I. NARRATIVE

CASE NO. Gen Test May 1985 Water
Sites 1, 2, 3, 4 Trip Blanks

A. Cover Letter and Sample Index
B. Case Problems
C. Quality Control Notices
D. Decision Tree Process

A. Cover Letter and Sample Index

B. Case Problems

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable

CASE SUMMARY NARRATIVE -- GENERAL TESTING
(4 LIQUID SAMPLES)

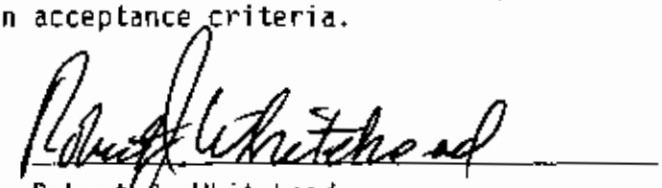
Included in this Narrative are the Quality Assurance Notices pertinent to the samples of this case. All Notices concerned the qualifying of non-HSL compounds which were detected in the samples as well as the associated Quality Control blanks. Refer to these Notices for details. The semivolatile compound tentatively identified as 1-hexadecyne or 1,12-tridecadiene was present in all semivolatile sample and blank fractions, and has been classified as a laboratory artifact. A significant number of tests have already been performed in order to isolate the source of the artifact, which is not consistently seen in all samples.

Low levels of methylene chloride were detected in all volatile fractions, including the trip blanks and the associated instrument blanks. Comparable levels of acetone were also seen in all volatile fractions except #11446 (trip blank) and #50705A. These compounds have been flagged on the Organic Analysis Data Sheets with the B footnote as prescribed by the EPA (acetone was found in only one of the three instrument blanks associated with this case--these blanks are used to qualify the sample data).

No tentatively identified non-HSL compounds were detected in any of the volatile fractions (including the trip and holding blanks), and aside from the acetone and methylene chloride, only sample #50705A contained priority pollutants of interest. The compounds detected were 1,2-dichloroethane and the xylene isomers (quantitated as "total xylenes"). The xylenes were detected at concentrations below the detection limits, and are therefore qualified with the J footnote. Total xylenes were not detected at reportable levels in the Quality Control matrix spike or matrix spike duplicate prepared from #50705A, though 1,2-dichloroethane was detected at comparable levels.

Aside from the artifact mentioned above, two tentatively identified non-HSL compounds were detected in the semivolatile fractions of #50705C and #50705A. No priority pollutants were detected in any of the semivolatile fractions.

Surrogate recoveries were within control limits for all fractions of this case, and all spike compound recoveries (except 4-nitrophenol--see comment in Q.C. Summary section, Form III) and relative percent differences (RPDs) were within acceptance criteria.



Robert D. Whitehead
Senior Quality Assurance Specialist
5-31-85

C. Quality Control Notices

The following notices are included to explain circumstances affecting the analytical results for samples associated with this case. The logic applicable is discussed in I-D, Decision Tree Process.

This information is being provided so the reviewer and user of data can make more informed judgments concerning its quality. If there are any further analyses or interpretation required, as may be noted in the Case Narrative Cover Letter, I-A, this data will be sent when completed and approved.

QUALITY ASSURANCE NOTICE
sample # 0713
fraction V

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 919 _____ _____ _____ _____ _____

QAN10S
850218

QUALITY ASSURANCE NOTICE
sample # 4582
fraction V

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 533

QANIOS
850218

QUALITY ASSURANCE NOTICE
sample # [illegible]
fraction [illegible]

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: [illegible] _____ _____ _____ _____ _____

QAN105
850218

QUALITY ASSURANCE NOTICE
sample # 41343
fraction B/N

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 990 _____ _____ _____ _____ _____

QAN10S
850218

QUALITY ASSURANCE NOTICE
sample # 4751
fraction SV

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 971

SV
1/1

QAN10S
B50218

QUALITY ASSURANCE NOTICE
sample # 45106
fraction SV

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 955

SC
Phyl

QAN105
850218

QUALITY ASSURANCE NOTICE
sample # 4480r
fraction SL

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Seerch routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 91r

JK
5/24/85

QAN10S
850218

QUALITY ASSURANCE NOTICE: CLARIFICATIONS OF DELIVERABLE ITEMS, PER CONTRACT, EXHIBIT B

The following items were discussed with Dr. Fred Haeberer, USEPA Project Officer, on November 20, 1984, concerning deliverable items from Exhibit B of the recently-modified contract for organics analysis:

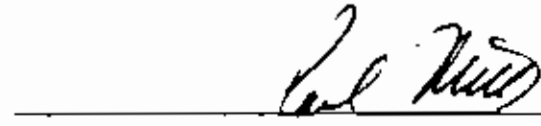
1) There is an apparent intention to supply empty "Form I" pages (individual fractions of the Organic Analysis Data Sheets) even if fractions are not analyzed. For example, a "volatiles only" case may require blank forms for semivolatile and pesticide fractions of each sample and spike. This would accummulate many extra pages without adding information.

   Dr. Haeberer said to submit only those DADS and TIC forms necessary, no extra pages for fractions not done, and reference his statement in the case summary. Therefore, when fractions are not analyzed for samples, blanks, or spiked samples, the forms will not be included either.

2) An interpretation of the standards deliverable could mean "all standards" include the RIC and autoquantitation report from each of the five levels of the initial calibration curves on each instrument each time such a calibration is performed for samples associated with the particular case. This would generate a great deal of paper, without necessarily providing information greater than that of the Form VI, initial calibration forms, showing Rf at various levels, average Rf, and %RSD, and whether the SPCC criteria were met.

   Dr. Haeberer said to submit only the Form VI for initial calibrations, since in two places in Exhibit B it is specificly called for, but RIC and autoquantitation report is not.

3) Computers at CompuChem have been set up to produce the identical EPA form and format for the Organic Analysis Data Sheets (Form I), printing the analytical results and detection limits automatically corrected for factors such as dilutions, dry weights, etc. However, the requested number of significant figures (2), cannot always be met by the computer for each sample or fraction. Dr. Haeberer stated that the computer output which provided the corrected results and detection limits for each compound would be acceptable, and that 3 significant figures would be acceptable in general.



Paul Mills, EPA Project Scientist, November 20, 1984

SEMIVOLATILE CALCULATIONS FOR HSL COMPOUNDS AND SURROGATES

SOIL CALCULATIONS:

FINAL VOLUME	SPLIT PEST : SV	CALCULATION:
1.0	2 : 8	$\frac{1.0 \times \text{DRY WT FACTOR} \times 30.0 \times 33.3}{(295/300)\ (8/10) \times \text{ACTUAL SAMPLE WT}}$
0.8	2 : 8	$\frac{0.8 \times \text{DRY WT FACTOR} \times 30.0 \times 33.3}{(295/300)\ (8/10) \times \text{ACTUAL SAMPLE WT}}$
0.6	4 : 6	$\frac{0.6 \times \text{DRY WT FACTOR} \times 30.0 \times 33.3}{(295/300)\ (8/10) \times \text{ACTUAL SAMPLE WT}}$

AFTER 11/20/84 ALL SAMPLE HAVE BEEN PROCESSED USING THE 0.6 ML FINAL VOLUME AND THE 4:6 ML EXTRACT SPLIT FOR PESTICIDES AND SEMIVOLATILES.

REFERENCE SAMPLE PACKAGE FOR THE EXTRACTION WORKSHEET FOR -717 PREP CODE AND CLIST (COMPUTER GENERATED HSL LISTING WHICH INCLUDES CALCULATION FORMULA) AS NOTED IN INDEX.

WATER CALCULATIONS:

THE ONLY ERROR IN THE WATER CALCULATIONS HAS BEEN THE ABSENCE OF THE SPLIT FACTOR IN THE SURROGATE CALCULATION. THE QUANT REPORT AMOUNT ADDED FOR THE SURROGATES IS HALF ACTUAL AMOUNT ADDED BECAUSE THE ACID AND BASE-NEUTRAL EXTRACTS ARE COMBINED JUST PRIOR TO ANALYSIS. THE CLIST SOFTWARE WAS CORRECTED DURING THE SECOND WEEK OF DECEMBER.

THE WATER SAMPLE SPIKES ARE BEING PERPARED USING 500 ML OF SAMPLE RATHER THAN 1000 ML DUE TO LIMITED SAMPLE VOLUMES. THE SURROGATE AND SPIKE STANDARDS ARE BEING DILUTED 1:1 AND THE NORMAL VOLUME HAS BEEN ADDED. THE EXTRACTS FOR THESE SAMPLE SPIKES ARE BEING CONCENTRATED TO HALF THE NORMAL VOLUME SO ALL OF THE ACTUAL CONCENTRATIONS REMAIN CONSISTANT WITH THE ACTUAL SAMPLES.

REFERENCE SAMPLE PACKAGE FOR THE CLIST FORM (COMPUTER GENERATED HSL LISTING WHICH ALSO INCLUDES THE CALCULATION FACTOR) AS NOTED IN THE INDEX.

DETECTION LIMIT CALCULATION CLARIFICATION (FOR INCLUSION IN ALL EPA CASE REPORTS)

To protect our GC columns from unnecessary contamination samples prepared according to Caucus protocol method are routinely diluted 5:1. Through a series of experiments we have determined that our instrument detection level for pesticides is 5x lower than the EPA required reporting level. We, therefore, only adjust our detection limits if the dilution necessary to analyze the sample is greater than 5:1. If the sample is diluted by a factor of X the detection limit is adjusted by $\frac{X}{5}$ instead of X.

Jill B. Henes, Manager of GC Laboratory

Bob Meierer, Director of Quality Assurance

D. Decision Tree Process

Listed herein are standardized descriptions covering the logic and decision criteria applied to the analysis of samples in this case. The logic is drawn from the contract's criteria for actions to be taken if surrogates or spike recoveries or duplicate spike precision are outside acceptance criteria. Where the contract does not specify action, CompuChem procedures are described, with the associated criteria applied. A summary of data qualifiers and footnotes, and file-naming conventions, is provided.

CONDITION CODES SOP--revised 3-28-85

CompuChem Laboratories uses the following Condition Codes to signify either the cause of a sample fraction failure or the final status of a sample before release. The "Comments" here describe the consequences of a condition code, the type of analysis for which the code applies, and/or special instructions for using the code. These codes are entered in the CLMS system under the COND column of the Sample Detail database, and govern the release of samples to the client.

This code list is divided into three main sections. The first group of codes represent "Failure" codes, and apply to all samples which must be repeated because all criteria have not been met. These codes will appear in the prior (P) slots of the Sample Detail. The next group are "Final" codes used for production samples which have met criteria and may be released as is or with a standard QA Notice supplied to each of the individual lab stations. The last group are "Final" codes for QC samples; part A consists of codes also used for production samples, while part B is a list of codes which apply only to QC samples. This list covers QC data which does not meet all QC criteria, but is "salvageable" by QA if the associated samples are not effected.* Codes from groups II and III will appear only in the final (F) slots of the Sample Detail.

At the end of this SOP is an Appendix which chronicles changes to the list It is critical that only the most recently revised list be used in each department. This section also serves to clarify misinterpretations or misuses of the codes, and further explain applications of various codes. The individual laboratory stations are responsible for assigning codes to each paperwork issued, even if no injection is made. Every scheduling detail must have a condition code assigned. Any questions concerning condition codes should be addressed to Bob Whitehead. These codes are monitored periodically to insure correct application and pinpoint trends for feedback to management. This SOP must be read and signed by all those responsible for assigning or altering condition codes.

CODE	EXPLANATION/COMMENTS
I. FAILURE CODES FOR ALL PRODUCTION AND QUALITY CONTROL SAMPLES:	
AH =Acid surrogates High	Verify vial volumn and I.S. areas
AL =Acid surrogates Low	Use only when not chromatography related (PC)
BB =Bad associated Blank	Use for samples NOT analyzed due to bad blank--see Appendix
BF =Blank requires Florisil cleanup	When associated pests florisilled
BH =Base/neutral surrs High	See AH code
BL =Base/neutral surrs Low	See AL code
BU =Back-Up extract; screened Medium	Extracted Low Level, but not run
CA =CAncelled	All samples (incl. QCs) cancelled and never analyzed (fill out form)
CL =needs secondary CLeanup	TCDDs requiring alumina cleanup
CO =COncentration required	Vial volume above mark
=Carryover Suspected from prior analysis	Reinject if rest of data O.K.; see Appendix
CT =ConTamination suspected	Applies only to effected samples in

	which contamination is verified
.. =Data on Hold	Hold unless QA approves
J1 =requires DIlution	Lab may dilute or require reextract using less raw sample
DW =Urong Dilution chosen	Lab must rerun at correct dilution
FD =Extract went to Dryness	Usually reextract
: =only D14-terphEnyl High	See AH, AL codes and Appendix
aL =only D14-terphEnyl Low	See AH, AL codes and Appendix
FH =only 2-Fluorophenol High	Must reextract uhless I.S. problem
FL =only 2-Fluorophenol Low	Same as above; verify all areas
FO =FOamed during purging	VOAs; reprep at dilution, repurge
FS =Screen Failure	Blank, BS, or original screened Med
IF =Instrument Failure; data lost	Must describe failure in Comments
IH =Internal standard(s) High	Reinject uhless I.S. solution added to extract; also see IL
IL =Internal standard(s) Low	If ext.std. not appropriate, should reinject or reextract.
IM =Internal standard Missing	Solution not added during prep.
IR =Ion Ratios outside range	TCDDs
IW =Urong Instrument	Injected on wrong OWA--reinject
JS =reinJection Same as prior analysis	Use if data fails for same reason; see Appendix
LA =Lab Accident; sample/data lost	Describe LA in Comments section
LS =Screened Low, but really high level	GC/MS run indicates Medium Level
MS =Screened Med, but really clean	GC/MS results indicate Low Level
NH =only D5-Nitrobenzene High	See FH, FL codes
NL =only D5-Nitrobenzene Low	See FH, FL codes
NM =did Not Match prior run or duplicate	Applies to appearance of sample extracts or RICs, hot % recoveries
OT =OTher	Describe failure in Comments
OW =Urong Original used for QC sample	Automatic reextraction
PC =Poor Chromatography	Perform maintenance if necessary
=only D5-Phenol High	See AH, FH codes
PL =only D5-Phenol Low	See AL, FL codes
RA =RIC Appearance unacceptable	High baseline, solvent peaks, etc.
RI =Recovery Indeterminate	TCDDs
RN =Reanalyze Neat; was run as a dilution	Used when RIC relatively clean
RO =signal-to-noise Ratio Out	TCDDs
RU =Repeated Unnecessarily	An acceptable prior run exists; see Appendix
SF =Spike recoveries Failed	See SOPs for approval criteria
SH =Surrogate(s) uniformly High	See AH, AL codes and Appendix
SI =Spiked Inadvertently	Automatic reextraction
SL =Surrogate(s) uniformly Low	See AH, AL codes and Appendix
SM =surrogate or spike Standard Missing	Solution not added inadvertently
SU =Urong Standard(s) used	Usually automatic reextraction
TH =only Tribromophenol High	See AH, AL codes and Appendix
TL =only Tribromophenol Low	See Ah, AL codes and Appendix
UP =Unacceptable Precision between QCs	For comparing SS's or Duplicates (RPDs between spikes,hits,surrs.)
VC =purge Vessel Cracked	VOAs; reprep sample and repurge
YH =only 2-fluorobiphenYl High	See AH code
YL =only 2-fluorobiphenYl Low	See AH, AL codes

II. FINAL CODES FOR PRODUCTION SAMPLES:

. =Dilution Acceptable	Sample required reanalysis as a dilution; criteria met/qualified

EA	=re-Extraction data Acceptable	For sample reextracted at least once; even if also reinjected
ES	=re-Extraction Same as prior extraction	QAN required; "matrix" effects confirmed; all data comparable
**	=reinJect data Acceptable	For sample only extracted once and reinjected successfully
NS	=No Sample left for re-extraction	QAN required; lab responsible for determining deliverability of data
OK	=data acceptable first time through	NEVER USE FOR REPEAT STATUS; first injection acceptable as is

III. FINAL CODES FOR QUALITY CONTROL SAMPLES*

A. QCs that meet criteria or require laboratory-supplied qualifier:

AN	=QC Acceptable but Not used	Blanks and blank spikes tripped by system AND RUN but not needed
CA	=QC CAncelled	All samples (incl. QCs) cancelled and never analyzed (fill out form)
DA	=Dilution Acceptable	QC required rerun as dilution; criteria met/qualified by lab
EA	=re-Extraction data Acceptable	For QC sample re-extracted; all criteria met/qualified by lab
JA	=reinJection data Acceptable	QC reinjected; all criteria met/ qualified by lab
OK	=data acceptable first time through	First injection of first QC extract; met/qualified by lab
UN	=QC Unacceptable but Not used	Blanks and blank spikes tripped and run but not needed (see AN code)

B. QCs that don't meet criteria and/or require special QA intervention (DA approval or QA-supplied qualifier) for production sample release:

DQ	=QC required Dilution and qualified	Not acceptable unless QA approves or inserts special Notice
EQ	=QC re-Extracted and qualified	Not acceptable unless QA approves or inserts special Notice
JQ	=QC reinJected and qualified	Not acceptable unless QA approves or inserts special Notice
NQ	=No sample left for re-extraction of QC	Not acceptable unless QA approves or inserts special Notice
OQ	=QC is OK and qualified	Not acceptable unless QA approves or inserts special Notice (see Appendix)

*these are the only codes that will allow associated production samples to "blast" into Phase II. All other codes will hold samples in Phase I.

APPENDIX

REVISED 1-31-84: New UP code (note above); also note that EA code is now being used where RA was used--there is no longer an RA code. Sorry about the confusion.

REVISED 2-5-84: New JS and DA codes. These will prevent the unnecessary counting of problems existing in the first injection and

I. NARRATIVE

CASE NO. Gen Init May 1985 Water
Site 6, Trig Blank

A. Cover Letter and Sample Index
B. Case Problems
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A. Cover Letter and Sample Index

CASE SUMMARY NARRATIVE CASE GEN. TE.
2 Water Samples

Attached are copies of the Quality Assurance Notices which pertain to the samples in this case.

Both samples were received 5/6/85. Sample temperature upon receipt was normal (4 C). Initial volatile sample preparations were performed on the day of receipt. Semivolatile sample preparations were performed on 5/7/85.

Sample T/BLK11447 was analyzed for volatiles only and sample 58705-G was analyzed for volatiles and semi-volatiles.

All volatile analyses were performed using 5 milliliters of sample. Small amounts of methylene chloride and/or acetone were detected in all samples and associated blanks.

Sample 58705-G had no reportable semi-volatile HSL compounds.

No volatile tentatively identified compounds were detected in either sample.

A laboratory artifact (hexadecyne) was present in some of the samples and quality control samples included in this case. We are presently testing to determine the source of this compound so it may be eliminated. Hexadecyne has been labelled as a laboratory artifact on the individual copies of Form IV.

Surrogate recovery acceptance criteria were met for all fractions of all samples. Data generated from the matrix spike/matrix spike duplicate tests were quite good although 4-nitrophenol was not detected probably due to the low spiking level.

Stephen G. Walburn

Stephen G. Walburn
Assistant Manager Semivolatile Analysis

CompuChem Sample #	EPA/SMO Sample #
49861	50705-G
49862	T/BLK11447

B. Case Problems

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QUALITY ASSURANCE NOTICE
sample # [illegible]
fraction [illegible]

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scans: 912 _____ _____ _____ _____ _____

SL
4/17/85

QAN10S
850218

QUALITY ASSURANCE NOTICE
sample # 4485V
fraction SLV

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scans: 91V

JK
5/20/87V

QAN10S
850218

QUALITY ASSURANCE NOTICE
sample # 45VOC
fraction SV

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifects. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 985

SK
5/12/2

QAN105
850218

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1) There is an apparent intention to supply empty "Form I" pages (individual fractions of the Organic Analysis Data Sheets) even if fractions are not analyzed. For example, a "volatiles only" case may require blank forms for semivolatile and pesticide fractions of each sample and spike. This would accummulate many extra pages without adding information.

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Paul Mills, EPA Project Scientist, November 20, 1984

SEMIVOLATILE CALCULATIONS FOR HSL COMPOUNDS AND SURROGATES

SOIL CALCULATIONS:

FINAL VOLUME	SPLIT PEST : SV	CALCULATION:
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REFERENCE SAMPLE PACKAGE FOR THE EXTRACTION WORKSHEET FOR -717 PREP CODE AND CLIST (COMPUTER GENERATED HSL LISTING WHICH INCLUDES CALCULATION FORMULA) AS NOTED IN INDEX.

WATER CALCULATIONS:

THE ONLY ERROR IN THE WATER CALCULATIONS HAS BEEN THE ABSENCE OF THE SPLIT FACTOR IN THE SURROGATE CALCULATION. THE QUANT REPORT AMOUNT ADDED FOR THE SURROGATES IS HALF ACTUAL AMOUNT ADDED BECAUSE THE ACID AND BASE-NEUTRAL EXTRACTS ARE COMBINED JUST PRIOR TO ANALYSIS. THE CLIST SOFTWARE WAS CORRECTED DURING THE SECOND WEEK OF DECEMBER.

THE WATER SAMPLE SPIKES ARE BEING PERPARED USING 500 ML OF SAMPLE RATHER THAN 1000 ML DUE TO LIMITED SAMPLE VOLUMES. THE SURROGATE AND SPIKE STANDARDS ARE BEING DILUTED 1:1 AND THE NORMAL VOLUME HAS BEEN ADDED. THE EXTRACTS FOR THESE SAMPLE SPIKES ARE BEING CONCENTRATED TO HALF THE NORMAL VOLUME SO ALL OF THE ACTUAL CONCENTRATIONS REMAIN CONSISTANT WITH THE ACTUAL SAMPLES.

REFERENCE SAMPLE PACKAGE FOR THE CLIST FORM (COMPUTER GENERATED HSL LISTING WHICH ALSO INCLUDES THE CALCULATION FACTOR) AS NOTED IN THE INDEX.

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To protect our GC columns from unnecessary contamination samples prepared according to Caucus protocol method are routinely diluted 5:1. Through a series of experiments we have determined that our instrument detection level for pesticides is 5x lower than the EPA required reporting level. We, therefore, only adjust our detection limits if the dilution necessary to analyze the sample is greater than 5:1. If the sample is diluted by a factor of X the detection limit is adjusted by $\frac{X}{5}$ instead of X.

Jill B. Henes, Manager of GC Laboratory

Bob Meierer, Director of Quality Assurance

D. Decision Tree Process

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CONDITION CODES SOP--revised 3-28-85

CompuChem Laboratories uses the following Condition Codes to signify either the cause of a sample fraction failure or the final status of a sample before release. The "Comments" here describe the consequences of a condition code, the type of analysis for which the code applies, and/or special instructions for using the code. These codes are entered in the CLMS system under the COND column of the Sample Detail database, and govern the release of samples to the client.

This code list is divided into three main sections. The first group of codes represent "Failure" codes, and apply to all samples which must be repeated because all criteria have not been met. These codes will appear in the prior (P) slots of the Sample Detail. The next group are "Final" codes used for production samples which have met criteria and may be released as is or with a standard QA Notice supplied to each of the individual lab stations. The last group are "Final" codes for QC samples; part A consists of codes also used for production samples, while part B is a list of codes which apply only to QC samples. This list covers QC data which does not meet all QC criteria, but is "salvageable" by QA if the associated samples are not effected.* Codes from groups II and III will appear only in the final (F) slots of the Sample Detail.

At the end of this SOP is an Appendix which chronicles changes to the list. It is critical that only the most recently revised list be used in each department. This section also serves to clarify misinterpretations or misuses of the codes, and further explain applicetions of various codes. The individual laboratory stations are responsible for assigning codes to each paperwork issued, even if no injection is made. Every scheduling detail must have a condition code assigned. Any questions concerning condition codes should be addressed to Bob Whitehead. These codes are monitored periodically to insure correct application and pinpoint trends for feedback to management. This SOP must be read and signed by all those responsible for assigning or altering condition codes.

CODE	EXPLANATION/COMMENTS
I. FAILURE CODES FOR ALL PRODUCTION AND QUALITY CONTROL SAMPLES:	
AH =Acid surrogates High	Verify vial volumn and I.S. areas
AL =Acid surrogates Low	Use only when not chromatography related (PC)
BB =Bad associated Blank	Use for samples NOT analyzed due to bad blank--see Appendix
BF =Blank requires Florisil cleanup	When associated pests florisilled
BH =Base/neutral surrs High	See AH code
BL =Base/neutral surrs Low	See AL code
BU =Back-Up extract; screened Medium	Extracted Low Level, but not run
CA =CAncelled	All samples (incl. QCs) cancalled and never analyzed (fill out form)
CL =needs secondary CLeanup	TCODs requiring alumina cleanup
CO =COncentration required	Vial volume above mark
C =Carryover Suspected from prior analysis	Reinject if rest of data O.K.; see Appendix
CT =ConTamination suspected	Applies only to effected samples i

		which contamination is ver'
.-	=Data on Hold	Hold unless QA approves
DI	=requires DIlution	Lab may dilute or require ree using less raw sample
DW	=Wrong Dilution chosen	Lab must rerun at correct diluti
ED	=Extract went to Dryness	Usually reextract
'H	=only D14-terphEnyl High	See AH, AL codes and Appendix
.L	=only D14-terphEnyl Low	See AH, AL codes and Appendix
FH	=only 2-Fluorophenol High	Must reextract unless I.S. problem
FL	=only 2-Fluorophenol Low	Same as above; verify all areas
FO	=FOamed during purging	VOAs; reprep at dilution, repurge
FS	=Screen Failure	Blank, BS, or original screened Med
IF	=Instrument Failure; data lost	Must describe failure in Comments
IH	=Internal standard(s) High	Reinject unless I.S. solution added to extract; also see IL
IL	=Internal standard(s) Low	If ext.std. not appropriate, should reinject or reextract.
IM	=Internal standard Missing	Solution not added during prep.
IR	=Ion Ratios outside range	TCDDs
IW	=Wrong Instrument	Injected on wrong DWA--reinject
JS	=reinJection Same as prior analysis	Use if data fails for same reason; see Appendix
LA	=Lab Accident; sample/data lost	Describe LA in Comments section
LS	=Screened Low, but really high level	GC/MS run indicates Medium Level
MS	=Screened Med, but really clean	GC/MS results indicate Low Level
NH	=only D5-Nitrobenzene High	See FH, FL codes
NL	=only D5-Nitrobenzene Low	See FH, FL codes
NM	=did Not Match prior run or duplicate	Applies to appearance of sample extracts or RICs, not % recoveries
OT	=OTher	Describe failure in Comments
OW	=Wrong Original used for QC sample	Automatic reextraction
PC	=Poor Chromatography	Perform maintenance if necessary
H	=only D5-Phenol High	See AH, FH codes
L	=only D5-Phenol Low	See AL, FL codes
RA	=RIC Appearance unacceptable	High baseline, solvent peaks, etc.
RI	=Recovery Indeterminate	TCDDs
RN	=Reanalyze Neat; was run as a dilution	Used when RIC relatively clean
RO	=signal-to-noise Ratio Out	TCDDs
RU	=Repeated Unnecessarily	An acceptable prior run exists; see Appendix
SF	=Spike recoveries Failed	See SOPs for approval criteria
SH	=Surrogate(s) uniformly High	See AH, AL codes and Appendix
SI	=Spiked Inadvertently	Automatic reextrsction
SL	=Surrogate(s) uniformly Low	See AH, AL codes and Appendix
SM	=surrogate or spike Standard Missing	Solution not added inadvertantly
SW	=Wrong Standard(s) used	Usually automatic reextraction
TH	=only Tribromophenol High	See AH, AL codes and Appendix
TL	=only Tribromophenol Low	See Ah, AL codes and Appendix
UP	=Unacceptable Precision between QCs	For comparing SS's or Duplicates (RPDs between spikes,hits,surrs.)
VC	=purge Vessel Cracked	VOAs; reprep sample and repurge
YH	=only 2-fluorobiphenYl High	See AH code
YL	=only 2-fluorobiphenYl Low	See AH, AL codes

II. FINAL CODES FOR FRDDUCTION SAMPLES:

A	=Dilution Acceptable	Sample required reanalysis as a dilution; criteria met/qualified

EA	=re-Extraction data Acceptable	For sample reextracted at once, even if also rein'
ES	=re-Extraction Same as prior extraction	QAN required; "matrix" e. confirmed; all data compar.
JA	=reinJect data Acceptable	For sample only extracted once reinjected successfully
?	=No Sample left for re-extraction	QAN required; lab responsible for determining deliverability of data
OK	=data acceptable first time through	NEVER USE FOR REPEAT STATUS; first injection acceptable as is

III. FINAL CODES FOR QUALITY CONTROL SAMPLES*

A. QCs that meet criteria or require laboratory-supplied qualifier:

AN	=QC Acceptable but Not used	Blanks and blank spikes tripped by system AND RUN but not needed
CA	=QC CAncelled	All samples (incl. QCs) cancelled and never analyzed (fill out form)
DA	=Dilution Acceptable	QC required rerun as dilution; criteria met/qualified by lab
EA	=re-Extraction data Acceptable	For QC sample re-extracted; all criteria met/qualified by lab
JA	=reinJection data Acceptable	QC reinjected; all criteria met/ qualified by lab
OK	=data acceptable first time through	First injection of first QC extract; met/qualified by lab
UN	=QC Unacceptable but Not used	Blanks and blank spikes tripped and run but not needed (see AN code)

B. QCs that don't meet criteria and/or require special QA intervention (QA approval or QA-supplied qualifier) for production sample release:

DQ	=QC required Dilution and qualified	Not acceptable unless QA approves or inserts special Notice
EQ	=QC re-Extracted and qualified	Not acceptable unless QA approves or inserts special Notice
JQ	=QC reinJected and qualified	Not acceptable unless QA approves or inserts special Notice
NQ	=No sample left for re-extraction of QC	Not acceptable unless QA approves or inserts special Notice
OQ	=QC is OK and qualified	Not acceptable unless QA approves or inserts special Notice (see Appendix)

*these are the only codes that will allow associated production samples to "blast" into Phase II. All other codes will hold samples in Phase I.

APPENDIX

REVISED 1-31-84: New UP code (note above); also note that EA code is now being used where RA was used--there is no longer an RA code. Sorry about the confusion.

.VISED 2-5-84: New JS and DA codes. These will prevent the unnecessary counting of problems existing in the first injection and

III. SAMPLE DATA PACKAGE

CASE NO. Geo Test May 1985 Water

SAMPLE NO. 50705B = COMPUCHEM NO. 49812
Site No. 1

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form 1, Part B) — Must be included even if no compounds are found.
3. Raw Data — in order: VOA, BNA, Pesticide

1. HSL Results — Organic Analysis Data Sheets (Form I)

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
507058

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CN049812812
Sample matrix: liquid
Data Release Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601 PLATINUM
Date Sample Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-09-85
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00
Percent moisture: N/A
Percent moisture (decanted):
pH: N/A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.4	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	6.4	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

·onmental Protection Agency, CLP Sample Management Office
. . Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
507058 RE

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: Low
Date extracted/prepared: 05-24-85
Date analyzed: 05-25-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorphenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronapthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818 Alexandria Virginia 22313 703/557-2490

Sample Number
58705 B

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

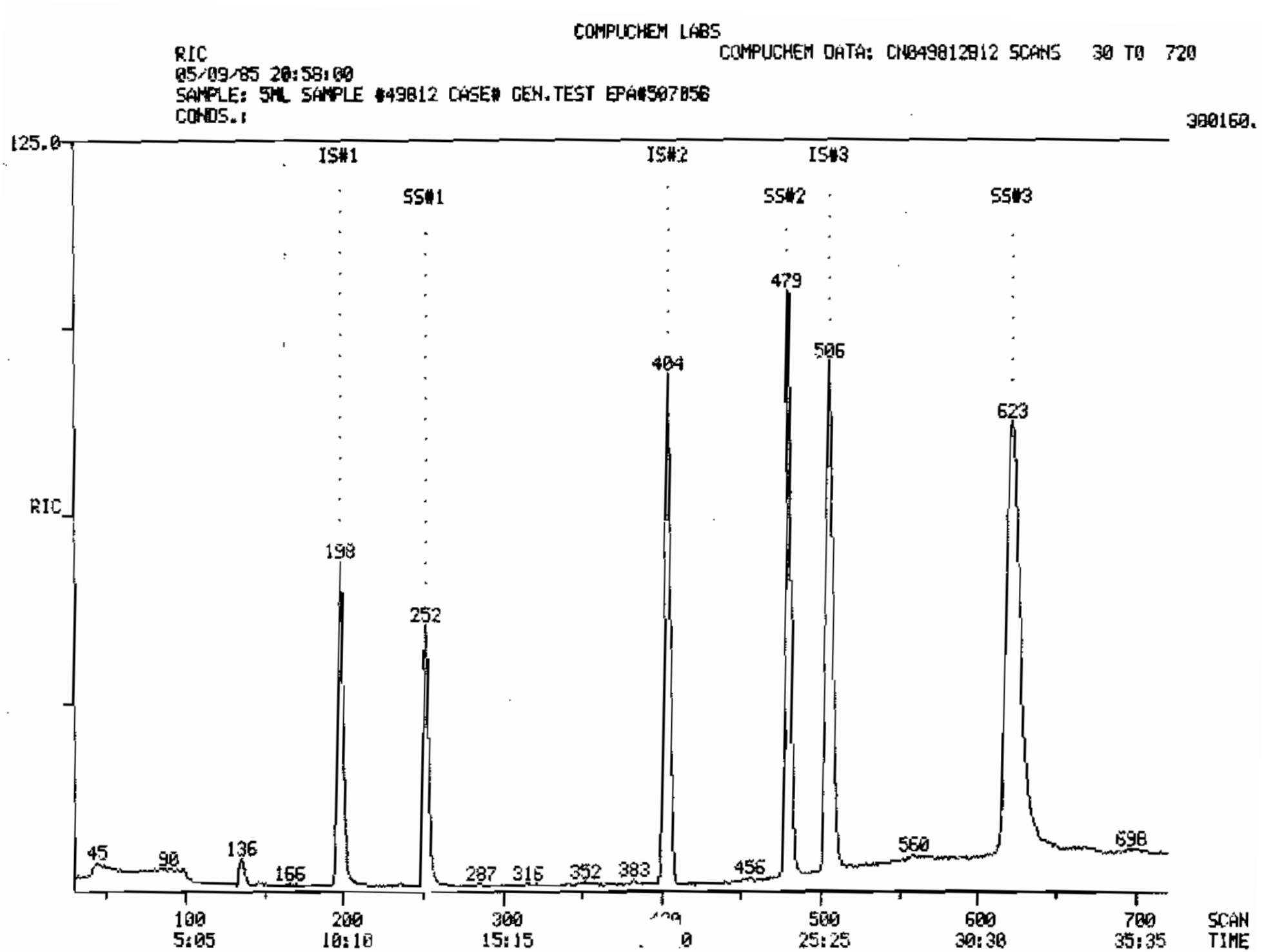
SAMPLE NUMBER
50705B

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	629-74-3	Lab Artifact 1-HEXADECYNE	SEMI	983	270.	J

SC
5/28/02


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN049812B12 SCANS 30 TO 720
05/09/85 20:58:00
SAMPLE: 5ML SAMPLE #49812 CASE# GEN.TEST EPA#507056
CONDS.:
300160.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
506
404
623
RIC
198
252
45
90
136
166
287
315
352
383
456
560
698
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/95 22:09:05
DATA FILE: CN049812812
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E2379

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	0	42	7	1	40	E237S/E237U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND			SEARCH					BAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOF	DELTA	PEAKS
1	E1	1	-173	178	178	.	1	978	.	128	178	.	1
2	E2	1	-399	404	404	.	1	994	.	114	404	.	1
3	E3	1	-501	506	506	.	1	979	.	117	506	.	1
4	E1	2	-34	39	.	.	.	.	.	50	.	.	.
5	E1	3	-54	59	.	.	.	.	.	94	.	.	.
6	E1	4	-69	74	.	.	.	.	.	62	.	.	.
7	E1	5	-89	94	.	.	.	.	.	64	.	.	.
8	E1	6	-131	136	136	.	1	945	.	84	136	.	1
9	E1	7	-143	148	.	.	.	.	.	43	147	.	1
10	E1	8	-162	167	.	.	.	.	.	76	166	.	1
11	E1	9	-185	190	.	.	.	.	.	96	.	.	.
12	E1	10	-210	215	.	.	.	.	.	63	.	.	.
13	E1	11	-224	229	.	.	.	.	.	96	.	.	.
14	E1	12	-234	239	.	.	.	.	.	83	.	.	.
15	E1	13	-249	254	.	.	.	.	.	62	.	.	.
16	E2	2	-247	252	.	.	.	.	.	72	252	.	1
17	E2	3	-276	281	.	.	.	.	.	97	.	.	.
18	E2	4	-284	289	.	.	.	.	.	117	.	.	.
19	E2	5	-285	290	.	.	.	.	.	43	.	.	.
20	E2	6	-293	298	.	.	.	.	.	83	.	.	.
21	E2	7	-321	326	.	.	.	.	.	63	.	.	.
22	E2	8	-326	331	.	.	.	.	.	75	.	.	.
23	E2	9	-337	342	.	.	.	.	.	130	342	.	1
24	E2	10	-349	354	.	.	.	.	.	129	.	.	
25	E2	11	-351	356	.	.	.	.	.	97	.	.	
26	E2	12	-347	352	.	.	.	.	.	78	353	.	
27	E2	13	-351	356	.	.	.	.	.	75	.	.	
28	E2	14	-373	378	.	.	.	.	.	63	.	.	
29	E2	15	-403	408	.	.	.	.	.	173	408	.	
30	E3	2	-414	419	.	.	.	.	.	43	418	.	1
31	E3	3	-446	451	.	.	.	.	.	43	454	.	2
32	E3	4	-451	456	.	.	.	.	.	164	455	.	1
33	E3	5	-450	455	.	.	.	.	.	83	455	.	1
34	E3	6	-479	484	.	.	.	.	.	92	483	.	1
35	E3	7	-504	509	.	.	.	.	.	112	509	.	1
36	E3	8	-553	558	.	.	.	.	.	106	557	.	1
37	E3	9	-658	663	.	.	.	.	.	104	663	.	2
38	E3	10	-667	672	.	.	.	.	.	106	671	.	2
39	E3	11	-694	699	.	.	.	.	.	106	698	.	1
40	E4	2	-247	252	252	.	1	973	.	65	252	.	1
41	E4	3	-618	623	623	.	1	992	.	95	623	.	1
42	E4	4	-475	480	479	-1	1	990	.	98	479	.	1

INTERNAL STANDARD AREA MONITOR

METHOD: E237 FILENAME: CN049812B12 DATE: 05/09/85
SHIFT STD: C8850509B12 TIME: 20:58

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
* BROMOCHLOROMETHANE (IS)	107079.	135457.	-18.	PASS
* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)	433867.	512684.	-14.	PASS
* D5 CHLOROBENZIENE(INTERNAL STANDARD)	405018.	467377.	-12.	PASS

QUANTITATION REPORT FILE: CN049812B12

DATA: CN049812B12.TI
05/09/85 20:58:00
SAMPLE: SML SAMPLE #49812 CASE# GEN.TEST EPA#507058
IDS. :
SUBMITTED BY: 12 ANALYST: 719

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLORDETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STAHDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANDHE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	* D4-1,2-DICHLOROETHANE
41	* BROMOFLUOROBENZENE
42	* D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	198	10:04	1	1.000	A BB	107080.	50.000 UG/L	14.82
2	50	NOT FOUNO							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
	84	136	6:55	1	0.687	A BB	10859.	4.441	UG/L	1.32
7	43	147	7:28	1	0.742	A BB	3030.	6.420	UG/L	1.90
8	76	166	8:26	1	0.838	A BB	426.	0.062	UG/L	0.02
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	404	20:32	14	1.000	A BB	433868.	50.000	UG/L	14.82
15	72	252	12:49	14	0.624	A BB	648.	3.038	UG/L	0.90
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	342	17:23	14	0.847	A BB	693.	0.163	UG/L	0.05
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	353	17:57	14	0.874	A BB	5269.	0.898	UG/L	0.27
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	408	20:44	14	1.010	A BB	485.	0.120	UG/L	0.04
29	117	506	25:43	29	1.000	A BB	405019.	50.000	UG/L	14.82
30	43	418	21:15	29	0.826	A BB	472.	0.201	UG/L	0.06
31	43	454	23:05	29	0.897	A*BV	3739.	2.450	UG/L	0.73
32	164	455	23:08	29	0.899	A BB	315.	0.072	UG/L	0.02
33	83	455	23:08	29	0.899	A BB	1442.	0.367	UG/L	0.11
34	92	483	24:33	29	0.955	A BB	2956.	0.624	UG/L	0.18
35	112	509	25:52	29	1.006	A BB	7074.	0.918	UG/L	0.27
36	106	557	28:19	29	1.101	A BB	833.	0.203	UG/L	0.06
37	104	663	33:42	29	1.310	A*BB	3699.	0.373	UG/L	0.11
38	106	671	34:07	29	1.326	A*BV	1762.	0.318	UG/L	0.09
39	106	698	35:29	29	1.379	A BB	4397.	0.824	UG/L	0.24
40	65	252	12:49	1	1.273	A BV	189665.	56.124	UG/L	16.63
41	95	623	31:40	29	1.231	A BB	342134.	52.587	UG/L	15.59
42	98	479	24:21	1	2.419	A BV	444408.	57.209	UG/L	16.96

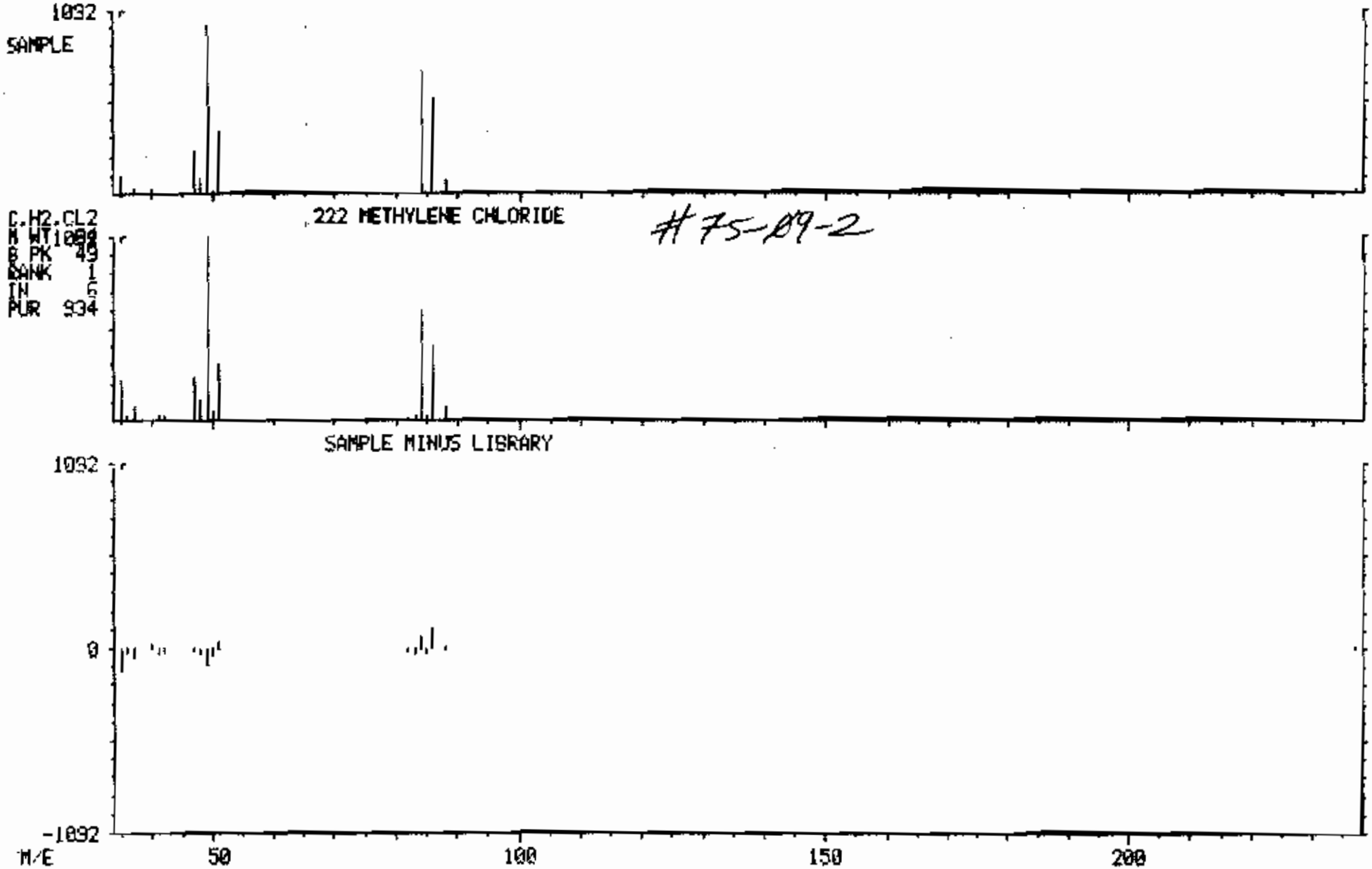
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:49	1.03	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:44		10.000			50.00		0.880	
3	2:45		10.000			50.00		1.474	
4	3:30		10.000			50.00		1.198	
5	4:31		10.000			50.00		0.626	
6	6:40	1.04	5.000	0.14	4.44	50.00	0.100	1.121	0.09
7	7:16	1.03	10.000	0.07	6.42	50.00	0.028	0.216	0.13
8	8:14	1.02	5.000	0.17	0.06	50.00	0.004	3.133	0.00
9	9:24		5.000			50.00		1.062	
10	10:40		5.000			50.00		1.852	
11	11:23		5.000			50.00		1.077	
12	11:54		5.000			50.00		2.421	
13	12:39		5.000			50.00		1.550	
14	20:17	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33	1.02	10.000	0.06	3.04	50.00	0.001	0.025	0.06
16	14:02		5.000			50.00		0.515	
7	14:26		5.000			50.00		0.546	
8	14:29		10.000			50.00		0.417	
19	14:54		5.000			50.00		0.596	
20	16:19		5.000			50.00		0.335	
21	16:34		5.000			50.00		0.234	
22	17:08	1.01	5.000	0.17	0.16	50.00	0.002	0.490	0.00
23	17:44		5.000			50.00		0.541	
24	17:51		5.000			50.00		0.303	
25	17:38	1.02	5.000	0.17	0.90	50.00	0.012	0.676	0.02
26	17:51		5.000			50.00		0.638	
27	18:58		10.000			50.00		0.190	
28	20:29	1.01	5.000	0.20	0.12	50.00	0.001	0.467	0.00
29	25:28	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:03	1.01	10.000	0.08	0.20	50.00	0.001	0.289	0.00
31	22:40	1.02	10.000	0.09	2.45	50.00	0.009	0.188	0.05
32	22:56	1.01	5.000	0.18	0.07	50.00	0.001	0.538	0.00
33	22:52	1.01	5.000	0.18	0.37	50.00	0.004	0.486	0.01
34	24:21	1.01	5.000	0.19	0.62	50.00	0.007	0.585	0.01
35	25:37	1.01	5.000	0.20	0.92	50.00	0.017	0.952	0.02
36	28:07	1.01	5.000	0.22	0.20	50.00	0.002	0.507	0.00
37	33:27	1.01	5.000	0.26	0.37	50.00	0.009	1.226	0.01
38	33:54	1.01	5.000	0.27	0.32	50.00	0.004	0.685	0.01
39	35:17	1.01	5.000	0.28	0.82	100.00	0.005	0.659	0.01
40	12:33	1.02	10.000	0.13	56.12	50.00	1.739	1.549	1.12
41	31:25	1.01	10.000	0.12	52.59	50.00	0.945	0.803	1.05
42	24:09	1.01	10.000	0.24	57.21	50.00	4.074	3.561	1.14

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 20:58:00 + 6:55
SAMPLE: 5ML SAMPLE #49812 CASE# GEH.TEST EPA#507050
ENHANCED (S 15B 2N 0T)

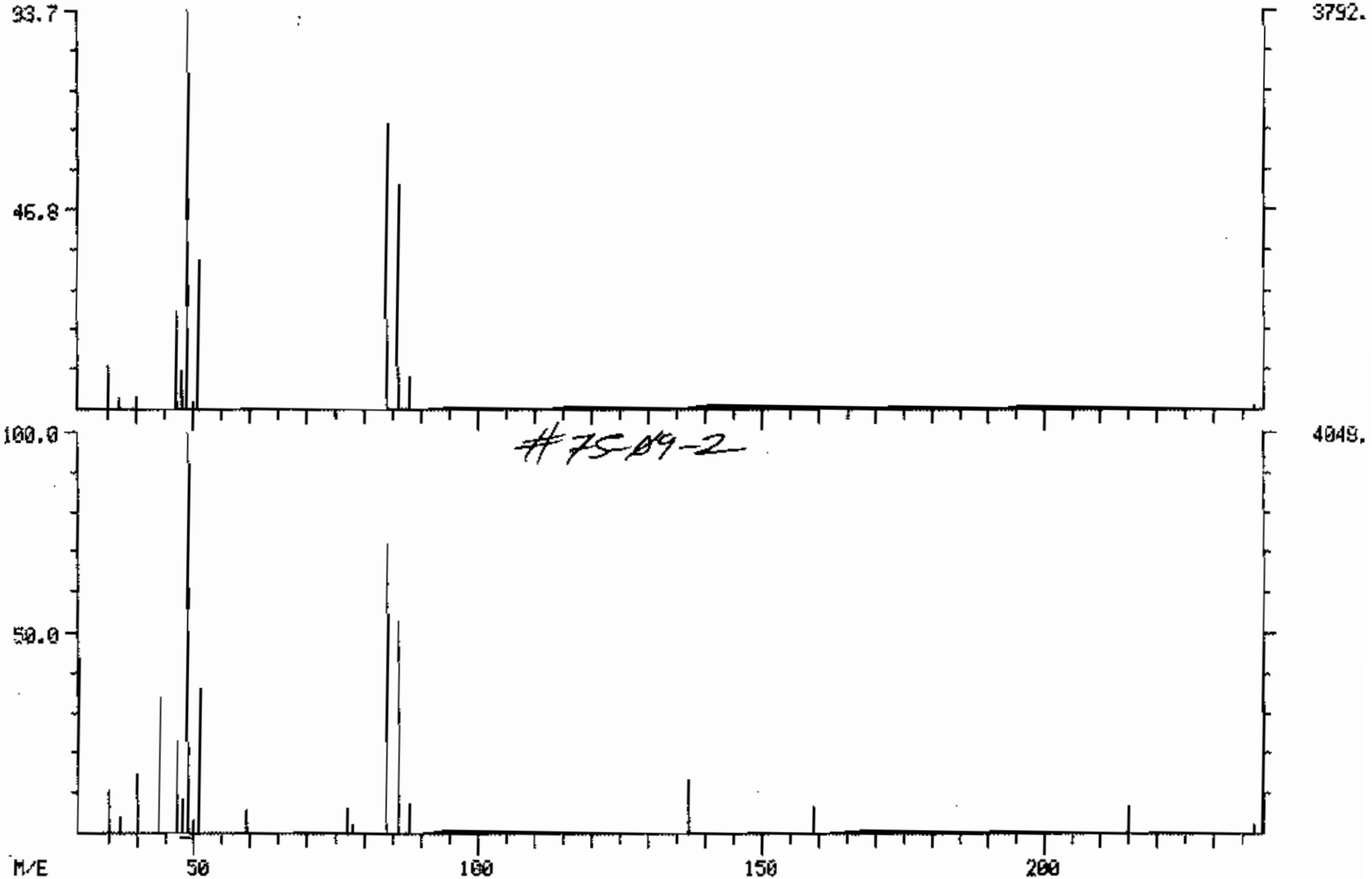
DATA: CN049812B12 # 138
BASE M/E: 49
RIC: 12335.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/03/85 20:58:00 + 6:55
SAMPLE: 5ML SAMPLE #49812 CASE# GEN.TEST EPA#5070SB
ENHANCED (S 15B 2N)

DATA: CN049812B12 #136 BASE M/E: 49/ 49
RIC: 12335./ 16543.



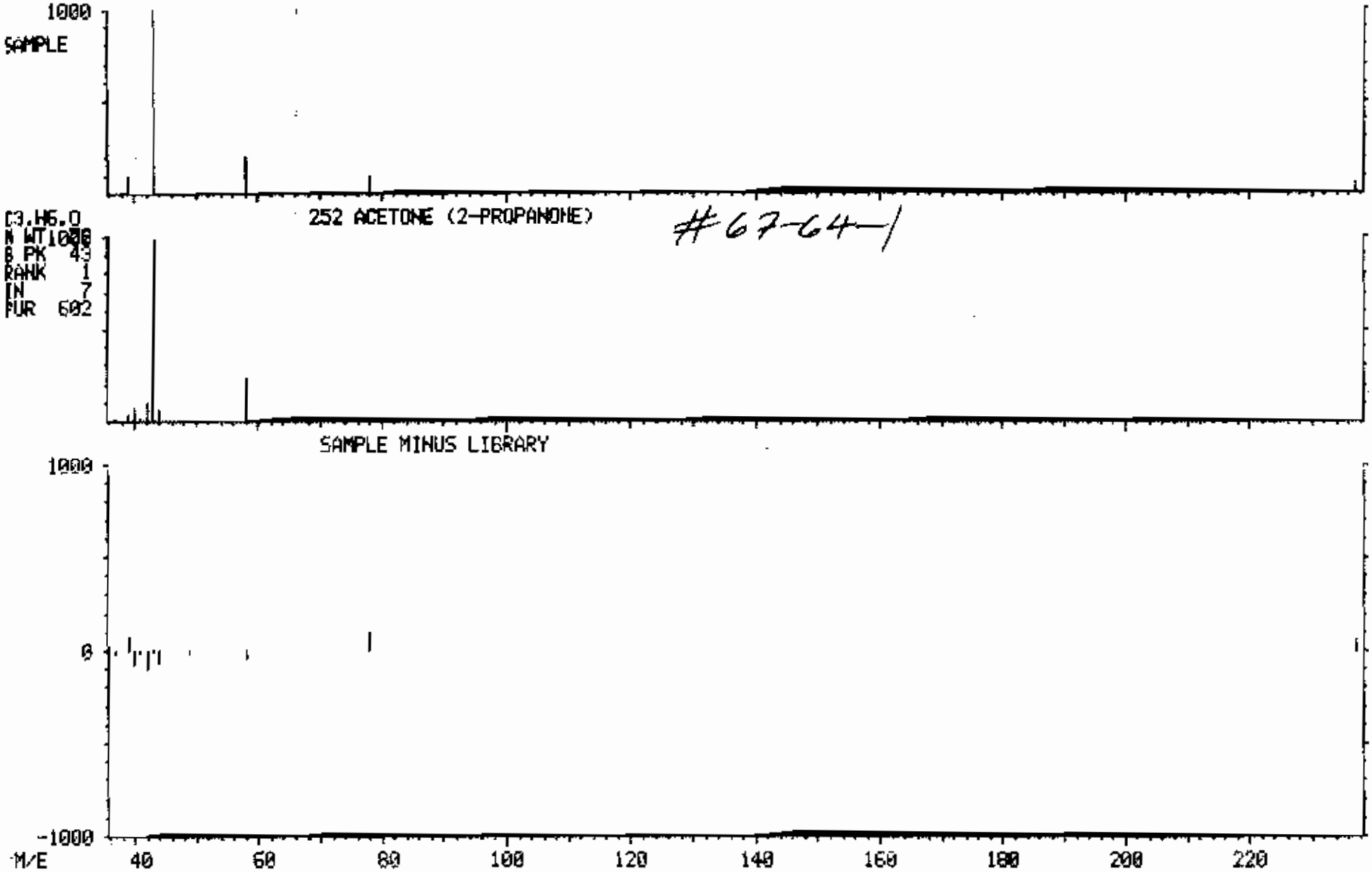
#75-09-2

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 20:58:00 + 7:28
SAMPLE: 5ML SAMPLE #49812 CASE# GEN.TEST EPA#507050
ENHANCED (S 150 2N 0T)

DATA: CN0498L2B12 # 147

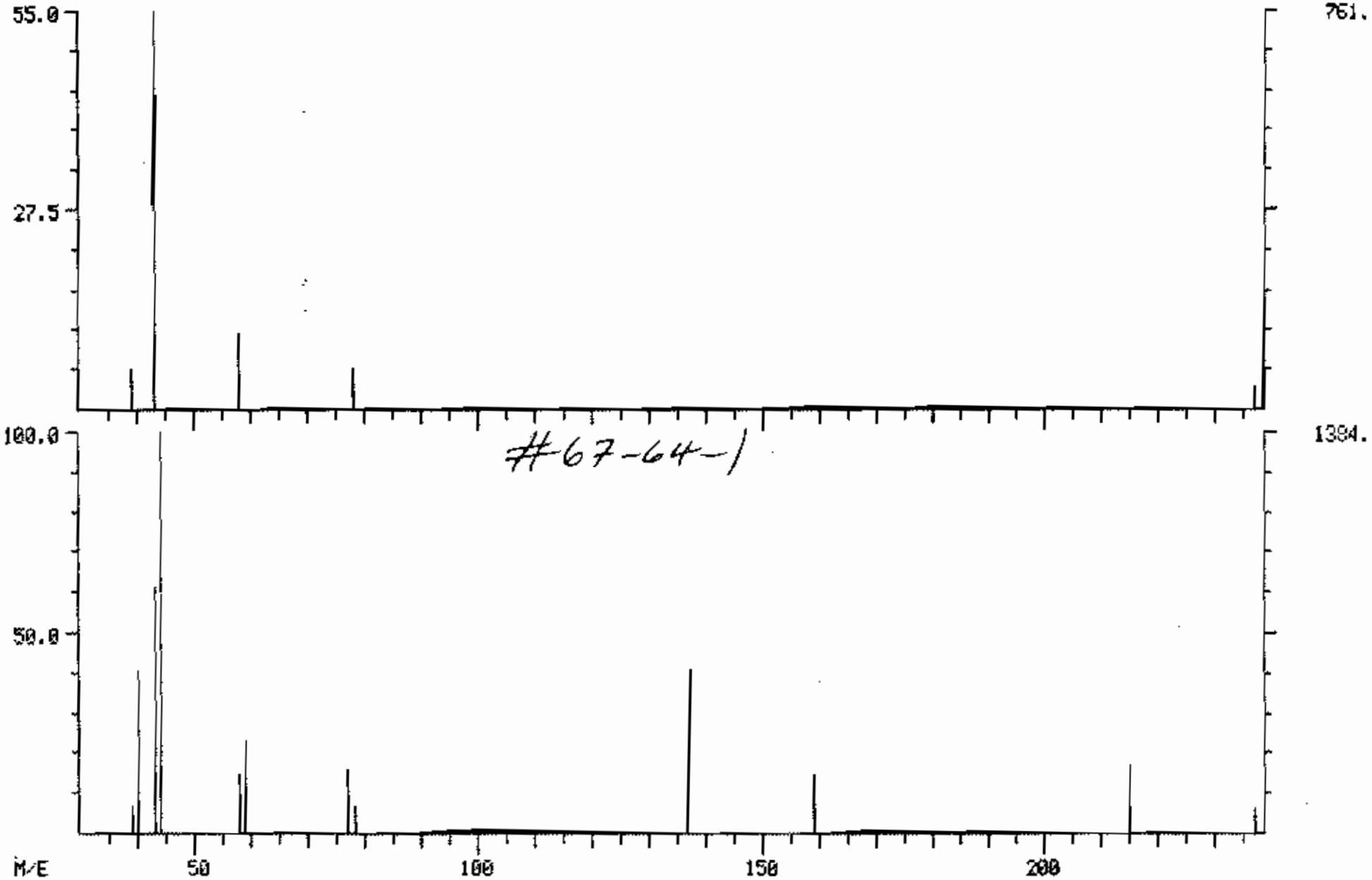
BASE M/E: 43
RIC: 1107.



