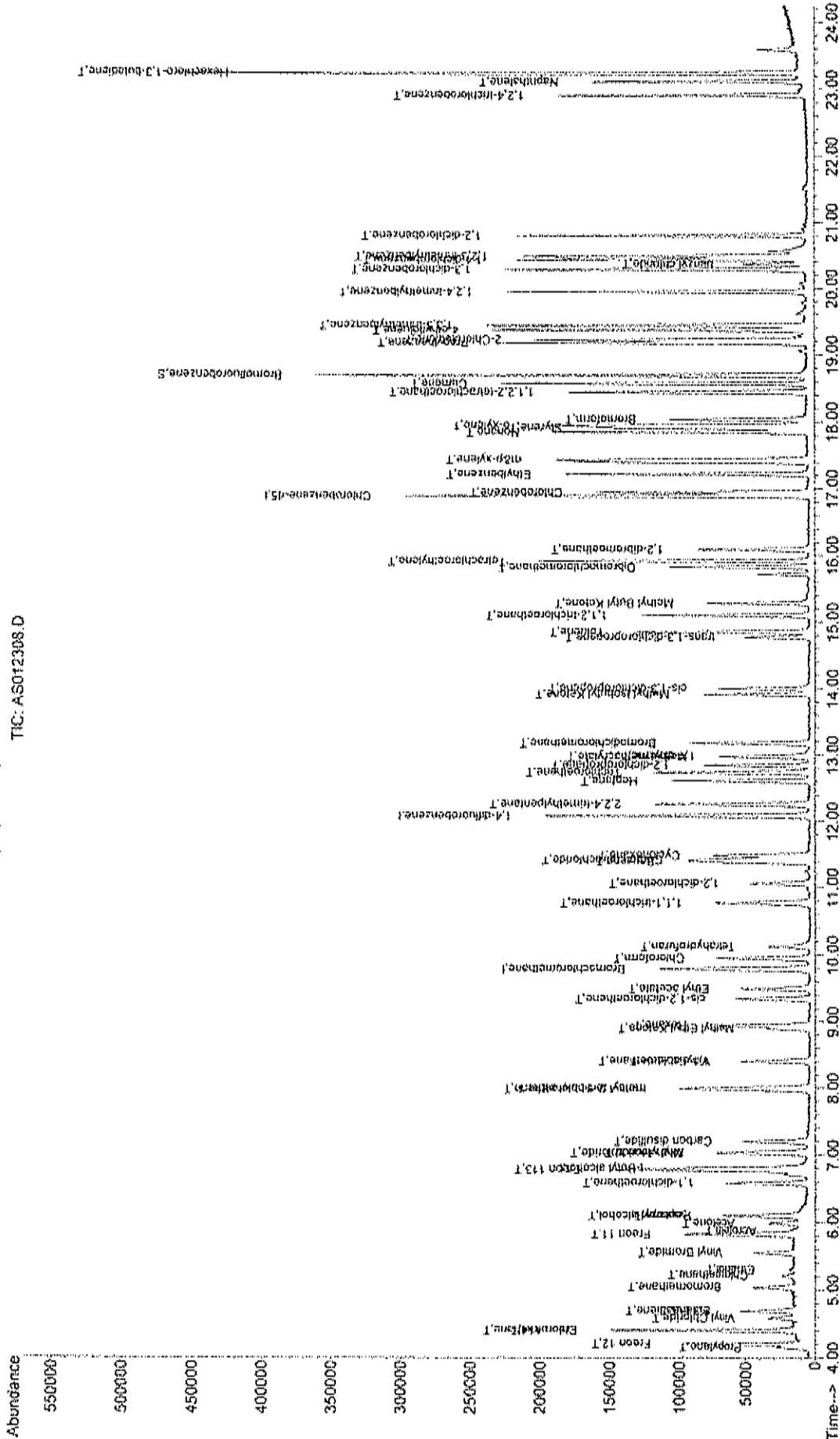
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012308.D  
Acq On : 23 Jan 2021 1:42 pm  
Sample : A1UG 0.50  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Jan 23 15:48 2021

Vial: 7  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 12:58:36 2021  
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D



Abundance

TIC: AS012308.D

Time--> 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012309.D Vial: 8  
 Acq On : 23 Jan 2021 2:24 pm Operator: RJP  
 Sample : A1UG\_0.30 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:49:10 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.78	128	49583	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.08	114	214254	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	201286	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.69	95	148823	0.94	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	94.00%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	12197	0.33	ppb	96
3) Freon 12	4.19	85	65889	0.31	ppb	98
4) Chloromethane	4.39	50	14309	0.34	ppb	100
5) Freon 114	4.40	85	48643	0.32	ppb	100
6) Vinyl Chloride	4.59	62	13719	0.32	ppb	95
7) Butane	4.70	43	14872	0.36	ppb	# 90
8) 1,3-butadiene	4.69	39	11692	0.39	ppb	86
9) Bromomethane	5.04	94	18838	0.33	ppb	100
10) Chloroethane	5.20	64	7026	0.34	ppb	95
11) Ethanol	5.30	45	3276m	0.40	ppb	
12) Acrolein	5.88	56	3102	0.30	ppb	# 65
13) Vinyl Bromide	5.54	106	18582	0.32	ppb	95
14) Freon 11	5.82	101	62306	0.30	ppb	97
15) Acetone	6.00	58	8645	0.30	ppb	# 80
16) Pentane	6.09	42	14459	0.32	ppb	100
17) Isopropyl alcohol	6.10	45	18942	0.32	ppb	# 81
18) 1,1-dichloroethene	6.58	96	20900	0.32	ppb	91
19) Freon 113	6.78	101	50737	0.32	ppb	98
20) t-Butyl alcohol	6.82	59	29162	0.31	ppb	# 84
21) Methylene chloride	7.05	84	20171	0.33	ppb	98
22) Allyl chloride	7.03	41	18788	0.32	ppb	99
23) Carbon disulfide	7.20	76	65062	0.35	ppb	98
24) trans-1,2-dichloroethene	7.98	61	28356	0.32	ppb	96
25) methyl tert-butyl ether	8.00	73	47048	0.31	ppb	83
26) 1,1-dichloroethane	8.41	63	35853	0.31	ppb	96
27) Vinyl acetate	8.39	43	11455	0.31	ppb	91
28) Methyl Ethyl Ketone	8.90	72	9110	0.31	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	26086	0.31	ppb	98
30) Hexane	8.95	57	26665	0.30	ppb	90
31) Ethyl acetate	9.49	43	48659	0.29	ppb	97
32) Chloroform	9.94	83	51154	0.32	ppb	99
33) Tetrahydrofuran	10.13	42	16293	0.30	ppb	92
34) 1,2-dichloroethane	11.07	62	32108	0.31	ppb	95
36) 1,1,1-trichloroethane	10.77	97	41658	0.32	ppb	100
37) Cyclohexane	11.49	56	23652	0.30	ppb	93
38) Carbon tetrachloride	11.42	117	36088	0.31	ppb	100
39) Benzene	11.39	78	61107	0.33	ppb	99
40) Methyl methacrylate	12.97	41	19513	0.29	ppb	94
41) 1,4-dioxane	12.99	88	14359	0.32	ppb	98
42) 2,2,4-trimethylpentane	12.26	57	78762	0.31	ppb	92
43) Heptane	12.60	43	26552	0.31	ppb	96
44) Trichloroethene	12.73	130	32320	0.33	ppb	100
45) 1,2-dichloropropane	12.84	63	22086	0.32	ppb	98

(#) = qualifier out of range (m) = manual integration

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012309.D Vial: 8  
 Acq On : 23 Jan 2021 2:24 pm Operator: RJP  
 Sample : A1UG\_0.30 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:49:10 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.18	83	46569	0.32	ppb	100
47) cis-1,3-dichloropropene	14.00	75	28995	0.31	ppb	97
48) trans-1,3-dichloropropene	14.78	75	20441	0.31	ppb	93
49) 1,1,2-trichloroethane	15.10	97	29394	0.33	ppb	99
51) Toluene	14.85	92	40796	0.30	ppb	96
52) Methyl Isobutyl Ketone	13.91	43	38765	0.31	ppb	94
53) Dibromochloromethane	15.83	129	43872	0.31	ppb	98
54) Methyl Butyl Ketone	15.28	43	36245	0.29	ppb	87
55) 1,2-dibromoethane	16.09	107	43218	0.31	ppb	99
56) Tetrachloroethylene	15.92	164	34178	0.32	ppb	97
57) Chlorobenzene	16.95	112	66756	0.32	ppb	100
58) Ethylbenzene	17.23	91	94151	0.30	ppb	97
59) m&p-xylene	17.44	91	149023	0.57	ppb	98
60) Nonane	17.85	43	39287	0.27	ppb	89
61) Styrene	17.91	104	57500	0.28	ppb	91
62) Bromoform	18.04	173	38376	0.30	ppb	100
63) o-xylene	17.95	91	86604	0.30	ppb	97
64) Cumene	18.57	105	104913	0.28	ppb	97
66) 1,1,2,2-tetrachloroethane	18.44	83	67841	0.32	ppb	97
67) Propylbenzene	19.18	120	29219	0.28	ppb	76
68) 2-Chlorotoluene	19.23	126	30327	0.29	ppb	# 94
69) 4-ethyltoluene	19.37	105	105971	0.28	ppb	97
70) 1,3,5-trimethylbenzene	19.44	105	93263	0.27	ppb	76
71) 1,2,4-trimethylbenzene	19.95	105	87516	0.27	ppb	99
72) 1,3-dichlorobenzene	20.28	146	69044	0.29	ppb	96
73) benzyl chloride	20.36	91	24344	0.30	ppb	100
74) 1,4-dichlorobenzene	20.44	146	69390	0.29	ppb	99
75) 1,2,3-trimethylbenzene	20.49	105	90966	0.28	ppb	94
76) 1,2-dichlorobenzene	20.80	146	65113	0.28	ppb	98
77) 1,2,4-trichlorobenzene	22.91	180	37732	0.26	ppb	98
78) Naphthalene	23.12	128	80536	0.24	ppb	99
79) Hexachloro-1,3-butadiene	23.24	225	59159	0.31	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012309.D A123\_1UG.M Thu Feb 25 13:05:12 2021 MSD1

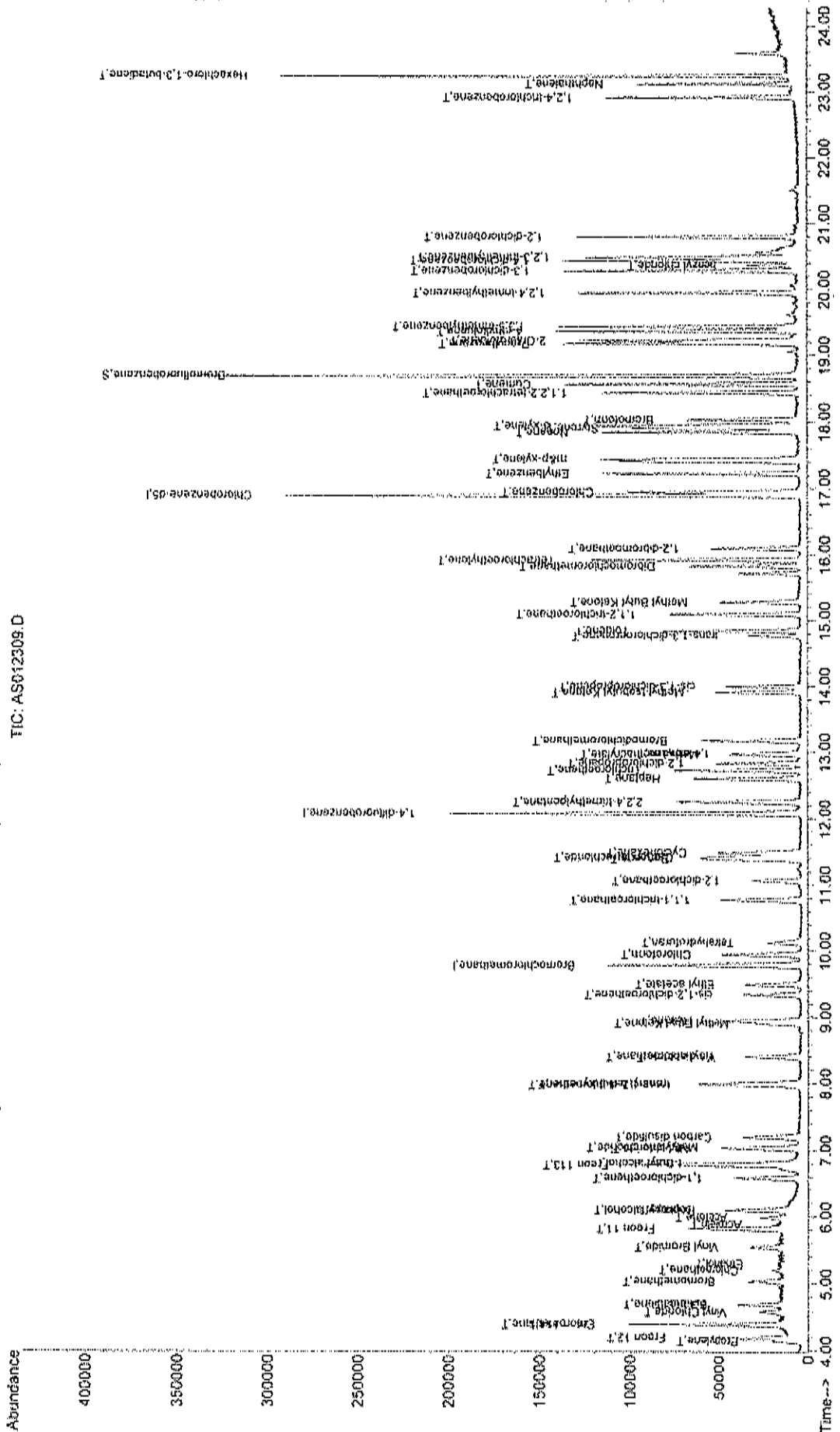
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012309.D  
 Acq On : 23 Jan 2021 2:24 pm  
 Sample : A1UG 0.30  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:56 2021

Vial: 8  
 Operator: RJP  
 Inst : MSD #1  
 Multiplx: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : 10-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 12:58:36 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 TIC: AS012309.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012310.D Vial: 9  
 Acq On : 23 Jan 2021 3:07 pm Operator: RJP  
 Sample : A1UG\_0.15 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:49:33 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	48313	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.08	114	210662	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	194538	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Bromofluorobenzene	18.69	95	140793	0.92	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	6308	0.17	ppb	86
3) Freon 12	4.20	85	35263	0.17	ppb	99
4) Chloromethane	4.40	50	7692	0.19	ppb	86
5) Freon 114	4.40	85	25669	0.17	ppb	98
6) Vinyl Chloride	4.59	62	7749	0.19	ppb	95
7) Butane	4.69	43	7166m	0.18	ppb	
8) 1,3-butadiene	4.69	39	5094m	0.17	ppb	
9) Bromomethane	5.04	94	10743	0.19	ppb	97
10) Chloroethane	5.21	64	3671	0.18	ppb	# 77
11) Ethanol	5.31	45	1251	0.16	ppb	# 1
12) Acrolein	5.89	56	2134m	0.21	ppb	
13) Vinyl Bromide	5.55	106	9720	0.17	ppb	97
14) Freon 11	5.83	101	41716	0.20	ppb	97
15) Acetone	5.99	58	6098	0.22	ppb	# 1
16) Pentane	6.10	42	9502m	0.22	ppb	
17) Isopropyl alcohol	6.10	45	9734m	0.17	ppb	
18) 1,1-dichloroethene	6.59	96	10517	0.17	ppb	90
19) Freon 113	6.78	101	25848	0.17	ppb	98
20) t-Butyl alcohol	6.81	59	14416	0.16	ppb	# 78
21) Methylene chloride	7.04	84	10556	0.18	ppb	97
22) Allyl chloride	7.02	41	10013	0.17	ppb	96
23) Carbon disulfide	7.20	76	37638	0.21	ppb	100
24) trans-1,2-dichloroethene	7.97	61	14332	0.16	ppb	96
25) methyl tert-butyl ether	8.00	73	23896	0.16	ppb	84
26) 1,1-dichloroethane	8.40	63	18292	0.16	ppb	99
27) Vinyl acetate	8.39	43	5606	0.16	ppb	91
28) Methyl Ethyl Ketone	8.90	72	4515	0.16	ppb	# 100
29) cis-1,2-dichloroethene	9.34	61	13595	0.17	ppb	97
30) Hexane	8.94	57	13364	0.16	ppb	84
31) Ethyl acetate	9.49	43	25335	0.15	ppb	98
32) Chloroform	9.95	83	27110	0.18	ppb	100
33) Tetrahydrofuran	10.14	42	8267	0.16	ppb	93
34) 1,2-dichloroethane	11.07	62	17764	0.18	ppb	97
36) 1,1,1-trichloroethane	10.78	97	21561	0.17	ppb	99
37) Cyclohexane	11.49	56	12393	0.16	ppb	94
38) Carbon tetrachloride	11.43	117	18371	0.16	ppb	96
39) Benzene	11.38	78	31519	0.17	ppb	98
40) Methyl methacrylate	12.96	41	9923	0.15	ppb	91
41) 1,4-dioxane	12.99	88	7796	0.18	ppb	96
42) 2,2,4-trimethylpentane	12.26	57	40706	0.16	ppb	91
43) Heptane	12.60	43	13583	0.16	ppb	94
44) Trichloroethene	12.73	130	16330	0.17	ppb	99
45) 1,2-dichloropropane	12.83	63	11736	0.17	ppb	93

(#) = qualifier out of range (m) = manual integration

## Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012310.D  
 Acq On : 23 Jan 2021 3:07 pm  
 Sample : A1UG\_0.15  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 15:49:33 2021

Vial: 9  
 Operator: RJF  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.17	83	24733	0.17	ppb	97
47) cis-1,3-dichloropropene	14.00	75	14184	0.15	ppb	94
48) trans-1,3-dichloropropene	14.77	75	9728	0.15	ppb	94
49) 1,1,2-trichloroethane	15.10	97	14963	0.17	ppb	99
51) Toluene	14.85	92	20552	0.16	ppb	95
52) Methyl Isobutyl Ketone	13.91	43	19390	0.16	ppb	93
53) Dibromochloromethane	15.83	129	22544	0.16	ppb	97
54) Methyl Butyl Ketone	15.28	43	17672	0.15	ppb	82
55) 1,2-dibromoethane	16.10	107	20657	0.15	ppb	99
56) Tetrachloroethylene	15.93	164	18228	0.18	ppb	95
57) Chlorobenzene	16.95	112	33604	0.16	ppb	99
58) Ethylbenzene	17.22	91	44925	0.15	ppb	96
59) m&p-xylene	17.44	91	73442	0.29	ppb	95
60) Nonane	17.85	43	18009	0.13	ppb	91
61) Styrene	17.91	104	27396	0.14	ppb	91
62) Bromoform	18.04	173	18728	0.15	ppb	99
63) o-xylene	17.95	91	40932	0.14	ppb	98
64) Cumene	18.57	105	51278	0.14	ppb	96
66) 1,1,2,2-tetrachloroethane	18.44	83	33811	0.17	ppb	98
67) Propylbenzene	19.18	120	14021	0.14	ppb	74
68) 2-Chlorotoluene	19.22	126	14075	0.14	ppb	98
69) 4-ethyltoluene	19.37	105	50913	0.14	ppb	97
70) 1,3,5-trimethylbenzene	19.44	105	45515	0.14	ppb	79
71) 1,2,4-trimethylbenzene	19.95	105	42007	0.14	ppb	98
72) 1,3-dichlorobenzene	20.28	146	33937	0.15	ppb	97
73) benzyl chloride	20.36	91	10703	0.14	ppb	94
74) 1,4-dichlorobenzene	20.44	146	32317	0.14	ppb	99
75) 1,2,3-trimethylbenzene	20.49	105	40518	0.13	ppb	98
76) 1,2-dichlorobenzene	20.80	146	31578	0.14	ppb	98
77) 1,2,4-trichlorobenzene	22.91	180	18037	0.13	ppb	99
78) Naphthalene	23.12	128	39855	0.12	ppb	99
79) Hexachloro-1,3-butadiene	23.24	225	30562	0.17	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS012310.D A123\_1UG.M Thu Feb 25 13:05:16 2021 MSD1



Quantitation Report (QT Reviewed)

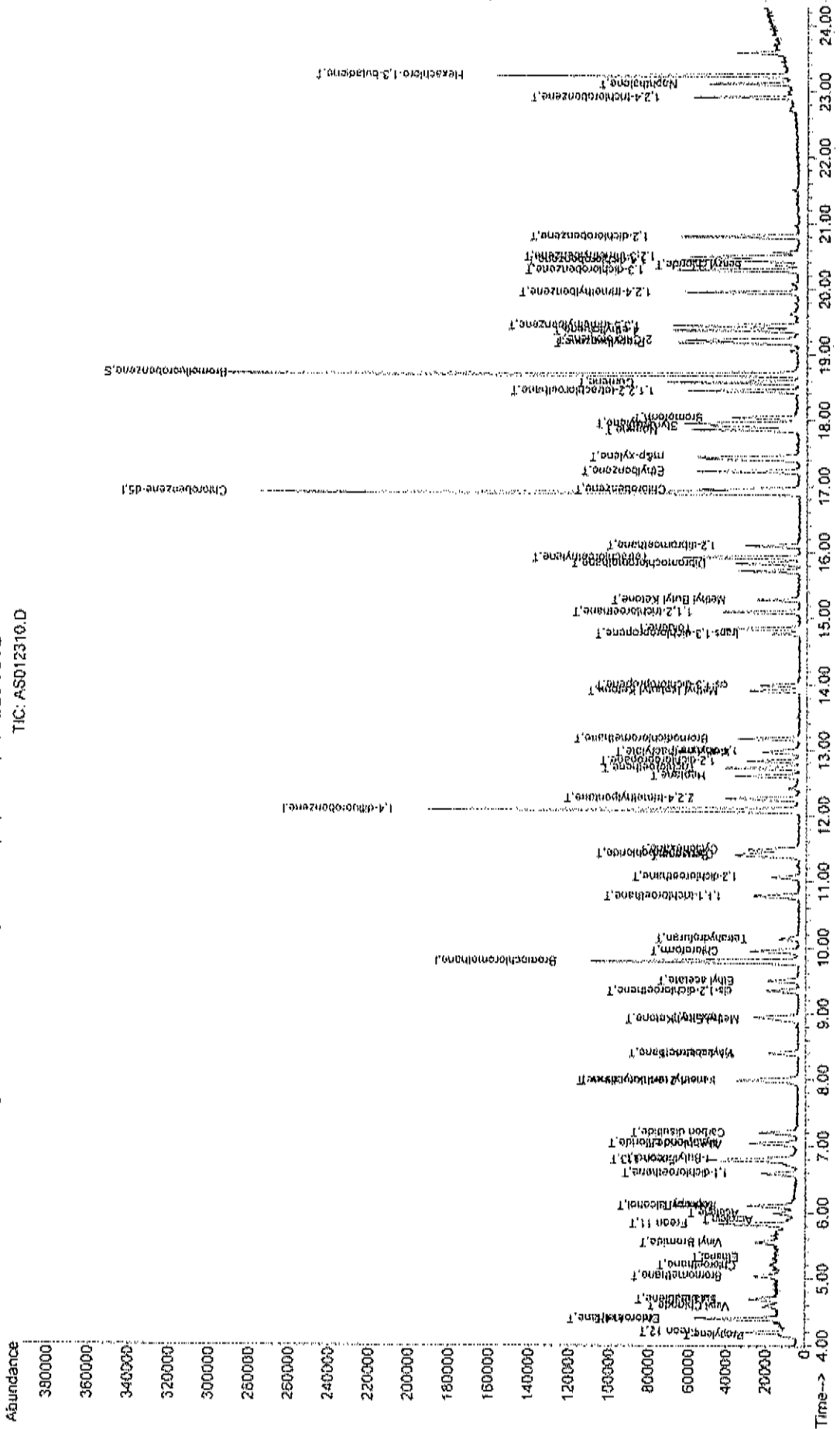
Data File : C:\HPCHEM\1\DATA2\AS012310.D  
 Acq On : 23 Jan 2021 3:07 pm  
 Sample : A1UG 0.15  
 Misc : A123\_IUG  
 MS Integration Params: REPRINT.P  
 Quant Time: Jan 23 15:58 2021

Vial: 9  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTS Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 12:58:36 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D

TIC: AS012310.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012311.D Vial: 10  
 Acq On : 23 Jan 2021 3:49 pm Operator: RJP  
 Sample : A1UG\_0.10 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 16:48:10 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.79	128	46833	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.08	114	206087	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	190719	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.69	95	137932	0.92	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
6) Vinyl Chloride	4.58	62	4399m	0.11	ppb	
26) 1,1-dichloroethane	8.41	63	12810	0.12	ppb	99
29) cis-1,2-dichloroethene	9.35	61	9349m	0.12	ppb	
38) Carbon tetrachloride	11.42	117	13633	0.12	ppb	98
44) Trichloroethene	12.73	130	11114m	0.12	ppb	
56) Tetrachloroethylene	15.92	164	12348	0.12	ppb	99
78) Naphthalene	23.12	128	27723	0.09	ppb	99

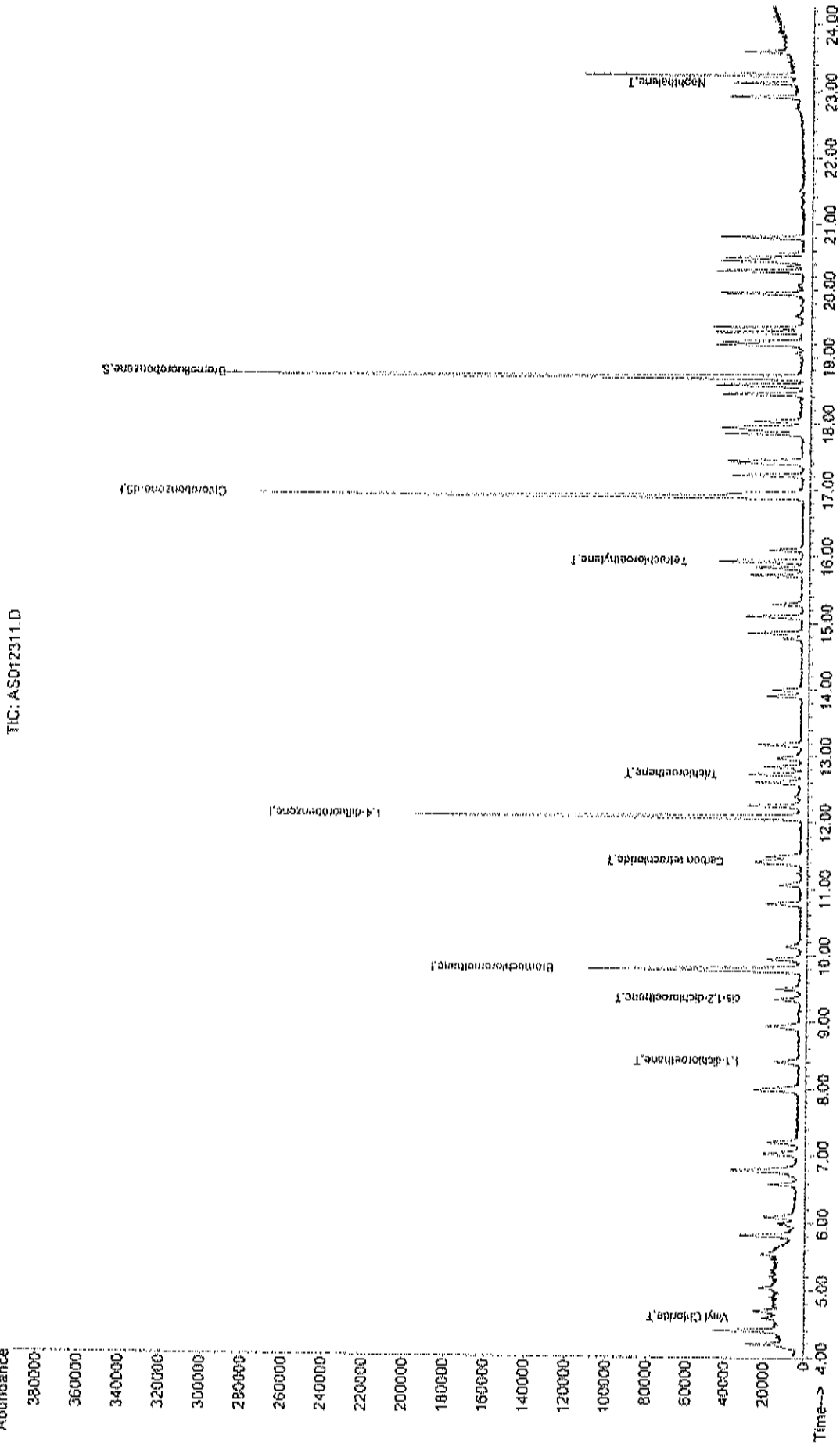
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012311.D  
Acq On : 23 Jan 2021 3:49 pm  
Sample : A1UG\_0.10  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Jan 23 16:50 2021

