

IL SAMPLE DATA PACKAGE

The Sample Data Package shall include data for analyses of all samples in one Sample Delivery Group, including field samples, reanalyses, blanks, matrix spikes and matrix spike duplicates. The Sample Data Package consists of the following:

1. CASE NARRATIVE
2. TRAFFIC REPORTS
2. VOLATILES DATA
4. SEMIVOLATILES DATA
5. PESTICIDE / PCB DATA

CASE#: 20124 SOG#: 01 SAMP: _____

1. CASE NARRATIVE

This document shall be clearly labeled "Case Narrative" and shall contain: laboratory name; sample numbers in the Sample Delivery Group (SDG), differentiating between initial analyses and re-analyses; SDG number; Contract number; and detailed documentation of any quality control, sample, shipment and/or analytical problems encountered in processing the samples reported in the data package.

Whenever data from sample re-analyses are submitted, the Contractor shall state in the Case Narrative for each re-analysis, whether it considers the re-analysis to be billable, and if so, why.

The contractor must also include documentation of any internal quality control processes used, a summary of corrective actions taken, and the resolution.



COMPUCHEM
LABORATORIES, INC.

P.O. Box 12652 3306 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 548-8263

Style 9 Case Narrative #20124
Client-New York D.E.C.
Account #255501
CompuChem Laboratories, Inc.

SAMPLE IDENTIFICATIONS: 73800101, 73800102, 73800103, 73800104,
73800105, 73800106, 73800107, 73800108, 73800109, 73800110,
73800111, 73800112, 73800113, 738001TB1, 738001TB2

These samples were received in good condition with the proper chains-of-custody (COCs) on the dates May 8th, and May 9th, 1990. Analyses were scheduled in accordance with the COCs. Method 8240 3rd ED. TCL VOA analyses were performed as requested. The samples were logged into the Laboratory Management System and stored at 4 degrees Celsius.

VOLATILES:

The volatile fractions for this case were all analyzed within the prescribed holding time requirements. Target analytes were present in all the samples, in number from one(1) to ten(10) per analysis. The concentrations for the analytes ranged from below the contract required quantitation limit(CRQL), to well above. The more concentrated analytes were detected in sample 73800112, the original for the spike analyses. This sample was analyzed using 2000 microliters, instead of the customary 5000 microliters, due to significant concentrations of the xylene compounds.

QC SUMMARY

All surrogate recovery criteria were met for all the samples analyzed in this case. The spike duplicate data generated for the case passed QC requirements excellently, but with one exception. Benzene failed the relative percent difference criterion. The blanks associated with the samples also met the QC requirements. Concentrations of methylene chloride and/or acetone were present in the associated blanks, these occurrences were flagged accordingly with the "B" footnote.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Toney C. Spicell 5-30-90
TONEY C. SPICELL DATE 05/30/90
TECHNICAL REVIEWER



CASE NARRATIVE CASE #20124
SDG #02 CONTRACT # 255501
COMPUCHEM LABORATORIES, INC.

SAMPLE NUMBERS: 73800101 73800102 73800103 73800104
73800105 73800106 73800107 73800108
73800109 73800110 73800111 73800112
73800113

The samples listed above were received intact on 5-8-90 and 5-9-90. This narrative summarizes the analysis of these thirteen samples for semivolatiles by 8270 methodology.

SEMIVOLATILES:

All sample and QC fractions were initially extracted within holding times except for sample 73800112. For all samples which required reextraction, the reextraction could not be performed within holding times. Only in sample 73800112 was an analyte, aniline, detected at an amount above the detection limit. A dilution was necessary in order to report aniline within analytical range. The samples contained 1 to 25 tentatively identified compounds (TICs). All sample and QC fractions met the surrogate recovery criteria except for samples 73800102, 73800104, 73800106, 73800107, 73800109, and 73800113 which a matrix effect affecting the acid surrogates was confirmed via duplicate analyses. The matrix spike duplicates met all accuracy and precision criteria. All associated method blanks met all QC criteria.

NOTE: THE "X" FOOTNOTE DENOTES THE COELUTION OF INDISTINGUISHABLE ISOMERS.

NOTE: THIS DATA PACKAGE WAS PAGINATED FOR REFERENCE AND ACCOUNTABILITY IN DECREASING NUMERICAL SEQUENCE.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY PACKAGE AND IN THE COMPUTER-READABLE DATA SUBMITTED ON FLOPPY DISKETTE HAS BEEN AUTHORIZED BY THE LABORATORY



COMPUCHEM
LABORATORIES, INC.

P.O. Box 12652 3308 Chapel Hill / Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

MANAGER OR HIS DESIGNEE AS VERIFIED BY THE FOLLOWING
SIGNATURE.

ELISABETH ROBINS NOWELL
TECHNICAL REVIEWER
5-31-90

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METHOD REFERENCE

To determine the concentration of Volatile organic compounds in a variety of waste matrices, CompuChem® employs the methods stated in the RCRA Method 8240.

As a point of information, the Priority Pollutants analytes present on the enclosed compound list have been validated for Method 8240 as required by SW-846.

Method Summary

The volatile compounds are introduced to the gas chromatograph by the direct injection, or the Purge-and-Trap Method (RCRA Method 5030). The components are separated via the gas chromatograph and detected using a mass spectrometer which is used to provide both qualitative and quantitative information. The chromatographic conditions as well as typical mass spectrometer operating parameters are given in the RCRA Method 8240.

A library search is performed by automated comparison of the unknown peak spectrum to the National Institute of Standards and Technology (NIST, formerly the National Bureau of Standards) mass spectral library. Estimated concentration is calculated using the known concentration and peak area of the closest internal standard while assuming a response factor of one for the unknown compound.



DATA REPORTING QUALIFIERS

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed but not detected. The sample Quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330 \text{ U}) \times df}{D} \quad \text{Where } D = \frac{100 - \% \text{ Moisture}}{100}$$

and df = dilution factor

$$\text{At 24\% moisture, } D = \frac{100 - 24}{100} = 0.76$$

$$\frac{(330 \text{ U}) \times 10}{.76} = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For soil sample subjected to GCP clean-up procedures, the CRQL is also multiplied by 2, to account for the fact that only half of the extract is recovered.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/l, but a concentration of 3 ug/l is calculated, report it as 3J. The Sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 ug/l and a sample quantitation limit of 430 ug/kg, report the concentration as 300J on Form I.

DATA REPORTING QUALIFIERS - PAGE 2

- C** - This flag applies to pesticides results where the identification has been confirmed by GC/MS. Single Component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.
- B** - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E** - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- D** - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag.
- A** - This flag indicates that TIC is a suspected aldol-condensation product.
- X** - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative. If more than one is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample.



REPORTING ANOMALIES

There is an anomaly on the Volatile reporting form. The dilution factor is relative only to Semi-volatile extracts and is not used for Volatiles. Dilutions are indicated by the sample weight/volume section on the header.



QUALITY ASSURANCE NOTICE

CompuChem has implemented the use of the Finnigan QA Formaster Program (Format A) in order to automatically generate reporting and summary forms directly from our mainframe computers. These computers are networked directly to our GC/MS instrumentation. While initially employing the Finnigan product to provide the deliverable requirements in EPA's Contract Laboratory Program (CLP), CompuChem has expanded its usage for non-CLP GC/MS analyses. By utilizing this software program, the frequency of clerical errors is minimized while the process of report generation is expedited. We have not, however, eliminated any of our multi-tiered data review steps.

Independent from the generation of reporting and summary forms, quantitation reports are generated by each of our GC/MS instruments. They utilize CompuChem-developed software to calculate results. It has been determined that the algorithm used by the Formaster Program is slightly different than CompuChem's quantitation software routine. Therefore, results presented in any supportive data supplied with our deliverables packages may be slightly different than those which appear on the hard copy forms generated via Formaster. Any minor differences observed are certainly within the experimental error of the GC/MS technique.

Even though any observed differences are minor, our computer programmers will be modifying the in-house GC/MS quantitation software routine so that all data generated by it will be exactly the same as that generated by the Formaster program.

This notice serves to alert the end user of CompuChem data packages as to the reason why slight differences may be observed between reporting forms and supporting data supplied.

A handwritten signature in dark ink, appearing to read 'Robert E. Meierer', is written over a horizontal line.

Robert E. Meierer
Vice President of Quality Assurance

2. TRAFFIC REPORTS

A copy of the Sample Traffic Reports in Item A for all of the samples in the SDG. The Traffic Reports shall be arranged in increasing EPA number order, considering both letters and numbering in ordering samples.

CHAIN-OF-CUSTODY RECORD

Nº 005762

1751

337399, 337381, 337390, 337382

PROJECT NAME: PROJECT NUMBER: 73801
 SAMPLES SIGNATURE: Robert J. McNamee
 PRINTED NAME: Robert J. McNamee
 CLIENT ID (9 CHARACTERS):

1	2	3	4	5	6	7	8	9												
7	3	8	0	0	1	0	1													
7	3	8	0	0	1	0	2													

No. of Bottles/Vials: 624 (8240), 625 (8270)
 GC: TCL-VOA, TCL-SVOA
 Other: 601-8010, 602-8020, 608-8080, 8140, TCL PEST/PCB's, Herbicides
 INORGANICS: Metals, Cyanide, TAL Metals, Other: TOC, TOX
 OTHER: Oil & Grease, Pet. Hydro., Phenols
 MATRIX: Water/Soil

RECEIVED BY: *[Signature]* DATE/TIME: 5/19/00
 COMPANY NAME: NYDEC

RECEIVED BY: *[Signature]* DATE/TIME: 5/19/00
 COMPANY NAME: Federal Express

RECEIVED BY: *[Signature]* DATE/TIME: 5/19/00
 COMPANY NAME: NYDEC

RECEIVED BY: *[Signature]* DATE/TIME: 5/19/00
 COMPANY NAME: NYDEC

RECEIVED BY: *[Signature]* DATE/TIME: 5/19/00
 COMPANY NAME: NYDEC

SHIPPING INFORMATION:
 Number of Shipping Containers: *1*
 Method of Shipment: *Special Handling Requirements*
Special Handling Requirements
NYDEC

DATE: 5/19/00 TIME: 3:10

REMARKS: *partial set*

NYDEC RA090 0507 ORGANIC

CHAIN-OF-CUSTODY RECORD

No 005560

337391, 337383, 337396, 337385

PROJECT NAME:

PROJECT NUMBER: 738001

SAMPLERS/SIGNATURE:

[Signature]

PRINTED NAME:

Robert J McNamee

CLIENT ID (9 CHARACTERS)

1	2	3	4	5	6	7	8	9
7	3	8	0	0	1	0	3	
7	3	8	0	0	1	0	4	

#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/ Soil
	No. of Bottles/Vials				
	624-8240				
	625-8270				
	TCL-VOA				
	TCL-SVOA				
	Other:				
	601-8010				
	602-8020				
	608-8080				
	8140				
	TCL PEST/PCB's				
	Herbicides				
	Other:				
	Metals				
	Cyanide				
	TAL Metals				
	Other:				
	TOC				
	TOX				
	Oil & Grease				
	Pet. Hydro.				
	Phenols				

SAMPLING INFO	REMARKS
DATE: 5/19/90 TIME: 1410	

Special did not release for sufficient volume

RECEIVED BY	DATE/TIME	REFUSED BY	DATE/TIME	RECEIVED BY	DATE/TIME	REFUSED BY	DATE/TIME	RECEIVED BY	DATE/TIME	REFUSED BY	DATE/TIME
<i>[Signature]</i>	5/19/90										
COMPANY NAME: Federal Express		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:	

SHIPPING INFORMATION
Number of Shipping Containers:
Method of Shipment:
Special Handling Requirements:
10/17/90

CHAIN-OF-CUSTODY RECORD

Nº 005537

337290, 337386, 337391, 337393, 337397

PROJECT NAME: _____ PROJECT NUMBER: 738001

SAMPLERS SIGNATURE: *[Signature]*

PRINTED NAME: Robert J. McPherson

CLIENT ID (9 CHARACTERS)	No. of Bottles/Vials	GC/MS	GC	INORGANICS	OTHER	SAMPLING INFO		REMARKS
						DATE	TIME	
1								
2								
3	800102							partial set
7	800103							partial set
7	800103							trip blank
7	8001TB1							
<p>MATRIX: Water/Soil</p> <p>DATE: 9/19/13</p> <p>TIME: 1300</p>								

RECEIVED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
<i>[Signature]</i>	5/14	<i>[Signature]</i>	9:00 AM	<i>[Signature]</i>	5/14	<i>[Signature]</i>	9:00 AM	<i>[Signature]</i>	Special Handling Requirements				
COMPANY NAME: NYSD&E		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]					

SHIPPING INFORMATION
Number of Shipping Containers: _____
Method of Shipment: _____

CHAIN-OF-CUSTODY RECORD

N2 005504

PROJECT NAME:		PROJECT NUMBER: 738001		#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water / Soil	SAMPLING INFO	REMARKS	
SAMPLERS (SIGNATURE)		PRINTED NAME		No. of Bottles/Vials	624-8240	625-8270	TCL-VOA	TCL-SVOA	Other:	DATE	TIME	
ROBERT J. McNamee		ROBERT J. McNamee		601-8010	602-8020	608-8080	8140	TCL PEST/PCB's	Herbicides	4/20/15		
CLIENT ID (9 CHARACTERS)				Other:	601-8010	602-8020	608-8080	8140	TCL PEST/PCB's			
1	2	3	4	5	6	7	8	9				
7	3	8	0	0	1	1	3			337840		
										337850		
RELINQUISHED BY		Date/Time		RELINQUISHED BY		Date/Time		RELINQUISHED BY		Date/Time		<p>RECEIVED IN 9/1/15</p> <p>GOOD CONDITION</p> <p>SHIPPING INFORMATION</p> <p>Number of Shipping Containers</p> <p>Method of Shipment</p> <p>Special Handling Requirements</p>
COMPANY NAME		Date/Time		COMPANY NAME		Date/Time		COMPANY NAME		Date/Time		
RECEIVED BY		Date/Time		RECEIVED BY		Date/Time		RECEIVED BY		Date/Time		
COMPANY NAME		Date/Time		COMPANY NAME		Date/Time		COMPANY NAME		Date/Time		
RELINQUISHED BY		Date/Time		RELINQUISHED BY		Date/Time		RELINQUISHED BY		Date/Time		
COMPANY NAME		Date/Time		COMPANY NAME		Date/Time		COMPANY NAME		Date/Time		

CHAIN-OF-CUSTODY RECORD

№ 005529

PROJECT NAME:		PROJECT NUMBER: 738001		SAMPLERS: (SIGNATURE)		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		MATRIX: Water/Soil		SAMPLING INFO		REMARKS																																					
RECEIVED BY		DATE/TIME		COMPANY NAME		RELINQUISHED BY		DATE/TIME		COMPANY NAME		RECEIVED BY		DATE/TIME		COMPANY NAME		RELINQUISHED BY		DATE/TIME		COMPANY NAME		RELINQUISHED BY		DATE/TIME		COMPANY NAME																																	
[Signature]		5/19/90		Federal Express		[Signature]		73800110		5 VV		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:		601-8010		602-8020		608-8080		8140		TCL PEST/PCB's		Herbicides		Other:		Metals		Cyanide		TAL Metals		Other:		TOC		TOX		Oil & Grease		Pet. Hydro.		Phenols		DATE		TIME		337839		337849	
[Signature]		5/19/90		Federal Express		[Signature]		73800110		3 VV		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:		601-8010		602-8020		608-8080		8140		TCL PEST/PCB's		Herbicides		Other:		Metals		Cyanide		TAL Metals		Other:		TOC		TOX		Oil & Grease		Pet. Hydro.		Phenols		DATE		TIME		337838		337848	
[Signature]		5/19/90		Federal Express		[Signature]		73800110		3 VV		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:		601-8010		602-8020		608-8080		8140		TCL PEST/PCB's		Herbicides		Other:		Metals		Cyanide		TAL Metals		Other:		TOC		TOX		Oil & Grease		Pet. Hydro.		Phenols		DATE		TIME		337842		337842	

RECEIVED IN
GOOD CONDITION

CHAIN-OF-CUSTODY RECORD

N9 005506

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS SIGNATURES:		PRINTED NAME:		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		MATRIX: Water/Soil		SAMPLING INFO		REMARKS			
		73801		<i>[Signature]</i>		Robert J. McNamee		73800111		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:		DATE		TIME					
				<i>[Signature]</i>				73800112		1		✓								3/29/90		337846		Partial set			
RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:		SHIPPING INFORMATION		Number of Shipping Containers:	
<i>[Signature]</i>		3/29/90		<i>[Signature]</i>		3/29/90		<i>[Signature]</i>		3/29/90		<i>[Signature]</i>		3/29/90		<i>[Signature]</i>		3/29/90		<i>[Signature]</i>		3/29/90		Method of Shipment			
COMPANY NAME:		Date/Time:		COMPANY NAME:		Date/Time:		COMPANY NAME:		Date/Time:		COMPANY NAME:		Date/Time:		COMPANY NAME:		Date/Time:		COMPANY NAME:		Date/Time:		Special Handling Requirements			
Federal Express		3/29/90		Federal Express		3/29/90		Federal Express		3/29/90		Federal Express		3/29/90		Federal Express		3/29/90		Federal Express		3/29/90		Special Handling Requirements			

CHAIN-OF-CUSTODY RECORD

NO 005819

PROJECT NAME		PROJECT NUMBER		SAMPLERS (SIGNATURE)		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		MATRIX: Water/Soil		SAMPLING INFO		REMARKS	
		738001		<i>[Signature]</i>		Robert McNamee		738001MS		5162		624-8240 625-8270 TCL-VOA TCL-SVOA		601-8010 602-8020 608-8080 8140		TCL PEST/PCB's Herbicides		Other: Metals Cyanide TAL Metals		Other: TOC TOX Oil & Grease Pet. Hydro. Phenols		DATE TIME		IDUSED #7/1/90 7380011a	
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 5/1/90		RECEIVED BY: V. B. Smith		DATE/TIME: 5/1/90																		RECEIVED IN <i>o/s/1/90</i> GOOD CONDITION	
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 5/1/90		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 5/1/90																		SHIPPING INFORMATION Number of Shipping Containers: Method of Shipment:	
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 5/1/90		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 5/1/90																		Special Handling Requirements	

CHAIN-OF-CUSTODY RECORD

Nº 005101

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS-SIGNATURE:		PRINTED NAME:		CLIENT ID (9 CHARACTERS)		#		GC/MS		GC		INORGANICS		OTHER		SAMPLING INFO		REMARKS			
		73801		<i>[Signature]</i>		<i>[Signature]</i>		7380108		No. of Bottles/Vials		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:					
										601-8010		602-8020		608-8080		8140		TCL PEST/PCB's							
										Herbicides		Other:		Metals		Cyanide		TAL Metals							
										Other:		TOC		TOX		Oil & Grease		Pet. Hydro.		Phenols					
										MATRIX: Water/Soil		DATE		TIME											
												5/10/35		11:35											
												337844		337835								337845		RECEIVED IN ^{01/1/20} GOOD CONDITION	
																								SHIPPING INFORMATION Number of Shipping Containers - Method of Shipment	
																								Special Handling Requirements	

CHAIN-OF-CUSTODY RECORD

PROJECT NAME			PROJECT NUMBER			SAMPLERS SIGNATURE			PRINTED NAME			CLIENT ID (9 CHARACTERS)			#	GC/MS	GC	MORGANICS	OTHER	MATRIX: Water/Soil	SAMPLING INFO	REMARKS
									Robert J. McNamee			738001111			No. of Bottles/Vials					DATE	TIME	
														624-8240					5/8/90	1555		
														625-8270								
														TCL-VOA								
														TCL-SVOA								
														Other:								
														601-8010								
														602-8020								
														608-8080								
														8140								
														TCL PEST/PCB's								
														Herbicides								
														Other:								
														Metals								
														Cyanide								
														TAL Metals								
														Other:								
														TOC								
														TOX								
														Oil & Grease								
														Pet. Hydro.								
														Phenols								

337 BUB
337806
337876
337836
partial set
partial set

RECEIVED IN
GOOD CONDITION

SHIPPING INFORMATION
Number of Shipping Containers
Method of Shipment
Special Handling Requirements

CHAIN-OF-CUSTODY RECORD

NO 005098

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS (SIGNATURE)		PRINTED NAME		CLIENT ID (9 CHARACTERS)		#		GC/MS		GC		INORGANICS		OTHER		MATRIX: Water / Soil		SAMPLING INFO		REMARKS					
		738201		<i>[Signature]</i>		Robert J. McNamee				No. of Bottles/Vials		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:		DATE		TIME					
										601-8010		602-8020		608-8080		8140		TCL PEST/PCB's		Herbicides		Other:		337828					
										Metals		Cyanide		TAL Metals		Other:		TOC		TOX		Oil & Grease		Pet. Hydro.		337832			
										Phenols																337843			
																										337833		packaged set	
1	2	3	4	5	6	7	8	9																					
7	3	8	0	0	1	0	5																						
7	3	8	0	0	1	0	6																						

RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>
RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>
RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 5/8/90	COMPANY NAME: <i>[Signature]</i>

RECEIVED IN " " 5/8/90.
GOOD CONDITION

SHIPPING INFORMATION
Number of Shipping Containers:
Method of Shipment:

Special Handling Requirements:

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74-15-1 (7/87)-9a



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert McNamee</i>		TELEPHONE NUMBER: <i>0184573677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Comau Chem</i>		SAMPLING DATE: <i>5/19/90</i>	TIME: <i>1:25</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPOES Number _____ Outfall Number _____ Flow _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 73800109</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPOES)—Includes 2-8	<input type="checkbox"/> 2. Metals (SPOES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPOES)	
<input type="checkbox"/> 4. Acids (SPOES)	<input type="checkbox"/> 5. Base/Neutrals (SPOES)	<input type="checkbox"/> 6. Cyanide (SPOES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPOES)	<input type="checkbox"/> 8. PCBs only (SPOES)		
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 801—Water	<input type="checkbox"/> 11. USEPA 802—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 param + N&P		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—8240	<input checked="" type="checkbox"/> 29. BNA—8270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R5GB-01	<input type="checkbox"/> R5SR-01	<input type="checkbox"/> R5R1-01 (EP Toxicity-Metals only + R5RR-01)	
<input type="checkbox"/> R6GR-01	<input type="checkbox"/> R5RB-01	<input type="checkbox"/> R5RO-01	<input type="checkbox"/> R5SB-01 <input type="checkbox"/> R5RR-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

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PART 2

74-15-1 (7/87)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY <i>Robert McNamee</i>		TELEPHONE NUMBER: <i>984578677</i>	REGION NO: <i>3</i>
CONTRACT LAB: <i>Cumdu Chem</i>		SAMPLING DATE: <i>5/8/90</i>	TIME: <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM <i>1:40</i>
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPDES Number _____ Outfall Number _____ Flow _____ MGD _____			
DEC ID NUMBER (Contact Regional Code Custodian) <i>RA090 0507 73800110</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 param + N&P		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—E240	<input checked="" type="checkbox"/> 29. BNA—E270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R6GB-01	<input type="checkbox"/> R6SR-01	<input type="checkbox"/> R6R1-01 (EP Toxicity—Metals only + R6RR-01)	
<input type="checkbox"/> R6GR-01	<input type="checkbox"/> R6RB-01	<input type="checkbox"/> R6RO-01	<input type="checkbox"/> R6RS-01 <input type="checkbox"/> R6RR-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the laboratory with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

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PART 2

74-15-1 (7/87)-9a



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert McNamara</i>		TELEPHONE NUMBER: <i>518 457 8677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Compu Chem</i>		SAMPLING DATE: <i>5/8/90</i>	TIME: <i>3:40</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS.			
SPDES Number _____		Outfall Number _____ Flow _____ MGD _____	
DEPT. ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 7380012</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-5	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Bases/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water	
<input type="checkbox"/> 12. Std. WWTP. BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 parms + NAP		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. IALL—Water—INCLUDES 14-19	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—6240	<input checked="" type="checkbox"/> 29. BNA—6270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> RSGB-01 <input type="checkbox"/> RSGR-01 <input type="checkbox"/> RBR1-01 (EP Toxicity—Metals only + RRR-01)			
<input type="checkbox"/> RSGR-01 <input type="checkbox"/> RRRB-01 <input type="checkbox"/> RRR-01 <input type="checkbox"/> RRR-01			
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

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74-15-1 (787)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert J. McNamee</i>		TELEPHONE NUMBER: <i>518 451 5677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Compu Chem</i>		SAMPLING DATE: <i>5/18/90</i>	TIME: <i>3:40</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	

NEEDED FOR DIVISION OF WATER PROGRAMS:

SPDES Number _____ Outfall Number _____ Flow _____ MGD

DEC ID NUMBER (Contact Regional Code Custodian) *RA090 0507 7380145*

TYPE OF SAMPLE: Grab Composites Term _____ NS

SAMPLE MATRIX:

Air Soil/Sediment Groundwater Surface Water Wastewater Other (Specify) _____

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)

<input type="checkbox"/> 1. All (SPDES)—Includes 2-6	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES)
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)	
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water
<input type="checkbox"/> 12. Bat. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 parms + H&P	

CONTRACT LABORATORY PROTOCOLS

<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-16	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment

HAZARDOUS WASTES

<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—6240	<input checked="" type="checkbox"/> 29. BNA—6270

30. MUNICIPAL SLUDGE

<input type="checkbox"/> RSGB-01	<input type="checkbox"/> RSSR-01	<input type="checkbox"/> RSR1-01 (EP Toxicity-Metals only + RSRP-01)
<input type="checkbox"/> RSGR-01	<input type="checkbox"/> RSRB-01	<input type="checkbox"/> RSRD-01
	<input type="checkbox"/> RSSB-01	<input type="checkbox"/> RSRN-01
<input type="checkbox"/> 31. Other (Specify) _____		

Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.

CAUTION (check if applicable)

Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

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74-15-1 (7/87)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert Santamae</i>		TELEPHONE NUMBER: <i>518 457 9677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>CompuChem</i>		SAMPLING DATE: <i>5/8/90</i>	TIME: <i>1135</i> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPDES Number: _____ Outfall Number: _____ Flow: _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 73800108</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 601—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 parms + N&P		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base/Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—6240	<input checked="" type="checkbox"/> 29. BNA—6270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> RSG6-01	<input type="checkbox"/> RBR1-01	<input type="checkbox"/> RBR1-01 (EP Toxicity-Metals only + RBR1-01)	
<input type="checkbox"/> RSGR-01	<input type="checkbox"/> RBR6-01	<input type="checkbox"/> RSR0-01	<input type="checkbox"/> RBRB-01 <input type="checkbox"/> RBRR-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

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74-15-1 (7/87)-9a


 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert McNamee</i>		TELEPHONE NUMBER: <i>518 457 5677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Comau Chem</i>		SAMPLING DATE: <i>8/1/90</i>	TIME: <i>3:35</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS:			
SPDES Number: _____		Outfall Number: _____ Flow: _____ MGD	
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 7380011</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ his	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 824 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 16 parms + NBP		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analyte (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—8240	<input checked="" type="checkbox"/> 29. BNA—8270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R9GB-01	<input type="checkbox"/> R9SR-01	<input type="checkbox"/> R9RI-01 (EP Toxicity-Metals only + R9RR-01)	
<input type="checkbox"/> R9GR-01	<input type="checkbox"/> R9RE-01	<input type="checkbox"/> R9RO-01	<input type="checkbox"/> R9RB-01 <input type="checkbox"/> R9RR-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory—send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the laboratory with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

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74-15-1 (7/87) - 8a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTER BY: <i>Robert McNamee</i>		TELEPHONE NUMBER: <i>518 457 9077</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Compuchem</i>		SAMPLING DATE: <i>5/18/90</i>	TIME: <i>7:20</i> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS.			
SPDES Number _____ Outfall Number _____ Flow _____ MGD _____			
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 73800107</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSES			
<p>PRIORITY POLLUTANTS (Water Part 136)</p> <input type="checkbox"/> 1. All (SPDES)—includes 2-8 <input type="checkbox"/> 2. Metals (SPDES) <input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES) <input type="checkbox"/> 4. Acids (SPDES) <input type="checkbox"/> 5. Base/Neutrals (SPDES) <input type="checkbox"/> 6. Cyanide (SPDES) <input type="checkbox"/> 7. Pesticides/PCBs (SPDES) <input type="checkbox"/> 8. PCBs only (SPDES)			
<input type="checkbox"/> 9. USEPA 503.1—Water <input type="checkbox"/> 10. USEPA 601—Water <input type="checkbox"/> 11. USEPA 502—Water <input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH <input type="checkbox"/> 13. Extended WWTP 10 param + N&P			
<p>CONTRACT LABORATORY PROTOCOLS</p> <input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-16 <input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23 <input type="checkbox"/> 15. Inorganic—Water <input type="checkbox"/> 20. Inorganic—Soil/Sediment <input type="checkbox"/> 16. Base/Neutral Acids (BNA)—Water <input type="checkbox"/> 21. BNA—Soil/Sediment <input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water <input type="checkbox"/> 22. VOA—Soil/Sediment <input type="checkbox"/> 18. Pesticides/PCBs—Water <input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment			
<p>HAZARDOUS WASTES</p> <input type="checkbox"/> 24. EP Toxicity <input type="checkbox"/> 25. EP Toxicity (Metals Only) <input type="checkbox"/> 26. Ignitability <input type="checkbox"/> 27. Corrosivity <input checked="" type="checkbox"/> 28. VOA—8240 <input checked="" type="checkbox"/> 29. BNA—8270			
<p>30. MUNICIPAL SLUDGE</p> <input type="checkbox"/> RSGB-01 <input type="checkbox"/> RSGR-01 <input type="checkbox"/> RSR1-01 (EP Toxicity-Metals only + RGR-01) <input type="checkbox"/> RSGR-01 <input type="checkbox"/> RSRB-01 <input type="checkbox"/> RSRD-01 <input type="checkbox"/> RSSB-01 <input type="checkbox"/> RSR-01 <input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).			
<p>Place QA Label Here</p>			

74-15-1 (7/87)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert J. Denance</i>		TELEPHONE NUMBER: <i>518 457 9677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>CompuChem</i>		SAMPLING DATE: _____	TIME: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM
SAMPLING POINT: _____		COUNTY: _____	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPDES Number _____ Outfall Number _____ Flow _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 73800/TB2</i>		TYPE OF SAMPLE: <input type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Other (Specify) <i>Trip Blank</i>			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 501.1—Water	<input type="checkbox"/> 10. USEPA 501—Water	<input type="checkbox"/> 11. USEPA 502—Water	
<input type="checkbox"/> 12. Sta. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 param + N&P		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analyses (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—6240	<input type="checkbox"/> 29. BNA—6370	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> RSGS-01 <input type="checkbox"/> RBSR-01 <input type="checkbox"/> RBR1-01 (EP Toxicity-Metals only + RRR1-01)			
<input type="checkbox"/> RSGR-01 <input type="checkbox"/> RBR5-01 <input type="checkbox"/> RBR0-01 <input type="checkbox"/> RBSB-01 <input type="checkbox"/> RBR9-01			
<input type="checkbox"/> 31. Other (Specify) _____			
<p>For information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic materials.</p> </div> <p style="text-align: center;">Place QA Label Here</p>			

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: Robert McNamee		TELEPHONE NUMBER: 984575677	REGION NO. 0
CONTRACT LAB: Compu Chem		SAMPLING DATE: 5/8/90	TIME: 3:40 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: BPOES Number _____ Outfall Number _____ Flow _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): RA090 0507 738001MSD		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPOES)—Includes 2-9	<input type="checkbox"/> 2. Metals (SPOES)	<input type="checkbox"/> 3. Volatiles—USEPA 824 (SPOES)	
<input type="checkbox"/> 4. Acids (SPOES)	<input type="checkbox"/> 5. Base/Neutrals (SPOES)	<input type="checkbox"/> 6. Cyanide (SPOES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPOES)	<input type="checkbox"/> 8. PCBs only (SPOES)		
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 801—Water	<input type="checkbox"/> 11. USEPA 802—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 param. + NEL		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base/Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—8240	<input checked="" type="checkbox"/> 29. BNA—8270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R605-01	<input type="checkbox"/> R608-01	<input type="checkbox"/> R609-01 (EP Toxicity—Metals only + R608-01)	
<input type="checkbox"/> R308-01	<input type="checkbox"/> R615-01	<input type="checkbox"/> R610-01	<input type="checkbox"/> R606-01 <input type="checkbox"/> R607-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory should be sent to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

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74-15-1 (7/87)-9a



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <u>Robert McNamara</u>		TELEPHONE NUMBER: <u>5184578677</u>	REGION NO: <u>0</u>
CONTRACT NAME: <u>Compuchem</u>		SAMPLING DATE: <u>5/8/90</u>	TIME: <u>1045</u> AM <input type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPDES Number _____ Outfall Number _____ Flow _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): <u>RA090 0507 73800105</u>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> <u>Grb</u> <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 824 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 param + N&P		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—824	<input checked="" type="checkbox"/> 29. BNA—8270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R5GB-01	<input type="checkbox"/> R5BR-01	<input type="checkbox"/> R5R1-01 (EP Toxicity-Metals only + R5RR-01)	
<input type="checkbox"/> R5GR-01	<input type="checkbox"/> R5RB-01	<input type="checkbox"/> R5RD-01	<input type="checkbox"/> R5SB-01 <input type="checkbox"/> R5RR-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

74-15-1 (7/87)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert L. James</i>		TELEPHONE NUMBER: <i>518 457 5677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Comau Chem</i>		SAMPLING DATE: <i>5/8/90</i>	TIME: <i>3:55</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS:			
SPDES Number _____		Outfall Number _____ Flow _____ MGD _____	
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 73800113</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX:			
<input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—includes 2-8 <input type="checkbox"/> 2. Metals (SPDES) <input type="checkbox"/> 3. Volatiles—USEPA 824 (SPDES) <input type="checkbox"/> 4. Acids (SPDES) <input type="checkbox"/> 5. Base/Neutrals (SPDES) <input type="checkbox"/> 6. Cyanide (SPDES) <input type="checkbox"/> 7. Pesticides/PCBs (SPDES) <input type="checkbox"/> 8. PCBs only (SPDES)			
<input type="checkbox"/> 9. USEPA 503.1—Water <input type="checkbox"/> 10. USEPA 601—Water <input type="checkbox"/> 11. USEPA 602—Water <input type="checkbox"/> 12. Std. WWTP. BOD, COD, SOLIDS, pH <input type="checkbox"/> 13. Extended WWTP 10 parms + N&P			
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18 <input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23 <input type="checkbox"/> 15. Inorganic—Water <input type="checkbox"/> 20. Inorganic—Soil/Sediment <input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water <input type="checkbox"/> 21. BNA—Soil/Sediment <input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water <input type="checkbox"/> 22. VOA—Soil/Sediment <input type="checkbox"/> 18. Pesticides/PCBs—Water <input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment			
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity <input type="checkbox"/> 25. EP Toxicity (Metals Only) <input type="checkbox"/> 26. Ignitability <input type="checkbox"/> 27. Corrosivity <input checked="" type="checkbox"/> 28. VOA—8240 <input checked="" type="checkbox"/> 29. BNA—8270			
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> RSGB-01 <input type="checkbox"/> RSSR-01 <input type="checkbox"/> RSR1-01 (EP Toxicity-Metals only + RSSR-01) <input type="checkbox"/> RSGR-01 <input type="checkbox"/> RSRB-01 <input type="checkbox"/> RSPD-01 <input type="checkbox"/> RSSB-01 <input type="checkbox"/> RSSR-01 <input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 60 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor who will analyze the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

14-15-1 (7/87)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert McNamee</i>		TELEPHONE NUMBER: <i>518 457 5677</i>	REGION NO.: <i>0</i>
CONTRACT LAB: <i>Cornou Chem</i>		SAMPLING DATE: <i>May 7, 1990</i>	TIME: <i>1310</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS.			
SPDES Number _____		Outfall Number _____ Flow _____ VGD _____	
DEP ID NUMBER (Contact Regional Code Custodian) <i>RA090 0507 73800101</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ Trs _____	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 135)			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 824 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 803.1—Water	<input type="checkbox"/> 10. USEPA 801—Water	<input type="checkbox"/> 11. USEPA 802—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 parms + N&P		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—8240	<input checked="" type="checkbox"/> 29. BNA—8270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R828-01	<input type="checkbox"/> R88R-01	<input type="checkbox"/> R891-01 (EP Toxicity—Metals only + R89R-01)	
<input type="checkbox"/> R89R-01	<input type="checkbox"/> R89B-01	<input type="checkbox"/> R89Q-01	<input type="checkbox"/> R89B-01 <input type="checkbox"/> R89R-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory should be provided, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the laboratory with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

74-15-1 (7/87)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert Namee</i>		TELEPHONE NUMBER: <i>518 457 8677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>CompuChem</i>		SAMPLING DATE: <i>5/7/90</i>	TIME: <i>1:00</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPDES Number _____ Outfall Number _____ Flow _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 73800104</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 135)			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 503.1—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 parms + M&P		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18	<input type="checkbox"/> 19. (ALL) Soils/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soils/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soils/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soils/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soils/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—6240	<input checked="" type="checkbox"/> 29. BNA—6270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R5GB-01	<input type="checkbox"/> R5SR-01	<input type="checkbox"/> R5PM-01 (EP Toxicity—Metals only + R5PP-01)	
<input type="checkbox"/> R5GR-01	<input type="checkbox"/> R5RB-01	<input type="checkbox"/> R5RD-01	<input type="checkbox"/> R5SB-01 <input type="checkbox"/> R5RN-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p> </div> <p style="text-align: center;">Place QA Label Here</p>			

74-15-1 (7/87)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTER BY: <i>Robert James</i>		TELEPHONE NUMBER: <i>518 457 8677</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Compu Chem</i>		SAMPLING DATE: <i>5/7/90</i>	TIME: <i>1410</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPDES Number: _____ Outfall Number: _____ Flow: _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA 090 0507 1300103</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—includes 2-8	<input type="checkbox"/> 2. Metals (SPDES)	<input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES)	
<input type="checkbox"/> 4. Acids (SPDES)	<input type="checkbox"/> 5. Base/Neutrals (SPDES)	<input type="checkbox"/> 6. Cyanide (SPDES)	
<input type="checkbox"/> 7. Pesticides/PCBs (SPDES)	<input type="checkbox"/> 8. PCBs only (SPDES)		
<input type="checkbox"/> 9. USEPA 521-1—Water	<input type="checkbox"/> 10. USEPA 601—Water	<input type="checkbox"/> 11. USEPA 602—Water	
<input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH	<input type="checkbox"/> 13. Extended WWTP 10 param + NAP		
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-15	<input type="checkbox"/> 19. (ALL) Solids/Sediments—INCLUDES 19-23		
<input type="checkbox"/> 15. Inorganic—Water	<input type="checkbox"/> 20. Inorganic—Soil/Sediment		
<input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water	<input type="checkbox"/> 21. BNA—Soil/Sediment		
<input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water	<input type="checkbox"/> 22. VOA—Soil/Sediment		
<input type="checkbox"/> 18. Pesticides/PCBs—Water	<input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment		
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity	<input type="checkbox"/> 25. EP Toxicity (Metals Only)	<input type="checkbox"/> 26. Ignitability	
<input type="checkbox"/> 27. Corrosivity	<input checked="" type="checkbox"/> 28. VOA—6240	<input checked="" type="checkbox"/> 29. BNA—6270	
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> RSQB-01	<input type="checkbox"/> RSRB-01	<input type="checkbox"/> RSRP-01 (EP Toxicity—Metals only + RSRB-01)	
<input type="checkbox"/> RSGP-01	<input type="checkbox"/> RSRB-01	<input type="checkbox"/> RSRQ-01	<input type="checkbox"/> RSRB-01 <input type="checkbox"/> RSRP-01
<input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the contractor with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>			
Place QA Label Here			

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <i>Robert Estamee</i>		TELEPHONE NUMBER: <i>518 457 9677</i>	REGION NO.: <i>0</i>
CONTRACT LAB: <i>Compu Chem</i>		SAMPLING DATE: <i>May 7, 1990</i>	TIME: <i>1320</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS: SPDES Number _____ Outfall Number _____ Flow _____ MGD			
DEC ID NUMBER (Contact Regional Code Custodian): <i>RA090 0507 7380002</i>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Tern _____ hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136) <input type="checkbox"/> 1. All (SPDES)—includes 2-8 <input type="checkbox"/> 2. Metals (SPDES) <input type="checkbox"/> 3. Volatile—USEPA 624 (SPDES) <input type="checkbox"/> 4. Acids (SPDES) <input type="checkbox"/> 5. Base/Neutrals (SPDES) <input type="checkbox"/> 6. Cyanide (SPDES) <input type="checkbox"/> 7. Pesticides/PCBs (SPDES) <input type="checkbox"/> 8. PCBs only (SPDES)			
<input type="checkbox"/> 9. USEPA 603.1—Water <input type="checkbox"/> 10. USEPA 621—Water <input type="checkbox"/> 11. USEPA 622—Water <input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH <input type="checkbox"/> 13. Extended WWTP 10 param + RMP			
CONTRACT LABORATORY PROTOCOLS <input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-18 <input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23 <input type="checkbox"/> 15. Inorganic—Water <input type="checkbox"/> 20. Inorganic—Soil/Sediment <input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water <input type="checkbox"/> 21. BNA—Soil/Sediment <input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water <input type="checkbox"/> 22. VOA—Soil/Sediment <input type="checkbox"/> 18. Pesticides/PCBs—Water <input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment			
HAZARDOUS WASTES <input type="checkbox"/> 24. EP Toxicity <input type="checkbox"/> 25. EP Toxicity (Metals Only) <input type="checkbox"/> 26. Ignitability <input type="checkbox"/> 27. Corrosivity <input checked="" type="checkbox"/> 28. VOA—6240 <input checked="" type="checkbox"/> 29. BNA—6270			
30. MUNICIPAL SLUDGE <input type="checkbox"/> RSGB-01 <input type="checkbox"/> RSBR-01 <input type="checkbox"/> RSPH-01 (EP Toxicity—Metals only + RSBR-01) <input type="checkbox"/> RSGR-01 <input type="checkbox"/> RSRB-01 <input type="checkbox"/> RSPQ-01 <input type="checkbox"/> RSUB-01 <input type="checkbox"/> RSRR-01 <input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the laboratory with the sample. Retain Part 3 for your record.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p> </div> <p style="text-align: center;">Place QA Label Here</p>			

74-15.1 (7/87) - 8a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

SUBMITTED BY: <u>Robert McNamee</u>		TELEPHONE NUMBER: <u>518 457 5677</u>	REGION NO: <u>0</u>
CONTRACT LAB: <u>CompuChem</u>		SAMPLING DATE: <u>5-3-90 TB</u>	TIME: <input type="checkbox"/> AM <input type="checkbox"/> PM
SAMPLING POINT:		COUNTY:	
NEEDED FOR DIVISION OF WATER PROGRAMS:			
SPDES Number _____ Outfall Number _____ Flow _____ MGD _____			
DEC ID NUMBER (Contact Regional Code Custodian): <u>RA090 0507 73801161</u>		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite Term _____ hrs	
SAMPLE MATRIX:			
<input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Other (Specify) <u>TRIP BLANK</u>			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)			
<input type="checkbox"/> 1. All (SPDES)—includes 2-8 <input type="checkbox"/> 2. Metals (SPDES) <input type="checkbox"/> 3. Volatiles—USEPA 624 (SPDES) <input type="checkbox"/> 4. Acids (SPDES) <input type="checkbox"/> 5. Base/Neutrals (SPDES) <input type="checkbox"/> 6. Cyanide (SPDES) <input type="checkbox"/> 7. Pesticides/PCBs (SPDES) <input type="checkbox"/> 8. PCBs only (SPDES)			
<input type="checkbox"/> 9. USEPA 603.1—Water <input type="checkbox"/> 10. USEPA 601—Water <input type="checkbox"/> 11. USEPA 602—Water <input type="checkbox"/> 12. Std. WWTP, BOD, COD, SOLIDS, pH <input type="checkbox"/> 13. Extended WWTP 10 param + N&P			
CONTRACT LABORATORY PROTOCOLS			
<input type="checkbox"/> 14. (ALL)—Water—INCLUDES 14-16 <input type="checkbox"/> 19. (ALL) Soil/Sediments—INCLUDES 19-23 <input type="checkbox"/> 15. Inorganic—Water <input type="checkbox"/> 20. Inorganic—Soil/Sediment <input type="checkbox"/> 16. Base Neutral Acids (BNA)—Water <input type="checkbox"/> 21. BNA—Soil/Sediment <input type="checkbox"/> 17. Volatile Organic Analysis (VOA)—Water <input type="checkbox"/> 22. VOA—Soil/Sediment <input type="checkbox"/> 18. Pesticides/PCBs—Water <input type="checkbox"/> 23. Pesticides/PCBs—Soil/Sediment			
HAZARDOUS WASTES			
<input type="checkbox"/> 24. EP Toxicity <input type="checkbox"/> 25. EP Toxicity (Metals Only) <input type="checkbox"/> 26. Ignitability <input type="checkbox"/> 27. Corrosivity <input checked="" type="checkbox"/> 28. VOA—6240 <input type="checkbox"/> 29. BNA—6270			
30. MUNICIPAL SLUDGE			
<input type="checkbox"/> R5GB-01 <input type="checkbox"/> R5SR-01 <input type="checkbox"/> R5R1-01 (EP Toxicity-Metals only + R5RR-01) <input type="checkbox"/> R5GR-01 <input type="checkbox"/> R5RE-01 <input type="checkbox"/> R5RO-01 <input type="checkbox"/> R5GB-01 <input type="checkbox"/> R5RR-01 <input type="checkbox"/> 31. Other (Specify) _____			
<p>Information for each sample submitted to a contract laboratory, send Part 1 of this form to New York State Department of Environmental Conservation, 50 Wolf Road, Room 317, Albany, New York 12242. Telephone: (518) 457-7470. Send Part 2 of this form to the laboratory with the sample. Retain Part 3 for your record.</p>			
<p>CAUTION (check if applicable)</p> <input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).			
Place QA Label Here			

3. VOLATILES DATA

A. QC SUMMARY

B. SAMPLE DATA

C. STANDARDS DATA

D. RAW QC DATA

CASE#: 20124 SDG#: 01 SAS#: _____

A. QC SUMMARY

- (1) Surrogate Percent Recovery Summary (Form II VOA)
- (2) Matrix Spike / Matrix Spike Duplicate Summary (Form III VOA)
- (3) Method Blank Summary (Form IV VOA)

(If more than a single form is necessary , forms must be arranged in chronological order by date of analysis of the blank)

- (4) GC / MS Tuning and Mass Calibration (Form V VOA)

BFB in chronological order ; by instrument

- (5) Internal Standard Area Summary (Form VIII VOA)

In chronological order ; by instrument

(1) Surrogate Percent Recovery Summary (Form II VOA)



2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	73800101	101	96	83		0
02	73800102	102	100	110		0
03	73800103	107	104	109		0
04	73800104	93	94	101		0
05	73800105	98	94	110		0
06	73800106	95	91	90		0
07	73800107	106	90	101		0
08	73800108	97	94	85		0
09	73800109	101	100	92		0
10	73800110	91	87	87		0
11	73800111	89	86	86		0
12	73800112	92	98	99		0
13	73800113	100	101	105		0
14	738001TB1	97	96	90		0
15	738001TB2	97	94	85		0
16	73800112MS	92	95	98		0
17	73800112MSD	98	96	109		0
18	VBLKPQ	103	103	97		0
19	VBLKPU	88	86	86		0
20	VBLKOH	91	87	78		0

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)
 S2 (BFB) = Bromofluorobenzene (86-115)
 S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogates diluted out

(2) Matrix Spike / Matrix Spike Duplicate Summary (Form III VOA)

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix Spike - EPA Sample No.: 73800112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	19.4	79	61-145
Trichloroethene	50.0	0	48.3	97	71-120
Benzene	50.0	31.6	76.7	90	76-127
Toluene	50.0	11.4	55.7	89	76-125
Chlorobenzene	50.0	7.20	57.5	101	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	50.0	41.2	82	-4	14 61-145
Trichloroethene	50.0	47.5	95	2	14 71-120
Benzene	50.0	82.9	103	-13 *	11 76-127
Toluene	50.0	58.8	95	-7	13 76-125
Chlorobenzene	50.0	55.6	97	4	13 75-130

Column to be used to flag recovery and RPD values with an asterisk

* Value outside of QC limits

RPD: 1 out of 5 outside limits
 Spike Recovery: 0 out of 10 outside limits

COMMENTS: CLP , 2012, 4, 73800112, LOW, WATER, 307837, VOLATILE, EPA, CAP, CT900515B19, BF900515A19, , , ,

(3) Method Blank Summary (Form IV VOA)

(If more than a single form is necessary, forms must be arranged in chronological order by date of analysis of the blank)

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID: CB900515C19 Lab Sample ID: VBLKPO
 Date Analyzed: 05/15/90 Time Analyzed: 0415
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: 19

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	73800102	337390	CN037390A19	0828
02	73800103	337391	CH037391A19	0858
03	73800104	337392	CN037392A19	0934
04	73800105	337832	CN037832A19	1014
05	73800106	337833	CN037833A19	1059
06	73800107	337834	CN037834A19	1141
07	73800108	337835	CN037835A19	1208
08	73800111	337836	CN037836A19	1314
09	738001TB1	337377	CH037377C19	0651

COMMENTS: CLP , 2012, 4, , LOW, , 000000, VOLATILE, BLANK,
 CAP, CS900515C19, BF900515C19, , ,

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID: CB900515B19 Lab Sample ID: VBLKPU
 Date Analyzed: 05/15/90 Time Analyzed: 1853
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: 19

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	73800112	337837	C2R37837C19	0113
02	73800113	337840	CN037840B19	2345
03	73800112MS	337378	CN037378C19	0151
04	73800112MSD	337379	CN037379C19	0237

COMMENTS: CLP , , , , LOW, , 000000, VOLATILE, BLANK,
 CAP, CT900515B19, BF900515A19, , , ,

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMFU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID: CB900518A19 Lab Sample ID: VBLKOH
 Date Analyzed: 05/18/90 Time Analyzed: 1930
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: 19

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	73800101	337389	CR037389819	2202
02	73800109	337819	CR037839A19	2024
03	73800110	337838	CR037838B19	2050
04	738001TB2	337841	CN037841B19	2131

COMMENTS: CLP ,2012,4, ,LOW, ,000000,VOLATILE,BLANK,
 CAP, CW900518A19,BH900518A19, , , ,

(4) GC / MS Tuning and Mass Calibration (Form V VOA)

BFB in chronological order ; by instrument

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID: BF900508C19 BFB Injection Date: 05/08/90
 Instrument ID: 19 BFB Injection Time: 0059
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	53.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	70.3
175	5.0 - 9.0% of mass 174	4.9 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.5 (97.4)1
177	5.0 - 9.0% of mass 176	5.6 (8.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020		CS900508C19	05/08/90	0118
02	VSTD050		CT900508C19	05/08/90	0207
03	VSTD100		CU900508C19	05/08/90	0240
04	VSTD150		CV900508C19	05/08/90	0303
05	VSTD200		CW900508C19	05/08/90	0400

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMFU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID: BF900515C19 BFB Injection Date: 05/15/90
 Instrument ID: 19 BFB Injection Time: 0304
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	55.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	97.4
175	5.0 - 9.0% of mass 174	6.2 (6.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	97.4 (100.0)1
177	5.0 - 9.0% of mass 176	6.0 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MB, MSO, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CS900515C19	05/15/90	0340
02	VBLKPQ	VBLKPQ	CB900515C19	05/15/90	0415
03	738001TB1	337377	CN037377C19	05/15/90	0651
04	73800102	337390	CN037390A19	05/15/90	0828
05	738DD103	337391	CN037391A19	05/15/90	0858
06	73800104	337392	CN037392A19	05/15/90	0934
07	73800105	337832	CN037832A19	05/15/90	1014
08	73800106	337833	CN037833A19	05/15/90	1059
09	73800107	337834	CN037834A19	05/15/90	1141
10	73800108	337835	CN037835A19	05/15/90	1208
11	73800111	337836	CN037836A19	05/15/90	1314

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Cass No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID: BF900515A19 BFB Injection Date: 05/15/90
 Instrument ID: 19 BFB Injection Time: 1457
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.9
75	30.0 - 60.0% of mass 95	56.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	95.3
175	5.0 - 9.0% of mass 174	6.7 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.0 (95.5)1
177	5.0 - 9.0% of mass 176	5.3 (5.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBTD050		CT900515B19	05/15/90	1757
02	VBLKPU	VBLKPU	CB900515B19	05/15/90	1853
03	73800113	337840	CN037840B19	05/15/90	2145
04	73800112	337837	C2R37837C19	05/16/90	0113
05	73B00112MS	337378	CN037378C19	05/16/90	0151
06	73800112MSD	337379	CN037379C19	05/16/90	0237

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID: BH900518A19 BFB Injection Date: 05/18/90
 Instrument ID: 19 BFB Injection Time: 1455
 Matrix: (coil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	51.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	88.0
175	5.0 - 9.0% of mass 174	6.6 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	85.9 (97.6)1
177	5.0 - 9.0% of mass 176	5.6 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CW900518A19	05/18/90	1810
02	VBLKOH	VBLKOH	CB900518A19	05/18/90	1930
03	73800109	337839	CR017B39A19	05/18/90	2024
04	73800110	337838	CR037838B19	05/18/90	2050
05	738001TB2	337841	CN037841B19	05/18/90	2131
06	73800101	337389	CR017389B19	05/18/90	2202

(5) Internal Standard Area Summary (Form VIII YDA)

in chronological order; by instrument

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID (Standard): CS900515C19 Date Analyzed: 05/15/90
 Instrument ID: 19 Time Analyzed: 0140
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA †	RT	IS2 (DFB) AREA †	RT	IS3 (CBZ) AREA †	RT
12 HOUR STD	49400	3.10	199000	4.75	134000	9.40
UPPER LIMIT	98800		398000		268000	
LOWER LIMIT	24700		99500		67000	
EPA SAMPLE NO.						
01 73800102	46200	3.07	190000	4.72	121000	9.39
02 73800103	42500	3.08	170000	4.73	116000	9.40
03 73800104	42900	3.10	183000	4.73	121000	9.39
04 73800105	42900	3.07	189000	4.68	120000	9.34
05 73800106	46200	3.07	184000	4.68	124000	9.34
06 73800107	46700	3.07	190000	4.68	122000	9.35
07 73800108	43100	3.05	175000	4.65	122000	9.34
08 73800111	45000	3.07	185000	4.70	129000	9.35
09 738001TB1	44100	3.10	181000	4.73	126000	9.35
10 VBLKPG	45600	3.10	180000	4.73	121000	9.39

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

† Column used to flag internal standard area values with an asterisk

BA
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID (Standard): CW900518A19 Date Analyzed: 05/18/90
 Instrument ID: 19 Time Analyzed: 1810
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA ‡	RT	IS2 (DFB) AREA ‡	RT	IS3 (CB2) AREA ‡	RT
12 HOUR STD	106000	3.08	514000	4.63	333000	9.25
UPPER LIMIT	212000		1028000		666000	
LOWER LIMIT	53000		257000		166500	
EPA SAMPLE NO.						
01 73800101	83300	3.10	403000	4.65	263000	9.30
02 73800109	90400	3.10	463000	4.68	287000	9.32
03 73800110	101000	3.08	520000	4.65	319000	9.30
04 738001TB2	93100	3.10	509000	4.65	300000	9.32
05 VBLKON	117000	3.10	540000	4.68	342000	9.30

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CB2) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

‡ Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID (Standard): CT900515B19 Date Analyzed: 05/15/90
 Instrument ID: 19 Time Analyzed: 1757
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	50600	3.10	198000	4.72	137000	9.37
UPPER LIMIT	101200		396000		274000	
LOWER LIMIT	25300		99000		68500	
EPA SAMPLE NO.						
01 73800112	47900	3.05	190000	4.70	136000	9.40
02 73800113	40600	12.55	157000	19.05	117000	37.82
03 73800112MS	47700	3.08	190000	4.73	140000	9.40
04 73800112MSD	51000	3.10	206000	4.75	146000	9.42
05 VBLKPU	53300	3.10	211000	4.70	141000	9.35

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

B. SAMPLE DATA

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I VOA, including Form I VOA - TIC), followed by the raw data for volatile samples. These sample packets should then be placed in increasing EPA number order, considering both letters and numbers in ordering samples.

- TCL Results - Organic Analysis Data Sheet (Form I VOA). Tabulated results (identification and quantization) of the specified target compounds (Exhibit C).
- Tentatively Identified Compounds (Form I VOA - TIC). This form must be included even if no compounds are found. If so, indicate this on the form by entering "0" in the field for "Number Found".
- Reconstructed total ion chromatograms (TIC) for each sample, sample extract, standard, blank and spiked sample.
- For each sample, by each compound identified.
 - (a) Copies of raw spectra and copies of background - subtracted mass spectra of target compounds listed in Exhibit C (TCL) that are identified in the sample and corresponding background - subtracted TCL standard mass spectra. Compound names must be clearly marked on all spectra.
 - (b) Copies of mass spectra of non-target organic compounds not listed in Exhibit C (TCL) (Tentatively Identified Compounds) which associated best - match spectra (three best matches).

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800101

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337389

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR037389B19

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/19/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	18	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800101

Lab Name: COMPUCHEM LABS Contract: 255501
Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
Matrix: (soil/water) WATER Lab Sample ID: 337389
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR037389B19
Level: (low/med) LOW Date Received: 05/08/90
% Moisture: not dec. _____ Date Analyzed: 05/18/90
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

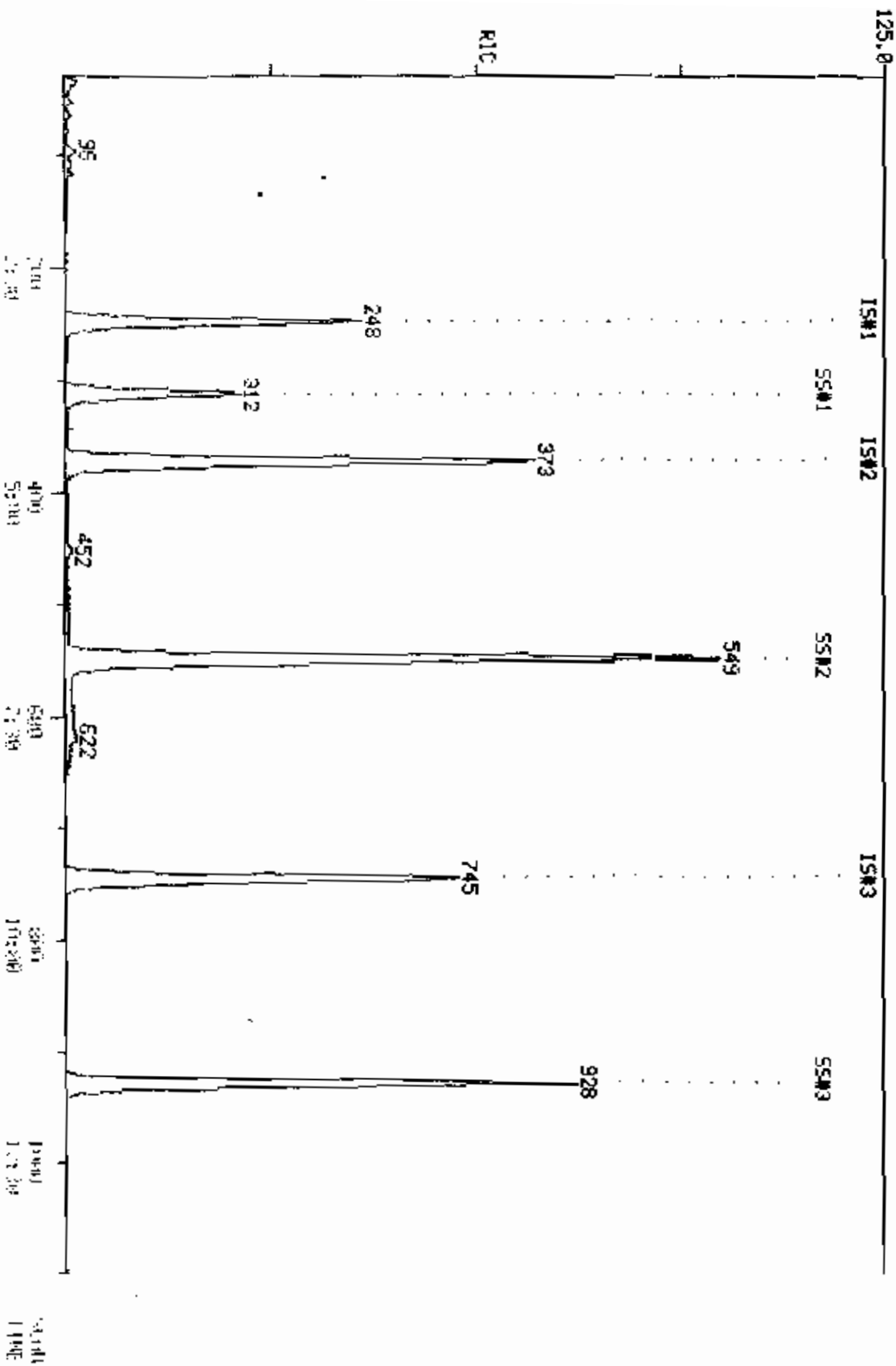
1/87 Rev.

COMPUchem LABS

COMPUchem DATA 09:07:2009:19 SCANS 00 TO 1100

R1C
05/18/90 22:02:00
SAMPLE: 57L CCS 337189 ID# 73889101 CS# 20124 QN #13
COND5.:

194240.



QUANTITATION REPORT FILE: CRO37389B19
 DATA: CRO37389B19.TI ✓
 05/18/90 22:02:00 ✓
 SAMPLE: 5ML CCG 3372B9 ID# 73800101 CS# 20124 ON #19
 CONDS.:
 SUBMITTED BY: 19 ³ _{5/14/90} ANALYST: 1009 ✓

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 #REF. FAC. FROM LIBRARY ENTRY ✓

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*27D D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	#247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	#233 D6-TOLUENE WE#59 SS#2

NO	H/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	248	3:06	1	1.000	A 88	63253.	50.000 UG/L	15.24
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	ZTOT
2	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	96	1:12	1	0.387	A BU	11984.	18.231 UG/L	5.92
9	114	373	4:40	9	1.000	A BB	403195.	50.000 UG/L	16.24
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	745	9:19	21	1.000	A BB	263032.	50.000 UG/L	16.24
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	312	3:34	1	1.258	A BB	126637.	41.611 UG/L	13.51
41	95	928	11:36	21	1.246	A BB	180230.	47.768 UG/L	15.51
42	98	549	6:52	21	0.737	A BB	459725.	50.378 UG/L	16.36

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:05	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:31		10.000			50.00		0.485	
3	0:34		10.000			50.00		0.624	
4	0:38		10.000			50.00		1.306	
5	0:42		10.000			50.00		0.899	
6	1:04		5.000			50.00		1.407	
7	1:08		5.000			50.00		3.508	
8	1:12	1.00	10.000	0.04	18.23	50.00	0.144	0.395	0.36
9	4:38	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:28		5.000			50.00		1.154	
11	1:41		5.000			50.00		1.195	
12	2:07		5.000			50.00		1.738	
13	2:19		10.000			50.00		0.305	
14	2:49		5.000			50.00		1.171	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	2:58		10.000			50.00		0.061	
16	3:20		5.000			50.00		2.644	
17	3:21		5.000			50.00		0.589	
18	3:32		5.000			50.00		0.619	
19	3:52		5.000			50.00		0.579	
20	4:01		5.000			50.00		1.875	
21	9:15	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:52		5.000			50.00		0.461	
23	5:12		5.000			50.00		0.273	
24	5:48		5.000			50.00		0.701	
25	6:31		5.000			50.00		0.707	
26	6:58		15.000			50.00		0.533	
27	6:55		5.000			50.00		1.061	
28	7:34		5.000			50.00		0.325	
29	7:48		5.000			50.00		0.218	
30	7:43		5.000			50.00		0.615	
31	8:27		15.000			50.00		0.128	
32	8:22		5.000			50.00		0.422	
33	9:17		5.000			50.00		0.885	
34	9:37		5.000			50.00		0.408	
35	9:52		5.000			50.00		0.578	
36	10:32		5.000			50.00		0.578	
37	10:37		5.000			50.00		1.005	
38	10:52		5.000			50.00		0.250	
39	12:10		5.000			50.00		0.347	
40	3:54	1.00	5.000	0.25	41.61	50.00	1.521	1.828	0.83
41	11:31	1.01	5.000	0.25	47.77	50.00	0.685	0.717	0.96
42	6:49	1.01	5.000	0.15	50.38	50.00	1.748	1.735	1.01

Lab Instructions:

Receipt Date:

Case#: 20124

SAS#

CompuChem#: 337389R

GC/MS; VOA; WATER; EPA SOW 2/88

8240

Sample Prep Code---000

Instrument Code---412

Compound List-----493

Surrogate Std-----394

Internal Std-----036

SDG/

EPA ID# 73800101

GC/MS Analysis WELL1

Amount Purged: [] 5.0 mL or [] Dilution _____ uL / 5.0 mL

Internal Standard Volume Added 5 uL

Surrogate Standard Volume Added 5 uL

BFB Filename: B19MS18.B19

Blank Filename: CB9MS18.B19

Standard Filename: CG9MS18.B19

Sample Filename: CRO37389.B19

RECEIVED
MAY 21 1990

Analyte(s) Injection: 1009 M Work-up 1009 M

GC/MS Review

Condition Codes

JA

Entry Codes: OK, EA, ES, SM, JS, SL, SH, JA, DA

Non-entry codes: IM, IL, SW, CT, CS, VC, VO, UP, PC, NR, IP, LA, DI, OT, SP, SI, CO, RM, DW

Extraneous Peak Search Results:

Disposition

Number of Peaks Found: 0

[] Complete

Quality Assurance Notice(s):

[] Reinject Neat

Number of Notices Required: 1

[] Dilute

Comments:

GC/MS Review DLA Date 5/19/90 Auditor _____ Date ___/___/___

Report Integration

Final Reportable Package(s): CRO-B19 Total # of Injections 2

QA Comments:

Initials _____ Date ___/___/___

Final Review

Initials _____ Date ___/___/___

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

LINE #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	248	83300	50.0		
231	50	CHLOROMETHANE				BDL	10
230	62	VINYL CHLORIDE				BDL	10
229	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
215	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			15.2	18.3	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	373	403000	50.0		
222	54	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
237	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	80	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	05-CHLOROBENZENE (IS)	745	263000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
235	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
230	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			41.6	83.2	
247	95 S	BROMOFLUOROBENZENE			47.8	96.7	
233	98 S	D8-TOLUENE WE#59 SS#2			50.4	101.2	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY C. K. Stult
(GC/MS DATA REVIEWER)

DATE 5-19-98

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

IMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
259	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
	3979.		1366	749300.	308.0		18.

CORRECTED/REVIEWED BY

E. K. [Signature]

(GC/MS DATA REVIEWER)

DATE

5.19.92

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	25B	D4-1,2-DICHLOROETHANE WE#57	41.6	50.0	83.	76-114	X	
41	247	BROMOFLUOROBENZENE	47.8	50.0	96.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	50.4	50.0	101.	88-110	X	

* ADVISORY SURROGATE ONLY

** % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL

5.000 ML

----- = 1.00 = -----

5000. (UL)

5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.-----
VERSION 9CORRECTED/REVIEWED BY *C. J. [Signature]*
(GC/MS DATA REVIEWER)DATE 5-18-90

QUALITY ASSURANCE NOTICE

CompuChem # 237389

Blank ID # C6900518419

Case 20129

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8248" and "Semi-volatile Analysis by GC/MS--Method 8278." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organic Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Acetone</u>	<u>12</u>	<u>ug/L</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/kg acetone may not exceed 80 ug/kg. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Littlehead
Manager, Quality Assurance

C44295
6-1028

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800102

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337390

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037390A19

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	9	J
75-00-3	Chloroethane	7	J
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethane	5	U
75-34-3	1,1-Dichloroethane	4	J
540-59-0	1,2-Dichloroethane (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800102

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMFU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337390
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN017390A19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/15/90
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 4 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	0.27	75	J
2.	LABORATORY ARTIFACT	0.43	2.0	J
3. 60-29-7	ETHANE, 1, 1'-OXYBIS-	0.95	100	J
4. 109-87-5	METHANE, DIMETHOXY-	1.13	7.0	J

FORM I VOA-TIC

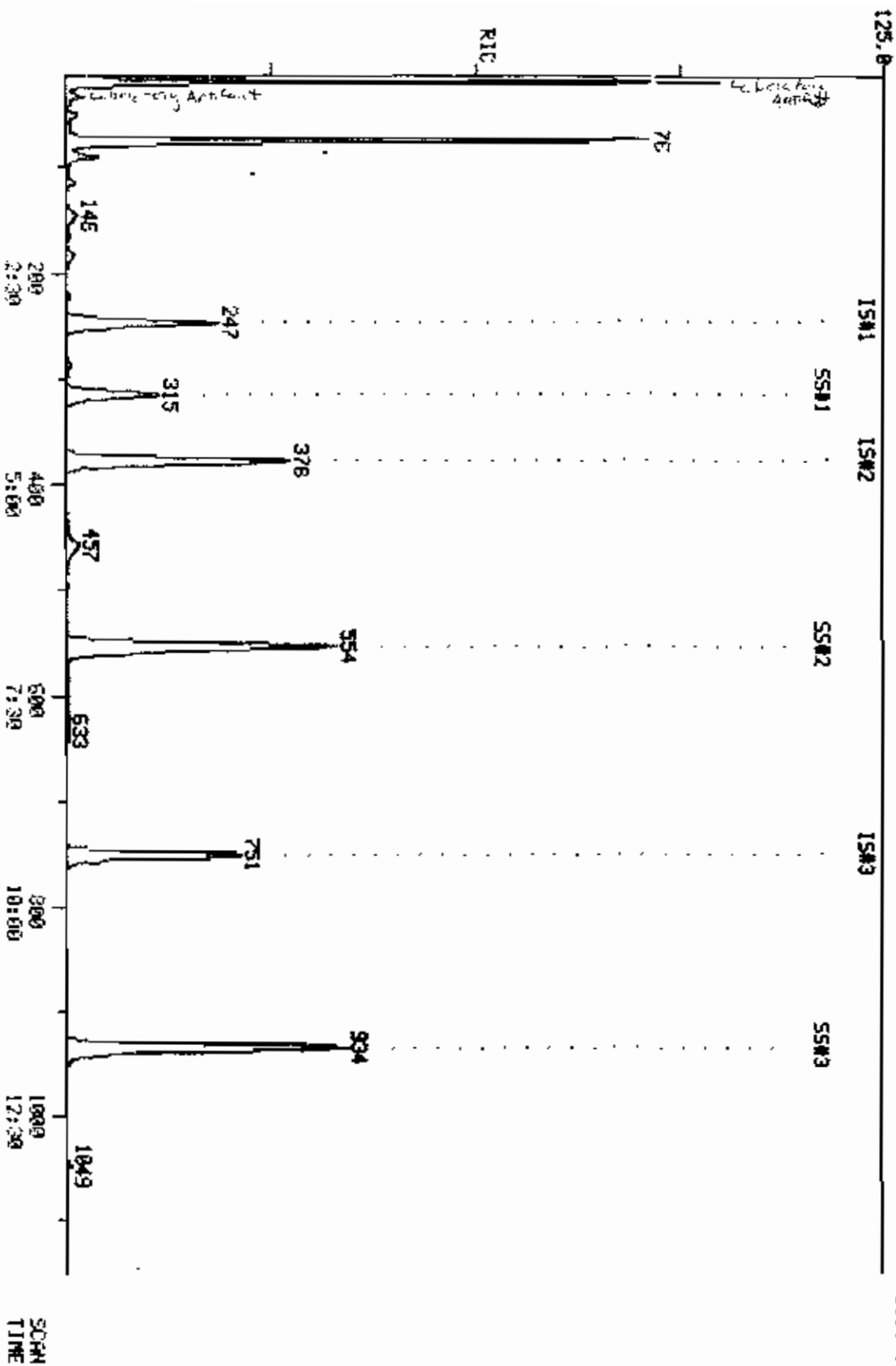
1/87 Rev.

COMPUchem LABS

COMPUchem DATA: 09037200019 SCANS 19 TO 1150

RIC
06/19/90 8:28:00
SAMPLE 5ML C0133733X EPMA17300102 CASE#78124 04#19
COND5.1

106368.



QUANTITATION REPORT FILE: CN037390A19
 DATA: CN037390A19.TI ✓
 05/15/90 8:28:00 ✓
 SAMPLE: SML CC#33739X EPA#: 73800102 CASE#20124 ON#19
 CONDS.:
 SUBMITTED BY: 19 ^{05/16/90} ANALYST: 1492 ✓

AMOUNT=AREA * REF. AMNT/(REF. AREA) * RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY ✓

NO	NAME
1	*234 BROMOCHLORDMETHANE (15) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (15) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	*233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	ZTOT
1	128	246	3:04	1	1.000	A 88	46235.	50.000 UG/L	14.61
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	ZTOT
3	62	39	0:29	1	0.159	A BB	4013.	9.244 UG/L	2.70 ¹⁰⁰
4	94	NOT FOUND							
5	64	51	0:38	1	0.207	A BB	5136.	7.394 UG/L	2.16 ¹⁰⁰
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	92	1:09	1	0.374	A BB	929.	3.878 UG/L	1.13 ¹⁰⁰
9	114	378	4:43	9	1.000	A BB	189755.	50.000 UG/L	14.61
10	84	114	1:25	1	0.463	A BB	2608.	3.219 UG/L	0.94 ¹⁰⁰
11	96	NOT FOUND							
12	63	166	2:04	1	0.675	A BB	3694.	3.621 UG/L	1.06 ¹⁰⁰
13	43	185	2:19	9	0.489	A BB	4518.	4.660 UG/L	1.36 ¹⁰⁰
14	96	222	2:46	1	0.902	A BB	1920.	2.216 UG/L	0.65 ¹⁰⁰
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	312	3:54	9	0.825	A BB	2203.	1.173 UG/L	0.34 ¹⁰⁰
20	62	325	4:04	1	1.321	A BB	1524.	1.334 UG/L	0.39 ¹⁰⁰
21	117	751	9:23	21	1.000	A BB	121200.	50.000 UG/L	14.61
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	314	3:55	1	1.276	A BB	63431.	54.765 UG/L	16.01
41	95	935	11:41	21	1.245	A BB	71191.	49.909 UG/L	14.59
42	98	554	6:55	21	0.738	A BB	163144.	50.780 UG/L	14.68

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30	0.98	10.000	0.02	9.24	50.00	0.087	0.469	0.18
4	0:37		10.000			50.00		1.152	
5	0:39	0.98	10.000	0.02	7.39	50.00	0.111	0.751	0.15
6	1:03		5.000			50.00		1.389	
7	1:07		5.000			50.00		3.616	
8	1:11	0.97	10.000	0.04	3.88	50.00	0.070	0.259	0.08
9	4:45	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	0.98	5.000	0.09	3.22	50.00	0.056	0.876	0.06
11	1:40		5.000			50.00		0.941	
12	2:05	0.99	5.000	0.13	3.62	50.00	0.080	1.103	0.07
13	2:19	0.99	10.000	0.05	4.66	50.00	0.074	0.255	0.07
14	2:49	0.98	5.000	0.18	2.22	50.00	0.042	0.937	0.04

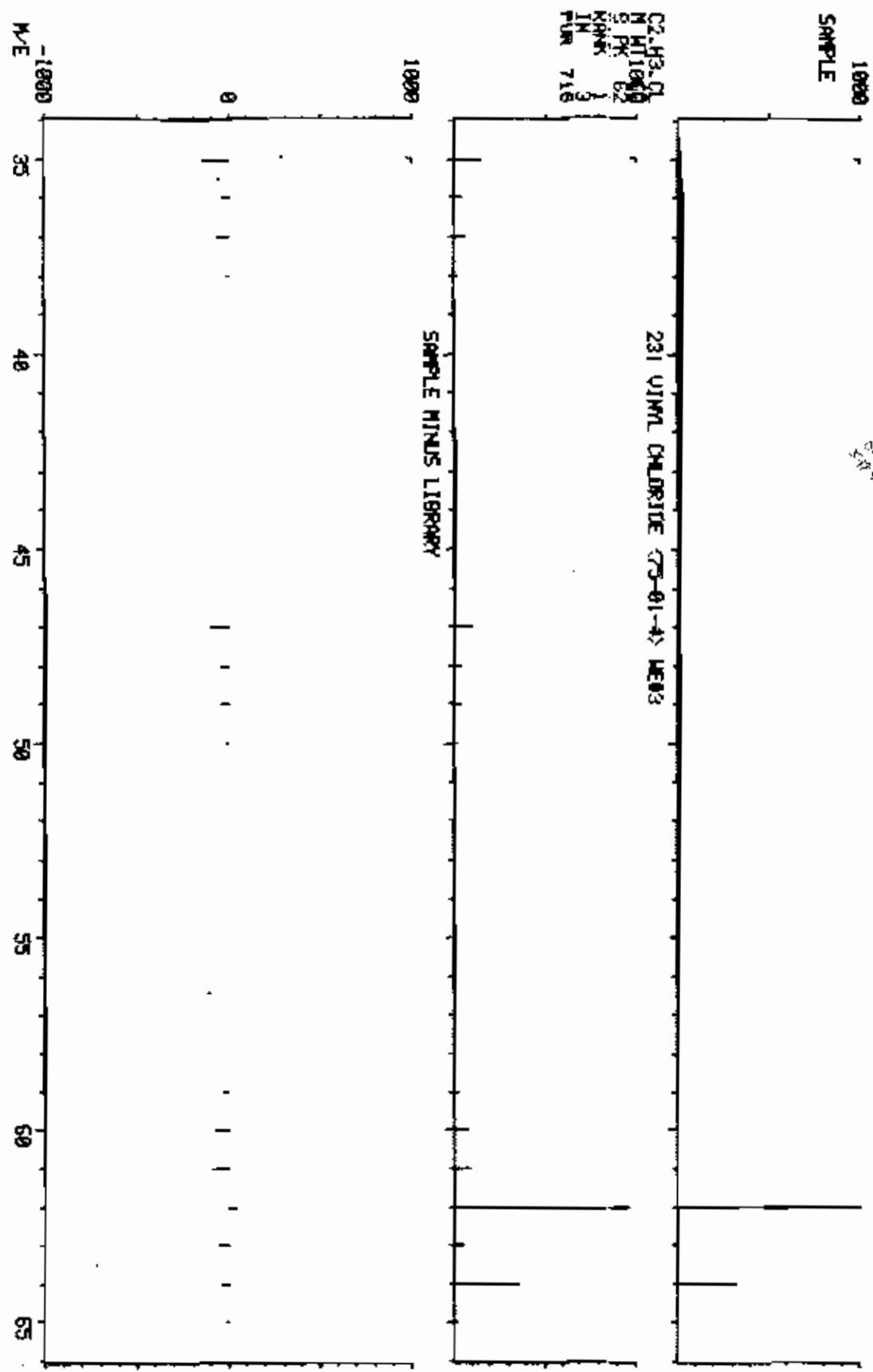
NG	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55	0.99	5.000	0.17	1.17	50.00	0.012	0.495	0.02
20	4:04	1.00	5.000	0.26	1.33	50.00	0.033	1.236	0.03
21	9:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.455	
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.362	
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.746	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	0.99	5.000	0.26	54.77	50.00	1.372	1.253	1.10
41	11:42	1.00	5.000	0.25	49.91	50.00	0.587	0.588	1.00
42	6:57	1.00	5.000	0.15	50.78	50.00	1.911	1.488	1.02

COMPUCHEN LABS
DATA: CH03739019 # 39 BASE M/EI 52
R101

LIBRARY SEARCH
02/15/90 0:20:00 + 0:29
SAMPLE 594 CO#337394 EPA#173800102 CASE#20124 QM#19
EPA#003 (5 138 2N 01)

Handwritten: 2N

C2-H3-O
M H1180
8 PK 62
KONK 1
IN 3
PUR 718

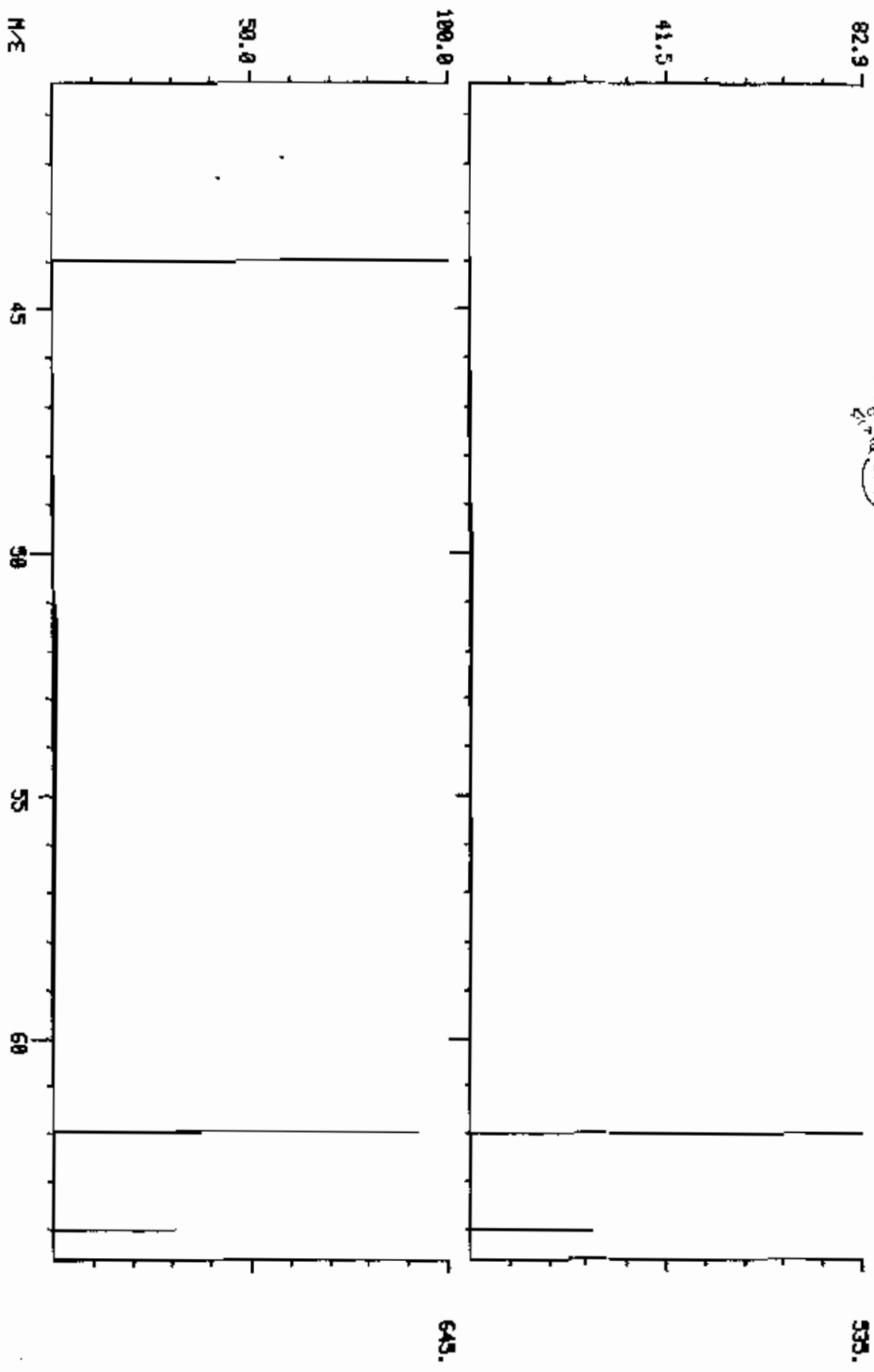


COMPUCHEN LABS

DATA1 CH03739019 #39

BASE M/E: 52/ 44
R1C: 709.1/ 1499.

DUAL MASS SPECTRUM
06/18/90 01:29:00 + 01:29
SAMPLE: SWL CH03739019 EPRI 73800102 CASE#20124 DM#19
ENRICHED (5 138 211) ⁶⁷Zn ⁶⁷Zn 231 UHHL CALORIDE (75-01-4) ME#3



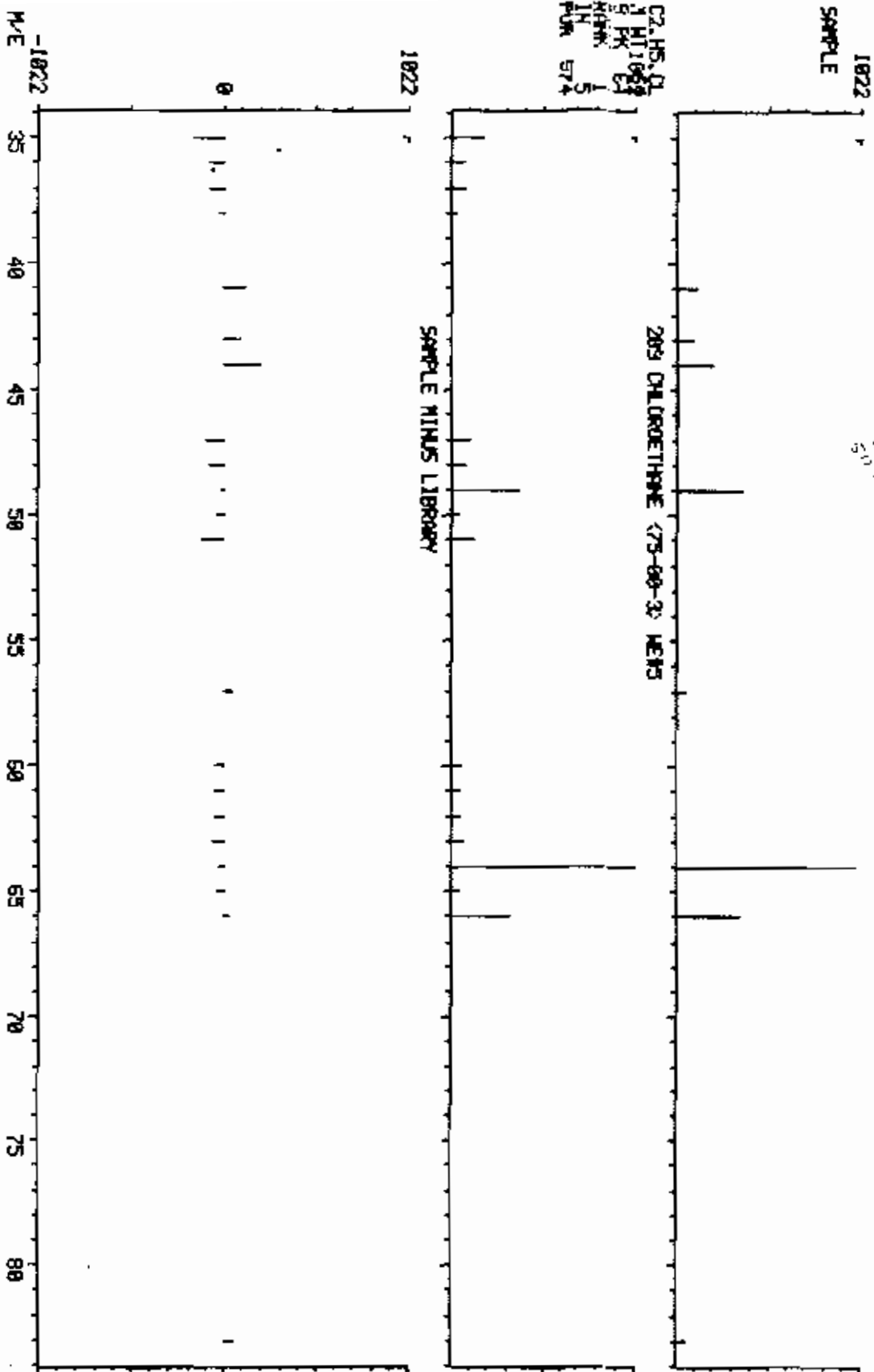
COMPUCHEN LABS

DATA: C003739019 # 51

BASE M/E: 64
RIC: 1776.

LIBRARY SEARCH
08/18/90 01:29:00 + 01:29
SAMPLE: SML C003739019 EPA# 179800102 CASE#20124 04/8/19
ENHANCED (5 128 24 81) 63740
510

C2.HS.L1
1.HI.1069
9 PK 51
KHEK
IN 5
PUN 574

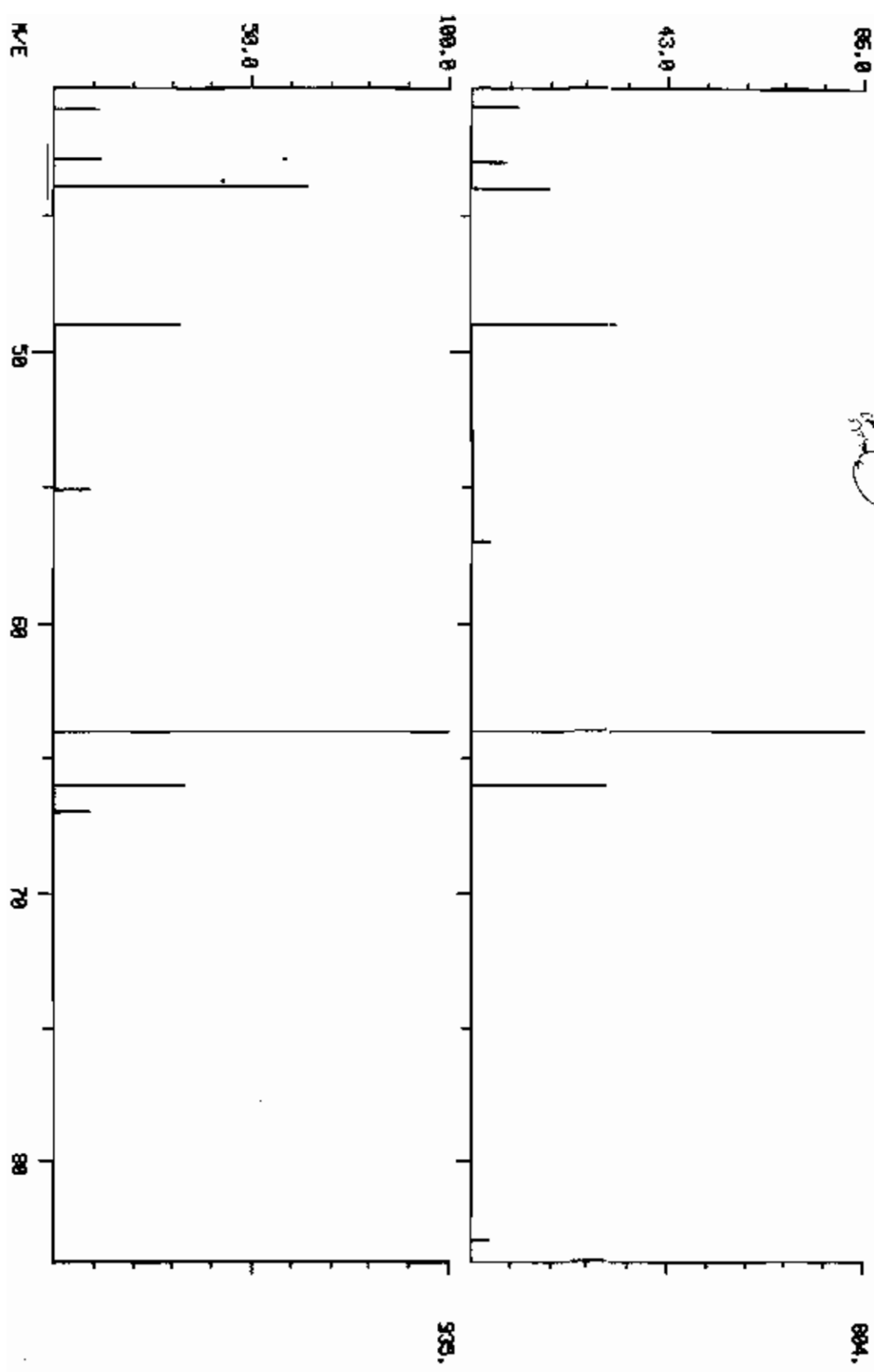


COMPUchem LABS

DATA1 CN037090A19 #51

BASE M/E 64
RIC 1775. ✓
2819.

DUAL MASS SPECTRUM
08/15/00 01:20:00 * 01:20
SAMPLE: 5ML CN033739X EPAN 73800102 CASE#Z8124 04#19
ENHANCED (5 15S 2H) 203 CALORIMETRIC (75-08-3) IER#5



COMPUCHEM LABS

DATA: CN03739019 # 114

BASE M/E: 49
R10: 1.728

LIBRARY SEARCH
02/15/90 0:28:00 + 1:28
SAMPLE: 5ML DC#337391EPP#17380102 CASE#20124 DN#19
ENRANCED (5 158 21 0T) 20124

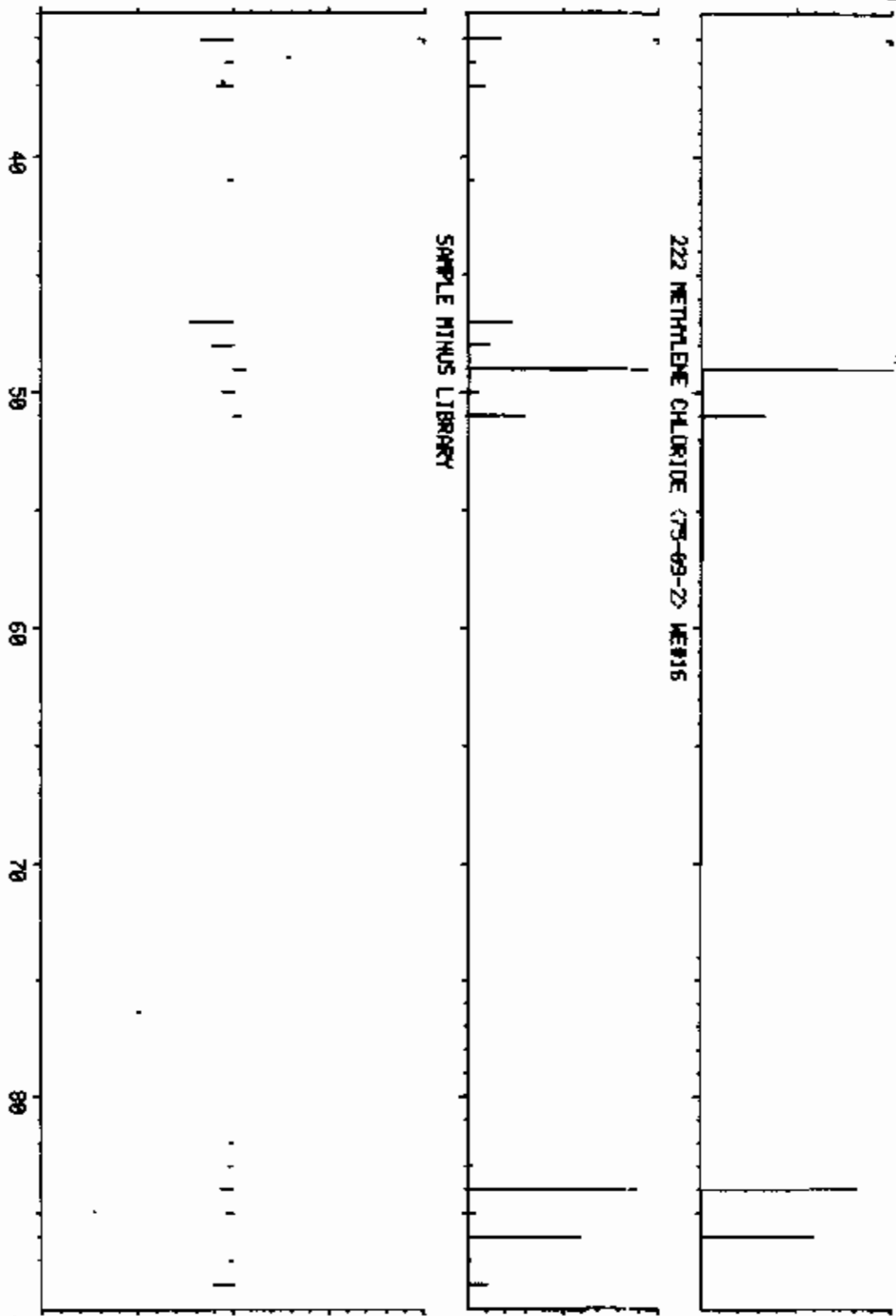
1000
SAMPLE

C-H2, Cl-2
E M 1000
E OK 49
N 16
IN 16
PUR 755

222 METHYLENE CHLORIDE (75-69-2) M#16

SAMPLE MINUS LIBRARY

1000
M/E

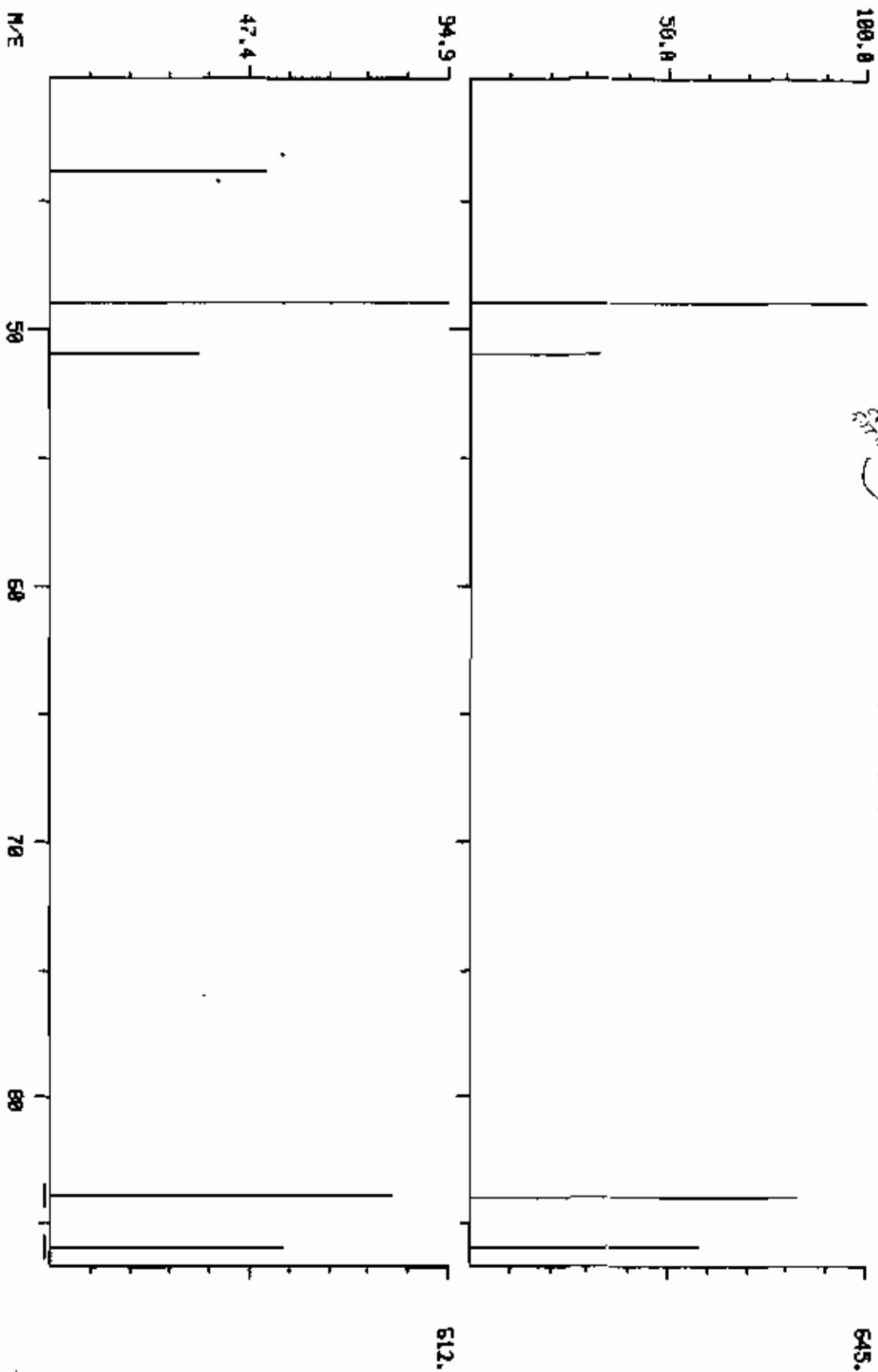


COMPUCHEM LIBS

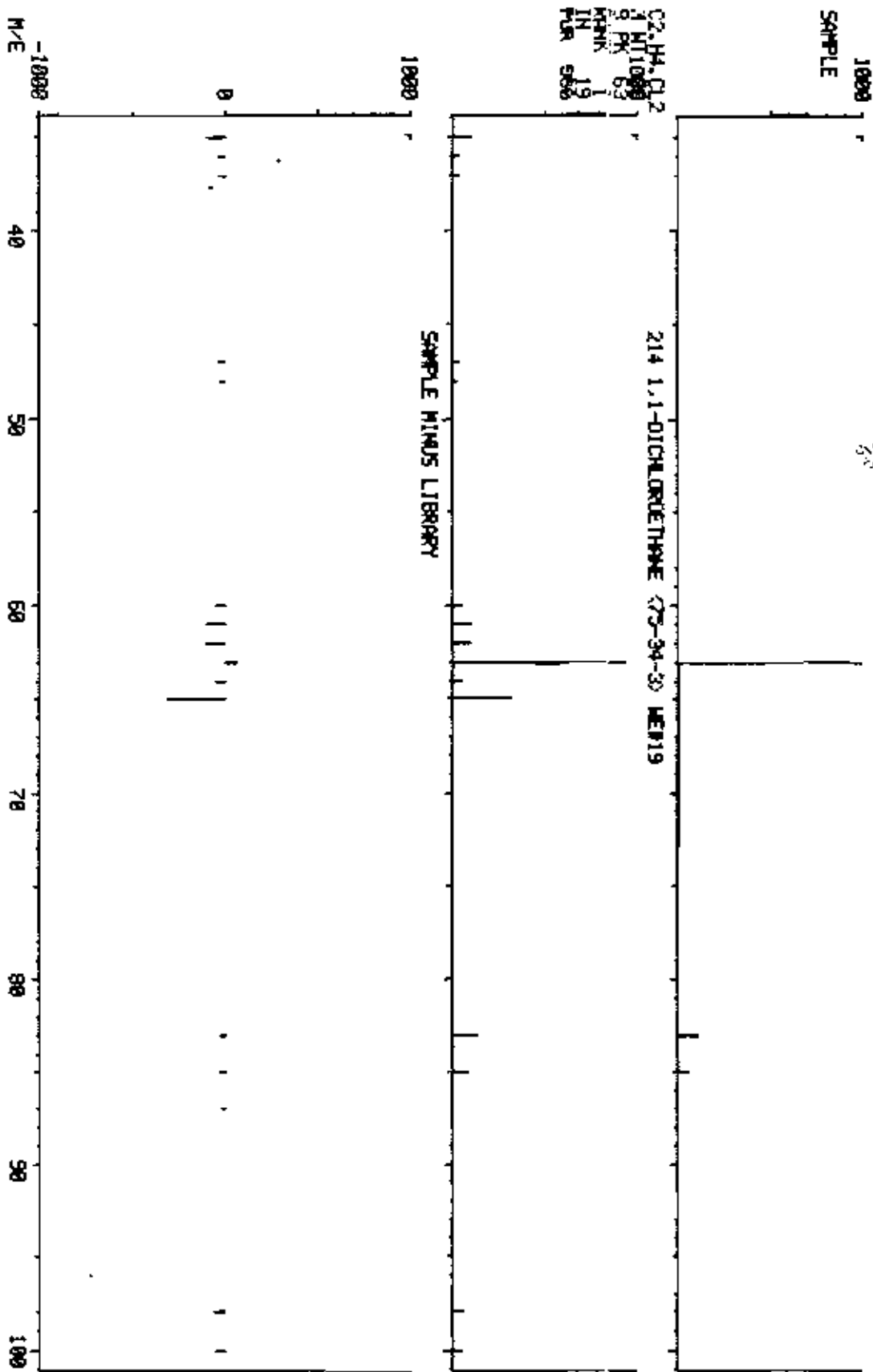
DATA1 CH037350A19 #114

BASE M/E 49 49
R101 1765.1 2061.1

DUAL MASS SPECTRUM
09/15/90 01:20:30 + 17.28
SAMPLE: SWL CC#K337391 EPA#173800102 CASE#20124 QM#19
ENRICHED (5 138 24) ⁶³Ca ⁴⁴Ti 222 METHYLENE CHLORIDE (75-99-2) HE#15



LIBRARY SEARCH
08/18/89 01:29:09 + 2:04
SAMPLE: 5ML C03373981 EPMA173800102 CRSE178124 08/19
SEARCHED (S 158 24 81 10/27/89
2/3)



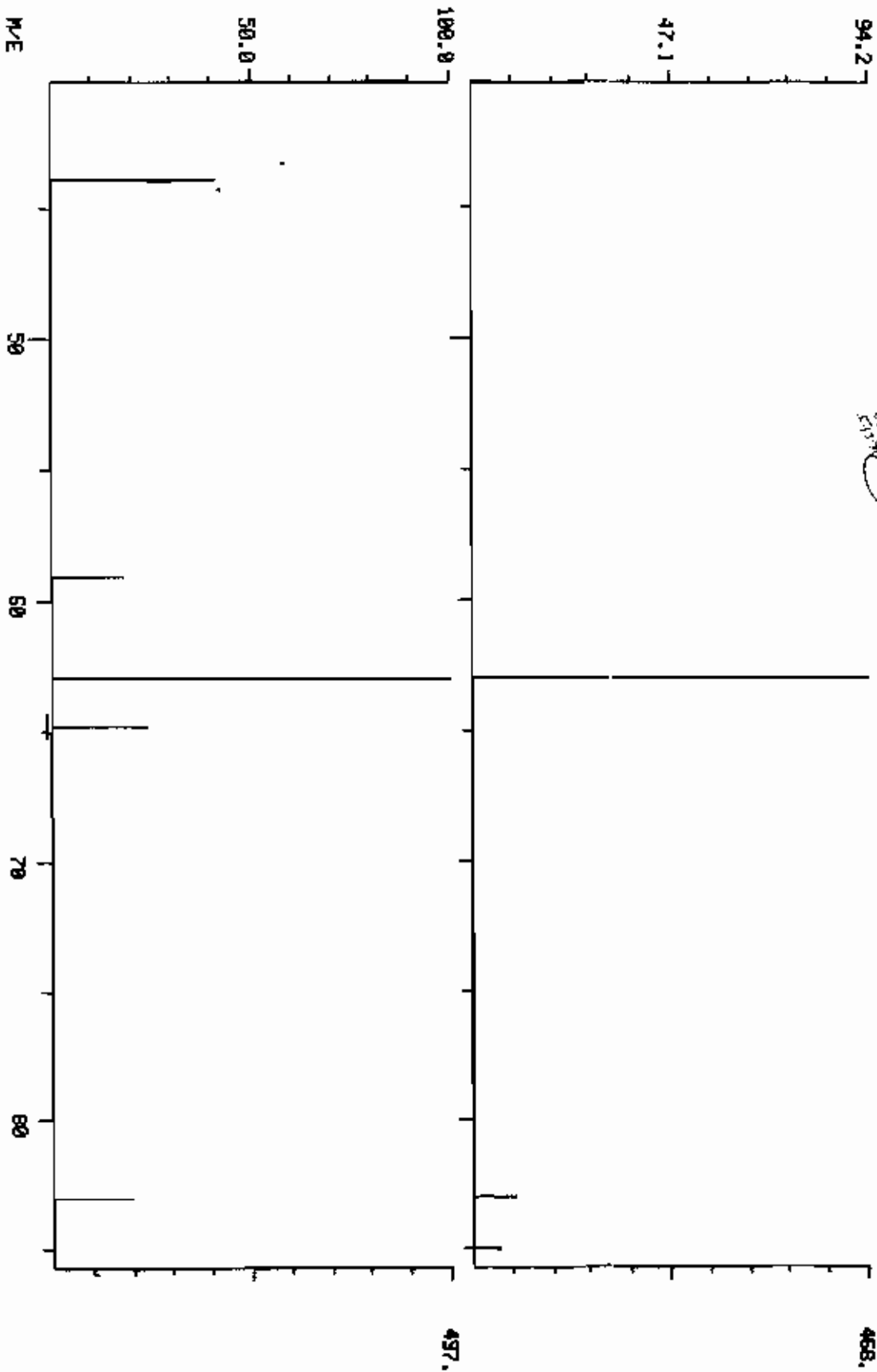
C2H4Cl2
1 M1000
9 PK 63
KORIN 1
IN 19
FOR 988

COMPUCHEN LABS

DATA: DMS3739019 #165

BOSE M/EI 53/ 53
R/C 547. ✓ 1994.

DUAL MASS SPECTRUM
05/18/90 07:29:00 + 21.04
SAMPLE SML C033739407EP0173800102 CASE#20124 ON#19
ENHANCED (S 158 2H) 05/18/90 (214) 1,1-DICHLOROETHYLENE (75-34-3) MS#13



COMPUCHEM LABS

DATA: CN037390A19 # 22

BASE M/E 44
R/C 124299.

LIBRARY SEARCH
06/15/00 01:20:00 + 01:15
SAMPLE: SML CN037390 EP00:73800102 CASE#20124 CN#19
ENHANCED (S 158 2N 0T) 01/10

1000
SAMPLE

C3.H2.CL.BR2.F
CYCLOPROPANE,1,1-DIBROMO-2-CHLORO-2-FLUORO- CAS# 24071-57-6

M HT 1000
B PK 44
RANK 1
IN 10000
PUR 976

C.H.06.N3
METHANE,TRINITRO- CAS# 517-25-9

M HT 1000
B PK 44
RANK 2
IN 6101
PUR 861

C3.H7.02.N
L-ALANINE CAS# 56-41-7

M HT 1000
B PK 44
RANK 3
IN 518
PUR 792

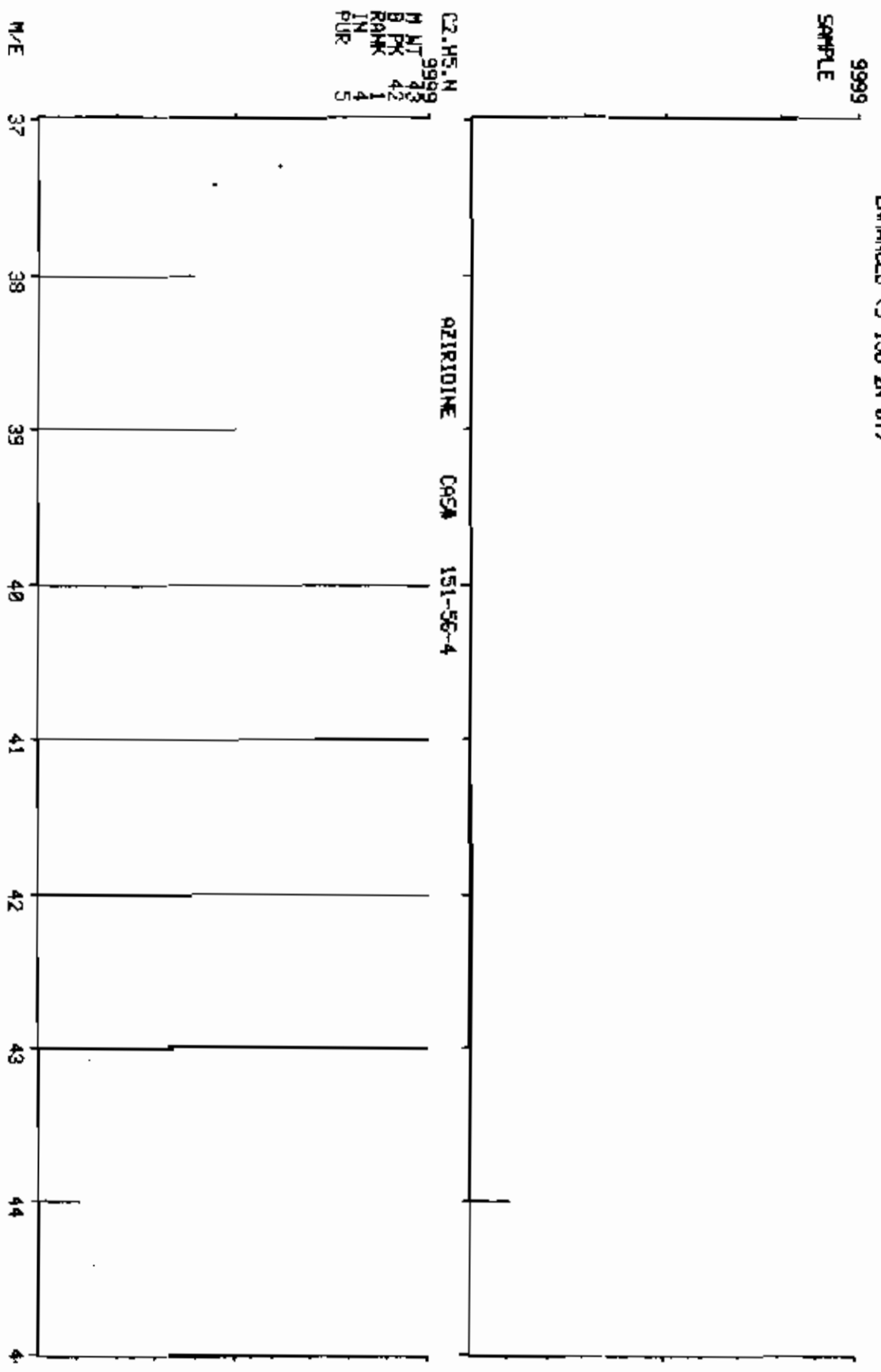


LIBRARY SEARCH
 06-16-90 01:20:00 + 01:25
 SAMPLE SML C0837391 EP#1: 79800102 C08E#20124 Q#19
 ENHANCED (5 158 2N 8T)

COMPUCHEM LABS

DATA: C0837390A19 # 35

BASE M/E: 44
 RIC: 2919.



C2.H5.N
 9999
 M WT 43
 B PK 42
 RANK 1
 IN 4
 PUR 5

1299
SAMPLE

LIBRARY SEARCH
06/15/99 01:29:00 + 01:57
SAMPLE 5ML C083739019.PAI:73800102 CASE#20124 DN#19
EXTRACTED (5 158 2H 07^{XX} 1999)

COMPUchem LABS

DATA: C0837390A19 # 76

BASE M/E: 59
R10: 126847.

C4.H18.0
M HT 1299
B PK 74
RANK 58
IN 57
PUR 576

ETHANE, 1,1'-OXYBIS- CAS# 68-29-7

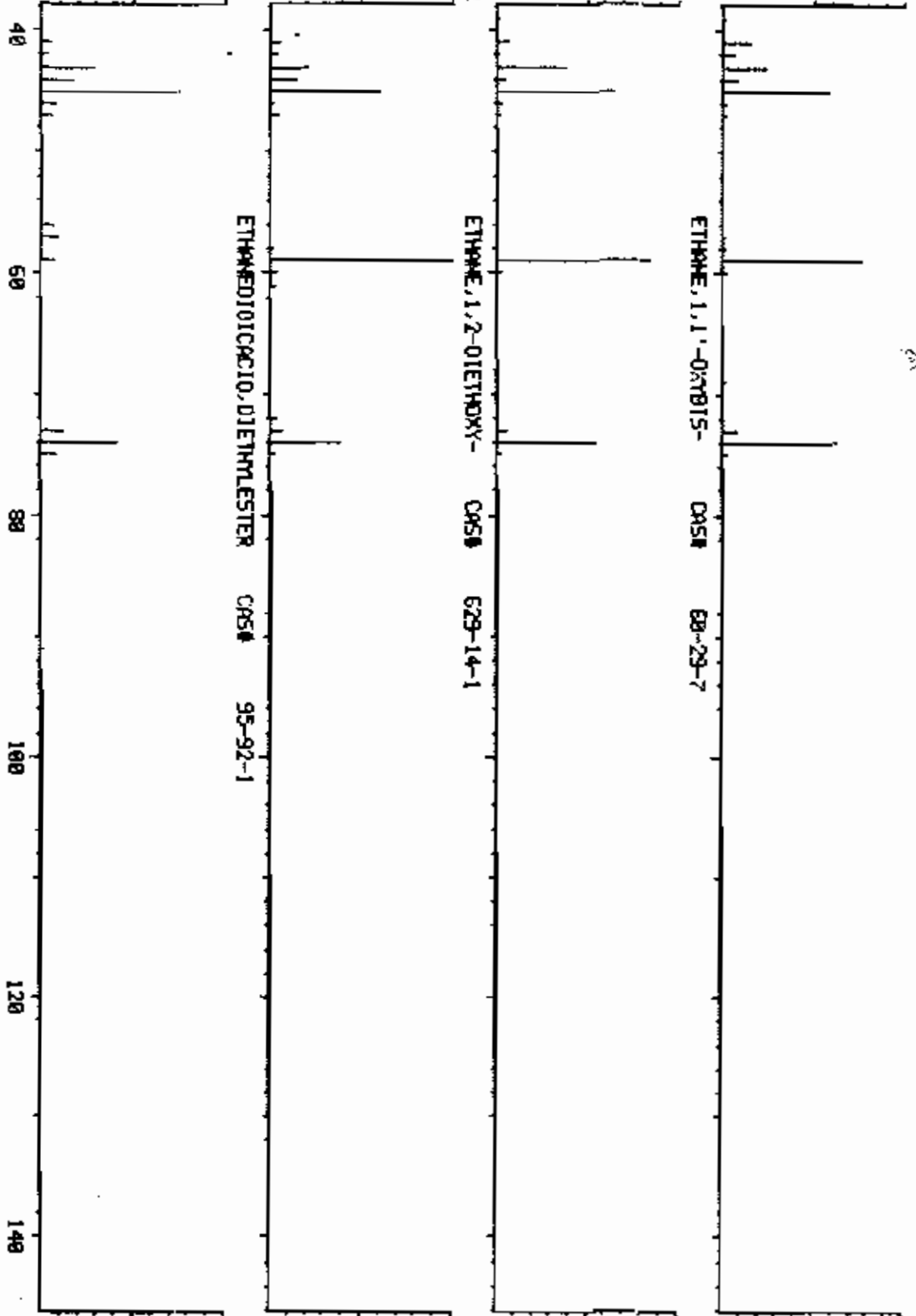
C6.H14.02
M HT 1299
B PK 118
RANK 58
IN 2368
PUR 915

ETHANE, 1,2-DIETHOXY- CAS# 629-14-1

C6.H18.04
M HT 1299
B PK 45
RANK 3
IN 5474
PUR 729

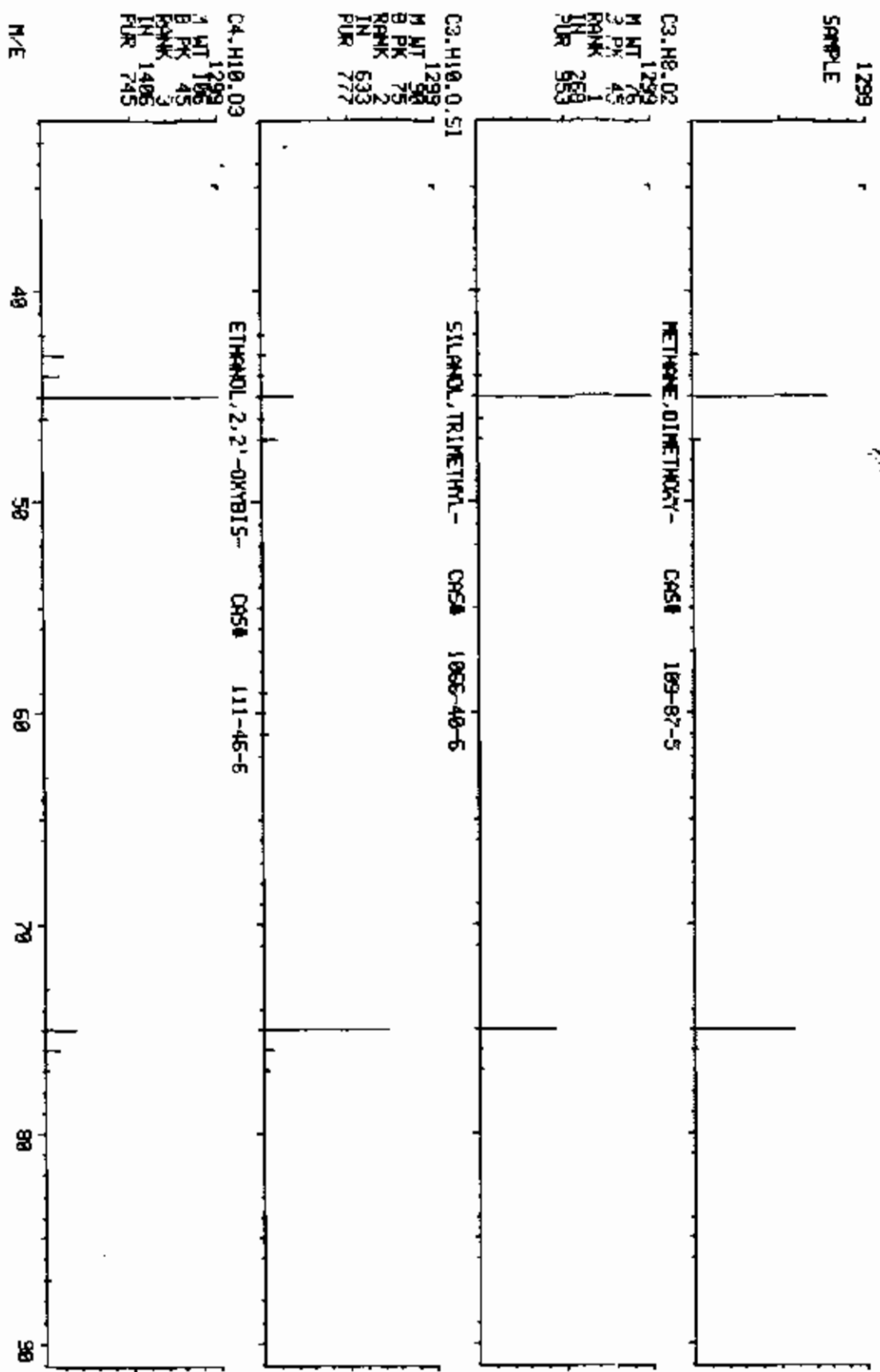
ETHANEDIOICACID, DIETHYLESTER CAS# 95-92-1

M/E



LIBRARY SEARCH
 08/15/88 01:29:00 + 1:00
 SAMPLE: SML C08337391@EPRA173800102 C95E#20124 04819
 ENHANCED (S 158 24 87) ²⁰⁰⁰

COMPUCHEM L985
 DATA: C08337390A19 # 91 BASE M/E: 45
 RT: C271.



CAUTION LOW VOLUME ONE | SAMPLE- ID73800104 ONLY HAS 1 VOA

RECEIPT DATE: 05/08/90 CASE# 20124

VOA GC/MS WORKSHEET COMPUchem#: 337390

J1 J J3 J D1 J C 12
J2 J J4 J D2 J C 13

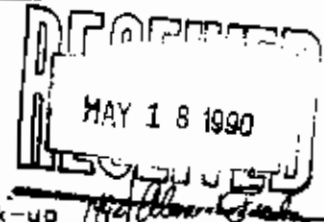
GC/MS, TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code---- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

SAMPLE ID#: 73800102

GC/MS ANALYSIS

Amount Purged: [] 5 ml or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added _____ 5 ul
Surrogate Standard Volume Added _____ 5 ul
BFB Filename BF900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename CN037390A19 Disk ()



ANALYST(S): Injection 1492/Alan Fink

Work-up 1492/Alan Fink

GC/MS REVIEW

CONDITION CODE

OK

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 34 MS-R-40



[] Reinject Neat

Quality Assurance Notice(s):

Notices Required 2

[] Dilute ()

COMMENTS:

GC/MS Review OK Date 5/17/90 Auditor _____ Date _____

REPORT INTEGRATION

Final Reportable Package(s): CN0-A19 Total # of Injections: 1

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW:

Initials _____ Date _____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
204	128 I	BROMOCHLOROMETHANE (IS)	246	46200	50.0		
221	50	CHLOROMETHANE				BDL	10
201	62	VINYL CHLORIDE			9.2	9J	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE			7.4	7J	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			9.9	BDL 4J	10
248	114 I	1,4-DIFLUOROBENZENE (IG)	378	190000	50.0		
222	84	METHYLENE CHLORIDE			3.2	3JB	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE			3.6	4J	5
257	43	VINYL ACETATE			4.7	BDL 5J	10
237	96	CIS-1,2-DICHLOROETHENE			2.2	BDL 2J	5
259	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE			1.2	BDL 1J	5
215	62	1,2-DICHLOROETHANE			1.3	BDL 1J	5
270	117 I	DS-CHLOROBENZENE (IS)	791	121000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
220	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			54.8	110.7	
247	95 S	BROMOFLUOROBENZENE			49.9	100.7	
233	98 S	D8-TOLUENE WE#59 58#2			50.8	102.7	
259	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY CKA/G
(CC/MS DATA REVIEWER)

DATE 5/16/90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP					QUANT	REPORTED	DETECT.	
#	M/E	F	COMPOUND NAME	SCAN	AREA	VALUE	AMOUNT	LIMIT
							(UG/L)	(UG/L)
299	56		1,2-DICHLOROETHENE (TOTAL)			2.2	2J	10
CHECKSUMS:								
			3979.	1375	357200.	344.4		38.

CORRECTED/REVIEWED BY CX Lwin
(GC/MS DATA REVIEWER)DATE 5/16/90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE, COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	54.8	50.0	110.	76-114	X	
41	247	BROMOFLUOROBENZENE	49.9	50.0	100.	86-115	X	
42	233	OB-TOLUENE WE#59 SS#2	50.8	50.0	102.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

5000 UL

----- X
VOLUME OF SAMPLE PURGED (UL)

5000 UL

= 1.00 =

5.000 ML

5000. (UL)

5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.

SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *Babak*
(GC/MS DATA REVIEWER)DATE 5-16-92

QUALITY ASSURANCE NOTICE

CompuChem # 337390
Instrument Blank : CR960515C19
Client ID # 7380102
Case 20174

The early-eluting peak on the RIC of the volatile fraction at scan # 22,35 is an instrument artifact believed to be a mixture of water and various atmospheric gases. This peak is usually present at less than 10% of the nearest-eluting internal standard peak height, although it may exceed this height under certain instrument conditions.

Periodically, a number of maintenance procedures are performed in an effort to reduce the intensity of this artifact. These procedures may include:

- trap replacement
- reconditioning and/or replacing column
- replacing six-port valve in Tekmar
- cleaning of the separator
- cleaning or replacing source
- replacing lines in Tekmar

In many cases, even after maintenance, the artifact peak remains at a height greater than 10% of the nearest internal standard. Since the analytical quality of these data have not been compromised, we are reporting this analysis with reference to this qualifier. The artifact is not included as part of the Library Search requirements for the associated samples.