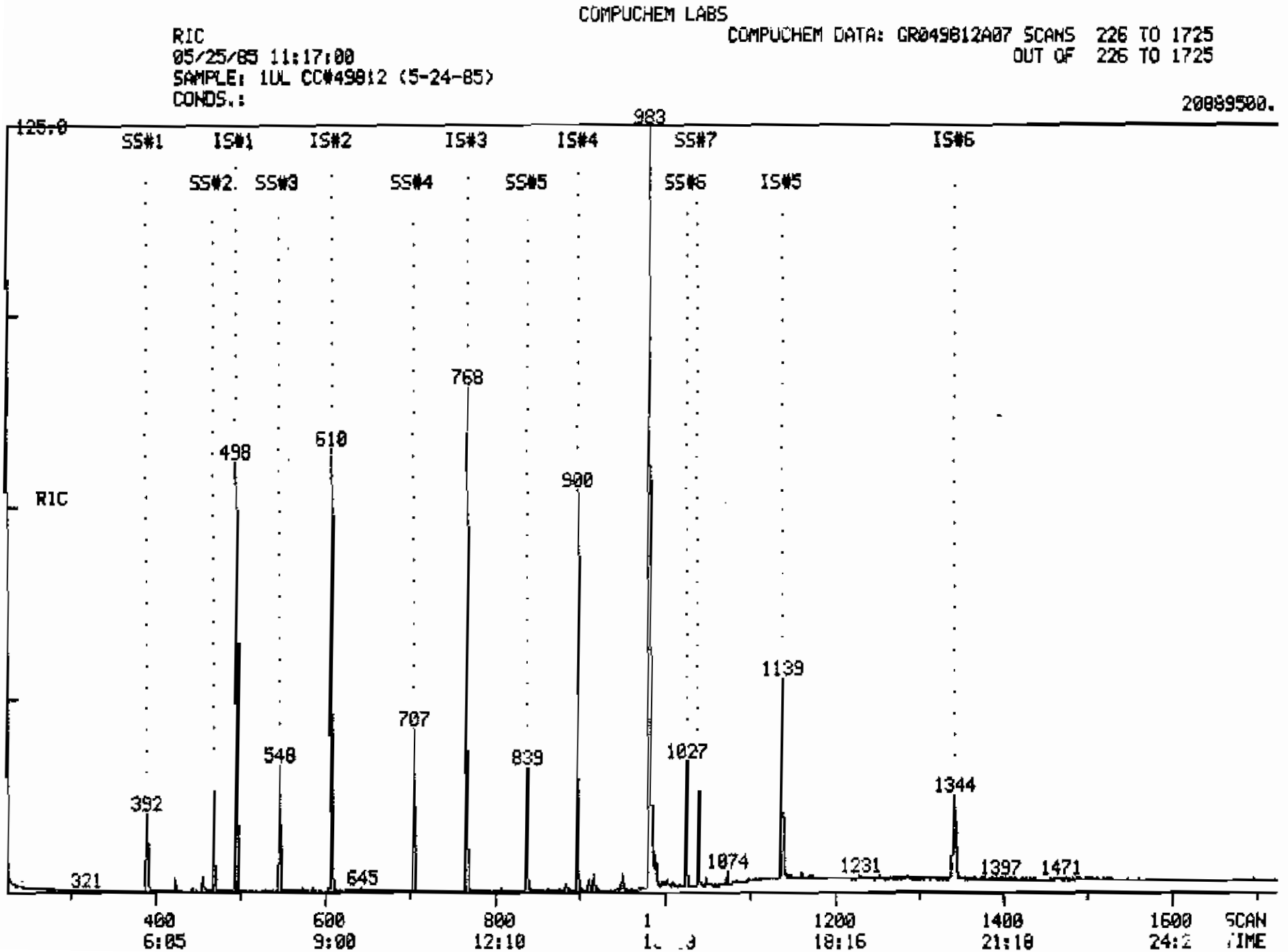
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 20:58:00 + 7:28
SAMPLE: 5ML SAMPLE #49812 CASE# GEN.TEST EPA#507058
ENHANCED (S 150 2N)

DATA: CN049812B12 #147 BASE M/E: 43/ 44
RIC: 1107./ 4815.



#67-64-1


COMPUCHEM LABS
RIC
05/25/85 11:17:00
SAMPLE: 1UL CC#49812 (5-24-85)
CONDS.:
COMPUCHEM DATA: GR049812A07 SCANS 226 TO 1725
OUT OF 226 TO 1725
20089500.
125.0
983
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
768
610
498
900
RIC
1139
707
548
839
1027
392
1344
1074
1231
1397
1471
321
645
400
6:05
600
9:00
800
12:10
1
1200
18:16
1400
21:10
1600
24:2
SCAN
TIME

PROCEDURE: RK
DATA FILE: GR049B12A07
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
4	4	1	42	33	8	1	32	SEMI1S1/SEMI1U1
3	3	1	44	28	6	1	24	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 14 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-498	498	498	1	964		152	498		1
2	G3	1	-768	768	768	1	997		164	768		1
3	G2	1	-610	610	610	1	983		136	610		1
4	G7	2	-391	392	392	1	912		112	392		1
5	G1	2	-256	257					42	256		3
6	G1	3	-471	471					94	471		1
7	G1	4	-473	473					93			
8	G1	5	-478	478					93			
9	G1	6	-482	482					128			
10	G1	7	-495	495					146			
11	G1	8	-499	499					146	499		1
12	G1	9	-511	511					108			
13	G1	10	-515	515					146			
14	G1	11	-522	522					108			
15	G1	12	-525	525					45			
[illegible]	G1	13	-534	534					108			
	G1	14	-537	537					70			
18	G1	15	-543	543					117			
19	G1	16	-550	550					77	548		1
20	G2	2	-570	570					92	569		1
21	G2	3	-578	578					139			
22	G2	4	-581	581					122			
23	G2	5	-589	589					122			
24	G2	6	-589	589					93			
25	G2	7	-598	598					162			
26	G2	8	-606	606					180			
27	G2	9	-612	612					128			
28	G2	10	-617	617					127			
29	G2	11	-628	628					225			
30	G2	12	-659	659					107			
31	G2	13	-673	673					142			
32	G3	2	-693	693					237			
33	G3	3	-700	700					196			
34	G3	4	-700	700					196			
35	G3	5	-716	716					162			
36	G3	6	-727	727					65			
37	G3	7	-746	746					163			
38	G3	8	-754	754					152			
39	G3	9	-727	727					138			
40	G3	10	-771	771					193			
41	G3	11	-773	773					184			
[illegible]	G3	12	-785	785					139			
[illegible]	G3	13	-785	785					168			
44	G3	14	-787	787					89			
45	G3	15	-752	752					165			
46	G3	16	-809	809					149	808		1
47	G3	17	-819	819					204			
48	G3	18	-816	816					166			
									139			

51	Q7	4	-548	548	548	.	1	950	.	82	548	.
52	Q7	5	-707	707	707	.	1	974	.	172	707	.
53	Q7	6	-839	839	839	.	1	949	.	141	839	.
54	Q4	1	-900	900	900	.	1	985	.	188	900	.
55	Q5	1	-1139	1139	1139	.	1	986	.	240	1139	.
56	Q6	1	-1342	1343	1343	.	1	997	.	264	1343	.
	Q4	2	-823	823	.	.	.	.	.	198	.	.
	Q4	3	-826	826	.	.	.	.	.	169	.	.
59	Q4	4	-858	858	.	.	.	.	.	248	.	.
60	Q4	5	-872	872	.	.	.	.	.	284	.	.
61	Q4	6	-887	887	.	.	.	.	.	266	.	.
62	Q4	7	-902	902	.	.	.	.	.	178	.	.
63	Q4	8	-906	906	.	.	.	.	.	178	.	.
64	Q4	9	-952	952	952	.	1	953	.	149	952	.
65	Q4	10	-1008	1008	.	.	.	.	.	202	.	.
66	Q5	2	-1018	1018	.	.	.	.	.	184	.	.
67	Q5	3	-1029	1029	.	.	.	.	.	202	1027	.
68	Q5	4	-1085	1085	.	.	.	.	.	149	1085	.
69	Q5	5	-1133	1133	.	.	.	.	.	252	1132	.
70	Q5	6	-1138	1138	.	.	.	.	.	228	1139	.
71	Q5	7	-1139	1139	.	.	.	.	.	149	1139	.
72	Q5	8	-1142	1142	.	.	.	.	.	228	1139	.
73	Q6	2	-1211	1211	.	.	.	.	.	149	1211	.
74	Q6	3	-1281	1282	.	.	.	.	.	252	.	.
75	Q6	4	-1281	1282	.	.	.	.	.	252	.	.
76	Q6	5	-1333	1334	.	.	.	.	.	252	.	.
77	Q6	6	-1585	1586	.	.	.	.	.	276	.	.
78	Q6	7	-1590	1591	.	.	.	.	.	278	.	.
79	Q6	8	-1659	1660	.	.	.	.	.	276	.	.
80	Q7	7	-1040	1040	1040	.	1	963	.	244	1040	.
81	Q8	2	-1027	1027	1027	.	1	922	.	212	1027	.

Internal Standard Area Monitor

Method: SEMI1 Filename: GR049812A07 Date: 05/25/85
Shift Std: HQ850525C07 Time: 11:17

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*** D4-1,4-DICHLOROBENZENE (IS#1)	1791420.	1563640.	15.	Pass
*** D8-NAPHTHALENE (IS#2)	5686360.	4905690.	16.	Pass
*** D10-ACENAPHTHENE (IS#3)	3139190.	2473720.	27.	Pass
*** D10-PHENANTHRENE (IS#4)	4611000.	4007800.	15.	Pass
*** D12-CHRYSENE (IS#5)	2680990.	2657500.	1.	Pass
*** D12-PERYLENE (IS#6)	2500790.	2356030.	6.	Pass

QUANTITATION REPORT

DATA: QR049812A07.TI
05/25/85 11:17:00
SAMPLE: 1UL CC#49812 (5-24-85)
COMMENTS:
SUBMITTED BY: 7 ANALYST: 644

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

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	610 PHENOL (G1#3) <108-95-2>
4	473 ANILINE (G1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
6	601 2-CHLOROPHENOL (G1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
9	474 BENZYL ALCOHOL (G1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
11	620 2-METHYLPHENOL (G1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
13	622 4-METHYLPHENOL (G1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
15	436 HEXACHLOROETHANE (G1#15) <67-72-1>
16	440 NITROBENZENE (G1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (G2#2) <78-59-1>
19	606 2-NITROPHENOL (G2#3) <88-75-5>
	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
21	625 BENZOIC ACID (G2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
25	439 NAPHTHALENE (G2#9) <91-20-3>
26	475 4-CHLOROANILINE (G2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
35	478 2-NITROANILINE (G3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
37	402 ACENAPHTHYLENE (G3#8) <208-96-8>
38	479 3-NITROANILINE (G3#9) <99-09-2>
39	401 ACENAPHTHENE (G3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (G3#11) <51-28-5>
41	607 4-NITROPHENOL (G3#12) <100-02-7>
42	476 DIBENZOFURAN (G3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
..	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
	### D5-PHENOL (SS#2)
,/	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	152	498	7:35	1	1.000	A BB	1791420.	40.000 NG	11.05
2	42	256	3:54	1	0.514	A*VB	13632.	0.173 NG	0.05
3	94	471	7:10	1	0.946	A BB	2816.	0.033 NG	0.01
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	NOT FOUND							
7	146	NOT FOUND							
8	146	499	7:36	1	1.002	A BB	2016.	0.028 NG	0.01
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	NOT FOUND							
13	108	NOT FOUND							
14	70	NOT FOUND							
15	117	NOT FOUND							
16	77	548	8:20	1	1.100	A BB	7456.	0.092 NG	0.03
17	136	610	9:17	17	1.000	A BB	5686360.	40.000 NG	11.05
3	82	569	8:40	17	0.933	A BB	2592.	0.019 NG	0.01
/	139	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
	162	NOT FOUND								
[illegible]	180	NOT FOUND								
25	128	NOT FOUND								
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	NOT FOUND								
29	142	NOT FOUND								
30	164	768	11:41	30	1.000	A BB	3139190.	40.000	NG	11.05
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	NOT FOUND								
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	NOT FOUND								
40	184	NOT FOUND								
41	139	NOT FOUND								
42	168	NOT FOUND								
43	89	NOT FOUND								
44	165	NOT FOUND								
45	149	808	12:18	30	1.052	A BB	37376.	0.292	NG	0.08
46	204	NOT FOUND								
47	166	NOT FOUND								
48	138	NOT FOUND								
	188	900	13:42	49	1.000	A BV	4611000.	40.000	NG	11.05
[illegible]	198	NOT FOUND								
51	169	NOT FOUND								
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	NOT FOUND								
55	178	NOT FOUND								
56	178	NOT FOUND								
57	149	952	14:29	49	1.058	A VV	379008.	2.217	NG	0.61
58	202	NOT FOUND								
59	240	1139	17:20	59	1.000	A BV	2680990.	40.000	NG	11.05
60	184	NOT FOUND								
61	202	1027	15:38	59	0.902	A BB	2400.	0.022	NG	0.01
62	149	1085	16:31	59	0.953	A VV	14363.	0.258	NG	0.07
63	252	1132	17:14	59	0.994	A BB	2304.	0.189	NG	0.05
64	228	1139	17:20	59	1.000	A BB	7392.	0.093	NG	0.03
65	149	1139	17:20	59	1.000	A VV	77774.	0.849	NG	0.23
66	228	1139	17:20	59	1.000	A BB	7392.	0.102	NG	0.03
67	264	1343	20:26	67	1.000	A BV	2500790.	40.000	NG	11.05
68	149	1211	18:26	67	0.902	A*VV	16254.	0.119	NG	0.03
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
73	278	NOT FOUND								
[illegible]	276	NOT FOUND								
[illegible]	112	392	5:58	1	0.787	A BV	796320.	12.868	NG	3.55

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
76	99	470	7:09	1	0.944	A BV	809088.	10.373 NG	2.86
77	82	548	8:20	17	0.898	A BV	1185340.	14.888 NG	4.11
78	172	707	10:46	30	0.921	A BV	1622970.	14.342 NG	3.96
	141	839	12:46	30	1.092	A BB	222784.	25.629 NG	7.08
[illegible]	244	1040	15:50	59	0.913	A BV	1489750.	20.240 NG	5.59
81	212	1027	15:38	59	0.902	A VV	1814650.	19.334 NG	5.34

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:54	1.00	10.000	0.05	0.17	50.00	0.006	1.764	0.00
3	7:10	1.00	10.000	0.09	0.03	50.00	0.001	1.901	0.00
4	7:12		10.000			50.00		1.705	
5	7:16		10.000			50.00		1.998	
6	7:20		10.000			50.00		1.329	
7	7:32		10.000			50.00		1.574	
8	7:36	1.00	10.000	0.10	0.03	50.00	0.001	1.623	0.00
9	7:47		10.000			50.00		0.768	
10	7:50		10.000			50.00		1.461	
11	7:57		10.000			50.00		1.099	
12	7:59		10.000			50.00		2.878	
13	8:08		10.000			50.00		1.225	
14	8:10		10.000			50.00		1.340	
15	8:16		10.000			50.00		0.735	
16	8:22	1.00	10.000	0.11	0.09	50.00	0.003	1.810	0.00
17	9:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:40	1.00	10.000	0.09	0.02	50.00	0.000	0.981	0.00
19	8:48		10.000			50.00		0.194	
20	8:50		10.000			50.00		0.358	
21	8:58		50.000			50.00		0.165	
	8:58		10.000			50.00		0.485	
[illegible]	9:06		10.000			50.00		0.327	
24	9:13		10.000			50.00		0.386	
25	9:19		10.000			50.00		1.114	
26	9:23		10.000			50.00		0.306	
27	9:33		10.000			50.00		0.222	
28	10:02		10.000			50.00		0.400	
29	10:14		10.000			50.00		0.688	
30	11:41	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:33		10.000			50.00		0.305	
32	10:39		10.000			100.00		0.388	
33	10:39		50.000			100.00		0.388	
34	10:54		10.000			50.00		1.271	
35	11:04		50.000			50.00		0.589	
36	11:21		10.000			50.00		1.482	
37	11:28		10.000			50.00		1.775	
38	11:04		50.000			50.00		0.408	
39	11:44		10.000			50.00		1.253	
40	11:46		50.000			50.00		0.070	
41	11:57		50.000			50.00		0.895	
42	11:57		10.000			50.00		1.665	
43	11:59		10.000			50.00		0.463	
44	11:27		10.000			50.00		0.293	
45	12:19	1.00	10.000	0.11	0.29	50.00	0.010	1.631	0.01
46	12:24		10.000			50.00		0.598	
[illegible]	12:25		10.000			50.00		1.313	
[illegible]	12:29		50.000			50.00		0.166	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:42	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:31		50.000			50.00		0.084	
51	12:34		10.000			50.00		0.476	
	13:03		10.000			50.00		0.212	
	13:16		10.000			50.00		0.297	
54	13:30		50.000			50.00		0.066	
55	13:44		10.000			50.00		1.069	
56	13:47		10.000			50.00		0.999	
57	14:29	1.00	10.000	0.11	2.22	50.00	0.066	1.483	0.04
58	15:20		10.000			50.00		1.042	
59	17:20	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:29		50.000			50.00		0.006	
61	15:40	1.00	10.000	0.09	0.02	50.00	0.001	1.619	0.00
62	16:31	1.00	10.000	0.10	0.26	50.00	0.004	0.830	0.01
63	17:14	1.00	20.000	0.05	0.19	50.00	0.001	0.182	0.00
64	17:19	1.00	10.000	0.10	0.09	50.00	0.002	1.183	0.00
65	17:20	1.00	10.000	0.10	0.85	50.00	0.023	1.367	0.02
66	17:23	1.00	10.000	0.10	0.10	50.00	0.002	1.084	0.00
67	20:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:26	1.00	10.000	0.09	0.12	50.00	0.005	2.193	0.00
69	19:30		10.000			100.00		1.126	
70	19:30		10.000			100.00		1.126	
71	20:17		10.000			50.00		1.029	
72	24:07		10.000			50.00		1.190	
73	24:12		10.000			50.00		0.979	
74	25:15		10.000			50.00		0.961	
75	5:57	1.00	0.742	1.06	12.87	50.00	0.356	1.382	0.26
76	7:09	1.00	0.948	1.00	10.37	50.00	0.361	1.742	0.21
77	8:20	1.00	0.875	1.03	14.89	50.00	0.167	0.560	0.30
	10:46	1.00	0.906	1.02	14.34	50.00	0.414	1.442	0.29
	12:46	1.00	1.118	0.98	25.63	50.00	0.057	0.111	0.51
80	15:50	1.00	0.907	1.01	20.24	50.00	0.445	1.098	0.40
81	15:38	1.00	0.906	0.99	19.33	50.00	0.541	1.400	0.39

QUANTITATION REPORT FILE: STND

DATA: GR049812A07.TI
05/25/85 11:17:00
SAMPLE: 1UL CC#49812 (5-24-85)
DS.:
SUBMITTED BY: 7 ANALYST: 644

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	498	7:35	2	0.816	A BV	13815800.	85.261	18.78
2	RIC	610	9:17	2	1.000	A BB	16204100.	100.000	22.02
3	RIC	768	11:41	2	1.259	A VB	14868300.	91.756	20.21
4	RIC	900	13:42	2	1.475	A VB	13011000.	80.295	17.68
5	RIC	1139	17:20	2	1.867	A VV	8707000.	53.733	11.83
6	RIC	1344	20:27	2	2.203	A BV	6975700.	43.049	9.48

QUANTITATION REPORT FILE: UNKNOWN

DATA: GRD49812A07.TI
05/25/85 11:17:00
SAMPLE: 1UL CC#49812 (5-24-85)
C)S.:
S AITTED BY: 7 ANALYST: 644

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	983	14:58	1	1.000	A BV	43479200.	100.000	*100.

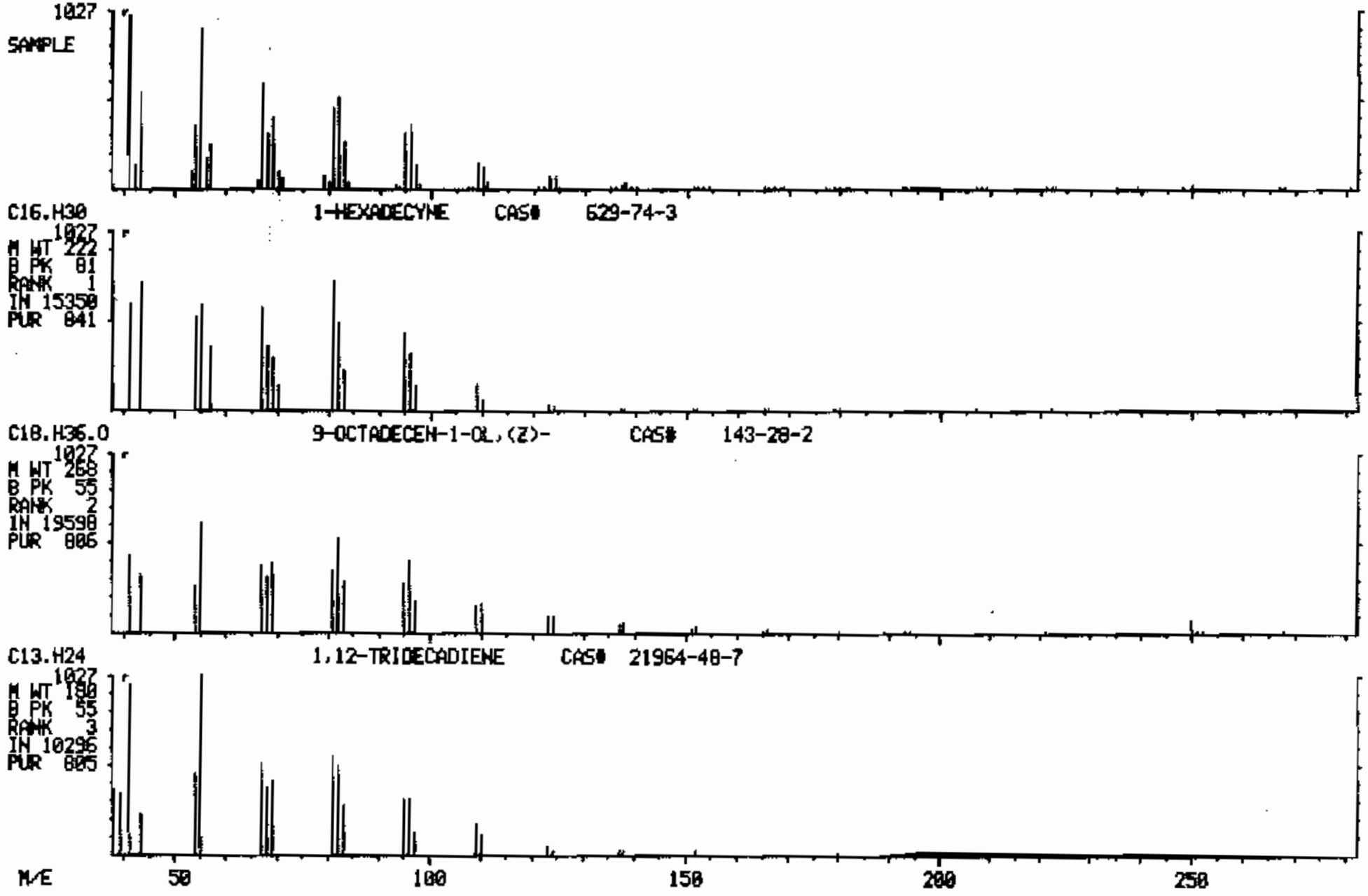
(1)
BNA

COMPUCHEM LABS

LIBRARY SEARCH
05/25/85 11:17:00 + 14:58
SAMPLE: 1UL CC#49812 (5-24-85)

L... GR049812A07 # 983
ENHANCED (10B ZN 0T)

BASE M/E: 41
RIC: 15761400.



CASE#:GEN.TEST DUE DATE: 6/17/85

VOA
GC/MS WORKSHEET COMPUCHEM#: 49812

J[ ] J3[ ] D[ ] (:1)
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: 50705B

GC/MS ANALYSIS
Amount Purged: [✓] 5mls or [ ] Dilution______ul/5000ul Sparged
Internal Standard Volume Added 5.0 ul
Surrogate Standard Volume Added 5.0 ul
BFB Filename BP850509A12 Disk(D2)
Blank Filename CC850509A12 Disk ( )
Standard Filename C5805B12 Disk ( )
Sample Filename CN80498DB12 Disk (D2)

ANALYST(S): Injection 719 Work-up 719

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR IF,LA,DI,CO,RH,DW,SI,SF UP,BB,OT,VC,FO,SM

Disposition: [X] Complete
[ ] Reinject Neat
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: Ø

Quality Assurance Notice(s):
Notices Required__________

COMMENTS:

GC/MS Review SWB Date 5/10/85 Auditor__________ Date___/___/___

REPORT INTEGRATION Total # of Injections:__________
Final Reportable Package(s):__________/__________

QA COMMENTS:

Initials__________ Date___/___/___

FINAL REVIEW: Initials__________ Date___/___/___

ENTERED 5/12/85

EPAWATER (11/04)

CASE#: GEN TEST DUE DATE: 6/17

...I-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 49812R

J[ ] R[A] D[ ] ( )1)

J2[ ] R2[ ] D2[ ] ( )1)

LOW LEVEL LIQUID
Deliverable Code 869

Sample Prep Code---856
Instrument Code---254
Compound List---242
Surrogate Std---392
Internal Std---428 (added by GC/MS)

BAS: EPA#: 3070SB

GC/MS ANALYSIS
Volumes mixed: BN 160 ul Acid 160 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 5/24/85
DFTPP Filename DF852525C07 Disk (7)
Standard Filename BGB52525C07 Disk (2)
Sample Filename GR049812A07 Disk (2)

ANALYST(S): Injection 644 Work-up 644

GC/MS REVIEW

CONDITION CODE: FA

Entry Codes OK,EA,JA, ES,AL,AM,PL,PM,FL,JS
FM,ML,NM,YL,GL,SM,GM,YM

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,HS
SD,IF,LA,DI,CO,RK,DW,DA

Disposition: [X] Complete

Extraneous Peak Search Results:
# of Peaks Found: 1

[ ] Reinjection required

[ ] Reextraction required

Quality Assurence Notice(s): pk 20
Notices Required: 1

[ ] Dilute X ... Y)

COMMENTS:

[ ] Reinject Neat

[ ] Send to QA

GC/MS Review [signature] Date 5/28/85 Auditor _____ Date ___/___/___

REPORT INTEGRATION
Total # of Injections: 1
Final Reportable Package(s): GR

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

EXTRACTED 5/28/85

received 5/29/85

EPAWATER (11/84)

(8)

VOLATILE PREP WORKSHEET

№ 1192

ASSIGNED TO Ron

DATE 5/6/95

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
49803	-57	gen test			40 mL	5-6-95	✓		X		
49810	|	|	BS		40 mL.	|	✓		X		
49811	|	|			40 mL.	|	✓		X		
49812	|	|			40 mL.	|	✓		X		
49813	|	|			40 mL.	|	✓		X		
49841	|	|			40 mL.	✓	✓		X		
49915			B		40 mL	5-6-95	✓		X		
49916			B		40 mL	↓	✓		X		
			B								

Surrogate No 361 / 55

Amount 100 + 200 mL / 1 mL

Lot 14767 / 14346

Extracts Received 5/6/95 RD

Schedule Reference

Manual Counter 886 / 296

Issued 5/7 PM

EXTRACTION WORKSHEET

Semi-Volatiles / Miscellaneous

ASSIGNED TO: Dchrunk

DATE ASSIGNED 5/24/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49806R	-56	GenTest		55	119613	500 ml		0.5 ml	0.5 ml		13	1	5/24	since 49803 out / 49811, 12, 13, 14, 49816 / 24 hr/300
49805R	-			55		500 ml		0.5 ml	0.5 ml		13	1	5/24	Spiked 250 ml surrogate & added 500 ml wate. H_2O to samples
49811 R			N/A			1000 ml		1.0 ml	1.0 ml		13	1	5/24	
49812 R		↓	N/A			1000 ml		1.0 ml	1.0 ml		13	1	5/24	
50168R		4236	BB245			1000 ml		1.0 ml	1.0 ml		13	1	5/24	
50173R			BB246			1000 ml		1.0 ml	1.0 ml		13	1	5/24	
50180R		↓	BB249			1000 ml		1.0 ml	1.0 ml		13	1	5/24	
51625				S		1000 ml		1.0 ml	1.0 ml		13	1	5/24	
51626	↓			MS		1000 ml		1.0 ml	1.0 ml		13	1	5/24	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	14693					
SPIKE	NO.		2012	2021			
	AMT.		0.250ml	0.250ml			
	LOT		14655	14687			

MANUAL COUNTER 372/463

FINAL VOLUME VERIFIED OK

SUPERVISOR REVIEWED OK

EXTRACTS RECEIVED BY TD 5/24/85

Issued 5/24/85 TD

Nº 6218

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)		Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL		10.0
3	220	___	BROMOMETHANE			BDL		10.0
4	231	___	VINYL CHLORIDE			BDL		10.0
5	209	___	CHLOROETHANE			BDL		10.0
6	222	___	METHYLENE CHLORIDE	4.4		J	B	5.0
7	252	___	ACETONE (2-PROPANONE)	6.4		J		10.0
8	234	___	CARBON DISULFIDE			BDL		5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL		5.0
10	214	___	1,1-DICHLORDETHANE			BDL		5.0
11	226	___	TRANS-1,2-DICHLDROETHYLENE			BDL		5.0
12	211	___	CHLOROFORM			BDL		5.0
13	215	___	1,2-DICHLORDETHANE			BDL		5.0
15	253	___	2-BUTANONE			BDL		10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL		5.0
17	206	___	CARBON TETRACHLORIDE			BDL		5.0
18	257	___	VINYL ACETATE			BDL		10.0
19	212	___	BROMODICHLOROMETHANE			BDL		5.0
20	217	___	1,2-DICHLOROPROPANE			BDL		5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL		5.0
22	229	___	TRICHLOROETHYLENE			BDL		5.0
23	208	___	CHLORODIBROMOMETHANE			BDL		5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL		5.0
25	203	___	BENZENE			BDL		5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL		5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL		10.0
28	205	___	BROMOFORM			BDL		5.0
30	255	___	2-HEXANONE			BDL		10.0
31	256	___	4-METHYL-2-PENTANONE			BDL		10.0
32	224	___	TETRACHLOROETHENE			BDL		5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL		5.0
34	225	___	TOLUENE			BDL		5.0
35	207	___	CHLOROBENZENE			BDL		5
36	219	___	ETHYLBENZENE			BDL		5
37	251	___	STYRENE			BDL		5
38	239	___	M-XYLENE			BDL		5
39	240/	___	241 O- & P-XYLENE			BDL		5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	56.1	50.0	112.0	77-120	X	
41		BROMOFLUOROBENZENE	52.6	50.0	105.0	83-121	X	
42		DB-TOLUENE	57.2	50.0	114.0	86-119	X	

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloroethane > 10000 Counts	X	

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

N	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(*) (ug/l)	Detection Limit (ug/l)
2	441	___	N-NITROSODIMETHYLAMINE (G1#2) <62-			BDL	20.0
3	610	___	PHENOL (G1#3) <108-95-2>			BDL	20.0
4	473	___	ANILINE (G1#4) <62-53-3>			BDL	20.0
5	411	___	BIS(2-CHLOROETHYL)ETHER (G1#5) <11			BDL	20.0
6	601	___	2-CHLOROPHENOL (G1#6) <95-57-8>			BDL	20.0
7	421	___	1,3-DICHLOROBENZENE (G1#7) <541-73			BDL	20.0
8	422	___	1,4-DICHLOROBENZENE (G1#8) <106-46			BDL	20.0
9	474	___	BENZYL ALCOHOL (G1#9) <100-51-6>			BDL	20.0
10	420	___	1,2-DICHLOROBENZENE (G1#10) <95-50			BDL	20.0
11	620	___	2-METHYLPHENOL (G1#11) <95-48-7>			BDL	20.0
12	412	___	BIS(2-CHLOROISOPROPYL)ETHER (G1#12			BDL	20.0
13	622	___	4-METHYLPHENOL (G1#13) <106-44-5>			BDL	20.0
14	442	___	N-NITROSO-DI-N-PROPYLAMINE (G1#14)			BDL	20.0
15	436	___	HEXACHLOROETHANE (G1#15) <67-72-1>			BDL	20.0
16	440	___	NITROBENZENE (G1#16) <98-95-3>			BDL	20.0
18	438	___	ISOPHORONE (G2#2) <78-59-1>			BDL	20.0
19	606	___	2-NITROPHENOL (G2#3) <88-75-5>			BDL	20.0
20	603	___	2,4-DIMETHYLPHENOL (G2#4) <105-67-			BDL	20.0
21	629	___	BENZOIC ACID (G2#5) <65-85-0>			BDL	100.0
22	410	___	BIS(2-CHLOROETHOXY)METHANE (G2#6)			BDL	20.0
23	602	___	2,4-DICHLOROPHENOL (G2#7) <120-83-			BDL	20.0
24	446	___	1,2,4-TRICHLOROBENZENE (G2#8) <120			BDL	20.0
25	439	___	NAPHTHALENE (G2#9) <91-20-3>			BDL	20.0
27	475	___	4-CHLOROANILINE (G2#10) <106-47-8>			BDL	20.0
2	434	___	HEXACHLOROBUTADIENE (G2#11) <87-68			BDL	20.0
28	608	___	P-CHLORO-M-CRESOL (G2#12) <59-50-7			BDL	20.0
29	477	___	2-METHYLNAPHTHALENE (G2#13) <91-57			BDL	20.0
31	435	___	HEXACHLOROCYCLOPENTADIENE (G3#2) <			BDL	20.0
32	611	___	2,4,6-TRICHLOROPHENOL (G3#3) <88-0			BDL	20.0
33	626	___	2,4,5-TRICHLOROPHENOL (G3#4) <95-9			BDL	100.0
34	416	___	2-CHLORONAPHTHALENE (G3#5) <91-58-			BDL	20.0
35	478	___	2-NITROANILINE (G3#6) <88-74-4>			BDL	100.0
36	425	___	DIMETHYL PHTHALATE (G3#7) <131-11-			BDL	20.0
37	402	___	ACENAPHTHYLENE (G3#8) <208-96-8>			BDL	20.0
38	479	___	3-NITROANILINE (G3#9) <99-09-2>			BDL	100.0
39	401	___	ACENAPHTHENE (G3#10) <83-32-9>			BDL	20.0
40	605	___	2,4-DINITROPHENOL (G3#11) <51-28-5			BDL	100.0
41	607	___	4-NITROPHENOL (G3#12) <100-02-7>			BDL	100.0
42	476	___	DIBENZOFURAN (G3#13) <132-64-9>			BDL	20.0
43	427	___	2,4-DINITROTOLUENE (G3#14) <121-14			BDL	20.0
44	428	___	2,6-DINITROTOLUENE (G3#15) <606-20			BDL	20.0
45	424	___	DIETHYL PHTHALATE (G3#16) <84-66-2			BDL	20.0
46	417	___	4-CHLOROPHENYL PHENYL ETHER (G3#17			BDL	20.0
47	432	___	FLUORENE (G3#18) <86-73-7>			BDL	20.0
48	480	___	4-NITROANILINE (G3#19) <100-01-6>			BDL	100.0
50	604	___	4,6-DINITRO-2-METHYLPHENOL (G4#2)			BDL	100.0
51	443	___	N-NITROSODIPHENYLAMINE (G4#3) <86-			BDL	20.0
52	414	___	4-BROMOPHENYL PHENYL ETHER (G4#4)			BDL	20.0
53	433	___	HEXACHLOROBENZENE (G4#5) <118-74-1			BDL	20.0
	609	___	PENTACHLOROPHENOL (G4#6) <87-86-5>			BDL	100.0
	444	___	PHENANTHRENE (G4#7) <85-01-8>			BDL	20.0
56	403	___	ANTHRACENE (G4#8) <120-12-7>			BDL	20.0
57	426	___	DI-N-BUTYL PHTHALATE (G4#9) <84-74			BDL	20.0
58	431	___	FLUORANTHENE (G4#10) <206-44-0>			BDL	20.0

	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(*) (ug/l)	Detection Limit (ug/l)
60	404	___	BENZIDINE (G5#2) <92-87-5>			BDL	100.0
61	445	___	PYRENE (G5#3) <129-00-0>			BDL	20.0
62	415	___	BUTYLBENZYL PHTHALATE (G5#4) <85-6			BDL	20.0
63	423	___	3,3'-DICHLOROBENZIDINE (G5#5) <91-			BDL	40.0
64	405	___	BENZO(A)ANTHRACENE (G5#6) <56-55-3			BDL	20.0
65	413	___	BIS(2-ETHYLHEXYL) PHTHALATE (G5#7)			BDL	20.0
66	418	___	CHRYSENE (G5#8) <218-01-9>			BDL	20.0
68	429	___	DI-N-OCTYL PHTHALATE (G6#2) <117-8			BDL	20.0
69	407	___	BENZO(B)FLUORANTHENE (G6#3) <205-9			BDL	20.0
70	409	___	BENZO(K)FLUORANTHENE (G6#4) <207-0			BDL	20.0
71	406	___	BENZO(A)PYRENE (G6#5) <50-32-8>			BDL	20.0
72	437	___	INDENO(1,2,3-C,D)PYRENE (G6#6) <19			BDL	20.0
73	419	___	DIBENZO(A,H)ANTHRACENE (G6#7) <53-			BDL	20.0
74	408	___	BENZO(G,H,I)PERYLENE (G6#8) <191-2			BDL	20.0

N	CC IO#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
75	##	2-FLUOROPHENOL (SS#1)	12.9	50.0	26.0	23-121	X	
76	##	D5-PHENOL (SS#2)	10.4	50.0	21.0	15-103	X	
77	##	D5-NITROBENZENE (SS#3)	14.9	25.0	60.0	41-120	X	
78	##	2-FLUOROBIPHENYL (SS#4)	14.3	25.0	57.0	44-119	X	
79	##	2,4,6-TRIBROMOPHENOL (SS#5)	25.6	50.0	51.0	10-130	X	
80	##	D14-TERPHENYL (SS#6)	20.2	25.0	81.0	33-128	X	
81	##	D10 PYRENE	19.3	25.0	77.0	33-128*	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#52) D10-Phenanthrene > 40000 Cnts ___ ___

Correction Factor Calculation:

$$\frac{\text{Final Extract Volume (ml)}}{\text{1.0ml for Acid \& 1.0ml for BN}} \times \frac{1000\ \text{ml}}{\text{Vol Sample Extracted (ml)}} \times \text{Dilution Factor} \times 2 =$$

$$\frac{1.0\text{ml}}{1.0\text{ml \& } 1.0\text{ml}} \times \frac{1000.\text{ml}}{1000.\text{ml}} \times \frac{1.0}{1.0} \times 2 = 2.000$$

Quant Report amount spiked conversion factor:

$$\frac{500\ \text{ul}}{\text{Amount Surrogate Added (ul)}} \times \frac{\text{Final Extract Vol (ml)}}{\text{1.0ml for Acid \& 1.0ml for BN}} \times \text{GCMS Dilution Factor} \times 2 =$$

$$\frac{500\ \text{ul}}{500\ \text{ul}} \times \frac{1.0\text{ml}}{1.0\text{ml \& } 1.0\text{ml}} \times \frac{1.0}{1.0} \times 2 = 2.000$$

QUALITY ASSURANCE NOTICE
sample # 45812
fraction SV

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentetively identified compound spectra and retention times found by the Library Search routine of the sample and its essocieted method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 983 _____ _____ _____ _____ _____

SV
8/18

QAN10S
850218

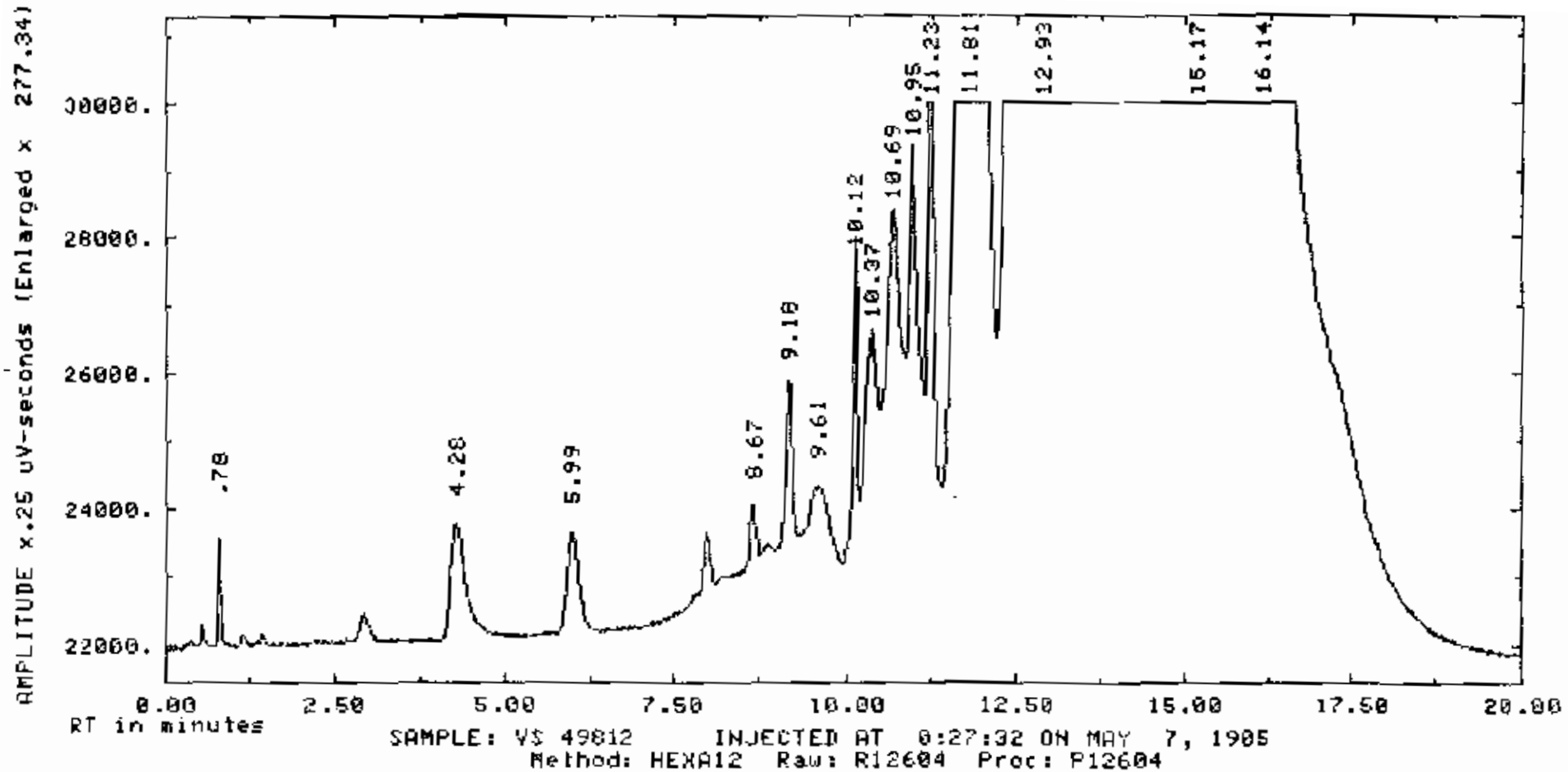
GC SCREEN DATA SHEET

Laboratory Name CompuChem

Case Number Gen. Test

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
50705B cc# 49812	VOA B/N/A Pesticides Dioxin	NO	5-7-85	L
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			

*Answer Yes or No.
**Indicate "M" for medium level GC/MS analysis.
Indicate "L" for low level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 277.34)
30000.
28000.
26000.
24000.
22000.
.78
4.28
5.99
8.67
9.10
9.61
10.12
10.37
10.69
10.95
11.23
11.81
12.93
15.17
16.14
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: V$ 49812 INJECTED AT 0:27:32 ON MAY 7, 1905
Method: HEXA12 Raw: R12604 Proc: P12604

Report: 4058.00 Channel: 12

Sample: VS 49812 Injected at 0:27:32 ON MAY 7, 1985

.0 Method: HEXA12 Seq: SEQ126 Subsq/Samp: 1/ 4 Btl: 4

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.008 minutes

Signal > 1 volt
Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.78	0.00	.10000E+01	2309.	BB	.003	
4.28	0.00	.10000E+01	11061.	BB	.013	
5.99	0.00	.10000E+01	8473.	BB	.010	
8.67	0.00	.10000E+01	1385.	BB	.002	
9.18	0.00	.10000E+01	6940.	BB	.008	
9.61	0.00	.10000E+01	7878.	BH	.009	
10.12	0.00	.10000E+01	12117.	HH	.014	
10.37	0.00	.10000E+01	22532.	HH	.026	
10.69	0.00	.10000E+01	37113.	HH	.042	
10.95	0.00	.10000E+01	32522.	HH	.037	
11.23	0.00	.10000E+01	32807.	HH	.037	
11.81	0.00	.10000E+01	240207.	HH	.272	
12.93	0.00	.10000E+01	87705296.	HS	99.286	
15.17	0.00	.10000E+01	69441.	TV	.079	
16.14	0.00	.10000E+01	146055.	VT	.165	

al Area = 88336128. Total AREA % = 146055.500

Processed data file: P12604 Raw data file: R12604

III. SAMPLE DATA PACKAGE

CASE NO. Gen. Test May 1985 Water

SAMPLE NO. 50705C = COMPUCHEM NO. 49813
Site No. 2

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)

2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.

3. Raw Data — in order: VOA, BNA, Pesticide

1. **HSL Results — Organic Analysis Data Sheets (Form I)**

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
507050

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CN049813B11
Sample matrix: liquid
Data Release Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601-PLATINUM
Date Sample Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-09-85
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00
Percent moisture: N/A
Percent moisture (decanted):
pH: N\A

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.4	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	13.		71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/ probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-06-85
Date analyzed: 05-22-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorphenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronapthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
507D5C

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER 50705C

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH049013B16

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-87-2	CYCLOHEXANE,METHYL- Alkane.	SEMI1	240	18.	J
~~2~~	~~629-74-3~~	~~1-HEXADECYNE~~ Artifact.	~~SEMI1~~	~~989~~	~~170.~~	~~J~~
~~12~~	57385-39-2	~~PREGNANE-3,20-DIONE,11,21-BIS[(TRIMETHYLSILYL)OXY]-~~ unknown.	SEMI1	1382	270.	J

2.000 40.00

SPECTROSCOPIST _____

DATE 5/22/86

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

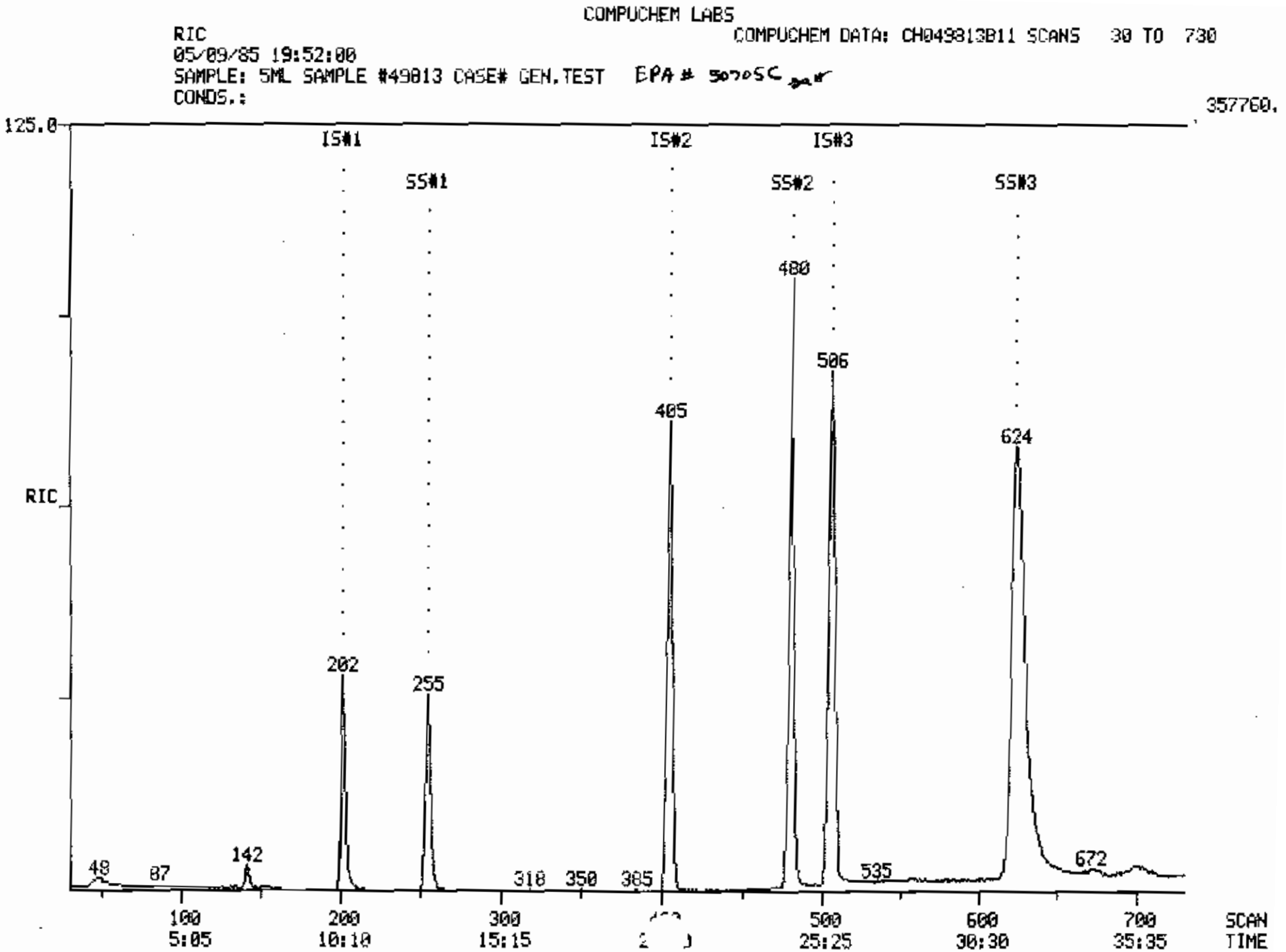
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CH049813B11 SCANS 30 TO 730
05/09/85 19:52:00
SAMPLE: 5ML SAMPLE #49813 CASE# GEN.TEST EPA # 5070SC
CONDS.:
357760.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
480
506
405
624
RIC
202
255
48
87
142
318
350
385
535
672
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK
DATA FILE: CN049813B11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	26	42	7	1	76	E237S/E237U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PREO	SAT SEL	SAT DELTA	SAT PEAKS	CHRO FIT	CHRO PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-198	202	202	.	1	984	.	128	202	.	1
2	E2	1	-404	405	405	.	1	997	.	114	405	.	1
3	E3	1	-506	506	506	.	1	992	.	117	506	.	1
4	E1	2	-41	46	.	.	.	.	.	50	.	.	.
5	E1	3	-60	65	.	.	.	.	.	94	.	.	.
6	E1	4	-76	81	.	.	.	.	.	62	.	.	.
7	E1	5	-95	100	.	.	.	.	.	64	.	.	.
8	E1	6	-137	141	142	1	1	939	.	84	142	.	1
9	E1	7	-148	152	.	.	.	.	.	43	153	.	1
10	E1	8	-167	171	.	.	.	.	.	76	.	.	.
11	E1	9	-190	194	.	.	.	.	.	96	.	.	.
12	E1	10	-215	218	.	.	.	.	.	63	.	.	.
13	E1	11	-230	233	.	.	.	.	.	96	.	.	.
14	E1	12	-240	243	.	.	.	.	.	83	242	.	1
15	E1	13	-255	258	.	.	.	.	.	62	.	.	.
16	E2	2	-253	256	.	.	.	.	.	72	.	.	.
.	E2	3	-281	284	.	.	.	.	.	97	.	.	.
.	E2	4	-289	292	.	.	.	.	.	117	.	.	.
19	E2	5	-291	294	.	.	.	.	.	43	.	.	.
20	E2	6	-298	301	.	.	.	.	.	83	.	.	.
21	E2	7	-326	328	.	.	.	.	.	63	.	.	.
22	E2	8	-331	333	.	.	.	.	.	75	.	.	.
23	E2	9	-342	344	.	.	.	.	.	130	.	.	.
24	E2	10	-354	356	.	.	.	.	.	129	.	.	.
25	E2	11	-356	358	.	.	.	.	.	97	.	.	.
26	E2	12	-353	355	.	.	.	.	.	78	.	.	.
27	E2	13	-357	359	.	.	.	.	.	75	.	.	.
28	E2	14	-378	380	.	.	.	.	.	63	.	.	.
29	E2	15	-408	409	.	.	.	.	.	173	.	.	.
30	E3	2	-419	420	.	.	.	.	.	43	.	.	.
31	E3	3	-450	451	.	.	.	.	.	43	450	.	1
32	E3	4	-455	456	.	.	.	.	.	164	.	.	.
33	E3	5	-454	455	.	.	.	.	.	83	.	.	.
34	E3	6	-483	484	.	.	.	.	.	92	484	.	1
35	E3	7	-508	508	.	.	.	.	.	112	.	.	.
36	E3	8	-558	558	.	.	.	.	.	106	559	.	2
37	E3	9	-665	664	.	.	.	.	.	104	.	.	.
38	E3	10	-674	673	.	.	.	.	.	106	675	.	2
39	E3	11	-701	700	.	.	.	.	.	106	699	.	3
40	E4	2	-253	256	255	-1	1	977	.	65	255	.	1
41	E4	3	-624	623	624	1	1	998	.	95	624	.	1
42	E4	4	-479	480	480	.	1	984	.	98	480	.	1

METHOD: E237 FILENAME: CN049813B11 DATE: 05/09/85
SHIFT STD: CT850509A11 TIME: 19:52

	COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*	BROMOCHLOROMETHANE (IS)	57524.	59680.	-3.	PASS
*	1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	302767.	309280.	-1.	PASS
*	D5 CHLORDBENZENE(INTERNAL STANDARD)	312492.	322431.	-2.	PASS

QUANTITA

DATA: CN049813B11.TI
05/09/85 19:52:00
SAMPLE: SML SAMPLE #49813 CASE# GEN.TEST, EPA # 8270C
DE.:
SUBMITTED BY: 11 ANALYST: 719

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	202	10:16	1	1.000	A BV	57525.	50.000 UG/L	15.20
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
	64	NOT FOUND							
	84	142	7:13	1	0.703	A BB	8638.	4.470 UG/L	1.36
7	43	153	7:47	1	0.757	A BB	4095.	12.854 UG/L	3.91
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	242	12:18	1	1.198	A BB	357.	0.113 UG/L	0.03
13	62	NOT FOUND							
14	114	405	20:35	14	1.000	A BV	302768.	50.000 UG/L	15.20
15	72	NOT FOUND							
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	NOT FOUND							
26	75	NOT FOUND							
27	63	NOT FOUND							
28	173	NOT FOUND							
29	117	506	25:43	29	1.000	A BV	312493.	50.000 UG/L	15.20
30	43	NOT FOUND							
	43	450	22:52	29	0.889	A BB	396.	0.591 UG/L	0.18
32	164	NOT FOUND							
33	83	NOT FOUND							
34	92	484	24:36	29	0.957	A BS	1698.	0.428 UG/L	0.13
35	112	NOT FOUND							
36	106	559	28:25	29	1.105	A*BB	1111.	0.335 UG/L	0.10
37	104	NOT FOUND							
38	106	675	34:19	29	1.334	A*BV	4647.	1.020 UG/L	0.31
39	106	699	35:32	29	1.381	A*VV	2526.	0.640 UG/L	0.19
40	65	255	12:58	1	1.262	A BV	115214.	48.985 UG/L	14.89
41	95	624	31:43	29	1.233	A BB	327195.	54.117 UG/L	16.45
42	98	480	24:24	1	2.376	A BV	371899.	55.412 UG/L	16.85

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05		10.000			50.00		1.788	
3	3:03		10.000			50.00		2.014	
4	3:52		10.000			50.00		1.752	
5	4:50		10.000			50.00		0.978	
6	6:58	1.04	5.000	0.14	4.47	50.00	0.150	1.680	0.09
7	7:31	1.03	10.000	0.08	12.85	50.00	0.071	0.277	0.26
8	8:29		5.000			50.00		2.546	
9	9:39		5.000			50.00		1.075	
10	10:56		5.000			50.00		1.983	
11	11:41		5.000			50.00		1.153	
12	12:12	1.01	5.000	0.24	0.11	50.00	0.006	2.753	0.00
13	12:58		5.000			50.00		1.914	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

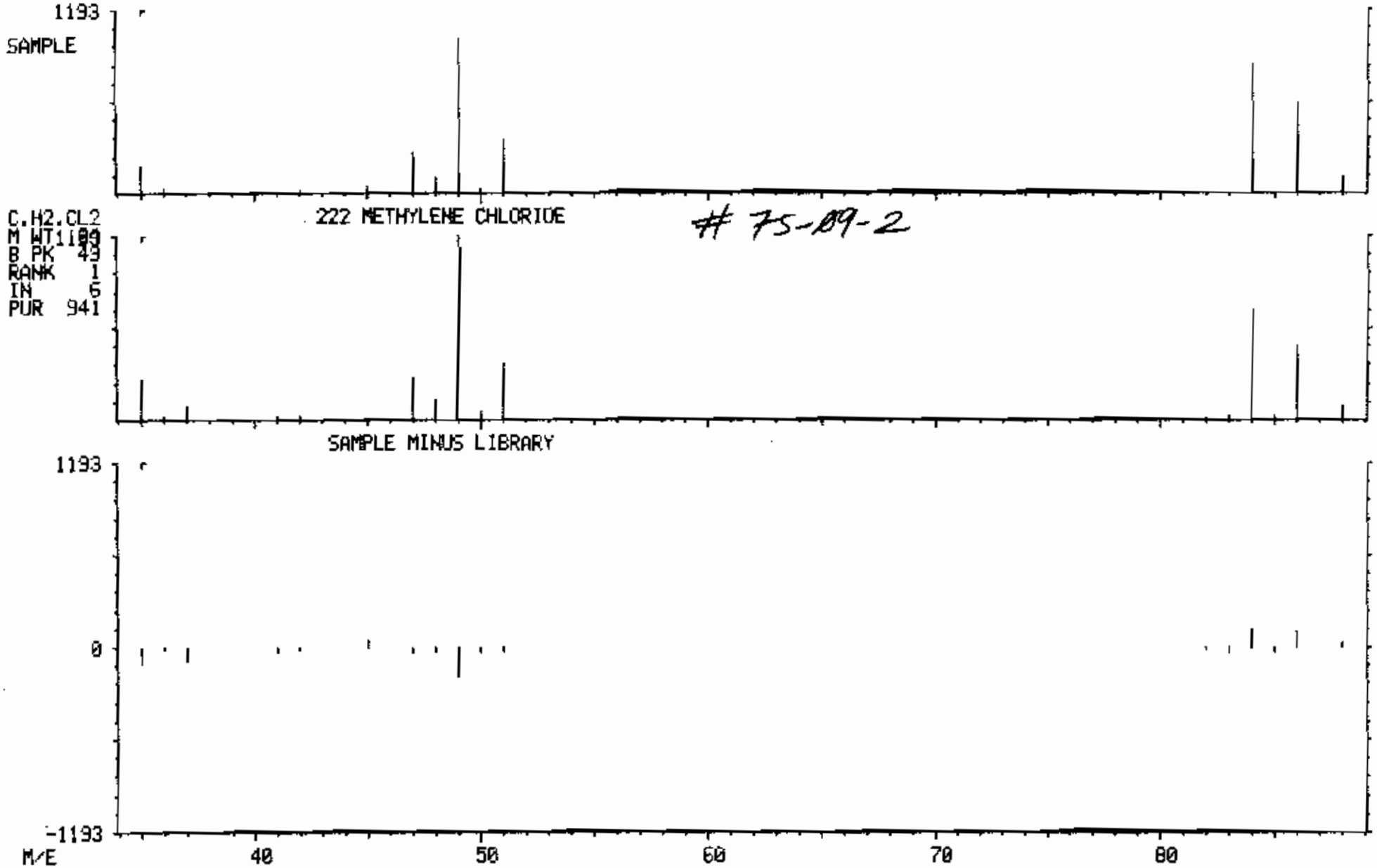
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52		10.000			50.00		0.019	
16	14:17		5.000			50.00		0.416	
17	14:41		5.000			50.00		0.421	
	14:48		10.000			50.00		0.302	
19	15:09		5.000			50.00		0.484	
20	16:34		5.000			50.00		0.280	
21	16:50		5.000			50.00		0.181	
22	17:23		5.000			50.00		0.432	
23	18:00		5.000			50.00		0.478	
24	18:06		5.000			50.00		0.296	
25	17:57		5.000			50.00		0.827	
26	18:09		5.000			50.00		0.622	
27	19:13		10.000			50.00		0.122	
28	20:44		5.000			50.00		0.305	
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.174	
31	22:52	1.00	10.000	0.09	0.59	50.00	0.001	0.107	0.01
32	23:08		5.000			50.00		0.437	
33	23:05		5.000			50.00		0.403	
34	24:33	1.00	5.000	0.19	0.43	50.00	0.005	0.635	0.01
35	25:49		5.000			50.00		0.972	
36	28:22	1.00	5.000	0.22	0.34	50.00	0.004	0.530	0.01
37	33:48		5.000			50.00		1.075	
38	34:16	1.00	5.000	0.27	1.02	50.00	0.015	0.729	0.02
39	35:38	1.00	5.000	0.28	0.64	100.00	0.004	0.631	0.01
40	12:52	1.01	10.000	0.13	48.98	50.00	2.003	2.044	0.98
41	31:43	1.00	10.000	0.12	54.12	50.00	1.047	0.967	1.08
42	24:21	1.00	10.000	0.24	55.41	50.00	6.465	5.834	1.11

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 19:52:00 + 7:13
SAMPLE: 5ML SAMPLE #49813 CASE# GEN.TEST
ENHANCED (S 15B 2N 0T)

DATA: CN049813B11 # 142
BASE M/E: 49
RIC: 9967.