Vial: 10  
Operator: RJP  
Inst : MSD #1  
Multiplier: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 12:59:36 2021  
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D



TIC: AS012311.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012312.D Vial: 12  
 Acq On : 23 Jan 2021 5:13 pm Operator: RJP  
 Sample : A1UG\_0.04 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 21:15:43 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.79	128	45833	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.08	114	200503	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.90	117	185512	1.00	ppb	0.00

System Monitoring Compounds  
 65) Bromofluorobenzene 18.69 95 129450 0.89 ppb 0.00  
 Spiked Amount 1.000 Range 70 - 130 Recovery = 89.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Vinyl Chloride	4.60	62	2443	0.06	ppb	76
18) 1,1-dichloroethene	6.59	96	3156	0.06	ppb	90
29) cis-1,2-dichloroethene	9.34	61	4184	0.05	ppb	90
38) Carbon tetrachloride	11.42	117	5824	0.05	ppb	96
44) Trichloroethene	12.74	130	4220	0.05	ppb	85
78) Naphthalene	23.12	128	9888m	0.03	ppb	

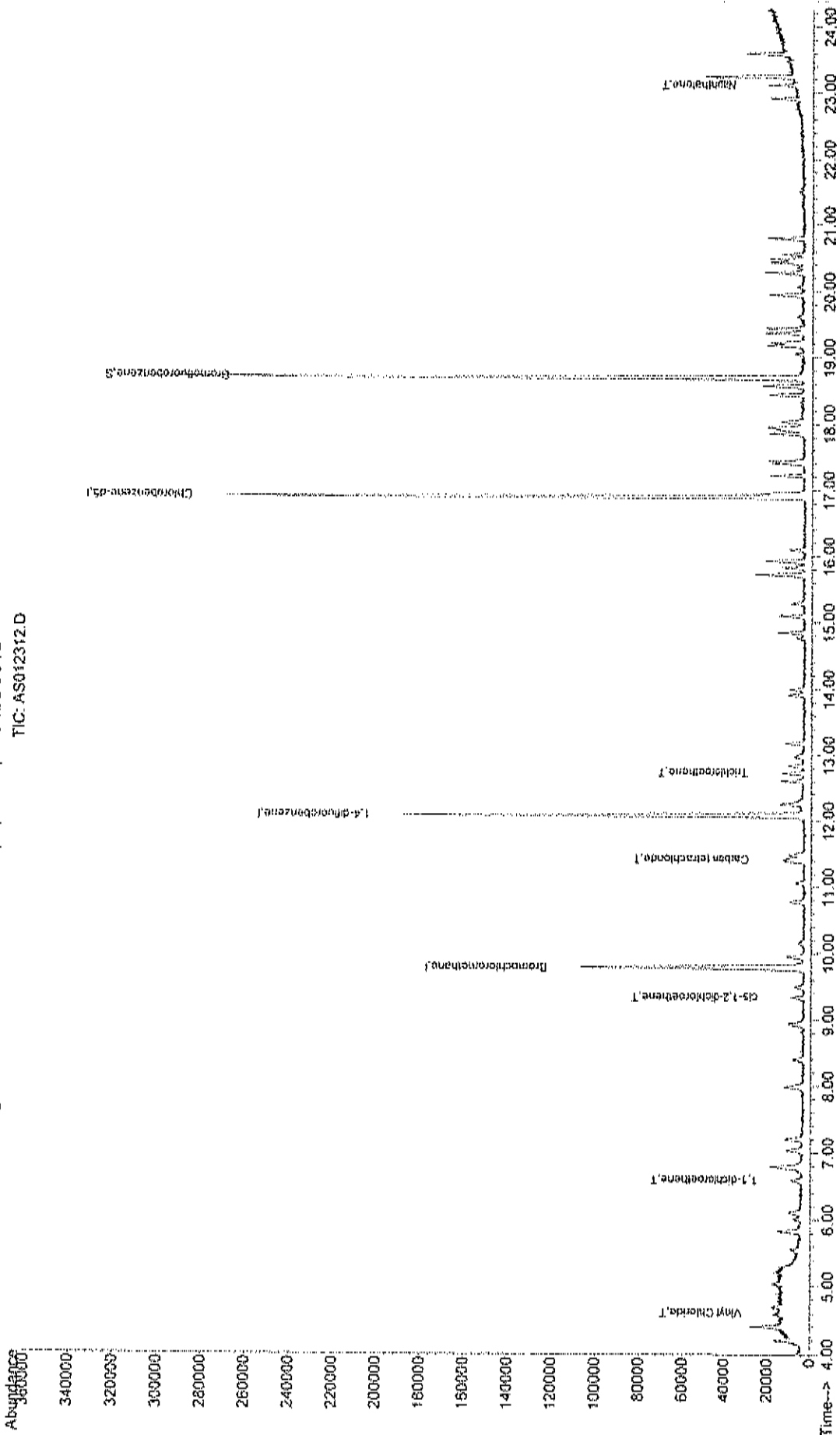
Quantitation Report (QF Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012312.D  
Acq On : 23 Jan 2021 5:13 pm  
Sample : A1UG 0.04  
Misc : A123\_LUG  
MS Integration Params: RTEINT.P  
Quant Time: Jan 23 21:18 2021

Vial: 12  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_LUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_LUG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 12:58:36 2021  
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012313.D Vial: 13  
 Acq On : 23 Jan 2021 5:55 pm Operator: RJP  
 Sample : A1UG\_0.03 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Jan 23 21:15:56 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 15:46:23 2021  
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.79	128	46903	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.09	114	203135	1.00	ppb	0.00
50) Chlorobenzene-d5	16.90	117	189478	1.00	ppb	0.00

System Monitoring Compounds  
 65) Bromofluorobenzene 18.69 95 128129 0.86 ppb 0.00  
 Spiked Amount 1.000 Range 70 - 130 Recovery = 86.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
38) Carbon tetrachloride	11.43	117	4783m	0.04	ppb	
44) Trichloroethene	12.73	130	3599m	0.04	ppb	
78) Naphthalene	23.12	128	9072	0.03	ppb	99

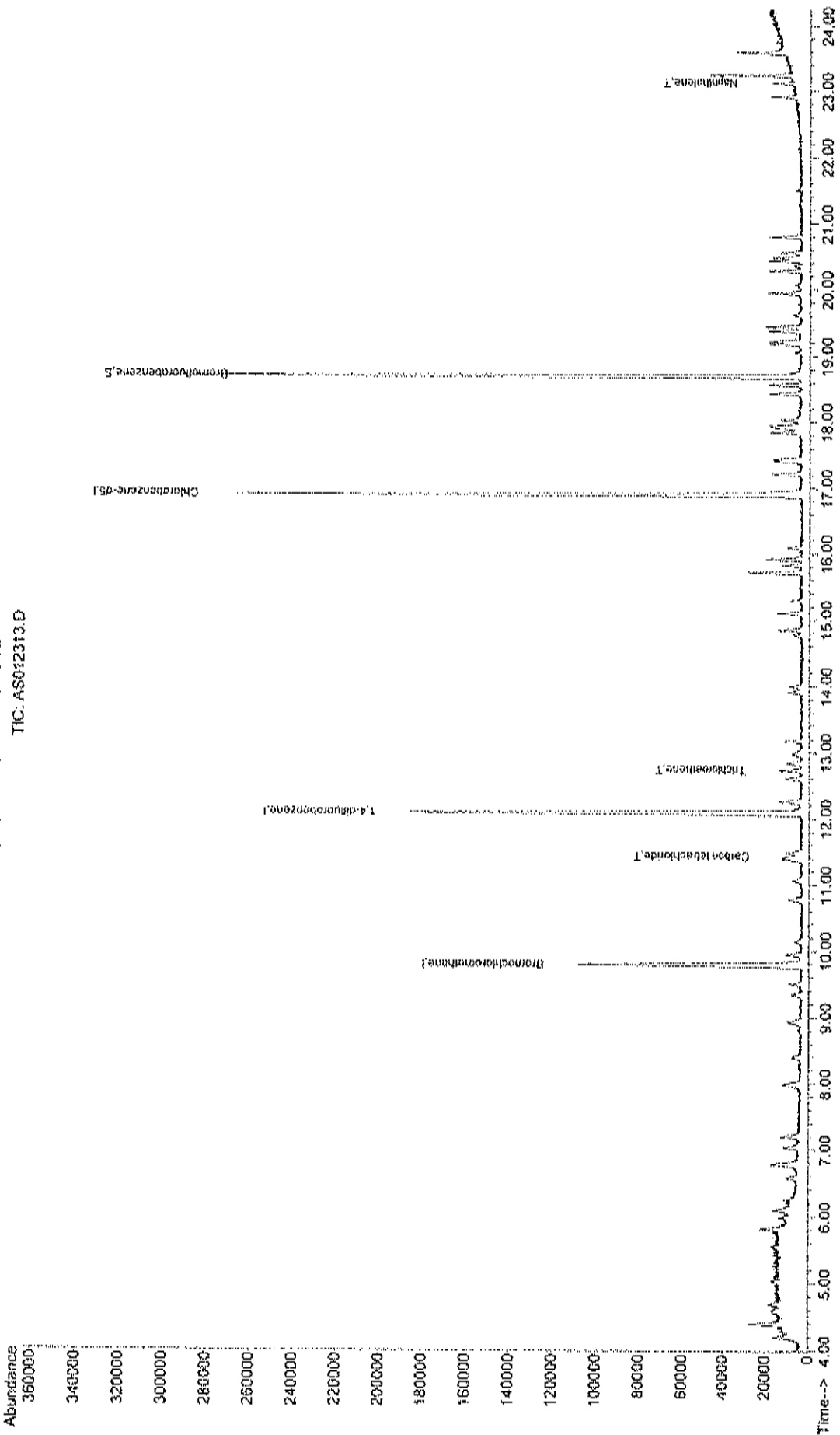
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AS012313.D  
Acq On : 23 Jan 2021 5:55 pm  
Sample : A1UG.0.03  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Jan 23 21:20 2021

Vial: 13  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 12:58:36 2021  
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AS012306.D



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION



Data File : C:\HPCHEM\1\DATA\AS021502.D

Vial: 2

Acq On : 15 Feb 2021 2:02 pm

Operator: RJP

Sample : A1UG\_1.0

Inst : MSD #1

Misc : A123\_LUG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A123\_LUG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 25 13:17:07 2021

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	82	0.00
2 T	Propylene	0.774	0.727	6.1	80	0.00
3 T	Freon 12	4.340	4.149	4.4	80	0.00
4 T	Chloromethane	0.892	0.950	-6.5	93	0.00
5 T	Freon 114	3.183	3.201	-0.6	85	0.00
6 T	Vinyl Chloride	0.944	0.931	1.4	89	0.00
7 T	Butane	0.877	0.948	-8.1	93	0.00
8 T	1,3-butadiene	0.667	0.661	0.9	90	0.00
9 T	Bromomethane	1.204	1.153	4.2	82	0.00
10 T	Chloroethane	0.433	0.453	-4.6	89	0.00
11 T	Ethanol	0.164	0.218	-32.9#	121	0.00
12 T	Acrolein	0.215	0.192	10.7	76	0.00
13 T	Vinyl Bromide	1.213	1.116	8.0	79	0.00
14 T	Freon 11	4.412	4.599	-4.2	89	0.00
15 T	Acetone	0.614	0.723	-17.8	102	0.00
16 T	Pentane	0.980	0.967	1.3	87	0.00
17 T	Isopropyl alcohol	1.233	1.509	-22.4	104	0.00
18 T	1,1-dichloroethene	1.382	1.186	14.2	74	0.00
19 T	Freon 113	3.233	3.040	6.0	78	0.00
20 t	t-Butyl alcohol	1.932	1.972	-2.1	85	0.00
21 T	Methylene chloride	1.277	1.219	4.5	82	0.00
22 T	Allyl chloride	1.227	1.211	1.3	83	0.00
23 T	Carbon disulfide	4.015	4.142	-3.2	91	0.00
24 T	trans-1,2-dichloroethene	1.860	1.769	4.9	80	0.00
25 T	methyl tert-butyl ether	3.109	2.988	3.9	81	0.00
26 T	1,1-dichloroethane	2.398	2.335	2.6	83	0.00
27 T	Vinyl acetate	0.737	0.626	15.1	70	0.00
28 T	Methyl Ethyl Ketone	0.603	0.576	4.5	81	0.00
29 T	cis-1,2-dichloroethene	1.825	1.665	8.8	81	0.00
30 T	Hexane	1.799	1.695	5.8	79	0.00
31 T	Ethyl acetate	3.368	3.439	-2.1	83	0.00
32 T	Chloroform	3.303	3.182	3.7	82	0.00
33 T	Tetrahydrofuran	1.087	1.010	7.1	77	0.00
34 T	1,2-dichloroethane	2.150	2.025	5.8	81	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	75	0.00
36 T	1,1,1-trichloroethane	0.624	0.778	-24.7	97	0.00
37 T	Cyclohexane	0.374	0.386	-3.2	78	0.00
38 T	Carbon tetrachloride	0.600	0.746	-24.3	103	0.00
39 T	Benzene	0.906	0.940	-3.8	81	0.00
40 T	Methyl methacrylate	0.312	0.334	-7.1	81	0.00
41 T	1,4-dioxane	0.217	0.213	1.8	77	0.00
42 T	2,2,4-trimethylpentane	1.209	1.259	-4.1	80	0.00
43 T	Heptane	0.413	0.431	-4.4	80	0.00
44 T	Trichloroethene	0.498	0.477	4.2	78	0.00
45 T	1,2-dichloropropane	0.331	0.366	-10.6	85	0.00
46 T	Bromodichloromethane	0.705	0.788	-11.8	87	0.00
47 T	cis-1,3-dichloropropene	0.453	0.552	-21.9	93	0.00
48 T	trans-1,3-dichloropropene	0.315	0.402	-27.6	99	0.00
49 T	1,1,2-trichloroethane	0.435	0.464	-6.7	84	0.00

-----  
(#) = Out of Range

AS021502.D A123\_LUG.M

Thu Feb 25 13:20:07 2021

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AS021502.D

Vial: 2

Acq On : 15 Feb 2021 2:02 pm

Operator: RJP

Sample : A1UG\_1.0

Inst : MSD #1

Misc : A123\_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Thu Feb 25 13:17:07 2021

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min

Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 T	Toluene	0.679	0.664	2.2	77	0.00
52 T	Methyl Isobutyl Ketone	0.627	0.635	-1.3	80	0.00
53 T	Dibromochloromethane	0.724	0.790	-9.1	87	0.00
54 T	Methyl Butyl Ketone	0.609	0.619	-1.6	79	0.00
55 T	1,2-dibromoethane	0.697	0.724	-3.9	82	0.00
56 T	Tetrachloroethylene	0.555	0.522	5.9	77	0.00
57 T	Chlorobenzene	1.065	1.033	3.0	77	0.00
58 T	Ethylbenzene	1.558	1.479	5.1	74	0.00
59 T	m&p-xylene	1.278	1.231	3.7	74	0.00
60 T	Nonane	0.676	0.698	-3.3	76	0.00
61 T	Styrene	0.977	0.925	5.3	72	0.00
62 T	Bromoform	0.646	0.647	-0.2	79	0.00
63 T	o-xylene	1.445	1.401	3.0	75	0.00
64 T	Cumene	1.807	1.616	10.6	69	0.00
65 S	Bromofluorobenzene	0.745	0.787	-5.6	78	0.00
66 T	1,1,2,2-tetrachloroethane	1.062	1.074	-1.1	81	0.00
67 T	Propylbenzene	0.503	0.458	8.9	70	0.00
68 T	2-Chlorotoluene	0.502	0.484	3.6	73	0.00
69 T	4-ethyltoluene	1.834	1.704	7.1	70	0.00
70 T	1,3,5-trimethylbenzene	1.615	1.540	4.6	72	0.00
71 T	1,2,4-trimethylbenzene	1.534	1.441	6.1	71	0.00
72 T	1,3-dichlorobenzene	1.164	1.119	3.9	74	0.00
73 T	benzyl chloride	0.412	0.805	-95.4#	155#	0.00
74 T	1,4-dichlorobenzene	1.152	1.113	3.4	73	0.00
75 T	1,2,3-trimethylbenzene	1.548	1.500	3.1	73	0.00
76 T	1,2-dichlorobenzene	1.099	1.083	1.5	74	0.00
77 T	1,2,4-trichlorobenzene	0.699	0.618	11.6	67	0.00
78 T	Naphthalene	1.546	1.311	15.2	62	0.00
79 T	Hexachloro-1,3-butadiene	0.964	0.900	6.6	74	0.00

Data File : C:\HPCHEM\1\DATA\AS021502.D  
 Acq On : 15 Feb 2021 2:02 pm  
 Sample : A1UG\_1.0  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:40 2021

Vial: 2  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.76	128	40533	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.06	114	166475	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.89	117	160217	1.00	ppb	-0.02

#### System Monitoring Compounds

65) Bromofluorobenzene	18.63	95	126093	1.06	ppb	-0.07
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

#### Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	29470	0.94	ppb	94
3) Freon 12	4.18	85	168174	0.96	ppb	98
4) Chloromethane	4.38	50	38500	1.06	ppb	99
5) Freon 114	4.38	85	129732	1.01	ppb	94
6) Vinyl Chloride	4.58	62	37752	0.99	ppb	97
7) Butane	4.68	43	38419	1.08	ppb	97
8) 1,3-butadiene	4.67	39	26802	0.99	ppb	98
9) Bromomethane	5.02	94	46727	0.96	ppb	96
10) Chloroethane	5.20	64	18345	1.05	ppb	89
11) Ethanol	5.29	45	8847m	1.33	ppb	
12) Acrolein	5.86	56	7778	0.89	ppb	83
13) Vinyl Bromide	5.53	106	45241	0.92	ppb	98
14) Freon 11	5.81	101	186417	1.04	ppb	98
15) Acetone	5.97	58	29310	1.18	ppb	# 76
16) Pentane	6.08	42	39185	0.99	ppb	98
17) Isopropyl alcohol	6.08	45	61152	1.22	ppb	97
18) 1,1-dichloroethene	6.57	96	48054	0.86	ppb	# 88
19) Freon 113	6.76	101	123210	0.94	ppb	98
20) t-Butyl alcohol	6.79	59	79912	1.02	ppb	# 86
21) Methylene chloride	7.02	84	49425	0.95	ppb	95
22) Allyl chloride	7.00	41	49100	0.99	ppb	98
23) Carbon disulfide	7.18	76	167899	1.03	ppb	98
24) trans-1,2-dichloroethene	7.96	61	71715	0.95	ppb	92
25) methyl tert-butyl ether	7.98	73	121099	0.96	ppb	83
26) 1,1-dichloroethane	8.39	63	94637	0.97	ppb	97
27) Vinyl acetate	8.37	43	25371	0.85	ppb	98
28) Methyl Ethyl Ketone	8.87	72	23341	0.96	ppb	# 100
29) cis-1,2-dichloroethene	9.32	61	67488	0.91	ppb	95
30) Hexane	8.93	57	68688	0.94	ppb	87
31) Ethyl acetate	9.46	43	139394	1.02	ppb	98
32) Chloroform	9.93	83	128957	0.96	ppb	99
33) Tetrahydrofuran	10.10	42	40941	0.93	ppb	89
34) 1,2-dichloroethane	11.04	62	82061	0.94	ppb	99
36) 1,1,1-trichloroethane	10.76	97	129482	1.25	ppb	98
37) Cyclohexane	11.46	56	64236	1.03	ppb	94
38) Carbon tetrachloride	11.40	117	124152	1.24	ppb	99
39) Benzene	11.37	78	156511	1.04	ppb	97
40) Methyl methacrylate	12.94	41	55679	1.07	ppb	92
41) 1,4-dioxane	12.96	88	35536	0.98	ppb	95
42) 2,2,4-trimethylpentane	12.24	57	209642	1.04	ppb	91
43) Heptane	12.59	43	71741	1.04	ppb	93
44) Trichloroethene	12.71	130	79464	0.96	ppb	99
45) 1,2-dichloropropane	12.82	63	60910	1.11	ppb	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AS021502.D  
 Acq On : 15 Feb 2021 2:02 pm  
 Sample : ALUG\_1.0  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:40 2021

Vial: 2  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.16	83	131105	1.12	ppb	100
47) cis-1,3-dichloropropene	13.98	75	91863	1.22	ppb	97
48) trans-1,3-dichloropropene	14.75	75	66878m	1.28	ppb	
49) 1,1,2-trichloroethane	15.09	97	77311	1.07	ppb	99
51) Toluene	14.83	92	106434	0.98	ppb	99
52) Methyl Isobutyl Ketone	13.89	43	101681	1.01	ppb	91
53) Dibromochloromethane	15.82	129	126561	1.09	ppb	100
54) Methyl Butyl Ketone	15.27	43	99118	1.02	ppb	86
55) 1,2-dibromoethane	16.08	107	115945	1.04	ppb	98
56) Tetrachloroethylene	15.91	164	83633	0.94	ppb	95
57) Chlorobenzene	16.94	112	165474	0.97	ppb	99
58) Ethylbenzene	17.21	91	236994	0.95	ppb	98
59) m&p-xylene	17.43	91	394569	1.93	ppb	97
60) Nonane	17.83	43	111769	1.03	ppb	86
61) Styrene	17.88	104	148250	0.95	ppb	91
62) Bromoform	18.00	173	103584	1.00	ppb	99
63) o-xylene	17.92	91	224416	0.97	ppb	96
64) Cumene	18.52	105	258889	0.89	ppb	98
66) 1,1,2,2-tetrachloroethane	18.39	83	172143	1.01	ppb	99
67) Propylbenzene	19.10	120	73426	0.91	ppb	73
68) 2-Chlorotoluene	19.14	126	77485	0.96	ppb	# 91
69) 4-ethyltoluene	19.29	105	273087m	0.93	ppb	
70) 1,3,5-trimethylbenzene	19.36	105	246690	0.95	ppb	78
71) 1,2,4-trimethylbenzene	19.87	105	230811	0.94	ppb	98
72) 1,3-dichlorobenzene	20.21	146	179234	0.96	ppb	98
73) benzyl chloride	20.28	91	128980	1.95	ppb	88
74) 1,4-dichlorobenzene	20.36	146	178249	0.97	ppb	99
75) 1,2,3-trimethylbenzene	20.41	105	240383	0.97	ppb	97
76) 1,2-dichlorobenzene	20.73	146	173492	0.99	ppb	99
77) 1,2,4-trichlorobenzene	22.94	180	99064	0.88	ppb	100
78) Naphthalene	23.15	128	210114	0.85	ppb	100
79) Hexachloro-1,3-butadiene	23.27	225	144175	0.93	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS021502.D A123\_1UG.M Thu Feb 25 13:20:11 2021 MSD1

Quantitation Report (QT Reviewed)

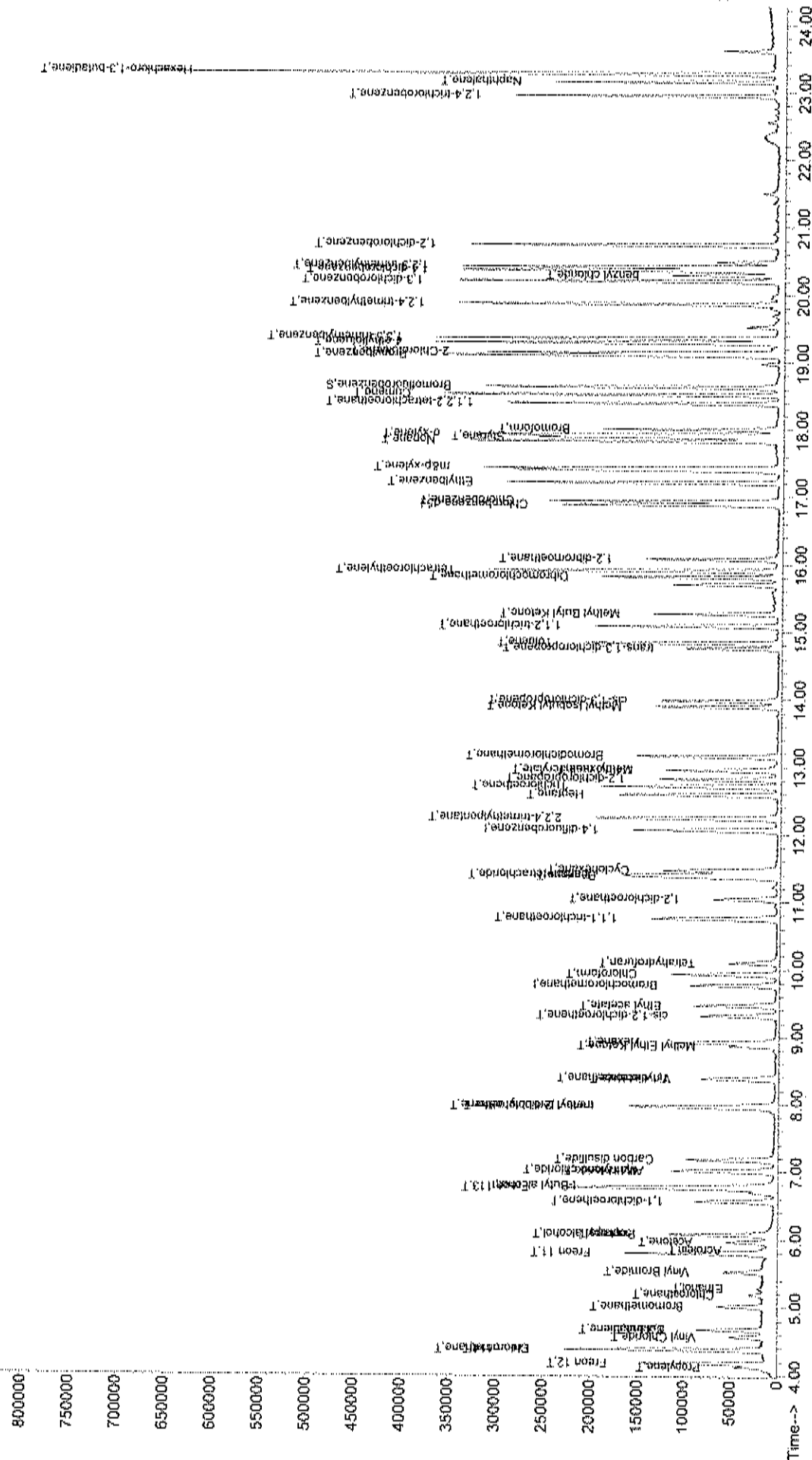
Data File : C:\HPCHEM\1\DATA\AS021502.D  
Acq On : 15 Feb 2021 2:02 pm  
Sample : A1UG 1.0  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 16 8:52 2021

Vial: 2  
Operator: RJP  
Inst : MSD #1  
Multiplier: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:08 2021  
Response via : Initial Calibration

Abundance  
TIC: AS021502.D



Data File : C:\HPCHEM\1\DATA\AS021602.D  
 Acq On : 16 Feb 2021 10:50 am  
 Sample : AIUG\_1.0  
 Misc : A123\_IUG  
 MS Integration Params: RTEINT.P