Robert J. Whitehead
Manager, Quality Assurance

QAN15V
070917

QUALITY ASSURANCE NOTICE

CompuChem # 337390
Blank ID # CR90057509
Case 20124

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8240" and "Semi-volatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/L</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/lgr acetone may not exceed 50 ug/lgr. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Litchfield
Manager, Quality Assurance

04/285
671026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800103

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 317391

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037391A19

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800103

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337391

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037391A19

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHANE, 1,1'-OXYBIS-	0.95	8.0	J

FORM I VOA-TIC

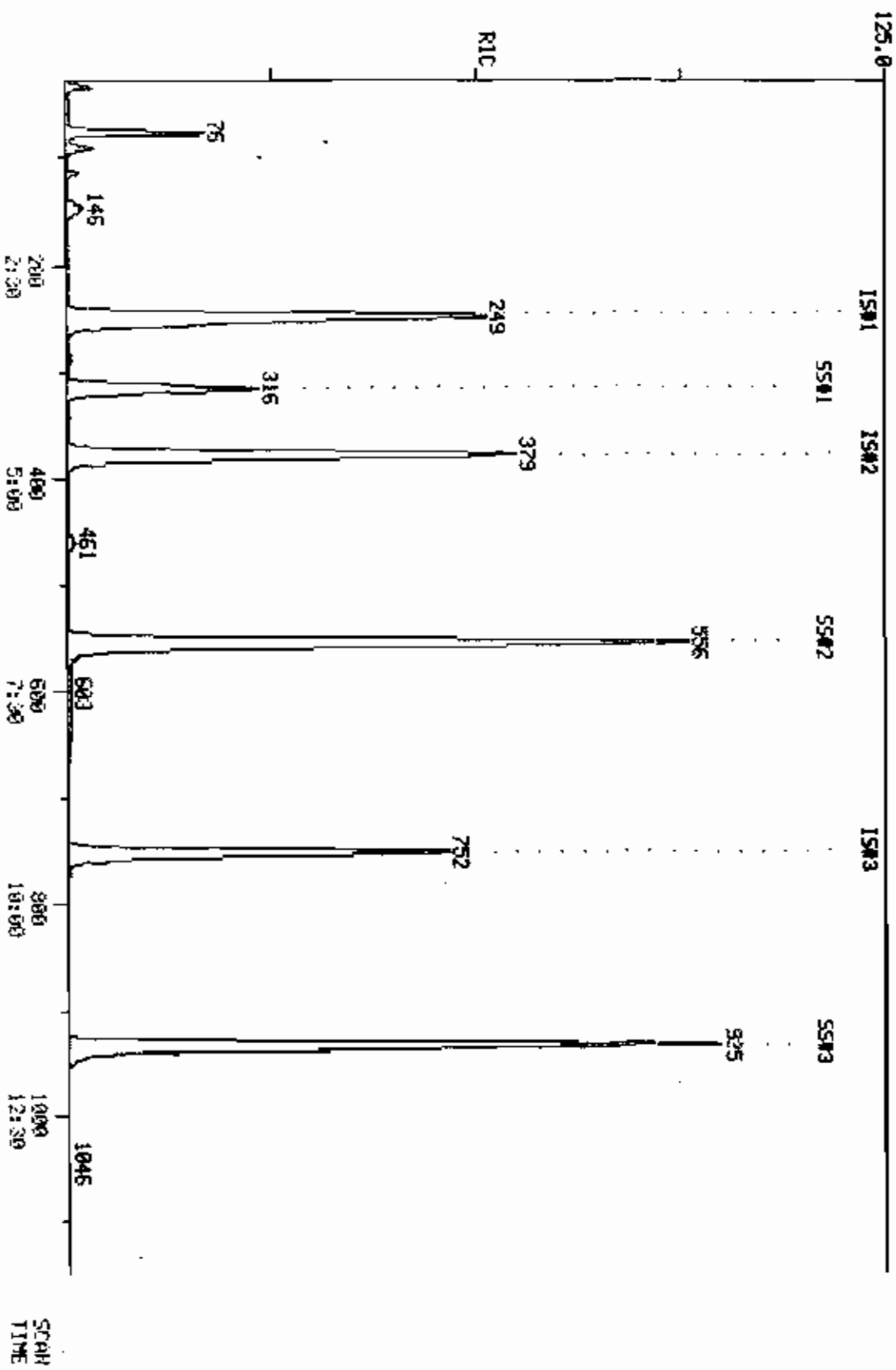
1/87 Rev.

COMPUCHEN L1995

COMPUCHEN DATA, CASE#7391019 SCANS 29 TO 1180

RIC
05/15/98 8:58:08
SAMPLE: GRL CC#337331 EPA#17390103 CASE#20124 DR#119
COND.S:

79600.



QUANTITATION REPORT FILE: CN037391A19
 DATA: CN037391A19.TI ✓
 05/15/90 B: 58:00 ✓
 SAMPLE: 5ML CC#337391 EPA#: 73800103 CASE#20124 OP#419
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1492 -

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY ✓

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	234 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	297 VINYL ACETATE <108-09-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-A> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	*233 DB-TOLUENE WE#59 SS#2

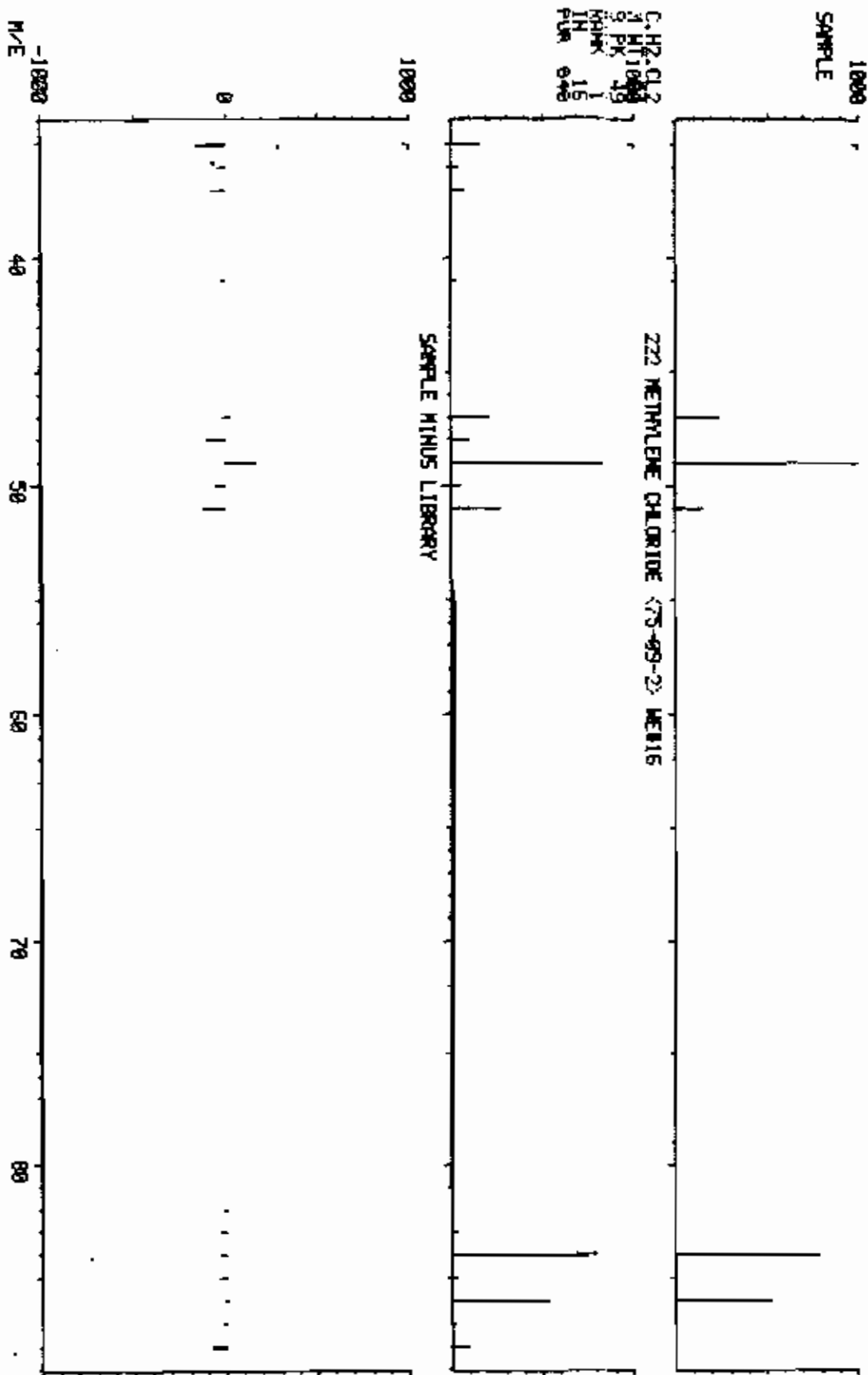
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	247	3:05	1	1.000	A 88	42514.	50.000 UG/L	15.85
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	96	1:12	1	0.389	A*BB	755.	3.427 UG/L	1.09
9	114	379	4:44	9	1.000	A BB	170110.	50.000 UG/L	15.83
10	84	115	1:26	1	0.466	A BB	1314.	1.764 UG/L	0.56
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	752	9:24	21	1.000	A BB	116061.	50.000 UG/L	15.85
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	316	3:57	1	1.279	A BB	58170.	54.619 UG/L	17.31
41	99	935	11:41	21	1.243	A BB	71050.	52.016 UG/L	16.49
42	98	555	6:56	21	0.738	A BB	185474.	53.702 UG/L	17.02

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39		10.000			50.00		0.791	
6	1:03		5.000			50.00		1.389	
7	1:07		5.000			50.00		3.616	
8	1:11	1.01	10.000	0.04	3.43	50.00	0.018	0.259	0.07
9	4:45	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	0.99	5.000	0.09	1.76	50.00	0.031	0.876	0.04
11	1:40		5.000			50.00		0.941	
12	2:05		5.000			50.00		1.103	
13	2:19		10.000			50.00		0.255	
14	2:49		5.000			50.00		0.937	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55		5.000			50.00		0.499	
20	4:04		5.000			50.00		1.236	
21	7:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.455	
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.362	
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.746	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	0.99	5.000	0.26	54.62	50.00	1.368	1.253	1.09
41	11:42	1.00	5.000	0.25	52.02	50.00	0.612	0.588	1.04
42	6:57	1.00	5.000	0.15	53.70	50.00	1.598	1.488	1.07

LIBRARY SEARCH
00/15/90 0150.00 + 1.26
SAMPLE: SML C0037391 EPR#173800103 D05E#20124 04#19
ENHANCED (5 128 2N 8T)

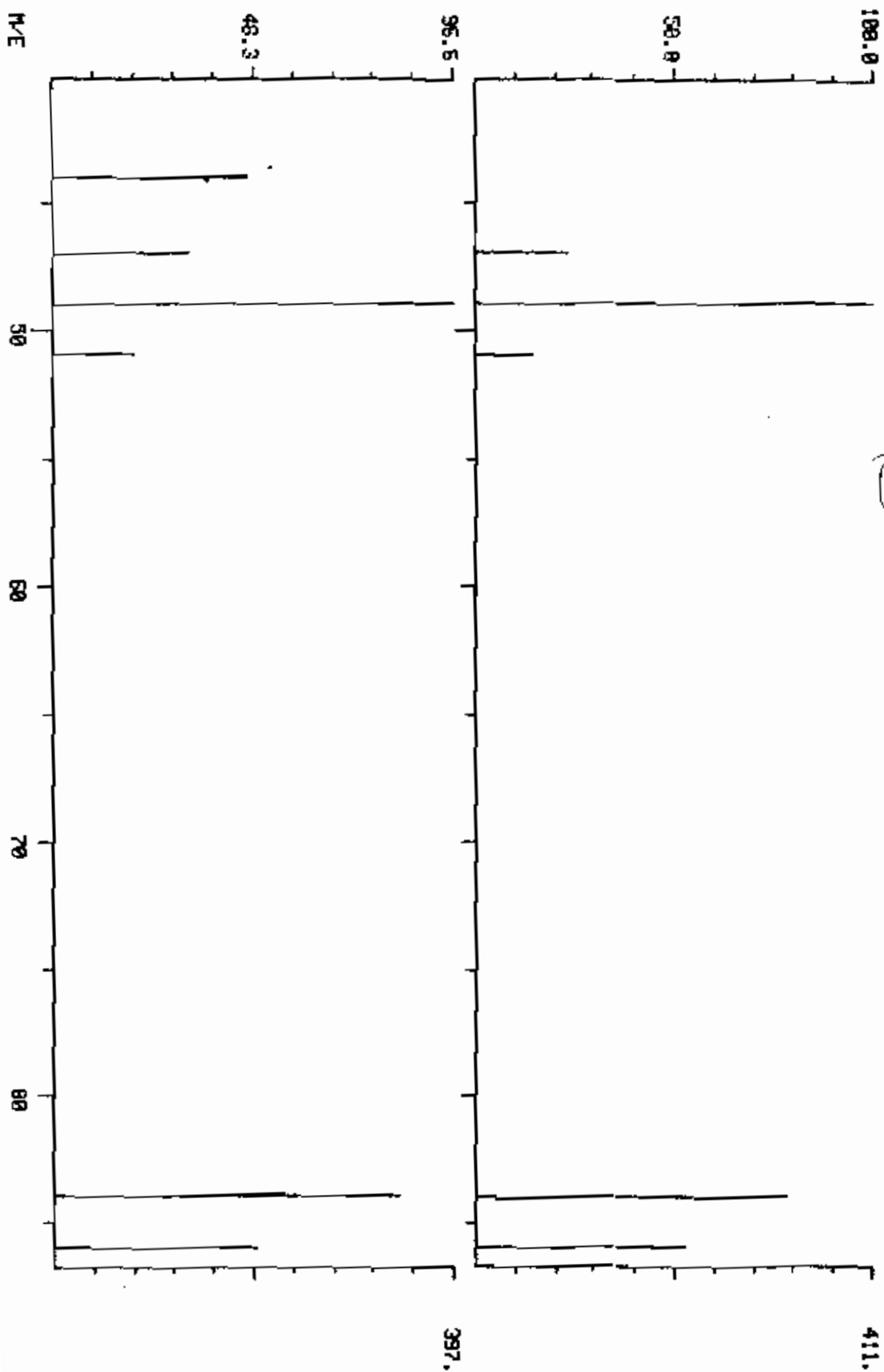


COMPUCHEM LABS

DATA1 DM037391A19 #115

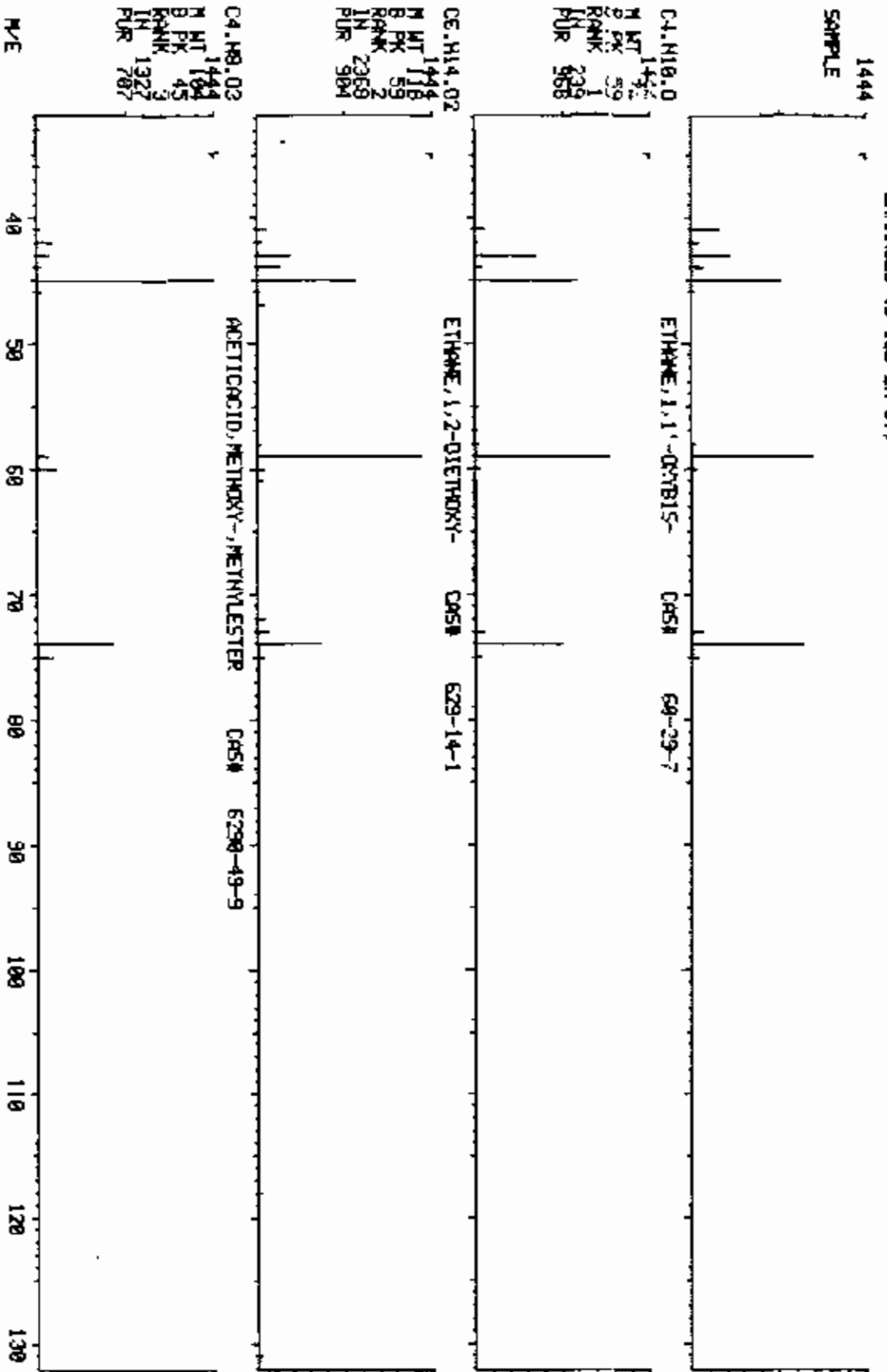
BASE M/E: 49/ 49
RIC: 1101.7 1248.

DUAL MASS SPECTRUM
06/18/99 01:50:00 + 14.26
SAMPLE 01L DM037391 EPA#173800103 CASE#29124 DM#19
EARTHED (5 128 214) (222) METHYLENE CHLORIDE (75-09-2) ME#15



NYDEC RA098 8587 ORGANIC

LIBRARY SEARCH
05/15/90 9:59:00 + 0.57
SAMPLE: SIML CC837391 EPM#173800103 CASE#20124 04419
ENHANCED (5 158 211 817)



LAB INSTRUCTIONS:

PPS# _____

CAUTION LOW VOLUME ONE (SAMPLE- ID73800104 ONLY HAS 1 VOA

RECEIPT DATE: 05/08/90

CASE#: 20124

VOA
GC/MS WORKSHEET

COMPUCHEM#: 337391

JD] J3C] DC] (:1)
2JC] J4C] D2C] (:1)

GC/MS; TCL VOA: WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code--- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

SAMPLE ID#: 73800103

GC/MS ANALYSIS

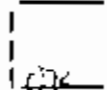
Amount Purged: [] 5 ml or () 5 Dilution _____
Internal Standard Volume Added _____ 5 ul
Surrogate Standard Volume Added _____ 5 ul
BFB Filename BF900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename CV033391A19 Disk ()



ANALYST(S): Injection 1494/Alan Fuchs Work-up 1492/Alan Fuchs

GC/MS REVIEW

CONDITION
CODE



Disposition: [] Complete

Extraneous Peak Search Results:
of Peaks Found: _____

[] Reinject Neat

Quality Assurance Notice(s):
Notices Required 01

[] Dilute (:1)

COMMENTS:

#GC/MS Review OK Date 5/14/90 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CND-A19

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW:

Initials _____ Date ___/___/___

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	247	42500	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			0.4	20-34	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	379	170000	50.0		
222	84	METHYLENE CHLORIDE			1.8	212	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (IS)	752	116000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	69 6	D4-1,2-DICHLOROETHANE WE#57			54.6	109. X	
247	95 9	BROMOFLUOROBENZENE			52.0	104. X	
233	98 6	D8-TOLUENE WE#59 SS#2			33.7	107. X	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

C. J. D. G.
(CC/MS DATA REVIEWER)

DATE

5-16-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP				QUANT	REPORTED	DETECT.
#	M/E F	COMPOUND NAME	SCAN	REPORT	AMOUNT	LIMIT
				VALUE	(UG/L)	(UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)			BDL	10
CHECKSUMS:						
	3979.		1378	328500.	313.5	5.

CORRECTED/REVIEWED BY *Orlando*
(GC/MS DATA REVIEWER)DATE 5-18-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	54.6	50.0	109.	76-114	X	
41	247	BROMOFLUOROBENZENE	52.0	50.0	104.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	53.7	50.0	107.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = \frac{5000 \text{ UL}}{5000 \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *Ortega*
 (GC/MS DATA REVIEWER)

DATE 5-16-92

QUALITY ASSURANCE NOTICE

CompuChem # 237391
Blank ID # CA9005819
Case 7024

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8248" and "Semivolatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/l; acetone may not exceed 50 ug/l. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Litchhead
Manager, Quality Assurance

C-4295
8-1026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800104

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337392

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN017392A19

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	38	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	14	
75-35-4	1,1-Dichloroethene	2	J
75-34-3	1,1-Dichloroethane	67	
540-59-0	1,2-Dichloroethane (total)	10	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethene	5	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	200	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	10	U
108-19-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

71800104

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 237392

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN017192A19

Level: (low/mad) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

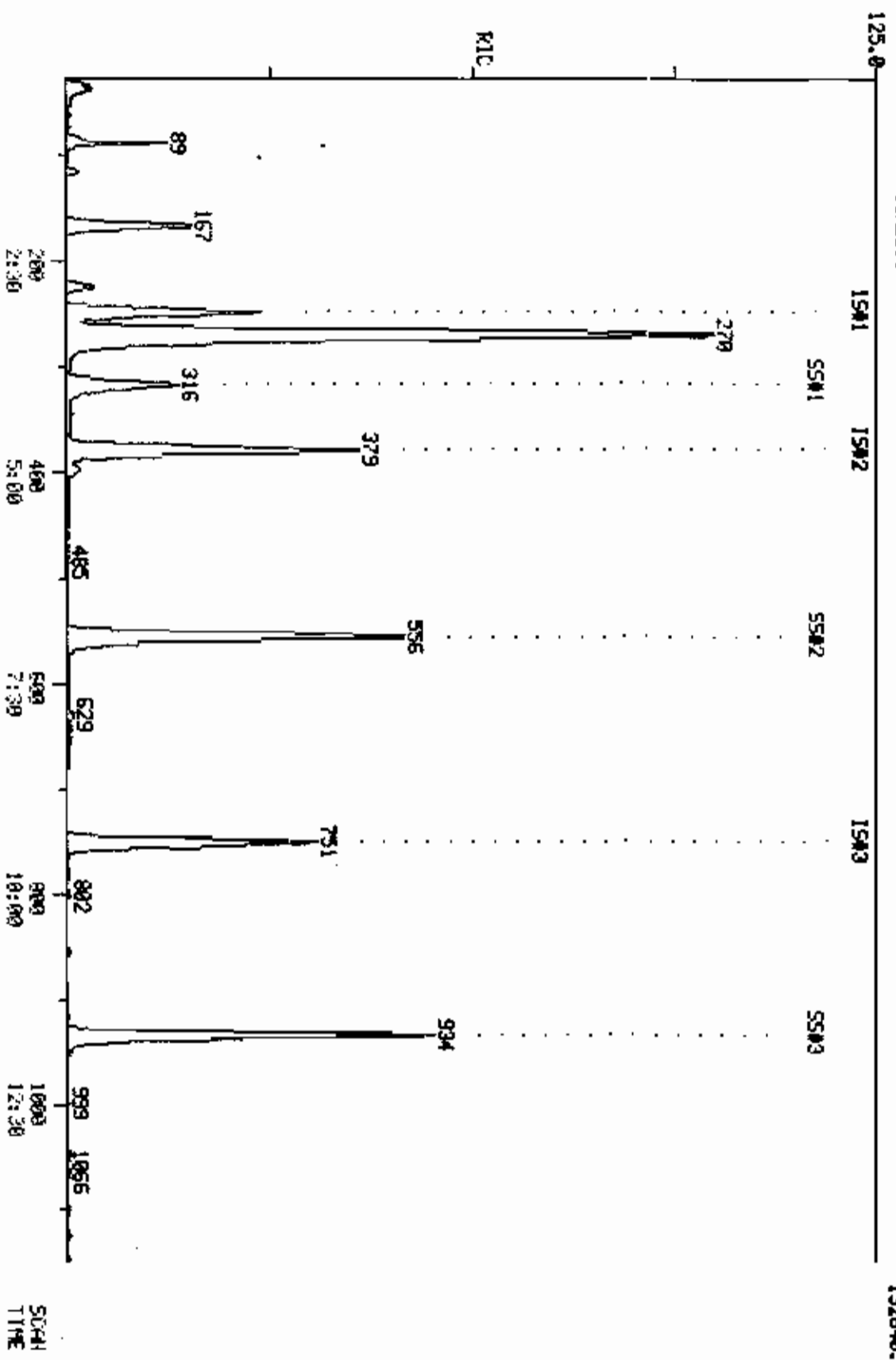
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1/87 Rev.

RIC
05/15/90 9:34:00
SAMPLE 37L C0337392 EPA#173800104 CASE#26124 ON#19
COND5.1

COMPUchem LABS
COMPUchem Data C0037392019 SCAN# 29 TD 1150



QUANTITATION REPORT FILE: CN037392A19
 DATA: CN037392A19.T1
 05/15/90 9:34:00
 SAMPLE: 5ML CC#337392 EPA#: 7380D104 CASE#20124 DN#19
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1492

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESF. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (16) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#32
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE .124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*256 D4-1,2-DICHLOROETHANE WE#57 58#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 85#3
42	*233 O8-TOLUENE WE#59 59#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HOHT)	AMOUNT	ZTOT
1	128	249	3:07	1	1.000	A BB	42856.	50.000 UG/L	7.81
2	50	NOT FOUND							

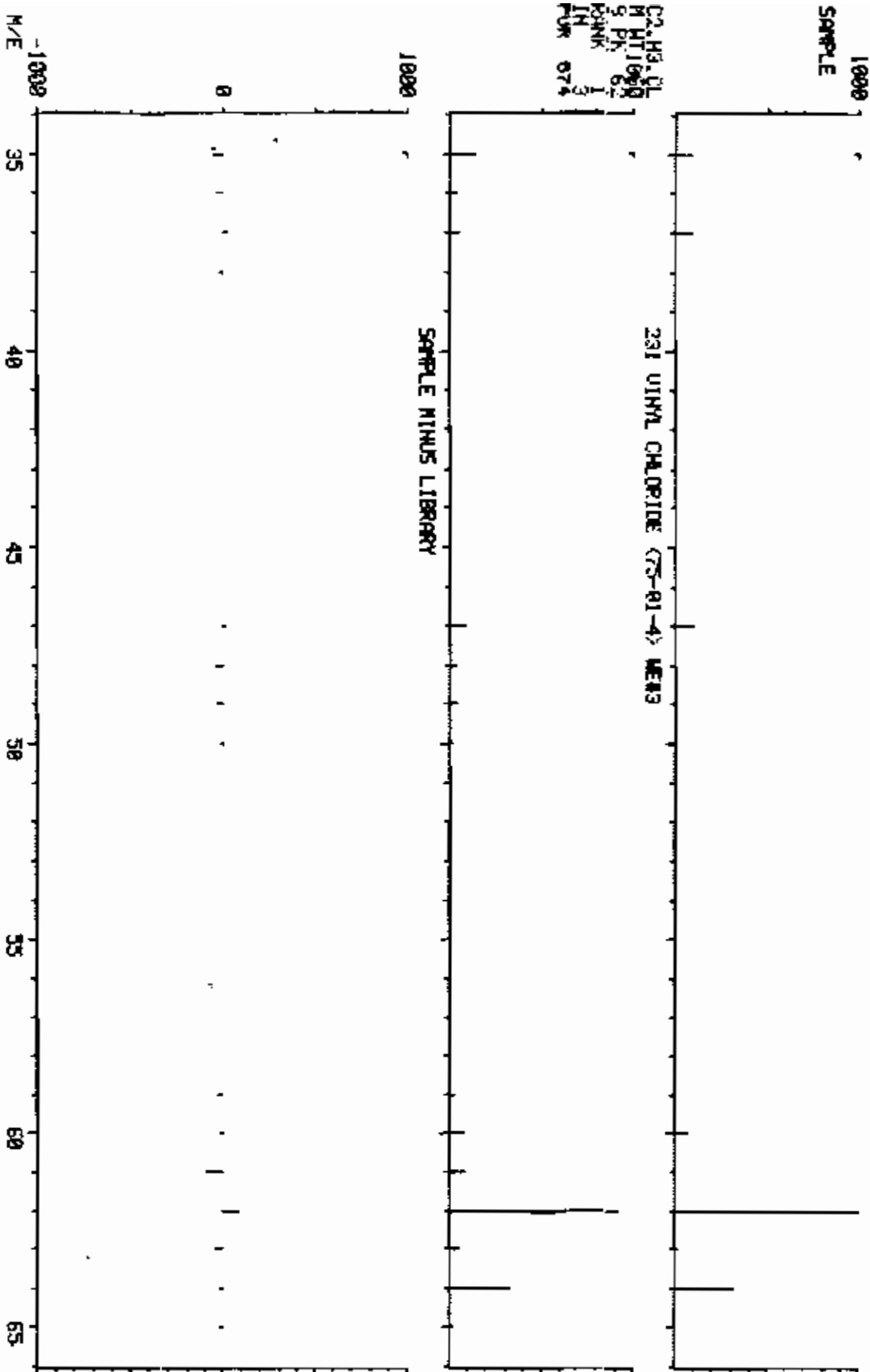
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	ZTOT
3	62	40	0:30	1	0.161	A BB	15316.	28.062 UG/L	5.95 ^{UG/L}
4	94	NOT FOUND							
5	64	51	0:38	1	0.205	A VB	950.	1.475 UG/L	0.23 ^{UG/L}
6	96	83	1:02	1	0.333	A BB	1841.	1.546 UG/L	0.24 ^{UG/L}
7	76	89	1:07	1	0.357	A BB	44766.	14.442 UG/L	2.26 ^{UG/L}
8	43	NOT FOUND							
9	114	379	4:44	9	1.000	A BB	182919.	50.000 UG/L	7.81
10	84	116	1:27	1	0.466	A BB	2255.	3.003 UG/L	0.47 ^{UG/L}
11	96	NOT FOUND							
12	63	167	2:05	1	0.671	A BB	63397.	67.039 UG/L	10.48 ^{UG/L}
13	43	NOT FOUND							
14	96	224	2:48	1	0.900	A BB	8353.	10.399 UG/L	1.63 ^{UG/L}
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	270	3:22	9	0.712	A BB	342571.	198.429 UG/L	31.01 ^{UG/L}
18	117	NOT FOUND							
19	78	313	3:55	9	0.826	A BB	2174.	1.201 UG/L	0.19 ^{UG/L}
20	62	327	4:05	1	1.313	A BB	5295.	4.999 UG/L	0.78 ^{UG/L}
21	117	751	9:23	21	1.000	A BB	120822.	50.000 UG/L	7.81
22	130	397	4:58	9	1.047	A BB	3667.	2.204 UG/L	0.34 ^{UG/L}
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	562	7:01	21	0.748	A BB	4801.	2.164 UG/L	0.34 ^{UG/L}
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	856	10:42	21	1.140	A BB	1432.	1.202 UG/L	0.19 ^{UG/L}
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	317	3:58	1	1.273	A BB	54114.	50.405 UG/L	7.88
41	95	934	11:40	21	1.244	A BB	66638.	16.864 UG/L	7.32
42	98	555	6:56	21	0.739	A BB	167169.	16.495 UG/L	7.27

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30	1.00	10.000	0.02	38.06	50.00	0.397	0.469	0.76
4	0:37		10.000			50.00		1.152	
5	0:39	0.98	10.000	0.02	1.48	50.00	0.022	0.791	0.03
6	1:03	0.99	5.000	0.07	1.55	50.00	0.043	1.389	0.03
7	1:07	1.00	5.000	0.07	14.44	50.00	1.045	3.616	0.29
8	1:11		10.000			50.00		0.259	
9	4:45	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	1.00	5.000	0.09	3.00	50.00	0.053	0.876	0.06
11	1:40		5.000			50.00		0.941	
12	2:05	1.00	5.000	0.13	67.04	50.00	1.479	1.103	1.34
13	2:19		10.000			50.00		0.255	
14	2:49	0.99	5.000	0.18	10.40	50.00	0.195	0.937	0.21

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22	1.00	5.000	0.14	198.43	50.00	1.873	0.472	3.97
18	3:36		5.000			50.00		0.560	
19	3:55	1.00	5.000	0.17	1.20	50.00	0.012	0.495	0.02
20	4:04	1.00	5.000	0.26	5.00	50.00	0.124	1.236	0.10
21	9:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58	1.00	5.000	0.21	2.20	50.00	0.020	0.455	0.04
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.362	
27	7:03	1.00	5.000	0.15	2.16	50.00	0.040	0.918	0.04
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.746	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42	1.00	5.000	0.23	1.20	50.00	0.012	0.493	0.02
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	1.00	5.000	0.29	50.41	50.00	1.263	1.253	1.01
41	11:42	1.00	5.000	0.25	46.86	50.00	0.552	0.588	0.94
42	6:57	1.00	5.000	0.15	46.50	50.00	1.381	1.488	0.93

LIBRARY SEARCH
06/18/90 9:24:00 + 0:39
SAMPLE: SNL CO#337392 EPA#173900104 CASE#20124 ON#19
ENRANCED (5 158 24 BT)

CA. Hg. Cl
M. H. 1090
S. P. 6
KANK 1
IN 3
PUR 074

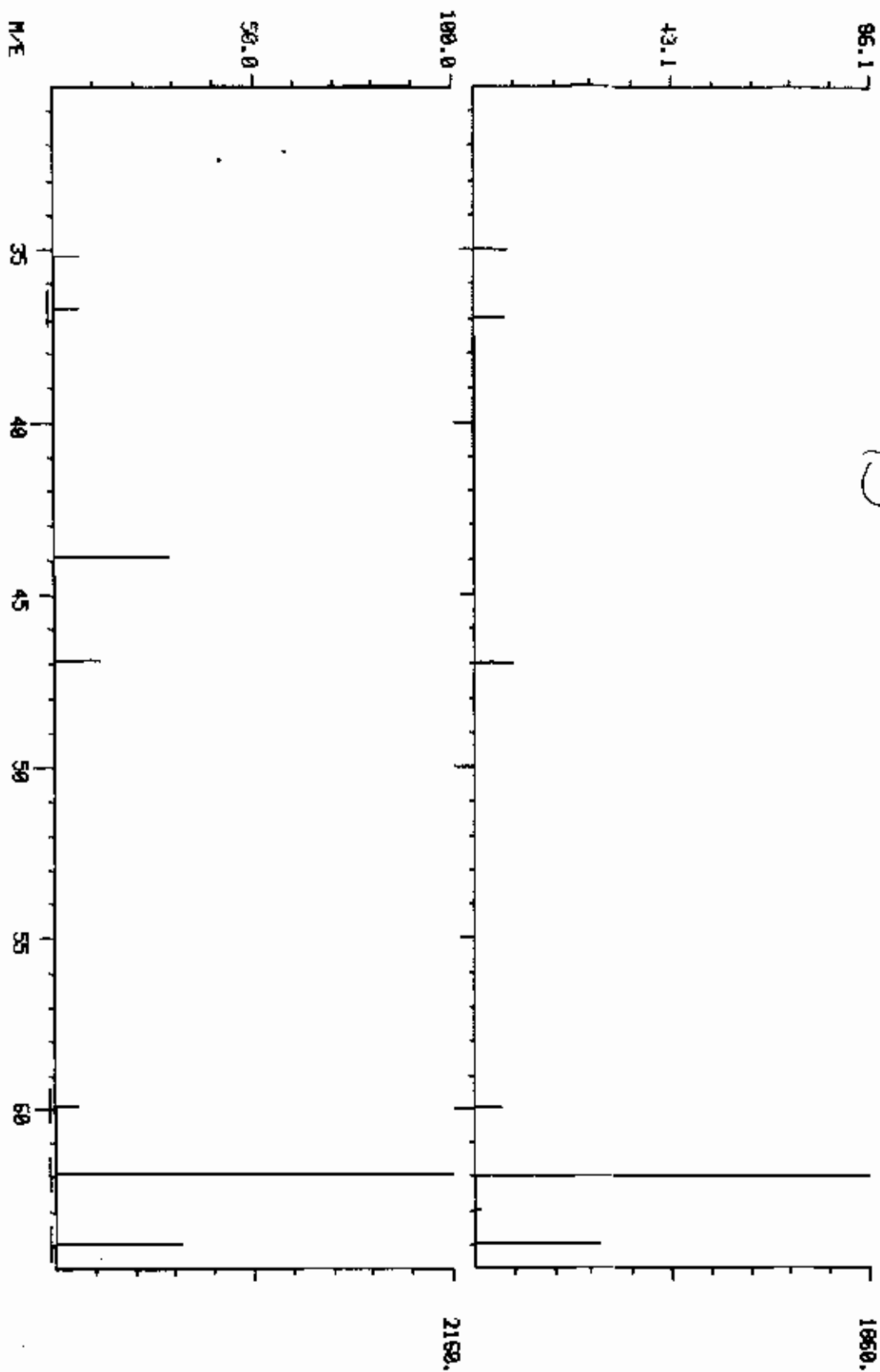


COMPUchem LABS

DATA: 08037392A19 #40

BASE M/E: 52/ 52
R/C: 3891./ 4891.

DUAL MASS SPECTRUM
08/15/90 01:24:08 + 01:30
SAMPLE: SNL 00037392 EPA# 73800104 CASE# 28124 QM# 19
ENRICHED (5 135 21) (231) UHMV CALORIDE (75-01-4) M293

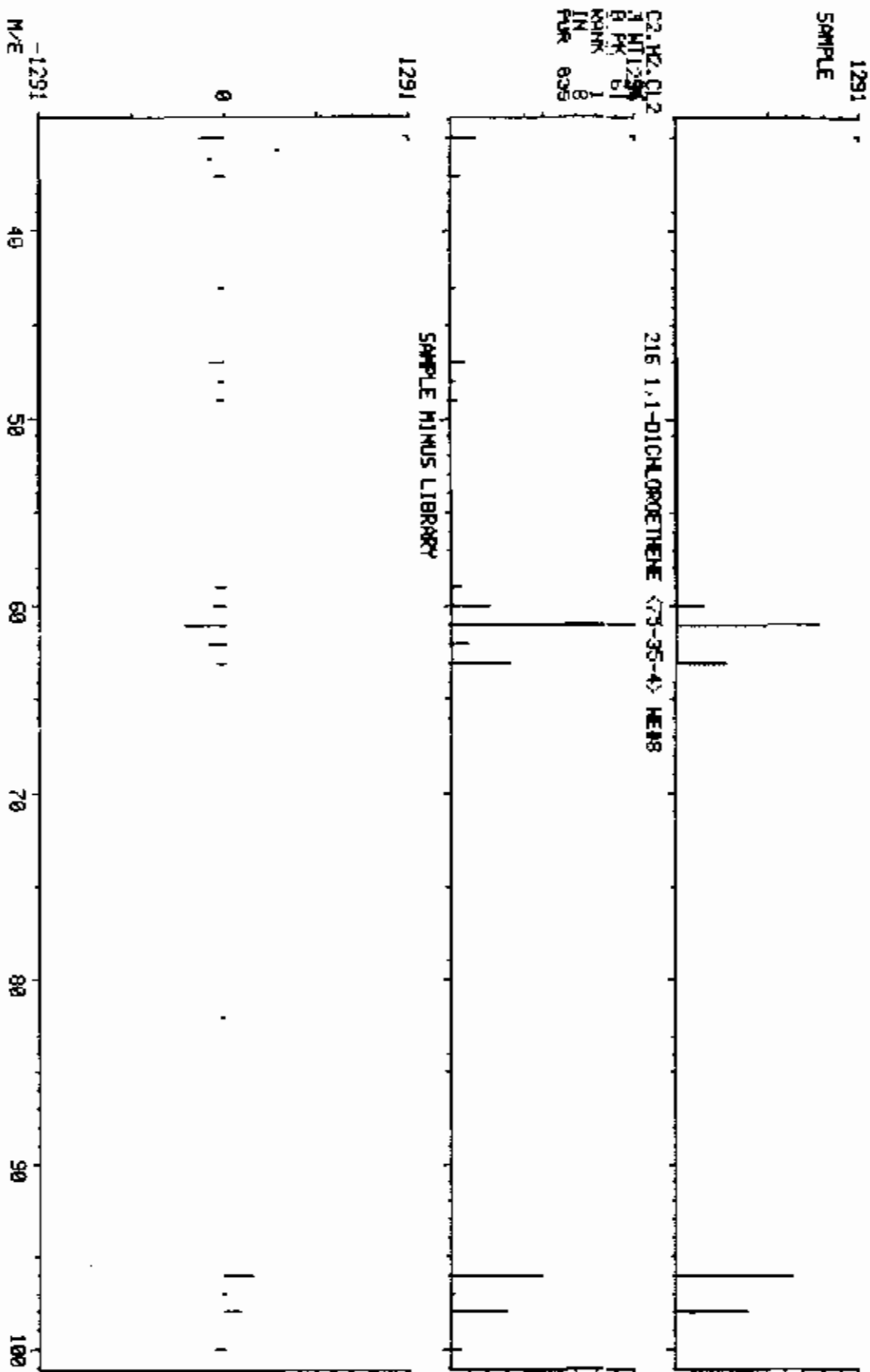


COMPUCHEN LABS

DATA: CH837392A19 # 93

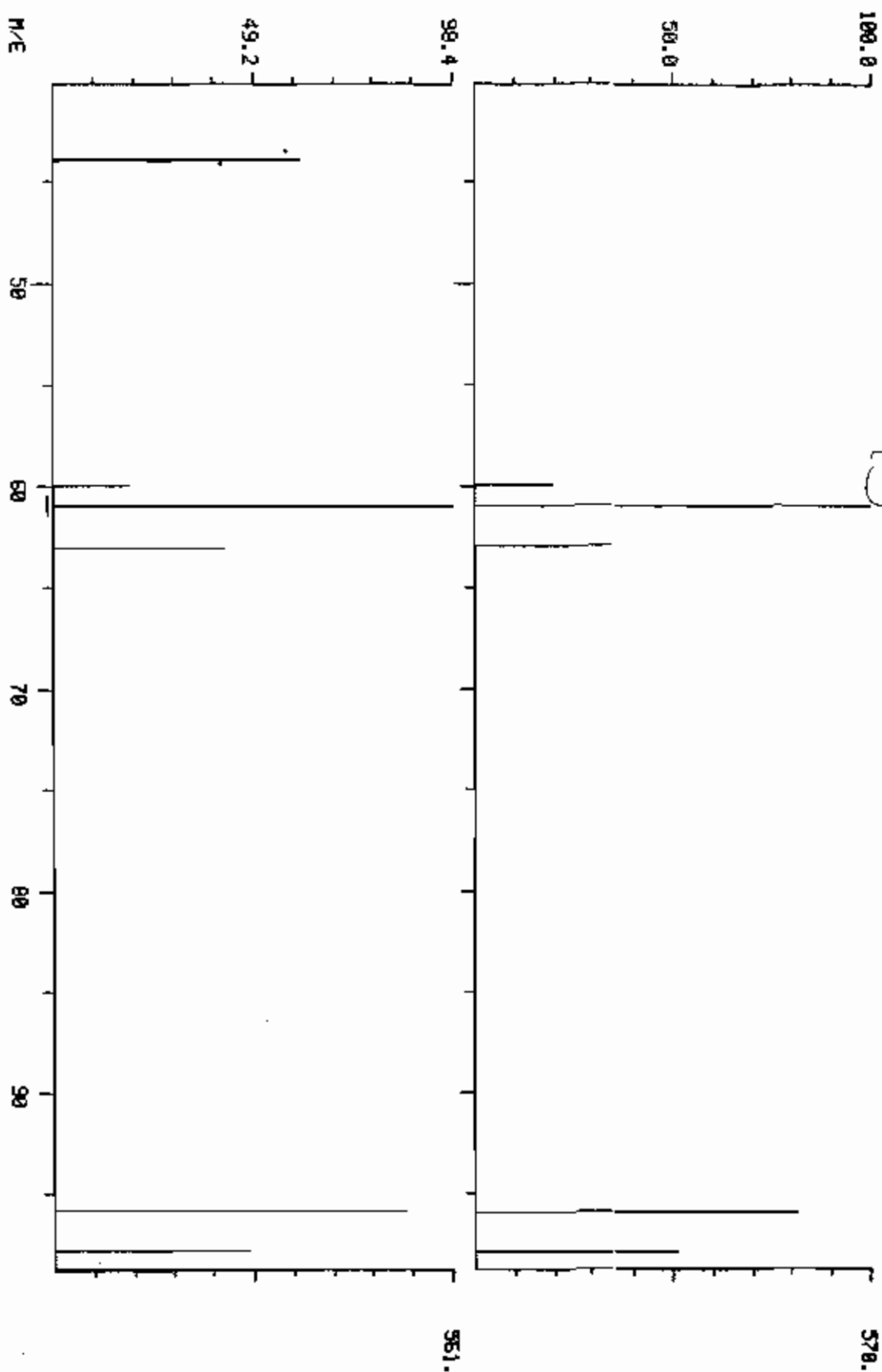
BASE M/EI 61
R/C 1692.

LIBRARY SEARCH
06/18/90 21:24:00 + 1.02
SAMPLE: 5ML CH837392 EPA#: 73800104 CASE#28124 ON#19
ENHANCED (5 158 2K BT)



COMPUchem LABS

DUAL MASS SPECTRUM
08/15/98 9:34:00 + 1.02
SAMPLE: 5ML C0833739Z EPA#173800104 CASE#20124 DM#19
ENHANCED (S 158 ZN) 216 1,1-DICHLOROETHENE (75-35-4) MS#8
DATA: C083739Z019 #83 BASE M/E: 51/ 51
RIC: 1633.7 2003.

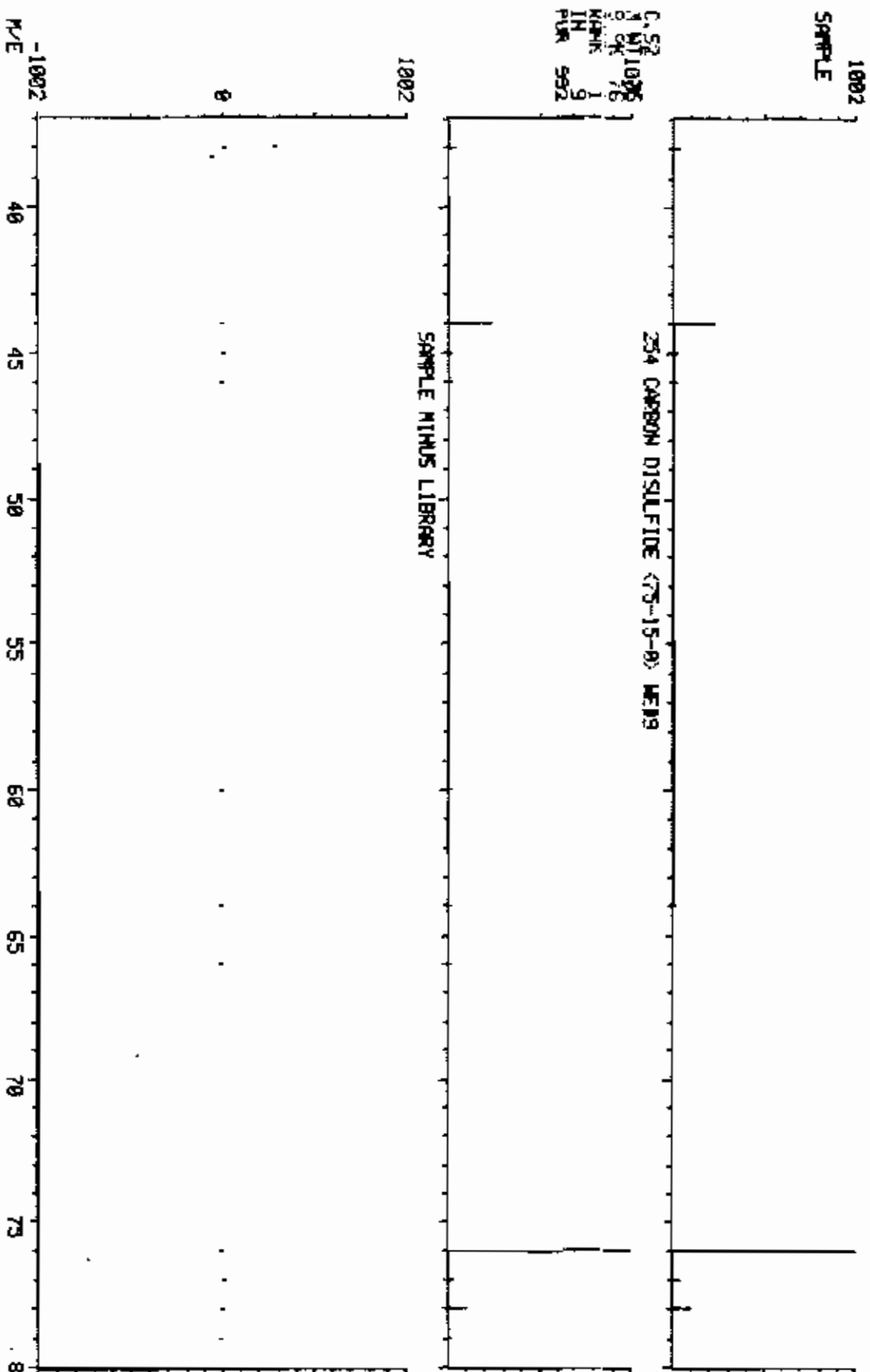


COMPUCHEM LABS

DATA: C0837392A19 # 89

BASE N/E: 76
R/C: 18289.

LIBRARY SEARCH
08/18/90 9:34:00 + 1.97
SAMPLE: SML C0837392 EPAN173800104 CASE#28124 DN#19
ENRICHED (5 158 21 81)

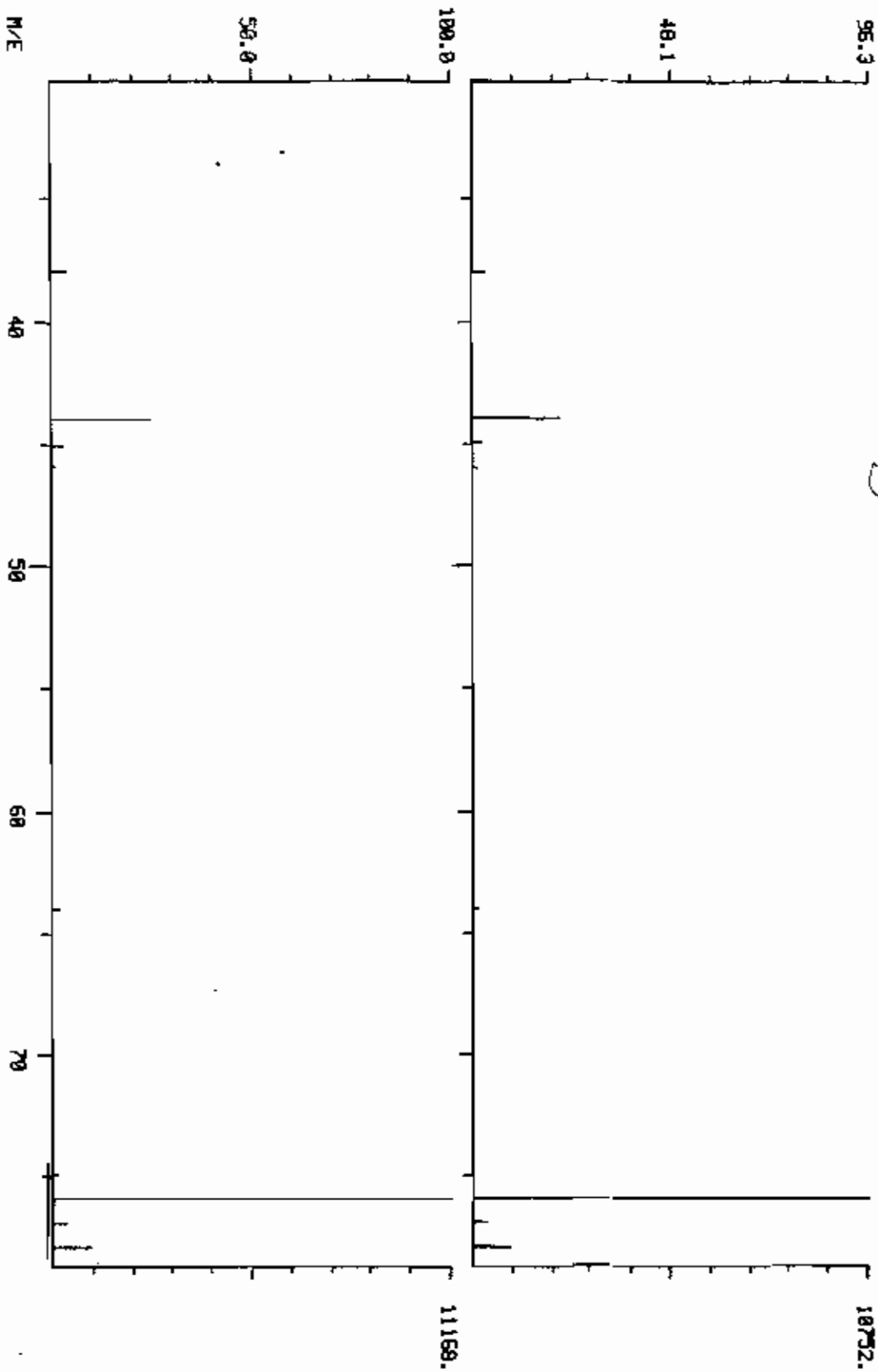


COMFUCHEM LABS

DATA: CN03292819 #99

BASE M/E: 76 / 76
RIC: 15359. ✓

DUAL MASS SPECTRUM
05/15/99 9:24:00 + 1.07
SAMPLE: SML CN0327392 EP08173800104 C65E020124 04#19
ENRICHED (5 100 21) 254 CARBON DISULFIDE (75-15-0) MEK3

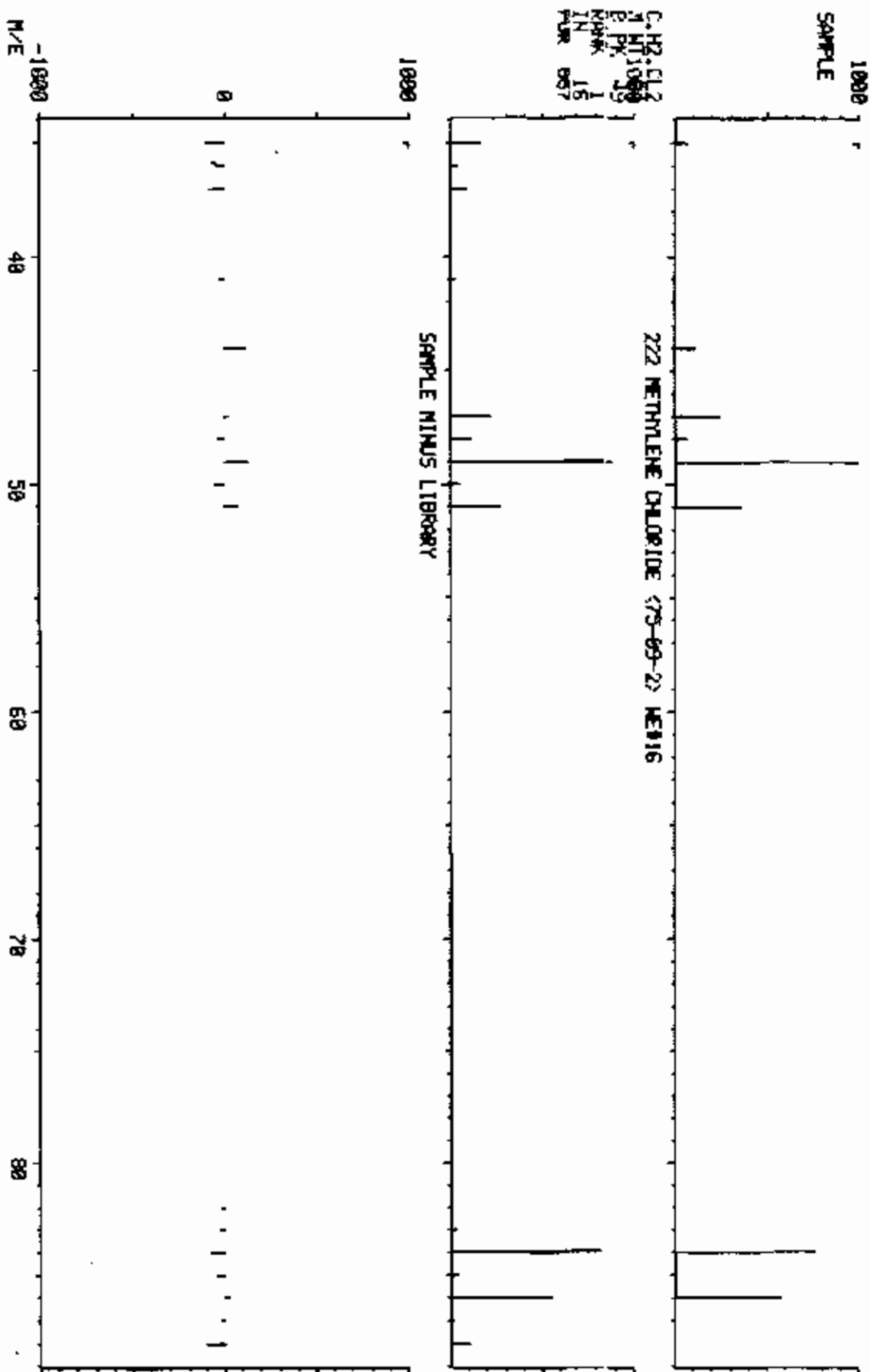


COMPUCHEN LABS

DATA# C0837392A19 # 116

BASE M/E: 49
R1C1 2899.

LIBRARY SEARCH
08/18/90 9:34:00 + 1:27
SAMPLE 9ML C0837392 EPA#173800104 CASE#20124 DM119
ENRICHED (S 158 24 0T)

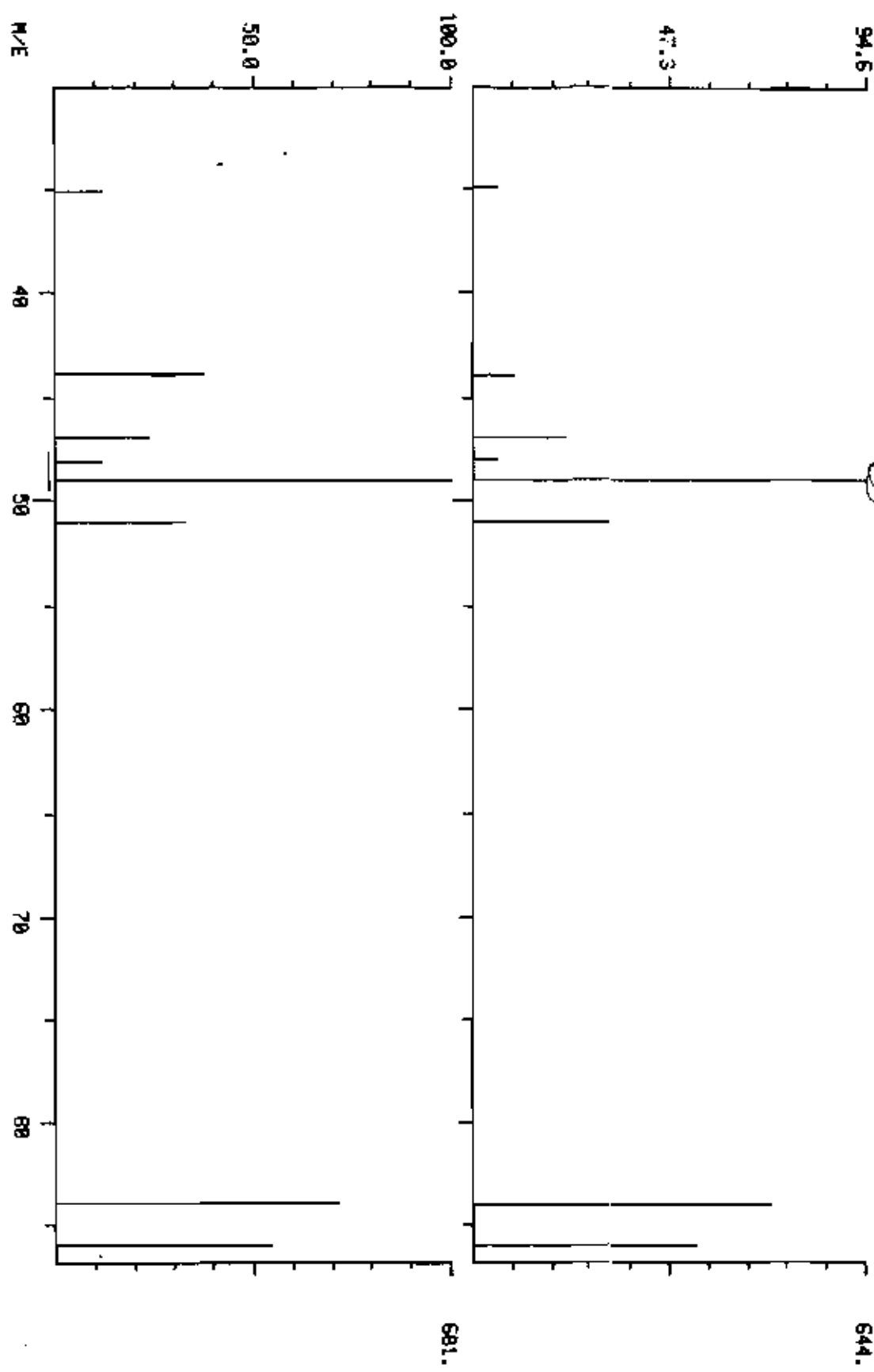


COMPUchem LABS

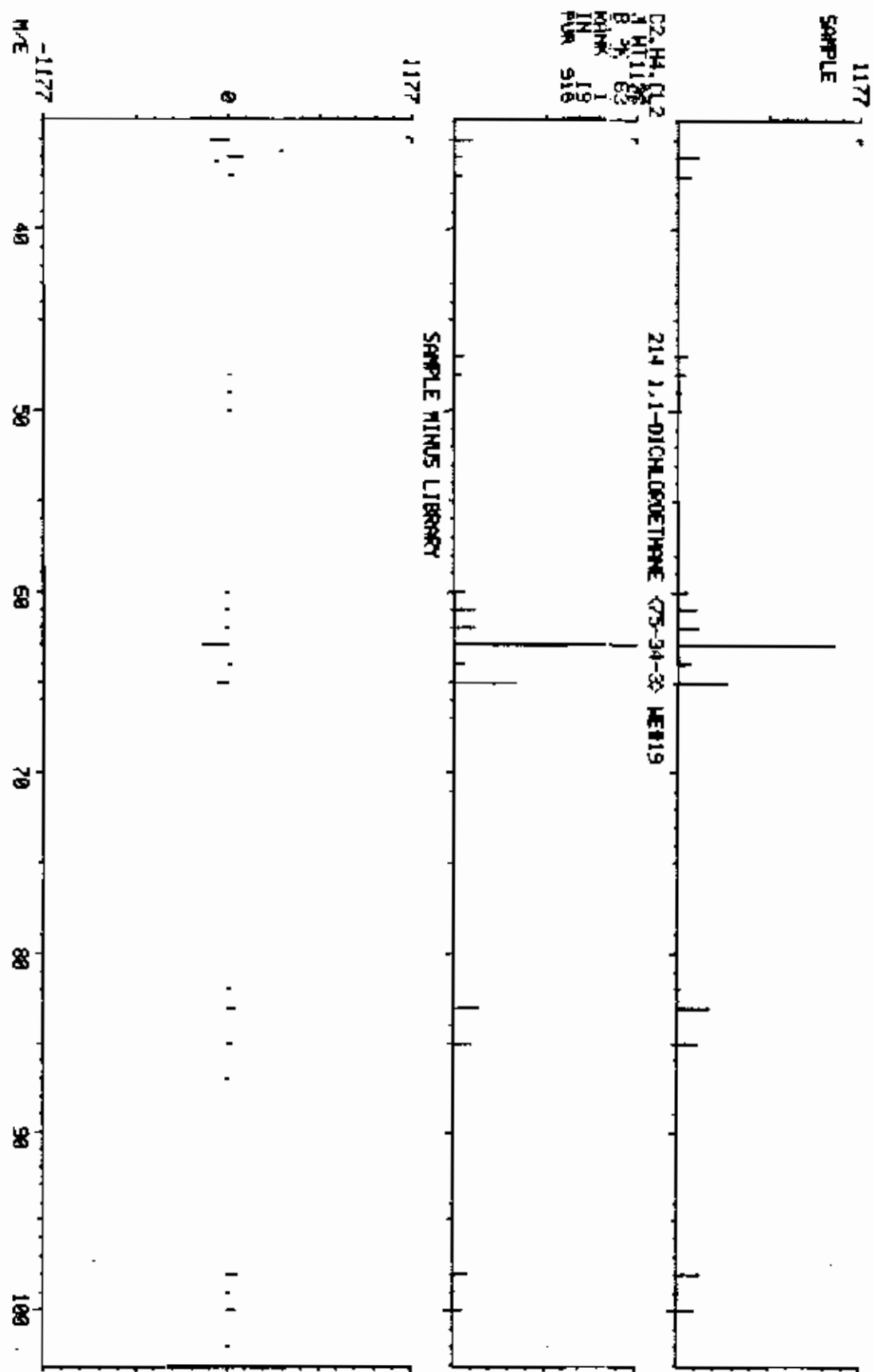
DATA: C0837392A19 #116

BASE M/E: 49/ 49
RIC: 2029. / 2325.

DUAL MASS SPECTRUM
08/18/99 01:24:00 + 11:27
SAMPLE: 54L C0837392 EPA#173800104 CASE#28124 DM#19
ENHANCED (5 158 2N) 222 NETHYLENE CHLORIDE (75-09-2) LE#16

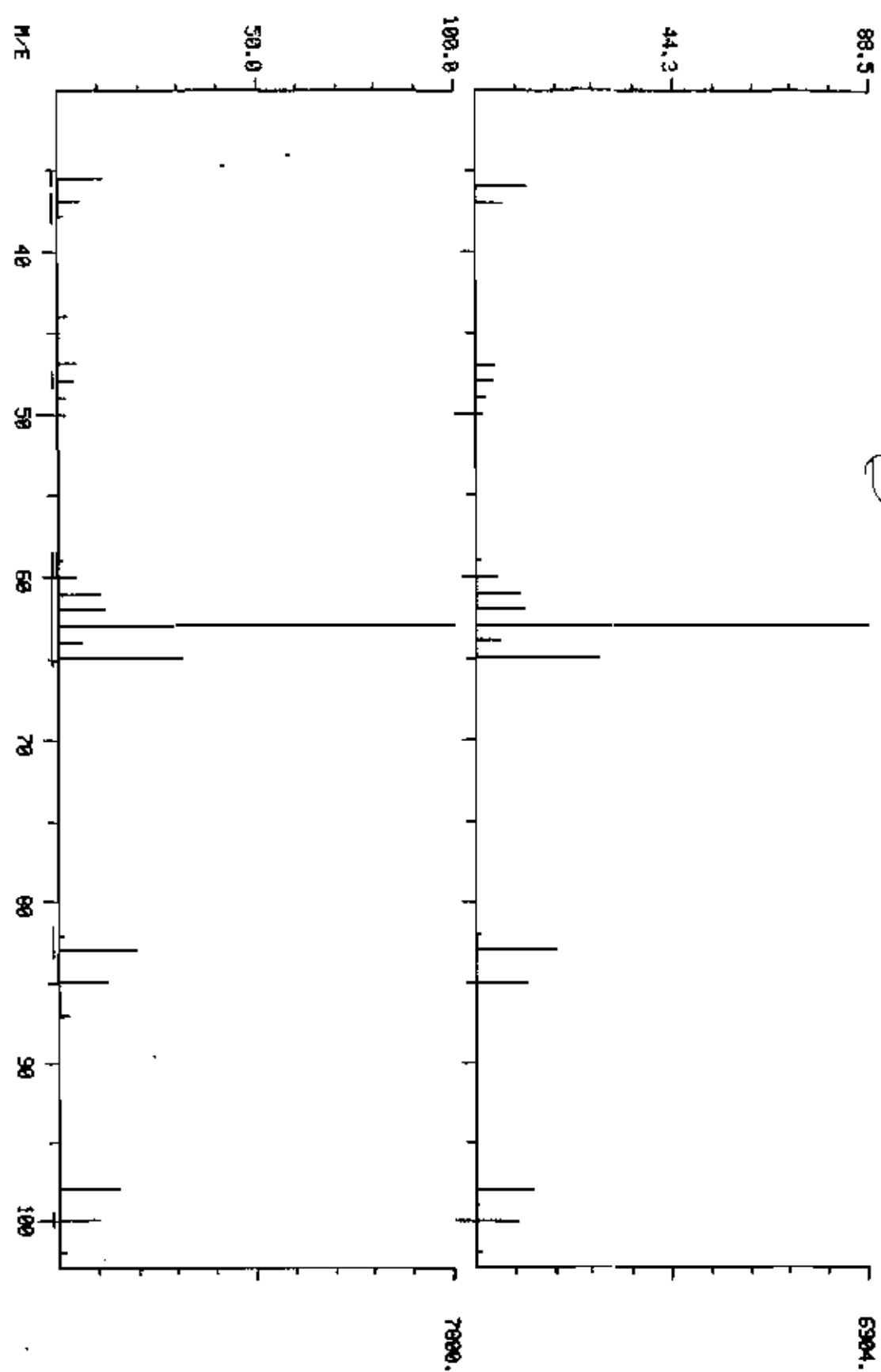


LIBRARY SEARCH
08/16/99 01:24:00 + 21.05
SAMPLE1 3ML CN037392 EPA#173800104 CPSE#20124 QM#19
ELUATED (5 158 24 07)

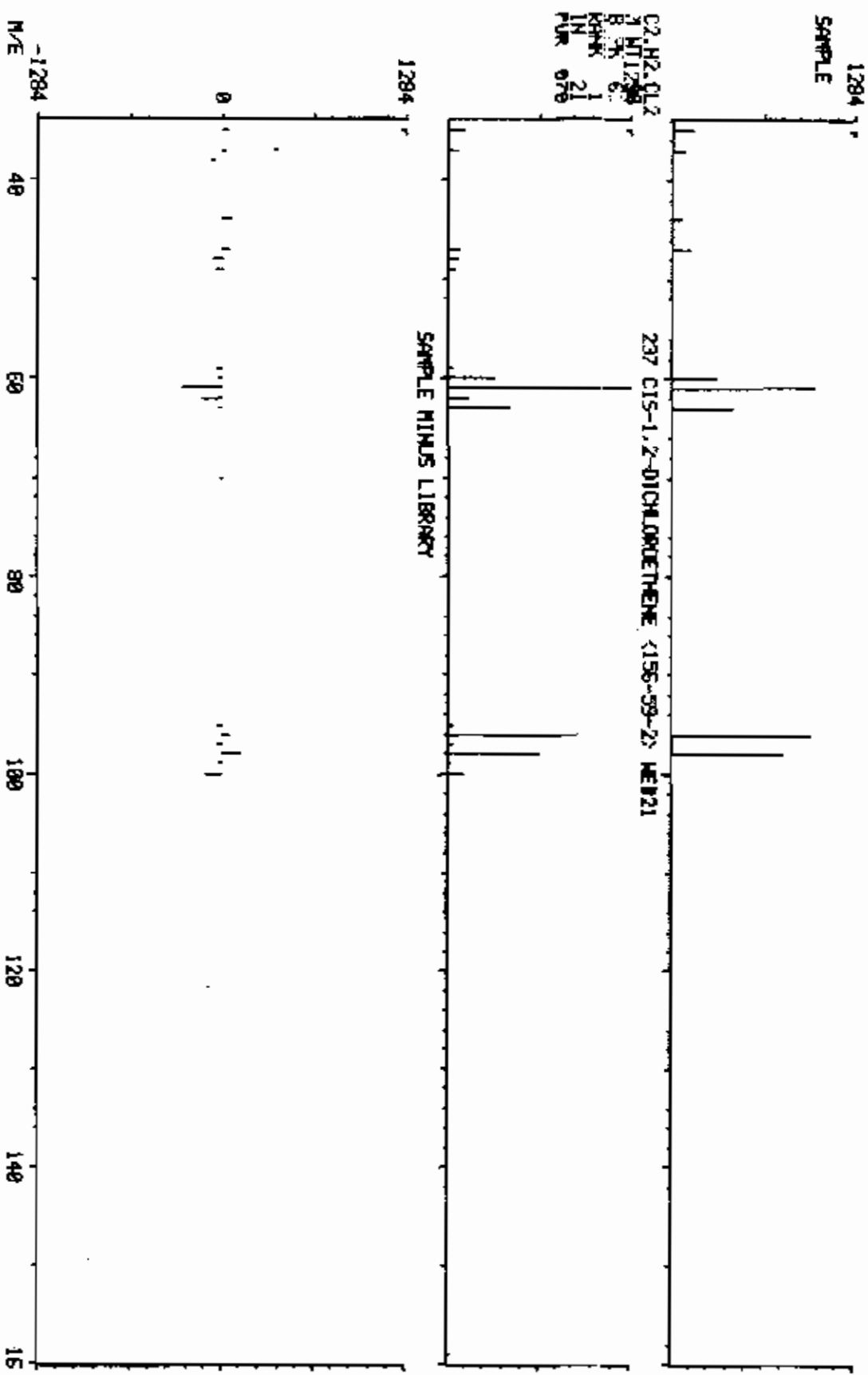


DUAL MASS SPECTRUM
05/15/98 9:24:00 + 21.05
SAMPLE 9ML C08337392 EP#0173800104 CASE#20124 ON#19
ENRICHED (5 158 21)

COMPUCHEM LABS
DATE: C0837392019 #167 BASE M/E: 63/ 63
R/C: 10239.7



LIBRARY SEARCH
08/18/98 9:34:00 + 24.48
SAMPLE 5ML CN037392 EPA#173800104 CASE#28124 ON#19
ENHANCED (S 198 2H 87)

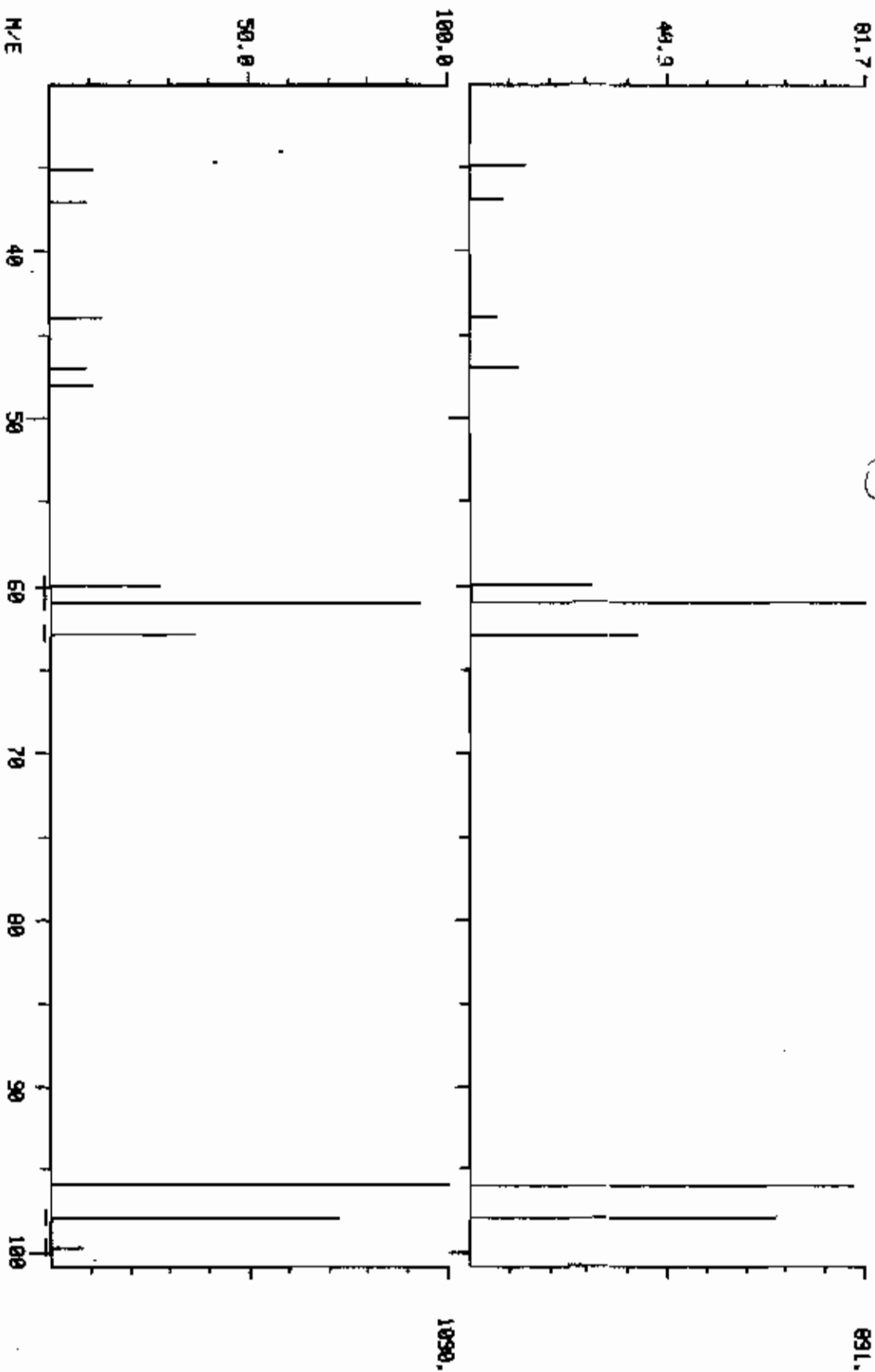


COMPUCHEM LABS

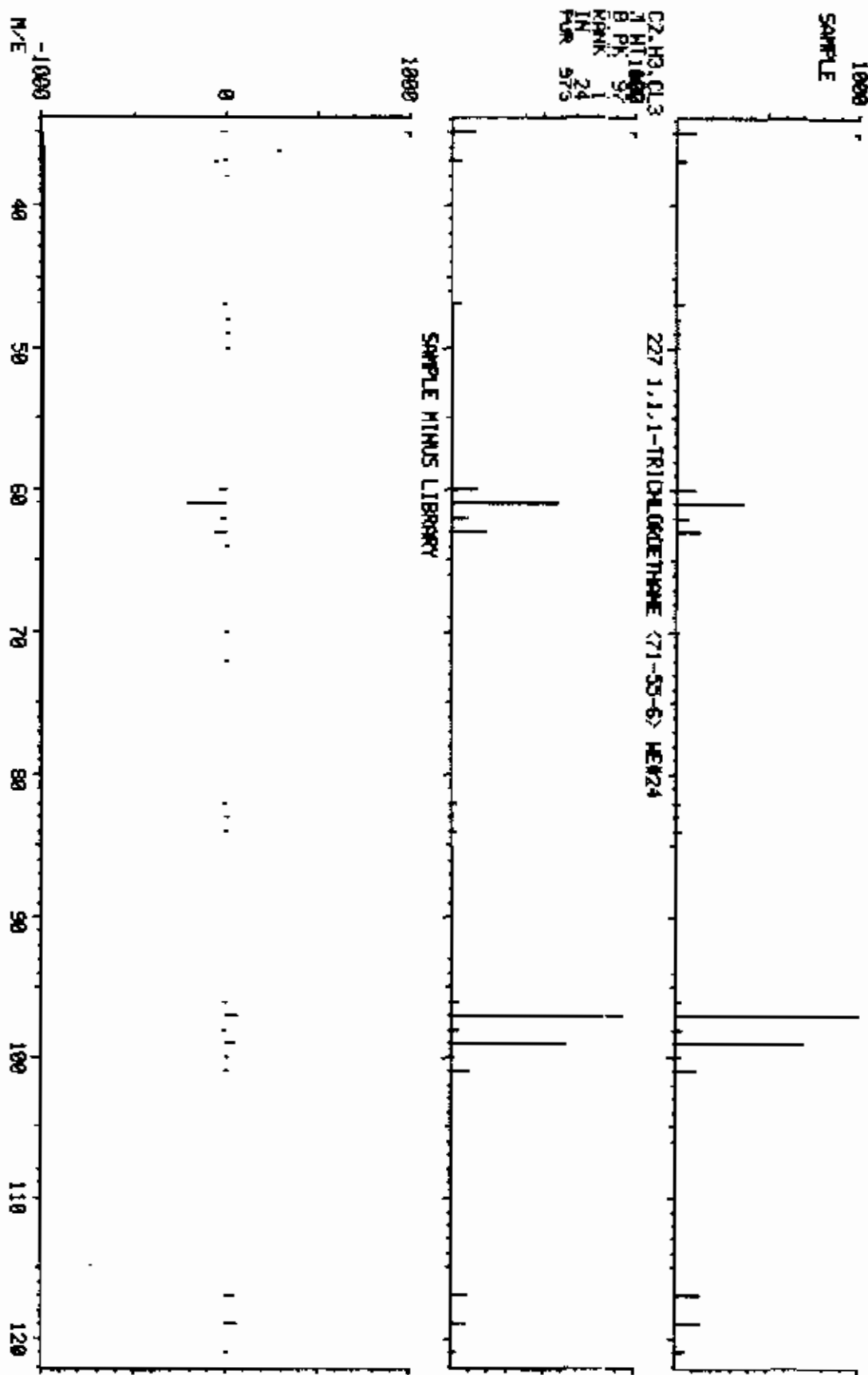
DATA: CN037392919 #224 BRSE M/EI 61/ 96

RIC: 2471.1/ 4288.

DUAL MASS SPECTRUM
05/15/90 01:24:00 L 2r48
SAMPLE SWL CC#037392 EPA#1 73800104 CASE#20124 ON#19
ENRICHED (5 138 211) ²³⁷ C15-1,2-DICHLORETHENE (156-59-2) W#121



LIBRARY SEARCH
06-15-90 9:24:00 + 3:22
SAMPLE: 06L C04037392 EPRM: 73800104 CASE#20124 QM#19
ENHANCED (5 158 24 0T)



C2-H3 CL3
THT1000
BPK 97
KPKK 24
IN 24
PUR 979

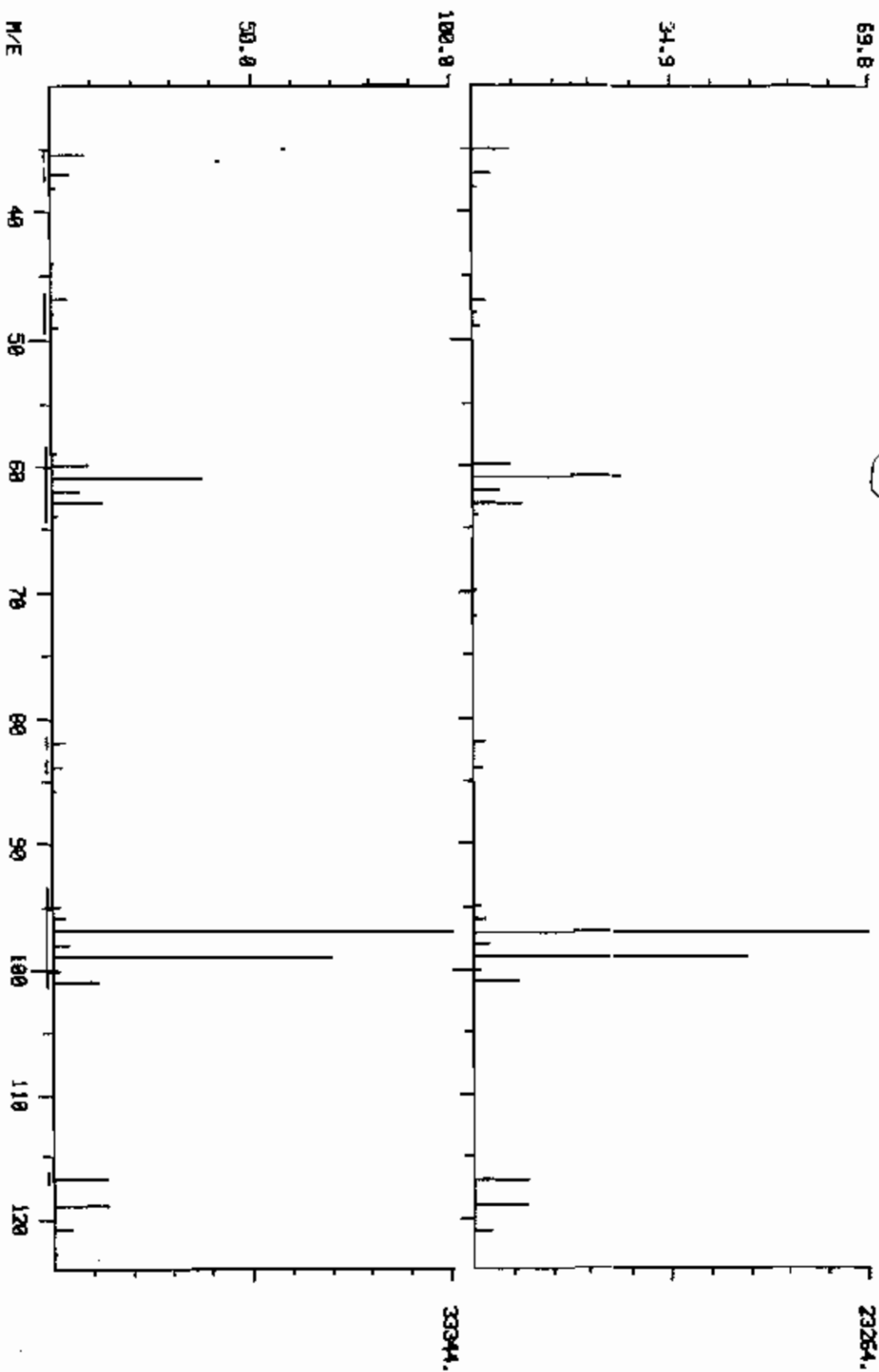
SAMPLE MINUS LIBRARY

227 1,1,1-TRICHLOROETHANE (71-55-6) HEWZ4

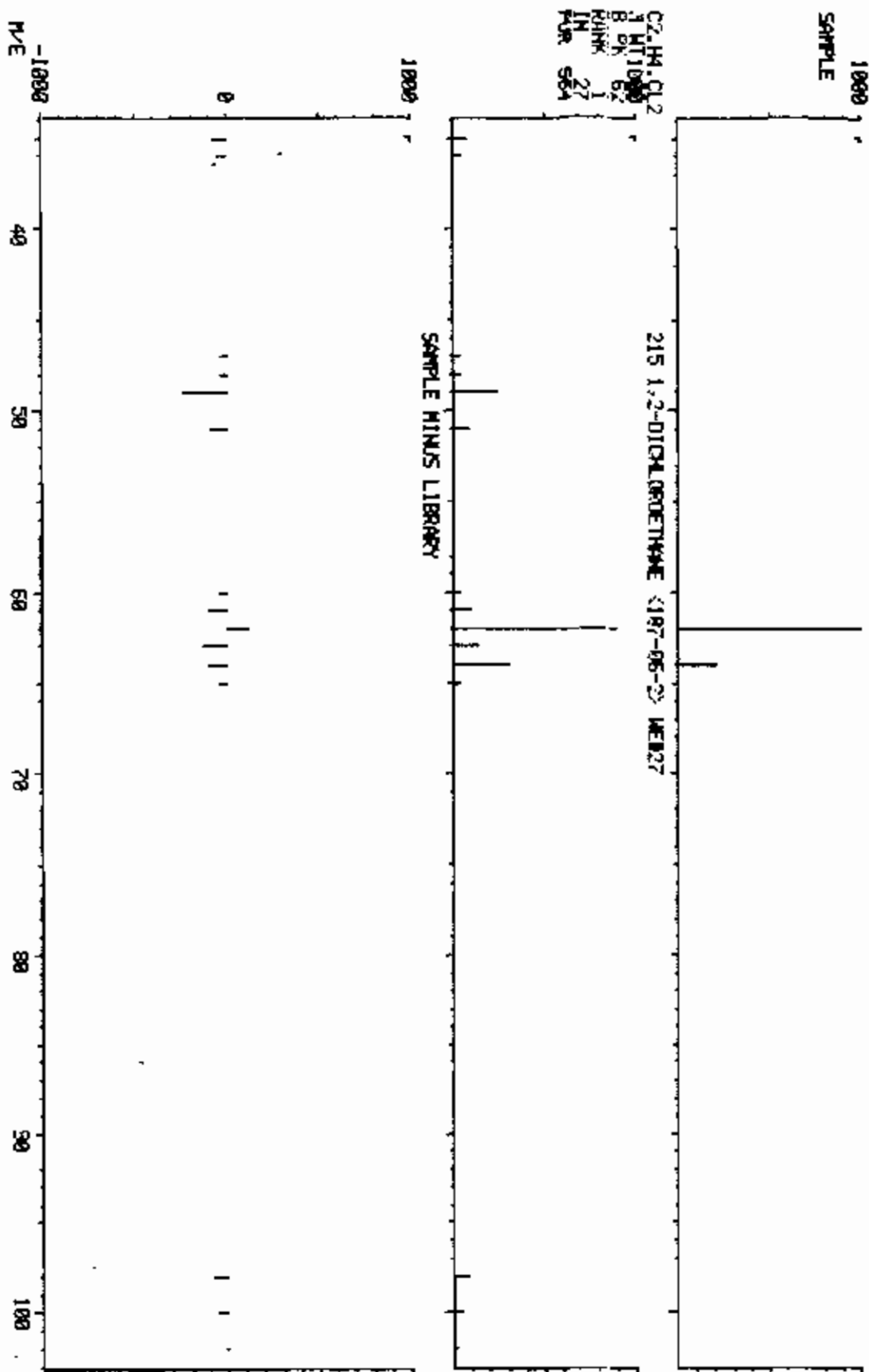
COMPUCHEM LABS

DATA1 C0837392A19 #278 BASE M/E 97/ 97
R/C 72899.1 106111.

DUAL MASS SPECTRUM
08/16/98 8:24:00 + 31.22
SAMPLE: SWL C0837392 EP0417380104 C083739124 04#19
ENHANCED (5 128 24) ZZ 1,1,1-TRICHLOROETHANE (71-55-6) #224



LIBRARY SEARCH
08/18/90 9:34:00 + 4.05
SAMPLE: SML DC037392 EPA#173800104 CASE#20124 CH019
ENRICHED (5 159 24 01)

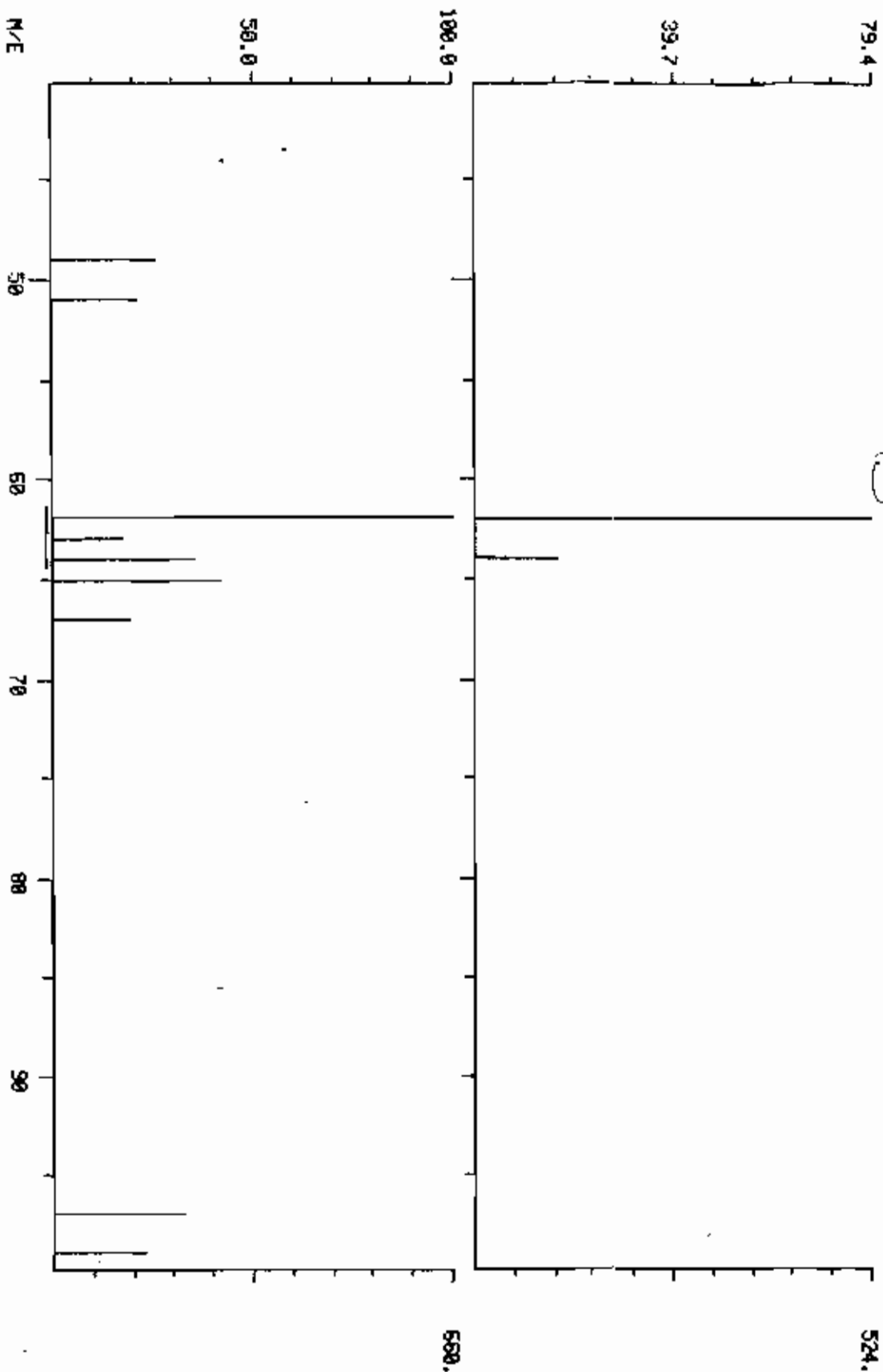


COMPUCHEM LABS

DATA: CN037392A19 #377

BASE M/E: 52 / 52
RICI 521.1 / 2095.

DUAL MASS SPECTRUM
05/15/90 01:24:00 + 4.00
SAMPLE: SML CN037392 EP0179800104 CASE#28124 ON#19
ENHANCED (5 158 2N) 215 1,2-DICHLOROETHANE (107-06-2) W#27

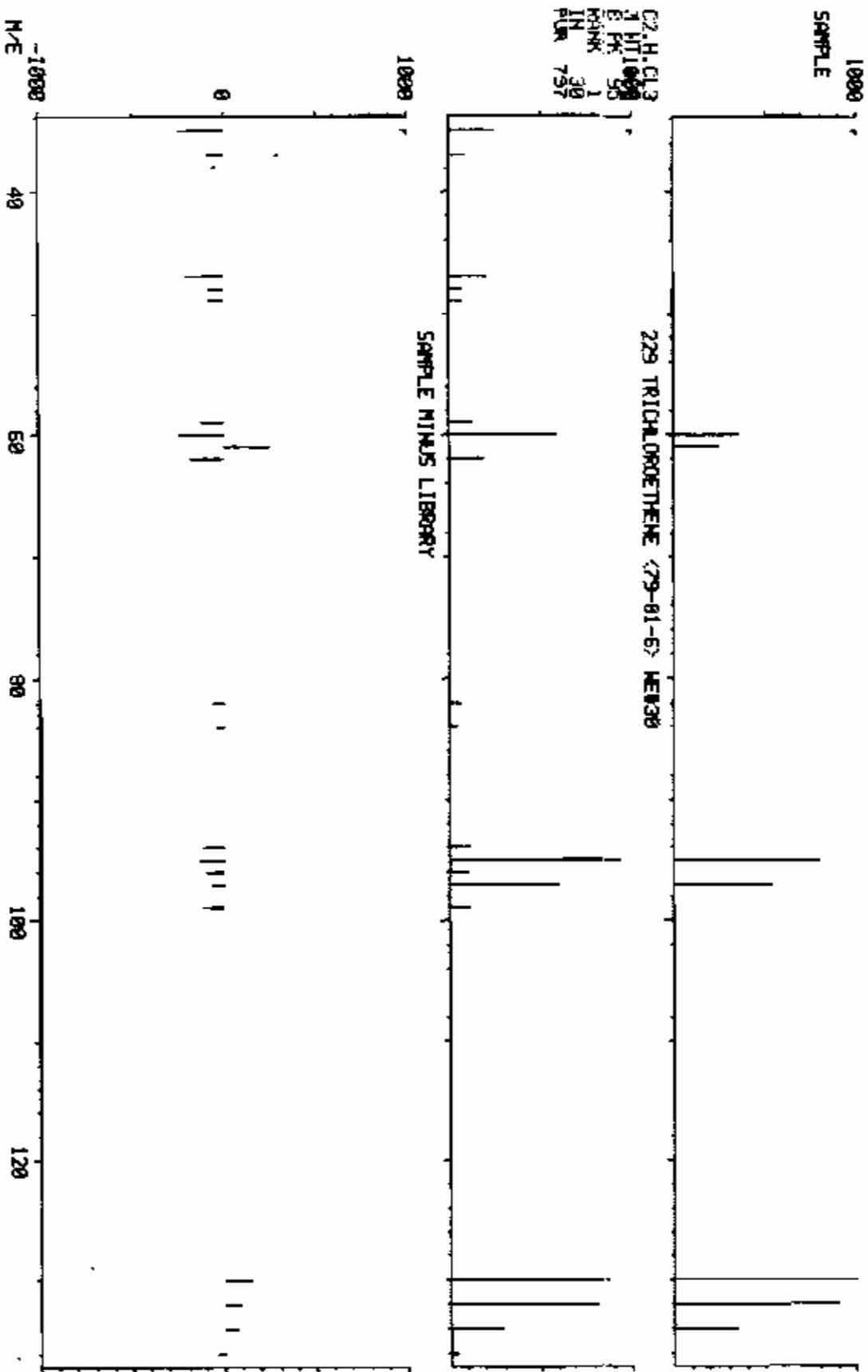


COMPUCHEN LABS

DATA: C0837392A19 # 397

BASE M/E: 130
R1C1 1481.

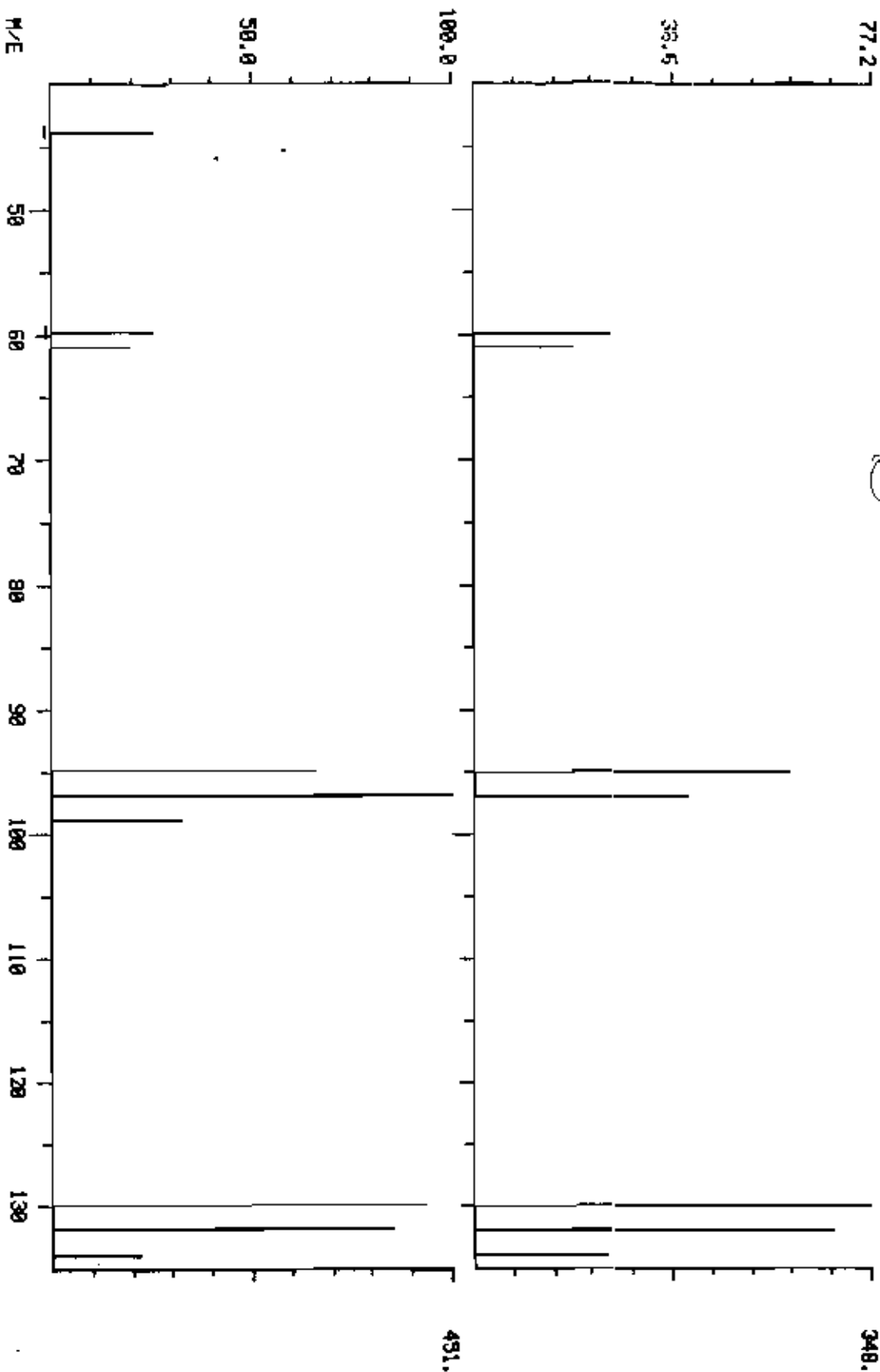
LIBRARY SEARCH
08/18/98 9:24:00 + 4:58
SAMPLE: 5M C0837392 EPA# 73800104 CASE#20124 ON#19
ENRICHED (5 108 24 81)



COMPOUNH LABS

DATA1 CN03732219 #397 BASE M/E: 130/ 97
RT1 1451.7

DUAL MASS SPECTRUM
08-18-99 9:24:00 + 4.68
SAMPLE: 5ML CC03739Z EP-9417380104 CASE#28124 CN#19
ENHANCED (5:158.2N) 223 TRICHALOROETHENE (73-01-6) MS#38

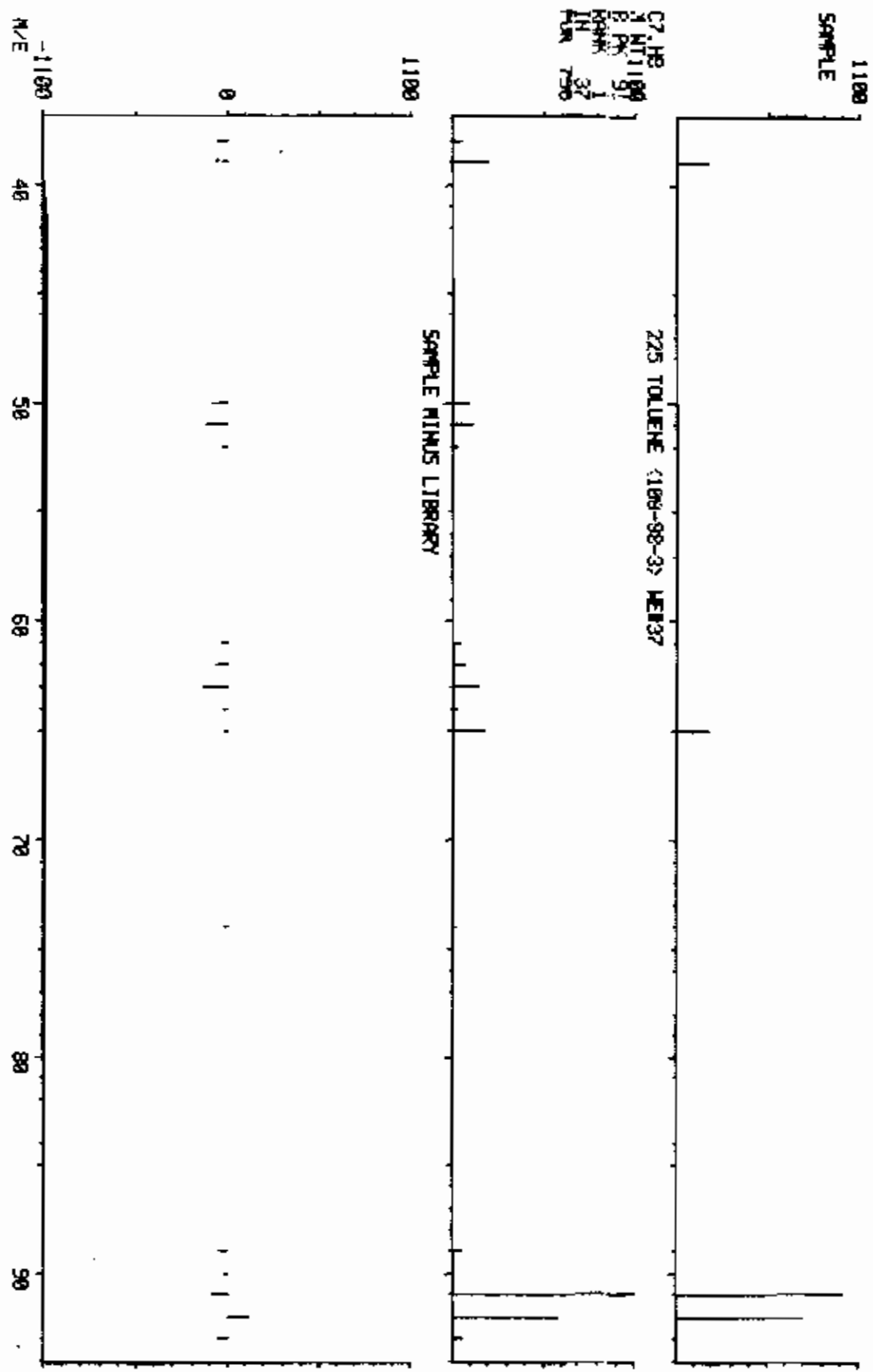


LIBRARY SEARCH
06/15/90 9124100 + 7%01
SAMPLE: 5ML CC#37392 EPR#17380104 CASE#20124 QM#19
ENHANCED (5 158 2H 0T)

COMPUCHEN LABS

DATA1 C#037392A19 # 562

BASE N/E1 91
R/C1 1429.

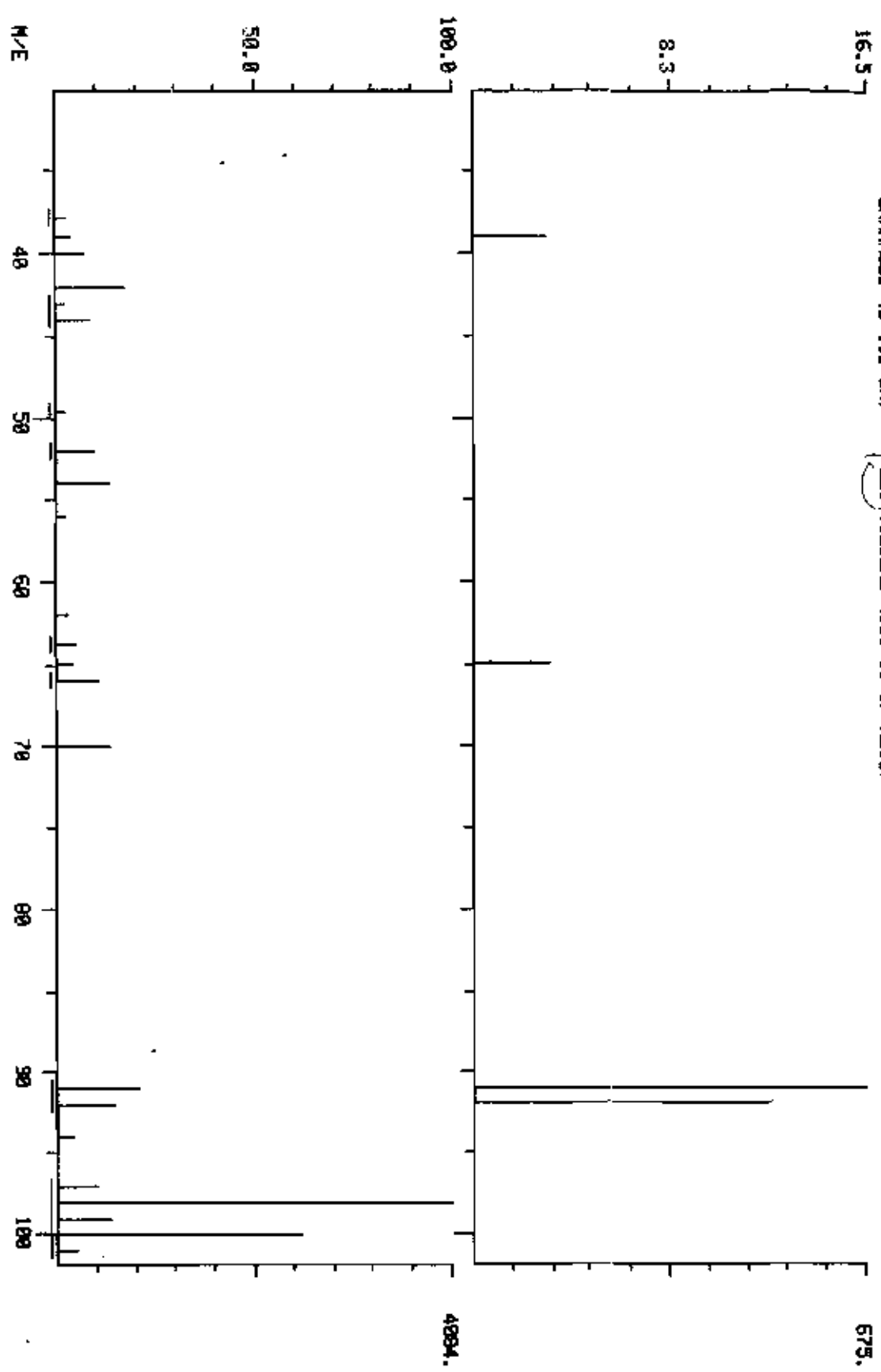


COMPUchem LABS

DUAL MASS SPECTRUM
02/18/99 09:24:00 + 74.91
SAMPLE 5M COM37392 EPA#173800104 CASE#28124 QM#19
ENHANCED (S 128 2M) 225 TOLUENE (108-88-3) REF#37

DATA: COM37392A19 #562

BASE M/E 91 / 98
R10 1498. / 13652.



RECEIPT DATE: 05/08/90 CASE#: 20124

VOA
GC/MS WORKSHEET COMPUTHERM: 337392

JE] J3C] DC] (])
EJC] J4C] D2C] (])

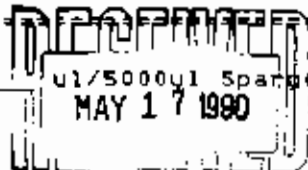
GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code--- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

SAMPLE ID#: 73900104

GC/MS ANALYSIS

Amount Purged: [] 5 ml or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename CN037-392A19 Disk ()



ANALYST(S): Injection 1492/Alan Fish Work-up 1492/Alan Fish

GC/MS REVIEW

CONDITION CODE



Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 0 [] Reinject Neat

Quality Assurance Notice(s):

Notices Required 0 [] Dilute ()

COMMENTS:

#GC/MS Review OK Date 5/16/90 Auditor _____ Date ____/____/____

REPORT INTEGRATION

Final Reportable Package(s): CN1-A19 Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	249	42900	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE			58.1	38	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE			1.9	600 20	10
216	96	1,1-DICHLOROETHENE			1.9	2J	5
254	76	CARBON DISULFIDE			14.4	14	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	379	183000	50.0		
222	84	METHYLENE CHLORIDE			3.0	3J 6	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE			67.0	67	5
257	43	VINYL ACETATE				BDL	10
207	96	CIS-1,2-DICHLOROETHENE			10.4	10	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE			198.0	200	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE			1.2	BDL 10	5
213	62	1,2-DICHLOROETHANE			5.0	5	5
270	117 I	DS-CHLOROGENE (IS)	791	121000	50.0		
229	130	TRICHLOROETHENE			2.2	2J	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE			2.2	2J	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE			1.2	BDL 10	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			50.4	101.2	
247	98 S	BROMOFLUOROBENZENE			46.9	94.2	
233	98 S	D8-TOLUENE WE#59 SS#2			46.5	93.2	
289	106	XYLENES (TOTAL)			1.2	BDL 10	5

CORRECTED/REVIEWED BY DKJL
(SC/MS DATA REVIEWER)DATE 5-16-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)			10.4	10	10
CHECKSUMS:							
		3979.	1379	346900.	651.1		358.

CORRECTED/REVIEWED BY *Olga J. L.*
(GC/MS DATA REVIEWER)DATE 5-16-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLORDETHANE WE#57	50.4	50.0	101.	76-114	X	
41	247	BROMOFLUOROBENZENE	46.9	50.0	94.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	46.5	50.0	93.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

5000 UL	=	
VOLUME OF SAMPLE PURGED (UL)		
5000 UL	=	5.000 ML
5000. (UL)	= 1.00 =	5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *[Signature]*
(CC/MS DATA REVIEWER)DATE 5-16-90

QUALITY ASSURANCE NOTICE

CompuChem # 377392
 Blank ID # CB400715015
 Case 20134

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8242" and "Semi-volatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/kg; acetone may not exceed 50 ug/kg. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
 Manager, Quality Assurance

C-4295
 6-1026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800105

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337832
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037832A19
 Level: (low/med) LOW Date Received: 05/08/90
 % Moisture: not dec. _____ Date Analyzed: 05/15/90
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	3	J
75-09-2	Methylene Chloride	4	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	50	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	19	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	8	
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800105

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337832

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN017812A19

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHANE, 1,1'-OXYBIS-	0.95	6.0	J
2. 109-87-5	METHANE, DIMETHOXY-	1.15	13	J
3.	LABORATORY ARTIFACT	0.43	2.0	J

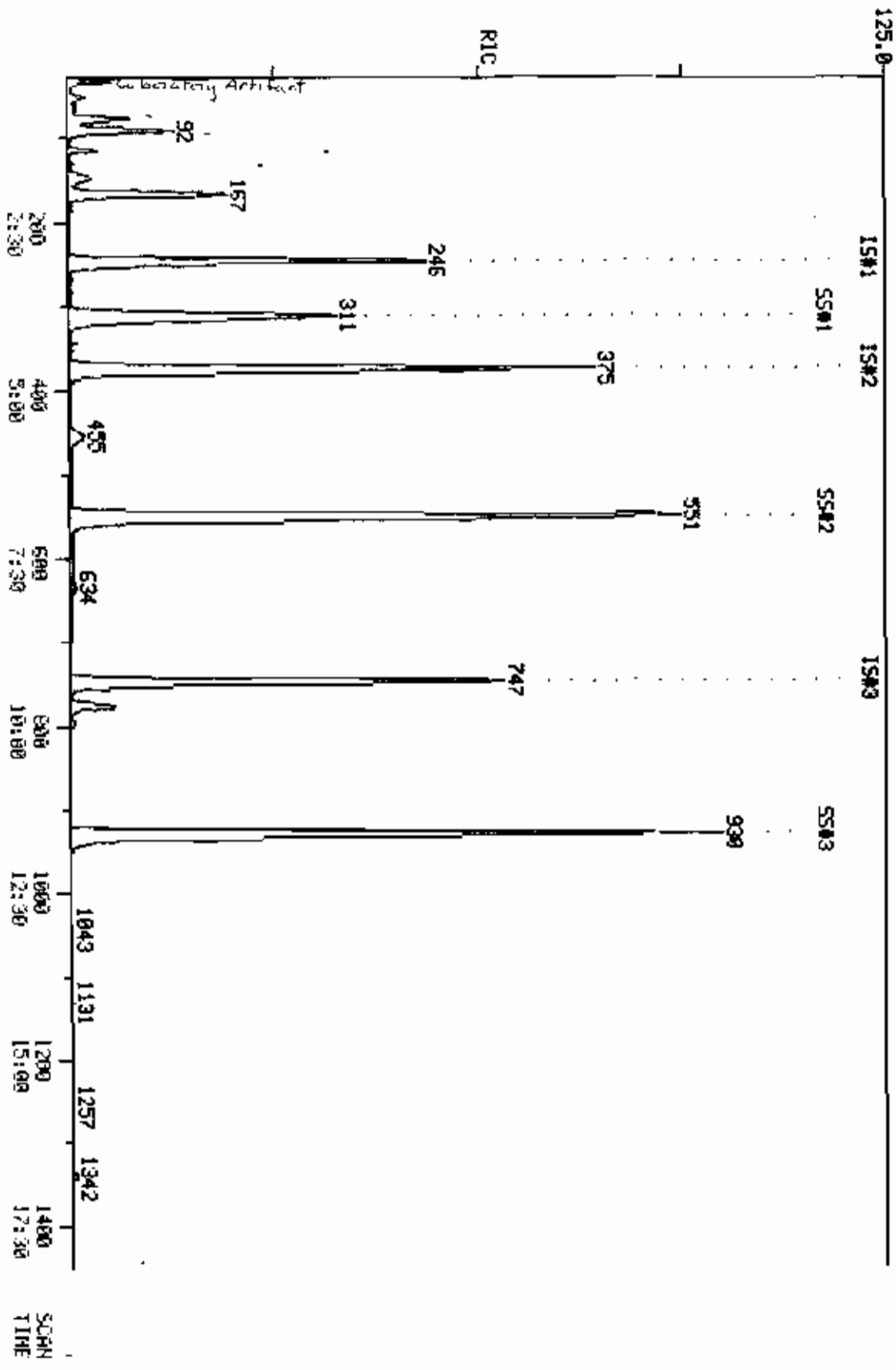
FORM I VOA-TIC

1/87 Rev.

RIC
 05/15/98 10:14:00
 SAMPLE 57L C08337832 EPA#5173800105 CASE#28124 ON#19
 COND# 1

COMPUchem LABS
 COMPUchem DATA OUT#27022019 SCANS 29 TO 1450

77848.



QUANTITATION REPORT FILE: CN037832A19
 DATA: CN037832A19.T1
 05/15/90 10:14:00
 SAMPLE: 5ML CC#037832 EPA#: 73800105 CASE#20124 CN#19
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1492

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-93-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-8> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#56 SS#3
42	*233 O8-TOLUENE WE#59 SS#2

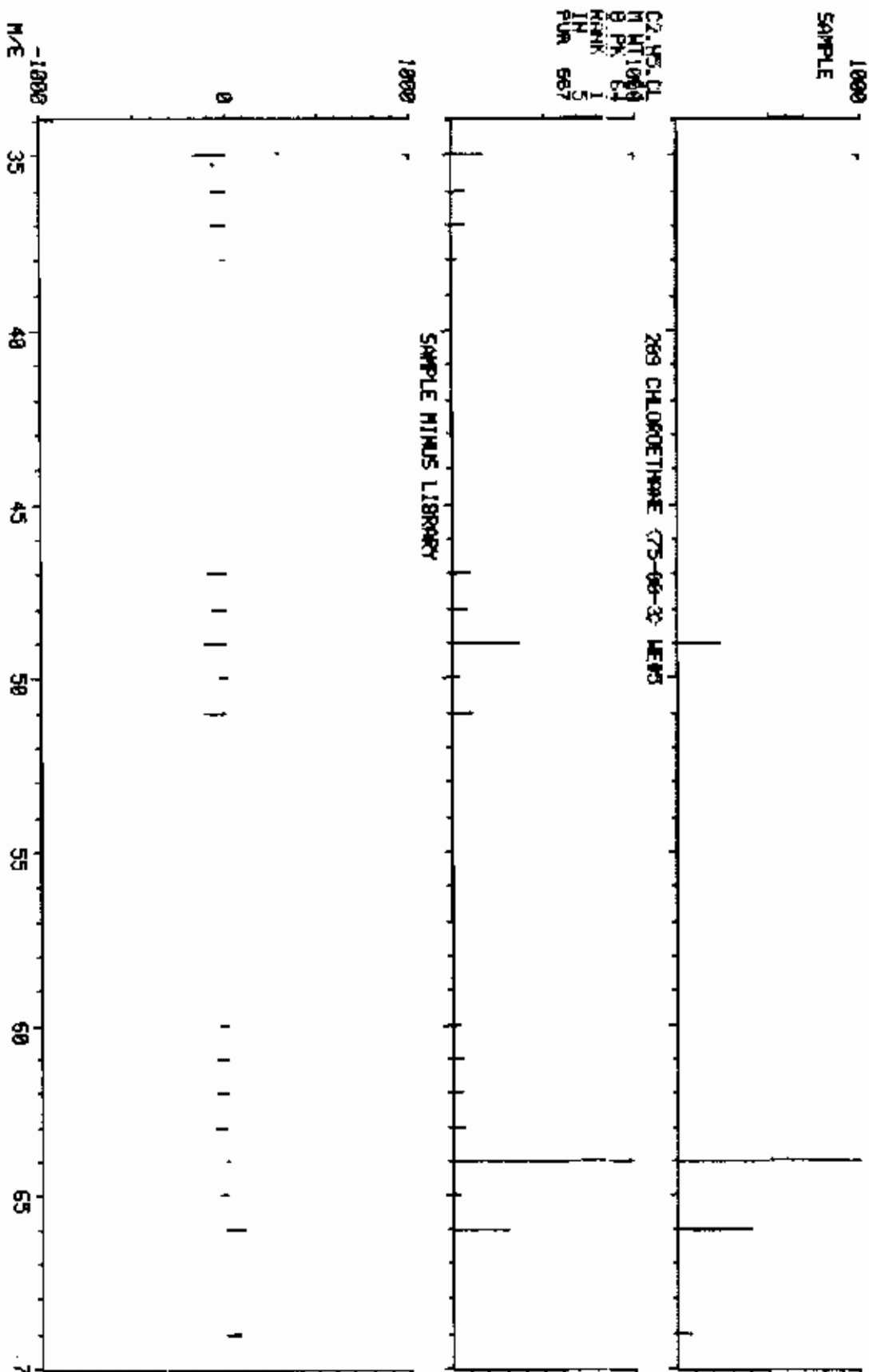
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	246	3:04	1	1.000	A B9	42902.	50.000 UG/L	12.24
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	51	0:38	1	0.207	A BB	2150.	3.336 UG/L	0.825
6	96	NOT FOUND							
7	76	88	1:06	1	0.358	A BB	9731.	3.136 UG/L	0.77
8	43	92	1:09	1	0.374	A BB	850.	3.823 UG/L	0.94
9	114	375	4:41	9	1.000	A BB	189244.	50.000 UG/L	12.24
10	84	115	1:26	1	0.467	A BB	3167.	4.213 UG/L	1.03
11	96	NOT FOUND							
12	63	167	2:05	1	0.679	A BB	46912.	49.554 UG/L	12.13
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	310	3:52	9	0.827	A BB	34832.	18.602 UG/L	4.55
20	62	321	4:01	1	1.305	A BB	6123.	5.774 UG/L	1.41
21	117	747	9:20	21	1.000	A BB	120214.	50.000 UG/L	12.24
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	750	9:22	21	1.004	A BB	9757.	5.438 UG/L	1.33
34	106	776	9:42	21	1.039	A BB	6786.	7.911 UG/L	1.94
35	106	776	9:42	21	1.039	A BB	6786. 1152	8.840 0.94	1.43
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	313	3:55	1	1.272	A BB	58863.	54.770 UG/L	13.41
41	95	930	11:37	21	1.249	A BB	66689.	47.137 UG/L	11.54
42	98	551	6:53	21	0.738	A BB	175093.	48.945 UG/L	11.98

NO	RET (L)	RATIO	RRT (L)	RATIO	AMNT	AMNT (L)	R. FAC	R. FAC (L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39	0.98	10.000	0.02	3.34	50.00	0.050	0.751	0.07
6	1:03		5.000			50.00		1.389	
7	1:07	0.99	5.000	0.07	3.14	50.00	0.227	3.616	0.06
8	1:11	0.97	10.000	0.04	3.82	50.00	0.020	0.299	0.08
9	4:45	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	0.99	5.000	0.09	4.21	50.00	0.074	0.876	0.08
11	1:40		5.000			50.00		0.941	
12	2:05	1.00	5.000	0.14	49.55	50.00	1.093	1.103	0.99
13	2:19		10.000			50.00		0.255	
14	2:49		5.000			50.00		0.937	

NO	RET(L)	RATIO	RT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55	0.99	5.000	0.17	18.60	50.00	0.184	0.495	0.37
20	4:04	0.98	5.000	0.26	5.77	50.00	0.143	1.236	0.12
21	9:24	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.455	
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.062	
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26	0.99	5.000	0.20	5.44	50.00	0.081	0.746	0.11
34	9:46	0.99	5.000	0.21	7.91	50.00	0.056	0.357	0.16
35	10:01	0.97	5.000	0.21	5.84	50.00	0.056	0.483	0.12
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	0.98	5.000	0.25	54.77	50.00	1.372	1.253	1.10
41	11:42	0.99	5.000	0.25	47.14	50.00	0.555	0.588	0.94
42	6:57	0.99	5.000	0.15	48.95	50.00	1.457	1.488	0.98

LIBRARY SEARCH
08/15/90 10:14:00 + 01:30
SAMPLE: SNL C0837832 EP#85173800105 CRSE#20124 DN#19
EMANATED (5 158 2H 0T)



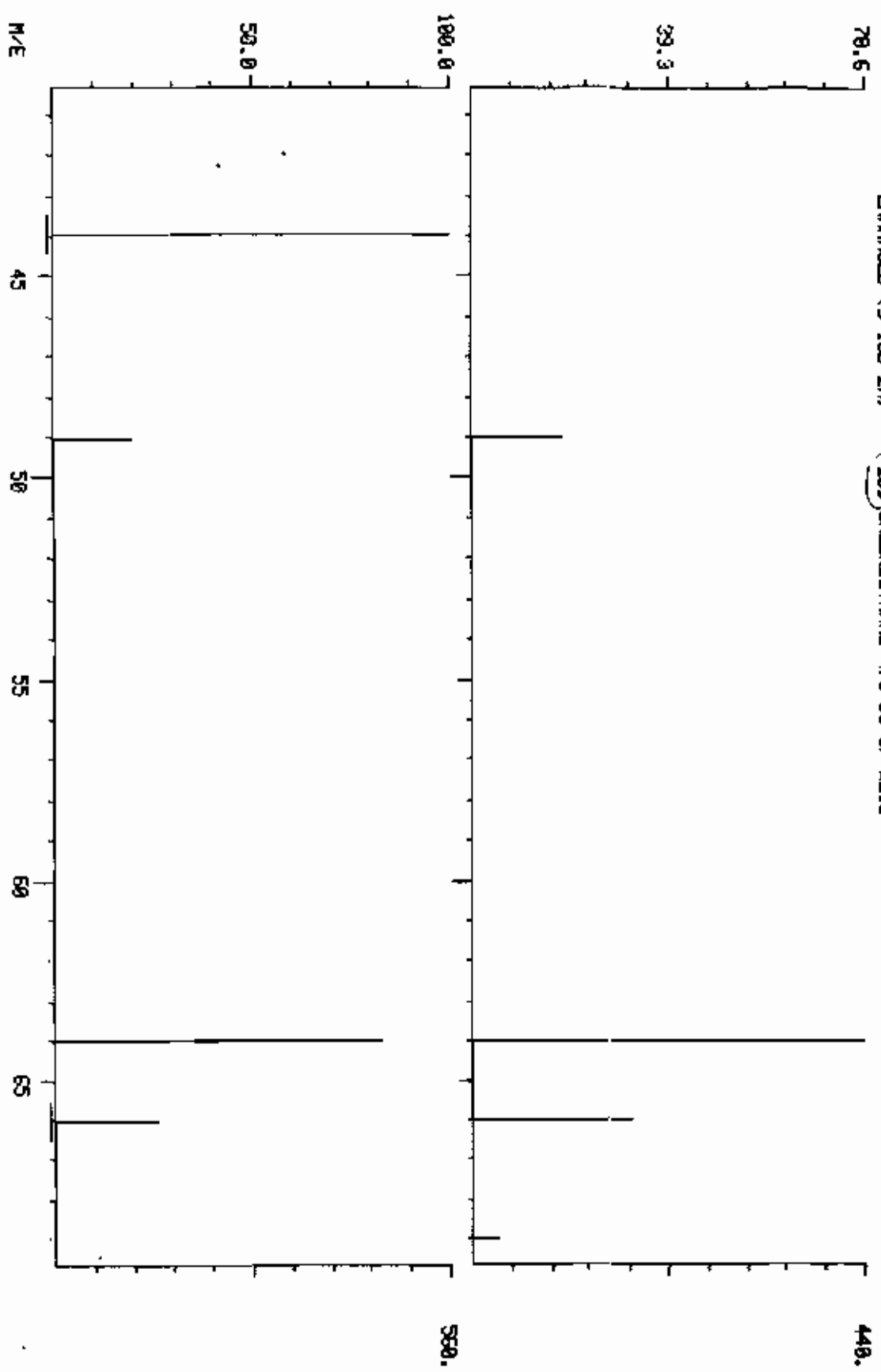
C2 H5 Cl
M 111.000
B PK 61
KRNK 1 5
IN 5
PUR 667

COMPUCHEM LABS

DATA: C0037832R19 #31

BASE N/E: 64/ 44
R/C: 748. ✓ 1277.