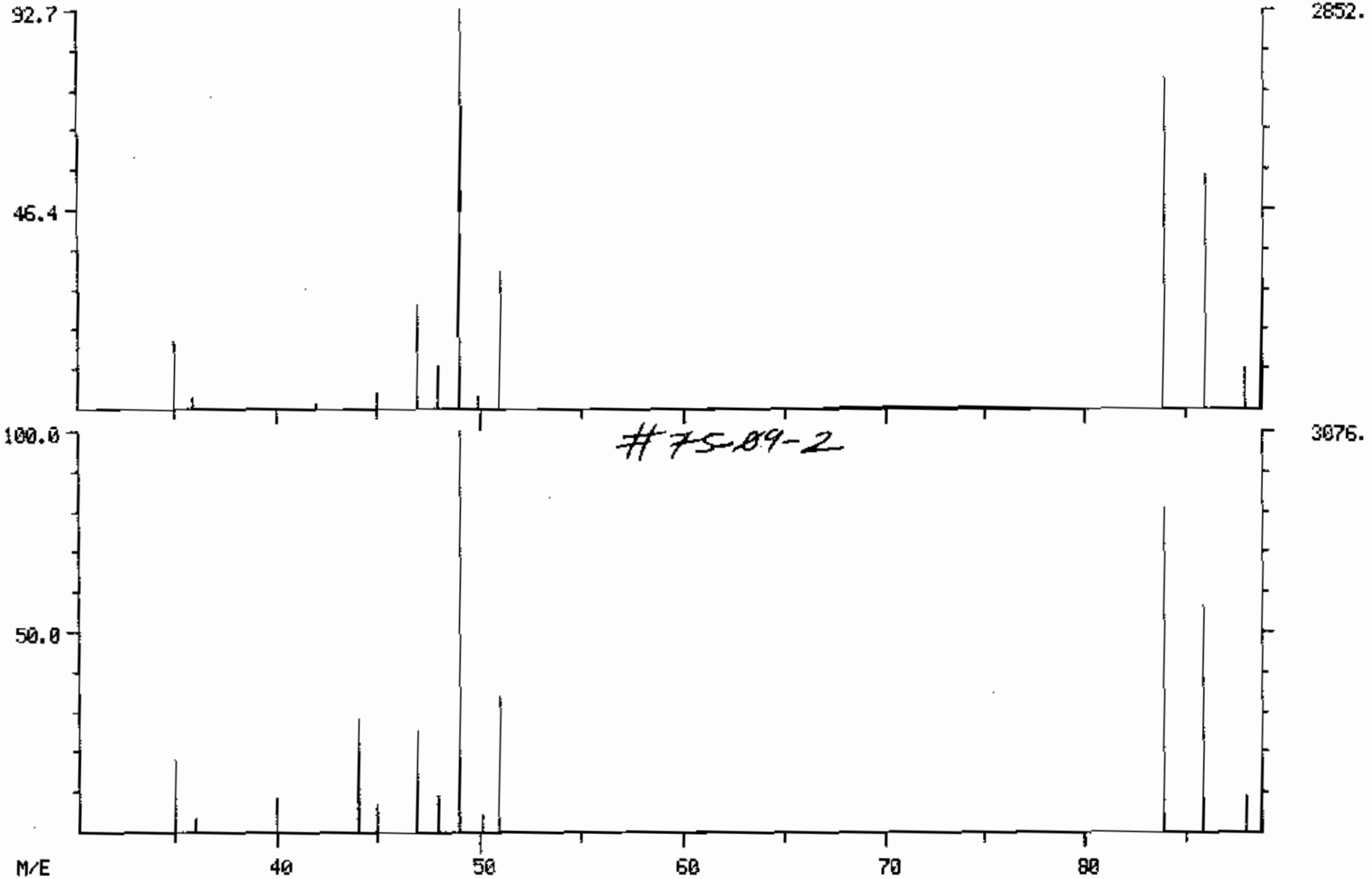
EPA # 50705



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 19:52:00 + 7:13
SAMPLE: 5ML SAMPLE #43813 CASE# GEN.TEST EPA # 5070SC
ENHANCED (S 15B 2N)

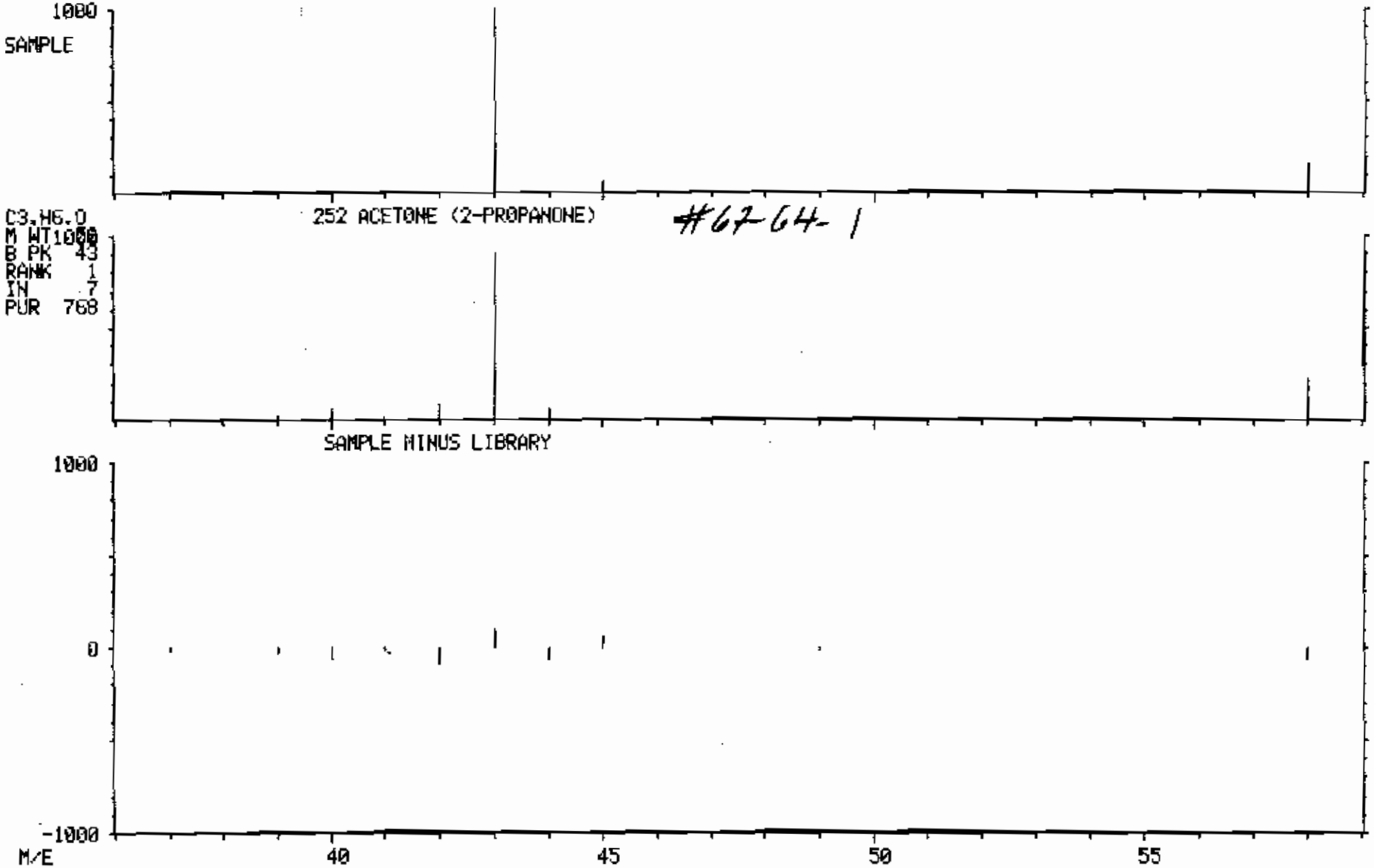
DATA: CN043813B11 #142 BASE M/E: 49/ 49
RIC: 9967./ 11791.



COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 19:52:00 + 7:47
SAMPLE: 5ML SAMPLE #49813 CASE# GEN.TEST , EPA # 5070SC
ENHANCED (S 15B 2N 0T)

DATA: CN049813B11 # 153
BASE M/E: 43
RIC: 1027.

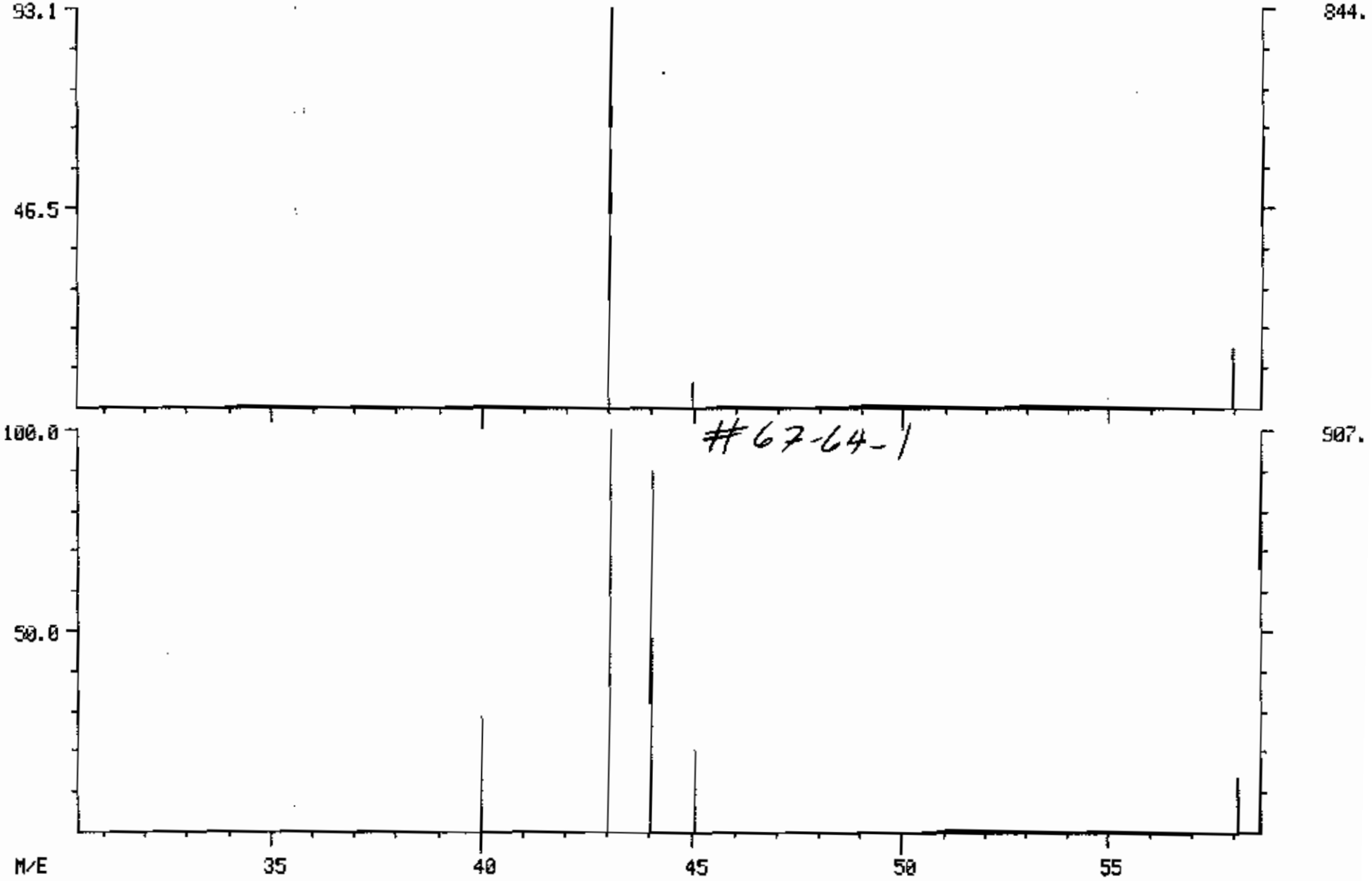


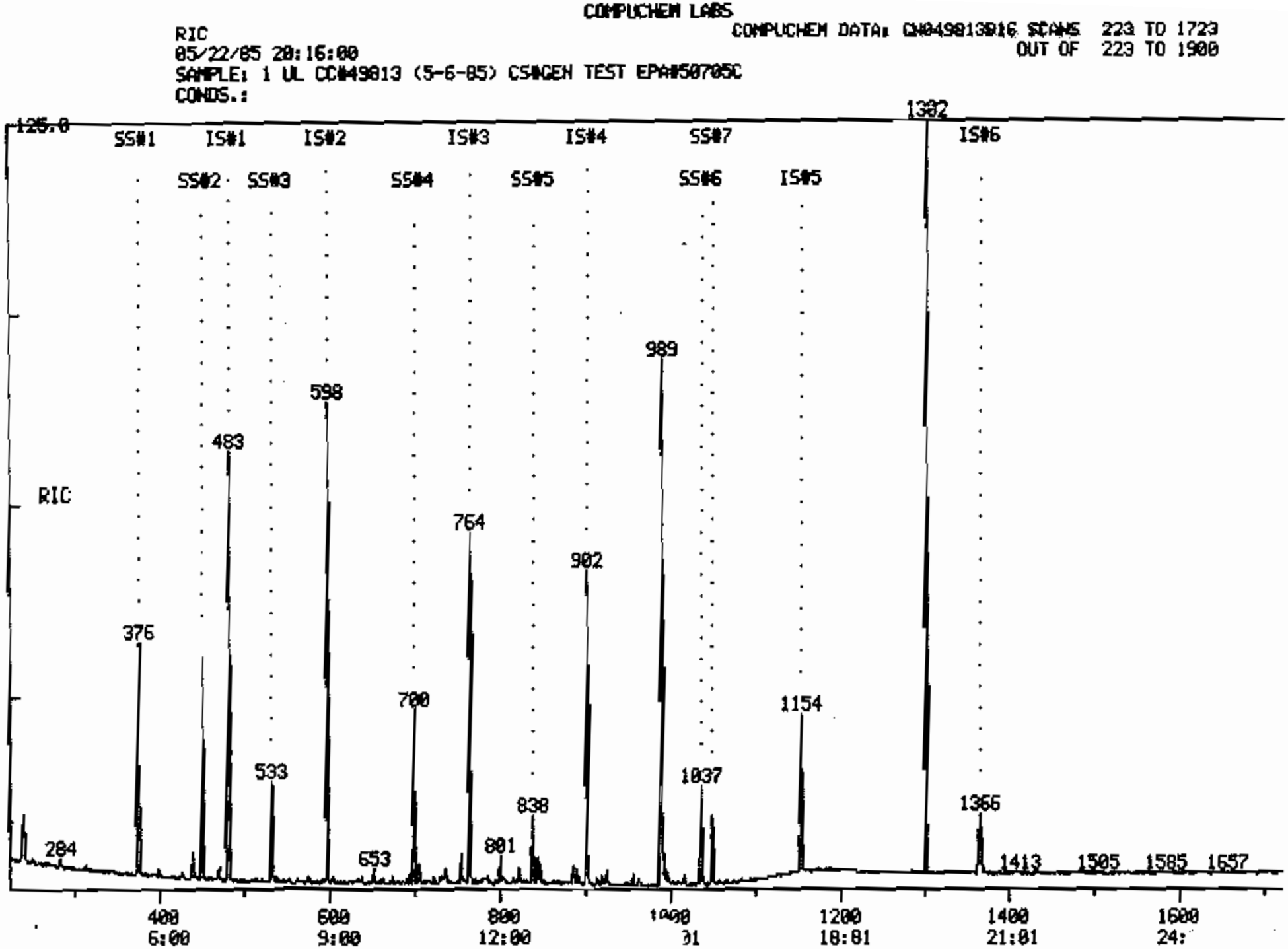
252

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 19:52:00 + 7:47
SAMPLE: 5ML SAMPLE #49813 CASE# GEN.TEST EPA # 5070 5 Soil
ENHANCED (S 150 2N)

DATA: CN049813B11 #153 BASE M/E: 43/ 43
RIC: 1027./ 2291.




COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN049013916 SCANS 223 TO 1723
05/22/85 20:16:00
OUT OF 223 TO 1900
SAMPLE: 1 UL CC#49013 (5-6-85) CSAGEN TEST EPA#507050
CONDS.:
125.0
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
1302
989
598
483
RIC
764
902
376
700
1154
533
1037
838
1366
284
653
801
1413
1505
1585
1657
400
6:00
600
9:00
800
12:00
1000
31
1200
18:01
1400
21:01
1600
24:

COMPUCHEM LABS

RIC

COMPUCHEM DATA: CH049013B16 SCANS 1723 TO 1900

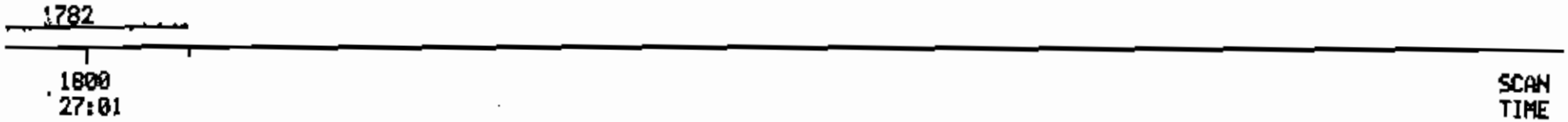
05/22/85 20:16:00

OUT OF 223 TO 1980

SAMPLE: 1 UL CC#49813 (5-6-85) CS#GEN TEST EPA#50705C

CONDS.:

20930500.



PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 22:14:33
DATA FILE: 9H049813B16
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

< ---- STANDARDS ----- >< --- PLUS UNKNOWNS --- >< - LIST NAMES - >								
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	43	53	8	1	69	SEMI1S1/SEMI1U1
4	4	1	69	29	10	1	66	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 17 FOUND

< COMPOUND >< ---------- SEARCH ---------- >< SAT >< ----- CHRO ------ >													
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	G1	1	-475	483	483	.	1	942	.	152	483	.	2
2	G2	1	-590	598	595	.	1	975	.	136	598	.	1
3	G3	1	-756	764	764	.	1	983	.	164	764	.	1
4	G7	2	-369	376	376	.	1	904	.	112	376	.	1
5	G1	2	-253	261	.	.	.	.	.	42	262	.	2
6	G1	3	-445	453	.	.	.	.	.	94	453	.	1
7	G1	4	-449	457	.	.	.	.	.	93	.	.	.
8	G1	5	-454	462	.	.	.	.	.	93	.	.	.
9	G1	6	-459	467	.	.	.	.	.	128	467	.	1
10	G1	7	-471	479	.	.	.	.	.	146	.	.	.
11	G1	8	-476	484	.	.	.	.	.	146	.	.	.
12	G1	9	-487	495	.	.	.	.	.	108	.	.	.
13	G1	10	-492	500	.	.	.	.	.	146	.	.	.
14	G1	11	-497	505	.	.	.	.	.	108	.	.	.
15	G1	12	-502	510	.	.	.	.	.	45	.	.	.
6	G1	13	-510	518	.	.	.	.	.	108	.	.	.
7	G1	14	-513	521	.	.	.	.	.	70	.	.	.
18	G1	15	-520	528	.	.	.	.	.	117	.	.	.
19	G1	16	-527	535	.	.	.	.	.	77	533	.	1
20	G2	2	-548	556	.	.	.	.	.	82	553	.	2
21	G2	3	-556	564	.	.	.	.	.	139	.	.	.
22	G2	4	-558	566	.	.	.	.	.	122	.	.	.
23	G2	5	-565	573	.	.	.	.	.	122	.	.	.
24	G2	6	-567	575	.	.	.	.	.	93	.	.	.
25	G2	7	-577	585	.	.	.	.	.	162	.	.	.
26	G2	8	-586	594	.	.	.	.	.	180	.	.	
27	G2	9	-592	600	.	.	.	.	.	128	.	.	
28	G2	10	-597	605	.	.	.	.	.	127	.	.	.
29	G2	11	-608	616	.	.	.	.	.	225	.	.	.
30	G2	12	-640	648	.	.	.	.	.	107	649	.	1
31	G2	13	-656	664	.	.	.	.	.	142	664	.	1
32	G3	2	-677	685	.	.	.	.	.	237	.	.	.
33	G3	3	-687	695	.	.	.	.	.	196	.	.	.
34	G3	4	-687	695	.	.	.	.	.	196	.	.	.
35	G3	5	-702	710	.	.	.	.	.	162	.	.	.
36	G3	6	-713	721	.	.	.	.	.	65	719	.	1
37	G3	7	-732	740	.	.	.	.	.	163	.	.	.
38	G3	8	-742	750	.	.	.	.	.	152	751	.	1
39	G3	9	-751	759	.	.	.	.	.	138	.	.	.
40	G3	10	-759	767	.	.	.	.	.	153	767	.	1
41	G3	11	-761	769	.	.	.	.	.	184	.	.	.
2	G3	12	-764	772	.	.	.	.	.	139	772	.	1
43	G3	13	-774	782	.	.	.	.	.	168	.	.	.
44	G3	14	-775	783	.	.	.	.	.	89	.	.	.
45	G3	15	-739	747	.	.	.	.	.	165	.	.	.
46	G3	16	-798	806	.	.	.	.	.	149	806	.	1
47	G3	17	-805	813	.	.	.	.	.	204	.	.	.
48	G3	18	-806	814	.	.	.	.	.	166	814	.	1

50	07	3	-444	452	452	.	1	908	.	99	452	.
51	07	4	-525	533	533	.	1	953	.	82	533	.
52	07	5	-691	699	700	1	1	950	.	172	700	.
53	07	6	-831	839	838	-1	1	929	.	141	838	.
54	04	1	-895	902	902	.	1	956	.	188	902	.
55	05	1	-1147	1155	1154	-1	1	926	.	240	1154	.
56	06	1	-1357	1366	1366	.	1	981	.	264	1366	.
57	04	2	-814	821	.	.	.	.	.	198	.	.
58	04	3	-816	823	824	1	1	798	.	169	824	.
59	04	4	-851	858	.	.	.	.	.	248	.	.
60	04	5	-866	873	.	.	.	.	.	284	.	.
61	04	6	-881	888	.	.	.	.	.	266	.	.
62	04	7	-897	904	.	.	.	.	.	178	904	.
63	04	8	-901	908	.	.	.	.	.	178	.	.
64	04	9	-949	956	957	1	1	939	.	149	957	.
65	04	10	-1009	1017	1017	.	1	930	.	202	1017	.
66	05	2	-1019	1027	.	.	.	.	.	184	.	.
67	05	3	-1031	1039	1038	-1	1	940	.	202	1038	.
68	05	4	-1089	1097	.	.	.	.	.	149	1098	.
69	05	5	-1140	1148	.	.	.	.	.	252	.	.
70	05	6	-1145	1153	.	.	.	.	.	228	.	.
71	05	7	-1145	1153	.	.	.	.	.	149	1151	.
72	05	8	-1150	1158	.	.	.	.	.	228	.	.
73	06	2	-1219	1227	.	.	.	.	.	149	1225	.
74	06	3	-1294	1302	.	.	.	.	.	252	.	.
75	06	4	-1294	1302	.	.	.	.	.	252	.	.
76	06	5	-1347	1355	.	.	.	.	.	252	.	.
77	06	6	-1607	1616	.	.	.	.	.	276	.	.
78	06	7	-1611	1620	.	.	.	.	.	278	.	.
79	06	8	-1683	1692	.	.	.	.	.	276	.	.
80	07	7	-1043	1051	1050	-1	1	985	.	244	1050	.
81	08	2	-1029	1037	1037	.	1	979	.	212	1037	.

INTERNAL STANDARD AREA MONITOR

METHOD: 8EMI1 FILENAME: GH049813B16 DATE: 05/22/85.
SHIFT STD: HH850522A16 TIME: 20:16

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLORLBENZENE (IS#1)	1679420.	2259450.	-25.	PASS
*460 D8-NAPHTHALENE (IS#2)	6121880.	8288830.	-25.	PASS
*495 D10-ACENAPHTHENE (IS#3)	2419350.	3170550.	-23.	PASS
*467 D10-PHENANTHRENE (IS#4)	3029790.	3680950.	-17.	PASS
*459 D12-CHRYSENE (IS#5)	1396920.	1553050.	-9.	PASS
*497 D12-PERYLENE (IS#6)	1234170.	1156030.	7.	PASS

5/22/85.

QUANTITATIO

DATA: QH049813B16.TI
05/22/85 20:16:00
SAMPLE: 1 UL CC#49813 (5-6-85) CS#QEN TEST EPA#50705C
METHOD:
SUBMITTED BY: 16 ANALYST: 803

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

NO	NAME
1	*494 D4-1,4-DICHLORLBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	610 PHENOL (G1#3) <108-95-2>
4	473 ANILINE (G1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
6	601 2-CHLOROPHENOL (G1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
9	474 BENZYL ALCOHOL (G1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
11	620 2-METHYLPHENOL (G1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
13	622 4-METHYLPHENOL (G1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
15	436 HEXACHLOROETHANE (G1#15) <67-72-1>
16	440 NITROBENZENE (G1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (G2#2) <78-59-1>
7	606 2-NITROPHENOL (G2#3) <88-75-5>
.0	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
21	625 BENZOIC ACID (G2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
25	439 NAPHTHALENE (G2#9) <91-20-3>
26	475 4-CHLOROANILINE (G2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
35	478 2-NITROANILINE (G3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
37	402 ACENAPHTHYLENE (G3#8) <208-96-8>
38	479 3-NITROANILINE (G3#9) <99-09-2>
39	401 ACENAPHTHENE (G3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (G3#11) <51-28-5>
41	607 4-NITROPHENOL (G3#12) <100-02-7>
42	476 DIBENZOFURAN (G3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
5	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
9	*467 D10-PHENANTHRENE (IS#4)
0	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
5	#619 2-FLUOROPHENOL (SS#1)
6	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENEZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	483	7:15	1	1.000	A*BB	1679420.	40.000	NG	10.18
2	42	262	3:56	1	0.542	A*VV	84824.	0.906	NG	0.23
3	94	453	6:48	1	0.938	A BB	24480.	0.201	NG	0.05
4	93	NOT FOUND								
5	93	NOT FOUND								
6	128	467	7:01	1	0.967	A BB	4448.	0.063	NG	0.02
7	146	NOT FOUND								
8	146	NOT FOUND								
9	108	NOT FOUND								
10	146	NOT FOUND								
11	108	NOT FOUND								
12	45	NOT FOUND								
13	108	NOT FOUND								
14	70	NOT FOUND								
15	117	NOT FOUND								
16	77	533	8:00	1	1.104	A VB	6784.	0.062	NG	0.02
17	136	598	8:59	17	1.000	A BB	6121880.	40.000	NG	10.18
18	82	553	8:18	17	0.925	A*BB	11328.	0.066	NG	0.02
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
23	162	NOT FOUND								
24	180	NOT FOUND								
25	128	NOT FOUND								
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	649	9:44	17	1.085	A BB	5568.	0.107	NG	0.03
29	142	664	9:58	17	1.110	A BB	19968.	0.218	NG	0.06
30	164	764	11:28	30	1.000	A BB	2419350.	40.000	NG	10.18
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	719	10:48	30	0.941	A BB	6560.	0.158	NG	0.04
36	163	NOT FOUND								
37	152	751	11:16	30	0.983	A BB	5856.	0.048	NG	0.01
38	138	NOT FOUND								
39	153	767	11:31	30	1.004	A BB	4256.	0.049	NG	0.01
40	184	NOT FOUND								
41	139	772	11:35	30	1.010	A BB	11616.	1.000	NG	0.25
42	168	NOT FOUND								
43	89	NOT FOUND								
44	165	NOT FOUND								
45	149	806	12:06	30	1.055	A BB	67648.	0.809	NG	0.21
46	204	NOT FOUND								
47	166	814	12:13	30	1.065	A BB	7200.	0.100	NG	0.03
48	138	816	12:15	30	1.068	A BB	21120.	1.383	NG	0.35
49	188	902	13:32	49	1.000	A BV	3029790.	40.000	NG	10.18
50	198	NOT FOUND								
51	169	824	12:22	49	0.914	A*VV	62720.	1.345	NG	0.34
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	NOT FOUND								
55	178	904	13:34	49	1.002	A BB	10176.	0.109	NG	0.03
56	178	NOT FOUND								
57	149	957	14:22	49	1.061	A BV	208448.	1.864	NG	0.47
58	202	1017	15:16	49	1.127	A*BB	110624.	1.670	NG	0.43
59	240	1154	17:19	59	1.000	A BV	1396920.	40.000	NG	10.18
60	184	NOT FOUND								
61	202	1038	15:35	59	0.899	A BB	107616.	1.346	NG	0.34
62	149	1098	16:29	59	0.951	A*BB	17824.	0.535	NG	0.14
63	252	NOT FOUND								
64	228	NOT FOUND								
65	149	1151	17:17	59	0.997	A*VV	52480.	1.038	NG	0.26
66	228	NOT FOUND								
67	264	1366	20:30	67	1.000	A BB	1234170.	40.000	NG	10.18
68	149	1225	18:23	67	0.897	A*VV	35496.	0.436	NG	0.11
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
73	278	NOT FOUND								
74	276	NOT FOUND								
75	112	376	5:39	1	0.778	A VV	1965830.	22.569	NG	5.75

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	452	6:47	1	0.936	A BV	2006140.	17.059	NG	4.34
77	82	533	8:00	17	0.891	A VV	1556280.	16.118	NG	4.10
79	172	700	10:30	30	0.916	A BB	1446650.	17.641	NG	4.49
)	141	838	12:35	30	1.097	A BB	131744.	32.293	NG	8.22
80	244	1050	15:46	59	0.910	A BV	798176.	16.457	NG	4.19
81	212	1037	15:34	59	0.899	A BV	1091640.	17.192	NG	4.38

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:48	1.04	10.000	0.05	0.91	50.00	0.040	2.229	0.02
3	6:41	1.02	10.000	0.09	0.20	50.00	0.012	2.908	0.00
4	6:44		10.000			50.00		3.107	
5	6:49		10.000			50.00		2.837	
6	6:53	1.02	10.000	0.10	0.06	50.00	0.002	1.674	0.00
7	7:04		10.000			50.00		1.590	
8	7:09		10.000			50.00		1.861	
9	7:19		10.000			50.00		1.321	
10	7:23		10.000			50.00		1.485	
11	7:28		10.000			50.00		1.724	
12	7:32		10.000			50.00		6.307	
13	7:39		10.000			50.00		1.869	
14	7:42		10.000			50.00		2.362	
15	7:48		10.000			50.00		0.833	
16	7:55	1.01	10.000	0.11	0.06	50.00	0.003	2.598	0.00
17	8:51	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:14	1.01	10.000	0.09	0.07	50.00	0.001	1.120	0.00
19	8:21		10.000			50.00		0.196	
20	8:23		10.000			50.00		0.358	
1	8:29		50.000			50.00		0.151	
2	8:31		10.000			50.00		0.656	
23	8:40		10.000			50.00		0.247	
24	8:48		10.000			50.00		0.265	
25	8:53		10.000			50.00		1.025	
26	8:58		10.000			50.00		0.430	
27	9:08		10.000			50.00		0.112	
28	9:36	1.01	10.000	0.11	0.11	50.00	0.001	0.339	0.00
29	9:51	1.01	10.000	0.11	0.22	50.00	0.003	0.598	0.00
30	11:21	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:10		10.000			50.00		0.223	
32	10:19		10.000			100.00		0.308	
33	10:19		100.000			100.00		0.308	
34	10:32		10.000			50.00		1.331	
35	10:42	1.01	50.000	0.02	0.16	50.00	0.002	0.686	0.00
36	10:59		10.000			50.00		1.240	
37	11:08	1.01	10.000	0.10	0.05	50.00	0.002	2.011	0.00
38	11:16		50.000			50.00		0.290	
39	11:24	1.01	10.000	0.10	0.05	50.00	0.001	1.438	0.00
40	11:25		50.000			50.00		0.060	
41	11:28	1.01	50.000	0.02	1.00	50.00	0.004	0.192	0.02
42	11:37		10.000			50.00		1.558	
43	11:38		10.000			50.00		0.408	
44	11:06		10.000			50.00		0.245	
45	11:59	1.01	10.000	0.11	0.81	50.00	0.022	1.382	0.02
46	12:05		10.000			50.00		0.445	
7	12:06	1.01	10.000	0.11	0.10	50.00	0.002	1.196	0.00
48	12:09	1.01	50.000	0.02	1.38	50.00	0.007	0.252	0.03

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	13:26	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:13		50.000			50.00		0.080	
51	12:15	1.01	10.000	0.09	1.35	50.00	0.017	0.616	0.03
2	12:46		10.000			50.00		0.198	
53	13:00		10.000			50.00		0.227	
54	13:13		50.000			50.00		0.077	
55	13:28	1.01	10.000	0.10	0.11	50.00	0.003	1.234	0.00
56	13:31		10.000			50.00		1.146	
57	14:15	1.01	10.000	0.11	1.86	50.00	0.055	1.476	0.04
58	15:09	1.01	10.000	0.11	1.67	50.00	0.029	0.875	0.03
59	17:13	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:18		50.000			50.00		0.111	
61	15:29	1.01	10.000	0.09	1.35	50.00	0.062	2.290	0.03
62	16:21	1.01	10.000	0.10	0.54	50.00	0.010	0.954	0.01
63	17:07		20.000			50.00		0.238	
64	17:11		10.000			50.00		1.433	
65	17:11	1.01	10.000	0.10	1.04	50.00	0.030	1.448	0.02
66	17:16		10.000			50.00		1.163	
67	20:22	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:18	1.00	10.000	0.09	0.44	50.00	0.023	2.639	0.01
69	19:25		10.000			50.00		1.053	
70	19:25		10.000			50.00		1.053	
71	20:13		10.000			50.00		1.014	
72	24:07		10.000			50.00		1.070	
73	24:11		10.000			50.00		0.863	
74	25:16		10.000			50.00		0.847	
75	5:32	1.02	0.742	1.05	22.57	50.00	0.936	2.075	0.45
76	6:40	1.02	0.948	0.99	17.06	50.00	0.956	2.801	0.34
77	7:53	1.02	0.875	1.02	16.12	50.00	0.203	0.631	0.32
3	10:22	1.01	0.906	1.01	17.64	50.00	0.478	1.356	0.35
79	12:28	1.01	1.118	0.98	32.29	50.00	0.044	0.067	0.65
80	11:40	1.35	0.907	1.00	16.46	50.00	0.457	1.389	0.33
81	15:27	1.01	0.906	0.99	17.19	50.00	0.625	1.818	0.34

QUANTITATION REPORT FILE: STND

DATA: GH049813B16.TI
05/22/85 20:16:00
SAMPLE: 1 UL CC#49813 (5-6-85) CS#GEN TEST EPA#50705C
MDS.:
SUBMITTED BY: 16 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	483	7:15	2	0.808	A BB	14083300.	79.335	20.79
2	RIC	998	8:59	2	1.000	A VV	17751800.	100.000	26.21
3	RIC	764	11:28	2	1.278	A VB	14101400.	79.436	20.82
4	RIC	902	13:32	2	1.508	A BB	10955300.	59.461	15.58
5	RIC	1154	17:19	2	1.930	A VV	6303850.	35.511	9.31
6	RIC	1366	20:30	2	2.284	A VV	4935360.	27.802	7.29

QUANTITATION REPORT FILE: UNKNOWN

DATA: GH049813B16.TI
05/22/85 20:16:00
SAMPLE: 1 UL CC#49813 (5-6-85) CS#GEN TEST EPA#50705C
METHOD:
SUBMITTED BY: 16 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	240	3:36	2	0.243	A BB	3205110.	14.370	7.57
2	RIC	989	14:51	2	1.000	A BV	22303800.	100.000	52.68
3	RIC	1302	19:33	2	1.316	A VB	16827000.	75.445	39.75

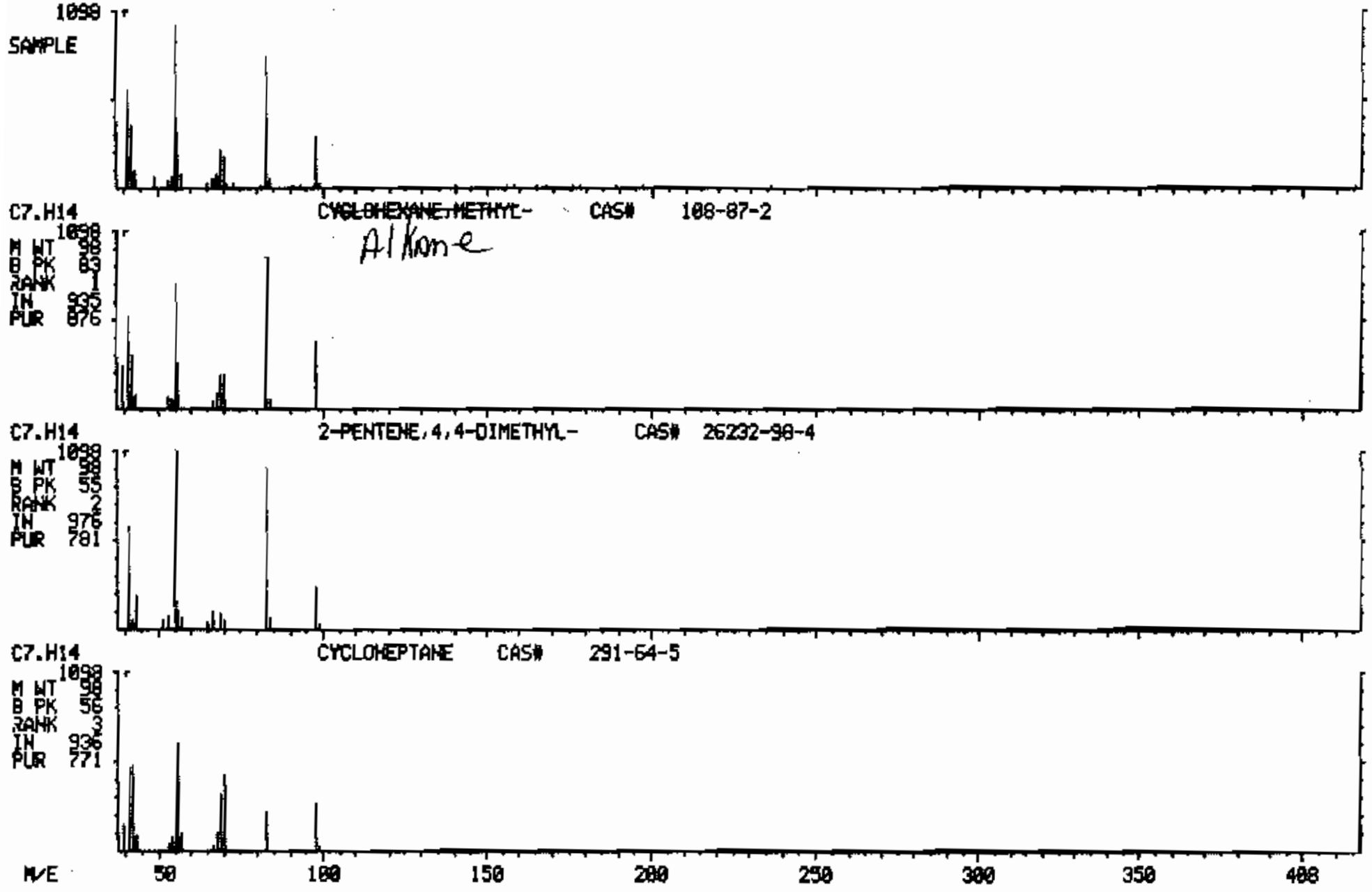
BNA D

COMPUCHEM LABS

LIBRARY SEARCH
05/22/85 20:16:00 + 3:36
SAMPLE: 1 UL CC#49813 (5-6-85) CS#GEN TEST EPA#50705C

DATA: GH049813B16 # 240
ENHANCED (100 2N 0T)

BASE M/E: 55
RIC: 1087400.



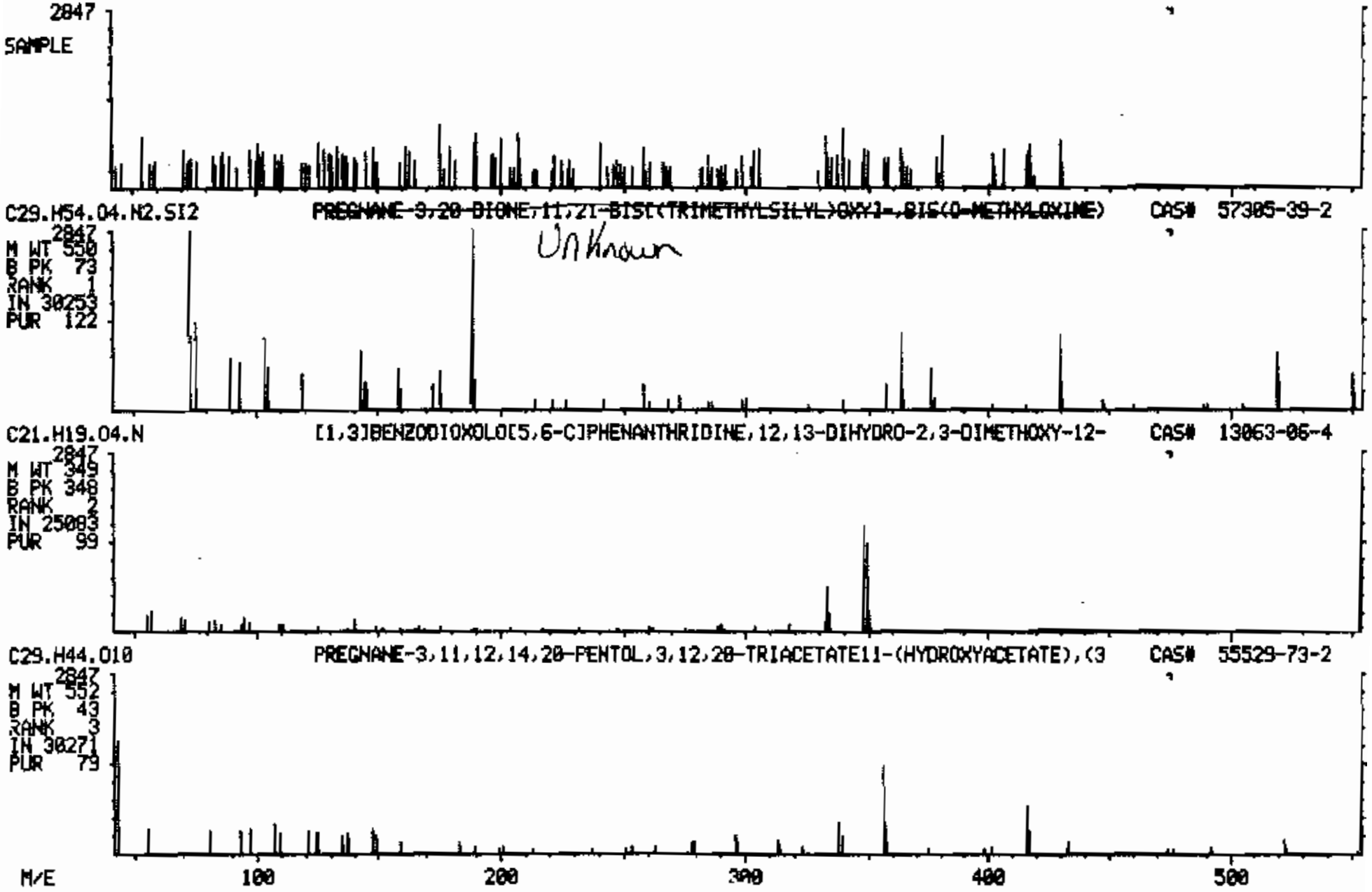
BNA-2

COMPUCHEM LABS

LIBRARY SEARCH
05/22/85 20:16:00 + 19:33
SAMPLE: 1 UL CC#49813 (5-6-85) CS#GEN TEST EPA#50705C

DATA: GH049813016 #1302
ENHANCED (100 2N 0T)

BASE M/E: 175
RIC: 16760800.



CASE#:GEN.TEST DUE DATE: 6/17/85

VOA J[ ] J3[ ] D[ ] (:1)

GC/MS WORKSHEET COMPUCHEM#: 49813 J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: 5070SC

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5.0 ul
Surrogate Standard Volume Added 5.0 ul
BFB Filename BFB05D9C11 Disk(2)
Blank Filename CFB05D9A11 Disk ( )
Standard Filename CFB05D9H11 Disk ( )
Sample Filename CN049813B11 Disk (2)

ANALYST(S): Injection 719 Work-up 719

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,HR IF,LA,DI,CQ,RN,DW,SI,SF UF,BE,OT,VC,FO,SM

Disposition: [✓] Complete
[ ] Reinject Neat
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:
"EPA" # missing from header

GC/MS Review JJH Date 5/13/85 Auditor_____ Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN049813B1 /

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

EPAWATER (11/84)

ENTERED 5/13/85 JJH

received 5/13/85

CASE#: GEN.TEST DUE DATE: 6/17/85

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 49813

J1[ ] R1[ ] D1[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SAS: EPA#: 50705C

GC/MS ANALYSIS

Volumes mixed: BN 600 ul Acid 600 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/6/85
DFTPP Filename DF850522A16 Disk (2778)
Standard Filename GH850522A16 Disk ( )
Sample Filename GH049B13A16 Disk ( )

ANALYST(S): Injection 803 Work-up 803

GC/MS REVIEW

CONDITION CODE: OC

Entry Codes OK,EA,JA, ES,AL,AN,PL,PH,FL,JS FH,HL,HH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,DT,NS ED,IF,LA,DI,CO,RN,DW,DA

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:
# of Peaks Found: 2

Quality Assurance Notice(s):
Notices Required 0

COMMENTS: GK20 5.23.85

GC/MS Review [signature] Date 5/23/85 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): GH...A16 /

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

ENTERED [signature]

EPAWATER (11/84)

received 5/23/85

(8)

VOLATILE PREP WORKSHEET

№ 1182

ASSIGNED TO Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LID	Screens S	Screens L	Screens M	Comments
49807	-57	gen test			40 mL	5-6-85	/		X		
49810	"	"	BS		40 mL.	"	/		X		
49811	"	"			40 mL.	"	/		X		
49812	"	"			40 mL.	"	/		X		
49813	"	"			40 mL.	"	/		X		
49841	"	"			40 mL.	"	/		X		
49915			B		40 mL.	5-6-85	/		X		
49916			B		40 mL.	"	/		X		
			B								

Surrogate No. 361 / 55

Amount 100 + 200 mL / mL

Lot 14367 / 14346

Extracts Received 5/6/85 BD

Schedule Reference

Manual Counter 286 / 296

Issued 5/7 PM

(D)

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Cyril (OK H)

DATE ASSIGNED 5/6/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49804	-56	Gen. Test		BS		500 ml		0.5 ml	0.5 ml		13	1	5/6	Diluted samples w/ 500 ml extra H2O added and 250 µl surrogates added
49805		Gen Test		SS	49803	500 ml		0.5 ml	0.5 ml		13	1	5/6	Use 49803, *use 500 ml
49806		Gen Test		SS	49803	500 ml		0.5 ml	0.5 ml		13	1	5/6	
49803		Gen Test	50705H			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49811			50705F			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49812			50705B			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49813			50705C			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49814		↓	T/BLK #446			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49899				B		1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49900	↓			B^2		1,000 ml		1.0 ml	1.0 ml		13	1	5/6	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5 ml					
	LOT	14588					
SPIKE	NO.		3012	2021			
	AMT.		0.250 ml	0.250 ml			
	LOT		14558	14550			

Issued 5/7 pm

MANUAL COUNTER 272/445 ✓ 273/300 ✓

FINAL VOLUME VERIFIED OK (BK)

SUPERVISOR REVIEWED OK (BD)

EXTRACTS RECEIVED BY BD 5/6/85

MeCl2 17, 20, 21, 22B

№ 6070

Volatile - Medium or Low Level Liquid

	CC IO#	Lab Coe	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.4		J	5.0
7	252	___	ACETONE (2-PROPANONE)	12.8		13.0	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLORDETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/241	___	O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	49.0	50.0	98.0	77-120	X	
41		BROMOFLUOROBENZENE	54.1	50.0	108.0	85-121	X	
42		DB-TOLUENE	55.4	50.0	111.0	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	/	

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

TMP	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLORLBENZENE (IS#	483	1680000.	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	20.
610	94		PHENOL (G1#3) <108-95-2>				BDL	20.
473	93		ANILINE (G1#4) <62-53-3>				BDL	20.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	20.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	20.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	20.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	20.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	20.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	20.
412	45		BIS(2-CHLORDISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20.
436	117		HEXACHLORDETHANE (G1#15) <6				BDL	20.
440	77		NITROBENZENE (G1#16) <98-95				BDL	20.
460	136	I	D8-NAPHTHALENE (IS#2)	598	6120000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	20.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	20.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	20.
`6	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	20.
,9	128		NAPHTHALENE (G2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (G2#10) <10				BDL	20.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	20.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	20.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	764	2420000.	40.0		
435	237		HEXACHLORDCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	200.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	20.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	20.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	20.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	100.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	100.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	20.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (G3#19) <100				BDL	100.
467	188	I	D10-PHENANTHRENE (IS#4)	902	3030000.	40.0		
4	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
-43	169		N-NITROSODIPHENYLAMINE (G4#				BDL	20.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	100.