Vial: 2  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 13:17:08 2021  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	82	0.00
2 T	Propylene	0.774	0.607	21.6	67	0.00
3 T	Freon 12	4.340	3.610	16.8	70	0.00
4 T	Chloromethane	0.892	0.845	5.3	83	0.00
5 T	Freon 114	3.183	2.823	11.3	75	0.00
6 T	Vinyl Chloride	0.944	0.770	18.4	74	0.00
7 T	Butane	0.877	0.774	11.7	76	0.00
8 T	1,3-butadiene	0.667	0.584	12.4	79	0.01
9 T	Bromomethane	1.204	0.944	21.6	67	0.01
10 T	Chloroethane	0.433	0.404	6.7	79	0.01
11 T	Ethanol	0.164	0.228	-39.0#	126	0.00
12 T	Acrolein	0.215	0.166	22.8	66	0.02
13 T	Vinyl Bromide	1.213	1.174	3.2	83	0.00
14 T	Freon 11	4.412	4.159	5.7	81	0.00
15 T	Acetone	0.614	0.574	6.5	81	0.00
16 T	Pentane	0.980	0.814	16.9	73	0.00
17 T	Isopropyl alcohol	1.233	1.288	-4.5	88	0.00
18 T	1,1-dichloroethene	1.382	1.196	13.5	75	0.00
19 T	Freon 113	3.233	2.684	17.0	69	0.00
20 t	t-Butyl alcohol	1.932	2.012	-4.1	86	0.00
21 T	Methylene chloride	1.277	1.113	12.8	74	0.00
22 T	Allyl chloride	1.227	0.996	18.8	68	0.00
23 T	Carbon disulfide	4.015	3.505	12.7	76	0.00
24 T	trans-1,2-dichloroethene	1.860	1.562	16.0	71	0.00
25 T	methyl tert-butyl ether	3.109	3.229	-3.9	87	0.00
26 T	1,1-dichloroethane	2.398	1.995	16.8	71	0.00
27 T	Vinyl acetate	0.737	0.531	28.0	59	0.00
28 T	Methyl Ethyl Ketone	0.603	0.544	9.8	76	0.00
29 T	cis-1,2-dichloroethene	1.825	1.553	14.9	75	0.00
30 T	Hexane	1.799	1.607	10.7	75	0.00
31 T	Ethyl acetate	3.368	2.809	16.6	68	0.00
32 T	Chloroform	3.303	2.782	15.8	71	0.00
33 T	Tetrahydrofuran	1.087	0.913	16.0	69	0.00
34 T	1,2-dichloroethane	2.150	1.750	18.6	70	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
36 T	1,1,1-trichloroethane	0.624	0.588	5.8	85	0.00
37 T	Cyclohexane	0.374	0.310	17.1	73	0.00
38 T	Carbon tetrachloride	0.600	0.499	16.8	80	0.00
39 T	Benzene	0.906	0.758	16.3	76	0.00
40 T	Methyl methacrylate	0.312	0.253	18.9	71	0.00
41 T	1,4-dioxane	0.217	0.185	14.7	77	0.00
42 T	2,2,4-trimethylpentane	1.209	1.013	16.2	75	0.00
43 T	Heptane	0.413	0.348	15.7	75	0.00
44 T	Trichloroethene	0.498	0.435	12.7	82	0.00
45 T	1,2-dichloropropane	0.331	0.270	18.4	73	0.00
46 T	Bromodichloromethane	0.705	0.559	20.7	71	0.00
47 T	cis-1,3-dichloropropene	0.453	0.428	5.5	84	0.00
48 T	trans-1,3-dichloropropene	0.315	0.327	-3.8	94	0.00
49 T	1,1,2-trichloroethane	0.435	0.362	16.8	76	0.00

(#) = Out of Range

Centek Laboratories, LLC Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AS021602.D Vial: 2  
 Acq On : 16 Feb 2021 10:50 am Operator: RJP  
 Sample : A1UG\_1.0 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 13:17:08 2021  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 T Toluene	0.679	0.637	6.2	81	0.00
52 T Methyl Isobutyl Ketone	0.627	0.486	22.5	68	0.00
53 T Dibromochloromethane	0.724	0.618	14.6	75	0.00
54 T Methyl Butyl Ketone	0.609	0.468	23.2	66	0.00
55 T 1,2-dibromoethane	0.697	0.643	7.7	80	0.00
56 T Tetrachloroethylene	0.555	0.518	6.7	84	0.00
57 T Chlorobenzene	1.065	0.973	8.6	80	0.00
58 T Ethylbenzene	1.558	1.461	6.2	81	0.00
59 T m&p-xylene	1.278	1.198	6.3	79	0.00
60 T Nonane	0.676	0.585	13.5	71	0.00
61 T Styrene	0.977	0.939	3.9	81	0.01
62 T Bromoform	0.646	0.504	22.0	68	0.02
63 T o-xylene	1.445	1.318	8.8	78	0.02
64 T Cumene	1.807	1.788	1.1	84	0.04
65 S Bromofluorobenzene	0.745	0.782	-5.0	86	0.04
66 T 1,1,2,2-tetrachloroethane	1.062	0.897	15.5	74	0.04
67 T Propylbenzene	0.503	0.503	0.0	85	0.06
68 T 2-Chlorotoluene	0.502	0.496	1.2	83	0.07
69 T 4-ethyltoluene	1.834	1.806	1.5	82	0.07
70 T 1,3,5-trimethylbenzene	1.615	1.574	2.5	81	0.07
71 T 1,2,4-trimethylbenzene	1.534	1.549	-1.0	84	0.07
72 T 1,3-dichlorobenzene	1.164	1.151	1.1	84	0.07
73 T benzyl chloride	0.412	0.416	-1.0	88	0.07
74 T 1,4-dichlorobenzene	1.152	1.124	2.4	82	0.07
75 T 1,2,3-trimethylbenzene	1.548	1.524	1.6	82	0.06
76 T 1,2-dichlorobenzene	1.099	1.088	1.0	83	0.05
77 T 1,2,4-trichlorobenzene	0.699	0.687	1.7	82	-0.04
78 T Naphthalene	1.546	1.463	5.4	76	-0.04
79 T Hexachloro-1,3-butadiene	0.964	0.924	4.1	84	-0.04

Data File : C:\HPCHEM\1\DATA\AS021602.D  
 Acq On : 16 Feb 2021 10:50 am  
 Sample : A1UG\_1.0  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 14:12:23 2021

Vial: 2  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.77	128	40377	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.06	114	192908	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	176845	1.00	ppb	-0.02

## System Monitoring Compounds

65) Bromofluorobenzene	18.68	95	138360	1.05	ppb	-0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	105.00%

## Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	24496	0.78	ppb	95
3) Freon 12	4.19	85	145770	0.83	ppb	98
4) Chloromethane	4.39	50	34101	0.95	ppb	97
5) Freon 114	4.39	85	113970	0.89	ppb	100
6) Vinyl Chloride	4.58	62	31109	0.82	ppb	95
7) Butane	4.68	43	31246	0.88	ppb	98
8) 1,3-butadiene	4.69	39	23560	0.87	ppb	96
9) Bromomethane	5.03	94	38119	0.78	ppb	100
10) Chloroethane	5.21	64	16304	0.93	ppb	89
11) Ethanol	5.29	45	9225	1.39	ppb	75
12) Acrolein	5.88	56	6714	0.77	ppb	# 77
13) Vinyl Bromide	5.54	106	47404	0.97	ppb	99
14) Freon 11	5.82	101	167920	0.94	ppb	99
15) Acetone	5.98	58	23164	0.93	ppb	# 1
16) Pentane	6.09	42	32882	0.83	ppb	# 16
17) Isopropyl alcohol	6.08	45	51990	1.04	ppb	# 1
18) 1,1-dichloroethene	6.57	96	48310	0.87	ppb	97
19) Freon 113	6.77	101	108371	0.83	ppb	95
20) t-Butyl alcohol	6.79	59	81254	1.04	ppb	95
21) Methylene chloride	7.03	84	44939	0.87	ppb	94
22) Allyl chloride	7.00	41	40215	0.81	ppb	90
23) Carbon disulfide	7.19	76	141508	0.87	ppb	98
24) trans-1,2-dichloroethene	7.96	61	63055	0.84	ppb	98
25) methyl tert-butyl ether	7.98	73	130365	1.04	ppb	100
26) 1,1-dichloroethane	8.39	63	80559	0.83	ppb	98
27) Vinyl acetate	8.37	43	21423	0.72	ppb	100
28) Methyl Ethyl Ketone	8.86	72	21970	0.90	ppb	# 100
29) cis-1,2-dichloroethene	9.32	61	62713	0.85	ppb	97
30) Hexane	8.93	57	64875	0.89	ppb	97
31) Ethyl acetate	9.47	43	113420	0.83	ppb	100
32) Chloroform	9.93	83	112325	0.84	ppb	100
33) Tetrahydrofuran	10.09	42	36867	0.84	ppb	98
34) 1,2-dichloroethane	11.05	62	70678	0.81	ppb	99
36) 1,1,1-trichloroethane	10.75	97	113485	0.94	ppb	99
37) Cyclohexane	11.47	56	59806	0.83	ppb	89
38) Carbon tetrachloride	11.41	117	96310	0.83	ppb	99
39) Benzene	11.37	78	146210	0.84	ppb	99
40) Methyl methacrylate	12.95	41	48879	0.81	ppb	97
41) 1,4-dioxane	12.97	88	35714	0.85	ppb	91
42) 2,2,4-trimethylpentane	12.23	57	195504	0.84	ppb	97
43) Heptane	12.59	43	67115	0.84	ppb	97
44) Trichloroethene	12.71	130	83877	0.87	ppb	97
45) 1,2-dichloropropane	12.82	63	52010	0.82	ppb	99

(#) = qualifier out of range (m) = manual integration



Data File : C:\HPCHEM\1\DATA\AS021602.D  
 Acq On : 16 Feb 2021 10:50 am  
 Sample : A1UG\_1.0  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 14:12:23 2021

Vial: 2  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.16	83	107743	0.79	ppb	100
47) cis-1,3-dichloropropene	13.98	75	82553	0.95	ppb	97
48) trans-1,3-dichloropropene	14.76	75	63125	1.04	ppb	99
49) 1,1,2-trichloroethane	15.08	97	69823	0.83	ppb	99
51) Toluene	14.83	92	112607	0.94	ppb	99
52) Methyl Isobutyl Ketone	13.89	43	85958	0.77	ppb	98
53) Dibromochloromethane	15.82	129	109245	0.85	ppb	99
54) Methyl Butyl Ketone	15.26	43	82810	0.77	ppb	96
55) 1,2-dibromoethane	16.08	107	113766	0.92	ppb	99
56) Tetrachloroethylene	15.91	164	91612	0.93	ppb	98
57) Chlorobenzene	16.93	112	172090	0.91	ppb	97
58) Ethylbenzene	17.21	91	258432	0.94	ppb	99
59) m&p-xylene	17.43	91	423588	1.87	ppb	100
60) Nonane	17.84	43	103465	0.87	ppb	95
61) Styrene	17.90	104	166131	0.96	ppb	96
62) Bromoform	18.03	173	89191	0.78	ppb	100
63) o-xylene	17.94	91	232997	0.91	ppb	99
64) Cumene	18.56	105	316205	0.99	ppb	99
66) 1,1,2,2-tetrachloroethane	18.43	83	158623	0.84	ppb	99
67) Propylbenzene	19.17	120	88968	1.00	ppb	92
68) 2-Chlorotoluene	19.21	126	87723	0.99	ppb	# 89
69) 4-ethyltoluene	19.36	105	319344	0.98	ppb	100
70) 1,3,5-trimethylbenzene	19.43	105	278330	0.97	ppb	74
71) 1,2,4-trimethylbenzene	19.94	105	273886	1.01	ppb	99
72) 1,3-dichlorobenzene	20.27	146	203593	0.99	ppb	99
73) benzyl chloride	20.35	91	73583	1.01	ppb	99
74) 1,4-dichlorobenzene	20.42	146	198857	0.98	ppb	99
75) 1,2,3-trimethylbenzene	20.48	105	269518	0.98	ppb	99
76) 1,2-dichlorobenzene	20.78	146	192485	0.99	ppb	99
77) 1,2,4-trichlorobenzene	22.91	180	121524	0.98	ppb	100
78) Naphthalene	23.11	128	258705	0.95	ppb	99
79) Hexachloro-1,3-butadiene	23.23	225	163374	0.96	ppb	99

-----  
 (#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS021602.D A123\_1UG.M Thu Feb 25 13:21:45 2021 MSD1



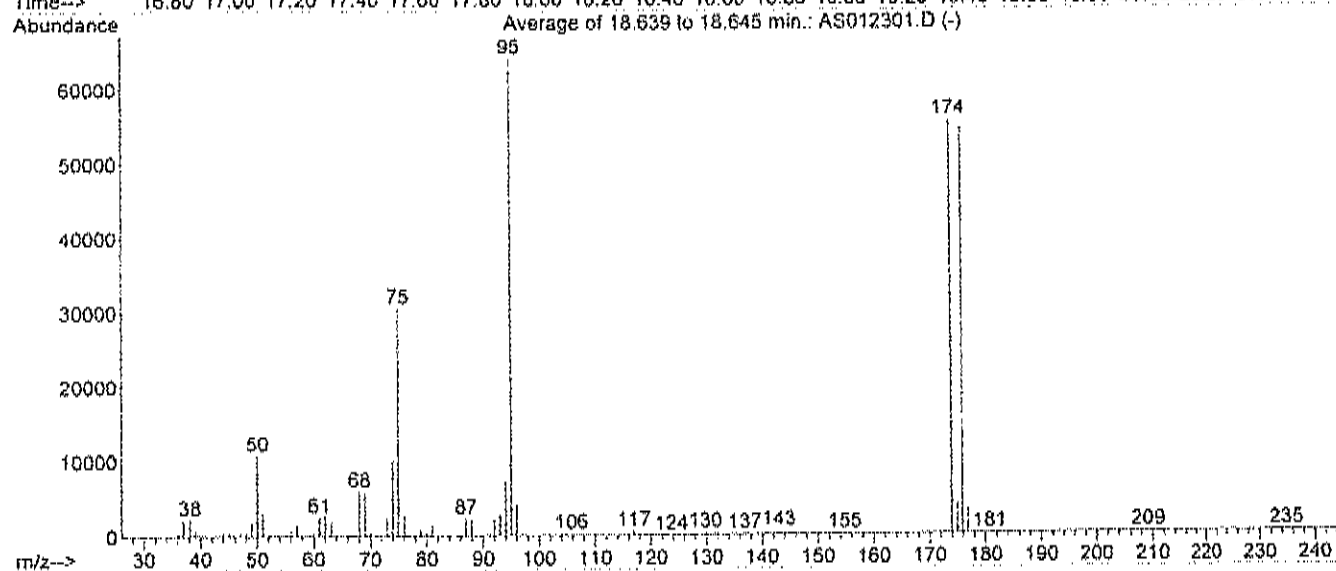
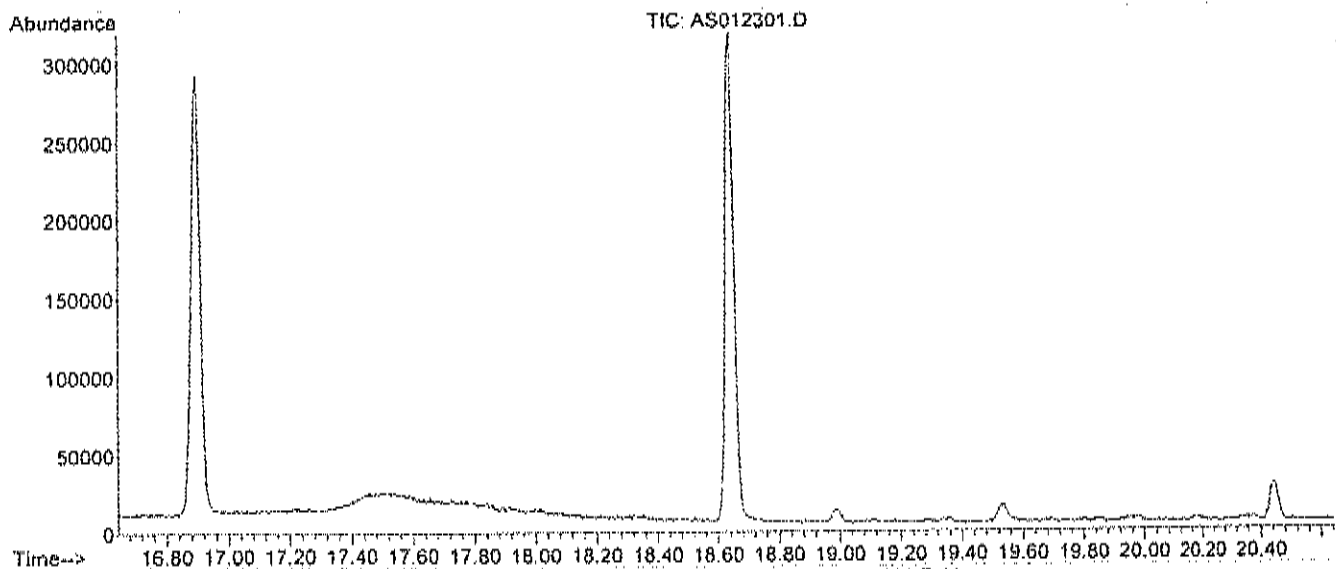
GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA2\AS012301.D Vial: 22  
 Acq On : 23 Jan 2021 8:00 am Operator: RJP  
 Sample : BFB1UG Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration

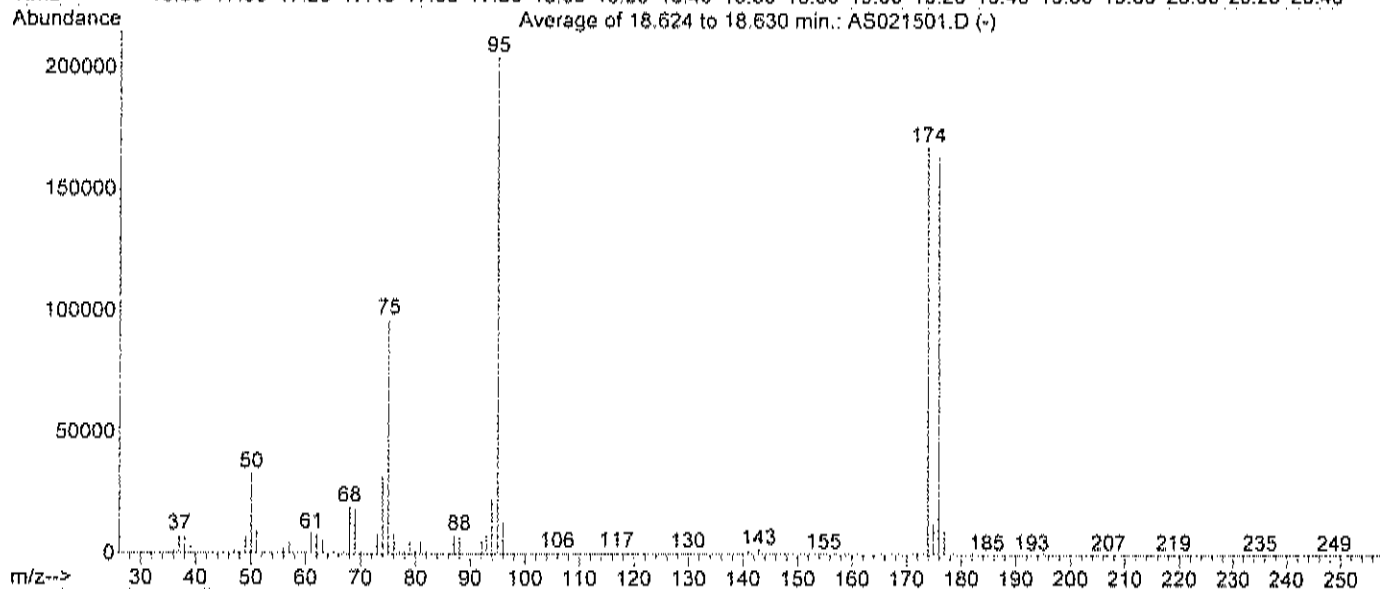
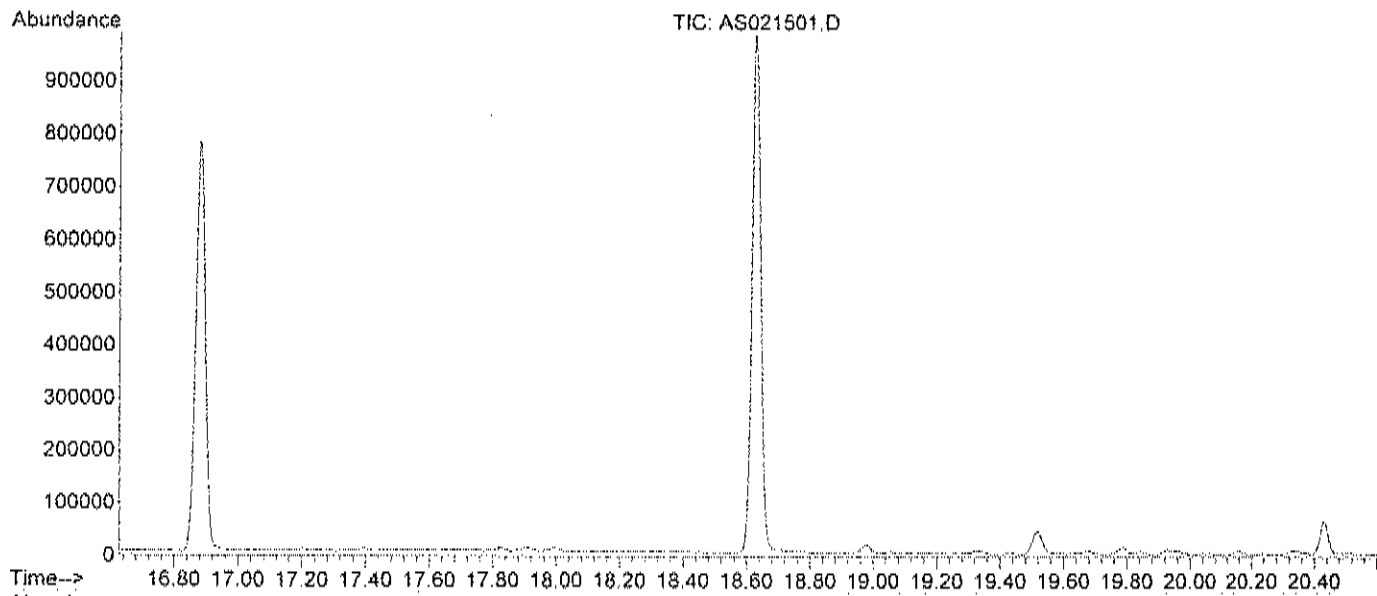


Spectrum Information: Average of 18.639 to 18.645 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	10774	PASS
75	95	30	66	47.8	30664	PASS
95	95	100	100	100.0	64181	PASS
96	95	5	9	6.3	4056	PASS
173	174	0.00	2	0.3	148	PASS
174	95	50	120	96.5	55504	PASS
175	174	4	9	7.9	4375	PASS
176	174	95	101	98.1	54424	PASS
177	176	5	9	6.2	3362	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AS021501.D Vial: 1  
 Acq On : 15 Feb 2021 12:54 pm Operator: RJP  
 Sample : BFB1UG Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration

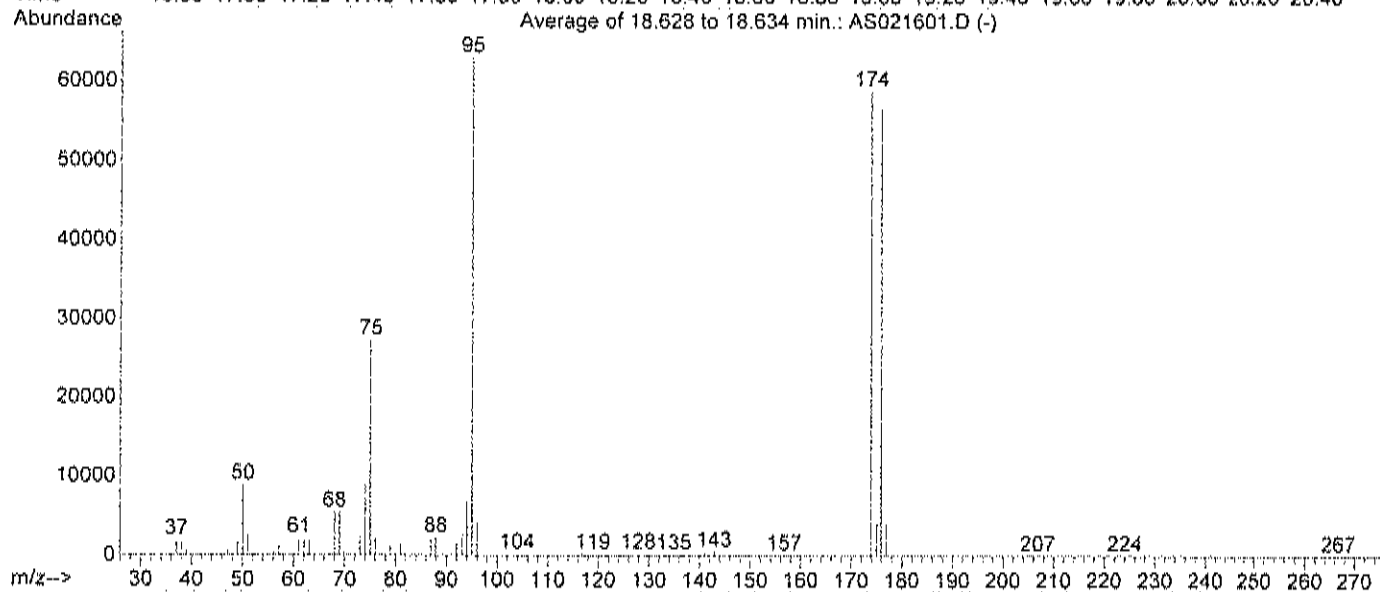
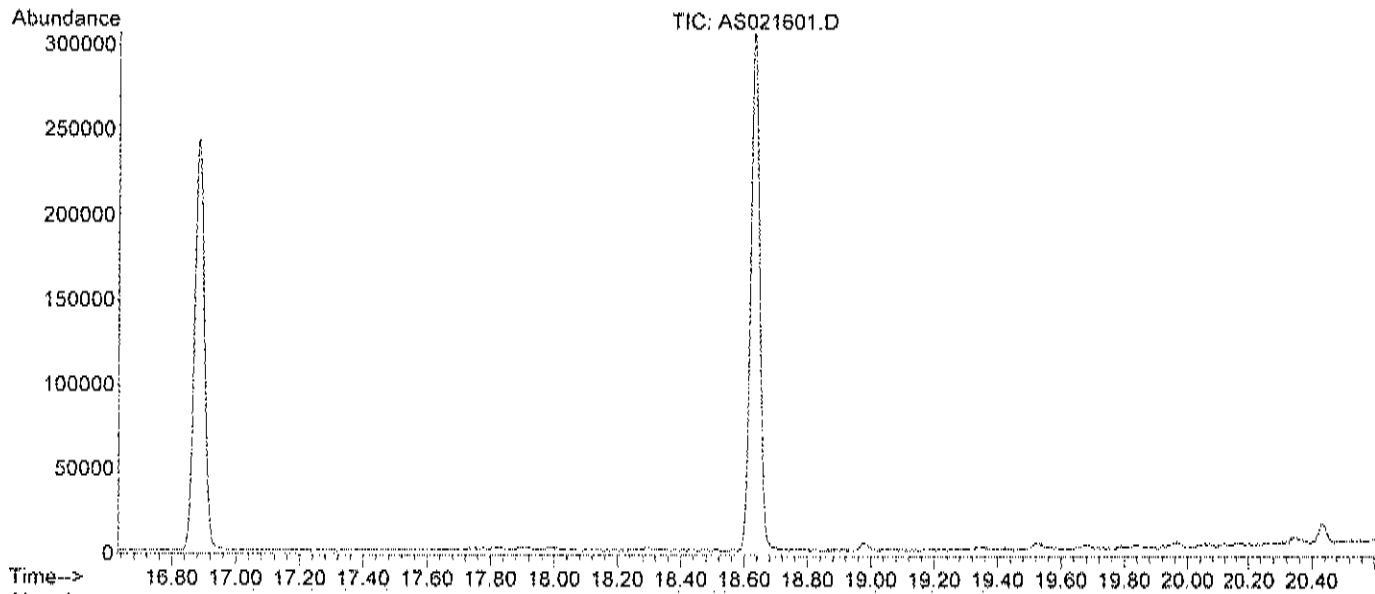


Spectrum Information: Average of 18.624 to 18.630 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.3	33301	PASS
75	95	30	66	47.2	96746	PASS
95	95	100	100	100.0	204842	PASS
96	95	5	9	6.5	13357	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.0	167872	PASS
175	174	4	9	7.6	12840	PASS
176	174	95	101	97.7	163968	PASS
177	176	5	9	6.6	10768	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AS021601.D Vial: 1  
 Acq On : 16 Feb 2021 9:10 am Operator: RJP  
 Sample : BFB1UG Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 18.628 to 18.634 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.1	8894	PASS
75	95	30	66	43.3	27325	PASS
95	95	100	100	100.0	63045	PASS
96	95	5	9	6.7	4242	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.5	58917	PASS
175	174	4	9	7.0	4152	PASS
176	174	95	101	96.3	56714	PASS
177	176	5	9	7.1	4036	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Date: 25-Feb-21