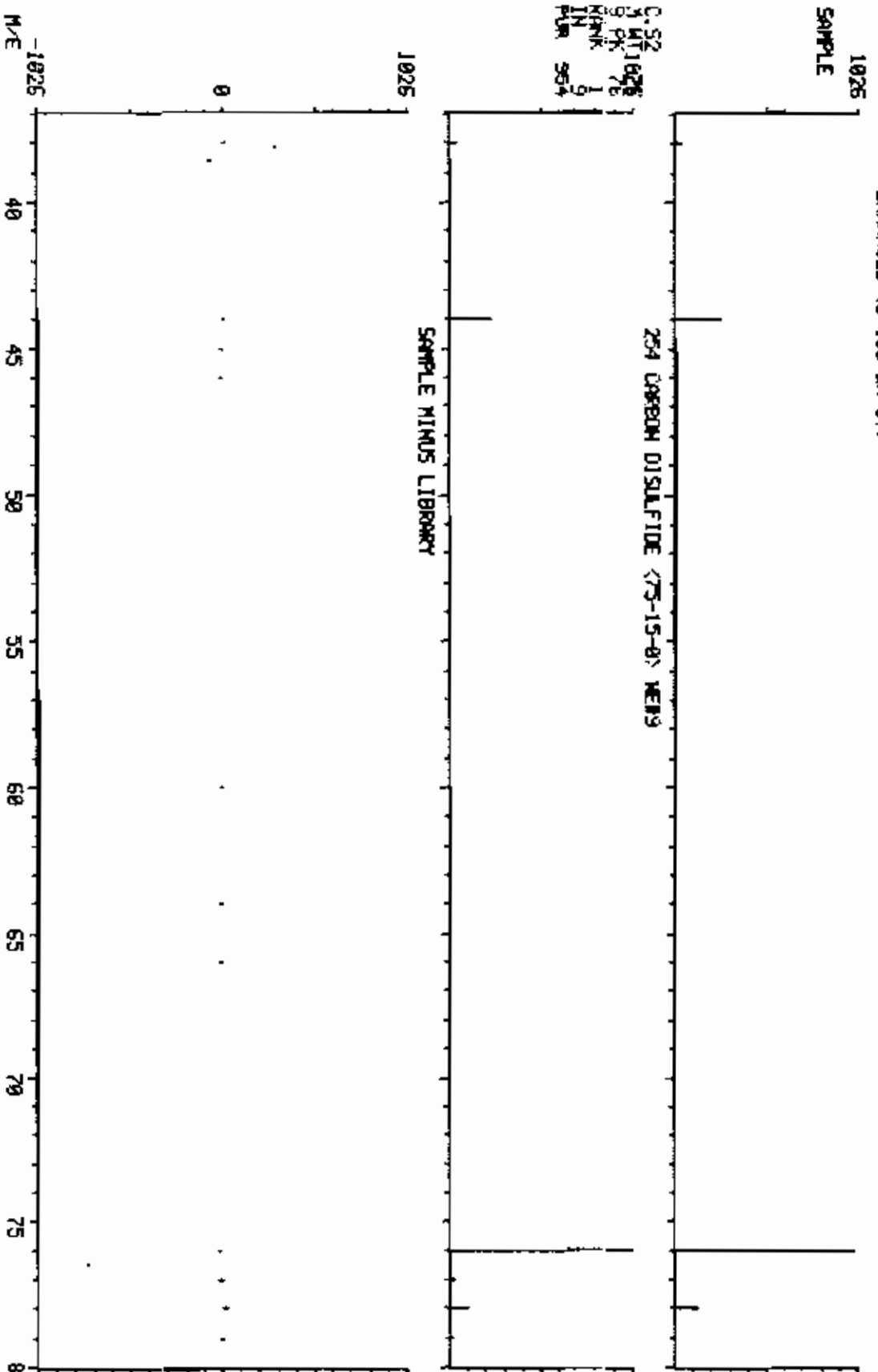
DUAL MASS SPECTRUM
05-15-90 10:14:00 + 01:30
SAMPLE: SML C0037832 EPA#S: 73900103 CRSE#28124 DM#19
ENRICHED (5 158 24) 209 CALIBRETHANE (75-06-3) WERC



LIBRARY SEARCH
08/18/99 10:14:00 + 11.05
SAMPLE1 SWL C0037832 EP#45173800105 CRSE#28124 ON#19
ENHANCED (5 158 24 81)

COMPUCHEN LogS DATA: C0037832R19 # 88 BASE M/E: 76
R/C: 3883.

C-52
Y 07 1628
9 PK 76
KINIK 1
IN 9
PLAN 964

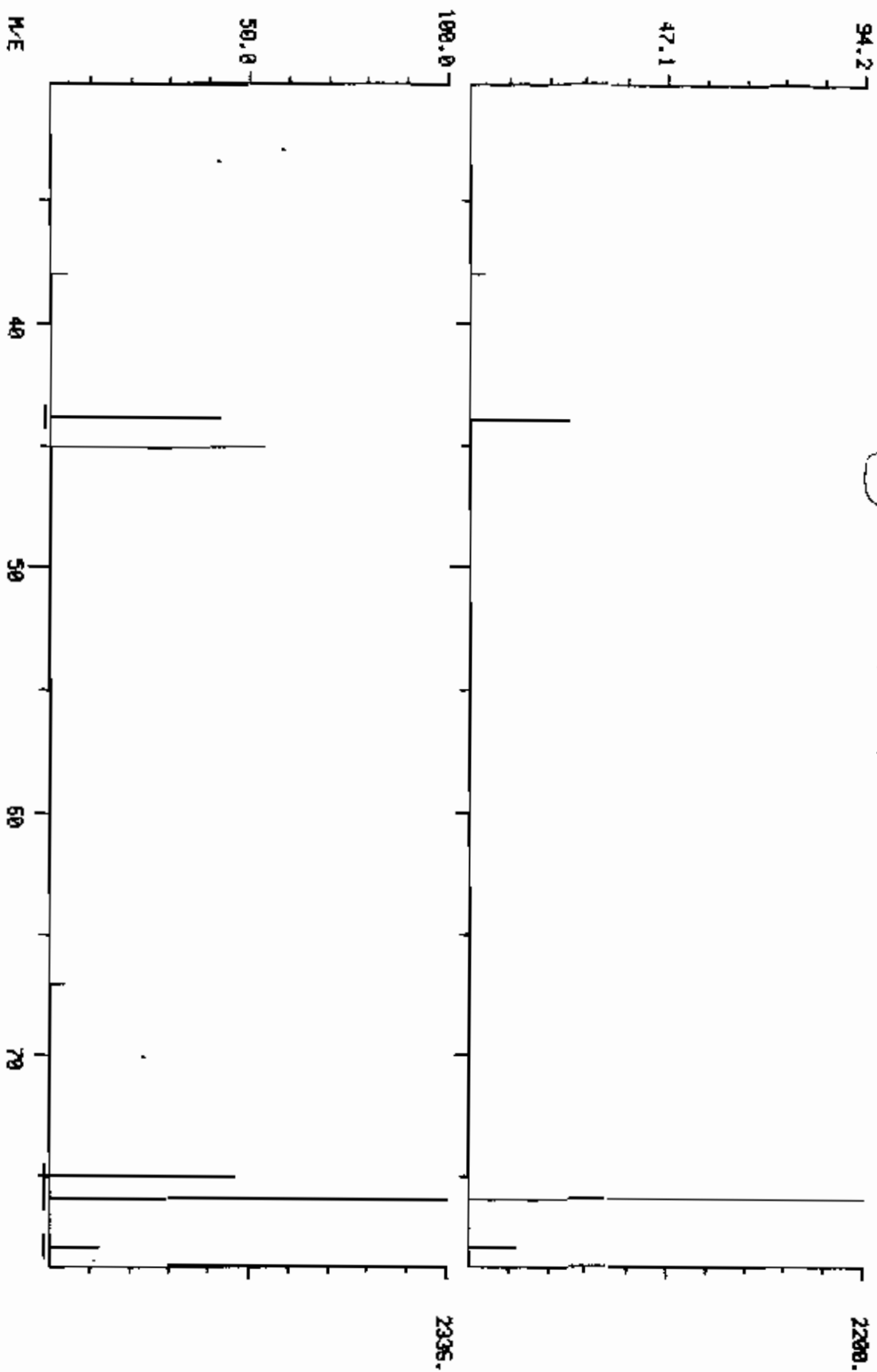


COMPUCHEM LABS

DATA1 CH837892A19 #88

BRSE M/E: 76/ 76
R/C: 2992.7 5142.

DUAL MASS SPECTRUM
08-16-00 10:14:00 + 1.00
SAMPLE 5ML C0837892 EPP05173800105 CASE#20124 QM#19
ENHANCED (5 100 2K) 754 CARBON DISULFIDE (75-15-0) REF9

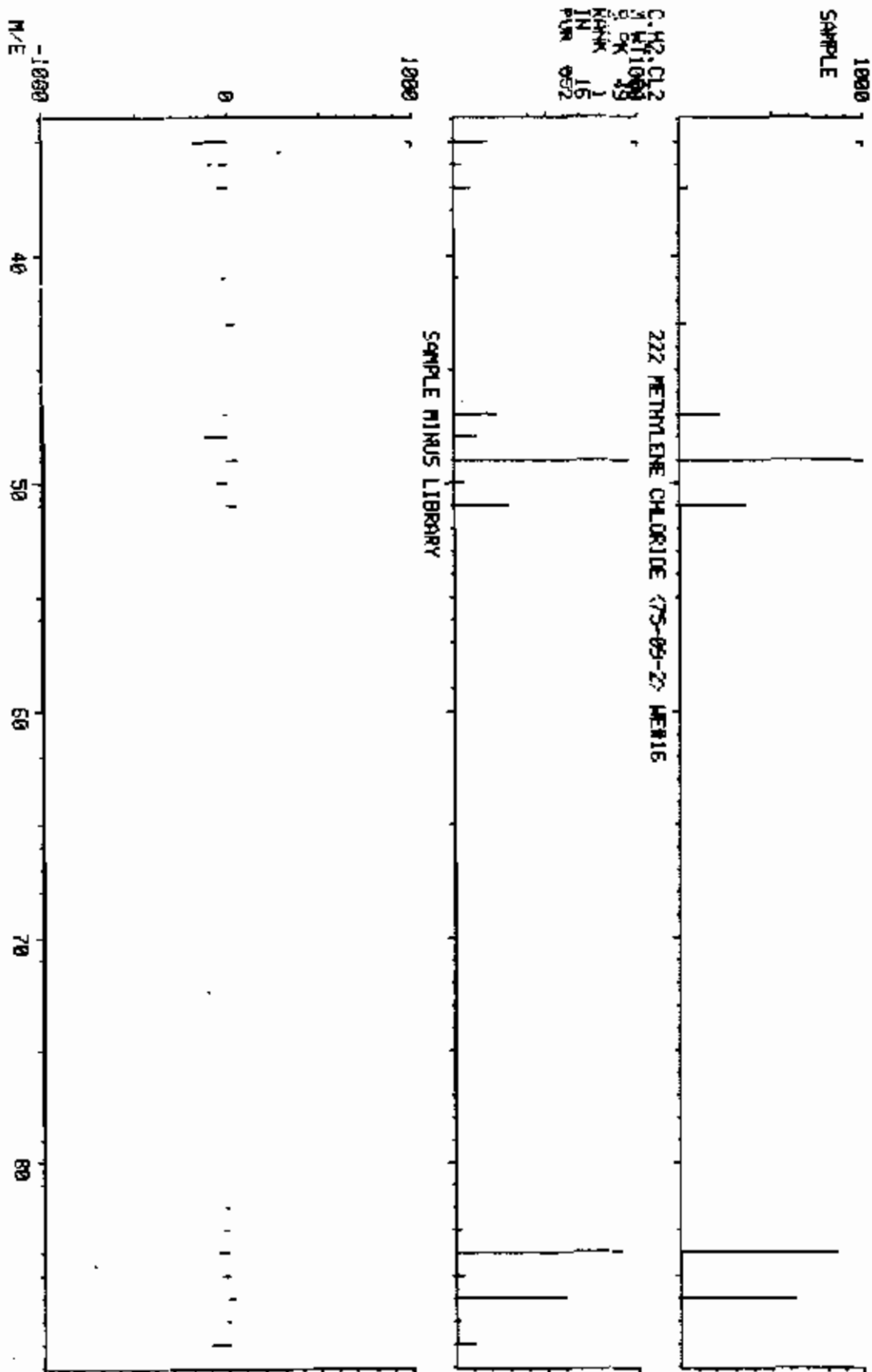


COMPLEXION LABS

DATA: CH837892A19 # 115

BASE M/E: 49
R1C1 2315.

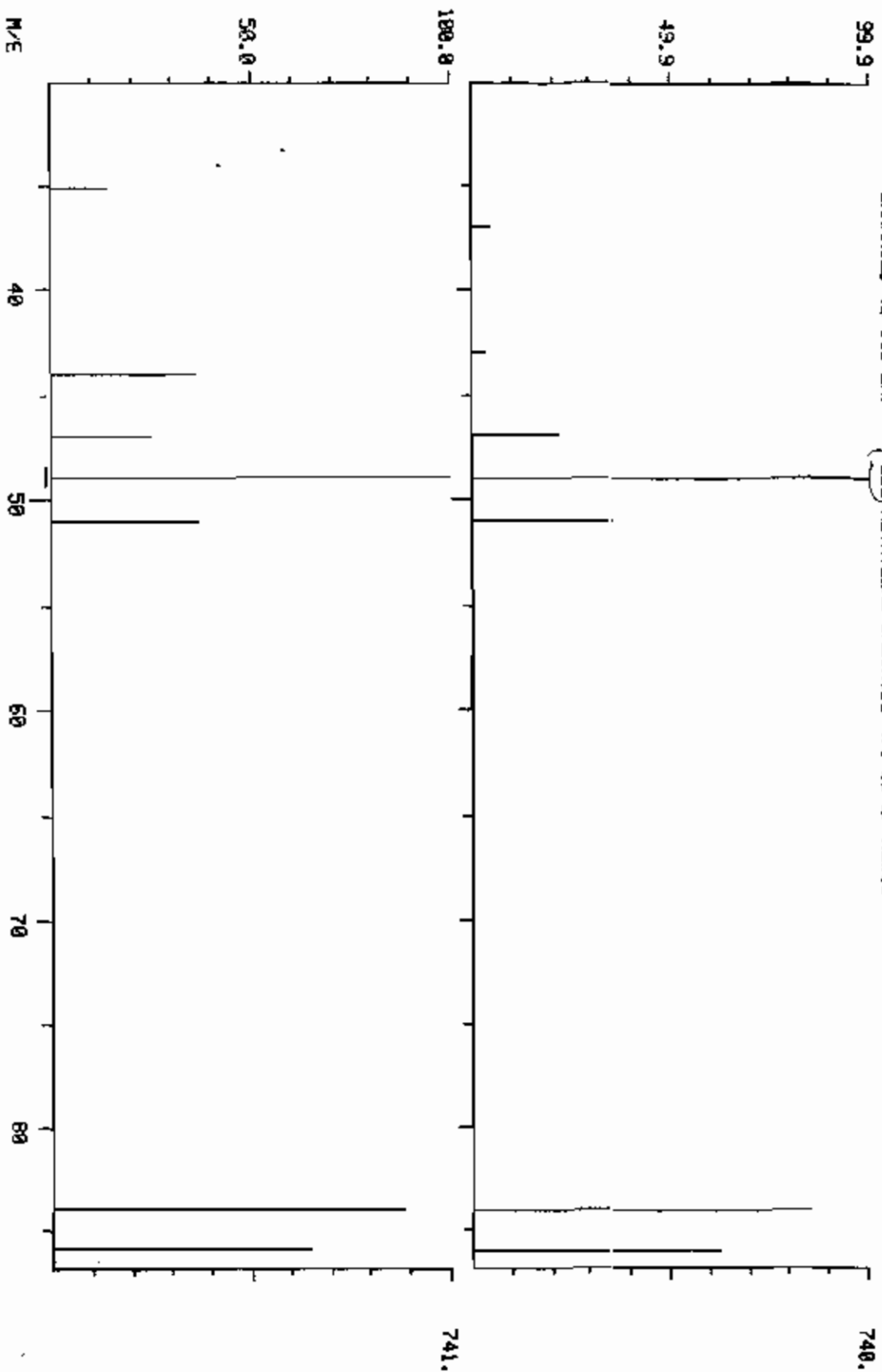
LIBRARY SEARCH
05/15/90 10:14:00 + 1426
SAMPLE: SML CCM337892 EPRMS173800100 CASE#20124 DN#19
EMULSIFIED (S 150 2H 8T)



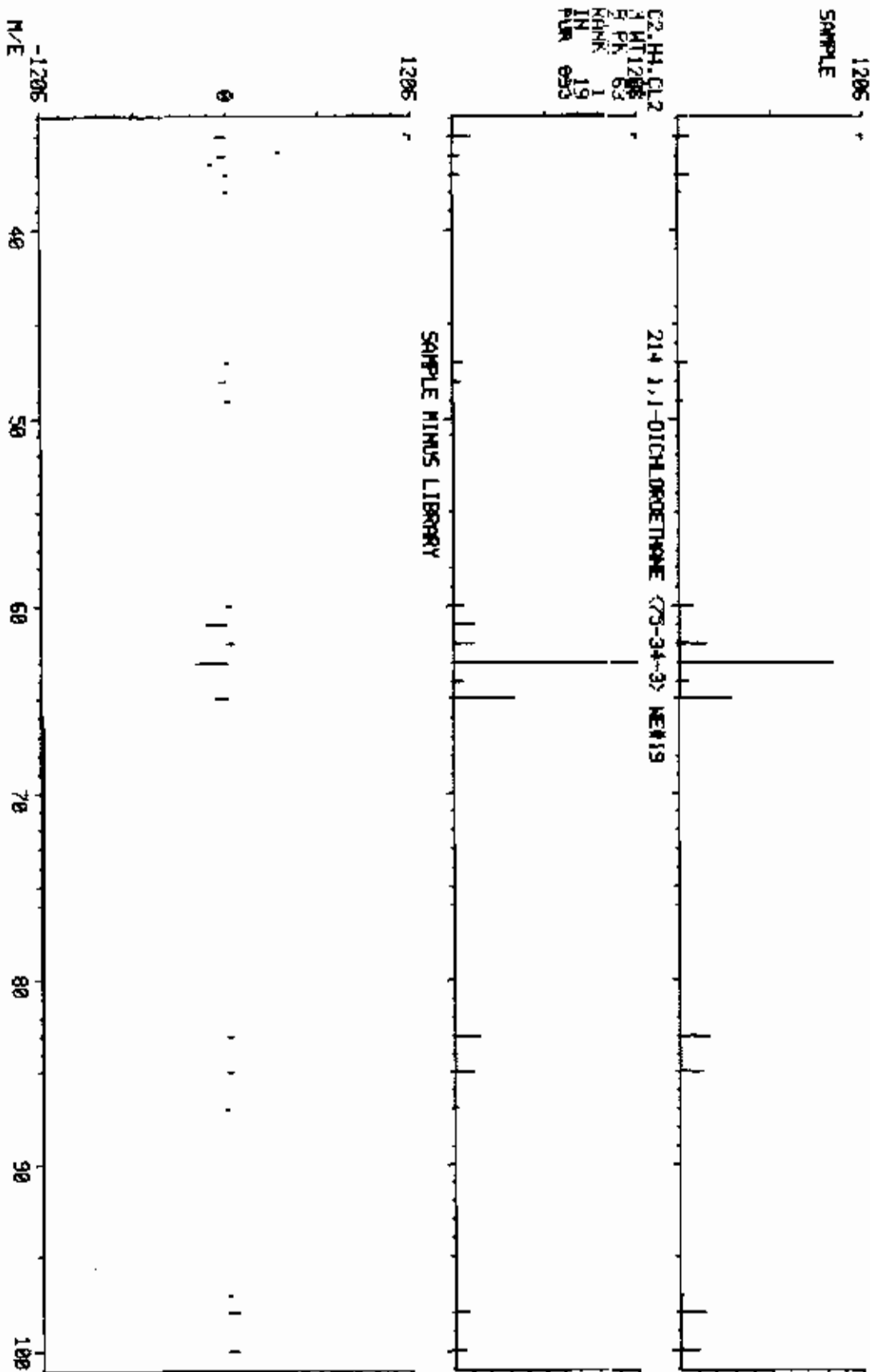
COMPUchem L995

DATA: CN037832A19 #115 BRSE M/E: 49/ 49
R101 2015. ✓ 2699.

DUAL MASS SPECTRUM
08/16/90 10:14:00 + 1.26
SAMPLE: SHL CN037832 EPMS: 73900105 ORSER20124 CN019
ENRICHED (S 105 2M) (222) METHYLENE CHLORIDE (75-09-2) ME#15



LIBRARY SEARCH
08-18-98 10:14:00 + 21.06
SAMPLE1 SIM CM037832 EPA#5173900103 CASE#20124 QM#19
ENRICHED (S 158 21 81)



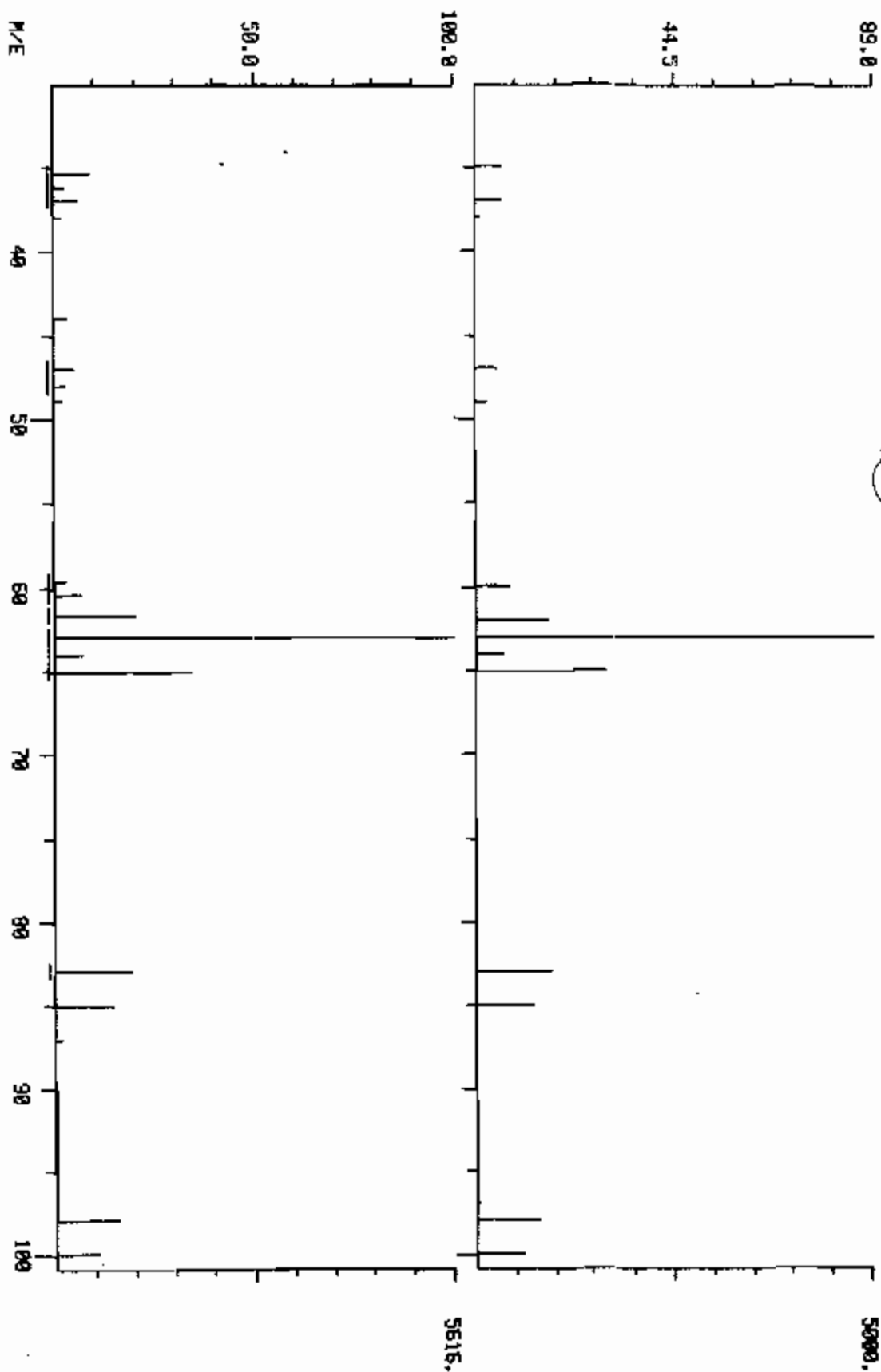
CM.HH.C12
 1 1206
 1 63
 1 19
 1 19
 1 63

COMPUCHEN LABS

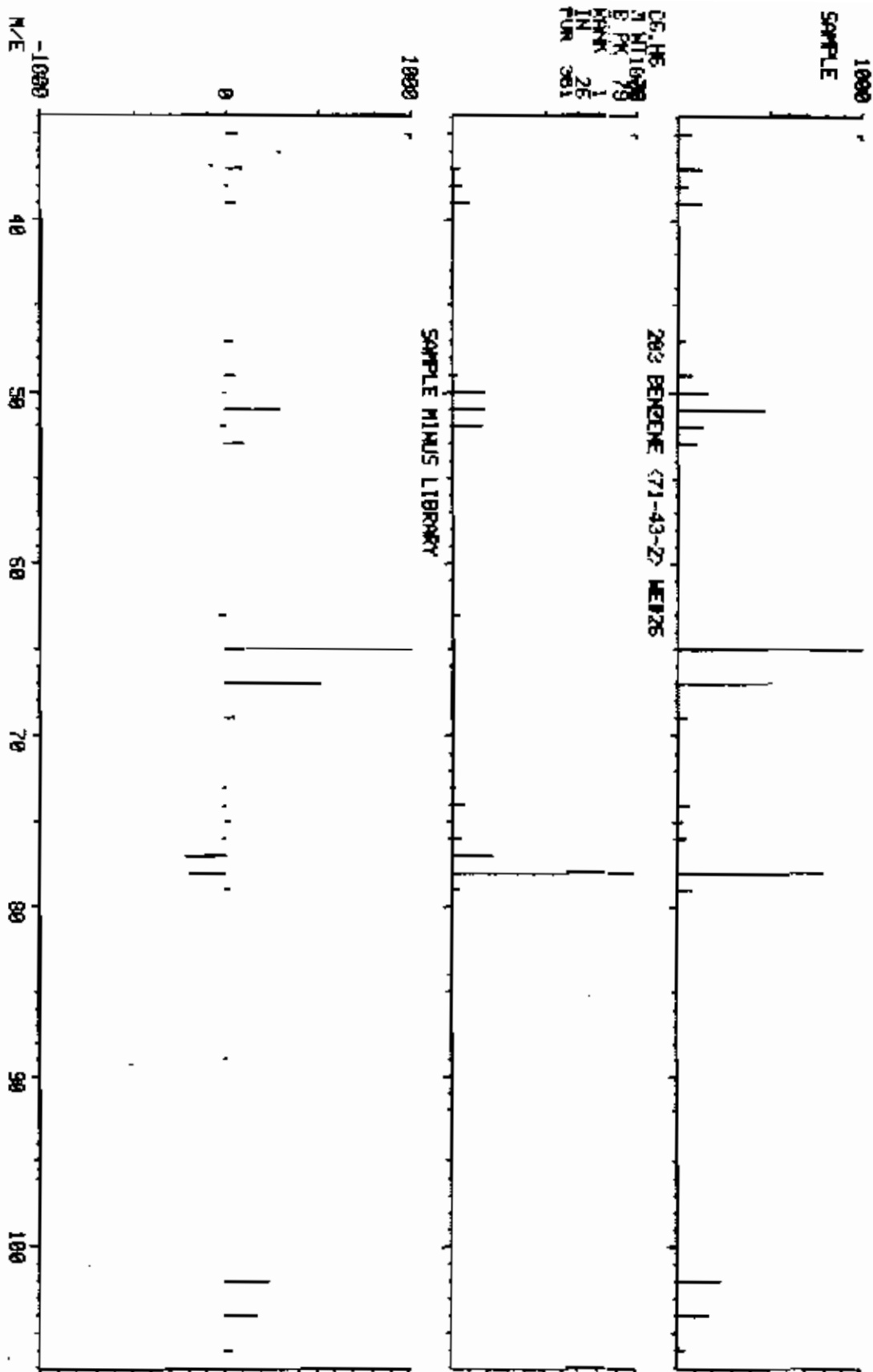
DATA: CN037832A19 #167

BASE M/E: 53 / 140.3,
R10: 12842.1

DUAL MASS SPECTRUM
08/15/90 10:14:00 + 21.85
SAMPLE: 5ML C0833783Z EPA#8173800109 CASE#20124 0M#19
ENHANCED (5 128 2M) (214) 1,1-DICHLOROETHANE (75-34-3) M#19



LIBRARY SEARCH
06/15/90 10:14:00 + 3:52
SAMPLE: 5ML C0837832 EPA#5173900105 CASE#20124 QM#19
ENHANCED (5 158 24 8T)

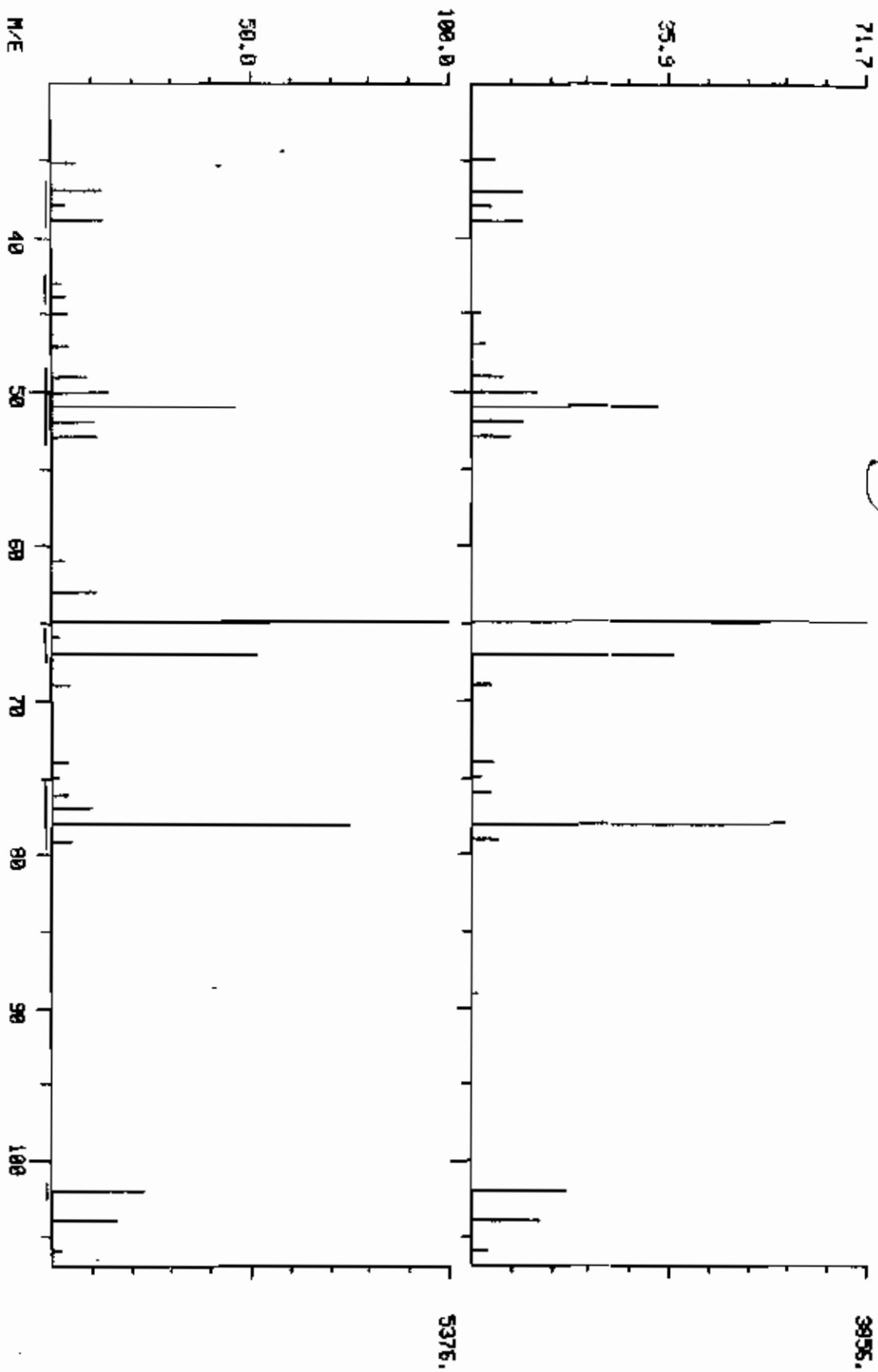


COMPUCHEM LABS

DATA# CN037832A19 #318

BASE M/E: 53 / 65
RIC# 16995 / 24415

DUAL MASS SPECTRUM +
08/18/90 10:14:00 + 31.92
SAMPLE# 5M CN037832 EP#8173800105 CASE#20124 Q#419
ENHANCED (5 158 2X) 283 BENZENE (71-43-2) LE#126

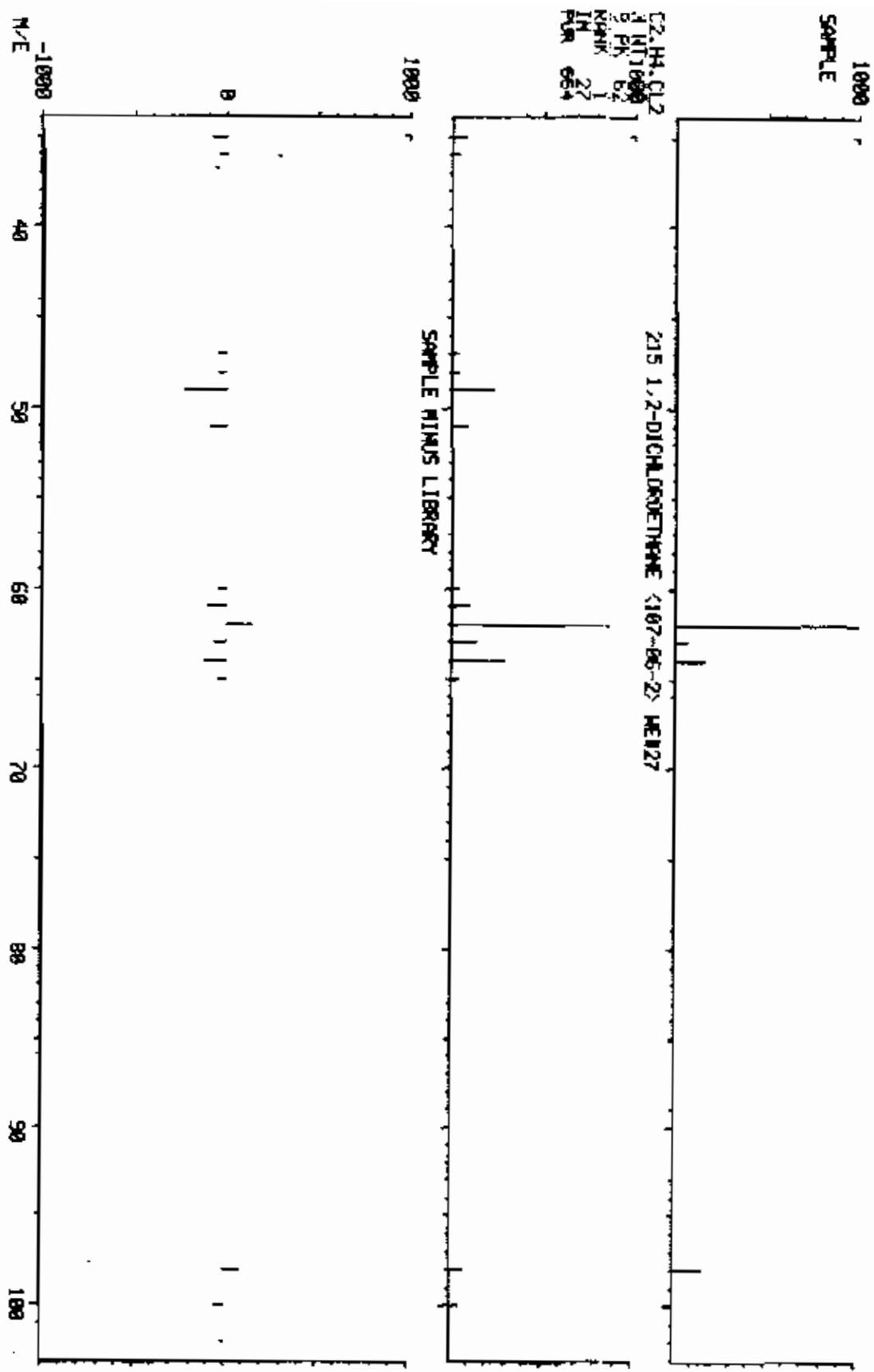


COMPUCHEM LIB95

DATE: C0607832A19 # 321

BASE M/EI 62
R1C1 091.

LIBRARY SEARCH
05/15/90 10:14:00 + 4:01
SAMPLE: JNL C06037832 EPA#S173800109 CASE#28124 Q#819
ESEARCHED (5 158 24 07)

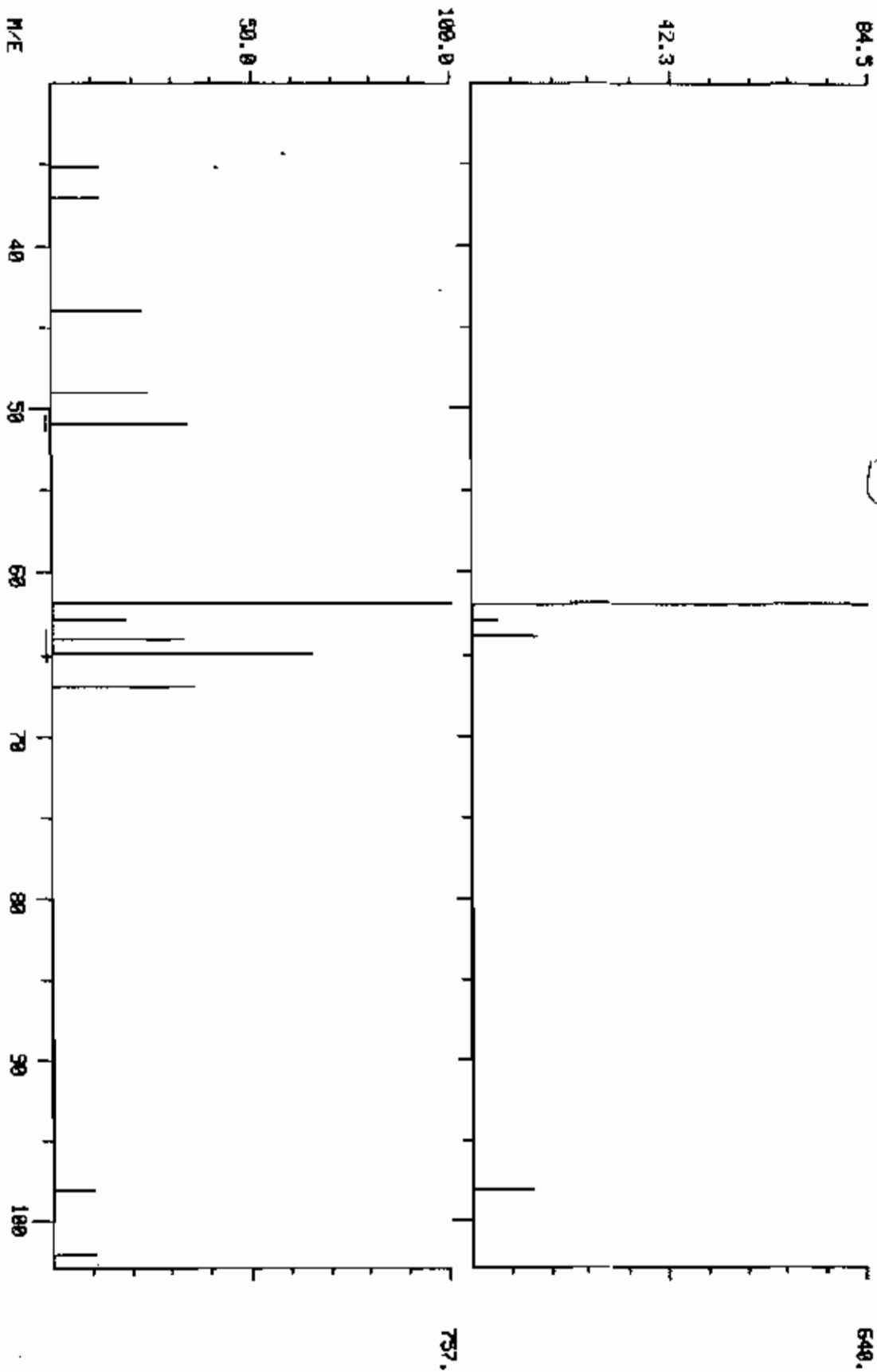


CONFUCHEM LABS

DATA: CN037832A19 #321 BASE N/E1 62/ 62

R1C1 501.1 2047.

DUAL MASS SPECTRUM
08/15/98 10:14:00 + 4.01
SAMPLE: SML CN037832 EP#15: 7360109 CASE#20124 ON#19
ENHANCED (5 150 2N) (215) 1,2-DICHLORoETHANE (107-06-2) MW:27

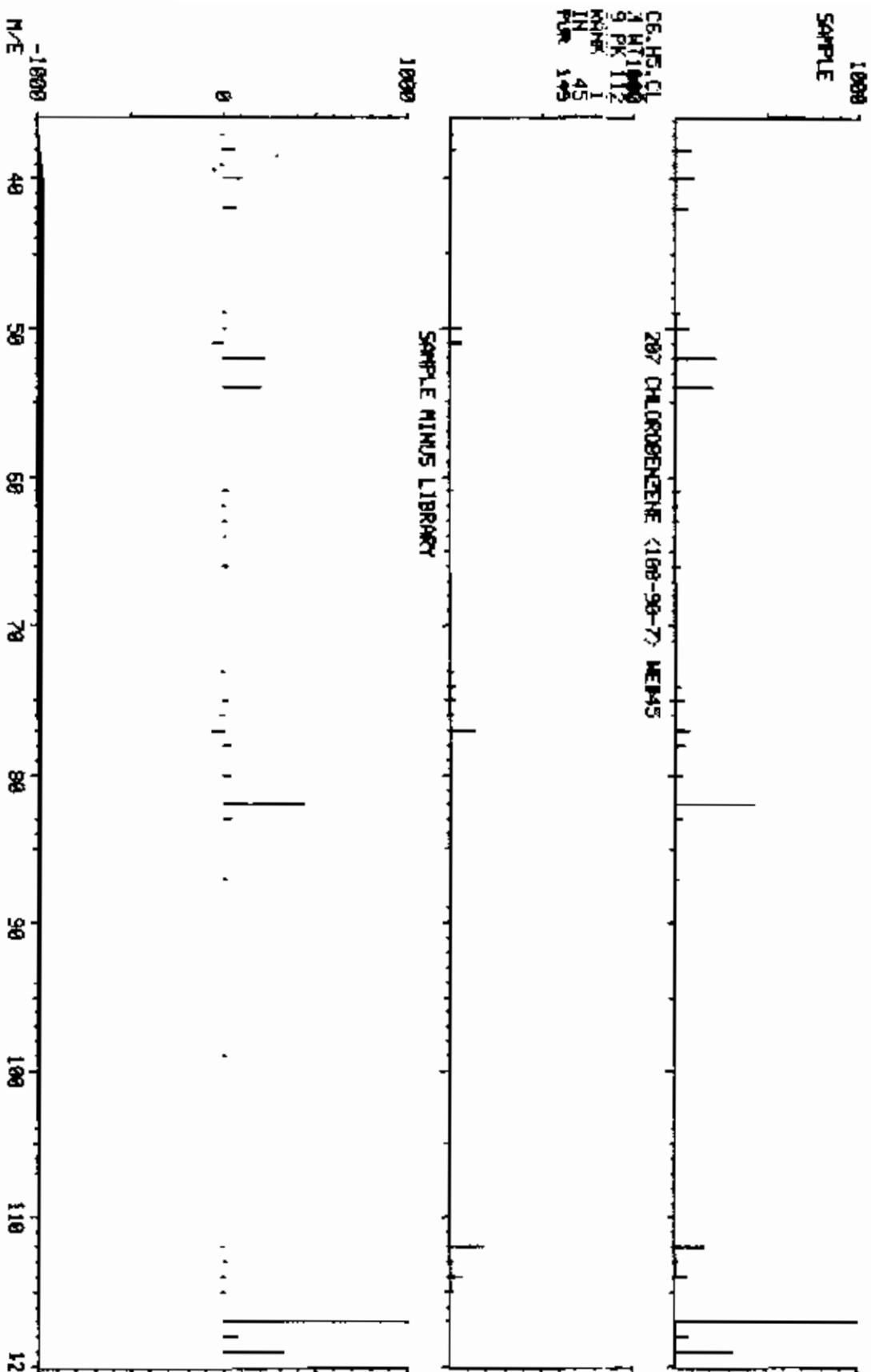


LIBRARY SEARCH
08-15-90 10:14:00 + 9:22
SAMPLE: SML C0837832 EPAMS173800103 CASE#28124 QM#19
ENHANCED (5 155 ZH 87)

COMPUCHEM LABS

DATA: C0837832A19 # 750

BASE N/E: 117
R1C1 20363.

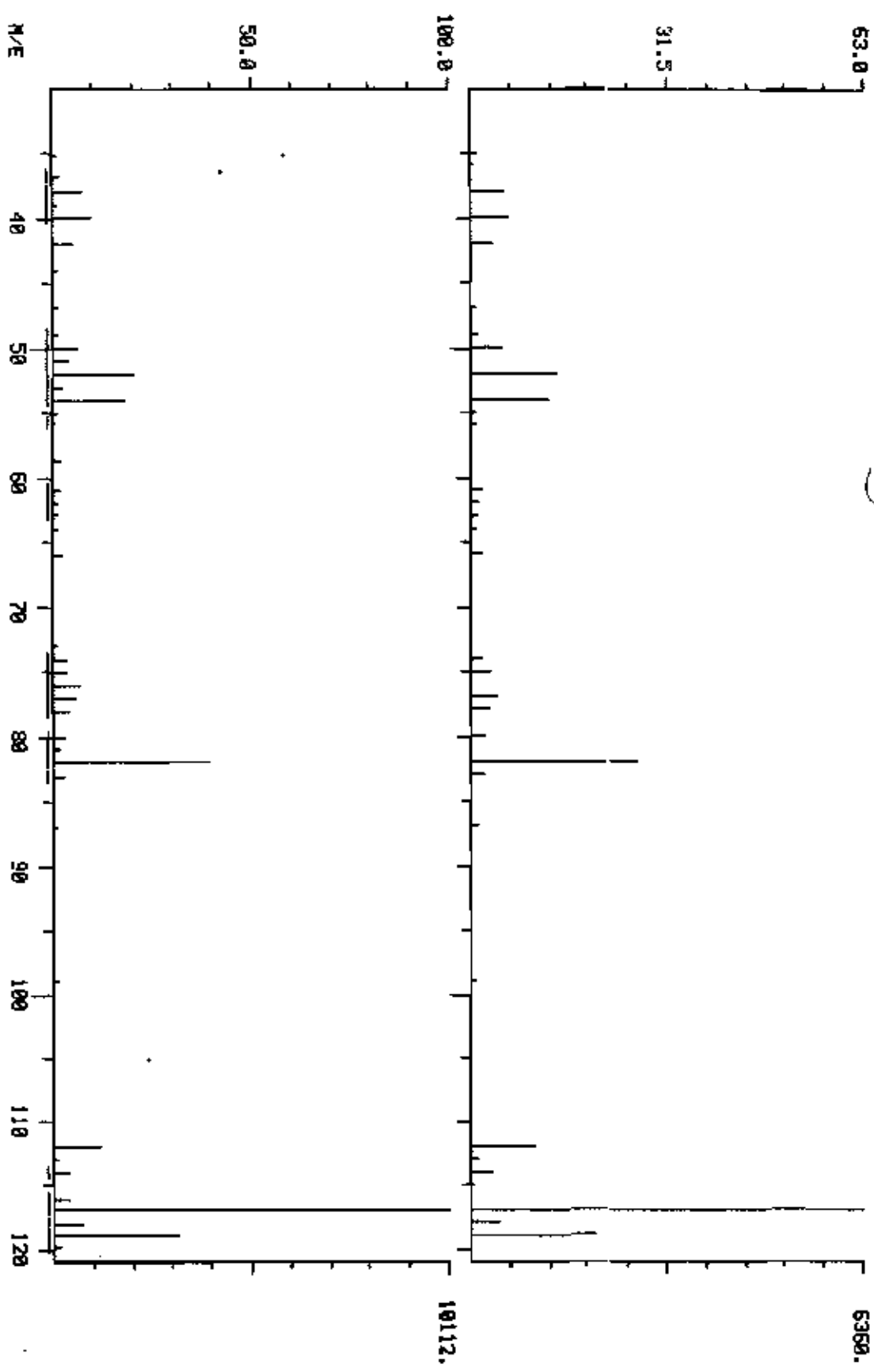


COMPUchem LABS

DATA1 CH037832A19 4750 BASE M/E: 117/ 117

FILE: 20767.1 32767.

DUAL MASS SPECTRUM
05/15/90 10:14:00 + 0122
SAMPLE1 SIML CC#337832 EPA#54173800105 CASE#20124 ON#19
EMITTED (5 158 24) 207 CALORIBENZENE (100-90-7) LE#445

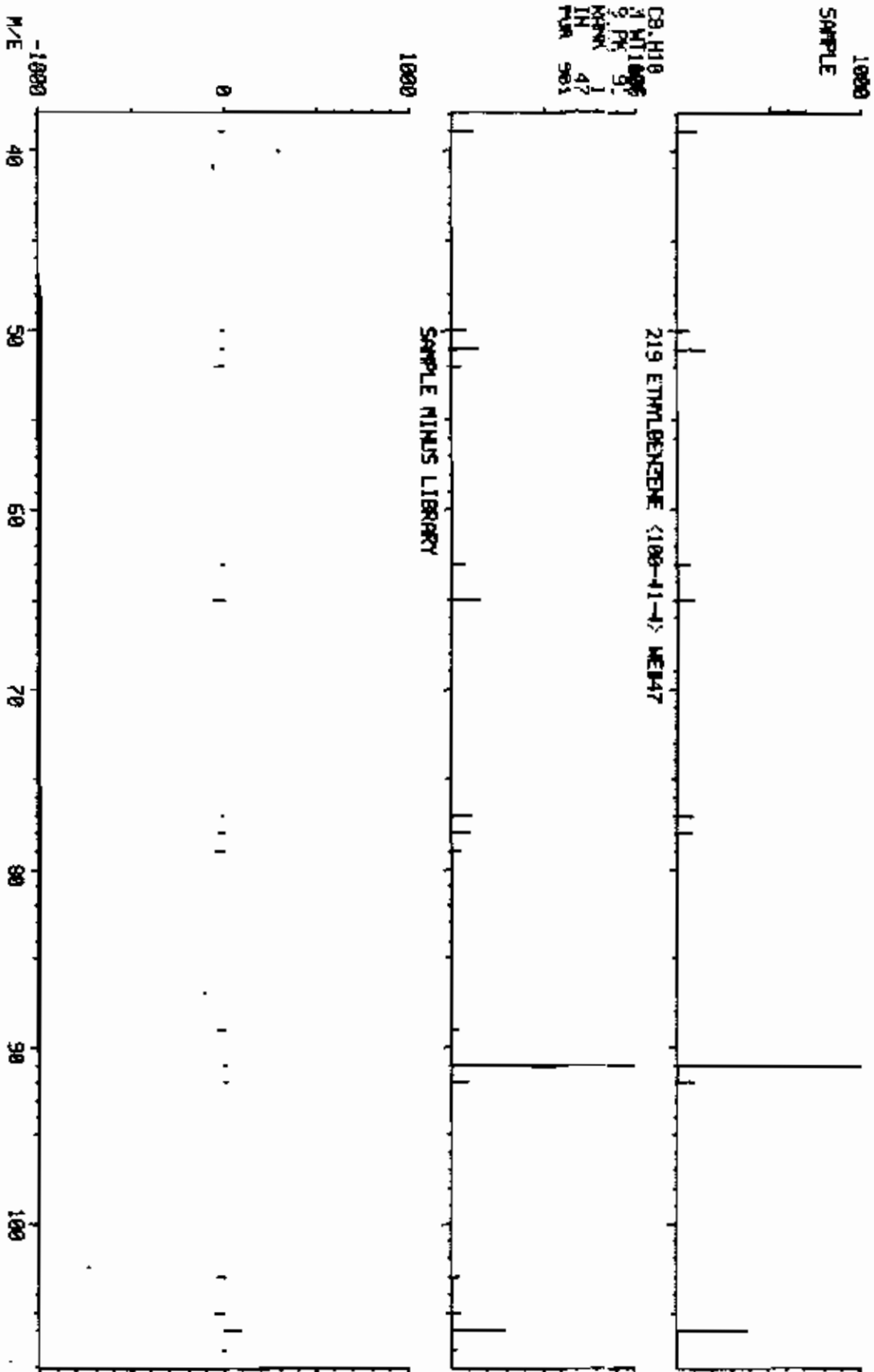


COMPUCHEM LABS

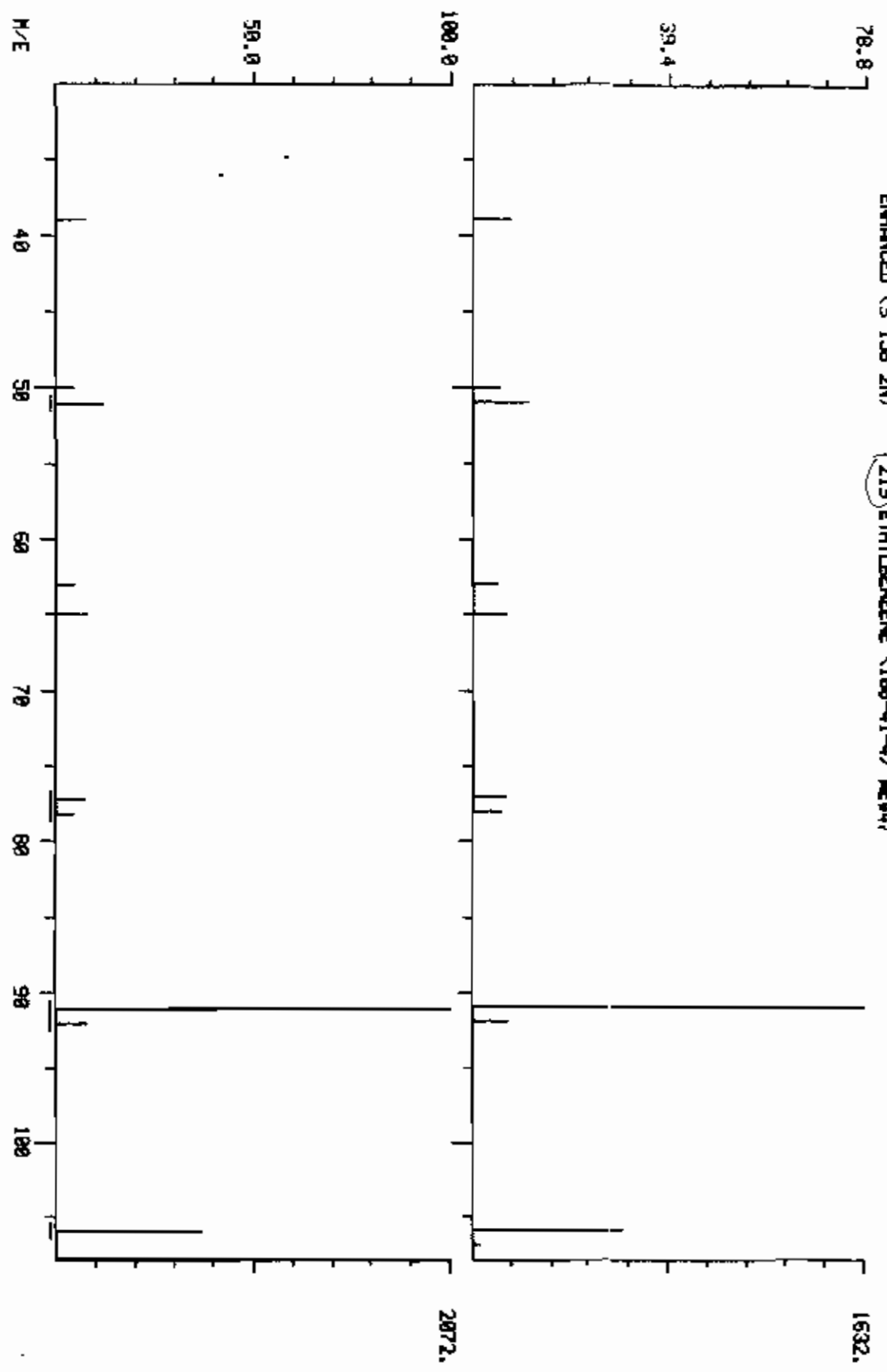
DATA: CN037832619 # 776

BASE M/E: 91
RIC: 2415.

LIBRARY SEARCH
05/15/88 10:14:00 + 9:42
SAMPLE: SML CN037832 EPA#S173800105 CASE#28124 QM#19
ENHANCED (5 158 ZH 8T)

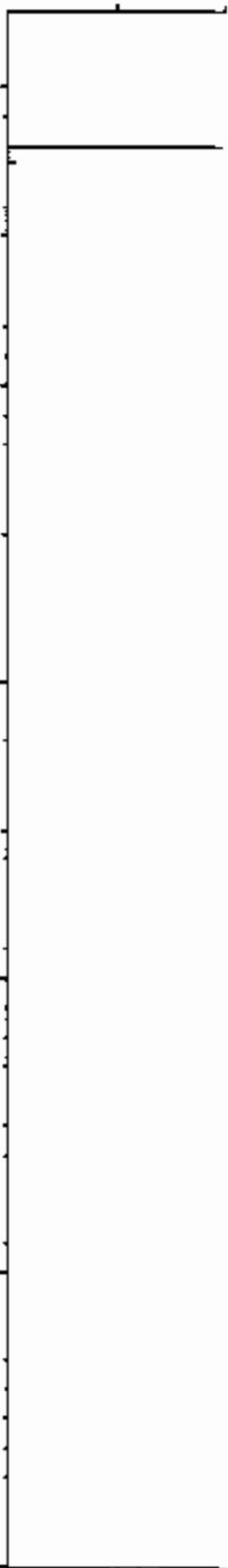


DUAL MASS SPECTRUM
08/15/90 10:14:00 + 9.42
SAMPLE: 5ML C037832Z EPA#617380105 CASE#28124 04#19
ENRICHED (5.158 2M) (213) ETHYLBENZENE (100-41-4) ME#47
COMPUCHEM LABS
DATA: C037832A19 #776 BASE M/E: 91 / 91
R1C1 3A18. / 3971.



LIBRARY SEARCH
08/15/90 10:14:00 + 0126
SAMPLE: 5ML CN037832 EPA#15173800105 CN037832A124 CN#19
ENHANCED (S 150 ZH 8T)

1010
SAMPLE



C2.H2.CL.BR2.F
M HT 1010
P PK 44
FRANK 1
IN 18094
PUR 560

CYCLOPROPANE, 1,1-DIBROMO-2-CHLORO-2-FLUORO-
CAS# 24071-57-6

C2.H2.O4
M HT 1010
P PK 44
FRANK 2
IN 527
PUR 921

ETHANEDIOLICACID
CAS# 144-62-7

C5.N11.O2.N
M HT 1010
P PK 44
FRANK 3
IN 2293
PUR 823

L-GLUTINE, ETHYLESTER
CAS# 3062-75-5

M/E 40 60 80 100 120 .14

COMPUCHEM LABS

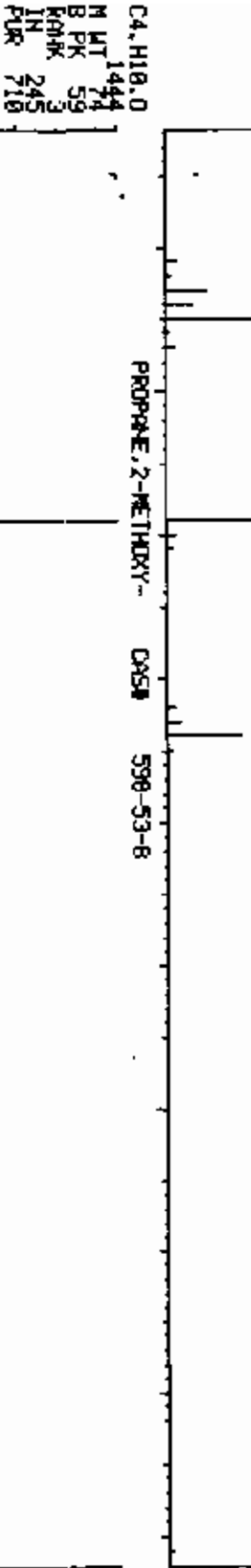
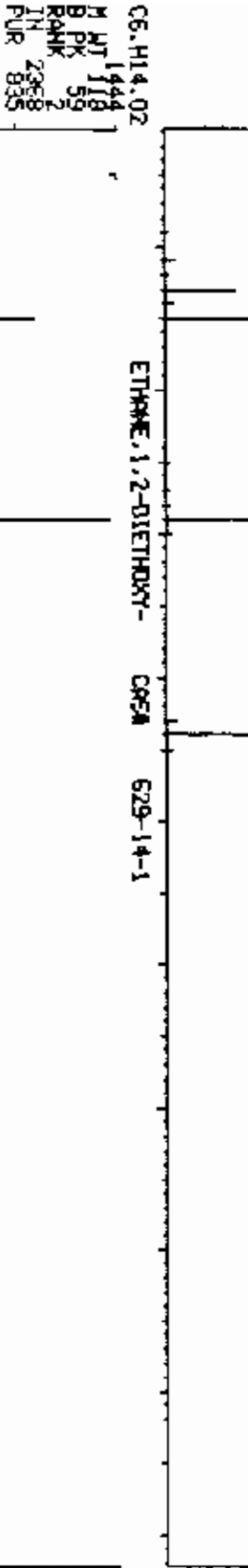
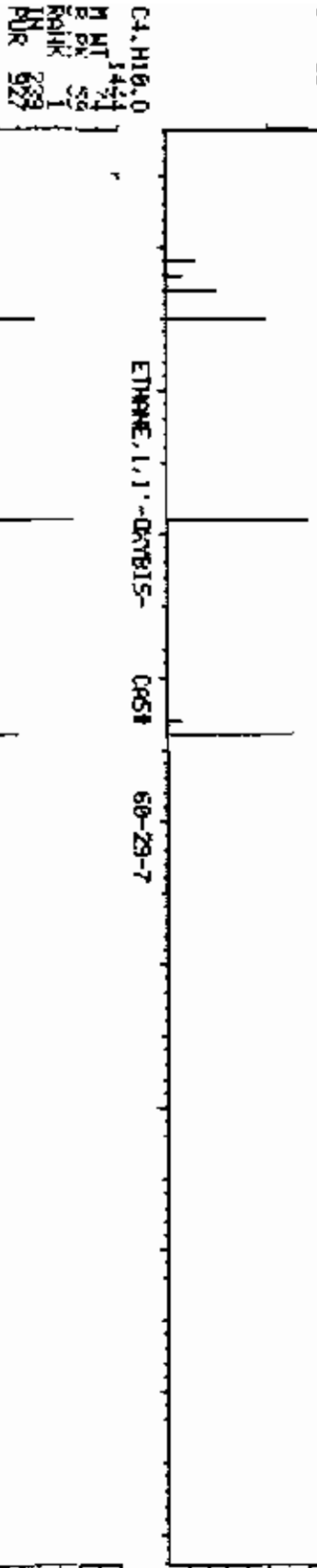
DATA: CN837832919 # 76

BASE M/E: 59

RIC: 6023.

LIBRARY SEARCH
MS/IS/90 10/14/00 4 0:57
SAMPLE: SNL CCAS37832 EPA/MS17380105 CAS#28124 ON#19
ELIMATED (5 155 24 87)

1444
SAMPLE



M/E 40 50 60 70 80 90 100 110 120 130

COMPUCHEN LABS

DATA: CM837832A19 # 92

BASE M/E: 45
RIC: 8511.

LIBRARY SEARCH
08/15/80 10:14:00 + 14.00
SAMPLE 3ML CM837832 EP9495173800105 CPSE820124 CM919
ENRICHED (S 158 2H 0T)

1401
SAMPLE

C3.18.02
1401
M HT 100
B PK 45
FRANK 3
IN 1406
PUR 722

METHANE, DIMETHOXY- CAS# 109-87-5

C3.H10.0.51
1401
M HT 90
B PK 75
FRANK 2
IN 532
PUR 748

SILANOL, TRIMETHYL- CAS# 1865-40-6

C4.H10.03
1401
M HT 100
B PK 45
FRANK 3
IN 1406
PUR 722

ETHANOL, 2,2'-DIBROMIS- CAS# 111-46-6



LAB INSTRUCTIONS:
SEE PPB#407 CASEBRA090 SDG#0507

FPS#:

RECEIPT DATE: 05/09/90 CASE#: 20124

0661 8 T AMM
MAY 18 1990

VOA
GC/MS WORKSHEET COMPUCHEN#: 337832

GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code---- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

SAMPLE ID#: 73800105

GC/MS ANALYSIS
Amount Purged: [] 5 ml or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename CN032832A19 Disk ()

ANALYST(S): Injection AKC/Alan Fink Work-up 1492/Alan Fink

GC/MS REVIEW

CONDITION
CODE

OK

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 3

[] Reinject Heat

Quality Assurance Notice(s):

Notices Required 2

[] Dilute (:1)

COMMENTS:

GC/MS Review Dick Date 5/12/90 Auditor _____ Date _____

REPORT INTEGRATION
Final Reportable Package(s): CN0-A19 Total # of Injections: 1

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW:

Initials _____ Date _____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP	#	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VAL UE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128	I		BROMOCHLOROMETHANE (IS)	246	42900	50.0		
221	30			CHLOROMETHANE				BDL	10
231	62			VINYL CHLORIDE				BDL	10
220	94			BROMOMETHANE				BDL	10
209	64			CHLOROETHANE			3.3	3J	10
216	96			1,1-DICHLOROETHENE				BDL	5
254	76			CARBON DISULFIDE			3.1	3J	5
252	43			ACETONE (2-PROPANONE)			2.8	4J	10
248	114	I		1,4-DIFLUOROBENZENE (IS)	375	189000	50.0		
222	84			METHYLENE CHLORIDE			4.2	4J	5
226	96			TRANS-1,2-DICHLOROETHENE				BDL	5
214	63			1,1-DICHLOROETHANE			49.6	50	5
257	43			VINYL ACETATE				BDL	10
237	96			CIS-1,2-DICHLOROETHENE				BDL	5
253	72			2-BUTANONE				BDL	10
211	83			CHLOROFORM				BDL	5
227	97			1,1,1-TRICHLOROETHANE				BDL	5
206	117			CARBON TETRACHLORIDE				BDL	5
203	78			BENZENE			18.6	19	5
215	62			1,2-DICHLOROETHANE			5.8	6	5
270	117	I		DB-CHLOROBENZENE (IS)	747	120000	50.0		
229	120			TRICHLOROETHENE				BDL	5
217	63			1,2-DICHLOROPROPANE				BDL	5
212	83			BROMODICHLOROMETHANE				BDL	5
218	75			CIS-1,3-DICHLOROPROPENE				BDL	5
256	43			4-METHYL-2-PENTANONE				BDL	15
225	92			TOLUENE				BDL	5
250	79			TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97			1,1,2-TRICHLOROETHANE				BDL	5
224	164			TETRACHLOROETHENE				BDL	5
255	43			2-HEXANONE				BDL	15
208	129			DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112			CHLOROBENZENE			9.4	9	5
219	106			ETHYLBENZENE			7.9	8	5
330	106			M, P-XYLENE			5.8	BDL ←	5
239	106			O-XYLENE				BDL	5
251	104			STYRENE				BDL	5
205	173			BROMOFORM				BDL	5
223	83			1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65	S		04-1,2-DICHLOROETHANE WE#57			94.8	110.2	
247	95	S		BROMOFLUOROBENZENE			47.1	94.2	
233	98	S		08-TOLUENE WE#59 SS#2			48.9	98.2	
289	106			XYLENES (TOTAL)			5.8	6	5

CORRECTED/REVIEWED BY

OKS...
(GC/MS DATA REVIEWER)

DATE

5-16-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
		3979.	1368	351900.		414.1	114.

CORRECTED/REVIEWED BY *D. St. L.*
 (GC/MS DATA REVIEWER)
 DATE 5-16-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	54.8	50.0	110.	76-114	X	
41	247	BROMOFLUOROBENZENE	47.1	50.0	94.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	48.9	50.0	98.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY Ek. J. H.
 (GC/MS DATA REVIEWER)

DATE 5-16-96

QUALITY ASSURANCE NOTICE

CompuChem # 337832

Instrument Blank : EG50005019

Client ID # 7390415

Case 20124

The early-eluting peak on the RIC of the volatile fraction at scan # 35 is an instrument artifact believed to be a mixture of water and various atmospheric gases. This peak is usually present at less than 10% of the nearest-eluting internal standard peak height, although it may exceed this height under certain instrument conditions.

Periodically, a number of maintenance procedures are performed in an effort to reduce the intensity of this artifact. These procedures may include:

- trap replacement
- reconditioning and/or replacing column
- replacing six-port valve in Tekmar
- cleaning of the separator
- cleaning or replacing source
- replacing lines in Tekmar

In many cases, even after maintenance, the artifact peak remains at a height greater than 10% of the nearest internal standard. Since the analytical quality of these data have not been compromised, we are reporting this analysis with reference to this qualifier. The artifact is not included as part of the Library Search requirements for the associated samples.

Robert J. Whitehead
Manager, Quality Assurance

QAK:BV
072917

QUALITY ASSURANCE NOTICE

CompuChem # 337832

Blank ID # C690001409

Case 20124

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8240" and "Semivolatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/kg; acetone may not exceed 50 ug/kg. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Wishead
Manager, Quality Assurance

C-4295
B-1026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800106

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337800

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN017811A19

Level: (low/med) LOW Date Received: 05/09/90

† Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	23	B
67-64-1	-----Acetone	17	
75-15-0	-----Carbon Disulfide	9	
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	3	J
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	4	J
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	3	J
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800106

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337833
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037833A19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/15/90
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

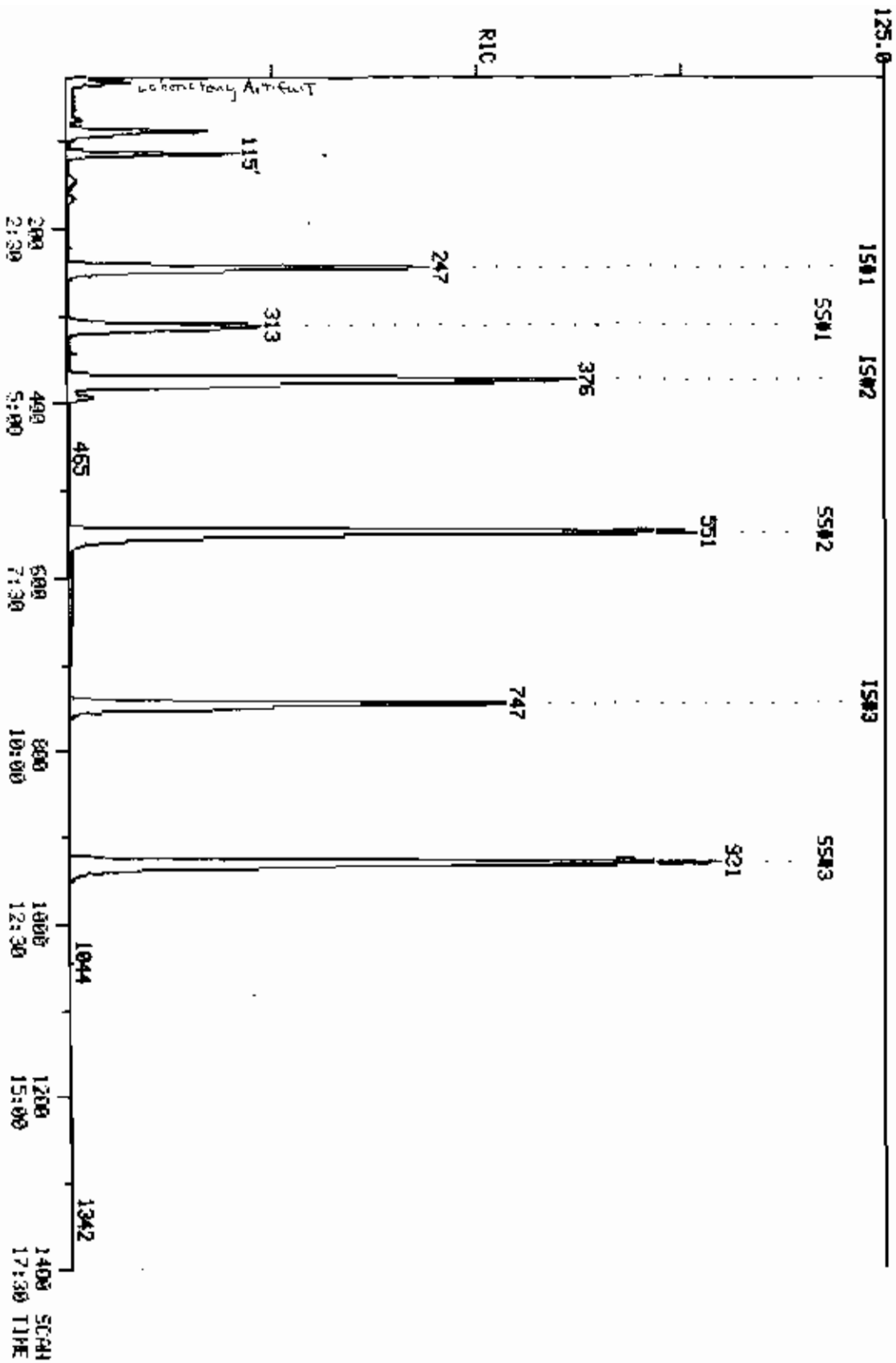
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	0.43	3.0	J

COMPUchem L985

COMPUchem DATA 080372202019 SCAN# 29 TO 1400

RIC
08/15/90 10:59:00
SAMPLE 5ML C0A0337833 EPA#173800106 C05E#20194 01#119
COND# 1

76880.



QUANTITATION REPORT FILE: CN037833A19
 DATA: CN037833A19.T1
 05/15/90 10:59:00
 SAMPLE: 5ML CC#337833 EPA#: 73800106 CASE#20104 ON#19
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1492

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 *234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
- 2 221 CHLOROMETHANE <74-87-3> WE#2
- 3 231 VINYL CHLORIDE <75-01-4> WE#3
- 4 220 BROMOMETHANE <78-83-9> WE#4
- 5 209 CHLORDETHANE <75-00-3> WE#5
- 6 216 1,1-DICHLOROETHENE <75-35-4> WE#8
- 7 254 CARBON DISULFIDE <75-15-0> WE#9
- 8 252 ACETONE (2-PROPANONE) <67-64-1> WE#13
- 9 *248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
- 10 222 METHYLENE CHLORIDE <75-09-2> WE#16
- 11 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
- 12 214 1,1-DICHLOROETHANE <75-34-3> WE#19
- 13 257 VINYL ACETATE <108-05-4> WE#20
- 14 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
- 15 253 2-BUTANONE <78-93-3> WE#22
- 16 211 CHLOROFORM <67-66-2> WE#23
- 17 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
- 18 206 CARBON TETRACHLORIDE <56-23-5> WE#25
- 19 203 BENZENE <71-43-2> WE#26
- 20 215 1,2-DICHLOROETHANE <107-06-2> WE#27
- 21 *270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
- 22 229 TRICHLOROETHENE <79-01-6> WE#30
- 23 217 1,2-DICHLOROPROPANE <78-87-5> WE#31
- 24 212 BROMODICHLOROMETHANE <79-27-4> WE#33
- 25 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
- 26 236 4-METHYL-2-PENTANONE <108-01-1> WE#36
- 27 225 TOLUENE <108-88-3> WE#37
- 28 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
- 29 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
- 30 224 TETRACHLOROETHENE <127-18-4> WE#41
- 31 255 2-HEXANONE <591-78-6> WE#42
- 32 208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
- 33 207 CHLOROBENZENE <108-90-7> WE#45
- 34 219 ETHYLBENZENE <100-41-4> WE#47
- 35 330 M,P-XYLENE <133-02-7> WE#48
- 36 239 O-XYLENE <133-02-7> WE#49
- 37 251 STYRENE <100-42-5> WE#50
- 38 205 BROMOFORM <75-25-2> WE#51
- 39 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
- 40 *258 D4-1,2-DICHLOROETHANE WE#57 SS#1
- 41 *247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
- 42 *233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	XTOT
1	128	246	3:04	1	1.000	A BB	46240.	30.000 UG/L	14.22
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	88	1:06	1	0.358	A BB	30713.	9.183 UG/L	2.61 ^{TS4}
8	43	92	1:09	1	0.374	A BB	4065.	16.965 UG/L	4.83 ^{TS4}
9	114	375	4:41	9	1.000	A BB	180996.	50.000 UG/L	14.22
10	84	115	1:26	1	0.467	A BB	18779.	23.177 UG/L	6.59 ^{TS4}
11	96	NOT FOUND							
12	63	166	2:04	1	0.675	A BB	2809.	2.753 UG/L	0.78 ^{TS4}
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	311	3:53	9	0.829	A BB	8012.	4.401 UG/L	1.25 ^{TS4}
20	62	NOT FOUND							
21	117	747	9:20	21	1.000	A BB	124430.	50.000 UG/L	14.22
22	130	393	4:55	9	1.048	A BB	4515.	2.698 UG/L	0.77 ^{TS4}
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	565	7:04	21	0.756	A VB	2968	3.290 UG/L	0.94 ^{TS4}
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	313	3:59	1	1.272	A BB	52084.	44.964 UG/L	12.79
41	95	931	11:38	21	1.246	A BB	68053.	46.471 UG/L	13.22
42	98	551	6:53	21	0.738	A BB	176572.	47.686 UG/L	13.57

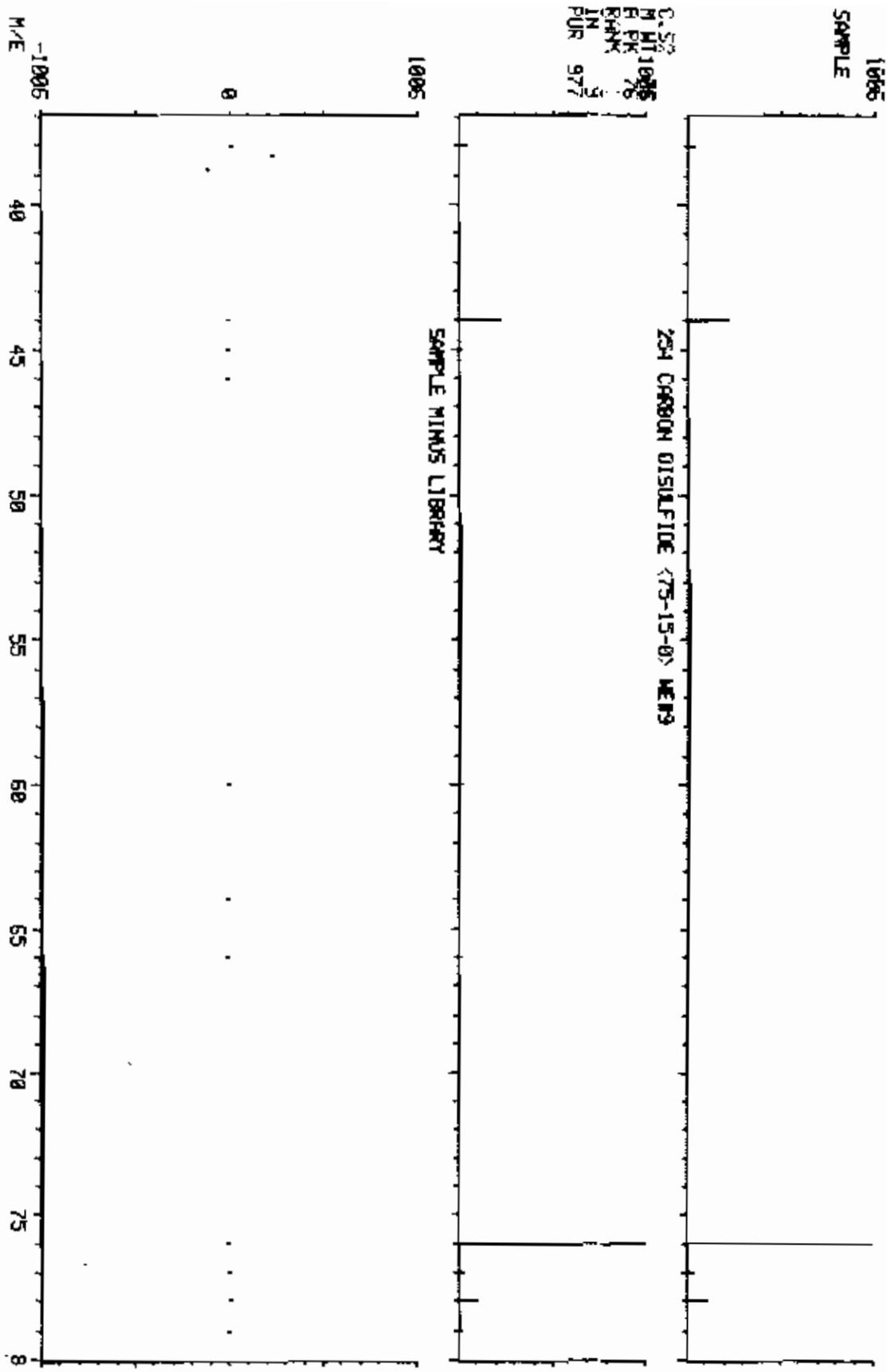
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39		10.000			50.00		0.751	
6	1:03		5.000			50.00		1.389	
7	1:07	0.99	5.000	0.07	9.18	50.00	0.654	3.616	0.18
8	1:11	0.97	10.000	0.04	16.97	50.00	0.089	0.259	0.34
9	4:45	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	0.99	5.000	0.09	23.18	50.00	0.106	0.876	0.46
11	1:40		5.000			50.00		0.941	
12	2:05	0.99	5.000	0.13	2.75	50.00	0.061	1.103	0.06
13	2:19		10.000			50.00		0.255	
14	2:49		5.000			50.00		0.937	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55	0.99	5.000	0.17	4.40	50.00	0.014	0.495	0.09
20	4:04		5.000			50.00		1.236	
21	9:24	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58	0.99	5.000	0.21	2.70	50.00	0.025	0.455	0.05
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06	0.99	15.000	0.05	3.29	50.00	0.024	0.362	0.07
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.746	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	0.98	5.000	0.25	44.96	50.00	1.126	1.253	0.90
41	11:42	0.99	5.000	0.25	46.47	50.00	0.547	0.588	0.93
42	6:57	0.99	5.000	0.15	47.69	50.00	1.419	1.468	0.95

COMPUCHEM LABS

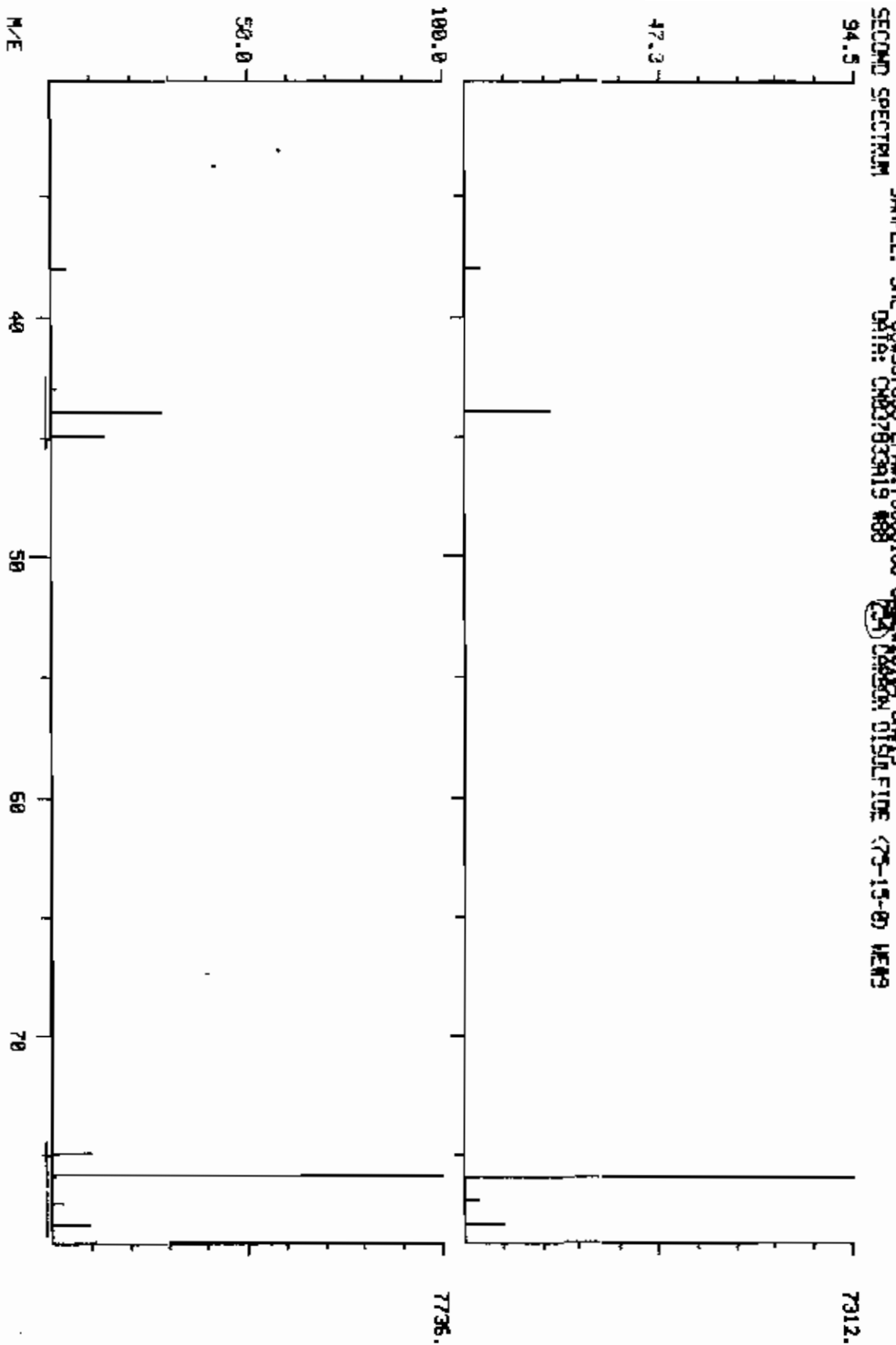
LIBRARY SEARCH
08-15-88 10:59:00 + 1.06
SAMPLE: SML CCM337833 EPR#173800106 CASE#28104 QM119
DATA: CCM337833A19 # 88 BRSE M/E: 76
ENHANCED (100 2M 0T) RICI 10207.

0.52
M HT 1005
E PK 76
RANK 1
IN 3
PUR 977



COMPUCHEM LABS

DUAL MASS SPECTRUM
08/15/99 19:59:00 + 1.05
SAMPLE: SML_C08337833 EP#173800106 CASE#201M DN#19
DATA: C083783819 #88 (24) CARBON DISULFIDE (75-15-0) WEN#9
BASE M/E: 76/ 76
R/C: 19191.1

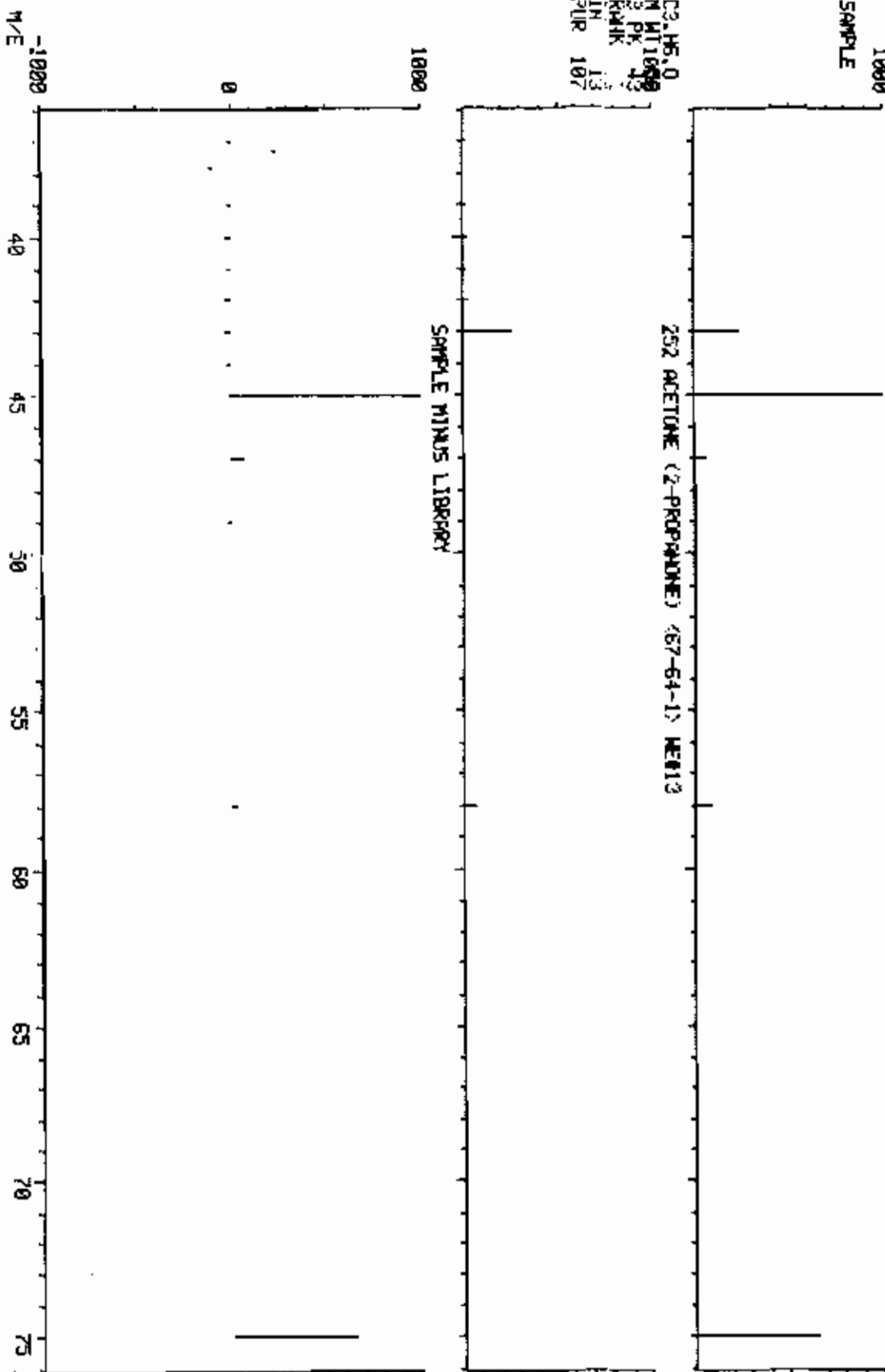


COMPUCHEM LABS

LIBRARY SEARCH
06/15/90 10:59:00 + 1709
SAMPLE: SWL CC#337833 EPR#173800106 CASE#28104 ON#19
DATA: CN037833A19 # 92
ENHANCED (100 2M 0T)
BASE N/E: 45
RICH

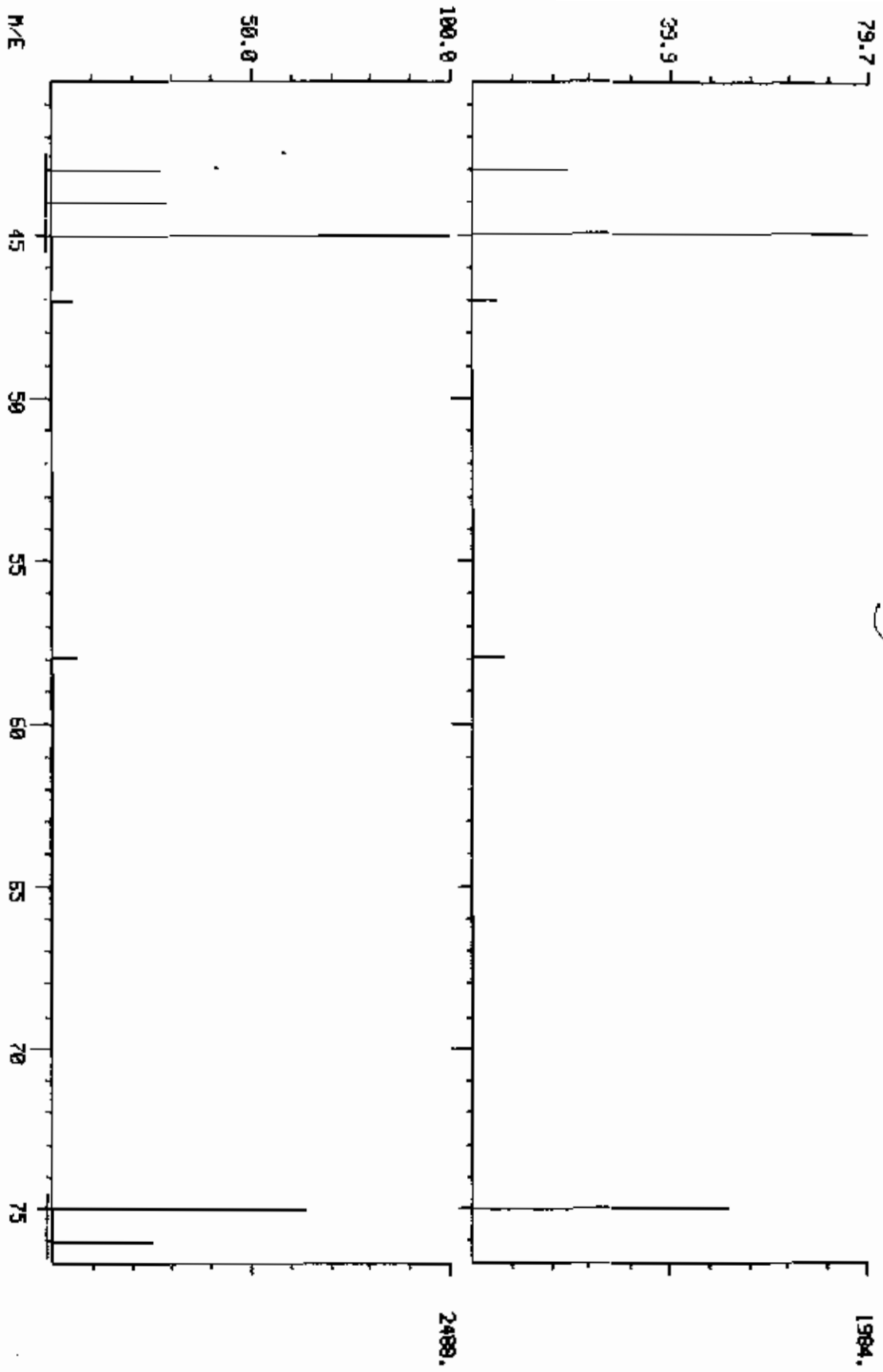
10000
SAMPLE

C3 H6 O
M M 1000
3 PK 43
KMK
LN 13
PUR 107



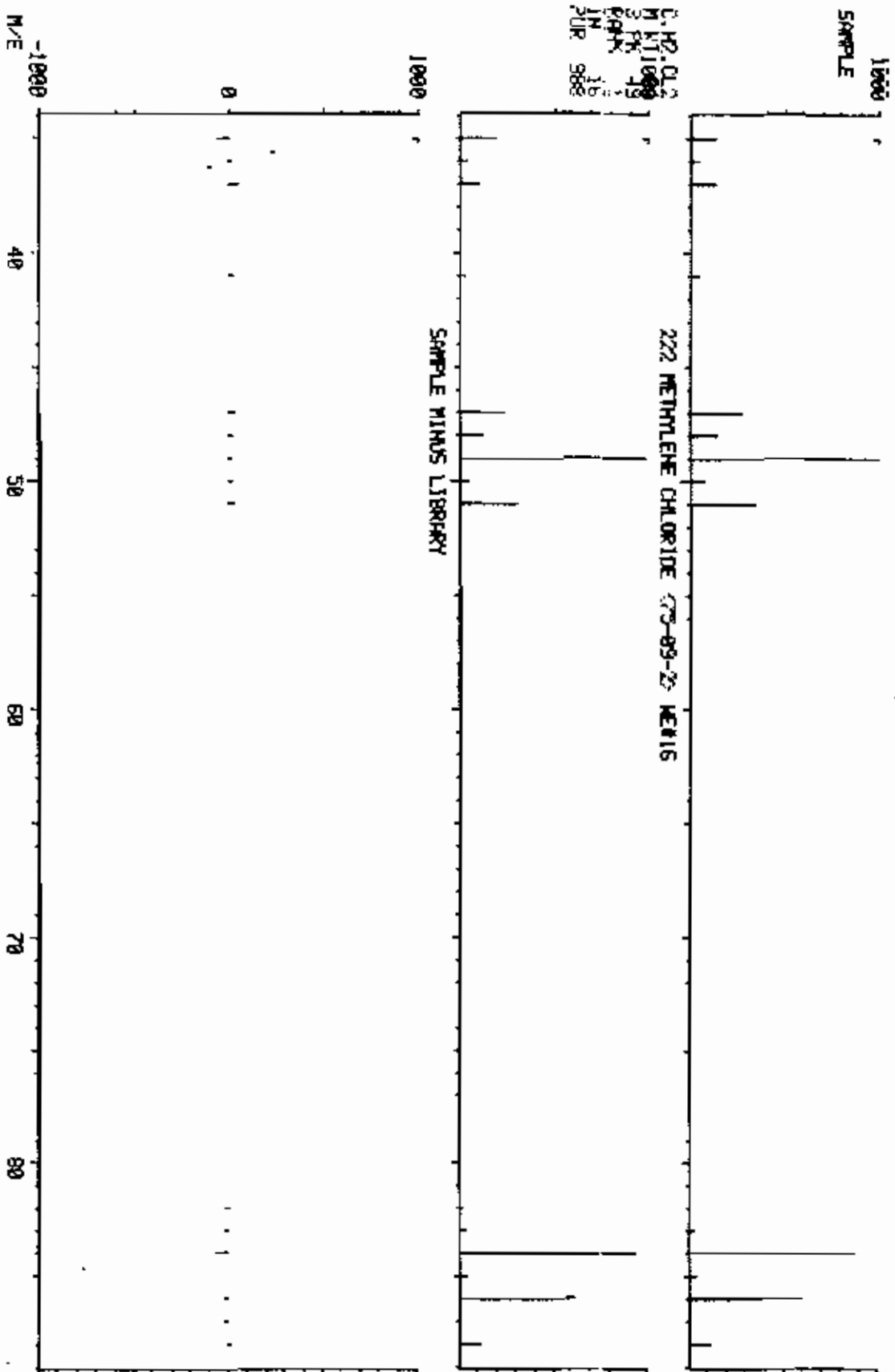
COMPUCHEM LABS
DATA: CN037833A19 #92
BASE M/E: 45 ✓
R1C1 4915. ✓
6387.

DUAL MASS SPECTRUM
05/15/99 10:59:00 + 1:09
SAMPLE: SWL_CN037833 EPA#173800106 CASE#20104 D#19
DATA: CN037833A19 #92 272 REF:ONE (2-PROPANONE) (57-64-1) MEM13



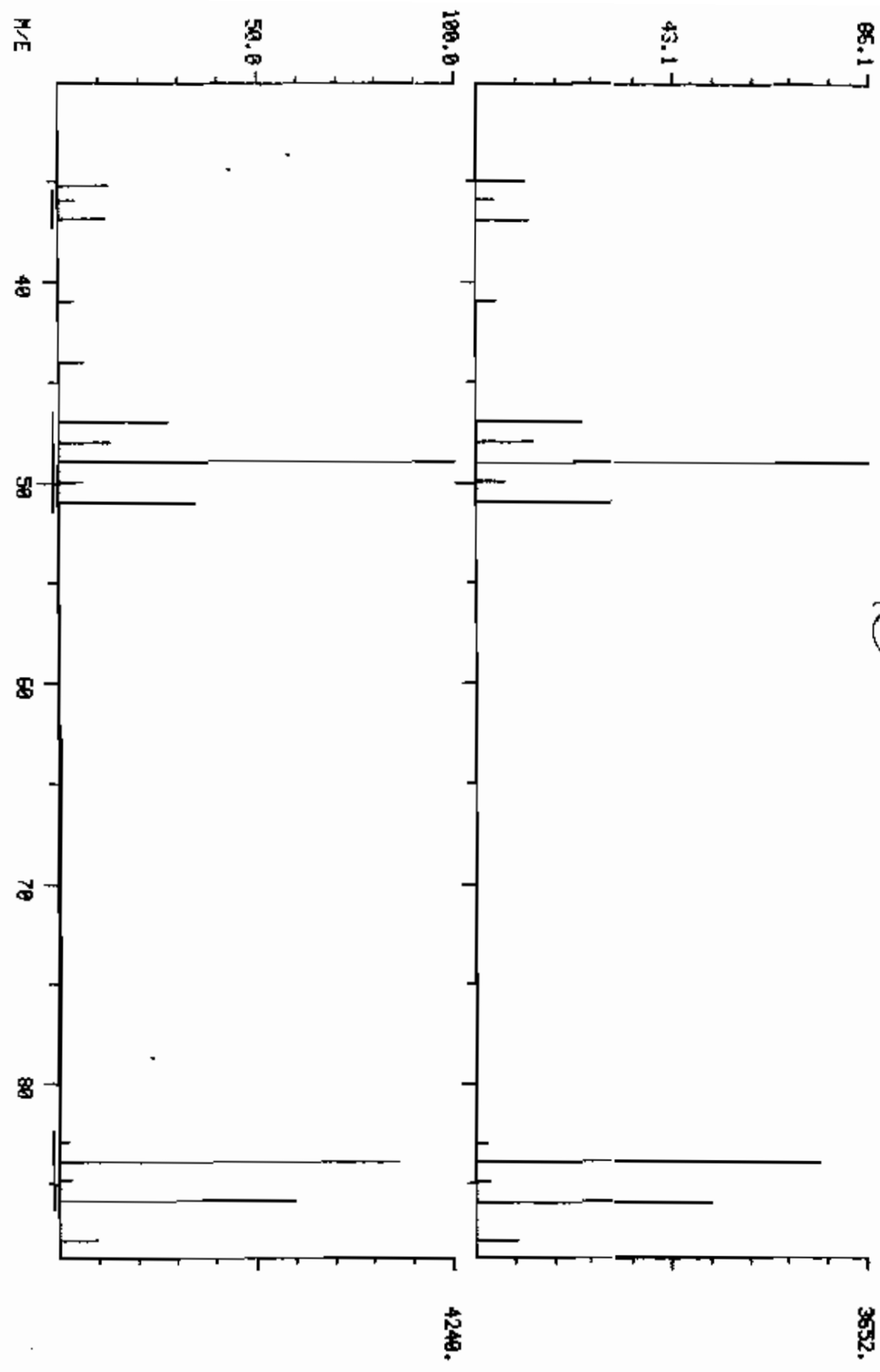
COMPUCHEM LIBS

LIBRARY SEARCH
08/15/90 10:50:00 + 1:26
SAMPLE: SML C0837833 EPR#173800106 C65E#201M 0N819
DATA: C0837833A19 # 115
ENHANCED (100 2N 8T)
BASE M/E: 49
RIC: 14962.



DUAL MASS SPECTRUM
 08/15/90 10:59:00 + 1.26
 SAMPLE: 5ML C0837833 EPA#17900106
 08/15/90 C0837833A19 #115

COMPUCHEM LABS
 DATA: C0837833A19 #115
 BASE M/E: 43/ 49
 R101 14063.0 15140.0
 CASE# 20104 08/15
 222 NETHYLENE CHLORIDE (75-83-2) HE#15



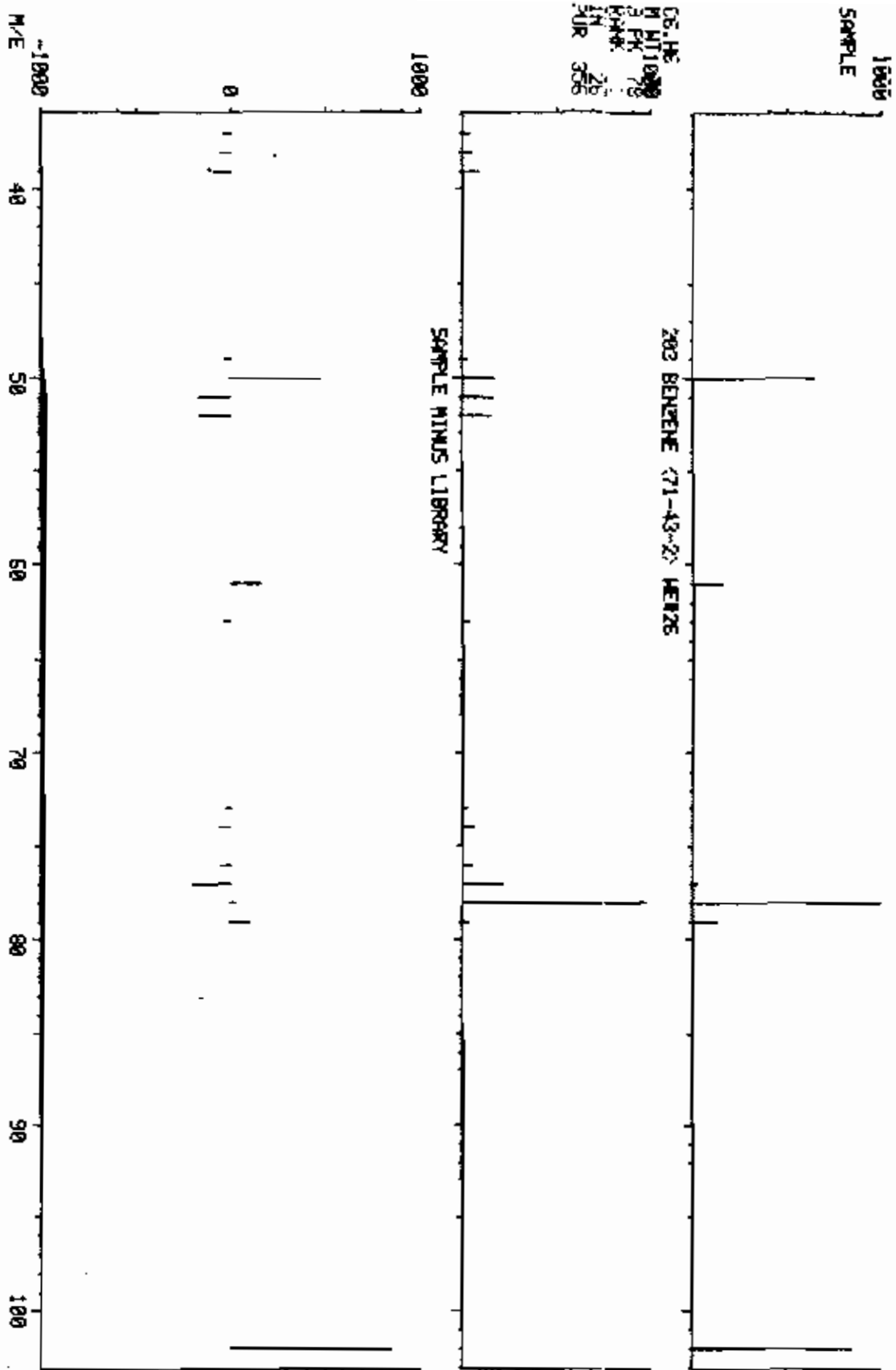
LIBRARY SEARCH
08/15/90 10:59:00 + 3:53
SAMPLE: SML CCM337833 EPR#173800106 CASE#28184 ON#19

COMPUCHEN LABS

DATA: CMB37833A19 # 311
ENLARGED (100 2N 0T)

BOSE M/E: 78
PIC: 1619.

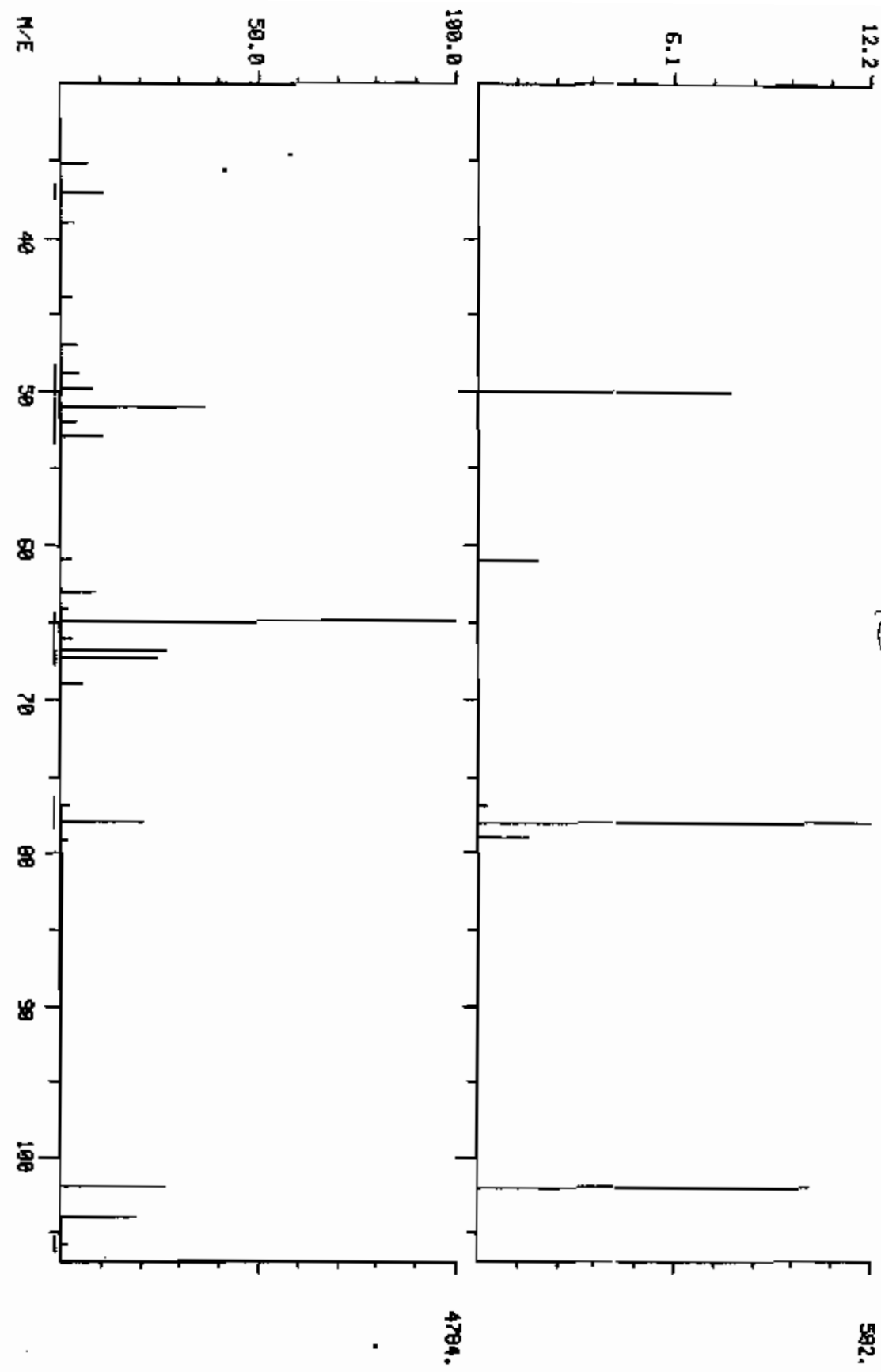
06.Hc
M HT1000
3 PM 78
KANK
IN 28
MUR 366



COMPUKEM L985

DUAL MASS SPECTRUM
05/15/90 10:59:00 + 21.53
SAMPLE: OPL DC837833 EP0417300105
DATA: CN837833A15 #311
BASE N/E1 79/ 63
PTC1 1619. ✓ 16201.

SECOND SPECTRUM
12.2
6.1
190.0
50.0
N/E

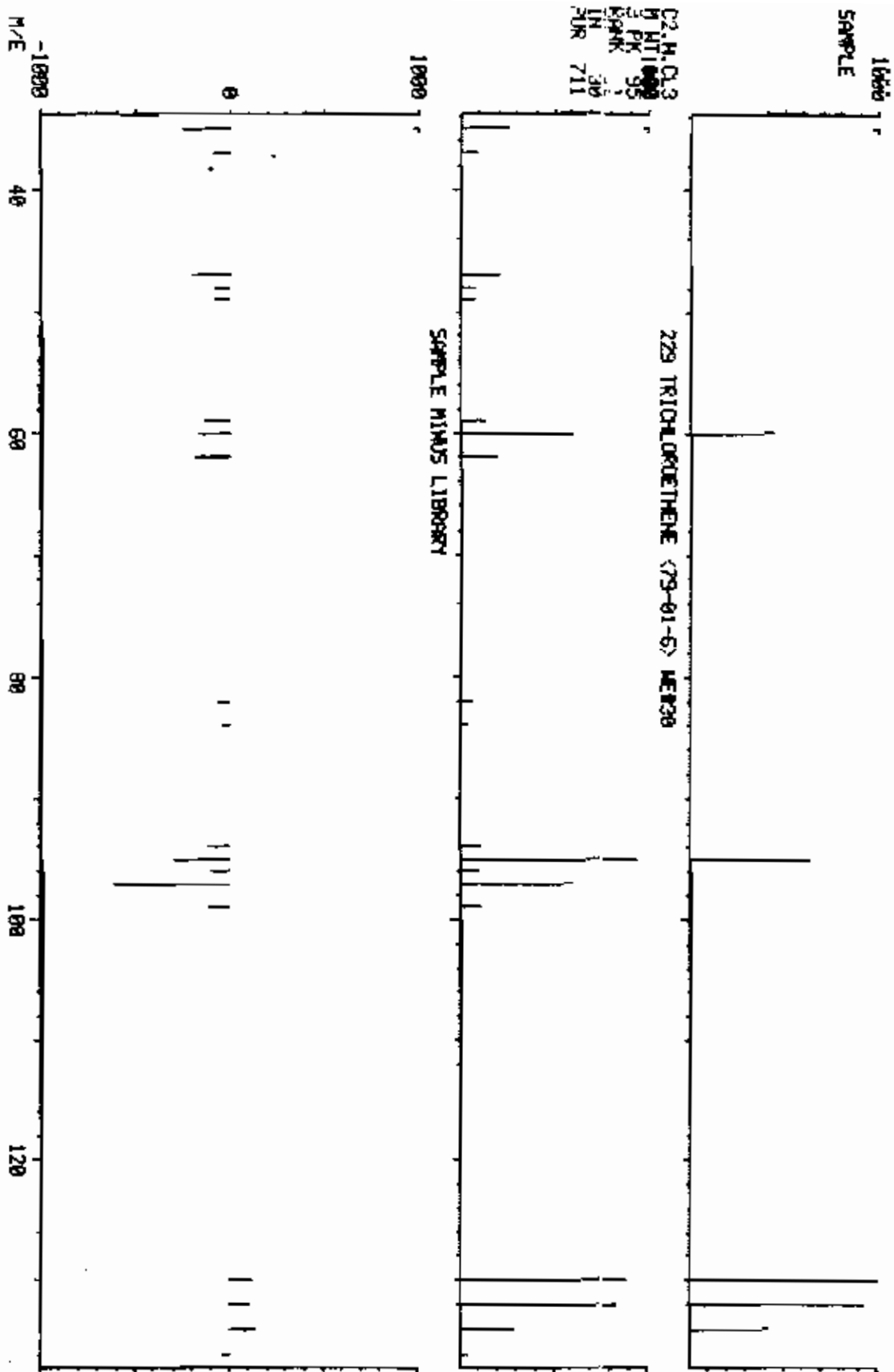


COMPUCHEN LABS

LIBRARY SEARCH
08/15/90 10:59:00 + 4:55
SAMPLE1 SML C08337833 EPA#173800106 C085820184 04819

DATA1 C0837833019 # 393
ENHANCED (100 2N 0T)

BASE M/E: 138
R1C1 927.



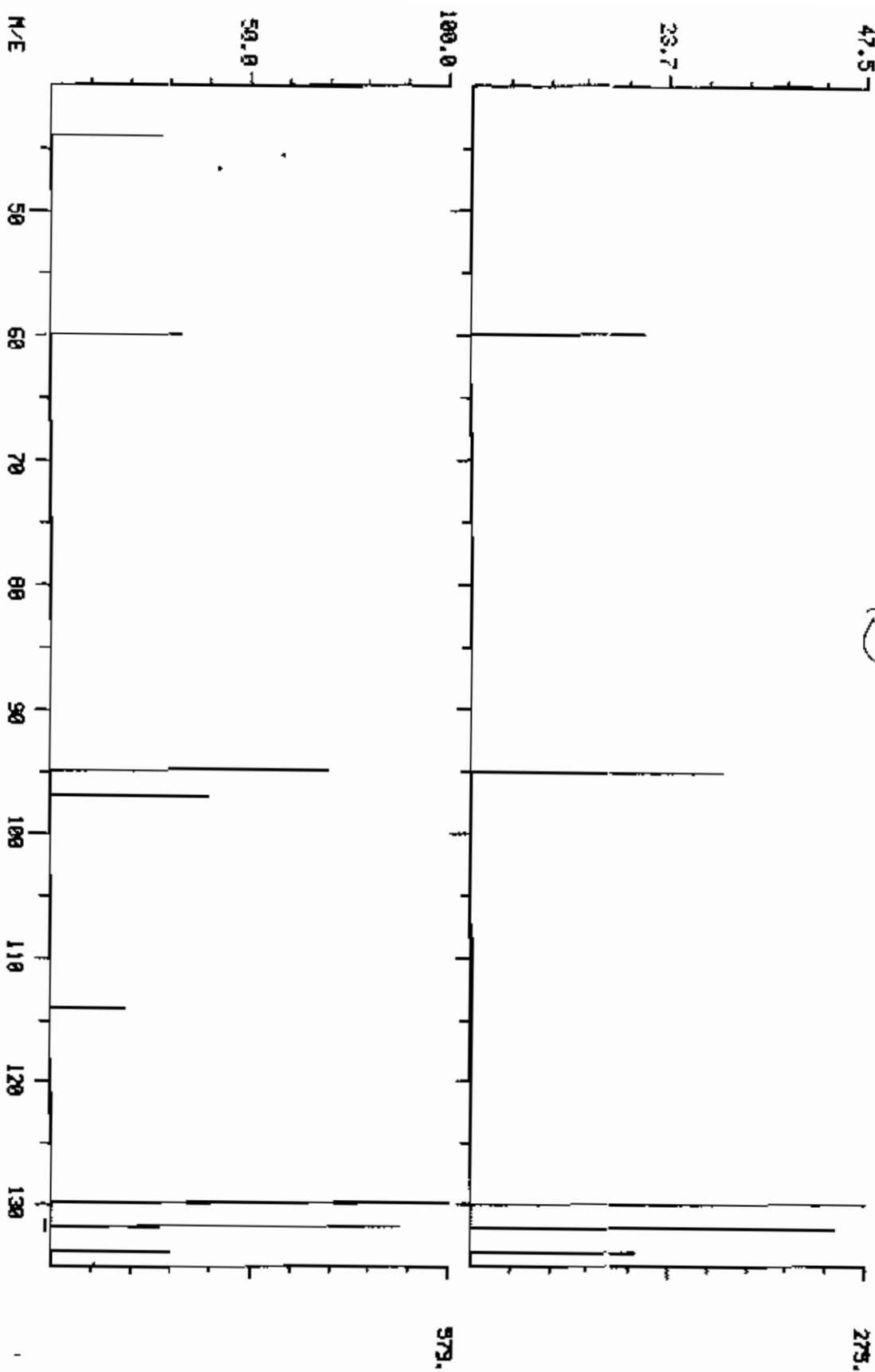
COMPUchem LABS

DATA1 DM837838A19 0393

BRSE M/EI 130/ 130
R1C 507.2247.

SECOND SPECTRUM

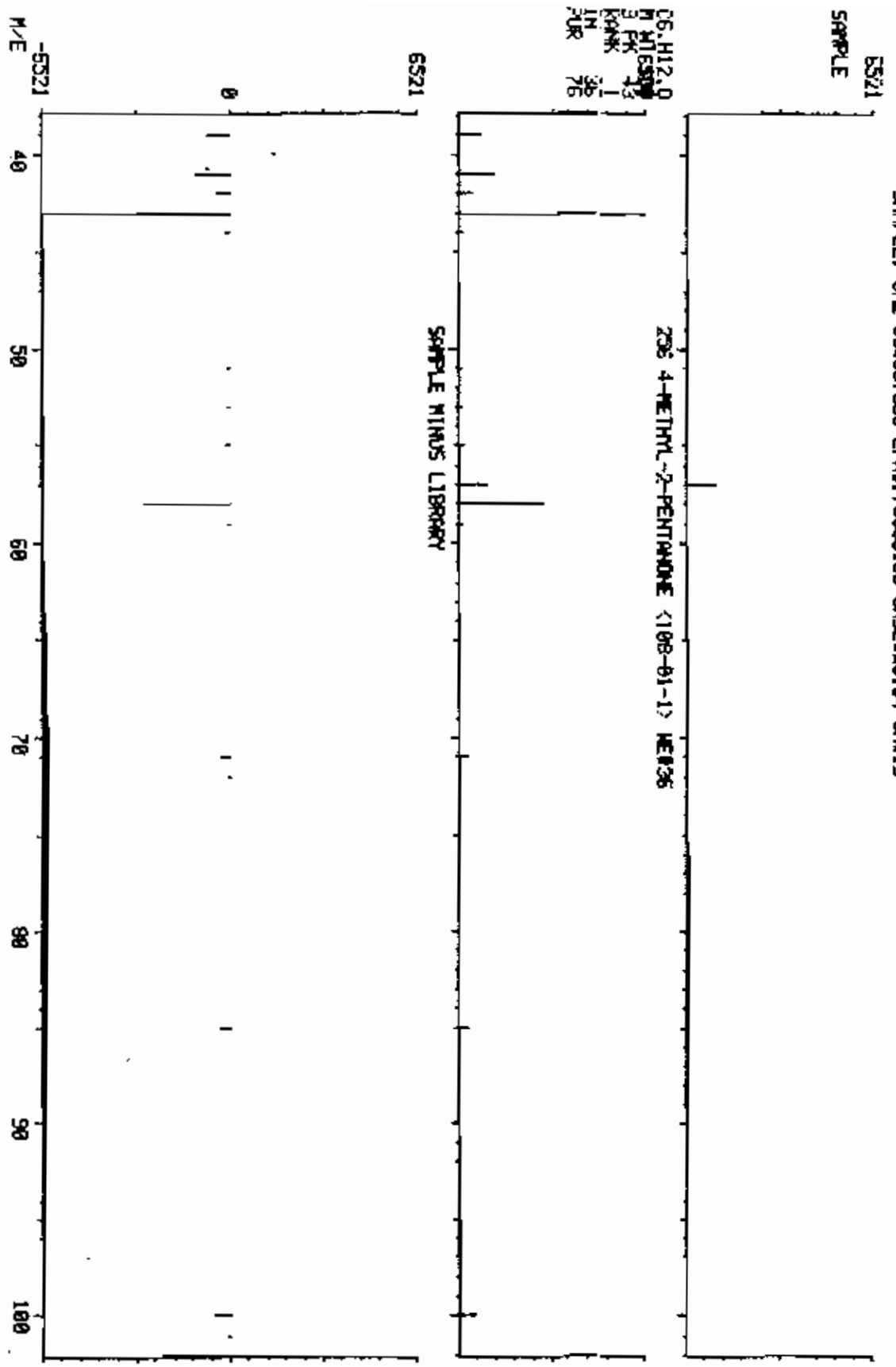
DUAL MASS SPECTRUM
08/15/98 10:59:00 + 4.156
SAMPLE: SWL CC0337833 EPAL173800106 CASE#29104 DM19
DATA: DM837838A19 0393
225 RICHLORETHENE (79-01-6) HE#38



LIBRARY SEARCH
08/15/88 10:59:09 + 7:04
SAMPLE: 5YL C08337833 EPA#173800106 CASE#20104 04819

COMPUCHEN LABS
DATA: C0837833919 # 565
ENHANCED (100 24 0T)
BASE M/E: 57
RIC: 79.

06.H12.D
M NISSAN
3 PK 13
KANK
IN 36
FOR 76

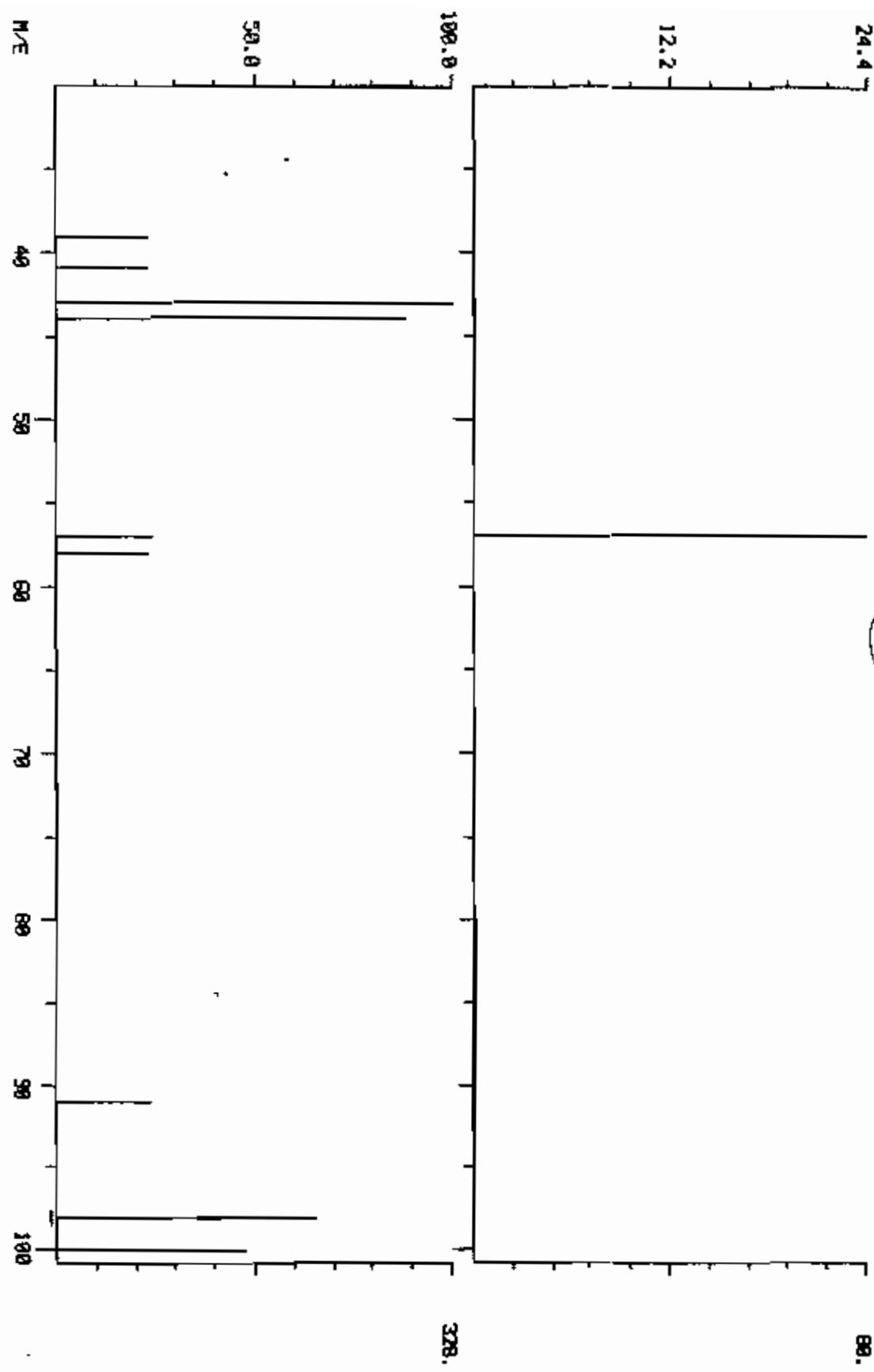


COMPUchem LABS

DATA: DMG7833R19 #565 BASE M/E: 57/ 43

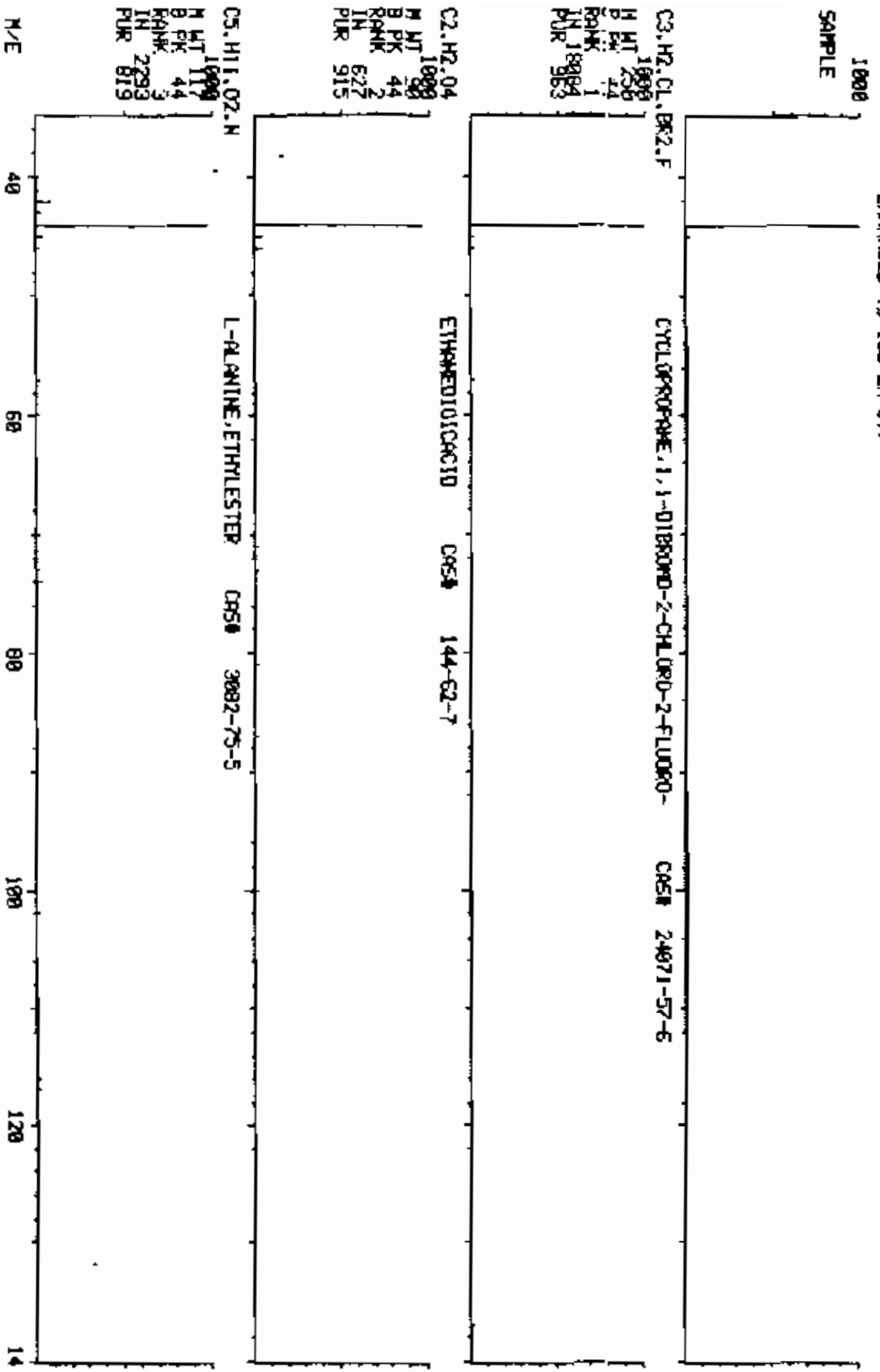
RICI 79.7 1072.