CMP	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	20.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20.
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20.
459	240	I	D12-CHRYSENE (IS#5)	1154	1400000.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>				BDL	100.
445	202		PYRENE (G5#3) <129-00-0>				BDL	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1366	1230000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20.
619	112	S	2-FLUOROPHENOL (SS#1)			22.6	45.0%	
612	99	S	D5-PHENOL (SS#2)			17.0	34.0%	
447	82	S	D5-NITROBENEZENE (SS#3)			16.1	64.0%	
9	172	S	2-FLUOROBIPHENYL (SS#4)			17.6	70.0%	
3	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			32.3	64.0%	
496	244	S	D14-TERPHENYL (SS#7)			16.4	66.0%	
471	212	S	D10-PYRENE (SS#6)			17.2	69.0%	
CHECKSUMS:								
6593.	2206			3267	15880000.	379.2	412.0	

5/22/85

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	22.6	50.0	45.0	23-121	X	
76	612	D5-PHENOL (SS#2)	17.0	50.0	34.0	15-103	X	
77	447	D5-NITROBENEZENE (SS#3)	16.1	25.0	64.0	41-120	X	
78	448	2-FLUOROBIPHENYL (SS#4)	17.6	25.0	70.0	44-119	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	32.3	50.0	64.0	10-130	X	
80	496	D14-TERPHENYL (SS#7)	16.4	29.0	66.0	33-128	X	
81	471	D10-PYRENE (SS#6)	17.2	25.0	69.0	33-128*	X	

* ADVISORY SURROGATE ONLY

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

5/22/85

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{1000\ \text{ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{1.0\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1000.\text{ML}}{1000.\text{ML}} \times \frac{1.0}{1} \times 2 = 2.000$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{500\ \text{UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{500\ \text{UL}}{500\ \text{UL}} \times \frac{1.0\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1.0}{1} \times 2 = 2.000$$

QUALITY ASSURANCE NOTICE
sample # 49813
fraction S.V

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 989 _____ _____ _____ _____ _____

QAN10S
850218

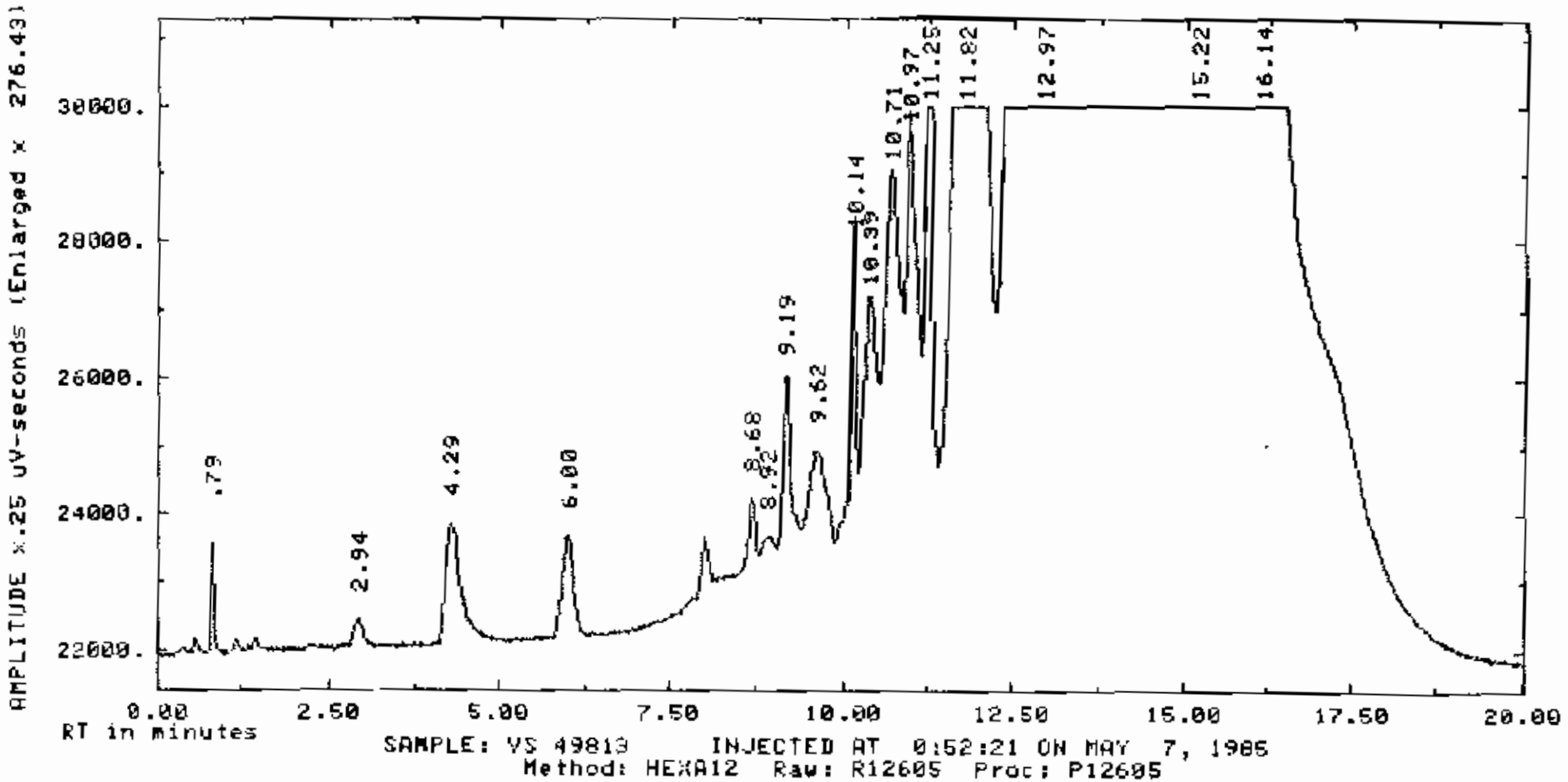
GC SCREEN DATA SHEET

Laboratory Name CompuChem

Case Number Gen. Test

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
50705C Cc# 49812	VOA B/N/A Pesticides Dioxin	NO	5785	L
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			

*Answer Yes or No.
**Indicate "M" for medium level GC/MS analysis.
Indicate "L" for low level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 276.43)
30000.
28000.
26000.
24000.
22000.
.79
2.94
4.29
6.00
8.68
8.92
9.19
9.62
10.14
10.39
10.71
10.97
11.25
11.82
12.97
15.22
16.14
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 49813 INJECTED AT 0:52:21 ON MAY 7, 1985
Method: HEXA12 Raw: R12605 Proc: P12605

Report: 4059.00 Channel: 12

Sample: VS 49813 Injected at 0:52:21 ON MAY 7, 1985

RO Method: HEXA12 Seq: SEQ126 Subsq/Samp: 1/ 5 Btl: 5

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.017 minutes

Signal) 1 volt
Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.79	0.00	.10000E+01	2310.	BB	.003	
2.94	0.00	.10000E+01	1296.	BB	.001	
4.29	0.00	.10000E+01	11124.	BB	.013	
6.00	0.00	.10000E+01	8537.	BB	.010	
8.68	0.00	.10000E+01	5259.	BH	.006	
8.92	0.00	.10000E+01	4095.	HH	.005	
9.19	0.00	.10000E+01	15036.	HH	.017	
9.62	0.00	.10000E+01	19240.	HH	.022	
10.14	0.00	.10000E+01	19278.	HH	.022	
10.39	0.00	.10000E+01	29739.	HH	.034	
10.71	0.00	.10000E+01	49034.	HH	.056	
10.97	0.00	.10000E+01	41330.	HH	.047	
11.25	0.00	.10000E+01	40744.	HH	.046	
11.82	0.00	.10000E+01	273221.	HH	.309	
12.97	0.00	.10000E+01	87496192.	HS	99.087	
5.22	0.00	.10000E+01	165021.	TV	.187	
6.14	0.00	.10000E+01	120893.	VT	.137	

Total Area = 88302352. Total AREA % = 120892.750

Processed data file: P12605 Raw data file: R12605

III. SAMPLE DATA PACKAGE

CASE NO. Dan. Lot May 1985 Water

SAMPLE NO. 50705A = COMPUCHEM NO. 49803
Site No. 3

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
3. Raw Oata — in order: VOA, BNA, Pesticide

1. **HSL Results — Organic Analysis Data Sheets (Form I)**

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705A

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CM049803B12
Sample matrix: liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601 PLATINUM
Date Sample
Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-09-85
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.0	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	7.5		127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	2.8	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705A

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-06-85
Date analyzed: 05-22-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorphenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phtbalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronapthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

2. GC/MS Tentative ID (Form I, Part B)

(Form 1, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
50705A

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER 50705A

COMPUCHEM FILE CH049003B16

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	108-87-2	CYCLOHEXANE,METHYL- Alkane	SEMI1	241	16.	J
2	38239-27-9	ETHENAMINE,N-METHYLENE- unknown	SEMI1	971	36.	J
3	629-74-3	1-HEXADECYNE Aliphat	SEMI1	990	54.	J

2.000 40.00

SPECTROSCOPIST _____

DATE 5/29/15

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

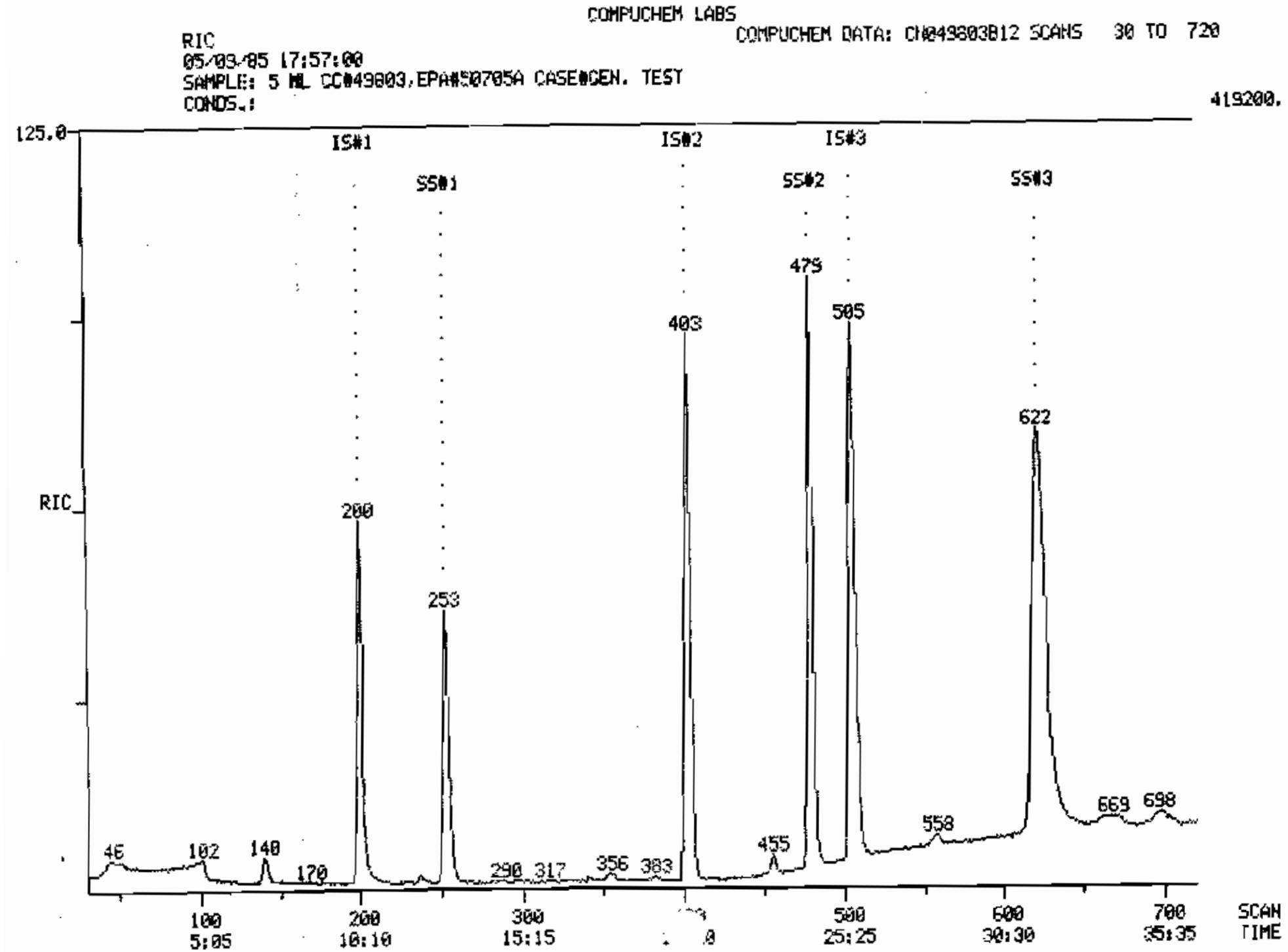
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
COMPUCHEM DATA: CH049803B12 SCANS 30 TO 720
RIC
05/03/85 17:57:00
SAMPLE: 5 ML CC#49803,EPA#50705A CASE#GEN. TEST
CONDS.:
419200.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
505
403
622
RIC
200
253
46
102
140
170
290
317
356
383
455
558
669
698
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RH DIAGNOSTIC REPORT 5/09/85 18:43:46
DATA FILE: CN049803012
REFERENCE: E237
METHOD: E237 INITIALIIATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	80	42	5	1	70	E237S/E237U

42 COMPOUNDS PROCESSED, 8 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-173	200	200	.	1	971	.	128	200	.	1
2	E2	1	-399	404	403	-1	1	996	.	114	403	.	1
3	E3	1	-501	505	505	.	1	978	.	117	505	.	1
4	E1	2	-34	43	.	.	.	.	.	50	.	.	.
5	E1	3	-54	62	.	.	.	.	.	94	.	.	.
6	E1	4	-69	77	.	.	.	.	.	62	.	.	.
7	E1	5	-89	97	.	.	.	.	.	64	.	.	.
8	E1	6	-131	139	140	1	1	925	.	84	140	.	1
9	E1	7	-143	151	.	.	.	.	.	43	152	.	1
10	E1	8	-162	169	.	.	.	.	.	76	171	.	1
11	E1	9	-185	192	.	.	.	.	.	96	.	.	.
12	E1	10	-210	217	.	.	.	.	.	63	216	.	1
13	E1	11	-224	231	.	.	.	.	.	96	230	.	1
14	E1	12	-234	241	.	.	.	.	.	83	240	.	1
15	E1	13	-249	256	.	.	.	.	.	62	255	.	1
16	E2	2	-247	254	.	.	.	.	.	72	253	.	1
17	E2	3	-276	282	.	.	.	.	.	97	281	.	1
18	E2	4	-284	290	.	.	.	.	.	117	289	.	1
19	E2	5	-285	291	.	.	.	.	.	43	.	.	.
20	E2	6	-293	299	.	.	.	.	.	83	298	.	1
21	E2	7	-321	327	.	.	.	.	.	63	.	.	.
22	E2	8	-326	332	.	.	.	.	.	75	.	.	.
23	E2	9	-337	343	.	.	.	.	.	130	341	.	1
24	E2	10	-349	355	.	.	.	.	.	129	354	.	1
25	E2	11	-351	357	.	.	.	.	.	97	356	.	1
26	E2	12	-347	353	.	.	.	.	.	78	352	.	1
27	E2	13	-351	357	.	.	.	.	.	75	357	.	1
28	E2	14	-373	378	.	.	.	.	.	63	.	.	.
29	E2	15	-403	408	.	.	.	.	.	173	408	.	1
30	E3	2	-414	419	.	.	.	.	.	43	419	.	1
31	E3	3	-446	451	.	.	.	.	.	43	.	.	.
32	E3	4	-451	456	.	.	.	.	.	164	456	.	1
33	E3	5	-450	455	.	.	.	.	.	83	454	.	1
34	E3	6	-479	483	.	.	.	.	.	92	483	.	1
35	E3	7	-504	508	.	.	.	.	.	112	508	.	1
36	E3	8	-553	557	.	.	.	.	.	106	557	.	1
37	E3	9	-658	661	.	.	.	.	.	104	663	.	1
38	E3	10	-667	670	.	.	.	.	.	106	671	.	1
39	E3	11	-694	697	697	.	1	951	.	106	699	2	1
40	E4	2	-247	254	253	-1	1	966	.	65	253	.	1
41	E4	3	-618	621	622	1	1	991	.	95	622	.	1
42	E4	4	-475	480	479	-1	1	988	.	98	479	.	1

INTERNAL STANDARD AREA MONITOR

METHOD: E237 FILENAME: CN049803B12 DATE: 05/09/85
SHIFT STD: CS850509B12 TIME: 17:57

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
* BROMOCHLOROMETHANE (IS)	132790.	133457.	-1.	PASS
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	303772.	312684.	-1.	PASS
* CS CHLOROBENZENE(INTERNAL STANDARD)	463978.	467377.	0.	PASS

QUANTITATION REPORT FILE: CN049B03B12

DATA: CN049B03B12.TI
05/09/85 17:57:00
SAMPLE: 5 ML CC#49803,EPA#50705A CASE#GEN. TEST
MDS. :
SUBMITTED BY: 12 ANALYST: 890

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
3	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLORDETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENIENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	200	10:10	1	1.000	A BB	132791.	50.000 UG/L	15.02
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	140	7:07	1	0.700	A BB	12028.	4.041	UG/L	1.21
7	43	152	7:44	1	0.760	A BB	1949.	3.392	UG/L	1.02
8	76	171	8:42	1	0.855	A BB	1T24.	0.207	UG/L	0.06
9	96	NOT FOUNO								
10	63	216	10:59	1	1.080	A BB	966.	0.196	UG/L	0.06
11	96	230	11:41	1	1.150	A BB	1185.	0.414	UG/L	0.12
12	83	240	12:12	1	1.200	A BB	1592.	0.248	UG/L	0.07
13	62	255	12:58	1	1.275	A BB	30905.	7.507	UG/L	2.26
14	114	403	20:29	14	1.000	A BV	503973.	50.000	UG/L	15.02
15	72	253	12:52	14	0.628	A BB	1038.	4.190	UG/L	1.26
16	97	281	14:17	14	0.697	A BB	1129.	0.217	UG/L	0.07
17	117	289	14:41	14	0.717	A BB	1247.	0.227	UG/L	0.07
18	43	NOT FOUND								
19	83	298	15:09	14	0.739	A BB	1392.	0.232	UG/L	0.07
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	341	17:20	14	0.846	A BB	2070.	0.419	UG/L	0.13
23	129	354	18:00	14	0.878	A BB	2564.	0.470	UG/L	0.14
24	97	356	18:06	14	0.883	A BB	1634.	0.335	UG/L	0.16
25	78	352	17:54	14	0.873	A BV	5193.	0.762	UG/L	0.23
26	75	357	18:09	14	0.886	A BB	3780.	0.588	UG/L	0.18
27	63	NOT FOUND								
28	173	408	20:44	14	1.012	A BB	3918.	0.832	UG/L	0.25
29	117	505	25:40	29	1.000	A BB	465979.	50.000	UG/L	15.02
30	43	419	21:18	29	0.830	A BB	3051.	1.132	UG/L	0.34
31	43	NOT FOUND								
32	164	456	23:11	29	0.903	A BB	3565.	0.711	UG/L	0.21
33	83	454	23:05	29	0.899	A BV	6516.	1.440	UG/L	0.43
34	92	483	24:33	29	0.956	A BB	4305.	0.790	UG/L	0.24
35	112	508	25:49	29	1.006	A BV	9773.	1.102	UG/L	0.33
36	106	557	28:19	29	1.103	A BB	5313.	1.125	UG/L	0.34
37	104	663	33:42	29	1.313	A BB	15726.	1.377	UG/L	0.41
38	106	671	34:07	29	1.329	A BB	8876.	1.391	UG/L	0.42
39	106	699	35:32	29	1.384	A BB	17452.	2.844	UG/L	0.85
40	65	253	12:52	1	1.265	A BV	198915.	48.351	UG/L	14.53
41	95	622	31:37	29	1.232	A BB	360953.	48.222	UG/L	14.49
42	98	479	24:21	1	2.395	A BV	472138.	49.926	UG/L	15.00

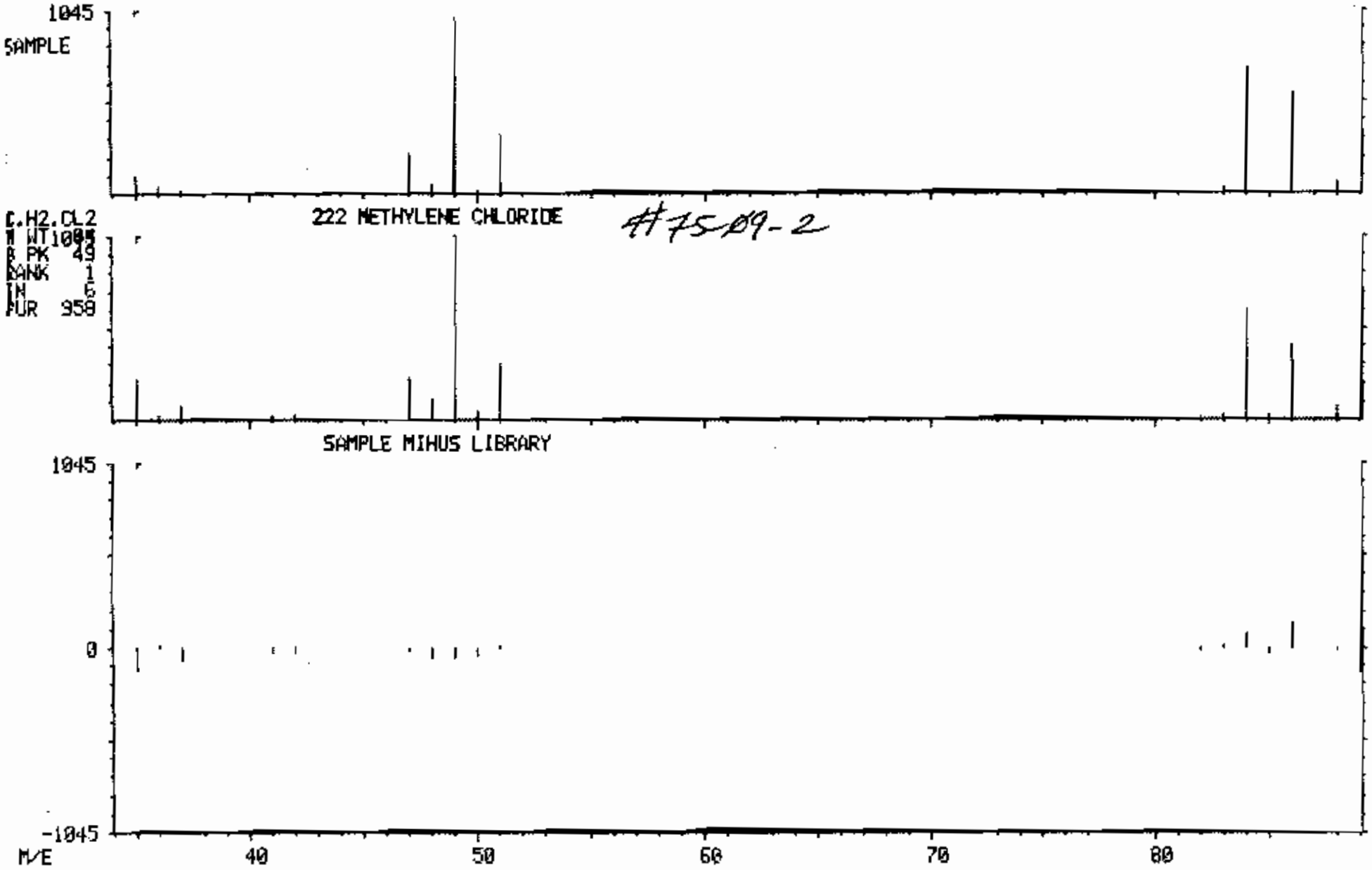
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:49	1.04	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:44		10.000			50.00		0.880	
3	2:45		10.000			50.00		1.474	
4	3:30		10.000			50.00		1.198	
5	4:31		10.000			50.00		0.626	
6	6:40	1.07	5.000	0.14	4.04	50.00	0.091	1.121	0.08
7	7:16	1.06	10.000	0.08	3.39	50.00	0.015	0.216	0.07
8	8:14	1.06	5.000	0.17	0.21	50.00	0.013	3.133	0.00
9	9:24		5.000			50.00		1.062	
10	10:40	1.03	5.000	0.22	0.20	50.00	0.087	1.852	0.00
11	11:23	1.03	5.000	0.23	0.41	50.00	0.009	1.077	0.01
12	11:54	1.03	5.000	0.24	0.25	50.00	0.012	2.421	0.00
3	12:39	1.02	5.000	0.25	7.51	50.00	0.233	1.550	0.15
4	20:17	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33	1.02	10.000	0.06	4.19	50.00	0.002	0.025	0.08
16	14:02	1.02	5.000	0.14	0.22	50.00	0.002	0.515	0.00
17	14:26	1.02	5.000	0.14	0.23	50.00	0.002	0.546	0.00
3	14:29		10.000			50.00		0.417	
19	14:54	1.02	5.000	0.15	0.23	50.00	0.003	0.596	0.00
20	16:19		5.000			50.00		0.335	
21	16:34		5.000			50.00		0.234	
22	17:08	1.01	5.000	0.17	0.42	50.00	0.004	0.490	0.01
23	17:44	1.01	5.000	0.18	0.47	50.00	0.005	0.541	0.01
24	17:51	1.01	5.000	0.18	0.54	50.00	0.003	0.303	0.01
25	17:38	1.01	5.000	0.17	0.76	50.00	0.010	0.676	0.02
26	17:51	1.02	5.000	0.18	0.59	50.00	0.008	0.638	0.01
27	18:58		10.000			50.00		0.190	
28	20:29	1.01	5.000	0.20	0.83	50.00	0.008	0.467	0.02
29	25:28	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:03	1.01	10.000	0.08	1.13	50.00	0.007	0.289	0.02
31	22:40		10.000			50.00		0.188	
32	22:56	1.01	5.000	0.18	0.71	50.00	0.008	0.338	0.01
33	22:52	1.01	5.000	0.18	1.44	50.00	0.014	0.486	0.03
34	24:21	1.01	5.000	0.19	0.79	50.00	0.009	0.585	0.02
35	25:37	1.01	5.000	0.20	1.10	50.00	0.021	0.952	0.02
36	28:07	1.01	5.000	0.22	1.12	50.00	0.011	0.507	0.02
37	33:27	1.01	5.000	0.26	1.38	50.00	0.034	1.226	0.03
38	33:54	1.01	5.000	0.27	1.39	50.00	0.019	0.685	0.03
39	35:17	1.01	5.000	0.28	2.84	100.00	0.019	0.659	0.03
40	12:33	1.02	10.000	0.13	48.35	50.00	1.498	1.549	0.97
41	31:25	1.01	10.000	0.12	48.22	50.00	0.775	0.803	0.96
42	24:09	1.01	10.000	0.24	49.93	50.00	3.555	3.561	1.00

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 17:57:00 + 7:07
SAMPLE: 5 ML CC#49803,EPA#50705A CASE#GEN. TEST
ENHANCED (5 15B 2H 0T)

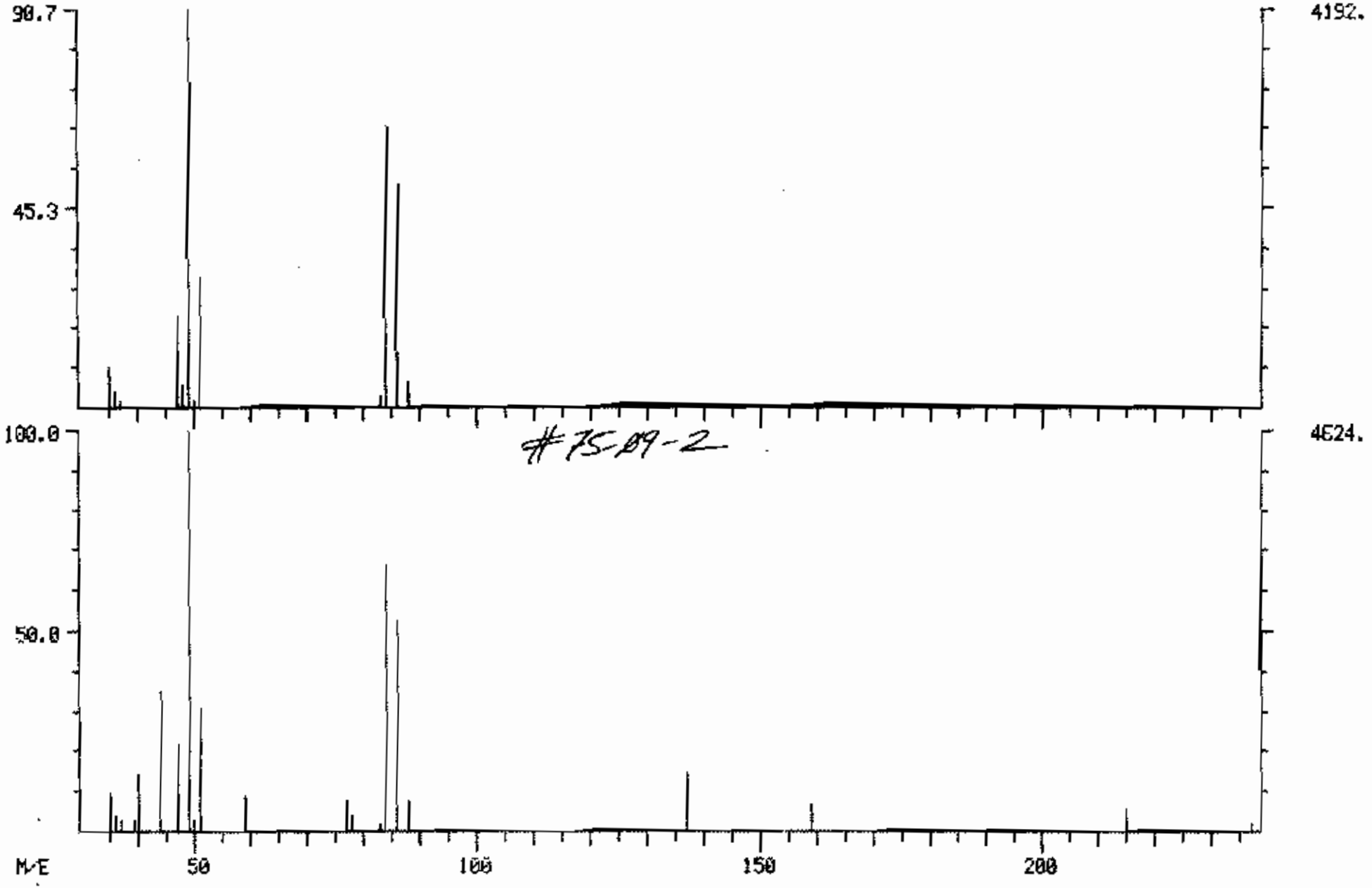
DATA: CN049803B12 # 140
BASE M/E: 43
RIC: 13113.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 17:57:00 + 7:07
SAMPLE: 5 ML CC#49803,EPA#50705A CASE#GEN. TEST
ENHANCED (S 150 2N)

DATA: CN049803B12 #140 BASE M/E: 49/ 49
RIC: 13119./ 18495.

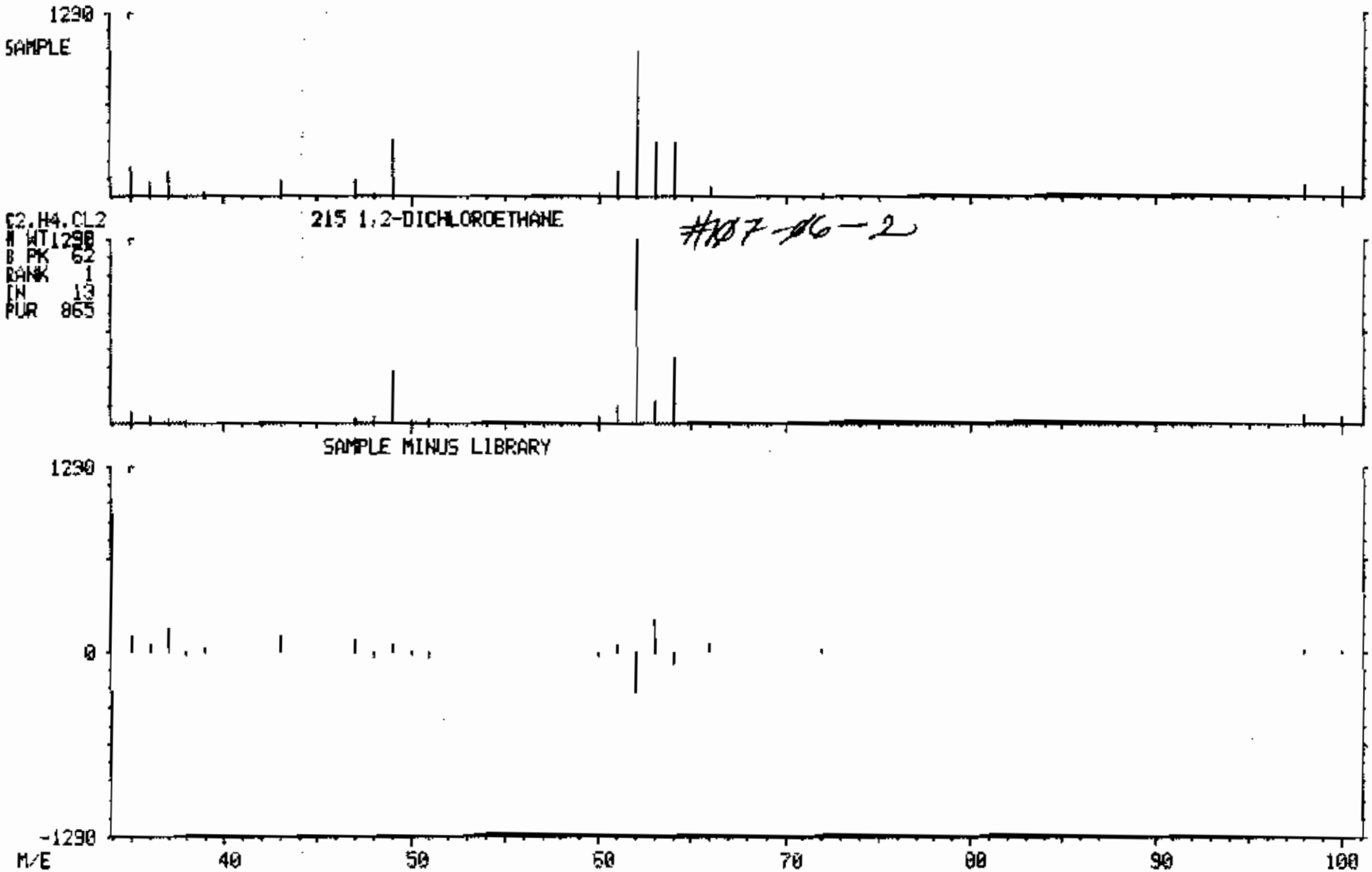


#75-09-2

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 17:57:00 + 12:58
SAMPLE: 5 ML CC#49803,EPA#50705A CASE#GEN. TEST
ENHANCED (S 15B 2N 0T)

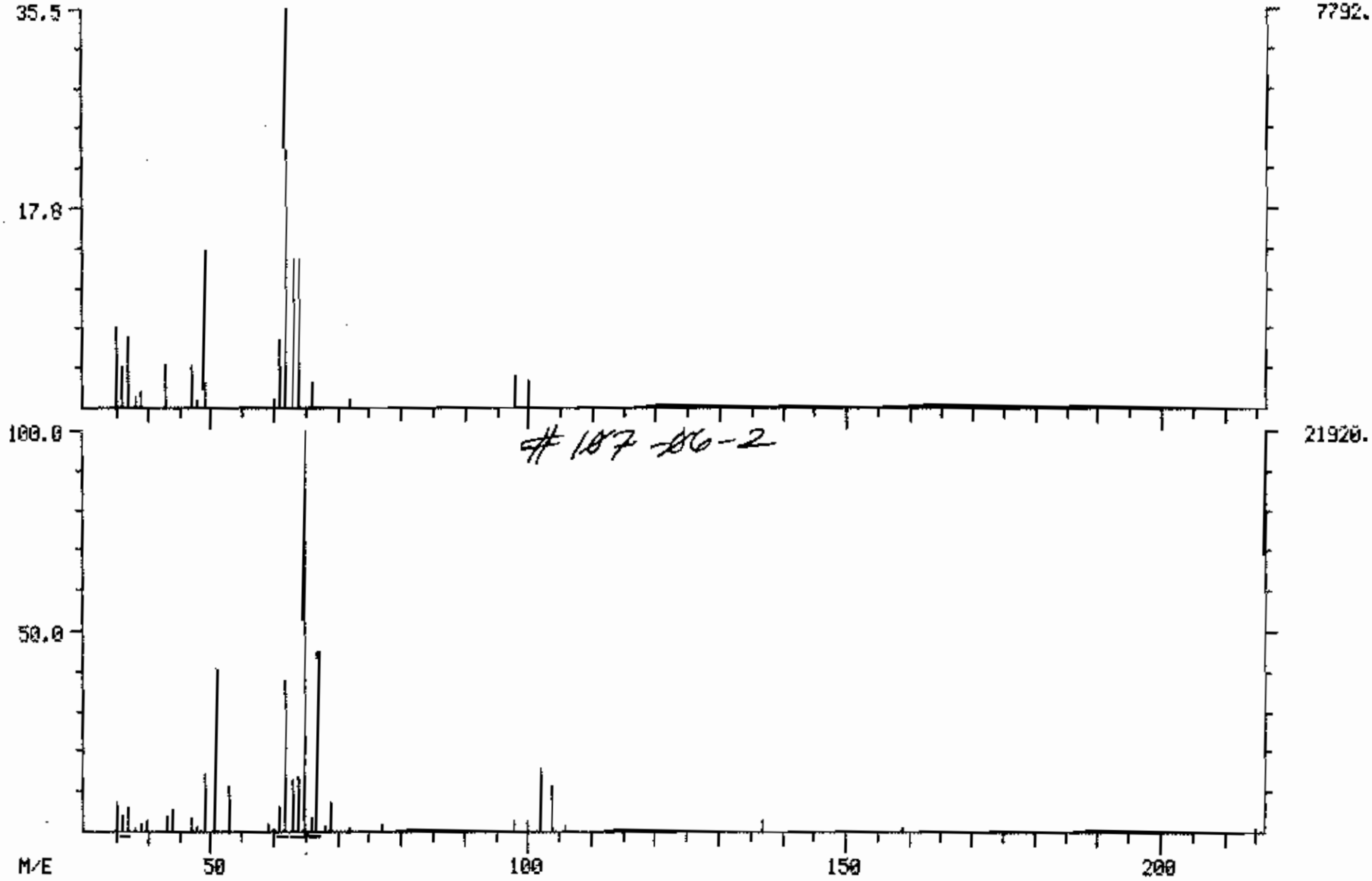
DATA: CH049803B12 # 255
BASE M/E: 62
RIC: 25727.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 17:57:00 + 12:58
SAMPLE: 5 ML CC#49803,EPA#50705A CASE#GEN. TEST
ENHANCED (S 15B 2N)

DATA: CN049803B12 #255 BASE M/E: 62/ 65
RIC: 25951./ 82303.



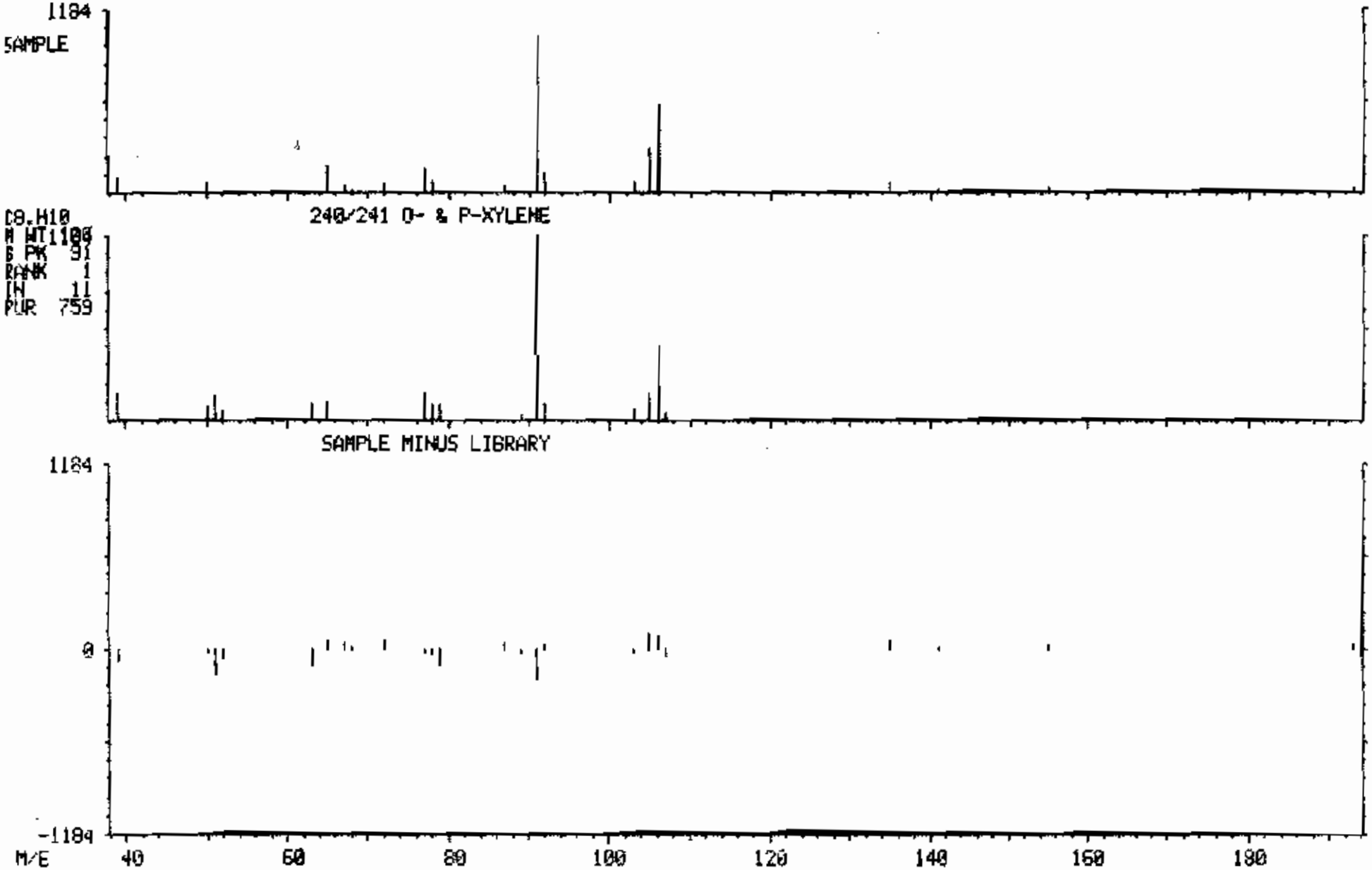
#187-86-2

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 17:57:00 + 35:32
SAMPLE: 5 ML CC#49803,EPA#507@5A CASE#GEN. TEST
ENHANCED (S 15B 2N 0T)

DATA: CN049303B12 # 699

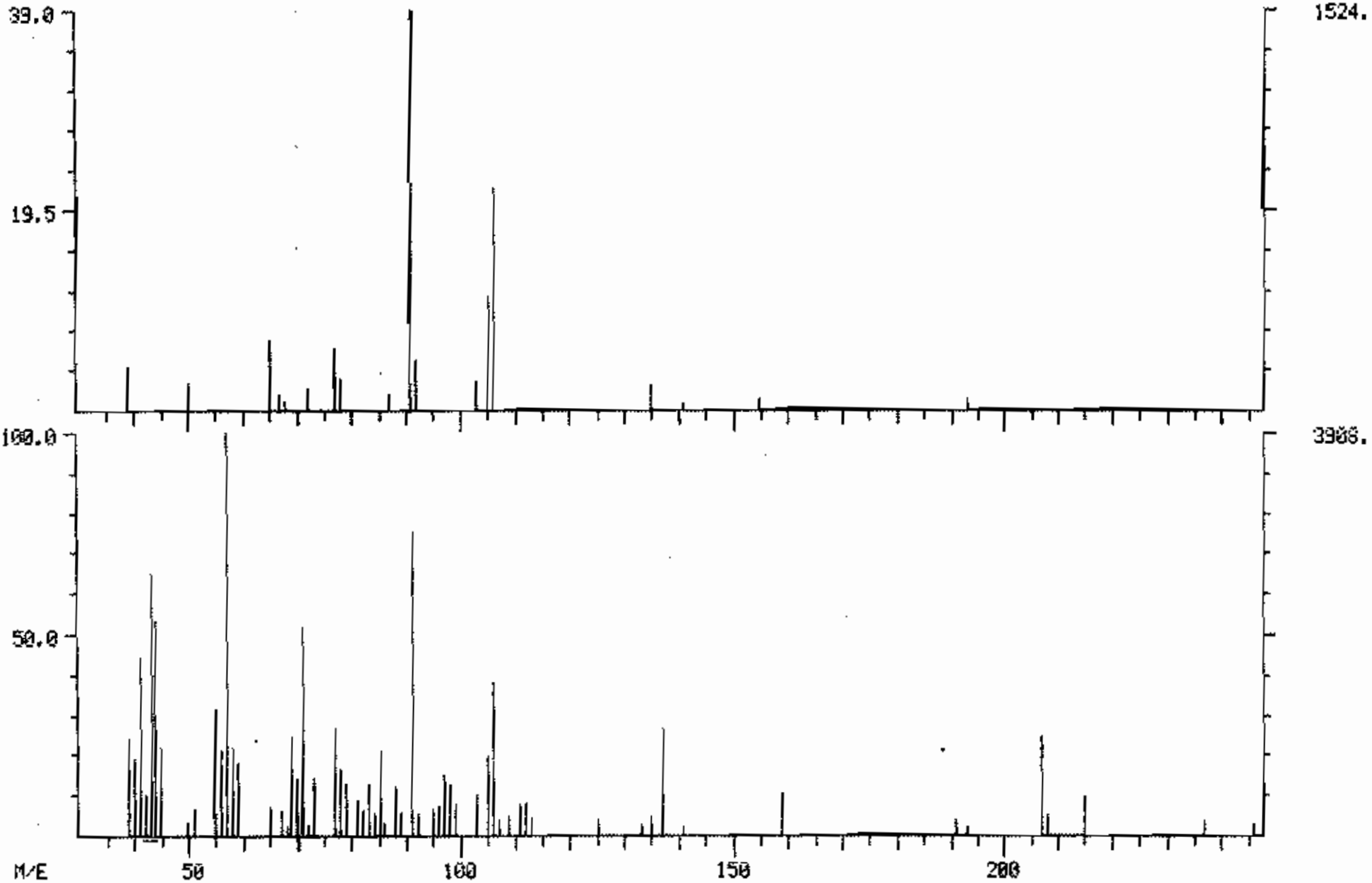
BASE M/E: 91
RIC: 4463.

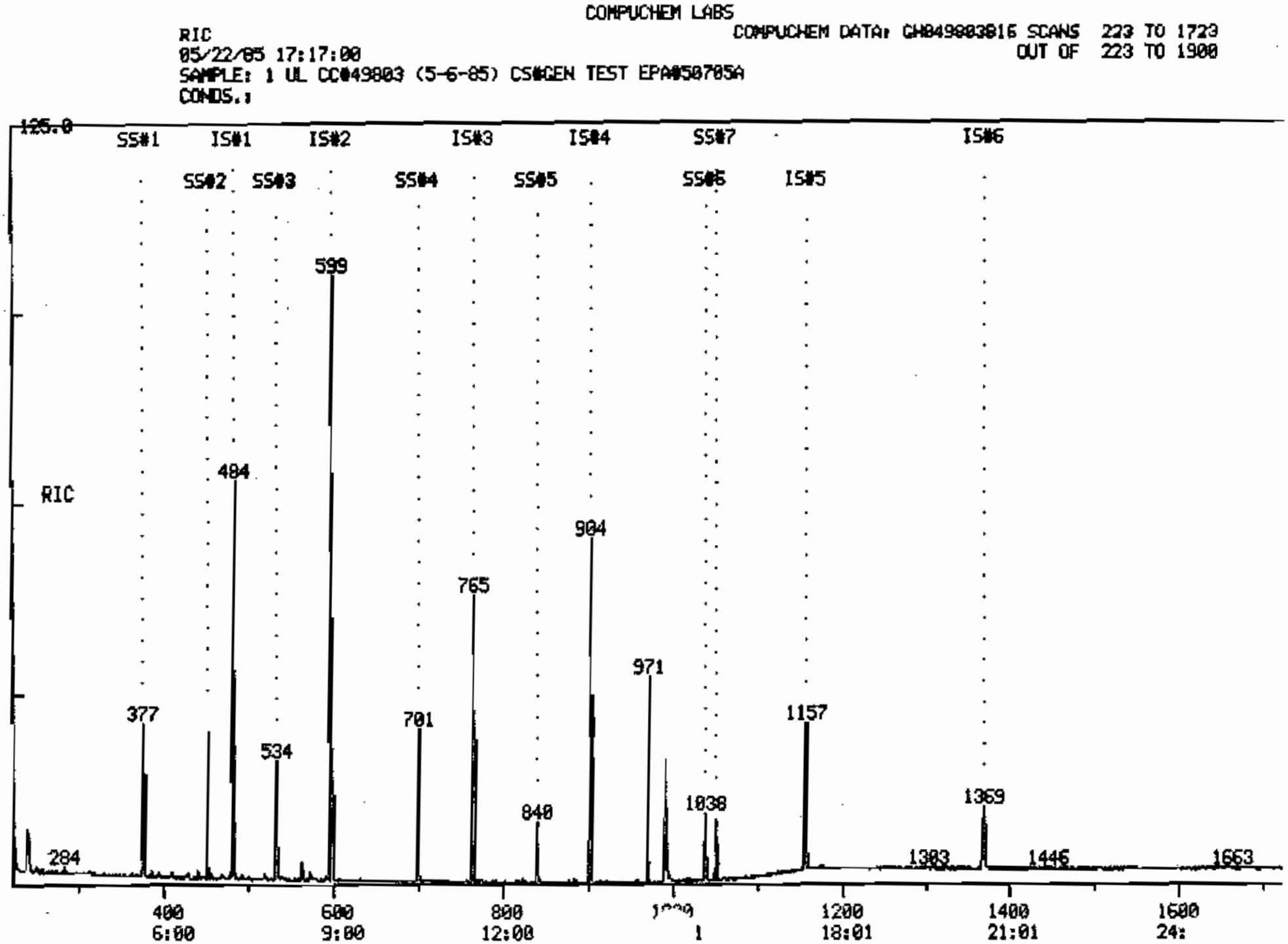


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 17:57:00 + 35:32
SAMPLE: 5 ML CC#49803,EPA#50705A CASE#GEN. TEST
ENHANCED (S 15B 2N)

DATA: CN049803B12 #699 BASE M/E: 91/ 57
RIC: 4463./ 40063.




COMPUCHEM LABS
RIC
COMPUCHEM DATA: CH049003B16 SCANS 223 TO 1723
05/22/85 17:17:00
OUT OF 223 TO 1900
SAMPLE: 1 UL CC#49803 (5-6-85) CS#GEN TEST EPA#50705A
CONDS.:
125.0
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
599
484
RIC
904
765
971
377
701
1157
534
840
1038
1369
284
1383
1445
1663
400
6:00
600
9:00
800
12:00
1200
18:01
1400
21:01
1600
24:

COMPUCHEM LABS

RIC

COMPUCHEM DATA: CH049003B16 SCANS 1723 TO 1900

05/22/85 17:17:00

OUT OF 223 TO 1900

SAMPLE: 1 UL CC#49003 (5-6-85) CS#GEN TEST EPA#50705A

CONDS.:

12861400.

1804

1800

27:0

PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 18:04:30
DATA FILE: GH049803B16
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1B1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES - STANDARD/UNKNOWN
4	4	1	43	53	8	1	49	SEMI1S1/SEMI1U1
4	3	1	65	29	7	1	60	SEMI1B2/SEMI1U2

81 COMPOUNDS PROCESSED, 13 FOUND

COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH BEL	SEARCH DELTA	SEARCH PEAKS	BAT FIT	BAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-475	484	484	.	1	953	.	152	483	-1	1
2	G2	1	-590	599	599	.	1	974	.	136	599	.	1
3	G3	1	-756	765	765	.	1	983	.	164	765	.	1
4	G7	2	-369	377	377	.	1	899	.	112	377	.	2
5	G1	2	-253	261	.	.	.	.	.	42	258	.	3
6	G1	3	-445	454	.	.	.	.	.	94	.	.	.
7	G1	4	-449	458	.	.	.	.	.	93	458	.	1
8	G1	5	-454	463	.	.	.	.	.	93	.	.	.
9	G1	6	-459	468	.	.	.	.	.	128	.	.	.
10	G1	7	-471	480	.	.	.	.	.	146	.	.	.
11	G1	8	-476	485	.	.	.	.	.	146	.	.	.
12	G1	9	-487	496	.	.	.	.	.	108	.	.	.
13	G1	10	-492	501	.	.	.	.	.	146	.	.	.
14	G1	11	-497	506	.	.	.	.	.	108	.	.	.
15	G1	12	-502	511	.	.	.	.	.	45	514	.	3
16	G1	13	-510	519	.	.	.	.	.	108	.	.	.
17	G1	14	-513	522	.	.	.	.	.	70	525	.	2
18	G1	15	-520	529	.	.	.	.	.	117	.	.	.
19	G1	16	-527	536	.	.	.	.	.	77	537	.	1
20	G2	2	-548	557	.	.	.	.	.	82	557	.	1
21	G2	3	-556	565	.	.	.	.	.	139	.	.	.
22	G2	4	-558	567	.	.	.	.	.	122	.	.	
23	G2	5	-565	574	.	.	.	.	.	122	.	.	
24	G2	6	-567	576	.	.	.	.	.	93	.	.	
25	G2	7	-577	586	.	.	.	.	.	162	.	.	
26	G2	8	-586	595	.	.	.	.	.	180	.	.	
27	G2	9	-592	601	.	.	.	.	.	128	.	.	
28	G2	10	-597	606	.	.	.	.	.	127	.	.	.
29	G2	11	-608	617	.	.	.	.	.	225	.	.	.
30	G2	12	-640	649	.	.	.	.	.	107	.	.	.
31	G2	13	-656	665	.	.	.	.	.	142	.	.	.
32	G3	2	-677	686	.	.	.	.	.	237	.	.	.
33	G3	3	-687	696	.	.	.	.	.	196	.	.	.
34	G3	4	-687	696	.	.	.	.	.	196	.	.	.
35	G3	5	-702	711	.	.	.	.	.	162	.	.	.
36	G3	6	-713	722	.	.	.	.	.	65	.	.	.
37	G3	7	-732	741	.	.	.	.	.	163	.	.	.
38	G3	8	-742	751	.	.	.	.	.	152	.	.	.
39	G3	9	-751	760	.	.	.	.	.	138	.	.	.
40	G3	10	-759	768	.	.	.	.	.	153	.	.	.
41	G3	11	-761	770	.	.	.	.	.	184	.	.	.
42	G3	12	-764	773	.	.	.	.	.	139	.	.	.
43	G3	13	-774	783	.	.	.	.	.	168	.	.	.
44	G3	14	-775	784	.	.	.	.	.	89	.	.	.
45	G3	15	-739	748	.	.	.	.	.	165	.	.	.
46	G3	16	-798	807	.	.	.	.	.	149	807		
47	G3	17	-805	814	.	.	.	.					

50	Q7	3	-444	453	453	.	1	907	.	77	453	.
51	Q7	4	-525	534	534	.	1	950	.	82	534	.
52	Q7	5	-691	700	701	1	1	954	.	172	701	.
53	Q7	6	-831	840	840	.	1	928	.	141	840	.
54	Q4	1	-895	904	.	.	.	.	.	188	904	.
55	Q5	1	-1147	1158	1157	-1	1	921	.	240	1157	.
56	Q6	1	-1357	1369	1369	.	1	995	.	264	1369	.
7	Q4	2	-814	823	.	.	.	.	.	198	.	.
58	Q4	3	-816	825	825	.	1	802	.	169	825	.
59	Q4	4	-851	860	.	.	.	.	.	248	.	.
60	Q4	5	-866	875	.	.	.	.	.	284	.	.
61	Q4	6	-881	890	.	.	.	.	.	266	.	.
62	Q4	7	-897	906	.	.	.	.	.	178	.	.
63	Q4	8	-901	910	.	.	.	.	.	178	.	.
64	Q4	9	-949	958	.	.	.	.	.	149	958	.
65	Q4	10	-1009	1019	.	.	.	.	.	202	1018	.
66	Q5	2	-1019	1029	.	.	.	.	.	184	.	.
67	Q5	3	-1031	1041	.	.	.	.	.	202	1040	.
68	Q5	4	-1089	1099	.	.	.	.	.	149	1097	.
69	Q5	5	-1140	1150	.	.	.	.	.	252	.	.
70	Q5	6	-1145	1155	.	.	.	.	.	228	.	.
71	Q5	7	-1145	1155	.	.	.	.	.	149	1154	.
72	Q5	8	-1150	1160	.	.	.	.	.	228	.	.
73	Q6	2	-1219	1230	.	.	.	.	.	149	1227	.
74	Q6	3	-1294	1305	.	.	.	.	.	252	.	.
75	Q6	4	-1294	1305	.	.	.	.	.	252	.	.
76	Q6	5	-1347	1358	.	.	.	.	.	252	.	.
77	Q6	6	-1607	1620	.	.	.	.	.	276	.	.
78	Q6	7	-1611	1624	.	.	.	.	.	278	.	.
79	Q6	8	-1683	1696	.	.	.	.	.	276	.	.
80	Q7	7	-1043	1053	1052	-1	1	980	.	244	1052	.
81	Q8	2	-1029	1039	1038	-1	1	939	.	212	1038	.