**CENTEK LABORATORIES, LLC**

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Leader Consulting Services

**Work Order:** C2102025

**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: AMBUIG-021521	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271						
Client ID: ZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-Trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

<b>Qualifiers:</b>	J	Results reported are not blank corrected	E	Estimated Value above quantitation range	H	Holding times for preparation or analysis exceeded
	S	Analyte detected below quantitation limit	ND	Not Detected at the Limit of Detection	R	RPD outside accepted recovery limits
		Spike Recovery outside accepted recovery limits	DI	Detection Limit		



**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: AMB1UG-021521	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbY	Prep Date:	RunNo: 17271						
Client ID: ZZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethane	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

**Qualifiers:**

- J Results reported are not blank corrected
- K Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: AMB1UG-021521	Samp Type: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271						
Client ID: ZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID: AMB1UG-021621	Samp Type: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17272						
Client ID: ZZZZ	Batch ID: R17272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.040	0.040									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

**Qualifiers:** J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits  
 DL Detection Limit  
 S Spike Recovery outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: <b>AMB1UG-021621</b>	SampType: <b>MBLK</b>	TestCode: <b>0.20_NYS</b>	Units: <b>ppbv</b>	Prep Date:	RunNo: <b>17272</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R17272</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>2/16/2021</b>	SeqNo: <b>195998</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.030	0.030									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.15	0.15									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

**Qualifiers:** J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: AMB1UG-021621	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17272						
Client ID: ZZZZ	Batch ID: R47272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

**Qualifiers:**

- J Results reported are not blank corrected
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection
- DL Detection Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AS021504.D  
Acq On : 15 Feb 2021 3:37 pm  
Sample : AMB1UG-021521  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 16 06:39:42 2021

Vial: 1  
Operator: RJP  
Inst : MSD #1  
Multiplx: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Sat Jan 23 21:26:14 2021  
Response via : Initial Calibration  
DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.78	128	41057	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.07	114	172903	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.89	117	163412	1.00	ppb	-0.02

System Monitoring Compounds

65) Bromofluorobenzene	18.68	95	113016	0.93	ppb	-0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	93.00%

Target Compounds

Qvalue

Quantitation Report (QT Reviewed)

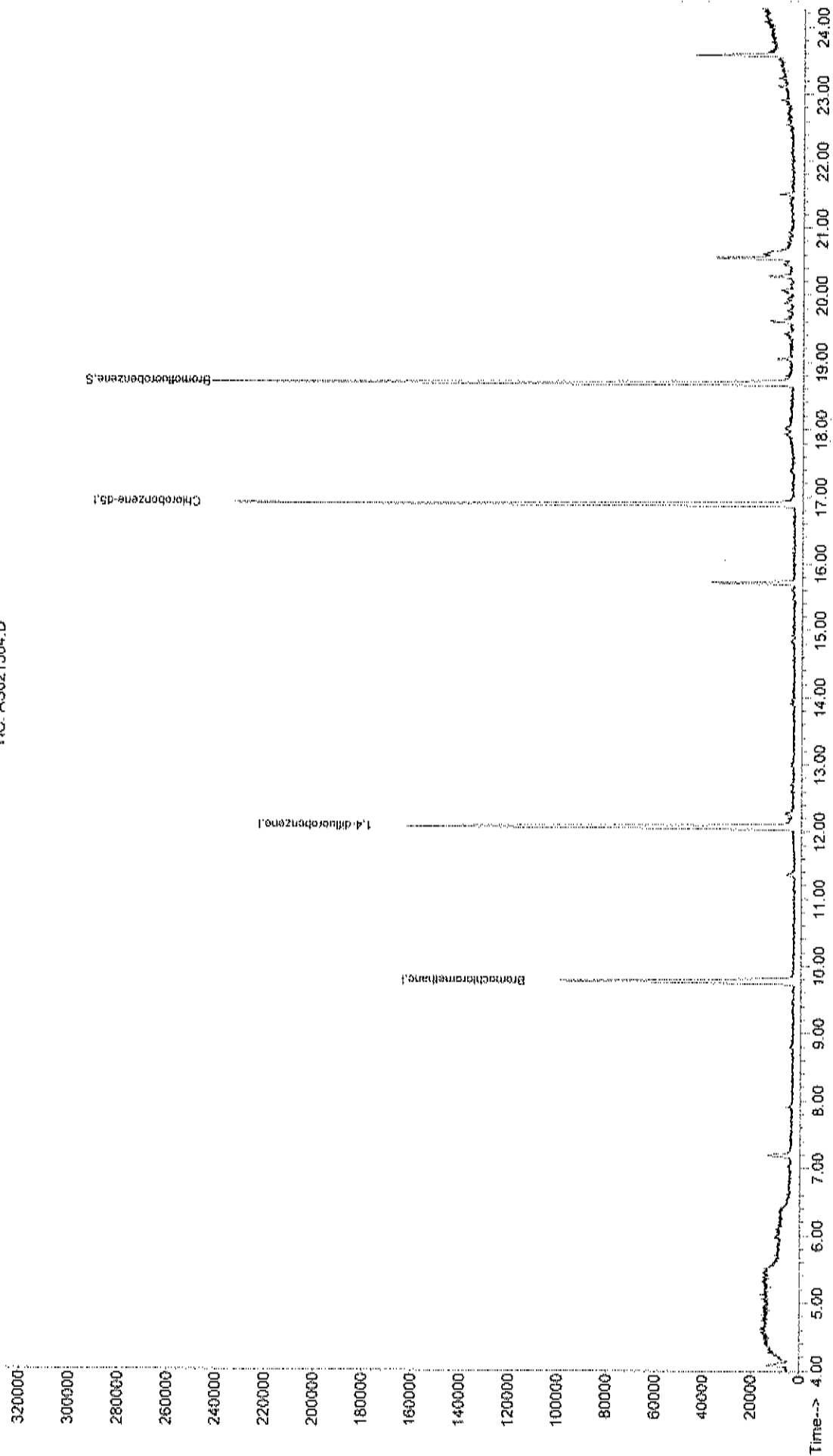
Data File : C:\HPCHEM\1\DATA\AS021504.D  
Acq On : 15 Feb 2021 3:37 pm  
Sample : AMB1UG-021521  
Misc : A123 IUG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 16 8:53 2021

Vial: 1  
Operator: RJP  
Inst : MSD #1  
Multiplier: 1.00

Quant Results File: A123\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration

Abundance  
TIC: AS021504.D



Data File : C:\HPCHEM\1\DATA\AS021604.D Vial: 4  
 Acq On : 16 Feb 2021 12:14 pm Operator: RJP  
 Sample : AMB1UG-021621 Inst : MSD #1  
 Misc : A123\_1UG Multiplr: 1.00  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 14:12:25 2021 Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	39842	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.07	114	189329	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.89	117	172320	1.00	ppb	-0.02

System Monitoring Compounds  
 65) Bromofluorobenzene 18.68 95 125061 0.97 ppb -0.01  
 Spiked Amount 1.000 Range 70 - 130 Recovery = 97.00%

Target Compounds Qvalue

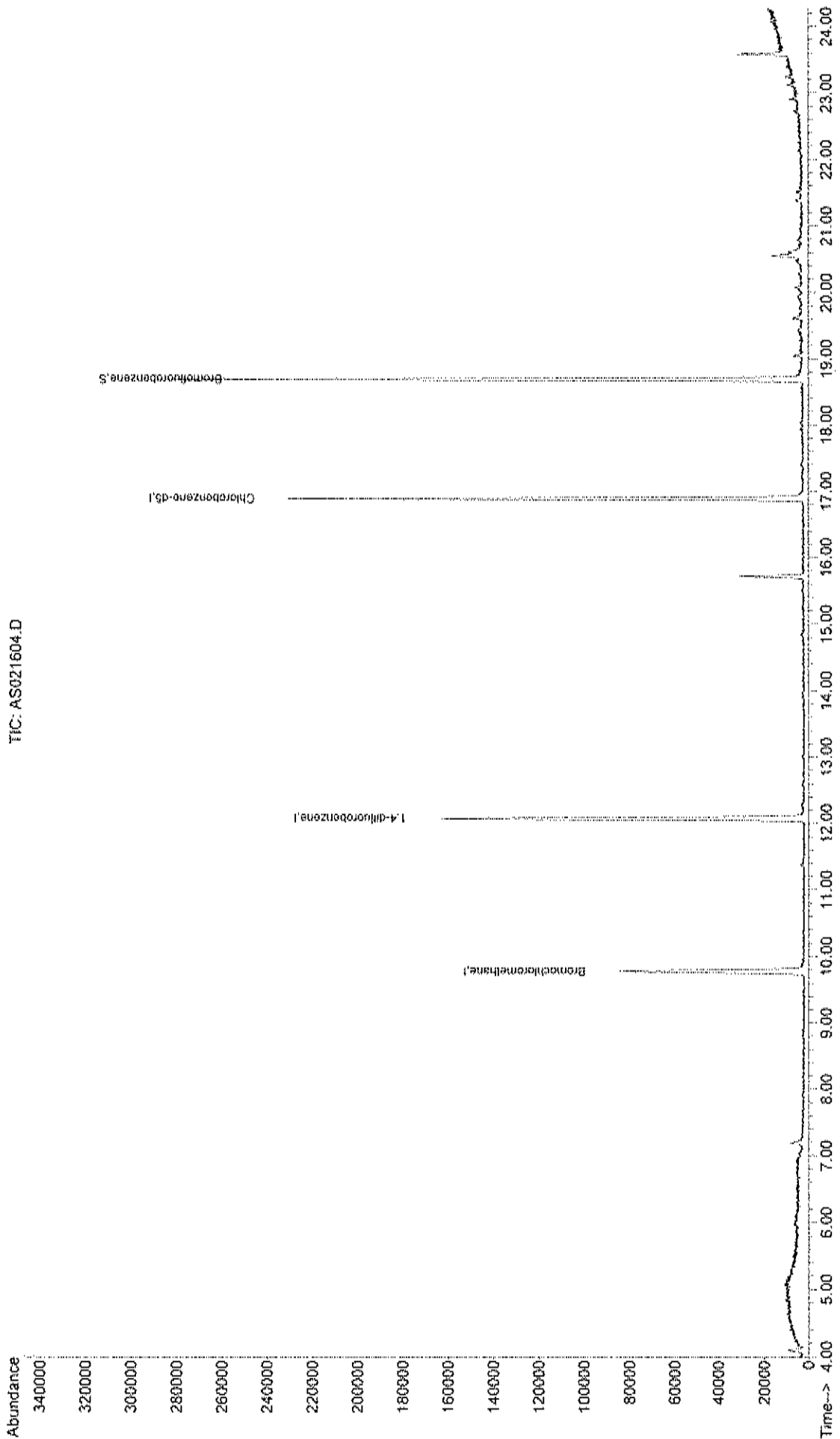
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AS021604.D  
Acq On : 16 Feb 2021 12:14 pm  
Sample : AMB1UG-021621  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 22 14:12 2021

Vial: 4  
Operator: RJP  
Inst : MSD #1  
Multiplier: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration



TIC: AS021604.D





Date: 25-Feb-21

ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services
Work Order: C2102025
Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Table with columns: Sample ID, Client ID, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Includes header information like RunNo: 17271, SeqNo: 195991, Prep Date, Analysis Date, TestCode: 0.20\_NYS, Units: ppbV, TestNo: TO-15.

Main data table listing analytes such as 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 1,3-butadiene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,4-Dioxane, 2,2,4-Trimethylpentane, 4-ethyltoluene, Acetone, Allyl chloride, Benzene, Benzyl chloride, Bromodichloromethane, Bromoform, Bromomethane with their respective results and limits.

Qualifiers:
3 Results reported are not blank corrected
S Analyte detected below quantitation limit
S Spike Recovery outside accepted recovery limits
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection
DL Detection Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCSTUG-021521	Sample Type: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271
Client ID: ZZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195991

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9800	0.15	1	0		98.0	76.9	109				
Carbon tetrachloride	1.210	0.030	1	0		121	71	120				S
Chlorobenzene	0.9800	0.15	1	0		98.0	82.6	121				
Chloroethane	1.040	0.15	1	0		104	67.1	146				
Chloroform	0.9500	0.15	1	0		95.0	82.5	125				
Chloromethane	1.190	0.15	1	0		110	71.1	154				
cis-1,2-Dichloroethene	0.9100	0.040	1	0		91.0	71.2	112				
cis-1,3-Dichloropropene	1.220	0.15	1	0		122	90.3	137				
Cyclohexane	1.060	0.15	1	0		106	87	122				
Dibromochloromethane	1.090	0.15	1	0		109	62.8	132				
Ethyl acetate	1.010	0.15	1	0		101	86.9	134				
Ethylbenzene	0.9600	0.15	1	0		96.0	76.9	123				
Freon 11	1.050	0.15	1	0		105	54.4	150				
Freon 113	0.9300	0.15	1	0		93.0	83.4	124				
Freon 114	1.030	0.15	1	0		103	82.4	144				
Freon 12	0.9800	0.15	1	0		98.0	86.3	135				
Heptane	1.070	0.15	1	0		107	86.5	137				
Hexachloro-1,3-butadiene	0.9500	0.15	1	0		95.0	78.7	120				
Hexane	0.9400	0.15	1	0		94.0	77.3	128				
Isopropyl alcohol	1.190	0.15	1	0		119	80.2	122				
m&p-Xylene	1.940	0.30	2	0		97.0	77.9	132				
Methyl Butyl Ketone	1.030	0.30	1	0		103	69.4	131				
Methyl Ethyl Ketone	0.9500	0.30	1	0		95.0	71.5	117				
Methyl Isobutyl Ketone	1.040	0.30	1	0		104	63.5	141				
Methyl tert-butyl ether	0.9400	0.15	1	0		94.0	80.8	113				
Methylene chloride	0.9500	0.15	1	0		95.0	87.8	123				
o-Xylene	0.9800	0.15	1	0		98.0	80.5	139				
Propylene	1.030	0.15	1	0		103	96.2	135				
Styrene	0.9600	0.15	1	0		96.0	82.7	138				
Tetrachloroethylene	0.9500	0.15	1	0		95.0	85.9	122				
Tetrahydrofuran	0.9100	0.15	1	0		91.0	65.5	134				

**Qualifiers:** J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCS1UG-021521	SampType: LCS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271						
Client ID: ZZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/15/2021	SeqNo: 195991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	0.9900	0.15	1	0	99.0	77.8	127				
trans-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	83.3	116				
trans-1,3-Dichloropropene	1.260	0.15	1	0	126	84.8	134				
Trichloroethene	0.9900	0.030	1	0	99.0	79.3	117				
Vinyl acetate	0.8300	0.15	1	0	83.0	70.5	101				
Vinyl Bromide	0.9400	0.15	1	0	94.0	81.4	142				
Vinyl chloride	1.030	0.040	1	0	103	70.4	138				

Sample ID: ALCS1UG-021621	SampType: LCS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17272						
Client ID: ZZZZZ	Batch ID: R17272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195999						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	1.010	0.15	1	0	101	91.3	127				
1,1,1,2-Tetrachloroethane	0.8900	0.15	1	0	89.0	78.7	121				
1,1,1,2-Trichloroethane	0.9000	0.15	1	0	90.0	88.1	136				
1,1-Dichloroethane	0.9000	0.15	1	0	90.0	86.1	123				
1,1-Dichloroethene	0.9300	0.040	1	0	93.0	70	94				
1,2,4-Trichlorobenzene	1.020	0.15	1	0	102	76.7	112				
1,2,4-Trimethylbenzene	1.060	0.15	1	0	106	74.3	123				
1,2-Dibromoethane	0.9800	0.15	1	0	98.0	80.4	125				
1,2-Dichlorobenzene	1.020	0.15	1	0	102	79.5	143				
1,2-Dichloroethane	0.8700	0.15	1	0	87.0	70.9	133				
1,2-Dichloropropane	0.8600	0.15	1	0	86.0	91	134				S
1,3,5-Trimethylbenzene	1.020	0.15	1	0	102	77.4	138				
1,3-butadiene	0.9200	0.15	1	0	92.0	71	144				
1,3-Dichlorobenzene	1.020	0.15	1	0	102	84.7	128				
1,4-Dichlorobenzene	1.020	0.15	1	0	102	77.9	131				
1,4-Dioxane	0.9100	0.30	1	0	91.0	85.1	135				
2,2,4-trimethylpentane	0.8900	0.15	1	0	89.0	86.9	126				
4-ethyltoluene	1.030	0.15	1	0	103	77.5	133				

**Qualifiers:** J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limit ND Not Detected at the limit of Detection R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits DL Detection Limit

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCS1UG-021621	SampleType: LCS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17272
Client ID: ZZZZ	Batch ID: R17272	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195999

Analyte	Result	PQL	SPK value	SPK Ref Val	Units	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.020	0.30	1	0		102	80.2	145				
Allyl chloride	0.8000	0.15	1	0		80.0	86.6	117				S
Benzene	0.8900	0.15	1	0		89.0	88.9	122				
Benzyl chloride	1.070	0.15	1	0		107	73.6	120				
Bromodichloromethane	0.8500	0.15	1	0		85.0	84.3	133				
Bromoform	0.8300	0.15	1	0		83.0	44.6	149				
Bromomethane	0.8500	0.15	1	0		85.0	78.7	144				
Carbon disulfide	0.8800	0.15	1	0		88.0	76.9	109				
Carbon tetrachloride	0.8900	0.030	1	0		89.0	71	120				
Chlorobenzene	0.9600	0.15	1	0		96.0	82.6	121				
Chloroethane	1.010	0.15	1	0		101	67.1	146				
Chloroform	0.9200	0.15	1	0		92.0	82.5	125				
Chloromethane	1.010	0.15	1	0		101	71.1	154				
cis-1,2-Dichloroethene	0.9200	0.040	1	0		92.0	71.2	112				
cis-1,3-Dichloropropene	0.9900	0.15	1	0		99.0	90.3	137				
Cyclohexane	0.9200	0.15	1	0		92.0	87	122				
Dibromochloromethane	0.9000	0.15	1	0		90.0	62.8	132				
Ethyl acetate	0.9100	0.15	1	0		91.0	86.9	134				
Ethylbenzene	0.9900	0.15	1	0		99.0	76.9	123				
Freon 11	1.030	0.15	1	0		103	54.4	150				
Freon 113	0.9000	0.15	1	0		90.0	83.4	124				
Freon 114	0.9600	0.15	1	0		96.0	82.4	144				
Freon 12	0.9100	0.15	1	0		91.0	86.3	135				
Heptane	0.9200	0.15	1	0		92.0	86.5	137				
Hexachloro-1,3-butadiene	0.9800	0.15	1	0		98.0	78.7	120				
Hexane	0.9800	0.15	1	0		98.0	77.3	128				
Isopropyl alcohol	1.100	0.15	1	0		110	80.2	122				
m&p-Xylene	1.970	0.30	2	0		98.5	77.9	132				
Methyl Butyl Ketone	0.8200	0.30	1	0		82.0	69.4	131				
Methyl Ethyl Ketone	0.9800	0.30	1	0		98.0	71.5	117				
Methyl isobutyl Ketone	0.8200	0.30	1	0		82.0	63.5	141				

**Qualifiers:**  
 J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: ALCS1UG-021621	Batch ID: R17272	Sample Type: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17272					
Client ID: ZZZZZ	Batch ID: R17272	Batch ID: R17272	TestNo: TO-15	TestNo: TO-15	Analysis Date: 2/16/2021	SeqNo: 195999					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.140	0.15	1	0	114	90.8	113				S
Methylene chloride	0.8600	0.15	1	0	86.0	87.8	123				S
o-Xylene	0.9400	0.15	1	0	94.0	90.5	139				
Propylene	0.8200	0.15	1	0	82.0	96.2	135				S
Styrene	1.010	0.15	1	0	101	82.7	138				
Tetrachloroethylene	0.9800	0.15	1	0	98.0	85.9	122				
Tetrahydrofuran	0.9000	0.15	1	0	90.0	65.5	134				
Toluene	0.9800	0.15	1	0	98.0	77.8	127				
trans-1,2-Dichloroethene	0.9200	0.15	1	0	92.0	83.3	116				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	84.8	134				
Trichloroethene	0.9100	0.030	1	0	91.0	79.3	117				
Vinyl acetate	0.8100	0.15	1	0	81.0	70.5	101				
Vinyl Bromide	1.050	0.15	1	0	105	81.4	142				
Vinyl chloride	0.8800	0.040	1	0	88.0	70.4	138				

Qualifiers: J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AS021503.D

Vial: 3

Acq On : 15 Feb 2021 2:48 pm

Operator: RJP

Sample : ALCS1UG-021521

Inst : MSD #1

Misc : A123\_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 16 06:39:41 2021

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Jan 23 21:26:14 2021

Response via : Initial Calibration

DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	41598	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.06	114	166881	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	160347	1.00	ppb	-0.02

## System Monitoring Compounds

65) Bromofluorobenzene	18.64	96	127095	1.06	ppb	-0.06
Spiked Amount	1.000	Range	70 - 130	Recovery	=	106.00%

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	33070	1.03	ppb	90
3) Freon 12	4.19	85	176145	0.98	ppb	97
4) Chloromethane	4.38	50	40675	1.10	ppb	98
5) Freon 114	4.39	85	136388	1.03	ppb	95
6) Vinyl Chloride	4.57	62	40361	1.03	ppb	98
7) Butane	4.68	43	40262	1.10	ppb	97
8) 1,3-butadiene	4.68	39	28138	1.01	ppb	99
9) Bromomethane	5.02	94	48794	0.97	ppb	98
10) Chloroethane	5.19	64	18628	1.04	ppb	# 85
11) Ethanol	5.29	45	8435	1.23	ppb	# 71
12) Acrolein	5.87	56	8060	0.90	ppb	91
13) Vinyl Bromide	5.53	106	47223	0.94	ppb	98
14) Freon 11	5.81	101	192779	1.05	ppb	99
15) Acetone	5.97	58	29746	1.16	ppb	# 71
16) Pentane	6.08	42	43825	1.08	ppb	91
17) Isopropyl alcohol	6.08	45	60878	1.19	ppb	99
18) 1,1-dichloroethene	6.57	96	49597	0.86	ppb	# 86
19) Freon 113	6.77	101	124841	0.93	ppb	98
20) t-Butyl alcohol	6.80	59	84287	1.05	ppb	# 84
21) Methylene chloride	7.03	84	50401	0.95	ppb	95
22) Allyl chloride	7.02	41	49418	0.97	ppb	100
23) Carbon disulfide	7.19	76	163055	0.98	ppb	98
24) trans-1,2-dichloroethene	7.96	61	73792	0.95	ppb	92
25) methyl tert-butyl ether	7.98	73	122002	0.94	ppb	82
26) 1,1-dichloroethane	8.39	63	97251	0.98	ppb	97
27) Vinyl acetate	8.38	43	25434	0.83	ppb	96
28) Methyl Ethyl Ketone	8.88	72	23861	0.95	ppb	# 100
29) cis-1,2-dichloroethene	9.33	61	68739	0.91	ppb	93
30) Hexane	8.93	57	70577	0.94	ppb	88
31) Ethyl acetate	9.48	43	141863	1.01	ppb	98
32) Chloroform	9.93	83	130978	0.95	ppb	100
33) Tetrahydrofuran	10.10	42	41312	0.91	ppb	91
34) 1,2-dichloroethane	11.05	62	83602	0.93	ppb	100
36) 1,1,1-trichloroethane	10.76	97	131978	1.27	ppb	100
37) Cyclohexane	11.47	56	66123	1.06	ppb	94
38) Carbon tetrachloride	11.41	117	121500	1.21	ppb	98
39) Benzene	11.37	78	157571	1.04	ppb	96
40) Methyl methacrylate	12.96	41	57230	1.10	ppb	91
41) 1,4-dioxane	12.97	88	36251	1.00	ppb	96
42) 2,2,4-trimethylpentane	12.24	57	210945	1.05	ppb	90
43) Heptane	12.59	43	73559	1.07	ppb	94
44) Trichloroethene	12.72	130	82179	0.99	ppb	99
45) 1,2-dichloropropane	12.82	63	61628	1.12	ppb	98

(#)=qualifier out of range (m)=manual integration

AS021503.D A123\_1UG.M

Thu Feb 25 13:18:54 2021

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AS021503.D  
 Acq On : 15 Feb 2021 2:48 pm  
 Sample : ALCS1UG-021521  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:41 2021

Vial: 3  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.17	83	133150	1.13	ppb	100
47) cis-1,3-dichloropropene	13.98	75	91903	1.22	ppb	97
48) trans-1,3-dichloropropene	14.76	75	66351m	1.26	ppb	
49) 1,1,2-trichloroethane	15.09	97	76317	1.05	ppb	98
51) Toluene	14.84	92	107750	0.99	ppb	100
52) Methyl Isobutyl Ketone	13.89	43	104213	1.04	ppb	91
53) Dibromochloromethane	15.82	129	126441	1.09	ppb	99
54) Methyl Butyl Ketone	15.27	43	100303	1.03	ppb	87
55) 1,2-dibromoethane	16.08	107	118623	1.06	ppb	99
56) Tetrachloroethylene	15.91	164	84437	0.95	ppb	96
57) Chlorobenzene	16.94	112	166819	0.98	ppb	98
58) Ethylbenzene	17.21	91	239606	0.96	ppb	99
59) m&p-xylene	17.43	91	396777	1.94	ppb	97
60) Nonane	17.83	43	111430	1.03	ppb	89
61) Styrene	17.89	104	149865	0.96	ppb	93
62) Bromoform	18.01	173	103095	1.00	ppb	100
63) o-xylene	17.92	91	227023	0.98	ppb	96
64) Cumene	18.52	105	263843	0.91	ppb	97
66) 1,1,2,2-tetrachloroethane	18.39	83	174504	1.02	ppb	98
67) Propylbenzene	19.11	120	72872	0.90	ppb	71
68) 2-Chlorotoluene	19.15	126	77814	0.97	ppb	# 92
69) 4-ethyltoluene	19.29	105	269541m	0.92	ppb	
70) 1,3,5-trimethylbenzene	19.36	105	242695	0.94	ppb	78
71) 1,2,4-trimethylbenzene	19.84	105	226184	0.92	ppb	98
72) 1,3-dichlorobenzene	20.17	146	174427m	0.93	ppb	
73) benzyl chloride	20.25	91	90554	1.37	ppb	99
74) 1,4-dichlorobenzene	20.32	146	173434	0.94	ppb	99
75) 1,2,3-trimethylbenzene	20.36	105	232979	0.94	ppb	98
76) 1,2-dichlorobenzene	20.68	146	169602	0.96	ppb	99
77) 1,2,4-trichlorobenzene	22.85	180	104520	0.93	ppb	99
78) Naphthalene	23.06	128	222168	0.90	ppb	98
79) Hexachloro-1,3-butadiene	23.19	225	146713	0.95	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS021503.D A123\_1UG.M Thu Feb 25 13:18:55 2021 MSD1