DUAL MASS SPECTRUM
06/19/90 10:59:00 + 7.04
SAMPLE: SML OC#337833 EPA#173000106 DOSE#20104 DM#19
DATA: DMG7833R19 #565 255 4 METHYL-2-PYRIMIDINE (199-01-1) MW:35



LIBRARY SEARCH
 08-15-90 10:59:00 + 0:26
 SAMPLE: 5ML C0637833 EPA#173800106 CASE#20104 0M019
 EVAPORATED (5 158 2H 01)

COMPUCHEN LABS
 DATA: C0637833019 # 35
 BRSE M/E: 44
 R101 4911.



RECEIPT DATE: 05/09/90 CASE#: 20124

VOA
GC/MS WORKSHEET COMPUTHEM#: 337833

J1 [] J31 [] D1 [] (:1)
2J1 [] J41 [] D21 [] (:1)

GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code--- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

=====

SAMPLE ID#: T3800106

=====

GC/MS ANALYSIS

Amount Purged: [] 5 ml or [] Dilution _____
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added _____ ul
BFB Filename B-900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename ON037933A19 Disk ()

1500ul Sparged
MAY 11 1990
ALLEN J. JONES
WORK-UP

ANALYST(S): Injection 1492/Allen Jones Work-up 1492/Allen Jones

=====

GC/MS REVIEW

CONDITION
CODE

OK

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 1

~~REJECT~~

[] Reinject Neat

Quality Assurance Notice(s):

Notices Required 2

[] Dilute (:1)

COMMENTS:

GC/MS Review OK Date 5/17/90 Auditor _____ Date ____/____/____

=====

REPORT INTEGRATION

Total # of Injections: _____

Final Reportable Package(s): CS0-A19

=====

QA COMMENTS:

Initials _____ Date ____/____/____

=====

FINAL REVIEW:

Initials _____ Date ____/____/____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

QMF #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	246	46200	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
207	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE			9.2	9	5
292	43	ACETONE (2-PROPANONE)			17.0	17	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	375	184000	50.0		
222	84	METHYLENE CHLORIDE			23.2	23.0	5
225	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE			2.0	BDL 2.0	5
237	43	VINYL ACETATE				BDL	10
207	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE			4.4	4J	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	05-CHLOROENZENE (IS)	747	124000	50.0		
229	130	TRICHLOROETHENE			2.7	3J	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
216	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE			3.3	3J	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M,P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	BTYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 B	D4-1,2-DICHLOROETHANE WE#57			45.0	90. X	
247	95 S	BROMOFLUOROBENZENE			46.5	93. X	
233	98 S	D8-TOLUENE WE#59 SS#2			47.7	95. X	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

OKA
(GC/MS DATA REVIEWER)

DATE

5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
		3979.	1368	354200.		351.8	62.

CORRECTED/REVIEWED BY *D. Studd*
(GC/MS DATA REVIEWER)DATE 5.17.90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE-COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	45.0	50.0	90.	76-114	X	
41	247	BROMOFLUOROBENZENE	46.5	50.0	93.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	47.7	50.0	95.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

$$= 1.00 =$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *C. K. Stuber*
 (GC/MS DATA REVIEWER)

DATE 5/17/90

QUALITY ASSURANCE NOTICE

CompuChem # 337532

Blank ID # CB900517019

Case # 0127

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8248" and "Semivolatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/L</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/kg; acetone may not exceed 50 ug/kg. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
Manager, Quality Assurance

C-11286

B-1026

QUALITY ASSURANCE NOTICE

CompuChem # 337833

Instrument Blank : 40906515019

Client ID # 73864106

Case 20014

The early-eluting peak on the RIC of the volatile fraction at scan # 35 is an instrument artifact believed to be a mixture of water and various atmospheric gases. This peak is usually present at less than 10% of the nearest-eluting internal standard peak height, although it may exceed this height under certain instrument conditions.

Periodically, a number of maintenance procedures are performed in an effort to reduce the intensity of this artifact. These procedures may include:

- trap replacement
- reconditioning and/or replacing column
- replacing six-port valve in Tekmar
- cleaning of the separator
- cleaning or replacing source
- replacing lines in Tekmar

In many cases, even after maintenance, the artifact peak remains at a height greater than 10% of the nearest internal standard. Since the analytical quality of these data have not been compromised, we are reporting this analysis with reference to this qualifier. The artifact is not included as part of the Library Search requirements for the associated samples.

Robert J. Whitehead
Manager, Quality Assurance

QA:TSU
872917

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800107

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337834

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN017834A19

Level: (low/med) LOW Date Received: 05/09/90

Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	1	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethane	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800107

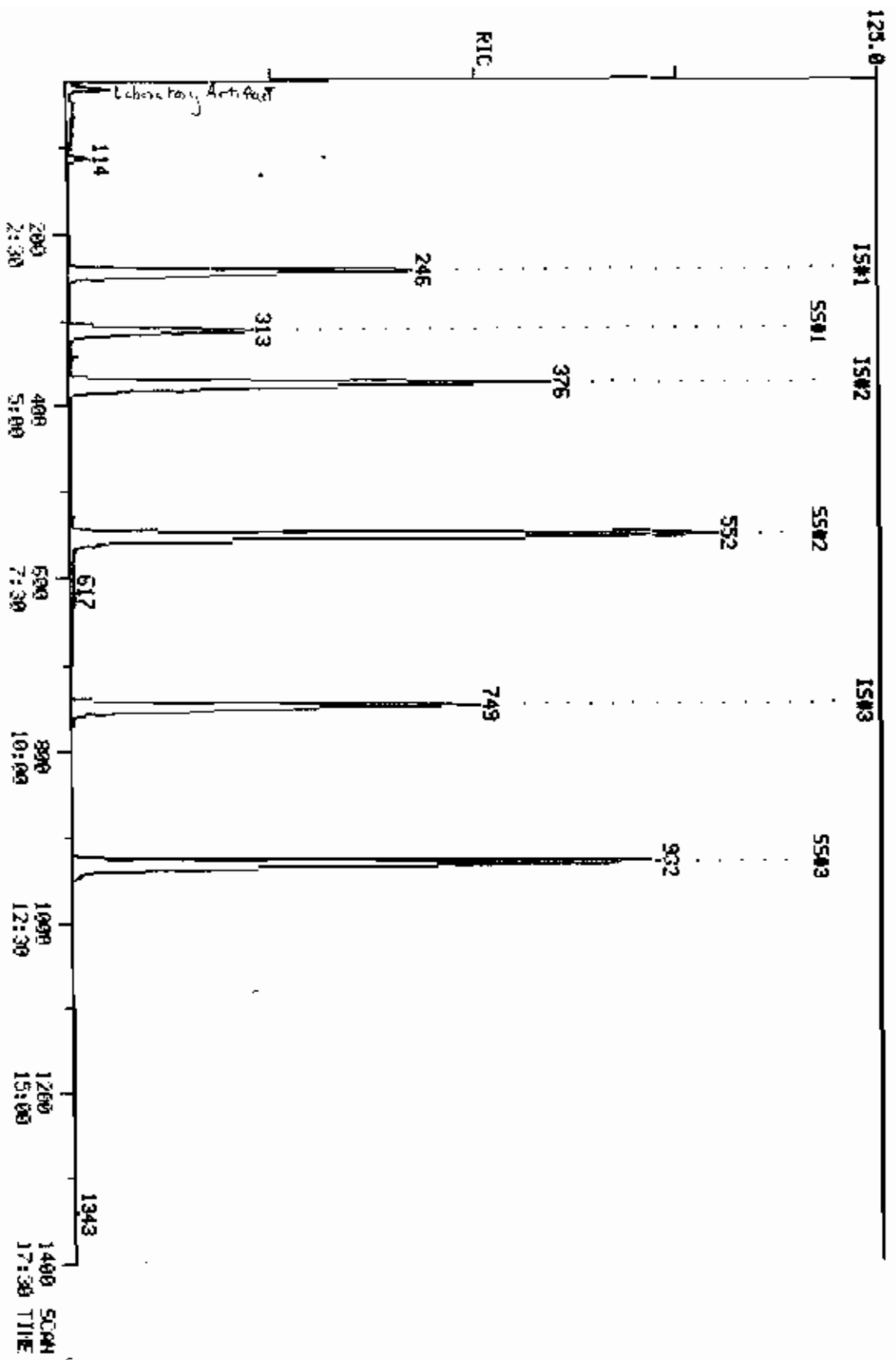
Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMFU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337834
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037834A19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/15/90
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. COHC.	Q
1.	LABORATORY ARTIFACT	0.45	2.0	J

RIC
 06/15/90 11:41:00
 SAMPLE: 5ML C0337834 EPA#173800107 CRSE#28104 DM#19
 COND5.1
 81280.

COMPUTER LABS
 COMPUTER DATA C0337834019 SCANS 26 TO 1400



QUANTITATION REPORT FILE: CNO37834A19
 DATA: CNO37834A19.TI
 05/15/90 11:41:00
 SAMPLE: SML CC#337834 EPA#: 73800107 CASE#20104 DN#19
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1492

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-79-6> WE#42
32	208 DIBROMOCHLOROMETHANE, 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#5B SS#3
42	*233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (NCHT)	AMOUNT	XTOT
1	128	246	3:04	1	1.000	A 88	46668.	50.000 UG/L	16.42
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	92	1:09	1	0.374	A BB	702.	2.903 UG/L	0.95 AC
9	114	375	4:41	9	1.000	A BB	189732.	50.000 UG/L	14.42
10	84	115	1:26	1	0.467	A BB	2553.	3.122 UG/L	1.03 YL
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	749	9:22	21	1.000	A BB	121548.	50.000 UG/L	14.42
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	313	3:55	1	1.272	A BB	59277.	50.704 UG/L	14.65
41	95	933	11:40	21	1.246	A BB	64257.	14.919 UG/L	14.75
42	98	553	6:55	21	0.738	A BB	191174.	52.854 UG/L	17.36

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39		10.000			50.00		0.751	
6	1:03		5.000			50.00		1.389	
7	1:07		5.000			50.00		3.616	
8	1:11	0.97	10.000	0.04	2.90	50.00	0.019	0.259	0.04
9	4:45	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	0.99	5.000	0.09	3.12	50.00	0.053	0.876	0.06
11	1:40		5.000			50.00		0.941	
12	2:05		5.000			50.00		1.103	
13	2:19		10.000			50.00		0.255	
14	2:49		5.000			50.00		0.937	

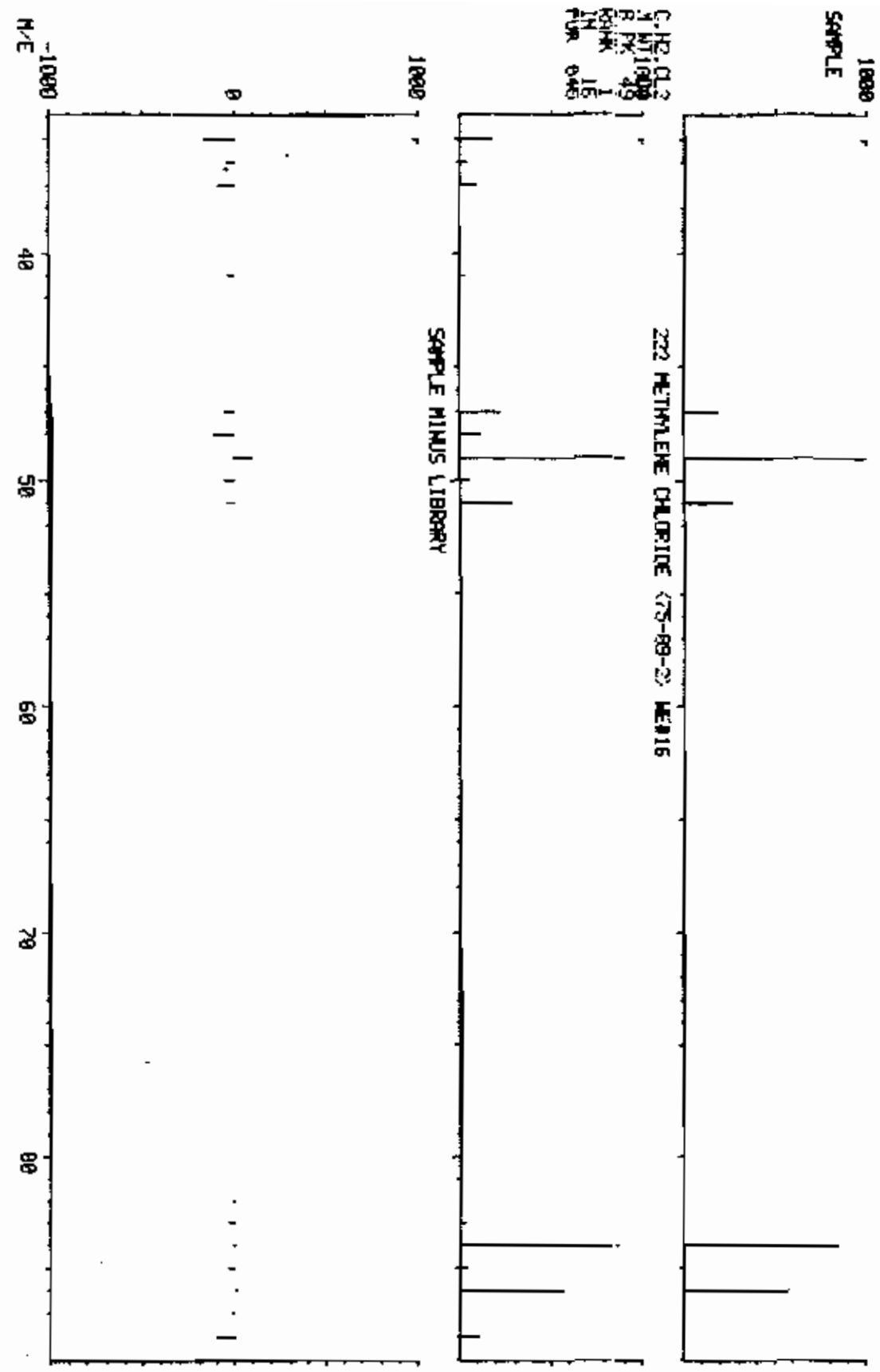
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55		5.000			50.00		0.495	
20	4:04		5.000			50.00		1.236	
21	9:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.453	
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.362	
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.746	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	0.98	5.000	0.25	50.70	50.00	1.270	1.253	1.01
41	11:42	1.00	5.000	0.25	44.92	50.00	0.529	0.588	0.90
42	6:57	0.99	5.000	0.15	52.85	50.00	1.573	1.488	1.06

COMPUchem LABS

LIBRARY SEARCH
08/18/00 11:41:00 + 11:26
SAMPLE: 5M1 C0837834 EPA#173800107 CASE#20104 QM#19
ENHANCED (5 158 21 81)

DATA: C0837834A19 # 119
BASE M/E: 49
R/C: 1721.

C.H. Cl 2
M.W. 100.0
R.F. 49
KOHK 1
TM 16
PUB 046

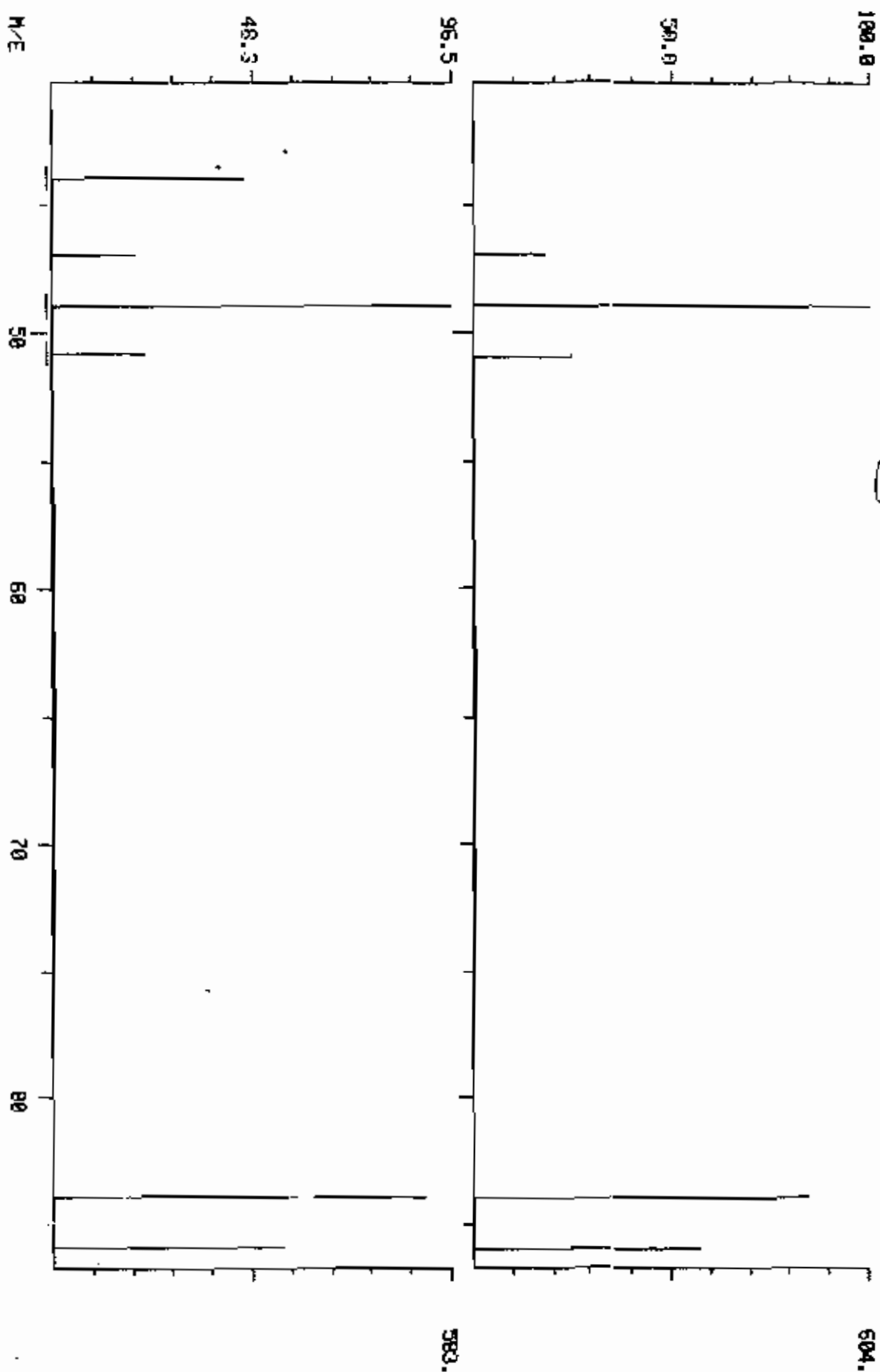


COMPUCHEM LIBS

DATA: CH037834A19 #115

BASE M/E: 49/ 49
R/C: 1721.1/ 2001.

DUAL MASS SPECTRUM
DE/IS-50 11:41:00 + 1:26
SAMPLE: SWL CH037834 EPA#173800107 CASE#28104 DM#19
ENHANCED (5 158 2H) 222 METHYLENE CHLORIDE (75-09-2) MW:16



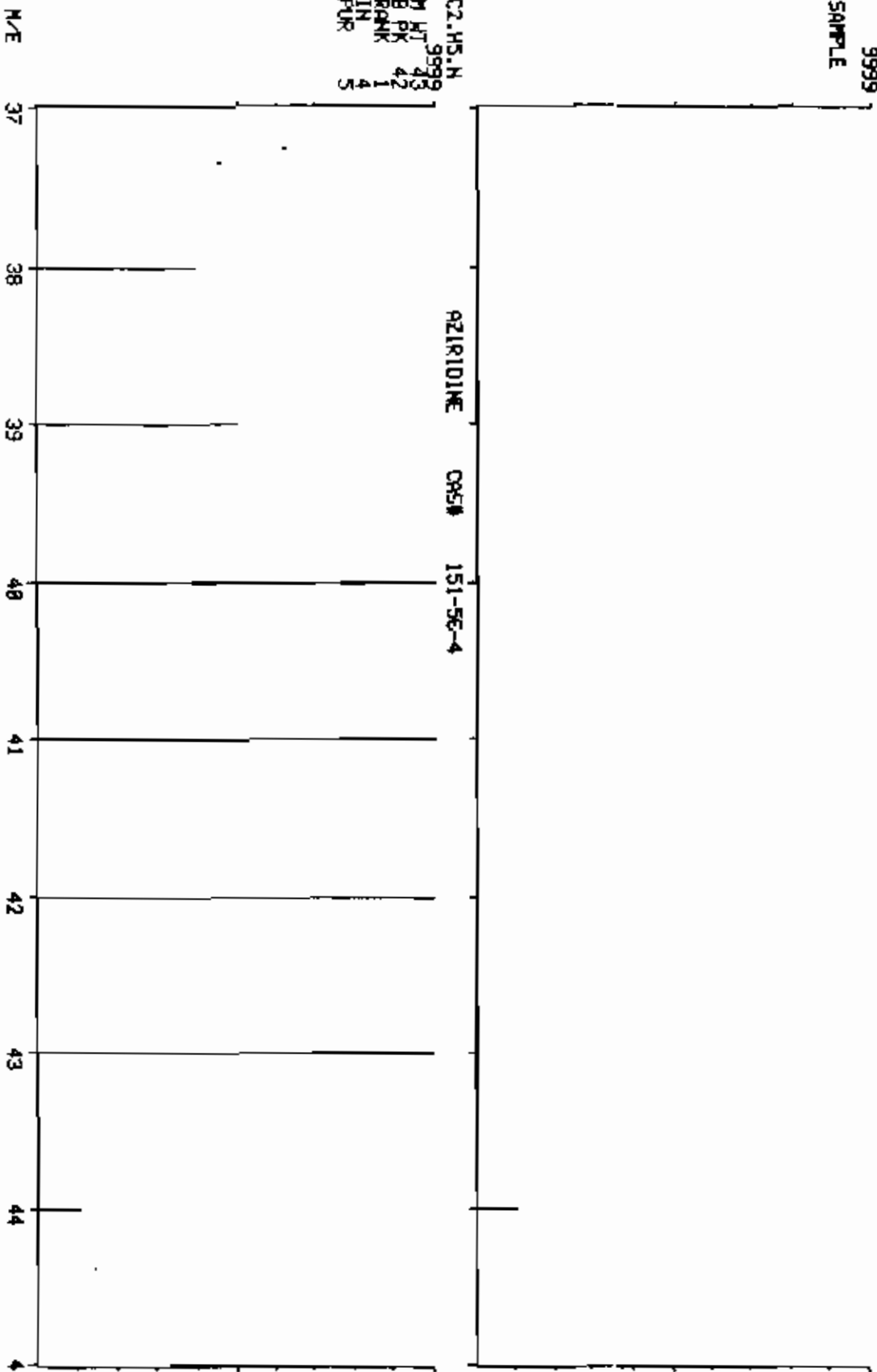
9999
SAMPLE

LIBRARY SEARCH
08/15/90 11:41:08 + 0:27
SAMPLE: SML CC#37834 EP#A173600107 CASE#20194 Q#19
ENHANCED (5 198 2K 9T)
DATE 5/7/90

COMPUchem LABS

DATA: CN037834A19 # 36
BASE M/E: 44
R/C: 2040.

C2.H5.N
9999
M HT 43
E PK 42
RANK 1
IN 4
FOR 5



RECEIPT DATE: 05/09/90

CASE#: 20124

VOA
GC/MS WORKSHEET

COMPUCHEM#: 337834

JC J JJC J DC J (:1)
2JC J J4C J D2C J (:1)

GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code---- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

=====

SAMPLE ID: 73800107

=====

GC/MS ANALYSIS

Amount Purged: [✓] 5 nls or [] 5 Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added _____ 5 ul
Surrogate Standard Volume Added _____ 5 ul
BFB Filename BF900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename CN037834A19 Disk ()

ANALYST(S): Injection 1492/Allen Fish Work-up 1492/Allen Fish

=====

GC/MS REVIEW

CONDITION
CODE

OK

Disposition: [✓] Complete

RECEIVED
MAY 18 1990
INTEGRATED

Extraneous Peak Search Results:

of Peaks Found: 1

[] Reinject Neat

Quality Assurance Notice(s):

Notices Required 2



[] Dilute (:1)

COMMENTS:

GC/MS Review OK Date 5/17/90 Auditor _____ Date ____/____/____

=====

REPORT INTEGRATION

Total # of Injections: 1

Final Reportable Package(s): CN0-A19

=====

QA COMMENTS:

Initials _____ Date ____/____/____

=====

FINAL REVIEW:

Initials _____ Date ____/____/____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

COMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	246	46700	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			2.9	BDL 3J	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	375	190000	50.0		
222	84	METHYLENE CHLORIDE			3.1	3J B	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
207	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	749	122003	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
259	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M,P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	68 B	04-1,2-DICHLOROETHANE WE#57			50.7	101. %	
247	95 S	BROMOFLUOROBENZENE			14.9	90. %	
233	98 S	D8-TOLUENE WE#59 SB#2			52.9	106. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

OKJLS
(CC/MS DATA REVIEWER)

DATE

5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
	3979		1370	358700	304.5		6.

CORRECTED/REVIEWED BY *Chad St. John*
(GC/MS DATA REVIEWER)DATE 5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	50.7	50.0	101.	76-114	X	
41	247	BROMOFLUOROBENZENE	44.9	50.0	90.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	52.9	50.0	106.	88-110	X	

< ADVISORY SURROGATE ONLY
 ++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 X

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

$$1.00 =$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *DeStade*
 (CC/MS DATA REVIEWER)

DATE 5/7/80

QUALITY ASSURANCE NOTICE
CompuChem # 337834
Instrument Blank : C8900515C19
Client ID # 73805107
Case 20124

The early-eluting peak on the RIC of the volatile fraction at scan # 36 is an instrument artifact believed to be a mixture of water and various atmospheric gases. This peak is usually present at less than 10% of the nearest-eluting internal standard peak height, although it may exceed this height under certain instrument conditions.

Periodically, a number of maintenance procedures are performed in an effort to reduce the intensity of this artifact. These procedures may include:

- trap replacement
- reconditioning and/or replacing column
- replacing six-port valve in Tekmar
- cleaning of the separator
- cleaning or replacing source
- replacing lines in Tekmar

In many cases, even after maintenance, the artifact peak remains at a height greater than 10% of the nearest internal standard. Since the analytical quality of these data have not been compromised, we are reporting this analysis with reference to this qualifier. The artifact is not included as part of the Library Search requirements for the associated samples.

Robert J. Whitehead
Manager, Quality Assurance

QA:19U
872917

QUALITY ASSURANCE NOTICE

CompuChem # 337834
Blank ID # TR400515C15
Case 20124

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8240" and "Semivolatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/lb</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated "Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/lb; acetone may not exceed 50 ug/lb. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Litchhead
Manager, Quality Assurance

C-4295
E-1026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800108

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337835

Sample wt/vol: 5.0 (g/mL) ML Lab Pile ID: CN017835A19

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	2	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethane	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethane (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800108

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337835
 Sample wt/vol: 3.0 (g/mL) ML Lab File ID: CN037835A19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/15/90
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	0.42	2.0	J

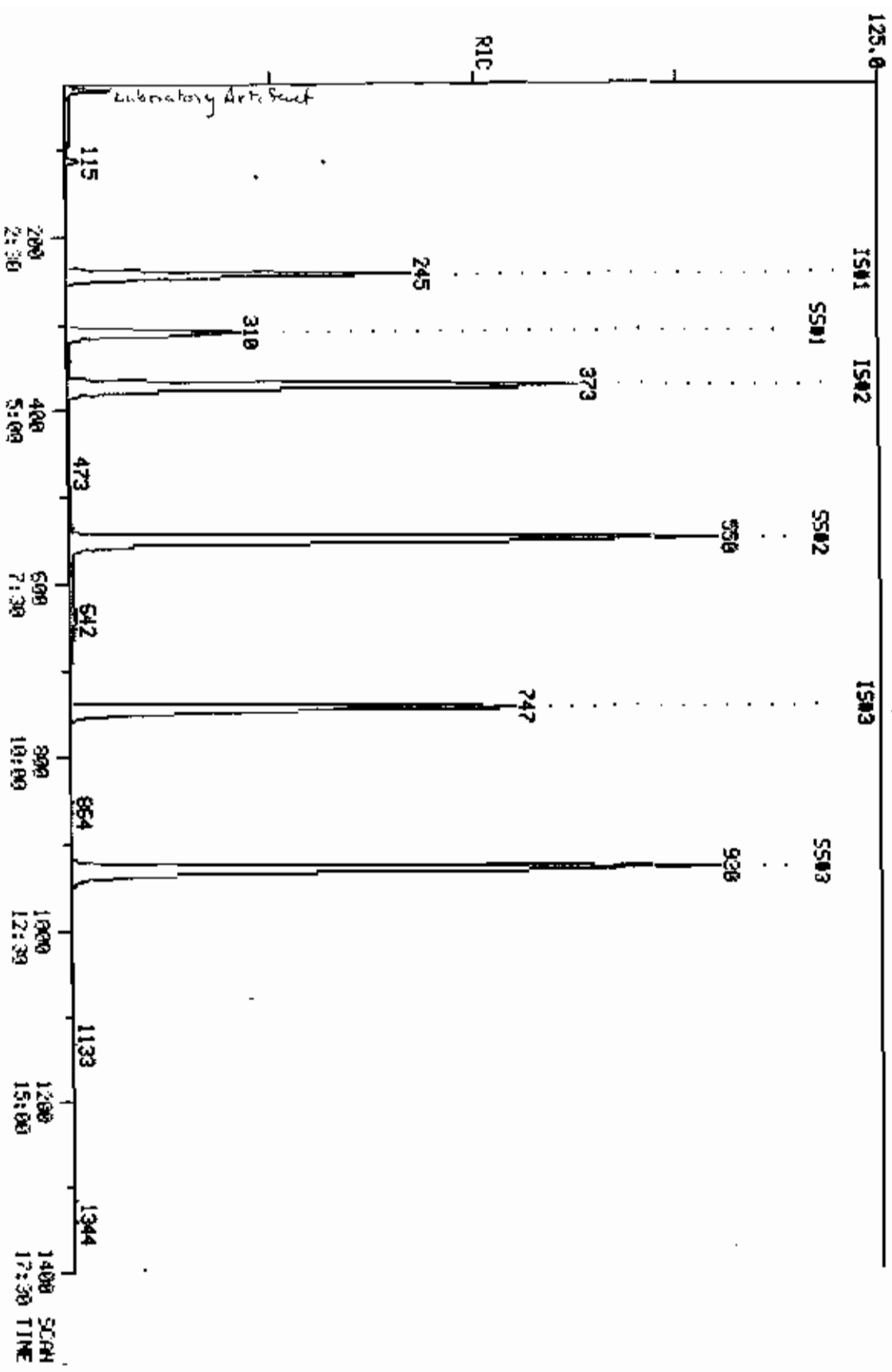
FORM I VOA-TIC

1/87 Rev.

RIC
 05/15/98 12:09:00
 SAMPLE #1L C08337835 EP#0173800108 CASE#26184 ON#13
 COMDS.:
 20110

COMPUCHEN LABS
 COMPUCHEN DATA C0833783519 SC016 26 TO 1400

73768.



QUANTITATION REPORT FILE: CN037835A19
 DATA: CN037835A19.T1
 05/15/90 12:08:00
 SAMPLE: 3ML CC#337835 EPA#: 73800108 CABE#20104 DN#19
 CONDS: 2 5/17/90
 SUBMITTED BY: 19 ANALYST: 1492

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY.

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DIBULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	*233 D8-TOLUENE WE#39 SS#2

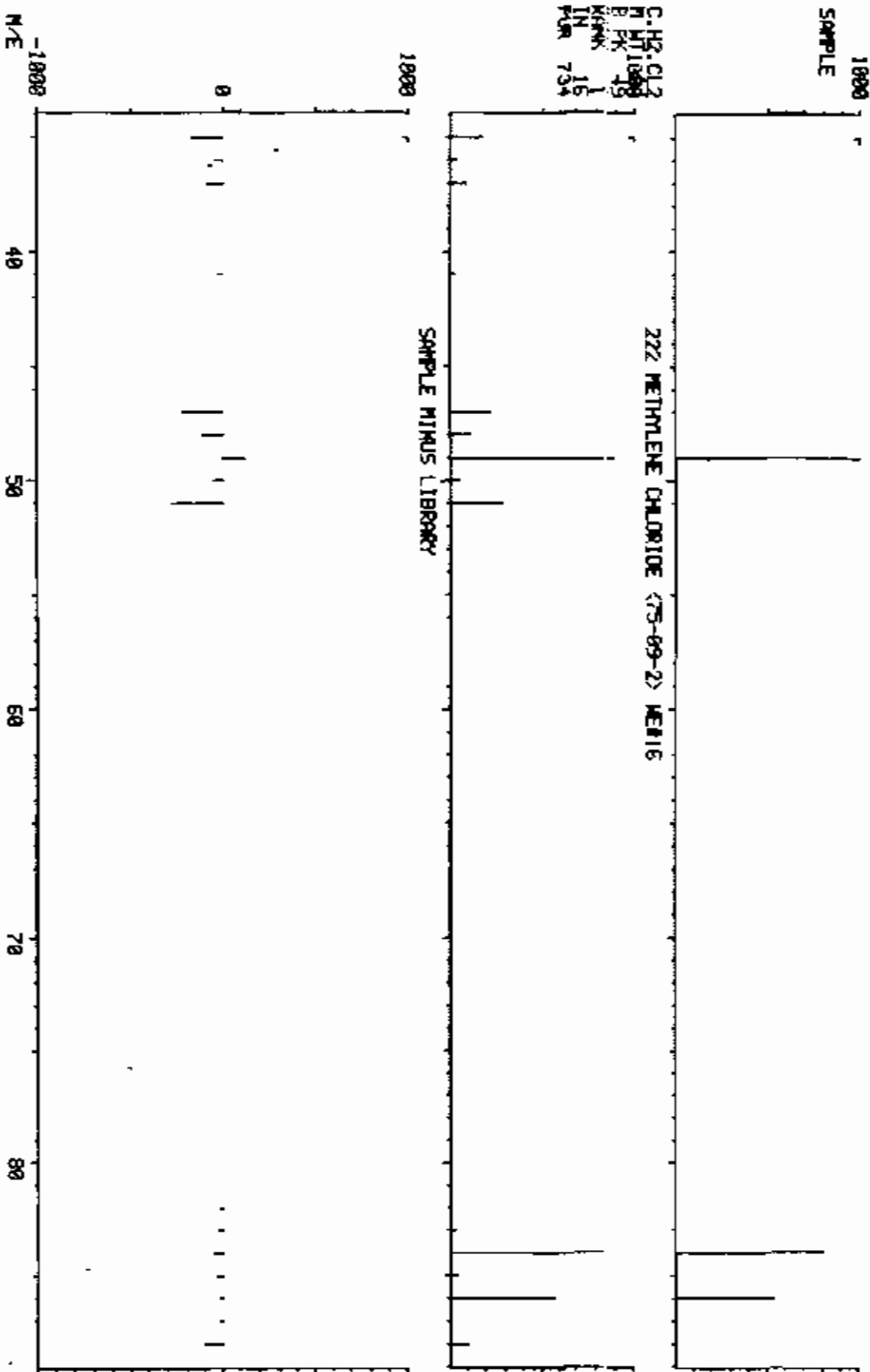
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCKT)	AMOUNT	XTOT
1	128	244	3:03	1	1.000	A BB	43117.	50.000 UG/L	17.29
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	373	4:40	9	1.000	A BB	175297.	50.000 UG/L	17.29
10	84	113	1:25	1	0.463	A BB	1252.	1.657 UG/L	0.57
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	747	9:20	21	1.000	A BB	121569.	50.000 UG/L	17.29
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	310	3:52	1	1.270	A BB	46008.	42.595 UG/L	14.73
41	95	930	11:37	21	1.245	A BB	66955.	16.797 UG/L	16.18
42	98	550	6:52	21	0.736	A BB	174634.	48.273 UG/L	16.69

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39		10.000			50.00		0.751	
6	1:03		5.000			50.00		1.389	
7	1:07		5.000			50.00		3.616	
8	1:11		10.000			50.00		0.259	
9	4:45	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	0.97	5.000	0.09	1.66	50.00	0.029	0.876	0.03
11	1:40		5.000			50.00		0.941	
12	2:05		5.000			50.00		1.103	
13	2:19		10.000			50.00		0.255	
14	2:49		5.000			50.00		0.937	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55		5.000			50.00		0.499	
20	4:04		5.000			50.00		1.236	
21	9:24	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.455	
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.362	
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.746	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	0.97	5.000	0.25	42.60	50.00	1.067	1.253	0.85
41	11:42	0.99	5.000	0.25	46.80	50.00	0.551	0.388	0.94
42	6:57	0.99	5.000	0.15	48.27	50.00	1.437	1.488	0.97

LIBRARY SEARCH
05/15/90 12:00:00 + 1.25
SAMPLE1 SNL CN0337835 EPA#173800108 CASE#20104 QN#19
ENHANCED (5 198 24 81)

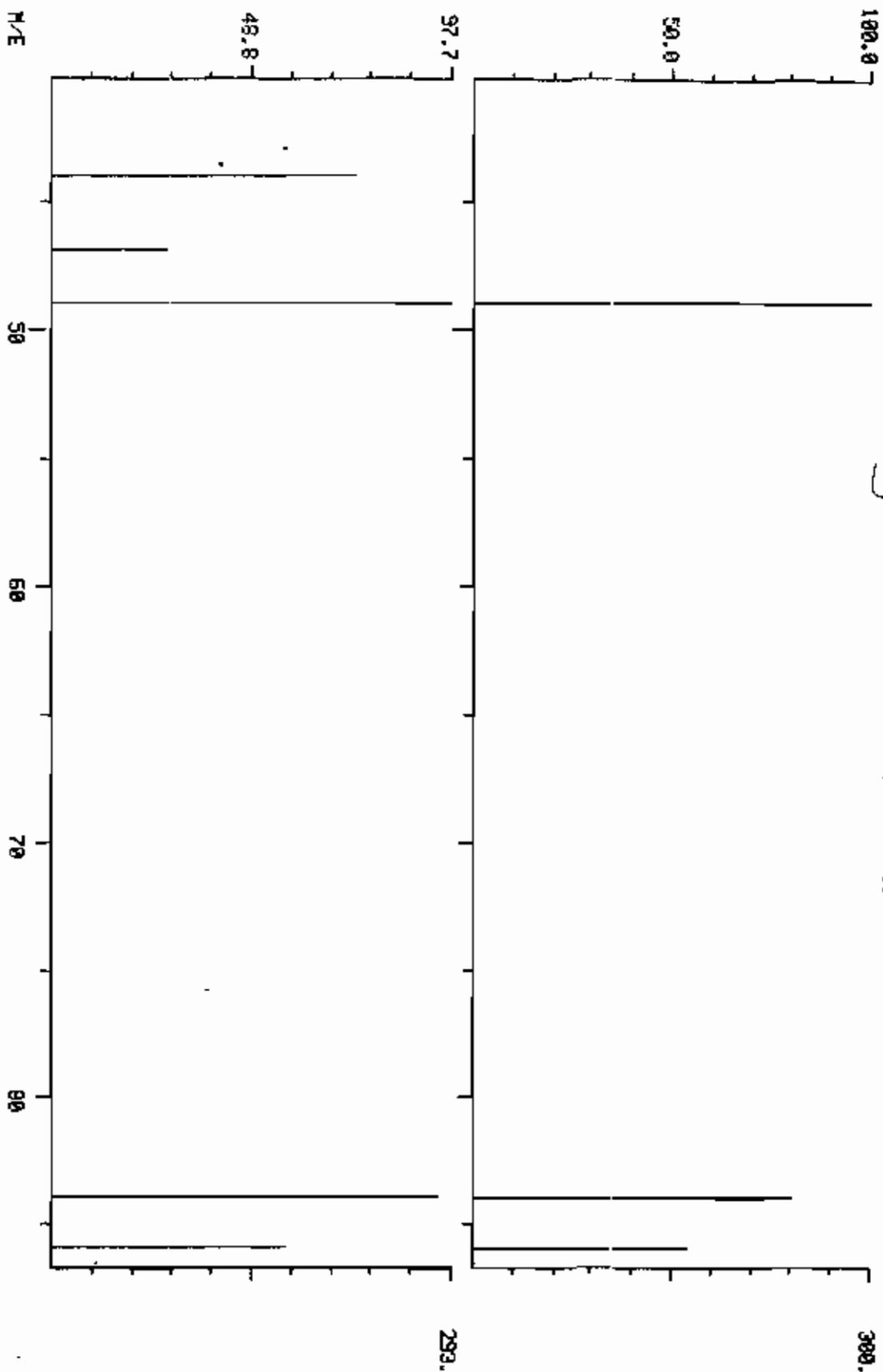


COMPUCHEM LABS

DATA: CN037838A19 #113

BASE M/E: 49/ 49
R/C: 701. ✓ 1063.

DUAL MASS SPECTRUM
AC/15/90 12100100 + 1128
SAMPLE: SNL CC#337835 EP#M: 73800108 CASE#28104 ON#19
ENRICHED (5 158 2N) (22) METHYLENE CHLORIDE (75-09-2) ME#16



9999
SAMPLE

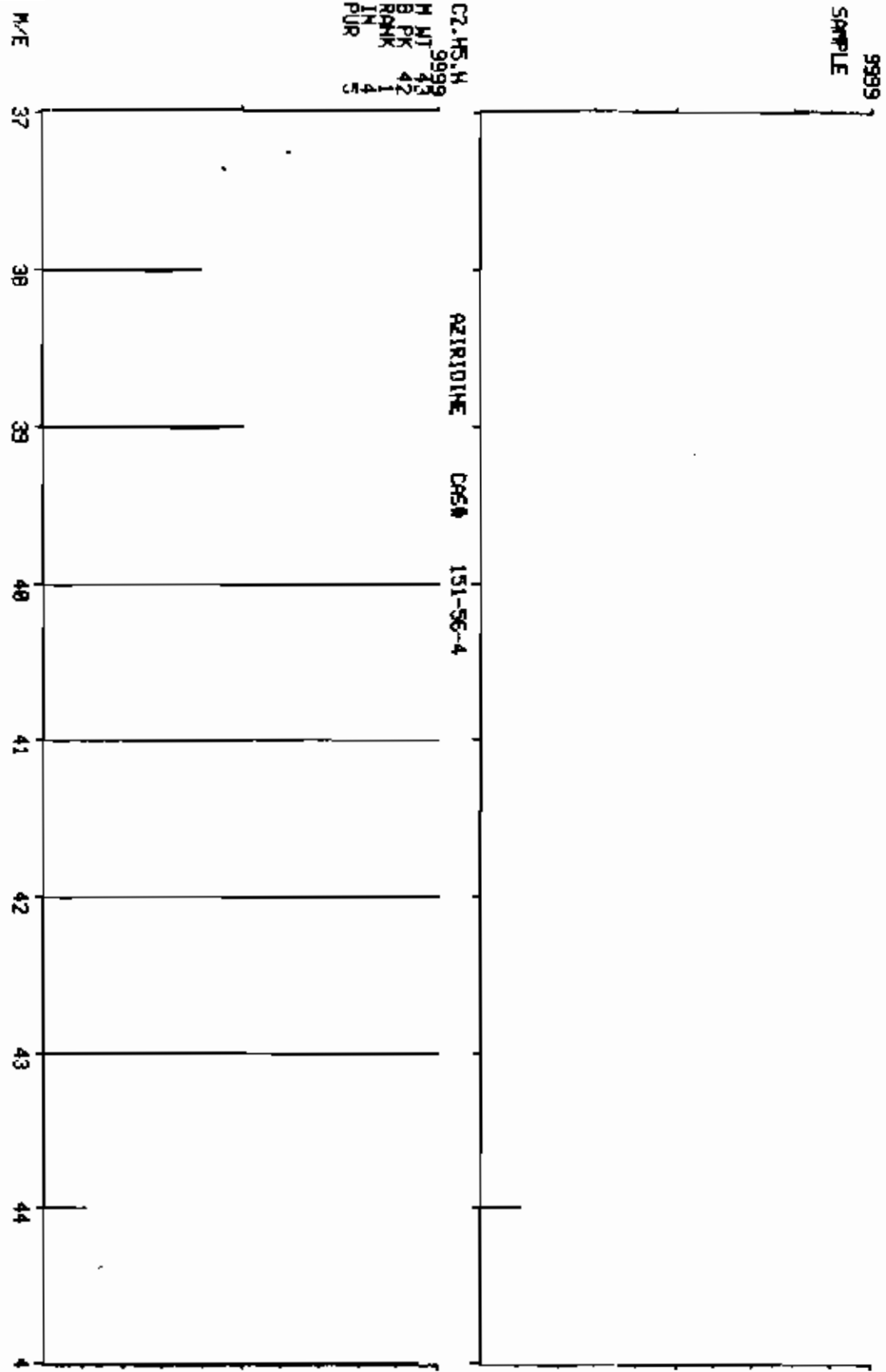
LIBRARY SEARCH
06/15/99 12:00:00 + 0:28
SAMPLE: SWL CCA337839 EPA#173900108 CASE#20194 DN#19
ENHANCED (S 198 2H 9T)

COMPUchem LABS

2 07/06 DATA: C0837835A19 # 34

BASE N/EI 44
R/C 3131.

C2.HS.M
9999
M NT 43
B PK 42
RANK 14
IN 4
PUR 5



RECEIPT DATE: 05/09/90 CASE#: 20124

VOA
GC/MS WORKSHEET COMPUCHEM#: 337835

J1 [] J3 [] D1 [] (:)
J2 [] J4 [] D2 [] (:)

GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code--- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

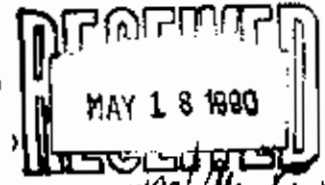
=====

SAMPLE ID#: 73800108

=====

GC/MS ANALYSIS

Amount Purged: [] 5 ml or [] 1 Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added _____ 5 ul
Surrogate Standard Volume Added _____ 5 ul
BFB Filename BF900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename CN037835A19 Disk ()



ANALYST(S): Injection WSE/Alan Gail

Work up WSE/Alan Gail

=====

GC/MS REVIEW

CONDITION
CODE

CIC

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 21

[] Reinject Neat

Quality Assurance Notice(s):

Notices Required 2

[] Dilute (:)



COMMENTS:

GC/MS Review WSE/Alan Gail Date 5/17/90 Auditor _____ Date _____

REPORT INTEGRATION

Total # of Injections: 1

Final Reportable Package(s): CN0-A19

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW:

Initials _____ Date _____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP					QUANT	REPORTED	DETECT.
* M/E F	COMPOUND NAME	SCAN	AREA	VALUE	AMOUNT	LIMIT	(UG/L)
234 128 I	BROMOCHLOROMETHANE (IS)	244	43100	50.0			
221 50	CHLOROMETHANE				BDL		10
231 62	VINYL CHLORIDE				BDL		10
220 94	BROMOMETHANE				BDL		10
209 64	CHLOROETHANE				BDL		10
216 96	1,1-DICHLOROETHENE				BDL		5
254 76	CARBON DISULFIDE				BDL		5
252 43	ACETONE (2-PROPANONE)				BDL		10
248 114 I	1,4-DIFLUOROBENZENE (IS)	373	175000	50.0			
222 84	METHYLENE CHLORIDE			1.7	20.0		5
226 96	TRANS-1,2-DICHLOROETHENE				BDL		5
214 63	1,1-DICHLOROETHANE				BDL		5
257 43	VINYL ACETATE				BDL		10
237 96	CIS-1,2-DICHLOROETHENE				BDL		5
253 72	2-BUTANONE				BDL		10
211 83	CHLOROFORM				BDL		5
227 97	1,1,1-TRICHLOROETHANE				BDL		5
206 117	CARBON TETRACHLORIDE				BDL		5
203 78	BENZENE				BDL		5
215 62	1,2-DICHLOROETHANE				BDL		5
270 117 I	DS-CHLOROBENZENE (IS)	747	122000	50.0			
229 130	TRICHLOROETHENE				BDL		5
217 63	1,2-DICHLOROPROPANE				BDL		5
212 83	BROMODICHLOROMETHANE				BDL		5
218 75	CIS-1,3-DICHLOROPROPENE				BDL		5
256 43	4-METHYL-2-PENTANONE				BDL		10
225 92	TOLUENE				BDL		5
250 75	TRANS-1,3-DICHLOROPROPENE				BDL		5
228 97	1,1,2-TRICHLOROETHANE				BDL		5
224 164	TETRACHLOROETHENE				BDL		5
255 43	2-HEXANONE				BDL		10
208 129	DIBROMOCHLOROMETHANE , 124-4				BDL		5
207 112	CHLOROBENZENE				BDL		5
219 106	ETHYLBENZENE				BDL		5
330 106	M, P-XYLENE				BDL		5
239 106	O-XYLENE				BDL		5
251 104	STYRENE				BDL		5
205 173	BROMOFORM				BDL		5
223 83	1,1,2,2-TETRACHLOROETHANE				BDL		5
258 65 S	DA-1,2-DICHLOROETHANE WE#57			42.6	85.2		
247 95 S	BROMOFLUOROBENZENE			16.8	94.2		
232 98 S	DB-TOLUENE WE#59 SB#2			48.3	97.2		
289 106	XYLENES (TOTAL)				BDL		5

CORRECTED/REVIEWED BY AKJTS
(GC/MS DATA REVIEWER)DATE 5.17.90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:		3979.	1364	340100.	289.4		2.

CORRECTED/REVIEWED BY

Eric J. G.
(GC/MS DATA REVIEWER)

DATE

5-17-90

QUALITY ASSURANCE NOTICE
CompuChem # 337835
Instrument Blank : 68960515019
Client ID # 7386008
Case 2014

The early-eluting peak on the RIC of the volatile fraction at scan # 34 is an instrument artifact believed to be a mixture of water and various atmospheric gases. This peak is usually present at less than 10% of the nearest-eluting internal standard peak height, although it may exceed this height under certain instrument conditions.

Periodically, a number of maintenance procedures are performed in an effort to reduce the intensity of this artifact. These procedures may include:

- trap replacement
- reconditioning and/or replacing column
- replacing six-port valve in Tekmar
- cleaning of the separator
- cleaning or replacing source
- replacing lines in Tekmar

In many cases, even after maintenance, the artifact peak remains at a height greater than 10% of the nearest internal standard. Since the analytical quality of these data have not been compromised, we are reporting this analysis with reference to this qualifier. The artifact is not included as part of the Library Search requirements for the associated samples.

Robert J. Whitehead
Manager, Quality Assurance

DANIGU
878917

QUALITY ASSURANCE NOTICE

CompuChem # 327835
 Blank ID # CU300515C19
 Case 20127

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8242" and "Semivolatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/L</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/kg; acetone may not exceed 50 ug/kg. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Littlehead
 Manager, Quality Assurance

C-1295
 6-1026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800109

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337839
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR037839A19
 Level: (low/med) LOW Date Received: 05/09/90
 ‡ Moisture: not dec. _____ Date Analyzed: 05/18/90
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	13	B
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenee	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800109

Lab Name: COMPUCHEM LABS Contract: 255501
Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
Matrix: (soil/water) WATER Lab Sample ID: 337839
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR037839A19
Level: (low/med) LOW Date Received: 05/09/90
& Moisture: not dec. _____ Date Analyzed: 05/18/90
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

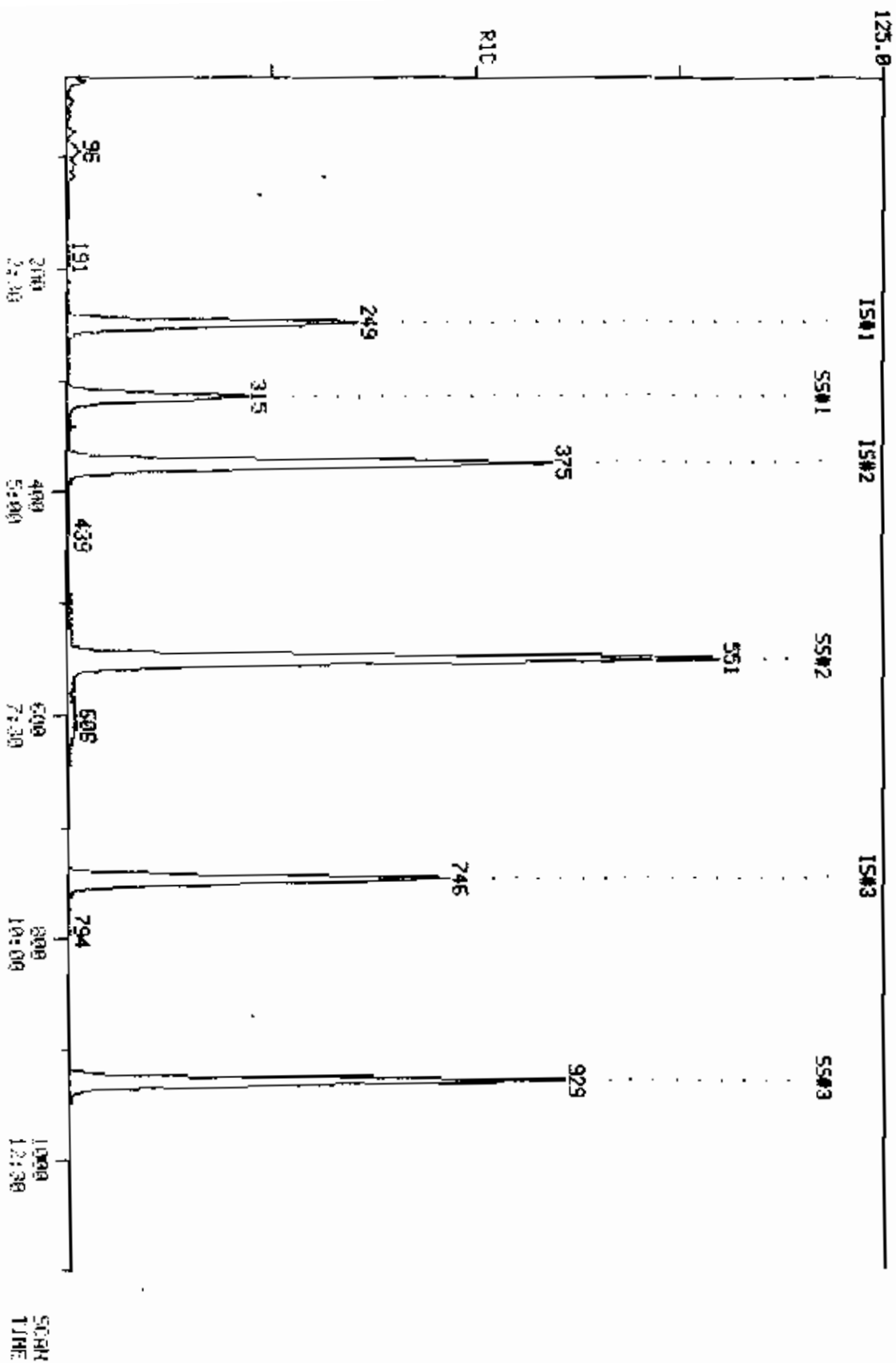
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

FORM I VOA-TIC

1/87 Rev.

RIC
05/18/99 20:24:00
SAMPLE: SML C01 337839 10# 73800109 CS# 20124 GN #19
COND5.1

COMPUchem LABS
COMPUchem Data# 09027029619 SCAN# 31 TO 1100



NYDEC RA090 0507 ORGANIC

1535

QUANTITATION REPORT FILE: CRO37839A19
 DATA: CRO37839A19.TL
 05/18/90 20:24:00
 SAMPLE: 5ML CC# 337839 ID# 73000109 CS# 20124 DN #19
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1009

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <75-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#32
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	*233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HOHT)	AMOUNT	XTOT
1	128	249	3:07	1	1.000	A 88	90409.	50.000 UG/L	16.15
2	50							NOT FOUND	

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	97	1:13	-1	0.390	A BV	9537.	13.360 UG/L	4.31
9	114	375	4:41	9	1.000	A BB	462679.	50.000 UG/L	16.15
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	746	9:19	21	1.000	A BB	286737.	50.000 UG/L	16.15
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	315	3:56	1	1.265	A BB	151401.	45.810 UG/L	14.79
41	95	929	11:37	21	1.245	A BB	204876.	49.816 UG/L	16.09
42	98	550	6:52	21	0.737	A BB	504599.	50.724 UG/L	16.38

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:05	1.01	10.000	0.10	50.00	50.00	1.030	1.000	1.00
2	0:31		10.000			50.00		0.485	
3	0:34		10.000			50.00		0.624	
4	0:38		10.000			50.00		1.306	
5	0:42		10.000			50.00		0.899	
6	1:04		5.000			50.00		1.407	
7	1:08		5.000			50.00		3.508	
8	1:12	1.01	10.000	0.04	13.36	50.00	0.105	0.395	0.27
9	4:38	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:28		5.000			50.00		1.154	
11	1:41		5.000			50.00		1.195	
12	2:07		5.000			50.00		1.738	
13	2:19		10.000			50.00		0.305	
14	2:49		5.000			50.00		1.171	

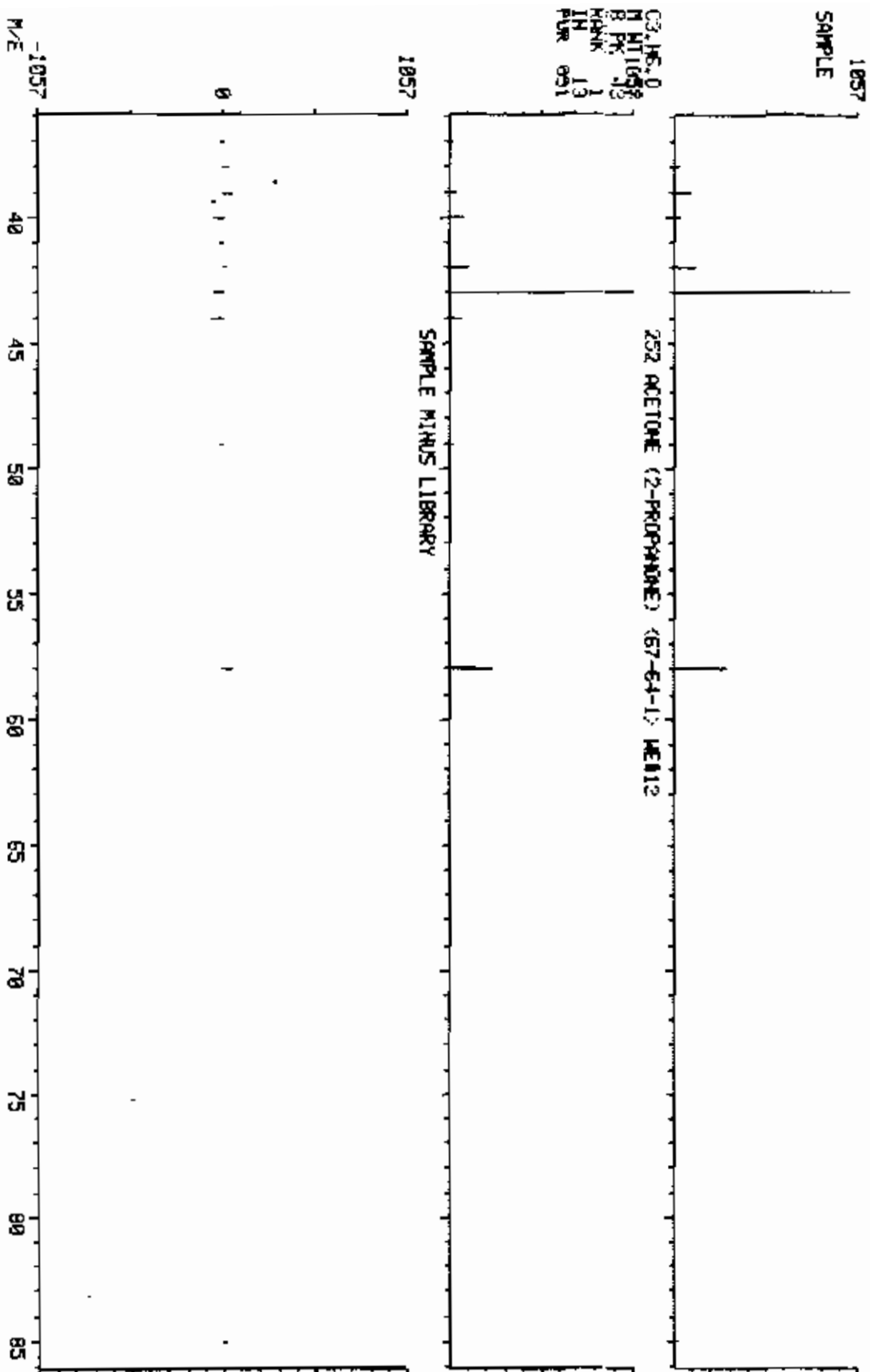
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	2:58		10.000			50.00		0.061	
16	3:20		5.000			50.00		2.644	
17	3:21		5.000			50.00		0.589	
18	3:32		5.000			50.00		0.619	
19	3:52		5.000			50.00		0.575	
20	4:01		5.000			50.00		1.875	
21	9:15	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:52		5.000			50.00		0.461	
23	5:12		5.000			50.00		0.273	
24	5:48		5.000			50.00		0.701	
25	6:31		5.000			50.00		0.707	
26	6:58		15.000			50.00		0.533	
27	6:55		5.000			50.00		1.061	
28	7:34		5.000			50.00		0.325	
29	7:48		5.000			50.00		0.218	
30	7:43		5.000			50.00		0.615	
31	8:27		15.000			50.00		0.128	
32	8:22		5.000			50.00		0.422	
33	9:17		5.000			50.00		0.885	
34	9:37		5.000			50.00		0.408	
35	9:52		5.000			50.00		0.578	
36	10:32		5.000			50.00		0.578	
37	10:37		5.000			50.00		1.005	
38	10:52		5.000			50.00		0.250	
39	12:10		5.000			50.00		0.347	
40	3:54	1.01	5.000	0.25	45.81	50.00	1.675	1.628	0.92
41	11:31	1.01	5.000	0.25	49.82	50.00	0.715	0.717	1.00
42	6:49	1.01	5.000	0.15	50.72	50.00	1.760	1.735	1.01

COMPUCHEM LABS

DATA# CR037839A19 # 97

BASE M/E: 43
R/C: 1002.

LIBRARY SEARCH
05/18/90 20:24:00 + 1.12
SAMPLE: 9ML C08 337839 ID# 73888109 CS# 20124 ON #19
ENHANCED (S 158 2H 0T)

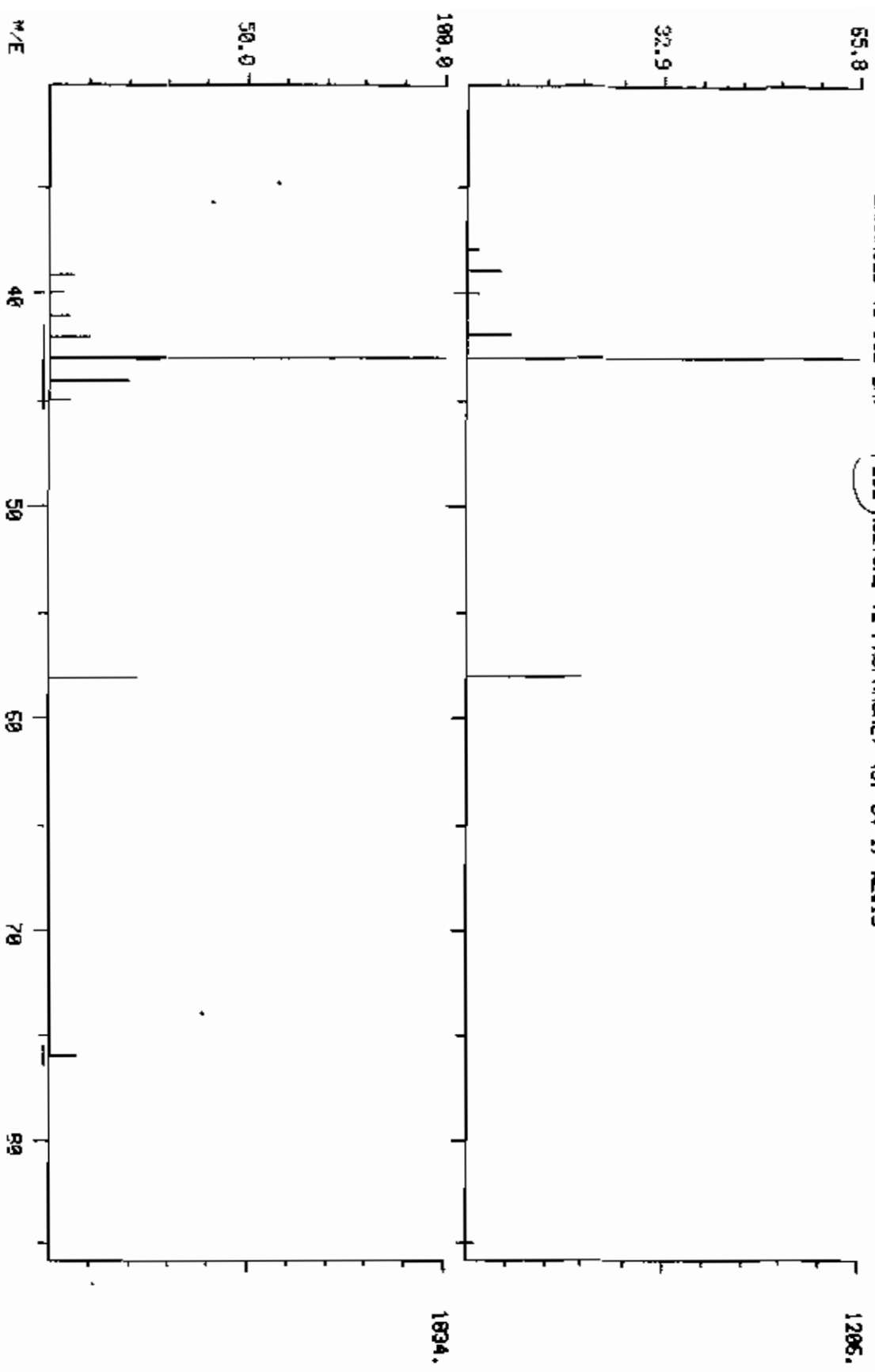


COMPUCHEM LABS

DATA: CR037839A19 #97

BASE M/E: 43/ 43/
RT: 1.13 1.13

DUAL MASS SPECTRUM
05/18/98 20:24:00 + 1.13
SAMPLE: 5ML CO# 337839 10#-73880189 CS# 20124 DN #19
ENHANCED (5 158 2N) (252 ACETONE (2-PROPANONE) (57-64-1) #113



Lab Instructions:

Receipt Date:

Case#: 20124

SAS/

CompuChem#: 337839R

GC/MS; VOA; WATER; EPA SOW 2/88

8240

Sample Prep Code---000

Instrument Code---412 284

Compound List-----493 458

Surrogate Std-----394

Internal Std-----036

SDG/

EPA ID# 73800109

GC/MS Analysis WELL1

Amount Purged: [] 5.0 mL or [] Dilution _____ uL / 5.0 mL

Internal Standard Volume Added 5 uL

Surrogate Standard Volume Added 5 uL

BFB Filename: BH900518A19

Blank Filename: CB900518A19

Standard Filename: CU900518A19

Sample Filename: CRO37839A19

Analyst(s) Injection: 1009MK Work-up 1009MK

GC/MS Review

Condition Codes

JA

Entry Codes: OK, EA, ES, SM, JS, SL, SH, JA, DA

Non-entry Codes: IM, IL, SW, CT, CS, VC, VO, UP, PC, NR, IF, LA, DI, OT, SF, SI, CO, RN, DW

Extraneous Peak Search Results:

Disposition

Number of Peaks Found: 0 () Complete

[] Rainject Meas

Quality Assurance Notice(s):

[] Dilute

Number of Notices Required: 1 _____ uL / 5 mL

Comments:

GC/MS Review by DA Date 5/21/90 Auditor _____ Date ___/___/___

Report Integration Total # of Injections 2

Final Reportable Package(s): CR - A19 /

QA Comments:

Initiale _____ Date ___/___/___

Final Review Initialia _____ Date ___/___/___

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	249	90400	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			13.4	13.8	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	375	463000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (IS)	746	287000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			45.8	92. %	
247	95 S	BROMOFLUORDBENZENE			49.8	100. %	
233	98 S	D8-TOLUENE WE#59 BS#2			50.7	101. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY C. J. Ste...
(OC/MS DATA REVIEWER)

DATE 5-19-82

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
		3979.	1370	840400.		309.7	13.

CORRECTED/REVIEWED BY Ch. J. G.
(GC/MS DATA REVIEWER)DATE 5-19-96

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	45.8	50.0	92.	76-114	X	
41	247	BROMOFLUOROBENZENE	49.8	50.0	100.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	50.7	50.0	101.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL

5000. (UL)

5.000 ML

5.000 (ML)

1.00 =

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY C. J. St. John
(GC/MS DATA REVIEWER)

DATE 5-19-90

QUALITY ASSURANCE NOTICE

CompuChem # 337837
 Blank ID # C13900818AIR
 Case 2034

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 824E" and "Semivolatile Analysis by GC/MS--Method 827B." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Acetone</u>	<u>12</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated "method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/lg; acetone may not exceed 50 ug/kg. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the Blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Litchhead
 Manager, Quality Assurance

CAN295
 871028

73800110

Lab Name: COMFUCHEM LABS Contract: 255501

Lab Code: COMFU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 137838

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR037838B19

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ Date Analyzed: 05/18/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	15	B
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800110

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337838
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CRQ37838B19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/18/90
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 6 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.38	49	J
2. 6971-63-7	2(3H)-FURANONE, DIHYDRO-4,5-D	3.10	4.0	J
3. 29424-94-0	OXETANE, 2,4-DIMETHYL-, TRANS-	3.42	13	J
4.	2-(ETHENYLOXY)PROPANE+UNKNOW	4.20	190	J
5.	2,5-HEXANEDIOL+UNKNOWN	5.00	20	J
6. 17257-81-7	2-HEXANONE, 3,4-EPOXY-	5.30	11	J

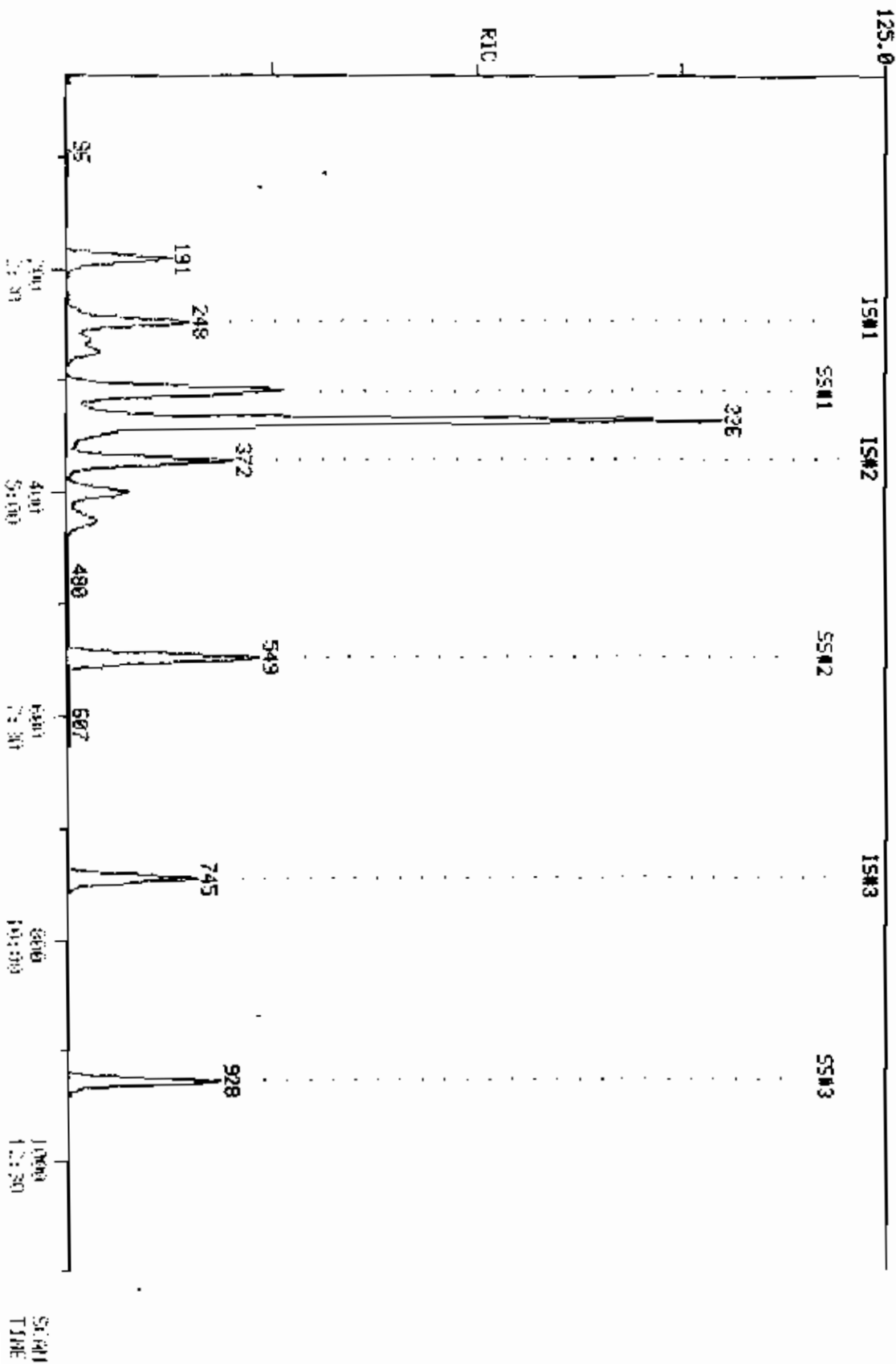
FORM I VOA-TIC

1/87 Rev.

RIC
05/18/98 20:50:08
SAMPLE: SML CC# 337838 ID# 73000110 CS# 201240N #19
COND.S:

COMPUCHEM LABS
COMPUCHEM DATA: C0037639B19 SCANS 29 TO 1100

73000110



QUANTITATION REPORT FILE: CRO37838819
 DATA: CRO37838819.TI
 05/18/90 20:50:00
 SAMPLE: SML CC# 337838 ID# 73800110 CS# 201240N #19
 COND# :
 SUBMITTED BY: 19 ANALYST: 1009

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
2	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUDROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLORODENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 H,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57 SB#1
41	#247 BROMOFLUOROBENZENE <460-00-4> WE#58 BS#3
42	#233 D8-TOLUENE WE#59 95#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
1	128	247	3:05	1	1.000	A B8	100697.	50.000 UG/L	16.82
2	50	.NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (H2HT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	96	1:12	1	0.389	A BV	11999.	15.092 UG/L	5.08
9	114	372	4:39	9	1.000	A BB	520263.	50.000 UG/L	16.82
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	745	9:19	21	1.000	A BB	319105.	50.000 UG/L	16.82
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	311	3:53	1	1.259	A BB	159388.	43.300 UG/L	14.56
41	95	928	11:36	21	1.246	A BB	198230.	43.306 UG/L	14.57
42	90	548	6:51	21	0.736	A BB	505271.	45.639 UG/L	15.35

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:05	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:31		10.000			50.00		0.485	
3	0:34		10.000			50.00		0.624	
4	0:38		10.000			50.00		1.306	
5	0:42		10.000			50.00		0.899	
6	1:04		5.000			50.00		1.407	
7	1:08		5.000			50.00		3.508	
8	1:12	1.00	10.000	0.04	15.09	50.00	0.119	0.395	0.30
9	4:38	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:28		5.000			50.00		1.154	
11	1:41		5.000			50.00		1.195	
12	2:07		5.000			50.00		1.738	
13	2:19		10.000			50.00		0.305	
14	2:49		5.000			50.00		1.171	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
13	2:58		10.000			50.00		0.061	
16	3:20		5.000			50.00		2.644	
17	3:21		5.000			50.00		0.589	
18	3:32		5.000			50.00		0.619	
19	3:52		5.000			50.00		0.575	
20	4:01		5.000			50.00		1.875	
21	9:15	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:52		5.000			50.00		0.461	
23	5:12		5.000			50.00		0.273	
24	5:48		5.000			50.00		0.701	
25	6:31		5.000			50.00		0.707	
26	6:58		15.000			50.00		0.533	
27	6:55		5.000			50.00		1.061	
28	7:34		5.000			50.00		0.325	
29	7:48		5.000			50.00		0.218	
30	7:43		5.000			50.00		0.615	
31	8:27		15.000			50.00		0.128	
32	8:22		5.000			50.00		0.422	
33	9:17		5.000			50.00		0.885	
34	9:37		5.000			50.00		0.408	
35	9:52		5.000			50.00		0.578	
36	10:32		5.000			50.00		0.578	
37	10:37		5.000			50.00		1.005	
38	10:52		5.000			50.00		0.250	
39	12:10		5.000			50.00		0.347	
40	3:54	1.00	5.000	0.25	43.30	50.00	1.583	1.828	0.87
41	11:31	1.01	5.000	0.25	43.31	50.00	0.621	0.717	0.87
42	6:49	1.01	5.000	0.15	45.64	50.00	1.583	1.735	0.91

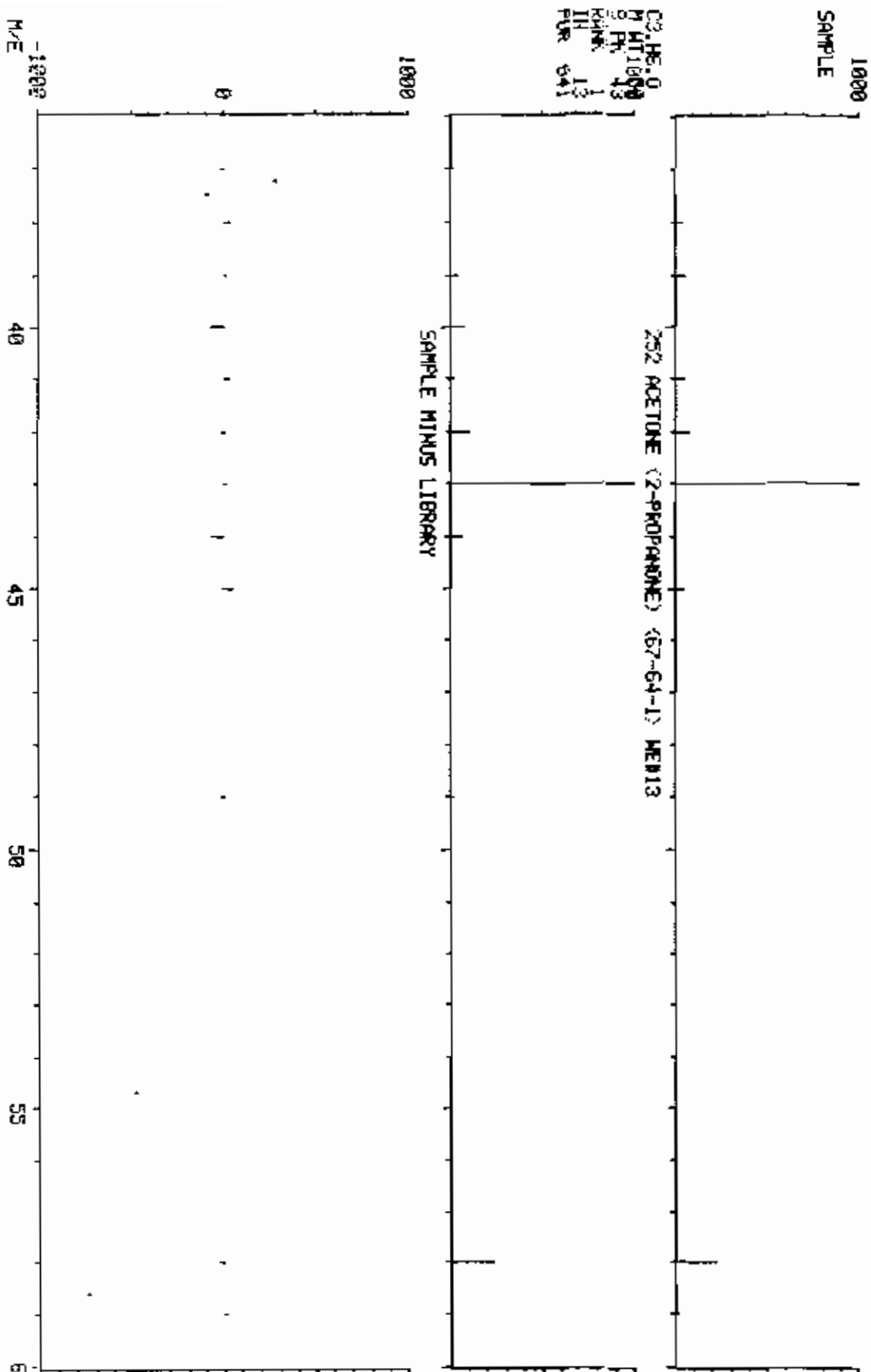
COMPUCHEM LABS

DATA: CR837838B19 # 96

BASE M/E: 43
R10: 2358.

LIBRARY SEARCH
05/18/90 20:59:00 + 1:12
SAMPLE: SML C0# 337838 I0# 73800110 C5# 201240# 19
ENHANCED (S 158 2# 87)

C3.H5.0
M HT1600
O F# 43
KMIN 13
IH 13
PUR 641

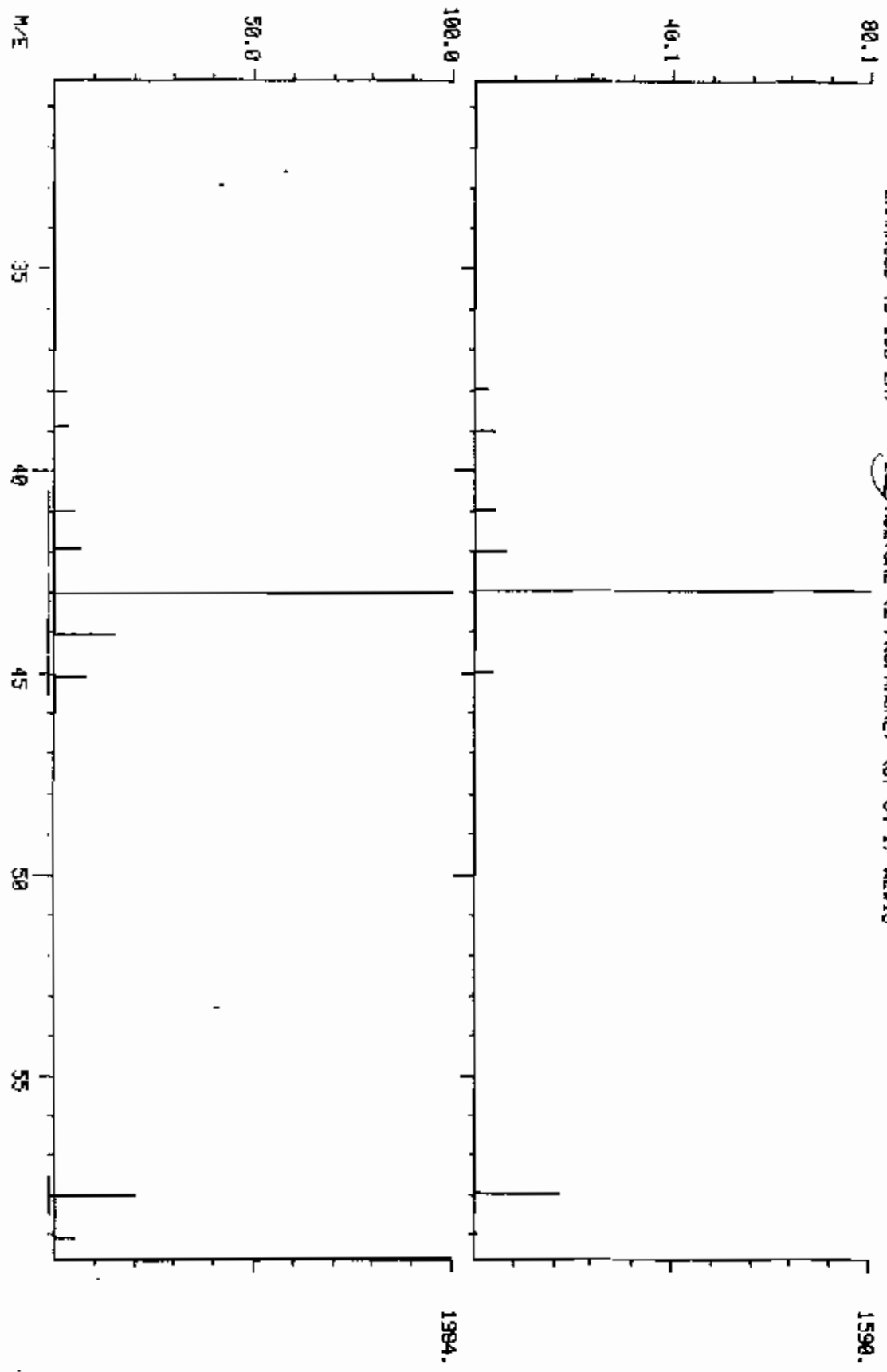


COMPUCHEM LABS

DATA: CR037838919 #96

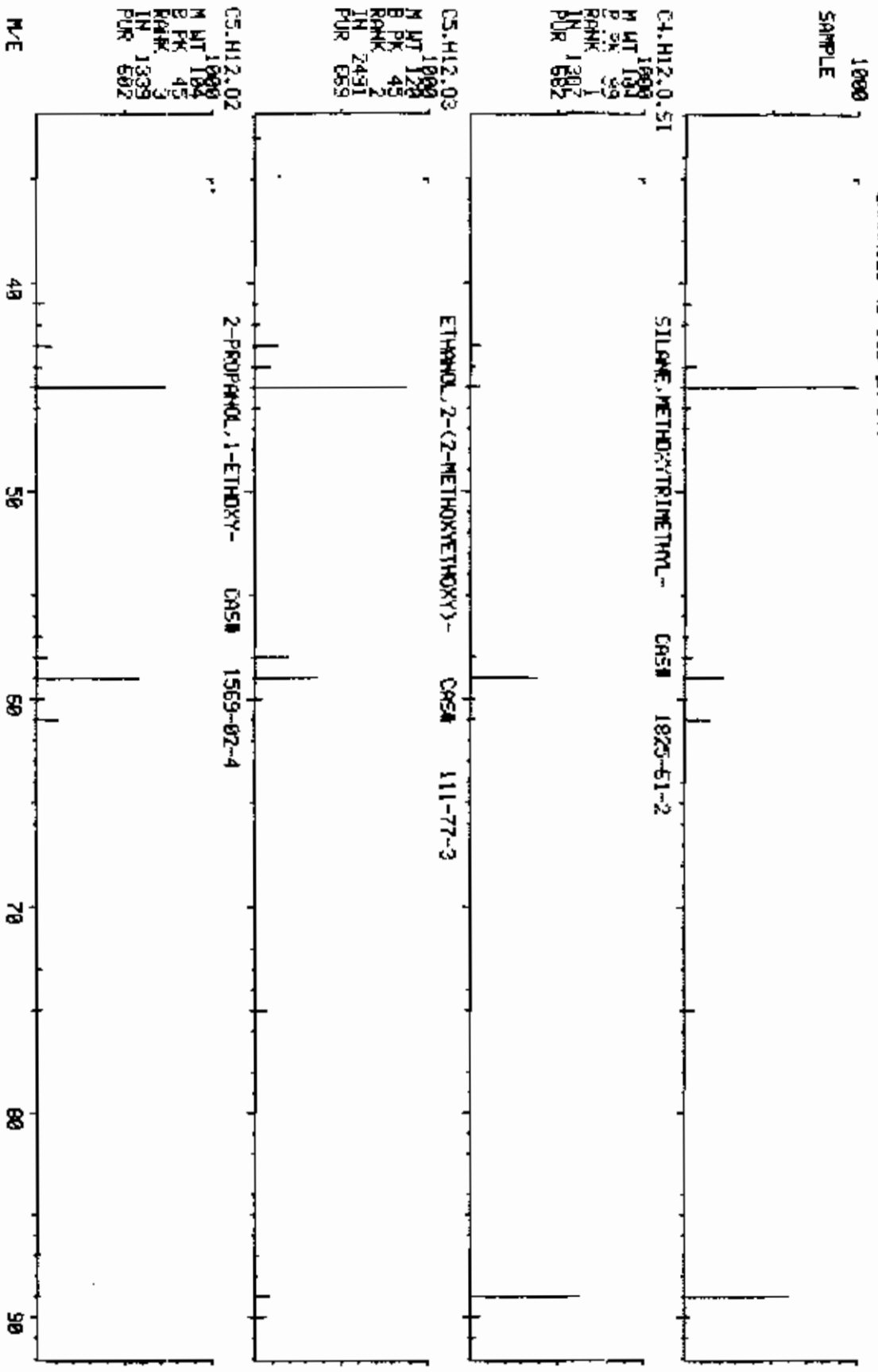
BASE M/E: 43/ 43
R/C: 2853. / 3295.

DUAL MASS SPECTRUM
08/18/98 20:50:00 + 11:12
SAMPLE: 5ML CCM 337838 ID# 7388110 CS# 281240H #19
ENRICHED (5.158 2H) 252 ACETONE (2-PROPANOINE) <57-64-1> W#13



LIBRARY SEARCH
 05/18/90 20:58:00 + 21:23
 SAMPLE: 5ML C08 337838 10# 73800110 CS# 201240H #19
 ENHANCED (5 15S 2M 8T)

COMPUCHEM LABS
 DATA: CR037838B19 # 191
 BASE N/E: 45
 P10, 76927.



LIBRARY SEARCH
 05/18/90 20:50:00 + 3:10
 SAMPLE: SML CCM 337838 ID# 73800110 CS# 201240N #19
 ENHANCED (S 150 2N 8T)

COMPUchem LABS

DATA: CR037838B19 # 264

BPSE M/E: 42
 RIC1 4415

1268
 SAMPLE

C6.H10.O2
 1268
 1 PK 42
 3 PK 41
 1 IN 1977
 5UR 1934

2-(3H)-FURFURONE, DIHYDRO-4,5-DIMETHYL - CAS# 6971-63-7

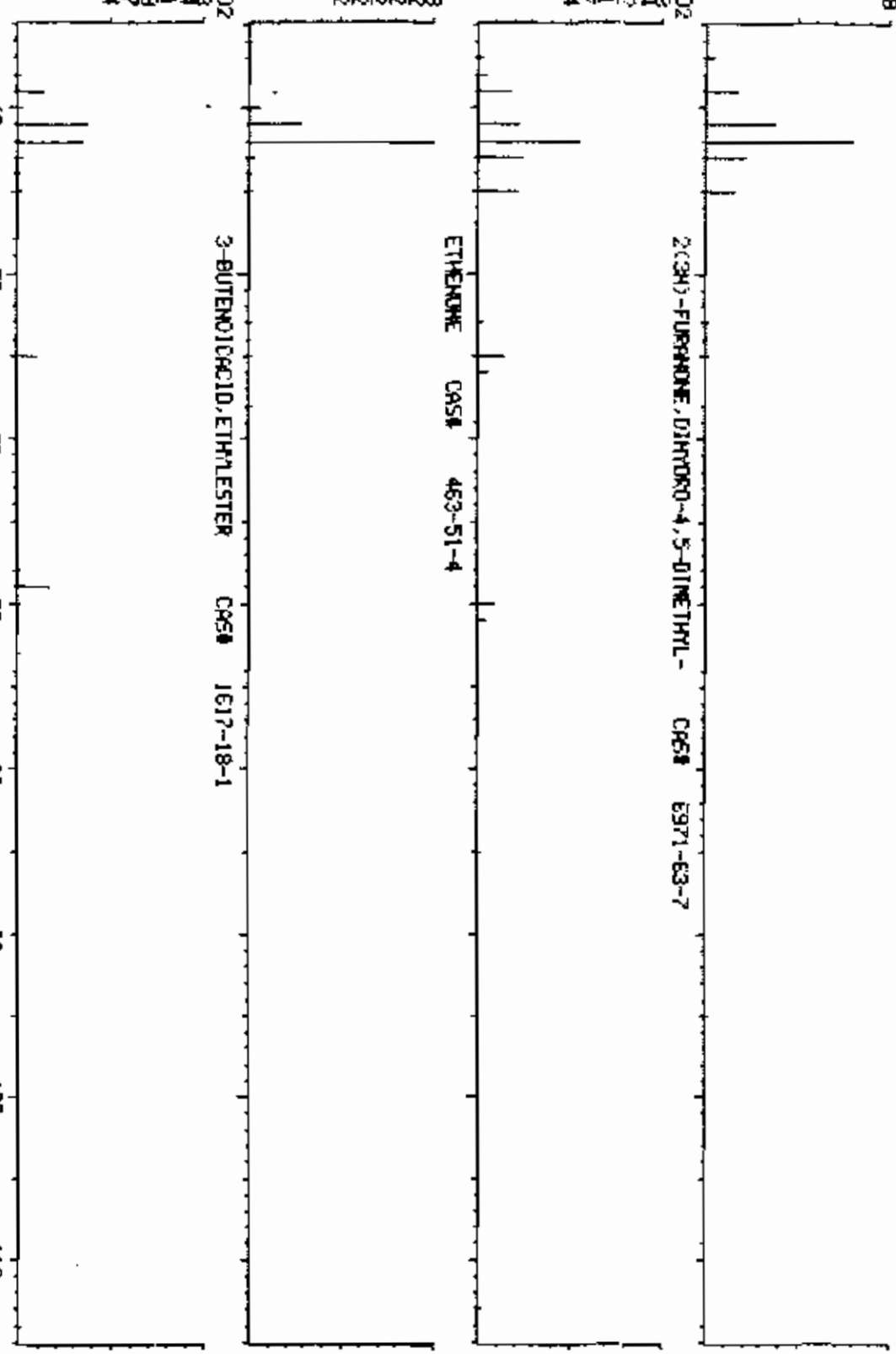
C2.H2.O
 1268
 1 PK 42
 1 IN 1977
 5UR 1934

ETHANONE CAS# 463-51-4

C6.H10.O2
 1268
 1 PK 41
 1 IN 1977
 5UR 1934

3-BUTENOICACID, ETHYLESTER CAS# 1617-18-1

M/E 40 50 60 70 80 90 100 110

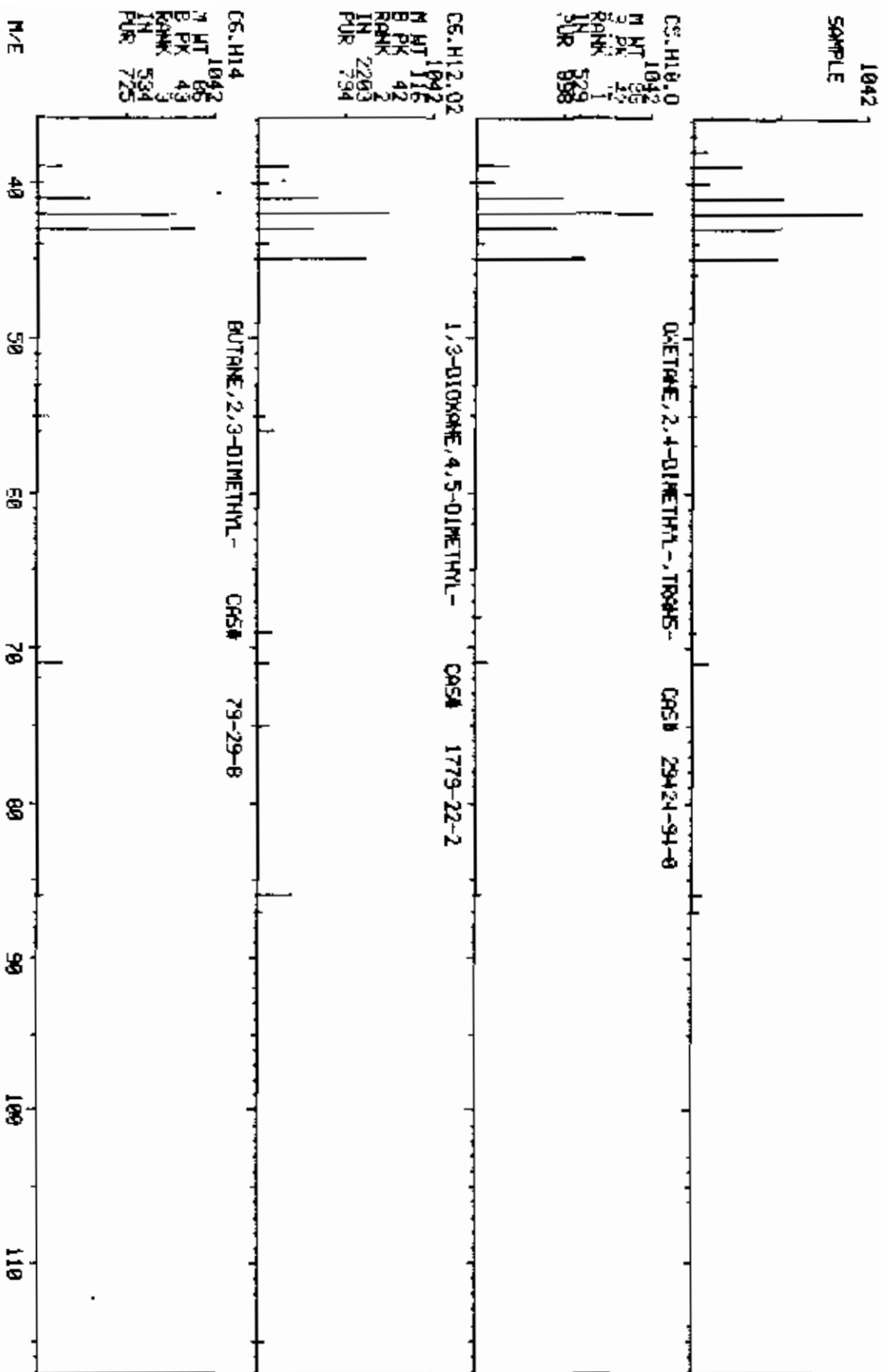


LIBRARY SEARCH
 05/18/98 20:59:00 + 3:25
 SAMPLE: 5ML CCM 307838 ID# 73880110 CS# 281240N #19
 ENRICHED (5 158 24 87)

COMPUCHEN LABS

DATA: CR037838B19 # 274

BASE M/E: 42
 RIC# 19051.



LIBRARY SEARCH
05/19/90 20:59:00 + 4.12
SAMPLE: 5ML CCA 337838 ID# 73880110 C5# 281240N #19
ENHANCED (S 158 2H 8T)

1537
SAMPLE

C4.H8.O2
M HT 1537
3 BK 386
RANK 41
IN 591
PUR 721

1,3-DIBUTYLENE, 4-METHYL- CAS# 1672-47-5

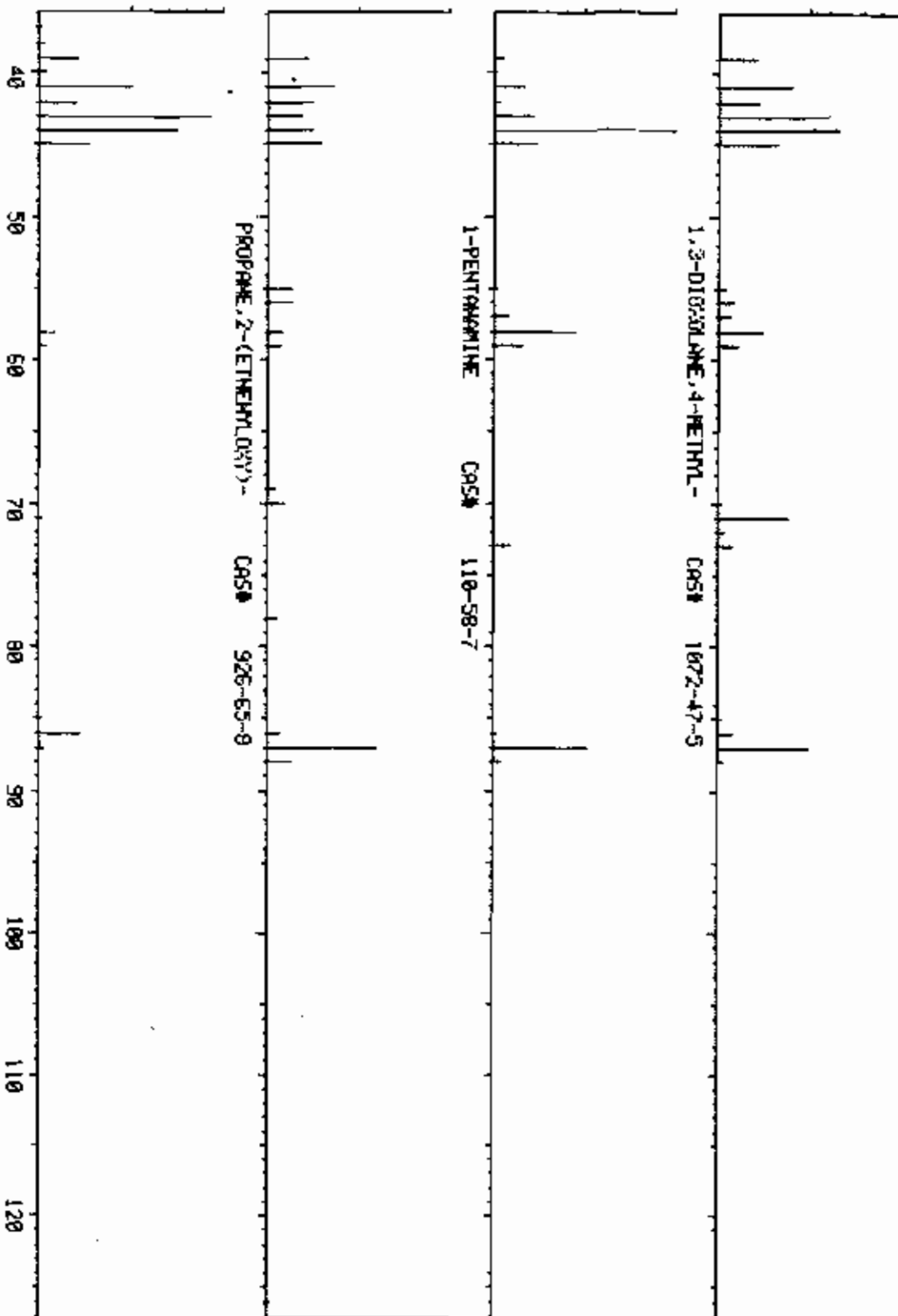
C5.H13.H
M HT 1537
8 PK 87
RANK 554
IH 554
PUR 689

1-PENTANAMINE CAS# 110-58-7

C5.H16.O
M HT 1537
8 PK 43
RANK 514
IH 514
PUR 667

PROPANE, 2-(ETHENYLORNY)- CAS# 926-65-9

M/E 40 50 60 70 80 90 100 110 120



LIBRARY SEARCH
 05/19/94 20:50:00 + 5:00
 SAMPLE: 5ML CCM 337939 ID# 73800110 CS# 201240N #19
 ENHANCED (S 158 Z# 07)

COMPUchem LABS

DATA: CR037938919 # 400

BASE M/E: 45
 RIC: 36991.

1000
 SAMPLE

06.H14.02
 M WT 1000
 B PK 45
 RANK 2378
 IN 1
 SUB 686

2,5-HEXANEDIOL CAS# 2926-44-6

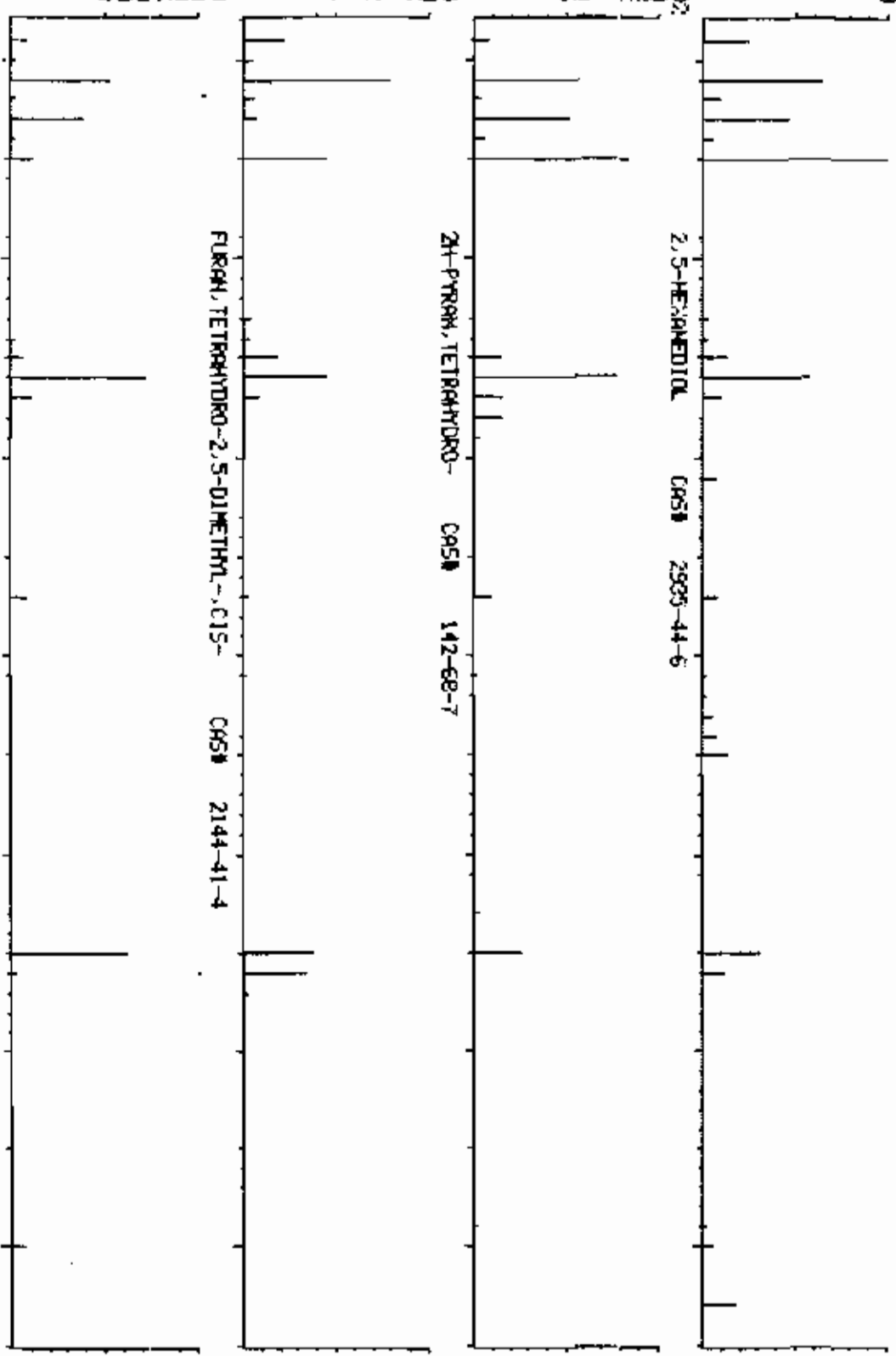
05.H10.0
 M WT 1000
 B PK 41
 RANK 504
 IN 2
 SUB 684

2H-PYRAN, TETRAHYDRO- CAS# 142-68-7

06.H12.0
 M WT 1000
 B PK 56
 RANK 1100
 IN 3
 SUB 673

FURAN, TETRAHYDRO-2,5-DIMETHYL-, CIS- CAS# 2144-41-4

M/E 40 50 60 70 80 90 100



LIBRARY SEARCH
 05-10-90 20150100 + 5x10
 SAMPLE: SML C0# 337838 ID# 73800110 CS# 201240N #19
 ENHANCED (S 158 2H 8T)

COMPUCHEN LABS

DATA# CR037838B19 # 424

BASE M/E: 43
 RIC# 11551.

1310
 SAMPLE

06.H18.02
 M WT 1319
 B PK 43
 RANK 1
 IN 1982
 SUR 752

2-HEXANONE,3,4-EPOXY- CAS# 17257-01-7

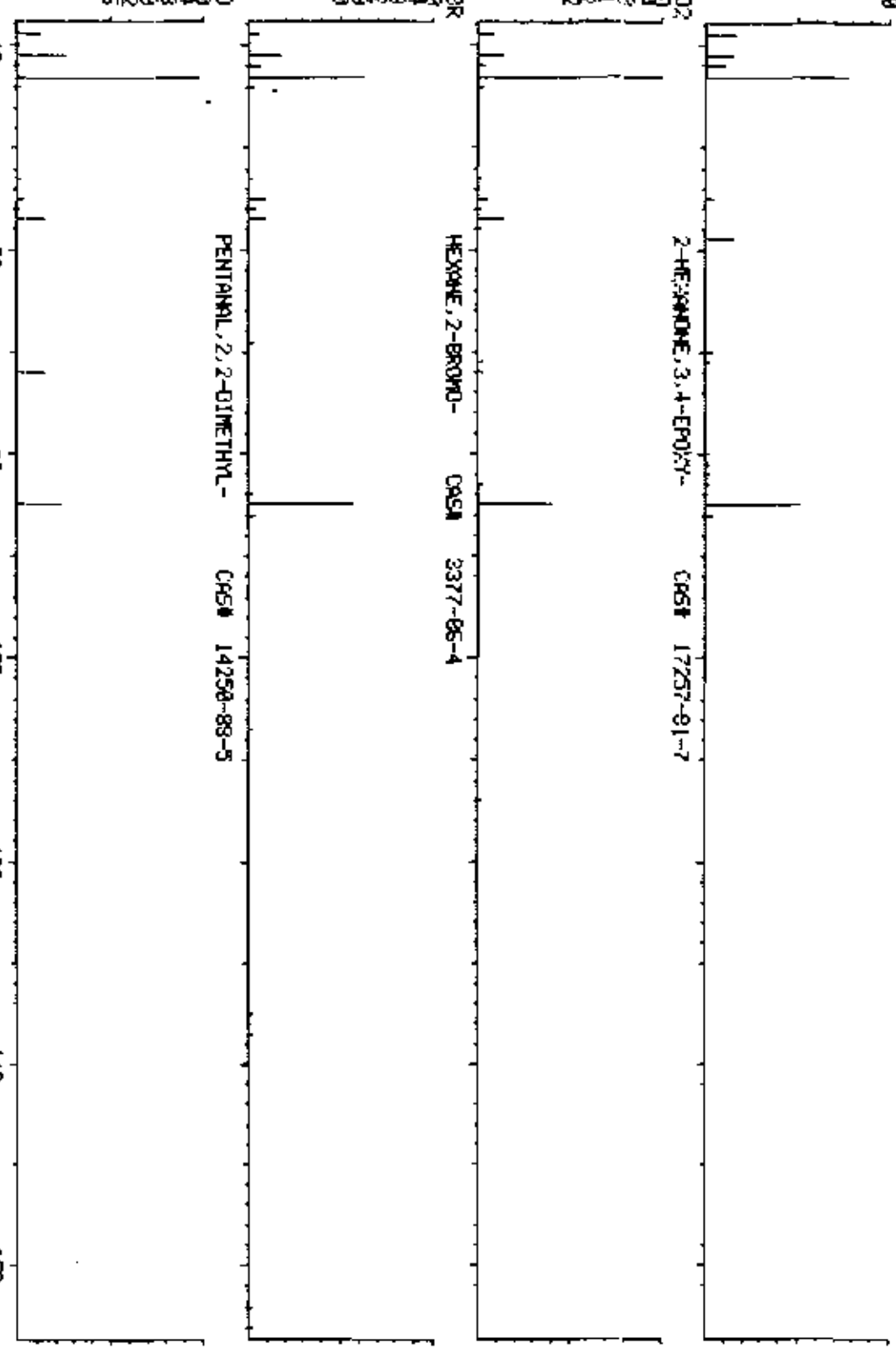
06.H13.BR
 M WT 1318
 B PK 43
 RANK 1
 IN 8139
 PUR 720

HEXANE,2-BROMO- CAS# 3377-85-4

07.H14.0
 M WT 1318
 B PK 43
 RANK 1
 IN 2042
 PUR 706

PENTANAL,2,2-DIMETHYL- CAS# 14250-88-5

M/E 40 60 80 100 120 140 160



Lab Instructions:

Receipt Date: Case#: 20124 SAS/
CompuChem#: 337838R

GC/MS: VOA: WATER; EPA-SOW-2/88
3rd Ed. 8240

Sample Prep Code---000
Instrument Code---412-289
Compound List-----493457
Surrogate Std-----394
Internal Std-----036

SDG# EPA ID# 73800110

GC/MS Analysis WELL1

Amount Purged: [] 5.0 mL or [] Dilution _____ uL / 5.0 mL

Internal Standard Volume Added 5 uL
Surrogate Standard Volume Added 5 uL
BFB Filename: RH900518A19
Blank Filename: CR900518A19
Standard Filename: CR900518A19
Sample Filename: CR037838A19

Analyst(s) Injection: 1009MR Work-up 1009MR

GC/MS Review

Condition Codes

JA
EK

Entry Codes: OK, EA, ES, SM, JS, SL, SH, JA, DA

Non-Entry Codes: IM, IL, SW, CT, CS, VC, VO, UP, PC, NR, IF, LA, DI, OT, SF, SI, CO, RN, DN

Extraneous Peak Search Results:

Number of Peaks Found: 6

Quality Assurance Notice(s):

Number of Notices Required: 0

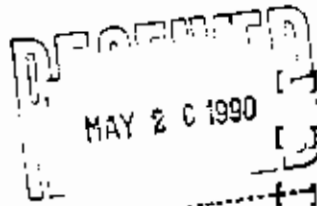
Comments:

GC/MS Review OK Date 5/19/90 Auditor _____ Date ___/___/___

Report Integration Total # of Injections 2
Final Reportable Package(s): CR0-419

QA Comments:

Final Review Initials _____ Date ___/___/___
Initials _____ Date ___/___/___



Disposition
 Complete
 Reinject Neat
 Dilute

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

PKT	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
204	128 I	BROMOCHLOROMETHANE (IS)	247	101000	50.0		
221	50	CHLOROMETHANE				BDL	10
201	62	VINYL CHLORIDE				BDL	10
221	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
231	43	ACETONE (2-PROPANONE)			15.1	15.1 ²	10
202	114 I	1,4-DIFLUOROBENZENE (IS)	372	520000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
228	96	TRANS-1,2-DICHLOROETHENE				BDL	5
212	63	1,1-DICHLOROETHANE				BDL	5
227	43	VINYL ACETATE				BDL	10
211	76	CIS-1,2-DICHLOROETHENE				BDL	5
211	77	2-BUTANONE				BDL	10
211	03	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	745	319000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M,P-XYLENE				BDL	5
228	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	170	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			43.3	87. %	
247	95 S	BROMOFLUOROBENZENE			43.3	87. %	
233	98 S	D8-TOLUENE WE#59 SS#2			43.6	91. %	
229	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

J. A. S.
(GC/MS DATA REVIEWER)

DATE

5-19-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMF				QUANT	REPORTED	DETECT.		
#	M/E	F	COMPOUND NAME	SCAN	AREA	REPORT	AMOUNT	LIMIT
						VALUE	(UG/L)	(UG/L)
ERR	96		1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:								
			3979.	1364	940000.	297.3		15.

CORRECTED/REVIEWED BY *CJG*
(GC/MS DATA REVIEWER)DATE 5/2/90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	43.3	50.0	87.	76-114	X	
41	247	BROMOFLUOROBENZENE	43.3	50.0	87.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	45.6	50.0	91.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *Ox. Smith*
 (GC/MS DATA REVIEWER)

DATE 5-19-90

QUALITY ASSURANCE NOTICE

CompuChem # 337838
 Blank ID # C-10761578/105
 Case 20124

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8248" and "Semi-volatile Analysis by GC/MS--Method 8278." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analysed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Acetone</u>	<u>17</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated "Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/lgr acetone may not exceed 80 ug/lgr. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Litchhead
 Manager, Quality Assurance

CA4295
 8-1628

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800111

Lab Name: COMFUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337836

Sample wt/Vol: 5.0 (g/mL) ML Lab File ID: CN037836A19

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	9	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	8	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

71800111

Lab Name: COMPUCHEM LABS Contract: 255501
Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
Matrix: (eoil/water) WATER Lab Sample ID: 337836
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037836A19
Level: (low/med) LOW Date Received: 05/09/90
% Moisture: not dec. _____ Date Analyzed: 05/15/90
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

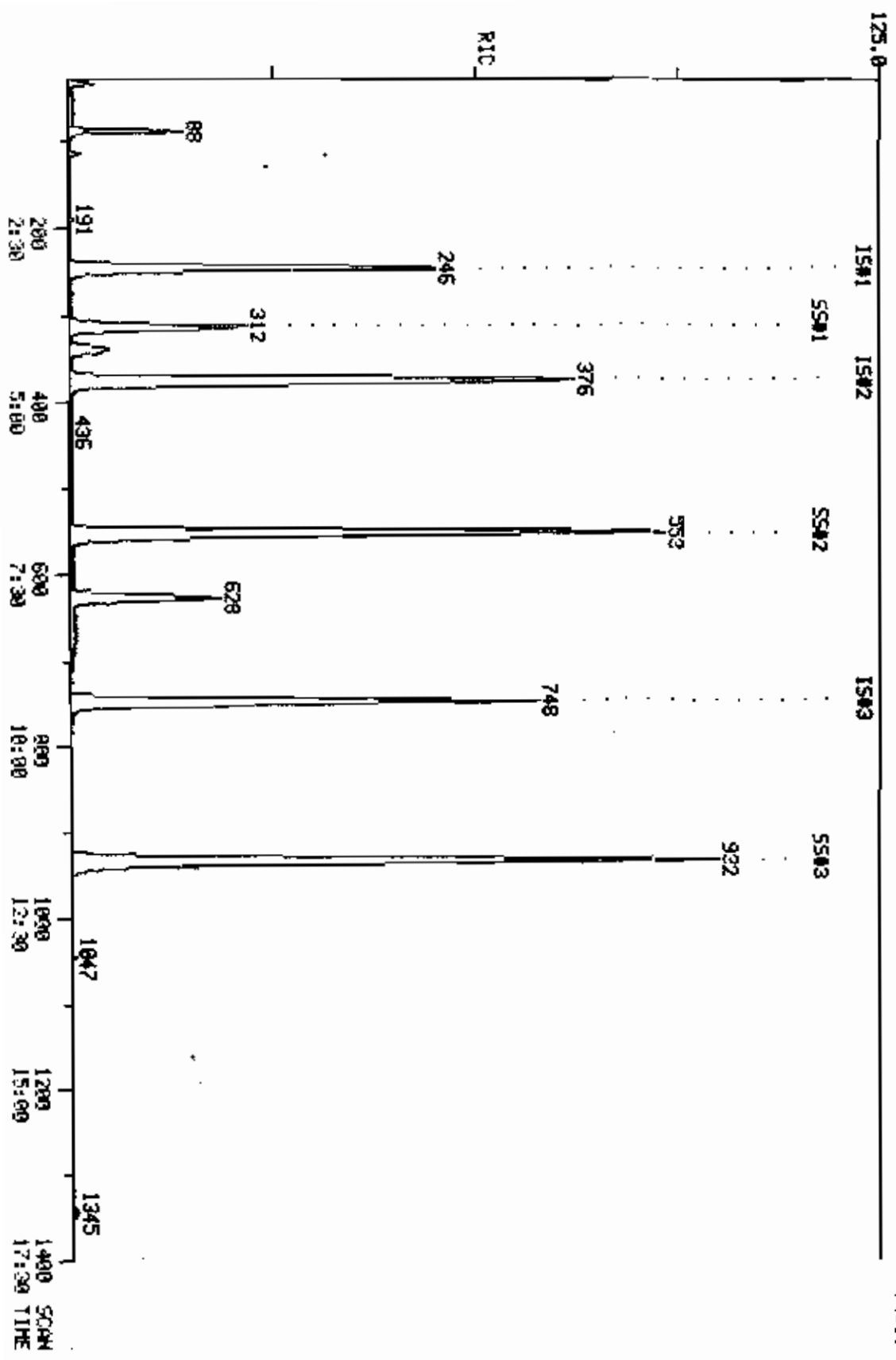
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

FORM I VOA-TIC

1/87 Rev.

RIC
 05/15/98 13:14:00
 SAMPLE1.D\FI.D\F37835.E\#173800111.D\F37835.D\F37835.D
 COND.S:

COMPUCHEN LABS
 COMPUCHEN DATA CHECKSUMS 28 TO 1498



QUANTITATION REPORT FILE: CN037836A19
 DATA: CN037836A19.T1
 05/15/90 13:14:00
 SAMPLE: 5ML CC#337836 EPA#: 73800111 CASE#20124 ON#19
 COND.S.:
 SUBMITTED BY: 19 ANALYST: 1492

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <79-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBIENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	*233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	246	3:04	1	1.000	A 88	45043.	50.000 UG/L	16.72
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	88	1:06	1	0.358	A BB	27927.	8.572 UG/L	2.87 <i>ug/L</i>
8	43	NOT FOUND							
9	114	376	4:42	9	1.000	A BB	184509.	50.000 UG/L	16.72
10	84	113	1:25	1	0.459	A BB	1325.	1.679 UG/L	0.56 <i>ug/L</i>
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	749	9:22	21	1.000	A BB	128966.	50.000 UG/L	16.72
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	628	7:51	21	0.838	A BB	14929.	8.152 UG/L	2.73 <i>ug/L</i>
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	312	3:54	1	1.268	A BB	48687.	43.148 UG/L	14.43
41	95	933	11:40	21	1.246	A BB	65402.	43.090 UG/L	14.41
42	98	553	6:55	21	0.738	A BB	170633.	44.462 UG/L	14.87

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39		10.000			50.00		0.751	
6	1:03		5.000			50.00		1.389	
7	1:07	0.99	5.000	0.07	8.57	50.00	0.620	3.616	0.17
8	1:11		10.000			50.00		0.259	
9	4:45	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	0.97	5.000	0.09	1.68	50.00	0.029	0.876	0.03
11	1:40		5.000			50.00		0.941	
12	2:05		5.000			50.00		1.103	
13	2:19		10.000			50.00		0.255	
14	2:49		5.000			50.00		0.937	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55		5.000			50.00		0.495	
20	4:04		5.000			50.00		1.236	
21	9:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.459	
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.362	
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52	1.00	5.000	0.17	8.15	50.00	0.116	0.710	0.16
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.744	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	0.98	5.000	0.25	43.15	50.00	1.081	1.253	0.86
41	11:42	1.00	5.000	0.25	43.09	50.00	0.507	0.588	0.86
42	6:57	0.99	5.000	0.15	44.46	50.00	1.323	1.488	0.89

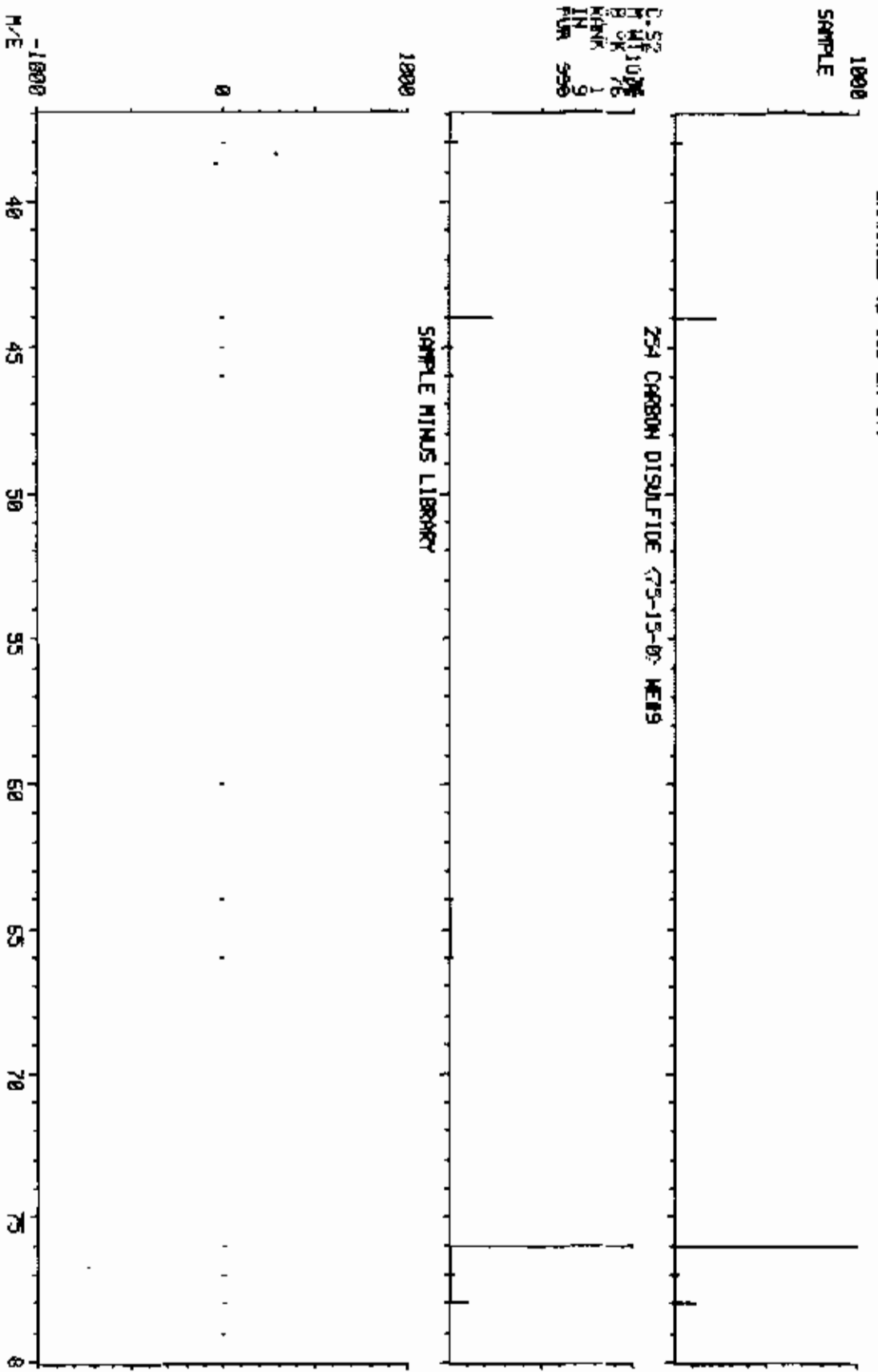
LIBRARY SEARCH
05-15-90 13:14:00 + 1:05
SAMPLE: SWL C0837836 EPA#: 73800111 CRSE#20124 ON#19
ENHANCED (5 158 2H 0T)

COMPUCHEM LABS

DATA: C0837836A19 # 88

BASE M/E: 76
PIC: 9C31.