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI1 FILENAME: QH049803816 DATE: 05/22/85
SHIFT STD: HH850522A16 TIME: 17:17

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLORLBENZENE (IS#1)	1479800.	2259450.	-34.	PASS
*460 D8-NAPHTHALENE (IS#2)	5226550.	8288830.	-36.	PASS
*495 D10-ACENAPHTMENE (IS#3)	1772860.	3170550.	-43.	PASS
*467 D10-PHENANTHRENE (IS#4)	2423070.	3680950.	-33.	PASS
*459 D12-CHRYSENE (IS#5)	1154870.	1553050.	-25.	PASS
*497 D12-PERYLENE (IS#6)	1064700.	1136030.	-7.	PASS

5/23/85

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	#467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	#459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	#497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENEZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	483	7:19	1	1.000	A BB	1479800.	40.000	NG	11.36
2	42	258	3:92	1	0.534	A*VV	45944.	0.557	NG	0.16
3	94	NOT FOUND								
4	93	458	6:52	1	0.948	A BB	31104.	0.271	NG	0.08
5	93	NOT FOUND								
6	128	NOT FOUND								
7	146	NOT FOUND								
8	146	NOT FOUND								
9	108	NOT FOUND								
10	146	NOT FOUND								
11	108	NOT FOUND								
12	45	514	7:43	1	1.064	A*VV	14048.	0.060	NG	0.02
13	108	NOT FOUND								
14	70	525	7:53	1	1.087	A*VV	12075.	0.138	NG	0.04
15	117	NOT FOUND								
16	77	537	8:04	1	1.112	A BB	6048.	0.063	NG	0.02
17	136	599	8:59	17	1.000	A BV	5226550.	40.000	NG	11.36
18	82	597	8:22	17	0.930	A BB	5088.	0.035	NG	0.01
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
23	162	NOT FOUND								
24	180	NOT FOUND								
25	128	NOT FOUND								
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	NOT FOUND								
29	142	NOT FOUND								
30	164	765	11:29	30	1.000	A BB	1772860.	40.000	NG	11.36
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	NOT FOUND								
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	NOT FOUND								
40	184	NOT FOUND								
41	139	NOT FOUND								
42	168	NOT FOUND								
43	89	NOT FOUND								
44	165	NOT FOUND								
45	149	807	12:07	30	1.055	A*BB	4928.	0.080	NG	0.02
46	204	NOT FOUND								
47	166	NOT FOUND								
48	138	NOT FOUND								
9	188	904	13:34	49	1.000	A BV	2423070.	40.000	NG	11.36
50	198	NOT FOUND								
51	169	825	12:23	49	0.913	A BB	23456.	0.629	NG	0.18
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	NOT FOUND								
55	178	NOT FOUND								
56	178	NOT FOUND								
57	149	958	14:23	49	1.060	A BB	50624.	0.566	NG	0.16
58	202	1018	15:17	49	1.126	A BB	38784.	0.732	NG	0.21
59	240	1157	17:22	59	1.000	A BV	1154870.	40.000	NG	11.36
60	184	NOT FOUND								
61	202	1040	15:37	59	0.899	A BB	38944.	0.589	NG	0.17
62	149	1097	16:28	59	0.948	A*BV	6496.	0.236	NG	0.07
63	252	NOT FOUND								
64	228	NOT FOUND								
65	149	1154	17:19	59	0.997	A*VV	34304.	0.821	NG	0.23
66	228	NOT FOUND								
67	264	1369	20:33	67	1.000	A BB	1064700.	40.000	NG	11.36
68	149	1227	18:25	67	0.896	A*VV	17736.	0.253	NG	0.07
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
73	278	NOT FOUND								
74	276	NOT FOUND								
75	112	377	5:40	1	0.781	A*VV	978944.	12.755	NG	3.62

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	453	6:48	1	0.938	A BB	976640.	9.425	NG	2.68
77	82	534	8:01	17	0.891	A BV	1185400.	14.380	NG	4.08
78	172	701	10:31	30	0.916	A BB	1026240.	17.078	NG	4.85
79	141	840	12:37	30	1.098	A BB	84864.	28.387	NG	8.06
80	244	1052	15:47	59	0.909	A BV	462368.	11.531	NG	3.27
81	212	1038	15:35	59	0.897	A BB	712800.	13.579	NG	3.86

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:48	1.02	10.000	0.05	0.56	50.00	0.025	2.229	0.01
3	6:41		10.000			50.00		2.908	
4	6:44	1.02	10.000	0.09	0.27	50.00	0.017	3.107	0.01
5	6:49		10.000			50.00		2.837	
6	6:53		10.000			50.00		1.674	
7	7:04		10.000			50.00		1.590	
8	7:09		10.000			50.00		1.861	
9	7:19		10.000			50.00		1.321	
10	7:23		10.000			50.00		1.485	
11	7:28		10.000			50.00		1.724	
12	7:32	1.02	10.000	0.11	0.06	50.00	0.008	6.307	0.00
13	7:39		10.000			50.00		1.869	
14	7:42	1.02	10.000	0.11	0.14	50.00	0.007	2.362	0.00
15	7:48		10.000			50.00		0.833	
16	7:55	1.02	10.000	0.11	0.06	50.00	0.003	2.598	0.00
17	8:51	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:14	1.02	10.000	0.09	0.03	50.00	0.001	1.120	0.00
19	8:21		10.000			50.00		0.196	
20	8:23		10.000			50.00		0.358	
21	8:29		50.000			50.00		0.151	
22	8:31		10.000			50.00		0.656	
23	8:40		10.000			50.00		0.247	
24	8:48		10.000			50.00		0.265	
25	8:53		10.000			50.00		1.025	
26	8:58		10.000			50.00		0.430	
27	9:08		10.000			50.00		0.112	
28	9:36		10.000			50.00		0.339	
29	9:51		10.000			50.00		0.598	
30	11:21	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:10		10.000			50.00		0.223	
32	10:19		10.000			100.00		0.308	
33	10:19		100.000			100.00		0.308	
34	10:32		10.000			50.00		1.331	
35	10:42		50.000			50.00		0.686	
36	10:59		10.000			50.00		1.240	
37	11:08		10.000			50.00		2.011	
38	11:16		50.000			50.00		0.290	
39	11:24		10.000			50.00		1.438	
40	11:25		50.000			50.00		0.060	
41	11:28		50.000			50.00		0.192	
42	11:37		10.000			50.00		1.558	
43	11:38		10.000			50.00		0.408	
44	11:06		10.000			50.00		0.245	
45	11:59	1.01	10.000	0.11	0.08	50.00	0.002	1.382	0.00
46	12:05		10.000			50.00		0.445	
47	12:06		10.000			50.00		1.196	
48	12:09		50.000			50.00		0.252	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	13:26	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:13		50.000			50.00		0.080	
51	12:15	1.01	10.000	0.09	0.63	50.00	0.008	0.616	0.01
2	12:46		10.000			50.00		0.198	
53	13:00		10.000			50.00		0.227	
54	13:13		50.000			50.00		0.077	
55	13:28		10.000			50.00		1.234	
56	13:31		10.000			50.00		1.146	
57	14:15	1.01	10.000	0.11	0.57	50.00	0.017	1.476	0.01
58	15:09	1.01	10.000	0.11	0.73	50.00	0.013	0.875	0.01
59	17:13	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:18		50.000			50.00		0.111	
61	15:29	1.01	10.000	0.09	0.59	50.00	0.027	2.290	0.01
62	16:21	1.01	10.000	0.09	0.24	50.00	0.004	0.954	0.00
63	17:07		20.000			50.00		0.238	
64	17:11		10.000			50.00		1.433	
65	17:11	1.01	10.000	0.10	0.82	50.00	0.024	1.448	0.02
66	17:16		10.000			50.00		1.163	
67	20:22	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:18	1.01	10.000	0.09	0.25	50.00	0.013	2.639	0.01
69	19:25		10.000			50.00		1.053	
70	19:25		10.000			50.00		1.053	
71	20:13		10.000			50.00		1.014	
72	24:07		10.000			50.00		1.070	
73	24:11		10.000			50.00		0.863	
74	25:16		10.000			50.00		0.847	
75	5:32	1.02	0.742	1.05	12.75	50.00	0.529	2.075	0.26
76	6:40	1.02	0.948	0.99	9.42	50.00	0.528	2.801	0.19
77	7:33	1.02	0.875	1.02	14.38	50.00	0.181	0.631	0.29
8	10:22	1.01	0.906	1.01	17.08	50.00	0.463	1.356	0.34
79	12:28	1.01	1.118	0.98	28.39	50.00	0.038	0.067	0.57
80	15:39	1.01	0.907	1.00	11.53	50.00	0.320	1.389	0.23
81	15:27	1.01	0.906	0.99	13.58	50.00	0.494	1.818	0.27

QUANTITA

DATA: QH049803B16.TI
05/22/85 17:17:00
SAMPLE: 1 UL CC#49803 (5-6-85) CS#GEN TEST EPA#50705A
COMMENTS:
SUBMITTED BY: 16 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	484	7:16	2	0.808	A BB	11746100.	83.509	22.39
2	RIC	599	8:59	2	1.000	A VV	14065700.	100.000	26.82
3	RIC	765	11:29	2	1.277	A VV	9941820.	70.681	18.95
4	RIC	904	13:34	2	1.509	A VB	7837240.	55.718	14.94
5	RIC	1157	17:22	2	1.932	A VV	4859170.	34.546	9.26
6	RIC	1369	20:33	2	2.285	A BV	4002110.	28.453	7.63

QUANTITATION REPORT FILE: UNKNOWN

DATA: QH049803B16.TI
05/22/85 17:17:00
SAMPLE: 1 UL CC#49803 (5-6-85) CS#GEN TEST EPA#50705A
MDS.:
SUBMITTED BY: 16 ANALYST: 803

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

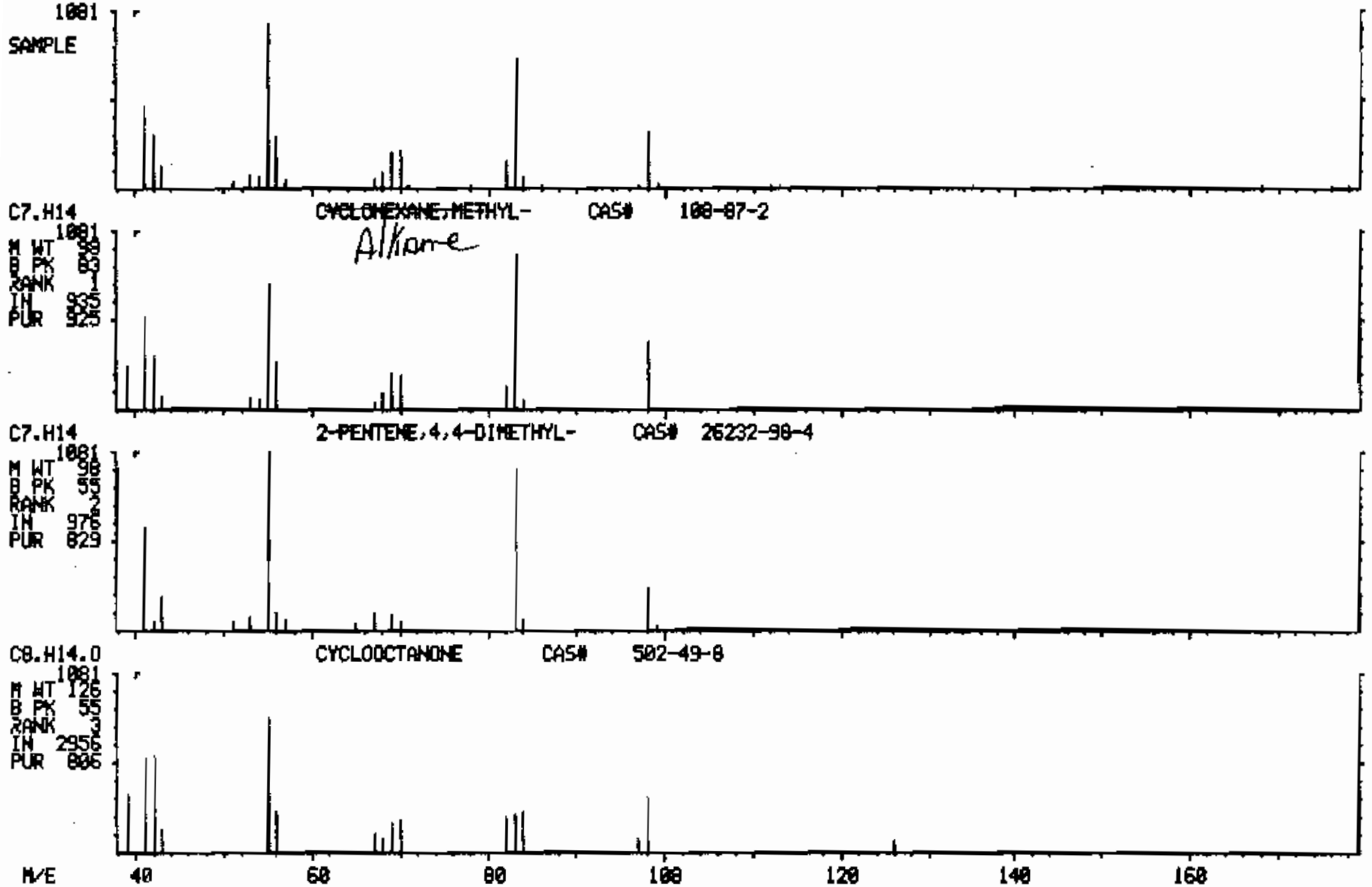
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	241	3:37	3	0.243	A BB	2289910.	42.998	20.63
2	RIC	971	14:34	3	0.981	A VV	3484320.	65.426	31.39
3	RIC	990	14:52	3	1.000	A VV	5325630.	100.000	47.98

BNA D

COMPUCHEM LABS

LIBRARY SEARCH
05/22/85 17:17:00 + 3:37
SAMPLE: 1 UL CC#49803 (5-6-85) CS#GEN TEST EPA#50705A

DATA: GH049803B16 # 241 BASE M/E: 55
ENHANCED (10B 2N 0T) RIC: 701439.



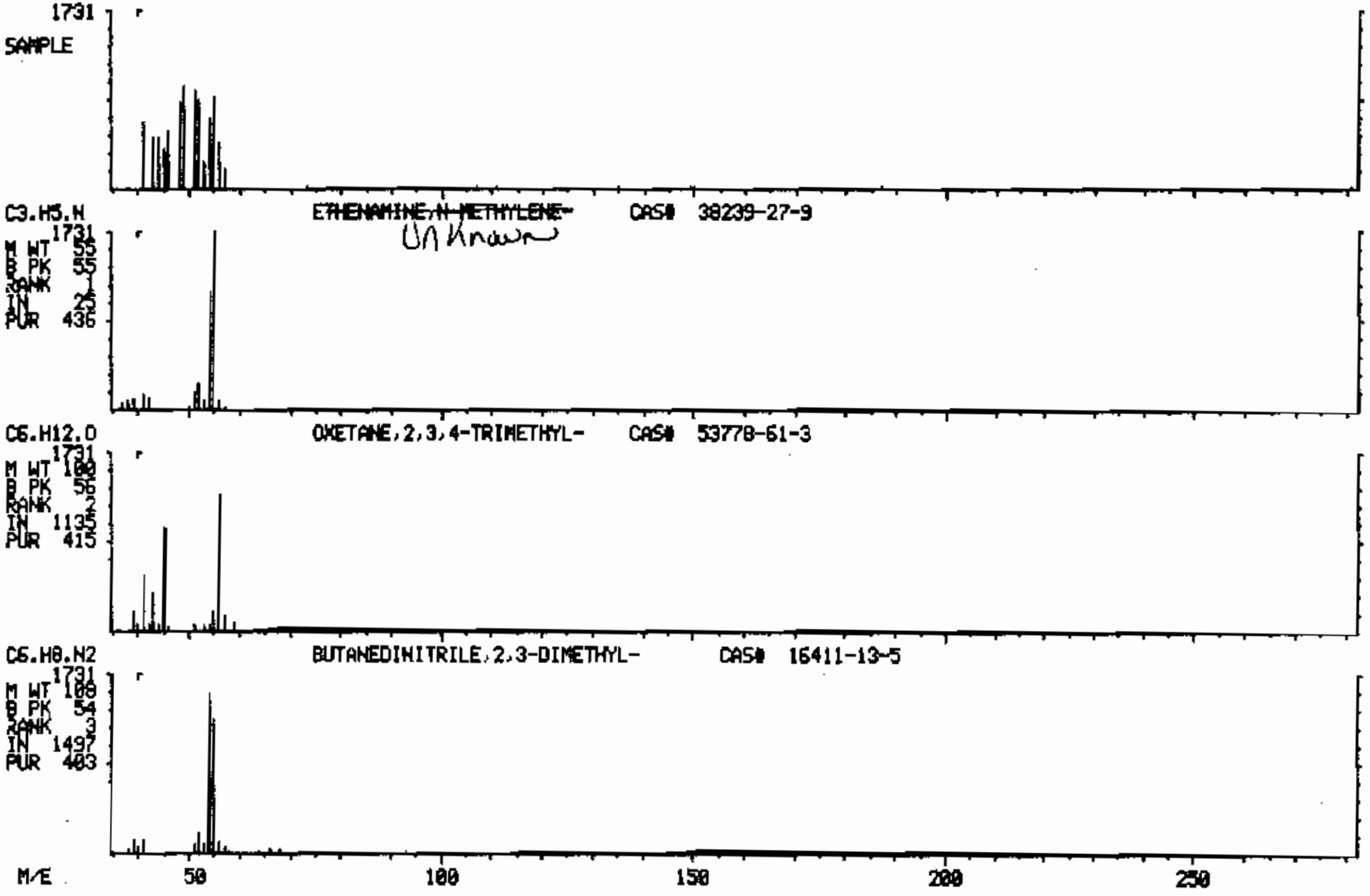
BNA (2)

COMPUCHEM LABS

LIBRARY SEARCH
05/22/85 17:17:00 + 14:34
SAMPLE: 1 UL CC#49803 (5-6-85) CS#GEN TEST EPA#50705A

DATA: GH049003816 # 971
ENHANCED (10B 2N 0T)

BASE M/E: 49
RIC: 3469310.



VOA
GC/MS WORKSHEET COMPUCHEM#: 49803

J1[ ] J3[ ] D1[ ] (:1)
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: 5070SA

GC/MS ANALYSIS

Amount Purged: [x] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added_____ul
Surrogate Standard Volume Added_____ul
BFB Filename BF850509A12 Disk(122)
Blank Filename CC850509A12 Disk ( )
Standard Filename CS850509B12 Disk ( )
Sample Filename CN049803B2 Disk ( )

ANALYST(S): Injection 890 Work-up 719

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,1L,IH,SW,CT,CS,PC,HR
IF,LA,OI,CO,RH,DW,SI,SF
UP,BB,OT,VC,FQ,SM

Disposition: [x] Complete
[ ] Reinject Neat
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review RWB Date 5/10/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections:_____
Final Reportable Package(s):_____/_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

ENTERED 5/12/85

ERAWATER (11/8

CASE#: GEN.TEST DUE DATE: 6/17/85

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 49803

J[ ] R[ ] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SAS: EPA#: 5070SA

GC/MS ANALYSIS

Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected (ul)
Date of Sample Bottle Analyzed 5/6/85
DFTPP Filename DI550522A16 Disk (2778)
Standard Filename HH850522A16 Disk ( )
Sample Filename GH049803B16 Disk ( )

ANALYST(S): Injection 803 Work-up 803

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,FH,FL,JS FH,HL,HH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IN,SW,CT,CS,FC,OT,NS ED,IF,LA,DI,CO,RN,DW,DA

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 2

[ ] Reinjection required

[ ] Reextraction required

Quality Assurance Notice(s):
Notices Required 1

[ ] Dilute (:1)

COMMENTS: pk 20 5.23.85

[ ] Reinject Neat

[ ] Send to QA

GC/MS Review [signature] Date 5/23/85 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): GH--B16 /

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

EPAWATER (11/84)

ENTERED MN

received 5/23/85

(8)

VOLATILE PREP WORKSHEET

№ 1192

ASSIGNED TO Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LJQ	Screens S	Screens L	Screens M	Comments
49807	-57	gen test			40 mL	5-6-85	/		X		
49810	"	"	BS		40 mL.	"	/		X		
49811	"	"			40 mL.	"	/		X		
49812	"	"			40 mL.	"	/		X		
49813	"	"			40 mL.	"	/		X		
49861	"	"			40 mL.	"	/		X		
49915			B		40 mL.	5-6-85	/		X		
49916			B		40 mL.	"	/		X		
			B								

Surrogate No 561 / 55
Amount 100 & 200 mL. / 1 mL
Lot 14367 / 14346

Extracts Received 5/6/85 BD

Schedule Reference
Manual Counter 286 / 296

Issued 5/7 PM

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Cyril (OK AA)

DATE ASSIGNED: 5/6/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49804	-56	Gen. Test		BS		500 ml		0.5 ml	0.5 ml		13	1	5/6	diluted samples w/ 500 ml extg H_2O and 250 ml surrogated 273/300
49805		Gen Test		SS	49803	500 ml		0.5 ml	0.5 ml		13	1	5/6	use 49803, *use 500 ml
49806		Gen Test		SS	49803	500 ml		0.5 ml	0.5 ml		13	1	5/6	
49803		Gen Test	50705A			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49811			50705F			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49812			50705B			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49813			50705C			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49814			TABLK 11446			1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49899				B		1,000 ml		1.0 ml	1.0 ml		13	1	5/6	
49900				B^2		1,000 ml		1.0 ml	1.0 ml		13	1	5/6	

		B-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5 ml					
	LOT	14588					
SPIKE	NO.		3012	202/A			
	AMT.		0.25 ml	0.25 ml			
	LOT		14558	14560			

issued 5/6 PM

MANUAL COUNTER: 272/445 ✓ 273/300 ✓

FINAL VOLUME VERIFIED: OK

SUPERVISOR REVIEWED: OK

EXTRACTS RECEIVED BY: BP 5/6/85

$MeCl_2$ 17, 20, 21, 22B

№ 6070

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)		Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL		10.0
3	220	___	BROMOMETHANE			BDL		10.0
4	231	___	VINYL CHLORIDE			BDL		10.0
5	209	___	CHLOROETHANE			BDL		10.0
6	222	___	METHYLENE CHLORIDE	4.0		J	B	5.0
7	252	___	ACETONE (2-PROPANONE)			BDL		10.0
8	254	___	CARBON DISULFIDE			BDL		5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL		5.0
10	214	___	1,1-DICHLOROETHANE			BDL		5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL		5.0
12	211	___	CHLOROFORM			BDL		5.0
13	215	___	1,2-DICHLOROETHANE	7.5		7.5		5.0
15	253	___	2-BUTANONE			BDL		10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL		5.0
17	206	___	CARBON TETRACHLORIDE			BDL		5.0
18	257	___	VINYL ACETATE			BDL		10.0
19	212	___	BROMODICHLOROMETHANE			BDL		5.0
20	217	___	1,2-DICHLOROPROPANE			BDL		5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL		5.0
22	229	___	TRICHLOROETHYLENE			BDL		5.0
23	208	___	CHLORODIBROMOMETHANE			BDL		5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL		5.0
25	203	___	BENZENE			BDL		5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL		5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL		10.0
28	205	___	BROMOFORM			BDL		5.0
30	255	___	2-HEXANONE			BDL		10.0
31	256	___	4-METHYL-2-PENTANONE			BDL		10
32	224	___	TETRACHLOROETHENE			BDL		5
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL		5
34	225	___	TOLUENE			BDL		5.
35	207	___	CHLOROBENIENE			BDL		5.0
36	219	___	ETHYLBENZENE			BDL		5.0
37	251	___	STYRENE			BDL		5.0
38	239	___	M-XYLENE			BDL		5.0
39	240/	___	241 O- & P-XYLENE	2.8		J		5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	F
40		04-1,2-DICHLOROETHANE	48.4	50.0	97.0	77-120	X
41		BROMOFLUOROBENIENE	48.2	50.0	96.0	85-121	X
42		DB-TOLUENE	49.9	50.0	100.0	86-119	X

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	X	

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

CMP	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
494	152	I	D4-1,4-DICHLORLBENZENE (IS#	483	1480000.	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	20
610	94		PHENOL (G1#3) <108-95-2>				BDL	20
473	93		ANILINE (G1#4) <62-53-3>				BDL	20
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	20
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	20
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	20
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	20
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	20
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	20
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	20
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	20
622	108		4-METHYLPHENOL (G1#13) <106				BDL	20
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	20
440	77		NITROBENZENE (G1#16) <98-95				BDL	20
460	136	I	D8-NAPHTHALENE (I8#2)	599	5230000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	20
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	20
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	20
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	100
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	20
76	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	20
79	128		NAPHTHALENE (G2#9) <91-20-3				BDL	20
475	127		4-CHLOROANILINE (G2#10) <10				BDL	20
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	20
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	20
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	20
495	164	I	D10-ACENAPHTHENE (I8#3)	765	1770000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	200
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	20
478	65		2-NITROANILINE (G3#6) <88-7				BDL	100
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	20
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	20
479	138		3-NITROANILINE (G3#9) <99-0				BDL	100
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	20
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	100
607	139		4-NITROPHENOL (G3#12) <100-				BDL	100
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	20
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	20
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	20
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	20
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20
432	166		FLUORENE (G3#18) <86-73-7>				BDL	20
480	138		4-NITROANILINE (G3#19) <100				BDL	100
467	188	I	D10-PHENANTHRENE (IS#4)	904	2420000.	40.0		
74	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	20
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	20
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	100

BEMI-VOLATILE - LIQUID

	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT LIMIT (UG/L)
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	20
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	20
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20
459	240	I	D12-CHRYSENE (IS#5)	1157	1150000.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>				BDL	100
443	202		PYRENE (G5#3) <129-00-0>				BDL	20
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20
497	264	I	D12-PERYLENE (IS#6)	1369	1060000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20
419	278		DIBENZO(A,H)ANYHRACENE (G6#				BDL	20
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20
619	112	S	2-FLUOROPHENOL (SS#1)			12.8	26.0%	
612	99	S	D5-PHENOL (SS#2)			9.4	19.0%	
447	82	S	D5-NITROBENEZENE (SS#3)			14.4	58.0%	
9	172	S	2-FLUOROBIPHENYL (SS#4)			17.1	68.0%	
28	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			28.4	57.0%	
496	244	S	D14-TERPHENYL (SS#7)			11.5	46.0%	
471	212	S	D10-PYRENE (SS#6)			13.6	54.0%	
CHECKSUMS:								
6593.	2206			5277	13110000.	347.2	328.0	

AE 5/23/85

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P
75	619	2-FLUOROPHENOL (SS#1)	12.8	50.0	26.0	23-121	X
76	612	D5-PHENOL (SS#2)	9.4	50.0	19.0	15-103	X
77	447	D5-NITROBENEZENE (SS#3)	14.4	25.0	58.0	41-120	X
78	448	2-FLUOROBIPHENYL (SS#4)	17.1	25.0	68.0	44-119	X
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	28.4	50.0	57.0	10-130	X
80	496	D14-TERPHENYL (SS#7)	11.5	25.0	46.0	33-128	X
81	471	D10-PYRENE (SS#6)	13.6	25.0	54.0	33-128*	X

AC 5/23/86

* ADVISORY SURROGATE ONLY

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

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1000.ML}}{\text{1000.ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{500 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{\text{500 UL}}{\text{500 UL}} \times \frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

QUALITY ASSURANCE NOTICE
sample # 49803
fraction S.V.

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 990 _____ _____ _____ _____ _____

QAN10S
850218

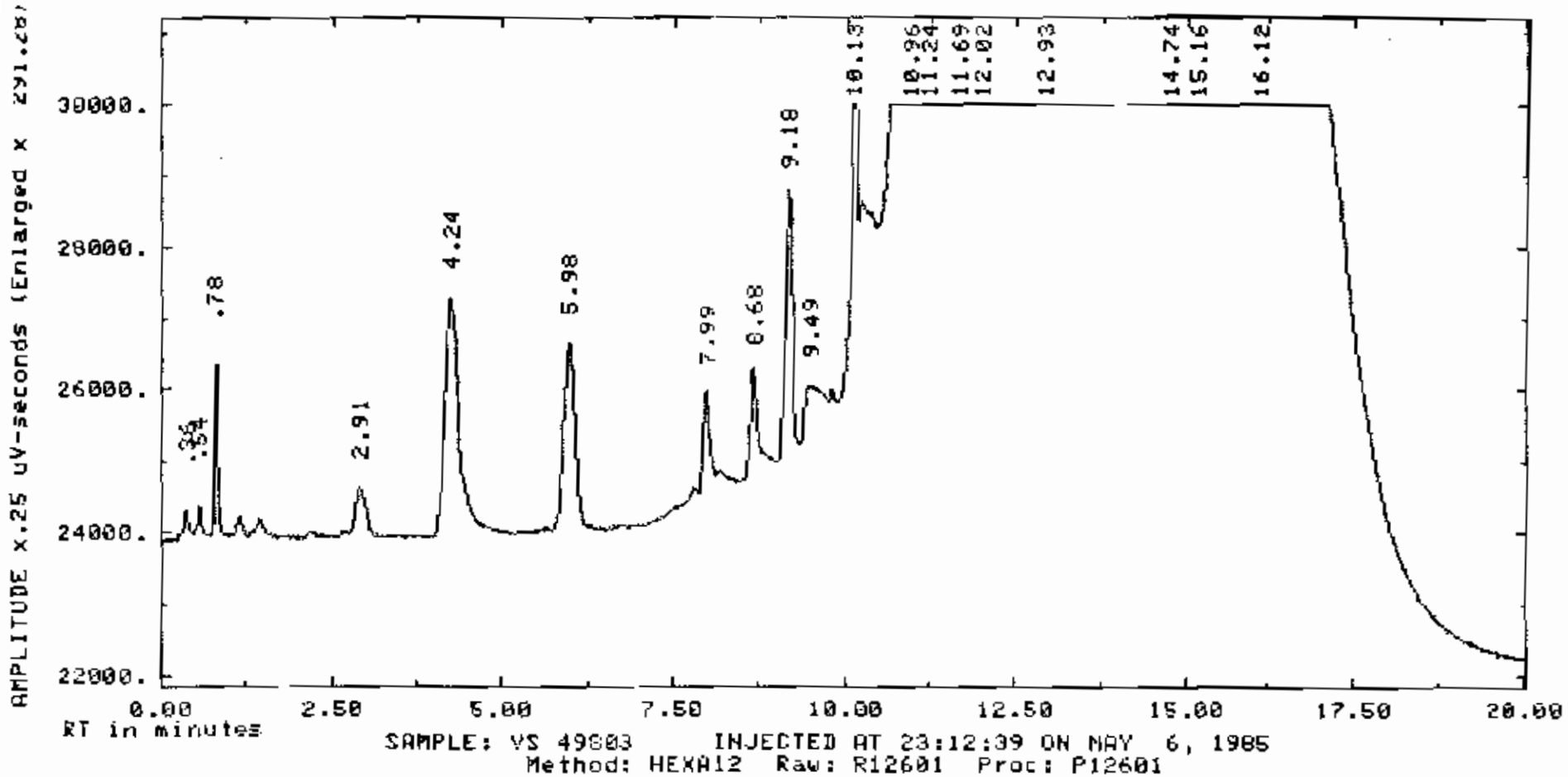
GC SCREEN DATA SHEET

Laboratory Name CompuChem

Case Number Gen. Test

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
50785A CC# 49803	VOA B/N/A Pesticides Dioxin	NO	5-6-85	L
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			

*Answer Yes or No.
**Indicate "M" for medium level GC/MS analysis.
Indicate "L" for low level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 291.28)
30000.
28000.
26000.
24000.
22000.
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
.35
.54
.78
2.91
4.24
5.98
7.99
8.68
9.18
9.49
10.13
10.96
11.24
11.69
12.02
12.93
14.74
15.16
16.12
SAMPLE: VS 49803 INJECTED AT 23:12:39 ON MAY 6, 1985
Method: HEXA12 Raw: R12601 Proc: P12601

Report: 4055.00 Channel: 12

Sample: VS 49803 Injected at 23:12:39 ON MAY 6, 1985

RO Method: HEXA12 Seq: SEQ126 Subsq/Samp: 1/ 1 Btl: 1

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.017 minutes

Signal > 1 volt
Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.36	0.00	.10000E+01	434.	BB	.000	
.54	0.00	.10000E+01	627.	BB	.001	
.78	0.00	.10000E+01	3546.	BB	.004	
2.91	0.00	.10000E+01	3303.	BB	.004	
4.24	0.00	.10000E+01	22401.	BB	.024	
5.98	0.00	.10000E+01	15449.	BB	.017	
7.99	0.00	.10000E+01	1029.	BB	.001	
8.68	0.00	.10000E+01	4616.	BB	.005	
9.18	0.00	.10000E+01	11408.	BV	.012	
9.49	0.00	.10000E+01	5369.	VV	.006	
10.13	0.00	.10000E+01	23237.	VV	.025	
10.96	0.00	.10000E+01	27921.	VV	.030	
11.24	0.00	.10000E+01	35039.	VV	.037	
11.69	0.00	.10000E+01	5638.	VB	.006	
12.02	0.00	.10000E+01	11450.	BH	.012	
2.93	0.00	.10000E+01	90107328.	HS	96.386	
4.74	0.00	.10000E+01	135278.	TV	.145	
15.16	0.00	.10000E+01	221602.	VV	.237	
16.12	0.00	.10000E+01	2850568.	VT	3.049	

Total Area = 93486256. Total AREA % = 2850568.500

Processed data file: P12601 Raw data file: R12601

III. SAMPLE DATA PACKAGE

CASE NO. Denbeat May 1985 Water

SAMPLE NO. 50705F = COMPUCHEM NO. 49811
Site No. 4

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)

2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.

3. Raw Data — in order: VOA, BNA, Pesticide

1. HSL Results — Organic Analysis Data Sheets (Form I)

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705F

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CN049811B12
Sample matrix: liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601 PLATINUM
Date Sample
Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-09-85
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.6	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	6.1	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

:onmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50705F RE

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-24-85
Date analyzed: 05-25-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorphenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronapthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
5Ø785F

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER 50705F

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	629-74-3	Lab Artifact 1-HEXADECYNE	SEMI1	984	180.	J B

JC
5/23/86

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

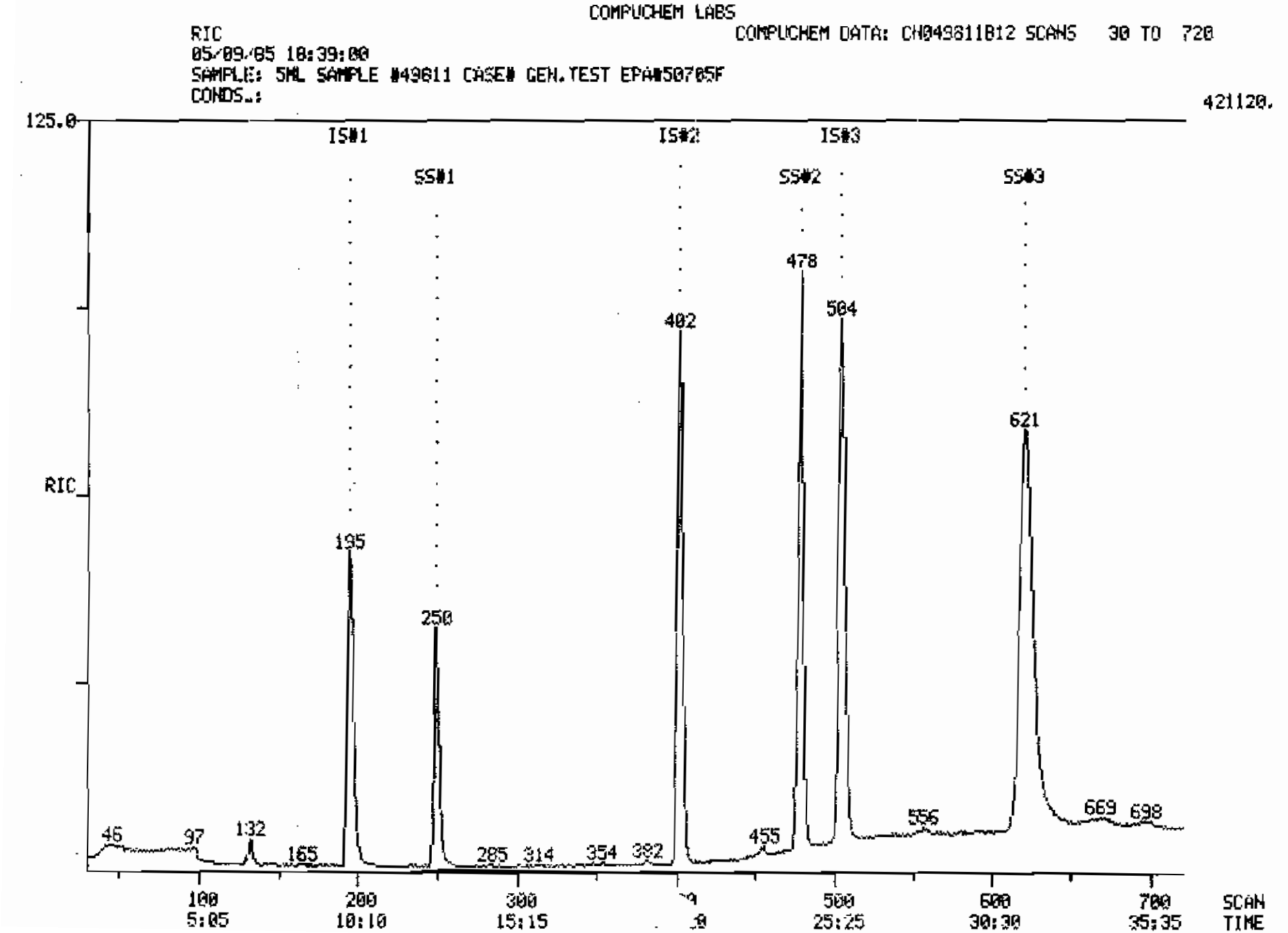
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CH049811B12 SCANS 30 TO 720
05/09/85 10:39:00
SAMPLE: SML SAMPLE #49811 CASE# GEN.TEST EPA#50705F
CONDS.:
421120.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
478
504
402
621
RIC
195
250
46
97
132
165
285
314
354
382
455
556
669
698
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/85 19:25:12
DATA FILE: CN049811B12
REFERENCE: E237
METHOD: E237 INITIALIIATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	7	1	56	E237S/E23TU

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND			SEARCH					SAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-193	193	193	.	1	963	.	128	193	.	1
2	E2	1	-399	402	402	.	1	993	.	114	402	.	1
3	E3	1	-501	504	504	.	1	974	.	117	504	.	1
4	E1	2	-34	35	.	.	.	.	.	50	.	.	.
5	E1	3	-54	56	.	.	.	.	.	94	.	.	.
6	E1	4	-69	71	.	.	.	.	.	62	.	.	.
7	E1	5	-89	91	.	.	.	.	.	64	.	.	.
8	E1	6	-131	133	132	-1	1	942	.	84	132	.	1
9	E1	7	-143	145	.	.	.	.	.	43	144	.	1
10	E1	8	-162	164	.	.	.	.	.	76	164	.	1
11	E1	9	-185	187	.	.	.	.	.	96	.	.	.
12	E1	10	-210	212	.	.	.	.	.	63	.	.	.
13	E1	11	-224	226	.	.	.	.	.	96	.	.	.
14	E1	12	-234	236	.	.	.	.	.	83	237	.	1
15	E1	13	-249	251	.	.	.	.	.	62	252	.	1
16	E2	2	-247	249	.	.	.	.	.	72	250	.	1
17	E2	3	-276	278	.	.	.	.	.	97	.	.	.
18	E2	4	-284	286	.	.	.	.	.	117	.	.	.
19	E2	5	-285	287	.	.	.	.	.	43	.	.	.
20	E2	6	-293	295	.	.	.	.	.	83	.	.	.
21	E2	7	-321	323	.	.	.	.	.	63	.	.	.
22	E2	8	-326	328	.	.	.	.	.	75	.	.	.
23	E2	9	-337	339	.	.	.	.	.	130	.	.	.
24	E2	10	-349	352	.	.	.	.	.	129	352	.	1
25	E2	11	-351	354	.	.	.	.	.	97	.	.	.
26	E2	12	-347	350	.	.	.	.	.	78	352	.	1
27	E2	13	-351	354	.	.	.	.	.	75	355	.	1
28	E2	14	-373	376	.	.	.	.	.	63	.	.	.
29	E2	15	-403	406	.	.	.	.	.	173	407	.	1
30	E3	2	-414	417	.	.	.	.	.	43	418	.	1
31	E3	3	-446	449	.	.	.	.	.	43	.	.	.
32	E3	4	-451	454	.	.	.	.	.	164	454	.	1
33	E3	5	-450	453	.	.	.	.	.	83	453	.	1
34	E3	6	-479	482	.	.	.	.	.	92	482	.	1
35	E3	7	-504	507	.	.	.	.	.	112	507	.	1
36	E3	8	-553	556	.	.	.	.	.	106	556	.	2
37	E3	9	-658	662	.	.	.	.	.	104	662	.	1
38	E3	10	-667	671	.	.	.	.	.	106	671	.	2
39	E3	11	-694	698	.	.	.	.	.	106	698	.	1
40	E4	2	-247	249	250	1	1	971	.	69	250	.	1
41	E4	3	-618	621	621	.	1	992	.	95	621	.	1
42	E4	4	-475	478	478	.	1	988	.	98	478	.	1

Internal Standard Area Monitor

Method: E237 Filename: CN049811B12 Date: 05/09/85
Shift Std: CS850509B12 Time: 18:39

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	126173.	133457.	-6.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	478685.	512684.	-7.	Pass
* D5 CHLOROBENZENE(INTERNAL STANDARD)	463128.	467377.	0.	Pass

QUANTITATION REPORT FILE: CN049811B12

DATA: .CN049811B12.TI
05/09/85 18:39:00
SAMPLE: 5ML SAMPLE #49811 CASE# CEN.TEST EPA#50705F
IDS. :
SUBMITTED BY: 12 ANALYST: 719

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FAC7)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	* BRDMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENIENE (INTERNAL STANOARO)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
9	212 BROMODICHLOROMETHANE
)	217 1,2-DICHLOROPRDPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENIENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENIENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	195	9:55	1	1.000	A BV	126194.	50.000 UG/L	13.43
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	.94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	132	6:43	1	0.677	A BB	13009.	4.599	UG/L	1.42
7	43	144	7:19	1	0.738	A BB	3329.	6.097	UG/L	1.88
8	76	164	8:20	1	0.841	A BB	448.	0.057	UG/L	0.02
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	237	12:03	1	1.215	A BB	315.	0.052	UG/L	0.02
13	62	252	12:49	1	1.292	A BB	7191.	1.838	UG/L	0.57
14	114	402	20:26	14	1.000	A BV	498686.	50.000	UG/L	15.43
15	72	250	12:42	14	0.622	A BB	727.	2.965	UG/L	0.92
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	352	17:54	14	0.876	A BB	449.	0.083	UG/L	0.03
24	97	NOT FOUND								
25	78	352	17:54	14	0.876	A BV	4291.	0.636	UG/L	0.20
26	75	355	18:03	14	0.883	A BB	1037.	0.163	UG/L	0.05
27	63	NOT FOUND								
28	173	407	20:41	14	1.012	A BB	1399.	0.308	UG/L	0.09
29	117	504	25:37	29	1.000	A BV	465128.	50.000	UG/L	15.43
30	43	418	21:15	29	0.829	A VV	1954.	0.726	UG/L	0.22
31	43	NOT FOUND								
32	164	454	23:05	29	0.901	A BB	1347.	0.269	UG/L	0.08
33	83	453	23:02	29	0.899	A BB	3650.	0.808	UG/L	0.25
34	92	482	24:30	29	0.956	A BB	2337.	0.429	UG/L	0.13
35	112	507	25:46	29	1.006	A BV	4664.	0.527	UG/L	0.16
36	106	556	28:16	29	1.103	A*BB	2231.	0.473	UG/L	0.15
37	104	662	33:39	29	1.313	A BB	8017.	0.703	UG/L	0.22
38	106	671	34:07	29	1.331	A*VB	2647.	0.416	UG/L	0.13
39	106	698	35:29	29	1.385	A BB	8746.	1.428	UG/L	0.44
40	65	250	12:42	1	1.282	A BV	197425.	50.498	UG/L	15.58
41	95	621	31:34	29	1.232	A BB	362199.	48.477	UG/L	14.96
42	98	478	24:18	1	2.451	A BV	471906.	52.510	UG/L	16.20

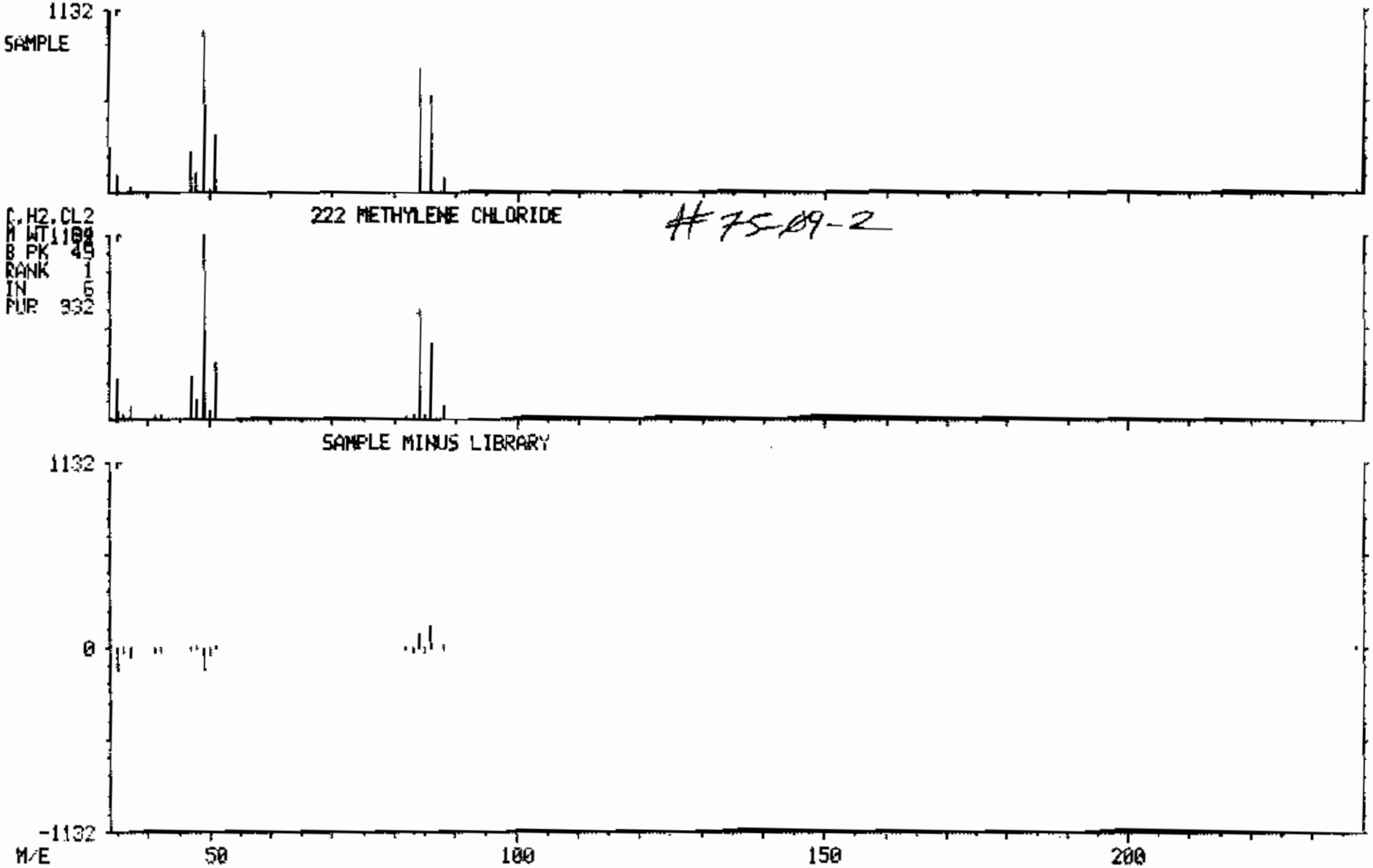
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:49	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:44		10.000			50.00		0.880	
3	2:45		10.000			50.00		1.474	
4	3:30		10.000			50.00		1.198	
5	4:31		10.000			50.00		0.626	
6	6:40	1.01	5.000	0.14	4.60	50.00	0.103	1.121	0.09
7	7:16	1.01	10.000	0.07	6.10	50.00	0.026	0.216	0.12
8	8:14	1.01	5.000	0.17	0.06	50.00	0.004	0.133	0.00
9	9:24		5.000			50.00		1.062	
10	10:40		5.000			50.00		1.852	
11	11:23		5.000			50.00		1.077	
12	11:54	1.01	5.000	0.24	0.05	50.00	0.002	2.421	0.00
13	12:39	1.01	5.000	0.26	1.84	50.00	0.057	1.550	0.04
14	20:17	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33	1.01	10.000	0.06	2.97	50.00	0.001	0.025	0.06
16	14:02		5.000			50.00		0.515	
17	14:26		5.000			50.00		0.546	
18	14:29		10.000			50.00		0.417	
19	14:54		5.000			50.00		0.596	
20	16:19		5.000			50.00		0.335	
21	16:34		5.000			50.00		0.234	
22	17:08		5.000			50.00		0.490	
23	17:44	1.01	5.000	0.18	0.08	50.00	0.001	0.541	0.00
24	17:51		5.000			50.00		0.303	
25	17:38	1.01	5.000	0.18	0.64	50.00	0.009	0.676	0.01
26	17:51	1.01	5.000	0.18	0.16	50.00	0.002	0.638	0.00
27	18:58		10.000			50.00		0.190	
28	20:29	1.01	5.000	0.20	0.30	50.00	0.003	0.467	0.01
29	25:28	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:03	1.01	10.000	0.08	0.73	50.00	0.004	0.289	0.01
31	22:40		10.000			50.00		0.188	
32	22:56	1.01	5.000	0.18	0.27	50.00	0.003	0.538	0.01
33	22:52	1.01	5.000	0.18	0.81	50.00	0.008	0.486	0.02
34	24:21	1.01	5.000	0.19	0.43	50.00	0.005	0.585	0.01
35	25:37	1.01	5.000	0.20	0.53	50.00	0.010	0.952	0.01
36	28:07	1.01	5.000	0.22	0.47	50.00	0.005	0.507	0.01
37	33:27	1.01	5.000	0.26	0.70	50.00	0.017	1.226	0.01
38	33:54	1.01	5.000	0.27	0.42	50.00	0.006	0.685	0.01
39	35:17	1.01	5.000	0.28	1.43	100.00	0.009	0.659	0.01
40	12:33	1.01	10.000	0.13	50.50	50.00	1.564	1.549	1.01
41	31:25	1.00	10.000	0.12	48.48	50.00	0.779	0.803	0.97
42	24:09	1.01	10.000	0.25	52.51	50.00	3.740	3.561	1.05

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 10:39:00 + 5:43
SAMPLE: 5ML SAMPLE #49811 CASE# GEN.TEST EPA#50705F
ENHANCED (5 15B 2H 0T)

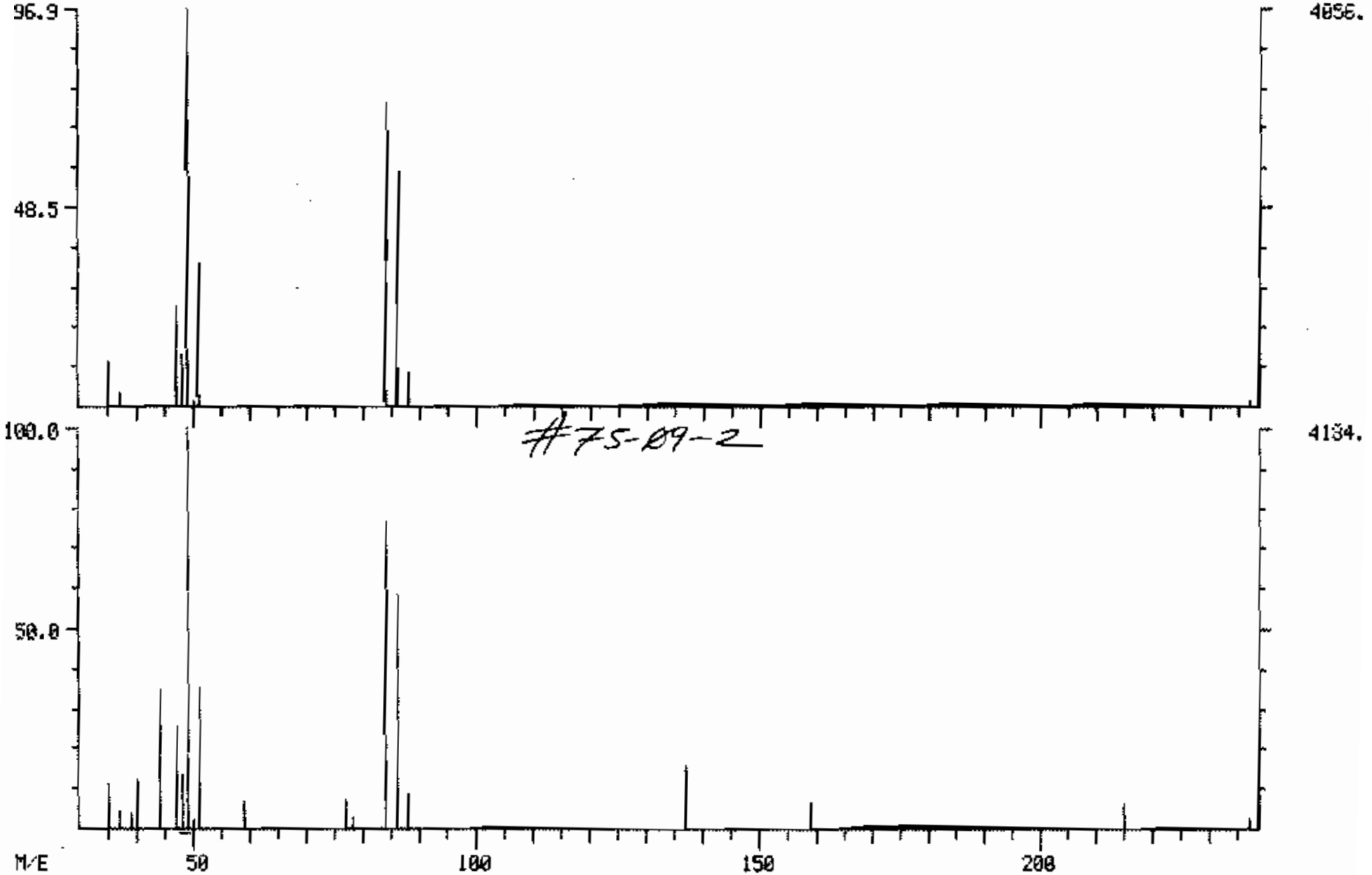
DATA: CN049811812 # 132
BASE M/E: 49
RIC: 13567.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 10:33:00 + 6:43
SAMPLE: 5ML SAMPLE #49011 CASE# GEN.TEST EPA#50705F
ENHANCED (S 150 2N)

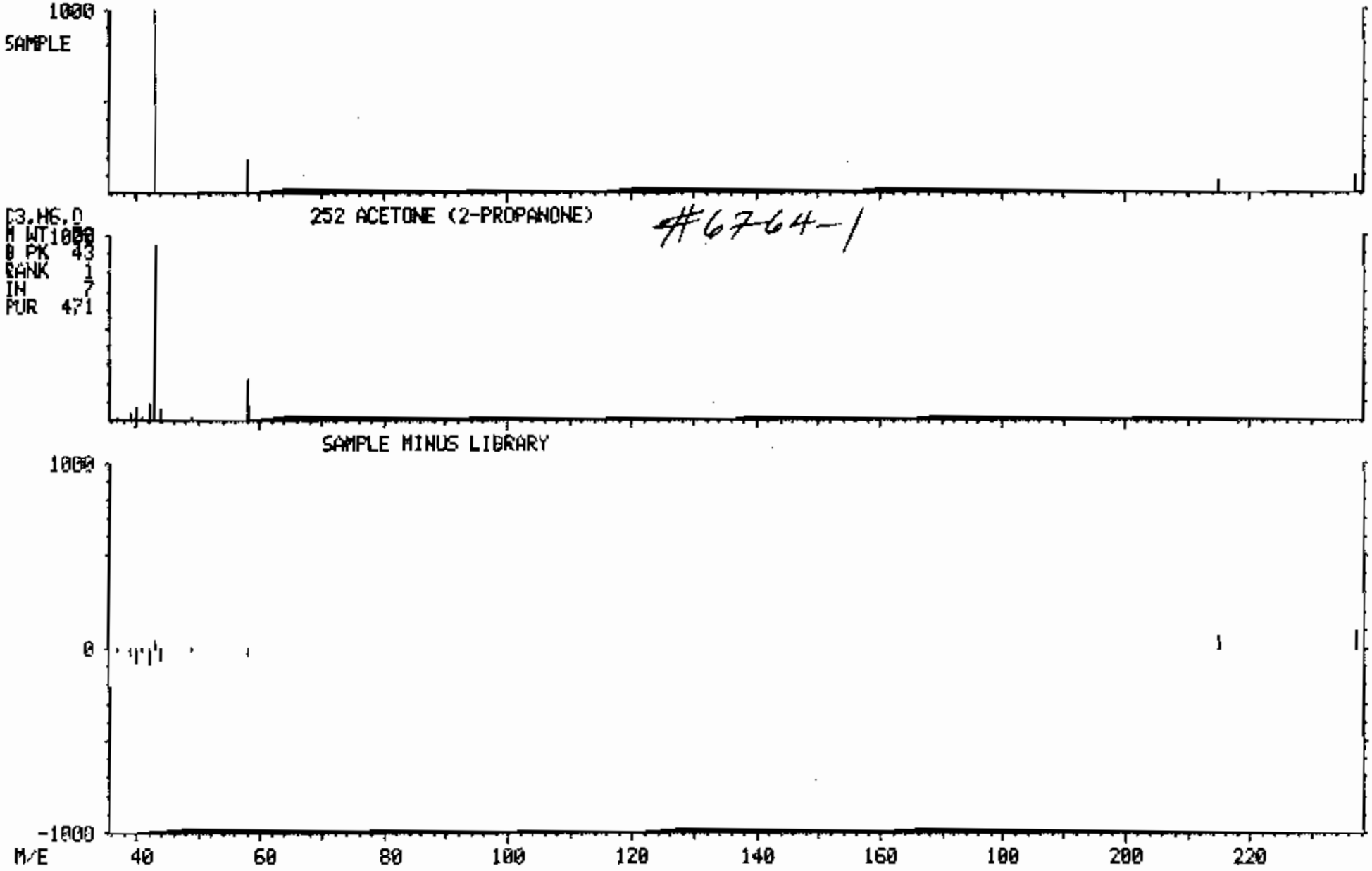
DATA: CN049011B12 #132 BASE M/E: 49/ 49
RIC: 13567./ 16271.



COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 10:33:00 + 7:19
SAMPLE: 5ML SAMPLE #49811 CASE# GEN.TEST EPA#50705F
ENHANCED (S 15B 2N 0T)

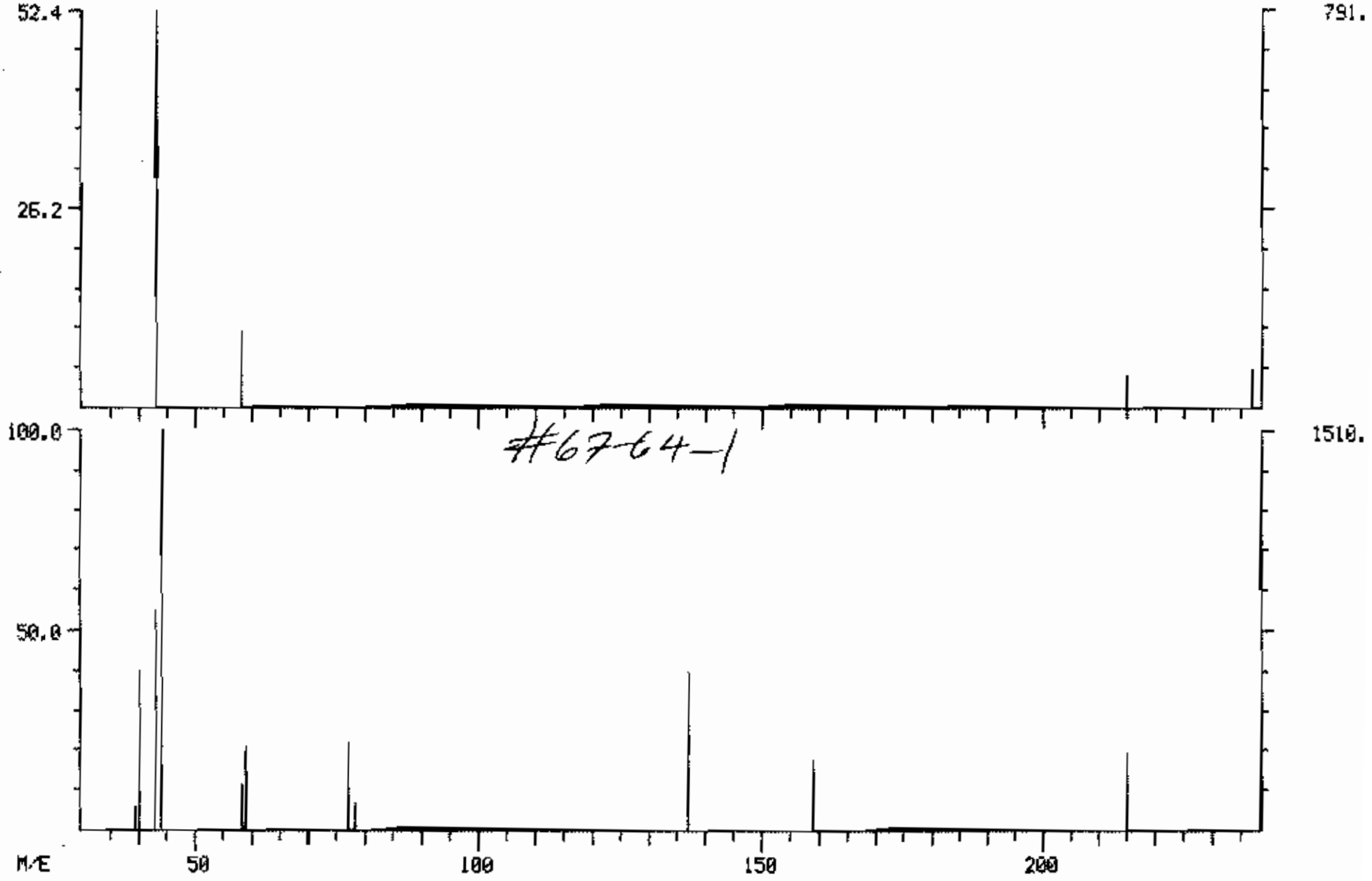
DATA: [illegible]11812 # 144
BASE M/E: 43
RIC: 1075.



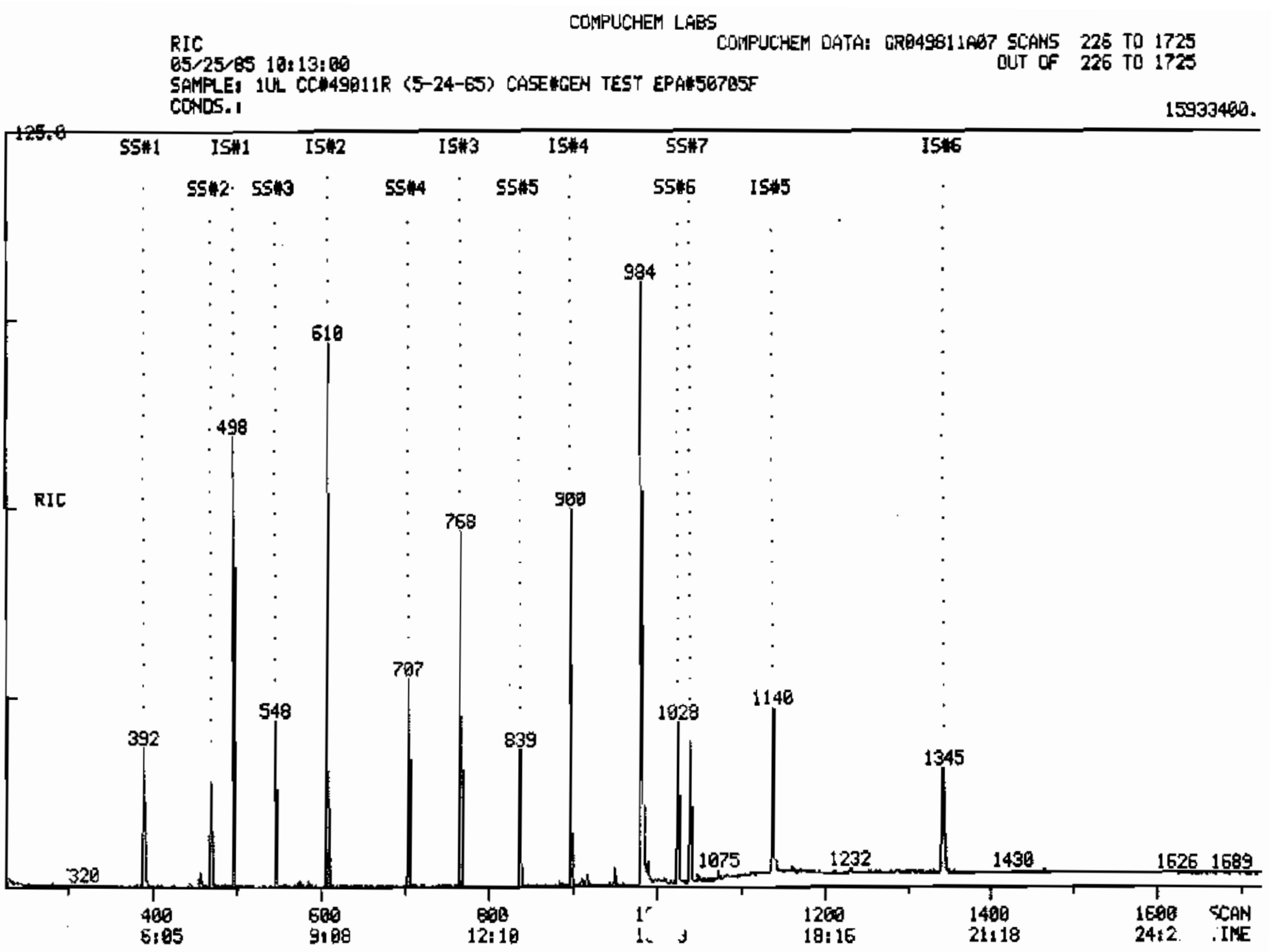
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 18:39:00 + 7:19
SAMPLE: 5ML SAMPLE #43811 CASE# GEN.TEST EPA#50705F
ENHANCED (S 150 2N)

DATA: CN043811B12 #144 BASE M/E: 43/ 44
RIC: 1077./ 5103.



#67-64-1


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GR049811A07 SCANS 226 TO 1725
05/25/85 10:13:00
OUT OF 226 TO 1725
SAMPLE: 1UL CC#49011R (5-24-65) CASE#GEN TEST EPA#50705F
CONDS.:
15933400.
125.0
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
RIC
320
392
498
548
610
707
768
839
900
984
1028
1075
1140
1232
1345
1430
1626
1689
400
5:05
600
9:08
800
12:10
1200
18:16
1400
21:18
1600
24:2
SCAN
TIME

```
ROCEDURE: RK
ATA FILE: GR049B
EFERENCE: SEMI1
  METHOD: SEMI1    INITIALIZATION OPTION: 2    PROCESSING OPTION: 3
  REPORT: SEMI1S1

: -   - STANDARDS ----- >< --- PLUS UNKNOWNS --- >< - LIST NAMES - >
PROC  USED  POSS    RMS   PROC  USED  POSS    RMS  STANDARD/UNKNOWN
   4     4     1     42
    53     8     1     32  SEMI1S1/SEMI1U1
   3     3     1     51     28     8     1     57  BEMI1B2/BEMI1U2

  81 COMPOUNDS PROCESSED, 16 FOUND

: COMPOUND >< ---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >
NO LIB ENTRY   REF  PRED  SEL DELTA PEAKS  FIT PEAKS   M/E  TOP DELTA PEAKS
 1  G1     1  -498   498  498     .     1  956     .  152  498     .     1
 2  G3     1  -768   768  768     .     1  989     .  164  768     .     1
 3  G2     1  -610   610  610     .     1  992     .  136  610     .     1
 4  G7     2  -391   392  392     .     1  910     .  112  392     .     1
 5  G1     2  -256   257    .     .     .    .     .   42  254     .     3
 6  G1     3  -471   471    .     .     .    .     .   94  471     .     1
 7  G1     4  -473   473    .     .     .    .     .   93  473     .     2
 8  G1     5  -478   478    .     .     .    .     .   93  475     .     1
 9  G1     6  -482   482    .     .     .    .     .  128    .     .     .
10  G1     7  -495   495    .     .     .    .     .  146    .     .     .
11  G1     8  -499   499    .     .     .    .     .  146    .     .     .
12  G1     9  -511   511    .     .     .    .     .  108    .     .     .
13  G1    10  -515   515    .     .     .    .     .  146    .     .     .
14  G1    11  -522   522    .     .     .    .     .  108    .     .     .
15  G1    12  -525   525    .     .     .    .     .   45    .     .     .
:   G1    13  -534   534    .     .     .    .     .  108    .     .     .
1.  G1    14  -537   537    .     .     .    .     .   70    .     .     .
18  G1    15  -543   543    .     .     .    .     .  117    .     .     .
19  G1    16  -550   550    .     .     .    .     .   77  548     .     1
20  G2     2  -570   570    .     .     .    .     .   82    .     .     .
21  G2     3  -578   578    .     .     .    .     .  139    .     .     .
22  G2     4  -581   581    .     .     .    .     .  122    .     .     .
23  G2     5  -589   589    .     .     .    .     .  122    .     .     .
24  G2     6  -589   589    .     .     .    .     .   93    .     .     .
25  G2     7  -598   598    .     .     .    .     .  162    .     .     .
26  G2     8  -606   606    .     .     .    .     .  180    .     .     .
27  G2     9  -612   612    .     .     .    .     .  128  609     .     2
28  G2    10  -617   617    .     .     .    .     .  127    .     .     .
29  G2    11  -628   628    .     .     .    .     .  225    .     .     .
30  G2    12  -659   659    .     .     .    .     .  107    .     .     .
31  G2    13  -673   673    .     .     .    .     .  142    .     .     .
32  G3     2  -693   693    .     .     .    .     .  237    .     .     .
33  G3     3  -700   700    .     .     .    .     .  196    .     .     .
34  G3     4  -700   700    .     .     .    .     .  196    .     .     .
35  G3     5  -716   716    .     .     .    .     .  162    .     .     .
36  G3     6  -727   727    .     .     .    .     .   65    .     .     .
37  G3     7  -746   746    .     .     .    .     .  163    .     .     .
38  G3     8  -754   754    .     .     .    .     .  152    .     .     .
39  G3     9  -727   727    .     .     .    .     .  138    .     .     .
40  G3    10  -771   771    .     .     .    .     .  153    .     .     .
    G3    11  -773   773    .     .     .    .     .  184    .     .     .
    G3    12  -785   785    .     .     .    .     .  139    .     .     .
43  G3    13  -785   785    .     .     .    .     .  168    .     .     .
44  G3    14  -787   787    .     .     .    .     .   89    .     .     .
45  G3    15  -752   752    .     .     .    .     .  165    .     .     .
46  G3    16  -809   809    .     .     .    .     .  149  808     .     1
47  G3    17  -815   815    .     .     .    .     .  204    .     .     .
    G3    18  -816   816    .     .     .    .     .  166    .     .     .
```

49	G3	19	-820	820	.	.	.	.	.	136	.	.
50	G7	3	-470	470	470	.	1	917	.	99	470	.
51	G7	4	-548	548	548	.	1	958	.	82	548	.
52	G7	5	-707	707	707	.	1	967	.	172	707	.
53	G7	6	-839	839	839	.	1	934	.	141	839	.
54	G4	1	-900	900	900	.	1	990	.	188	900	.
55	G5	1	-1139	1140	1140	.	1	988	.	240	1140	.
	G6	1	-1342	1345	1345	.	1	996	.	264	1345	.
57	G4	2	-823	823	.	.	.	.	.	198	.	.
58	G4	3	-826	826	.	.	.	.	.	169	.	.
59	G4	4	-858	858	.	.	.	.	.	248	.	.
60	G4	5	-872	872	.	.	.	.	.	284	.	.
61	G4	6	-887	887	.	.	.	.	.	266	.	.
62	G4	7	-902	902	.	.	.	.	.	178	.	.
63	G4	8	-906	906	.	.	.	.	.	178	.	.
64	G4	9	-952	953	953	.	1	955	.	149	953	.
65	G4	10	-1008	1009	.	.	.	.	.	202	.	.
66	G5	2	-1018	1019	.	.	.	.	.	184	.	.
67	G5	3	-1029	1030	.	.	.	.	.	202	.	.
68	G5	4	-1085	1086	.	.	.	.	.	149	1085	.
69	G5	5	-1133	1135	.	.	.	.	.	252	.	.
70	G5	6	-1138	1140	.	.	.	.	.	228	1141	.
71	G5	7	-1139	1141	1140	-1	1	869	.	149	1140	.
72	G5	8	-1142	1144	.	.	.	.	.	228	1141	.
73	G6	2	-1211	1213	1213	.	1	862	.	149	1213	.
74	G6	3	-1281	1283	.	.	.	.	.	252	.	.
75	G6	4	-1281	1283	.	.	.	.	.	252	.	.
76	G6	5	-1333	1336	.	.	.	.	.	252	.	.
77	G6	6	-1585	1589	.	.	.	.	.	276	.	.
78	G6	7	-1590	1594	.	.	.	.	.	278	.	.
79	G6	8	-1659	1663	.	.	.	.	.	276	.	.
80	G7	7	-1040	1041	1042	1	1	985	.	244	1042	.
81	G8	2	-1027	1028	1028	.	1	910	.	212	1028	.

Internal Standard Area Monitor

Method: 6EMI1 Filename: GR049811A07 Date: 05/25/85
Shift Std: HQ850525C07 Time: 10:13

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*** D4-1,4-DICHLOROBENZENE (IS#1)	1947160.	1563640.	25.	Pass
*** D8-NAPHTHALENE (IS#2)	5640120.	4905690.	15.	Pass
*** D10-ACENAPHTHENE (IS#3)	2585910.	2473720.	5.	Pass
*** D10-PHENANTHRENE (IS#4)	4418870.	4007800.	10.	Pass
*** D12-CHRYSENE (IS#5)	2458910.	2657500.	-6.	Pass
*** D12-PERYLENE (IS#6)	2513340.	2356030.	7.	Pass

QUANTITATION REPORT

DATA: QR049811A07.TI
05/25/85 10:13:00
SAMPLE: 1UL CC#49811R (5-24-85) CASE#GEN TEST EPA#50705F
C' 'OS.:
S 1ITTED BY: 07 ANALYST: 644

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

NO	NAME
1	*** D4-1,4-DICHLOROBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	610 PHENOL (G1#3) <108-95-2>
4	473 ANILINE (G1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
6	601 2-CHLOROPHENOL (G1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
9	474 BENZYL ALCOHOL (G1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
11	620 2-METHYLPHENOL (G1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
13	622 4-METHYLPHENOL (G1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
15	436 HEXACHLOROETHANE (G1#15) <67-72-1>
16	440 NITROBENZENE (G1#16) <98-95-3>
17	*** D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (G2#2) <78-59-1>
19	606 2-NITROPHENOL (G2#3) <88-75-5>
	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
	625 BENZOIC ACID (G2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
25	439 NAPHTHALENE (G2#9) <91-20-3>
26	475 4-CHLOROANILINE (G2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
30	*** D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
35	478 2-NITROANILINE (G3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
37	402 ACENAPHTHYLENE (G3#8) <208-96-8>
38	479 3-NITROANILINE (G3#9) <99-09-2>
39	401 ACENAPHTHENE (G3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (G3#11) <51-28-5>
41	607 4-NITROPHENOL (G3#12) <100-02-7>
42	476 DIBENZOFURAN (G3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
^5	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
	### D5-PHENOL (SS#2)
77	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	498	7:35	1	1.000	A BB	1947160.	40.000	NG	10.17
2	42	254	3:52	1	0.510	A*VB	6496.	0.076	NG	0.02
3	94	471	7:10	1	0.946	A BB	3712.	0.040	NG	0.01
4	93	473	7:12	1	0.950	A*BB	2272.	0.027	NG	0.01
5	93	475	7:14	1	0.954	A VB	320.	0.004	NG	0.00
6	128	NOT FOUND								
7	146	NOT FOUND								
8	146	NOT FOUND								
9	108	NOT FOUND								
10	146	NOT FOUND								
11	108	NOT FOUND								
12	45	NOT FOUND								
13	108	NOT FOUND								
14	70	NOT FOUND								
15	117	NOT FOUND								
16	77	548	8:20	1	1.100	A BB	7424.	0.084	NG	0.02
17	136	610	9:17	17	1.000	A BV	5640120.	40.000	NG	10.17
18	82	NOT FOUND								
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
	162	NOT FOUND								
	180	NOT FOUND								
25	128	609	9:16	17	0.998	A*VB	3520.	0.022	NG	0.01
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	NOT FOUND								
29	142	NOT FOUND								
30	164	768	11:41	30	1.000	A BV	2585910.	40.000	NG	10.17
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	NOT FOUND								
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	NOT FOUND								
40	184	NOT FOUND								
41	139	NOT FOUND								
42	168	NOT FOUND								
43	89	NOT FOUND								
44	165	NOT FOUND								
45	149	808	12:18	30	1.052	A BB	18080.	0.171	NG	0.04
46	204	NOT FOUND								
47	166	NOT FOUND								
48	138	NOT FOUND								
	188	900	13:42	49	1.000	A BV	4418870.	40.000	NG	10.17
50	198	NOT FOUND								
51	169	NOT FOUND								
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	NOT FOUND								
55	178	NOT FOUND								
56	178	NOT FOUND								
57	149	953	14:30	49	1.059	A BV	263072.	1.606	NG	0.41
58	202	NOT FOUND								
59	240	1140	17:21	59	1.000	A VV	2458910.	40.000	NG	10.17
60	184	NOT FOUND								
61	202	NOT FOUND								
62	149	1085	16:31	59	0.952	A*VV	27552.	0.540	NG	0.14
63	252	NOT FOUND								
64	228	1141	17:22	59	1.001	A*BB	9472.	0.130	NG	0.03
65	149	1140	17:21	59	1.000	A*VV	111254.	1.324	NG	0.34
66	228	1141	17:22	59	1.001	A*BB	9472.	0.142	NG	0.04
67	264	1345	20:28	67	1.000	A BV	2513340.	40.000	NG	10.17
68	149	1213	18:28	67	0.902	A VV	40350.	0.293	NG	0.07
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
73	278	NOT FOUND								
	276	NOT FOUND								
	112	392	5:58	1	0.787	A BV	1405750.	20.899	NG	5.31

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	470	7:09	1	0.944	A BV	1139800.	13.444	NG	3.42
77	82	548	8:20	17	0.898	A BV	1342430.	17.000	NG	4.32
78	172	707	10:46	30	0.921	A BV	1749590.	18.769	NG	4.77
	141	839	12:46	30	1.092	A BB	220480.	30.791	NG	7.83
[illegible]	244	1042	15:51	59	0.914	A BV	1585820.	23.491	NG	5.97
81	212	1028	15:39	59	0.902	A VV	2113430.	24.552	NG	6.24

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:35	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:54	0.99	10.000	0.05	0.08	50.00	0.003	1.764	0.00
3	7:10	1.00	10.000	0.09	0.04	50.00	0.002	1.901	0.00
4	7:12	1.00	10.000	0.09	0.03	50.00	0.001	1.705	0.00
5	7:16	0.99	10.000	0.10	0.00	50.00	0.000	1.398	0.00
6	7:20		10.000			50.00		1.329	
7	7:32		10.000			50.00		1.574	
8	7:36		10.000			50.00		1.623	
9	7:47		10.000			50.00		0.768	
10	7:50		10.000			50.00		1.461	
11	7:57		10.000			50.00		1.099	
12	7:59		10.000			50.00		2.878	
13	8:08		10.000			50.00		1.225	
14	8:10		10.000			50.00		1.340	
15	8:16		10.000			50.00		0.735	
16	8:22	1.00	10.000	0.11	0.08	50.00	0.003	1.810	0.00
17	9:17	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:40		10.000			50.00		0.981	
19	8:48		10.000			50.00		0.194	
20	8:50		10.000			50.00		0.358	
21	8:58		50.000			50.00		0.165	
	8:58		10.000			50.00		0.485	
[illegible]	9:06		10.000			50.00		0.327	
24	9:13		10.000			50.00		0.386	
25	9:19	1.00	10.000	0.10	0.02	50.00	0.000	1.114	0.00
26	9:23		10.000			50.00		0.306	
27	9:33		10.000			50.00		0.222	
28	10:02		10.000			50.00		0.400	
29	10:14		10.000			50.00		0.688	
30	11:41	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:33		10.000			50.00		0.305	
32	10:39		10.000			100.00		0.388	
33	10:39		50.000			100.00		0.388	
34	10:54		10.000			50.00		1.271	
35	11:04		50.000			50.00		0.389	
36	11:21		10.000			50.00		1.482	
37	11:28		10.000			50.00		1.775	
38	11:04		50.000			50.00		0.408	
39	11:44		10.000			50.00		1.253	
40	11:46		50.000			50.00		0.070	
41	11:57		50.000			50.00		0.895	
42	11:57		10.000			50.00		1.665	
43	11:59		10.000			50.00		0.463	
44	11:27		10.000			50.00		0.293	
45	12:19	1.00	10.000	0.11	0.17	50.00	0.006	1.631	0.00
46	12:24		10.000			50.00		0.598	
47	12:25		10.000			50.00		1.313	
[illegible]	12:29		50.000			50.00		0.166	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:42	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:31		50.000			50.00		0.084	
51	12:34		10.000			50.00		0.476	
	13:03		10.000			50.00		0.212	
	13:16		10.000			50.00		0.297	
54	13:30		50.000			50.00		0.066	
55	13:44		10.000			50.00		1.069	
56	13:47		10.000			50.00		0.999	
57	14:29	1.00	10.000	0.11	1.61	50.00	0.048	1.483	0.03
58	15:20		10.000			50.00		1.042	
59	17:20	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:29		50.000			50.00		0.006	
61	15:40		10.000			50.00		1.619	
62	16:31	1.00	10.000	0.10	0.54	50.00	0.009	0.830	0.01
63	17:14		20.000			50.00		0.182	
64	17:19	1.00	10.000	0.10	0.13	50.00	0.003	1.183	0.00
65	17:20	1.00	10.000	0.10	1.32	50.00	0.036	1.367	0.03
66	17:23	1.00	10.000	0.10	0.14	50.00	0.003	1.084	0.00
67	20:25	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:26	1.00	10.000	0.09	0.29	50.00	0.013	2.193	0.01
69	19:30		10.000			100.00		1.126	
70	19:30		10.000			100.00		1.126	
71	20:17		10.000			50.00		1.029	
72	24:07		10.000			50.00		1.190	
73	24:12		10.000			50.00		0.979	
74	25:15		10.000			50.00		0.961	
75	5:57	1.00	0.742	1.06	20.90	50.00	0.578	1.382	0.42
76	7:09	1.00	0.948	1.00	13.44	50.00	0.468	1.742	0.27
77	8:20	1.00	0.875	1.03	17.00	50.00	0.190	0.560	0.34
	10:46	1.00	0.906	1.02	18.77	50.00	0.541	1.442	0.38
79	12:46	1.00	1.118	0.98	30.79	50.00	0.068	0.111	0.62
80	15:50	1.00	0.907	1.01	23.49	50.00	0.516	1.098	0.47
81	15:38	1.00	0.906	1.00	24.55	50.00	0.688	1.400	0.49

QUANTITATION REPORT FILE: STND

DATA: QR049811A07.TI
05/25/85 10:13:00
SAMPLE: 1UL CC#49811R (5-24-85) CASE#GEN TEST EPA#50705F
C 'S.:
S. .ITTED BY: 07 ANALYST: 644

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	498	7:35	2	0.816	A BV	14747500.	92.261	20.85
2	RIC	610	9:17	2	1.000	A BV	15984500.	100.000	22.60
3	RIC	768	11:41	2	1.259	A BB	12843900.	80.365	18.16
4	RIC	900	13:42	2	1.475	A VB	11793700.	73.782	16.67
5	RIC	1140	17:21	2	1.869	A BV	8395090.	52.520	11.87
6	RIC	1345	20:28	2	2.205	A BV	6974850.	43.635	9.86

QUANTITATION REPORT FILE: UNKNOWN

DATA: GR049811A07.TI
05/25/85 10:13:00
SAMPLE: 1UL CC#49811R (5-24-85) CASE#GEN TEST EPA#50705F
C DS.:
S MITTED BY: 07 ANALYST: 644

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	984	14:58	1	1.000	A BV	26710500.	100.000	*100.

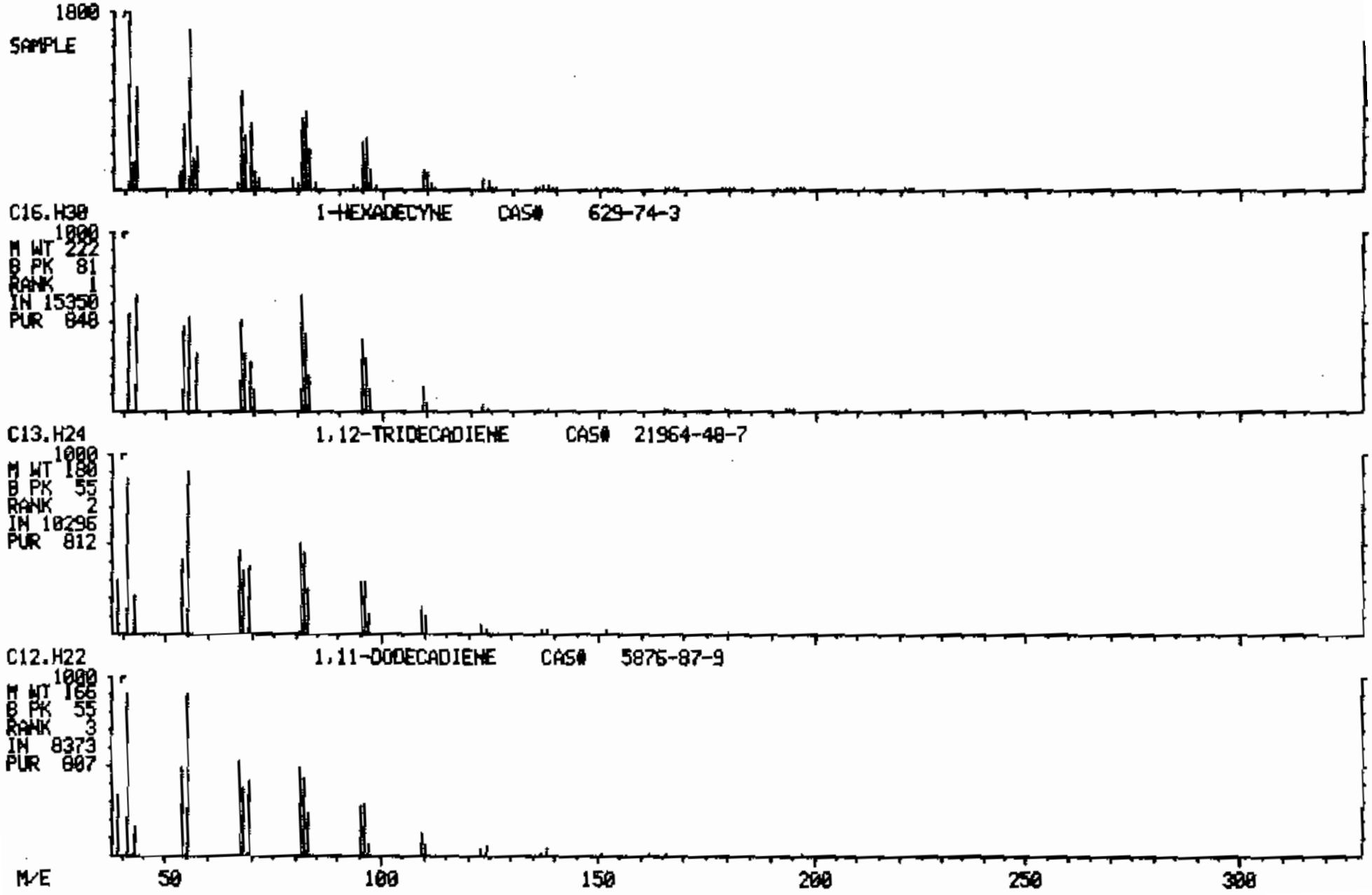
BNA

COMPUCHEM LABS

LIBRARY SEARCH
05/25/85 10:13:00 + 14:58
SAMPLE: 1UL CC#49811R (5-24-85) CASE#GEN TEST EPA#50705F

DATA: GR049811A07 # 984
ENHANCED (10B 2N 0T)

BASE M/E: 41
RIC: 12042200.



CASE#:GEN.TEST DUE DATE: 6/17/85

VOA J1[ ] J3[ ] D1[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 49811 J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: 50705F

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5.0 ul
Surrogate Standard Volume Added 5.0 ul
BFB Filename BF85050912 Disk((2))
Blank Filename CC85050912 Disk ( )
Standard Filename CS85050912 Disk ( )
Sample Filename CN05049811B12 Disk ( )

ANALYST(S): Injection 719 Work-up 719

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR IF,LA,DI,CO,RN,DW,SI,SF UP,BB,OT,VC,FO,SH

Disposition: [X] Complete
[ ] Reinject Neat
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review SLB Date 5/10/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections:_____
Final Reportable Package(s):_____/_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

ENTERED 5/12/85

EPAWATER (11/84)

CASE#: GEN TEST DUE DATE: 6/17

I-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 4981IR

JI [ ] RI[X] DI [ ] (1)

J2I [ ] R2I [ ] D2I [ ] (1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal [illegible] (GC/MS)

BAS: EPA#: 5070SF

GC/MS ANALYSIS
Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1.0 ul
Date of Sample Bottle Analyzed 5/24/85
DFTPP Filename DFTPP52SCa7 Disk (7#)
Standard Filename #6 STD52SCa7 Disk (7#)
Sample Filename GR0498IIAn7 Disk (7#)

ANALYST(S): Injection 644 Work-up 644

GC/MS REVIEW

CONDITION CODE: EA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,NS
ED,IF,LA,DI,CO,RH,DW,DA

Disposition: I [X] Complete

Extraneous Peak Search Results:
# of Peaks Found: 1

[ ] Reinjection required

[ ] Reextraction required

Quality Assurance Notice(s): PK 20
Notices Required 1

[ ] Dilute (11)

COMMENTS:

[X] Reinject Heat

[ ] Send to BA

GC/MS Review [signature] Date 6/25/85 Auditor _____ Date ___/___/___

REPORT INTEGRATION
Final Reportable Package(s): GR

Total # of Injections: _____

BA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW:

Initials _____ Date ___/___/___

ENTERED 5/28

received 5/28/85

EPAWATER (11/84)

(8)

VOLATILE PREP WORKSHEET

№ 1192

ASSIGNED TO Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LID	Screens S	Screens L	Screens M	Comments
49803	-57	gen test			40 mL	5-6-85			X		
49810	"	"	BS		40 mL.	"			X		
49811	"	"			40 mL.	"			X		
49812	"	"			40 mL.	"			X		
49813	"	"			40 mL.	"			X		
49841	"	"			40 mL	↓			X		
49915			B		40 mL.	5-6-85			X		
49916			B		40 mL.	↓			X		
			B								

Surrogate No. 361 / 55
Amount 100 + 200 mL. / 1 mL
Lot 14367 / 14346

Extracts Received 5/6/85 SD

Schedule Reference
Manual Counter 286 / 296

Issued 5/7 PM

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Debrunk

DATE ASSIGNED 5/24/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49806R	-SG	GenTest		SS	119813	500 ml		0.5ml	0.5ml		13	1	5/24	49903 out / 49911, 12, 13, 14, 49916 / 27 / 30
49805R	-			SS		500 ml		0.5ml	0.5ml		13	1	5/24	Spiked 250ml surrogate & diluted 500ml extr. H2O to samples
49811R			NA			1000ml		1.0ml	1.0ml		13	1	5/24	
49812R		↓	NA			1000ml		1.0ml	1.0ml		13	1	5/24	
50168R		4236	BB245			1000ml		1.0ml	1.0ml		13	1	5/24	
50173R			BB246			1000ml		1.0ml	1.0ml		13	1	5/24	
50180R		↓	BB249			1000ml		1.0ml	1.0ml		13	1	5/24	
51625				S1		1000ml		1.0ml	1.0ml		13	1	5/24	
51626	↓			S2		1000ml		1.0ml	1.0ml		13	1	5/24	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	14693					
SPIKE	NO.		2012	2021			
	AMT.		0.25ml	0.25ml			
	LOT		14655	14657			

MANUAL COUNTER 272/463

FINAL VOLUME VERIFIED OK

SUPERVISOR REVIEWED OK

EXTRACTS RECEIVED BY TD 5/24/85

Issued 5/24/85 TSD

Nº 6218

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.6		J B	5.0
7	252	___	ACETONE (2-PROPANONE)	6.1		J	10.0
8	234	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLORDETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLORDPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P
40		D4-1,2-DICHLOROETHANE	50.5	50.0	101.0	77-120	X
41		BROMOFLUOROBENZENE	48.5	50.0	97.0	85-121	X
42		DB-TOLUENE	52.5	50.0	105.0	86-119	X

* Advisory surrogate only
++ % Recovery = Quant Report Value / Quant Report Amount Spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	X	

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report Amount Spiked Conversion Factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(*) (ug/l)	Detection Limit (ug/l)
2	441	___	N-NITROSODIMETHYLAMINE (G1#2) <62-			BDL	20.0
3	610	___	PHENOL (G1#3) <108-95-2>			BDL	20.0
4	473	___	ANILINE (G1#4) <62-53-3>			BDL	20.0
5	411	___	BIS(2-CHLOROETHYL)ETHER (G1#5) <11			BDL	20.0
6	601	___	2-CHLOROPHENOL (G1#6) <95-57-8>			BDL	20.0
7	421	___	1,3-DICHLOROBENZENE (G1#7) <541-73			BDL	20.0
8	422	___	1,4-DICHLOROBENZENE (G1#8) <106-46			BDL	20.0
9	474	___	BENZYL ALCOHOL (G1#9) <100-51-6>			BDL	20.0
10	420	___	1,2-DICHLOROBENZENE (G1#10) <95-50			BDL	20.0
11	620	___	2-METHYLPHENOL (G1#11) <95-48-7>			BDL	20.0
12	412	___	BIS(2-CHLOROISOPROPYL)ETHER (G1#12			BDL	20.0
13	622	___	4-METHYLPHENOL (G1#13) <106-44-5>			BDL	20.0
14	442	___	N-NITROSO-DI-N-PROPYLAMINE (G1#14)			BDL	20.0
15	436	___	HEXACHLOROETHANE (G1#15) <67-72-1>			BDL	20.0
16	440	___	NITROBENZENE (01#16) <98-95-3>			BDL	20.0
18	438	___	ISOPHORONE (G2#2) <78-59-1>			BDL	20.0
19	606	___	2-NITROPHENOL (G2#3) <88-75-5>			BDL	20.0
20	603	___	2,4-DIMETHYLPHENOL (G2#4) <105-67-			BDL	20.0
21	625	___	BENZOIC ACID (G2#5) <65-85-0>			BDL	100.0
22	410	___	BIS(2-CHLOROETHOXY)METHANE (G2#6)			BDL	20.0
23	602	___	2,4-DICHLOROPHENOL (G2#7) <120-83-			BDL	20.0
24	446	___	1,2,4-TRICHLOROBENZENE (G2#8) <120			BDL	20.0
25	439	___	NAPHTHALENE (G2#9) <91-20-3>			BDL	20.0
26	475	___	4-CHLOROANILINE (G2#10) <106-47-8>			BDL	20.0
	434	___	HEXACHLOROBUTADIENE (G2#11) <87-68			BDL	20.0
28	608	___	P-CHLORO-M-CRESOL (G2#12) <59-50-7			BDL	20.0
29	477	___	2-METHYLNAPHTHALENE (G2#13) <91-57			BDL	20.0
31	435	___	HEXACHLOROCYCLOPENTADIENE (G3#2) <			BDL	20.0
32	611	___	2,4,6-TRICHLOROPHENOL (G3#3) <88-0			BDL	20.0
33	626	___	2,4,5-TRICHLOROPHENOL (G3#4) <95-9			BDL	100.0
34	416	___	2-CHLORONAPHTHALENE (G3#5) <91-58-			BDL	20.0
35	478	___	2-NITROANILINE (G3#6) <88-74-4>			BDL	100.0
36	425	___	DIMETHYL PHTHALATE (G3#7) <131-11-			BDL	20.0
37	402	___	ACENAPHTHYLENE (G3#8) <208-96-8>			BDL	20.0
38	479	___	3-NITROANILINE (G3#9) <99-09-2>			BDL	100.0
39	401	___	ACENAPHTHENE (G3#10) <83-32-9>			BDL	20.0
40	605	___	2,4-DINITROPHENOL (G3#11) <51-28-5			BDL	100.0
41	607	___	4-NITROPHENOL (G3#12) <100-02-7>			BDL	100.0
42	476	___	DIBENZOFURAN (G3#13) <132-64-9>			BDL	20.0
43	427	___	2,4-DINITROTOLUENE (G3#14) <121-14			BDL	20.0
44	428	___	2,6-DINITROTOLUENE (G3#15) <606-20			BDL	20.0
45	424	___	DIETHYL PHTHALATE (G3#16) <84-66-2			BDL	20.0
46	417	___	4-CHLOROPHENYL PHENYL ETHER (G3#17			BDL	20.0
47	432	___	FLUORENE (G3#18) <86-73-7>			BDL	20.0
48	480	___	4-NITROANILINE (G3#19) <100-01-6>			BDL	100.0
50	604	___	4,6-DINITRO-2-METHYLPHENOL (G4#2)			BDL	100.0
51	443	___	N-NITROSODIPHENYLAMINE (G4#3) <86-			BDL	20.0
52	414	___	4-BROMOPHENYL PHENYL ETHER (G4#4)			BDL	20.0
53	433	___	HEXACHLOROBENZENE (G4#5) <118-74-1			BDL	20.0
54	609	___	PENTACHLOROPHENOL (G4#6) <87-86-5>			BDL	100.0
	444	___	PHENANTHRENE (G4#7) <85-01-8>			BDL	20.0
56	403	___	ANTHRACENE (G4#8) <120-12-7>			BDL	20.0
57	426	___	DI-N-BUTYL PHTHALATE (G4#9) <84-74			BDL	20.0
58	431	___	FLUORANTHENE (G4#10) <206-44-0>			BDL	20.0

	CC IO#	Lab Cde	Compound Name	Quant Report Value	X	Result(*) (ug/l)	Detection Limit (ug/l)
60	404	___	BENZIDINE (Q5#2) <92-87-5>			BDL	100.0
61	445	___	PYRENE (Q5#3) <129-00-0>			BDL	20.0
62	415	___	BUTYLBENZYL PHTHALATE (Q5#4) <85-6			BDL	20.0
63	423	___	3,3'-DICHLOROBENZIDINE (Q5#5) <91-			BDL	40.0
64	405	___	BENZO(A)ANTHRACENE (Q5#6) <56-55-3			BDL	20.0
65	413	___	BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7)			BDL	20.0
66	418	___	CHRYSENE (Q5#8) <218-01-9>			BDL	20.0
68	429	___	DI-N-OCTYL PHTHALATE (Q6#2) <117-8			BDL	20.0
69	407	___	BENZO(B)FLUORANTHENE (Q6#3) <205-9			BDL	20.0
70	409	___	BENZO(K)FLUORANTHENE (Q6#4) <207-0			BDL	20.0
71	406	___	BENZO(A)PYRENE (Q6#5) <50-32-8>			BDL	20.0
72	437	___	INDENO(1,2,3-C,D)PYRENE (Q6#6) <19			BDL	20.0
73	419	___	DIBENZO(A,H)ANTHRACENE (Q6#7) <53-			BDL	20.0
74	408	___	BENZO(G,H,I)PERYLENE (Q6#8) <191-2			BDL	20.0

No.	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
75	##	2-FLUOROPHENOL (SS#1)	20.9	50.0	42.0	23-121	X	
76	##	D5-PHENOL (SS#2)	13.4	50.0	27.0	15-103	X	
77	##	D5-NITROBENZENE (SS#3)	17.0	25.0	68.0	41-120	X	
78	##	2-FLUOROBIPHENYL (SS#4)	16.8	25.0	75.0	44-119	X	
79	##	2,4,6-TRIBROMOPHENOL (SS#5)	30.8	50.0	62.0	10-130	X	
80	##	D14-TERPHENYL (SS#6)	23.5	25.0	94.0	33-126	X	
81	##	D10 PYRENE	24.6	25.0	98.0	33-128e	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#52) D10-Phenanthrene > 40000 Cnts ___ ___

Correction Factor Calculation:

$$\frac{\text{Final Extract Volume (ml)}}{\text{1.0ml for Acid \& 1.0ml for BN}} \times \frac{\text{1000 ml}}{\text{Vol Sample Extracted (ml)}} \times \text{Dilution Factor} \times 2 =$$

$$\frac{\text{1.0ml}}{\text{1.0ml \& 1.0ml}} \times \frac{\text{1000.ml}}{\text{1000.ml}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

Quant Report amount spiked conversion factor:

$$\frac{\text{500 ul}}{\text{Amount Surrogate Added (ul)}} \times \frac{\text{Final Extract Vol (ml)}}{\text{1.0ml for Acid \& 1.0ml for BN}} \times \text{GCMS Dilution Factor} \times 2 =$$

$$\frac{\text{500 ul}}{\text{500 ul}} \times \frac{\text{1.0ml}}{\text{1.0ml \& 1.0ml}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

QUALITY ASSURANCE NOTICE
sample # 4780
fraction SV

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 781

SV
5/21

QAN10S
850218

GC SCREEN DATA SHEET

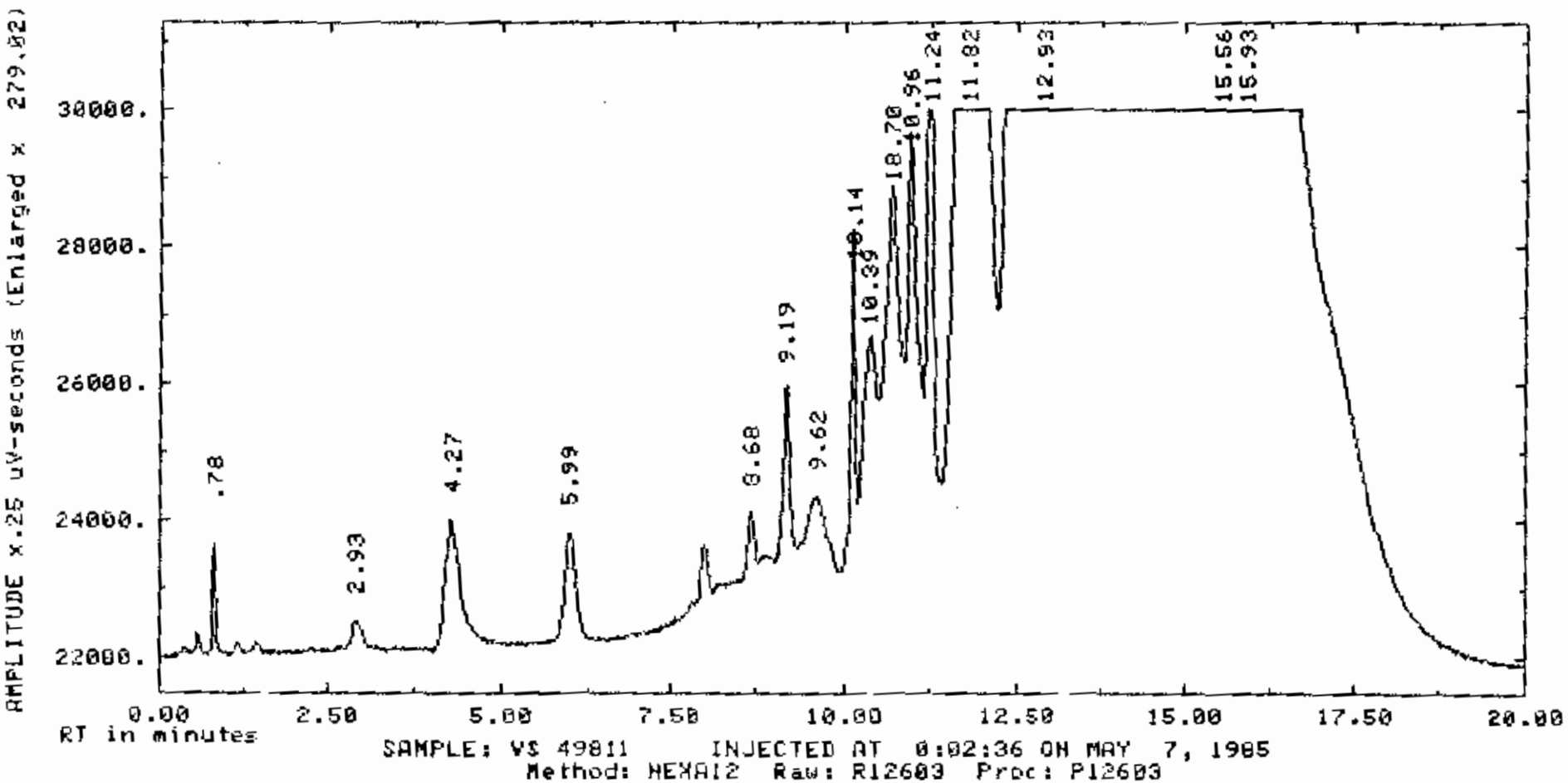
Laboratory Name CompuChem

Case Number Geo Test

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
50705F cc# 49811	VOA B/N/A Pesticides Dioxin	ND	5-7-85	L
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			

*Answer Yes or No.
**Indicate "M" for medium level GC/MS analysis.
Indicate "L" for low level GC/MS analysis.