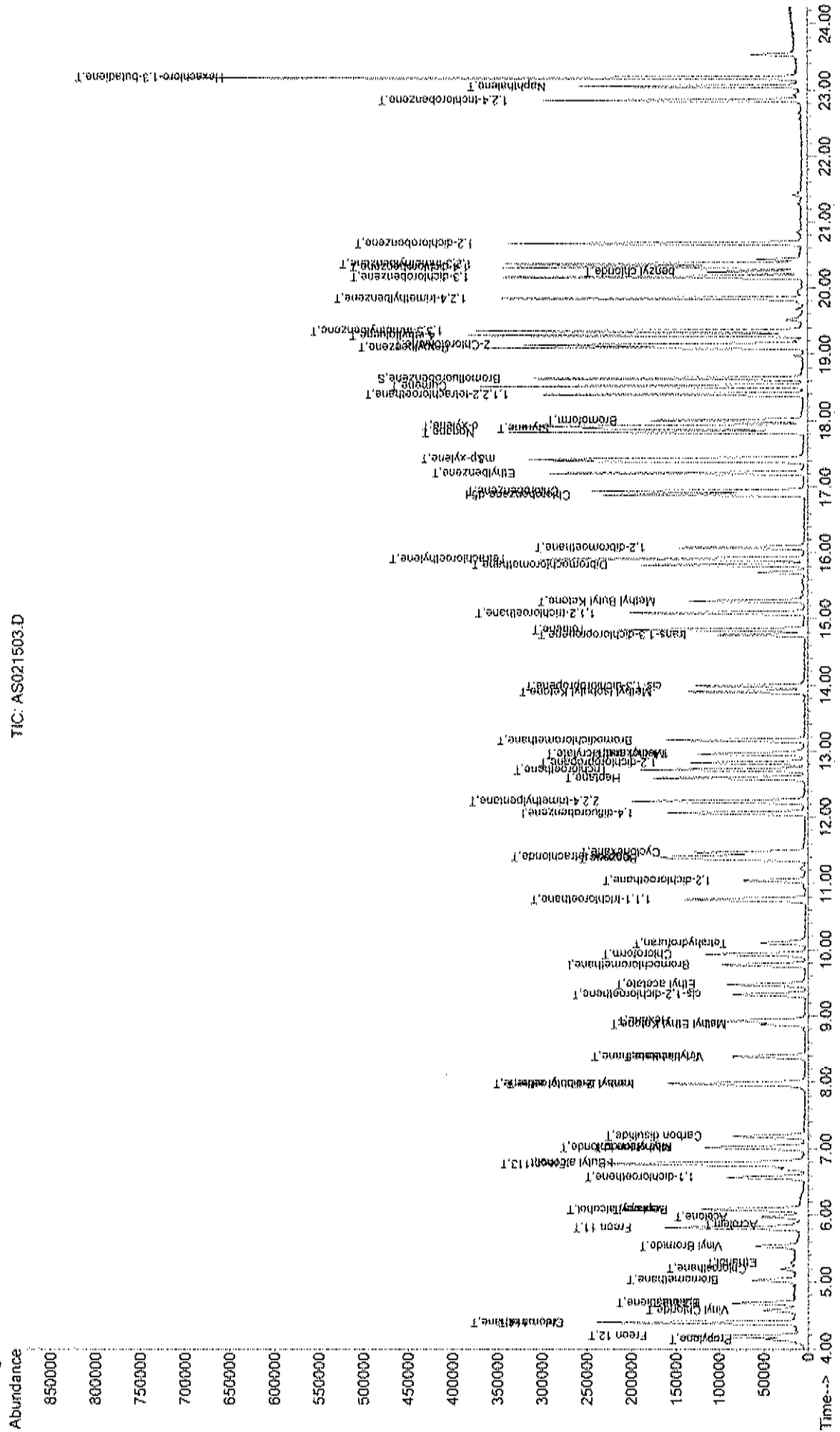
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AS021503.D  
 Acq On : 15 Feb 2021 2:48 pm  
 Sample : ALCS1UG-021521  
 Misc : AL23 UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 8:53 2021

Quant Results File: A123\_LUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_LUG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 13:17:07 2021  
 Response via : Initial Calibration

TIC: AS021503.D





Data File : C:\HPCHEM\1\DATA\AS021603.D  
 Acq On : 16 Feb 2021 11:34 am  
 Sample : ALCS1UG-021621  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 14:12:24 2021

Vial: 3  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.77	128	39634	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.07	114	192884	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.89	117	179956	1.00	ppb	-0.02

System Monitoring Compounds						
65) Bromofluorobenzene	18.68	95	137058	1.02	ppb	-0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.13	41	25088	0.82	ppb	96
3) Freon 12	4.19	85	156126	0.91	ppb	99
4) Chloromethane	4.39	50	35672	1.01	ppb	96
5) Freon 114	4.39	85	120577	0.96	ppb	99
6) Vinyl Chloride	4.58	62	32996	0.88	ppb	96
7) Butane	4.68	43	32968	0.95	ppb	92
8) 1,3-butadiene	4.69	39	24291	0.92	ppb	94
9) Bromomethane	5.02	94	40432	0.85	ppb	99
10) Chloroethane	5.20	64	17350	1.01	ppb	91
11) Ethanol	5.29	45	8086	1.24	ppb	77
12) Acrolein	5.88	56	7527	0.88	ppb	# 74
13) Vinyl Bromide	5.54	106	50270	1.05	ppb	99
14) Freon 11	5.82	101	180565	1.03	ppb	99
15) Acetone	5.97	58	24906	1.02	ppb	# 1
16) Pentane	6.09	42	35826	0.92	ppb	98
17) Isopropyl alcohol	6.08	45	53720	1.10	ppb	99
18) 1,1-dichloroethene	6.58	96	50947	0.93	ppb	96
19) Freon 113	6.77	101	114885	0.90	ppb	95
20) t-Butyl alcohol	6.79	59	85441	1.12	ppb	95
21) Methylene chloride	7.03	84	43371	0.86	ppb	92
22) Allyl chloride	7.01	41	39098	0.80	ppb	87
23) Carbon disulfide	7.19	76	140701	0.88	ppb	97
24) trans-1,2-dichloroethene	7.97	61	68171	0.92	ppb	98
25) methyl tert-butyl ether	7.98	73	140193	1.14	ppb	100
26) 1,1-dichloroethane	8.39	63	85878	0.90	ppb	99
27) Vinyl acetate	8.37	43	23612	0.81	ppb	98
28) Methyl Ethyl Ketone	8.88	72	23468	0.98	ppb	# 100
29) cis-1,2-dichloroethene	9.33	61	66646	0.92	ppb	97
30) Hexane	8.93	57	70025	0.98	ppb	98
31) Ethyl acetate	9.47	43	120805	0.91	ppb	100
32) Chloroform	9.94	83	120994	0.92	ppb	99
33) Tetrahydrofuran	10.11	42	38610	0.90	ppb	97
34) 1,2-dichloroethane	11.05	62	74268	0.87	ppb	99
36) 1,1,1-trichloroethane	10.76	97	121506	1.01	ppb	100
37) Cyclohexane	11.48	56	66207	0.92	ppb	93
38) Carbon tetrachloride	11.41	117	103447	0.89	ppb	100
39) Benzene	11.38	78	155750	0.89	ppb	99
40) Methyl methacrylate	12.95	41	52779	0.88	ppb	98
41) 1,4-dioxane	12.97	88	38064	0.91	ppb	93
42) 2,2,4-trimethylpentane	12.25	57	206889	0.89	ppb	97
43) Heptane	12.59	43	73436	0.92	ppb	97
44) Trichloroethene	12.72	130	87803	0.91	ppb	97
45) 1,2-dichloropropane	12.82	63	54761	0.86	ppb	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AS021603.D

Vial: 3

Acq On : 16 Feb 2021 11:34 am

Operator: RJP

Sample : ALCS1UG-021621

Inst : MSD #1

Misc : A123 1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 22 14:12:24 2021

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Jan 23 21:26:14 2021

Response via : Initial Calibration

DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.17	83	115208	0.85	ppb	100
47) cis-1,3-dichloropropene	13.99	75	86598	0.99	ppb	98
48) trans-1,3-dichloropropene	14.76	75	68765	1.13	ppb	92
49) 1,1,2-trichloroethane	15.09	97	75583	0.90	ppb	100
51) Toluene	14.84	92	119195	0.98	ppb	99
52) Methyl Isobutyl Ketone	13.90	43	92877	0.82	ppb	99
53) Dibromochloromethane	15.82	129	117493	0.90	ppb	98
54) Methyl Butyl Ketone	15.27	43	90240	0.82	ppb	95
55) 1,2-dibromoethane	16.08	107	122693	0.98	ppb	99
56) Tetrachloroethylene	15.91	164	97834	0.98	ppb	97
57) Chlorobenzene	16.94	112	184890	0.96	ppb	97
58) Ethylbenzene	17.21	91	276193	0.99	ppb	100
59) m&p-xylene	17.43	91	454019	1.97	ppb	99
60) Nonane	17.84	43	111379	0.92	ppb	95
61) Styrene	17.90	104	178125	1.01	ppb	98
62) Bromoform	18.03	173	96758	0.83	ppb	100
63) o-xylene	17.94	91	245129	0.94	ppb	100
64) Cumene	18.56	105	338839	1.04	ppb	99
66) 1,1,2,2-tetrachloroethane	18.43	83	170471	0.89	ppb	100
67) Propylbenzene	19.18	120	96949	1.07	ppb	95
68) 2-Chlorotoluene	19.22	126	93529	1.04	ppb	# 90
69) 4-ethyltoluene	19.36	105	339749	1.03	ppb	100
70) 1,3,5-trimethylbenzene	19.43	105	296727	1.02	ppb	76
71) 1,2,4-trimethylbenzene	19.94	105	291988	1.06	ppb	100
72) 1,3-dichlorobenzene	20.27	146	213688	1.02	ppb	99
73) benzyl chloride	20.36	91	79580	1.07	ppb	99
74) 1,4-dichlorobenzene	20.43	146	212308	1.02	ppb	98
75) 1,2,3-trimethylbenzene	20.48	105	284724	1.02	ppb	100
76) 1,2-dichlorobenzene	20.79	146	200881	1.02	ppb	100
77) 1,2,4-trichlorobenzene	22.91	180	128974	1.02	ppb	99
78) Naphthalene	23.11	128	268902	0.97	ppb	99
79) Hexachloro-1,3-butadiene	23.23	225	170413	0.98	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

AS021603.D A123\_1UG.M

Thu Feb 25 13:19:13 2021

MSD1

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Date: 25-Feb-21

**CEN TEK LABORATORIES, LLC**

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: Leader Consulting Services

Work Order: C2102025

Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: ALCS1UGD-021521	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271						
Client ID: ZZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195992						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8950	0.15	1	0	89.0	91.3	127	1.27	35.2	0	S
1,1,2,2-Tetrachloroethane	0.8160	0.15	1	0	81.0	78.7	121	1.02	23.0	0	
1,1,2-Trichloroethane	0.8200	0.15	1	0	82.0	88.1	136	1.05	24.6	0	S
1,1-Dichloroethane	0.8700	0.15	1	0	87.0	86.1	123	0.98	11.9	0	
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	70	94	0.86	8.48	0	
1,2,4-Trichlorobenzene	0.9500	0.15	1	0	95.0	76.7	112	0.93	2.13	0	
1,2,4-Trimethylbenzene	0.9800	0.15	1	0	98.0	74.3	123	0.92	6.32	0	
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	80.4	125	1.06	15.2	0	
1,2-Dichlorobenzene	0.9400	0.15	1	0	94.0	79.5	143	0.96	2.11	0	
1,2-Dichloroethane	0.8300	0.15	1	0	83.0	70.9	133	0.93	11.4	0	
1,2-Dichloropropane	0.8100	0.15	1	0	81.0	91	134	1.12	32.1	0	S
1,3,5-Trimethylbenzene	0.9600	0.15	1	0	96.0	77.4	138	0.94	2.11	0	
1,3-butadiene	0.7700	0.15	1	0	77.0	71	144	1.01	27.0	0	
1,3-Dichlorobenzene	0.9600	0.15	1	0	96.0	84.7	128	0.93	3.17	0	
1,4-Dichlorobenzene	0.9600	0.15	1	0	96.0	77.9	131	0.94	2.11	0	
1,4-Dioxane	0.8400	0.30	1	0	84.0	85.1	135	1	17.4	0	S
2,2,4-trimethylpentane	0.8300	0.15	1	0	83.0	86.9	126	1.05	23.4	0	S
4-ethyltoluene	0.9700	0.15	1	0	97.0	77.5	133	0.92	5.29	0	
Acetone	0.8100	0.30	1	0	81.0	80.2	145	1.16	35.5	0	
Allyl chloride	0.8400	0.15	1	0	84.0	86.6	117	0.97	14.4	0	S
Benzene	0.8300	0.15	1	0	83.0	88.9	122	1.04	22.5	0	S
Benzyl chloride	0.8900	0.15	1	0	89.0	73.6	120	1.37	42.5	0	
Bromodichloromethane	0.7300	0.15	1	0	73.0	84.3	133	1.13	43.0	0	S
Bromoform	0.7100	0.15	1	0	71.0	44.6	149	1	33.9	0	
Bromomethane	0.6300	0.15	1	0	63.0	78.7	144	0.97	42.5	0	S

Qualifiers: J Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded  
 S Spike Recovery outside accepted recovery limits ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits  
 DL Detection Limit

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCS1UGD-021521	Batch ID: R17271	Sample Type: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271					
Client ID: ZZZZZ	Batch ID: R17271	Batch ID: R17271	TestNo: TO-15	Analysis Date: 2/16/2021	SeqNo: 195992						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8200	0.15	1	0	82.0	76.9	109	0.98	17.8	0	
Carbon tetrachloride	0.7400	0.030	1	0	74.0	71	120	1.21	48.2	0	
Chlorobenzene	0.9100	0.15	1	0	91.0	82.6	121	0.98	7.41	0	
Chloroethane	0.6800	0.15	1	0	68.0	67.1	146	1.04	41.9	0	
Chloroform	0.8600	0.15	1	0	86.0	82.5	125	0.95	9.94	0	
Chloromethane	0.7900	0.15	1	0	79.0	71.1	164	1.1	32.8	0	
cis-1,2-Dichloroethene	0.8700	0.040	1	0	87.0	71.2	112	0.91	4.49	0	
cis-1,3-Dichloropropene	0.9000	0.15	1	0	90.0	90.3	137	1.22	30.2	0	S
Cyclohexane	0.8500	0.15	1	0	85.0	87	122	1.06	22.0	0	S
Dibromochloromethane	0.7800	0.15	1	0	78.0	62.8	132	1.09	33.2	0	
Ethyl acetate	0.8800	0.15	1	0	88.0	86.9	134	1.01	13.8	0	
Ethylbenzene	0.9300	0.15	1	0	93.0	76.9	123	0.96	3.17	0	
Freon 11	0.8400	0.15	1	0	84.0	54.4	150	1.05	22.2	0	
Freon 113	0.8900	0.15	1	0	89.0	83.4	124	0.93	4.40	0	
Freon 114	0.7500	0.15	1	0	75.0	82.4	144	1.03	31.5	0	S
Freon 12	0.7900	0.15	1	0	79.0	86.3	135	0.98	21.5	0	S
Heptane	0.8200	0.15	1	0	82.0	86.5	137	1.07	26.5	0	S
Hexachloro-1,3-butadiene	0.9400	0.15	1	0	94.0	78.7	120	0.95	1.06	0	
Hexane	0.9700	0.15	1	0	97.0	77.3	128	0.94	3.14	0	
Isopropyl alcohol	0.9100	0.15	1	0	91.0	80.2	122	1.19	26.7	0	
m&p-Xylene	1.850	0.30	2	0	92.5	77.9	132	1.94	4.75	0	
Methyl Butyl Ketone	0.7700	0.30	1	0	77.0	69.4	131	1.03	28.9	0	
Methyl Ethyl Ketone	0.9500	0.30	1	0	95.0	71.5	117	0.95	0	0	
Methyl Isobutyl Ketone	0.7800	0.30	1	0	78.0	63.5	141	1.04	28.6	0	
Methyl tert-butyl ether	1.080	0.15	1	0	108	80.8	113	0.94	13.9	0	S
Methylen chloride	0.8700	0.15	1	0	87.0	87.8	123	0.95	8.79	0	
o-Xylene	0.8900	0.15	1	0	89.0	80.5	139	0.98	9.63	0	
Propylene	0.7700	0.15	1	0	77.0	96.2	135	1.03	28.9	0	S
Styrene	0.9400	0.15	1	0	94.0	82.7	138	0.96	2.11	0	
Tetrachloroethylene	0.9300	0.15	1	0	93.0	85.9	122	0.95	2.13	0	
Tetrahydrofuran	0.8700	0.15	1	0	87.0	65.5	134	0.91	4.49	0	

**Qualifiers:** J Results reported are net blank corrected  
 S Analyte detected below quantitation limit  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: ALCSTUGD-021521	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271						
Client ID: ZZZZZ	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9400	0.15	1	0	94.0	77.8	127	0.99	5.18	0	
trans-1,2-Dichloroethene	0.8700	0.15	1	0	87.0	83.3	116	0.95	8.79	0	
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	84.8	134	1.26	23.0	0	
Trichloroethene	0.8600	0.030	1	0	86.0	79.3	117	0.99	14.1	0	
Vinyl acetate	0.7800	0.15	1	0	78.0	70.5	101	0.83	6.21	0	
Vinyl Bromide	0.8500	0.15	1	0	85.0	81.4	142	0.94	10.1	0	
Vinyl chloride	0.7100	0.040	1	0	71.0	70.4	138	1.03	36.8	0	

**Qualifiers:**

- Results reported are not blank corrected
- E Estimated Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit
- ND Not Detected at the Limit of Detection
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- DL Detection Limit

Data File : C:\HPCHEM\1\DATA\AS021519.D

Vial: 15

Acq On : 16 Feb 2021 2:42 am

Operator: RJP

Sample : ALCS1UGD-021521

Inst : MSD #1

Misc : A123\_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 16 06:39:57 2021

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Jan 23 21:26:14 2021

Response via : Initial Calibration

DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.76	128	43939m	1.00	ppb	-0.04
35) 1,4-difluorobenzene	12.06	114	222395	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	204668	1.00	ppb	-0.02

## System Monitoring Compounds

65) Bromofluorobenzene	18.68	95	154746	1.01	ppb	-0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

## Target Compounds

						Qvalue
2) Propylene	4.13	41	26301	0.77	ppb	97
3) Freon 12	4.19	85	150259	0.79	ppb	98
4) Chloromethane	4.38	50	31093	0.79	ppb	95
5) Freon 114	4.39	85	104976	0.75	ppb	99
6) Vinyl Chloride	4.58	62	29509m	0.71	ppb	
7) Butane	4.68	43	29217	0.76	ppb	98
8) 1,3-butadiene	4.68	39	22612	0.77	ppb	90
9) Bromomethane	5.03	94	33437	0.63	ppb	96
10) Chloroethane	5.20	64	12834	0.68	ppb	# 88
11) Ethanol	5.29	45	7135	0.99	ppb	75
12) Acrolein	5.86	56	6515	0.69	ppb	80
13) Vinyl Bromide	5.53	106	45070	0.85	ppb	100
14) Freon 11	5.81	101	163351	0.84	ppb	98
15) Acetone	5.98	58	21790	0.81	ppb	# 64
16) Pentane	6.08	42	31699	0.74	ppb	98
17) Isopropyl alcohol	6.08	45	49337	0.91	ppb	98
18) 1,1-dichloroethene	6.57	96	47992	0.79	ppb	97
19) Freon 113	6.77	101	126030	0.89	ppb	95
20) t-Butyl alcohol	6.80	59	86795	1.02	ppb	# 92
21) Methylene chloride	7.03	84	48765	0.87	ppb	94
22) Allyl chloride	7.01	41	45087	0.84	ppb	92
23) Carbon disulfide	7.19	76	145314	0.82	ppb	97
24) trans-1,2-dichloroethene	7.96	61	71300	0.87	ppb	98
25) methyl tert-butyl ether	7.98	73	148145	1.08	ppb	98
26) 1,1-dichloroethane	8.39	63	91676	0.87	ppb	97
27) Vinyl acetate	8.37	43	25312	0.78	ppb	96
28) Methyl Ethyl Ketone	8.87	72	25132	0.95	ppb	# 100
29) cis-1,2-dichloroethene	9.32	61	69717	0.87	ppb	95
30) Hexane	8.92	57	76354	0.97	ppb	97
31) Ethyl acetate	9.46	43	129937	0.88	ppb	100
32) Chloroform	9.93	83	124147	0.86	ppb	98
33) Tetrahydrofuran	10.10	42	41568	0.87	ppb	95
34) 1,2-dichloroethane	11.04	62	78072	0.83	ppb	99
36) 1,1,1-trichloroethane	10.76	97	123042	0.89	ppb	100
37) Cyclohexane	11.46	56	71081	0.85	ppb	96
38) Carbon tetrachloride	11.41	117	99009	0.74	ppb	98
39) Benzene	11.37	78	167626	0.83	ppb	98
40) Methyl methacrylate	12.94	41	54774	0.79	ppb	97
41) 1,4-dioxane	12.96	88	40721	0.84	ppb	91
42) 2,2,4-trimethylpentane	12.23	57	223818	0.83	ppb	98
43) Heptane	12.59	43	75333	0.82	ppb	96
44) Trichloroethene	12.71	130	95586	0.86	ppb	95
45) 1,2-dichloropropane	12.82	63	59601	0.81	ppb	98

(#)=qualifier out of range (m)=manual integration

AS021519.D A123\_1UG.M

Thu Feb 25 13:19:09 2021

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AS021519.D  
 Acq On : 16 Feb 2021 2:42 am  
 Sample : ALCS1UGD-021521  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:57 2021

Vial: 15  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.16	83	114111	0.73	ppb	98
47) cis-1,3-dichloropropene	13.98	75	90128	0.90	ppb	98
48) trans-1,3-dichloropropene	14.75	75	70228	1.00	ppb	90
49) 1,1,2-trichloroethane	15.08	97	79497	0.82	ppb	98
51) Toluene	14.83	92	130178	0.94	ppb	98
52) Methyl Isobutyl Ketone	13.89	43	100254	0.78	ppb	99
53) Dibromochloromethane	15.81	129	115287	0.78	ppb	99
54) Methyl Butyl Ketone	15.27	43	96517	0.77	ppb	96
55) 1,2-dibromoethane	16.08	107	130481	0.91	ppb	98
56) Tetrachloroethylene	15.91	164	106052	0.93	ppb	98
57) Chlorobenzene	16.93	112	197471	0.91	ppb	97
58) Ethylbenzene	17.21	91	297991	0.93	ppb	100
59) m&p-xylene	17.43	91	482924	1.85	ppb	99
60) Nonane	17.84	43	115464	0.83	ppb	97
61) Styrene	17.90	104	187683	0.94	ppb	98
62) Bromoform	18.03	173	93714	0.71	ppb	99
63) o-xylene	17.94	91	263219	0.89	ppb	99
64) Cumene	18.56	105	363848	0.98	ppb	99
66) 1,1,2,2-tetrachloroethane	18.43	83	176517	0.81	ppb	99
67) Propylbenzene	19.17	120	103640	1.01	ppb	98
68) 2-Chlorotoluene	19.22	126	99599	0.97	ppb	# 88
69) 4-ethyltoluene	19.36	105	362767	0.97	ppb	100
70) 1,3,5-trimethylbenzene	19.43	105	316886	0.96	ppb	75
71) 1,2,4-trimethylbenzene	19.94	105	308739	0.98	ppb	99
72) 1,3-dichlorobenzene	20.28	146	228048	0.96	ppb	99
73) benzyl chloride	20.36	91	75061	0.89	ppb	99
74) 1,4-dichlorobenzene	20.43	146	226078	0.96	ppb	98
75) 1,2,3-trimethylbenzene	20.48	105	298881	0.94	ppb	100
76) 1,2-dichlorobenzene	20.79	146	211616	0.94	ppb	99
77) 1,2,4-trichlorobenzene	22.91	180	136482	0.95	ppb	99
78) Naphthalene	23.11	128	290767	0.92	ppb	98
79) Hexachloro-1,3-butadiene	23.24	225	185720	0.94	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS021519.D A123\_1UG.M Thu Feb 25 13:19:09 2021 MSD1



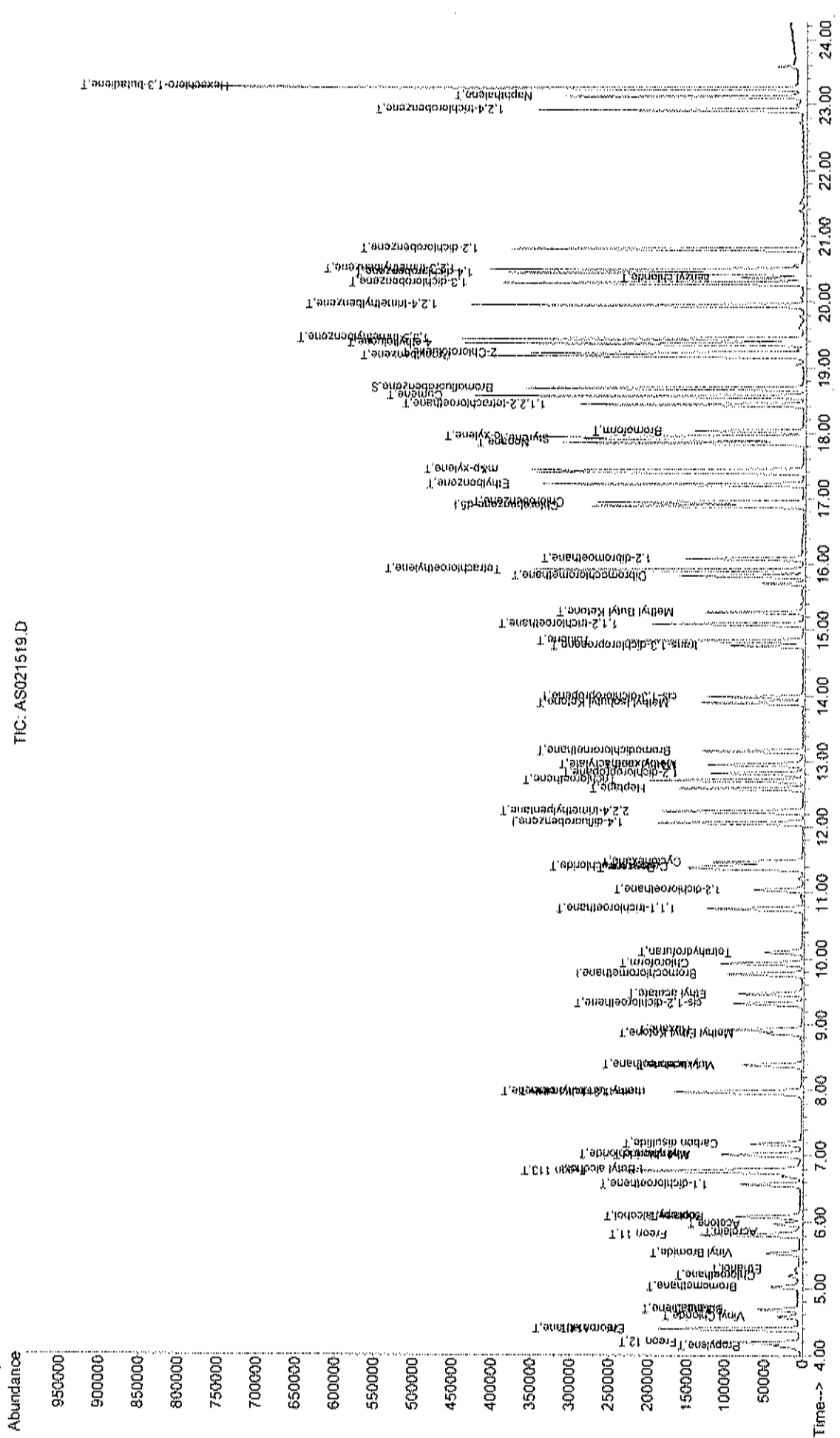
Data File : C:\HPCHEM\1\DATA\AS021519.D  
Acq On : 16 Feb 2021 2:42 am  
Sample : ALCS1UGD-021521  
Misc : A123\_1UG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 16 9:12 2021

Vial: 15  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration

TIC: AS021519.D





# CENTEK LABORATORIES, LLC

Date: 01-Mar-21

## ANALYTICAL QC SUMMARY REPORT

CLIENT: Leader Consulting Services

Work Order: C2102025

Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195996

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8900	0.15	1	0	89.0	68.1	117				
1,1,2,2-Tetrachloroethane	0.8400	0.15	1	0	84.0	82.3	101				
1,1,2-Trichloroethane	0.8100	0.15	1	0	81.0	61	128				
1,1-Dichloroethane	0.8200	0.15	1	0	82.0	76.5	118				
1,1-Dichloroethene	0.8800	0.040	1	0	88.0	45.8	128				
1,2,4-Trichlorobenzene	1.190	0.15	1	0	119	70	130				
1,2,4-Trimethylbenzene	1.080	0.15	1	0	108	81.5	155				
1,2-Dibromoethane	0.8900	0.15	1	0	89.0	78.7	107				
1,2-Dichlorobenzene	1.000	0.15	1	0	100	57.2	175				
1,2-Dichloroethane	0.8400	0.15	1	0	84.0	65.1	130				
1,2-Dichloropropane	0.7900	0.15	1	0	79.0	69.9	116				
1,3,5-Trimethylbenzene	0.9900	0.15	1	0	99.0	67.6	139				
1,3-butadiene	1.060	0.15	1	0	106	70	130				
1,3-Dichlorobenzene	0.9700	0.15	1	0	97.0	89.1	122				
1,4-Dichlorobenzene	0.9700	0.15	1	0	97.0	86.8	114				
1,4-Dioxane	0.8400	0.30	1	0	84.0	75.1	114				
2,2,4-trimethylpentane	0.9100	0.15	1	0	91.0	84.2	113				
4-ethyltoluene	1.020	0.15	1	0	102	70	130				S
Acetone	4.170	0.30	1	4.14	3.00	70	130				
Allyl chloride	0.8100	0.15	1	0	81.0	70	130				
Benzene	1.080	0.15	1	0.26	82.0	72.7	133				
Benzyl chloride	0.9200	0.15	1	0	92.0	72.5	129				
Bromodichloromethane	0.7300	0.15	1	0	73.0	69.4	112				
Bromoform	0.6900	0.15	1	0	69.0	42.5	110				
Bromomethane	0.7800	0.15	1	0	78.0	68.6	121				