C-52
M 0110
B OK 76
MINI 1
IN 9
FLM 996

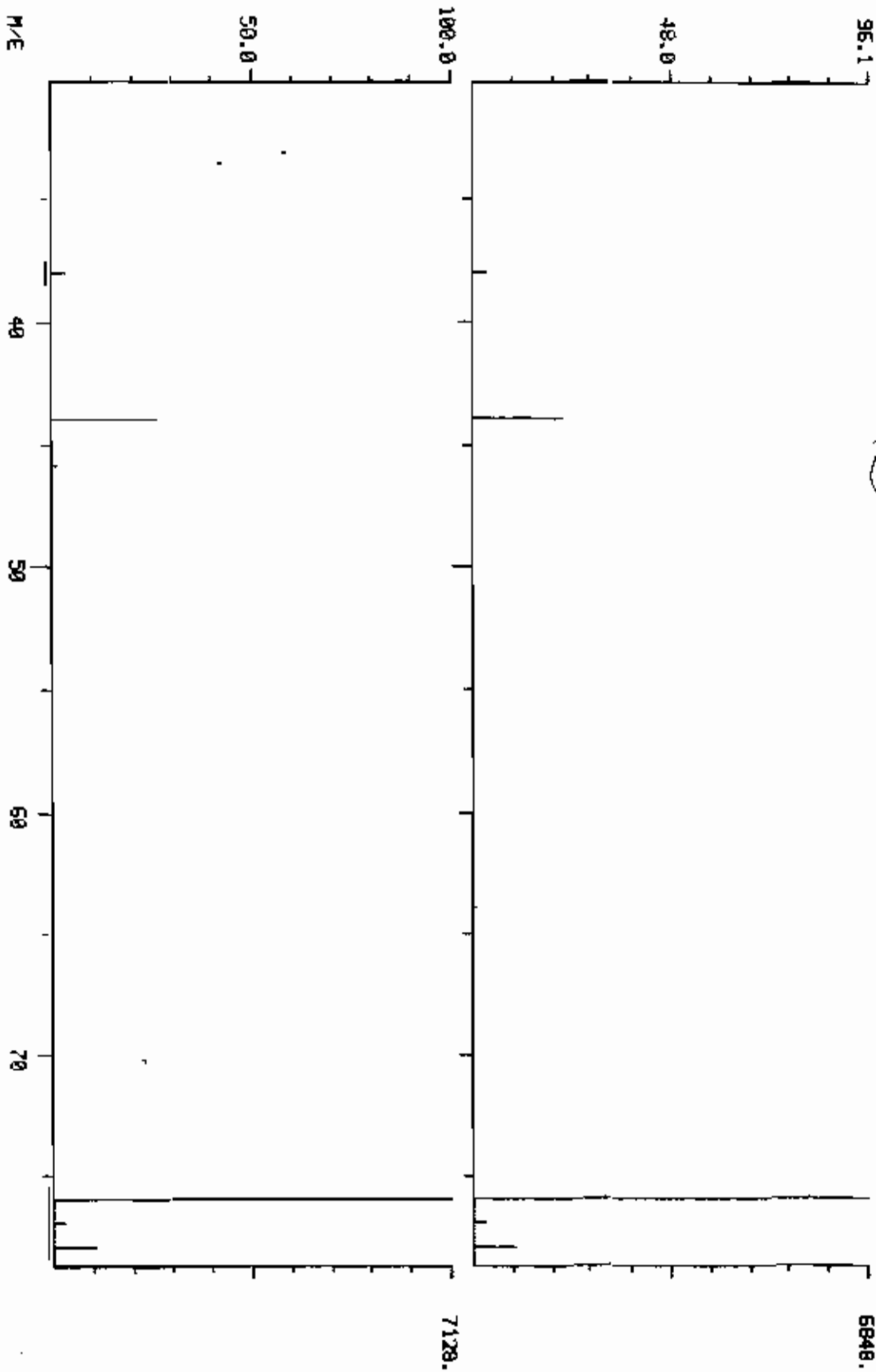


COMPUCHEM LABS

DATA: CN837936R19 #88

BASE M/E: 75/ 75
RIC: DC21.1 1A019.

DUAL MASS SPECTRUM
DEC/15/90 13:14:00 + 11.0C
SAMPLE: SML CN837836 EPA# 79800111 CASE#20124 DM#19
ENHANCED (S 158 2M) 75 CARBON DISULFIDE (75-15-8) MW#9

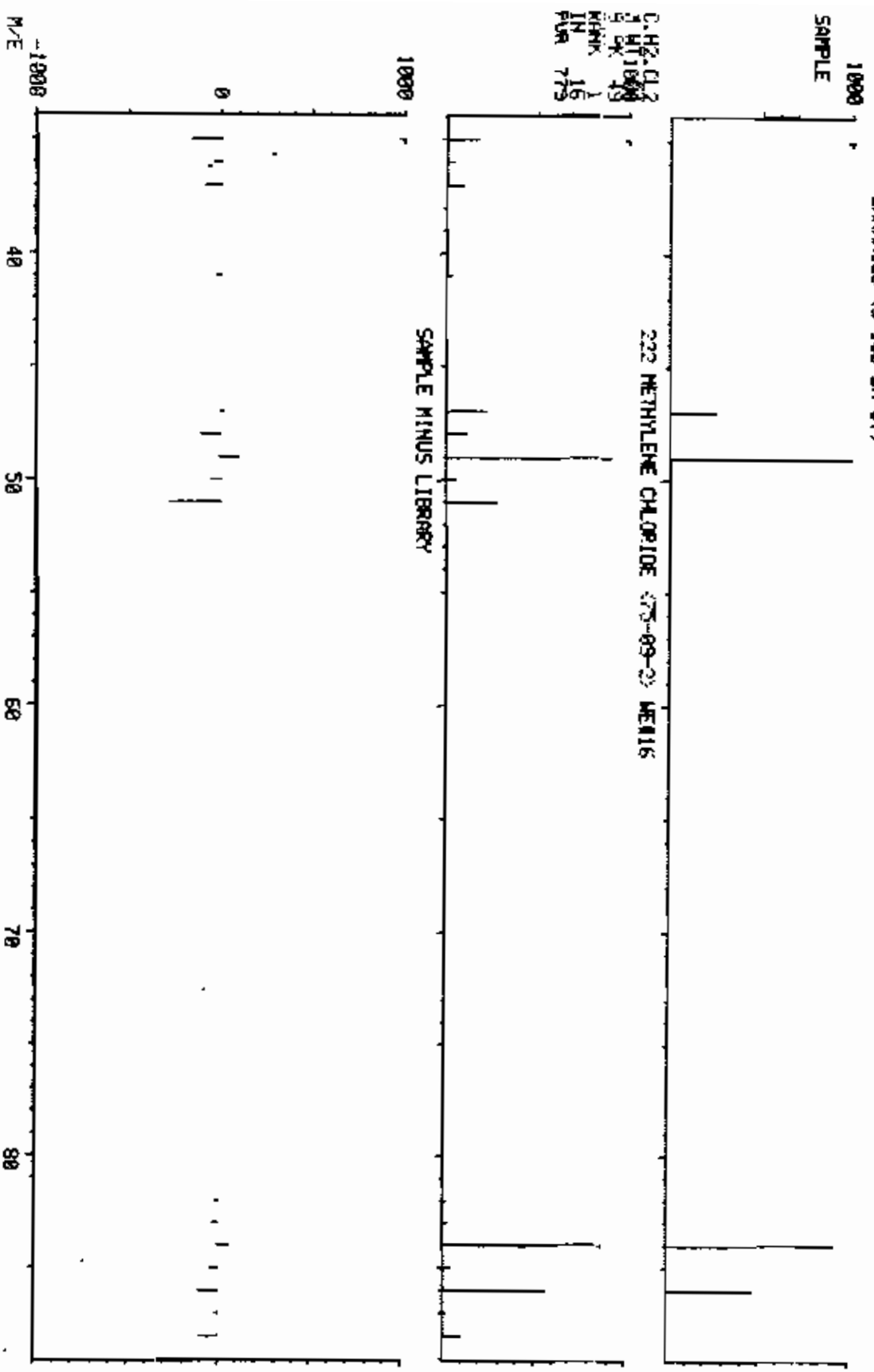


COMPUchem LABS

DATA: CM037836A19 # 113

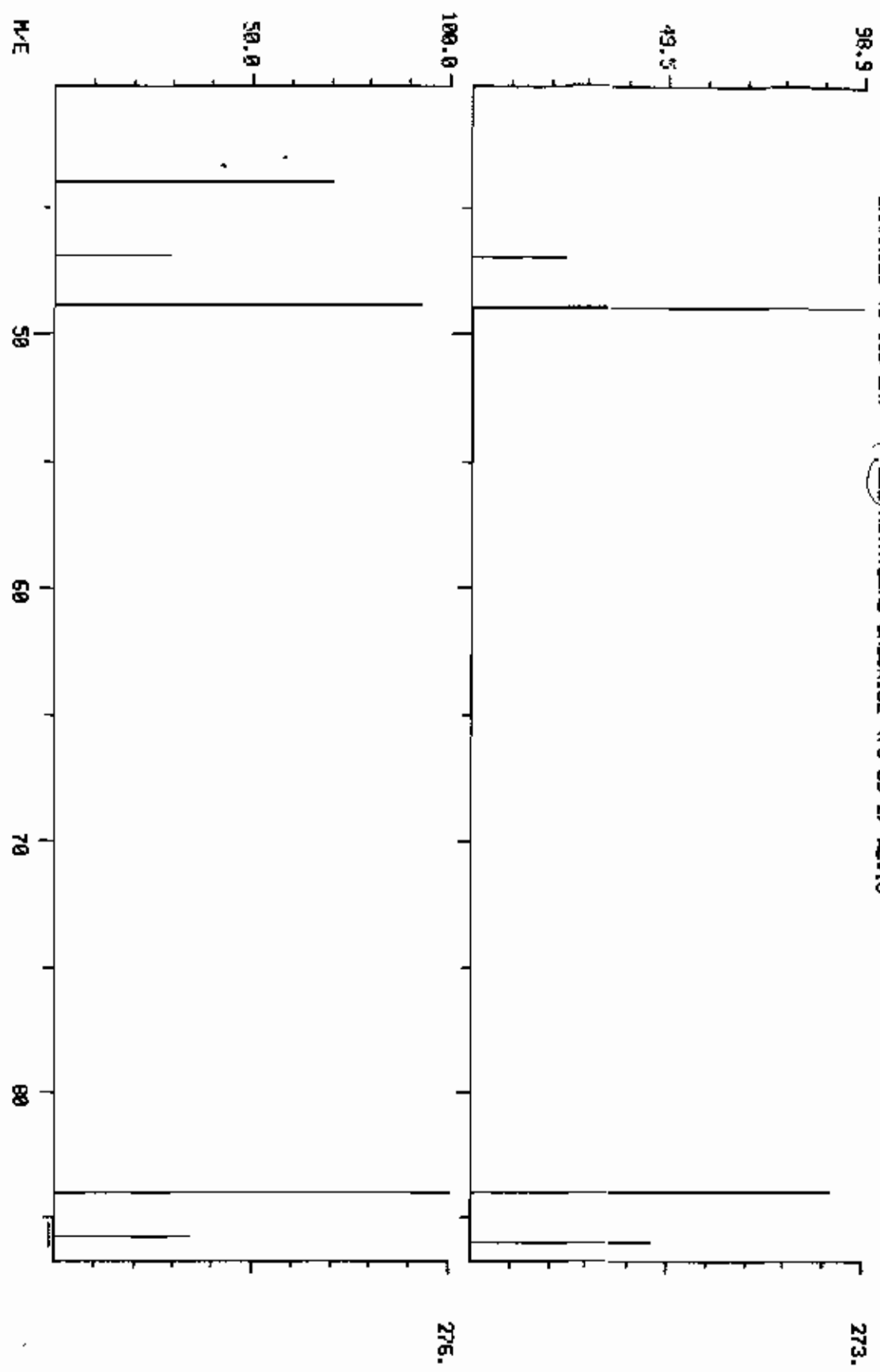
BASE M/E: 49
R1C1 712.

LIBRARY SEARCH
DATE: 12/08 13:14:58 + 14:25
SAMPLE: SWL CM0337836 EPA# 73800111 CASE# 20124 CM019
DIMENSIONS (5 158 24 87)



COMPUCHEM LABS

DUAL MASS SPECTRUM
06/15/98 13:14:00 + 1.25
SAMPLE: 5ML CCK337836 EPA# 73800111 CASE#20124 QM#19
ENHANCED (5 158 2N) 222 METHYLENE CHLORIDE (75-09-2) M#16
DATA1 C0037836A19 #113 BASE M/E: 49/ 84
RIC: 713. ✓ 690.

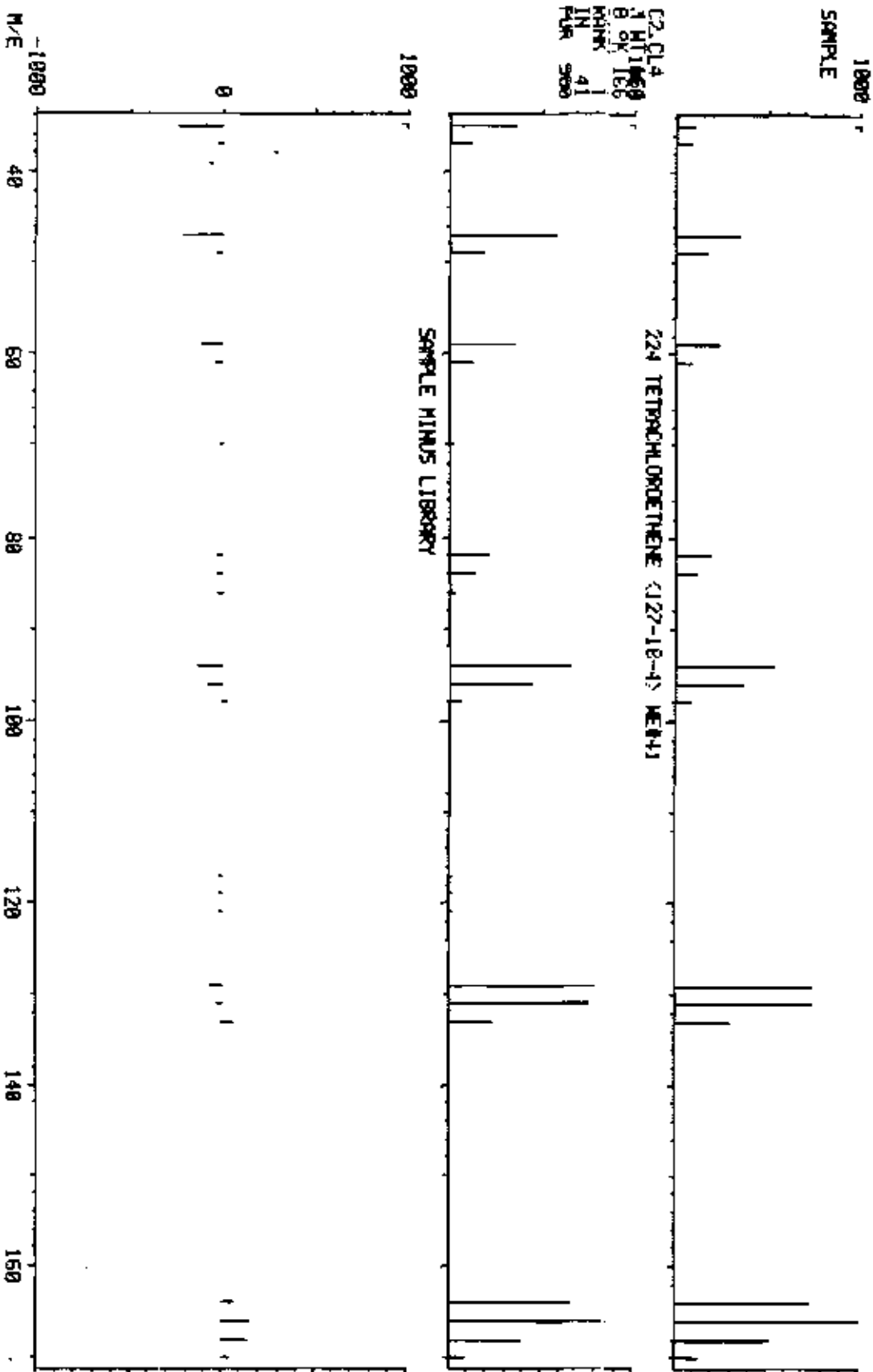


COMPUchem LABS

DATA: CM037836A19 # 628

BASE M/E: 166
RIC: 11097.

LIBRARY SEARCH
08/15/90 12:14:00 + 7:51
SAMPLE: SML CM037836 EPA#173800111 DASE#28124 CM#19
ENHANCED (S 199 2H 8T)

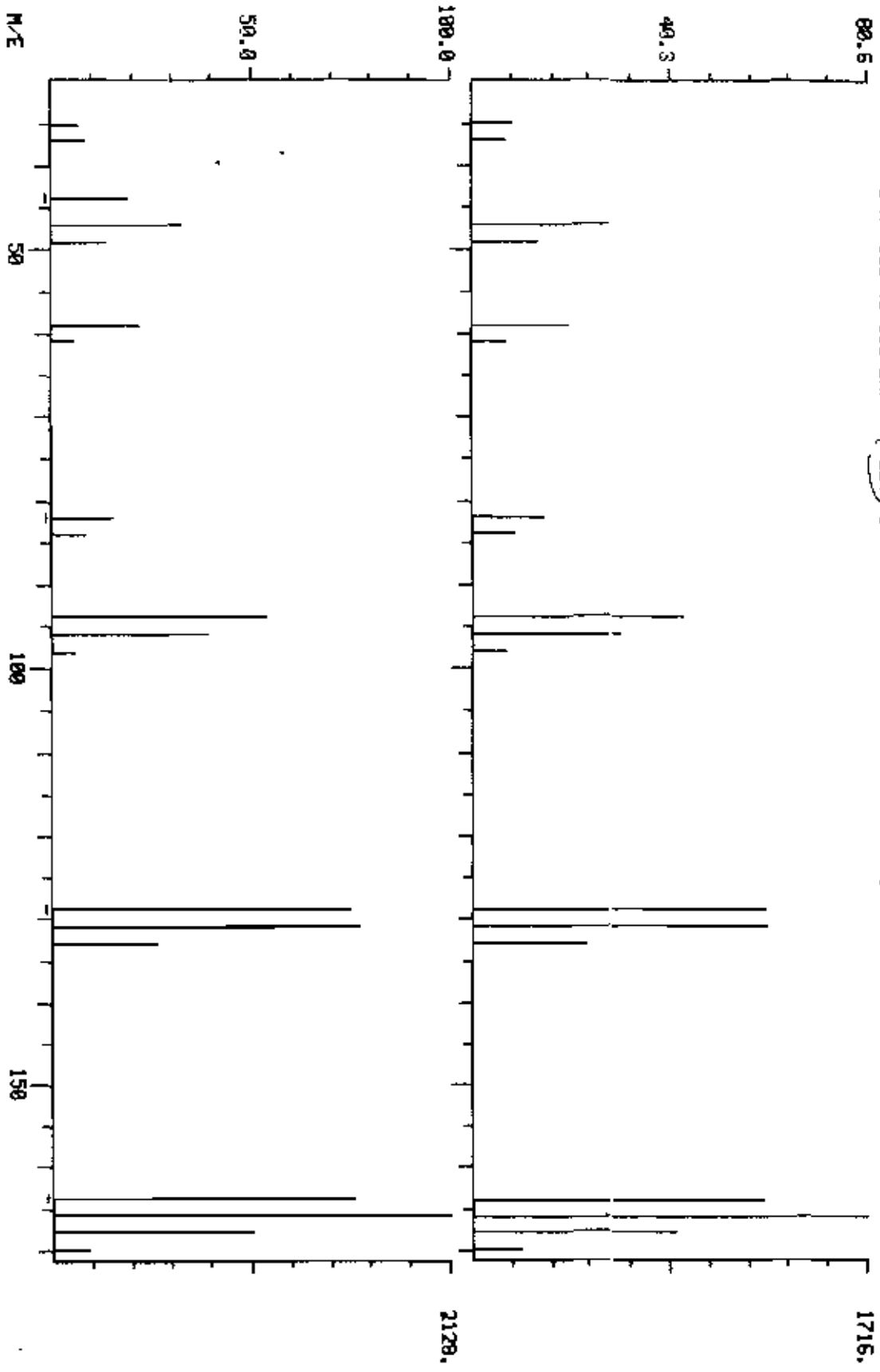


COMPUCHEM LABS

DATA: CN037836A19 #629

BASE M/E: 166/ 166
R/C: 11907.1 13647.

DUAL MASS SPECTRUM
68/18/99 13:14:00 + 7181
SAMPLE: 5ML CN037836 EPA# 73800111 CASE# 29124 ON# 19
ENHANCED (5 158 2N) 224 TETRACHLOROTHENE (127-18-4) (E#41)



RECEIPT DATE: 05/09/90 CASE#: E0124

VOA
GC/MS WORKSHEET COMPUCHEM#: J37836

JC 1 J3C 1 DC 1 (:1)
EJC 1 J4C 1 DEC 1 (:1)

GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code--- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

=====

SAMPLE ID#: 73900111

=====

GC/MS ANALYSIS

Amount Purged: [] 5 nls on [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF900515C19 Disk ()
Blank Filename CB900515C19 Disk ()
Standard Filename CS900515C19 Disk ()
Sample Filename CA1637836A19 Disk ()

RECEIVED
MAY 18 1990
RESOLUTIVE

ANALYST(S): Injection 1492/Alan Gust Work-up 1492/Alan Gust

GC/MS REVIEW

CONDITION
CODE

OK

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 0

[] Reinject Neat

Quality Assurance Notice(s):

Notices Required 1

[] Dilute (:1)

COMMENTS:

#GC/MS Review OK/Stub Date 5/17/90 Auditor _____ Date ____/____/____

REPORT INTEGRATION

Final Reportable Package(s): CNO-A19 Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	246	45000	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
294	76	CARBON DISULFIDE			8.6	9	5
292	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	376	185000	50.0		
222	84	METHYLENE CHLORIDE			1.7	20.0	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	05-CHLORO BENZENE (IS)	749	129000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	93	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE			8.2	8	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLORO BENZENE				BDL	5
219	106	ETHYL BENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	63 S	D4-1,2-DICHLOROETHANE WE#57			43.1	86.2	
247	95 S	BROMOFLUOROBENZENE			43.1	86.2	
233	98 S	08-TOLUENE WE#59 SS#2			44.5	89.2	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY D. S. Smith
(GC/MS DATA REVIEWER)DATE 5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT RPPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
	3979.		1371	359000.	299.2		19.

CORRECTED/REVIEWED BY *C. J. ...*
(CC/MS DATA REVIEWER)DATE 5/17/90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	04-1,2-DICHLOROETHANE WE#57	43.1	50.0	86.	76-114	X	
41	247	BROMOFLUOROBENZENE	43.1	50.0	86.	86-115	X	
42	233	08-TOLUENE WE#59 SS#2	44.5	50.0	89.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARKING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY OKT
 (CC/MS DATA REVIEWER)

DATE 5-17-90

QUALITY ASSURANCE NOTICE

CompuChem # 227836
Blank ID # C890052549
Case 2A124

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8248" and "Semivolatile Analysis by GC/MS--Method 8278." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/lb; acetone may not exceed 50 ug/lb. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
Manager, Quality Assurance

C44285
871026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800112

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 3378J7
 Sample wt/vol: 2.0 (g/mL) ML Lab File ID: C2R378J7C19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/16/90
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	19	J
75-09-2	Methylene Chloride	19	BJ
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-7	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	79	
10061-02-6	Trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-Pentanone	38	U
591-78-6	2-Hexanone	38	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-88-3	Toluene	29	
108-90-7	Chlorobenzene	18	
100-41-4	Ethylbenzene	170	
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	490	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73800112

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337837
 Sample wt/vol: 2.0 (g/mL) ML Lab File ID: C2R17817C19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/16/90
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 5 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

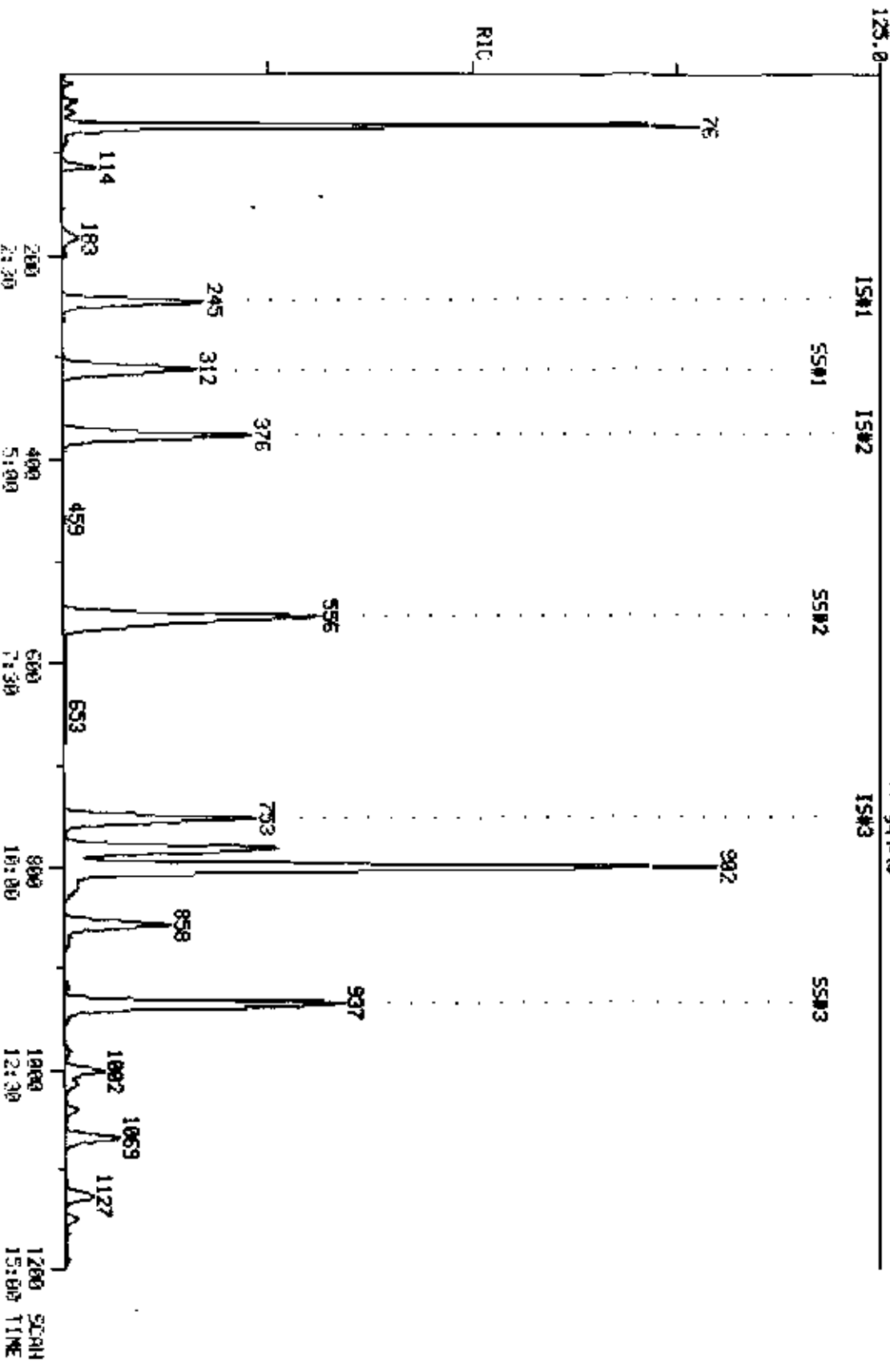
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHANE, 1, 1'-OXYBIS-	0.95	330	J
2. 108-20-3	PROPANE, 2, 2'-OXYBIS-	2.28	18	J
3.	ETHYLMETHYLBENZENE	12.52	28	J
4.	TRIMETHYLBENZENE	13.35	38	J
5.	DIETHYLBENZENE	14.09	23	J

COMPUCHEN LABS

COMPUCHEN DATA CAG027027C19 SCAN# 25 TO 1200

RIC
05/16/98 11:13:00
SAMPLE# 20880L CASE# 20124 CC# 337837 EPA# 73080112 RE CN 13
COND# 1

212880.



QUANTITATION REPORT FILE: C2R37837C19 /
 DATA: C2R37837C19.TI
 05/16/90 1:13:00
 SAMPLE: 2000UL/CASE# 20124/CC# 337837/EPA# 73800112 RE DN 19
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1171

500
5-17-90

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 *234 BROMOCHLOROMETHANE (19) <75-97-5> WE#1
- 2 221 CHLOROMETHANE <74-87-3> WE#2
- 3 231 VINYL CHLORIDE <75-01-4> WE#3
- 4 220 BROMOMETHANE <78-83-9> WE#4
- 5 209 CHLOROETHANE <75-00-3> WE#5
- 6 216 1,1-DICHLOROETHENE <75-35-4> WE#8
- 7 254 CARBON DISULFIDE <75-15-0> WE#9
- 8 252 ACETONE (2-PROPANONE) <67-64-1> WE#13
- 9 *248 1,4-DIFLUOROBENZENE (19) <540-36-3> WE#14
- 10 222 METHYLENE CHLORIDE <75-09-2> WE#16
- 11 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
- 12 214 1,1-DICHLOROETHANE <75-34-3> WE#19
- 13 257 VINYL ACETATE <108-05-4> WE#20
- 14 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
- 15 253 2-BUTANONE <78-93-3> WE#22
- 16 211 CHLOROFORM <67-66-2> WE#23
- 17 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
- 18 206 CARBON TETRACHLORIDE <56-23-5> WE#25
- 19 203 BENZENE <71-43-2> WE#26
- 20 215 1,2-DICHLOROETHANE <107-06-2> WE#27
- 21 *270 D5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
- 22 229 TRICHLOROETHENE <79-01-6> WE#30
- 23 217 1,2-DICHLOROPROPANE <78-87-5> WE#31
- 24 212 BROMODICHLOROMETHANE <75-27-4> WE#33
- 25 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
- 26 256 4-METHYL-2-PENTANONE <108-01-1> WE#36
- 27 225 TOLUENE <108-88-3> WE#37
- 28 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
- 29 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
- 30 224 TETRACHLOROETHENE <127-18-4> WE#41
- 31 255 2-HEXANONE <591-78-6> WE#42
- 32 208 DIBROMOCHLOROMETHANE, 124-48-1> WE#43
- 33 207 CHLOROBENZENE <108-90-7> WE#45
- 34 219 ETHYLBENZENE <100-41-4> WE#47
- 35 330 M,P-XYLENE <133-02-7> WE#48
- 36 239 O-XYLENE <133-02-7> WE#49
- 37 251 BTYRENE <100-42-5> WE#50
- 38 205 BROMOFORM <75-25-2> WE#51
- 39 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
- 40 *258 D4-1,2-DICHLOROETHANE WE#57 SS#1
- 41 *247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
- 42 *233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
1	128	245	3:04	1	1.000	A 88	47879.	50.000 UG/L	7.87
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	51	0:38	1	0.208	A BB	6708.	7.629 UG/L	1.20UGS
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	376	4:42	9	1.000	A BB	190026.	50.000 UG/L	7.87
10	84	114	1:25	1	0.465	A BB	8457.	7.598 UG/L	1.20UGS
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	182	2:16	9	0.484	A BB	10671.	8.448 UG/L	1.33ND
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	311	3:53	9	0.827	A BB	71220.	31.637 UG/L	4.98UGS
20	62	NOT FOUND							
21	117	753	9:25	21	1.000	A BB	136082.	50.000 UG/L	7.87
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	571	7:08	21	0.758	A*VB	1301.	1.154 UG/L	0.18ND
27	92	564	7:03	21	0.749	A BB	30559.	11.386 UG/L	1.79UGS
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	756	9:27	21	1.004	A BB	16250.	7.203 UG/L	1.13UGS
34	106	783	9:47	21	1.040	A BV	72912.	68.571 UG/L	10.80UGS
35	106	802	10:01	21	1.065	A VB	247745.	163.752 UG/L	25.78UGS
36	106	858	10:43	21	1.139	A BV	46916.	33.093 UG/L	5.21UGS
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	313	3:55	1	1.278	A BB	62630.	49.654 UG/L	7.82
41	95	937	11:43	21	1.244	A BB	79656.	49.094 UG/L	7.73
42	98	556	6:57	21	0.738	A BB	191948.	36.033 UG/L	7.25

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	3:07	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27		10.000			50.00		0.400	
3	0:33		10.000			50.00		0.503	
4	0:37		10.000			50.00		0.813	
5	0:40	0.96	10.000	0.02	7.63	50.00	0.140	0.918	0.15
6	1:03		5.000			50.00		1.664	
7	1:07		5.000			50.00		4.561	
8	1:12		10.000			50.00		0.336	
9	4:43	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:28	0.97	5.000	0.09	7.60	50.00	0.177	1.162	0.15
11	1:40		5.000			50.00		1.149	
12	2:07		5.000			50.00		1.329	
13	2:20	0.97	10.000	0.05	8.45	50.00	0.056	0.332	0.17
14	2:49		5.000			50.00		1.128	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:01		10.000			50.00		0.067	
16	3:21		5.000			50.00		2.050	
17	3:22		5.000			50.00		0.546	
18	3:34		5.000			50.00		0.634	
19	3:55	0.99	5.000	0.17	31.64	50.00	0.375	0.592	0.63
20	4:04		5.000			50.00		1.419	
21	9:22	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.519	
23	5:18		5.000			50.00		0.228	
24	5:55		5.000			50.00		0.767	
25	6:38		5.000			50.00		0.698	
26	7:04	1.01	15.000	0.05	1.15	50.00	0.010	0.414	0.02
27	7:01	1.00	5.000	0.15	11.39	50.00	0.225	0.986	0.23
28	7:41		5.000			50.00		0.427	
29	7:55		5.000			50.00		0.450	
30	7:51		5.000			50.00		0.814	
31	8:34		15.000			50.00		0.200	
32	8:29		5.000			50.00		0.749	
33	9:25	1.00	5.000	0.20	7.20	50.00	0.119	0.829	0.14
34	9:45	1.00	5.000	0.21	68.57	50.00	0.536	0.391	1.37
35	10:00	1.00	5.000	0.21	163.75	50.00	1.621	0.596	3.28
36	10:41	1.00	5.000	0.23	33.09	50.00	0.345	0.521	0.66
37	10:46		5.000			50.00		0.961	
38	11:01		5.000			50.00		0.618	
39	12:18		5.000			50.00		0.384	
40	3:57	0.99	5.000	0.26	49.65	50.00	1.308	1.317	0.99
41	11:40	1.00	5.000	0.25	49.09	50.00	0.585	0.596	0.98
42	6:55	1.00	5.000	0.15	46.03	50.00	1.411	1.532	0.92

COMPUCHEM LABS

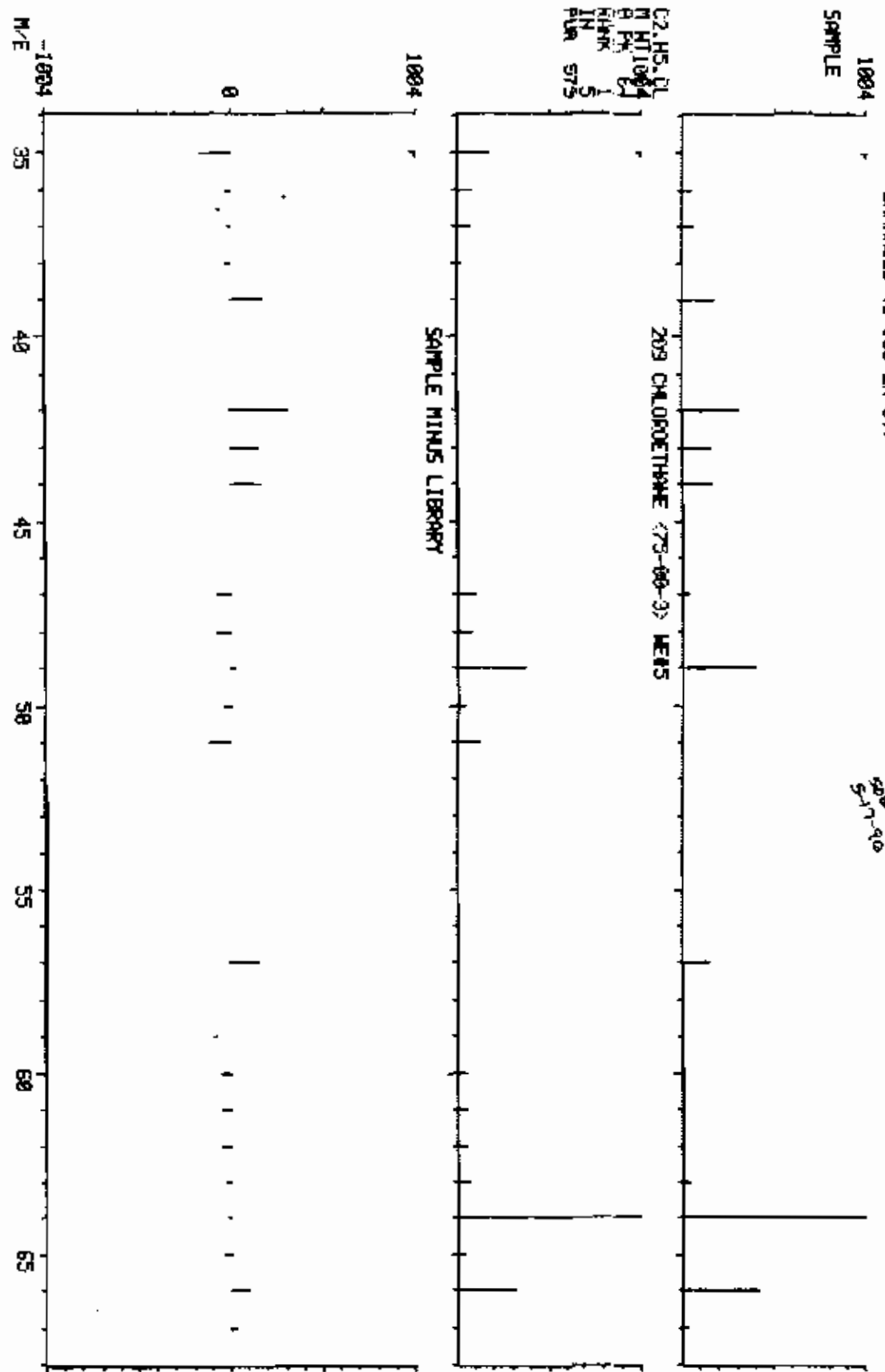
DATA: C2R37937C19 # 51

BASE M/E: 64
R1C1 2997.

LIBRARY SEARCH
05/16/90 1:13:00 + 0:30
SAMPLE: 2090UL CASE# 20124 CCM 337837 EPA# 73880112 REC ON 19
EMANDED (5 158 2nd 01)

*50^u
5-11-90*

C2.H5.LI
M.HI.004
R.P. 64
R.H.K.
J.N.
P.L.R. 575

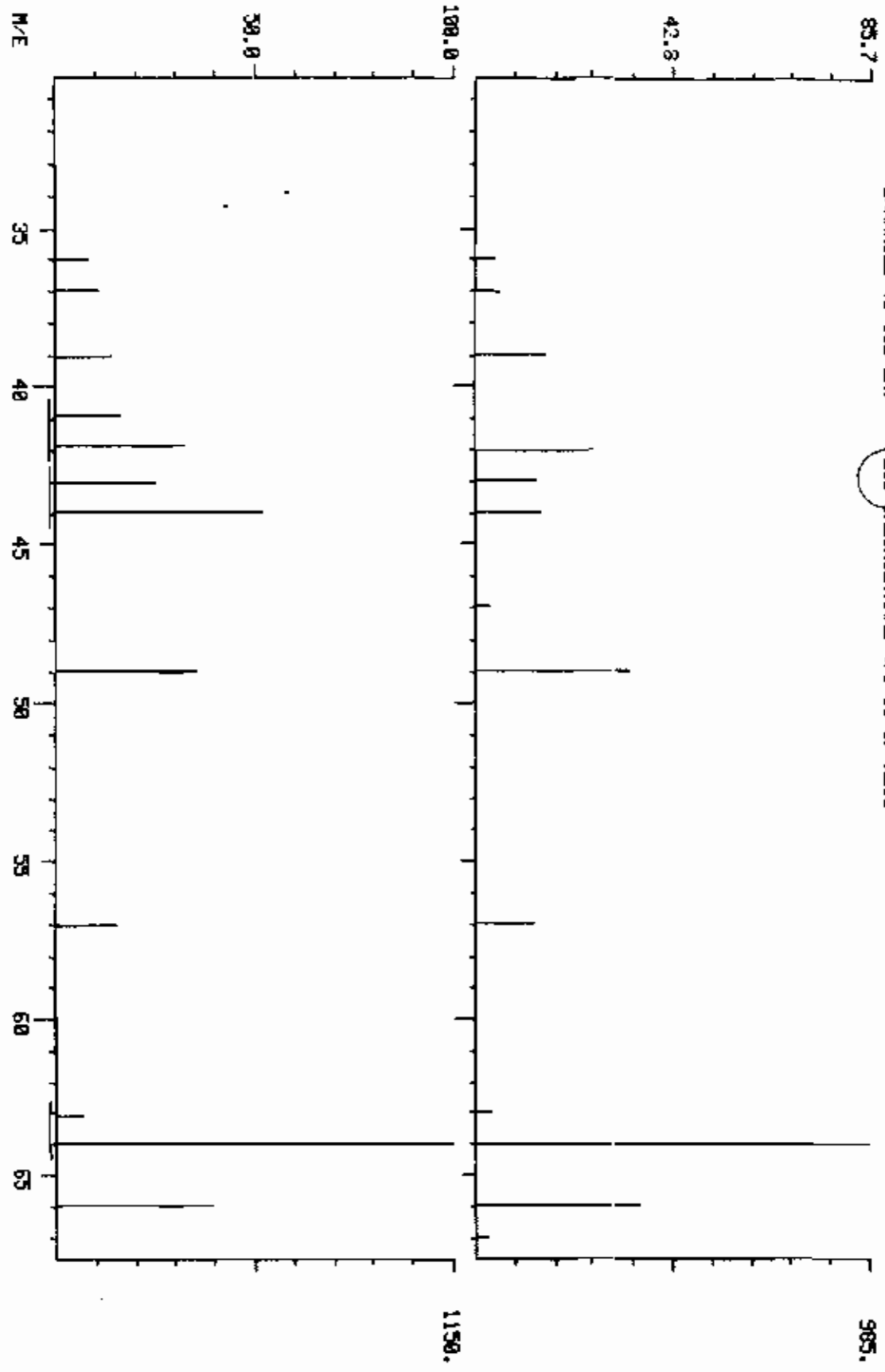


COMPUCHEN LABS

DATA: C2K37837C19 #31

BASE M/E: 64/ 54
R/C: 2907.7 4867.

DUAL MASS SPECTRUM +
08/16/90 1119.00 + 01.20
SAMPLE: 20881L CASE # 20124 CD# 307837 EPA# 73880112 REC ON 19
ENHANCED (5 158 21) 209 CALORCETHANE (75-90-3) WETS



COMPUchem LABS

DATA1 C2R3787C19 # 114

BASE M/EI 49
R1C1 7071.

LIBRARY SEARCH
08/16/98 11:01:00 + 11:25
SAMPLE 2080UL CASE# 20124 C09 337837 EPA# 73880112 R# 04 19
ENHANCED (5 158 2H 0T)

SP# 9-11-98

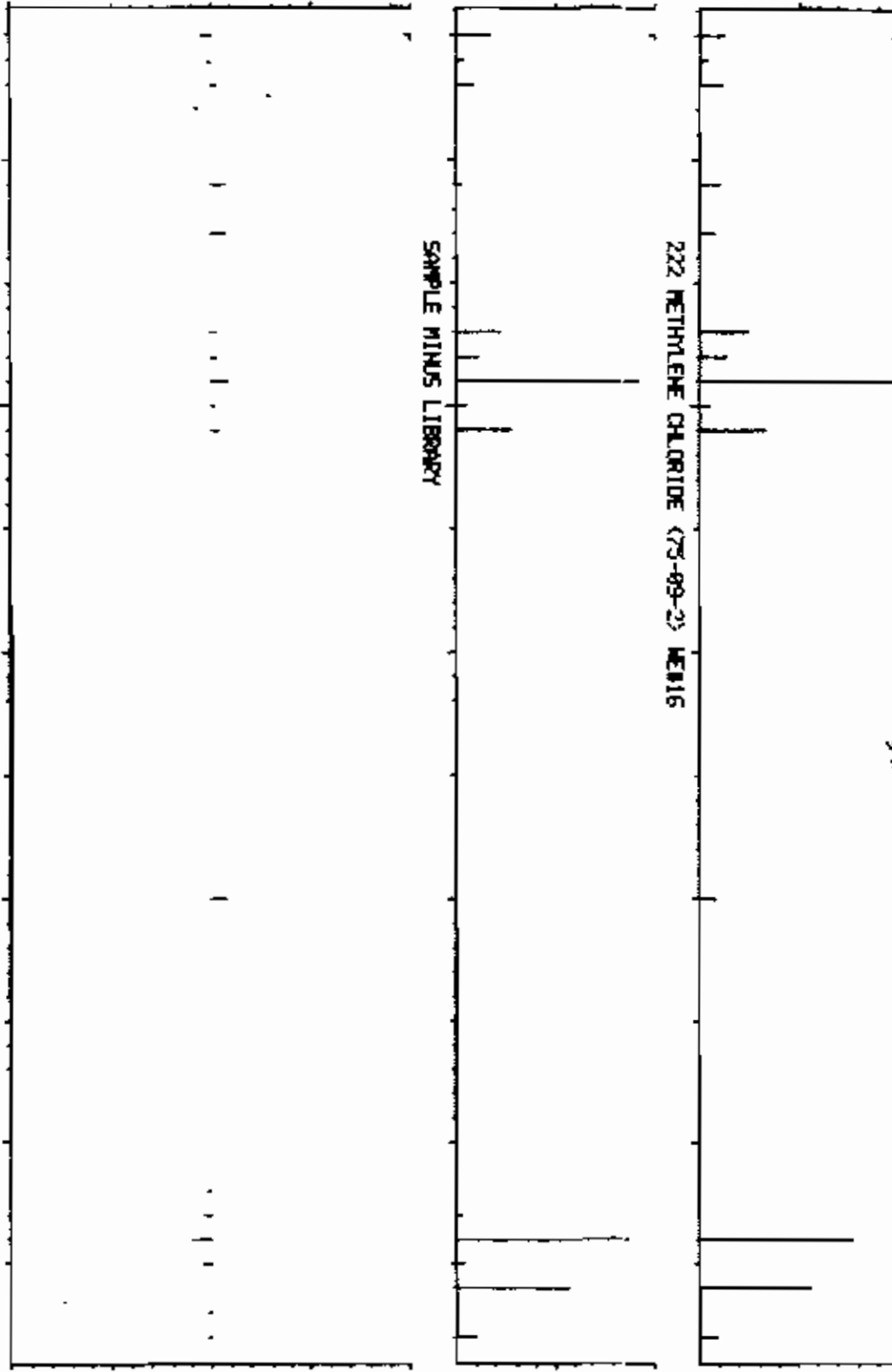
10000
SAMPLE

C.H2.C12
1 HIT 100%
8 PK 49
M+PK 1
IN 15
PDR 927

222 METHYLENE CHLORIDE (75-09-2) MW 116

SAMPLE MINUS LIBRARY

-10000
M/E 40 50 60 70 80

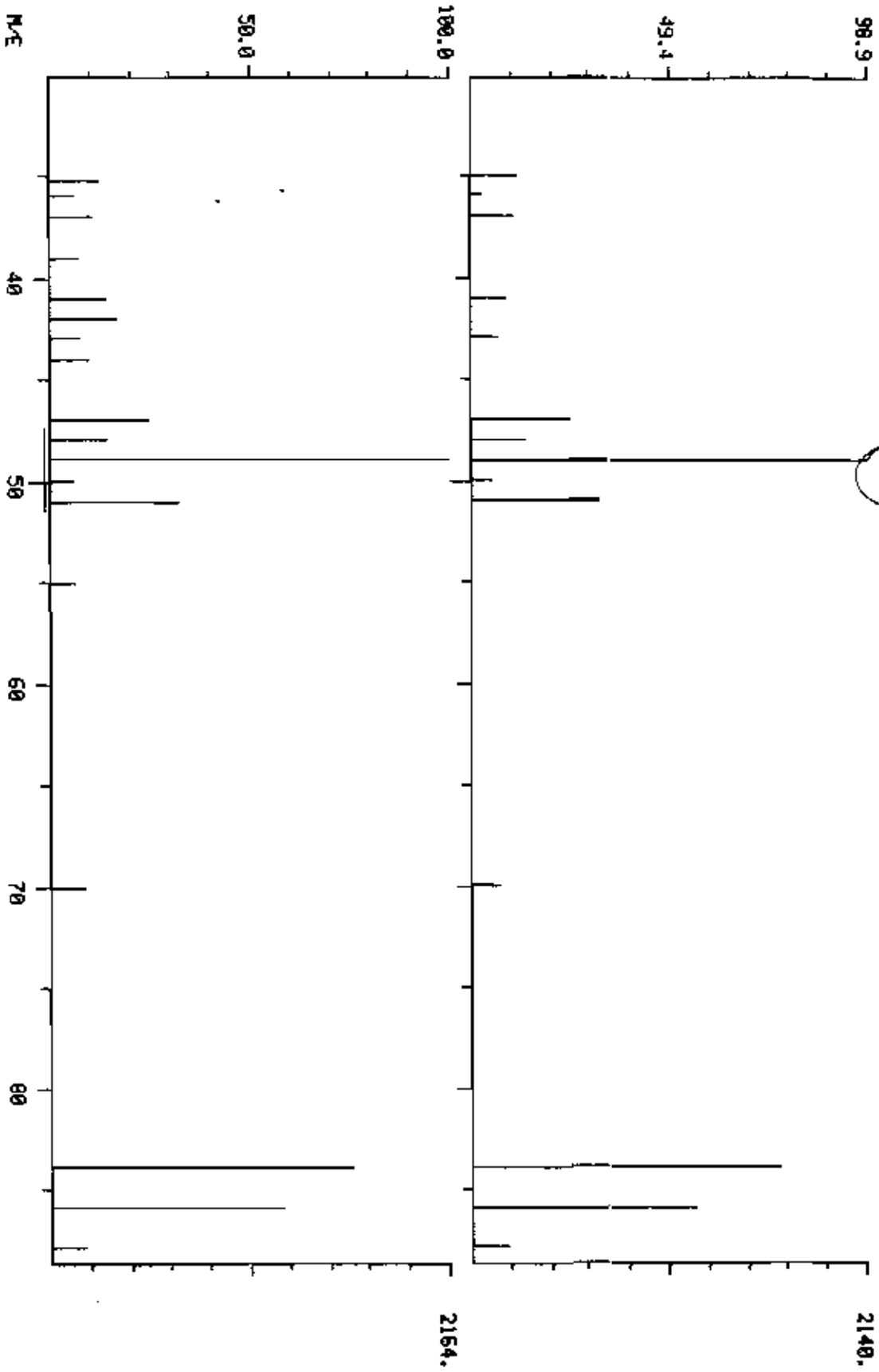


COMPUCHEN LABS

DATA: C2R37837C19 0114

BASE M/E: 49/ 49
R1C1 7871.9 9923.

DUAL MASS SPECTRUM
05/16/90 1:13:00 + 1:25
SAMPLE1 2808UL CRSE# 28124 CD# 337837 EPA# 73880112 PC OM 19
EVIDENCED (5 152 210) 222 METHYLENE CHLORIDE (75-09-2) W2816



COMPUCHEN LABS

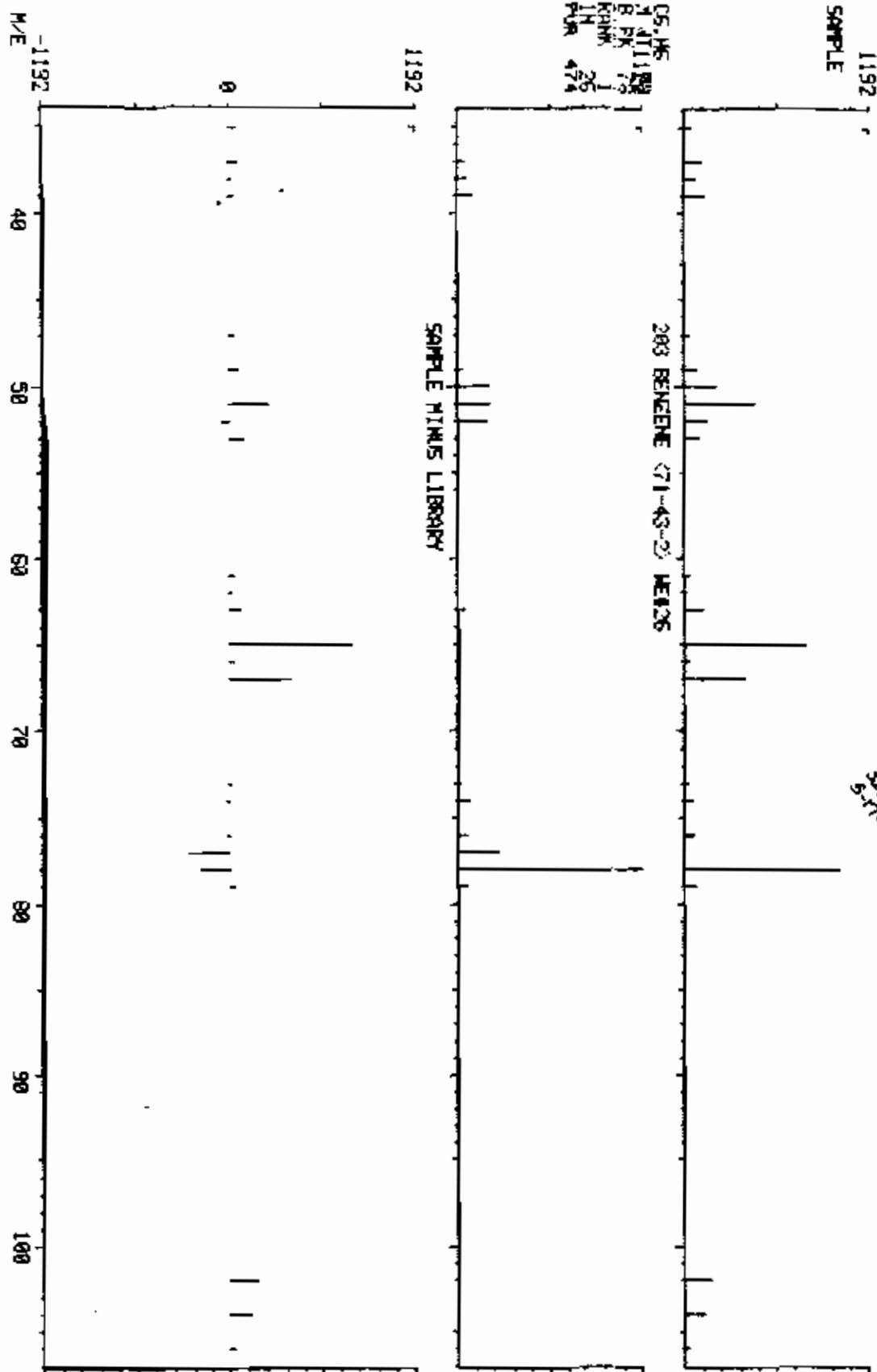
DATA: C2R37637C19 # 311

BASE M/E: 78
R1: 26922.

LIBRARY SEARCH
06/15/90 11:21:00 + 3153
SAMPLE: 20900L CASE# 20124 CCR 337637 EPA# 73800112 R# 04 19
ENHANCED (5 158 21 01)

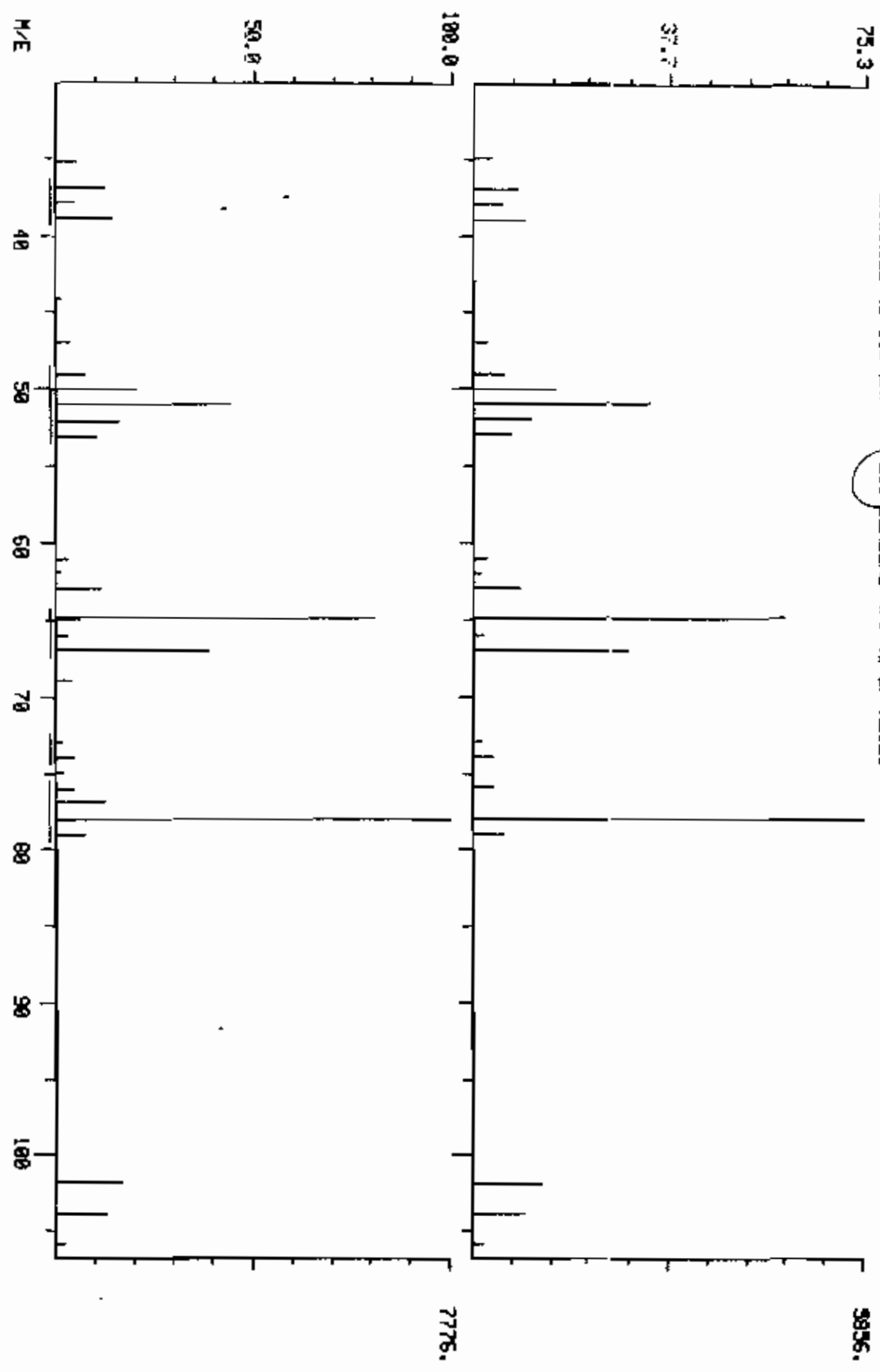
SMP-209
5/11/90

06.16
1.111
B PK 1.7
KHM 1.1
IN 26
PUR 474



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/90 1:13:00 + 2183
SAMPLE: 2000UL CASE# 20129 CD# 337837 EPA# 73880112 RC# DN 19
ENHANCED (5 158 214) 203 BENZENE (71-43-2) WET26
DATA: C2R37837C19 #311 BASE M/EI 78/ 78
R1C# 28055. ✓ 24539.



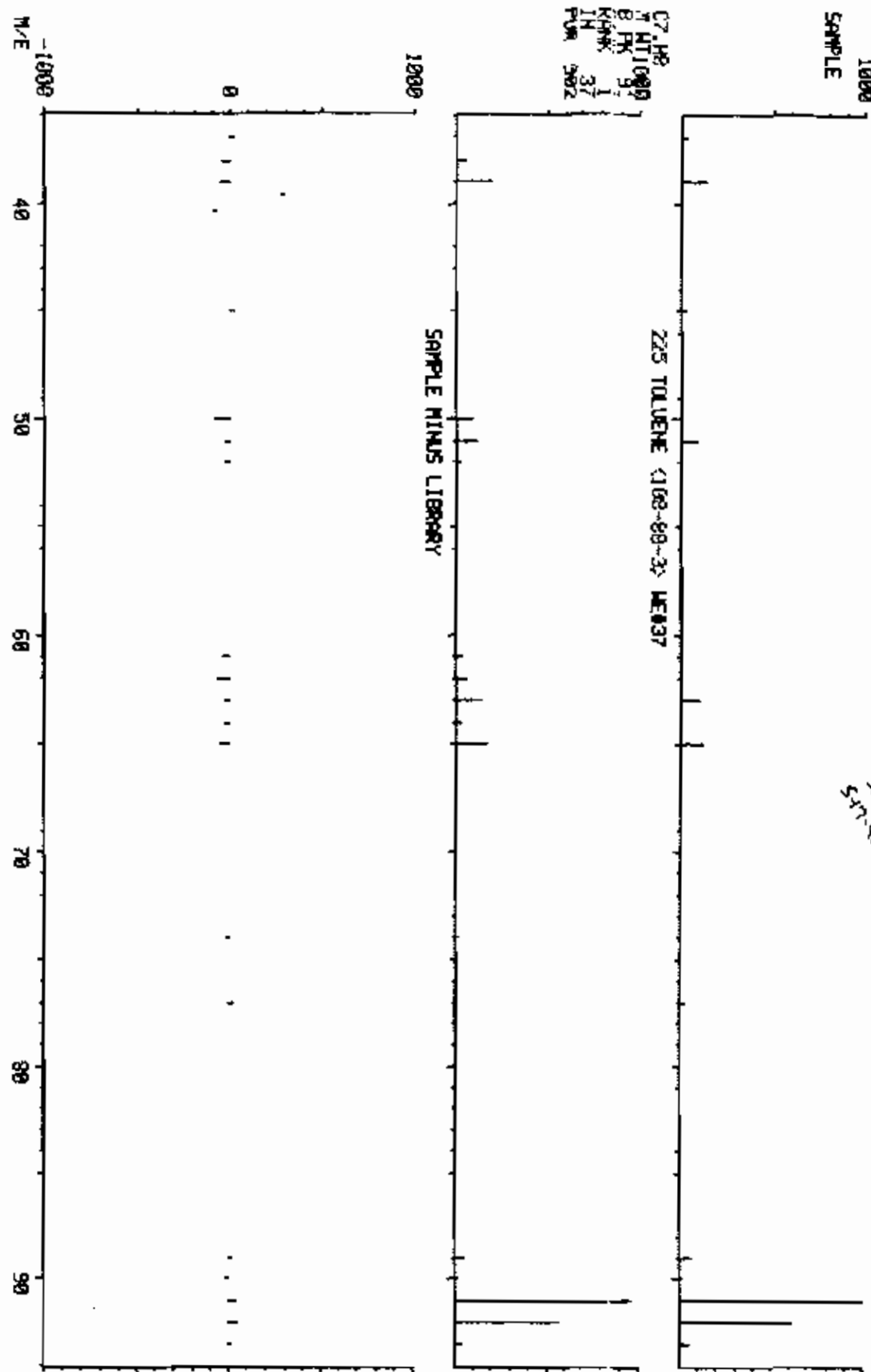
COMPUchem LABS

DATA: C2R37837C19 # 564

BASE M/E: 91
R1C1 10271.

LIBRARY SEARCH
06/16/90 11:13:00 + 7:03
SAMPLE: 2000UL CASE# 28124 C# 337837 EPA# 73600112 RE' ON 19
ENHANCED (5 158 24 01)

547.00



C7.H8
T.H10.00
B.FK 57
K.K.K 37
I.H 1
P.W 502

DOMPUCHEM LABS

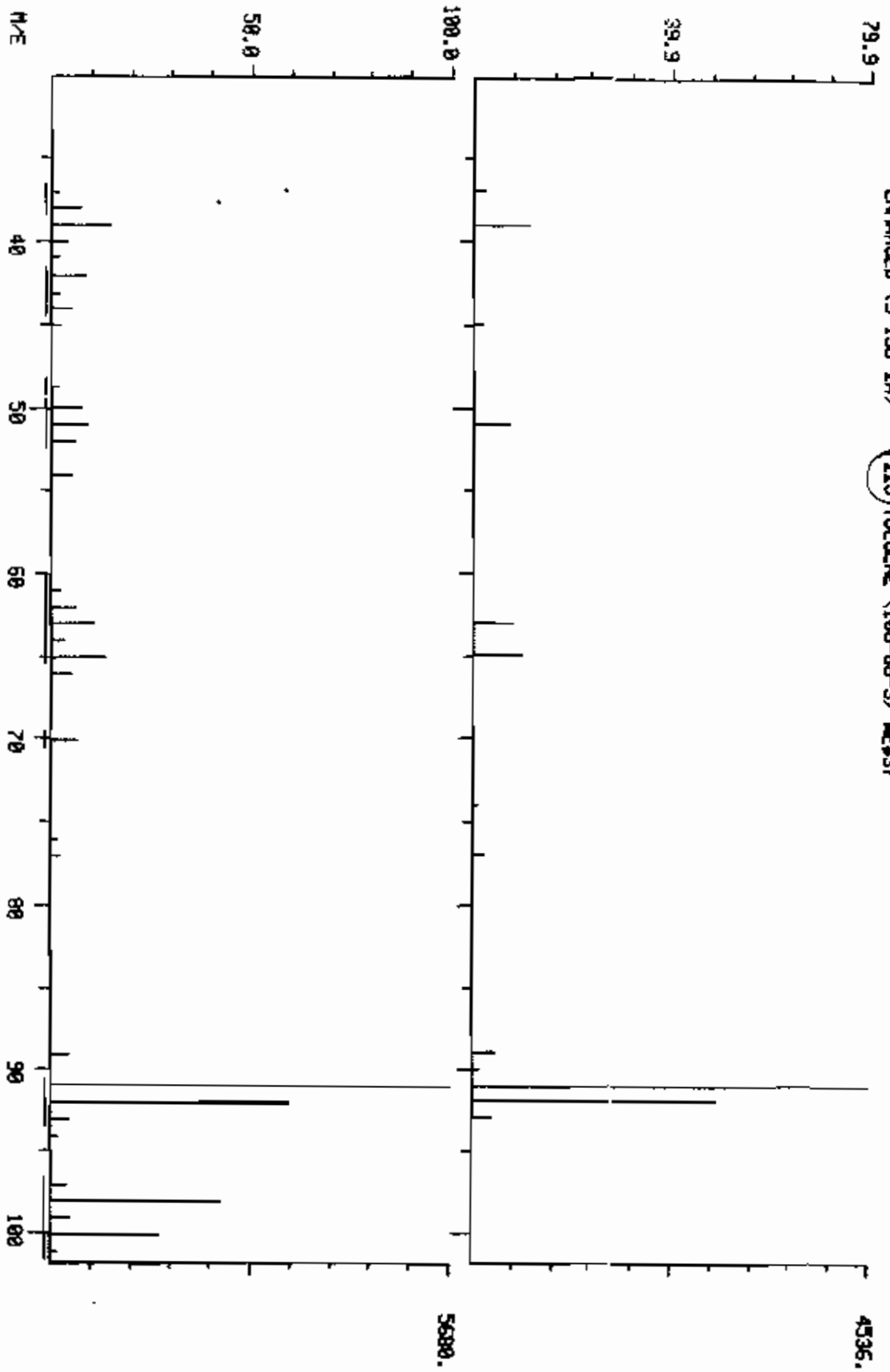
DATA# C2R37937C19 0564

BASE M/EI 91/ 91

RICI 10271.7

21429.

DUAL MASS SPECTRUM
06/16/90 1113:00 + 71.00
SAMPLE# 2000UL CRSE# 20124 C1# 337937 EPA# 73000112 PC ON 19
EQUIP#ED (S 158 2H) (225) TOLUENE (100-82-3) W#937



LIBRARY SEARCH
AC/IC/90 1:13:00 + 9:27
SAMPLE: 2000UL CASE# 20124 OCA 337837 EP#0 73800112 BE ON 19
ENRICHED (5 15B 2N 0T)

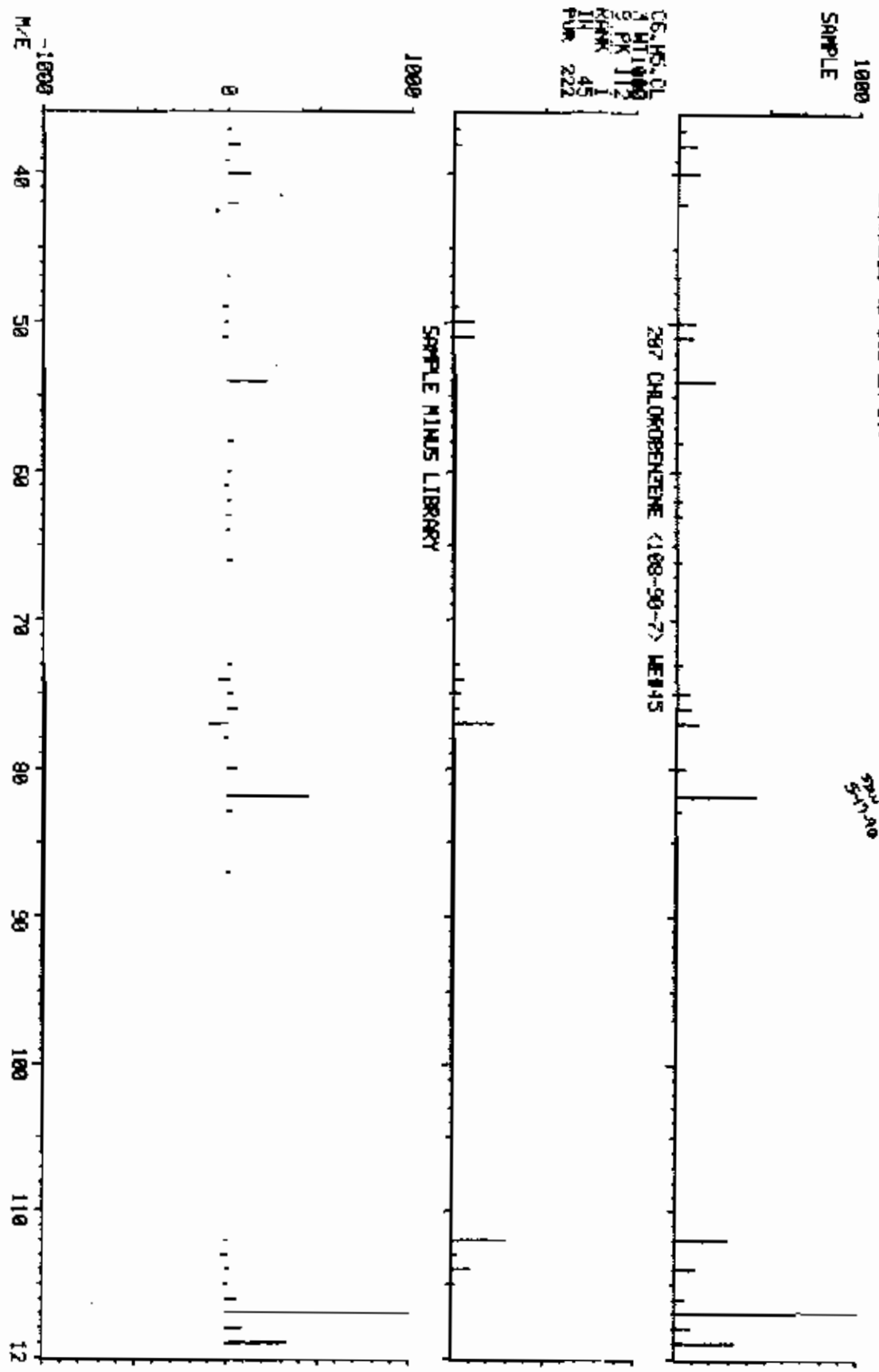
COMPUCHEM LABS

DAT#1 C2R37837C19 # 756

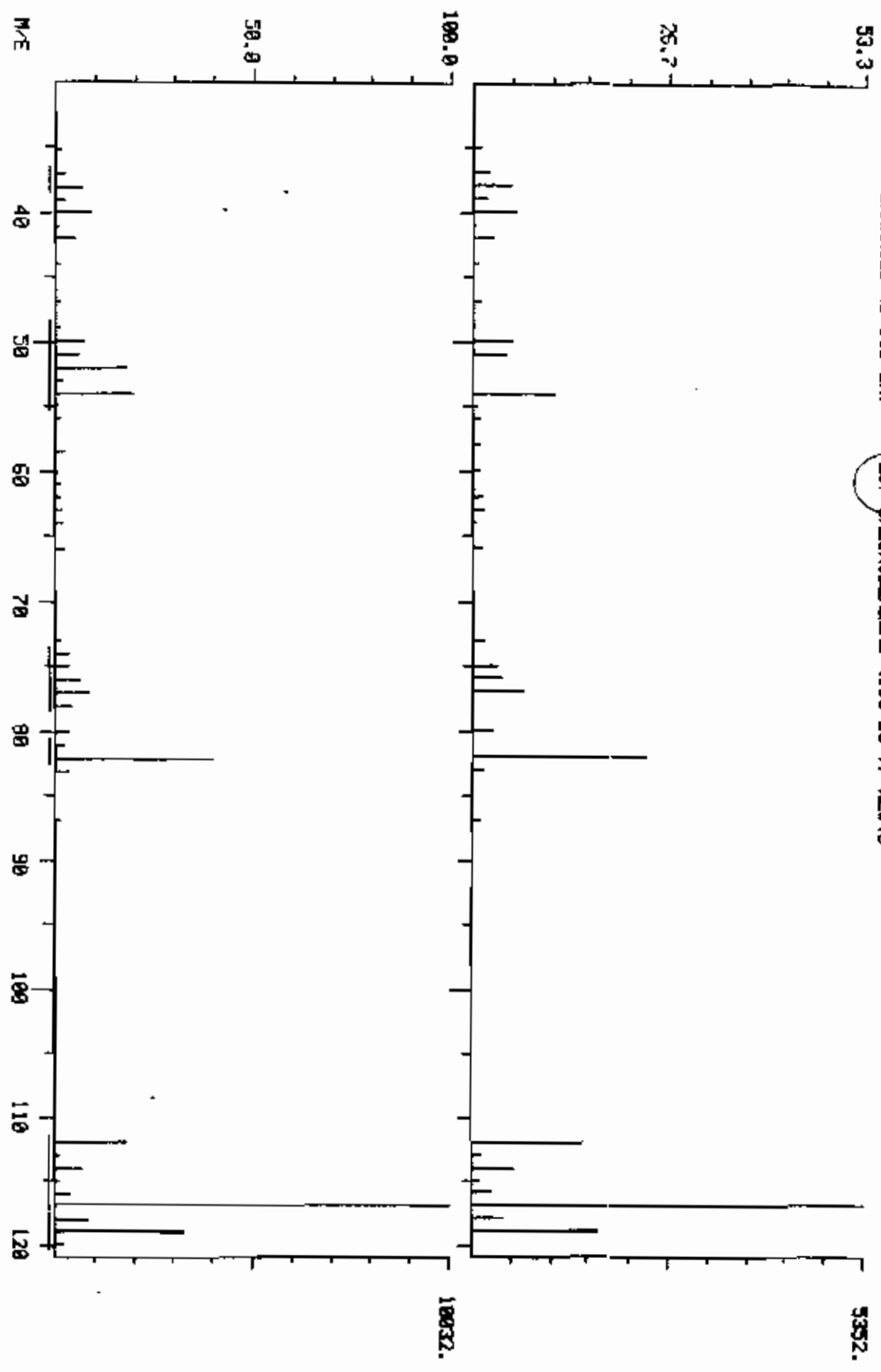
BASE M/E 117
R/C# 18751.

5/11/90
5/11/90

C6,H8,CL
1 HT1000
2 PK 112
4/22/90
11 45
11 222



DUAL MASS SPECTRUM
 05/16/90 11:13:00 + 9127 +
 SAMPLE 28000L CRSER 28124 CCR 337837 EPA# 73880112 RE ON 19
 ENHANCED (5 178 2H) 287 CHLOROBENZENE (188-96-7) LEADS
 COMPUTEN LABS
 DATA C2837837C19 #756 BASE M/E: 117 / 117
 R10: 19407 / 24697.



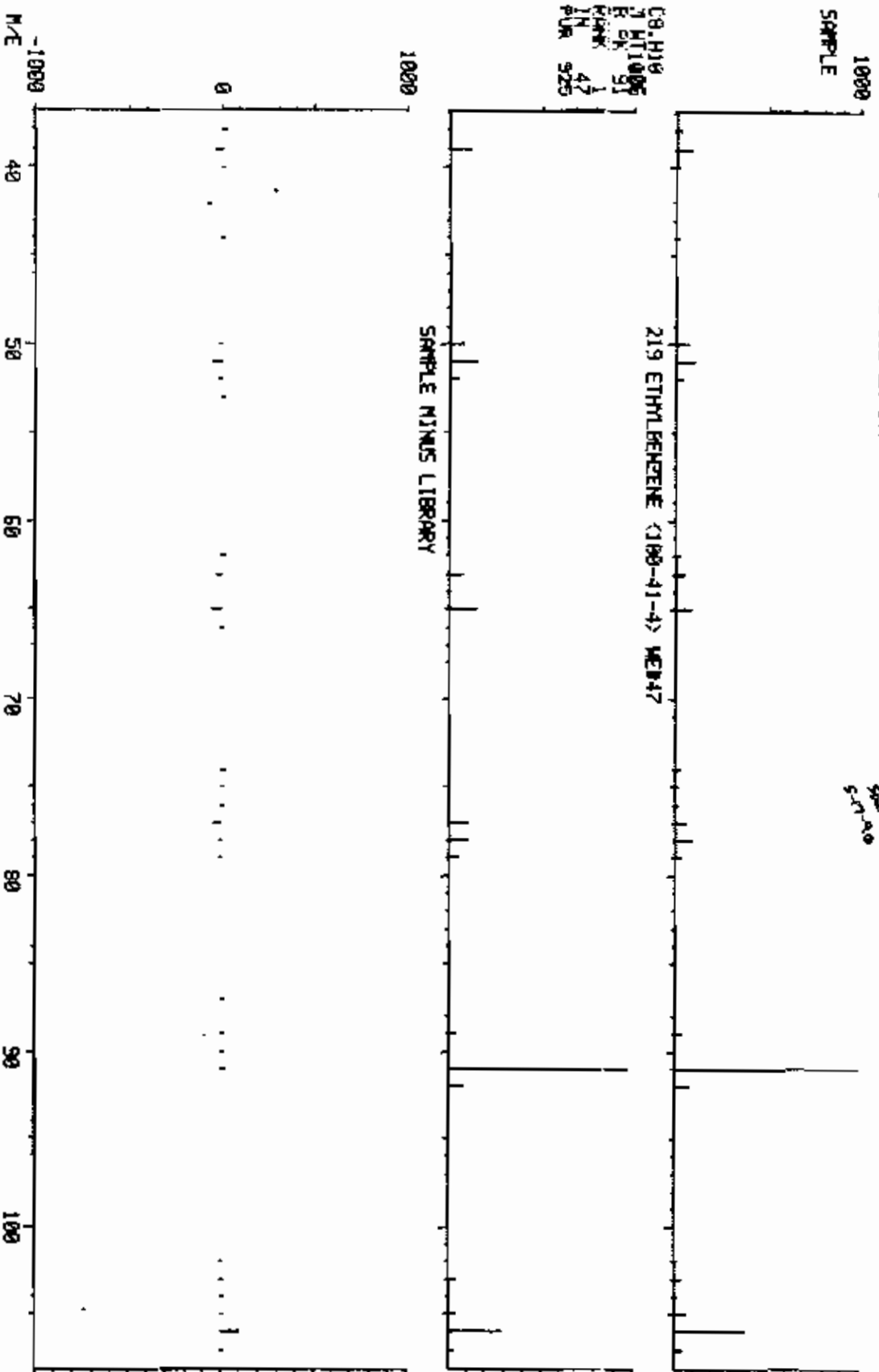
COMPUCHEM LABS

DATA1 C2R37837C19 # 783

BPSE M/E1 91
R1C1 46207

LIBRARY SEARCH
06/15/90 11131.00 + 51.47
SAMPLE1 Z008UL CASE# 20124 CCA 337837 EPA# 73800112 RE ON 19
ENHANCED (5 150 24 01)

Sample
Scan#

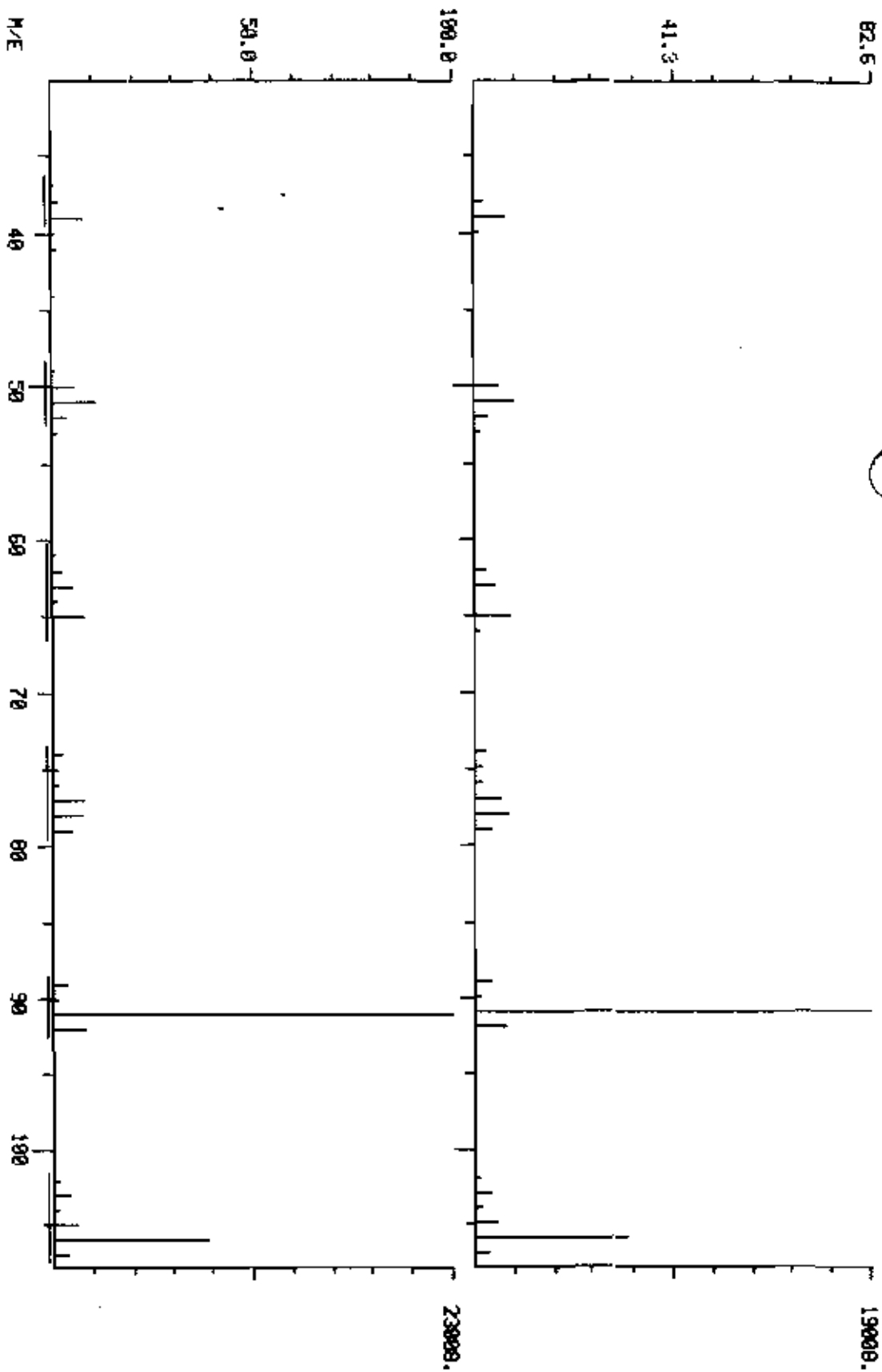


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/90 11:31:00 + 91.47
SAMPLE: 2008U CASE# 20124

20124 C08 307607 EP#0 73008112 RT ON 19
213 ETHYLBENZENE (100-41-4) 12.847

DATA: C2R37837C19 #783 BASE M/E: 91/ 91
R101 46207.1/ 55679.



COMPUCHEN LABS

DATA# C2K37837C19 # 802

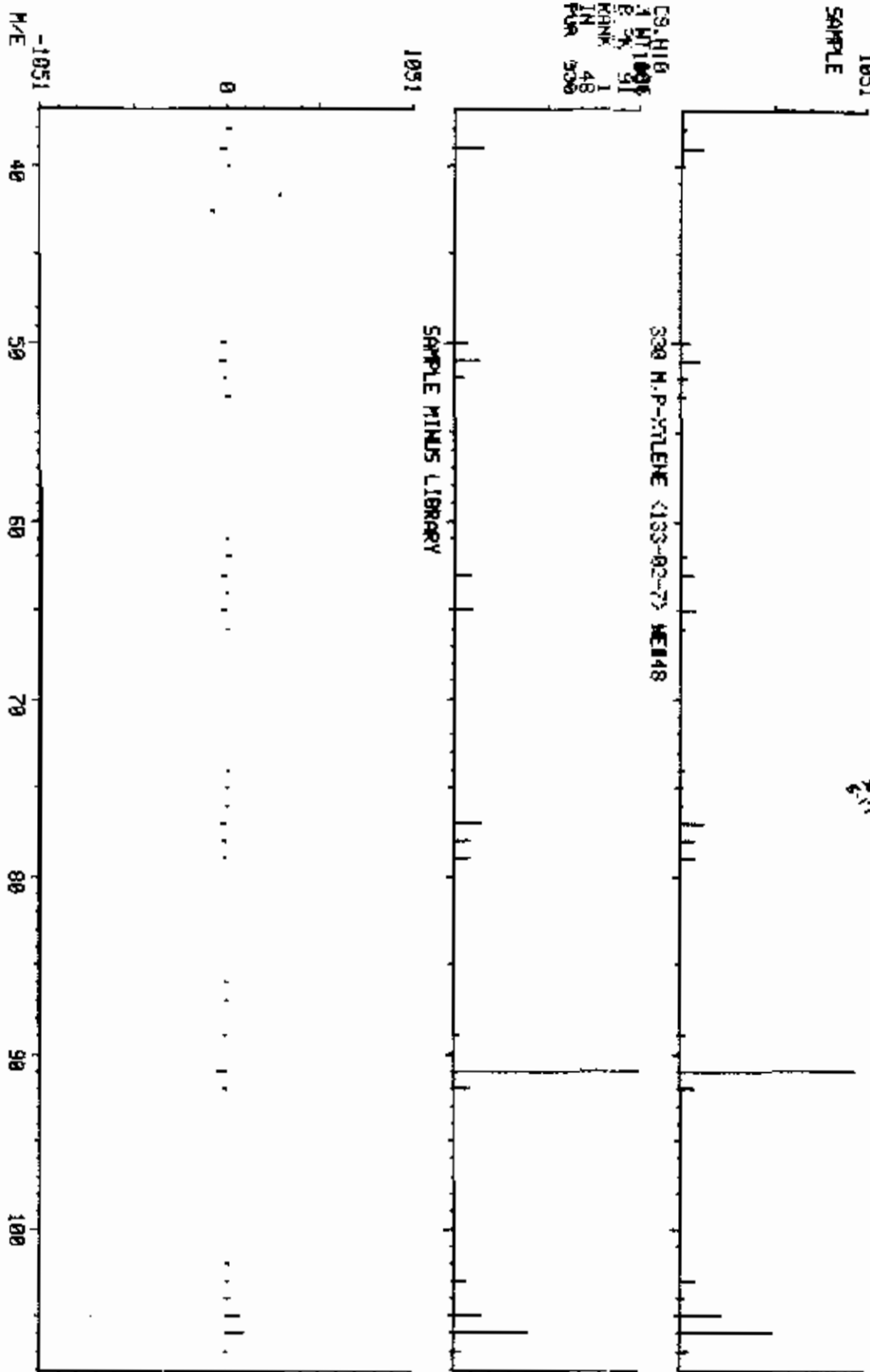
BASE M/E: 91
PIC# 143615

LIBRARY SEARCH
08/15/90 14:19:00 + 1a101
SAMPLE: 28000L CASE# 28124 CO# 337837 EPA# 73800112 BE' ON 19
ENHANCED (S 15B 2N 0T)

6/19/90

1051
SAMPLE

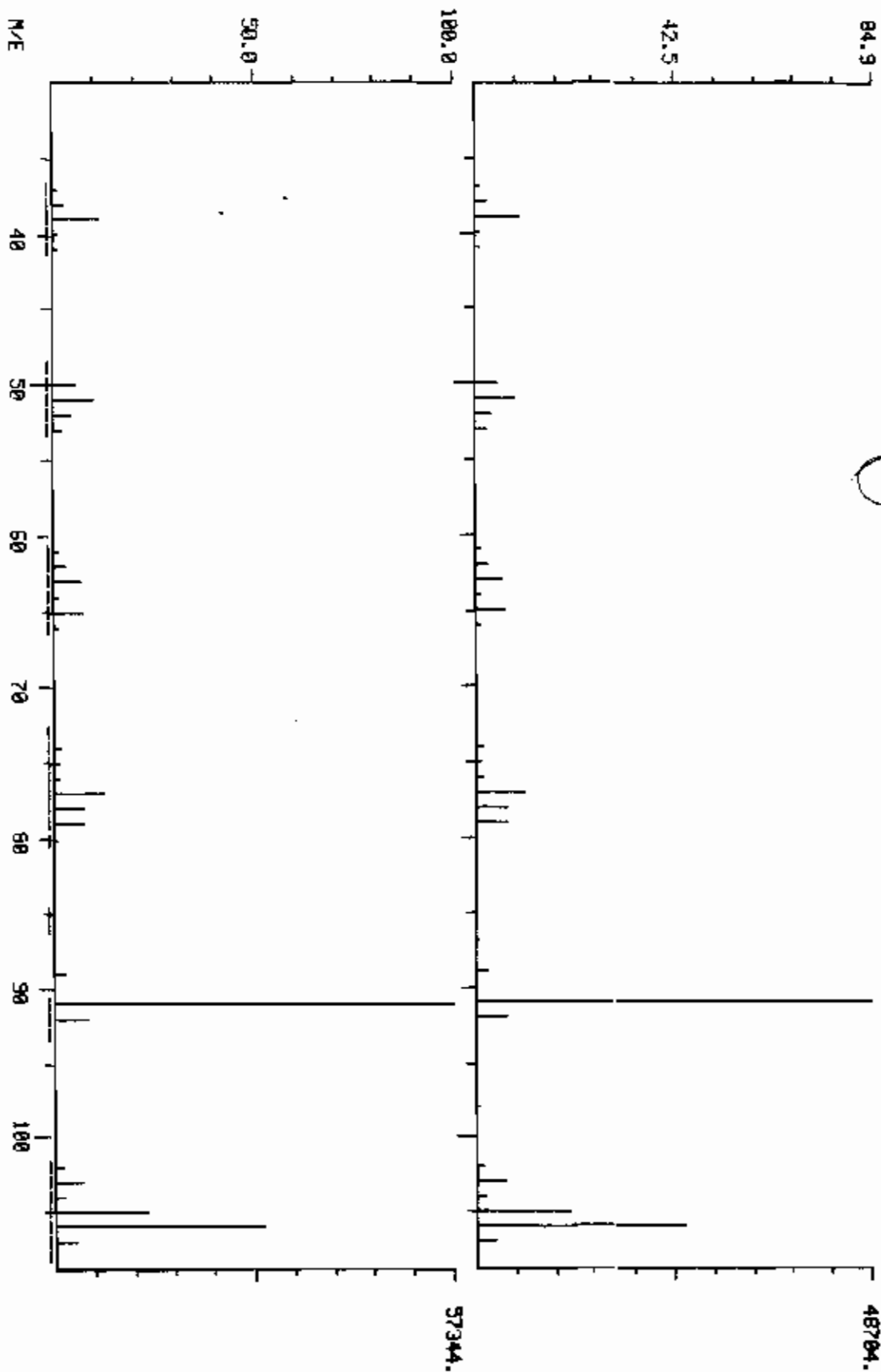
CS.H18
1 M1005
E 54 31
FRANK 1
IN 48
PWR 500



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/90 11:31:00 + 10.01
SAMPLE: 20800L CASE# 20176 CCM 337837 EPA# 7380112 RE ON 19
ENHANCED (S 1.93 ZN) 330 M,P-XYLENE (133-02-7) W2148

DATA: C2R37837C19 #802 BASE M/E: 91/ 91
502 3-11-90
PIC: 145175. / 159903.



LIBRARY SEARCH
08/16/98 11:31:00 + 10:43
SAMPLE 2000UL CASE# 20124 CC# 337837 EPM# 73008112 RE ON 19
EMPHANCED (S 158 24 9T)

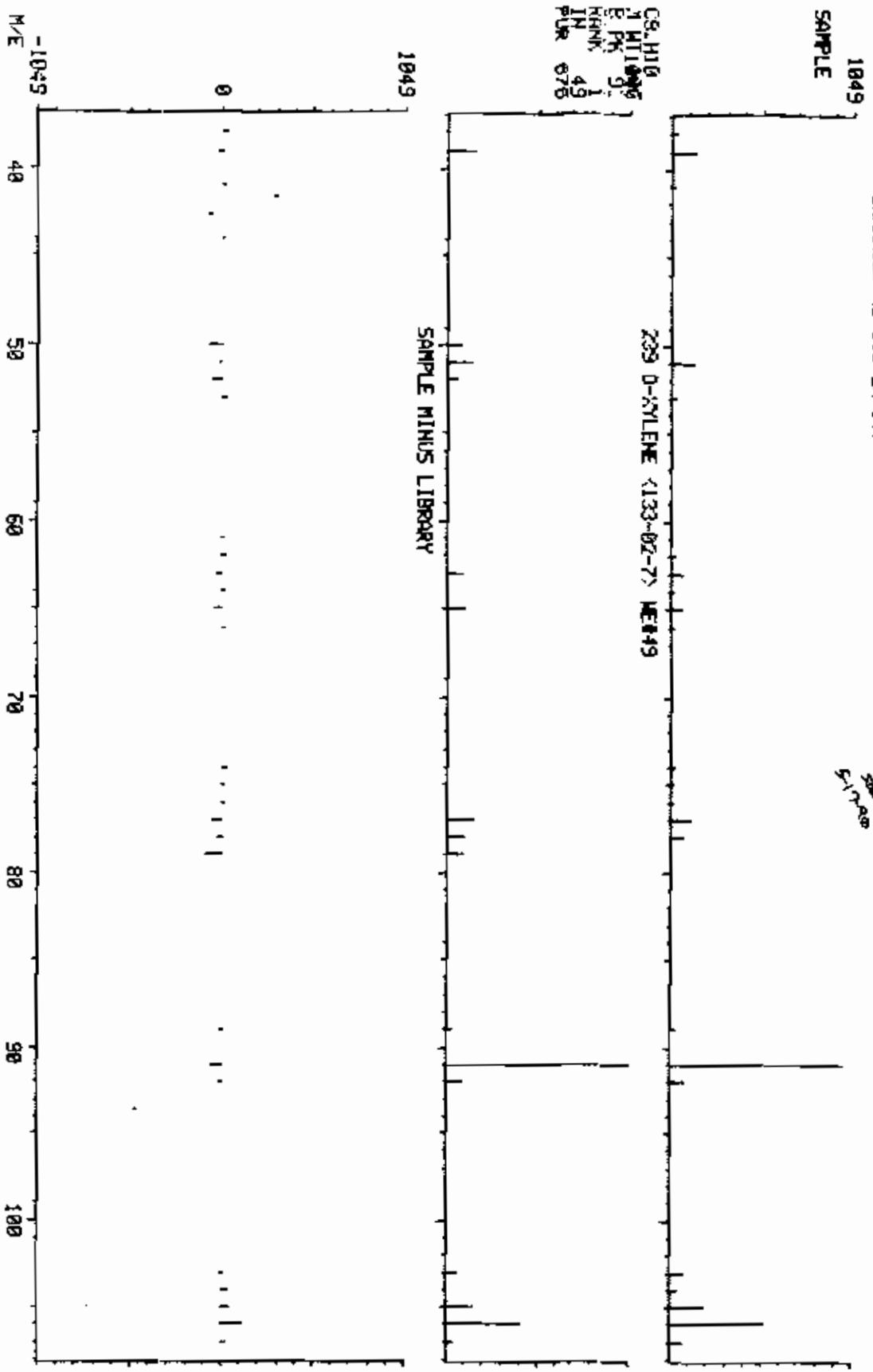
COMPUCHEM LABS

DATA: C2R37837C19 # 639

BASE M/E 91
R/C 21503.

sample
5-17-98

CG.H10
1 MILLIGRAMS
E.PK 9
KANK 49
IN 1
PUR 676



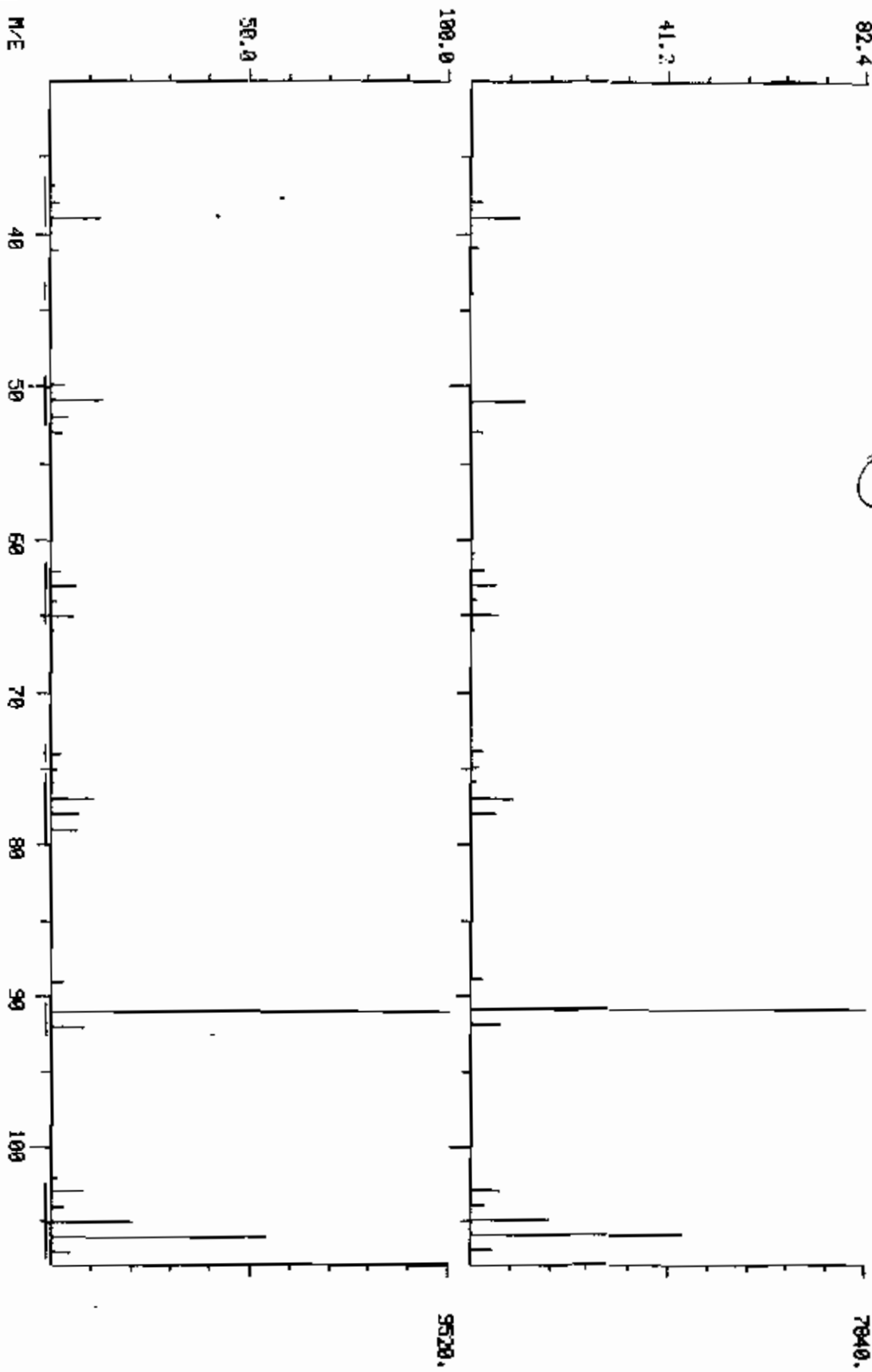
COMPUCHEM LABS

DATA: C2R97837C19 MS58

BASE N/E1 91 / 91
RIC1 21509. / 27231.

DUAL MASS SPECTRUM
05/16/99 1413.00 + 10.43
SAMPLE: 2000UL DASE# 20124 CCM 337837 EPA# 78800112 RE DN 19
ENHANCED (5 158 2M)

Speed 5-7-96
239 D-XYLENE (133-82-7) MS#49



Lab Instructions:

Receipt Date:

Case#: 20124

SAS/

CompuChem#: 337837E2

TCL GC/MS; VOA; WATER; EPA SW-2/88
5th Ed 8240

Sample Prep Code---000
Instrument Code---41299
Compound List-----499 459
Surrogate Std-----394
Internal Std-----036

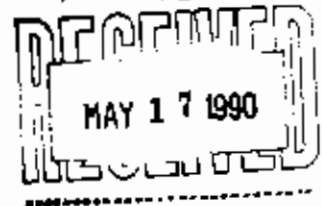
SDG/

EPA ID# 77800 117DE SPWLS-17-90

GC/MS Analysis WELL1

Amount Purged: [] 5.0 mL or [] Dilution 7000 uL / 5.0 mL

Internal Standard Volume Added 5 uL
Surrogate Standard Volume Added 5 uL
BFB Filename: BF 900515A19
Blank Filename: CA 900515B19
Standard Filename: CR 900515B17
Sample Filename: CR 37837E19



Analyst(s) Injection: 171A Work-up 171A

GC/MS Review

Condition Codes

DA

Entry Codes: OK, EA, ES, SM, JS, SL, SH, JA, DA

Non-entry Codes: IM, IL, SW, CT, CS, VC, VO, UP, PC, NR, IF, LA, DI, OT, SF, SI, CO, RN, DW

Extraneous Peak Search Results:

Number of Peaks Found: 5



Disposition

[✓] Complete

[] Reinject Neat

[] Dilute

Quality Assurance Notice(s):

Number of Notices Required: 1

Comments:

GC/MS Review ~~171A~~ Data 5/17/90 Auditor _____ Date ___/___/___

Report Integration Total # of Injections 3

Final Reportable Package(s): CR - C19 /

QA Comments:

Initials _____ Date ___/___/___

Final Review

Initials _____ Date ___/___/___

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	249	47500	50.0		
221	90	CHLOROMETHANE				BDL	25
231	62	VINYL CHLORIDE				BDL	25
220	94	BROMOMETHANE				BDL	25
209	64	CHLOROETHANE			7.6	19J	25
216	96	1,1-DICHLOROETHENE				BDL	12
254	76	CARBON DISULFIDE				BDL	12
252	43	ACETONE (2-PROPANONE)				BDL	25
248	114 I	1,4-DIFLUOROBENZENE (IS)	376	190000	50.0		
222	84	METHYLENE CHLORIDE			7.6	19 B	12
226	96	TRANS-1,2-DICHLOROETHENE				BDL	12
214	63	1,1-DICHLOROETHANE				BDL	12
257	43	VINYL ACETATE			8.4	210DL	25
237	96	CIS-1,2-DICHLOROETHENE				BDL	12
253	72	2-BUTANONE				BDL	25
211	83	CHLOROFORM				BDL	12
227	97	1,1,1-TRICHLOROETHANE				BDL	12
206	117	CARBON TETRACHLORIDE				BDL	12
203	78	BENZENE			31.6	79	12
215	62	1,2-DICHLOROETHANE				BDL	12
270	117 I	DS-CHLORO BENZENE (IS)	793	136000	50.0		
229	130	TRICHLOROETHENE				BDL	12
217	63	1,2-DICHLOROPROPANE				BDL	12
212	83	BROMODICHLOROMETHANE				BDL	12
218	79	CIS-1,3-DICHLOROPROPENE				BDL	12
256	43	4-METHYL-2-PENTANONE			4.2	60L50+	25
225	92	TOLUENE			11.4	28	12
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	12
228	97	1,1,2-TRICHLOROETHANE				BDL	12
224	164	TETRACHLOROETHENE				BDL	12
255	43	2-HEXANONE				BDL	25
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	12
207	112	CHLORO BENZENE			7.2	18	12
219	106	ETHYL BENZENE			68.6	170	12
330	106	M, P-XYLENE			164.0	410	12
239	106	O-XYLENE			33.1	83	12
251	104	STYRENE				BDL	12
205	173	BROMOFORM				BDL	12
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	12
258	65 B	D4-1,2-DICHLOROETHANE WE#57			49.7	99. X	
247	95 B	BROMOFLUOROBENZENE			49.1	98. X	
233	98 B	D8-TOLUENE WE#59 SS#2			46.0	92. X	
289	106	XYLENES (TOTAL)			197.0	490	12

CORRECTED/REVIEWED BY

SDWagner
(CC/MS DATA REVIEWER)

DATE

5-17-90

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLORDETHENE (TOTAL)				BDL	25
CHECKSUMS:							
	3979.		1374	373900.		832.9	1340.

CORRECTED/REVIEWED BY SDW/anna
(GC/MS DATA) REVIEWERDATE 5-17-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	49.7	50.0	99.	76-114	X	
41	247	BROMOFLUOROBENZENE	49.1	50.0	98.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	46.0	50.0	92.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = \frac{5.000 \text{ ML}}{2.000 \text{ (ML)}}$$

$$\frac{5000 \text{ UL}}{2000. \text{ (UL)}} = 2.50 = \frac{5.000 \text{ ML}}{2.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY SDI/Donna
(GC/MS DATA REVIEWER)

DATE 5-17-90

QUALITY ASSURANCE NOTICE

CC #: 357997

BLANK ID: 108900010819

CASE #: 20124

CompuChem offers various types of analytical services, one of which is characterized as "Commercial Target Compound List (TCL)". This service exactly mimics the analytical requirements of the EPA's Contract Laboratory Program (CLP).

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The only exception to our policy is made when the volatile analysis or extraction holding times are in jeopardy of being exceeded, then the CLP requirements must be met.

Analysis of the Method Blank (and /or Instrument Blank) associated with the above sample indicated the following common laboratory solvents or phthalates were present at the indicated levels:

common laboratory artifact	blank concentration	units
<u>methylene chloride</u>	<u>3</u>	<u>ug/L</u>
_____	_____	_____
_____	_____	_____

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

This notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
 Manager, Quality Assurance

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800113

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337840

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037B40B19

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	8	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/57 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7380011J

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337840

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037840B19

Level: (low/med) LOW Date Received: 05/09/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	O
-----	-----	-----	-----	-----

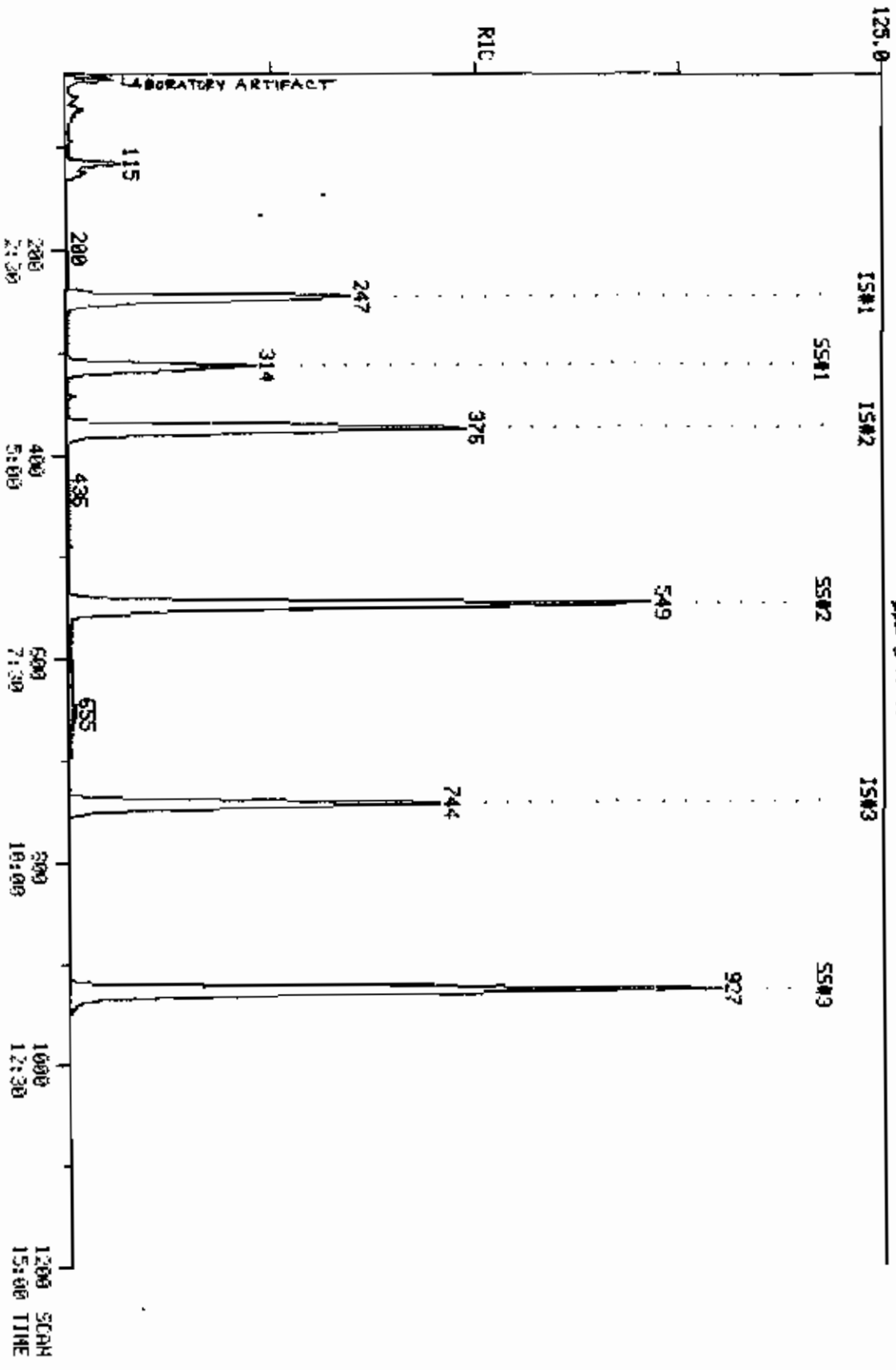
FORM I VOA-TIC

1/87 Rev.

RIC
 05/15/98 23:45:00
 SAMPLE: 3ML C08337940 C5#20124 ID#738804H 04 13
 COND5.1
 113
 9-1-90

COMPUCHEM LABS
 COMPUCHEM DATA CHECK/REVIEW/SCANS 29 TO 1200
 113
 9/15/98

82400.



QUANTITATION REPORT FILE: CN037B40B151A ¹¹³ ^{5/15/90}
 DATA: CN037B40B15.T1
 05/15/90 23:45:00
 SAMPLE: SML CC#337B40 / CB#20124 / ID#739004A DN 19
 COND6.:
 SUBMITTED BY: 19 ANALYST: 1095 ^{5/15/90}

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
 RESP.FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IB) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IB) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE, 1,2,4- <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	*233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	247	3:05	1	1.000	A 88	40602.	50.000 UG/L	15.74
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	95	1:11	1	0.389	A BB	1817.	6.666 UG/L	2.10 ND
9	114	375	4:41	9	1.000	A BB	156814.	50.000 UG/L	13.74
10	64	116	1:27	1	0.470	A BV	7520.	7.967 UG/L	2.51 ^{UG S}
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	744	9:18	21	1.000	A BB	116500.	50.000 UG/L	13.74
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	63	NOT FOUND							
40	65	314	3:55	1	1.271	A BB	56197.	52.539 UG/L	16.54
41	95	927	11:35	21	1.246	A BB	70137.	50.492 UG/L	15.90
42	98	548	6:51	21	0.737	A BB	178310.	49.950 UG/L	15.73

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27		10.000			50.00		0.400	
3	0:33		10.000			50.00		0.503	
4	0:37		10.000			50.00		0.813	
5	0:40		10.000			50.00		0.918	
6	1:03		5.000			50.00		1.664	
7	1:07		5.000			50.00		4.561	
8	1:12	0.99	10.000	0.04	6.67	50.00	0.045	0.336	0.13
9	4:43	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:28	0.99	5.000	0.09	7.97	50.00	0.185	1.162	0.16
11	1:40		5.000			50.00		1.149	
12	2:07		5.000			50.00		1.329	
13	2:20		10.000			50.00		0.332	
14	2:49		5.000			50.00		1.128	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:01		10.000			50.00		0.067	
16	3:21		5.000			50.00		2.050	
17	3:22		5.000			50.00		0.546	
18	3:34		5.000			50.00		0.634	
19	3:55		5.000			50.00		0.592	
20	4:04		5.000			50.00		1.415	
21	9:22	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.515	
23	5:18		5.000			50.00		0.228	
24	5:55		5.000			50.00		0.767	
25	6:38		5.000			50.00		0.698	
26	7:04		15.000			50.00		0.414	
27	7:01		5.000			50.00		0.986	
28	7:41		5.000			50.00		0.427	
29	7:55		5.000			50.00		0.450	
30	7:51		5.000			50.00		0.814	
31	8:34		15.000			50.00		0.200	
32	8:29		5.000			50.00		0.749	
33	9:28		5.000			50.00		0.829	
34	9:45		5.000			50.00		0.391	
35	10:00		5.000			50.00		0.556	
36	10:41		5.000			50.00		0.521	
37	10:46		5.000			50.00		0.961	
38	11:01		5.000			50.00		0.618	
39	12:18		5.000			50.00		0.384	
40	3:57	0.99	5.000	0.25	52.54	50.00	1.384	1.317	1.05
41	11:40	0.99	5.000	0.25	50.49	50.00	0.602	0.596	1.01
42	6:55	0.99	5.000	0.15	49.93	50.00	1.531	1.532	1.00

LIBRARY SEARCH
 08/15/90 20:48:00 + 1:27
 SAMPLE: SML C0837848 C5#20124 10#78888M ON 19
 ENHANCED (5:15B 2H 8T)

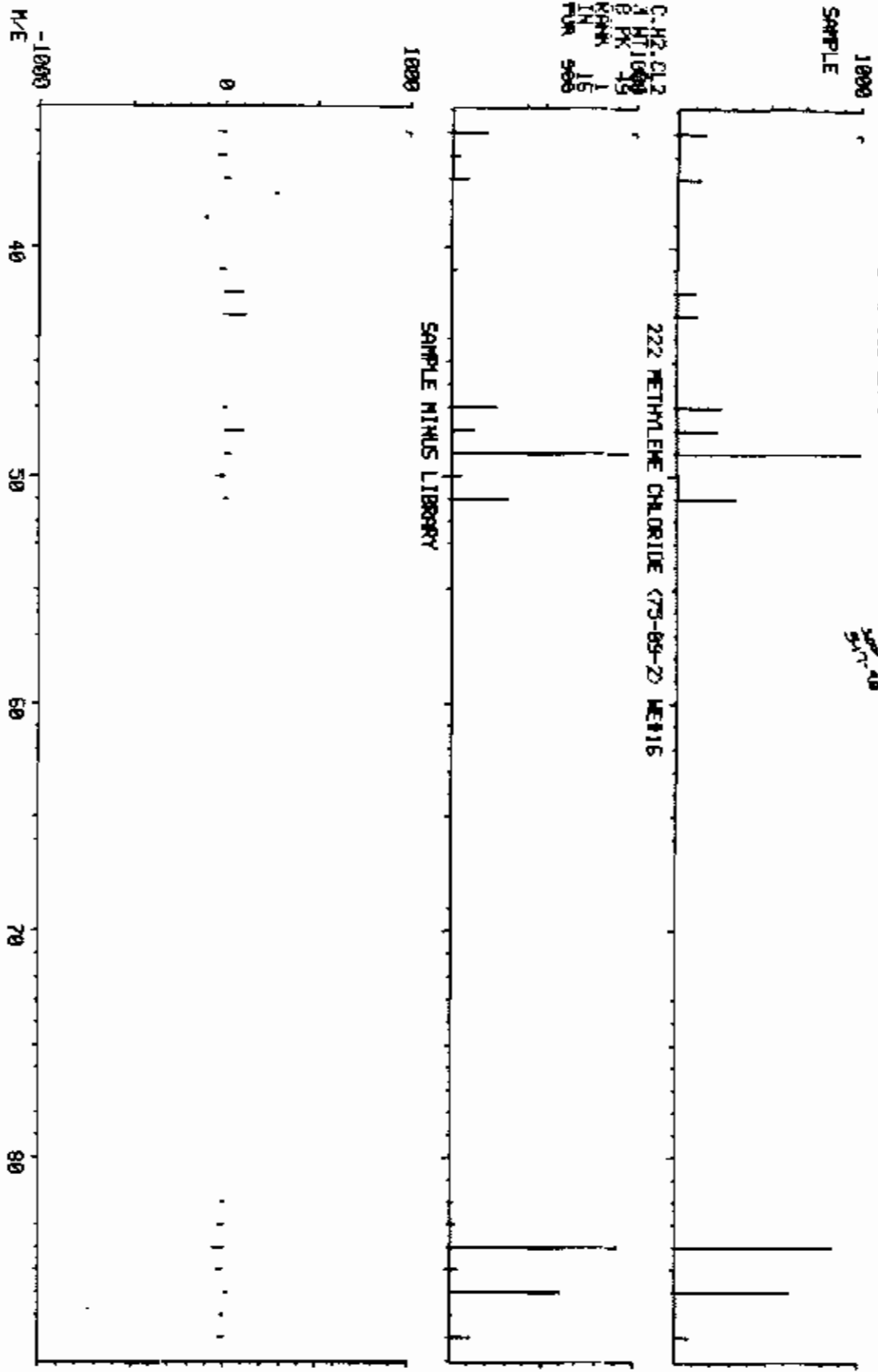
COMPUCHEN LABS

DATA: C0837848J15 113
 116

BASE H/E: 49
 RIC: 4223

*300-40
 511-40*

C-12: 0.12
 A HT: 0.00
 B PK: 15
 KPAK: 15
 TN: 15
 FOR: 999

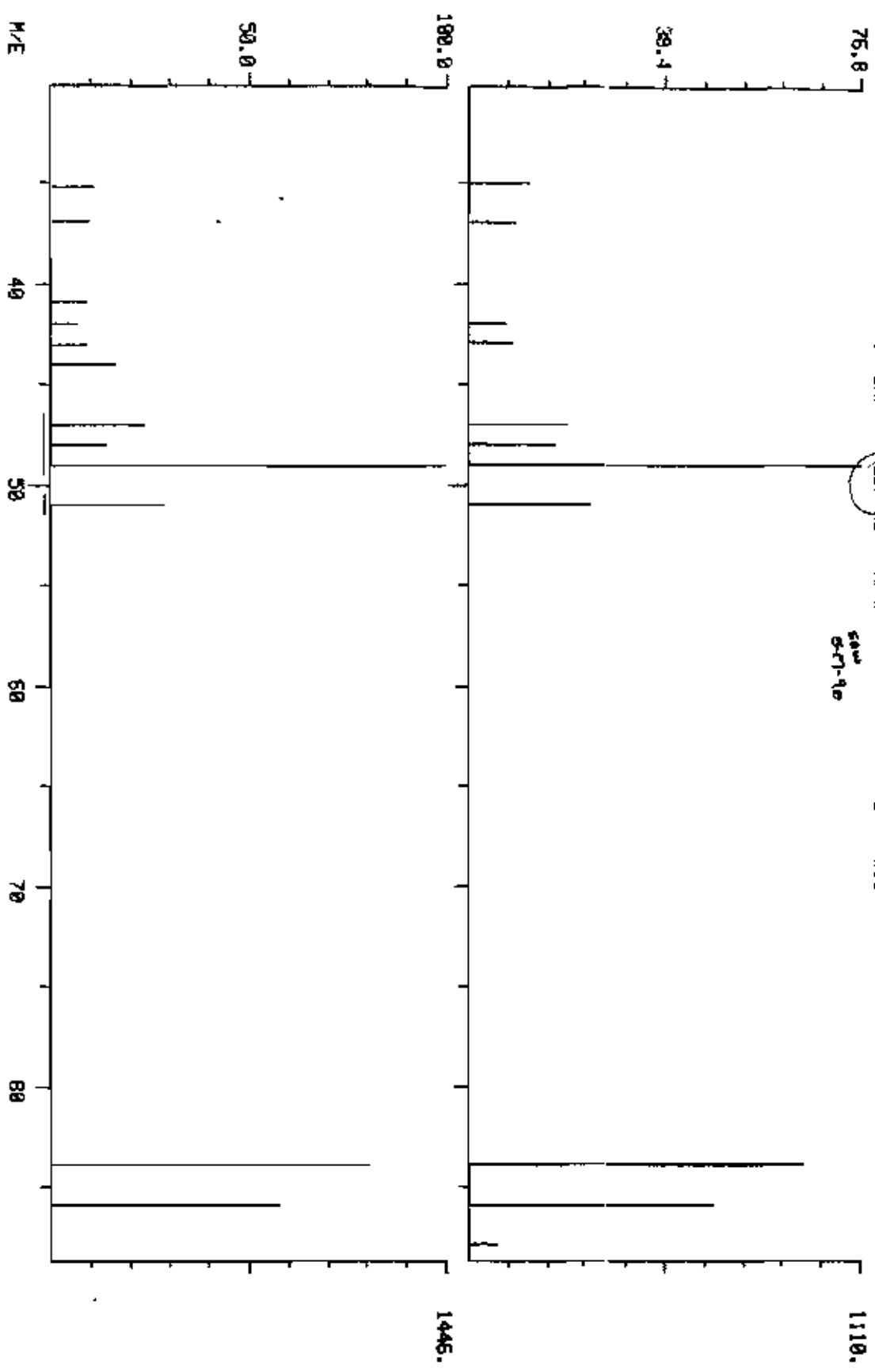


DUAL MASS SPECTRUM
09/16/99 23:45:00 + 1.27
SAMPLE: SML CC#337848 CS#20124 ID#73888841 ON 19
ENHANCED (5 158 2N) 222 METHYLENE CHLORIDE (75-09-2) #E#16

COMPUchem LABS

DATE: 09/16/99

19 *Handwritten*
BASE M/E: 49 ✓ 49
R/C: 4222 ✓ 6207



RECEIPT DATE: 05/09/90 CASE#: 20124

VOA
GC/MS WORKSHEET COMPUCHEM#: 337840

JC] JJC] DC] (:1)
EJC] JJC] D2C] (:1)

GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code---- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 16

=====

SAMPLE ID#: 73900113

=====

GC/MS ANALYSIS

Amount Purged: [5] 5 ml or [1] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BP200515.A10 Disk ()
Blank Filename C:\BP200515.A10 Disk ()
Standard Filename C:\BP200515.A10 Disk ()
Sample Filename C:\337840.A10 Disk ()

ANALYST(S): Injection _____ Work-up 1171

=====

GC/MS REVIEW

CONDITION
CODE

OK

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 1

[] Reinject Neat

Quality Assurance Notice(s):

Notices Required 2



[] Dilute (:1)

COMMENTS:

GC/MS Review ~~Signature~~ Date 5/17/90 Auditor _____ Date ___/___/___

=====

REPORT INTEGRATION

Final Reportable Package(s): CW - B19 / _____ Total # of Injections: 1

=====

QA COMMENTS:

Initials _____ Date ___/___/___

=====

FINAL REVIEW:

Initials _____ Date ___/___/___

AC0780

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	247	40600	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			6.7	BDL-7d	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	375	137000	50.0		
222	84	METHYLENE CHLORIDE			8.0	8 B	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (IS)	744	116000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	79	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
223	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
225	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 B	D4-1,2-DICHLOROETHANE WE#57			52.5	105. %	
247	95 B	BROMOFLUOROBENZENE			50.5	101. %	
233	98 B	D8-TOLUENE WE#59 SB#2			50.0	100. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDWagner
 (CC/MS DATA REVIEWER)

DATE 5-17-90

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
	3979.		1366	313600.	317.7		15.

CORRECTED/REVIEWED BY SDURBAK
(CC/MS DATA REVIEWER)DATE 5-17-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	238	D4-1,2-DICHLOROETHANE WE#57	52.5	50.0	105.	76-114	X	
41	247	BROMOFLUOROBENZENE	50.5	50.0	101.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	50.0	50.0	100.	88-110	X	

* ADVISORY SURROGATE ONLY
 ++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY SNW/one
 (GC/MS DATA REVIEWER)
 DATE 5-17-90

QUALITY ASSURANCE NOTICE

CC # 287940

BLANK ID # 0290015419

CASE # 28124

CompuChem offers various types of analytical services, one of which is characterized as "Commercial Target Compound List (TCL)". This service exactly mimics the analytical requirements of the EPA's Contract Laboratory Program (CLP).

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The only exception to our policy is made when the volatile analysis or extraction holding times are in jeopardy of being exceeded, then the CLP requirements must be met.

Analysis of the Method Blank (and/or Instrument Blank) associated with the above sample indicated the following common laboratory solvents or phthalates were present at the indicated levels:

common laboratory artifact	blank concentration	units
<u>methylene chloride</u>	<u>3</u>	<u>µg/L</u>
_____	_____	_____
_____	_____	_____

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

This notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
 Manager, Quality Assurance

QUALITY ASSURANCE NOTICE
CompuChem # 337940
Instrument Blank : 00000149
Client ID # 7390013
Case 20184

The early-eluting peak on the RIC of the volatile fraction at scan # 35 is an instrument artifact believed to be a mixture of water and various atmospheric gases. This peak is usually present at less than 10% of the nearest-eluting internal standard peak height, although it may exceed this height under certain instrument conditions.

Periodically, a number of maintenance procedures are performed in an effort to reduce the intensity of this artifact. These procedures may include:

- trap replacement
- reconditioning and/or replacing column
- replacing six-port valve in Tekmar
- cleaning of the separator
- cleaning or replacing source
- replacing lines in Tekmar

In many cases, even after maintenance, the artifact peak remains at a height greater than 10% of the nearest internal standard. Since the analytical quality of these data have not been compromised, we are reporting this analysis with reference to this qualifier. The artifact is not included as part of the Library Search requirements for the associated samples.