50705F


AMPLITUDE x.25 uV-seconds (Enlarged x 279.62)
30000.
28000.
26000.
24000.
22000.
.78
2.93
4.27
5.99
8.68
9.19
9.62
10.14
10.39
10.70
10.96
11.24
11.82
12.93
15.56
15.93
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 49811 INJECTED AT 0:02:36 ON MAY 7, 1985
Method: HEXA12 Raw: R12603 Proc: P12603

Report: 4057.00 Channel: 12

Sample: VS 49811 Injected at 0:02:36 ON MAY 7, 1985

RO Method: HEXA12 Seq: SEQ126 Subsq/Samp: 1/ 3 Btl: 3

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.008 minutes

Signal > 1 volt
Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.78	0.00	.10000E+01	2376.	BB	.003	
2.93	0.00	.10000E+01	1097.	BB	.001	
4.27	0.00	.10000E+01	12401.	BB	.014	
5.99	0.00	.10000E+01	9268.	BB	.010	
8.68	0.00	.10000E+01	1567.	BB	.002	
9.19	0.00	.10000E+01	7268.	BB	.008	
9.62	0.00	.10000E+01	7682.	BH	.009	
10.14	0.00	.10000E+01	12658.	HH	.014	
10.39	0.00	.10000E+01	22766.	HH	.026	
10.70	0.00	.10000E+01	41614.	HH	.047	
10.96	0.00	.10000E+01	32400.	HH	.037	
11.24	0.00	.10000E+01	34365.	HH	.039	
11.82	0.00	.10000E+01	249870.	HH	.282	
12.93	0.00	.10000E+01	87817936.	HS	99.089	
15.56	0.00	.10000E+01	59448.	TV	.067	
5.93	0.00	.10000E+01	312209.	VT	.352	

Total Area = 88624912. Total AREA % = 312209.250

Processed data file: P12603 Raw data file: R12603

5705

III. SAMPLE DATA PACKAGE

CASE NO. Ben Destiny

SAMPLE NO. 50705-G = COMPUCHEM NO. 49861

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
3. Raw Data — in order: VOA, BNA, Pesticide

1. HSL Results — Organic Analysis Data Sheels (Form I)

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
56705-6

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ConocoChem
Lab Sample ID No: CN049B61B12
Sample matrix: liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601 PLATINUM
Date Sample
Received: 05-06-85

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-09-85
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	3.5	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

Environmental Protection Agency, D.C. Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
50715-2

Organics Analysis Data Sheet
(Page 2)

Laboratory Name: Compuchem

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 5-7-85
Date analyzed: 5-19-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from Diphenylamine

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
50705-G

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	629-74-3	Lab Artifact ~~OCTADECANE, UNSATURATED~~ 1-HEXADECYNE	SEMI1	980	58.	J B

5-28-85

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

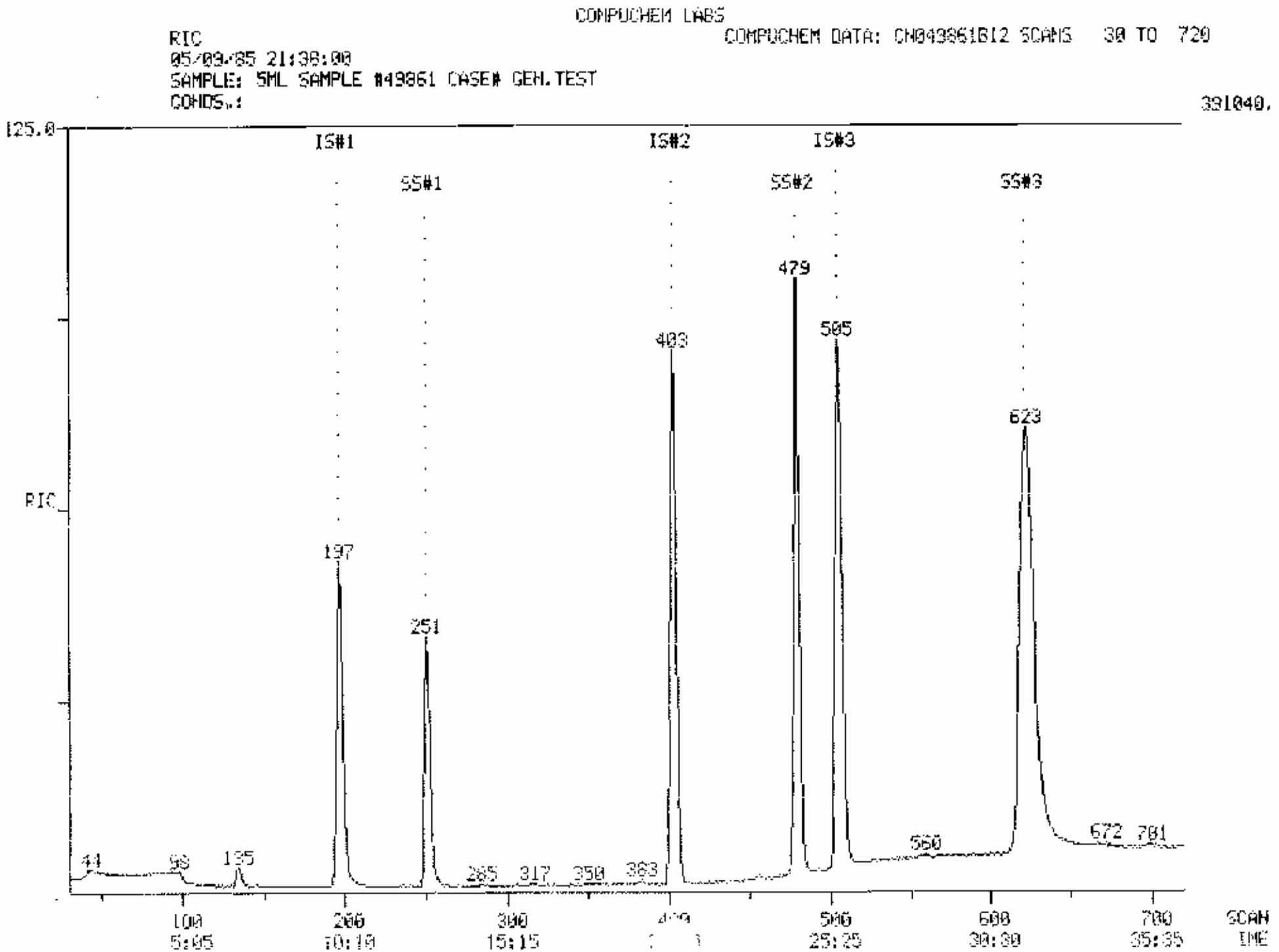
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN043861B12 SCANS 30 TO 720
05/09/85 21:38:00
SAMPLE: SML SAMPLE #43861 CASE# GEN.TEST
CONDS.:
391040.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
505
403
623
RIC
197
251
44
98
135
285
317
350
383
560
672
701
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/85 22:25:59
DATA FILE: CN049861B12
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS				PLUG UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	0	42	7	1	0	E23TS/E23TU

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIS	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-193	197	197	.	1	972	.	128	197	.	1
2	E2	1	-399	403	403	.	1	993	.	114	403	.	.
3	E3	1	-501	505	505	.	1	980	.	117	505	.	1
4	E1	2	-34	38	.	.	.	.	.	50	.	.	
5	E1	3	-54	58	.	.	.	.	.	94	.	.	.
6	E1	4	-69	73	.	.	.	.	.	62	.	.	
7	E1	5	-89	93	.	.	.	.	.	64	.	.	
8	E1	6	-131	135	135	.	1	922	.	84	135	.	1
9	E1	7	-143	147	.	.	.	.	.	43	146	.	1
10	E1	8	-162	166	.	.	.	.	.	76	.	.	
11	E1	9	-185	189	.	.	.	.	.	96	.	.	
12	E1	10	-210	214	.	.	.	.	.	63	.	.	
13	E1	11	-224	228	.	.	.	.	.	96	.	.	
14	E1	12	-234	238	.	.	.	.	.	83	238	.	.
15	E1	13	-249	253	.	.	.	.	.	62	253	.	1
16	E2	2	-247	251	.	.	.	.	.	72	252	.	1
17	E2	3	-276	280	.	.	.	.	.	97	.	.	
18	E2	4	-284	288	.	.	.	.	.	117	.	.	
19	E2	5	-285	289	.	.	.	.	.	43	.	.	
20	E2	6	-293	297	.	.	.	.	.	83	.	.	
21	E2	7	-321	325	.	.	.	.	.	63	.	.	
22	E2	8	-326	330	.	.	.	.	.	75	.	.	
23	E2	9	-337	341	.	.	.	.	.	130	.	.	
24	E2	10	-349	353	.	.	.	.	.	129	.	.	
25	E2	11	-351	355	.	.	.	.	.	97	.	.	
26	E2	12	-347	351	.	.	.	.	.	78	352	.	1
27	E2	13	-351	355	.	.	.	.	.	75	.	.	
28	E2	14	-373	377	.	.	.	.	.	63	.	.	
29	E2	15	-403	407	.	.	.	.	.	173	.	.	
30	E3	2	-414	418	.	.	.	.	.	43	.	.	
31	E3	3	-446	450	.	.	.	.	.	43	.	.	
32	E3	4	-451	455	.	.	.	.	.	164	.	.	
33	E3	5	-450	454	.	.	.	.	.	83	455	.	1
34	E3	6	-479	483	.	.	.	.	.	92	483	.	1
35	E3	7	-504	508	.	.	.	.	.	112	509	.	1
36	E3	8	-553	557	.	.	.	.	.	106	559	.	2
37	E3	9	-658	662	.	.	.	.	.	104	665	.	3
38	E3	10	-667	671	.	.	.	.	.	106	671	.	3
39	E3	11	-694	698	.	.	.	.	.	106	699	.	2
40	E4	2	-247	251	251	.	1	968	.	65	251	.	1
41	E4	3	-618	622	622	.	1	992	.	95	622	.	1
42	E4	4	-475	479	479	.	1	991	.	98	479	.	1

Internal Standard Area Monitor

Method: E237 Filename: CN049861B12 Date: 05/09/85
Shift Std: CS850509B12 Time: 21:38

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	114353.	135437.	-15.	Pass
* 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)	461076.	312684.	-7.	Pass
* D5 CHLOROBENIENE(INTERNAL STANDARD)	431064.	467377.	-7.	Pass

QUANTITATION REPORT FILE: CN049861B12

DATA: CN049861B12.TI
05/09/85 21:38:00
SAMPLE: 5ML SAMPLE #49861 CASE# GEN.TEST
NOS.:
SUBMITTED BY: 12 ANALYST: 719

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLORDETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	197	10:01	1	1.000	A BB	114356.	50.000 UG/L	15.63
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	94	NOT FOUND							
4	62	NOT FOUND							
5	64	NOT FOUND							
6	84	135	6:52	1	0.605	A BB	9179.	3.581 UG/L	1.12
7	43	146	7:25	1	0.741	A BB	1386.	2.801 UG/L	0.88
8	76	NOT FOUND							
9	96	NOT FOUND							
10	63	NOT FOUND							
11	96	NOT FOUND							
12	83	238	12:06	1	1.208	A BB	432.	0.078 UG/L	0.02
13	62	253	12:52	1	1.284	A BB	3477.	0.981 UG/L	0.31
14	114	403	20:29	14	1.000	A BV	461097.	50.000 UG/L	15.63
15	72	252	12:49	14	0.625	A BB	701.	3.092 UG/L	0.97
16	97	NOT FOUND							
17	117	NOT FOUND							
18	43	NOT FOUND							
19	83	NOT FOUND							
20	63	NOT FOUND							
21	75	NOT FOUND							
22	130	NOT FOUND							
23	129	NOT FOUND							
24	97	NOT FOUND							
25	78	352	17:54	14	0.873	A BB	3551.	0.569 UG/L	0.18
26	75	NOT FOUND							
27	83	NOT FOUND							
28	173	NOT FOUND							
29	117	505	25:40	29	1.000	A BB	431065.	50.000 UG/L	15.63
30	43	NOT FOUND							
31	43	NOT FOUND							
32	164	NOT FOUND							
33	83	455	23:08	29	0.901	A BB	1300.	0.311 UG/L	0.10
34	92	483	24:33	29	0.956	A BB	1971.	0.391 UG/L	0.12
35	112	509	25:52	29	1.008	A BB	2613.	0.319 UG/L	0.10
36	106	559	28:25	29	1.107	A*BB	455.	0.104 UG/L	0.03
37	104	665	33:48	29	1.317	A*BB	2679.	0.254 UG/L	0.08
38	106	671	34:07	29	1.329	A*BB	1047.	0.177 UG/L	0.06
39	106	699	35:32	29	1.384	A*BV	2564.	0.452 UG/L	0.14
40	62	251	12:46	1	1.274	A BV	188698.	53.262 UG/L	16.65
41	95	622	31:37	29	1.232	A BB	341704.	49.348 UG/L	15.43
42	98	479	24:21	1	2.431	A BV	441291.	54.186 UG/L	16.94

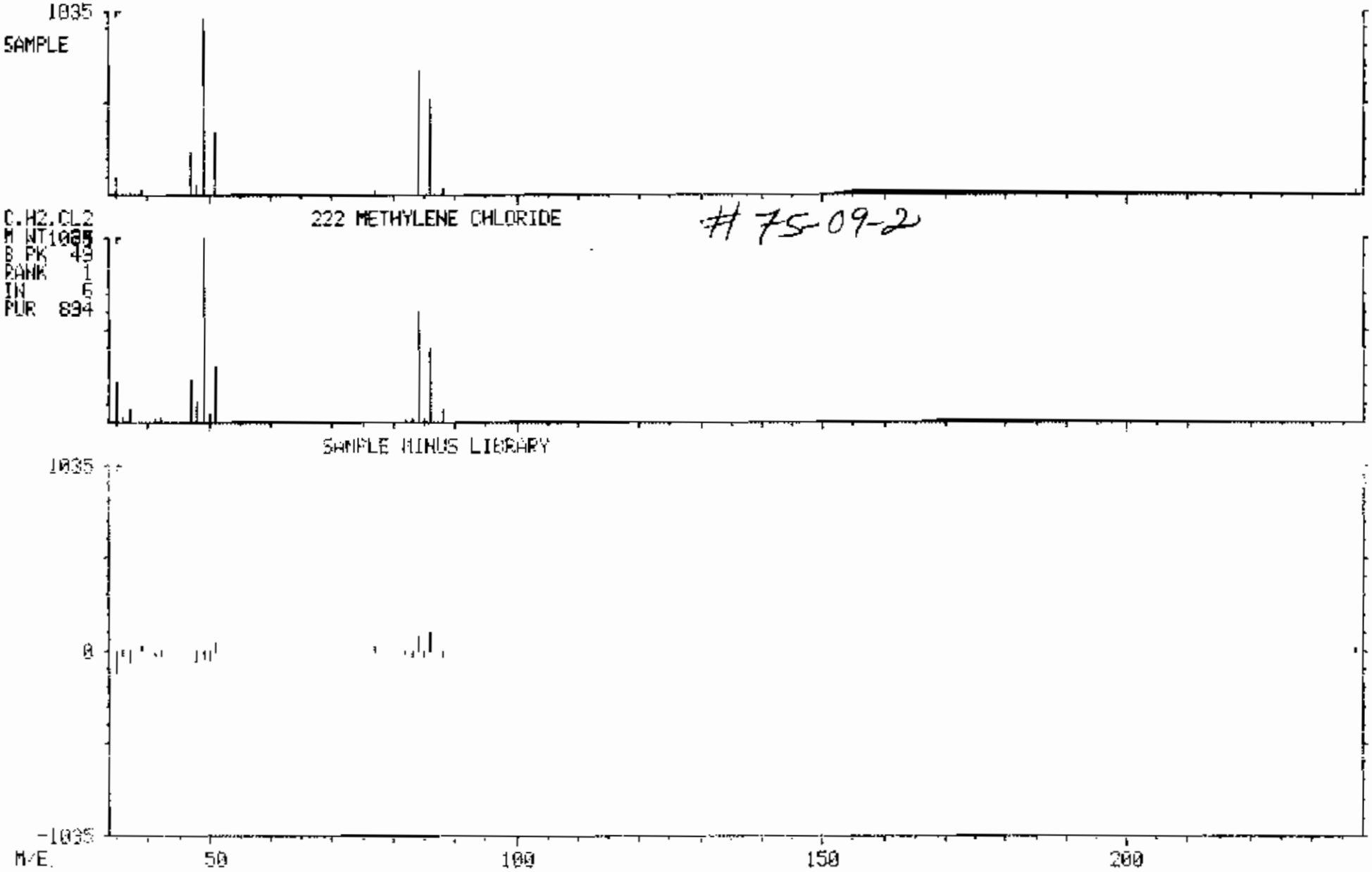
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:49	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:44		10.000			50.00		0.880	
3	2:45		10.000			50.00		1.474	
4	3:30		10.000			50.00		1.198	
5	4:31		10.000			50.00		0.626	
6	6:40	1.03	5.000	0.14	3.58	50.00	0.080	1.121	0.07
7	7:16	1.02	10.000	0.07	2.80	50.00	0.012	0.216	0.06
8	8:14		5.000			50.00		3.133	
9	9:24		5.000			50.00		1.062	
10	10:40		5.000			50.00		1.852	
11	11:23		5.000			50.00		1.077	
12	11:54	1.02	5.000	0.24	0.08	50.00	0.004	2.421	0.00
13	12:39	1.02	5.000	0.26	0.90	50.00	0.030	1.550	0.02
14	29:17	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33	1.02	10.000	0.06	3.09	50.00	0.002	0.025	0.06
16	14:02		5.000			50.00		0.515	
17	14:26		5.000			50.00		0.546	
18	14:29		10.000			50.00		0.417	
19	14:54		5.000			50.00		0.596	
20	16:19		5.000			50.00		0.335	
21	16:34		5.000			50.00		0.234	
22	17:08		5.000			50.00		0.490	
23	17:44		5.000			50.00		0.541	
24	17:51		5.000			50.00		0.303	
25	17:38	1.01	5.000	0.17	0.57	50.00	0.008	0.676	0.01
26	17:51		5.000			50.00		0.638	
27	16:58		10.000			50.00		0.190	
28	20:29		5.000			50.00		0.467	
29	25:28	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:03		10.000			50.00		0.289	
31	22:40		10.000			50.00		0.188	
32	22:56		5.000			50.00		0.538	
33	22:52	1.01	5.000	0.18	0.31	50.00	0.003	0.486	0.01
34	24:21	1.01	5.000	0.19	0.39	50.00	0.005	0.585	0.01
35	28:37	1.01	5.000	0.20	0.32	50.00	0.006	0.952	0.01
36	28:07	1.01	5.000	0.22	0.10	50.00	0.001	0.507	0.00
37	33:27	1.01	5.000	0.26	0.25	50.00	0.006	1.226	0.01
38	33:54	1.01	5.000	0.27	0.18	50.00	0.002	0.685	0.00
39	35:17	1.01	5.000	0.28	0.45	100.00	0.003	0.659	0.00
40	12:33	1.02	10.000	0.13	33.26	50.00	1.650	1.549	1.07
41	31:25	1.01	10.000	0.12	45.35	50.00	0.793	0.803	0.99
42	24:09	1.01	10.000	0.24	54.19	50.00	3.859	3.561	1.08

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 21:38:00 + 6:52
SAMPLE: 5ML SAMPLE #49861 CASE# GEN.TEST
ENHANCED (S 15B 2N 0T)

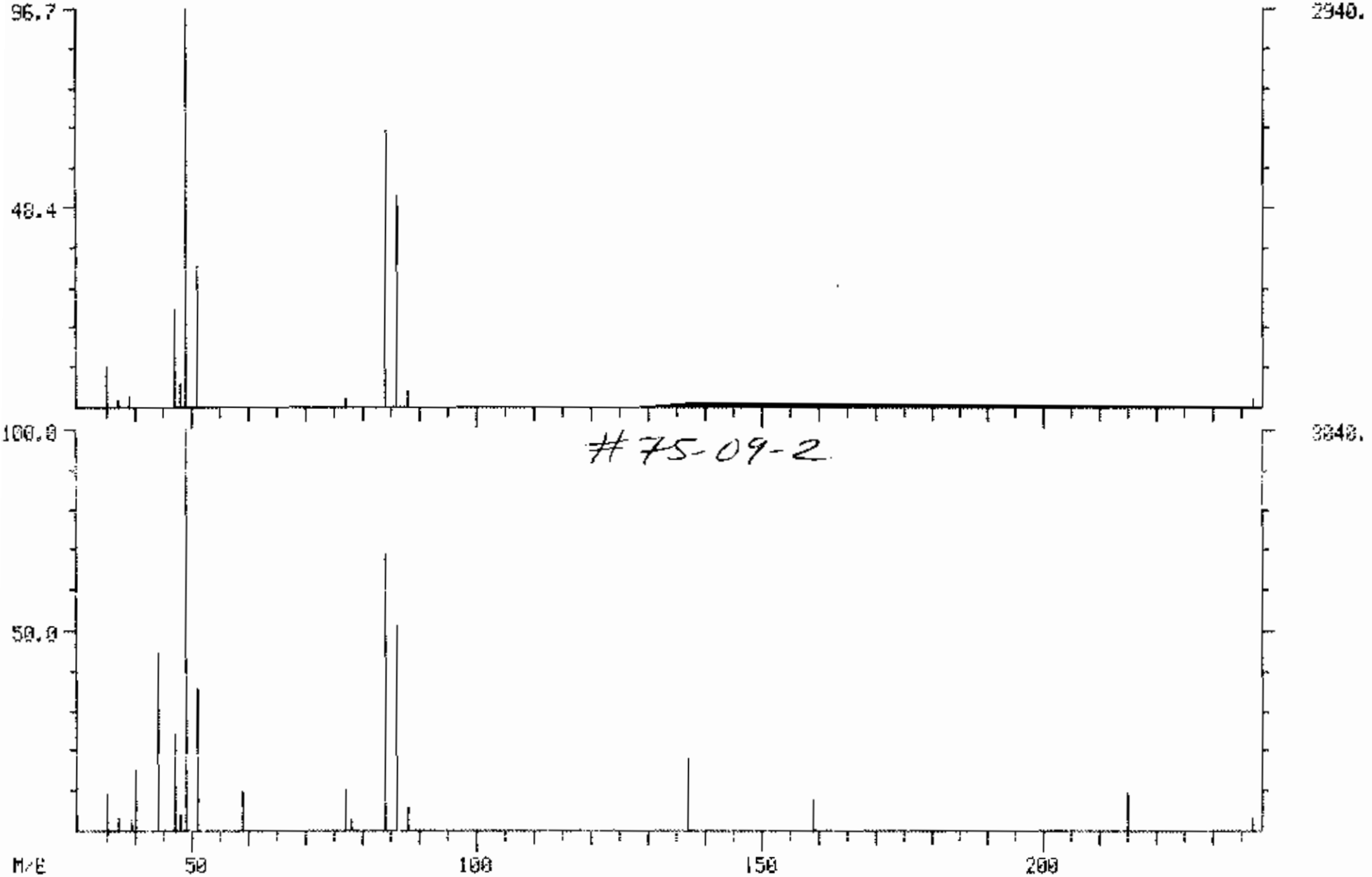
DATA: CN049861B12 # 135
BASE M/E: 49
RIC: 9135.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/03/85 21:38:00 + 6:52
SAMPLE: 5ML SAMPLE #49861 CASE# GEN.TEST
ENHANCED (S 15B 2N)

DATA: CH04986IB12 #135 BASE M/E: 49/ 49
RIC: 9135./ 12975.



#75-09-2

COMPUCHEM LABS

RIC

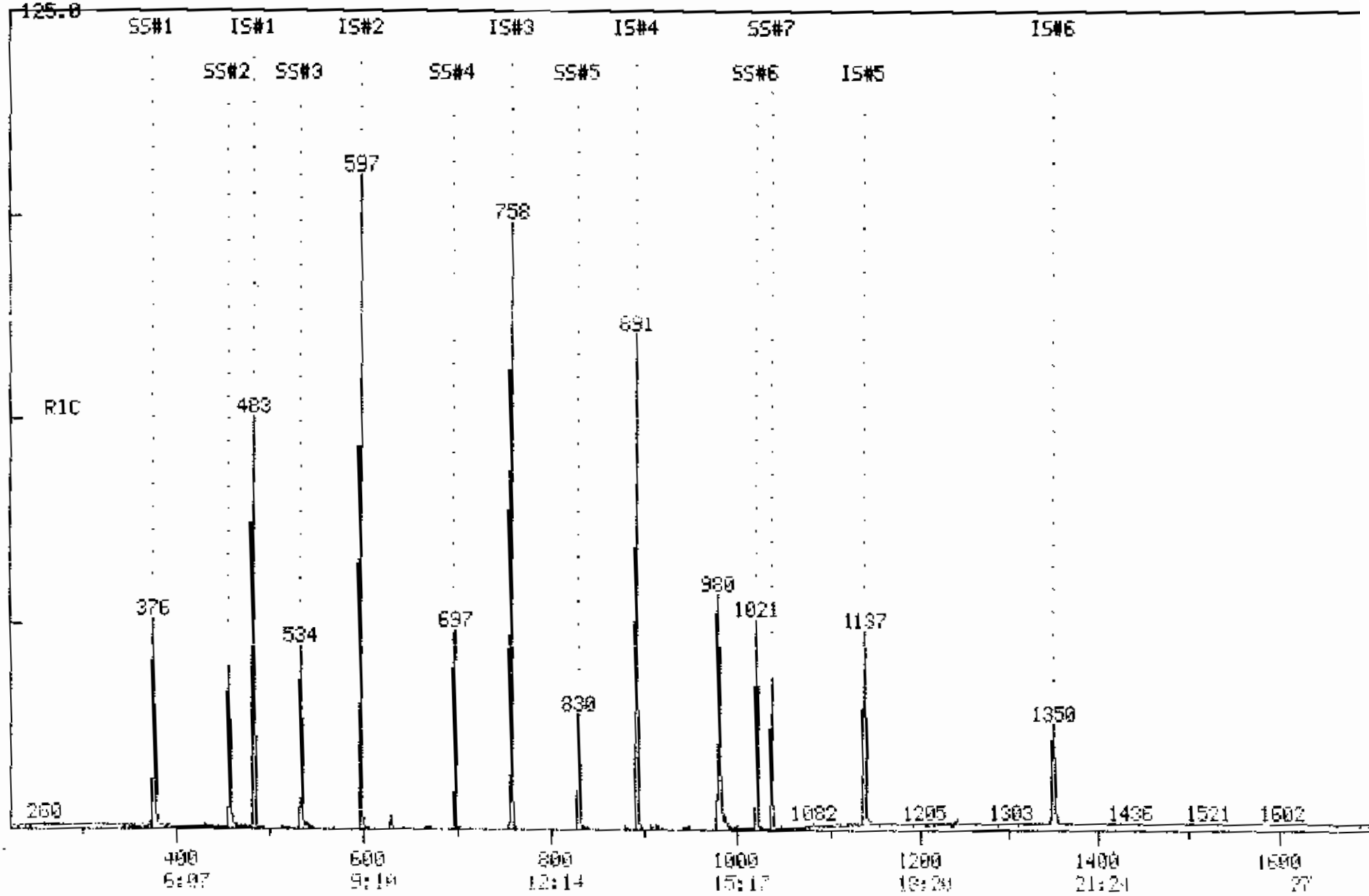
05/19/85 17:18:00

SAMPLE: 1UL CC#49861 (5-7-85) CASE#GENTEST EPA#50705-G

CONDS.:

COMPUCHEM DATA: GJ049851A22 SCANS 224 TO 1724

OUT OF 224 TO 1750



COMPUCHEM LABS

RIC COMPUCHEM DATA: GJ049861A22 SCANS 1724 TO 1750
05/19/85 17:18:00 OUT OF 224 TO 1750
SAMPLE: 1UL CC#49861 (5-7-85) CASE#GENTEST EPA#50705-G
CONDS.:

15359900.

SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/19/85 17:36:4(
DATA FILE: GJ049861A22
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

| ---- STANDARDS ----- >< --- PLUS UNKNOWNS --- >< - LIST NAMES - >

PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
4	4	1	87	53	8	1	89	SEMI1S1/SEMI1U1
3	3	3	44	28	6	1	51	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 14 FOUND

COMPOUND ><			SEARCH					>< SAT ><		CHRO		
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA PEAK
1	Q1	1	-490	482	483	1	1	949	.	152	483	.
2	Q3	1	-759	759	758	-1	1	977	.	164	758	.
3	Q2	1	-601	596	597	1	1	984	.	136	597	.
4	Q7	2	-387	377	376	-1	1	908	.	112	376	.
5	Q1	2	-254	241	.	.	.	.	.	42	239	.
6	Q1	3	-465	457	.	.	.	.	.	94	.	.
7	Q1	4	-466	458	.	.	.	.	.	93	.	.
8	Q1	5	-471	463	.	.	.	.	.	93	.	.
9	Q1	6	-475	468	.	.	.	.	.	128	.	.
10	Q1	7	-487	480	.	.	.	.	.	146	.	.
11	Q1	8	-491	484	.	.	.	.	.	146	.	.
12	Q1	9	-504	497	.	.	.	.	.	108	.	.
13	Q1	10	-507	500	.	.	.	.	.	146	.	.
14	Q1	11	-515	509	.	.	.	.	.	108	.	.
15	Q1	12	-518	512	.	.	.	.	.	45	514	.
16	Q1	13	-527	521	.	.	.	.	.	108	.	.
17	Q1	14	-529	523	.	.	.	.	.	70	.	.
18	Q1	15	-534	528	.	.	.	.	.	117	.	.
19	Q1	16	-541	535	.	.	.	.	.	77	534	.
20	Q2	2	-562	557	.	.	.	.	.	82	557	.
21	Q2	3	-569	564	.	.	.	.	.	139	.	.
22	Q2	4	-573	568	.	.	.	.	.	122	.	.
23	Q2	5	-583	578	.	.	.	.	.	122	.	.
24	Q2	6	-582	577	.	.	.	.	.	93	.	.
25	Q2	7	-589	584	.	.	.	.	.	162	.	.
26	Q2	8	-597	592	.	.	.	.	.	180	.	.
27	Q2	9	-602	598	.	.	.	.	.	128	599	.
28	Q2	10	-609	605	.	.	.	.	.	127	.	.
29	Q2	11	-619	615	.	.	.	.	.	225	.	.
30	Q2	12	-651	648	.	.	.	.	.	107	.	.
31	Q2	13	-664	661	.	.	.	.	.	142	.	.
32	Q3	2	-684	681	.	.	.	.	.	237	.	.
33	Q3	3	-694	692	.	.	.	.	.	196	.	.
34	Q3	4	-694	692	.	.	.	.	.	196	.	.
35	Q3	5	-707	705	.	.	.	.	.	162	.	.
36	Q3	6	-719	717	.	.	.	.	.	65	.	.
37	Q3	7	-738	737	.	.	.	.	.	163	.	.
38	Q3	8	-745	744	.	.	.	.	.	152	.	.
39	Q3	9	-718	716	.	.	.	.	.	138	.	.
40	Q3	10	-762	761	.	.	.	.	.	153	.	.
41	Q3	11	-765	764	.	.	.	.	.	184	.	.
42	Q3	12	-776	776	.	.	.	.	.	139	.	.
43	Q3	13	-776	776	.	.	.	.	.	168	.	.
44	Q3	14	-779	779	.	.	.	.	.	89	.	.
45	Q3	15	-744	743	.	.	.	.	.	165	.	.
46	Q3	16	-802	802	.	.	.	.	.	149	.	.

49	03	19	-811	811	.	.	.	.	.	138	.	.
50	07	3	-464	456	457	1	1	947	.	99	457	.
51	07	4	-539	533	534	1	1	947	.	82	534	.
52	07	5	-698	696	696	.	1	962	.	172	696	.
53	07	6	-830	831	830	-1	1	939	.	141	830	.
54	04	1	-891	891	891	.	1	978	.	188	891	.
55	05	1	-1137	1137	1137	.	1	977	.	240	1137	.
56	06	1	-1349	1350	1350	.	3	999	.	264	1350	.
57	04	2	-815	815	.	.	.	.	.	198	.	.
58	04	3	-818	818	.	.	.	.	.	169	.	.
59	04	4	-850	850	.	.	.	.	.	248	.	.
60	04	5	-864	864	.	.	.	.	.	284	.	.
61	04	6	-880	880	.	.	.	.	.	266	.	.
62	04	7	-894	894	.	.	.	.	.	178	.	.
63	04	8	-898	898	.	.	.	.	.	178	.	.
64	04	9	-948	948	.	.	.	.	.	149	948	.
65	04	10	-1002	1002	.	.	.	.	.	202	.	.
66	05	2	-1021	1021	.	.	.	.	.	184	1021	
67	05	3	-1023	1023	.	.	.	.	.	202	.	.
68	05	4	-1083	1083	.	.	.	.	.	149	.	.
69	05	5	-1132	1133	.	.	.	.	.	252	.	.
70	05	6	-1135	1136	.	.	.	.	.	228	.	.
71	05	7	-1141	1142	1142	.	1	936	.	149	1142	.
72	05	8	-1140	1141	.	.	.	.	.	228	.	.
73	06	2	-1218	1219	.	.	.	.	.	149	1221	.
74	06	3	-1281	1282	.	.	.	.	.	252	.	.
75	06	4	-1285	1286	.	.	.	.	.	252	.	.
76	06	5	-1338	1339	.	.	.	.	.	252	.	.
77	06	6	-1610	1612	.	.	.	.	.	276	.	.
78	06	7	-1618	1620	.	.	.	.	.	278	.	.
79	06	8	-1690	1692	.	.	.	.	.	276	.	.
80	07	7	-1036	1036	1037	1	1	988	.	244	1037	.
81	08	2	-1021	1021	1021	.	1	962	.	212	1021	.

Internal Standard Area Monitor

Method: SEMI1 Filename: GJ049861A22 Date: 05/19/85
Shift Std: HG850519A22 Time: 17:18

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*** D4-1,4-DICHLOROBENZENE (IS#1)	2051480.	1308150.	57.	Pass
*** D8-NAPHTHALENE (IS#2)	7106810.	4924630.	44.	Pass
*** D10-ACENAPHTHENE (IS#3)	3585660.	2830200.	27.	Pass
*** D10-PHENANTHRENE (IS#4)	5391030.	5315670.	1.	Pass
*** D12-CHRYSENE (IS#5)	2562010.	4498970.	-42.	Pass
*** D12-PERYLENE (IS#6)	2218390.	4391900.	-48.	Pass

NO	NAME
47	432 FLUORENE (Q3#18) <86-73-7>
48	480 4-NITROANILINE (Q3#19) <100-01-6>
49	*** D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
55	444 PHENANTHRENE (Q4#7) <85-01-8>
56	403 ANTHRACENE (Q4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
58	431 FLUORANTHENE (Q4#10) <206-44-0>
59	*** D12-CHRYSENE (IS#5)
60	404 BENZIDINE (Q5#2) <92-87-5>
61	445 PYRENE (Q5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
66	418 CHRYSENE (Q5#8) <218-01-9>
67	*** D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
71	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
74	408 BENZO(C,H,I)PERYLENE (Q6#8) <191-24-2>
75	### 2-FLUOROPHENOL (SS#1)
76	### D5-PHENOL (SS#2)
77	### D5-NITROBENZENE (SS#3)
78	### 2-FLUOROBIPHENYL (SS#4)
79	### 2,4,6-TRIBROMOPHENOL (SS#5)
80	### D14-TERPHENYL (SS#6)
81	### D10 PYRENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	483	7:23	1	1.000	A BV	2051480.	40.000 NG	9.60
2	42	239	3:39	1	0.495	A*BV	3392.	0.051 NG	0.01
3	94	NOT FOUND							
4	93	NOT FOUND							
5	93	NOT FOUND							
6	128	NOT FOUND							
7	146	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	146	NOT FOUND							
11	108	NOT FOUND							
12	45	514	7:51	1	1.064	A*VV	15328.	0.067 NG	0.02
13	108	NOT FOUND							
14	70	NOT FOUND							
15	117	NOT FOUND							
16	77	534	8:10	1	1.106	A BB	3968.	0.035 NG	0.01
17	136	597	9:07	17	1.000	A BV	7106810.	40.000 NG	9.60
18	82	557	8:31	17	0.933	A BB	4032.	0.019 NG	0.00
19	139	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
23	162	NOT FOUND								
24	180	NOT FOUND								
25	128	599	9:09	17	1.003	A BB	20992.	0.107	NC	0.03
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	NOT FOUND								
29	142	NOT FOUND								
30	164	758	11:35	30	1.000	A BV	3585660.	40.000	NC	9.60
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	NOT FOUND								
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	NOT FOUND								
40	184	NOT FOUND								
41	139	NOT FOUND								
42	168	NOT FOUND								
43	89	NOT FOUND								
44	165	NOT FOUND								
45	149	NOT FOUND								
46	204	NOT FOUND								
47	166	NOT FOUND								
48	138	NOT FOUND								
49	188	891	13:37	49	1.000	A BV	5391030.	40.000	NG	9.60
50	198	NOT FOUND								
51	169	NOT FOUND								
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	NOT FOUND								
55	178	NOT FOUND								
56	178	NOT FOUND								
57	149	948	14:29	49	1.064	A BB	60928.	0.298	NC	0.07
58	202	NOT FOUND								
59	240	1137	17:23	59	1.000	A BV	2562010.	40.000	NC	9.60
60	184	1021	15:36	59	0.898	A BB	17664.	~~21.118~~	NC	5.07
61	202	NOT FOUND								
62	149	NOT FOUND								
63	252	NOT FOUND								
64	228	NOT FOUND								
65	149	1142	17:27	59	1.004	A BB	38816.	0.538	NC	0.13
66	228	NOT FOUND								
67	264	1350	20:38	67	1.000	A BV	2218390.	40.000	NC	9.60
68	149	1221	18:40	67	0.904	A#BB	2208.	0.024	NC	0.01
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
73	278	NOT FOUND								
74	276	NOT FOUND								
75	112	376	5:45	1	0.778	A BV	1797430.	21.231	NC	5.10

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	457	6:59	1	0.946	A BV	1573630.	13.182	NG	3.16
77	82	534	8:10	17	0.894	A BV	1784700.	19.097	NG	4.58
78	172	696	10:38	30	0.918	A BB	2404700.	21.556	NG	5.17
79	141	830	12:41	30	1.095	A BB	178304.	23.832	NG	5.72
80	244	1037	15:51	59	0.912	A BV	1712090.	26.847	NG	6.44
81	212	1021	15:36	59	0.898	A BV	2323160.	28.575	NG	6.86

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	7:29	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:53	0.94	10.000	0.05	0.05	50.00	0.001	1.295	0.00
3	7:06		10.000			50.00		1.971	
4	7:07		10.000			50.00		2.425	
5	7:12		10.000			50.00		2.073	
6	7:16		10.000			50.00		1.601	
7	7:27		10.000			50.00		1.612	
8	7:30		10.000			50.00		1.640	
9	7:42		10.000			50.00		1.118	
10	7:45		10.000			50.00		1.618	
11	7:52		10.000			50.00		1.530	
12	7:55	0.99	10.000	0.11	0.07	50.00	0.006	4.471	0.00
13	8:03		10.000			50.00		1.647	
14	8:05		10.000			50.00		1.787	
15	8:10		10.000			50.00		0.775	
16	8:16	0.99	10.000	0.11	0.03	50.00	0.002	2.233	0.00
17	9:11	0.99	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:35	0.99	10.000	0.09	0.02	50.00	0.000	1.184	0.00
19	8:42		10.000			50.00		0.203	
20	8:45		10.000			50.00		0.358	
21	8:55		50.000			50.00		0.293	
22	8:54		10.000			50.00		0.612	
23	9:00		10.000			50.00		0.306	
24	9:07		10.000			50.00		0.335	
25	9:12	1.00	10.000	0.10	0.11	50.00	0.002	1.109	0.00
26	9:18		10.000			50.00		0.500	
27	9:28		10.000			50.00		0.176	
28	9:57		10.000			50.00		0.432	
29	10:09		10.000			50.00		0.735	
30	11:36	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:27		10.000			50.00		0.237	
32	10:36		10.000			100.00		0.373	
33	10:36		50.000			100.00		0.373	
34	10:48		10.000			50.00		1.171	
35	10:59		50.000			50.00		0.662	
36	11:17		10.000			50.00		1.521	
37	11:23		10.000			50.00		1.912	
38	10:58		50.000			50.00		0.472	
39	11:39		10.000			50.00		1.304	
40	11:42		50.000			50.00		0.059	
41	11:52		50.000			50.00		0.736	
42	11:52		10.000			50.00		1.697	
43	11:54		10.000			50.00		0.496	
44	11:22		10.000			50.00		0.311	
45	12:15		10.000			50.00		1.639	
46	12:20		10.000			50.00		0.585	
47	12:20		10.000			50.00		1.372	
48	12:24		50.000			50.00		0.360	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
49	13:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:27		50.000			50.00		0.076	
51	12:30		10.000			50.00		0.443	
52	13:00		10.000			50.00		0.199	
53	13:12		10.000			50.00		0.267	
54	13:27		50.000			50.00		0.109	
55	13:40		10.000			50.00		1.075	
56	13:44		10.000			50.00		0.952	
57	14:29	1.00	10.000	0.11	0.30	50.00	0.009	1.518	0.01
58	15:19		10.000			50.00		1.156	
59	17:23	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:36	1.00	50.000	0.02	21.12	50.00	0.006	0.013	0.42
61	15:38		10.000			50.00		1.369	
62	16:33		10.000			50.00		0.769	
63	17:18		20.000			50.00		0.299	
64	17:21		10.000			50.00		1.301	
65	17:26	1.00	10.000	0.10	0.54	50.00	0.012	1.126	0.01
66	17:23		10.000			50.00		1.203	
67	20:37	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:37	1.00	10.000	0.09	0.02	50.00	0.001	1.664	0.00
69	19:35		10.000			50.00		1.323	
70	19:38		10.000			50.00		1.176	
71	20:27		10.000			50.00		1.116	
72	24:36		10.000			50.00		1.013	
73	24:44		10.000			50.00		0.980	
74	25:50		10.000			50.00		0.987	
75	5:55	0.97	0.742	1.05	21.23	50.00	0.701	1.651	0.42
76	7:06	0.98	0.948	1.00	13.18	50.00	0.614	2.328	0.26
77	8:14	0.99	0.875	1.02	19.10	50.00	0.201	0.526	0.38
78	10:40	1.00	0.906	1.01	21.56	50.00	0.537	1.244	0.43
79	12:41	1.00	1.118	0.98	23.83	50.00	0.040	0.083	0.48
80	15:50	1.00	0.907	1.01	26.85	50.00	0.535	0.996	0.54
81	15:36	1.00	0.906	0.99	28.58	50.00	0.725	1.269	0.57

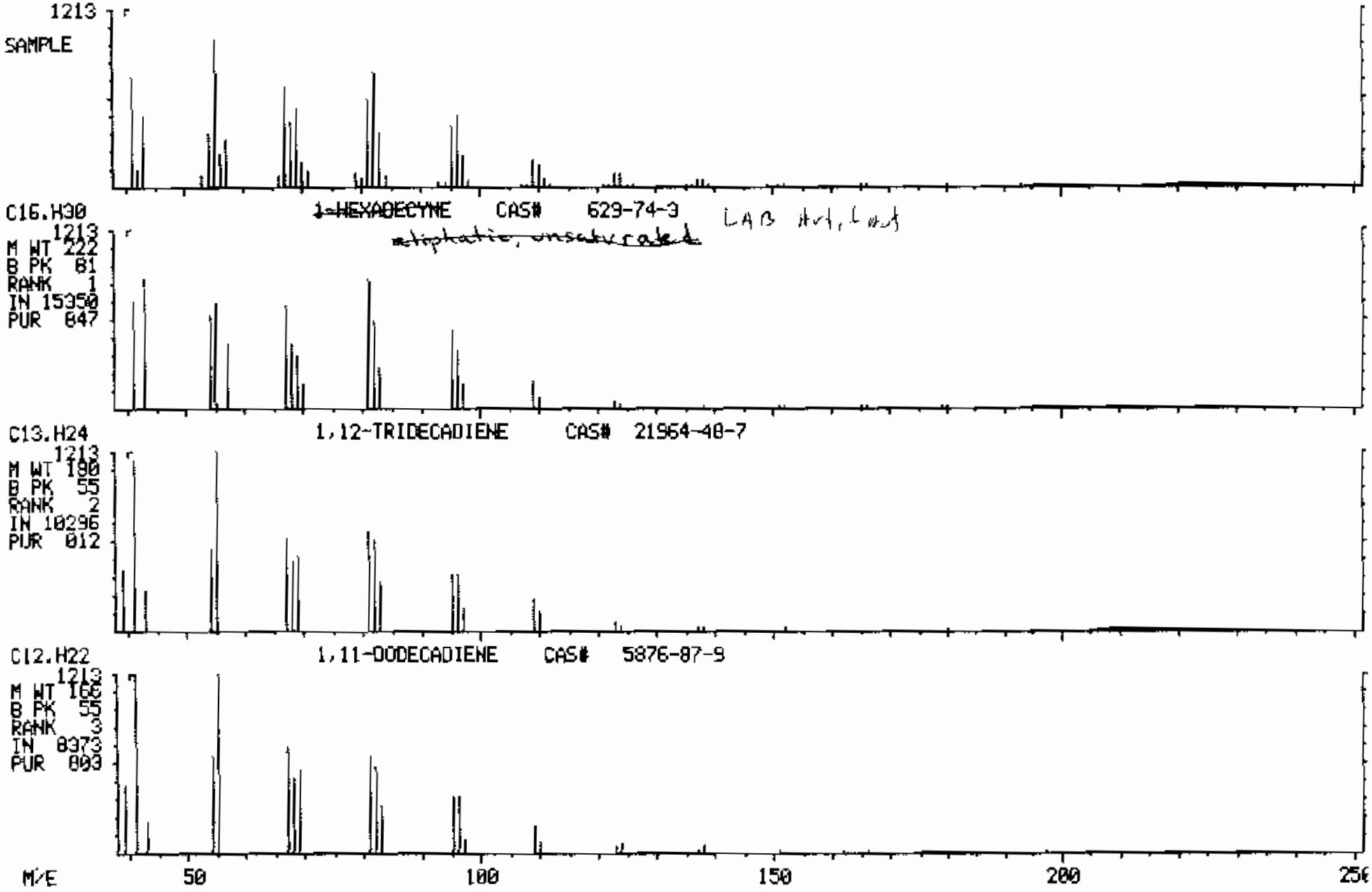
BNA ①

COMPUCHEM LABS

LIBRARY SEARCH
05/19/85 17:18:00 + 14:59
SAMPLE: 1UL CC#49861 (5-7-85) CASE#GENTEST EPA#50705-G

DATA: GJ049861A22 # 988
ENHANCED (10B 2N 0T)

BASE M/E: 55
RIC: 4141050.



QUALITY ASSURANCE NOTICE
sample # 7756
fraction SV

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentatively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample fraction.

scans: 980 _____ _____ _____ _____ _____

JC
6/11/85

QAN10S
850218

CASE#: Gen Test DUE DATE:

VOA
GC/MS WORKSHEET COMPUCHEM#: 49801

J1[ ] J3[ ] D1[ ] (:1)

J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#:

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged

Internal Standard Volume Added____50____ul

Surrogate Standard Volume Added____50____ul

BFB Filename BFB0509A12 Disk(D2)

Blank Filename CCB0509A12 Disk ( )

Standard Filename CSB0509B12 Disk ( )

Sample Filename CN04981B12 Disk (D2)

ANALYST(S): Injection JG Work-up JG

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC,FO,SM

Disposition: [X] Complete

[ ] Reinject Neat

[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review SUB Date 5/10/85 Auditor_____Date____/____/____

REPORT INTEGRATION Total # of Injections:_____

Final Reportable Package(s):_____/_____

QA COMMENTS:

Initials_____ Date____/____/____

FINAL REVIEW: Initials_____ Date____/____/____

ENTERED 5/12/85

EPAWATER (11/8

SEMI-VOLATILE
GC/MS WORKSHEET

COMPUCHEM# 49861 J ☑ R ☐ - ☐
J2 ☐ R2 ☐ D2 ☐ (:1)

Adj. Tst

LEVEL LIQUID
Deliverable Code 069

Sample Prep Code 025 056
Instrument Code 239 254
Compound List 097 142
Surrogate Std 382 312
Internal Std 033 033 (added by GC/MS)

SAS# _____ EPA# 50705-G

GC/MS ANALYSIS
Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/7/85
DFTPP Filename DH50519A22 Disk(2)
Standard Filename H6850519A22 Disk(1)
Sample Filename GC#49861A22 Disk( )

ANALYST(S): Injection CH Work-up SS

GC/MS REVIEW

CONDITION CODE: OK / JA

Entry Codes OK,EA,JA,ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IN,SW,CT,CS,PC,OT,NS
ED,IF,LA,DI,CO,RN,DW,DA

Extraneous Peak Search Results:
# of Peaks Found: 1

Quality Assurance Notice(s):
Notices Required 1

COMMENTS: pk 20 5 20-8 rel

Disposition:
- ☑ Complete
- ☐ Reinjection required
- ☐ Reextraction required
- ☐ Dilute (:1)
- ☐ Reinject Neat
- ☐ Send to DA

GC/MS Review AR Date 5/21/85 Auditor _____ Date __/__/__

REPORT INTEGRATION Total # of Injections: 2
Final Reportable Package(s): 1

QA COMMENTS

Initials _____ Date __/__/__

FINAL REVIEW Initials _____ Date __/__/__

WORK51 (6/8

ENTERED 5/21/85

(3)

VOLATILE PREP WORKSHEET

№ 1192

ASSIGNED TO Ron

DATE 5/6/85

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp	Screens LIQ	Screens S	Screens L	Screens M	Comments
49803	-57	gen test			40 mL	5-6-85	/		X		
49810	|	·	BS		40 mL.	|	/		X		
49811	|	|			40 mL	|	/		X		
49812	|	|			40 mL.	|	/		X		
49813	|	|			40 mL.	|	/		X		
49841	|	|			40 mL	↓	/		X		
49915			B		40 mL	5-6-85	/		X		
49916			B		40 mL	↓	/		X		
			B								

Surrogate No 361 / 55
Amount 100 + 200 mL / 1 mL
Lot 14357 / 14346

Extracts Received 5/6/85 BD

Schedule Reference
Manual Counter 286 / 296

Issued 5/7 PM

(3)

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO Cyril (CH)

DATE ASSIGNED 5/7/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49861	-56	GEN TEST	507056			1000ml.		1.0ml.	1.0ml		13	1	5/7	
49972						1000 ml.		1.0ml.	1.0ml		13	1	5/7	
49973	↓					1000 ml		1.0ml	1.0ml		13	1	5/7	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	14588					
SPIKE	NO						
	AMT.						
	LOT						

MANUAL COUNTER 272/447

FINAL VOLUME VERIFIED OK (CC)

SUPERVISOR REVIEWED OK (CC)

EXTRACTS RECEIVED BY SD 5/7/85

Joanne Sloan 5/7

№ 6083

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)		Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL		10.0
3	220	___	BROMOMETHANE			BDL		10.0
4	231	___	VINYL CHLORIDE			BDL		10.0
5	209	___	CHLOROETHANE			BDL		10.0
6	222	___	METHYLENE CHLORIDE	3.5		J	B	5.0
7	252	___	ACETONE (2-PROPANONE)			BDL		10.0
8	254	___	CARBON DISULFIDE			BDL		5.0
9	216	___	1,1-DICHLORDETHYLENE			BDL		5.0
10	214	___	1,1-DICHLOROETHANE			BDL		5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL		5.0
12	211	___	CHLOROFORM			BDL		5.0
13	215	___	1,2-DICHLORDETHANE			BDL		5.0
15	253	___	2-BUTANONE			BDL		10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL		5.0
17	206	___	CARBON TETRACHLORIDE			BDL		5.0
18	257	___	VINYL ACETATE			BDL		10.0
19	212	___	BROMODICHLOROMETHANE			BDL		5.0
20	217	___	1,2-DICHLOROPROPANE			BDL		5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL		5.0
22	229	___	TRICHLOROETHYLENE			BDL		5.0
23	205	___	CHLORODIBROMOMETHANE			BDL		5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL		5.0
25	203	___	BENZENE			BDL		5.0
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL		5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL		10.0
28	208	___	BROMOFORM			BDL		5.0
30	255	___	2-HEXANONE			BDL		10.0
31	256	___	4-METHYL-2-PENTANONE			BDL		10.0
32	224	___	TETRACHLOROETHENE			BDL		5.0
33	223	___	1,1,2,2-TETRACHLORDETHANE			BDL		5.0
34	225	___	TOLUENE			BDL		5.0
35	207	___	CHLOROBENZENE			BDL		5.0
36	219	___	ETHYLBENZENE			BDL		5.0
37	251	___	STYRENE			BDL		5.0
38	239	___	M-XYLENE			BDL		5.0
39	240/	___	241 O- & P-XYLENE			BDL		5.0

Volatile - Medium or Low Level Liquid

CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	D4-1,2-DICHLOROETHANE	53.3	50.0	106.0	77-120	X	
41	BROMOFLUOROBENZENE	49.3	50.0	99.0	85-121	X	
42	D8-TOLUENE	54.2	50.0	108.0	86-119	X	

\# Advisory surrogate only

++ % Recovery = Quant Report Value / Quant Report Amount Spiked X 100 %

	P	F
Internal Standard (#1) Bromochloroethane > 10000 Counts	X	

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}}$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report Amount Spiked Conversion Factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

No	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	441	___	N-NITROSODIMETHYLAMINE (Q1#2) <62-			BDL	20.0
3	610	___	PHENOL (Q1#3) <108-95-2>			BDL	20.0
4	473	___	ANILINE (Q1#4) <62-53-3>			BDL	20.0
5	411	___	BIS(2-CHLOROETHYL)ETHER (Q1#5) <11			BDL	20.0
6	601	___	2-CHLOROPHENOL (Q1#6) <95-57-8>			BDL	20.0
7	421	___	1,3-DICHLOROBENZENE (Q1#7) <541-73			BDL	20.0
8	422	___	1,4-DICHLOROBENZENE (Q1#8) <106-46			BDL	20.0
9	474	___	BENZYL ALCOHOL (Q1#9) <100-51-6>			BDL	20.0
10	420	___	1,2-DICHLOROBENZENE (Q1#10) <95-50			BDL	20.0
11	620	___	2-METHYLPHENOL (Q1#11) <95-48-7>			BDL	20.0
12	412	___	BIS(2-CHLOROISOPROPYL)ETHER (Q1#12			BDL	20.0
13	622	___	4-METHYLPHENOL (Q1#13) <106-44-5>			BDL	20.0
14	442	___	N-NITROSO-DI-N-PROPYLAMINE (Q1#14)			BDL	20.0
15	436	___	HEXACHLOROETHANE (Q1#15) <67-72-1>			BDL	20.0
16	440	___	NITROBENZENE (Q1#16) <98-95-3>			BDL	20.0
18	438	___	ISOPHORONE (Q2#2) <78-59-1>			BDL	20.0
19	606	___	2-NITROPHENOL (Q2#3) <88-75-5>			BDL	20.0
20	603	___	2,4-DIMETHYLPHENOL (Q2#4) <105-67-			BDL	20.0
21	625	___	BENZOIC ACID (Q2#5) <65-85-0>			BDL	100.0
22	410	___	BIS(2-CHLOROETHOXY)METHANE (Q2#6)			BDL	20.0
23	602	___	2,4-DICHLOROPHENOL (Q2#7) <120-83-			BDL	20.0
24	446	___	1,2,4-TRICHLOROBENZENE (Q2#8) <120			BDL	20.0
25	439	___	NAPHTHALENE (Q2#9) <91-20-3>			BDL	20.0
6	475	___	4-CHLOROANILINE (Q2#10) <106-47-8>			BDL	20.0
27	434	___	HEXACHLOROBUTADIENE (Q2#11) <87-68			BDL	20.0
28	608	___	P-CHLORO-M-CRESOL (Q2#12) <59-50-7			BDL	20.0
29	477	___	2-METHYLNAPHTHALENE (Q2#13) <91-57			BDL	20.0
31	435	___	HEXACHLOROCYCLOPENTADIENE (Q3#2) <			BDL	20.0
32	611	___	2,4,6-TRICHLOROPHENOL (Q3#3) <88-0			BDL	20.0
33	626	___	2,4,5-TRICHLOROPHENOL (Q3#4) <95-9			BDL	100.0
34	416	___	2-CHLORONAPHTHALENE (Q3#5) <91-58-			BDL	20.0
35	478	___	2-NITROANILINE (Q3#6) <88-74-4>			BDL	100.0
36	425	___	DIMETHYL PHTHALATE (Q3#7) <131-11-			BDL	20.0
37	402	___	ACENAPHTHYLENE (Q3#8) <208-96-8>			BDL	20.0
38	479	___	3-NITROANILINE (Q3#9) <99-09-2>			BDL	100.0
39	401	___	ACENAPHTHENE (Q3#10) <83-32-9>			BDL	20.0
40	605	___	2,4-DINITROPHENOL (Q3#11) <51-28-5			BDL	100.0
41	607	___	4-NITROPHENOL (Q3#12) <100-02-7>			BDL	100.0
42	476	___	DIBENZOFURAN (Q3#13) <132-64-9>			BDL	20.0
43	427	___	2,4-DINITROTOLUENE (Q3#14) <121-14			BDL	20.0
44	428	___	2,6-DINITROTOLUENE (Q3#15) <606-20			BDL	20.0
45	424	___	DIETHYL PHTHALATE (Q3#16) <84-66-2			BDL	20.0
46	417	___	4-CHLOROPHENYL PHENYL ETHER (Q3#17			BDL	20.0
47	432	___	FLUORENE (Q3#18) <86-73-7>			BDL	20.0
48	480	___	4-NITROANILINE (Q3#19) <100-01-6>			BDL	100.0
50	604	___	4,6-DINITRO-2-METHYLPHENOL (Q4#2)			BDL	100.0
51	443	___	N-NITROSODIPHENYLAMINE (Q4#3) <86-			BDL	20.0
52	414	___	4-BROMOPHENYL PHENYL ETHER (Q4#4)			BDL	20.0
3	433	___	HEXACHLOROBENZENE (Q4#5) <118-74-1			BDL	20.0
54	609	___	PENTACHLOROPHENOL (Q4#6) <87-86-5>			BDL	100.0
55	444	___	PHENANTHRENE (Q4#7) <85-01-8>			BDL	20.0
56	403	___	ANTHRACENE (Q4#8) <120-12-7>			BDL	20.0
57	426	___	DI-N-BUTYL PHTHALATE (Q4#9) <84-74			BDL	20.0
58	431	___	FLUORANTHENE (Q4#10) <206-44-0>			BDL	20.0

No	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
60	404	___	BENZIDINE (Q5#2) <92-87-5>			BDL	100.0
61	445	___	PYRENE (Q5#3) <129-00-0>			BDL	20.0
62	415	___	BUTYLBENZYL PHTHALATE (Q5#4) <85-6			BDL	20.0
63	423	___	3,3'-DICHLOROBENZIDINE (Q5#5) <91-			BDL	40.0
64	405	___	BENZO(A)ANTHRACENE (Q5#6) <56-55-3			BDL	20.0
65	413	___	BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7)			BDL	20.0
66	418	___	CHRYSENE (Q5#8) <218-01-9>			BDL	20.0
68	429	___	DI-N-OCTYL PHTHALATE (Q6#2) <117-8			BDL	20.0
69	407	___	BENZO(B)FLUORANTHENE (Q6#3) <205-9			BDL	20.0
70	409	___	BENZO(K)FLUORANTHENE (Q6#4) <207-0			BDL	20.0
71	406	___	BENZO(A)PYRENE (Q6#5) <50-32-8>			BDL	20.0
72	437	___	INDENO(1,2,3-C,D)PYRENE (Q6#6) <19			BDL	20.0
73	419	___	DIBENZO(A,H)ANTHRACENE (Q6#7) <53-			BDL	20.0
74	408	___	BENZO(G,H,I)PERYLENE (Q6#8) <191-2			BDL	20.0

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P
75	##	2-FLUOROPHENOL (SS#1)	21.2	50.0	42.0	23-121	X
76	##	D5-PHENOL (SS#2)	13.2	50.0	26.0	15-103	X
77	##	D5-NITROBENZENE (SS#3)	19.1	25.0	76.0	41-120	X
78	##	2-FLUOROBIPHENYL (SS#4)	21.6	25.0	86.0	44-119	X
79	##	2,4,6-TRIBROMOPHENOL (SS#5)	23.8	50.0	48.0	10-130	X
80	##	D14-TERPHENYL (SS#6)	26.8	25.0	107.0	33-128	X
81	##	D10 PYRENE	28.6	25.0	114.0	33-128*	X

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#52) D10-Phenanthrene > 40000 Cnts ___ ___

Correction Factor Calculation:

$$\frac{\text{Final Extract Volume (ml)}}{\text{1.0ml for Acid \& 1.0ml for BN}} \times \frac{1000\ \text{ml}}{\text{Vol. Sample Extracted (ml)}} \times \text{Dilution Factor} \times 2 =$$

$$\frac{1.0\text{HL}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1000.\ \text{ML}}{1000.\ \text{ML}} \times \frac{1.0}{} \times 2 = 2.000$$

Quant Report Amount Spiked conversion factor:

$$\frac{500\ \text{UL}}{\text{Amount Surrogate Added (UL)}} \times \frac{\text{Final Extract Vol (ml)}}{\text{1.0ml for Acid \& 1.0ml for BN}} \times \text{GCMS Dilution Factor} \times 2 =$$

$$\frac{500\ \text{UL}}{500\ \text{UL}} \times \frac{1.0\text{ML}}{1.0\text{ML \& } 1.0\text{ML}} \times \frac{1.0}{} \times 2 = 2.000$$

GC SCREEN DATA SHEET

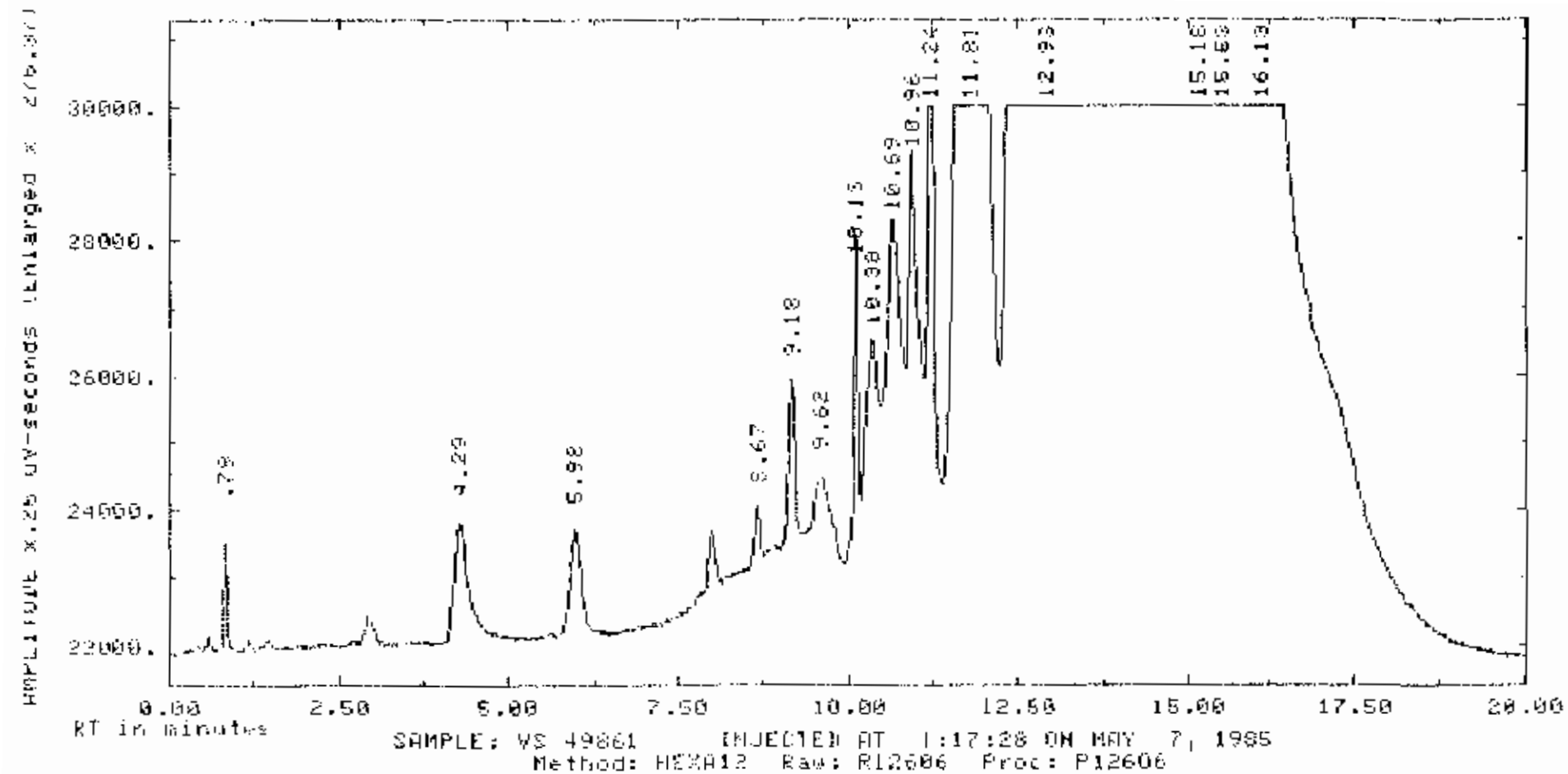
Laboratory Name CompuChem

Case Number Platinum

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
50705-G cc# 49861	VOA B/N/A Pesticides Dioxin	ND	5-7-85	L
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			

*Answer Yes or No.