Qualifiers:	J	S	E	H
Results reported are not blank corrected				
Analyte detected below quantitation limit				
Spike Recovery outside accepted recovery limits				
Estimated Value above quantitation range				
Not Detected at the Limit of Detection				
Detection Limit				
Holding times for preparation or analysis exceeded				
RPD outside accepted recovery limits				

CLIENT: Leader Consulting Services  
 Work Order: C2102025  
 Project: Vails Gate Manufacturing

TestCode: 0.20\_NYS

Sample ID: C2102025-002A MS	Sample Type: MS	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195996

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8200	0.15	1	0	82.0	70	130				
Carbon tetrachloride	0.8200	0.030	1	0.06	76.0	61	107				
Chlorobenzene	0.9500	0.15	1	0	95.0	76.1	111				
Chloroethane	0.8500	0.15	1	0	85.0	62.6	119				
Chloroform	0.8600	0.15	1	0	86.0	6.54	173				
Chloromethane	1.180	0.15	1	0.34	84.0	54.4	125				
cis-1,2-Dichloroethene	0.8600	0.040	1	0	86.0	60.1	121				
cis-1,3-Dichloropropene	0.8900	0.15	1	0	89.0	60.8	122				
Cyclohexane	1.080	0.15	1	0.32	76.0	59.4	148				
Dibromochloromethane	0.7700	0.15	1	0	77.0	71.6	102				
Ethyl acetate	1.040	0.15	1	0.23	81.0	49.3	146				
Ethylbenzene	1.010	0.15	1	0	101	68.5	129				
Freon 11	1.060	0.15	1	0.21	85.0	44.8	143				
Freon 113	0.9100	0.15	1	0	91.0	80.3	125				
Freon 114	0.8200	0.15	1	0	82.0	65.2	132				
Freon 12	1.170	0.15	1	0.39	78.0	67.4	103				
Heptane	0.9500	0.15	1	0.14	81.0	80.8	124				
Hexachloro-1,3-butadiene	0.9700	0.15	1	0	97.0	81.9	119				
Hexane	1.070	0.15	1	0.19	88.0	73.7	147				S
Isopropyl alcohol	6.920	0.15	1	6.7	22.0	70	130				
m&p-Xylene	2.030	0.30	2	0.23	90.0	74.2	123				
Methyl Butyl Ketone	0.8400	0.30	1	0	84.0	72.6	117				
Methyl Ethyl Ketone	1.970	0.30	1	1.07	90.0	59.4	135				
Methyl Isobutyl Ketone	0.8000	0.30	1	0	80.0	61	120				
Methyl tert-butyl ether	1.070	0.15	1	0	107	63.6	134				
Methylene chloride	1.090	0.15	1	0.26	83.0	53.4	125				
o-Xylene	0.9800	0.15	1	0.12	86.0	74.3	132				
Propylene	2.110	0.15	1	0	211	70	130				S
Styrene	1.150	0.15	1	0.22	93.0	82.4	118				
Tetrachloroethylene	0.9400	0.15	1	0	94.0	86.2	112				
Tetrahydrofuran	0.9000	0.15	1	0	90.0	70	130				

Qualifiers: Results reported are not blank corrected  
 J Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MS	Batch ID: R17271	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271					
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15	Analysis Date: 2/16/2021	HighLimit	RPD Ref Val	SeqNo: 195996					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.420	0.15	1	0.56	86.0	70	130				
trans-1,2-Dichloroethene	0.8400	0.15	1	0	84.0	70.9	132				
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	51.9	133				
Trichloroethene	0.8700	0.030	1	0	87.0	63.1	109				
Vinyl acetate	1.100	0.15	1	0	110	17.3	187				
Vinyl Bromide	0.8800	0.15	1	0	88.0	71.3	121				
Vinyl chloride	0.7500	0.040	1	0	75.0	63.2	114				
Surr: Bromofluorobenzene	1.030	0	1	0	103	83.2	131				

Sample ID: C2102025-002A MS	SampType: MSD	Batch ID: R17271	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271					
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15	Analysis Date: 2/16/2021	HighLimit	RPD Ref Val	SeqNo: 195997					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8700	0.15	1	0	87.0	68.1	117	0.89	2.27	0	0
1,1,2,2-Tetrachloroethane	0.8600	0.15	1	0	86.0	82.3	101	0.84	2.35	0	0
1,1,2-Trichloroethane	0.8100	0.15	1	0	81.0	61	128	0.81	0	0	0
1,1-Dichloroethane	0.8400	0.15	1	0	84.0	76.5	118	0.82	2.41	0	0
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	45.8	128	0.88	10.8	0	0
1,2,4-Trichlorobenzene	1.200	0.15	1	0	120	30.3	262	1.19	0.837	0	0
1,2,4-Trimethylbenzene	1.100	0.15	1	0	110	81.5	155	1.08	1.83	0	0
1,2-Dibromoethane	0.9000	0.15	1	0	90.0	78.7	107	0.89	1.12	0	0
1,2-Dichlorobenzene	0.9800	0.15	1	0	98.0	57.2	175	1	2.02	0	0
1,2-Dichloroethane	0.8100	0.15	1	0	81.0	65.1	130	0.84	3.64	0	0
1,2-Dichloropropane	0.7900	0.15	1	0	79.0	68.9	116	0.79	0	0	0
1,3,5-Trimethylbenzene	1.010	0.15	1	0	101	67.6	139	0.99	2.00	0	0
1,3-butadiene	1.110	0.15	1	0	111	70	404	1.06	4.61	0	0
1,3-Dichlorobenzene	0.9800	0.15	1	0	98.0	89.1	122	0.97	1.03	0	0
1,4-Dichlorobenzene	0.9700	0.15	1	0	97.0	86.8	114	0.97	0	0	0
1,4-Dioxane	0.8300	0.30	1	0	83.0	75.1	114	0.84	1.20	0	0
2,2,4-trimethylpentane	0.9200	0.15	1	0	92.0	84.2	113	0.91	1.09	0	0

**Qualifiers:** J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 E Spike Recovery outside accepted recovery limits  
 ND Estimated Value above quantitation range  
 DL Not Detected at the Limit of Detection  
 H RPD outside accepted recovery limits  
 R Holding times for preparation or analysis exceeded

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MSD	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 17271
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15		Analysis Date: 2/16/2021	SeqNo: 195997

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	1.030	0.15	1	0	103	70	130	1.02	0.976	0	
Acetone	4.170	0.30	1	4.14	3.00	70	130	4.17	0	0	S
Allyl chloride	0.8200	0.15	1	0	82.0	49.7	155	0.81	1.23	0	
Benzene	1.080	0.15	1	0.26	82.0	72.7	133	1.08	0	0	
Benzyl chloride	0.9100	0.15	1	0	91.0	72.5	129	0.92	1.09	0	
Bromodichloromethane	0.7200	0.15	1	0	72.0	69.4	112	0.73	1.38	0	
Bromoform	0.7000	0.15	1	0	70.0	42.5	110	0.69	1.44	0	
Bromomethane	0.7800	0.15	1	0	78.0	68.6	121	0.78	0	0	
Carbon disulfide	0.8300	0.15	1	0	83.0	70	130	0.82	1.21	0	
Carbon tetrachloride	0.8100	0.030	1	0.06	75.0	61	107	0.82	1.23	0	
Chlorobenzene	0.9700	0.15	1	0	97.0	76.1	111	0.95	2.08	0	
Chloroethane	0.7700	0.15	1	0	77.0	62.6	119	0.85	9.88	0	
Chloroform	0.8600	0.15	1	0	86.0	6.54	173	0.86	0	0	
Chloromethane	1.100	0.15	1	0.34	76.0	54.4	125	1.18	7.02	0	
cis-1,2-Dichloroethene	0.8500	0.040	1	0	85.0	60.1	121	0.86	1.17	0	
cis-1,3-Dichloropropene	0.8700	0.15	1	0	87.0	60.8	122	0.89	2.27	0	
Cyclohexane	1.160	0.15	1	0.32	84.0	59.4	148	1.08	7.14	0	
Dibromochloromethane	0.7700	0.15	1	0	77.0	71.6	102	0.77	0	0	
Ethyl acetate	1.050	0.15	1	0.23	82.0	49.3	146	1.04	0.957	0	
Ethylbenzene	1.020	0.15	1	0	102	68.5	129	1.01	0.985	0	
Freon 11	1.040	0.15	1	0.21	83.0	44.8	143	1.06	1.90	0	
Freon 113	0.8200	0.15	1	0	82.0	80.3	125	0.91	10.4	0	
Freon 114	0.7500	0.15	1	0	75.0	65.2	132	0.82	8.92	0	
Freon 12	1.120	0.15	1	0.39	73.0	67.4	103	1.17	4.37	0	
Heptane	0.9600	0.15	1	0.14	82.0	80.8	124	0.95	1.05	0	
Hexachloro-1,3-butadiene	0.9700	0.15	1	0	97.0	81.9	119	0.97	0	0	
Hexane	1.100	0.15	1	0.19	91.0	73.7	147	1.07	2.76	0	
Isopropyl alcohol	6.830	0.15	1	6.7	13.0	70	130	6.92	1.31	0	S
m&p-Xylene	2.060	0.30	2	0.23	91.5	74.2	123	2.03	1.47	0	
Methyl Butyl Ketone	0.8400	0.30	1	0	84.0	72.6	117	0.84	0	0	
Methyl Ethyl Ketone	1.960	0.30	1	1.07	89.0	59.4	135	1.97	0.509	0	

**Qualifiers:** . Results reported are not blank corrected  
 J Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

**CLIENT:** Leader Consulting Services  
**Work Order:** C2102025  
**Project:** Vails Gate Manufacturing

**TestCode:** 0.20\_NYS

Sample ID: C2102025-002A MS	SampType: MSD	Batch ID: R17271	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 17271					
Client ID: Summa (MS/MSD)	Batch ID: R17271	TestNo: TO-15	Analysis Date: 2/16/2021	SeqNo: 195997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	0.8100	0.30	1	0	81.0	61	120	0.8	1.24	0	
Methyl tert-butyl ether	1.070	0.15	1	0	107	63.6	134	1.07	0	0	
Methylene chloride	1.100	0.15	1	0.26	84.0	53.4	125	1.09	0.913	0	
o-Xylene	0.9900	0.15	1	0.12	87.0	74.3	132	0.98	1.02	0	
Propylene	1.980	0.15	1	0	198	70	130	2.11	6.36	0	S
Styrene	1.170	0.15	1	0.22	95.0	82.4	118	1.15	1.72	0	
Tetrachloroethylene	0.9500	0.15	1	0	95.0	86.2	112	0.94	1.06	0	
Tetrahydrofuran	0.9000	0.15	1	0	90.0	70	130	0.9	0	0	
Toluene	1.440	0.15	1	0.56	86.0	70	130	1.42	1.40	0	
trans-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70.9	132	0.84	1.18	0	
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	51.9	133	1	1.01	0	
Trichloroethene	0.8600	0.030	1	0	86.0	63.1	109	0.87	1.16	0	
Vinyl acetate	1.120	0.15	1	0	112	70	130	1.1	1.80	0	
Vinyl Bromide	0.8700	0.15	1	0	87.0	70	130	0.88	1.14	0	
Vinyl chloride	0.7300	0.040	1	0	73.0	63.2	114	0.75	2.70	0	
Surr: Bromofluorobenzene	1.060	0	1	0	106	83.2	131	0	0	0	

**Qualifiers:** J Results reported are not blank corrected  
 S Analyte detected below quantitation limit  
 S Spike Recovery outside accepted recovery limits  
 E Estimated Value above quantitation range  
 ND Not Detected at the Limit of Detection  
 DL Detection Limit  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AS021517.D

Vial: 13

Acq On : 16 Feb 2021 1:07 am

Operator: RJP

Sample : C2102025-002A MS

Inst : MSD #1

Misc : A123\_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Feb 16 06:39:55 2021

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Sat Jan 23 21:26:14 2021

Response via : Initial Calibration

DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	42859	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.06	114	211889	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	199399	1.00	ppb	-0.02

## System Monitoring Compounds

65) Bromofluorobenzene	18.68	95	153535	1.03	ppb	-0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	103.00%

## Target Compounds

Target Compounds	R.T.	Qion	Response	Conc	Units	Qvalue
2) Propylene	4.14	41	69823	2.11	ppb	66
3) Freon 12	4.19	85	218268	1.17	ppb	98
4) Chloromethane	4.39	50	45177	1.18	ppb	98
5) Freon 114	4.39	85	111665	0.82	ppb	100
6) Vinyl Chloride	4.58	62	30346	0.75	ppb	94
7) Butane	4.69	43	83631	2.23	ppb	99
8) 1,3-butadiene	4.68	39	30208m	1.06	ppb	
9) Bromomethane	5.03	94	40359m	0.78	ppb	
10) Chloroethane	5.20	64	15806	0.85	ppb	93
11) Ethanol	5.29	45	161527	22.95	ppb	# 63
12) Acrolein	5.87	56	9498	1.03	ppb	96
13) Vinyl Bromide	5.54	106	45540	0.88	ppb	99
14) Freon 11	5.81	101	200216	1.06	ppb	99
15) Acetone	5.97	58	109895	4.17	ppb	# 1
16) Pentane	6.09	42	111121	2.65	ppb	87
17) Isopropyl alcohol	6.07	45	365416	6.92	ppb	# 48
18) 1,1-dichloroethene	6.57	96	52216	0.88	ppb	96
19) Freon 113	6.77	101	126631	0.91	ppb	94
20) t-Butyl alcohol	6.79	59	133173	1.61	ppb	# 86
21) Methylene chloride	7.03	84	59391	1.09	ppb	93
22) Allyl chloride	7.02	41	42766	0.81	ppb	92
23) Carbon disulfide	7.19	76	141901	0.82	ppb	96
24) trans-1,2-dichloroethene	7.96	61	67047	0.84	ppb	99
25) methyl tert-butyl ether	7.98	73	142757	1.07	ppb	81
26) 1,1-dichloroethane	8.39	63	84509	0.82	ppb	97
27) Vinyl acetate	8.37	43	34729	1.10	ppb	99
28) Methyl Ethyl Ketone	8.86	72	50912	1.97	ppb	# 100
29) cis-1,2-dichloroethene	9.32	61	67105	0.86	ppb	98
30) Hexane	8.93	57	82758m	1.07	ppb	
31) Ethyl acetate	9.46	43	149722	1.04	ppb	99
32) Chloroform	9.93	83	121141	0.86	ppb	99
33) Tetrahydrofuran	10.09	42	41753	0.90	ppb	98
34) 1,2-dichloroethane	11.05	62	77220	0.84	ppb	99
36) 1,1,1-trichloroethane	10.76	97	117236	0.89	ppb	100
37) Cyclohexane	11.47	56	85414	1.08	ppb	# 86
38) Carbon tetrachloride	11.41	117	104130	0.82	ppb	99
39) Benzene	11.37	78	206372	1.08	ppb	99
40) Methyl methacrylate	12.95	41	55069	0.83	ppb	96
41) 1,4-dioxane	12.96	88	38703	0.84	ppb	92
42) 2,2,4-trimethylpentane	12.23	57	232641	0.91	ppb	95
43) Heptane	12.59	43	83226	0.95	ppb	97
44) Trichloroethene	12.71	130	91741	0.87	ppb	96
45) 1,2-dichloropropane	12.82	63	55329	0.79	ppb	99

(#)=qualifier out of range (m)=manual integration

AS021517.D A123\_1UG.M

Thu Feb 25 13:19:01 2021

MSD1

Page 1

Data File : C:\HPCHEM\1\DATA\AS021517.D  
 Acq On : 16 Feb 2021 1:07 am  
 Sample : C2102025-002A MS  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:55 2021

Vial: 13  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.16	83	109214	0.73	ppb	99
47) cis-1,3-dichloropropene	13.98	75	85168	0.89	ppb	98
48) trans-1,3-dichloropropene	14.76	75	67050	1.00	ppb	99
49) 1,1,2-trichloroethane	15.08	97	75102	0.81	ppb	99
51) Toluene	14.83	92	191743	1.42	ppb	100
52) Methyl Isobutyl Ketone	13.89	43	100334	0.80	ppb	98
53) Dibromochloromethane	15.81	129	110708	0.77	ppb	99
54) Methyl Butyl Ketone	15.26	43	102373	0.84	ppb	93
55) 1,2-dibromoethane	16.08	107	123335	0.89	ppb	99
56) Tetrachloroethylene	15.91	164	103922	0.94	ppb	99
57) Chlorobenzene	16.94	112	202789	0.95	ppb	95
58) Ethylbenzene	17.21	91	312701	1.01	ppb	99
59) m&p-xylene	17.39	91	516900	2.03	ppb	99
60) Nonane	17.84	43	223396	1.66	ppb	# 57
61) Styrene	17.90	104	223601	1.15	ppb	99
62) Bromoform	18.03	173	89017	0.69	ppb	99
63) o-xylene	17.93	91	280964	0.98	ppb	100
64) Cumene	18.56	105	368601	1.02	ppb	100
66) 1,1,2,2-tetrachloroethane	18.43	83	178927	0.84	ppb	# 76
67) Propylbenzene	19.17	120	106238	1.06	ppb	98
68) 2-Chlorotoluene	19.21	126	97769	0.98	ppb	# 93
69) 4-ethyltoluene	19.36	105	373796	1.02	ppb	100
70) 1,3,5-trimethylbenzene	19.43	105	319969	0.99	ppb	76
71) 1,2,4-trimethylbenzene	19.94	105	330864	1.08	ppb	99
72) 1,3-dichlorobenzene	20.28	146	225273	0.97	ppb	99
73) benzyl chloride	20.35	91	75982	0.92	ppb	98
74) 1,4-dichlorobenzene	20.42	146	222878	0.97	ppb	98
75) 1,2,3-trimethylbenzene	20.48	105	304739	0.99	ppb	100
76) 1,2-dichlorobenzene	20.79	146	219119	1.00	ppb	99
77) 1,2,4-trichlorobenzene	22.91	180	165916	1.19	ppb	100
78) Naphthalene	23.11	128	378628	1.23	ppb	100
79) Hexachloro-1,3-butadiene	23.23	225	187340	0.97	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS021517.D A123\_1UG.M Thu Feb 25 13:19:01 2021 MSD1



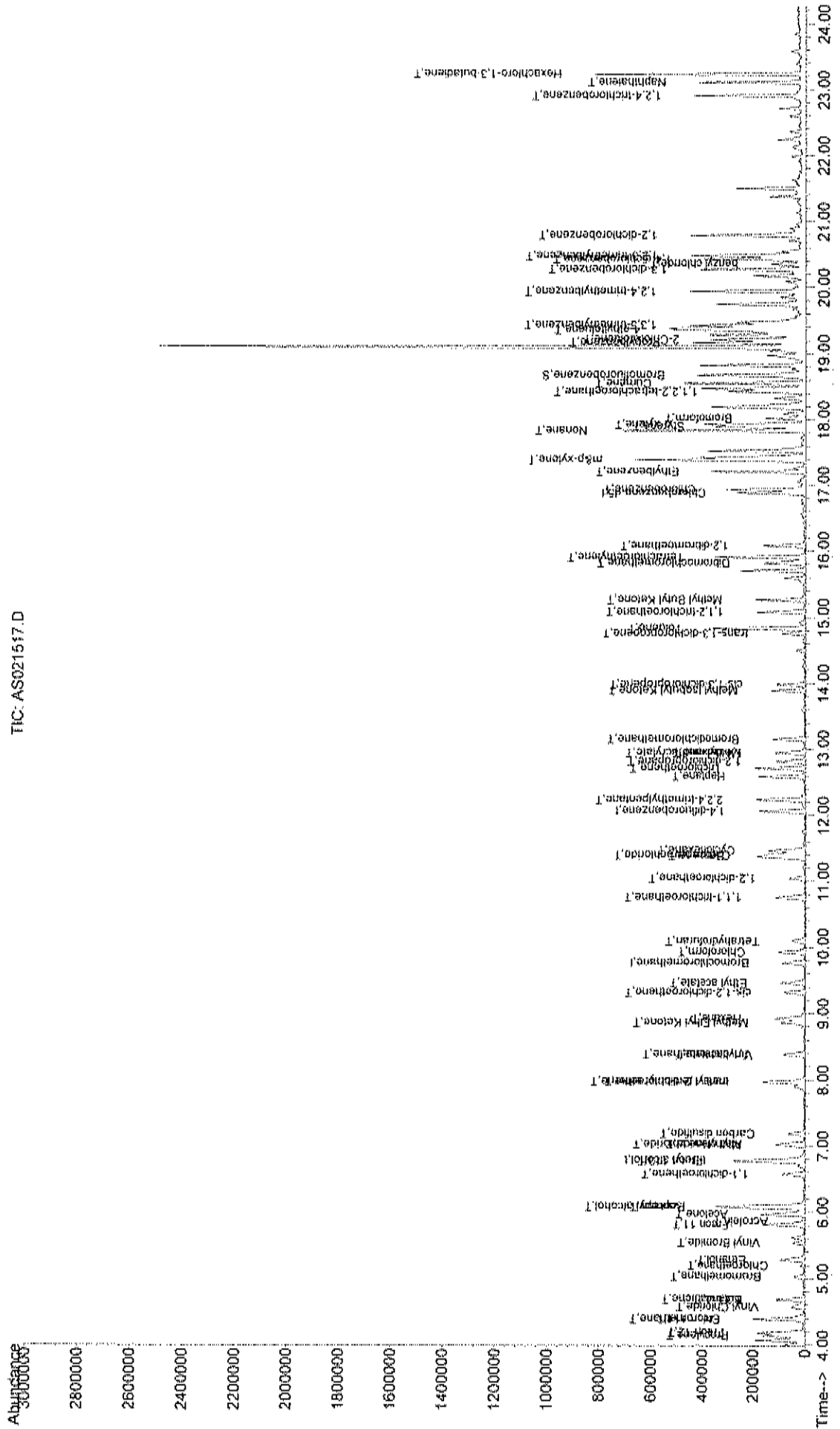
Data File : C:\HPCHEM\1\DATA\AS021517.D  
 Acq On : 16 Feb 2021 1:07 am  
 Sample : C2102025-002A MS  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 22 12:50 2021

Vial: 13  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Thu Feb 25 13:17:07 2021  
 Response via : Initial Calibration

TIC: AS021517.D



Data File : C:\HPCHEM\1\DATA\AS021518.D  
 Acq On : 16 Feb 2021 1:57 am  
 Sample : C2102025-002A MSD  
 Misc : A123\_LUG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:56 2021

Vial: 14  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_LUG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_LUG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : LUG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.77	128	44960	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.06	114	222234	1.00	ppb	-0.03
50) Chlorobenzene-d5	16.88	117	204795	1.00	ppb	-0.02

#### System Monitoring Compounds

65) Bromofluorobenzene	18.68	95	161907	1.06	ppb	-0.02
Spiked Amount	1.000	Range 70 - 130	Recovery	=	106.00%	

#### Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.15	41	68751	1.98	ppb	66
3) Freon 12	4.19	85	217669	1.12	ppb	98
4) Chloromethane	4.39	50	44068	1.10	ppb	100
5) Freon 114	4.39	85	107522	0.75	ppb	99
6) Vinyl Chloride	4.59	62	30832m	0.73	ppb	
7) Butane	4.68	43	83994	2.13	ppb	# 83
8) 1,3-butadiene	4.68	39	33311	1.11	ppb	68
9) Bromomethane	5.03	94	42368m	0.78	ppb	
10) Chloroethane	5.20	64	15056	0.77	ppb	91
11) Ethanol	5.29	45	158885	21.52	ppb	# 64
12) Acrolein	5.88	56	9927	1.03	ppb	98
13) Vinyl Bromide	5.54	106	47723	0.87	ppb	99
14) Freon 11	5.82	101	206845	1.04	ppb	98
15) Acetone	5.97	58	115111	4.17	ppb	# 1
16) Pentane	6.09	42	115569	2.62	ppb	84
17) Isopropyl alcohol	6.08	45	378503	6.83	ppb	# 50
18) 1,1-dichloroethene	6.57	96	48916	0.79	ppb	95
19) Freon 113	6.78	101	119511	0.82	ppb	93
20) t-Butyl alcohol	6.79	59	138223	1.59	ppb	# 92
21) Methylene chloride	7.03	84	63250	1.10	ppb	93
22) Allyl chloride	7.02	41	45117	0.82	ppb	92
23) Carbon disulfide	7.19	76	149163	0.83	ppb	97
24) trans-1,2-dichloroethene	7.96	61	71452	0.85	ppb	99
25) methyl tert-butyl ether	7.98	73	149935	1.07	ppb	81
26) 1,1-dichloroethane	8.39	63	90217	0.84	ppb	98
27) Vinyl acetate	8.38	43	36980	1.12	ppb	96
28) Methyl Ethyl Ketone	8.87	72	53261	1.96	ppb	# 100
29) cis-1,2-dichloroethene	9.32	61	69427	0.85	ppb	94
30) Hexane	8.93	57	88833m	1.10	ppb	
31) Ethyl acetate	9.47	43	159578	1.05	ppb	99
32) Chloroform	9.93	83	127562	0.86	ppb	99
33) Tetrahydrofuran	10.10	42	44102	0.90	ppb	97
34) 1,2-dichloroethane	11.05	62	78538	0.81	ppb	99
36) 1,1,1-trichloroethane	10.76	97	120068	0.87	ppb	99
37) Cyclohexane	11.47	56	96350m	1.16	ppb	
38) Carbon tetrachloride	11.40	117	107445	0.81	ppb	98
39) Benzene	11.37	78	216760	1.08	ppb	99
40) Methyl methacrylate	12.94	41	55831	0.81	ppb	98
41) 1,4-dioxane	12.97	88	40144	0.83	ppb	95
42) 2,2,4-trimethylpentane	12.24	57	246831	0.92	ppb	96
43) Heptane	12.59	43	87870	0.96	ppb	97
44) Trichloroethene	12.71	130	95333	0.86	ppb	96
45) 1,2-dichloropropane	12.82	63	58275	0.79	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AS021518.D  
 Acq On : 16 Feb 2021 1:57 am  
 Sample : C2102025-002A MSD  
 Misc : A123\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Feb 16 06:39:56 2021

Vial: 14  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A123\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Sat Jan 23 21:26:14 2021  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.16	83	113089	0.72	ppb	99
47) cis-1,3-dichloropropene	13.98	75	87963	0.87	ppb	98
48) trans-1,3-dichloropropene	14.75	75	69320	0.99	ppb	93
49) 1,1,2-trichloroethane	15.08	97	77990	0.81	ppb	99
51) Toluene	14.83	92	200003	1.44	ppb	99
52) Methyl Isobutyl Ketone	13.89	43	104380	0.81	ppb	99
53) Dibromochloromethane	15.82	129	114184	0.77	ppb	99
54) Methyl Butyl Ketone	15.26	43	104244	0.84	ppb	94
55) 1,2-dibromoethane	16.08	107	128765	0.90	ppb	98
56) Tetrachloroethylene	15.91	164	108389	0.95	ppb	97
57) Chlorobenzene	16.93	112	212450	0.97	ppb	96
58) Ethylbenzene	17.21	91	323884	1.02	ppb	98
59) m&p-xylene	17.39	91	538461	2.06	ppb	99
60) Nonane	17.84	43	233594	1.69	ppb	# 56
61) Styrene	17.90	104	234943	1.17	ppb	100
62) Bromoform	18.02	173	92014	0.70	ppb	99
63) o-xylene	17.93	91	292705	0.99	ppb	100
64) Cumene	18.56	105	383874	1.04	ppb	99
66) 1,1,2,2-tetrachloroethane	18.43	83	187140	0.86	ppb	# 76
67) Propylbenzene	19.17	120	110966	1.08	ppb	96
68) 2-Chlorotoluene	19.21	126	100156	0.97	ppb	95
69) 4-ethyltoluene	19.36	105	385390	1.03	ppb	100
70) 1,3,5-trimethylbenzene	19.43	105	333666	1.01	ppb	75
71) 1,2,4-trimethylbenzene	19.94	105	344935	1.10	ppb	100
72) 1,3-dichlorobenzene	20.27	146	234093	0.98	ppb	100
73) benzyl chloride	20.35	91	77043	0.91	ppb	98
74) 1,4-dichlorobenzene	20.42	146	229711	0.97	ppb	98
75) 1,2,3-trimethylbenzene	20.48	105	316136	1.00	ppb	100
76) 1,2-dichlorobenzene	20.79	146	220129	0.98	ppb	99
77) 1,2,4-trichlorobenzene	22.90	180	172475	1.20	ppb	100
78) Naphthalene	23.11	128	394939	1.25	ppb	99
79) Hexachloro-1,3-butadiene	23.23	225	192442	0.97	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed  
 AS021518.D A123\_1UG.M Thu Feb 25 13:19:05 2021 MSD1