Robert J. Whitehead
Manager, Quality Assurance

DANISU
E70917

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001TB1

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: Q1

Matrix: (soil/water) WATER Lab Sample ID: 317377

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037377C19

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	2	BJ
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001TB1

Lab Name: COMPUCHEM LABS Contract: 255501
Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
Matrix: (soil/water) WATER Lab Sample ID: 337377
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037377G19
Level: (low/med) LOW Date Received: 05/08/90
& Moisture: not dec. _____ Date Analyzed: 05/15/90
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

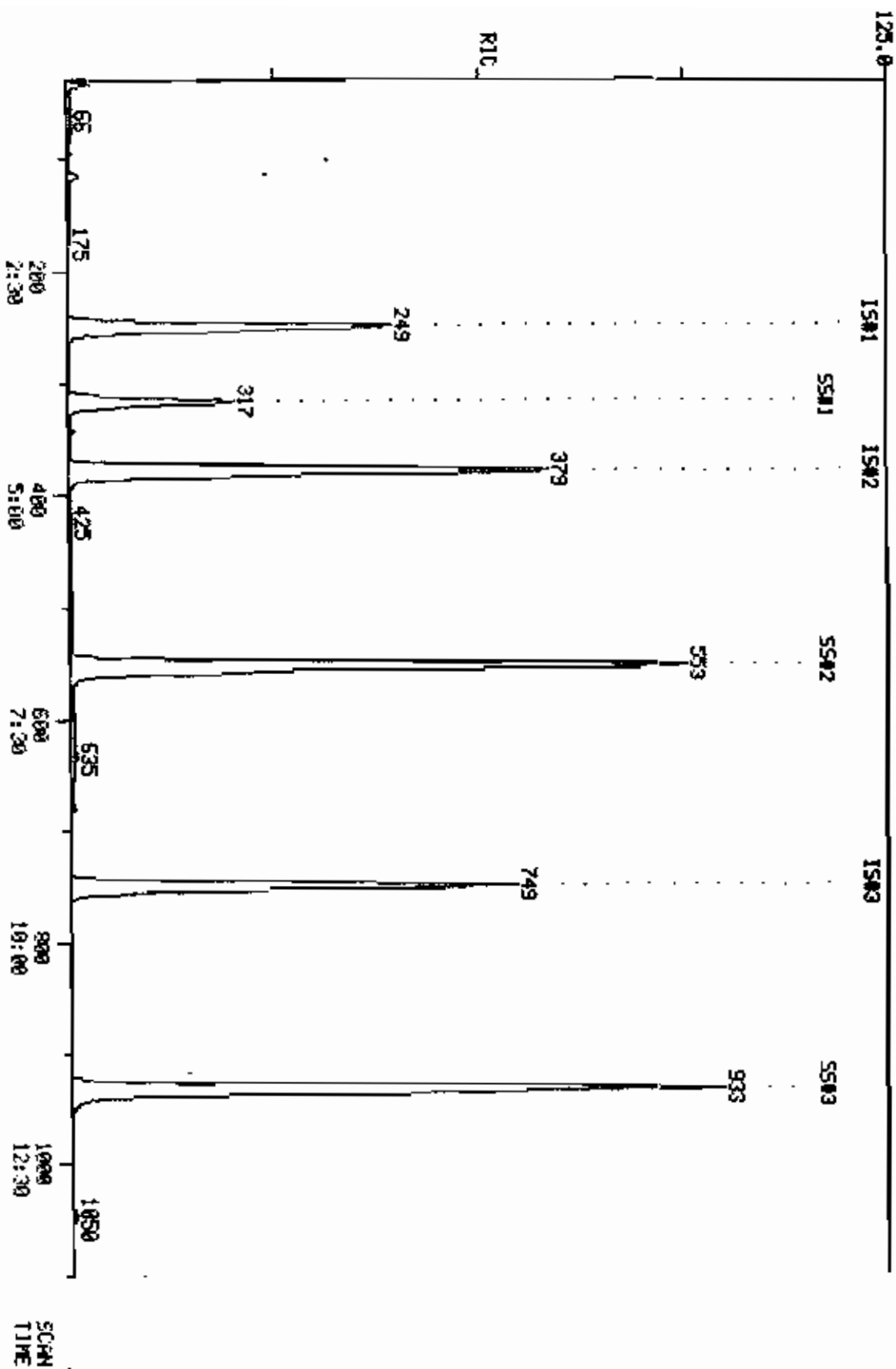
1/87 Rev.

CONQUICHEN LABS

CONQUICHEN DATA C:\GC\7377\19 SCANS 30 TO 1100

RIC
05/15/90 6:51:00
SAMPLE 9ML C06337377 C5H20124 104738801T01
COND5.1

79440.



QUANTITATION REPORT FILE: CN037377C19
 DATA: CN037377C19.T1
 05/15/90 6:51:00
 SAMPLE: 5ML CC#337377 CS#20124 ID#738001TB1
 CONDS.:
 SUBMITTED BY: 19 ANALYST: 1095

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
 RESP.FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (16) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 O5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	*233 O6-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (H3HT)	AMOUNT	XTOT
1	128	249	3:07	1	1.000	A 88	44052.	30.000 UG/L	17.06
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	379	4:44	9	1.000	A BB	181306.	50.000 UG/L	17.06
10	84	116	1:27	1	0.466	A BB	1406.	1.821 UG/L	0.62
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	749	9:22	21	1.000	A BB	126056.	50.000 UG/L	17.06
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	317	3:58	1	1.273	A BB	49902.	45.220 UG/L	15.43
41	95	933	11:40	21	1.246	A BB	71040.	47.885 UG/L	16.34
42	98	953	6:55	21	0.738	A BB	181056.	48.267 UG/L	16.47

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39		10.000			50.00		0.751	
6	1:03		5.000			50.00		1.389	
7	1:07		5.000			50.00		3.616	
8	1:11		10.000			50.00		0.259	
9	4:45	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:27	1.00	5.000	0.09	1.82	50.00	0.032	0.876	0.04
11	1:40		5.000			50.00		0.941	
12	2:05		5.000			50.00		1.103	
13	2:19		10.000			50.00		0.255	
14	2:49		5.000			50.00		0.937	

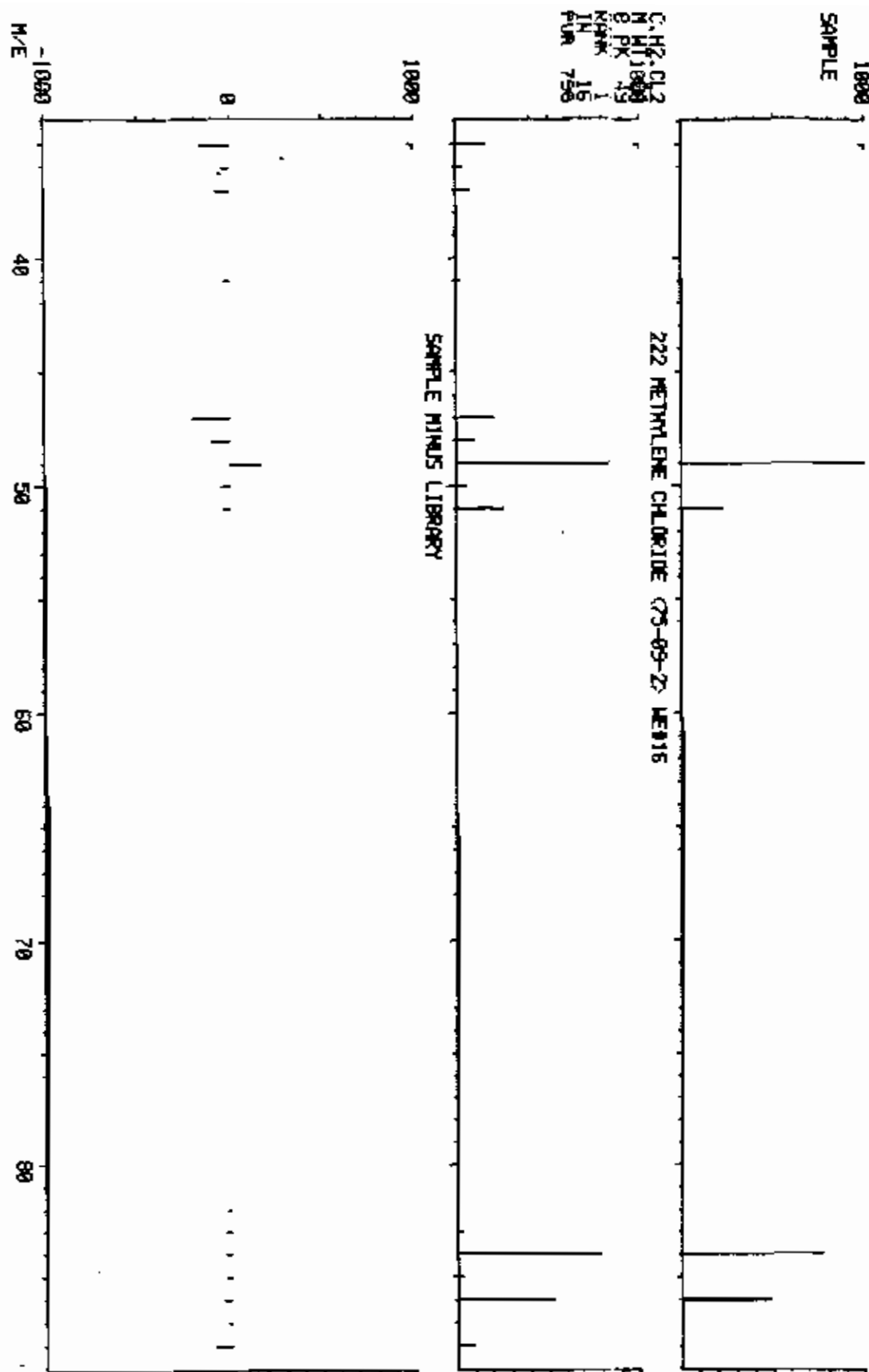
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	3:00		10.000			50.00		0.039	
16	3:21		5.000			50.00		1.748	
17	3:22		5.000			50.00		0.472	
18	3:36		5.000			50.00		0.560	
19	3:55		5.000			50.00		0.498	
20	4:04		5.000			50.00		1.236	
21	9:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:58		5.000			50.00		0.455	
23	5:19		5.000			50.00		0.207	
24	5:55		5.000			50.00		0.602	
25	6:39		5.000			50.00		0.596	
26	7:06		15.000			50.00		0.362	
27	7:03		5.000			50.00		0.918	
28	7:42		5.000			50.00		0.389	
29	7:57		5.000			50.00		0.388	
30	7:52		5.000			50.00		0.710	
31	8:36		15.000			50.00		0.116	
32	8:31		5.000			50.00		0.465	
33	9:26		5.000			50.00		0.746	
34	9:46		5.000			50.00		0.357	
35	10:01		5.000			50.00		0.483	
36	10:42		5.000			50.00		0.493	
37	10:47		5.000			50.00		0.826	
38	11:02		5.000			50.00		0.477	
39	12:20		5.000			50.00		0.321	
40	3:58	1.00	5.000	0.25	45.27	50.00	1.133	1.293	0.90
41	11:42	1.00	5.000	0.25	47.88	50.00	0.564	0.588	0.96
42	6:57	0.99	5.000	0.15	48.27	50.00	1.436	1.488	0.97

COMPUCHEN LABS

DATA: CH037377C19 # 116

BASE M/E: 49
RIC: 922.

LIBRARY SEARCH
06/18/90 6:51:00 + 1:27
SAMPLE: 9ML CC037377 CS#20124 ID#7388017B1
SEARCHED (5 128 24 87)

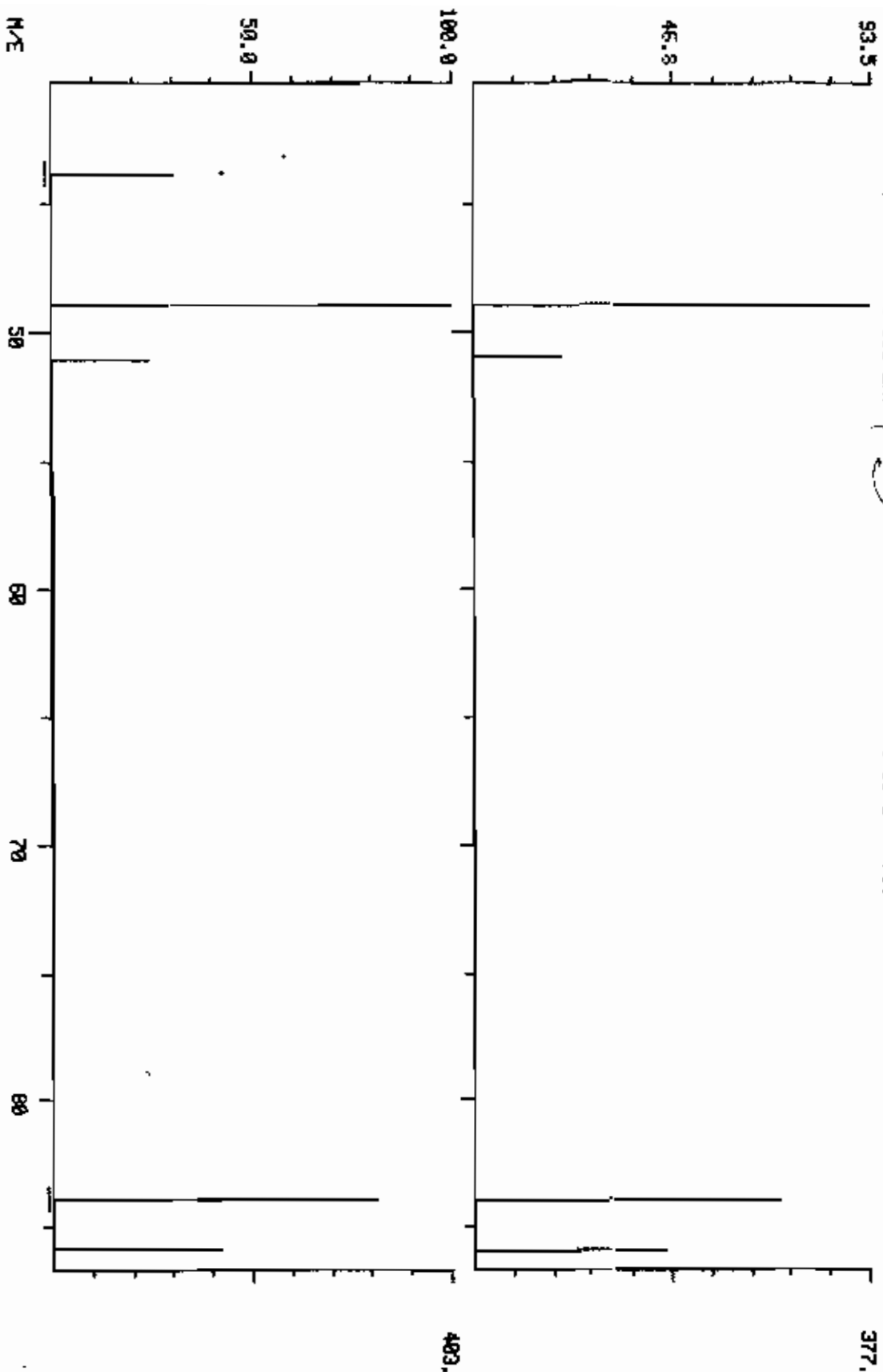


COMPUCHER LABS

DATA: CH037377C19 #116

BASE M/E: 49/ 49
R10: 902. ✓ 1119.

DUAL MASS SPECTRUM
08/18/90 5:51:00 + 1:27
SAMPLE: MIL CC0307377 CS408124 1047300017B1
ENRICHED (5 158 2N) 222 METHYLENE CHLORIDE (75-09-2) #116



LAB INSTRUCTIONS:

TRIP BLANK/CAUTION LOW VOLUME! ONLY 1.40 ML VOA
CASE#RA090 SDG# 0507

PPS# 1

RECEIPT DATE: 05/08/90 CASE#: 20124

VOA
GC/MS WORKSHEET COMPUTCHEM# 337377

JC J JJC J DC J C :13
2JC J J4C J D2C J C :13

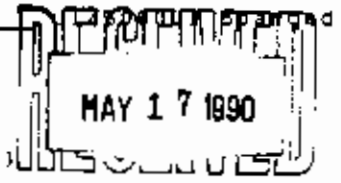
GC/MS: TCL VOA; WATER, 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code--- ~~309412~~
Compound List----- ~~459-493~~
Surrogate Std----- 394
Internal Std----- 36

===== SAMPLE ID#: 738001TB1 =====

GC/MS ANALYSIS

Amount Purged: [] 5 ml or [] Dilution _____
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF000515.C19 Disk ()
Blank Filename C:\B000515.C19 Disk ()
Standard Filename C:\000519.C19 Disk ()
Sample Filename C:\037377.C19 Disk ()



ANALYST(S): Injection J. B. Jones Work-up M. J. Jones

GC/MS REVIEW

CONDITION CODE

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 0 [] Reinject Neat

Quality Assurance Notice(s):

Notices Required 1 [] Dilute (:1)

COMMENTS:

#GC/MS Review DEG Date 5/16/90 Auditor _____ Date ____/____/____

REPORT INTEGRATION

Final Reportable Package(s): CAD-C19 / Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC0780

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	249	44100	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	379	181000	50.0		
222	84	METHYLENE CHLORIDE			1.8	2J?	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	749	126000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	79	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	93	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			45.2	90. X	
247	95 S	BROMOFLUOROBENZENE			47.9	96. X	
233	98 S	D8-TOLUENE WE#59 SS#2			48.3	97. X	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

Cic J. Di-
(QC/MS DATA REVIEWER)

DATE

5-16-90

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUM:							
	3979.		1377	351100.	293.2		2.

CORRECTED/REVIEWED BY

OKH

(GC/MS DATA REVIEWER)

DATE

5-16-90

QUALITY ASSURANCE NOTICE
CompuChem # 37277
Blank ID # CR960515C19
Case 2024

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8242" and "Semivolatile Analysis by GC/MS--Method 8270." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compounds with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/kg; acetone may not exceed 50 ug/kg. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
Manager, Quality Assurance

C41295
871026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001TB2

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337841
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN017841B19
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analysed: 05/18/90
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	1	BJ
67-64-1	-----Acetone	15	B
75-15-0	-----Carbon Disulfide	5	U
75-15-4	-----1,1-Dichloroethane	5	U
75-14-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethane (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethane	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethane	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001TB2

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337841
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN037841B12
 Level: (low/med) LOW Date Received: 05/09/90
 % Moisture: not dec. _____ Date Analyzed: 05/18/90
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICe found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

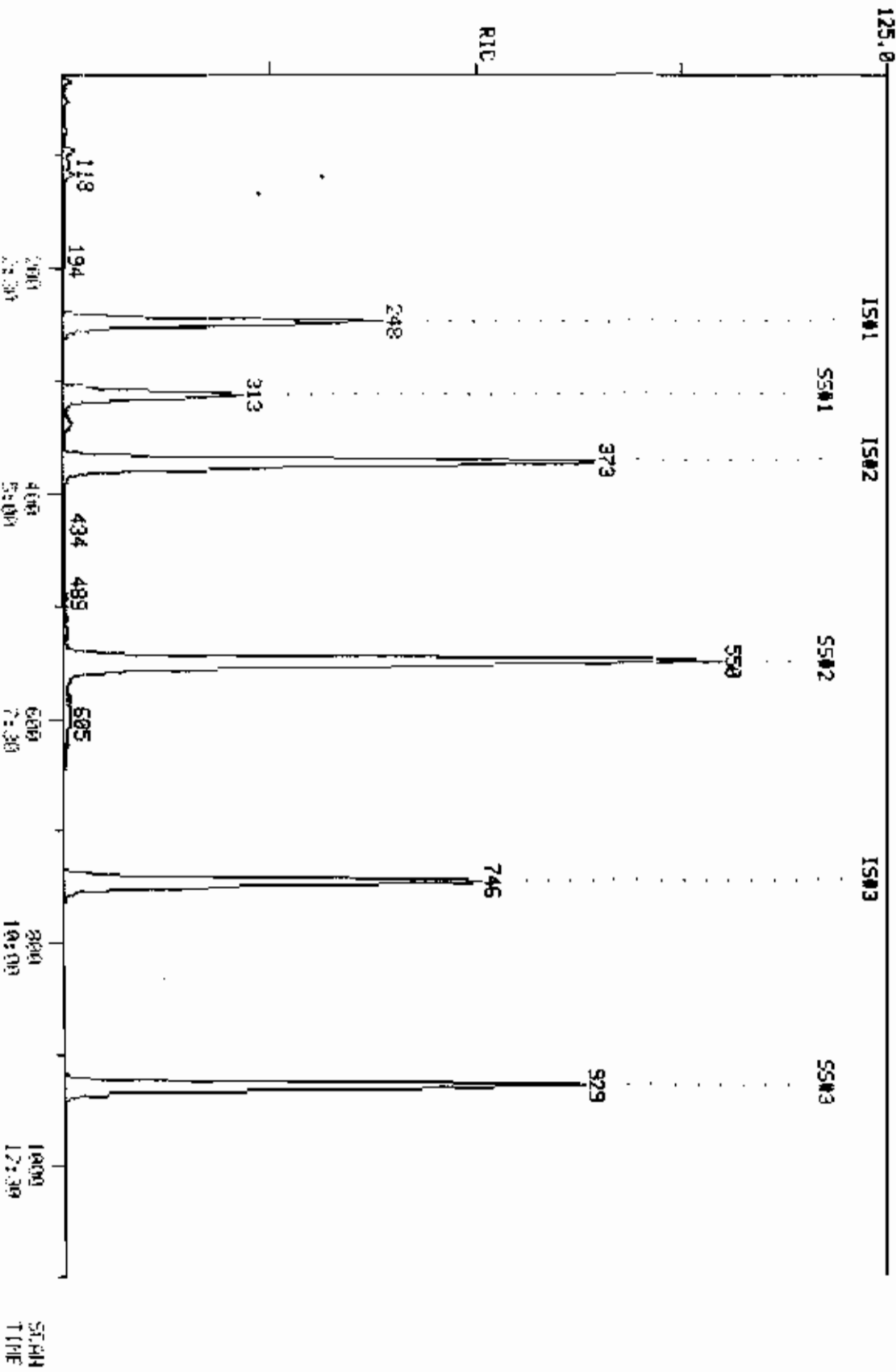
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COMPUchem LABS

COMPUchem DATA: 010027841D19 SCANS 20 TO 1100

RIC
05/18/90 21:31:00
SAMPLE: SML C0# 337841 ID# 738881TB2 C5# 337841 ON #15
COND5.:

216648.



QUANTITATION REPORT FILE: CN037841B19
 DATA: CN037841B19.T1
 08/18/90 21:31:00
 SAMPLE: 5ML CC# 337841 ID# 73B001T82 CS# 337841 CN #19
 CONDS: .
 SUBMITTED BY: 19 ANALYST: 1009

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-93-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <109-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 O5-CHLORODENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57 SS#1
41	#247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
42	#233 O8-TOLUENE WE#59 SS#2

NO	N/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	128	248	3:06	1	1.000	A BB	93085.	50.000 UG/L	16.41
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	96	1:12	1	0.387	A BV	11114.	15.122 UG/L	4.96
9	114	373	4:40	9	1.000	A BB	509461.	50.000 UG/L	16.41
10	84	118	1:28	1	0.476	A BB	2669.	1.242 UG/L	0.41
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	746	9:19	21	1.000	A BB	299372.	50.000 UG/L	16.41
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	913	3:55	1	1.262	A BB	144803.	42.534 UG/L	13.97
41	95	929	11:37	21	1.245	A BB	202484.	47.120 UG/L	13.47
42	98	530	6:52	21	0.737	A BB	305007.	48.590 UG/L	13.95

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:09	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:31		10.000			50.00		0.485	
3	0:34		10.000			50.00		0.624	
4	0:38		10.000			50.00		1.306	
5	0:42		10.000			50.00		0.899	
6	1:04		5.000			50.00		1.407	
7	1:08		5.000			50.00		3.508	
8	1:12	1.00	10.000	0.04	15.12	50.00	0.119	0.395	0.30
9	4:38	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	1:28	1.00	5.000	0.10	1.24	50.00	0.029	1.154	0.02
11	1:41		5.000			50.00		1.195	
12	2:07		5.000			50.00		1.738	
13	2:19		10.000			50.00		0.305	
14	2:49		5.000			50.00		1.171	

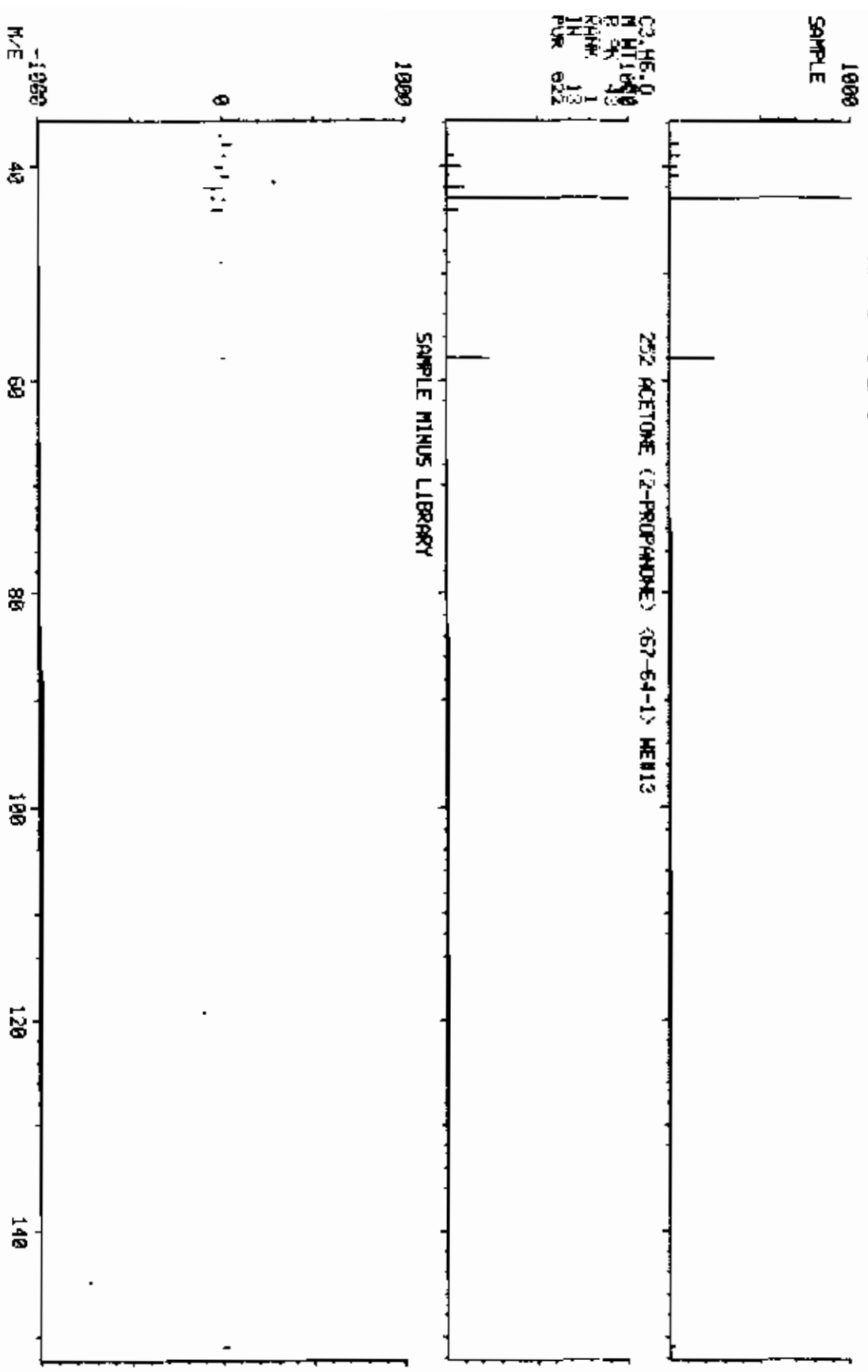
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	2:58		10.000			50.00		0.061	
16	3:20		5.000			50.00		2.644	
17	3:21		5.000			50.00		0.589	
18	3:32		5.000			50.00		0.619	
19	3:52		5.000			50.00		0.575	
20	4:01		5.000			50.00		1.875	
21	9:15	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	4:52		5.000			50.00		0.461	
23	5:12		5.000			50.00		0.273	
24	5:48		5.000			50.00		0.701	
25	6:01		5.000			50.00		0.707	
26	6:58		15.000			50.00		0.533	
27	6:55		5.000			50.00		1.061	
28	7:34		5.000			50.00		0.325	
29	7:48		5.000			50.00		0.218	
30	7:43		5.000			50.00		0.615	
31	8:27		15.000			50.00		0.128	
32	8:22		5.000			50.00		0.422	
33	9:17		5.000			50.00		0.885	
34	9:37		5.000			50.00		0.408	
35	9:52		5.000			50.00		0.578	
36	10:32		5.000			50.00		0.578	
37	10:37		5.000			50.00		1.005	
38	10:52		5.000			50.00		0.250	
39	12:10		5.000			50.00		0.347	
40	3:54	1.00	5.000	0.25	42.55	50.00	1.536	1.828	0.85
41	11:31	1.01	5.000	0.25	47.12	50.00	0.676	0.717	0.94
42	6:49	1.01	5.000	0.15	48.59	50.00	1.686	1.735	0.97

LIBRARY SEARCH
05/10/90 21:21.00 + 1:12
SAMPLE SML C0# 337841 10# 738001TB2 C5# 337841 ON #19
ENHANCED (5 158 2N 8T)

COMPUCHEN LABS

DATA: C037841B19 # 96

BASE M/E: 43
R1C1 21C2.

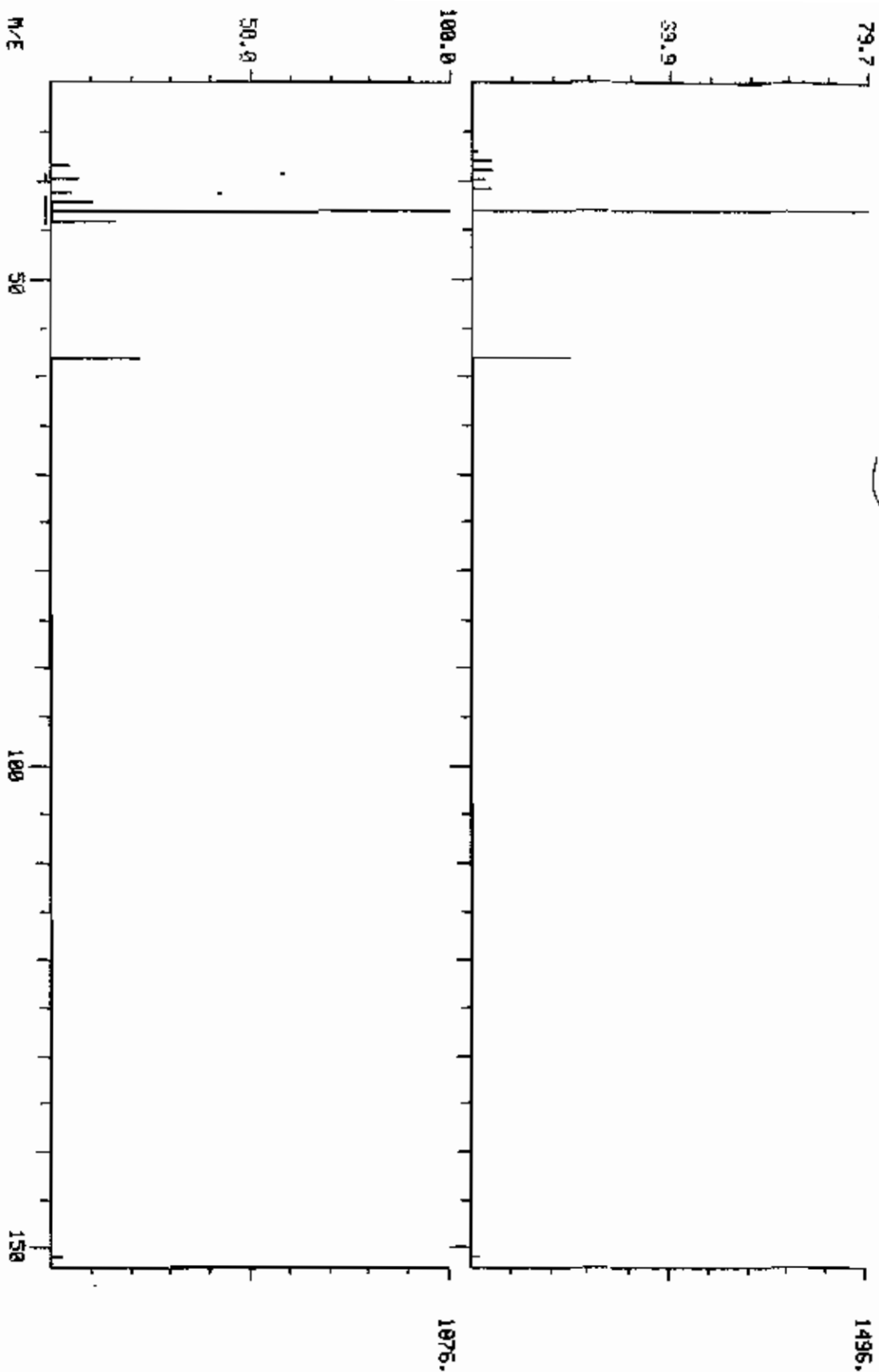


COMPUCHEM LABS

DATA: CH037841B19 #96

BASE M/E: 43/ 43
R10: 2153.1/ 2191.

DUAL MASS SPECTRUM
08/10/98 21:31:00 + 1412
SAMPLE: SML CCM 337841 ID# 789001TB2 CSM 337841 ON M19
ENHANCED (S 158 2N) 252 ACETONE (2-PROPANOONE) (67-64-1) W#113



COMPUCHEN LABS

DATA: CN037841819 # 118

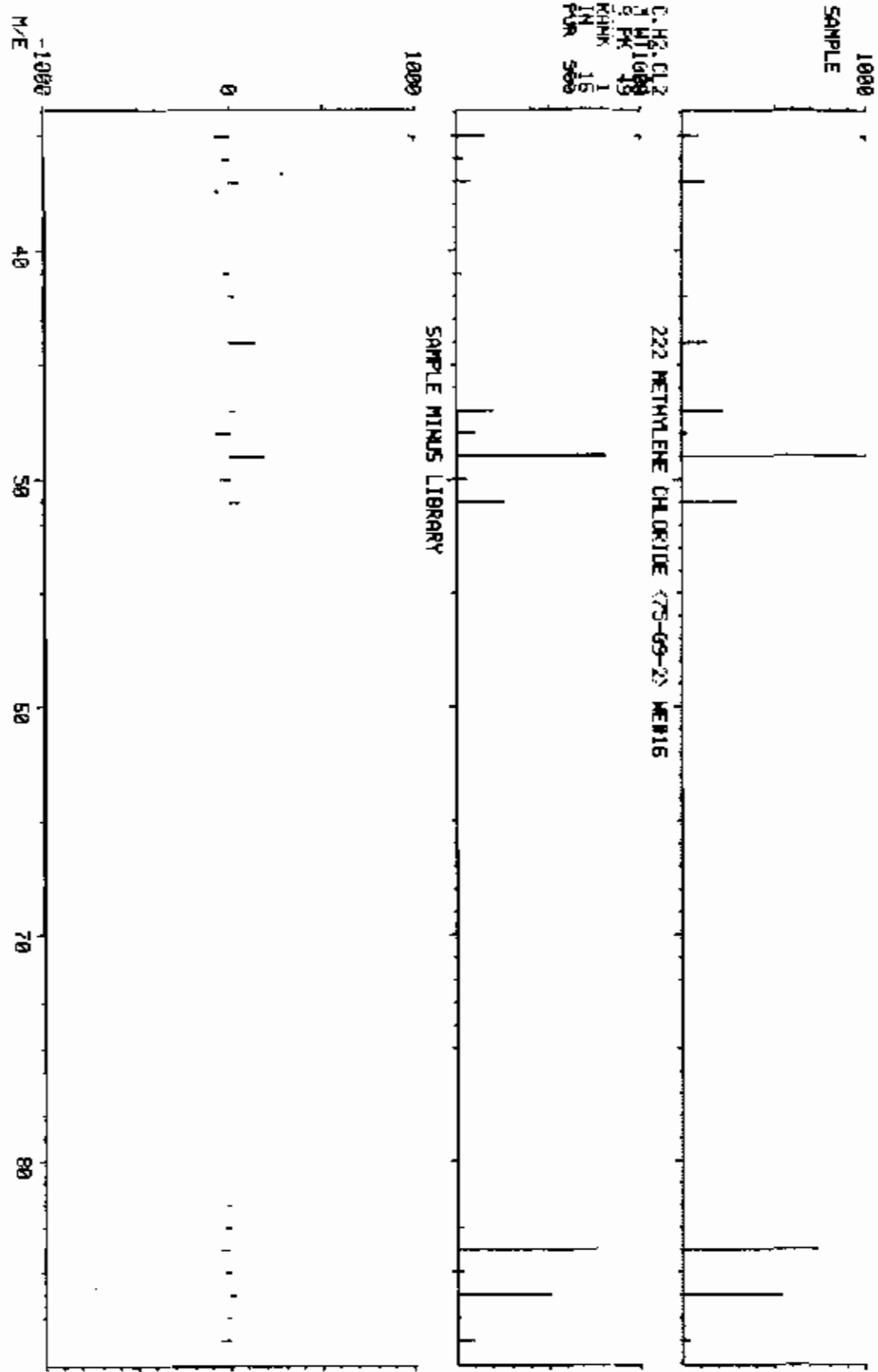
BOSE M/E 49
R/C 2326

LIBRARY SEARCH
02/18/90 21:21:00 + 1:20
SAMPLE: SML C# 337841 ID# 738801182 C# 337841 ON #19
ENHANCED (S 158 2N 8T)

1000
SAMPLE
C. H₂. CL₂
M. HT 1000
S. PK 19
KOHX 1
IN 15
FOR 500

222 METHYLENE CHLORIDE (75-09-2) MER16

SAMPLE MINUS LIBRARY

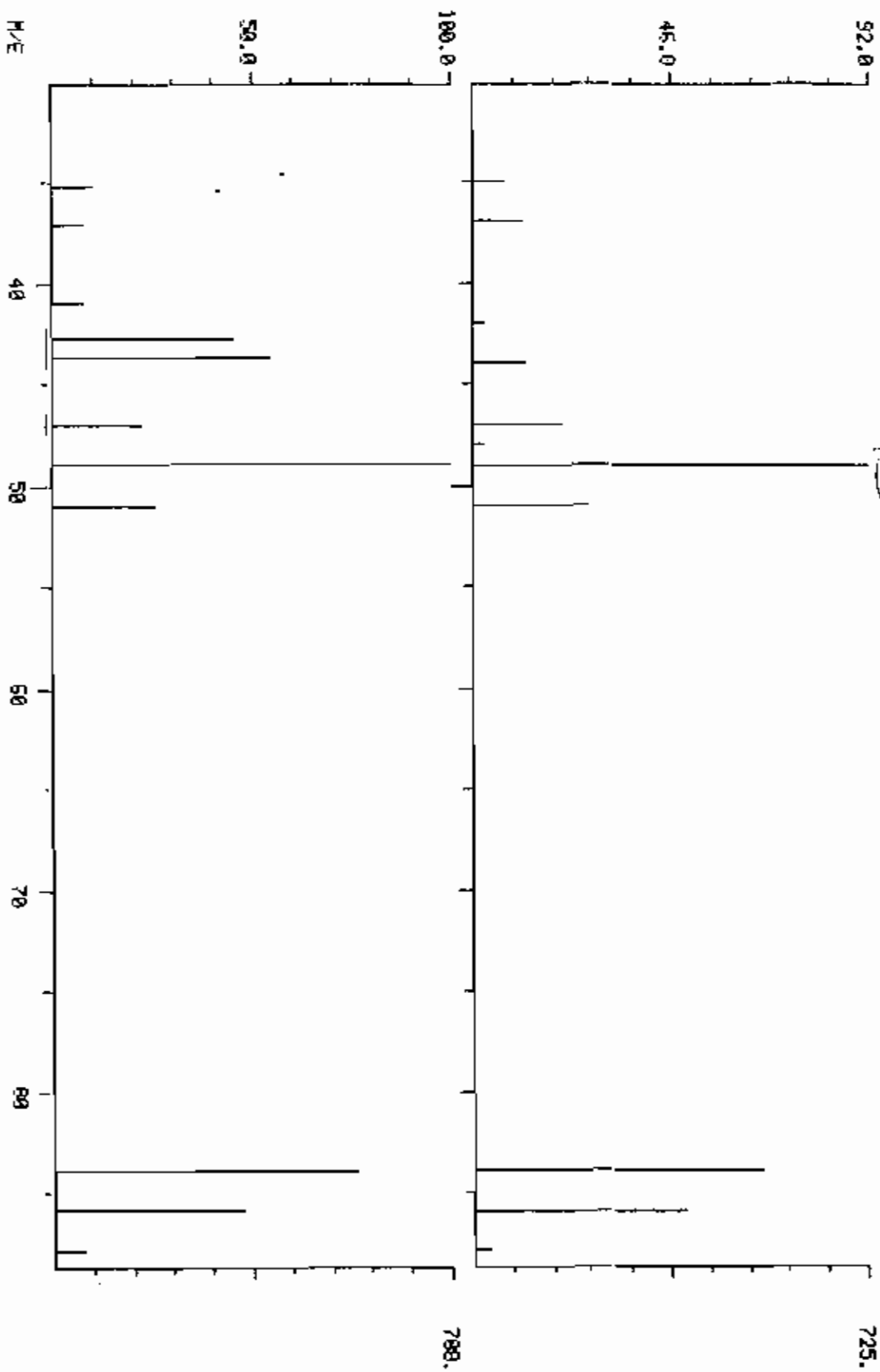


COMPUCHEN LABS

DATA: CN037841B19 #118

BASE M/E: 49/ 49
RIC: 2935.7 3191.

DUAL MASS SPECTRUM
05/10/90 21:31:00 + 1:20
SAMPLE: SML C0# 337841 ID# 7388061TB2 CS# 337841 ON #19
ENHANCED (S 158 2N) 222 METHYLENE CHLORIDE (75-09-2) REF15



RECEIPT DATE: 05/09/90 CASE#: 20124

VOA GC/MS WORKSHEET COMPUCHEM#: 337841

J1 1 J30 1 D1 1 (:1)
2J1 1 J40 1 D21 1 (:1)

GC/MS; TCL VOA; WATER; 3rd Ed. 8240

Sample Prep Code--- 0
Instrument Code--- 289
Compound List----- 458
Surrogate Std----- 394
Internal Std----- 36

SAMPLE ID#: 738001TB2

GC/MS ANALYSIS

Amount Purged: 5 ml or Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BH900518A19 Disk ()
Blank Filename CB900518A19 Disk ()
Standard Filename CW900518A19 Disk ()
Sample Filename CN037841B19 Disk ()

ANALYST(S): Injection 1009R Work-up 1009R

GC/MS REVIEW

CONDITION CODE

OK



Disposition: Complete

Extraneous Peak Search Results

of Peaks Found: 0 Reinject Neat

Quality Assurance Notice(s):

Notices Required 1 Dilute (:1)
MAY 20 1990

COMMENTS:

GC/MS Review DEH Date 5/19/90 Auditor _____ Date _____

REPORT INTEGRATION

Final Reportable Package(s): CN0-219 Total # of Injections: 1

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW:

Initials _____ Date _____

AC0780

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	248	93100	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
230	94	BROMOMETHANE				BDL	10
232	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			15.1	15 R	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	373	509000	50.0		
222	84	METHYLENE CHLORIDE			1.2	100	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLORO BENZENE (IS)	744	300000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLORO BENZENE				BDL	5
219	106	ETHYL BENZENE				BDL	5
330	106	M, F-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			42.6	85. %	
247	95 S	BROMOFLUOROBENZENE			47.1	94. %	
233	98 S	D8-TOLUENE WE#59 SS#2			46.6	97. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY *Debra*
(OC/MS DATA REVIEWER)
DATE 5/19/90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP	#	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
399	96		1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:								
		3979.		1367	902100.		304.6	16.

CORRECTED/REVIEWED BY

OK
(GC/MS DATA REVIEWER)

DATE

5-18-91

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	42.6	50.0	85.	76-114	X	
41	247	BROMOFLUOROBENZENE	47.1	50.0	94.	86-115	X	
42	233	D8-TOLUENE WE#59 SS#2	48.6	50.0	97.	88-110	X	

+ ADVISORY SURROGATE ONLY
 ++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *CDJ/SC*
 (GC/MS DATA REVIEWER)
 DATE 5-19-90

QUALITY ASSURANCE NOTICE

CompuChem # 237841
Blank ID # CR50078A19
Case 20124

CompuChem offers various types of analytical services, two of which are characterized as "Volatile Analysis by GC/MS--Method 8248" and "Semi-volatile Analysis by GC/MS--Method 8278." Many of the Quality Control requirements of these methods were derived from the EPA's Contract Laboratory Program (CLP). Following the conventions established by the EPA for qualifying common laboratory artifacts in samples analyzed under the CLP Caucus Organics Protocols, we have reported the following compound(s) with the "B" footnote:

<u>common laboratory artifact</u>	<u>blank concentration</u>	<u>units</u>
<u>Acetone</u>	<u>12</u>	<u>ug/l</u>
<u>Methylene Chloride</u>	<u>2</u>	<u>ug/l</u>

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The concentration of methylene chloride in solid Method Blanks may not exceed 25 ug/l; acetone may not exceed 50 ug/l. The only exception to our policy is made when holding times are in jeopardy of being exceeded (although the CLP requirements must still be met).

This Notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact in a sample is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Litchfield
Manager, Quality Assurance

C-4295
8-1828

C. STANDARDS DATA

- (1) Initial Calibration Data (Form VI VOA) - In order by instrument if more than one instrument used.
 - (a) VOA standard (s) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for the initial (five point) calibration. Spectra are not required.
 - (b) All initial calibration data must be included, regardless of when it was performed and for which case. When more than one initial calibration is performed, the data must be put in chronological order, by instrument.

- (2) Continuing Calibration (Form VII VOA) - In order by instrument, if more than one instrument used.
 - (a) VOA standard (s) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for all continuing (12 hour) calibrations. Spectra are not required.
 - (b) When more than one continuing calibration is performed, forms must be in chronological order, within fraction and instrument.

- (3) Internal Standard Area Summary (Form VIII VOA) - In order by instrument, if more than one instrument used.

When more than one continuing calibration is performed, forms must be in chronological order, by instrument.

- (1) Initial Calibration Data (Form VI VOA) - in order by instrument if more than one instrument used.
 - (a) VOA standard(s) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for the initial (five point) calibration. Spectra are not required.
 - (b) All initial calibration data must be included, regardless of when it was performed and for which case. When more than one initial calibration is performed, the data must be put in chronological order, by instrument.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM LABS Contract: 755501
 Lab Code: COMPU Casa No.: 20124 SAS No.: _____ SDG No.: 01
 Instrument ID: 19 Calibration Date(s): 05/08/90 05/08/90
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = <u>CS900508C19</u> RRF50 = <u>CT900508C19</u>							
RRF100 = <u>CU900508C19</u> RRF150 = <u>CV900508C19</u> RRF200 = <u>CW900508C19</u>							
COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane	0.457	0.479	0.453	0.367	0.388	0.429	11.3#
Bromomethane	1.288	1.422	1.475	1.407	1.382	1.395	4.9#
Vinyl Chloride	* 0.577	0.654	0.612	0.263	0.569	0.535	29.1*
Chloroethane	0.734	0.946	1.084	1.003	1.023	0.958	14.1#
Methylene Chloride	1.185	1.161	1.322	1.463	1.533	1.333	12.4#
Acetone	0.131	0.209	0.295	0.122	0.443	0.280	42.2
Carbon Disulfide	3.394	4.149	5.417	5.721	5.258	4.788	20.5#
1,1-Dichloroethene	* 1.165	1.395	1.523	1.578	1.201	1.372	13.5*
1,1-Dichloroethane	* 1.379	1.453	1.540	1.643	1.604	1.524	7.1#
1,2-Dichloroethene (total)	2.358	2.404	2.510	2.645	2.761	2.536	6.6#
Chloroform	* 2.184	2.196	2.196	2.160	2.216	2.190	0.9*
1,2-Dichloroethane	1.682	1.570	1.575	1.563	1.648	1.608	3.4#
2-Butanone	0.016	0.050	0.055	0.058	0.058	0.047	39.0
1,1,1-Trichloroethane	0.629	0.614	0.624	0.646	0.646	0.632	2.2#
Carbon Tetrachloride	0.708	0.663	0.665	0.684	0.647	0.673	3.5#
Vinyl Acetate	0.291	0.231	0.250	0.266	0.335	0.275	14.7#
Bromodichloromethane	0.698	0.642	0.647	0.684	0.650	0.664	3.8#
1,2-Dichloropropane	* 0.285	0.256	0.235	0.247	0.242	0.253	7.7*
cis-1,3-Dichloropropene	0.700	0.643	0.636	0.702	0.671	0.670	4.6#
Trichloroethene	0.534	0.478	0.470	0.472	0.452	0.481	6.5#
Dibromochloromethane	0.608	0.564	0.476	0.740	0.583	0.594	16.1#
1,1,2-Trichloroethane	0.442	0.394	0.346	0.397	0.363	0.388	9.5#
Benzene	0.693	0.663	0.694	0.695	0.717	0.692	2.8#
Trans-1,3-Dichloropropene	0.404	0.377	0.364	0.393	0.361	0.380	4.9#
Bromoform	* 0.535	0.512	0.473	0.480	0.422	0.484	8.9*
4-Methyl-2-Pentanone	0.363	0.383	0.317	0.347	0.307	0.343	9.2#
2-Hexanone	0.173	0.152	0.132	0.175	0.128	0.152	14.5#
Tetrachloroethane	0.725	0.656	0.580	0.564	0.502	0.605	14.3#
1,1,2,2-Tetrachloroethane	* 0.386	0.374	0.383	0.383	0.363	0.378	2.5#
Toluene	* 1.095	1.006	0.978	1.000	0.953	1.006	5.3*
Chlorobenzene	* 0.923	0.838	0.814	0.818	0.783	0.835	6.3#
Ethylbenzene	* 0.446	0.399	0.415	0.426	0.416	0.420	4.1*
Styrene	0.935	0.882	0.952	0.942	1.001	0.942	4.5#
Total Xylenes	1.179	1.078	1.119	1.016	1.087	1.096	5.4#

Toluene-d8	1.596	1.532	1.466	1.545	1.486	1.525	3.4#
BFB	0.598	0.603	0.613	0.672	0.688	0.635	6.6#
1,2-Dichloroethane-d4	1.372	1.339	1.448	1.405	1.502	1.413	4.5#

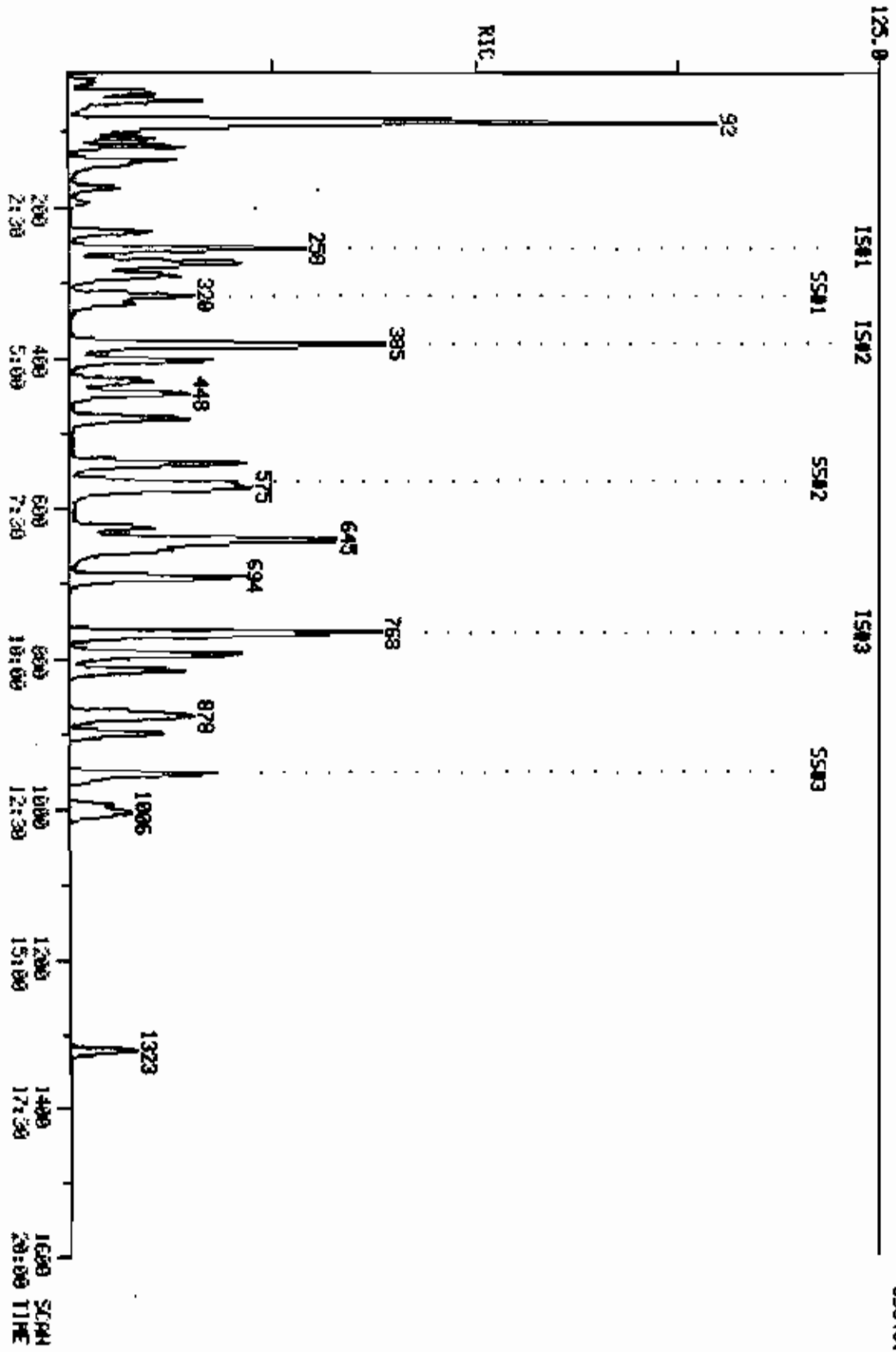
FORM VI VOA

1/87 Rev.

RIC
05/08/90 1:18:00
SAMPLE: 2ML U510620 #1901 ON #19
COND5.:

COMPUCHEN LABS
COMPUCHEN DATA CS906666C19 SCANS 25 TO 1600

S9840.



QUANTITATION REPORT FILE: C5900508C19
DATA: C5900508C19.TI
05/08/90 1:18:00
SAMPLE: 5ML VSTD020 #1901 ON #19
CONDS :
SUBMITTED BY: 19 ANALYST: 1539

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (19) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-9> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <96-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (15) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57 BS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
 59 #233 O8-TOLUENE WE#59 SS#2

*Checked
5/15/02*

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
1	128	258	3:13	1	1.000	A BB	26040.	50.000 UG/L	2.62
2	30	35	0:26	1	0.136	A BB	4760.	21.918 UG/L	1.15
3	62	40	0:30	1	0.155	A BB	6010.	21.271 UG/L	1.12
4	94	50	0:37	1	0.194	A BB	13411.	18.493 UG/L	0.97
5	64	54	0:40	1	0.209	A BB	7650.	16.775 UG/L	0.88
6	101	63	0:47	1	0.244	A BB	31665.	17.552 UG/L	0.92
7	56	87	1:05	1	0.337	A BB	7469.	151.159 UG/L	7.93
8	96	87	1:05	1	0.337	A BB	12130.	17.115 UG/L	0.90
9	76	93	1:10	1	0.360	A BB	35351.	17.412 UG/L	0.91
10	142	93	1:10	1	0.360	A BB	49261.	21.271 UG/L	1.12
11	117	91	1:08	1	0.353	A BB	15648.	20.482 UG/L	1.07
12	85	93	1:10	1	0.360	A BB	14566.	20.767 UG/L	1.09
13	43	97	1:13	1	0.376	A VB	1367.	11.833 UG/L	0.62
14	114	385	4:49	14	1.000	A BB	99571.	50.000 UG/L	2.62
15	76	112	1:24	1	0.434	A BB	4740.	18.207 UG/L	0.95
16	84	121	1:31	1	0.469	A BB	12346.	22.272 UG/L	1.17
17	96	140	1:45	1	0.543	A BB	11141.	19.915 UG/L	1.04
18	53	145	1:49	1	0.562	A BB	15703.	223.610 UG/L	11.73
19	63	177	2:13	1	0.686	A BB	14361.	19.961 UG/L	1.05
20	43	195	2:26	14	0.506	A BB	11583.	25.331 UG/L	1.33
21	96	235	2:56	1	0.911	A BB	13413.	20.767 UG/L	1.09
22	72	247	3:05	1	0.957	A*BB	166.	7.417 UG/L	0.39
23	83	275	3:26	1	1.066	A BB	22750.	21.755 UG/L	1.14
24	97	278	3:28	14	0.722	A BB	25045.	21.800 UG/L	1.14
25	117	293	3:40	14	0.761	A VB	28218.	21.854 UG/L	1.15
26	78	319	3:59	14	0.829	A BB	27601.	20.197 UG/L	1.06
27	62	331	4:08	1	1.283	A BB	17918.	21.034 UG/L	1.10
28	70	382	4:46	14	0.992	A BV	6957.	275.636 UG/L	14.46
29	117	767	9:35	29	1.000	A BB	62696.	50.000 UG/L	2.62
30	130	404	5:03	14	1.049	A BB	21250.	20.959 UG/L	1.10
31	63	433	5:25	14	1.125	A BB	11340.	21.796 UG/L	1.14
32	174	447	5:35	1	1.733	A BB	19498.	21.578 UG/L	1.13
33	83	482	6:01	14	1.252	A BB	27816.	20.913 UG/L	1.10
34	63	540	6:45	14	1.403	A BB	7134.	20.012 UG/L	1.05
35	75	542	6:46	14	1.408	A BB	27882.	20.127 UG/L	1.06
36	43	579	7:14	29	0.755	A BB	9095.	19.470 UG/L	1.02
37	92	575	7:11	29	0.750	A BB	27470.	20.573 UG/L	1.08
38	75	628	7:51	14	1.631	A BV	16087.	20.569 UG/L	1.08
39	97	649	8:07	14	1.686	A BB	17597.	22.629 UG/L	1.19
40	69	658	8:13	29	0.858	A BB	21534.	24.010 UG/L	1.26
41	164	642	8:01	29	0.837	A BB	18191.	20.727 UG/L	1.09

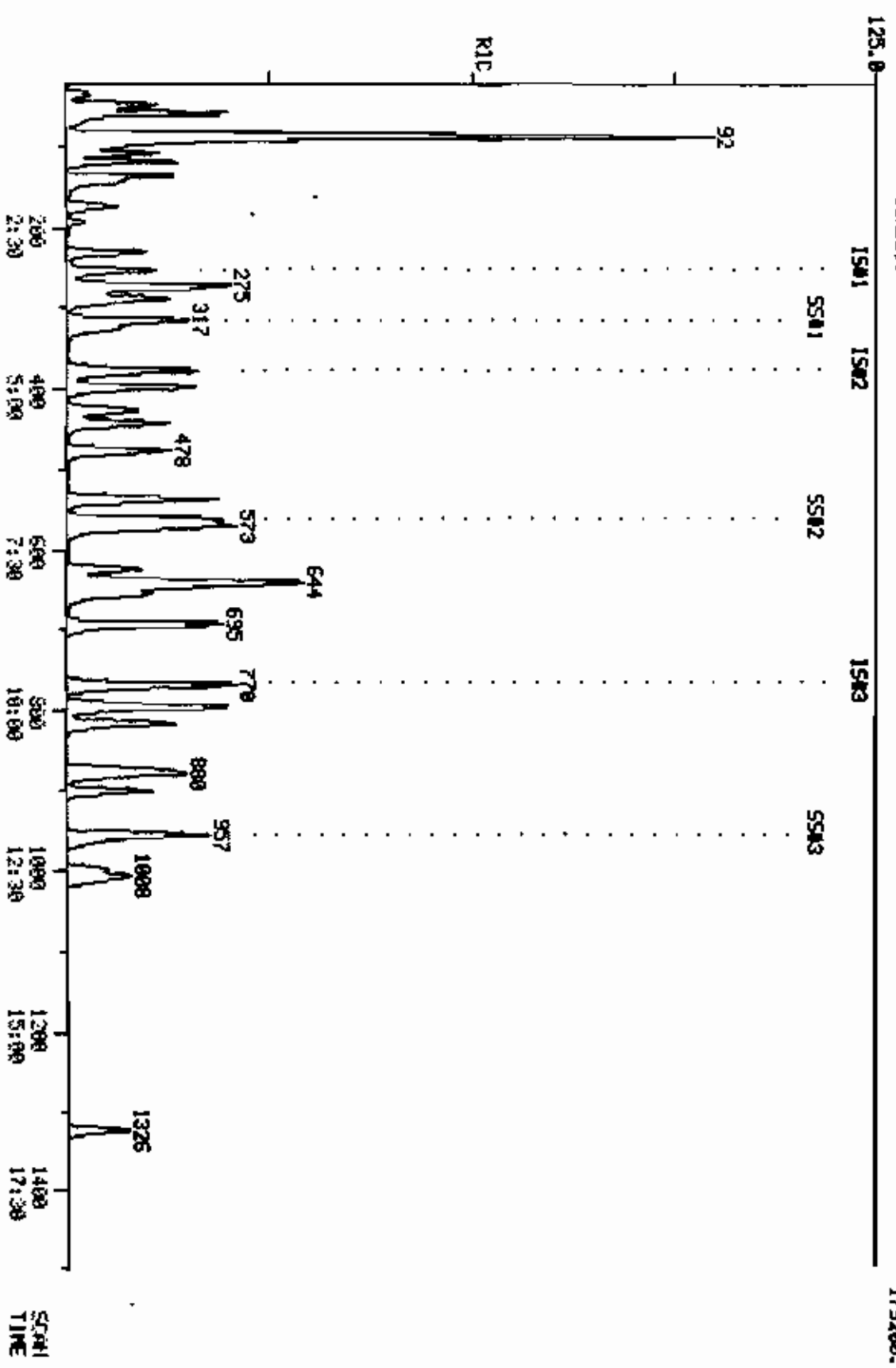
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
42	43	700	8:43	29	0.913	A BV	4347.	23.217 UG/L	1.22
43	129	694	8:40	14	1.803	A BB	24203.	25.053 UG/L	1.31
44	107	694	8:40	14	1.803	A BB	17326.	26.672 UG/L	1.40
45	112	771	9:38	29	1.005	A BB	23152.	21.803 UG/L	1.14
46	131	795	9:56	14	2.065	A BB	14006.	21.121 UG/L	1.11
47	106	797	9:58	29	1.039	A BB	11175.	21.429 UG/L	1.12
48	106	817	10:13	29	1.065	A BB	14982.	21.378 UG/L	1.12
49	106	875	10:36	29	1.141	A BB	13840.	21.322 UG/L	1.12
50	104	880	11:00	29	1.147	A BB	23454.	20.643 UG/L	1.08
51	173	901	11:16	14	2.340	A BB	21317.	20.199 UG/L	1.06
52	88	962	12:01	14	2.499	A BB	3592.	19.490 UG/L	1.02
53	110	996	12:27	29	1.299	A BB	5047.	21.396 UG/L	1.12
54	83	1004	12:33	29	1.309	A BB	9691.	20.881 UG/L	1.10
55	53	1012	12:39	29	1.319	A BB	2089.	20.716 UG/L	1.09
56	157	1323	16:32	29	1.725	A BB	12433.	43.578 UG/L	2.29
57	65	322	4:01	1	1.248	A BB	14291.	19.539 UG/L	1.02
58	95	954	11:55	29	1.244	A BB	14997.	19.592 UG/L	1.03
59	98	567	7:05	29	0.739	A BB	40026.	19.593 UG/L	1.03

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:19	0.97	10.000	0.10	50.00	50.00	1.030	1.000	1.00
2	0:27	0.97	10.000	0.01	21.92	50.00	0.153	0.417	0.44
3	0:31	0.98	10.000	0.02	21.27	50.00	0.231	0.543	0.43
4	0:39	0.96	10.000	0.02	18.49	50.00	0.519	1.392	0.37
5	0:41	0.98	10.000	0.02	16.78	50.00	0.294	0.876	0.34
6	0:48	0.98	10.000	0.02	17.55	50.00	1.216	3.464	0.35
7	1:07	0.97	90.000	0.00	151.16	500.00	0.079	0.095	0.30
8	1:07	0.97	5.000	0.07	17.11	50.00	0.466	1.361	0.34
9	1:12	0.97	5.000	0.07	17.41	50.00	1.358	3.898	0.35
10	1:11	0.98	10.000	0.04	21.27	50.00	1.892	4.447	0.43
11	1:10	0.97	10.000	0.04	20.48	50.00	0.601	1.467	0.41
12	1:11	0.98	10.000	0.04	20.77	50.00	0.559	1.347	0.42
13	1:16	0.95	10.000	0.04	11.83	50.00	0.059	0.222	0.24
14	4:58	0.97	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:27	0.97	15.000	0.03	18.21	50.00	0.182	0.500	0.36
16	1:34	0.96	5.000	0.09	22.27	50.00	0.474	1.064	0.45
17	1:49	0.97	5.000	0.11	19.92	50.00	0.428	1.074	0.40
18	1:54	0.95	120.000	0.00	223.61	500.00	0.060	0.135	0.45
19	2:17	0.97	5.000	0.14	19.96	50.00	0.551	1.381	0.40
20	2:31	0.97	10.000	0.05	25.33	50.00	0.116	0.230	0.51
21	3:01	0.97	5.000	0.18	20.77	50.00	0.519	1.240	0.42
22	3:13	0.96	10.000	0.10	7.42	50.00	0.006	0.043	0.15
23	3:33	0.97	5.000	0.21	21.76	50.00	0.874	2.008	0.44
24	3:34	0.97	5.000	0.14	21.80	50.00	0.252	0.577	0.44
25	3:46	0.97	5.000	0.15	21.85	50.00	0.283	0.648	0.44
26	4:07	0.97	5.000	0.17	20.20	50.00	0.277	0.686	0.40
27	4:15	0.97	5.000	0.26	21.03	50.00	0.673	1.599	0.42
28	4:53	0.98	100.000	0.01	275.64	500.00	0.007	0.013	0.55
29	9:46	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	5:13	0.97	5.000	0.21	20.96	50.00	0.213	0.509	0.42
31	5:34	0.97	5.000	0.22	21.80	50.00	0.114	0.261	0.44
32	5:45	0.97	5.000	0.35	21.58	50.00	0.749	1.735	0.43
33	6:10	0.98	5.000	0.25	20.91	50.00	0.279	0.668	0.42
34	6:53	0.98	10.000	0.14	20.01	50.00	0.072	0.179	0.40
35	6:55	0.98	5.000	0.28	20.13	50.00	0.280	0.696	0.40
36	7:24	0.98	15.000	0.05	19.47	50.00	0.145	0.373	0.39

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:20	0.98	5.000	0.15	20.57	50.00	0.438	1.065	0.41
38	8:00	0.98	5.000	0.33	20.57	50.00	0.162	0.393	0.41
39	8:15	0.98	5.000	0.34	22.63	50.00	0.177	0.390	0.45
40	8:22	0.98	10.000	0.09	24.01	50.00	0.343	0.715	0.48
41	8:11	0.98	5.000	0.17	20.73	50.00	0.290	0.700	0.41
42	8:55	0.98	15.000	0.06	23.22	50.00	0.069	0.149	0.46
43	8:50	0.98	5.000	0.36	25.05	50.00	0.243	0.485	0.50
44	8:52	0.98	5.000	0.36	26.67	50.00	0.174	0.326	0.53
45	9:48	0.98	5.000	0.20	21.80	50.00	0.369	0.847	0.44
46	10:06	0.98	5.000	0.41	21.12	50.00	0.141	0.333	0.42
47	10:08	0.98	5.000	0.21	21.43	50.00	0.178	0.416	0.43
48	11:05	0.92	5.000	0.21	21.38	50.00	0.259	0.559	0.43
49	10:23	1.05	5.000	0.23	21.32	50.00	0.221	0.518	0.43
50	11:10	0.98	5.000	0.23	20.64	50.00	0.374	0.906	0.41
51	11:26	0.98	5.000	0.47	20.20	50.00	0.214	0.530	0.40
52	12:13	0.98	15.000	0.17	19.49	50.00	0.036	0.093	0.39
53	12:38	0.99	15.000	0.09	21.40	50.00	0.080	0.188	0.43
54	12:44	0.99	5.000	0.26	20.88	50.00	0.155	0.370	0.42
55	12:13	1.04	15.000	0.09	20.72	50.00	0.033	0.080	0.41
56	16:49	0.99	10.000	0.17	43.58	100.00	0.094	0.228	0.44
57	4:09	0.97	5.000	0.25	19.54	50.00	0.549	1.404	0.39
58	12:07	0.98	5.000	0.25	19.59	50.00	0.239	0.610	0.39
59	7:14	0.98	5.000	0.15	19.59	50.00	0.638	1.629	0.39

RIC
05/09/90 2:07:00
SAMPLE ONE USTID050 01902 ON 019
COMD5:

COMPUCHEN LABS
COMPUCHEN DATA C:\900505019 SQMS 25 10 1990



QUANTITATION REPORT FILE: CT900508C19
DATA: CT900508C19.TI
05/08/90 2:07:00
SAMPLE: 5ML V8TD050 #1902 DN #19
COND: :
SUBMITTED BY: 19 ANALYST: 1539

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLORODETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CRDONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M, P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57 66#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 66#3
 59 #233 D8-TOLUENE WE#59 66#2

015-018
 5-8-90

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	256	0:12	1	1.000	A BB	25390.	50.000 UG/L	1.16
2	50	36	0:27	1	0.141	A BB	12150.	57.378 UG/L	1.33
3	62	40	0:30	1	0.156	A BB	16617.	60.319 UG/L	1.40
4	94	50	0:37	1	0.195	A BB	36107.	51.063 UG/L	1.18
5	64	53	0:40	1	0.207	A VB	24029.	54.041 UG/L	1.25
6	101	62	0:46	1	0.242	A BB	90241.	51.303 UG/L	1.19
7	56	87	1:05	1	0.340	A BV	22838.	474.032 UG/L	10.99
8	96	87	1:05	1	0.340	A BB	35414.	51.246 UG/L	1.19
9	76	92	1:09	1	0.359	A BV	105333.	53.208 UG/L	1.23
10	142	92	1:09	1	0.359	A BB	103429.	45.805 UG/L	1.06
11	117	91	1:08	1	0.355	A BB	36691.	49.256 UG/L	1.14
12	85	91	1:08	1	0.355	A BB	37250.	54.468 UG/L	1.26
13	43	97	1:13	1	0.379	A BV	5302.	47.065 UG/L	1.09
14	114	380	4:45	14	1.000	A BB	98816.	50.000 UG/L	1.16
15	76	111	1:23	1	0.434	A VB	13365.	52.652 UG/L	1.22
16	84	120	1:30	1	0.469	A BB	29490.	51.562 UG/L	1.26
17	96	138	1:43	1	0.539	A BB	28950.	53.075 UG/L	1.23
18	53	146	1:49	1	0.570	A BB	33609.	490.849 UG/L	11.38
19	63	175	2:11	1	0.684	A BB	36904.	52.609 UG/L	1.22
20	43	193	2:25	14	0.508	A BB	22792.	50.225 UG/L	1.16
21	96	232	2:54	1	0.906	A BB	32091.	50.959 UG/L	1.18
22	72	247	3:05	1	0.965	A BB	1265.	57.970 UG/L	1.34
23	83	273	3:25	1	1.066	A BB	55768.	54.694 UG/L	1.27
24	97	276	3:27	14	0.726	A BB	60642.	53.187 UG/L	1.23
25	117	291	3:38	14	0.766	A VB	65477.	51.097 UG/L	1.18
26	78	316	3:57	14	0.832	A BB	65507.	48.300 UG/L	1.12
27	62	327	4:05	1	1.277	A BB	39857.	49.081 UG/L	1.14
28	70	372	4:39	14	0.979	A*BB	11997.	478.943 UG/L	11.10
29	117	769	9:37	29	1.000	A BB	62618.	50.000 UG/L	1.16
30	130	399	4:59	14	1.050	A BB	47224.	46.934 UG/L	1.09
31	63	427	5:20	14	1.124	A BB	25262.	48.925 UG/L	1.13
32	174	444	5:33	1	1.734	A BB	40475.	45.940 UG/L	1.06
33	83	478	5:58	14	1.258	A BB	63438.	48.059 UG/L	1.11
34	63	537	6:43	14	1.413	A BB	16385.	46.313 UG/L	1.07
35	75	539	6:44	14	1.418	A BB	63534.	46.213 UG/L	1.07
36	43	577	7:13	29	0.750	A BB	24012.	51.470 UG/L	1.19
37	92	573	7:10	29	0.745	A BV	62977.	47.225 UG/L	1.09
38	73	627	7:50	14	1.650	A BB	37303.	48.060 UG/L	1.11
39	97	648	8:06	14	1.705	A BB	38978.	50.508 UG/L	1.17
40	69	658	8:13	29	0.856	A BB	41321.	46.129 UG/L	1.07
41	164	643	8:02	29	0.836	A BB	41079.	46.865 UG/L	1.09

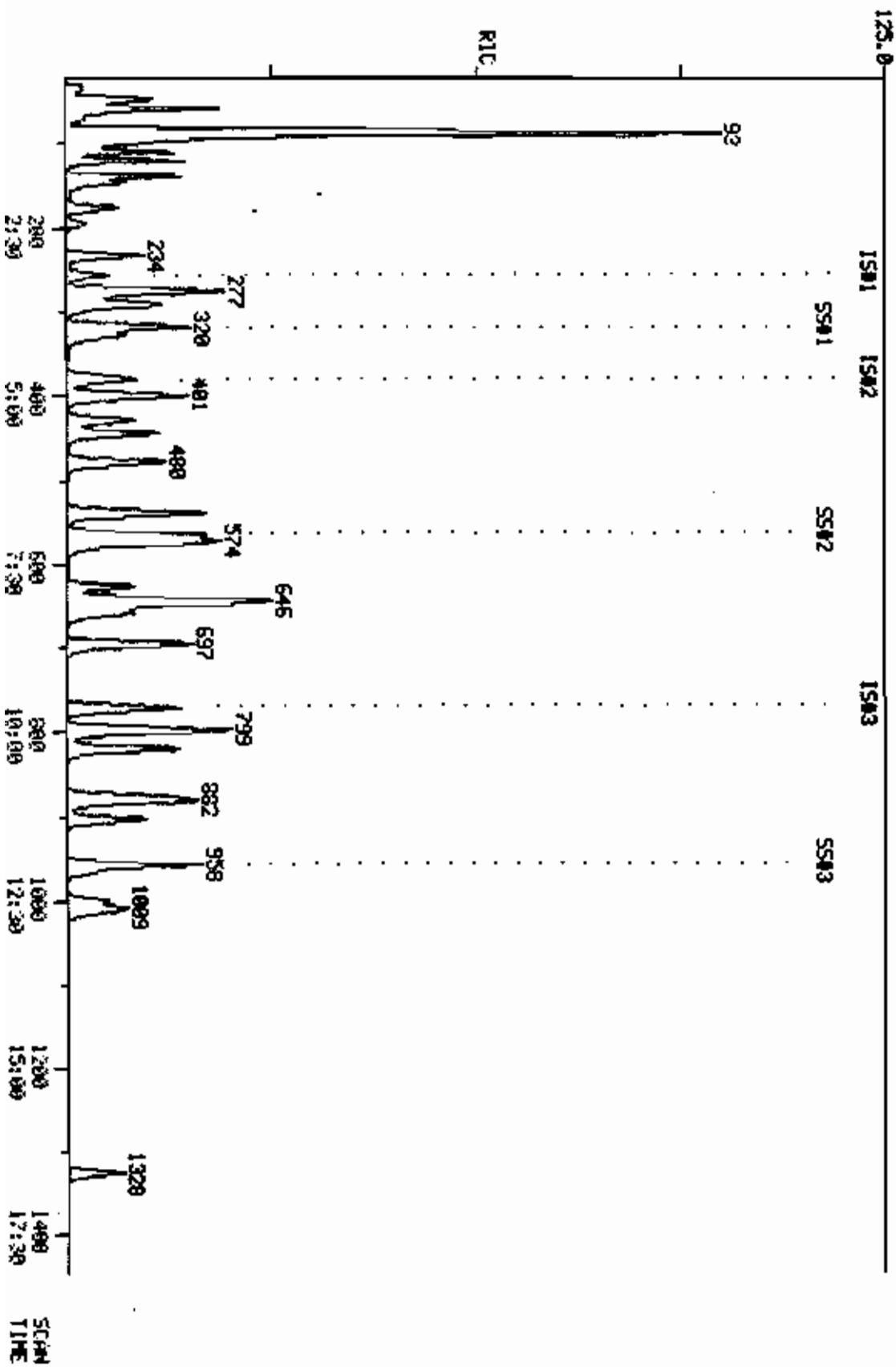
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTDT
42	43	701	8:46	29	0.912	A BB	9524.	50.930 UG/L	1.18
43	129	695	8:41	14	1.829	A BB	55775.	58.174 UG/L	1.35
44	107	695	8:41	14	1.829	A BB	37860.	58.728 UG/L	1.36
45	112	772	9:39	29	1.004	A BB	52466.	49.471 UG/L	1.15
46	131	795	9:56	14	2.092	A BV	32275.	49.041 UG/L	1.14
47	106	799	9:59	29	1.039	A BB	24961.	47.915 UG/L	1.11
48	106	819	10:14	29	1.065	A BB	34093.	48.707 UG/L	1.13
49	106	875	10:56	29	1.138	A BB	30711.	47.374 UG/L	1.10
50	104	882	11:01	29	1.147	A BB	55244.	48.684 UG/L	1.13
51	173	903	11:17	14	2.376	A BB	50618.	48.331 UG/L	1.12
52	88	966	12:04	14	2.542	A BB	6877.	18.434 UG/L	1.12
53	110	999	12:29	29	1.299	A BB	11075.	47.009 UG/L	1.09
54	83	1008	12:36	29	1.311	A BB	23421.	50.527 UG/L	1.17
55	53	1013	12:40	29	1.317	A BB	5078.	50.420 UG/L	1.17
56	157	1326	16:34	29	1.724	A BB	27571.	96.757 UG/L	2.24
57	65	319	3:59	1	1.246	A BB	33999.	47.674 UG/L	1.10
58	95	957	11:58	29	1.244	A BB	37783.	49.420 UG/L	1.15
59	98	565	7:04	29	0.735	A BB	95951.	47.028 UG/L	1.09

NO	RET(L)	RATID	RAT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:19	0.97	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27	1.00	10.000	0.01	57.38	50.00	0.479	0.417	1.15
3	0:31	0.98	10.000	0.02	60.32	50.00	0.684	0.543	1.21
4	0:39	0.96	10.000	0.02	51.06	50.00	1.422	1.392	1.02
5	0:41	0.96	10.000	0.02	54.04	50.00	0.946	0.876	1.08
6	0:48	0.97	10.000	0.02	51.30	50.00	3.554	3.464	1.03
7	1:07	0.97	90.000	0.00	474.03	500.00	0.090	0.095	0.95
8	1:07	0.97	5.000	0.07	51.25	50.00	1.395	1.361	1.02
9	1:12	0.96	5.000	0.07	53.21	50.00	4.149	3.898	1.06
10	1:11	0.97	10.000	0.04	45.80	50.00	4.074	4.447	0.92
11	1:10	0.97	10.000	0.04	49.26	50.00	1.445	1.467	0.99
12	1:11	0.96	10.000	0.04	54.47	50.00	1.467	1.347	1.09
13	1:16	0.95	10.000	0.04	47.06	50.00	0.209	0.222	0.94
14	4:58	0.95	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:27	0.96	15.000	0.03	52.65	50.00	0.526	0.500	1.05
16	1:34	0.95	5.000	0.09	54.56	50.00	1.161	1.064	1.09
17	1:49	0.95	5.000	0.11	53.08	50.00	1.140	1.074	1.06
18	1:54	0.96	120.000	0.00	490.85	500.00	0.132	0.135	0.98
19	2:17	0.96	5.000	0.14	52.61	50.00	1.453	1.381	1.05
20	2:31	0.96	10.000	0.05	50.23	50.00	0.231	0.230	1.00
21	3:01	0.96	5.000	0.18	50.96	50.00	1.264	1.240	1.02
22	3:13	0.96	10.000	0.10	57.97	50.00	0.050	0.043	1.16
23	3:33	0.96	5.000	0.21	54.69	50.00	2.196	2.008	1.09
24	3:34	0.97	5.000	0.15	53.19	50.00	0.614	0.577	1.06
25	3:46	0.96	5.000	0.15	51.10	50.00	0.663	0.648	1.02
26	4:07	0.96	5.000	0.17	48.30	50.00	0.663	0.684	0.97
27	4:15	0.96	5.000	0.26	49.08	50.00	1.570	1.399	0.98
28	4:53	0.95	100.000	0.01	478.94	500.00	0.012	0.013	0.96
29	9:46	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	5:13	0.96	5.000	0.21	46.93	50.00	0.478	0.509	0.94
31	5:34	0.96	5.000	0.22	48.92	50.00	0.256	0.261	0.98
32	5:45	0.97	5.000	0.35	45.94	50.00	1.594	1.735	0.92
33	6:10	0.97	5.000	0.25	48.06	50.00	0.642	0.668	0.96
34	6:53	0.97	10.000	0.14	46.31	50.00	0.166	0.179	0.93
35	6:55	0.97	5.000	0.28	46.21	50.00	0.643	0.696	0.92
36	7:24	0.97	15.000	0.05	51.47	50.00	0.383	0.373	1.03

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:20	0.98	5.000	0.15	47.22	50.00	1.006	1.065	0.94
38	8:00	0.98	5.000	0.33	48.06	50.00	0.378	0.393	0.96
39	8:15	0.98	5.000	0.34	50.51	50.00	0.394	0.390	1.01
40	8:22	0.98	10.000	0.09	46.13	50.00	0.660	0.715	0.92
41	8:11	0.98	5.000	0.17	46.87	50.00	0.656	0.700	0.94
42	8:55	0.98	15.000	0.06	50.93	50.00	0.152	0.149	1.02
43	8:50	0.98	5.000	0.37	58.17	50.00	0.564	0.485	1.16
44	8:52	0.98	5.000	0.37	58.73	50.00	0.383	0.326	1.17
45	9:48	0.98	5.000	0.20	49.47	50.00	0.838	0.847	0.99
46	10:06	0.98	5.000	0.42	49.04	50.00	0.327	0.333	0.98
47	10:08	0.99	5.000	0.21	47.91	50.00	0.399	0.416	0.96
48	11:05	0.92	5.000	0.21	48.71	50.00	0.514	0.559	0.97
49	10:23	1.05	5.000	0.23	47.37	50.00	0.490	0.518	0.95
50	11:10	0.99	5.000	0.23	48.68	50.00	0.882	0.906	0.97
51	11:26	0.99	5.000	0.48	48.33	50.00	0.512	0.530	0.97
52	12:13	0.99	15.000	0.17	48.43	50.00	0.090	0.093	0.97
53	12:38	0.99	15.000	0.09	47.01	50.00	0.177	0.188	0.94
54	12:44	0.99	5.000	0.26	50.53	50.00	0.374	0.370	1.01
55	12:13	1.04	15.000	0.09	50.42	50.00	0.081	0.080	1.01
56	16:45	0.99	10.000	0.17	96.76	100.00	0.220	0.228	0.97
57	4:09	0.96	5.000	0.25	47.67	50.00	1.339	1.404	0.95
58	12:07	0.99	5.000	0.25	49.42	50.00	0.603	0.610	0.99
59	7:14	0.98	5.000	0.15	47.03	50.00	1.532	1.629	0.94

RIC
05/08/98 21:40:00
SAMPLE: SWL UST0100 #1903 ON #19
CONDS.1

394888.



QUANTITATION REPORT FILE: CU90050BC19
DATA: CU90050BC19.T1
05/08/90 2:40:00
SAMPLE: 5ML VSTD100 #19D3 DN #19
CONDS.:
SUBMITTED BY: 19 ANALYST: 1539

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-9> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-9> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 04-1,2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
 59 #233 DB-TOLUENE WE#59 SS#2

*Over-run
 5/2/90*

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	128	257	3:13	1	1.000	A BB	25408.	50.000 UG/L	0.56
2	50	36	0:27	1	0.140	A BB	23019.	108.629 UG/L	1.22
3	62	41	0:31	1	0.160	A BV	31084.	112.793 UG/L	1.26
4	94	50	0:37	1	0.195	A BB	74952.	109.924 UG/L	1.19
5	64	54	0:40	1	0.210	A VB	55075.	123.774 UG/L	1.39
6	101	63	0:47	1	0.245	A BB	182004.	103.398 UG/L	1.16
7	56	88	1:06	1	0.342	A BV	61732.	1280.420 UG/L	14.33
8	96	87	1:03	1	0.339	A BV	77392.	111.911 UG/L	1.25
9	76	93	1:10	1	0.362	A BV	275251.	138.942 UG/L	1.55
10	142	93	1:10	1	0.362	A BB	179724.	79.536 UG/L	0.89
11	117	91	1:08	1	0.354	A BB	72335.	97.037 UG/L	1.09
12	85	93	1:10	1	0.362	A BB	86857.	126.915 UG/L	1.42
13	43	100	1:19	1	0.389	A BB	14971.	132.794 UG/L	1.49
14	114	381	4:46	14	1.000	A BB	100463.	50.000 UG/L	0.56
15	76	112	1:24	1	0.436	A VB	32821.	129.208 UG/L	1.45
16	84	122	1:31	1	0.475	A BB	67179.	124.205 UG/L	1.39
17	96	140	1:45	1	0.545	A BB	64868.	118.841 UG/L	1.33
18	53	148	1:51	1	0.576	A BB	74958.	1093.950 UG/L	12.24
19	63	176	2:12	1	0.685	A BB	78259.	111.485 UG/L	1.25
20	43	195	2:26	14	0.512	A BB	50300.	109.024 UG/L	1.22
21	96	234	2:55	1	0.911	A BB	62665.	99.438 UG/L	1.11
22	72	250	3:07	1	0.973	A BV	2817.	129.001 UG/L	1.44
23	83	276	3:27	1	1.074	A BB	111581.	109.355 UG/L	1.22
24	97	277	3:28	14	0.727	A BB	125283.	108.079 UG/L	1.21
25	117	293	3:40	14	0.769	A VB	133516.	107.485 UG/L	1.15
26	78	319	3:59	14	0.837	A BB	139343.	101.057 UG/L	1.13
27	62	330	4:07	1	1.284	A BB	80026.	98.477 UG/L	1.10
28	70	377	4:43	14	0.990	A BB	22964.	901.765 UG/L	10.09
29	117	771	9:38	29	1.000	A BB	64032.	50.000 UG/L	0.56
30	130	401	5:01	14	1.052	A BB	94417.	92.298 UG/L	1.03
31	63	429	5:22	14	1.126	A BB	47169.	89.854 UG/L	1.01
32	174	445	5:34	1	1.732	A BB	76806.	87.114 UG/L	0.97
33	83	480	6:00	14	1.260	A BB	130071.	96.922 UG/L	1.08
34	63	538	6:43	14	1.412	A BB	33376.	92.792 UG/L	1.04
35	75	541	6:46	14	1.420	A BB	127735.	91.388 UG/L	1.02
36	43	579	7:14	29	0.751	A BB	40657.	85.223 UG/L	0.95
37	92	574	7:10	29	0.744	A BB	125301.	91.885 UG/L	1.03
38	75	628	7:51	14	1.648	A BB	73086.	92.617 UG/L	1.04
39	97	649	8:07	14	1.703	A BB	69586.	85.692 UG/L	0.99
40	69	659	8:14	29	0.855	A BB	70155.	76.589 UG/L	0.86
41	164	644	8:03	29	0.835	A BB	74239.	82.825 UG/L	0.93

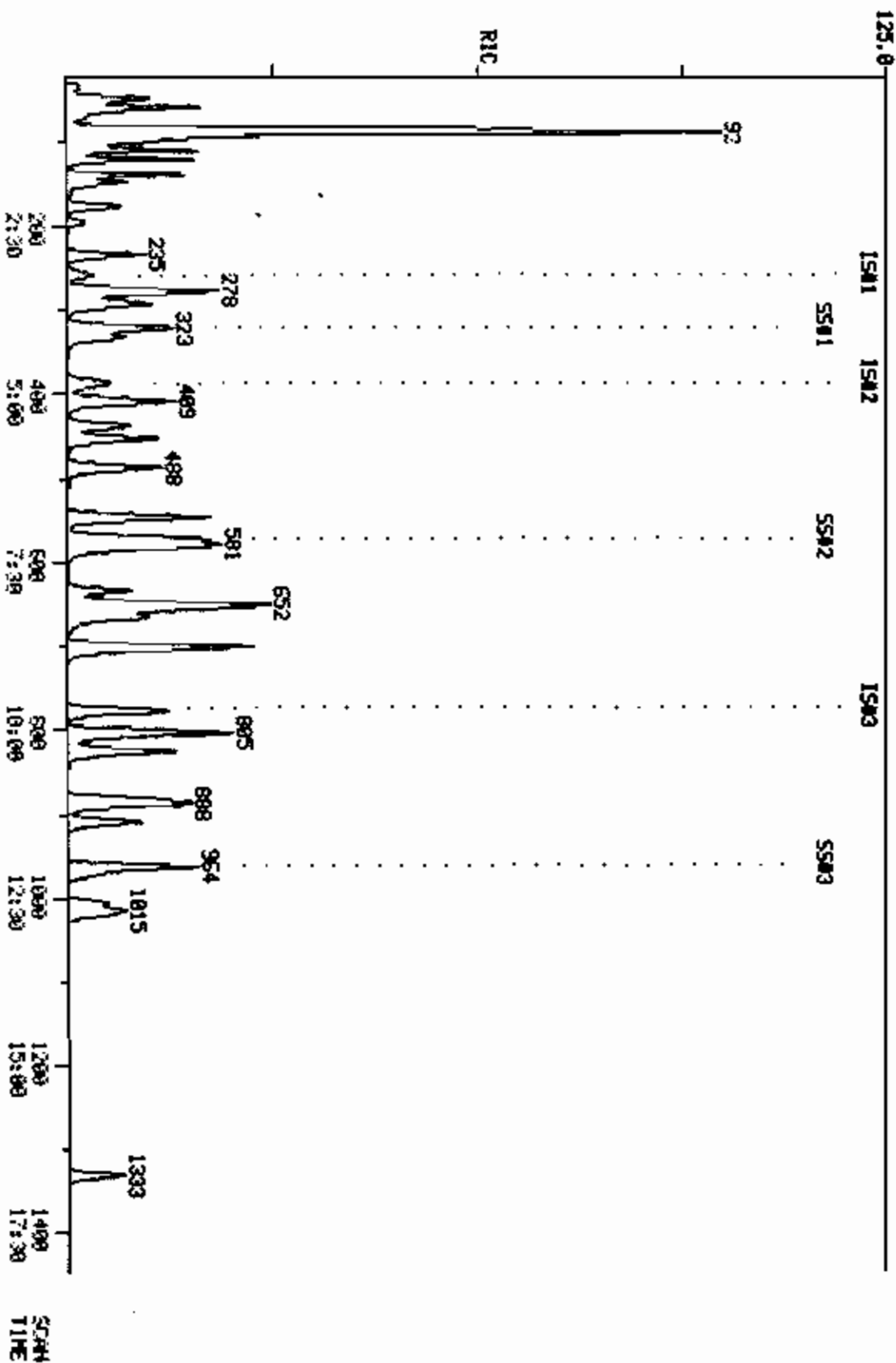
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
42	43	703	8:47	29	0.912	A BV	16870.	83.220 UG/L	0.99
43	129	696	8:42	14	1.827	A BB	95738.	98.220 UG/L	1.10
44	107	697	8:43	14	1.829	A BB	64103.	97.810 UG/L	1.09
45	112	773	9:40	29	1.003	A BB	104263.	96.141 UG/L	1.08
46	131	798	9:58	14	2.094	A BV	63428.	97.786 UG/L	1.09
47	106	800	10:00	29	1.038	A BV	53104.	99.686 UG/L	1.12
48	106	821	10:16	29	1.065	A BB	71908.	100.461 UG/L	1.12
49	106	878	10:58	29	1.139	A BB	69368.	104.641 UG/L	1.17
50	104	883	11:02	29	1.145	A BB	121942.	103.089 UG/L	1.18
51	173	904	11:18	14	2.373	A BB	93073.	89.288 UG/L	1.00
52	88	967	12:05	14	2.538	A BB	19168.	102.867 UG/L	1.15
53	110	1000	12:30	29	1.297	A BB	21900.	90.905 UG/L	1.02
54	83	1009	12:37	29	1.309	A BB	49068.	103.519 UG/L	1.16
55	53	1013	12:41	29	1.316	A BB	11153.	108.293 UG/L	1.21
56	157	1328	16:36	29	1.722	A BB	53492.	183.578 UG/L	2.05
57	65	321	4:01	1	1.249	A BB	73597.	103.125 UG/L	1.15
58	95	958	11:58	29	1.243	A BB	78475.	100.378 UG/L	1.12
59	98	567	7:05	29	0.733	A BB	187798.	90.011 UG/L	1.01

NO	RET (L)	RATIO	RRT (L)	RATIO	AMNT	AMNT (L)	R. FAC	R. FAC (L)	RATIO
1	3:19	0.97	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27	1.00	10.000	0.01	108.63	50.00	0.906	0.417	2.17
3	0:31	1.00	10.000	0.02	112.75	50.00	1.223	0.543	2.26
4	0:39	0.96	10.000	0.02	105.92	50.00	2.950	1.392	2.12
5	0:41	0.98	10.000	0.02	123.77	50.00	2.168	0.876	2.48
6	0:48	0.98	10.000	0.02	103.40	50.00	7.163	3.464	2.07
7	1:07	0.98	90.000	0.00	1280.42	500.00	0.243	0.095	2.56
8	1:07	0.97	5.000	0.07	111.91	50.00	3.016	1.361	2.24
9	1:12	0.97	5.000	0.07	138.94	50.00	10.833	3.898	2.78
10	1:11	0.98	10.000	0.04	79.54	50.00	7.074	4.447	1.59
11	1:10	0.97	10.000	0.04	97.04	50.00	2.847	1.467	1.94
12	1:11	0.98	10.000	0.04	126.91	50.00	3.419	1.347	2.54
13	1:16	0.98	10.000	0.04	132.79	50.00	0.587	0.222	2.66
14	4:58	0.96	5.000	0.20	50.00	50.00	1.050	1.000	1.00
15	1:27	0.97	15.000	0.03	129.21	50.00	1.292	0.500	2.58
16	1:34	0.97	5.000	0.09	124.20	50.00	2.614	1.064	2.48
17	1:49	0.97	5.000	0.11	118.84	50.00	2.553	1.074	2.38
18	1:54	0.97	120.000	0.00	1093.95	500.00	0.295	0.135	2.19
19	2:17	0.96	5.000	0.14	111.48	50.00	3.080	1.381	2.23
20	2:31	0.97	10.000	0.05	109.02	50.00	0.501	0.230	2.18
21	3:01	0.97	5.000	0.18	99.44	50.00	2.466	1.240	1.99
22	3:13	0.97	10.000	0.10	129.00	50.00	0.111	0.043	2.58
23	3:33	0.97	5.000	0.21	109.36	50.00	4.392	2.008	2.19
24	3:34	0.97	5.000	0.15	108.08	50.00	1.247	0.577	2.16
25	3:46	0.97	5.000	0.15	102.49	50.00	1.329	0.648	2.05
26	4:07	0.97	5.000	0.17	101.06	50.00	1.387	0.686	2.02
27	4:15	0.97	5.000	0.26	98.48	50.00	3.150	1.599	1.97
28	4:53	0.96	100.000	0.01	901.76	500.00	0.023	0.013	1.80
29	9:46	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	5:13	0.96	5.000	0.21	92.30	50.00	0.940	0.509	1.85
31	5:34	0.96	5.000	0.23	89.85	50.00	0.470	0.261	1.80
32	5:45	0.97	5.000	0.35	87.11	50.00	3.023	1.735	1.74
33	6:10	0.97	5.000	0.25	96.92	50.00	1.295	0.668	1.94
34	6:53	0.98	10.000	0.14	92.79	50.00	0.342	0.179	1.86
35	6:55	0.98	5.000	0.28	91.39	50.00	1.271	0.696	1.83
36	7:24	0.98	15.000	0.05	85.22	50.00	0.635	0.373	1.70

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:20	0.98	5.000	0.15	91.88	50.00	1.957	1.065	1.84
38	8:00	0.98	5.000	0.33	92.62	50.00	0.727	0.393	1.85
39	8:15	0.98	5.000	0.34	88.69	50.00	0.693	0.390	1.77
40	8:22	0.98	10.000	0.09	76.59	50.00	1.096	0.715	1.53
41	8:11	0.98	5.000	0.17	82.82	50.00	1.159	0.700	1.66
42	8:55	0.99	15.000	0.06	88.22	50.00	0.263	0.149	1.76
43	8:50	0.98	5.000	0.37	98.22	50.00	0.953	0.485	1.96
44	8:52	0.98	5.000	0.37	97.81	50.00	0.638	0.326	1.96
45	9:48	0.99	5.000	0.20	96.14	50.00	1.628	0.847	1.92
46	10:06	0.99	5.000	0.42	97.79	50.00	0.651	0.333	1.96
47	10:08	0.99	5.000	0.21	99.69	50.00	0.829	0.416	1.99
48	11:05	0.93	5.000	0.21	100.46	50.00	1.173	0.559	2.01
49	10:23	1.06	5.000	0.23	104.64	50.00	1.053	0.518	2.09
50	11:10	0.99	5.000	0.23	105.09	50.00	1.904	0.906	2.10
51	11:26	0.99	5.000	0.47	89.29	50.00	0.946	0.530	1.79
52	12:13	0.99	15.000	0.17	102.87	50.00	0.191	0.093	2.06
53	12:38	0.99	15.000	0.09	90.90	50.00	0.342	0.188	1.82
54	12:44	0.99	5.000	0.26	103.92	50.00	0.766	0.370	2.07
55	12:13	1.04	15.000	0.09	108.29	50.00	0.174	0.080	2.17
56	16:45	0.99	10.000	0.17	183.58	100.00	0.418	0.228	1.84
57	4:09	0.97	5.000	0.25	103.13	50.00	2.897	1.404	2.06
58	12:07	0.99	5.000	0.25	100.38	50.00	1.226	0.610	2.01
59	7:14	0.98	5.000	0.15	90.01	50.00	2.933	1.629	1.80

RIC
05/08/98 3:03:00
SAMPLE: CHL UST0130 11904 CH #19
CONDOS.:

609280.



QUANTITATION REPORT FILE: CV900508C19
DATA: CV900508C19.TI
05/08/90 3:03:00
SAMPLE: 5ML VST0150 #1904 DN #19
CONDS.:
SUBMITTED BY: 19 ANALYST: 1539

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 O5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE ,124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
 59 #233 O8-TOLUENE WE#59 SS#2

Of State 5/10

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	128	258	3:13	1	1.000	A BB	25222.	50.000 UG/L	0.35
2	90	36	0:27	1	0.140	A BB	27773.	132.030 UG/L	0.92
3	62	41	0:31	1	0.159	A BV	19882.	72.652 UG/L	0.51
4	94	51	0:38	1	0.198	A BB	106454.	151.552 UG/L	1.06
5	64	54	0:40	1	0.209	A VB	75927.	171.896 UG/L	1.20
6	101	62	0:46	1	0.240	A BB	252976.	114.777 UG/L	1.01
7	56	89	1:07	1	0.345	A BB	119313.	2497.160 UG/L	17.49
8	96	87	1:05	1	0.337	A BB	119391.	173.917 UG/L	1.22
9	76	92	1:09	1	0.357	A BV	432913.	220.139 UG/L	1.54
10	142	92	1:09	1	0.357	A BB	252883.	112.738 UG/L	0.79
11	117	91	1:08	1	0.353	A BB	111494.	150.672 UG/L	1.06
12	85	92	1:09	1	0.357	A BB	142371.	209.565 UG/L	1.47
13	43	101	1:16	1	0.391	A VB	24471.	218.657 UG/L	1.53
14	114	388	4:51	14	1.000	A BB	91898.	50.000 UG/L	0.35
15	76	112	1:24	1	0.434	A VB	54843.	217.496 UG/L	1.52
16	84	122	1:31	1	0.473	A BB	110731.	206.237 UG/L	1.44
17	96	140	1:45	1	0.543	A BB	102432.	189.044 UG/L	1.32
18	53	149	1:52	1	0.578	A BB	118177.	1737.400 UG/L	12.17
19	63	177	2:13	1	0.686	A BB	124308.	178.389 UG/L	1.25
20	43	196	2:27	14	0.505	A BB	73388.	173.891 UG/L	1.22
21	96	235	2:56	1	0.911	A BB	97655.	156.104 UG/L	1.09
22	72	253	3:10	1	0.981	A BB	4389.	202.471 UG/L	1.42
23	83	278	3:28	1	1.078	A BB	163418.	161.339 UG/L	1.13
24	97	279	3:29	14	0.719	A BB	178103.	167.966 UG/L	1.18
25	117	294	3:40	14	0.758	A VB	188553.	158.220 UG/L	1.11
26	78	322	4:01	14	0.830	A BB	191542.	151.861 UG/L	1.06
27	62	334	4:10	1	1.295	A BB	118290.	146.636 UG/L	1.03
28	70	384	4:48	14	0.990	A BB	29036.	1246.450 UG/L	8.73
29	117	776	9:42	29	1.000	A BB	63104.	50.000 UG/L	0.35
30	130	409	9:07	14	1.054	A BB	130101.	134.034 UG/L	0.97
31	63	438	5:28	14	1.129	A BB	68082.	141.779 UG/L	0.99
32	174	454	5:40	1	1.760	A BB	111834.	127.778 UG/L	0.90
33	83	488	6:06	14	1.258	A BB	188541.	153.585 UG/L	1.08
34	63	545	6:49	14	1.405	A BB	48754.	148.179 UG/L	1.04
35	75	548	6:51	14	1.412	A BB	193411.	151.272 UG/L	1.06
36	43	586	7:19	29	0.799	A BB	65623.	139.578 UG/L	0.98
37	92	581	7:16	29	0.749	A BB	189298.	140.856 UG/L	0.99
38	75	635	7:56	14	1.637	A BB	108482.	150.284 UG/L	1.05
39	97	656	8:12	14	1.691	A BB	109430.	152.474 UG/L	1.07
40	69	666	8:19	29	0.898	A BB	133900.	148.331 UG/L	1.04
41	164	651	8:08	29	0.839	A BB	106724.	120.819 UG/L	0.85

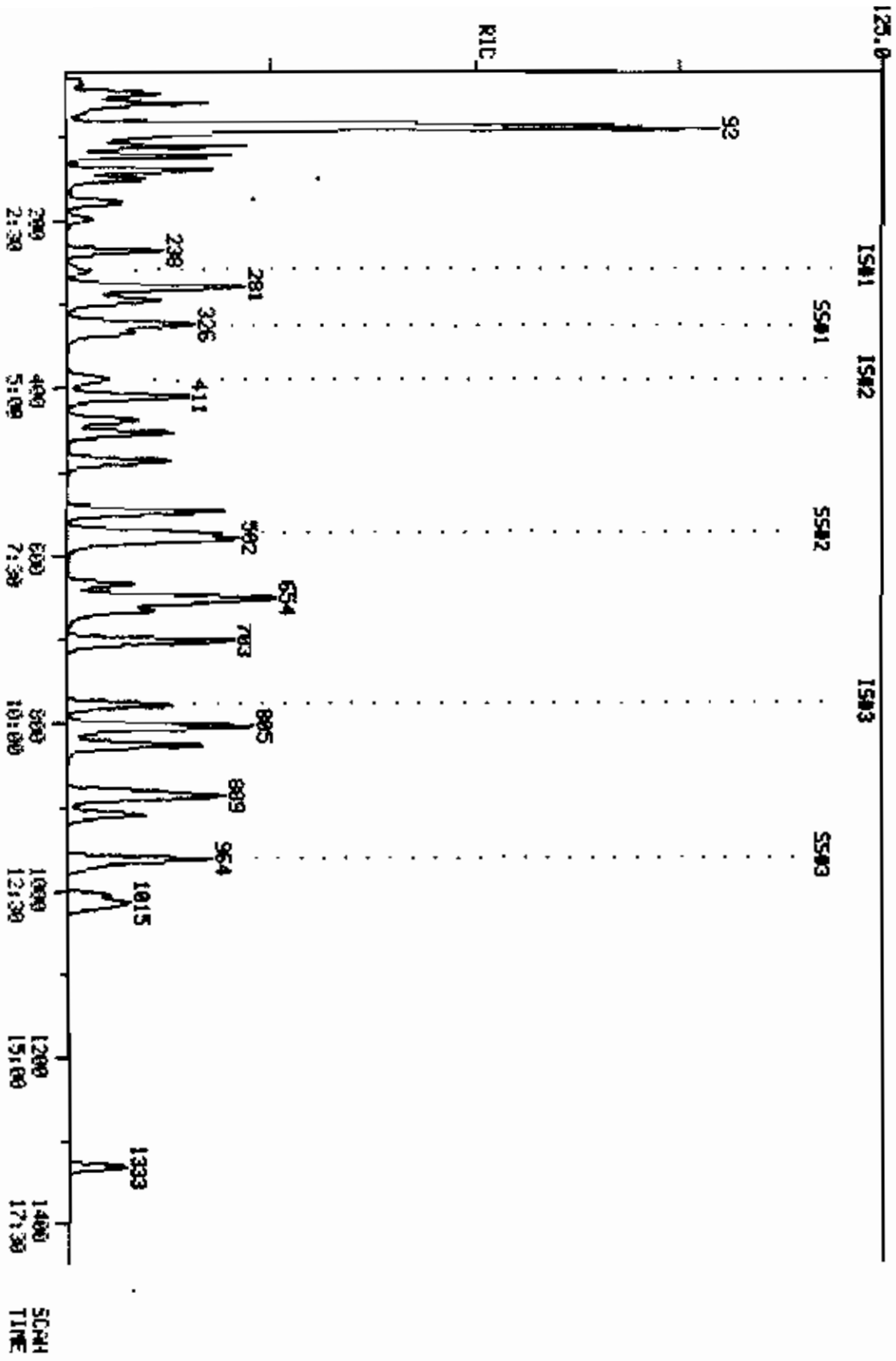
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HSHT)	AMOUNT	XTOT
42	43	709	8:52	29	0.914	A BB	33047.	175.357 UG/L	1.23
43	129	702	8:46	14	1.809	A BB	204109.	228.915 UG/L	1.60
44	107	703	8:47	14	1.812	A BB	165894.	276.705 UG/L	1.94
45	112	779	9:44	29	1.004	A BB	154869.	144.903 UG/L	1.02
46	131	803	10:02	14	2.070	A BV	97316.	159.000 UG/L	1.11
47	106	806	10:04	29	1.039	A BV	80686.	153.690 UG/L	1.08
48	106	826	10:19	29	1.064	A BB	101170.	143.422 UG/L	1.00
49	106	882	11:01	29	1.137	A BB	86785.	132.840 UG/L	0.93
50	104	889	11:07	29	1.146	A BB	178314.	155.930 UG/L	1.09
51	173	910	11:22	14	2.345	A BB	132270.	135.799 UG/L	0.95
52	88	973	12:10	14	2.508	A BB	29713.	174.320 UG/L	1.22
53	110	1006	12:34	29	1.296	A BB	31403.	132.268 UG/L	0.93
54	83	1015	12:41	29	1.308	A BB	72412.	155.012 UG/L	1.09
55	53	1021	12:46	29	1.316	A BB	17703.	174.420 UG/L	1.22
56	157	1333	16:40	29	1.718	A BB	75275.	262.135 UG/L	1.84
57	65	324	4:03	1	1.256	A BB	106274.	150.011 UG/L	1.05
58	95	964	12:03	29	1.242	A BB	127214.	165.115 UG/L	1.16
59	98	573	7:10	29	0.738	A BB	292573.	142.292 UG/L	1.00

NO	RET(L)	RATIO	RT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:19	0.97	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27	1.00	10.000	0.01	132.03	50.00	1.101	0.417	2.64
3	0:31	1.00	10.000	0.02	72.65	50.00	0.789	0.543	1.45
4	0:39	0.98	10.000	0.02	151.55	50.00	4.221	1.392	3.03
5	0:41	0.98	10.000	0.02	171.90	50.00	3.010	0.876	3.44
6	0:48	0.97	10.000	0.02	144.78	50.00	10.030	3.464	2.90
7	1:07	0.99	90.000	0.00	2497.16	500.00	0.474	0.095	4.99
8	1:07	0.97	5.000	0.07	173.92	50.00	4.734	1.361	3.48
9	1:12	0.96	5.000	0.07	220.14	50.00	17.164	3.898	4.40
10	1:11	0.97	10.000	0.04	112.74	50.00	10.026	4.447	2.25
11	1:10	0.97	10.000	0.04	150.67	50.00	4.421	1.467	3.01
12	1:11	0.97	10.000	0.04	209.97	50.00	5.645	1.347	4.19
13	1:16	0.99	10.000	0.04	218.66	50.00	0.970	0.222	4.37
14	4:58	0.97	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:27	0.97	15.000	0.03	217.50	50.00	2.174	0.500	4.35
16	1:34	0.97	5.000	0.09	206.24	50.00	4.390	1.064	4.12
17	1:49	0.97	5.000	0.11	189.04	50.00	4.061	1.074	3.78
18	1:54	0.98	120.000	0.00	1737.41	500.00	0.469	0.135	3.47
19	2:17	0.97	5.000	0.14	178.39	50.00	4.929	1.381	3.57
20	2:31	0.98	10.000	0.05	173.89	50.00	0.799	0.230	3.48
21	3:01	0.97	5.000	0.18	156.10	50.00	3.872	1.240	3.12
22	3:13	0.98	10.000	0.10	202.47	50.00	0.174	0.043	4.05
23	3:33	0.98	5.000	0.22	161.34	50.00	6.479	2.008	3.23
24	3:34	0.98	5.000	0.14	167.97	50.00	1.938	0.577	3.36
25	3:46	0.97	5.000	0.15	158.22	50.00	2.052	0.648	3.16
26	4:07	0.98	5.000	0.17	151.86	50.00	2.084	0.686	3.04
27	4:15	0.98	5.000	0.26	146.64	50.00	4.690	1.599	2.93
28	4:53	0.98	100.000	0.01	1246.46	500.00	0.032	0.013	2.49
29	9:46	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	5:13	0.98	5.000	0.21	139.03	50.00	1.416	0.509	2.78
31	5:34	0.98	5.000	0.23	141.78	50.00	0.741	0.261	2.84
32	5:45	0.99	5.000	0.35	127.78	50.00	4.434	1.735	2.56
33	6:10	0.99	5.000	0.25	153.59	50.00	2.052	0.668	3.07
34	6:53	0.99	10.000	0.14	148.18	50.00	0.531	0.179	2.96
35	6:55	0.99	5.000	0.28	151.27	50.00	2.105	0.696	3.03
36	7:24	0.99	15.000	0.05	139.58	50.00	1.040	0.373	2.79

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:20	0.99	5.000	0.15	140.86	50.00	3.000	1.065	2.82
38	8:00	0.99	5.000	0.33	150.28	50.00	1.180	0.393	3.01
39	8:15	0.99	5.000	0.34	152.47	50.00	1.191	0.390	3.05
40	8:22	0.99	10.000	0.09	148.33	50.00	2.122	0.715	2.97
41	8:11	0.99	5.000	0.17	120.82	50.00	1.691	0.700	2.42
42	8:55	0.99	15.000	0.06	175.36	50.00	0.524	0.149	3.51
43	8:50	0.99	5.000	0.36	228.91	50.00	2.221	0.485	4.58
44	8:52	0.99	5.000	0.36	276.70	50.00	1.805	0.326	5.53
45	9:48	0.99	5.000	0.20	144.90	50.00	2.451	0.847	2.90
46	10:06	0.99	5.000	0.41	159.00	50.00	1.059	0.333	3.18
47	10:08	0.99	5.000	0.21	153.69	50.00	1.279	0.416	3.07
48	11:05	0.93	5.000	0.21	143.42	50.00	1.603	0.559	2.87
49	10:23	1.06	5.000	0.23	132.84	50.00	1.375	0.518	2.66
50	11:10	0.99	5.000	0.23	155.93	50.00	2.826	0.906	3.12
51	11:26	0.99	5.000	0.47	135.80	50.00	1.439	0.530	2.72
52	12:13	1.00	15.000	0.17	174.32	50.00	0.323	0.093	3.49
53	12:38	1.00	15.000	0.09	132.27	50.00	0.498	0.188	2.65
54	12:44	1.00	5.000	0.26	155.01	50.00	1.148	0.370	3.10
55	12:13	1.05	15.000	0.09	174.42	50.00	0.281	0.080	3.49
56	16:45	0.99	10.000	0.17	262.13	100.00	0.596	0.228	2.62
57	4:09	0.98	5.000	0.25	150.01	50.00	4.214	1.404	3.00
58	12:07	0.99	5.000	0.25	165.12	50.00	2.016	0.610	3.30
59	7:14	0.99	5.000	0.15	142.29	50.00	4.636	1.629	2.85

RIC
03/08/90 4:00:00
SAMPLE: OIL VST0200 01905 OH 019
COND5.:

757760.



QUANTITATION REPORT FILE: CW900508C19
DATA: CW900508C19.TI
05/08/90 4:00:00
SAMPLE: 5ML VSTD200 #1905 DN #19
CONDS.:
SUBMITTED BY: 19 ANALYST: 1539

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (19) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-38-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (15) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (19) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE (100-41-4) WE#47
 48 330 M,P-XYLENE (133-02-7) WE#48
 49 239 O-XYLENE (133-02-7) WE#49
 50 251 STYRENE (100-42-5) WE#50
 51 205 BROMOFORM (79-29-2) WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE (764-71-0) WE#52
 53 275 1,2,3-TRICHLOROPROPANE (96-18-4) WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE (79-34-5) WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE (110-57-6) WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE (96-12-8) WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE (460-00-4) WE#58 SB#3
 59 #233 D8-TOLUENE WE#59 SS#2

*Check
5/2/90*

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	261	3:16	1	1.000	A BB	26942.	50.000 UG/L	0.27
2	50	36	0:27	1	0.138	A BB	41815.	186.094 UG/L	0.99
3	62	40	0:30	1	0.153	A BB	61277.	209.619 UG/L	1.12
4	94	50	0:37	1	0.192	A BB	148882.	198.423 UG/L	1.06
5	64	54	0:40	1	0.207	A VB	110256.	233.679 UG/L	1.24
6	101	63	0:47	1	0.241	A BB	338843.	181.538 UG/L	0.97
7	56	90	1:07	1	0.345	A BB	155846.	3048.450 UG/L	16.24
8	96	88	1:06	1	0.337	A BB	129404.	176.469 UG/L	0.94
9	76	93	1:10	1	0.356	A BV	566596.	269.724 UG/L	1.44
10	142	93	1:10	1	0.356	A BB	304976.	127.281 UG/L	0.68
11	117	91	1:08	1	0.349	A BB	130950.	169.667 UG/L	0.88
12	85	92	1:09	1	0.352	A BB	187126.	257.858 UG/L	1.37
13	43	104	1:18	1	0.398	A VB	47698.	398.996 UG/L	2.13
14	114	391	4:53	14	1.000	A BB	97818.	50.000 UG/L	0.27
15	76	113	1:25	1	0.433	A VB	85305.	316.703 UG/L	1.69
16	84	124	1:33	1	0.475	A BB	165188.	228.022 UG/L	1.33
17	96	141	1:46	1	0.540	A BB	194212.	266.437 UG/L	1.42
18	53	152	1:54	1	0.582	A BB	190927.	2627.770 UG/L	14.00
19	63	179	2:14	1	0.686	A BB	172876.	232.249 UG/L	1.24
20	43	199	2:29	14	0.509	A BB	131195.	292.047 UG/L	1.56
21	96	238	2:58	1	0.912	A BB	143360.	214.534 UG/L	1.14
22	72	255	3:11	1	0.977	A BB	6269.	270.736 UG/L	1.44
23	83	281	3:31	1	1.077	A BB	238790.	220.702 UG/L	1.18
24	97	281	3:31	14	0.719	A BB	252888.	224.060 UG/L	1.19
25	117	297	3:43	14	0.760	A VB	253311.	199.695 UG/L	1.06
26	78	324	4:03	14	0.829	A BB	280654.	209.045 UG/L	1.11
27	62	339	4:11	1	1.284	A BB	177612.	206.119 UG/L	1.10
28	70	387	4:50	14	0.990	A BB	40847.	1617.350 UG/L	8.78
29	117	777	9:43	29	1.000	A BB	66388.	50.000 UG/L	0.27
30	130	410	5:07	14	1.049	A BB	177021.	177.726 UG/L	0.95
31	63	438	5:28	14	1.120	A BB	94878.	189.624 UG/L	0.99
32	174	454	5:40	1	1.739	A BB	147531.	157.802 UG/L	0.84
33	83	488	6:06	14	1.248	A BB	254157.	194.505 UG/L	1.04
34	63	546	6:49	14	1.396	A BB	66826.	190.812 UG/L	1.02
35	75	549	6:52	14	1.404	A BB	262597.	192.954 UG/L	1.03
36	43	584	7:19	29	0.754	A BB	81590.	161.953 UG/L	0.88
37	92	582	7:16	29	0.749	A BB	253061.	178.987 UG/L	0.95
38	75	636	7:57	14	1.627	A BB	141303.	183.904 UG/L	0.98
39	97	656	8:12	14	1.678	A BB	141863	185.702 UG/L	0.99
40	69	667	8:20	29	0.898	A BB	175135.	184.412 UG/L	0.98
41	164	651	8:08	29	0.838	A BB	133439.	143.589 UG/L	0.76

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
42	43	709	8:52	29	0.912	A BB	33987.	171.427 UG/L	0.91
43	129	703	8:47	14	1.798	A BB	228207.	210.452 UG/L	1.28
44	107	704	8:48	14	1.801	A BB	175173.	274.498 UG/L	1.46
45	112	780	9:45	29	1.004	A BB	207900.	184.898 UG/L	0.99
46	131	803	10:02	14	2.054	A BV	133777.	205.342 UG/L	1.09
47	106	806	10:04	29	1.037	A BV	110344.	199.784 UG/L	1.06
48	106	827	10:20	29	1.064	A BB	152244.	205.149 UG/L	1.09
49	106	884	11:03	29	1.138	A BB	131731.	191.663 UG/L	1.02
50	104	889	11:07	29	1.144	A BB	265899.	271.018 UG/L	1.18
51	173	910	11:22	14	2.327	A BB	164993.	159.143 UG/L	0.85
52	88	972	12:09	14	2.486	A BB	40398.	222.662 UG/L	1.19
53	110	1005	12:34	29	1.293	A BB	41663.	166.801 UG/L	0.89
54	83	1015	12:41	29	1.306	A BB	96461.	192.279 UG/L	1.05
55	53	1020	12:45	29	1.313	A BB	24955.	233.707 UG/L	1.25
56	157	1333	16:40	29	1.716	A BB	93668.	316.668 UG/L	1.69
57	65	327	4:05	1	1.253	A BB	161815.	213.828 UG/L	1.14
58	95	964	12:03	29	1.241	A BB	182574.	225.244 UG/L	1.20
59	98	574	7:10	29	0.739	A BB	394634.	182.435 UG/L	0.97

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:19	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27	1.00	10.000	0.01	186.09	50.00	1.552	0.417	3.72
3	0:31	0.98	10.000	0.02	209.62	50.00	2.274	0.543	4.19
4	0:39	0.96	10.000	0.02	198.42	50.00	5.526	1.392	3.97
5	0:41	0.99	10.000	0.02	233.68	50.00	4.092	0.876	4.67
6	0:48	0.98	10.000	0.02	181.54	50.00	12.577	3.464	3.63
7	1:07	1.00	90.000	0.00	3048.45	500.00	0.578	0.095	6.10
8	1:07	0.98	5.000	0.07	176.47	50.00	4.803	1.361	3.53
9	1:12	0.97	5.000	0.07	269.72	50.00	21.030	3.898	5.39
10	1:11	0.98	10.000	0.04	127.28	50.00	11.320	4.447	2.55
11	1:10	0.97	10.000	0.03	163.67	50.00	4.820	1.467	3.31
12	1:11	0.97	10.000	0.04	257.86	50.00	6.946	1.347	5.16
13	1:16	1.02	10.000	0.04	399.00	50.00	1.770	0.222	7.98
14	4:58	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:27	0.97	15.000	0.03	316.70	50.00	3.166	0.500	6.33
16	1:34	0.98	5.000	0.10	288.02	50.00	6.131	1.064	5.76
17	1:49	0.97	5.000	0.11	266.44	50.00	5.724	1.074	5.33
18	1:54	1.00	120.000	0.00	2627.77	500.00	0.709	0.135	5.26
19	2:17	0.98	5.000	0.14	232.25	50.00	6.417	1.381	4.64
20	2:31	0.99	10.000	0.05	292.05	50.00	1.341	0.230	5.84
21	3:01	0.98	5.000	0.18	214.53	50.00	5.321	1.240	4.29
22	3:13	0.99	10.000	0.10	270.74	50.00	0.243	0.043	5.41
23	3:33	0.99	5.000	0.22	220.70	50.00	8.863	2.008	4.41
24	3:34	0.98	5.000	0.14	224.06	50.00	2.585	0.577	4.48
25	3:46	0.98	5.000	0.15	199.69	50.00	2.590	0.648	3.99
26	4:07	0.98	5.000	0.17	209.04	50.00	2.869	0.686	4.18
27	4:15	0.99	5.000	0.26	206.12	50.00	6.592	1.599	4.12
28	4:53	0.99	100.000	0.01	1647.35	500.00	0.042	0.013	3.29
29	9:46	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	5:13	0.98	5.000	0.21	177.73	50.00	1.810	0.509	3.55
31	5:34	0.98	5.000	0.22	185.62	50.00	0.970	0.261	3.71
32	5:45	0.99	5.000	0.35	157.80	50.00	5.476	1.735	3.16
33	6:10	0.99	5.000	0.25	194.51	50.00	2.598	0.668	3.89
34	6:53	0.99	10.000	0.14	190.81	50.00	0.683	0.179	3.82
35	6:55	0.99	5.000	0.28	192.95	50.00	2.685	0.696	3.86
36	7:24	0.99	15.000	0.05	164.95	50.00	1.229	0.373	3.30

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:20	0.99	5.000	0.15	178.99	50.00	3.812	1.065	3.58
38	8:00	0.99	5.000	0.33	183.90	50.00	1.445	0.393	3.68
39	8:15	0.99	5.000	0.34	185.70	50.00	1.450	0.390	3.71
40	8:22	1.00	10.000	0.09	184.41	50.00	2.638	0.715	3.69
41	8:11	0.99	5.000	0.17	143.99	50.00	2.010	0.700	2.87
42	8:55	0.99	15.000	0.06	171.43	50.00	0.512	0.149	3.43
43	8:50	0.99	5.000	0.36	240.45	50.00	2.332	0.485	4.81
44	8:52	0.99	5.000	0.36	274.50	50.00	1.791	0.326	5.49
45	9:48	0.99	5.000	0.20	184.90	50.00	3.132	0.847	3.70
46	10:06	0.99	5.000	0.41	205.34	50.00	1.368	0.333	4.11
47	10:08	0.99	5.000	0.21	199.78	50.00	1.662	0.416	4.00
48	11:05	0.93	5.000	0.21	205.15	50.00	2.292	0.559	4.10
49	10:23	1.06	5.000	0.23	191.66	50.00	1.984	0.518	3.83
50	11:10	0.99	5.000	0.23	221.02	50.00	4.005	0.906	4.42
51	11:26	0.99	5.000	0.47	159.14	50.00	1.687	0.530	3.18
52	12:13	0.99	15.000	0.17	222.66	50.00	0.413	0.093	4.45
53	12:38	0.99	15.000	0.09	166.80	50.00	0.628	0.188	3.34
54	12:44	1.00	5.000	0.26	196.28	50.00	1.453	0.370	3.93
55	12:13	1.04	15.000	0.09	233.71	50.00	0.376	0.080	4.67
56	16:45	0.99	10.000	0.17	316.67	100.00	0.721	0.228	3.17
57	4:09	0.98	5.000	0.25	213.83	50.00	6.006	1.404	4.28
58	12:07	0.99	5.000	0.25	225.24	50.00	2.750	0.610	4.50
59	7:14	0.99	5.000	0.15	182.43	50.00	5.914	1.629	3.65

V-5

INITIAL TIME OF TUNE 0:59
TIME TUNE EXPIRES 12:59

SHIFT (A) (B) (C) ✓
DATE 5/8/90
ANALYSIS TYPE GUESS

PREVENTIVE MAINTENANCE None SW 5/8/90

LINE NO.	FILE NAME	DATE	TIME	EPA ID	CASE NO.	STD ID #	AMOUNT RECEIVED	CHEMIST	COMMENTS (UL #, Dispersion, Etc.)
1	BF900508C19	5/8/90	0:57	BBB	--	7008	4.6	1539	
2	CS900508C19	5/8/90	1:18	US1002D	--	1901	5.4	1539	
3	CT900508C19	5/8/90	2:07	US1005D	--	1902	5.4	1539	
4	CU900508C19	5/8/90	2:40	VST0100	--	1903	5.4	1539	
5	CV900508C19	5/8/90	3:03	VST0150	--	1904	5.4	1539	
6	CW900508C19	5/8/90	4:00	VST0200	--	1905	5.4	1539	
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23									
24									

Multiport packed

5/8/90

VERIFIED D. S. R. 5/8/90
SUPERVISOR APPROVAL [Signature] 5/8/90

(2) Continuing Calibration (Form VII VOA) - In order by instrument, if more than one instrument used.

(a) VOA standard (s) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for all continuing (12 hour) calibrations. Spectra are not required.

(b) When more than one continuing calibration is performed, forms must be chronological order, within fraction and instrument.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Instrument ID: 19 Calibration date: 05/15/90 Time: 1757
 Lab File ID: CT900515B19 Init. Calib. Date(s): 05/08/90 05/08/90
 Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP
 Min RRF50 for SPCC(†) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	0.429	0.400	6.8
Bromomethane	1.395	0.813	41.7
Vinyl Chloride	0.535	0.503	6.0
Chloroethane	0.958	0.918	4.2
Methylene Chloride	1.333	1.162	12.8
Acetone	0.280	0.336	-20.0
Carbon Disulfide	4.788	4.561	4.7
1,1-Dichloroethane	1.372	1.664	-21.3
1,1-Dichloroethane	1.524	1.329	12.8
1,2-Dichloroethane (total)	2.536	2.277	10.2
Chloroform	2.190	2.050	6.4
1,2-Dichloroethane	1.608	1.415	12.0
2-Butanone	0.047	0.067	-42.6
1,1,1-Trichloroethane	0.632	0.546	13.6
Carbon Tetrachloride	0.673	0.634	5.8
Vinyl Acetate	0.275	0.332	-20.7
Bromodichloromethane	0.664	0.767	-15.5
1,2-Dichloropropane	0.253	0.228	9.9
cis-1,3-Dichloropropene	0.670	0.698	-4.2
Trichloroethene	0.481	0.515	-7.1
Dibromochloromethane	0.594	0.749	-26.1
1,1,2-Trichloroethane	0.388	0.450	-16.0
Benzene	0.692	0.592	14.5
Trans-1,3-Dichloropropene	0.380	0.427	-12.4
Bromoform	0.484	0.618	-27.7
4-Methyl-2-Pentanone	0.343	0.414	-20.7
2-Hexanone	0.152	0.200	-31.6
Tetrachloroethene	0.605	0.814	-14.6
1,1,2,2-Tetrachloroethane	0.378	0.384	-1.6
Toluene	1.006	0.986	2.0
Chlorobenzene	0.835	0.829	0.7
Ethylbenzene	0.420	0.391	6.9
Styrene	0.942	0.961	-2.0
Total Xylenes	1.096	1.077	1.7
Toluene-d8	1.525	1.532	-0.5
BFB	0.635	0.596	6.1
1,2-Dichloroethane-d4	1.413	1.317	6.8

FORM VII VOA

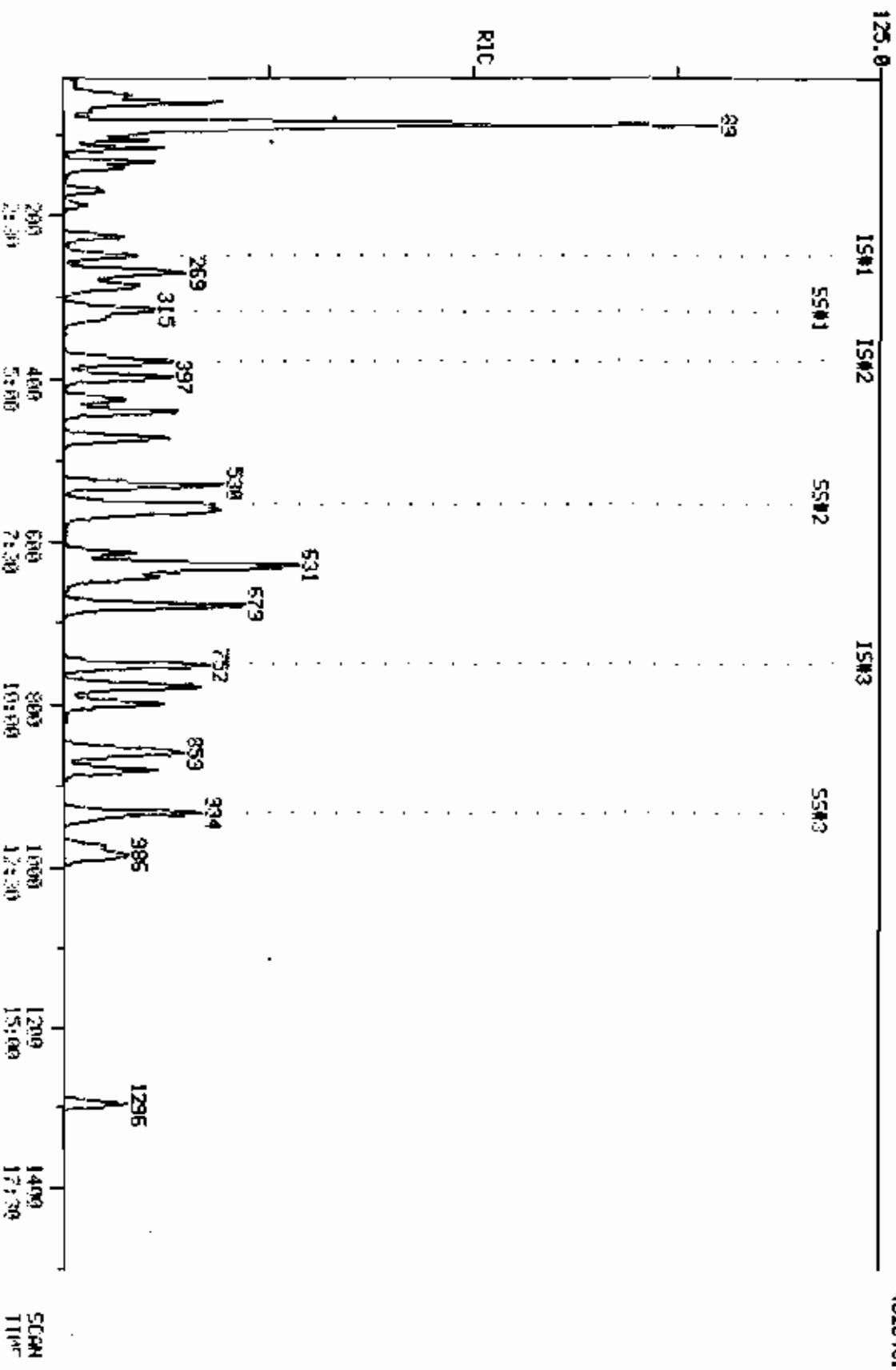
1/87 Rev.

COMPUchem LABS

COMPUchem DATA CT9809515919 SCAN5 31 TO 1509

RIC
05/15/90 17:57:00
SAMPLE: SML 05100528 LOT #1302 CH 02#13
COND5.:

432648.



QUANTITATION REPORT FILE: CT900515B19
DATA: CT900515B19.TI
03/15/90 17:57:00
SAMPLE: 5ML VSTD050 LOT #1902 ON OWA#19
CONDS.:
SUBMITTED BY: 19 ANALYST: 1095

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (16) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	255 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-88-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 O5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 OIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	219 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-19-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 OIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO	NAME
47	219 ETHYLBENZENE <100-41-4> WE#47
48	300 M. P-XYLENE <133-02-7> WE#48
49	239 O-XYLENE <133-02-7> WE#49
50	251 STYRENE <100-42-5> WE#50
51	205 BROMOFORM <75-25-2> WE#51
52	274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
53	275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
54	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
55	290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
56	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
57	#258 04-1,2-DICHLOROETHANE WE#57 SS#1
58	#247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
59	#233 DB-TOLUENE WE#59 SS#2

SDW:qman
5-17-90

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	XTOT
1	128	249	3:07	1	1.000	A BB	50617.	50.000 UG/L	1.02
2	50	36	0:27	1	0.145	A BB	20246.	26.998 UG/L	1.78
3	62	44	0:33	1	0.177	A BV	25474.	71.659 UG/L	1.46
4	94	50	0:37	1	0.201	A BV	41141.	61.303 UG/L	1.29
5	64	50	0:40	1	0.213	A VB	46475.	73.462 UG/L	1.50
6	101	61	0:46	1	0.245	A BB	199966.	52.739 UG/L	1.08
7	56	85	1:04	1	0.341	A BB	47889.	62.180 UG/L	12.31
8	96	84	1:03	1	0.337	A BB	84218.	51.832 UG/L	1.06
9	76	89	1:07	1	0.357	A BV	230851.	57.034 UG/L	1.17
10	142	89	1:07	1	0.357	A BB	231400.	59.105 UG/L	1.21
11	117	88	1:06	1	0.353	A BB	83913.	56.572 UG/L	1.16
12	85	89	1:07	1	0.357	A BB	83082.	58.406 UG/L	1.19
13	43	96	1:12	1	0.386	A VV	16989.	56.342 UG/L	1.15
14	114	378	4:43	14	1.000	A BB	198455.	50.000 UG/L	1.02
15	76	108	1:21	1	0.434	A VB	24857.	58.799 UG/L	1.20
16	84	117	1:28	1	0.470	A BV	58833.	55.319 UG/L	1.10
17	96	133	1:40	1	0.504	A BB	58164.	51.943 UG/L	1.06
18	53	140	1:45	1	0.562	A BB	77778.	530.356 UG/L	10.84
19	63	169	2:07	1	0.679	A BB	67278.	56.246 UG/L	1.15
20	43	187	2:20	14	0.495	A BV	65955.	64.218 UG/L	1.31
21	96	226	2:49	1	0.908	A BB	57086.	50.000 UG/L	1.23
22	72	241	3:01	1	0.968	A BB	3387.	67.206 UG/L	1.37
23	83	268	3:21	1	1.076	A BB	103761.	49.042 UG/L	1.00
24	97	269	3:22	14	0.712	A BB	108356.	47.809 UG/L	0.98
25	117	286	3:34	14	0.757	A VB	125849.	48.098 UG/L	0.98
26	78	314	3:55	14	0.831	A BB	117551.	48.719 UG/L	1.00
27	62	325	4:04	1	1.305	A BB	71624.	45.434 UG/L	0.93
28	70	371	4:38	14	0.981	A BB	31067.	578.383 UG/L	11.82
29	117	750	9:22	29	1.000	A BB	137126.	50.000 UG/L	1.02
30	130	397	4:58	14	1.050	A BB	102199.	52.111 UG/L	1.07
31	63	424	5:18	14	1.122	A BB	45274.	50.321 UG/L	1.03
32	174	439	5:29	1	1.763	A BB	117013.	52.905 UG/L	1.08
33	83	473	5:55	14	1.251	A BB	152144.	60.505 UG/L	1.24
34	63	529	6:37	14	1.399	A BB	39361.	55.441 UG/L	1.13
35	75	531	6:38	14	1.405	A BB	138620.	54.933 UG/L	1.12
36	43	566	7:04	29	0.755	A BB	56819.	58.298 UG/L	1.19
37	92	562	7:01	29	0.749	A BB	135229.	49.700 UG/L	1.02
38	75	615	7:41	14	1.627	A BB	84755.	53.114 UG/L	1.09
39	97	634	7:55	14	1.677	A BB	89216.	54.413 UG/L	1.11
40	69	645	8:04	29	0.860	A BB	112523.	53.643 UG/L	1.10
41	164	628	7:51	29	0.837	A BB	111671.	48.644 UG/L	0.99

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	ZTOT
42	43	686	8:34	29	0.915	A BB	27426.	69.861 UG/L	1.43
43	129	679	8:29	14	1.796	A BB	148732.	71.337 UG/L	1.46
44	107	679	8:29	14	1.796	A BB	111201.	74.935 UG/L	1.53
45	112	753	9:25	29	1.004	A BB	113673.	51.017 UG/L	1.04
46	131	777	9:43	14	2.056	A BV	68966.	54.844 UG/L	1.12
47	106	780	9:45	29	1.040	A BV	53573.	50.378 UG/L	1.03
48	106	800	10:00	29	1.067	A VB	76227.	54.538 UG/L	1.11
49	106	855	10:41	29	1.140	A BV	71428.	54.097 UG/L	1.11
50	104	861	10:46	29	1.148	A BB	131732.	53.459 UG/L	1.09
51	173	881	11:01	14	2.331	A BB	122575.	54.425 UG/L	1.11
52	88	944	11:48	14	2.497	A BB	21902.	55.379 UG/L	1.13
53	110	976	12:12	29	1.301	A BB	26772.	51.484 UG/L	1.05
54	83	984	12:18	29	1.312	A BB	52608.	52.442 UG/L	1.07
55	53	991	12:23	29	1.321	A BB	12968.	53.156 UG/L	1.09
56	157	1296	16:12	29	1.728	A BB	67284.	104.933 UG/L	2.14
57	65	316	3:57	1	1.269	A BB	66673.	43.184 UG/L	0.89
58	95	934	11:40	29	1.245	A BB	81749.	50.273 UG/L	1.03
59	98	554	6:55	29	0.739	A BB	210098.	50.082 UG/L	1.02

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:05	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26	1.03	10.000	0.01	87.00	50.00	0.403	0.230	1.74
3	0:30	1.10	10.000	0.02	71.66	50.00	0.503	0.351	1.43
4	0:37	1.02	10.000	0.02	61.30	50.00	0.813	0.663	1.23
5	0:38	1.04	10.000	0.02	73.46	50.00	0.918	0.625	1.47
6	0:45	1.02	10.000	0.02	52.74	50.00	3.951	3.745	1.05
7	1:03	1.01	90.000	0.00	602.18	500.00	0.095	0.079	1.20
8	1:02	1.01	5.000	0.07	51.83	50.00	1.664	1.605	1.04
9	1:06	1.01	5.000	0.07	57.03	50.00	4.561	3.998	1.14
10	1:06	1.01	10.000	0.04	59.10	50.00	4.572	3.868	1.18
11	1:05	1.01	10.000	0.04	56.57	50.00	1.659	1.465	1.13
12	1:05	1.02	10.000	0.04	58.41	50.00	1.641	1.405	1.17
13	1:10	1.02	10.000	0.04	56.34	50.00	0.336	0.298	1.13
14	4:41	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:19	1.02	15.000	0.03	58.80	50.00	0.491	0.418	1.18
16	1:27	1.01	5.000	0.09	55.32	50.00	1.162	1.051	1.11
17	1:09	1.01	5.000	0.11	51.94	50.00	1.149	1.106	1.04
18	1:44	1.01	120.000	0.00	530.36	500.00	0.154	0.145	1.06
19	2:05	1.01	5.000	0.14	56.25	50.00	1.329	1.182	1.12
20	2:19	1.01	10.000	0.05	64.22	50.00	0.332	0.259	1.28
21	2:49	1.00	5.000	0.18	60.00	50.00	1.128	0.940	1.20
22	3:01	1.00	10.000	0.10	67.21	50.00	0.067	0.050	1.34
23	3:19	1.01	5.000	0.22	49.04	50.00	2.050	2.090	0.98
24	3:21	1.00	5.000	0.14	47.81	50.00	0.516	0.571	0.96
25	3:33	1.01	5.000	0.15	48.10	50.00	0.674	0.659	0.96
26	3:32	1.01	5.000	0.17	48.72	50.00	0.592	0.608	0.97
27	4:01	1.01	5.000	0.26	45.43	50.00	1.415	1.557	0.91
28	4:37	1.00	100.000	0.01	578.08	500.00	0.016	0.014	1.16
29	9:22	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:56	1.01	5.000	0.21	52.11	50.00	0.515	0.494	1.04
31	5:16	1.00	5.000	0.22	50.32	50.00	0.228	0.227	1.01
32	5:28	1.00	5.000	0.35	52.50	50.00	2.312	2.185	1.06
33	5:53	1.00	5.000	0.25	60.51	50.00	0.767	0.634	1.21
34	6:36	1.00	10.000	0.14	55.44	50.00	0.198	0.179	1.11
35	6:37	1.00	5.000	0.28	54.93	50.00	0.698	0.636	1.10
36	7:05	1.00	15.000	0.05	58.30	50.00	0.414	0.355	1.17

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:01	1.00	5.000	0.19	49.70	50.00	0.986	0.992	0.99
38	7:40	1.00	5.000	0.33	53.11	50.00	0.427	0.402	1.06
39	7:55	1.00	5.000	0.34	54.41	50.00	0.450	0.413	1.09
40	8:03	1.00	10.000	0.09	53.64	50.00	0.621	0.769	1.07
41	7:50	1.00	5.000	0.17	48.64	50.00	0.814	0.837	0.97
42	8:04	1.00	15.000	0.06	69.86	50.00	0.200	0.143	1.40
43	8:28	1.00	5.000	0.36	71.34	50.00	0.749	0.525	1.43
44	8:28	1.00	5.000	0.36	74.94	50.00	0.550	0.374	1.50
45	9:25	1.00	5.000	0.20	51.02	50.00	0.627	0.812	1.02
46	9:42	1.00	5.000	0.41	54.84	50.00	0.348	0.317	1.10
47	9:43	1.00	5.000	0.21	50.38	50.00	0.591	0.388	1.01
48	9:59	1.00	5.000	0.21	54.54	50.00	0.556	0.510	1.09
49	10:41	1.00	5.000	0.23	54.10	50.00	0.521	0.481	1.08
50	10:45	1.00	5.000	0.23	53.46	50.00	0.961	0.899	1.07
51	11:01	1.00	5.000	0.47	54.42	50.00	0.618	0.567	1.09
52	11:47	1.00	15.000	0.17	55.38	50.00	0.109	0.098	1.11
53	12:11	1.00	15.000	0.09	51.48	50.00	0.195	0.190	1.03
54	12:18	1.00	5.000	0.26	52.44	50.00	0.334	0.366	1.03
55	12:22	1.00	15.000	0.09	53.16	50.00	0.095	0.089	1.06
56	16:12	1.00	10.000	0.17	104.93	100.00	0.245	0.234	1.05
57	3:55	1.01	5.000	0.25	43.18	50.00	1.317	1.525	0.86
58	11:40	1.00	5.000	0.25	50.27	50.00	0.596	0.593	1.01
59	6:55	1.00	5.000	0.15	50.08	50.00	1.532	1.530	1.00

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Instrument ID: 19 Calibration date: 05/15/90 Time: 0240
 Lab File ID: CS900515C19 Init. Calib. Date(s): 05/08/90 05/08/90
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF50 for SPCC(†) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

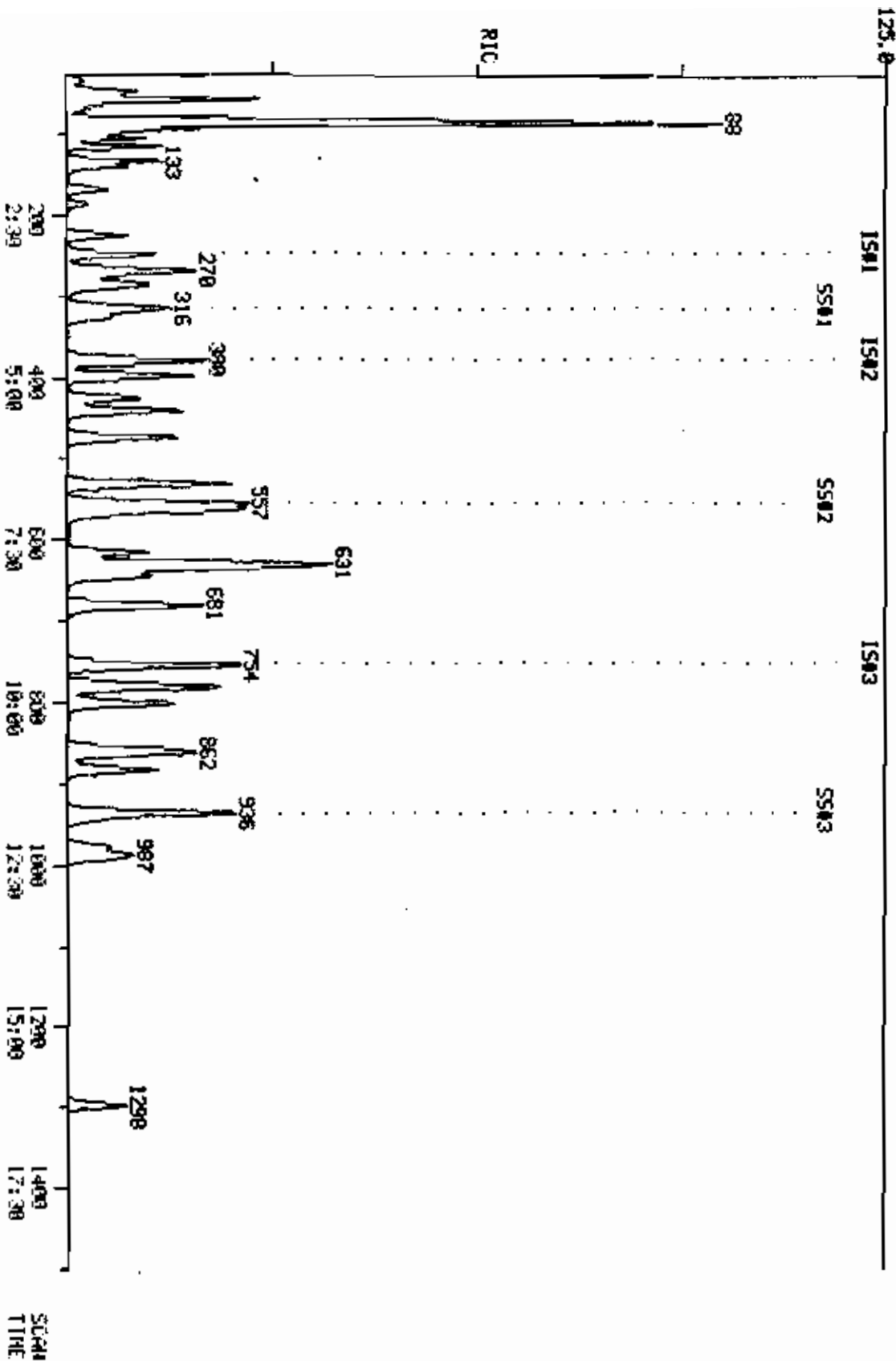
COMPOUND	RRF	RRF50	%D
Chloromethane	0.429	0.333	22.4
Bromomethane	1.395	1.152	17.4
Vinyl Chloride	0.535	0.469	12.3
Chloroethane	0.958	0.751	21.6
Methylene Chloride	1.333	0.876	34.3
Acetone	0.280	0.259	7.5
Carbon Disulfide	4.788	3.616	24.5
1,1-Dichloroethane	1.372	1.389	-1.2
1,1-Dichloroethane	1.524	1.103	27.6
1,2-Dichloroethane (total)	2.536	1.878	26.0
Chloroform	2.190	1.748	20.2
1,2-Dichloroethane	1.608	1.236	23.1
2-Butanone	0.047	0.039	17.0
1,1,1-Trichloroethane	0.632	0.472	25.3
Carbon Tetrachloride	0.673	0.560	16.8
Vinyl Acetate	0.275	0.255	7.3
Bromodichloromethane	0.664	0.602	9.3
1,2-Dichloropropane	0.253	0.207	18.2
cis-1,3-Dichloropropene	0.670	0.596	11.0
Trichloroethane	0.481	0.455	5.4
Dibromochloromethane	0.594	0.465	21.7
1,1,2-Trichloroethane	0.388	0.388	0.0
Benzene	0.692	0.495	28.5
Trans-1,3-Dichloropropene	0.380	0.389	-2.4
Bromoform	0.484	0.477	1.4
4-Methyl-2-Pentanone	0.343	0.362	-5.5
2-Hexanone	0.152	0.116	23.7
Tetrachloroethane	0.605	0.710	-17.4
1,1,2,2-Tetrachloroethane	0.378	0.321	15.1
Toluene	1.006	0.918	8.7
Chlorobenzene	0.835	0.746	10.7
Ethylbenzene	0.420	0.357	15.0
Styrene	0.942	0.826	12.3
Total Xylenes	1.096	0.976	11.0
Toluene-d8	1.525	1.488	2.4
BFB	0.615	0.588	7.4
1,2-Dichloroethane-d4	1.413	1.253	11.3

FORM VII VOA

1/87 Rev.

RIC
05/15/90 3:40:00
SAMPLE #AL V5170000 LOT #1382 ON DATE:15
COND: :

341120.



QUANTITATION REPORT FILE: CS900515C19
DATA: CS900515C19.TI
05/15/90 3:40:00
SAMPLE: 5ML VSTD050 LOT #1902 ON DWA#19 ✓
CONDS.:
SUBMITTED BY: 19 ANALYST: 1095

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	255 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
15	298 3-CHLOROPROFENE <107-03-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CRDTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-73-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO	NAME
47	219 ETHYLBENZENE <100-41-4> WE#47
48	330 M,P-XYLENE <133-02-7> WE#48
49	239 O-XYLENE <133-02-7> WE#49
50	251 STYRENE <100-42-5> WE#50
51	205 BROMOFORM <75-25-2> WE#51
52	274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
53	273 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
54	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
55	290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
56	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
57	#258 O4-1,2-DICHLOROETHANE WE#57 SS#1
58	#247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
59	#233 DB-TOLUENE WE#59 SS#2

Handwritten:
 5-16-90

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	249	3:07	1	1.000	A BB	49353.	50.000 UG/L	1.14
2	90	35	0:26	1	0.141	A BB	16423.	50.018 UG/L	1.14
3	62	40	0:30	1	0.161	A BB	23170.	53.711 UG/L	1.22
4	94	49	0:37	1	0.197	A BB	36851.	52.635 UG/L	1.20
5	64	52	0:39	1	0.209	A VB	37073.	55.180 UG/L	1.26
6	101	60	0:45	1	0.241	A BB	188483.	57.466 UG/L	1.31
7	56	84	1:03	1	0.337	A BB	33996.	186.974 UG/L	11.08
8	96	84	1:03	1	0.337	A BB	68546.	51.407 UG/L	1.17
9	76	89	1:07	1	0.357	A BV	178482.	50.818 UG/L	1.16
10	142	88	1:06	1	0.353	A BB	178433.	47.679 UG/L	1.08
11	117	87	1:05	1	0.349	A BB	66654.	52.876 UG/L	1.20
12	85	88	1:06	1	0.353	A BB	66067.	51.581 UG/L	1.17
13	43	95	1:11	1	0.382	A VB	12787.	14.490 UG/L	1.01
14	114	380	4:45	14	1.000	A BB	199174.	50.000 UG/L	1.14
15	76	106	1:19	1	0.426	A VB	18351.	49.587 UG/L	1.13
16	84	116	1:27	1	0.466	A BB	43239.	47.882 UG/L	1.09
17	96	133	1:40	1	0.534	A BB	46445.	52.692 UG/L	1.20
18	53	140	1:45	1	0.562	A BB	63605.	475.732 UG/L	10.82
19	63	167	2:05	1	0.671	A BB	54452.	54.810 UG/L	1.25
20	43	186	2:19	14	0.489	A BB	50885.	49.419 UG/L	1.12
21	96	226	2:49	1	0.908	A BB	46253.	50.697 UG/L	1.15
22	72	240	3:00	1	0.964	A BB	1935.	14.711 UG/L	1.02
23	83	268	3:21	1	1.076	A BV	86275.	52.858 UG/L	1.20
24	97	270	3:22	14	0.711	A BB	93992.	55.152 UG/L	1.25
25	117	288	3:36	14	0.758	A VB	111602.	53.496 UG/L	1.22
26	78	314	3:55	14	0.826	A BB	98537.	52.095 UG/L	1.18
27	62	326	4:04	1	1.309	A BB	60994.	54.460 UG/L	1.24
28	70	375	4:41	14	0.987	A BV	24314.	528.844 UG/L	12.03
29	117	752	9:24	29	1.000	A BB	134111.	50.000 UG/L	1.14
30	130	398	4:58	14	1.047	A BB	90584.	53.422 UG/L	1.22
31	63	426	5:19	14	1.121	A BB	41252.	53.202 UG/L	1.21
32	174	440	5:30	1	1.767	A BB	92029.	50.209 UG/L	1.14
33	83	474	5:55	14	1.247	A BB	119961.	55.587 UG/L	1.26
34	63	530	6:37	14	1.395	A BB	30837.	52.287 UG/L	1.19
35	75	532	6:39	14	1.400	A BB	118668.	83.598 UG/L	1.22
36	43	568	7:06	29	0.755	A BB	48611.	57.832 UG/L	1.32
37	92	564	7:03	29	0.750	A BB	123142.	55.055 UG/L	1.25
38	75	616	7:42	14	1.621	A BB	77443.	54.087 UG/L	1.23
39	97	636	7:57	14	1.674	A BB	77208.	51.837 UG/L	1.18
40	69	646	8:04	29	0.859	A BB	78243.	45.616 UG/L	1.04
41	164	630	7:52	29	0.838	A BB	95220.	51.431 UG/L	1.17

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	%TOT
42	43	688	8:36	29	0.915	A BB	19532.	43.848 UG/L	1.00
43	129	681	8:31	14	1.792	A BB	92684.	42.641 UG/L	0.97
44	107	682	8:31	14	1.795	A BB	62158.	39.244 UG/L	0.89
45	112	755	9:26	29	1.004	A BB	100087.	50.803 UG/L	1.16
46	131	779	9:44	14	2.050	A BB	59226.	45.266 UG/L	1.03
47	106	781	9:46	29	1.039	A BV	47850.	52.260 UG/L	1.19
48	106	802	10:01	29	1.066	A VB	64812.	52.158 UG/L	1.19
49	106	856	10:42	29	1.138	A BB	66122.	53.930 UG/L	1.23
50	104	863	10:47	29	1.148	A BB	110804.	50.822 UG/L	1.16
51	173	883	11:02	14	2.324	A BB	95056.	50.425 UG/L	1.15
52	88	945	11:49	14	2.487	A BB	16552.	54.711 UG/L	1.24
53	110	978	12:13	29	1.301	A BB	21168.	50.035 UG/L	1.14
54	83	987	12:20	29	1.312	A BB	43068.	50.191 UG/L	1.14
55	53	992	12:24	29	1.319	A BB	9246.	51.274 UG/L	1.17
56	157	1297	16:13	29	1.725	A BB	49075.	98.750 UG/L	2.25
57	65	318	3:58	1	1.277	A BB	61817.	50.494 UG/L	1.15
58	95	936	11:42	29	1.245	A BB	78918.	18.243 UG/L	1.10
59	98	556	6:57	29	0.739	A BB	199544.	50.248 UG/L	1.14

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:06	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:25	1.03	10.000	0.01	50.02	50.00	0.333	0.333	1.00
3	0:29	1.03	10.000	0.02	53.71	50.00	0.469	0.437	1.07
4	0:36	1.02	10.000	0.02	52.63	50.00	1.152	1.094	1.05
5	0:38	1.02	10.000	0.02	55.18	50.00	0.751	0.681	1.10
6	0:45	1.00	10.000	0.02	57.47	50.00	3.819	3.323	1.15
7	1:02	1.01	90.000	0.00	486.97	500.00	0.069	0.071	0.97
8	1:02	1.01	5.000	0.07	51.41	50.00	1.389	1.351	1.03
9	1:06	1.01	5.000	0.07	50.82	50.00	3.616	3.558	1.02
10	1:06	1.00	10.000	0.04	47.68	50.00	3.615	3.791	0.95
11	1:05	1.00	10.000	0.03	52.88	50.00	1.351	1.277	1.06
12	1:06	1.00	10.000	0.04	51.58	50.00	1.309	1.298	1.03
13	1:10	1.01	10.000	0.04	44.49	50.00	0.259	0.291	0.89
14	4:44	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:19	1.00	15.000	0.03	49.59	50.00	0.376	0.379	0.99
16	1:26	1.01	5.000	0.09	47.88	50.00	0.876	0.915	0.96
17	1:39	1.01	5.000	0.11	52.69	50.00	0.941	0.893	1.05
18	1:44	1.01	120.000	0.00	475.73	500.00	0.129	0.135	0.95
19	2:05	1.00	5.000	0.13	54.81	50.00	1.103	1.006	1.10
20	2:19	1.01	10.000	0.05	49.42	50.00	0.255	0.258	0.99
21	2:48	1.01	5.000	0.18	50.70	50.00	0.937	0.924	1.01
22	2:59	1.00	10.000	0.10	44.71	50.00	0.039	0.044	0.89
23	3:21	1.00	5.000	0.22	52.86	50.00	1.748	1.654	1.06
24	3:22	1.00	5.000	0.14	55.15	50.00	0.472	0.428	1.10
25	3:34	1.01	5.000	0.15	53.30	50.00	0.560	0.524	1.07
26	3:55	1.00	5.000	0.17	52.09	50.00	0.495	0.475	1.04
27	4:03	1.01	5.000	0.26	54.46	50.00	1.236	1.135	1.09
28	4:40	1.00	100.000	0.01	528.84	500.00	0.012	0.012	1.06
29	9:25	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:58	1.00	5.000	0.21	53.42	50.00	0.455	0.426	1.07
31	5:19	1.00	5.000	0.22	53.20	50.00	0.207	0.195	1.06
32	5:30	1.00	5.000	0.35	50.21	50.00	1.865	1.857	1.00
33	5:55	1.00	5.000	0.25	55.59	50.00	0.602	0.542	1.11
34	6:38	1.00	10.000	0.14	52.29	50.00	0.155	0.148	1.05
35	6:40	1.00	5.000	0.28	53.60	50.00	0.596	0.556	1.07
36	7:07	1.00	15.000	0.05	57.83	50.00	0.362	0.313	1.16

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:03	1.00	5.000	0.15	55.06	50.00	0.918	0.834	1.10
38	7:43	1.00	5.000	0.32	54.09	50.00	0.659	0.359	1.08
39	7:57	1.00	5.000	0.33	51.84	50.00	0.398	0.374	1.04
40	8:05	1.00	10.000	0.09	45.62	50.00	0.557	0.439	0.91
41	7:53	1.00	5.000	0.17	51.43	50.00	0.710	0.670	1.03
42	8:37	1.00	15.000	0.06	43.89	50.00	0.116	0.132	0.88
43	8:31	1.00	5.000	0.36	42.64	50.00	0.465	0.546	0.85
44	8:31	1.00	5.000	0.36	39.24	50.00	0.312	0.398	0.78
45	9:26	1.00	5.000	0.20	50.80	50.00	0.746	0.734	1.02
46	9:44	1.00	5.000	0.41	45.27	50.00	0.277	0.306	0.91
47	9:47	1.00	5.000	0.21	52.26	50.00	0.357	0.341	1.05
48	10:02	1.00	5.000	0.21	52.16	50.00	0.487	0.463	1.04
49	10:43	1.00	5.000	0.23	53.93	50.00	0.493	0.457	1.08
50	10:47	1.00	5.000	0.23	50.82	50.00	0.826	0.813	1.02
51	11:03	1.00	5.000	0.46	50.43	50.00	0.477	0.473	1.01
52	11:49	1.00	15.000	0.17	54.71	50.00	0.053	0.076	1.09
53	12:13	1.00	15.000	0.09	50.04	50.00	0.158	0.158	1.00
54	12:21	1.00	5.000	0.26	50.19	50.00	0.321	0.320	1.00
55	12:25	1.00	15.000	0.09	51.27	50.00	0.069	0.067	1.03
56	16:13	1.00	10.000	0.17	98.75	100.00	0.183	0.185	0.99
57	3:57	1.01	5.000	0.26	50.49	50.00	1.253	1.240	1.01
58	11:42	1.00	5.000	0.25	48.24	50.00	0.558	0.410	0.96
59	6:57	1.00	5.000	0.15	50.25	50.00	1.488	1.481	1.00

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Instrument ID: 19 Calibration date: 05/18/90 Time: 1810
 Lab File ID: CW900518A19 Init. Calib. Date(s): 05/08/90 05/08/90
 Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP
 Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	0.429	0.485	-13.1
Bromomethane	1.395	1.306	6.4
Vinyl Chloride	0.535	0.624	-16.6
Chloroethane	0.958	0.899	6.2
Methylene Chloride	1.333	1.154	13.4
Acetone	0.280	0.395	-41.1
Carbon Disulfide	4.788	3.508	26.7
1,1-Dichloroethene	1.372	1.407	-2.6
1,1-Dichloroethane	1.524	1.738	-14.0
1,2-Dichloroethene (total)	2.536	2.366	6.7
Chloroform	2.190	2.644	-20.7
1,2-Dichloroethane	1.608	1.875	-16.6
2-Butanone	0.047	0.061	-29.8
1,1,1-Trichloroethane	0.632	0.589	6.8
Carbon Tetrachloride	0.673	0.619	8.0
Vinyl Acetate	0.275	0.305	-10.9
Bromodichloromethane	0.664	0.701	-5.6
1,2-Dichloropropane	0.253	0.273	-7.9
cis-1,3-Dichloropropene	0.670	0.707	-5.5
Trichloroethene	0.481	0.461	4.2
Dibromochloromethane	0.594	0.422	29.0
1,1,2-Trichloroethane	0.388	0.218	43.8
Benzene	0.692	0.575	16.9
Trans-1,3-Dichloropropene	0.380	0.325	14.5
Bromoform	0.484	0.250	48.4
4-Methyl-2-Pentanone	0.343	0.533	-55.4
2-Hexanone	0.152	0.128	15.8
Tetrachloroethene	0.605	0.615	-1.7
1,1,2,2-Tetrachloroethane	0.378	0.347	8.2
Toluene	1.006	1.061	-5.5
Chlorobenzene	0.835	0.885	-6.0
Ethylbenzene	0.420	0.408	2.9
Styrene	0.942	1.005	-6.7
Total Xylenes	1.096	1.156	-5.5
Toluene-d8	1.525	1.735	-11.8
BFB	0.635	0.717	-12.9
1,2-Dichloroethane-d4	1.413	1.828	-29.4

FDRM VII VOA

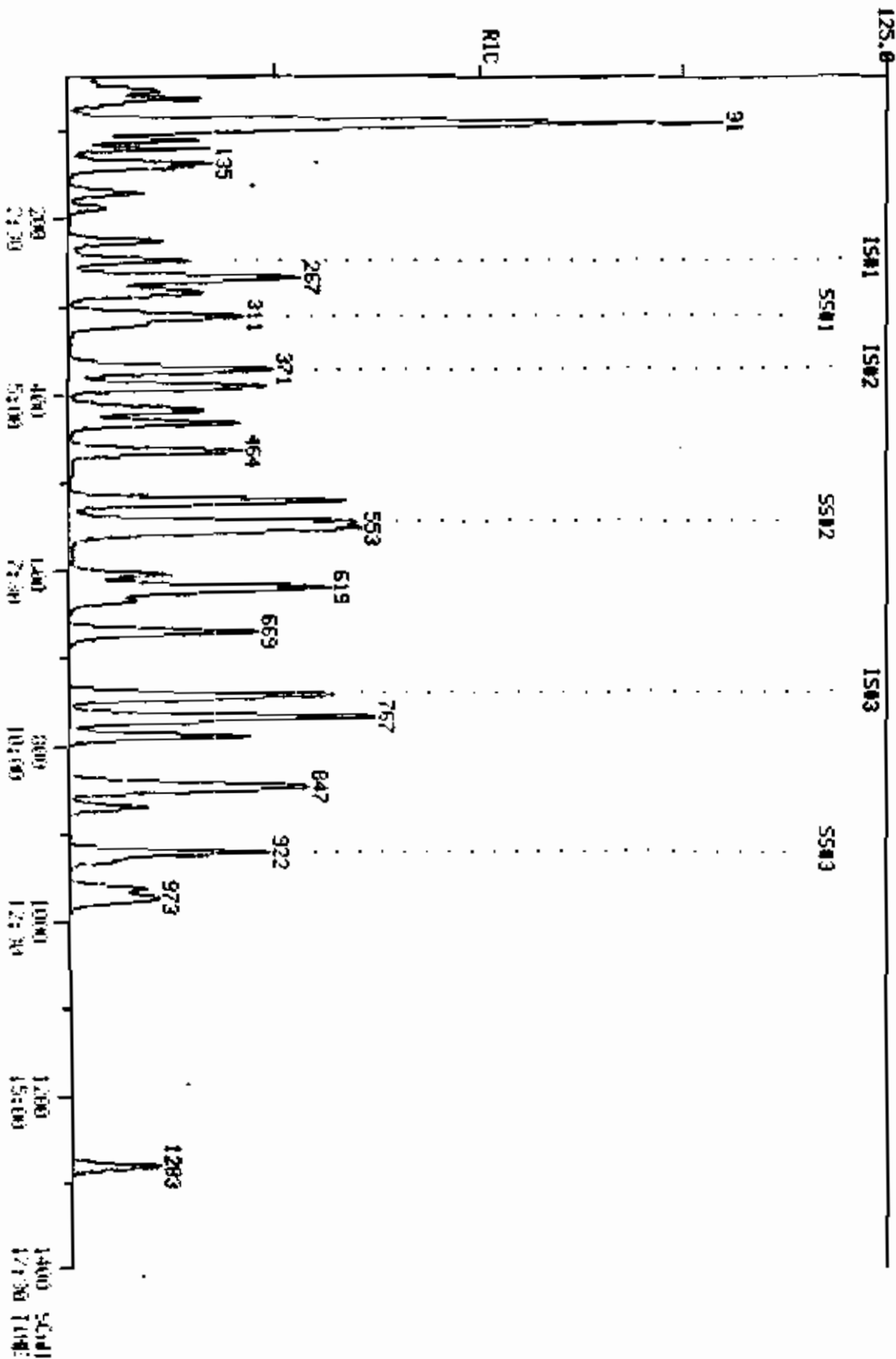
1/87 Rev.

COMPUCHEM LABS

COMPUCHEM DATA: CH06018419 SCANS 37 TO 1400

PIC
05/18/90 18:10:00
SAMPLE: SWL EPA 108 VST0259 (STD# 1992) CH #15
CONDOS.1

639360.



QUANTITATION REPORT FILE: CW90518A19
DATA: CW90518A19.TI
05/18/90 18:10:00
SAMPLE: 5HL EPA ID# V51D090 (STD# 1902) DN #19 ✓
CONDS. :
SUBMITTED BY: 19 ANALYST: 1009 ✓

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT
RESP. FAC. FROM LIBRARY ENTRY ✓

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLORoETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-89-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-9> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYL METHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DI-BROMOCHLOROMETHANE . 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M. P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
 59 #233 D6-TOLUENE WE#59 SS#2

ON FILE
 5-19-90

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	247	3:05	1	1.000	A BB	105953.	50.000 UG/L	1.09
2	50	42	0:31	1	0.170	A BV	51346.	46.979 UG/L	1.47
3	62	46	0:34	1	0.186	A BB	66158.	65.331 UG/L	1.43
4	94	51	0:38	1	0.206	A BB	138401.	58.994 UG/L	1.29
5	64	56	0:42	1	0.227	A VB	95304.	56.223 UG/L	1.23
6	101	63	0:47	1	0.255	A BB	291260.	52.921 UG/L	1.16
7	36	86	1:04	1	0.348	A BV	87849.	527.209 UG/L	11.53
8	96	86	1:04	1	0.348	A BB	149044.	53.237 UG/L	1.16
9	76	91	1:08	1	0.368	A BV	371656.	55.759 UG/L	1.22
10	142	91	1:08	1	0.368	A BB	481449.	61.413 UG/L	1.34
11	117	91	1:08	1	0.368	A BB	167729.	62.703 UG/L	1.37
12	85	91	1:08	1	0.368	A BB	160448.	60.692 UG/L	1.33
13	43	96	1:12	1	0.389	A BV	41827.	55.372 UG/L	1.21
14	114	371	4:38	14	1.000	A BB	513790.	50.000 UG/L	1.09
15	76	109	1:22	1	0.441	A VB	48990.	60.201 UG/L	1.32
16	84	118	1:28	1	0.478	A BB	122272.	54.496 UG/L	1.19
17	96	135	1:41	1	0.547	A BB	126620.	53.601 UG/L	1.17
18	53	141	1:46	1	0.571	A BV	165153.	547.038 UG/L	11.97
19	63	170	2:07	1	0.688	A BB	184130.	53.414 UG/L	1.17
20	43	186	2:19	14	0.501	A BV	156661.	53.460 UG/L	1.17
21	96	225	2:49	1	0.911	A BB	124051.	50.819 UG/L	1.11
22	72	237	2:58	1	0.960	A VB	6479.	46.051 UG/L	1.01
23	83	267	3:20	1	1.081	A BB	280173.	50.170 UG/L	1.10
24	97	268	3:21	14	0.722	A BB	302731.	50.017 UG/L	1.09
25	117	283	3:32	14	0.763	A VB	318064.	50.834 UG/L	1.11
26	78	309	3:52	14	0.833	A BB	295543.	47.865 UG/L	1.05
27	62	321	4:01	1	1.300	A BB	198713.	48.398 UG/L	1.06
28	70	365	4:34	14	0.984	A BB	76945.	509.678 UG/L	11.15
29	117	740	9:15	29	1.000	A BB	333350.	50.000 UG/L	1.09
30	130	390	4:52	14	1.051	A BB	236767.	52.225 UG/L	1.14
31	63	416	5:12	14	1.121	A BB	140512.	49.414 UG/L	1.08
32	174	431	5:23	1	1.745	A BB	214420.	60.541 UG/L	1.32
33	83	464	5:48	14	1.251	A BB	360166.	55.043 UG/L	1.20
34	63	519	6:29	14	1.399	A BB	104179.	52.743 UG/L	1.15
35	75	521	6:31	14	1.404	A BB	363116.	54.929 UG/L	1.20
36	43	557	6:58	29	0.753	A VB	177696.	49.682 UG/L	1.09
37	92	553	6:55	29	0.747	A BB	353530.	51.892 UG/L	1.14
38	75	605	7:34	14	1.631	A BB	167008.	42.490 UG/L	0.93
39	97	624	7:48	14	1.682	A BB	111761.	28.795 UG/L	0.63
40	69	634	7:55	29	0.857	A BB	104092.	21.038 UG/L	0.46
41	164	618	7:43	29	0.835	A BB	204964.	47.277 UG/L	1.03

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	ZTOT
42	43	676	8:27	29	0.914	A BB	42813.	48.043 UG/L	1.05
43	129	669	8:22	14	1.803	A BB	216860.	48.763 UG/L	1.07
44	107	670	8:22	14	1.806	A BB	183896.	52.695 UG/L	1.15
45	112	743	9:17	29	1.004	A BB	294999.	50.479 UG/L	1.10
46	131	766	9:34	14	2.065	A BB	220512.	61.651 UG/L	1.35
47	106	769	9:37	29	1.039	A BV	136018.	51.713 UG/L	1.13
48	106	789	9:52	29	1.066	A VB	192733.	55.164 UG/L	1.21
49	106	843	10:32	29	1.139	A BB	192583.	56.444 UG/L	1.23
50	104	849	10:37	29	1.147	A BB	335100.	56.469 UG/L	1.24
51	173	870	10:52	14	2.345	A BB	128247.	51.617 UG/L	1.13
52	88	931	11:38	14	2.509	A BB	47673.	54.297 UG/L	1.19
53	110	962	12:01	29	1.300	A BV	62249.	53.775 UG/L	1.18
54	83	973	12:10	29	1.315	A BB	115830.	48.153 UG/L	1.05
55	53	977	12:13	29	1.320	A BB	37380.	53.177 UG/L	1.16
56	157	1283	16:02	29	1.734	A BB	97893.	104.242 UG/L	2.28
57	65	312	3:54	1	1.263	A BB	193658.	50.247 UG/L	1.10
58	95	922	11:31	29	1.246	A BB	239086.	51.564 UG/L	1.13
59	98	545	6:49	29	0.736	A BB	578259.	53.327 UG/L	1.17

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT (L)	R. FAC	R. FAC (L)	RATIO
1	3:06	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:29	1.08	10.000	0.02	66.98	50.00	0.485	0.362	1.34
3	0:34	1.00	10.000	0.02	65.33	50.00	0.624	0.478	1.31
4	0:37	1.02	10.000	0.02	58.99	50.00	1.306	1.107	1.18
5	0:41	1.02	10.000	0.02	56.22	50.00	0.899	0.800	1.12
6	0:46	1.02	10.000	0.03	52.92	50.00	2.749	2.597	1.06
7	1:04	1.01	90.000	0.00	527.21	500.00	0.083	0.079	1.05
8	1:04	1.01	5.000	0.07	53.24	50.00	1.407	1.321	1.06
9	1:07	1.01	5.000	0.07	55.76	50.00	3.508	3.145	1.12
10	1:07	1.01	10.000	0.04	61.41	50.00	4.514	3.700	1.23
11	1:07	1.01	10.000	0.04	62.70	50.00	1.583	1.262	1.25
12	1:07	1.01	10.000	0.04	60.69	50.00	1.514	1.248	1.21
13	1:11	1.01	10.000	0.04	55.37	50.00	0.395	0.356	1.11
14	4:40	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:21	1.01	15.000	0.03	60.20	50.00	0.462	0.384	1.20
16	1:28	1.01	5.000	0.10	54.50	50.00	1.154	1.059	1.09
17	1:40	1.01	5.000	0.11	53.60	50.00	1.195	1.115	1.07
18	1:45	1.01	120.000	0.00	547.04	500.00	0.156	0.142	1.09
19	2:07	1.01	5.000	0.14	53.41	50.00	1.708	1.627	1.07
20	2:19	1.00	10.000	0.05	53.46	50.00	0.308	0.285	1.07
21	2:49	1.00	5.000	0.18	50.82	50.00	1.171	1.152	1.02
22	2:58	1.00	10.000	0.10	46.05	50.00	0.061	0.066	0.92
23	3:20	1.00	5.000	0.22	50.17	50.00	2.644	2.635	1.00
24	3:21	1.00	5.000	0.14	50.02	50.00	0.589	0.589	1.00
25	3:31	1.00	5.000	0.15	50.83	50.00	0.619	0.609	1.02
26	3:52	1.00	5.000	0.17	47.87	50.00	0.575	0.601	0.96
27	4:01	1.00	5.000	0.26	48.40	50.00	1.875	1.938	0.97
28	4:34	1.00	100.000	0.01	509.68	500.00	0.015	0.015	1.02
29	9:19	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:53	1.00	5.000	0.21	52.23	50.00	0.461	0.441	1.04
31	5:14	0.99	5.000	0.22	49.41	50.00	0.273	0.277	0.99
32	5:25	0.99	5.000	0.35	60.54	50.00	2.024	1.671	1.21
33	5:51	0.99	5.000	0.25	55.04	50.00	0.701	0.637	1.10
34	6:33	0.99	10.000	0.14	52.74	50.00	0.203	0.192	1.05
35	6:34	0.99	5.000	0.28	54.93	50.00	0.707	0.643	1.10
36	7:01	0.99	15.000	0.05	49.68	50.00	0.533	0.536	0.99

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	6:58	0.99	5.000	0.15	51.89	50.00	1.061	1.022	1.04
38	7:37	0.99	5.000	0.33	42.49	50.00	0.329	0.383	0.85
39	7:52	0.99	5.000	0.34	28.80	50.00	0.218	0.378	0.58
40	7:59	0.99	10.000	0.09	21.04	50.00	0.312	0.742	0.42
41	7:47	0.99	5.000	0.17	47.28	50.00	0.613	0.650	0.93
42	8:31	0.99	15.000	0.06	48.04	50.00	0.128	0.134	0.96
43	8:25	0.99	5.000	0.36	48.76	50.00	0.422	0.433	0.98
44	8:25	0.99	5.000	0.36	52.70	50.00	0.358	0.340	1.05
45	9:21	0.99	5.000	0.20	50.48	50.00	0.825	0.877	1.01
46	9:38	0.99	5.000	0.41	61.65	50.00	0.429	0.348	1.23
47	9:40	0.99	5.000	0.21	51.71	50.00	0.408	0.395	1.03
48	9:55	0.99	5.000	0.21	55.16	50.00	0.578	0.524	1.10
49	10:37	0.99	5.000	0.23	56.44	50.00	0.578	0.512	1.13
50	10:41	0.99	5.000	0.23	56.47	50.00	1.005	0.890	1.13
51	10:56	0.99	5.000	0.47	51.62	50.00	0.253	0.242	1.03
52	11:43	0.99	15.000	0.17	54.30	50.00	0.093	0.085	1.09
53	12:07	0.99	15.000	0.09	53.77	50.00	0.187	0.174	1.08
54	12:13	0.99	5.000	0.26	48.15	50.00	0.317	0.361	0.96
55	12:18	0.99	15.000	0.09	53.18	50.00	0.112	0.105	1.06
56	16:07	1.00	10.000	0.17	104.24	100.00	0.147	0.141	1.04
57	3:54	1.00	5.000	0.25	50.25	50.00	1.828	1.819	1.00
58	11:36	0.99	5.000	0.25	51.56	50.00	0.717	0.695	1.03
59	6:52	0.99	5.000	0.15	53.33	50.00	1.735	1.626	1.07

- (3) Internal Standard Area Summary (Form VIII VOA) - In order by instrument, if more than one instrument used.

When more than one continuing calibration is performed, forms must be in chronological order, by instrument.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID (Standard): CS900515C19 Date Analyzed: 05/15/90
 Instrument ID: 19 Time Analyzed: 0340
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	49400	3.10	199000	4.75	114000	9.40
UPPER LIMIT	98800		398000		268000	
LOWER LIMIT	24700		99500		67000	
EPA SAMPLE NO.						
01 73800102	46200	3.07	190000	4.72	121000	9.39
02 73800103	42500	3.08	170000	4.73	116000	9.40
03 73800104	42900	3.10	183000	4.73	121000	9.39
04 73800105	42900	3.07	189000	4.68	120000	9.34
05 73800106	46200	3.07	184000	4.68	124000	9.34
06 73800107	46700	3.07	190000	4.68	122000	9.35
07 73800108	43100	3.05	175000	4.65	122000	9.34
08 73800111	45000	3.07	185000	4.70	129000	9.35
09 738001TB1	44100	3.10	181000	4.73	126000	9.35
10 VBLKPQ	45600	3.10	180000	4.73	121000	9.39

IS1 (BCM) = Bromochloromethene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

Lab Name: COMFUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID (Standard): CW900518A19 Date Analyzed: 05/18/90
 Instrument ID: 19 Time Analyzed: 1810
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	106000	3.08	514000	4.63	333000	9.25
UPPER LIMIT	212000		1028000		666000	
LOWER LIMIT	53000		257000		166500	
EPA SAMPLE NO.						
01 73800101	83100	3.10	403000	4.65	263000	9.30
02 73800109	90400	3.10	463000	4.68	287000	9.32
03 73800110	101000	3.08	520000	4.65	319000	9.30
04 738001TB2	93100	3.10	509000	4.65	300000	9.32
05 VBLKOH	117000	3.10	540000	4.68	342000	9.30

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Lab File ID (Standard): CT900515B19 Date Analyzed: 05/15/90
 Instrument ID: i9 Time Analyzed: 1757
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	50600	3.10	198000	4.72	137000	9.37
UPPER LIMIT	101200		396000		274000	
LOWER LIMIT	25300		99000		68500	
EPA SAMPLE NO.						
01 73800112	47900	3.05	190000	4.70	136000	9.40
02 73800113	40600	12.55	157000	19.05	117000	37.82
03 73800112MS	47700	3.08	190000	4.73	140000	9.40
04 73800112MSD	51000	3.10	206000	4.75	146000	9.42
05 VBLXPU	53300	3.10	211000	4.70	141000	9.35

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

D. RAW GC DATA

- (1) BFB (for each 12-hour period, for each GC/MS system utilized)
 - (a) Bar graph spectrum
 - (B) Mass listing
- (2) Blank Data - in chronological order. NOTE: This order is different from that used for samples.
 - (a) Tabulated results (Form I VOA)
 - (b) Tentatively Identified Compounds (Form I VOA - TIC) - even if none found.
 - (c) Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)
 - (d) TCL spectra with lab generated standard. Data systems which are incapable of dual display shall provide spectra in order:
 - (a) GC/MS library search spectra for Tentatively Identified Compound(s) (TIC) concentrations
- (3) Matrix Spike Data
 - (a) Tabulated results (Form I VOA) of nonspiked TCL compounds. Form I VOA - TIC not required.
 - (b) Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS). Spectra not required.
- (4) Spike Duplicate Data
 - (a) Tabulated results (Form I VOA) of nonspiked TCL compounds. Form I VOA - TIC not required.
 - (b) Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS). Spectra not required.

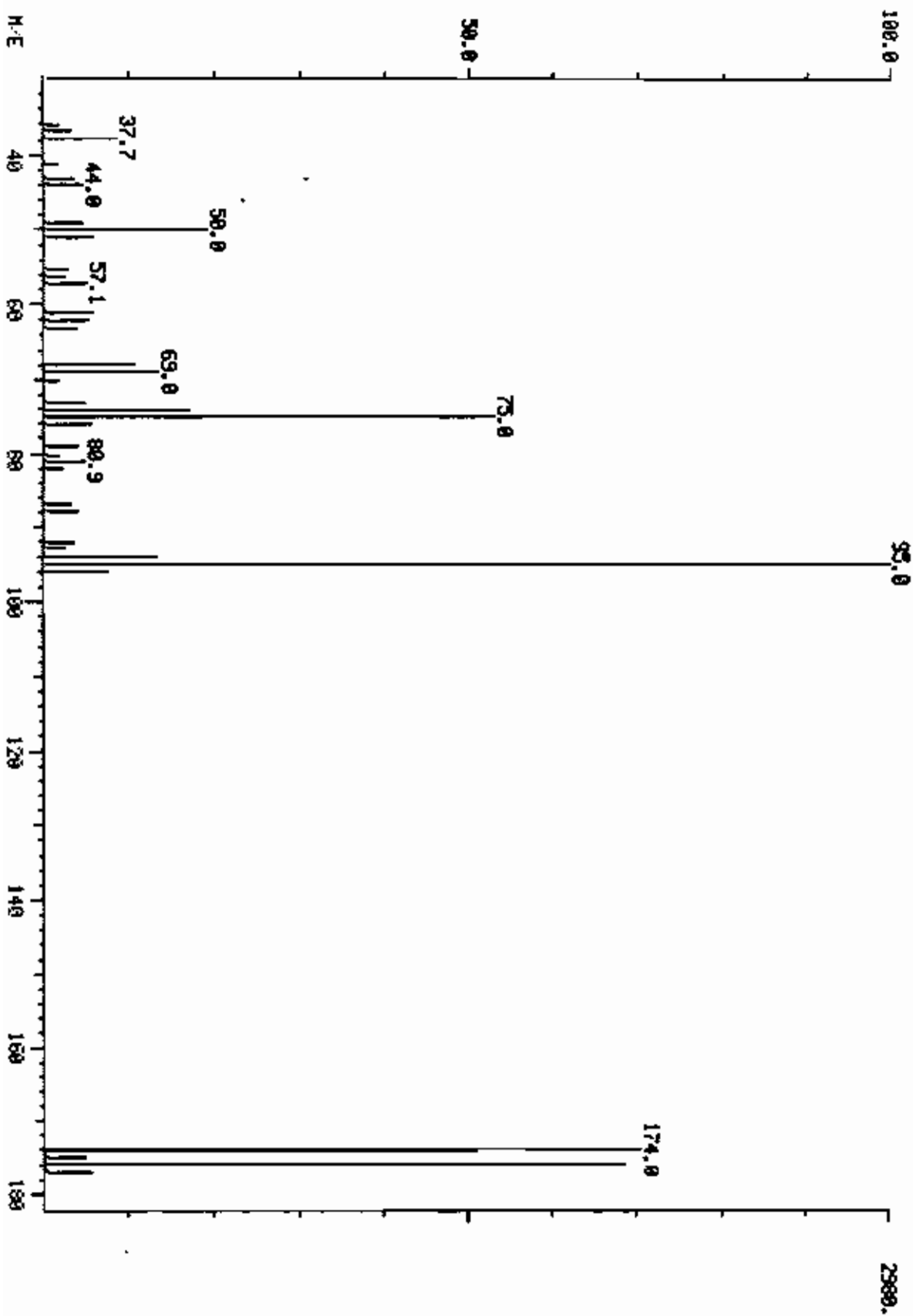
- (1) BFB (for each 12 - hour period, for each GC/MS system utilized)
 - (a) Bar graph spectrum
 - (b) Mass listing

MASS SPECTRUM
05/09/98 01:59:09 + 1449
SAMPLE 2UL BFB #01916 ON #19

COMPUCHEN LABS

DATA: BF900508C19 0145

BASE M/E: 95
RIC: 14452.

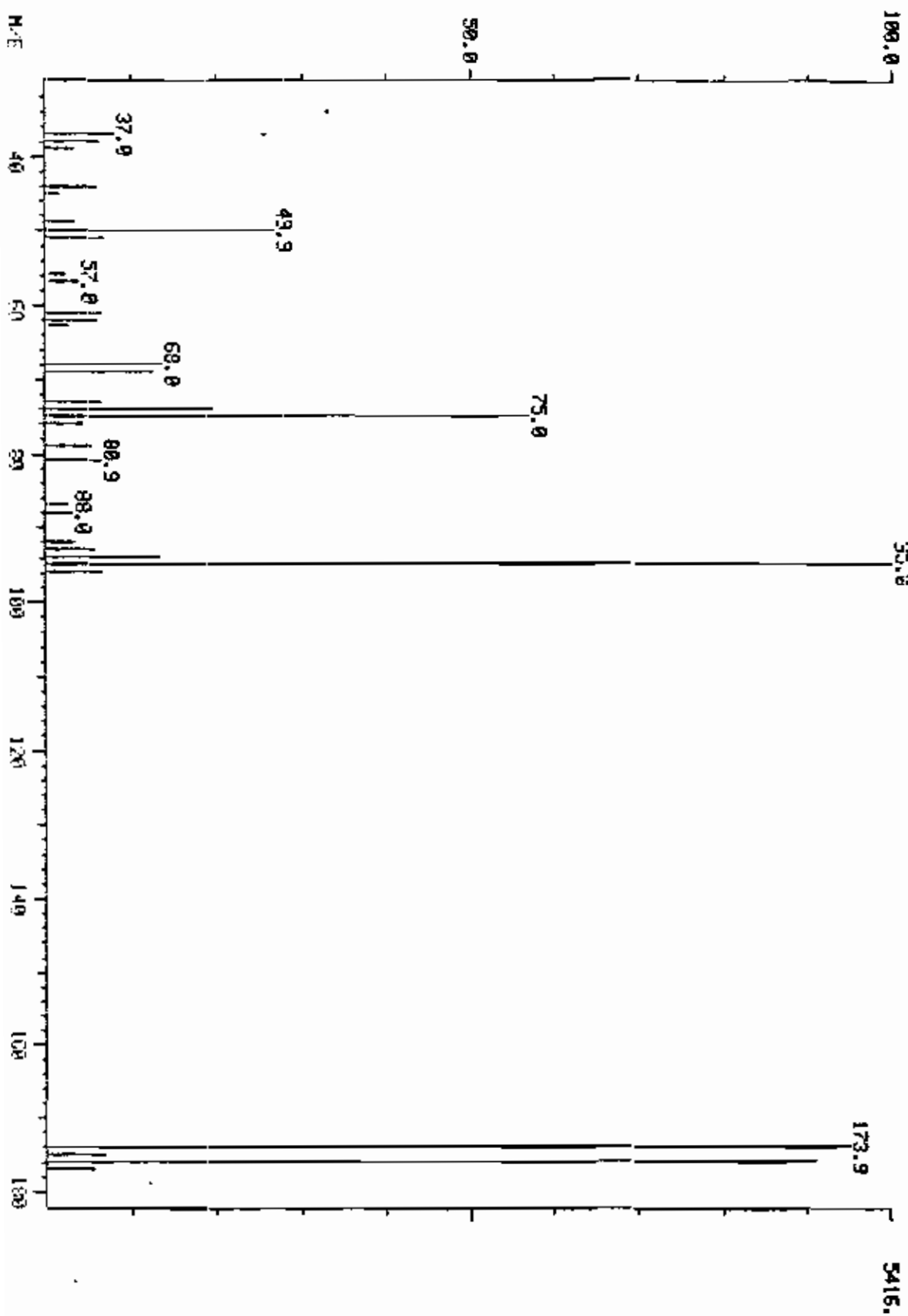


COMPUchem LABS

DATA: BF900515619 #143

BASE H/E: 95
R1C1: 29248.

MASS SPECTRUM
06/16/98 14:57:00 + 1447
SAMPLE: 2UL BFB #7009 DM#19



NYDEC RA090 0507 ORGANIC

1361

COMPUCHEM LABS

MASS LIST
 05/15/90 14:57:00 + 1:47
 SAMPLE: 2UL BFB #7008 CN#19

DATA: 8F900515A19 # 143 BASE M/E: 95
 RIC: 29248.

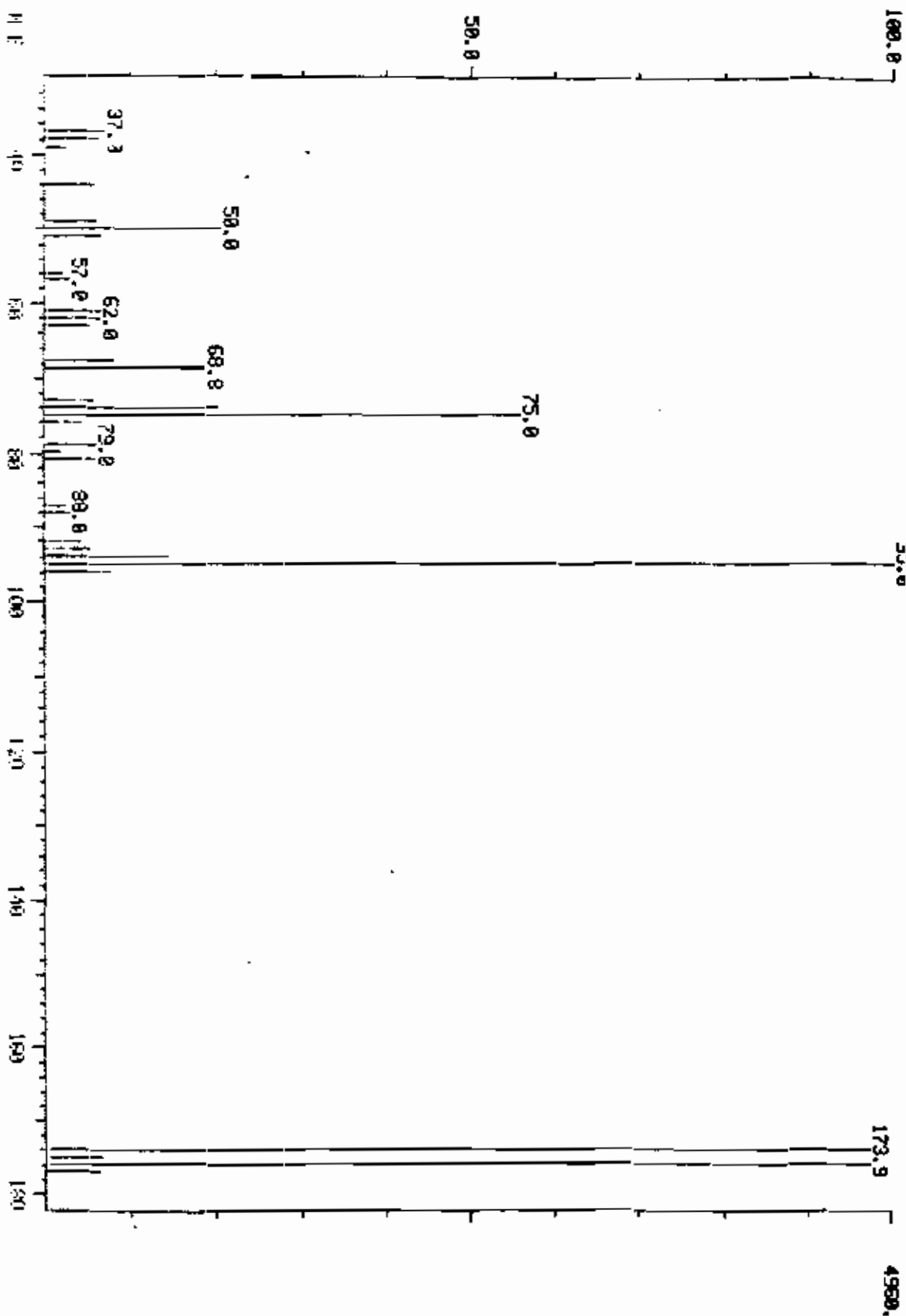
MASS	% RA	MINIMA	MIN INTEN:	MAX INTEN:
37	7.92	MINIMA	0.	3416.
177	0	MAXIMA		
38	6.07			
39	3.38			
44	5.76			
45	1.42			
49	3.23			
50	26.88			
51	6.74			
56	2.38			
57	3.95			
61	6.35			
62	5.83			
63	2.66			
68	13.40			
69	12.39			
73	6.31			
74	19.50			
75	36.87			
76	4.36			
79	5.21			
81	6.37			
87	2.53			
88	3.08			
92	3.31			
93	5.67			
94	13.33			
95	100.00			
96	6.30			
174	95.27			
175	6.63			
176	90.99			
177	5.24			

COMPUchem LABS

DATA: BF90051SC19 0145

BASE PE: 95
R1C1 27073.

MASS SPECTRUM
05/15/00 3:04:00 + 1.49
SAMPLE: 2UL BFB LOT N31978-7808 ON OMA#19



NYDEC RA090 0507 ORGANIC

1359

MASS LIST
 05/15/90 3:04:00 + 1:49
 SAMPLE: 2UL BFB LOT #3197B-7006 ON OWA#19

COMPUCHEM LABS

DATA: BF900515C19 # 146

DASE M/E: 95

RIC: 27072.

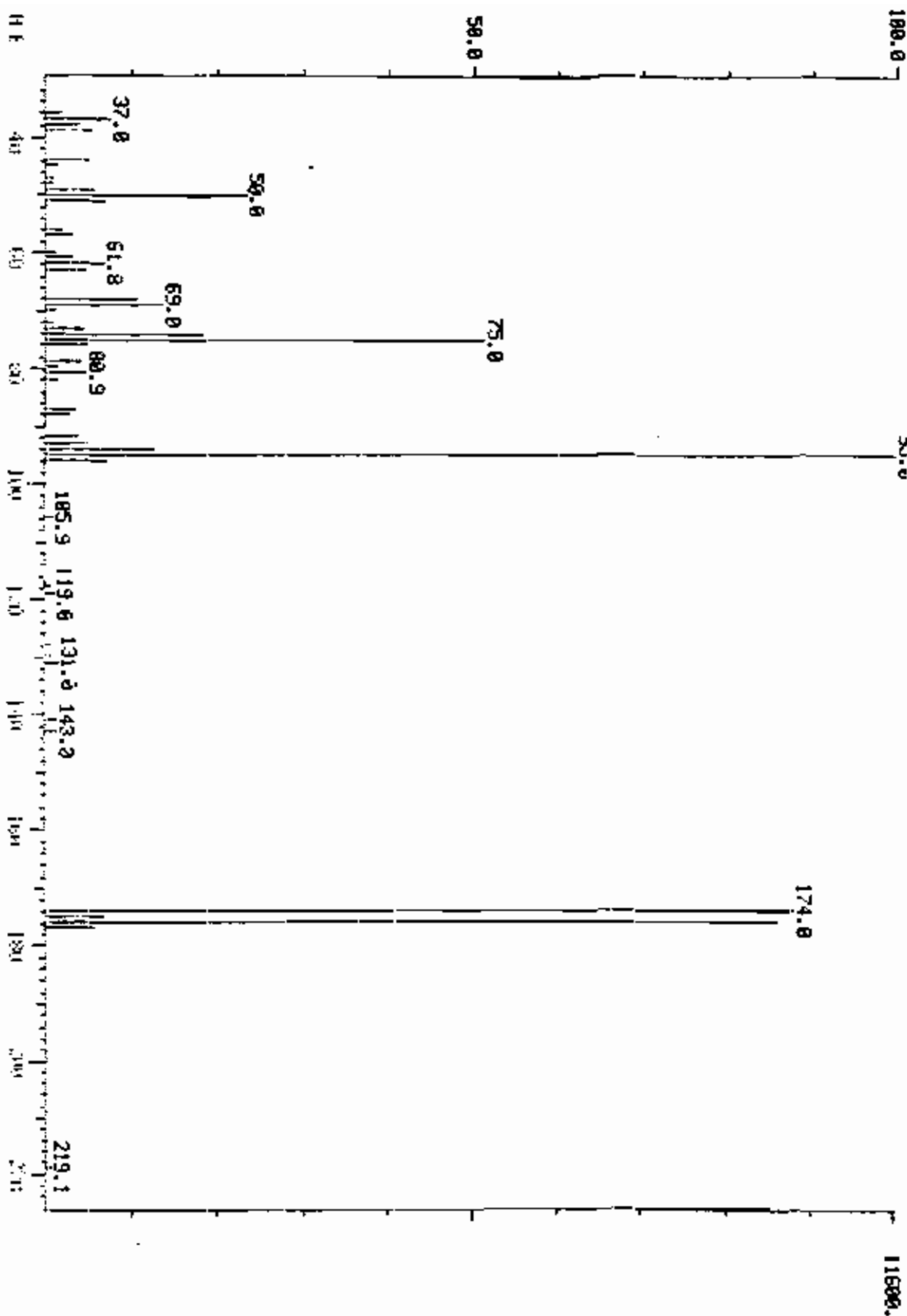
37	0.00	MINIMA	. MIN INTEN:	0.	MAX INTEN:	4960.
177 #	0	MAXIMA				
MASS	% RA					
37	6.81					
38	6.17					
39	2.42					
44	5.50					
49	5.87					
50	20.38					
51	6.43					
56	2.12					
57	2.88					
61	6.25					
62	6.39					
63	5.00					
68	7.84					
69	18.67					
73	5.52					
74	20.06					
75	53.81					
76	4.40					
79	5.99					
80	1.87					
81	5.97					
87	2.24					
88	2.70					
92	4.03					
93	5.08					
94	14.23					
95	100.00					
96	7.40					
174	97.42					
175	6.29					
176	97.42					
177	6.05					

COMPUCHEM L095

DATE: BH900518019 #141

BASE N/E: 95
R1C1 C1120.

MASS SPECTRUM
05/18/90 14:55:00 + 1.4C
SAMPLE: ZUL BFB (7888) ON #19



NYDEC RA090 0507 ORGANIC

1357

COMPUCHEN LABS

MASS LIST

DATA: BH900518A19 # 141

BASE M/E: 95

05/18/90 14:55:00 + 1:46

RIC: 61120.

SAMPLE: 2UL BFB (700B) QN #19

MASS	X RA	MINIMA	MAXIMA	MIN INTEN:	MAX INTEN:
36	2.16			0.	11600.
219	0				
36	2.16				
37	7.52				
38	4.05				
39	5.09				
44	4.78				
45	1.16				
47	0.74				
48	0.72				
49	5.47				
50	23.10				
51	6.62				
56	1.78				
57	3.18				
60	0.97				
61	3.07				
62	6.69				
63	4.70				
68	10.36				
69	13.53				
70	1.12				
72	0.66				
73	4.41				
74	18.14				
75	51.31				
76	4.93				
79	4.04				
80	1.25				
81	4.57				
82	1.37				
87	3.21				
88	2.77				
92	3.73				
93	4.83				
94	12.45				
95	100.00				
96	6.92				
106	0.66				
118	0.45				
119	1.03				
128	0.48				
130	0.44				
131	1.60				
141	1.16				
143	1.30				
174	88.00				
175	6.55				
176	85.93				
177	5.55				
219	0.48				

(2) Blank Data - in chronological order. NOTE: This order is different from that used for samples.

(a) Tabulated results (Form I VOA)

(b) Tentatively Identified Compounds (Form I VOA - TIC) - even if none found.

(c) Reconstructed ion chromatogram (e) and quantitation report (a) or legible facsimile (GC/MS)

(d) TCL spectra with lab generated standard. Data systems which are incapable of dual display shall provide spectra in order:

- Raw TCL compound spectra
- Enhanced or background subtracted spectra
- Laboratory generated TCL standard spectra

(e) GC/MS library search spectra for Tentatively Identified Compound (s) (TIC) concentrations

VBLKPU

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: VBLKPU

Sample wt/vol: _____ (g/mL) ML Lab File ID: CB900515B19

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) _____	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	3	J
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKPU

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: VBLKPU

Sample wt/vol: _____ (g/mL) ML Lab File ID: CB900515B19

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column (pack/cap) CAP Dilution Factor: 1

Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) _____

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

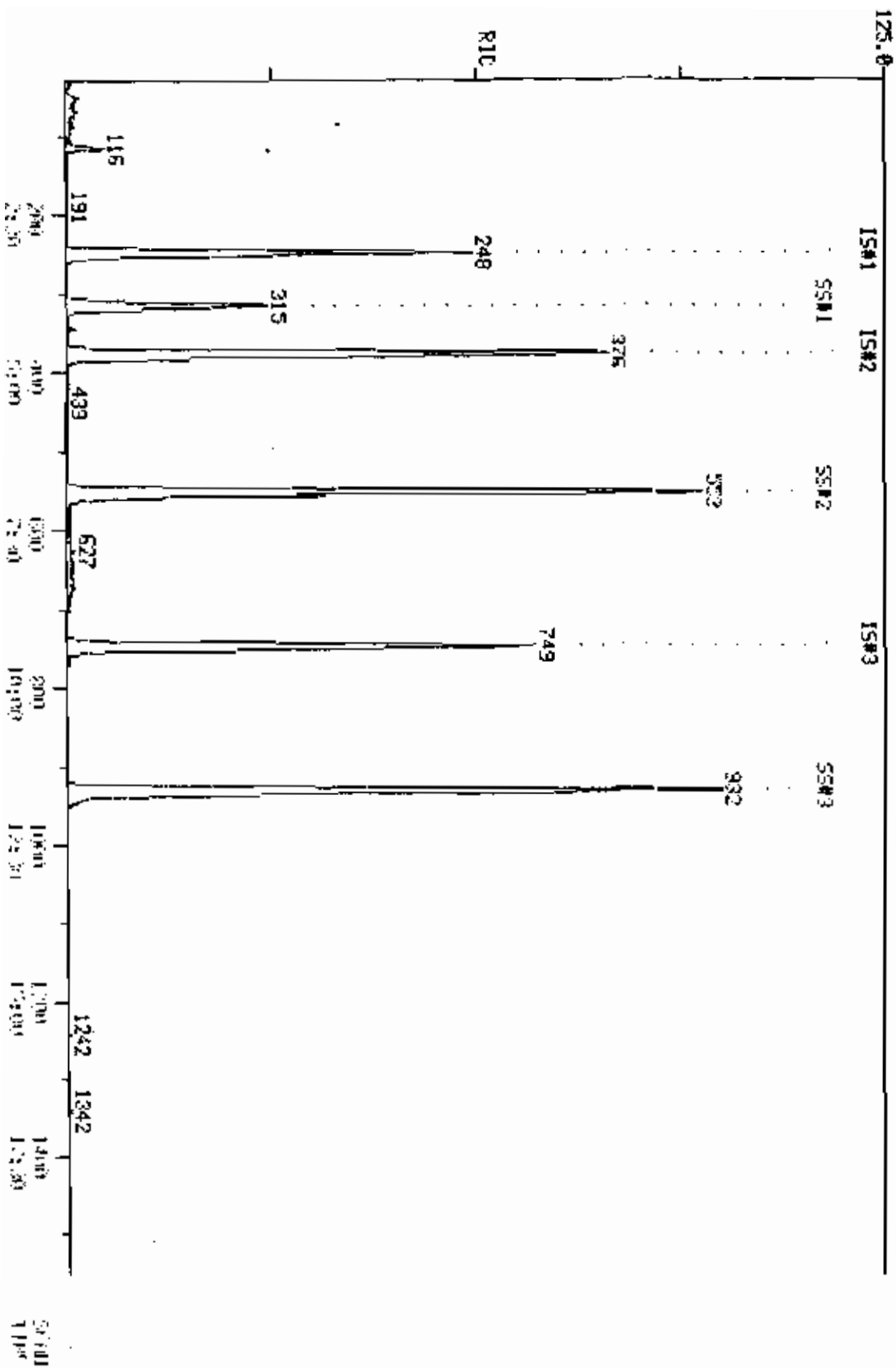
1/87 Rev.

RIC
05/15/99 18:59:00
SAMPLE: 3M1 UNLX PU ON CAN#19
COND5: :

COMPUCHER LABS

COMPUCHER DATA C0900515019 SCANS 30 TO 1550

01440.



QUANTITATION REPORT FILE: CB900515B17
DATA: CB900515B17.TI
05/15/90 18:53:00
SAMPLE: 5ML VBLK PU ON OWA#19
CONDB: .
SUBMITTED BY: 19 ANALYST: 1095

AMOUNT=AREA * REF. AMNT/(REF. AREA)* RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACRYLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
44	243 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M, P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1, 4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1, 2, 3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1, 1, 2, 2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1, 4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1, 2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #238 04-1, 2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
 59 #233 DB-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	XTOT
1	128	248	0:06	1	1.000	A BB	53250.	50.000 UG/L	17.48
2	50	NOT FOUND							
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	101	NOT FOUND							
7	56	NOT FOUND							
8	96	NOT FOUND							
9	76	NOT FOUND							
10	142	NOT FOUND							
11	117	NOT FOUND							
12	85	NOT FOUND							
13	43	96	1:12	1	0.387	A BB	999.	2.795 UG/L	0.98 NO
14	114	376	4:42	14	1.000	A BB	211232.	50.000 UG/L	17.48
15	76	NOT FOUND							
16	84	116	1:27	1	0.468	A BB	4313.	3.484 UG/L	1.22 <i>ug/L</i>
17	96	NOT FOUND							
18	53	NOT FOUND							
19	63	NOT FOUND							
20	43	NOT FOUND							
21	96	NOT FOUND							
22	72	NOT FOUND							
23	83	NOT FOUND							
24	97	NOT FOUND							
25	117	NOT FOUND							
26	78	NOT FOUND							
27	62	NOT FOUND							
28	70	NOT FOUND							
29	117	749	9:22	29	1.000	A BB	140578.	50.000 UG/L	17.48
30	130	NOT FOUND							
31	63	NOT FOUND							
32	174	NOT FOUND							
33	83	NOT FOUND							
34	63	NOT FOUND							
35	79	NOT FOUND							
36	43	NOT FOUND							
37	92	NOT FOUND							
38	75	NOT FOUND							
39	97	NOT FOUND							
40	69	NOT FOUND							
41	164	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HEIGHT)	AMOUNT	XTOT
42	43	NOT FOUND							
43	129	NOT FOUND							
44	107	NOT FOUND							
45	112	NOT FOUND							
46	131	NOT FOUND							
47	106	NOT FOUND							
48	106	NOT FOUND							
49	106	NOT FOUND							
50	104	NOT FOUND							
51	173	NOT FOUND							
52	88	NOT FOUND							
53	110	NOT FOUND							
54	83	NOT FOUND							
55	53	NOT FOUND							
56	157	NOT FOUND							
57	65	315	3:56	1	1.270	A BB	59976.	42.754 UG/L	14.95
58	93	933	11:40	29	1.246	A BB	72361.	43.171 UG/L	15.10
59	98	553	6:55	29	0.738	A BB	188924.	43.859 UG/L	15.34

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27		10.000			50.00		0.400	
3	0:33		10.000			50.00		0.503	
4	0:37		10.000			50.00		0.813	
5	0:40		10.000			50.00		0.918	
6	0:46		10.000			50.00		3.951	
7	1:04		90.000			500.00		0.095	
8	1:03		5.000			50.00		1.664	
9	1:07		5.000			50.00		4.561	
10	1:07		10.000			50.00		4.572	
11	1:06		10.000			50.00		1.658	
12	1:07		10.000			50.00		1.641	
13	1:12	1.00	10.000	0.04	2.79	50.00	0.019	0.336	0.06
14	4:43	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:21		15.000			50.00		0.491	
16	1:28	0.99	5.000	0.09	3.48	50.00	0.031	1.162	0.07
17	1:40		5.000			50.00		1.149	
18	1:45		120.000			500.00		0.154	
19	2:07		5.000			50.00		1.329	
20	2:20		10.000			50.00		0.332	
21	2:49		5.000			50.00		1.128	
22	3:01		10.000			50.00		0.067	
23	3:21		5.000			50.00		2.050	
24	3:22		5.000			50.00		0.546	
25	3:34		5.000			50.00		0.634	
26	3:55		5.000			50.00		0.592	
27	4:04		5.000			50.00		1.415	
28	4:38		100.000			500.00		0.016	
29	9:22	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:56		5.000			50.00		0.515	
31	5:18		5.000			50.00		0.228	
32	5:29		5.000			50.00		2.312	
33	5:55		5.000			50.00		0.767	
34	6:37		10.000			50.00		0.198	
35	6:38		5.000			50.00		0.698	
36	7:04		15.000			50.00		0.414	

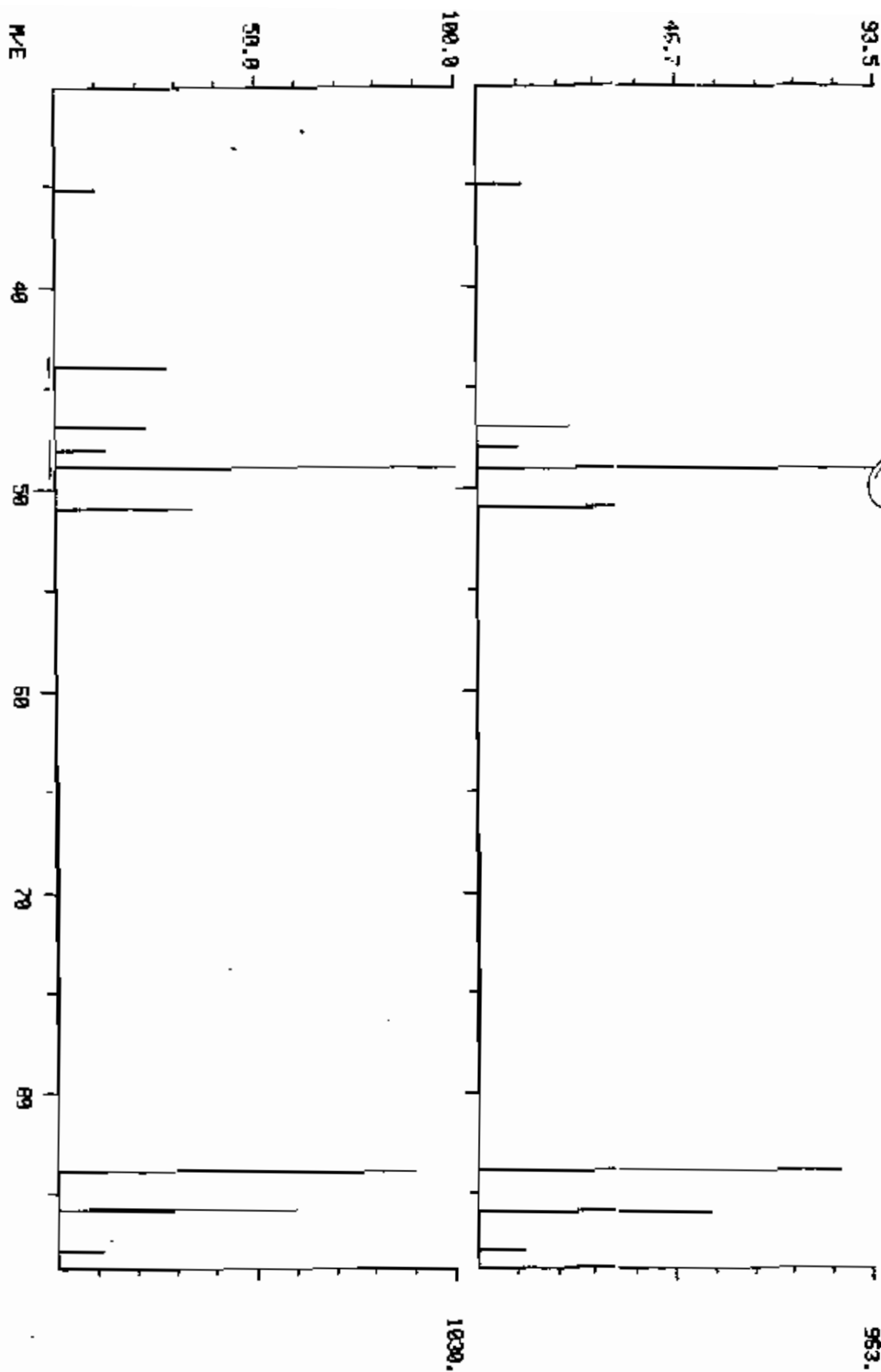
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:01		5.000			50.00		0.986	
38	7:41		5.000			50.00		0.427	
39	7:55		5.000			50.00		0.450	
40	8:04		10.000			50.00		0.821	
41	7:51		5.000			50.00		0.814	
42	8:34		15.000			50.00		0.200	
43	8:29		5.000			50.00		0.749	
44	8:29		5.000			50.00		0.560	
45	9:25		5.000			50.00		0.829	
46	9:43		5.000			50.00		0.348	
47	9:45		5.000			50.00		0.391	
48	10:00		5.000			50.00		0.556	
49	10:41		5.000			50.00		0.521	
50	10:46		5.000			50.00		0.961	
51	11:01		5.000			50.00		0.618	
52	11:48		15.000			50.00		0.108	
53	12:12		15.000			50.00		0.195	
54	12:18		5.000			50.00		0.384	
55	12:23		15.000			50.00		0.095	
56	16:12		10.000			100.00		0.245	
57	3:57	1.00	5.000	0.25	42.75	50.00	1.126	1.317	0.86
58	11:40	1.00	5.000	0.25	43.17	50.00	0.515	0.596	0.86
59	6:55	1.00	5.000	0.15	43.86	50.00	1.314	1.532	0.88

COMPUCHEM LABS

DATA: C8980515B19 #116

BASE M/E: 49/ 49
R/C: 2279. / 3771.

DUAL MASS SPECTRUM
06/15/98 10:59:00 + 1.227
SAMPLE: 5% UBLX PU ON DATA19
ENHANCED (S 15B 2M) 222 PETROLENE CALORITE (75-69-2) HE#16



VOLATILE - MEDIUM OR LOW LEVEL LIQUID

COMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	248	53200	50.0		
221	30	CHLOROMETHANE				BDL	10
221	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
220	101	TRICHLOROFLUOROMETHANE				BDL	10
201	56	ACROLEIN				BDL	90
216	96	1,1-DICHLOROETHENE				BDL	5
224	74	CARBON DISULFIDE				BDL	5
225	142	IODOMETHANE				BDL	10
227	117	1,1,1-TRICHLORO-2,2,2-TRIFL				BDL	10
226	85	1,1,2-TRICHLORO-1,2,2-TRIFL				BDL	10
252	43	ACETONE (2-PROPANONE)			2-8	BDL 3J	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	376	211000	50.0		
229	76	3-CHLOROPROPENE				BDL	15
222	94	METHYLENE CHLORIDE			3.5	4J	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
202	53	ACRYLONITRILE				BDL	120
214	63	1,1-DICHLOROETHANE				BDL	5
237	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	63	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	79	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
272	70	CROTONALDEHYDE				BDL	100
270	117 I	DS-CHLOROBENZENE (IS)	749	141000	50.0		
229	100	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
226	174	DIBROMOMETHANE				BDL	5
212	53	BROMODICHLOROMETHANE				BDL	5
210	63	2-CHLOROETHYL VINYL ETHER				BDL	10
219	73	CIS-1,3-DICHLOROPROPENE				BDL	5
256	40	4-METHYL-2-PENTANONE				BDL	15
225	92	TOLUENE				BDL	5
250	73	TRANS-1,3-DICHLOROPROPENE				BDL	5
229	97	1,1,2-TRICHLOROETHANE				BDL	5
227	69	ETHYLMETHACRYLATE				BDL	10
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	15
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5

CORRECTED/REVIEWED BY SDW/ones
(CC/MS DATA REVIEWER)DATE 5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

IMP * M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
245 107	1,2-DIBROMOETHANE				BDL	5
207 112	CHLOROBENZENE				BDL	5
273 131	1,1,1,2-TETRACHLOROETHANE				BDL	5
219 106	ETHYLBENZENE				BDL	5
330 106	M,P-XYLENE				BDL	5
239 106	O-XYLENE				BDL	5
251 104	STYRENE				BDL	5
205 173	BROMOFORM				BDL	5
274 98	CIS-1,4-DICHLORO-2-BUTENE				BDL	15
275 110	1,2,3-TRICHLOROPROPANE				BDL	15
223 83	1,1,2,2-TETRACHLOROETHANE				BDL	5
290 53	TRANS-1,4-DICHLORO-2-BUTENE				BDL	15
262 157	1,2-DIBROMO-3-CHLOROPROPANE				BDL	10
258 65 S	D4-1,2-DICHLOROETHANE WE#57			42.8	86. %	
247 95 S	BROMOFLUOROBENZENE			43.2	86. %	
233 98 S	D8-TOLUENE WE#59 S#2			43.9	88. %	
289 106	XYLENES (TOTAL)				BDL	5
299 96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:						
	3631.	1370	405200.	286.2		7.

CORRECTED/REVIEWED BY SDWagner
(GC/MS DATA REVIEWER)DATE 5-17-90

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
57	258	D4-1,2-DICHLOROETHANE WE#57	42.8	50.0	86.	76-114	X	
58	247	BROMOFLUOROBENZENE	43.2	50.0	86.	86-115	X	
59	233	D8-TOLUENE WE#59 SS#2	43.9	50.0	88.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY SDW/dgn
(GC/MS DATA) REVIEWER

DATE 5-17-90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKPG

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: VBLKPG

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB900515C19

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/15/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKPO

Lab Name: COMPUCHEM LABS Contract: 255501
Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
Matrix: (soil/water) WATER Lab Sample ID: VBLKPO
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB900515C19
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 05/15/90
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

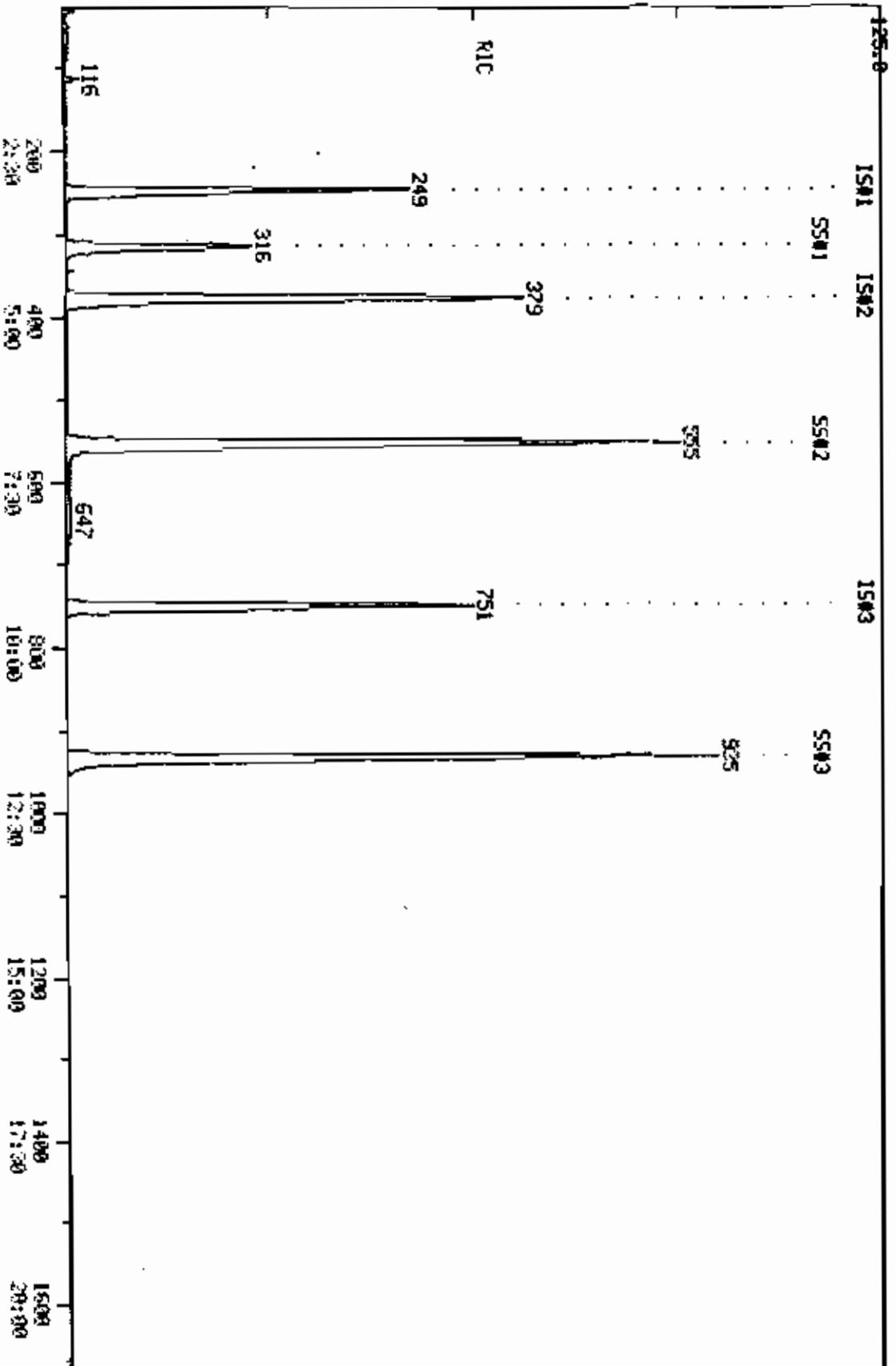
FORM I VOA-TIC

1/87 Rev.

RIC
08/15/98 4:15:00
SAMPLE1 SWL USLK PQ CH C000119
COND05.1

COMPUCHEN LABS

COMPUCHEN DATA C0800051SC19 E0005
OUT OF 30 TO 1700



NYDEC RA090 0507 ORGANIC

1340

QUANTITATION REPORT FILE: CB900915C19
DATA: CB900515C19.TI
05/15/90 4:15:00
SAMPLE: 5ML VBLK PG ON DMA#19
CONDS :
SUBMITTED BY: 19 ANALYST: 1095

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMODICHLOROMETHANE (IS) <79-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
 59 #233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	128	248	3:06	1	1.000	A BB	45613.	50.000 UG/L	16.47
2	50	NOT FOUND							
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	101	NOT FOUND							
7	56	NOT FOUND							
8	96	NOT FOUND							
9	76	NOT FOUND							
10	142	NOT FOUND							
11	117	NOT FOUND							
12	85	NOT FOUND							
13	43	NOT FOUND							
14	114	379	4:44	14	1.000	A BB	179630.	50.000 UG/L	16.47
15	76	NOT FOUND							
16	84	115	1:26	1	0.464	A BB	1663.	2.081 UG/L	D. 69%
17	96	NOT FOUND							
18	53	NOT FOUND							
19	63	NOT FOUND							
20	43	NOT FOUND							
21	96	NOT FOUND							
22	72	NOT FOUND							
23	83	NOT FOUND							
24	97	NOT FOUND							
25	117	NOT FOUND							
26	78	NOT FOUND							
27	62	NOT FOUND							
28	70	NOT FOUND							
29	117	751	9:23	29	1.000	A BB	120564.	50.000 UG/L	16.47
30	130	NOT FOUND							
31	63	NOT FOUND							
32	174	NOT FOUND							
33	83	NOT FOUND							
34	63	NOT FOUND							
35	78	NOT FOUND							
36	43	NOT FOUND							
37	92	NOT FOUND							
38	75	NOT FOUND							
39	97	NOT FOUND							
40	69	NOT FOUND							
41	164	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HCHT)	AMOUNT	XTOT
42	43	NOT FOUND							
43	129	NOT FOUND							
44	107	NOT FOUND							
45	112	NOT FOUND							
46	131	NOT FOUND							
47	106	NOT FOUND							
48	104	NOT FOUND							
49	104	NOT FOUND							
50	104	NOT FOUND							
51	173	NOT FOUND							
52	88	NOT FOUND							
53	110	NOT FOUND							
54	83	NOT FOUND							
55	53	NOT FOUND							
56	157	NOT FOUND							
57	65	316	3:57	1	1.274	A BB	55333.	48.425 UG/L	15.95
58	95	935	11:41	29	1.245	A BB	73199.	51.588 UG/L	16.99
59	98	555	6:56	29	0.739	A BB	185494.	51.702 UG/L	17.03

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:26		10.000			50.00		0.333	
3	0:30		10.000			50.00		0.469	
4	0:37		10.000			50.00		1.152	
5	0:39		10.000			50.00		0.751	
6	0:45		10.000			50.00		3.819	
7	1:03		90.000			500.00		0.069	
8	1:03		5.000			50.00		1.389	
9	1:07		5.000			50.00		3.616	
10	1:06		10.000			50.00		3.615	
11	1:05		10.000			50.00		1.351	
12	1:06		10.000			50.00		1.339	
13	1:11		10.000			50.00		0.259	
14	4:45	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:19		15.000			50.00		0.376	
16	1:27	0.99	5.000	0.09	2.08	50.00	0.034	0.876	0.04
17	1:40		5.000			50.00		0.941	
18	1:45		120.000			500.00		0.129	
19	2:05		5.000			50.00		1.103	
20	2:19		10.000			50.00		0.255	
21	2:49		5.000			50.00		0.937	
22	3:00		10.000			50.00		0.039	
23	3:21		5.000			50.00		1.748	
24	3:22		5.000			50.00		0.472	
25	3:36		5.000			50.00		0.560	
26	3:55		5.000			50.00		0.499	
27	4:04		5.000			50.00		1.236	
28	4:41		100.000			500.00		0.012	
29	9:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:58		5.000			50.00		0.455	
31	5:19		5.000			50.00		0.207	
32	5:30		5.000			50.00		1.865	
33	5:55		5.000			50.00		0.602	
34	6:37		10.000			50.00		0.155	
35	6:39		5.000			50.00		0.596	
36	7:06		15.000			50.00		0.362	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:03		5.000			50.00		0.918	
38	7:42		5.000			50.00		0.389	
39	7:57		5.000			50.00		0.388	
40	8:04		10.000			50.00		0.583	
41	7:52		5.000			50.00		0.710	
42	8:36		15.000			50.00		0.116	
43	8:31		5.000			50.00		0.465	
44	8:31		5.000			50.00		0.312	
45	9:26		5.000			50.00		0.746	
46	9:44		5.000			50.00		0.277	
47	9:46		5.000			50.00		0.357	
48	10:01		5.000			50.00		0.483	
49	10:42		5.000			50.00		0.493	
50	10:47		5.000			50.00		0.826	
51	11:02		5.000			50.00		0.477	
52	11:49		15.000			50.00		0.083	
53	12:13		15.000			50.00		0.158	
54	12:20		5.000			50.00		0.321	
55	12:24		15.000			50.00		0.069	
56	16:13		10.000			100.00		0.183	
57	3:58	0.99	5.000	0.25	48.43	50.00	1.213	1.253	0.97
58	11:42	1.00	5.000	0.25	51.59	50.00	0.607	0.588	1.03
59	6:57	1.00	5.000	0.15	51.70	50.00	1.939	1.488	1.03

INTERNAL STANDARD MONITOR

METHOD: WELL
SHIFT STD: CS900515C19

FILENAME: CS900515C19

DATE: 08/15/90
TIME: 4:15

COMPOUND	PEAK AREA		%DIFF	P/F
	SAMPLE	SHIFT STD		
*234 BROMOCHLOROMETHANE (IS)	45613.	49353.	-8.	PASS
*248 1,4-DIFLUOROBENZENE (IS)	179630.	199174.	-10.	PASS
*270 D5-CHLOROBENZENE (IS)	120564.	134111.	-10.	PASS

etc

COMPOUND	RET. TIME		DIFF	P/F
	SAMPLE	SHIFT STD		
*234 BROMOCHLOROMETHANE (IS)	3:06	3:07	- 0:01	PASS
*248 1,4-DIFLUOROBENZENE (IS)	4:44	4:45	- 0:01	PASS
*270 D5-CHLOROBENZENE (IS)	9:23	9:24	- 0:01	PASS

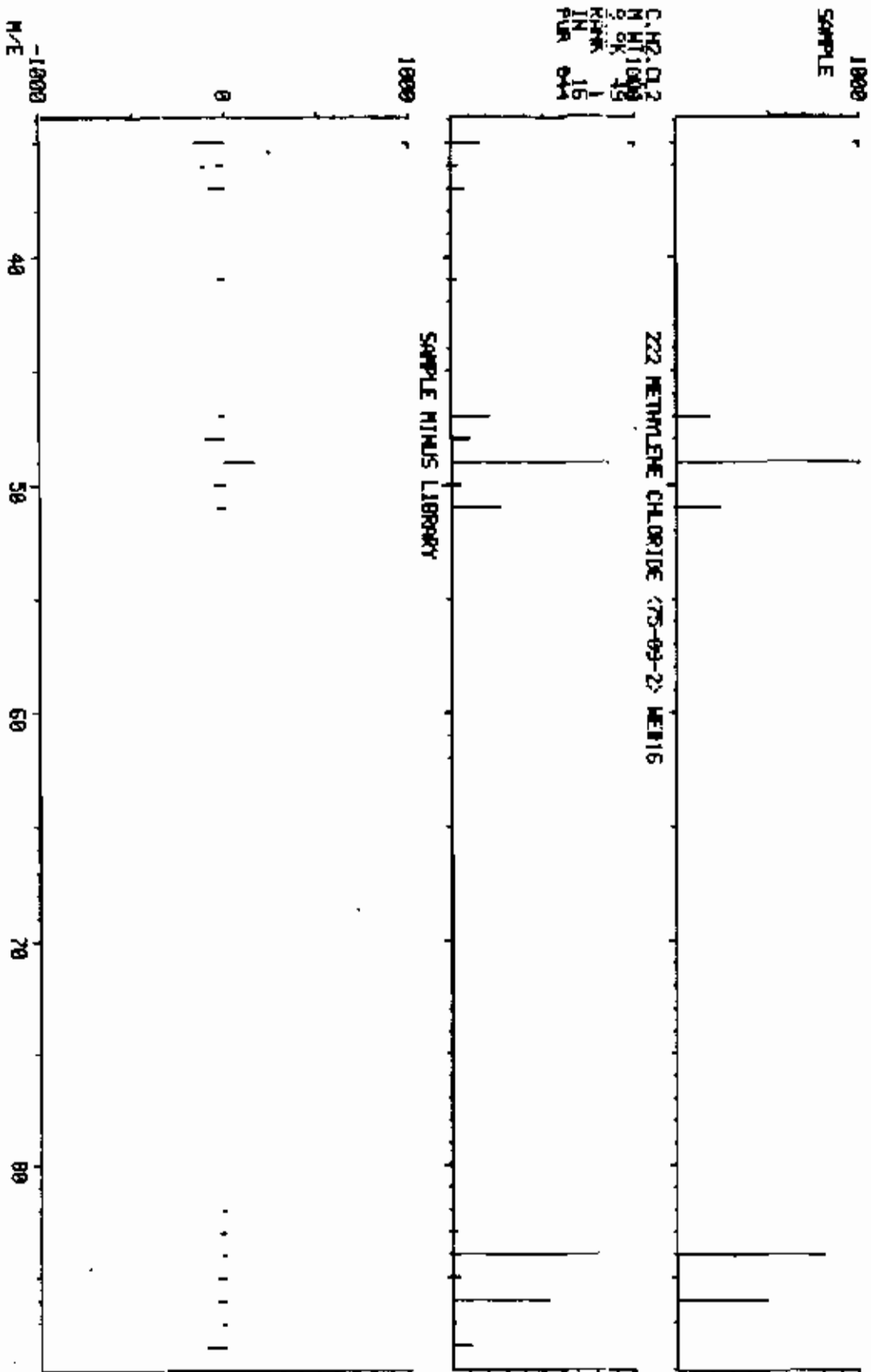
etc

COMPUCHEN LABS

DATA: 08908519C19 # 115

BASE M/E: 49
R/C: 1141.

LIBRARY SEARCH
08/15/90 4:15:00 + 1:26
SAMPLE: SML VBLK PQ ON Q40419
EMANATED (5 158 24 07)

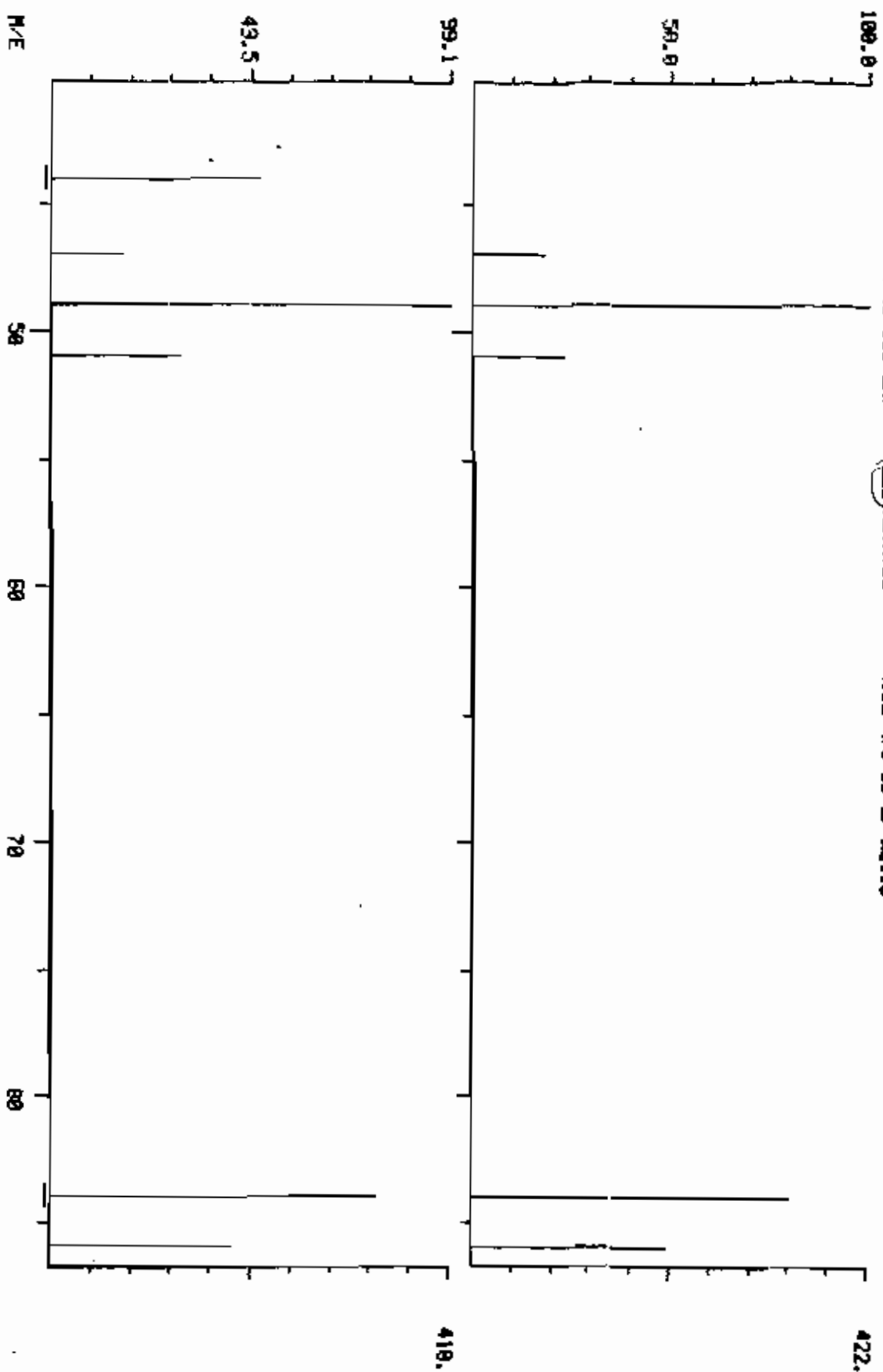


COMPUchem LABS

DATA: 08900515C19 0115

BASE M/E: 49/ 49
R1C1: 1141.7 1379.

DUAL MASS SPECTRUM
08/15/98 4:15:00 + 1.26
SAMPLE: SWL URUX PQ ON DUAL19
ELIMATED (S 138 2H) **777** NITROGEN CHLORIDE (75-69-2) M:115



VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	248	45600	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
230	101	TRICHLOROFLUOROMETHANE				BDL	10
201	56	ACROLEIN				BDL	90
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
285	142	IODOMETHANE				BDL	10
297	117	1,1,1-TRICHLORO-2,2,2-TRIFL				BDL	10
266	85	1,1,2-TRICHLORO-1,2,2-TRIFL				BDL	10
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (18)	379	180000	50.0		
298	76	3-CHLOROPROPENE				BDL	15
222	84	METHYLENE CHLORIDE			2.1	2J	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
202	53	ACRYLONITRILE				BDL	120
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
272	70	CROTONALDEHYDE				BDL	100
270	117 I	D5-CHLOROBENZENE (18)	751	121000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
286	174	DIBROMOMETHANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
210	63	2-CHLOROETHYL VINYL ETHER				BDL	10
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	15
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
287	69	ETHYLMETHACRYLATE				BDL	10
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	15
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5

CORRECTED/REVIEWED BY C. K. H. S.
(GC/MS DATA REVIEWER)DATE 5/16/91

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
245	107	1,2-DIBROMOETHANE				BDL	5
207	112	CHLOROBENZENE				BDL	5
273	131	1,1,1,2-TETRACHLOROETHANE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
274	88	CIS-1,4-DICHLORO-2-BUTENE				BDL	15
275	110	1,2,3-TRICHLOROPROPANE				BDL	15
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
290	53	TRANS-1,4-DICHLORO-2-BUTENE				BDL	15
262	157	1,2-DIBROMO-3-CHLOROPROPANE				BDL	10
258	65 S	04-1,2-DICHLOROETHANE WE#57			48.4	97. X	
247	99 S	BROMOFLUOROBENZENE			51.6	103. X	
233	98 S	08-TOLUENE WE#59 SB#2			51.7	103. X	
289	106	XYLENES (TOTAL)				BDL	5
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
		3631.	1378	346600.		303.8	2.

CORRECTED/REVIEWED BY *E. K. Smith*
(GC/MS DATA REVIEWER)

DATE 5-16-90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKOH

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: VBLKOH
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB900518A19
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 05/18/90
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	5	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	2	J
67-64-1	-----Acetone	12	
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKOH

Lab Name: COMPUCHEM LABS Contract: 255501
Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: Q1
Matrix: (soil/water) WATER Lab Sample ID: VBLKOH
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB900518A19
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 05/18/90
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

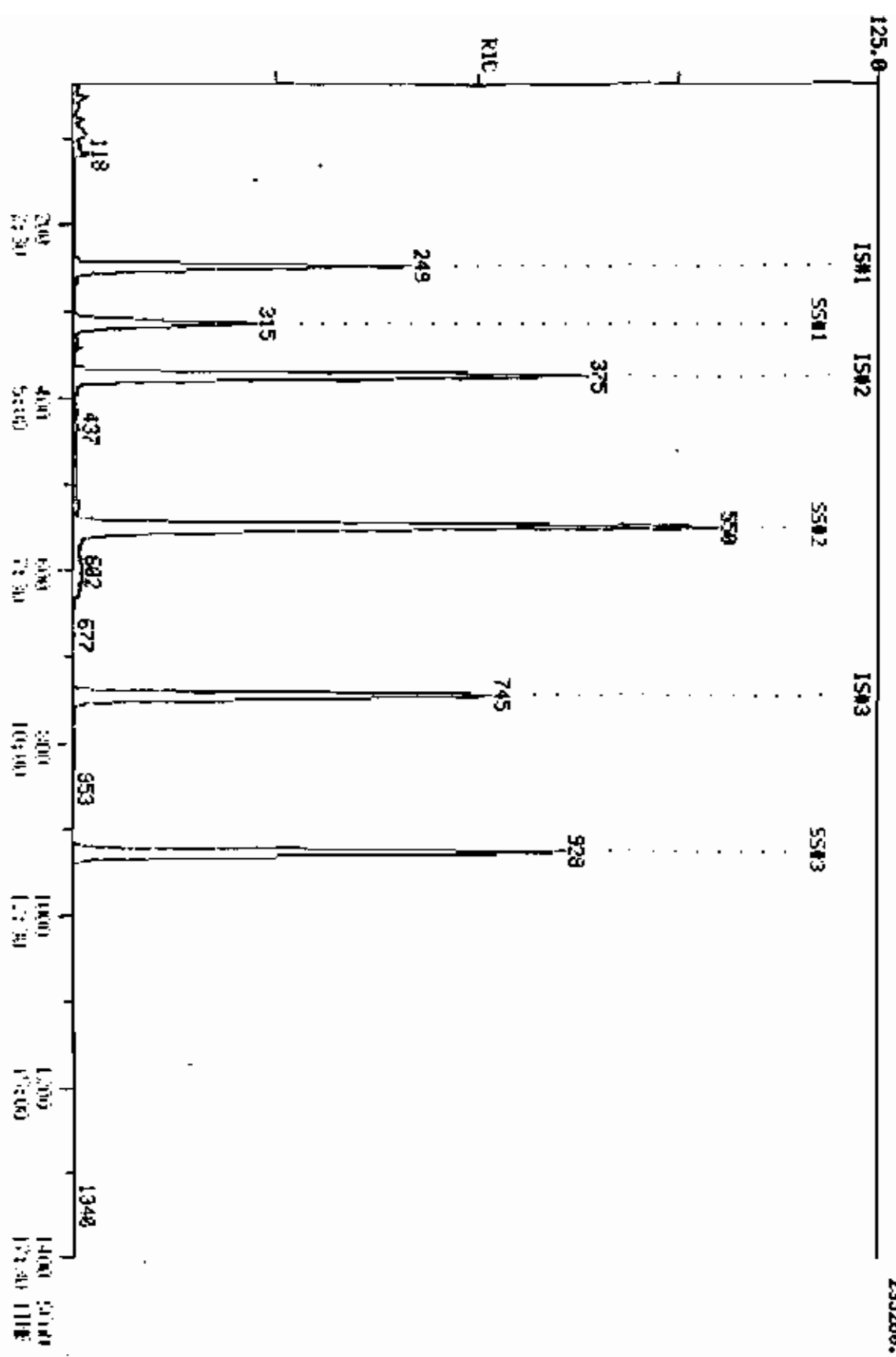
FORM I VOA-TIC

1/87 Rev.

RIC
05/18/90 19:38:00
SAMPLE: 27L UOBLK CH CH #13
COND5.1

COMPUCHEN LABS
COMPUCHEN DATA, ORGANIS1919 SCANS 37 TO 1400

233280.



QUANTITATION REPORT FILE: C8900518A19
DATA: C8900518A19.TI
25/10/90 19:30:00
SAMPLE: 5ML VBLK DM ON #19 ✓
CONDS.:
SUBMITTED BY: 19 ANALYST: 1009 ✓

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY ✓

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-3> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLORDETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO	NAME
47	219 ETHYLBENZENE <100-41-4> WE#47
48	330 M, P-XYLENE <133-02-7> WE#48
49	239 O-XYLENE <133-02-7> WE#49
50	251 STYRENE <100-42-5> WE#50
51	205 BROMOFORM <75-25-2> WE#51
52	274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
53	275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
54	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
55	290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
56	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
57	#258 D4-1,2-DICHLOROETHANE WE#57 SS#1
58	#247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
59	#233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HCMT)	AMOUNT	XTOT
1	128	249	3:07	1	1.000	A BB	116898.	50.000 UG/L	17.14
2	30	NOT FOUND							
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	101	NOT FOUND							
7	56	NOT FOUND							
8	96	NOT FOUND							
9	76	NOT FOUND							
10	142	NOT FOUND							
11	117	NOT FOUND							
12	85	NOT FOUND							
13	43	96	1:12	1	0.386	A BV	11185.	12.119 UG/L	4.15 Y
14	114	375	4:41	14	1.000	A BB	540335.	50.000 UG/L	17.14
15	76	NOT FOUND							
16	84	118	1:28	1	0.474	A BB	4405.	1.633 UG/L	0.56 T
17	96	NOT FOUND							
18	53	NOT FOUND							
19	63	NOT FOUND							
20	43	NOT FOUND							
21	96	NOT FOUND							
22	72	NOT FOUND							
23	83	NOT FOUND							
24	97	NOT FOUND							
25	117	NOT FOUND							
26	78	NOT FOUND							
27	62	NOT FOUND							
28	70	NOT FOUND							
29	117	745	9:19	29	1.000	A BB	341607.	50.000 UG/L	17.14
30	130	NOT FOUND							
31	63	NOT FOUND							
32	174	NOT FOUND							
33	83	NOT FOUND							
34	63	NOT FOUND							
35	75	NOT FOUND							
36	43	NOT FOUND							
37	92	NOT FOUND							
38	75	NOT FOUND							
39	97	NOT FOUND							
40	69	NOT FOUND							
41	164	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (H&HT)	AMOUNT	XTOT
42	43	NOT FOUND							
43	129	NOT FOUND							
44	107	NOT FOUND							
45	112	NOT FOUND							
46	131	NOT FOUND							
47	106	NOT FOUND							
48	106	NOT FOUND							
49	106	NOT FOUND							
50	104	NOT FOUND							
51	173	NOT FOUND							
52	88	NOT FOUND							
53	110	NOT FOUND							
54	83	NOT FOUND							
55	93	NOT FOUND							
56	157	NOT FOUND							
57	65	315	3:56	1	1.265	A BB	166955	39.070 UG/L	13.39
58	95	928	11:36	29	1.246	A BB	212718	43.410 UG/L	14.88
59	98	550	6:52	29	0.738	A BB	539952	45.559 UG/L	15.62

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:05	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:31		10.000			50.00		0.485	
3	0:34		10.000			50.00		0.624	
4	0:38		10.000			50.00		1.306	
5	0:42		10.000			50.00		0.899	
6	0:47		10.000			50.00		2.749	
7	1:04		90.000			500.00		0.083	
8	1:04		5.000			50.00		1.407	
9	1:08		5.000			50.00		3.508	
10	1:08		10.000			50.00		4.544	
11	1:08		10.000			50.00		1.583	
12	1:08		10.000			50.00		1.514	
13	1:12	1.00	10.000	0.04	12.12	50.00	0.096	0.395	0.24
14	4:38	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:22		15.000			50.00		0.462	
16	1:28	1.00	5.000	0.09	1.63	50.00	0.038	1.154	0.03
17	1:41		5.000			50.00		1.195	
18	1:46		120.000			500.00		0.156	
19	2:07		5.000			50.00		1.738	
20	2:19		10.000			50.00		0.305	
21	2:49		5.000			50.00		1.171	
22	2:58		10.000			50.00		0.061	
23	3:20		5.000			50.00		2.644	
24	3:21		5.000			50.00		0.589	
25	3:32		5.000			50.00		0.619	
26	3:52		5.000			50.00		0.575	
27	4:01		5.000			50.00		1.975	
28	4:34		100.000			500.00		0.015	
29	9:15	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:52		5.000			50.00		0.461	
31	5:12		5.000			50.00		0.273	
32	5:23		5.000			50.00		2.024	
33	5:48		5.000			50.00		0.701	
34	6:29		10.000			50.00		0.203	
35	6:31		5.000			50.00		0.707	
36	6:58		15.000			50.00		0.533	

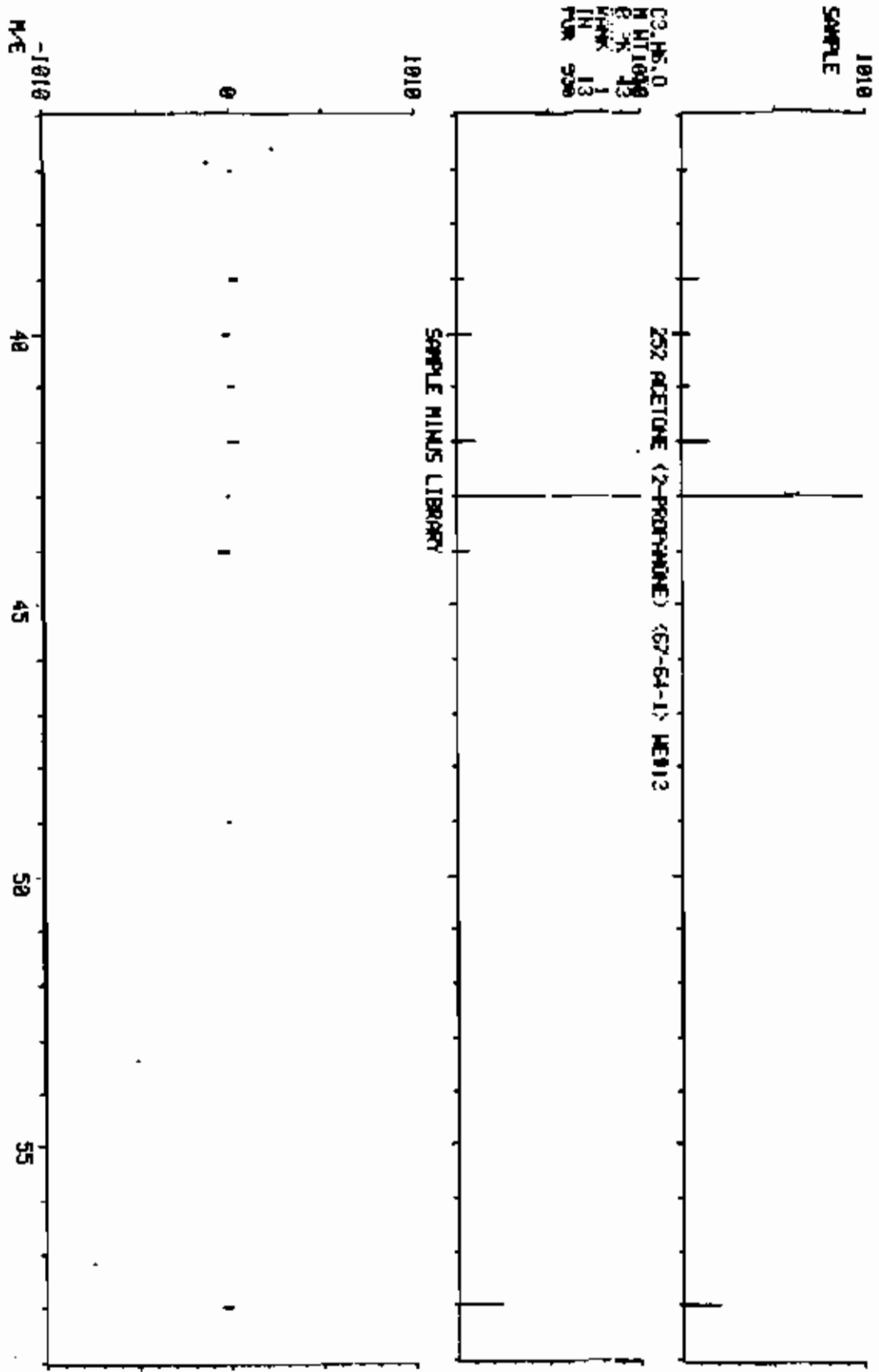
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	6:55		5.000			50.00		1.061	
38	7:04		5.000			50.00		0.325	
39	7:48		5.000			50.00		0.218	
40	7:55		10.000			50.00		0.312	
41	7:43		5.000			50.00		0.615	
42	8:27		15.000			50.00		0.128	
43	8:22		5.000			50.00		0.422	
44	8:22		5.000			50.00		0.358	
45	9:17		5.000			50.00		0.685	
46	9:34		5.000			50.00		0.429	
47	9:37		5.000			50.00		0.408	
48	9:52		5.000			50.00		0.578	
49	10:32		5.000			50.00		0.578	
50	10:37		5.000			50.00		1.005	
51	10:52		5.000			50.00		0.290	
52	11:38		15.000			50.00		0.093	
53	12:01		15.000			50.00		0.187	
54	12:10		5.000			50.00		0.347	
55	12:13		15.000			50.00		0.112	
56	16:02		10.000			100.00		0.147	
57	3:54	1.01	5.000	0.25	39.07	50.00	1.422	1.628	0.78
58	11:31	1.01	5.000	0.25	43.41	50.00	0.623	0.717	0.87
59	6:49	1.01	5.000	0.15	48.56	50.00	1.591	1.739	0.91

COMPUCHEM LABS

DATA: 08900518A19 # 96 BASE M/E: 43
R101 2067.

LIBRARY SEARCH
05/10/90 19:20:00 + 1.12
SAMPLE: 9ML YBLK OIL ON #19
CHANGED (5 158 21 87)

CO. HS. 0
M HT 1010
E % 43
WAK 1
IN 13
PUR 998

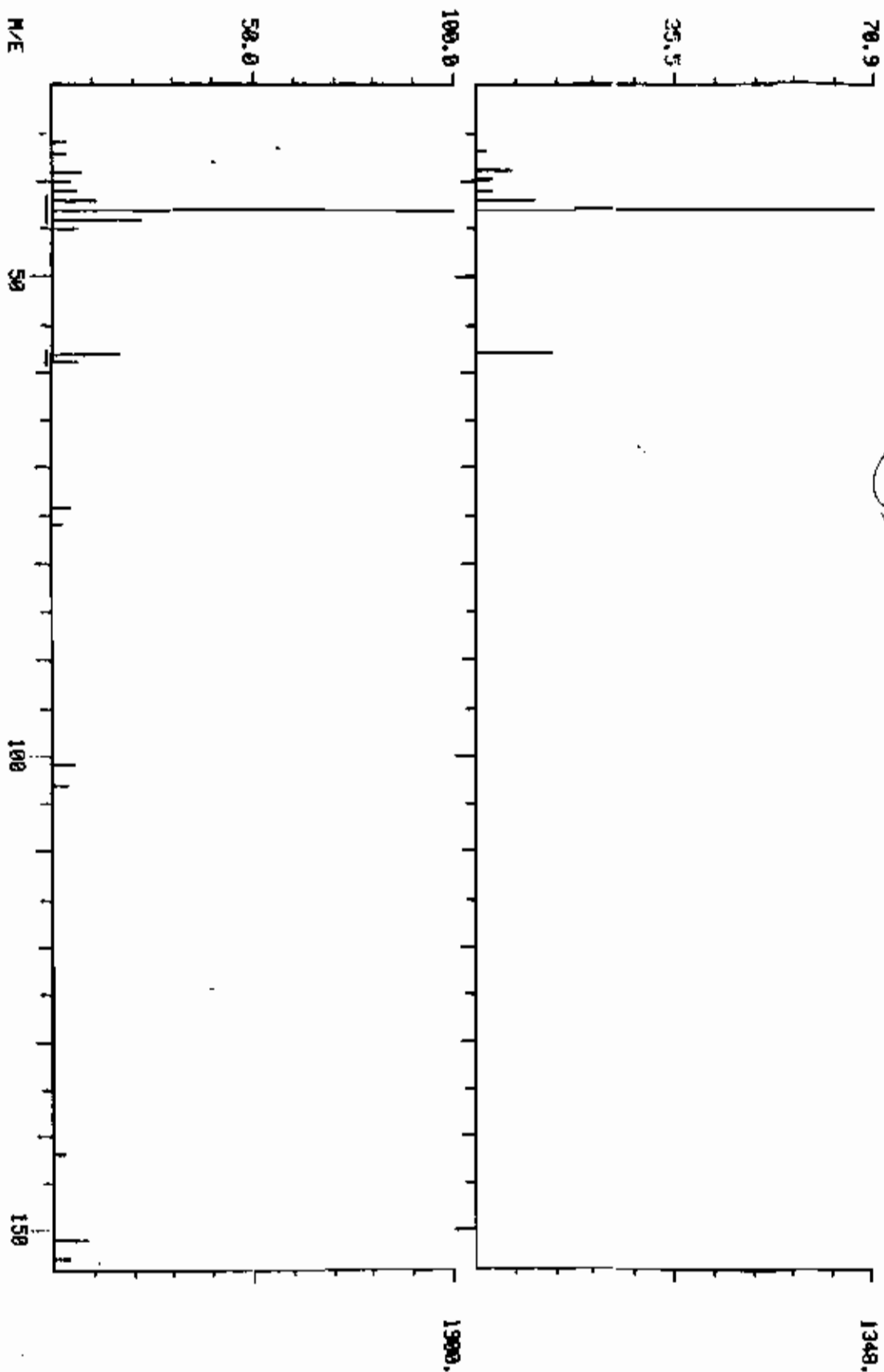


COMPUCHER LABS

DATA: C8900518A19 #96

BOSE M/E: 43/ 43
RIC: 2067.7

DUAL MASS SPECTRUM
08/18/90 19:36:00 + 1:12
SAMPLE: SML UBK OH OH #19
ENLARGED (5 150 2X) 252 ACETONE (2-PROPANONE) (57-64-1) #213

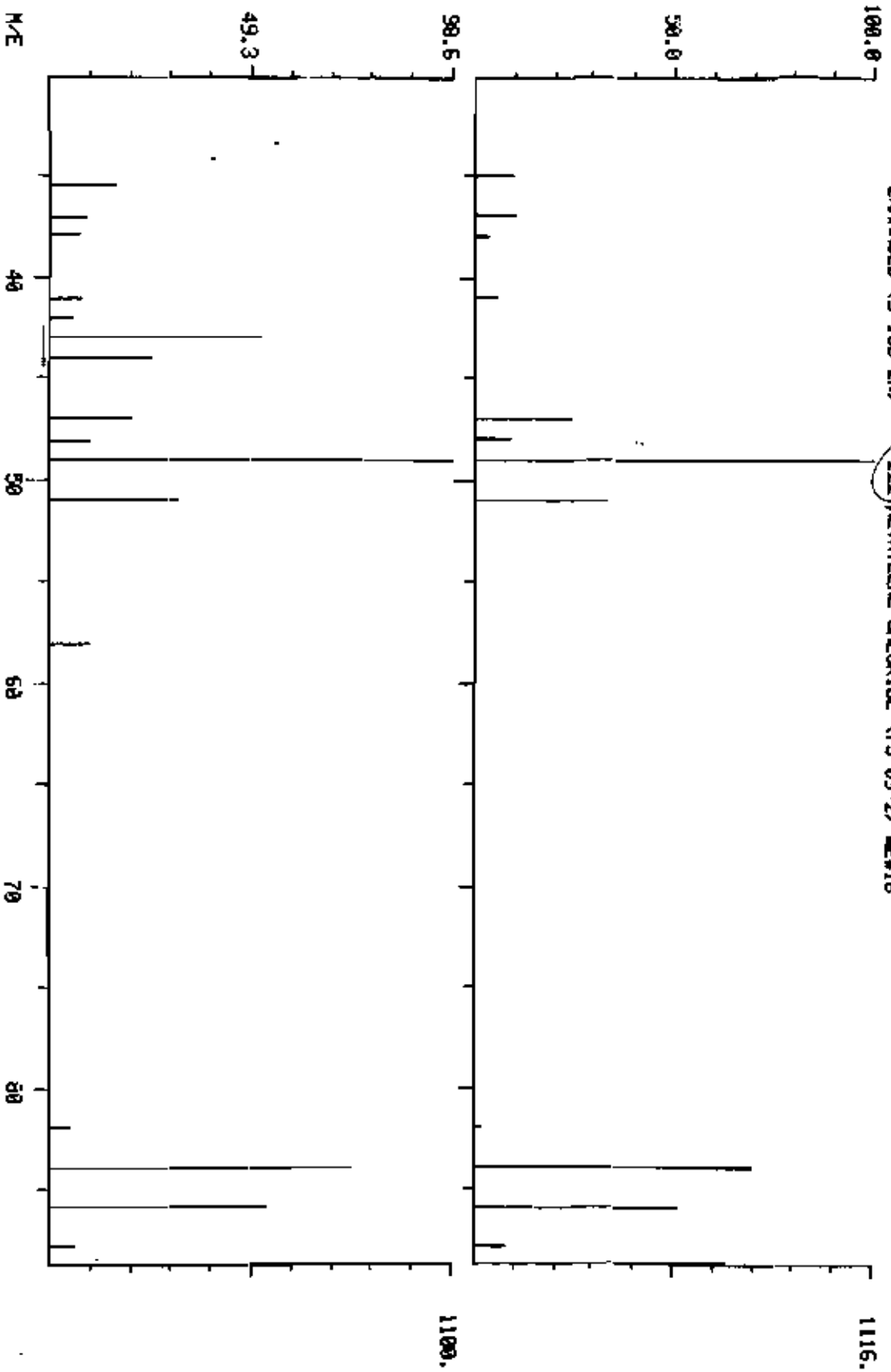


COMPUCHEN LABS

DATA: 08300518A19 #118

BASE M/E: 49/ 49
R101 3622. ✓ 4799.