Quantitation Report (QI Reviewed)

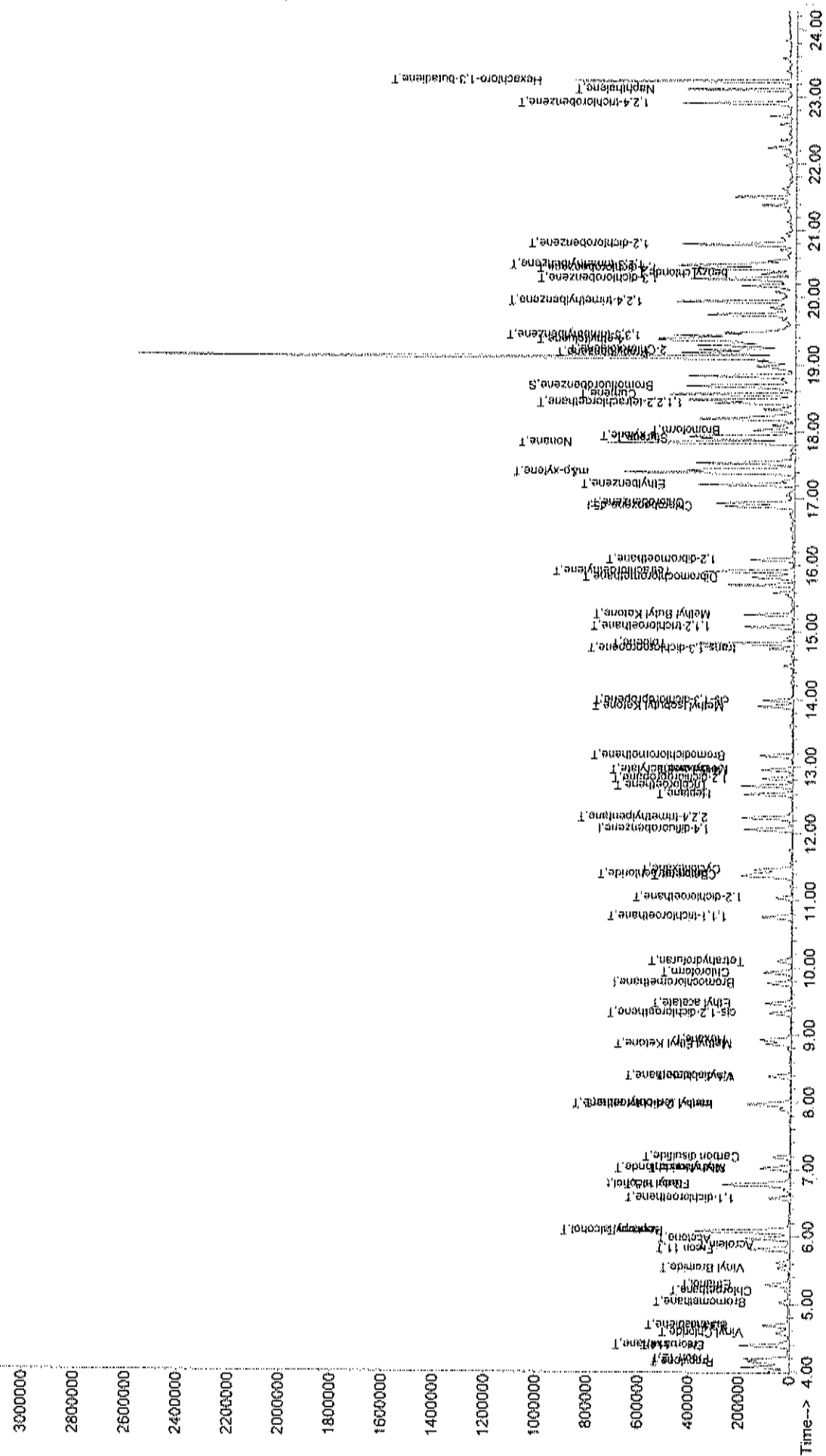
Data File : C:\HPCHEM\1\DATA\AS021518.D  
Acq On : 16 Feb 2021 1:57 am  
Sample : C2102025-002A MSD  
Misc : A123\_IUG  
MS Integration Params: RTEINT.P  
Quant Time: Feb 22 12:51 2021

Vial: 14  
Operator: RJP  
Inst : MSD #1  
Multiplr: 1.00

Quant Results File: A123\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:17:07 2021  
Response via : Initial Calibration

Abundance  
TIC: AS021518.D



**GC/MS VOLATILES-WHOLE AIR**

**METHOD TO-15**

**INJECTION LOG**

## Injection Log

Directory: C:\HPCHEM\1\DATA

Instrument # 1  
 Internal Standard Stock # A4250  
 Standard Stock # 4251  
 ALCS Stock # A4250-Injected  
 Method Ref: EPA TO-15/Jan. 1999

Line	Vial	FileName	Multiplier	SampleName	Misc Info	
6	12	As021116.d	1.	C2102020-006A	A123_1UG	12 Feb 2021 01:16
7	41	As021117.d	1.	C2102020-008A	A123_1UG	12 Feb 2021 02:00
8	42	As021118.d	1.	C2102020-010A	A123_1UG	12 Feb 2021 02:44
9	43	As021119.d	1.	C2102020-003A	A123_1UG	12 Feb 2021 03:29
0	44	As021120.d	1.	C2102020-005A	A123_1UG	12 Feb 2021 04:13
1	45	As021121.d	1.	C2102020-007A	A123_1UG	12 Feb 2021 04:57
2	46	As021122.d	1.	C2102020-009A	A123_1UG	12 Feb 2021 05:42
3	47	As021123.d	1.	ALCS1UGD-021121	A123_1UG	12 Feb 2021 06:26
4	48	As021124.d	1.	C2102019-001A 10X	A123_1UG	12 Feb 2021 07:09
5	49	As021125.d	1.	C2102019-002A 10X	A123_1UG	12 Feb 2021 07:52
6	50	As021126.d	1.	C2102019-003A 10X	A123_1UG	12 Feb 2021 08:35
7		As021127.d	1.	No MS or GC data present		
8	1	As021201.d	1.	BFB1UG	A123_1UG	12 Feb 2021 11:16
9	2	As021202.d	1.	A1UG_1.0	A123_1UG	12 Feb 2021 12:04
0	1	As021203.d	1.	ALCS1UG-021221	A123_1UG	12 Feb 2021 12:53
1	2	As021204.d	1.	AMB1UG-021221	A123_1UG	12 Feb 2021 13:33
2	3	As021205.d	1.	C2102013-001A 10X	A123_1UG	12 Feb 2021 14:16
3	4	As021206.d	1.	C2102013-002A 10X	A123_1UG	12 Feb 2021 14:59
4	5	As021207.d	1.	C2102015-001A 10X	A123_1UG	12 Feb 2021 15:42
5	6	As021208.d	1.	C2102015-002A 10X	A123_1UG	12 Feb 2021 16:25
6	7	As021209.d	1.	C2102021-001A 27X	A123_1UG	12 Feb 2021 17:09
7	8	As021210.d	1.	C2102021-001A 270X	A123_1UG	12 Feb 2021 17:52
8	9	As021211.d	1.	C2102020-001A 10X	A123_1UG	12 Feb 2021 18:35
9	10	As021212.d	1.	C2102020-001A 20X	A123_1UG	12 Feb 2021 19:18
0	11	As021213.d	1.	C2102020-002A 10X	A123_1UG	12 Feb 2021 20:01
1	12	As021214.d	1.	C2102020-004A 10X	A123_1UG	12 Feb 2021 20:44
2	13	As021215.d	1.	C2102020-004A 40X	A123_1UG	12 Feb 2021 21:26
3	14	As021216.d	1.	C2102020	A123_1UG -006A 9X	12 Feb 2021 22:11
4	15	As021217.d	1.	C2102020-006A 90X	A123_1UG	12 Feb 2021 22:54
5	16	As021218.d	1.	C2102020-008A 10X	A123_1UG	12 Feb 2021 23:37
6	17	As021219.d	1.	C2102020-010A 10X	A123_1UG	13 Feb 2021 00:20
7	18	As021220.d	1.	C2102020-010A 40X	A123_1UG	13 Feb 2021 01:02
8	19	As021221.d	1.	ALCS1UGD-021221	A123_1UG	13 Feb 2021 01:47
9	20	As021222.d	1.	C2102020-003A 10X	A123_1UG	13 Feb 2021 02:30
0	21	As021223.d	1.	C2102020-005A 9X	A123_1UG	13 Feb 2021 03:15
1	22	As021224.d	1.	C2102020-005A 90X	A123_1UG	13 Feb 2021 03:58
2	23	As021225.d	1.	C2102020-007A 9X	A123_1UG	13 Feb 2021 04:43
3	24	As021226.d	1.	C2102020-007A 90X	A123_1UG	13 Feb 2021 05:26
4	25	As021227.d	1.	C2102020-009A 9X	A123_1UG	13 Feb 2021 06:10
5	26	As021228.d	1.	C2102020-009A 90X	A123_1UG -009A 90X	13 Feb 2021 06:53
6	27	As021229.d	1.	C2102020	A123_1UG -009A ...	13 Feb 2021 07:36
7	28	As021230.d	1.	C2102020-009A 360X	A123_1UG	13 Feb 2021 08:19
8		As021231.d	1.	No MS or GC data present		
9	1	As021501.d	1.	BFB1UG	A123_1UG	15 Feb 2021 12:54
0	2	As021502.d	1.	A1UG_1.0	A123_1UG	15 Feb 2021 14:02
1	3	As021503.d	1.	ALCS1UG-021521	A123_1UG	15 Feb 2021 14:48
2	1	As021504.d	1.	AMB1UG-021521	A123_1UG	15 Feb 2021 15:37
3	2	As021505.d	1.	C2102029-001A	A123_1UG	15 Feb 2021 16:21
4	3	As021506.d	1.	C2102029-002A	A123_1UG	15 Feb 2021 17:06
5	4	As021507.d	1.	C2102029-001A 10X	A123_1UG	15 Feb 2021 17:48
6	5	As021508.d	1.	C2102029-002A 10X	A123_1UG	15 Feb 2021 18:31
7	6	As021509.d	1.	C2102026-001A	A123_1UG	15 Feb 2021 19:15
8	7	As021510.d	1.	C2102026-002A	A123_1UG	15 Feb 2021 19:59
9	8	As021511.d	1.	C2102026-003A	A123_1UG	15 Feb 2021 20:44
0	9	As021512.d	1.	C2102026-004A	A123_1UG	15 Feb 2021 21:28

## Injection Log

Directory: C:\HPCHEM\1\DATA

 Instrument # 1  
 Internal Standard Stock # A4250  
 Standard Stock # A4251  
 LCS Stock # A4252  
 Method Ref: EPA TO-17 injected. 1999

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Method Ref	Date/Time
11	10	As021513.d	1.	blk	A123_1UG		15 Feb 2021 22:07
12	10	As021514.d	1.	C2102025-003A	A123_1UG		15 Feb 2021 22:50
13	11	As021515.d	1.	C2102025-001A	A123_1UG		15 Feb 2021 23:34
14	12	As021516.d	1.	C2102025-002A	A123_1UG		16 Feb 2021 00:18
15	13	As021517.d	1.	C2102025-002A MS	A123_1UG		16 Feb 2021 01:07
16	14	As021518.d	1.	C2102025-002A MSD	A123_1UG		16 Feb 2021 01:57
17	15	As021519.d	1.	ALCS1UGD-021521	A123_1UG		16 Feb 2021 02:42
18	16	As021520.d	1.	C2102026-001A 10x	A123_1UG		16 Feb 2021 03:24
19	17	As021521.d	1.	C2102026	A123_1UG	-001A 40x	16 Feb 2021 04:06
20	18	As021522.d	1.	C2102026-002A 10x	A123_1UG		16 Feb 2021 04:49
21	19	As021523.d	1.	C2102026	A123_1UG	-002A 40x	16 Feb 2021 05:31
22	20	As021524.d	1.	C2102026-003A 10x	A123_1UG		16 Feb 2021 06:14
23	21	As021525.d	1.	C2102026	A123_1UG	-003A 40x	16 Feb 2021 06:56
24	22	As021526.d	1.	C2102026-004A 10x	A123_1UG		16 Feb 2021 07:39
25	23	As021527.d	1.	C2102026	A123_1UG	-004A 40x	16 Feb 2021 08:20
26		As021528.d	1.	No MS or GC data present			
27	1	As021601.d	1.	BFB1UG	A123_1UG		16 Feb 2021 09:10
28	2	As021602.d	1.	A1UG_1.0	A123_1UG		16 Feb 2021 10:50
29	3	As021603.d	1.	ALCS1UG-021621	A123_1UG		16 Feb 2021 11:34
30	4	As021604.d	1.	AMB1UG-021621	A123_1UG		16 Feb 2021 12:14
31	5	As021605.d	1.	C2102025-001A 10X	A123_1UG		16 Feb 2021 12:56
32	6	As021606.d	1.	C2102025-002A 10X	A123_1UG		16 Feb 2021 13:39
33	7	As021607.d	1.	C2102026-001A 729X	A123_1UG		16 Feb 2021 14:24
34	8	As021608.d	1.	C2102026-001A 7290X	A123_1UG		16 Feb 2021 15:07
35	9	As021609.d	1.	C2102026	A123_1UG	-002A ...	16 Feb 2021 15:51
36	10	As021610.d	1.	C2102026-002A 7290X	A123_1UG		16 Feb 2021 16:34
37	11	As021611.d	1.	C2102026-003A 729X	A123_1UG		16 Feb 2021 17:18
38	12	As021612.d	1.	C2102026-003A 7290X	A123_1UG		16 Feb 2021 18:00
39	13	As021613.d	1.	C2102026	A123_1UG	-004A ...	16 Feb 2021 18:45
40	14	As021614.d	1.	C2102026-004A 7290X	A123_1UG		16 Feb 2021 19:27
41	15	As021615.d	1.	C2102026-002A 14580X	A123_1UG		16 Feb 2021 21:28
42	16	As021616.d	1.	C2102026-004A 14580X	A123_1UG		16 Feb 2021 22:11
43		As021617.d	1.	No MS or GC data present			
44	1	As021801.d	1.	BFB1UG	A123_1UG		18 Feb 2021 08:21
45	2	As021802.d	1.	A1UG_1.0	A123_1UG		18 Feb 2021 09:16
46	3	As021803.d	1.	ALCS1UG-021821	A123_1UG		18 Feb 2021 10:47
47	4	As021804.d	1.	AMB1UG-021821	A123_1UG		18 Feb 2021 11:33
48	5	As021805.d	1.	WAC021821A	A123_1UG		18 Feb 2021 12:15
49	6	As021806.d	1.	WAC021821B	A123_1UG		18 Feb 2021 12:57
50	7	As021807.d	1.	WAC021821C	A123_1UG		18 Feb 2021 13:39
51	1	As021808.d	1.	WAC021821D	A123_1UG		18 Feb 2021 14:23
52	2	As021809.d	1.	WAC021821E	A123_1UG		18 Feb 2021 15:05
53	3	As021810.d	1.	WAC021821F	A123_1UG		18 Feb 2021 15:47
54	4	As021811.d	1.	WAC021821G	A123_1UG		18 Feb 2021 16:29
55	5	As021812.d	1.	WAC021821H	A123_1UG		18 Feb 2021 17:11
56	6	As021813.d	1.	WAC021821I	A123_1UG		18 Feb 2021 17:53
57	7	As021814.d	1.	C2102031-012A	A123_1UG		18 Feb 2021 18:35
58	8	As021815.d	1.	C2102031-002A	A123_1UG		18 Feb 2021 19:20
59	9	As021816.d	1.	C2102031-004A	A123_1UG		18 Feb 2021 20:04
60	10	As021817.d	1.	C2102031-004A MS	A123_1UG		18 Feb 2021 20:53
61	11	As021818.d	1.	C2102031-004A MSD	A123_1UG		18 Feb 2021 21:44
62	12	As021819.d	1.	C2102031-005A	A123_1UG		18 Feb 2021 22:28
63	13	As021820.d	1.	C2102031-006A	A123_1UG		18 Feb 2021 23:12
64	14	As021821.d	1.	C2102031-010A	A123_1UG		18 Feb 2021 23:57
65	15	As021822.d	1.	C2102031-011A	A123_1UG		19 Feb 2021 00:41

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG



Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-3505	12/3/19	12/10/19	TO15	A2573	1 ppm	1.5	30	50	WD	
A-3506			↓	A2572	10.2 ppm	1.47	30	500		
A-3507			TO15/16	A3498	50 ppb	0.9	45	1		
A-3508			STD	A3499	↓	↓	↓	↓		
A-3509			LCS	A3500	↓	↓	↓	↓		
A-3510	12/10/19	12/17/19	TO15	A2027	1 ppm	1.5	30	50	WD	
A-3511			STD	A2928	↓	↓	↓	↓		
A-3512			LCS	A2929	↓	↓	↓	↓		
A-3513			4PCH	A3305	1.029 ppm	1.46	30	50		
A-3514			4PCH	A3513	50 ppb	3.0	30	5		
A-3515			FORM	A2926	10.8 ppm	0.21	45	50		
A-3516			SIUX	<del>A2574</del> <del>A2683</del>	149 ppb 500 ppb	3.34 3.0	30	50		
A-3517			SNLF	A2573	1 ppm	1.5	30	50		
A-3518			H2S	A2572	10.2 ppm	1.47	30	500		
A-3519			↓	A3518	500 ppb	1.5	30	25		
A-3520			TO15/16	A3510	50 ppb	0.9	45	1		
A-3521			STD	A3511	↓	↓	↓	↓		
A-3522			LCS	A3512	↓	↓	↓	↓		
A-3523	11/20/19	11/20/20	TO15/16	FF-5014	LINDE	2000 psig	2000	1.0 ppm	ZZ	
A-3524	12/03/19	12/03/20	TO15/16	FF-11174	LINDE	2200 psig	2200	1.0 ppm	ZZ	
A-3525	12/17/19	12/24/19	TO15	A3523	1 ppm	1.5	30	50	WD	

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-4237	2/1/21	2/18/21	TO15 IUG IS	A4227	50 ppb	0.9	45	1	WD	
A-4238			STD	A4228						
A-4239			LCS	A4229						
A-4240	2/5/21	2/18/21	TO15 IS	A3523	1 ppm	1.5	30	50	MB	
A-4241			STD	A3621						
A-4242			LCS	A3650						
A-4243			TPCH	A3992	1.025 ppm	1.47				
A-4244			HPCH	H1273	50 ppb	3.0		5		
A-4245			FORM	A3792	10.3 ppm	0.22	45	50		
A-4246			6110 Y	2577/2623	449/500 ppm	3.34/3.0	30			
A-4247			SULF	A3626	1 ppm	1.5				
A-4248			H2S	A2572	10.2 ppm	1.97		500		
A-4249			H2S25	4248	500 ppm	1.5		25		
A-4250			TO15/IUG IS	4240	50	0.5	45			
A-4251			STD	4241						
A-4252			LCS	4242						
A-										
A-										
PA-										
GA-										
SA-										

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG



Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092505.D

Vial: 5

Acq On : 25 Sep 2020 12:19 pm

Operator: RJP

Sample : WAC092520A

Inst : MSD #1

Misc : A827\_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Sep 28 14:43:14 2020

Quant Results File: A827\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A827\_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Sep 22 12:05:07 2020

Response via : Initial Calibration

DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.87	128	47321	1.00	ppb	-0.03
35) 1,4-difluorobenzene	12.16	114	165465	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.97	117	128570	1.00	ppb	0.00

## System Monitoring Compounds

65) Bromofluorobenzene	18.76	95	64885	0.82	ppb	-0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

## Target Compounds

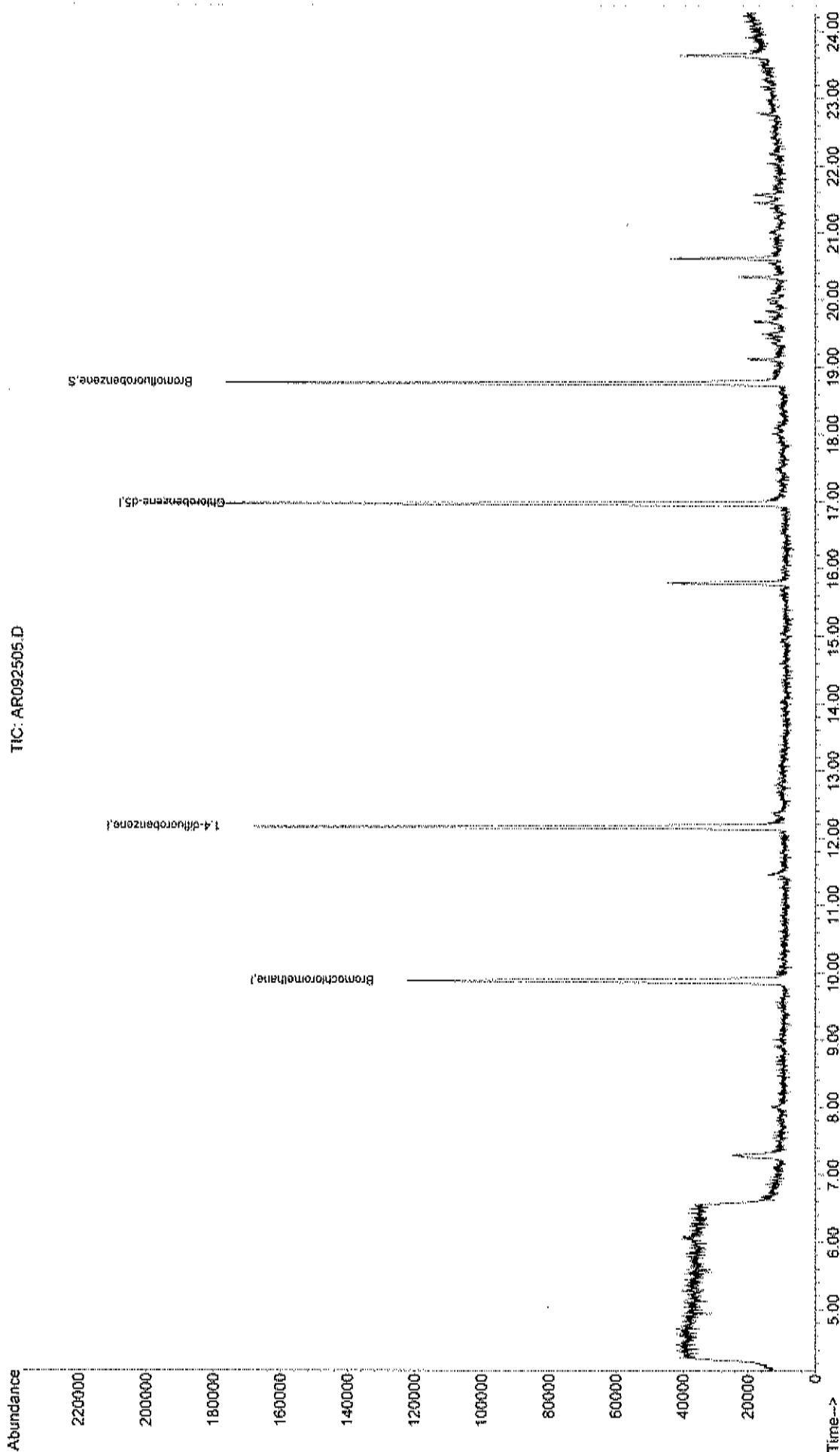
Qvalue

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092505.D Vial: 5  
Acq On : 25 Sep 2020 12:19 pm Operator: RJP  
Sample : WAC092520A Inst : MSD #1  
Misc : A827\_IUG Multiplr: 1.00

MS Integration Params: RTEINT.P  
Quant Time: Sep 29 11:33 2020 Quant Results File: A827\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:28:06 2021  
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092506.D  
 Acq On : 25 Sep 2020 1:02 pm  
 Sample : WAC092520B  
 Misc : A827\_1UG  
 MS Integration Params: RTEINT.P  
 Quant Time: Sep 28 14:43:15 2020

Vial: 6  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

Quant Results File: A827\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A827\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Tue Sep 22 12:05:07 2020  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.88	128	44295	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.17	114	154185	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.97	117	118254	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	18.76	95	59060	0.82	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	82.00%

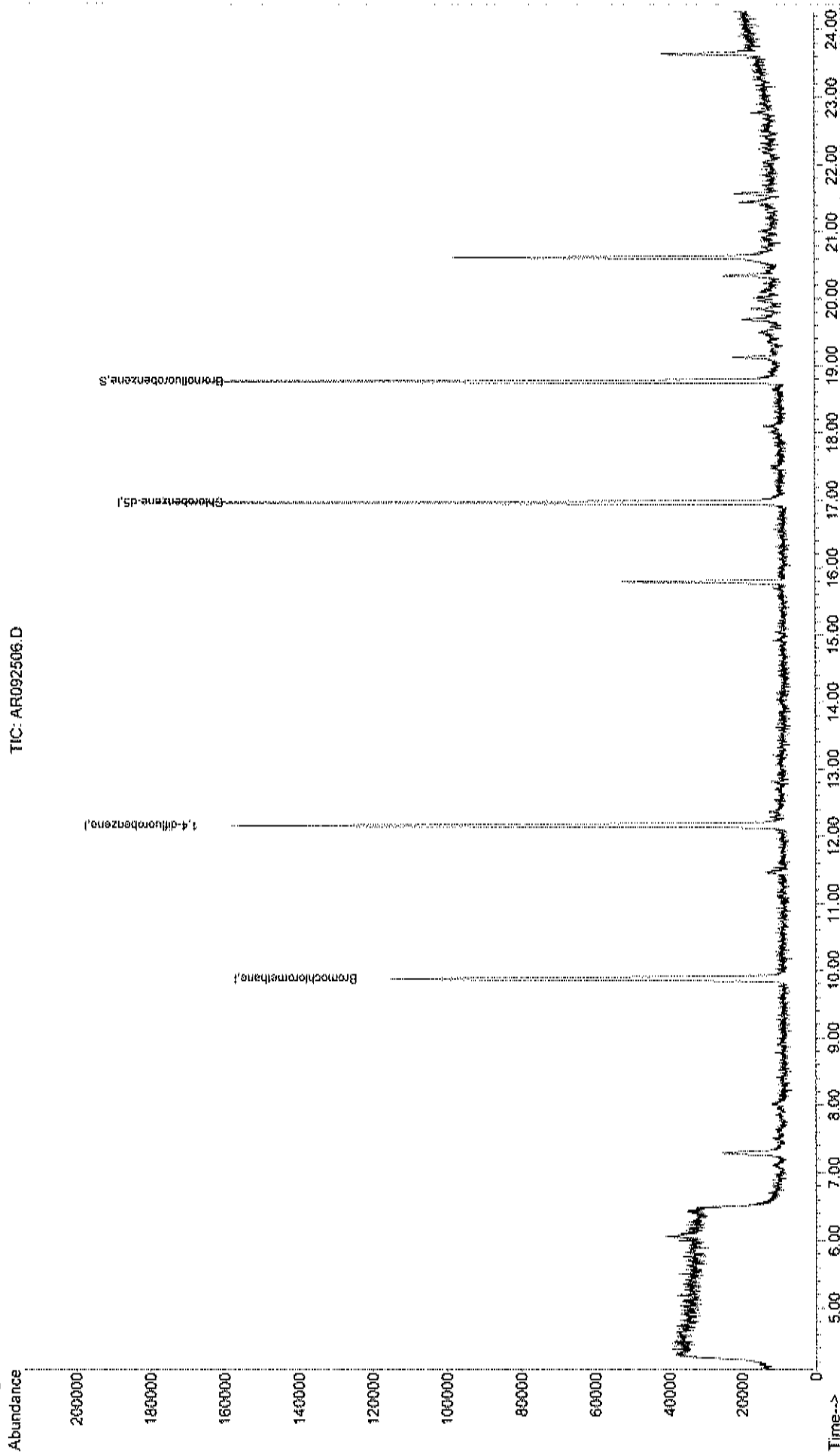
Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092506.D Vial: 6  
Acq On : 25 Sep 2020 1:02 pm Operator: RJP  
Sample : WAC092520B Inst : MSD #1  
Misc : A827\_IUG Multiplr: 1.00

MS Integration Params: RTEINT.P  
Quant Time: Sep 29 11:34 2020 Quant Results File: A827\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:28:06 2021  
Response via : Initial Calibration





Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092507.D  
 Acq On : 25 Sep 2020 1:44 pm  
 Sample : WAC092520C  
 Misc : A827\_1UG

Vial: 7  
 Operator: RJP  
 Inst : MSD #1  
 Multiplr: 1.00

MS Integration Params: RTEINT.P  
 Quant Time: Sep 28 14:43:16 2020

Quant Results File: A827\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A827\_1UG.M (RTE Integrator)  
 Title : TO-15 VOA Standards for 5 point calibration  
 Last Update : Tue Sep 22 12:05:07 2020  
 Response via : Initial Calibration  
 DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.88	128	44335	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.17	114	146636	1.00	ppb	-0.01
50) Chlorobenzene-d5	16.97	117	115371	1.00	ppb	0.00

#### System Monitoring Compounds

65) Bromofluorobenzene	18.76	95	58651	0.83	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	83.00%

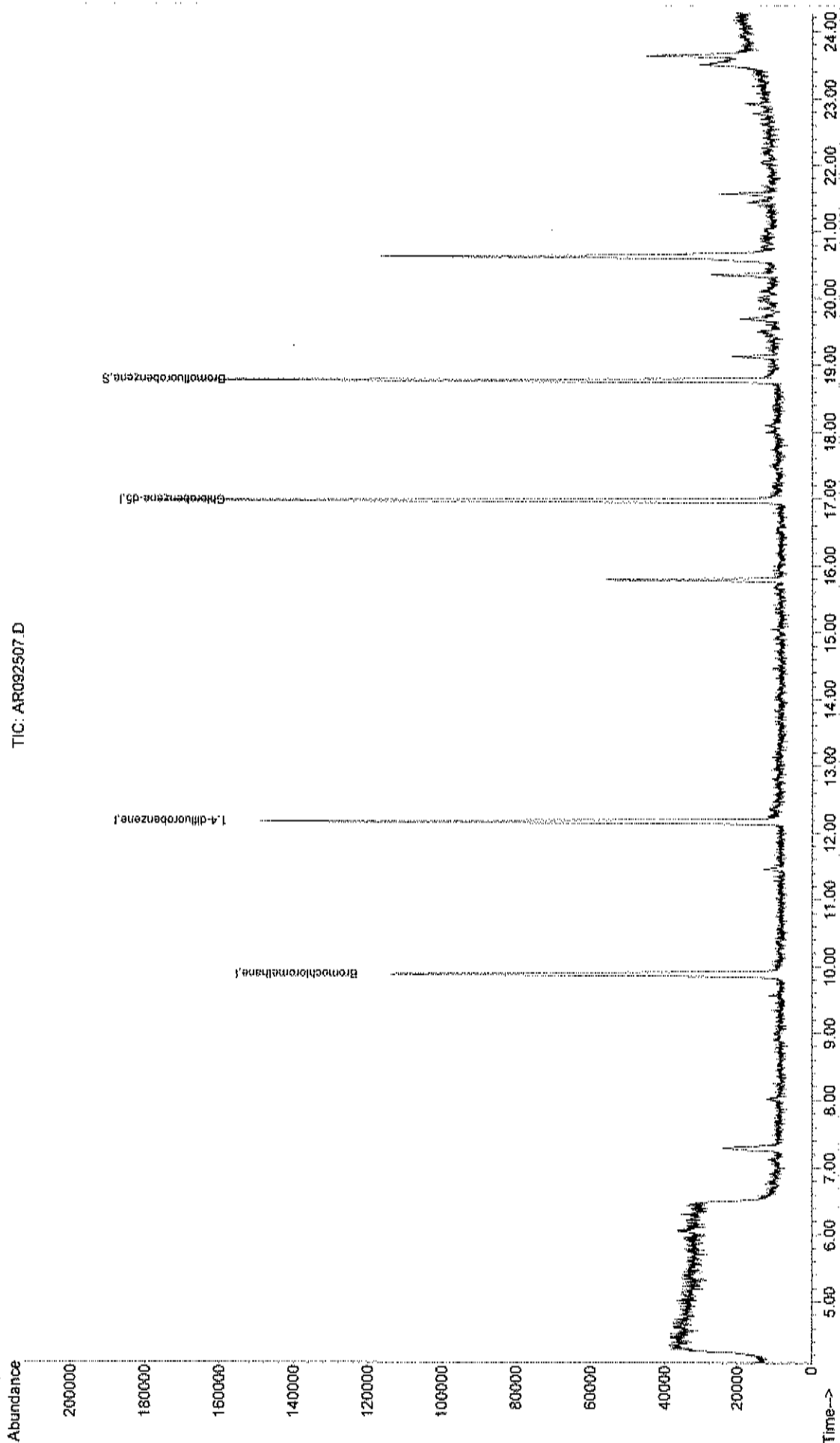
#### Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092507.D Vial: 7  
Acq On : 25 Sep 2020 1:44 pm Operator: RJP  
Sample : WAC092520C Inst : MSD #1  
Misc : A827\_1UG Multiplr: 1.00  
MS Integration Params: RTEINT.P  
Quant Time: Sep 29 11:34 2020 Quant Results File: A827\_1UG.RES

Method : C:\HPCHEM\1\METHODS\A123\_1UG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:28:06 2021  
Response via : Initial Calibration

TIC: AR092507.D



Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092508.D

Vial: 8

Acq On : 25 Sep 2020 2:27 pm

Operator: RJP

Sample : WAC092520D

Inst : MSD #1

Misc : A827\_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Sep 28 14:43:17 2020

Quant Results File: A827\_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A827\_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Tue Sep 22 12:05:07 2020

Response via : Initial Calibration

DataAcq Meth : 1UG\_ENT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.88	128	43233	1.00	ppb	-0.02
35) 1,4-difluorobenzene	12.16	114	145524	1.00	ppb	-0.02
50) Chlorobenzene-d5	16.96	117	113939	1.00	ppb	-0.01

## System Monitoring Compounds

65) Bromofluorobenzene	18.71	95	62113	0.89	ppb	-0.06
Spiked Amount	1.000	Range	70 - 130	Recovery	=	89.00%

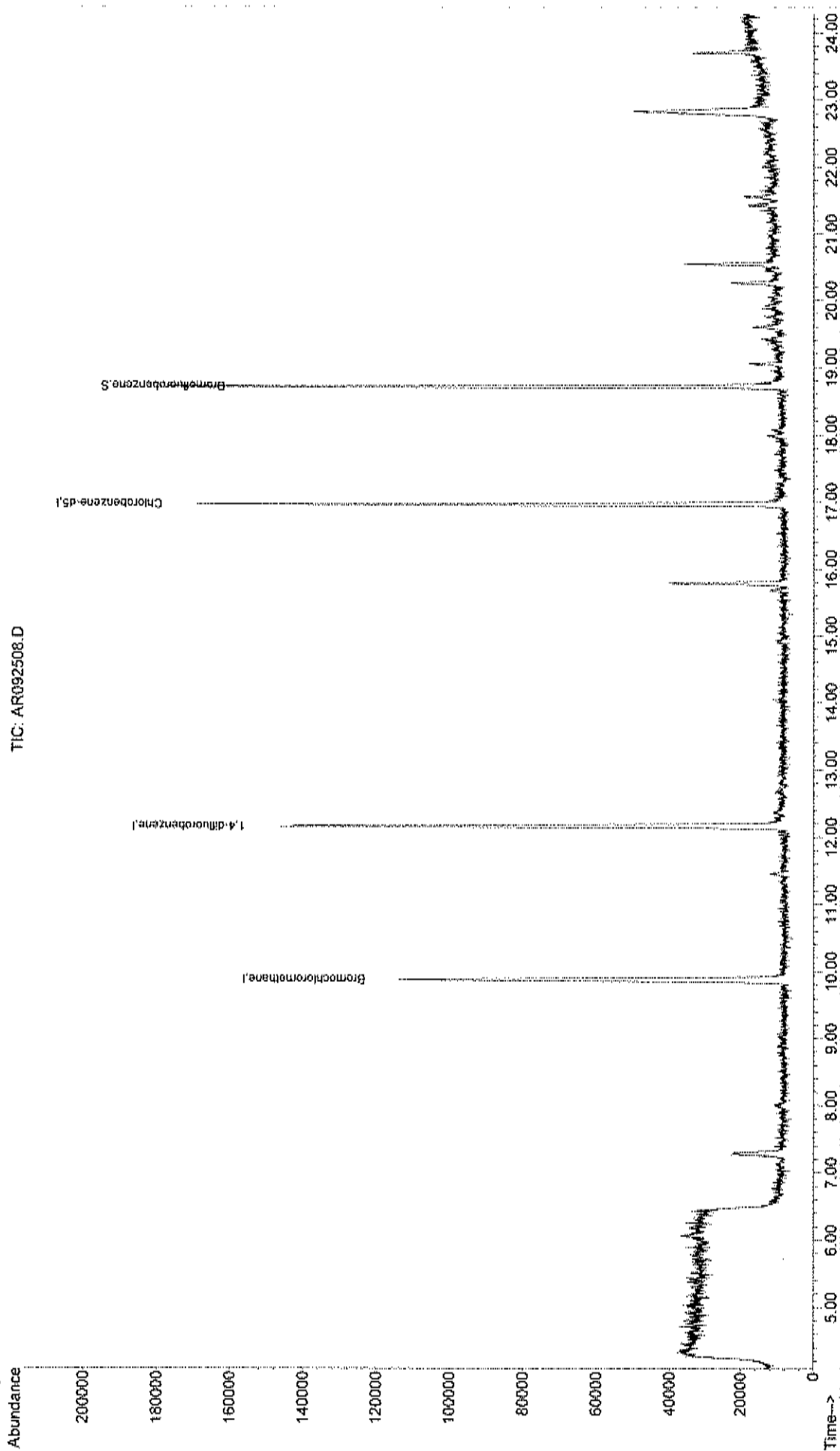
## Target Compounds

Qvalue

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2020SEPT\AR092508.D Vial: 8  
Acq On : 25 Sep 2020 2:27 pm Operator: RJP  
Sample : WAC092520D Inst : MSD #1  
Misc : A827 IUG Multiplr: 1.00  
MS Integration Params: RTEINT.P  
Quant Time: Sep 29 11:34 2020 Quant Results File: A827\_IUG.RES

Method : C:\HPCHEM\1\METHODS\A123\_IUG.M (RTE Integrator)  
Title : TO-15 VOA Standards for 5 point calibration  
Last Update : Thu Feb 25 13:28:06 2021  
Response via : Initial Calibration



# **Attachment C**

## **SSDS System Report**



# **Attachment D**

## **Groundwater Summary Tables**

TABLE 1a - MW-5A/AR

GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DETECTED PARAMETERS

MW-5A/AR																		Class GA Groundwater Standard (ppb) <sup>(3)</sup>	
Analyte <sup>(1)</sup>	June 2011	November 2011	July 2012	January 2013	August 2014 <sup>(6)</sup>	November 2014 <sup>(7)</sup>	February 2015	May 2015	August 2015	November 2015	February 2016	May 2016	August 2016	February 2017	August 2017	April 2020	March 2021	October 2021	
<b>Quarterly Sampling Parameters</b>																			
<b>Volatiles</b>																			
acetone	ND	ND	ND	ND	ND	440 <sup>(9)</sup>	407	77 <sup>(11)</sup>	110	ND	6.1	ND	ND	ND	ND	ND	ND	ND	50 <sup>(4)</sup>
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroethane	280	290	520	150	250 <sup>(9)</sup>	590 <sup>(9)(10)</sup>	1010	470 <sup>(11)</sup>	540 <sup>(11)</sup>	290 <sup>(11)</sup>	68	110	320 <sup>(11)</sup>	118	178	72.6	1.2	35	5
1,1-dichloroethane	650	1000	830	280	660 <sup>(9)</sup>	110	325	41	3.5	ND	ND	8.6	76	14.2	ND	7.4	ND	8.8	5
1,1-dichloroethene	ND	110 <sup>(2)</sup>	29 <sup>(2)</sup>	11 <sup>(2)</sup>	22	ND	8.62	1.9	ND	1.1	ND	ND	2.9	ND	ND	ND	ND	ND	5
cis-1,2 dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,4-dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.7	1 <sup>(15)</sup>
tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
toluene	ND	ND	ND	ND	ND	ND	ND	ND	2.8	2.6	ND	ND	1.4	ND	1.2	ND	ND	1.3	5
1,1,1-trichloroethane	890	3000	440	210	750 <sup>(9)</sup>	33	200	ND	ND	ND	ND	5.2	42	ND	ND	1.1	ND	2.1	5
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
vinyl chloride	ND	ND	15 <sup>(2)</sup>	ND	14	6 <sup>(2)(10)</sup>	3.59	2.4	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	2
2-butanone (MEK)	ND	ND	ND	ND	ND	190 <sup>(10)</sup>	82.1	4.5 <sup>(2)</sup>	ND	ND	8.6	ND	ND	ND	ND	ND	ND	ND	50 <sup>(4)</sup>
4-methyl-2-pentanone	ND	ND	ND	ND	ND	3 <sup>(2)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5 <sup>(5)</sup>
naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	2.7	2.2	ND	ND	1.8	ND	ND	ND	ND	ND	10 <sup>(4)</sup>
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1.5	1.4	ND	ND	1.4	ND	ND	ND	ND	ND	5
1,2,3 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 <sup>(4)</sup>
1,2,4 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4 trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	2.1	5.1	5.4	2.5	2.2	5.3	1.7	ND	ND	ND	ND	5
1,3,5 trimethylbenzene/P ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	1.4	ND	ND	ND	ND	ND	5
1,2,4,5 tetramethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	5 <sup>(4)</sup>
n-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 <sup>(13)</sup>	ND	ND	ND	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	1.1	1.2	1.3	ND	ND	1.7 <sup>(14)</sup>	1.2	ND	ND	ND	ND	5
1,4-diethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	5 <sup>(5)</sup>
1,2 dichloroethane	ND	ND	ND	ND	1 <sup>(2)</sup>	2 <sup>(2)</sup>	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	0.6
trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
<b>Wet Chemistry and Dissolved Metals</b>																			
sulfate	NA	NA	NA	NA	31,500	<5,000	<5,000	700 <sup>(2)</sup>	<5,000	<5,000	3,240	1,020 <sup>(2)</sup>	< 5,000	24,800	<5,000	NA	NA	NA	250,000
total organic carbon (TOC)	NA	NA	NA	NA	3,410	288,000	95,400	48,900	30,200	25,600	14,600	6,640	10,200	5,000	8,900	NA	NA	NA	NS
dissolved iron	NA	NA	NA	NA	ND	50,600	42,900	5,780	6,050	30,700	14,400	10,900	13,900	3,120	5,190	NA	NA	NA	as low as possible, NTE 500,000

NOTES:

- (1) All analyte values expressed as parts per billion ("ppb").
- (2) The analyte was "J" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.
- (3) Standard is identified in 6 NYCRR, Part 703.5, Table 1, Water Quality Standards Surface Waters and Groundwater.
- (4) Standard is not identified in 6 NYCRR, Part 703.5, Table 1. NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations has been used.
- (5) Analyte Standard does not exist in Part 703.5, Table 1. Analyte is identified in TOGS 1.1.1, Table 3 as unregulated, or is excluded within current regulations
- (6) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.
- (7) November 2014 sampling event reflects first post-bioremediation data.
- (8) The analyte was "B" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.
- (9) The analyte was "E" flagged, indicating that the concentration exceeded the calibration range of the laboratory instrument, and should be considered an estimate.
- (10) The analyte was "Z" flagged, indicating that it did not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.
- (11) The analyte was "D" flagged, indicating that the surrogate concentration was diluted outside the laboratory acceptance criteria.
- (12) The analyte was "U" flagged, indicating that the analyte was not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
- (13) The analyte was "cs" flagged, indicating that the calibration acceptability criteria was exceeded, and the value is estimated. The recovery is outside the limits for this analyte.
- (14) The recovery is outside the control limits for this analyte.
- (15) There is no class GA groundwater standard for this analytes. The Drinking water MCL is 1 ppb.

NA -Contaminant was not included for analysis during RFI.

A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.



TABLE 1b - MW-14

GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DETECTED PARAMETERS

MW-14																		Class GA Groundwater Standard (ppb) <sup>(3)</sup>		
Analyte <sup>(1)</sup>	June 2011	November 2011	July 2012	January 2013	August 2014 <sup>(6)</sup>	November 2014 <sup>(7)</sup>	February 2015	May 2015	August 2015	November 2015	February 2016	May 2016	August 2016	February 2017	August 2017	April 2020	March 2021	October 2021		
<b>Quarterly Sampling Parameters</b>																				
<b>Volatiles</b>																				
acetone	19	45	35	11	19 <sup>(9)</sup>	ND	27.3	16.0	12.0	12.0	12.0	8.2 <sup>(2)</sup>	15 <sup>(13)</sup>	ND	19.5	9.4	ND	ND	ND	50 <sup>(4)</sup>
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroethane	ND	ND	ND	ND	1 <sup>(2)</sup>	ND	ND	2.1	8.0	7.3	6.6	ND	8.9	3.1	4.4	ND	ND	ND	ND	5
chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	3.8	ND	ND	5
1,1-dichloroethane	86	79	67	53	47	1 <sup>(2)</sup>	43	48	31	22	16	26	12	28.3	5.7	18.7	6.1	15.1	5	
1,1-dichloroethene	5.2	3.1 <sup>(2)</sup>	4.6 <sup>(2)</sup>	2.7 <sup>(2)</sup>	3 <sup>(2)</sup>	2 <sup>(2)</sup>	3.51	3.1	3.6	3.5	1.7	2.3	3.7	2.4	1.8	1.9	1.4	1.9	1.9	5
cis-1,2 dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,4-dioxane	420	620	490	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	108	1 <sup>(5)</sup>	5
tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
vinyl chloride	5.2	4.6 <sup>(2)</sup>	2.3 <sup>(2)</sup>	2.1 <sup>(2)</sup>	3 <sup>(2)</sup>	2 <sup>(2)(10)</sup>	2.79	2.8	3.1	2.7	1.6	ND	3.1	2.5	1.5	1.6	1.3	ND	2	
2-butanone (MEK)	ND	ND	ND	ND	2 <sup>(2)</sup>	3 <sup>(2)(10)</sup>	ND	2.2 <sup>(2)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50 <sup>(4)</sup>
4-methyl-2-pentanone	ND	ND	ND	ND	1 <sup>(2)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5 <sup>(5)</sup>
naphthalene	ND	ND	ND	ND	2 <sup>(2)(8)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 <sup>(4)</sup>
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3 trichlorobenzene	ND	ND	ND	ND	2 <sup>(2)(8)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
hexachlorobutadiene	ND	ND	ND	ND	4 <sup>(2)(8)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 <sup>(4)</sup>
1,2,4 trichlorobenzene	ND	ND	ND	ND	1 <sup>(2)(8)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4 trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,3,5 trimethylbenzene/P ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
<b>Wet Chemistry and Dissolved Metals</b>																				
sulfate	NA	NA	NA	NA	14,900	25,700	31,200	31,000	<5,000	18,000	13,600	21,800	<5,000	<5,000	<5,000	NA	NA	NA	NA	250,000
total organic carbon (TOC)	NA	NA	NA	NA	4,150	45,900	35,800	39,800	50,300	47,400	40,200	35,400	96	1,500	44,400	NA	NA	NA	NA	NS
dissolved iron	NA	NA	NA	NA	6,130	16,200	8,410	9,130	9,920	19,500	21,900	12,500	35,000	8,800	30,700	NA	NA	NA	NA	as low as possible, NTE 500,000

NOTES:  
 (1) All analyte values expressed as parts per billion ("ppb").  
 (2) The analyte was "J" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.  
 (3) Standard is identified in 6 NYCRR, Part 703.5, Table 1, Water Quality Standards Surface Waters and Groundwater.  
 (4) Standard is not identified in 6 NYCRR, Part 703.5, Table 1. NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations has been used.  
 (5) Analyte Standard does not exist in Part 703.5, Table 1. Analyte is identified in TOGS 1.1.1, Table 3 as unregulated.  
 (6) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.  
 (7) November 2014 sampling event reflects first post-bioremediation data.  
 (8) The analyte was "B" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.  
 (9) The analyte was "E" flagged, indicating that the concentration exceeded the calibration range of the laboratory instrument, and should be considered an estimate.  
 (10) The analyte was "Z" flagged, indicating that it did not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.  
 (11) The analyte was "D" flagged, indicating that the surrogate concentration was diluted outside the laboratory acceptance criteria.  
 (12) The analyte was "U" flagged, indicating that the analyte was not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.  
 (13) the analyte was "c" flagged, indicating that the calibration acceptability criteria was exceeded for this analyte. The value is estimated.  
 NA -Contaminant was not included for analysis during RFI.  
 A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.

TABLE 1c - MW-16

GROUNDWATER MONITORING WELL SAMPLE LABORATORY ANALYTICAL DATA SUMMARY - DETECTED PARAMETERS

MW-16																	Class GA Groundwater Standard (ppb) <sup>(3)</sup>
Analyte <sup>(1)</sup>	June 2011	November 2011	July 2012	January 2013	August 2014 <sup>(6)</sup>	November 2014 <sup>(7)</sup>	February 2015	May 2015	August 2015	November 2015	February 2016	May 2016	August 2016	February 2017	August 2017	October 2021	
<b>Quarterly Sampling Parameters</b>																	
<b>Volatiles</b>																	
acetone	ND	ND	ND	ND	2 <sup>(2)(8)</sup>	ND	ND	4.6 <sup>(2)</sup>	ND	ND	ND	ND	ND	ND	ND	ND	50 <sup>(4)</sup>
chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	5
1,1-dichloroethane	17	7.9	33	14	14	19	7.18	14	73	8.4	5.2	ND	9.1	1.4	2.6	1.8	5
1,1-dichloroethene	3 <sup>(2)</sup>	2.4 <sup>(2)</sup>	8.7	5.6	7	9 <sup>(2)</sup>	1.73	5.6	33	4.2	1.8	ND	4.5	ND	ND	1.2	5
cis-1,2 dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	5
1,4-dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	1 <sup>(5)</sup>
tetrachloroethene	ND	ND	3.2 <sup>(2)</sup>	3.9 <sup>(2)</sup>	2 <sup>(2)</sup>	3 <sup>(2)(10)</sup>	1.42	2.2	11	4.5	2.5	1.3 <sup>(13)</sup>	2.4	1.4	ND	ND	5
toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-trichloroethane	ND	13	2.2 <sup>(2)</sup>	ND	1 <sup>(2)</sup>	2 <sup>(2)</sup>	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	5
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	1
vinyl chloride	ND	ND	ND	ND	ND	ND	ND	1	7.6	ND	ND	ND	ND	ND	ND	ND	2
2-butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50 <sup>(4)</sup>
4-methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<sup>(5)</sup>
naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 <sup>(4)</sup>
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,3 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 <sup>(4)</sup>
1,2,4 trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4 trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,3,5 trimethylbenzene/p ethyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2-dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
trichloroethene	ND	ND	ND	ND	ND	3 <sup>(2)</sup>	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	5
chloroform	ND	ND	ND	ND	ND	ND	1.85	4.9	ND	ND	ND	ND	ND	ND	ND	ND	7
<b>Wet Chemistry and Dissolved Metals</b>																	
sulfate	NA	NA	NA	NA	14,400	17,900	18,800	20,500	25,300	13,000	10,900	3,570 <sup>(2)</sup>	8,670	<5,000	6,400	NA	250,000
total organic carbon (TOC)	NA	NA	NA	NA	8,650	10,800	4,220	11,700	28,000	6,180	4,940	2,700	5,510	1,500	5,500	NA	NS
dissolved iron	NA	NA	NA	NA	ND	231	1,470	30.9 <sup>(2)</sup>	12.2 <sup>(2)</sup>	1,460	1,250	<100	310	220	433	NA	as low as possible, NTE 500,000

NOTES:

- (1) All analyte values expressed as parts per billion ("ppb").
  - (2) The analyte was "J" flagged, indicating that it was detected below the laboratory quantification limits, and should be considered estimated.
  - (3) Standard is identified in 6 NYCRR, Part 703.5, Table 1, Water Quality Standards Surface Waters and Groundwater.
  - (4) Standard is not identified in 6 NYCRR, Part 703.5, Table 1. NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations has been used.
  - (5) Analyte Standard does not exist in Part 703.5, Table 1. Analyte is identified in TOGS 1.1.1, Table 3 as unregulated.
  - (6) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.
  - (7) November 2014 sampling event reflects first post-bioremediation data.
  - (8) The analyte was "B" flagged, indicating that it was detected in the laboratory method blank, and should be considered estimated.
  - (9) The analyte was "E" flagged, indicating that the concentration exceeded the calibration range of the laboratory instrument, and should be considered an estimate.
  - (10) The analyte was "Z" flagged, indicating that it did not meet the variability criteria for the continuous calibration check (CCV) of 20%, and the value should be considered estimated.
  - (11) The analyte was "D" flagged, indicating that the surrogate concentration was diluted outside the laboratory acceptance criteria.
  - (12) The analyte was "U" flagged, indicating that the analyte was not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.
  - (13) The analyte was "c" flagged, indicating that the calibration acceptability criteria were exceeded, and the value should be considered estimated.
- NA -Contaminant was not included for analysis during RFI.  
A value identified in red indicates a concentration of the analyte in excess of the 6 NYCRR, Part 703.5 Table 1 standard or NYSDEC TOGS 1.1.1 guidance value.

**TABLE 2**

**GROUNDWATER MONITORING WELL SAMPLE FIELD DATA**

MW-5A/AR														
Analyte	August 2014 <sup>(4)</sup>	November 2014 <sup>(5)</sup>	February 2015	May 2015	August 2015	November 2015	February 2016	May 2016	August 2016	February 2017	August 2017	April 2020	March 2021	October 2021
dissolved oxygen <sup>(1)</sup>	1,150	1,860	1,910	910	300	500	1,500	2,200	2,470	3,120	3,170	3,170	3.36	2.86
pH <sup>(2)</sup>	7.66	7.07	6.74	6.43	6.61	6.63	6.43	6.90	6.84	6.64	7.2	7.2	7.02	6.77
redox <sup>(3)</sup>	-137	-90	-42	-73	-88	-44	-124	-62	-65	-73	-108	-58	188	-78
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.7

MW-14														
Analyte	August 2014 <sup>(4)</sup>	November 2014 <sup>(5)</sup>	February 2015	May 2015	August 2015	November 2015	February 2016	May 2016	August 2016	February 2017	August 2017	April 2020	March 2021	October 2021
dissolved oxygen <sup>(1)</sup>	1,940	2,110	1,720	1,280	1,100	700	2,700	2,010	2,410	3,160	2,970	2,520	8.19	5.61
pH <sup>(2)</sup>	7.19	7.41	6.98	6.58	6.68	6.65	6.45	6.91	6.59	6.47	6.84	6.85	6.83	6.76
redox <sup>(3)</sup>	7	-1	47	0	0	-7	-44	5	-78	24	-80	-29	-21	64
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108

MW-16												
Analyte	August 2014 <sup>(4)</sup>	November 2014 <sup>(5)</sup>	February 2015	May 2015	August 2015	November 2015	February 2016	May 2016	August 2016	February 2017	August 2017	October 2021
dissolved oxygen <sup>(1)</sup>	990	2,210	2,750	2,150	400	2,200	2,800	2,800	4,270	5,090	7,080	3.34
pH <sup>(2)</sup>	7.12	6.86	6.94	6.66	6.28	6.92	6.74	7.58	7.03	7.05	7.6	6.91
redox <sup>(3)</sup>	24	-14	12	151	49	48	45	73	31	96	29	87
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2

MW-CHA-RFI-7											
Analyte	August 2014 <sup>(4)</sup>	November 2014 <sup>(5)</sup>	February 2015	May 2015	August 2015	November 2015	February 2016	May 2016	August 2016	February 2017	August 2017
dissolved oxygen <sup>(1)</sup>	1,440	1,220	1,760	1,660	600	700	1,200	1,780	1,720	5,020	4,470
pH <sup>(2)</sup>	7.55	7.38	7.55	7.01	7.41	7.52	7.12	7.28	7.53	6.73	7.86
redox <sup>(3)</sup>	-36	-1	73	35	20	48	-90	31	-5	-48	-18

NOTES:

(1) Value expressed as parts per billion ("ppb").

(2) Value expressed as Standard Unit.

(3) Value expressed as milliVolts (mV).

(4) Sampling date of August 11, 2014, reflects pre-bioremediation injection date of August 13 and 14, 2014.

(5) November 2014 sampling event reflects first post-bioremediation data.