DUAL MASS SPECTRUM
05/18/98 10:20:00 + 1:28
SAMPLE: SWL UBLK ON ON #19
EMPHASIS (5 158 2N) 222 METHYLENE CHLORIDE (75-09-2) LC#16



VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMF #	N/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	249	117000	50.0		
231	30	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
230	101	TRICHLOROFLUOROMETHANE				BDL	10
201	56	ACROLEIN				BDL	90
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
285	142	IODOMETHANE				BDL	10
287	117	1,1,1-TRICHLORO-2,2,2-TRIFL				BDL	10
266	89	1,1,2-TRICHLORO-1,2,2-TRIFL				BDL	10
252	43	ACETONE (2-PROPANONE)			12.1	12	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	375	540000	50.0		
296	76	3-CHLOROPROPENE				BDL	15
222	84	METHYLENE CHLORIDE			1.6	2J	5
224	96	TRANS-1,2-DICHLOROETHENE				BDL	5
202	53	ACRYLONITRILE				BDL	120
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
227	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
208	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
219	62	1,2-DICHLOROETHANE				BDL	5
272	70	CROTONALDEHYDE				BDL	100
270	117 I	D5-CHLOROBENZENE (IS)	745	342000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
286	174	DIBROMOMETHANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
210	63	2-CHLOROETHYL VINYL ETHER				BDL	10
218	79	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	15
228	92	TOLUENE				BDL	5
250	79	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
287	69	ETHYLMETHACRYLATE				BDL	10
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	15
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5

CORRECTED/REVIEWED BY C. S. A. -
(GC/MS DATA REVIEWER)DATE 5.19.90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMF #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
245	107	1,2-DIBROMOETHANE				BDL	5
207	112	CHLOROBENZENE				BDL	5
273	131	1,1,1,2-TETRACHLOROETHANE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M,P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
274	88	CIS-1,4-DICHLORO-2-BUTENE				BDL	15
275	110	1,2,3-TRICHLOROPROPANE				BDL	15
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
290	93	TRANS-1,4-DICHLORO-2-BUTENE				BDL	15
262	137	1,2-DIBROMO-3-CHLOROPROPANE				BDL	10
253	65 S	04-1,2-DICHLOROETHANE WE#57			39.1	78. X	
247	75 B	BROMOFLUOROBENZENE			43.4	87. X	
233	98 S	08-TOLUENE WE#59 SS#2			45.6	91. X	
229	106	XYLENES (TOTAL)				BDL	5
229	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
		5631.	1369	999000.	291.8		14.

CORRECTED/REVIEWED BY C. ESTER
(SC/RS DATA REVIEWER)

DATE 5-19-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
57	258	D4-1,2-DICHLOROETHANE WE#57	39.1	50.0	78.	76-114	X	
58	247	BROMOFLUOROBENZENE	43.4	50.0	87.	86-113	X	
59	233	D8-TOLUENE WE459 SS42	45.6	50.0	91.	88-110	X	

* ADVISORY SURROGATE ONLY
 ** % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARKING.
 SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY *C. J. H. ...*
 (GC/MS DATA REVIEWER)
 DATE 5.19.90

(3) **Matrix Spike Data**

- (a) Tabulated results (Form I VOA) of nonspiked TCL compounds. Form I VOA - TIC not required.
- (b) Reconstructed ion chromatogram (a) and quantitation report (a) or legible facsimile (GC/MS). Spectra not required.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800112MS

Lab Name: COMPUCHEM LABS Contract: 255501
 Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01
 Matrix: (soil/water) WATER Lab Sample ID: 337378
 Sample wt/vol: 2.0 (g/mL) ML Lab File IO: CN037378C19
 Level: (low/med) LOW Date Received: 05/08/90
 † Moisture: not dec. _____ Date Analyzed: 05/16/90
 Column: (pack/cap) CAP Dilution Factor: 1.0

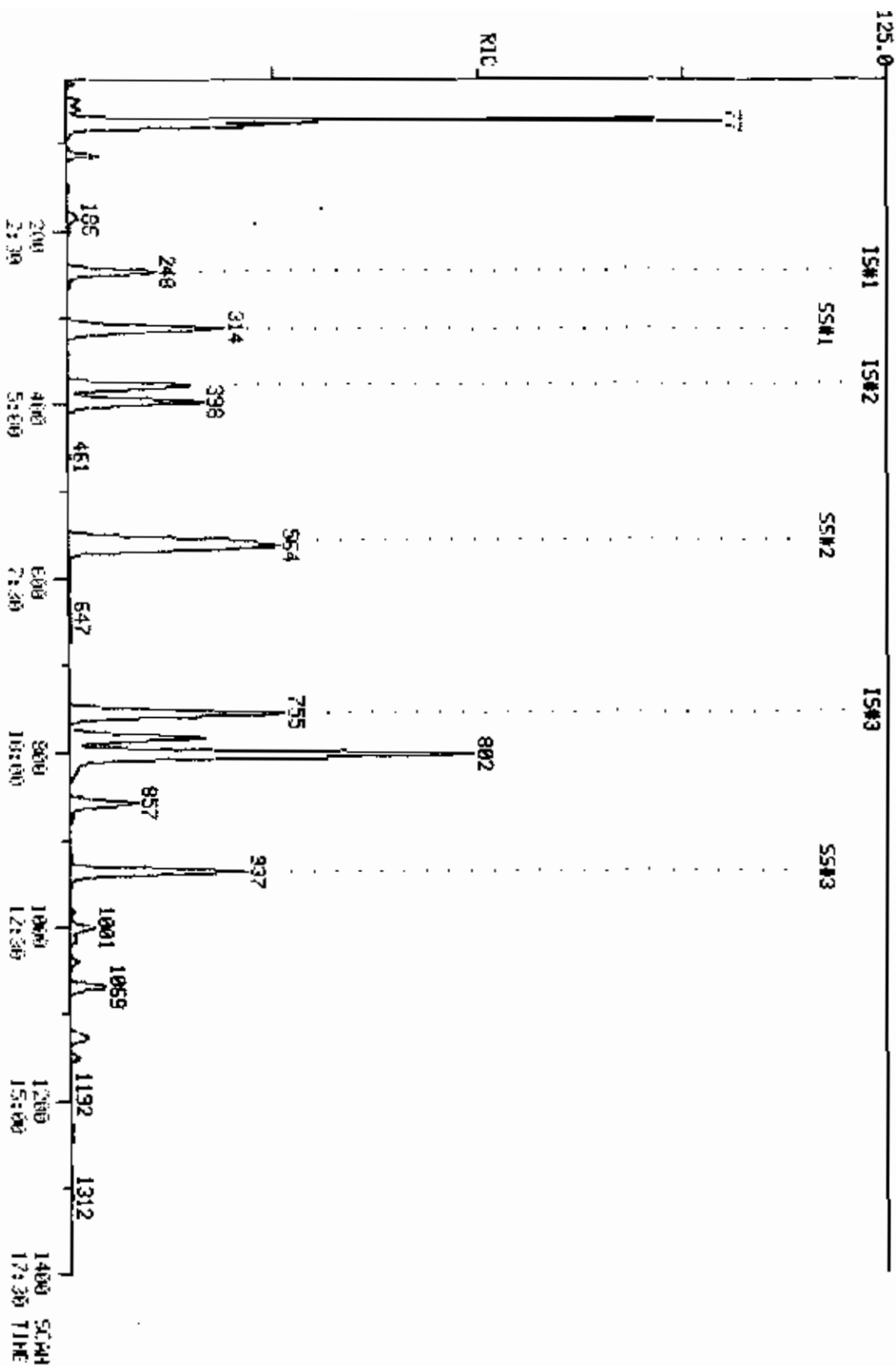
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	26	
75-09-2	Methylene Chloride	29	B
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	Trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-Pentanone	38	U
591-78-6	2-Hexanone	38	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	160	
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	470	

COMPUCHEN LABS

COMPUCHEN DATA C:\MSDCHEM\SCANS 29 TO 1400

RIC
05/16/90 11:51:00
SAMPLE 2000UL CASE# 20124 CC# 337378 EPA# 73800112 RE MS ON 13
COMDS.:
SP# 8-17-90

326400.



QUANTITATION REPORT FILE: CN03737BC19
DATA: CN03737BC19.T1
05/16/90 1:51:00
SAMPLE: 2000UL CASE# 20124 CC# 337378 EPA# 73800112 RE NS DN 19
CONDS.:
SUBMITTED BY: 19 ANALYST: 1171 ⁵⁻¹⁷⁻⁹⁰

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-38-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	213 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-3> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 OIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 O4-1,2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 BE#3
 59 #233 D8-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	128	247	3:05	1	1.000	A BB	47684.	50.000 UG/L	5.84
2	50	NOT FOUND							
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	52	0:39	1	0.211	A BB	8953.	10.225 UG/L	1.19 <i>yes</i>
6	101	NOT FOUND							
7	56	NOT FOUND							
8	96	83	1:02	1	0.336	A BB	62467.	39.368 UG/L	4.60 <i>yes</i>
9	76	NOT FOUND							
10	142	NOT FOUND							
11	117	NOT FOUND							
12	89	NOT FOUND							
13	43	96	1:12	1	0.389	A VB	1387.	4.333 UG/L	0.51 <i>ND</i>
14	114	379	4:44	14	1.000	A BB	189729.	50.000 UG/L	5.84
15	76	NOT FOUND							
16	84	115	1:26	1	0.466	A BB	12882.	11.621 UG/L	1.36 <i>yes</i>
17	96	NOT FOUND							
18	93	NOT FOUND							
19	63	NOT FOUND							
20	43	186	2:19	14	0.491	A BB	10285.	8.156 UG/L	0.95 <i>ND</i>
21	96	NOT FOUND							
22	72	NOT FOUND							
23	83	NOT FOUND							
24	97	NOT FOUND							
25	117	NOT FOUND							
26	78	313	3:55	14	0.826	A BB	172353.	76.682 UG/L	8.95 <i>yes</i>
27	62	NOT FOUND							
28	70	NOT FOUND							
29	117	753	9:25	29	1.000	A BB	140464.	50.000 UG/L	5.84
30	130	398	4:58	14	1.030	A BB	94444.	48.331 UG/L	5.64 <i>yes</i>
31	63	NOT FOUND							
32	174	NOT FOUND							
33	83	NOT FOUND							
34	63	NOT FOUND							
35	75	NOT FOUND							
36	43	568	7:06	29	0.754	A VV	1379.	1.185 UG/L	0.14 <i>ND</i>
37	92	564	7:03	29	0.749	A BB	154314.	33.700 UG/L	6.50 <i>yes</i>
38	75	NOT FOUND							
39	97	NOT FOUND							
40	69	NOT FOUND							
41	164	NOT FOUND							

NO	M/E	SCAN	TJME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
42	43	NOT FOUND							
43	129	NOT FOUND							
44	107	NOT FOUND							
45	112	756	9:27	29	1.004	A BB	133954.	57.520 UG/L	6.71 ^{UGS}
46	131	NOT FOUND							
47	106	783	9:47	29	1.040	A BV	71838.	65.453 UG/L	7.64 ^{UGS}
48	106	802	10:01	29	1.065	A VB	239932.	153.639 UG/L	17.94 ^{UGS}
49	106	857	10:43	29	1.138	A BV	46924.	32.066 UG/L	3.74 ^{UGS}
50	104	NOT FOUND							
51	173	NOT FOUND							
52	88	NOT FOUND							
53	110	NOT FOUND							
54	83	NOT FOUND							
55	53	NOT FOUND							
56	157	NOT FOUND							
57	65	316	3:57	1	1.279	A BB	61726.	49.137 UG/L	5.74
58	95	937	11:43	29	1.244	A BB	79247.	47.318 UG/L	5.52
59	98	557	6:58	29	0.740	A BB	197909.	45.982 UG/L	5.37
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27		10.000			50.00		0.400	
3	0:33		10.000			50.00		0.503	
4	0:37		10.000			50.00		0.813	
5	0:40	0.98	10.000	0.02	10.22	50.00	0.188	0.918	0.20
6	0:46		10.000			50.00		3.951	
7	1:04		90.000			500.00		0.095	
8	1:03	0.99	5.000	0.07	39.37	50.00	1.310	1.664	0.79
9	1:07		5.000			50.00		4.561	
10	1:07		10.000			50.00		4.572	
11	1:06		10.000			50.00		1.658	
12	1:07		10.000			50.00		1.641	
13	1:12	1.00	10.000	0.04	4.33	50.00	0.027	0.336	0.09
14	4:43	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:21		15.000			50.00		0.491	
16	1:28	0.98	5.000	0.09	11.62	50.00	0.270	1.162	0.23
17	1:40		5.000			50.00		1.149	
18	1:45		120.000			500.00		0.154	
19	2:07		5.000			50.00		1.329	
20	2:20	0.99	10.000	0.05	8.16	50.00	0.054	0.332	0.16
21	2:49		5.000			50.00		1.128	
22	3:01		10.000			50.00		0.067	
23	3:21		5.000			50.00		2.050	
24	3:22		5.000			50.00		0.546	
25	3:34		5.000			50.00		0.634	
26	3:55	1.00	5.000	0.17	76.68	50.00	0.908	0.592	1.53
27	4:04		5.000			50.00		1.415	
28	4:38		100.000			500.00		0.016	
29	9:22	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:58	1.00	5.000	0.21	48.33	50.00	0.498	0.515	0.97
31	5:18		5.000			50.00		0.228	
32	5:29		5.000			50.00		2.312	
33	5:55		5.000			50.00		0.767	
34	6:37		10.000			50.00		0.198	
35	6:38		5.000			50.00		0.698	
36	7:04	1.00	15.000	0.05	1.18	50.00	0.010	0.414	0.02

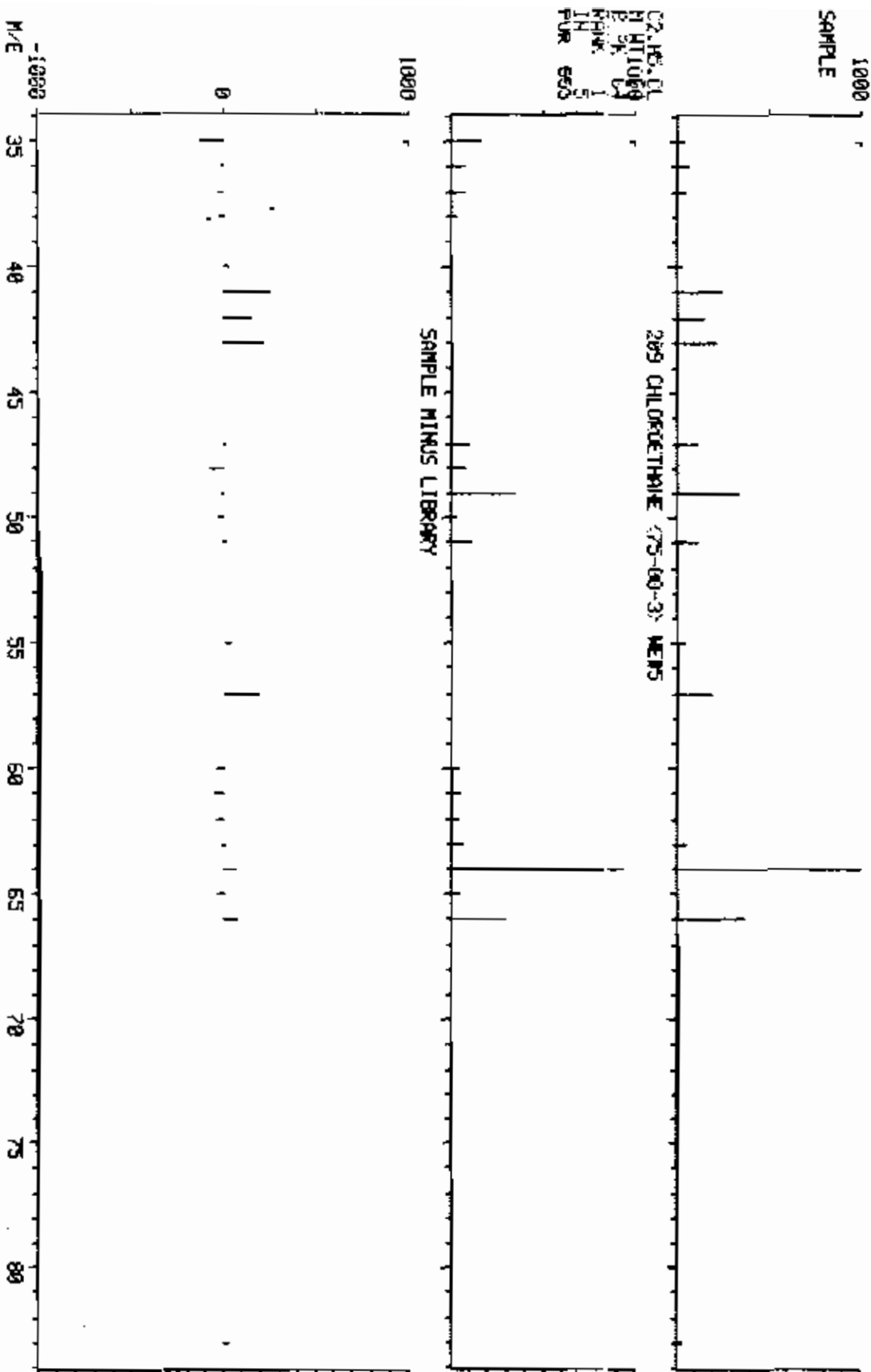
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:01	1.00	5.000	0.15	55.70	50.00	1.077	0.986	1.11
38	7:41		5.000			50.00		0.427	
39	7:55		5.000			50.00		0.450	
40	8:04		10.000			50.00		0.821	
41	7:51		5.000			50.00		0.814	
42	8:34		15.000			50.00		0.200	
43	8:29		5.000			50.00		0.749	
44	8:29		5.000			50.00		0.560	
45	9:25	1.00	5.000	0.20	57.52	50.00	0.954	0.829	1.15
46	9:43		5.000			50.00		0.348	
47	9:45	1.00	5.000	0.21	65.45	50.00	0.511	0.391	1.31
48	10:00	1.00	5.000	0.21	153.64	50.00	1.708	0.556	3.07
49	10:41	1.00	5.000	0.23	32.07	50.00	0.334	0.521	0.64
50	10:46		5.000			50.00		0.961	
51	11:01		5.000			50.00		0.618	
52	11:48		15.000			50.00		0.108	
53	12:12		15.000			50.00		0.195	
54	12:18		5.000			50.00		0.384	
55	12:23		15.000			50.00		0.095	
56	16:12		10.000			100.00		0.245	
57	3:57	1.00	5.000	0.26	49.14	50.00	1.294	1.317	0.98
58	11:40	1.00	5.000	0.25	47.32	50.00	0.564	0.596	0.95
59	6:55	1.01	5.000	0.15	45.98	50.00	1.409	1.532	0.92

COMPUCHEM LIBS

DATA: CN037378C19 # 52

BASE M/E: 64
R101 2425.

LIBRARY SEARCH
05/16/90 11:51:00 + 04:39
SAMPLE: 2000UL CASE# 20124 CO# 337378 EPA# 73000112 RE MS ON 19
ENHANCED (5 150 2N 0T)

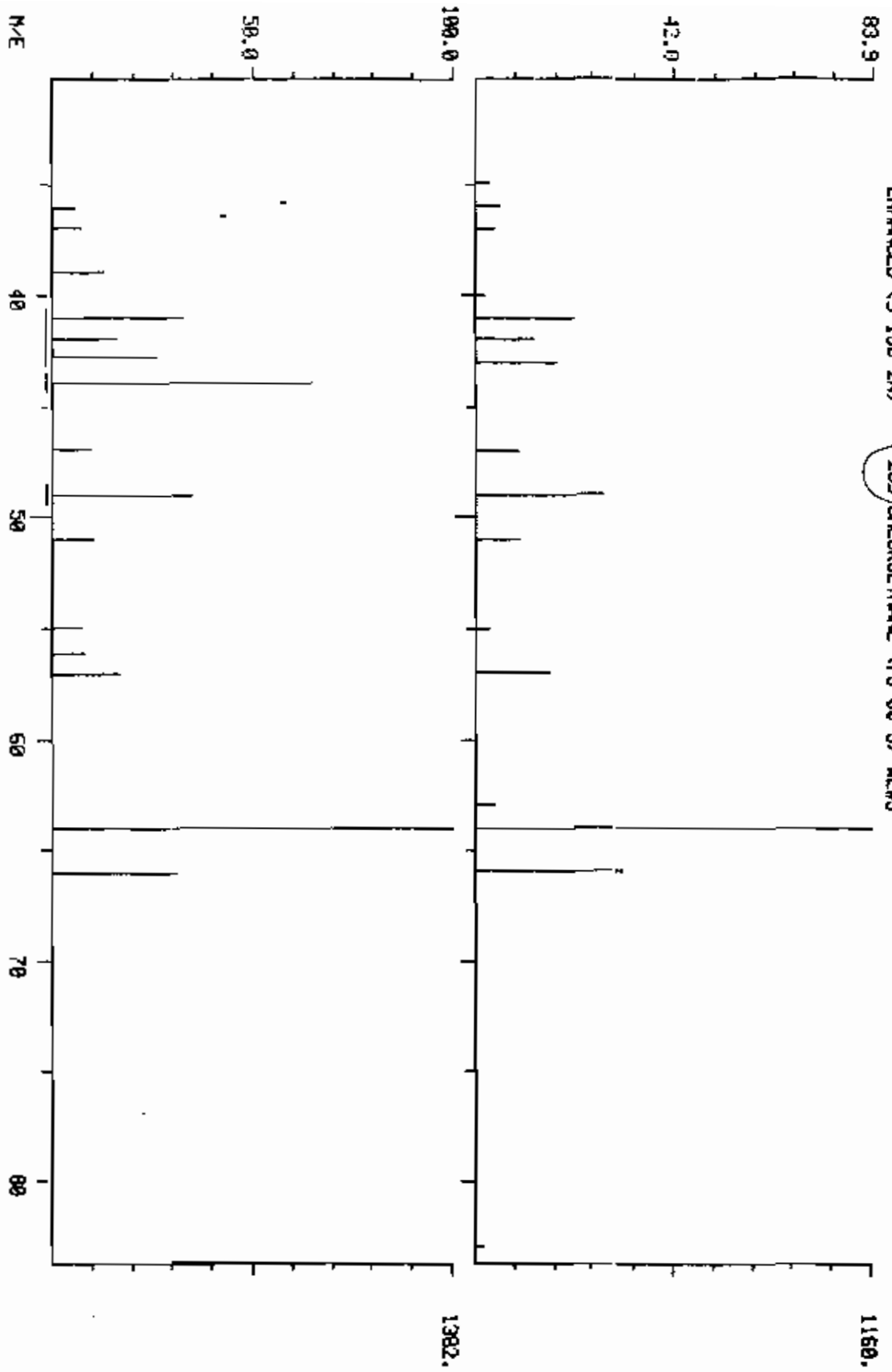


DUAL MASS SPECTRUM
05/16/90 1:51:00 + 0.39
SAMPLE: 2000UL CASE# 20124-000 337370 EPA# 73000112 RE MS ON 19
ENHANCED (5 150 2M) 205 CHLORoETHANE (75-00-3) MEAS

COMPUCHEN LABS

DATA: CH0037370C19 052

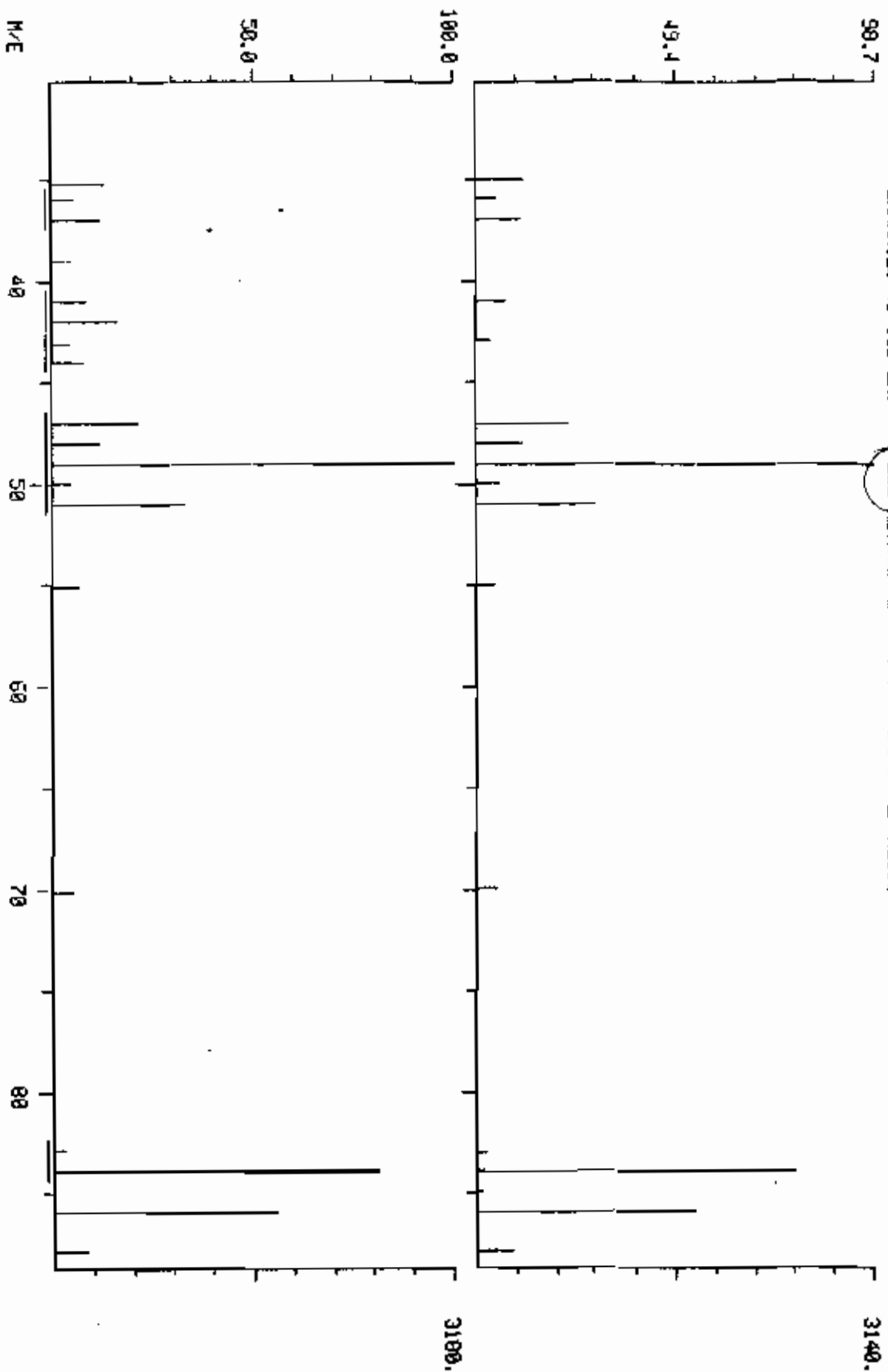
BASE M/E: 64/ 54
R1C1 3435. ✓ 8207.



COMPUCHEN LABS

DATA: CH037378C19 0115 BRSE M/E: 49/ 49
R1C: 11535. ✓ 12799.

DUAL MASS SPECTRUM
05/16/90 11:51:00 + 1:26
SAMPLE: 2000UL CASE# 20124-CC# 337378 EPA# 73800112 RE M5 ON 19
EMANATED (5 150 2N) 222 TETRILENE CHLORIDE (75-09-2) HE#15

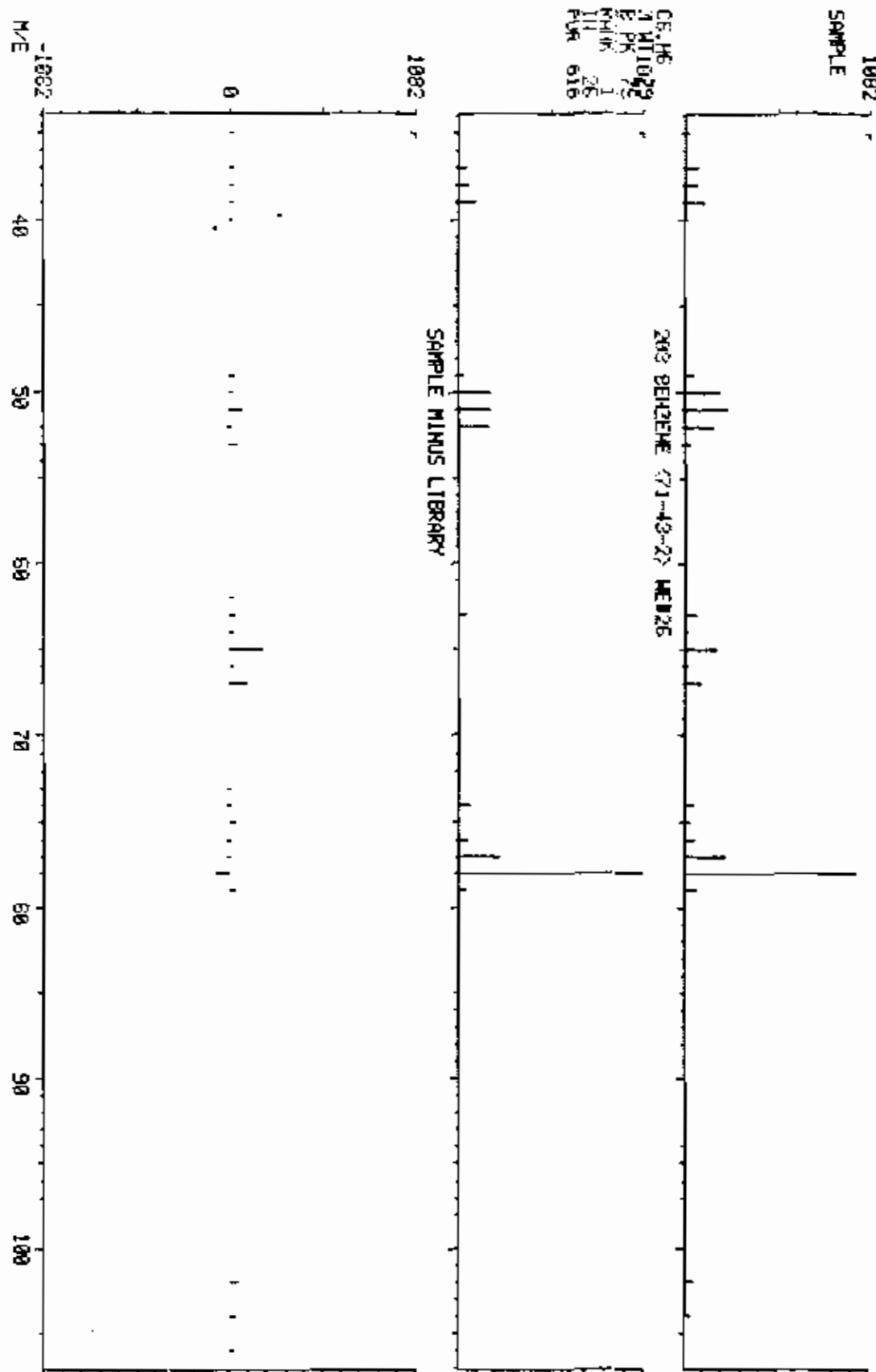


LIBRARY SEARCH
05/16/90 11:51:00 + 3:55
SAMPLE: 2000UL CASE# 20124 CC# 337378 EPA# 73809112 RE MS ON 19
EVMANED (5 158 2N 01)

1082
SAMPLE

CE-H6
1 M11029
E PK 72
KMIN 26
I1 11
FUR 616

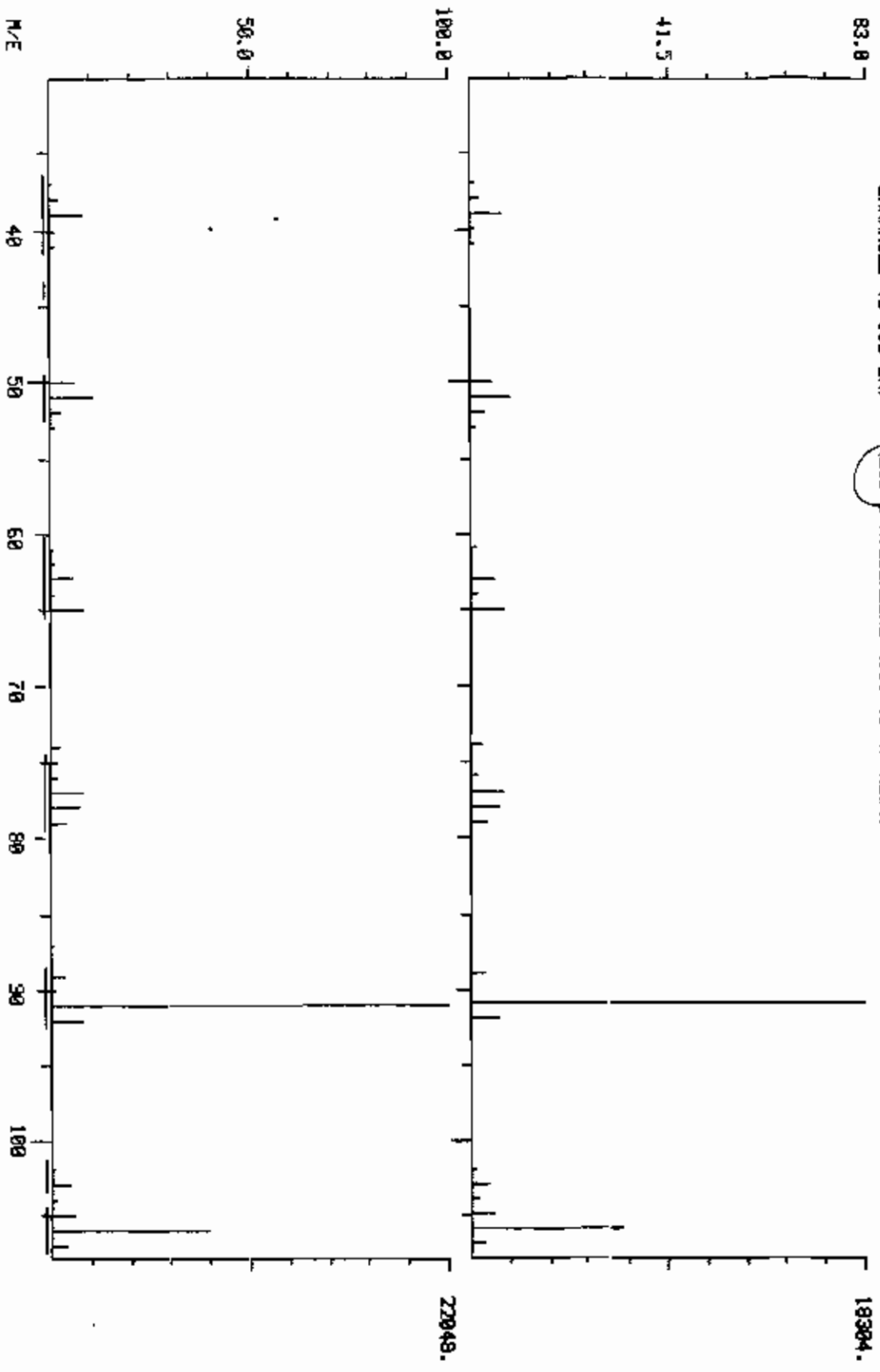
200 BENZENE (71-43-2) HEWLETT
SAMPLE MINUS LIBRARY



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/00 11:51:00 + 0147
SAMPLE: 2000UL CASE# 20/24 GC# 397378 EP#04 73809112 RE M5 ON 19
EMPHICED (5 150 2N) 219 ETHYLBENZENE (100-41-4) ME#47

DATA: CN037378C19 #703 BASE M/E: 91/ 91
P101 44005.7 SA207.



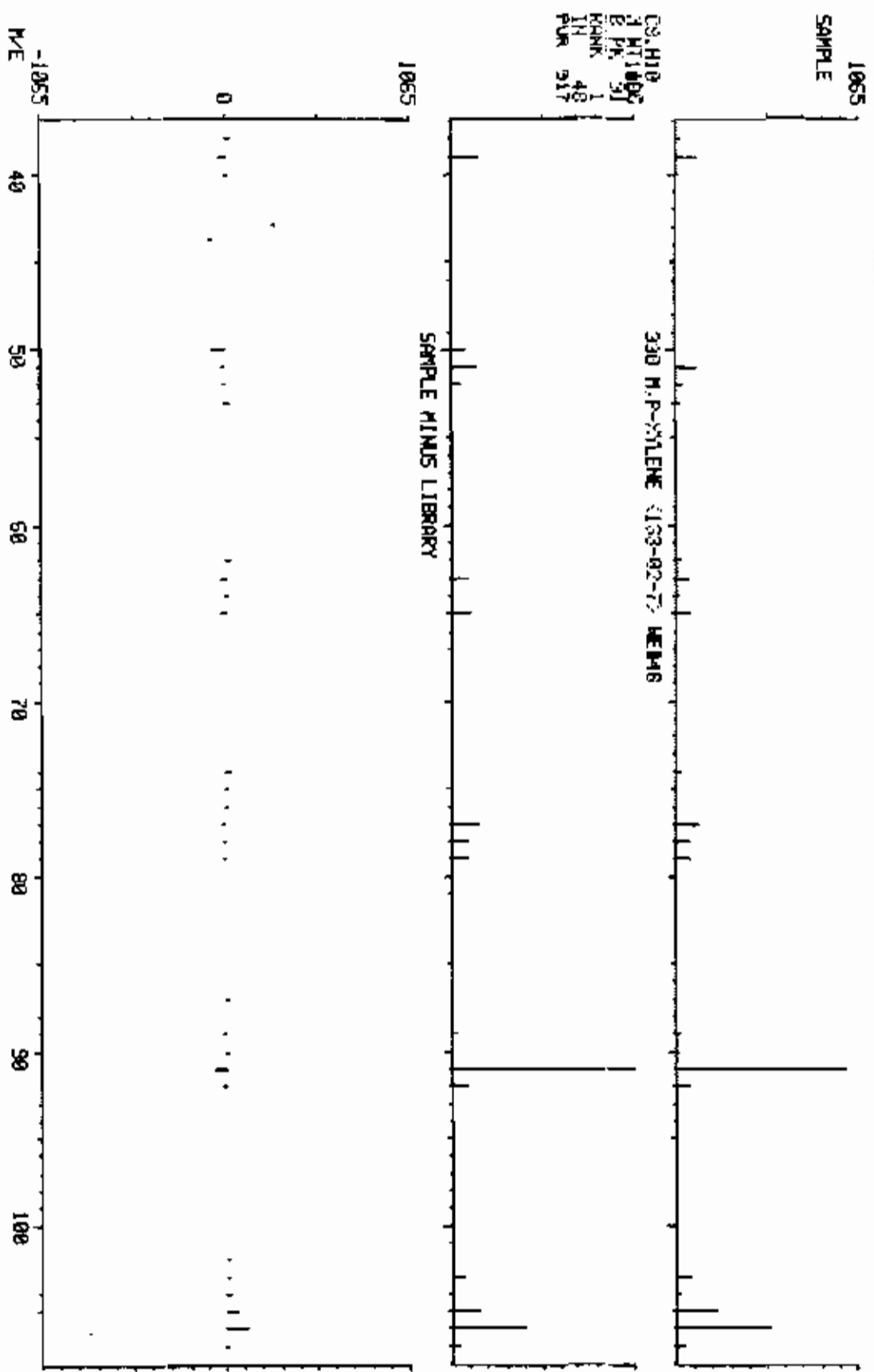
COMPUCHEM LABS

DATA: C0837378C19 11 802

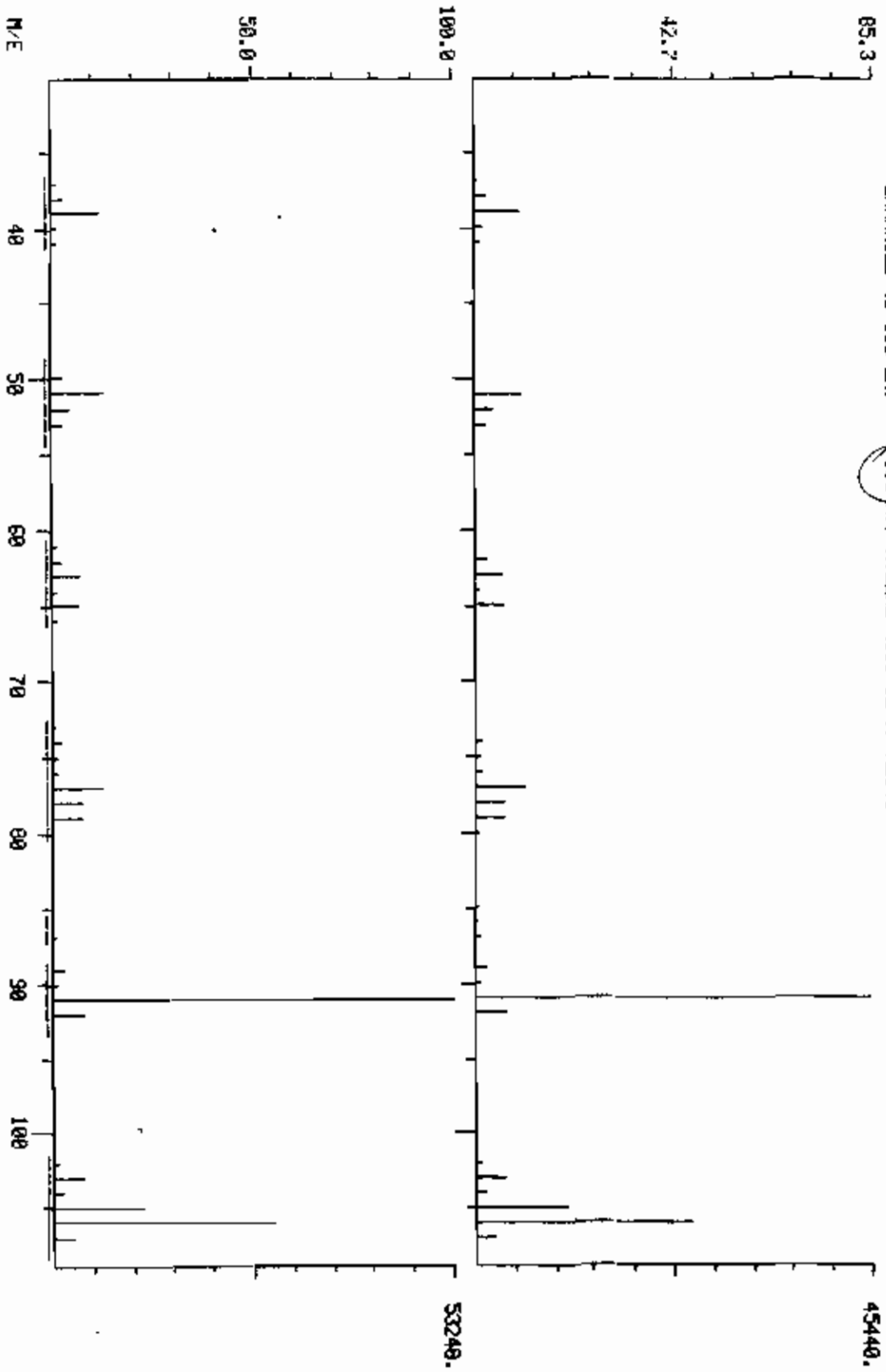
BASE N/E: 91
PIC: 122261.

LIBRARY SEARCH
05/16/90 1:51:00 + 10.91
SAMPLE: 2000UL CASE# 20124 C0# 337378 EPA# 73880112 RE MS ON 19
EXTRACTED (5 158 24 07)

C0: H10
I: H11007
E: PK 31
RANK 1
IN 48
PUR 917



DUAL MASS SPECTRUM
05/15/90 1:51:00 + 10.01
SAMPLE: 2000LL CASE# 20124 CC# 337379 EP# 73900112 RE MS ON 19
ENHANCED (5 150 21) 330 M,P-XYLENE (133-92-7) MW#48

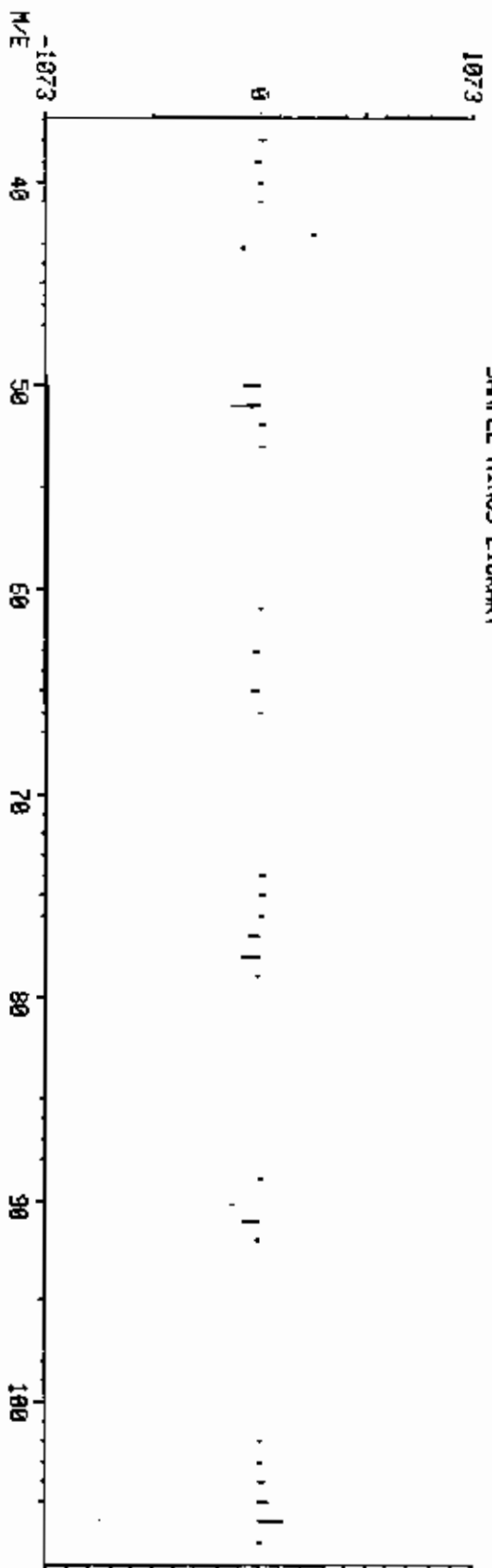
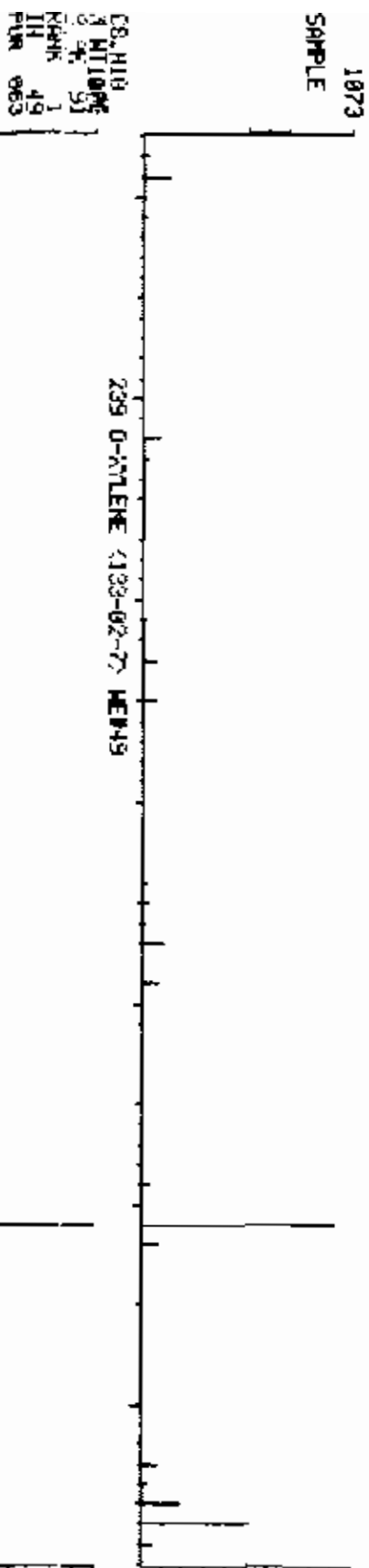


COMPUchem LABS

DATA: CN037378C19 # 857

BASE P/E: 91
R/C: 20007,

LIBRARY SEARCH
05/16/90 1:51:00 + 10:43
SAMPLE: 2000UL CASE# 20124 CC# 337378 EPA# 73800112 RE NS ON 19
ENHANCED (5 158 24 01)

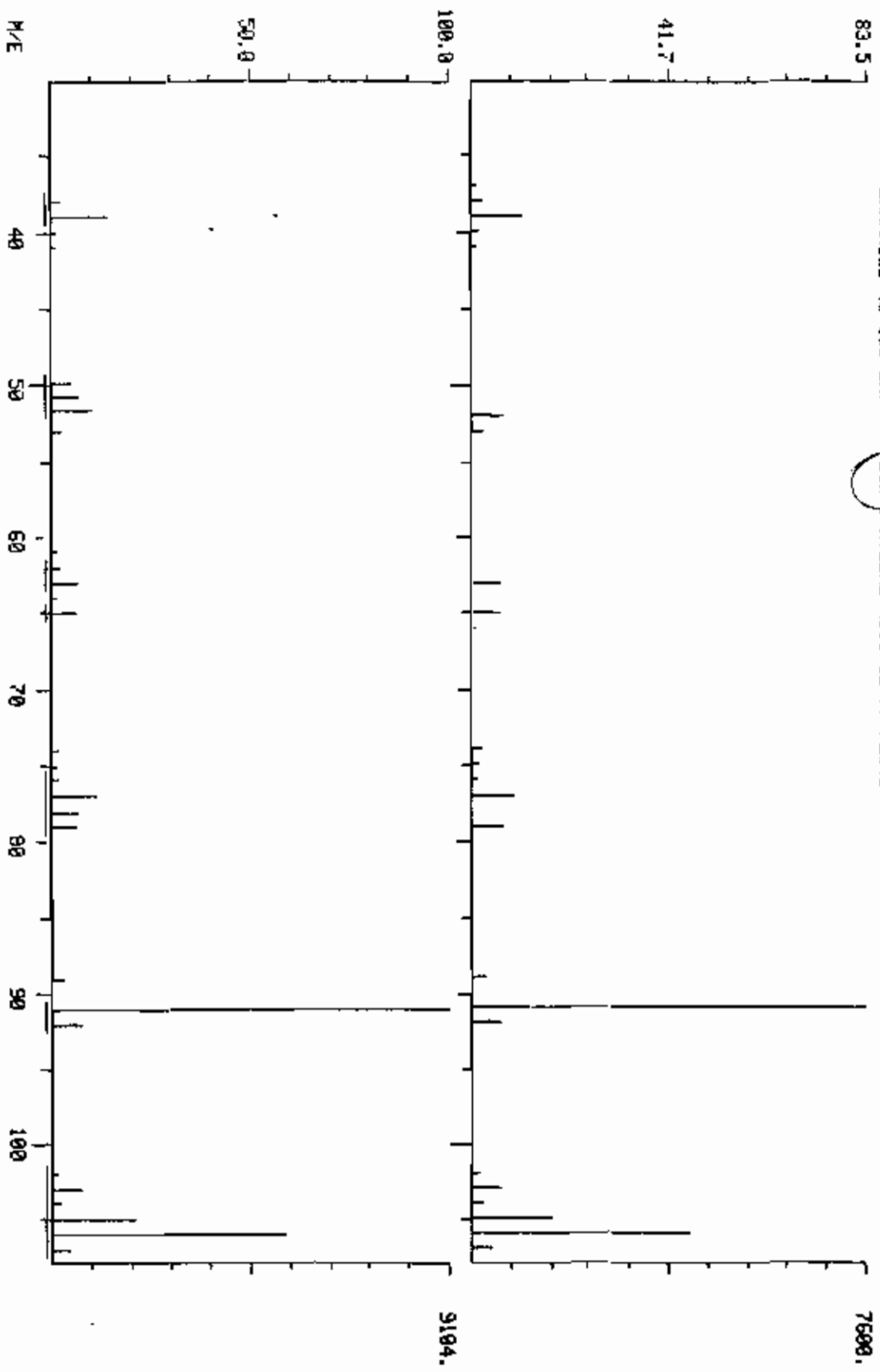


COMPUCHEM LABS

DATA: CM037378C19 W857

BASE M/E: 91 / 91
R1C1 20700. / 26620.

DUAL MASS SPECTRUM
05/16/90 1:51:00 + 10.43
SAMPLE: 2000UL CASE# 20724 CC# 337378 EPA# 73800112 RE MS ON 19
ENRANCED (5 158 2M) 239 D-XYLENE (133-82-7) ME#49



Lab Instructions:

Receipt Date: Case#: 20124 SAS/
CompuChem#: 337378

Tel 3rd Ed. 8240
GC/MS; VOA; WATER; EPA SOW 2/88

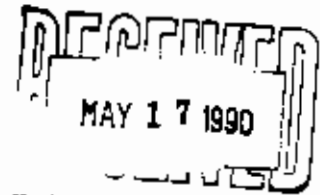
Sample Prep Code---000
Instrument Code---41289
Compound List-----493458
Surrogate Std-----394
Internal Std-----036

SDG# EPA ID# 73800112 DC AS 507/407

GC/MS Analysis WELL1

Amount Purged: [] 5.0 mL or [] Dilution 2000 uL / 5.0 mL

Internal Standard Volume Added 5 uL
Surrogate Standard Volume Added 5 uL
BFB Filename: AF900515A15
Blank Filename: CA900515A15
Standard Filename: CT900515A15
Sample Filename: CN037378C19



Analyst(s) Injection: 1712 Work-up 1712

GC/MS Review

Condition Codes



Entry Codes: OK, EA, ES, SM, JS, SL, SH, JA, DA

Non-entry Codes: IM, IL, SW, CT, CS, VC, VO, UP, PC, NR, IF, LA, DI, OT, SF, SI, CO, RN, DW

Extraneous Peak Search Results:

Number of Peaks Found: 6



Disposition

[X] Complete

[] Reinject Next

[] Dilute

Quality Assurance Notice(s):

Number of Notices Required: 1

Comments: 5/17/90

uL / 5 mL

GC/MS Review Date 5/17/90 Auditor Date

Report Integration Total # of Injections 1

Final Reportable Package(s): CN - 019

QA Comments:

Initials Date

Final Review

Initials Date

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMF					QUANT	REPORTED	DETECT.	
#	M/E	F	COMPOUND NAME	SCAN	AREA	VALUE	AMOUNT (UG/L)	LIMIT (UG/L)
204	128	I	BROMOCHLOROMETHANE (IS)	247	47700	50.0		
221	50		CHLOROMETHANE				BDL	25
231	62		VINYL CHLORIDE				BDL	25
220	94		BROMOMETHANE				BDL	25
205	64		CHLOROETHANE			10.2	25	25
230	101		TRICHLOROFLUOROMETHANE				BDL	25
201	56		ACROLEIN				BDL	220
216	96		1,1-DICHLOROETHENE			39.4	98	12
254	76		CARBON DISULFIDE				BDL	12
225	142		IODOMETHANE				BDL	25
297	117		1,1,1-TRICHLORO-2,2,2-TRIFL				BDL	25
266	85		1,1,2-TRICHLORO-1,2,2-TRIFL				BDL	25
252	43		ACETONE (2-PROPANONE)			4.3	4.3	25
248	114	I	1,4-DIFLUOROBENZENE (IS)	379	190000	50.0		
298	76		3-CHLOROPROPENE				BDL	38
222	84		METHYLENE CHLORIDE			11.6	29	12
226	96		TRANS-1,2-DICHLOROETHENE				BDL	12
202	53		ACRYLONITRILE				BDL	300
214	63		1,1-DICHLOROETHANE				BDL	12
257	43		VINYL ACETATE			6.2	20	25
227	96		CIS-1,2-DICHLOROETHENE				BDL	12
253	72		2-BUTANONE				BDL	25
211	83		CHLOROFORM				BDL	12
227	97		1,1,1-TRICHLOROETHANE				BDL	12
206	117		CARBON TETRACHLORIDE				BDL	12
233	78		BENZENE			76.7	190	12
215	62		1,2-DICHLOROETHANE				BDL	12
272	70		CROTONALDEHYDE				BDL	250
270	117	I	D5-CHLORODENZENE (IS)	753	140000	50.0		
228	130		TRICHLOROETHENE			48.3	120	12
217	63		1,2-DICHLOROPROPANE				BDL	12
286	174		DIBROMOMETHANE				BDL	12
212	83		BROMODICHLOROMETHANE				BDL	12
210	63		2-CHLOROETHYL VINYL ETHER				BDL	25
218	75		CIS-1,3-DICHLOROPROPENE				BDL	12
256	43		4-METHYL-2-PENTANONE			4.2	BDL	38
225	92		TOLUENE			55.7	140	12
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	12
228	97		1,1,2-TRICHLOROETHANE				BDL	12
267	69		ETHYLMETHACRYLATE				BDL	25
224	164		TETRACHLOROETHENE				BDL	12
255	43		2-HEXANONE				BDL	38
208	129		DIBROMOCHLOROMETHANE, 124-4				BDL	12

CORRECTED/REVIEWED BY

SD Wagner
(GC/MS DATA REVIEWER)

DATE

5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
245	107	1,2-DIBROMOETHANE				BDL	12
267	112	CHLOROBENZENE			57.5	140	12
273	131	1,1,1,2-TETRACHLOROETHANE				BDL	12
219	106	ETHYLBENZENE			65.5	160	12
330	106	M,P-XYLENE			154.0	380	12
215	106	O-XYLENE			32.1	80	12
251	104	STYRENE				BDL	12
208	173	BROMOFORM				BDL	12
274	88	CIS-1,4-DICHLORO-2-BUTENE				BDL	38
275	110	1,2,3-TRICHLOROPROPANE				BDL	38
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	12
290	53	TRANS-1,4-DICHLORO-2-BUTENE				BDL	38
262	157	1,2-DIBROMO-3-CHLOROPROPANE				BDL	25
258	65 S	D4-1,2-DICHLOROETHANE WE#57			49.1	98.2	
247	95 S	BROMOFLUOROBENZENE			47.3	95.2	
238	98 S	DB-TOLUENE WE#59 SS#2			46.0	92.2	
287	106	XYLENES (TOTAL)			186.0	460	12
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	25
CHECKSUMS:							
		5631.	1379	377700.	1043.1		1857.

CORRECTED/REVIEWED BY SDWagner
(GC/MS DATA REVIEWER)DATE 5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
57	258	D4-1,2-DICHLOROETHANE WE#57	49.1	50.0	98.	76-114	X	
58	247	BROMOFLUOROBENZENE	47.3	50.0	95.	86-115	X	
59	233	D8-TOLUENE WE#59 SS#2	46.0	50.0	92.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL = 5.000 ML

2000. (UL) = 2.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9

CORRECTED/REVIEWED BY SDW/gne
(CC/MS DATA REVIEWER)
DATE 5-17-90

QUALITY ASSURANCE NOTICE

CC # 557379

BLANK ID # CB900515A19

CASE # 20124

CompuChem offers various types of analytical services, one of which is characterized as "Commercial Target Compound List (TCL)". This service exactly mimics the analytical requirements of the EPA's Contract Laboratory Program (CLP).

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The only exception to our policy is made when the volatile analysis or extraction holding times are in jeopardy of being exceeded, then the CLP requirements must be met.

Analysis of the Method Blank (and/or Instrument Blank) associated with the above sample indicated the following common laboratory solvents or phthalates were present at the indicated levels:

common laboratory artifact	blank concentration	units
<u>methylene chloride</u>	<u>3</u>	<u>µg/L</u>
_____	_____	_____
_____	_____	_____

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

This notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
Manager, Quality Assurance

(4) ~~Matrix-Spike Duplicate Data~~

- (a) Tabulated results (Form I VOA) of nonspiked TCL compounds. Form I VOA - TIC not required.
- (b) Reconstructed ion chromatogram (a) and quantitation report (a) or legible facsimile (GC/MS). Spectra not required.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73800112MSD

Lab Name: COMPUCHEM LABS Contract: 255501

Lab Code: COMPU Case No.: 20124 SAS No.: _____ SDG No.: 01

Matrix: (soil/water) WATER Lab Sample ID: 337379

Sample wt/vol: 2.0 (g/mL) ML Lab File ID: CN037379C19

Level: (low/med) LOW Date Received: 05/08/90

% Moisture: not dec. _____ Date Analyzed: 05/16/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	25	U
74-83-9	-----Bromomethane	13	U
75-01-4	-----Vinyl Chloride	25	U
75-00-3	-----Chloroethane	27	
75-09-2	-----Methylene Chloride	36	B
67-64-1	-----Acetone	25	U
75-15-0	-----Carbon Disulfide	13	U
75-35-4	-----1,1-Dichloroethene	13	U
75-34-3	-----1,1-Dichloroethane	13	U
540-59-0	-----1,2-Dichloroethene (total)	13	U
67-66-3	-----Chloroform	13	U
107-06-2	-----1,2-Dichloroethane	13	U
78-93-3	-----2-Butanone	25	U
71-55-6	-----1,1,1-Trichloroethane	13	U
56-23-5	-----Carbon Tetrachloride	13	U
108-05-4	-----Vinyl Acetate	25	U
75-27-4	-----Bromodichloromethane	13	U
78-87-5	-----1,2-Dichloropropane	13	U
10061-01-5	-----cis-1,3-Dichloropropene	13	U
79-01-6	-----Trichloroethene	13	U
124-48-1	-----Dibromochloromethane	13	U
79-00-5	-----1,1,2-Trichloroethane	13	U
71-43-2	-----Benzene	13	U
10061-02-6	-----Trans-1,3-Dichloropropene	13	U
75-25-2	-----Bromoform	25	U
108-10-1	-----4-Methyl-2-Pentanone	38	U
591-78-6	-----2-Hexanone	38	U
127-18-4	-----Tetrachloroethene	13	U
79-34-5	-----1,1,2,2-Tetrachloroethane	25	U
108-88-3	-----Toluene	13	U
108-90-7	-----Chlorobenzene	13	U
100-41-4	-----Ethylbenzene	150	
100-42-5	-----Styrene	13	U
1330-20-7	-----Total Xylenes	430	

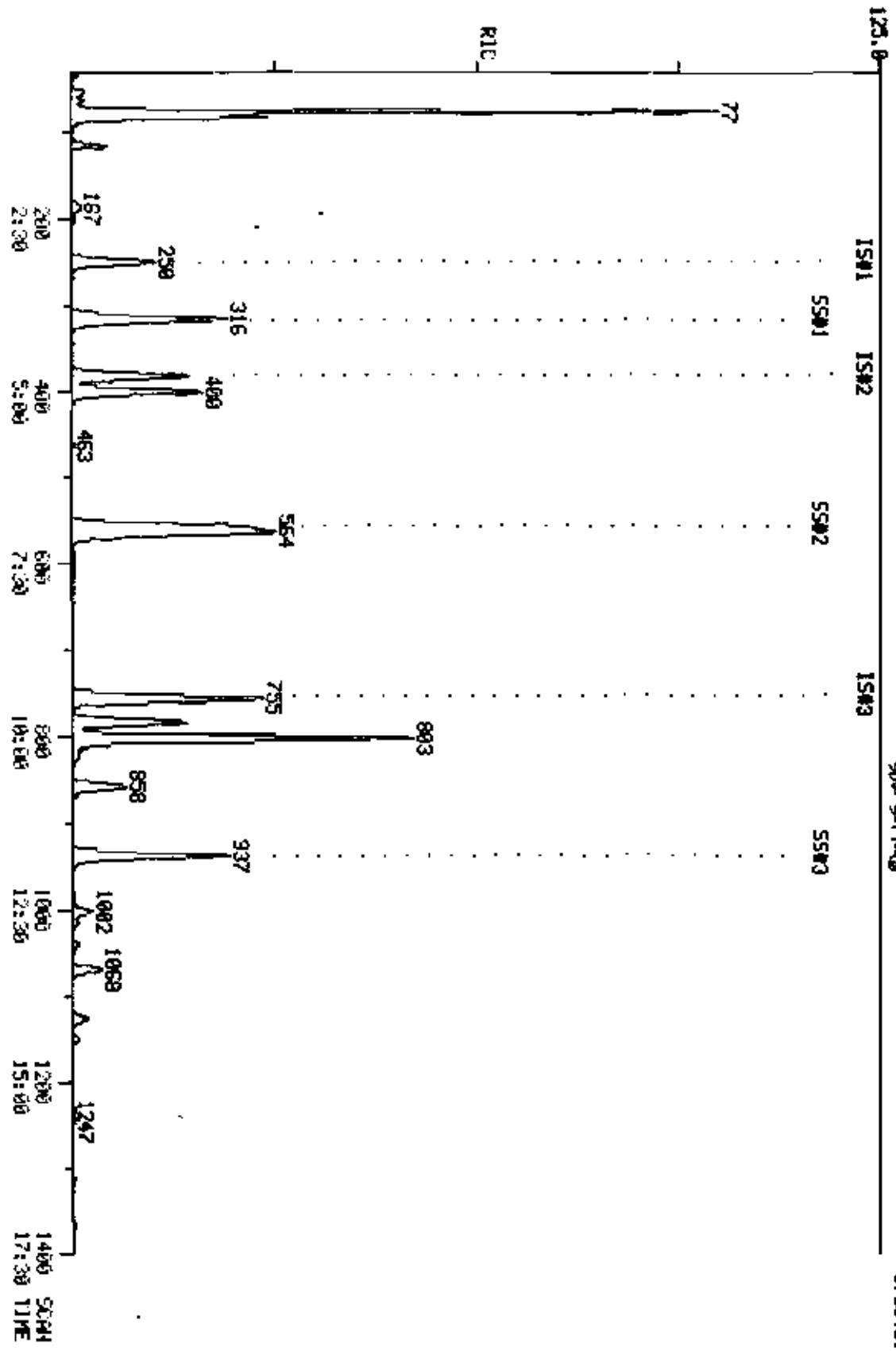
COMPUCHEN LABS

COMPUCHEN DATA C:\MSDCHEM\19\SCANS 09 TO 1409

RIC
06/16/98 21:37:00
SAMPLE1 208001L CRSE# 20124 C01 337373 EP#48 73899112 PG MSD 04 19
CONUS.1

500 5-17-98

375040.



QUANTITATION REPORT FILE: CN037379C19
DATA: CN037379C19.T1
05/16/90 2:37:00
SAMPLE: 2000UL/CASE# 20124/CC# 337379/EPA# 73800112 DNE MSD ON 19
CONDS.:
SUBMITTED BY: 19 ANALYST: 1171

FDW
5-17-90

AMOUNT=AREA * REF. AMNT/(REF. AREA) * RESP. FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-56-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	290 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 52 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 O4-1,2-DICHLOROETHANE WE#57 SS#1
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58 SS#3
 59 #233 DB-TOLUENE WE#59 SS#2

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	UNIT	STOT
1	128	249	3:07	1	1.000	A BB	30980.	50.000	UG/L	5.82
2	50	NOT FOUND								
3	62	NOT FOUND								
4	94	NOT FOUND								
5	64	52	0:39	1	0.209	A BB	9892.	10.366	UG/L	1.23 <i>yes</i>
6	101	NOT FOUND								
7	56	77	0:58	1	0.309	A BB	166.	1.721	UG/L	0.20 <i>NO</i>
8	96	83	1:02	1	0.333	A BB	69812.	41.152	UG/L	4.79 <i>yes</i>
9	76	NOT FOUND								
10	142	NOT FOUND								
11	117	NOT FOUND								
12	85	NOT FOUND								
13	43	94	1:10	1	0.378	A BV	1136.	3.319	UG/L	0.39 <i>NO</i>
14	114	381	4:46	14	1.000	A BB	206319.	50.000	UG/L	5.82
15	76	NOT FOUND								
16	84	116	1:27	1	0.466	A BB	17202.	14.515	UG/L	1.69 <i>yes</i>
17	96	NOT FOUND								
18	53	NOT FOUND								
19	63	NOT FOUND								
20	43	187	2:20	14	0.491	A BB	11554.	8.425	UG/L	0.98 <i>NO</i>
21	96	NOT FOUND								
22	72	NOT FOUND								
23	83	NOT FOUND								
24	97	NOT FOUND								
25	117	NOT FOUND								
26	78	315	3:56	14	0.827	A BB	202594.	82.889	UG/L	9.64 <i>yes</i>
27	62	NOT FOUND								
28	70	NOT FOUND								
29	117	754	9:25	29	1.000	A BB	146132.	50.000	UG/L	5.82
30	130	400	5:00	14	1.050	A BB	101036.	47.547	UG/L	5.53 <i>yes</i>
31	63	NOT FOUND								
32	174	NOT FOUND								
33	83	NOT FOUND								
34	63	NOT FOUND								
35	75	NOT FOUND								
36	43	569	7:07	29	0.755	A VV	2193.	1.811	UG/L	0.21 <i>NO</i>
37	92	866	7:04	29	0.751	A BB	169460.	58.795	UG/L	6.84 <i>yes</i>
38	75	NOT FOUND								
39	97	NOT FOUND								
40	69	NOT FOUND								
41	164	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	%TOT
42	43	NOT FOUND							
43	129	NOT FOUND							
44	107	NOT FOUND							
45	112	757	9:28	29	1.004	A BB	134823.	55.648 UG/L	6.47 <i>yes</i>
46	131	NOT FOUND							
47	106	783	9:47	29	1.038	A BV	68427.	59.927 UG/L	6.97 <i>yes</i>
48	106	803	10:02	29	1.065	A VB	231826.	142.691 UG/L	16.60 <i>yes</i>
49	106	858	10:43	29	1.138	A BV	44619.	29.309 UG/L	3.41 <i>yes</i>
50	104	NOT FOUND							
51	173	NOT FOUND							
52	88	NOT FOUND							
53	110	NOT FOUND							
54	83	NOT FOUND							
55	53	NOT FOUND							
56	157	NOT FOUND							
57	65	318	3:58	1	1.277	A BB	72988.	54.346 UG/L	6.32
58	95	937	11:43	29	1.243	A BB	84037.	48.232 UG/L	5.61
59	98	558	6:58	29	0.740	A BB	218416.	46.778 UG/L	5.67

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:07	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:27		10.000			50.00		0.400	
3	0:33		10.000			50.00		0.503	
4	0:37		10.000			50.00		0.813	
5	0:40	0.98	10.000	0.02	10.57	50.00	0.194	0.918	0.21
6	0:46		10.000			50.00		3.951	
7	1:04	0.91	90.000	0.00	1.72	500.00	0.000	0.095	0.00
8	1:03	0.99	5.000	0.07	41.15	50.00	1.049	1.664	0.82
9	1:07		5.000			50.00		4.961	
10	1:07		10.000			50.00		4.972	
11	1:06		10.000			50.00		1.658	
12	1:07		10.000			50.00		1.641	
13	1:12	0.98	10.000	0.04	3.32	50.00	0.022	0.336	0.07
14	4:43	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	1:21		15.000			50.00		0.491	
16	1:28	0.99	5.000	0.09	14.52	50.00	0.337	1.162	0.29
17	1:40		5.000			50.00		1.149	
18	1:43		120.000			500.00		0.154	
19	2:07		5.000			50.00		1.329	
20	2:20	1.00	10.000	0.05	8.43	50.00	0.056	0.332	0.17
21	2:49		5.000			50.00		1.128	
22	3:01		10.000			50.00		0.067	
23	3:21		5.000			50.00		2.050	
24	3:22		5.000			50.00		0.546	
25	3:34		5.000			50.00		0.634	
26	3:55	1.00	5.000	0.17	82.89	50.00	0.982	0.592	1.66
27	4:04		5.000			50.00		1.415	
28	4:38		100.000			500.00		0.016	
29	4:22	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	4:58	1.01	5.000	0.21	47.55	50.00	0.490	0.515	0.95
31	5:18		5.000			50.00		0.228	
32	5:29		5.000			50.00		2.312	
33	5:59		5.000			50.00		0.767	
34	6:37		10.000			50.00		0.198	
35	6:38		5.000			50.00		0.698	
36	7:04	1.01	15.000	0.05	1.81	50.00	0.015	0.414	0.04

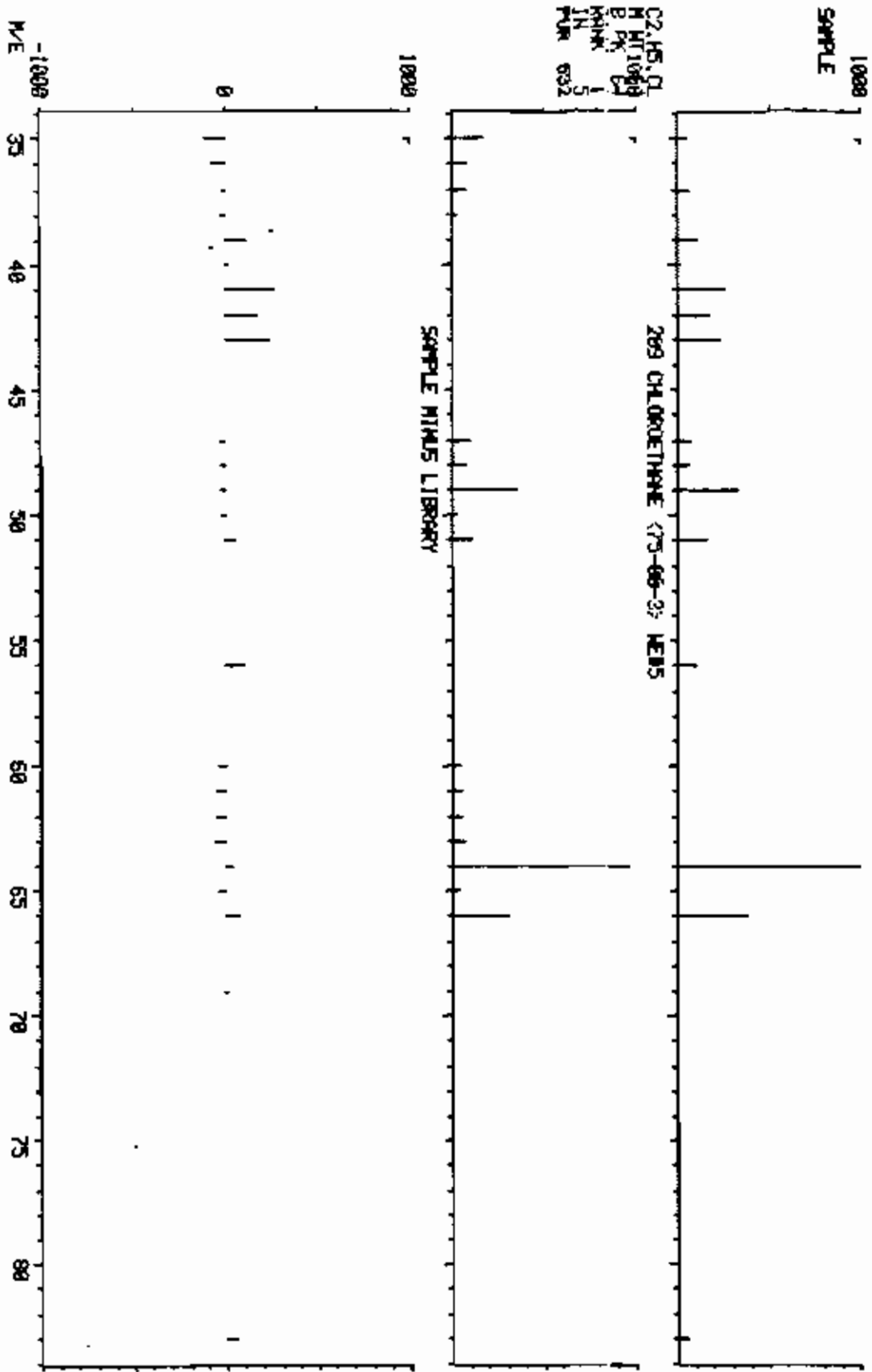
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	7:01	1.01	5.000	0.15	58.79	50.00	1.160	0.986	1.18
38	7:41		5.000			50.00		0.427	
39	7:55		5.000			50.00		0.450	
40	8:04		10.000			50.00		0.821	
41	7:51		5.000			50.00		0.814	
42	8:34		15.000			50.00		0.200	
43	8:29		5.000			50.00		0.749	
44	8:29		5.000			50.00		0.560	
45	9:25	1.01	5.000	0.20	55.65	50.00	0.923	0.829	1.11
46	9:43		5.000			50.00		0.348	
47	9:45	1.00	5.000	0.21	59.93	50.00	0.468	0.391	1.20
48	10:00	1.00	5.000	0.21	142.69	50.00	1.586	0.556	2.85
49	10:41	1.00	5.000	0.23	29.31	50.00	0.309	0.521	0.59
50	10:46		5.000			50.00		0.961	
51	11:01		5.000			50.00		0.618	
52	11:48		15.000			50.00		0.108	
53	12:12		15.000			50.00		0.195	
54	12:18		5.000			50.00		0.384	
55	12:23		15.000			50.00		0.095	
56	16:12		10.000			100.00		0.245	
57	3:57	1.01	5.000	0.26	54.35	50.00	1.432	1.317	1.09
58	11:40	1.00	5.000	0.25	48.23	50.00	0.575	0.596	0.96
59	6:55	1.01	5.000	0.15	48.78	50.00	1.495	1.532	0.98

COMPUCHEN LABS

DATA: 08037379C19 0 52

BASE M/E: 64
R/C: 2019.

LIBRARY SEARCH
08/15/98 2:27:00 + 0:30
SAMPLE: 2000LL CASE# 20124 CD# 337379 EPP# 73880112 RE MSD ON 19
ENHANCED (S 158 2H 0T)

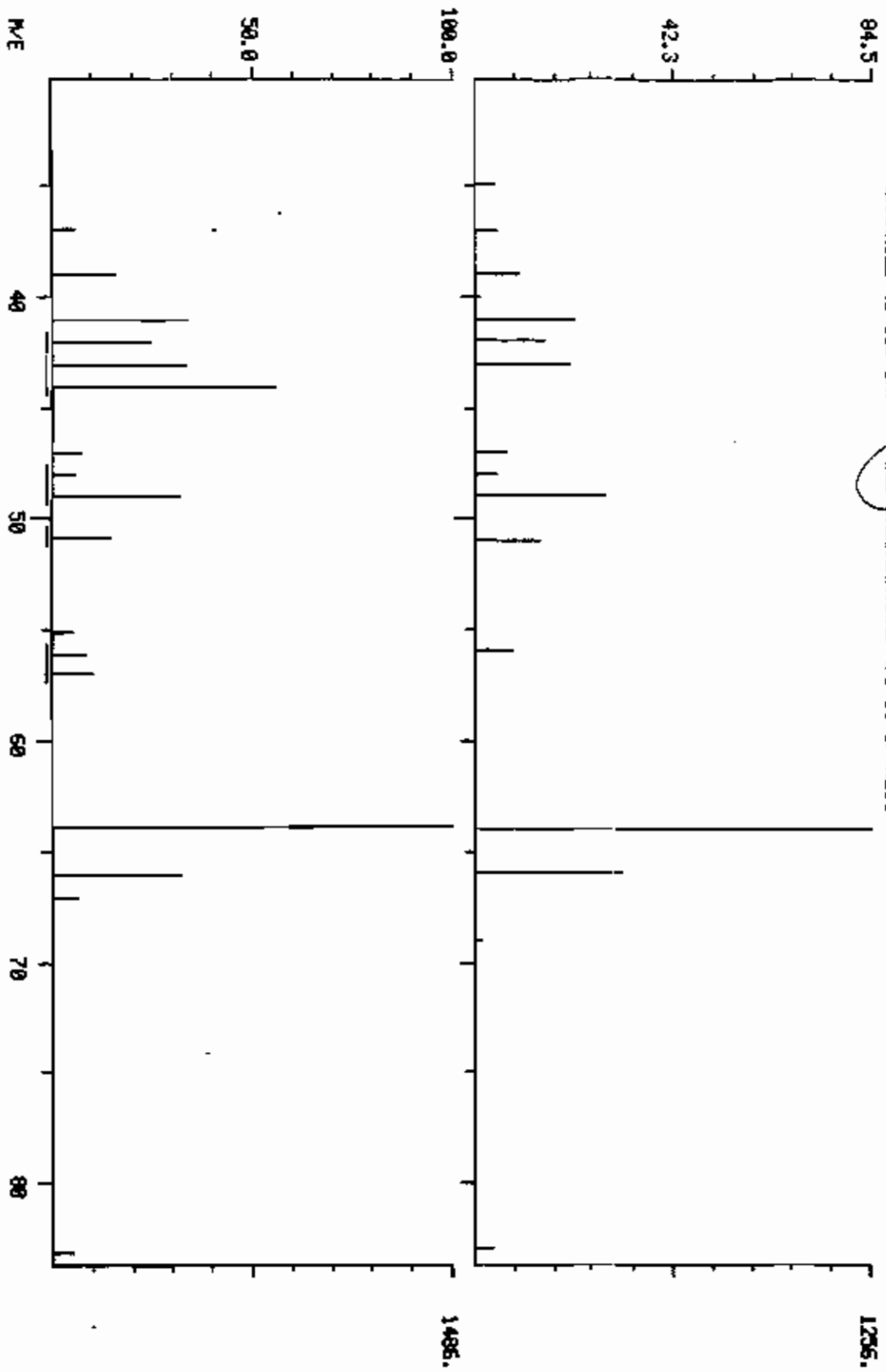


COMPOUNDEN LABS

DATA: CN037379C19 MS2

BASE M/E 64
R1C1 2019.7 5979.

DUAL MASS SPECTRUM
05/16/00 21:27:00 + 01:28
SAMPLE: 2009LL CASE# 20124 SQ# 337379 EPA# 73800112 RE MS0 ON 19
ENHANCED (5 158 21) (20) CHLOROETHANE (75-00-3) MSMS

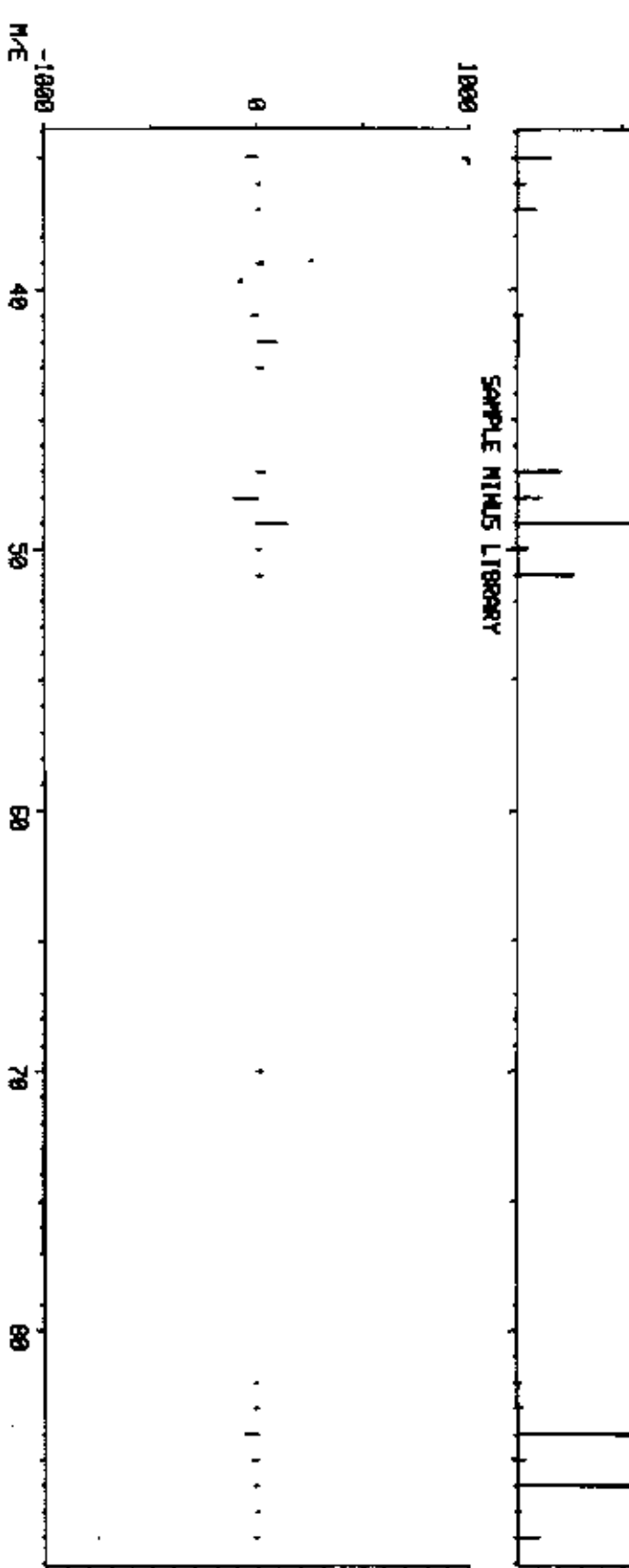
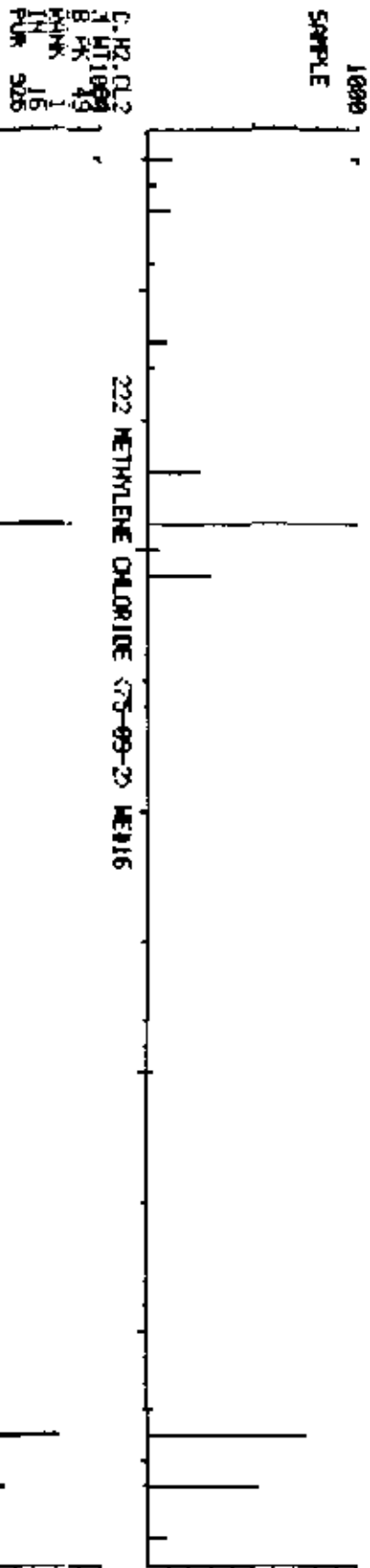


COMPUCHEN LABS

DATA: 08037379C19 # 116

BASE M/E: 49
R/C: 15157.

LIBRARY SEARCH
08/16/90 2:37:00 + 1:27
SAMPLE: 2080AL CASE# 28124 CCH 337379 EPH# 73800112 RE MSD OM 19
ENHANCED (S 158 21 07)

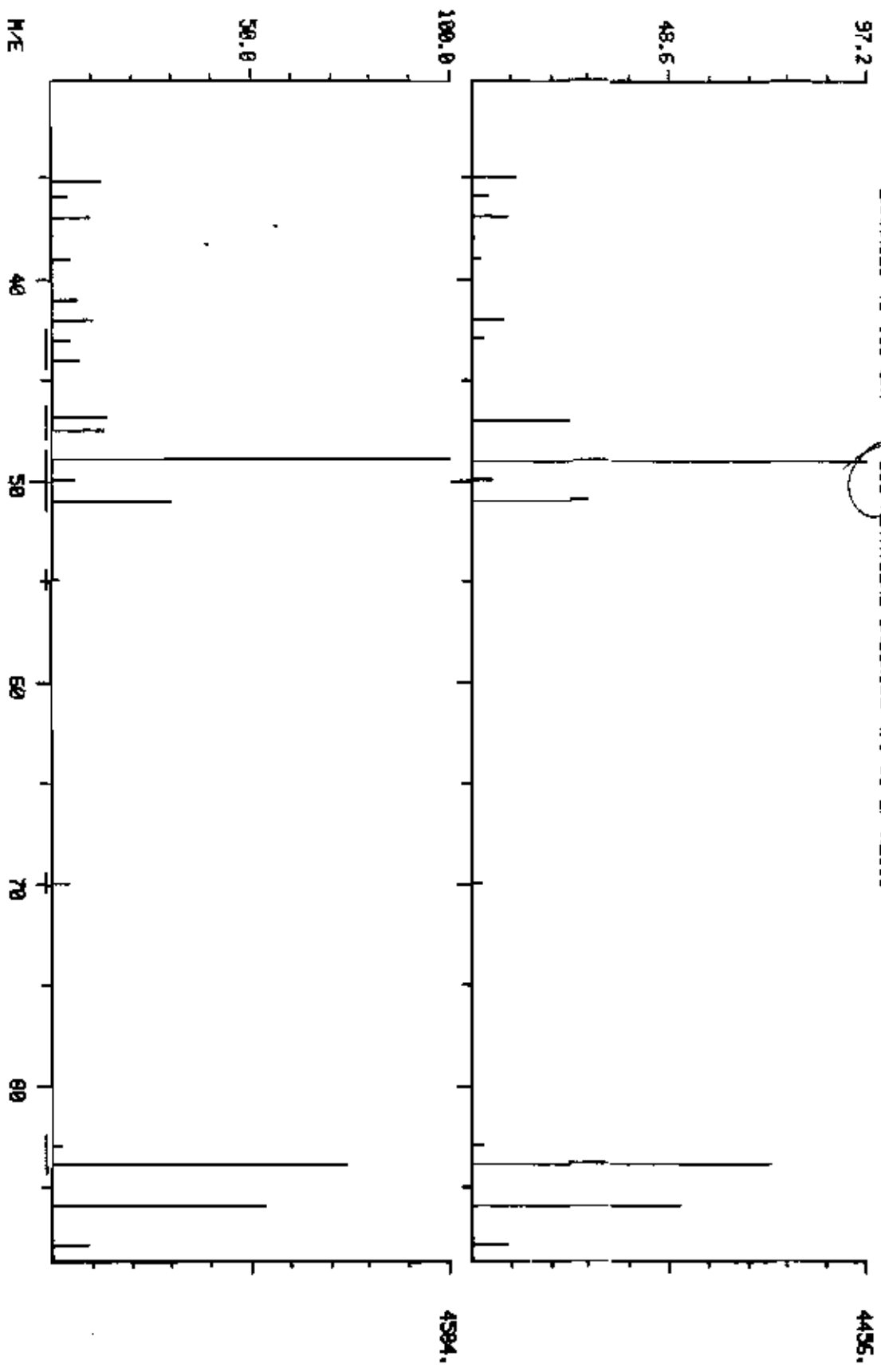


COMPUCHEM LABS

DATA# CN037379C19 #116

BRSE M/E 49 49
R/C 16199.0 16571.

DUAL MASS SPECTRUM
06/16/90 21:27:00 + 1:27
SAMPLE# 20001L CASE# 20124 DC# 337379 EPA# 73900112 RE MSD ON 19
ENHANCED (5 156 2H) 222 METHYLENE CHLORIDE (75-03-2) M#16

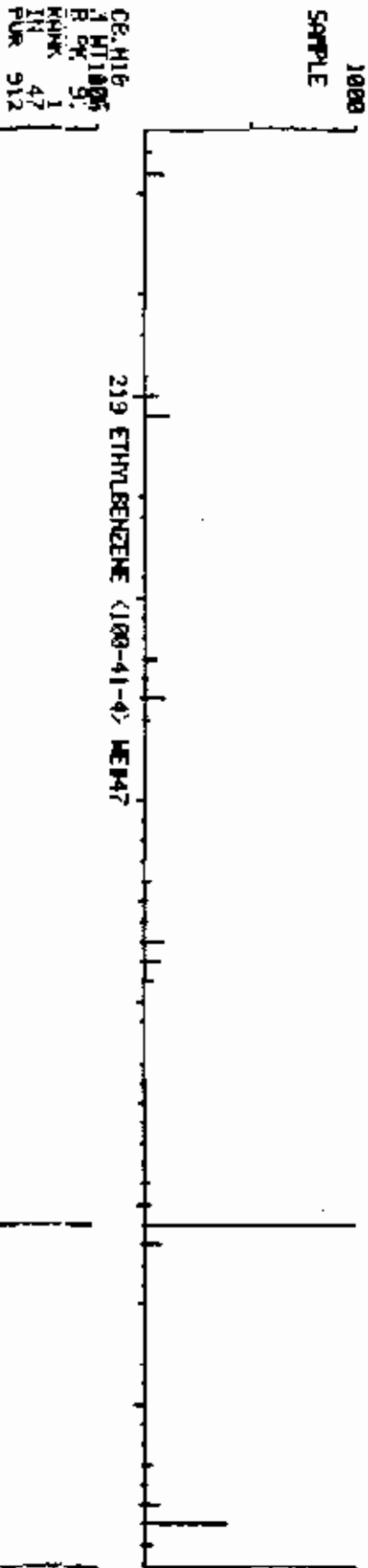


COMPUCHEM LABS

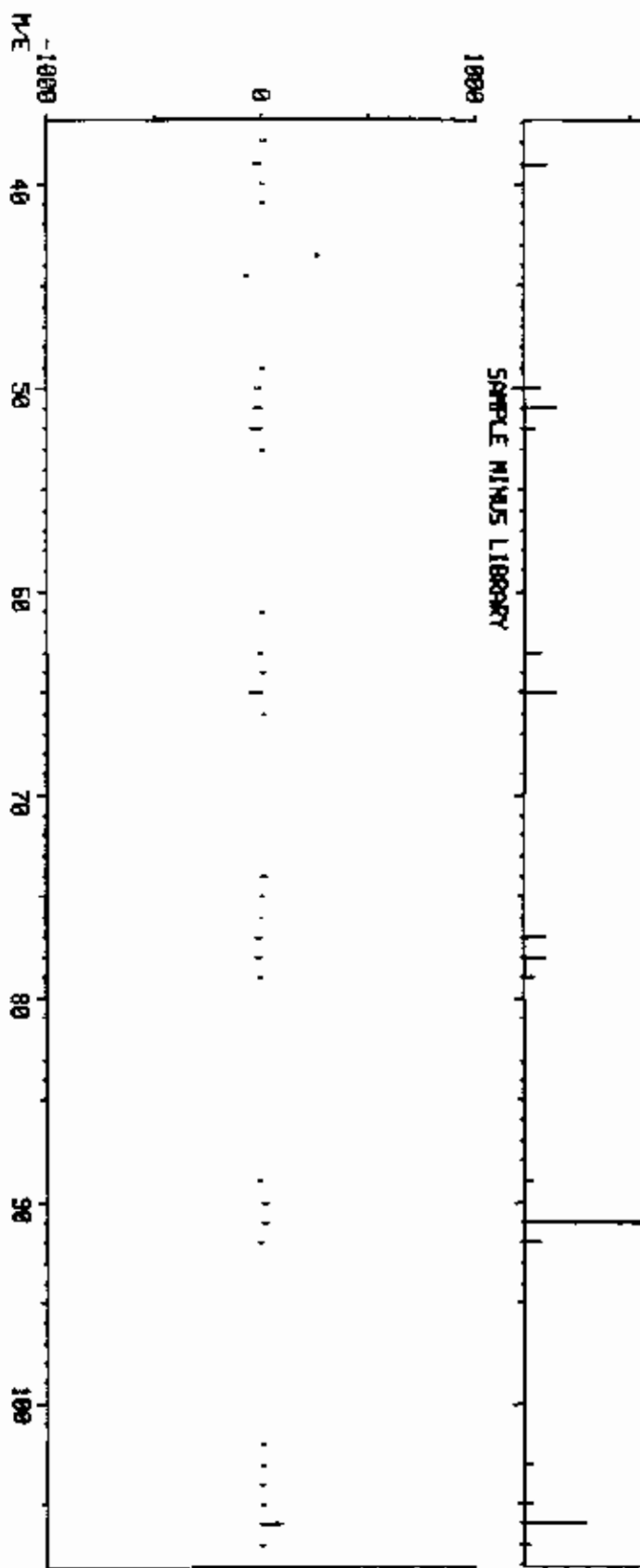
DATA: CN837379C19 # 783

BASE M/E: 91
R1C: 42486.

LIBRARY SEARCH
08/11/88 2:57:00 + 9:47
SAMPLE: 2086UL CASE# 20124 C0# 307379 EPA# 73890112 RE MSD ON 19
ENHANCED (5 158 21 01)



CE: M16
I M1005
R 97 9
KANK 47
M 1
PUR 912

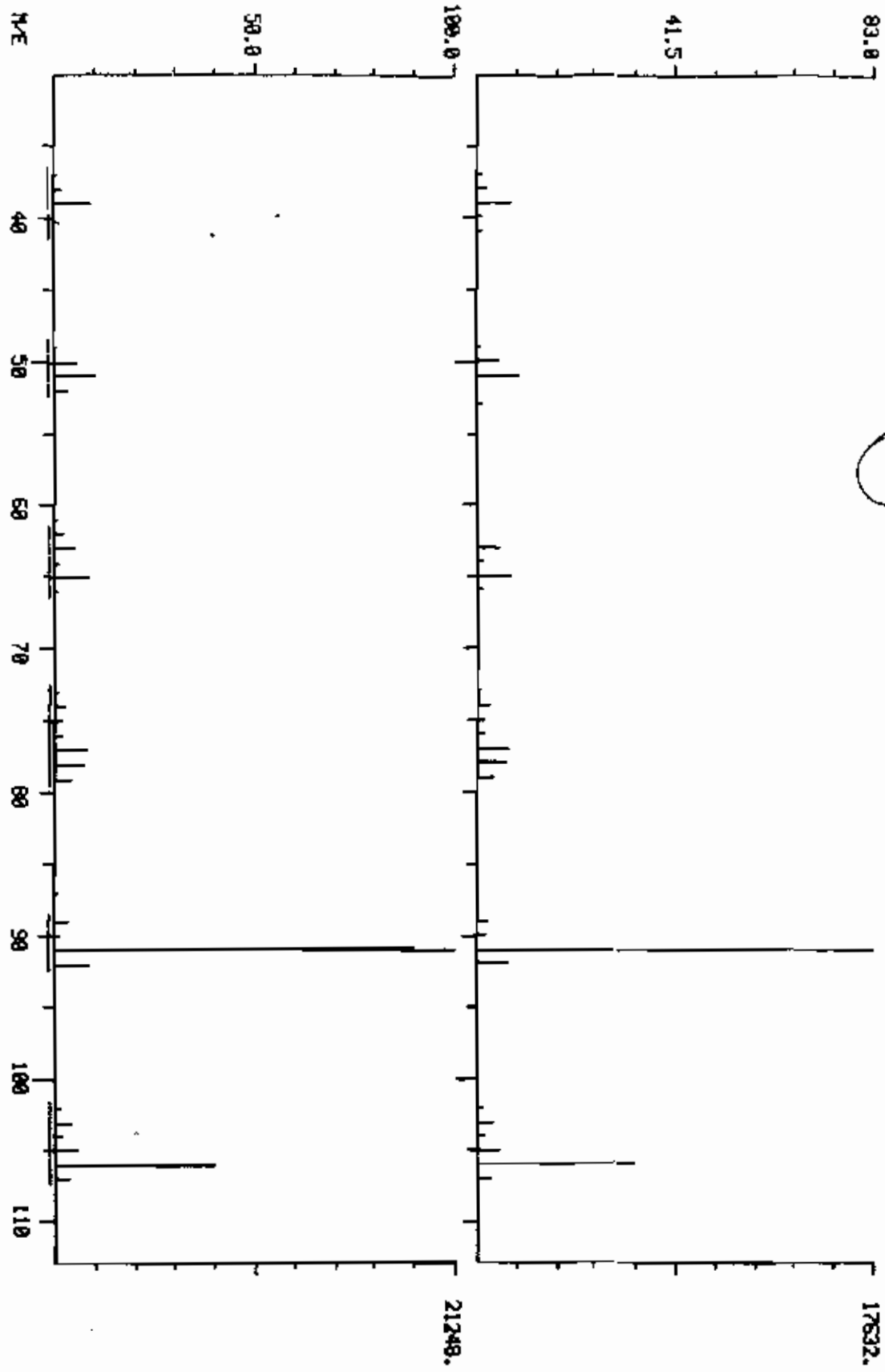


COMPOUNEN LABS

DUAL MASS SPECTRUM
AS/15/90 2127.00 + 9447
SAMPLE 2000L CASE# 20124 EQ# 337379 EPP# 73000112 RE MSO OM 19
ENRAGED (5 150 20) 219 ETHILSEIZENE (100-41-4) LE#47

DATA: CN037379C19 #793

BASE M/E: 91 / 91
R/C: 42970. / 82207.



COMPUchem LABS

DATA: CN837379C19 # 883

BASE M/E: 91
RICH: J20119.

LIBRARY SEARCH
08/16/90 21:27:00 + 10:02
SAMPLE: 28804L CASE# 20124 CC# 337379 EPA# 73880112 RE MSD ON 19
ENHANCED (5 158 21 81)

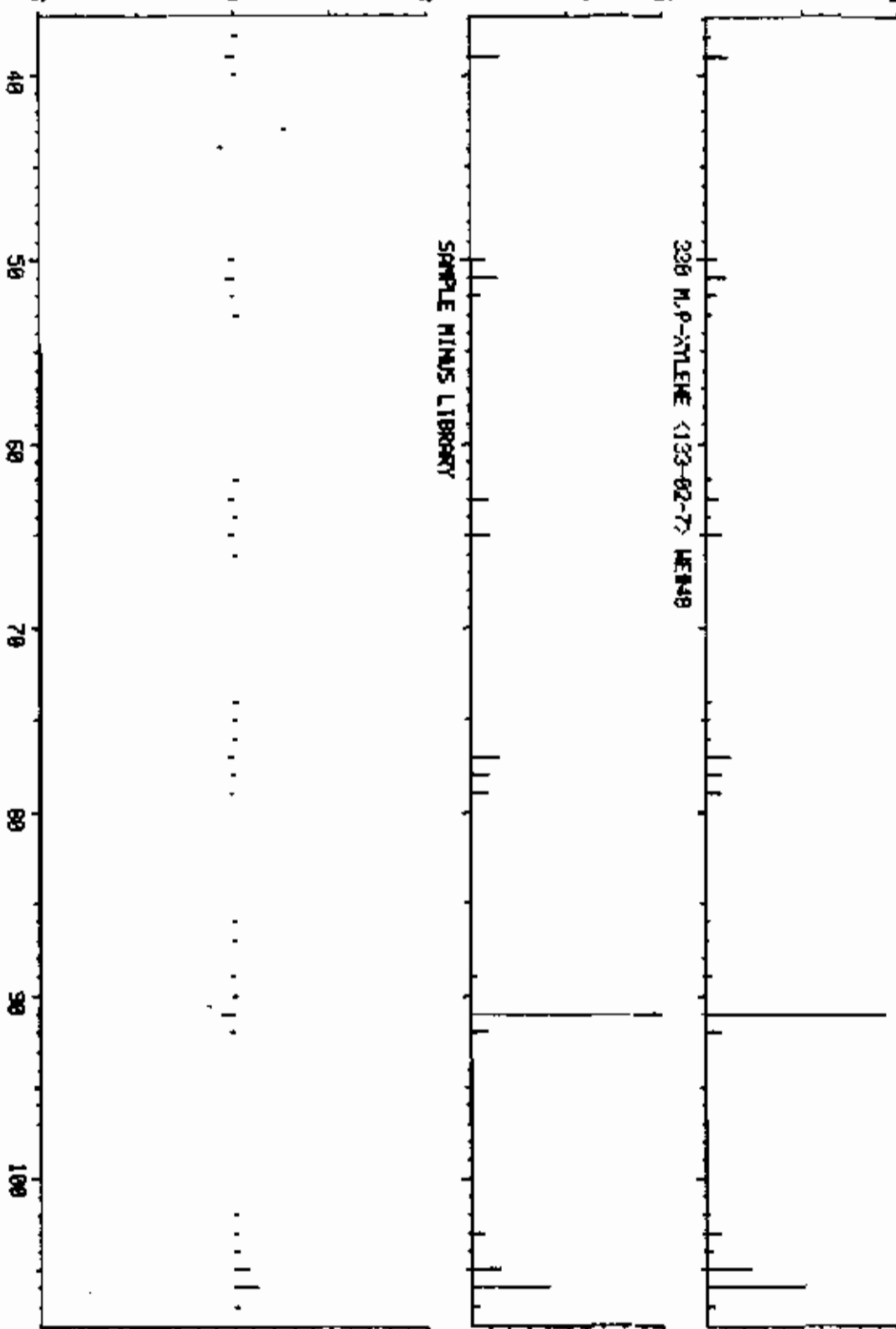
1863
SAMPLE

CS.H16
* HT1065
P PK 5
MGRK 1
IN 48
PUN 528

1863

326 M,P-ATLENE <133-82-7> REF#48
SAMPLE MINUS LIBRARY

-1863
M/E

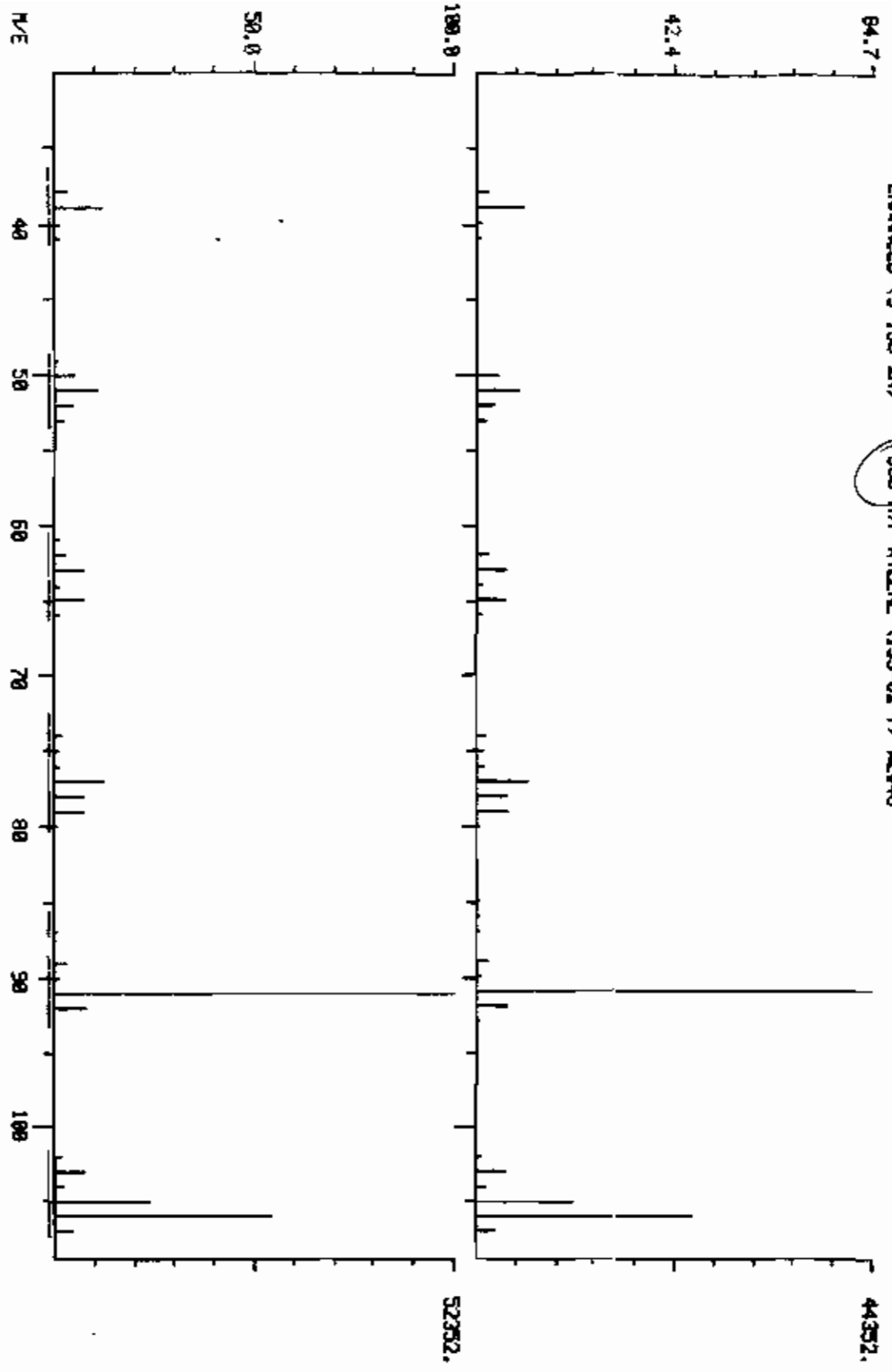


COMPUchem LABS

DUAL MASS SPECTRUM
05/16/98 2:37:00 + 10.02
SAMPLE: 2000UL CASE# 20124 CCR# 337379 EPA# 73800112 RE MSD ON 19
EMULSIFIED (5 15S 2H) 330 M,P-XYLENE (133-02-7) WER48

DATA: CH037379C19 0803

BASE P/E: 91 / 91
R1C: 124685. / 157598.

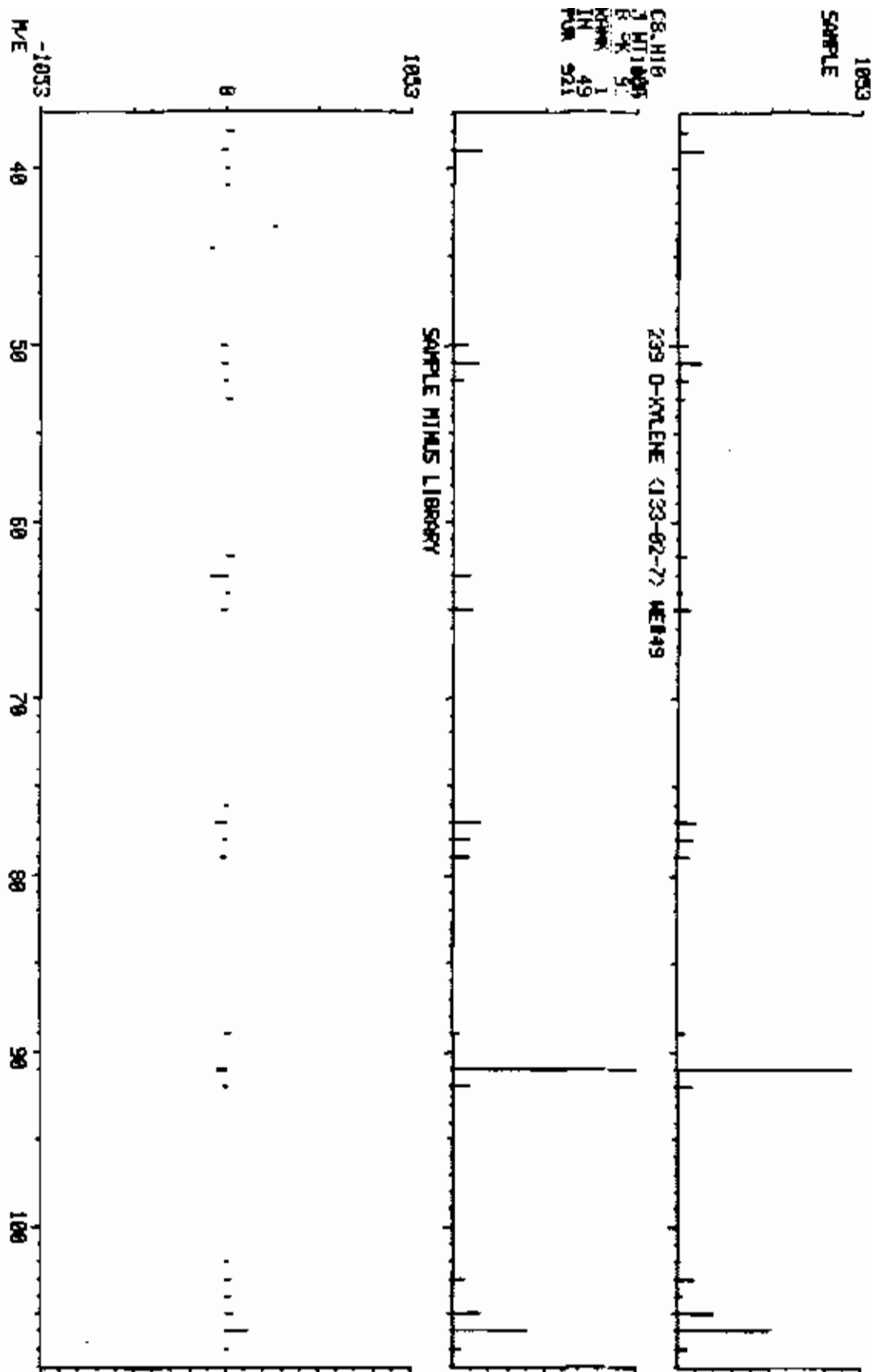


LIBRARY SEARCH
05/16/90 2:27:00 + 10:43
SAMPLE: 2000L CASE# 20124 CO# 037379 EPA# 73800112 RE MS0 ON 19
ENHANCED (5 128 24 01)

COMPUCHEM LIBS

DATA: 0307379C19 # 858

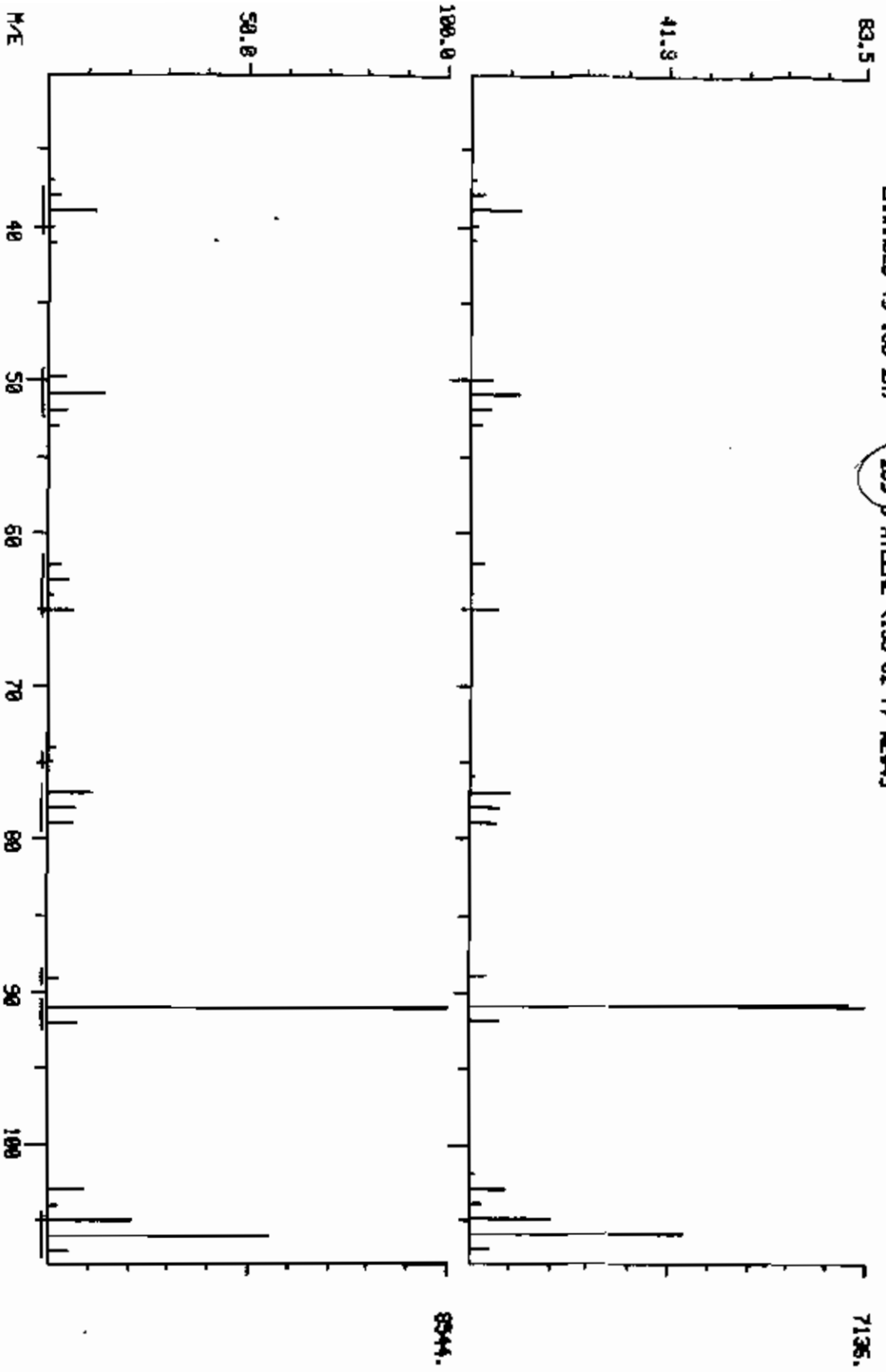
BASE M/E: 91
RTO: 20255.



08.H16
J.H1605
R 9K 5
M 49
IN 1
PUN 921

COMPUCHEM LIBS

DUAL MASS SPECTRUM
06/11/90 21:27:00 + 10:42
SAMPLE: 2000UL CASE# 20124 DC# 337379 EPA# 73800112 RE MSD ON 19
ENHANCED (5 158 24) 239 D-XYLENE (133-92-7) MS#49
DATA: CN037379C19 0858 BASE M/E: 91/ 91
R/C: 28251.7 24709.



Lab Instructions:

Receipt Date: Case#: 20124 SAS/
CompuChem#: 337379

TCL 3rd Ed 8240
GC/MS; VOA; WATER; EPA SOW 3/88

Sample Prep Code---000
Instrument Code----412299
Compound List-----493459
Surrogate Std-----394
Internal Std-----036

SDG# EPA ID# 79 B00 112 DE KS

GC/MS Analysis WELL1

EDU 6-4-90

Amount Purged: [] 5.0 mL or [] Dilution 7000 uL / 5.0 mL

Internal Standard Volume Added 5 uL

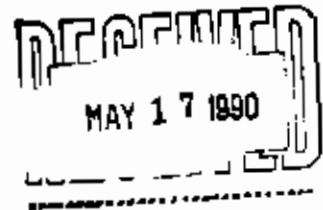
Surrogate Standard Volume Added 5 uL

BFB Filename: BE900515A19

Blank Filename: CD900515B19

Standard Filename: CT900515R19

Sample Filename: CW037379C19



Analyst(s) Injection: 1171A Work-up 1171A

GC/MS Review

Condition Codes

DA

Entry Codes: OK, EA, ES, SM, JS, SL, SH, JA, DA

Non-entry Codes: IM, IL, SW, CT, CS, VC, VO, UP, PC, NR, IF, LA, DI, OT, SP, SI, CO, RN, DW

Extraneous Peak Search Results:

Number of Peaks Found: 4



Disposition

[x] Complete

[] Reinject Nest

[] Dilute

Quality Assurance Notice(s):

Number of Notices Required: 1

Comments: SS/337237

uL / 5 mL

GC/MS Review Date 5/17/90 Auditor Date / /

Report Integration Total # of Injections 1

Final Reportable Package(s): CW - C19 /

QA Comments:

Initials Date / /

Final Review

Initials Date / /

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

COMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (16)	249	51000	50.0		
221	50	CHLOROMETHANE				BDL	25
231	62	VINYL CHLORIDE				BDL	25
220	94	BROMOMETHANE				BDL	25
209	64	CHLOROETHANE			10.6	26	25
230	101	TRICHLOROFLUOROMETHANE				BDL	25
201	56	ACROLEIN			1-7	BDL 40	220
216	96	1,1-DICHLOROETHENE			41.2	100	12
254	76	CARBON DISULFIDE				BDL	12
285	142	IODOMETHANE				BDL	25
297	117	1,1,1-TRICHLORO-2,2,2-TRIFL				BDL	25
266	85	1,1,2-TRICHLORO-1,2,2-TRIFL				BDL	25
252	43	ACETONE (2-PROPANONE)			3-3	BDL 50	25
248	114 I	1,4-DIFLUOROBENZENE (18)	381	206000	50.0		
298	76	3-CHLOROPROPENE				BDL	38
222	84	METHYLENE CHLORIDE			14.5	36 B	12
226	96	TRANS-1,2-DICHLOROETHENE				BDL	12
202	53	ACRYLONITRILE				BDL	300
214	63	1,1-DICHLOROETHANE				BDL	12
257	43	VINYL ACETATE			8.4	21J	25
237	96	CIS-1,2-DICHLOROETHENE				BDL	12
253	72	2-BUTANONE				BDL	25
211	83	CHLOROFORM				BDL	12
227	97	1,1,1-TRICHLOROETHANE				BDL	12
206	117	CARBON TETRACHLORIDE				BDL	12
203	78	BENZENE			82.9	210	12
215	62	1,2-DICHLOROETHANE				BDL	12
272	70	CROTONALDEHYDE				BDL	250
270	117 I	D5-CHLOROENZENE (15)	734	146000	50.0		
229	130	TRICHLOROETHENE			47.5	120	12
217	63	1,2-DICHLOROPROPANE				BDL	12
286	174	DIBROMOMETHANE				BDL	12
212	83	BROMODICHLOROMETHANE				BDL	12
210	63	2-CHLOROETHYL VINYL ETHER				BDL	25
218	79	CIS-1,3-DICHLOROPROPENE				BDL	12
256	43	4-METHYL-2-PENTANONE			1-8	BDL 40	38
225	92	TOLUENE			38.8	150	12
250	79	TRANS-1,3-DICHLOROPROPENE				BDL	12
228	97	1,1,2-TRICHLOROETHANE				BDL	12
287	69	ETHYL METHACRYLATE				BDL	25
224	164	TETRACHLOROETHENE				BDL	12
255	43	2-HEXANONE				BDL	38
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	12

CORRECTED/REVIEWED BY

SDW29ne
(OC/MS DATA REVIEWER)

DATE

5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
245	107	1,2-DIBROMOETHANE				BDL	12
207	112	CHLOROBENZENE			59.6	140	12
273	131	1,1,1,2-TETRACHLOROETHANE				BDL	12
219	106	ETHYLBENZENE			59.9	150	12
330	106	M,P-XYLENE			143.0	360	12
239	106	O-XYLENE			29.3	73	12
251	104	STYRENE				BDL	12
205	173	BROMOFORM				BDL	12
274	88	CIS-1,4-DICHLORO-2-BUTENE				BDL	38
275	110	1,2,3-TRICHLOROPROPANE				BDL	38
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	12
290	53	TRANS-1,4-DICHLORO-2-BUTENE				BDL	38
262	157	1,2-DIBROMO-3-CHLOROPROPANE				BDL	25
258	65 B	D4-1,2-DICHLOROETHANE WE#57			54.3	109. %	
247	95 B	BROMOFLUOROBENZENE			48.2	96. %	
233	98 S	DB-TOLUENE WE#59 SS#2			48.8	98. %	
289	106	XYLENES (TOTAL)			172.0	430	12
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	25
CHECKSUMS:							
		5631.	1384	403000.	1031.8	1832.	

CORRECTED/REVIEWED BY SDU Hanes
(GC/MS DATA REVIEWER)DATE 5-17-90

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
57	258	D4-1,2-DICHLOROETHANE WE#57	54.3	50.0	109.	76-114	X	
58	247	BROMOFLUOROBENZENE	48.2	50.0	96.	86-115	X	
59	233	D8-TOLUENE WE#59 SS#2	48.8	50.0	98.	88-110	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

3000 UL

5.000 ML

= 2.50 =

2000. (UL)

2.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.

SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION 9CORRECTED/REVIEWED BY SDW/ones
(OC/MS DATA REVIEWER)DATE 5-17-90

QUALITY ASSURANCE NOTICE

CC # 337379

BLANK ID # CE92061684

CASE # 20124

CompuChem offers various types of analytical services, one of which is characterized as "Commercial Target Compound List (TCL)". This service exactly mimics the analytical requirements of the EPA's Contract Laboratory Program (CLP).

The CLP protocols allow certain levels of common laboratory solvents (acetone, methylene chloride, and toluene) and phthalates to be present in blanks, up to five times the Contract Required Detection Limit (CRDL). CompuChem has a more stringent policy for liquid samples, which allows up to a maximum of twice the CRDL for the common solvents and phthalates. The only exception to our policy is made when the volatile analysis or extraction holding lines are in jeopardy of being exceeded, then the CLP requirements must be met.

Analysis of the Method Blank (and /or Instrument Blank) associated with the above sample indicated the following common laboratory solvents or phthalates were present at the indicated levels:

common laboratory artifact	blank concentration	units
<u>methylene chloride</u>	<u>3</u>	<u>ug/l</u>
_____	_____	_____
_____	_____	_____

The reporting convention used in the CLP is to "flag" with a "B" all allowable analytes present in the sample and its associated Method Blank (and/or Instrument Blank). No adjustments are made to the analytical results.

This notice serves to explain the use of the "B" flag in reporting analytical results, while presenting the actual levels of the common laboratory solvents or phthalates seen in the associated blank.

Data Interpretation: General EPA Guidelines

In evaluating data usability, the EPA uses certain general guidelines for assessing the presence of common laboratory artifacts in samples. If the concentration of an artifact is greater than ten times that in the blank, the blank contribution is considered negligible. If blank and sample concentrations are comparable (sample level not greater than twice the blank level), the presence of that compound in the sample is considered suspect.

Robert J. Whitehead
 Manager, Quality Assurance