**Indicate "M" for medium level GC/MS analysis.
Indicate "L" for low level GC/MS analysis.


AMPLITUDE x.25 UV-seconds (Enlarged x 276.30)
30000.
28000.
26000.
24000.
22000.
.79
4.29
5.98
8.67
9.18
9.62
10.15
10.38
10.69
10.96
11.24
11.81
12.95
15.18
15.59
16.13
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in Minutes
SAMPLE: VS 49861 INJECTED AT 1:17:28 ON MAY 7, 1995
Method: HEXA12 Raw: R12606 Proc: P12606

Report: 4060.00 Channel: 12

Sample: VS 49861 Injected at 1:17:28 ON MAY 2, 1985

:0 Method mEXA12 Seq: SEQ126 Subseq/Samp 1/ 6 211 /

Sl-width	MV/min	Delay	min-Ar	Bunch
.500	2.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-F	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.017 minutes

Signal > 1 volt
Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.79	0.00	.10000E+01	2260.	BB	.003	
4.29	0.00	.10000E+01	11915.	BB	.014	
5.95	0.00	.10000E+01	8929.	BB	.010	
8.67	0.00	.10000E+01	1988	BB	.002	
9.18	0.00	.10000E+01	2412.	BB	.003	
9.62	0.00	.10000E+01	8208.	BH	.009	
10.13	0.00	.10000E+01	12485.	HH	.014	
10.38	0.00	.10000E+01	21954.	HH	.025	
10.69	0.00	.10000E+01	37851.	HH	.043	
10.96	0.00	.10000E+01	31535.	HH	.036	
11.24	0.00	.10000E+01	35413.	HH	.041	
11.81	0.00	.10000E+01	235980.	HH	.268	
12.53	0.00	.10000E+01	87444096.	HS	99.314	
15.19	0.00	.10000E+01	35174.	TV	.040	
15.52	0.00	.10000E+01	36447.	VV	.041	
16.13	0.00	.10000E+01	116667.	VT	.133	

Total Area = 88048249 Total AREA % = 116667.250

Processed data file: P12606 Raw data file: R12606

III. SAMPLE DATA PACKAGE

CASE NO. Jan. Feb. March 1985 Water

SAMPLE NO. T/BK 11446 = COMPUCHEM NO. 49814

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
3. Raw Data — in order: VOA, BNA, Pesticide

1. **HSL Results — Organic Analysis Data Sheets (Form I)**

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
11446-T/BLK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CM049814B11
Sample matrix: liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601 PLATINUM
Date Sample
Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-09-85
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.8	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	10.	U	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides)/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/ probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

ronmental Protection Agency, CLP Sample Management Office
.. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
11446-T/BLK

Organics Analysis Data Sheet
(Page 2)
Semivolatile Compounds

Laboratory Name: CompuChem

Concentration: low
Date extracted/prepared: 05-06-85
Date analyzed: 05-22-85
Conc/Dil Factor: 2.00

CAS Number		ug/l		CAS Number		ug/l	
62-75-9	N-Nitrosodimethylamine	20.	U	99-09-2	3-Nitroaniline	100	U
108-95-2	Phenol	20.	U	83-32-9	Acenaphthene	20.	U
62-53-3	Aniline	20.	U	51-28-5	2,4-Dinitrophenol	100	U
111-44-4	bis(2-Chloroethyl) ether	20.	U	100-02-7	4-Nitrophenol	100	U
95-57-8	2-Chlorophenol	20.	U	132-64-9	Dibenzofuran	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U	121-14-2	2,4-Dinitrotoluene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U	606-20-2	2,6-Dinitrotoluene	20.	U
100-51-6	Benzyl Alcohol	20.	U	84-66-2	Diethylphthalate	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U	7005-72-3	4-Chlorophenyl Phenyl ether	20.	U
95-48-7	2-Methylphenol	20.	U	86-73-7	Fluorene	20.	U
39638-32-9	bis(2-Chloroisopropyl) ether	20.	U	100-01-6	4-Nitroaniline	100	U
106-44-5	4-Methylphenol	20.	U	534-52-1	4,6-Dinitro-2-methylphenol	100	U
621-64-7	N-Nitroso-Dipropylamine	20.	U	86-30-6	N-nitrosodiphenylamine (1)	20.	U
67-72-1	Hexachloroethane	20.	U	101-55-3	4-Bromophenyl Phenyl ether	20.	U
98-95-3	Nitrobenzene	20.	U	118-74-1	Hexachlorobenzene	20.	U
78-59-1	Isophorone	20.	U	87-86-5	Pentachlorophenol	100	U
88-75-5	2-Nitrophenol	20.	U	85-01-8	Phenanthrene	20.	U
105-67-9	2,4-Dimethylphenol	20.	U	120-12-7	Anthracene	20.	U
65-85-0	Benzoic Acid	100	U	84-74-2	Di-n-butylphthalate	20.	U
111-91-1	bis(2-Chloroethoxy) methane	20.	U	206-44-0	Fluoranthene	20.	U
120-83-2	2,4-Dichlorophenol	20.	U	92-87-5	Benzidine	100	U
120-82-1	1,2,4-Trichlorobenzene	20.	U	129-00-0	Pyrene	20.	U
91-20-3	Naphthalene	20.	U	85-68-7	Butyl Benzyl Phthalate	20.	U
106-47-8	4-Chloroaniline	20.	U	91-94-1	3,3'-Dichlorobenzidine	40.	U
87-68-3	Hexachlorobutadiene	20.	U	56-55-3	Benzo(a)anthracene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	117-81-7	bis(2-ethylhexyl)phthalate	20.	U
91-57-6	2-Methylnaphthalene	20.	U	218-01-9	Chrysene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	117-84-0	Di-n-octyl Phthalate	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	205-99-2	Benzo(b)fluoranthene	20.	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)fluoranthene	20.	U
91-58-7	2-Chloronaphthalene	20.	U	50-32-8	Benzo(a)pyrene	20.	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)pyrene	20.	U
131-11-3	Dimethyl Phthalate	20.	U	53-70-3	Dibenz(a,h)anthracene	20.	U
208-96-8	Acenaphthylene	20.	U	191-24-2	Benzo(g,h,i)perylene	20.	U

(1) Cannot be separated from diphenylamine

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency - CLP Sample Management Office
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
11446

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER T/BLK 11446

COMPUCHEM FILE GJ049814B16

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)
629-74-3	1-HEXADECYNE Artifact	SEMI	989	130. J

2.000 40.00

SPECTROSCOPIST YC

DATE 5/22/85

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

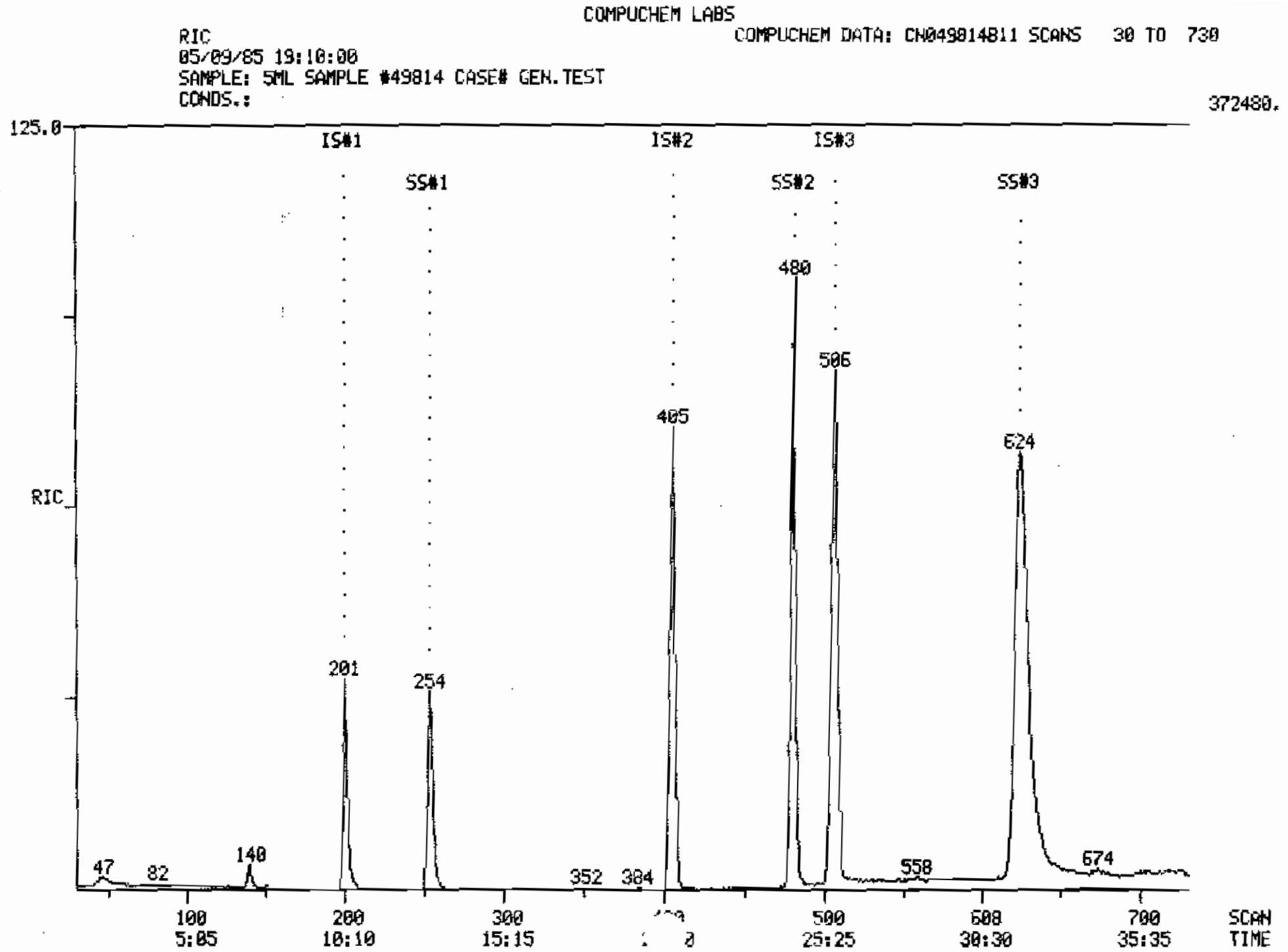
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN049814811 SCANS 30 TO 730
05/09/85 19:10:00
SAMPLE: 5ML SAMPLE #49814 CASE# GEN.TEST
CONDS.:
372480.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
480
506
405
624
RIC
201
254
47
82
140
352
384
558
674
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/85 19:58:32
DATA FILE: CN049814811
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	1	42	7	1	62	E237S/E237U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-198	201	201	.	1	985	.	128	200	-1	1
2	E2	1	-404	405	405	.	1	997	.	114	405	.	1
3	E3	1	-506	506	506	.	1	987	.	117	506	.	1
4	E1	2	-41	44	.	.	.	.	.	50	.	.	.
5	E1	3	-60	63	.	.	.	.	.	94	.	.	.
6	E1	4	-76	79	.	.	.	.	.	62	.	.	.
7	E1	5	-95	98	.	.	.	.	.	64	.	.	.
8	E1	6	-137	140	140	.	1	951	.	84	140	.	1
9	E1	7	-148	151	.	.	.	.	.	43	151	.	1
10	E1	8	-167	170	.	.	.	.	.	76	.	.	.
11	E1	9	-190	192	.	.	.	.	.	96	.	.	.
12	E1	10	-215	217	.	.	.	.	.	63	.	.	.
13	E1	11	-230	232	.	.	.	.	.	96	.	.	.
14	E1	12	-240	242	.	.	.	.	.	83	.	.	.
15	E1	13	-255	257	.	.	.	.	.	62	.	.	.
16	E2	2	-253	255	.	.	.	.	.	72	.	.	.
17	E2	3	-281	283	.	.	.	.	.	97	.	.	.
18	E2	4	-289	291	.	.	.	.	.	117	.	.	.
19	E2	5	-291	293	.	.	.	.	.	43	.	.	.
20	E2	6	-298	300	.	.	.	.	.	83	.	.	.
21	E2	7	-326	328	.	.	.	.	.	63	.	.	.
22	E2	8	-331	333	.	.	.	.	.	75	.	.	.
23	E2	9	-342	343	.	.	.	.	.	130	.	.	
24	E2	10	-354	355	.	.	.	.	.	129	.	.	
25	E2	11	-356	357	.	.	.	.	.	97	.	.	
26	E2	12	-353	354	.	.	.	.	.	78	.	.	
27	E2	13	-357	358	.	.	.	.	.	75	.	.	.
28	E2	14	-378	379	.	.	.	.	.	63	.	.	.
29	E2	15	-408	409	.	.	.	.	.	173	.	.	.
30	E3	2	-419	420	.	.	.	.	.	43	.	.	.
31	E3	3	-450	451	.	.	.	.	.	43	452	.	2
32	E3	4	-455	456	.	.	.	.	.	164	.	.	.
33	E3	5	-454	455	.	.	.	.	.	83	.	.	.
34	E3	6	-483	484	.	.	.	.	.	92	484	.	1
35	E3	7	-505	508	.	.	.	.	.	112	.	.	.
36	E3	8	-558	558	.	.	.	.	.	106	559	.	2
37	E3	9	-665	664	.	.	.	.	.	104	.	.	.
38	E3	10	-674	673	.	.	.	.	.	106	674	.	1
39	E3	11	-701	700	.	.	.	.	.	106	700	.	3
40	E4	2	-253	255	254	-1	1	978	.	65	254	.	1
41	E4	3	-624	624	624	.	1	996	.	93	624	.	1
42	E4	4	-479	480	480	.	1	955	.	98	480	.	1

Internal Standard Area Monitor

Method: E237 Filename: CN049814B11 Date: 05/09/85
Shift Std: CT850509A11 Time: 19:10

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	58958.	59680.	-0.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	312105.	309280.	1.	Pass
* D5 CHLOROBENZENE(INTERNAL STANDARD)	321838.	322431.	0.	Pass

QUANTITATION REPORT FILE: CN049814B11

DATA: CN049814B11.TI
05/09/85 19:10:00
SAMPLE: 5ML SAMPLE #49814 CASE# GEN.TEST EPA # T/B 11446 SAS
DS.:
SUBMITTED BY: 11 ANALYST: 719

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	200	10:10	1	1.000	A BB	58959.	50.000 UG/L	15.34
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
-	64	NOT FOUND								
	84	140	7:07	1	0.700	A BB	9537.	4.815	UG/L	1.48
7	43	151	7:41	1	0.755	A VB	2248.	6.885	UG/L	2.11
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	405	20:35	14	1.000	A BV	312106.	50.000	UG/L	15.34
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	506	25:43	29	1.000	A BV	321839.	50.000	UG/L	15.34
30	43	NOT FOUND								
	43	452	22:59	29	0.893	A*VB	1010.	1.463	UG/L	0.45
-	164	NOT FOUND								
33	83	NOT FOUND								
34	92	484	24:36	29	0.957	A BB	916.	0.224	UG/L	0.07
35	112	NOT FOUND								
36	106	559	28:25	29	1.105	A*BB	676.	0.198	UG/L	0.06
37	104	NOT FOUND								
38	106	674	34:16	29	1.332	A BB	3900.	0.831	UG/L	0.25
39	106	700	35:35	29	1.383	A*BV	2461.	0.605	UG/L	0.19
40	65	254	12:55	1	1.270	A DV	123395.	51.187	UG/L	15.70
41	95	624	31:43	29	1.233	A BB	332440.	53.388	UG/L	16.38
42	98	480	24:24	1	2.400	A BV	388247.	56.441	UG/L	17.31

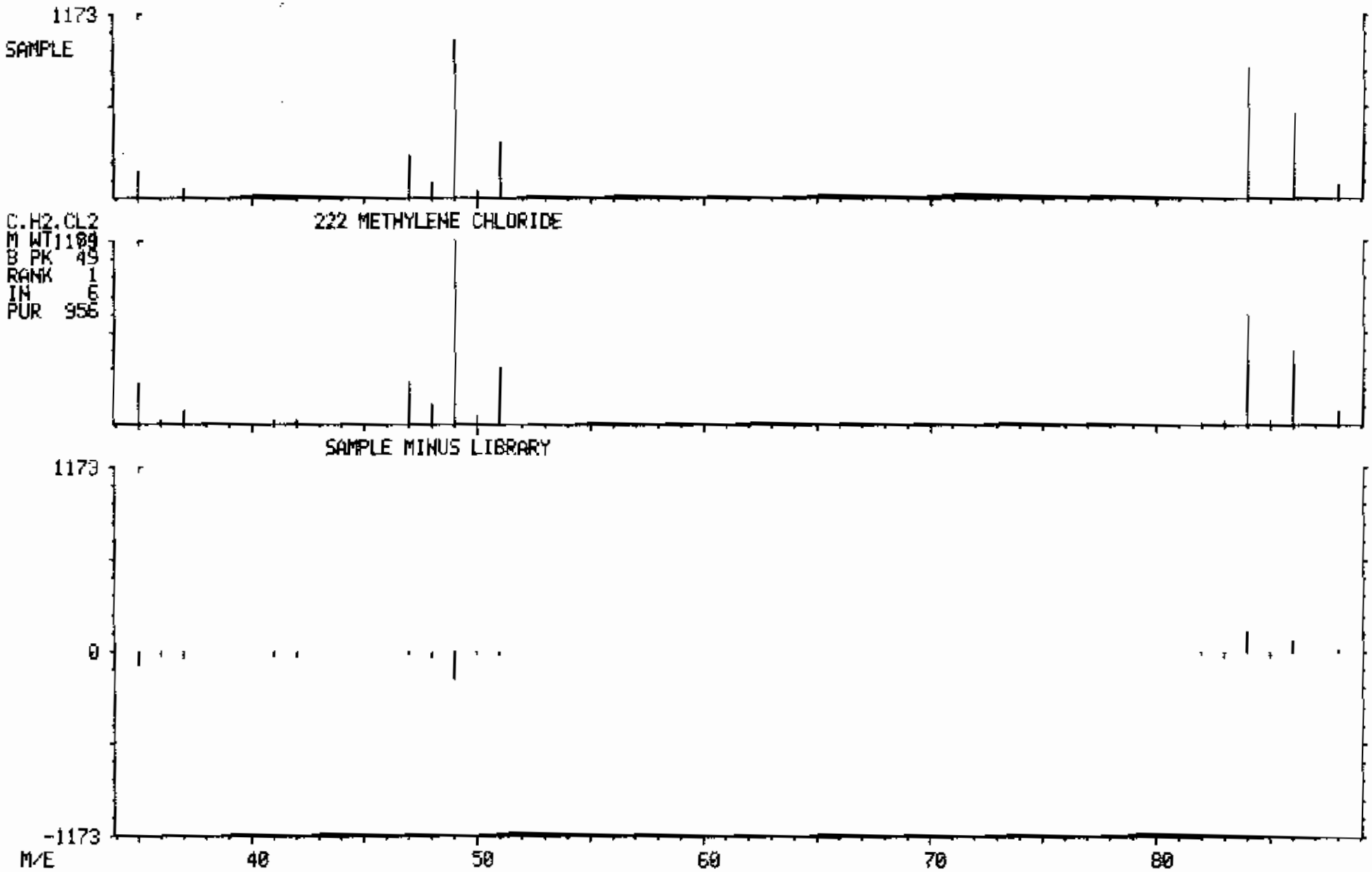
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05		10.000			50.00		1.788	
3	3:03		10.000			50.00		2.014	
4	3:52		10.000			50.00		1.752	
5	4:50		10.000			50.00		0.978	
6	6:58	1.02	5.000	0.14	4.82	50.00	0.162	1.680	0.10
7	7:31	1.02	10.000	0.08	6.88	50.00	0.038	0.277	0.14
8	8:29		5.000			50.00		2.546	
9	9:39		5.000			50.00		1.075	
10	10:56		5.000			50.00		1.983	
11	11:41		5.000			50.00		1.153	
12	12:12		5.000			50.00		2.753	
:	12:58		5.000			50.00		1.914	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52		10.000			50.00		0.019	
16	14:17		5.000			50.00		0.416	
17	14:41		5.000			50.00		0.421	
,	14:48		10.000			50.00		0.302	
19	15:09		5.000			50.00		0.484	
20	16:34		5.000			50.00		0.280	
21	16:50		5.000			50.00		0.181	
22	17:23		5.000			50.00		0.432	
23	18:00		5.000			50.00		0.478	
24	18:06		5.000			50.00		0.296	
25	17:57		5.000			50.00		0.827	
26	18:09		5.000			50.00		0.622	
27	19:13		10.000			50.00		0.122	
28	20:44		5.000			50.00		0.305	
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.174	
31	22:52	1.00	10.000	0.09	1.46	50.00	0.003	0.107	0.03
32	23:08		5.000			50.00		0.437	
33	23:05		5.000			50.00		0.403	
34	24:33	1.00	5.000	0.19	0.22	50.00	0.003	0.635	0.00
35	25:49		5.000			50.00		0.972	
36	28:22	1.00	5.000	0.22	0.20	50.00	0.002	0.530	0.00
37	33:46		5.000			50.00		1.075	
38	34:16	1.00	5.000	0.27	0.83	50.00	0.012	0.729	0.02
39	35:38	1.00	5.000	0.28	0.61	100.00	0.004	0.631	0.01
40	12:52	1.00	10.000	0.13	51.19	50.00	2.093	2.044	1.02
41	31:43	1.00	10.000	0.12	53.39	50.00	1.033	0.967	1.07
42	24:21	1.00	10.000	0.24	56.44	50.00	6.585	5.834	1.13

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 19:10:00 + 7:07
SAMPLE: 5ML SAMPLE #49814 CASE# GEN.TEST
ENHANCED (S 150 2N 0T)

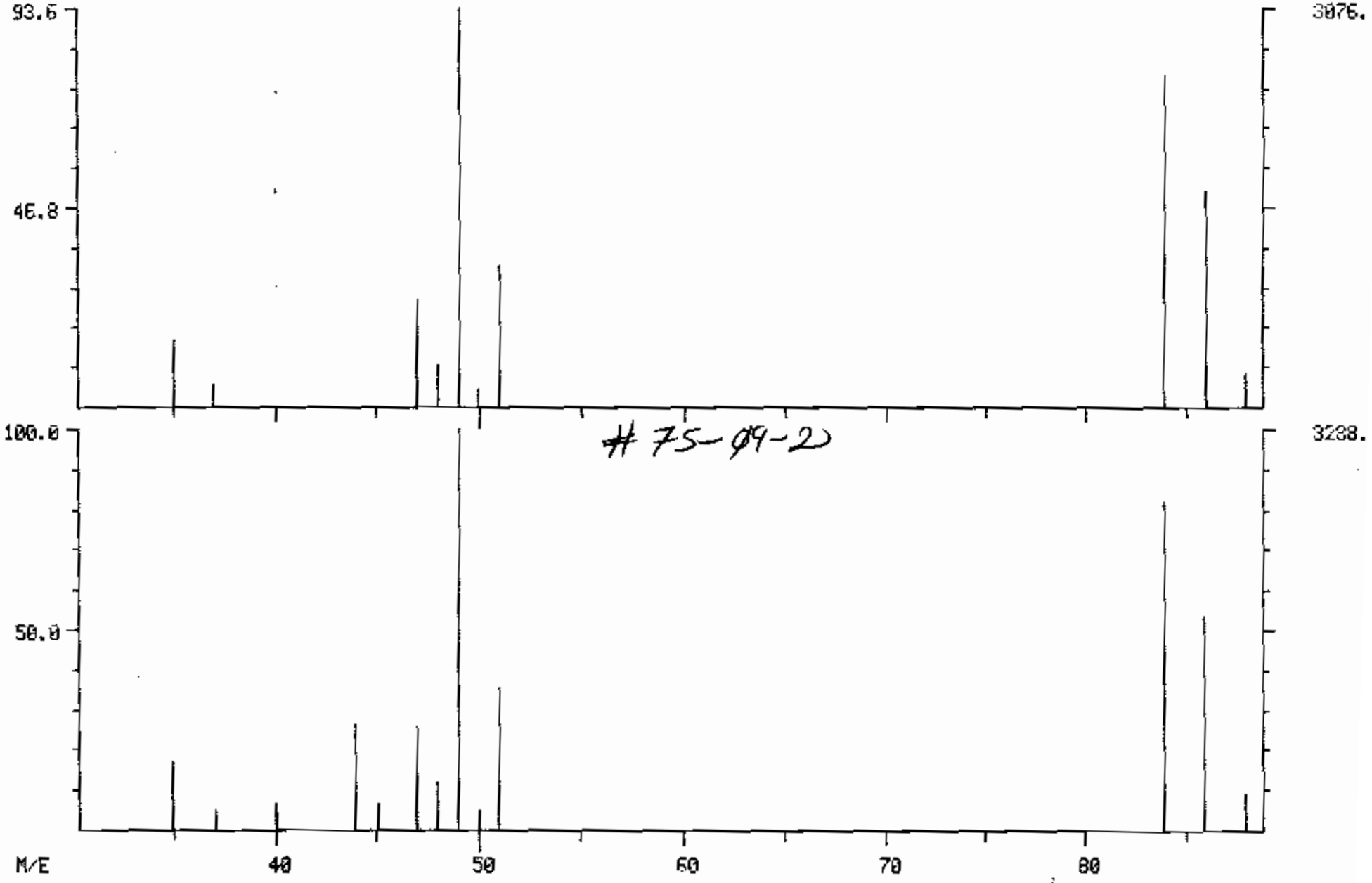
DATA: CN049814B1I # 140
BASE M/E: 49
RIC: 10607.



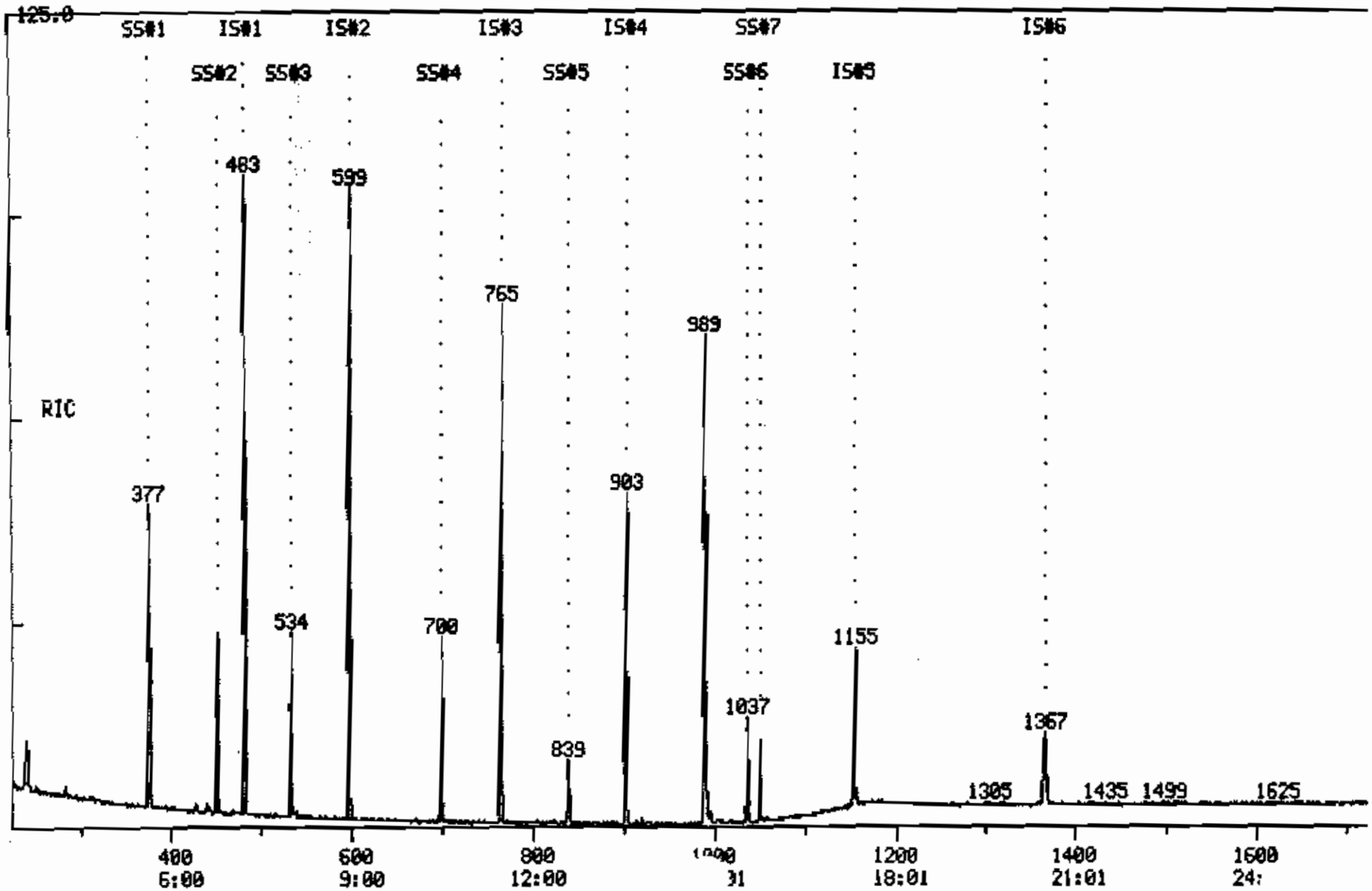
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/95 19:10:00 + 7:07
SAMPLE: 5ML SAMPLE #49814 CASE# GEN.TEST , EPA # T/BLK 11 VVL SAL
ENHANCED (5 150 2N)

DATA: CN049814B11 #140 BASE M/E: 49/ 49
RIC: 10607./ 12655.



#75-09-2


COMPUCHEM LABS
RIC
05/22/85 22:29:00
COMPUCHEM DATA: CJ049014B16 SCANS 223 TO 1723
OUT OF 223 TO 1980
SAMPLE: 1 UL CC#49014 (5-6-85) CS#GEN TEST EPA#T/BLK 11446
CONDS.:
125.0
SS#1
IS#1
IS#2
IS#3
IS#4
SS#7
IS#6
SS#2
SS#3
SS#4
SS#5
SS#6
IS#5
483
599
765
989
RIC
377
903
534
700
1155
1037
1367
839
1305
1435
1499
1625
400
6:00
600
9:00
800
12:00
1200
18:01
1400
21:01
1600
24:

COMPUCHEM LABS

RIC COMPUCHEM DATA: GJ049814B16 SCANS 1723 TO 1900
05/22/85 22:29:00 OUT OF 223 TO 1900
SAMPLE: 1 UL CC#49814 (5-6-85) CS#GEN TEST EPA#T/BLK 11446
CONDS.:

13004700.

1773

1800
27:0

SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/22/85 23:12:29
DATA FILE: QJ049814816
REFERENCE: SEMI1
METHOD: SEMI1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: SEMI1S1

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
4	4	1	34	53	8	1	55	SEMI1S1/SEMI1U1
4	4	1	69	29	7	1	52	SEMI1S2/SEMI1U2

81 COMPOUNDS PROCESSED, 14 FOUND

COMPOUND NO	COMPOUND LIB	COMPOUND ENTRY	SEARCH REF	SEARCH PRED	SEARCH SEL	SEARCH DELTA	SEARCH PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	G1	1	-475	483	483	.	1	960	.	152	483	.	1
2	G2	1	-590	599	599	.	1	964	.	136	599	.	1
3	G3	1	-756	765	765	.	1	965	.	164	765	.	1
4	G7	2	-369	377	377	.	1	900	.	112	377	.	1
5	G1	2	-253	261	.	.	.	.	.	42	262	.	4
6	G1	3	-445	454	.	.	.	.	.	94	.	.	.
7	G1	4	-449	458	.	.	.	.	.	93	.	.	.
8	G1	5	-454	463	.	.	.	.	.	93	.	.	.
9	G1	6	-459	468	.	.	.	.	.	128	.	.	.
10	G1	7	-471	480	.	.	.	.	.	146	.	.	.
11	G1	8	-476	485	.	.	.	.	.	146	.	.	.
12	G1	9	-487	496	.	.	.	.	.	108	.	.	.
13	G1	10	-492	501	.	.	.	.	.	146	.	.	.
14	G1	11	-497	506	.	.	.	.	.	108	.	.	.
15	G1	12	-502	511	.	.	.	.	.	45	510	.	1
6	G1	13	-510	519	.	.	.	.	.	108	.	.	.
7	G1	14	-513	522	.	.	.	.	.	70	.	.	.
18	G1	15	-520	529	.	.	.	.	.	117	.	.	
19	G1	16	-527	536	.	.	.	.	.	77	534	.	
20	G2	2	-548	557	.	.	.	.	.	82	555	.	
21	G2	3	-556	565	.	.	.	.	.	139	.	.	.
22	G2	4	-558	567	.	.	.	.	.	122	.	.	.
23	G2	5	-565	574	.	.	.	.	.	122	.	.	.
24	G2	6	-567	576	.	.	.	.	.	93	.	.	.
25	G2	7	-577	586	.	.	.	.	.	162	.	.	.
26	G2	8	-586	595	.	.	.	.	.	180	.	.	.
27	G2	9	-592	601	.	.	.	.	.	128	.	.	.
28	G2	10	-597	606	.	.	.	.	.	127	.	.	.
29	G2	11	-608	617	.	.	.	.	.	225	.	.	.
30	G2	12	-640	649	.	.	.	.	.	107	.	.	.
31	G2	13	-656	665	.	.	.	.	.	142	.	.	.
32	G3	2	-677	686	.	.	.	.	.	237	.	.	.
33	G3	3	-687	696	.	.	.	.	.	196	.	.	.
34	G3	4	-687	696	.	.	.	.	.	196	.	.	.
35	G3	5	-702	711	.	.	.	.	.	162	.	.	.
36	G3	6	-713	722	.	.	.	.	.	65	.	.	.
37	G3	7	-732	741	.	.	.	.	.	163	.	.	.
38	G3	8	-742	751	.	.	.	.	.	152	.	.	.
39	G3	9	-751	760	.	.	.	.	.	138	.	.	.
40	G3	10	-759	768	.	.	.	.	.	153	.	.	.
41	G3	11	-761	770	.	.	.	.	.	184	.	.	.
2	G3	12	-764	773	.	.	.	.	.	139	.	.	.
43	G3	13	-774	783	.	.	.	.	.	168	.	.	.
44	G3	14	-775	784	.	.	.	.	.	89	.	.	.
45	G3	15	-739	748	.	.	.	.	.	165	.	.	.
46	G3	16	-798	807	.	.	.	.	.	149	806	.	1
47	G3	17	-805	814	.	.	.	.	.	204	.	.	.
48	G3	18	-804	813	.	.	.	.	.	166	.	.	.

50	Q7	3	-444	453	453	.	1	911	.	99	452	-1
51	Q7	4	-525	534	534	.	1	964	.	82	534	.
52	Q7	5	-691	700	700	.	1	967	.	172	700	.
53	Q7	6	-831	840	839	-1	1	928	.	141	839	.
54	Q4	1	-895	903	903	.	1	955	.	188	903	.
55	Q5	1	-1147	1156	1155	-1	1	913	.	240	1155	.
56	Q6	1	-1357	1367	1367	.	1	959	.	264	1366	-1
7	Q4	2	-814	822	.	.	.	.	.	198	.	.
58	Q4	3	-816	824	824	.	1	672	.	169	.	.
59	Q4	4	-851	859	.	.	.	.	.	248	.	.
60	Q4	5	-866	874	.	.	.	.	.	284	.	.
61	Q4	6	-881	889	.	.	.	.	.	266	.	.
62	Q4	7	-897	905	.	.	.	.	.	178	.	.
63	Q4	8	-901	909	.	.	.	.	.	178	.	.
64	Q4	9	-949	957	.	.	.	.	.	149	957	.
65	Q4	10	-1009	1017	.	.	.	.	.	202	.	.
66	Q5	2	-1019	1027	.	.	.	.	.	184	.	.
67	Q5	3	-1031	1039	.	.	.	.	.	202	.	.
68	Q5	4	-1089	1098	.	.	.	.	.	149	1096	.
69	Q5	5	-1140	1149	.	.	.	.	.	252	.	.
70	Q5	6	-1145	1154	.	.	.	.	.	228	.	.
71	Q5	7	-1145	1154	.	.	.	.	.	149	1152	.
72	Q5	8	-1150	1159	.	.	.	.	.	228	.	.
73	Q6	2	-1219	1228	.	.	.	.	.	149	1231	.
74	Q6	3	-1294	1303	.	.	.	.	.	252	.	.
75	Q6	4	-1294	1303	.	.	.	.	.	252	.	.
76	Q6	5	-1347	1356	.	.	.	.	.	252	.	.
77	Q6	6	-1607	1617	.	.	.	.	.	276	.	.
78	Q6	7	-1611	1621	.	.	.	.	.	278	.	.
79	Q6	8	-1683	1693	.	.	.	.	.	276	.	.
80	Q7	7	-1043	1051	1051	.	1	972	.	244	1051	.
81	Q8	2	-1029	1037	1037	.	1	965	.	212	1037	.

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI1 FILENAME: GJ049814B16 DATE: 05/22/85
SHIFT STD: HHB50522A16 TIME: 22:29

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLORLBENZENE (IS#1)	1542680.	2259450.	-31.	PASS
*460 D8-NAPHTHALENE (IS#2)	5635610.	8288830.	-31.	PASS
*495 D10-ACENAPHTHENE (IS#3)	2002680.	3170550.	-36.	PASS
*467 D10-PHENANTHRENE (IS#4)	2554810.	3680950.	-30.	PASS
*459 D12-CHRYSENE (IS#5)	1201500.	1553050.	-22.	PASS
*497 D12-PERYLENE (IS#6)	1113110.	1156030.	-3.	PASS

5/22/85

QUANTITATION REPORT

DATA: QJ049814B16.TI
05/22/85 22:29:00
SAMPLE: 1 UL CC#49814 (5-6-85) CS#GEN TEST EPA#T/BLK 11446
COMMENTS:
SUBMITTED BY: 16 ANALYST: 803

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

NO	NAME
1	*494 D4-1,4-DICHLORLBENZENE (IS#1)
2	441 N-NITROSODIMETHYLAMINE (G1#2) <62-75-9>
3	610 PHENOL (G1#3) <108-95-2>
4	473 ANILINE (G1#4) <62-53-3>
5	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
6	601 2-CHLOROPHENOL (G1#6) <95-57-8>
7	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
8	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
9	474 BENZYL ALCOHOL (G1#9) <100-51-6>
10	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
11	620 2-METHYLPHENOL (G1#11) <95-48-7>
12	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
13	622 4-METHYLPHENOL (G1#13) <106-44-5>
14	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
15	436 HEXACHLOROETHANE (G1#15) <67-72-1>
16	440 NITROBENZENE (G1#16) <98-95-3>
17	*460 D8-NAPHTHALENE (IS#2)
18	438 ISOPHORONE (G2#2) <78-59-1>
9	606 2-NITROPHENOL (G2#3) <88-75-5>
0	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
21	625 BENZOIC ACID (G2#5) <65-85-0>
22	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
23	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
24	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
25	439 NAPHTHALENE (G2#9) <91-20-3>
26	475 4-CHLOROANILINE (G2#10) <106-47-8>
27	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
28	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
29	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
30	*495 D10-ACENAPHTHENE (IS#3)
31	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
32	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
33	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
34	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
35	478 2-NITROANILINE (G3#6) <88-74-4>
36	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
37	402 ACENAPHTHYLENE (G3#8) <208-96-8>
38	479 3-NITROANILINE (G3#9) <99-09-2>
39	401 ACENAPHTHENE (G3#10) <83-32-9>
40	605 2,4-DINITROPHENOL (G3#11) <51-28-5>
41	607 4-NITROPHENOL (G3#12) <100-02-7>
42	476 DIBENZOFURAN (G3#13) <132-64-9>
43	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
44	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
5	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
46	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>

NO	NAME
47	432 FLUORENE (G3#18) <86-73-7>
48	480 4-NITROANILINE (G3#19) <100-01-6>
49	#467 D10-PHENANTHRENE (IS#4)
50	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
51	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
52	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
53	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
54	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
55	444 PHENANTHRENE (G4#7) <85-01-8>
56	403 ANTHRACENE (G4#8) <120-12-7>
57	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
58	431 FLUORANTHENE (G4#10) <206-44-0>
59	#459 D12-CHRYSENE (IS#5)
60	404 BENZIDINE (G5#2) <92-87-5>
61	445 PYRENE (G5#3) <129-00-0>
62	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
63	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
64	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
65	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
66	418 CHRYSENE (G5#8) <218-01-9>
67	#497 D12-PERYLENE (IS#6)
68	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
69	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
70	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
71	406 BENZO(A)PYRENE (G6#5) <50-32-8>
72	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
73	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
74	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
75	#619 2-FLUOROPHENOL (SS#1)
76	#612 D5-PHENOL (SS#2)
77	#447 D5-NITROBENEZENE (SS#3)
78	#448 2-FLUOROBIPHENYL (SS#4)
79	#628 2,4,6-TRIBROMOPHENOL (SS#5)
80	#496 D14-TERPHENYL (SS#7)
81	#471 D10-PYRENE (SS#6)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	483	7:15	1	1.000	A BB	1542680.	40.000	NG	10.74
2	42	262	3:56	1	0.542	A*VV	81616.	0.949	NG	0.25
3	94	NOT FOUND								
4	93	NOT FOUND								
5	93	NOT FOUND								
6	128	NOT FOUND								
7	146	NOT FOUND								
8	146	NOT FOUND								
9	108	NOT FOUND								
10	146	NOT FOUND								
11	108	NOT FOUND								
12	45	510	7:39	1	1.056	A VV	9760.	0.040	NG	0.01
13	108	NOT FOUND								
14	70	NOT FOUND								
15	117	NOT FOUND								
16	77	534	8:01	1	1.106	A*BB	7680.	0.077	NG	0.02
17	136	599	8:59	17	1.000	A BB	5635610.	40.000	NG	10.74
18	82	355	8:20	17	0.927	A*VB	6328.	0.041	NG	0.01
19	139	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
20	122	NOT FOUND								
21	122	NOT FOUND								
22	93	NOT FOUND								
23	162	NOT FOUND								
24	180	NOT FOUND								
25	128	NOT FOUND								
26	127	NOT FOUND								
27	225	NOT FOUND								
28	107	NOT FOUND								
29	142	NOT FOUND								
30	164	765	11:29	30	1.000	A BB	2002680.	40.000	NG	10.74
31	237	NOT FOUND								
32	196	NOT FOUND								
33	196	NOT FOUND								
34	162	NOT FOUND								
35	65	NOT FOUND								
36	163	NOT FOUND								
37	152	NOT FOUND								
38	138	NOT FOUND								
39	153	NOT FOUND								
40	184	NOT FOUND								
41	139	NOT FOUND								
42	168	NOT FOUND								
43	89	NOT FOUND								
44	165	NOT FOUND								
45	149	806	12:06	30	1.054	A BB	22944.	0.331	NG	0.09
46	204	NOT FOUND								
47	166	NOT FOUND								
48	138	NOT FOUND								
49	188	903	13:33	49	1.000	A BV	2554810.	40.000	NG	10.74
50	198	NOT FOUND								
51	169	NOT FOUND								
52	248	NOT FOUND								
53	284	NOT FOUND								
54	266	NOT FOUND								
55	178	NOT FOUND								
56	178	NOT FOUND								
57	149	957	14:22	49	1.060	A BB	35648.	0.378	NG	0.10
58	202	NOT FOUND								
59	240	1155	17:20	59	1.000	A BV	1201500.	40.000	NG	10.74
60	184	NOT FOUND								
61	202	NOT FOUND								
62	149	1096	16:27	59	0.949	A*BV	20271.	0.707	NG	0.19
63	252	NOT FOUND								
64	228	NOT FOUND								
65	149	1152	17:18	59	0.997	A*VV	35737.	0.822	NG	0.22
66	228	NOT FOUND								
67	264	1366	20:30	67	1.000	A BV	1113110.	40.000	NG	10.74
68	149	1231	18:29	67	0.901	A*VV	17302.	0.236	NG	0.06
69	252	NOT FOUND								
70	252	NOT FOUND								
71	252	NOT FOUND								
72	276	NOT FOUND								
73	278	NOT FOUND								
74	276	NOT FOUND								
75	112	377	5:40	1	0.781	A VV	1919530.	23.990	NG	6.44

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
76	99	452	6:47	1	0.936	A BV	1684190.	15.590	NG	4.19
77	82	534	8:01	17	0.891	A BV	1382810.	15.557	NG	4.18
78	172	700	10:30	30	0.915	A BB	1162460.	17.125	NG	4.60
79	141	839	12:36	30	1.097	A BB	85728.	25.385	NG	6.82
80	244	1051	15:47	59	0.910	A BV	635968.	15.245	NG	4.09
81	212	1037	15:34	59	0.898	A*BV	867008.	15.875	NG	4.26

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	3:48	1.04	10.000	0.05	0.95	50.00	0.042	2.229	0.02
3	6:41		10.000			50.00		2.908	
4	6:44		10.000			50.00		3.107	
5	6:49		10.000			50.00		2.837	
6	6:53		10.000			50.00		1.674	
7	7:04		10.000			50.00		1.590	
8	7:09		10.000			50.00		1.861	
9	7:19		10.000			50.00		1.321	
10	7:23		10.000			50.00		1.485	
11	7:28		10.000			50.00		1.724	
12	7:32	1.02	10.000	0.11	0.04	50.00	0.005	6.307	0.00
13	7:39		10.000			50.00		1.869	
14	7:42		10.000			50.00		2.362	
15	7:48		10.000			50.00		0.833	
16	7:55	1.01	10.000	0.11	0.08	50.00	0.004	2.598	0.00
17	8:51	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
18	8:14	1.01	10.000	0.09	0.04	50.00	0.001	1.120	0.00
19	8:21		10.000			50.00		0.196	
20	8:23		10.000			50.00		0.358	
1	8:29		50.000			50.00		0.151	
.2	8:31		10.000			50.00		0.656	
23	8:40		10.000			50.00		0.247	
24	8:48		10.000			50.00		0.265	
25	8:53		10.000			50.00		1.025	
26	8:58		10.000			50.00		0.430	
27	9:08		10.000			50.00		0.112	
28	9:36		10.000			50.00		0.339	
29	9:51		10.000			50.00		0.598	
30	11:21	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
31	10:10		10.000			50.00		0.223	
32	10:19		10.000			100.00		0.308	
33	10:19		100.000			100.00		0.308	
34	10:32		10.000			50.00		1.331	
35	10:42		50.000			50.00		0.686	
36	10:59		10.000			50.00		1.240	
37	11:08		10.000			50.00		2.011	
38	11:16		50.000			50.00		0.290	
39	11:24		10.000			50.00		1.438	
40	11:25		50.000			50.00		0.060	
41	11:28		50.000			50.00		0.192	
42	11:37		10.000			50.00		1.558	
43	11:38		10.000			50.00		0.408	
44	11:06		10.000			50.00		0.245	
45	11:59	1.01	10.000	0.11	0.33	50.00	0.009	1.382	0.01
46	12:05		10.000			50.00		0.445	
7	12:06		10.000			50.00		1.196	
48	12:09		50.000			50.00		0.252	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
49	13:26	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
50	12:13		50.000			50.00		0.080	
51	12:15		10.000			50.00		0.616	
2	12:46		10.000			50.00		0.198	
53	13:00		10.000			50.00		0.227	
54	13:13		50.000			50.00		0.077	
55	13:28		10.000			50.00		1.234	
56	13:31		10.000			50.00		1.146	
57	14:15	1.01	10.000	0.11	0.38	50.00	0.011	1.476	0.01
58	15:09		10.000			50.00		0.875	
59	17:13	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
60	15:18		50.000			50.00		0.111	
61	15:29		10.000			50.00		2.290	
62	16:21	1.01	10.000	0.09	0.71	50.00	0.013	0.954	0.01
63	17:07		20.000			50.00		0.238	
64	17:11		10.000			50.00		1.433	
65	17:11	1.01	10.000	0.10	0.82	50.00	0.024	1.448	0.02
66	17:16		10.000			50.00		1.163	
67	20:22	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
68	18:18	1.01	10.000	0.09	0.24	50.00	0.012	2.639	0.00
69	19:25		10.000			50.00		1.053	
70	19:25		10.000			50.00		1.053	
71	20:13		10.000			50.00		1.014	
72	24:07		10.000			50.00		1.070	
73	24:11		10.000			50.00		0.863	
74	25:16		10.000			50.00		0.847	
75	5:32	1.02	0.742	1.05	23.99	50.00	0.995	2.075	0.48
76	6:40	1.02	0.948	0.99	15.59	50.00	0.873	2.801	0.31
77	7:53	1.02	0.875	1.02	15.56	50.00	0.196	0.631	0.31
78	10:22	1.01	0.906	1.01	17.12	50.00	0.464	1.356	0.34
79	12:28	1.01	1.118	0.98	25.39	50.00	0.034	0.067	0.51
80	11:40	1.35	0.907	1.00	15.25	50.00	0.423	1.389	0.30
81	15:27	1.01	0.906	0.99	15.88	50.00	0.577	1.818	0.32

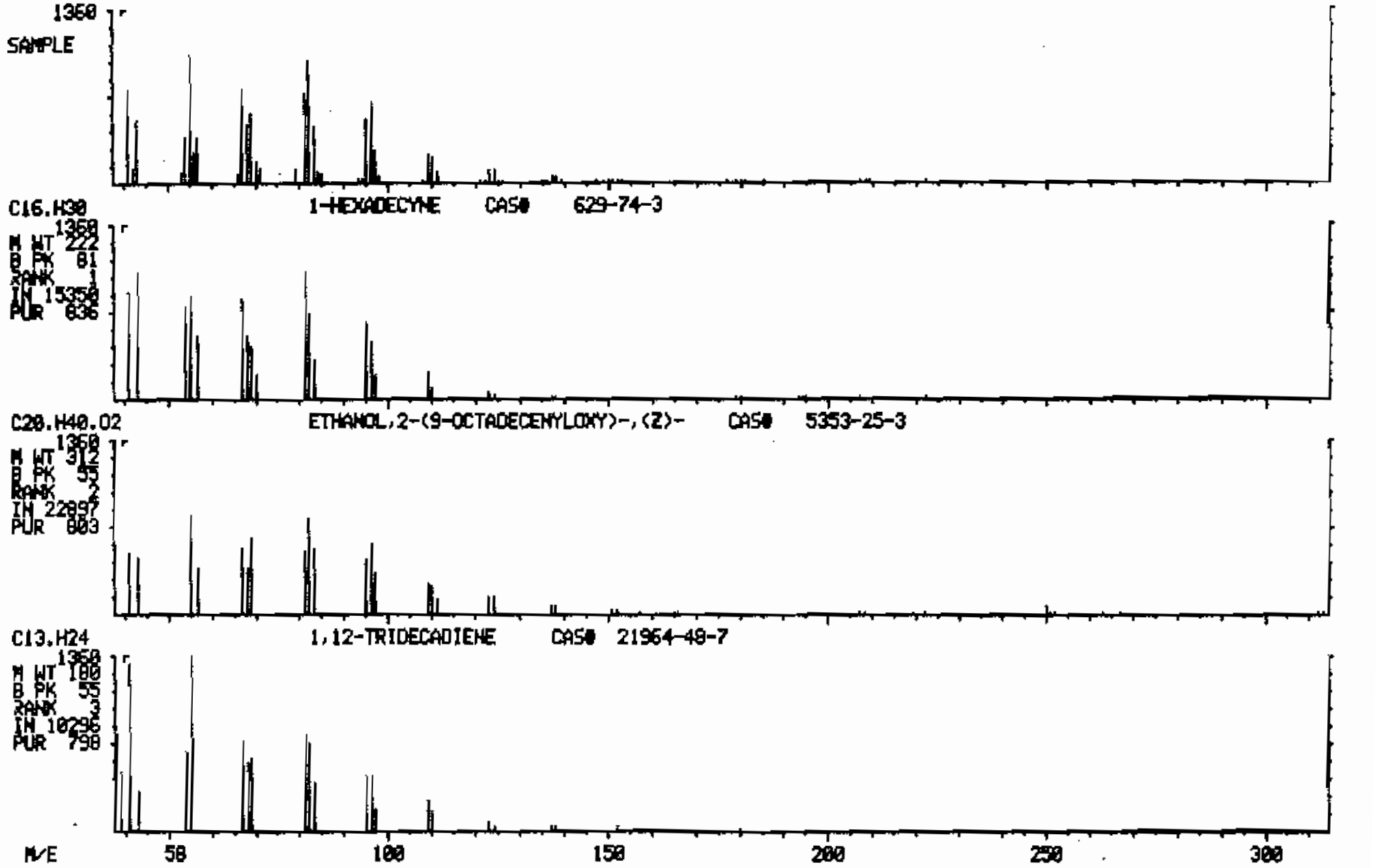
BNA (1)

COMPUCHEM LABS

LIBRARY SEARCH
05/22/85 22:29:00 + 14:51
SAMPLE: 1 UL CC#49814 (5-6-85) CS#GEN TEST EPA#T/BLK 11446

DATA: GJ049814B16 # 989
ENHANCED (100 2N 0T)

BASE M/E: 55
RIC: 7446520.



CASE#:GEN.TEST DUE DATE: 6/17/85

VOA
GC/MS WORKSHEET COMPUCHEM#: 49814

J1[ ] J3[ ] D1[ ] (:1)
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: T/BLK 11446

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5.0 ul
Surrogate Standard Volume Added 5.0 ul
BFB Filename BFB0509C11 Disk(1)2)
Blank Filename CBK0509A11 Disk (2)
Standard Filename CSTD509A11 Disk (1)2)
Sample Filename CN049814B11 Disk (1)2)

ANALYST(S): Injection 719 Work-up 719

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR IF,LA,DI,CO,RN,DW,SI,SF UP,BB,OT,VC,FO,SM

Disposition: [✓] Complete
[ ] Reinject Neat
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 3

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:
"EPA" # missing from header CLIST, QLLG

GC/MS Review SAB Date 5/13/85 Auditor_____ Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN049814B1 /_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

ENTERED 5/13/85

EPAWATER (11/84

received 5/13/85

CASE#: Gen Test DUE DATE:

MI-VOLATILE
MS WORKSHEET COMPUCHEM#: 49814

JC [✓] RI [ ] DI [ ] (:1)
J2I [ ] R2I [ ] D2I [ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 869

Sample Prep Code---056
Instrument Code---254
Compound List---142
Surrogate Std---392
Internal Std---035 (added by GC/MS)

SAS: EPA#: T/BIK 11446

GC/MS ANALYSIS
Volumes mixed: BN 100 ul Acid 100 ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/6/95
DFTPP Filename 01850522A16 Disk (2778)
Standard Filename HH850522A16 Disk (/)
Sample Filename GJ049814B16 Disk (/)

ANALYST(S): Injection 803 Work-up 803

GC/MS REVIEW

CONDITION CODE: JA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,HL,HH,YL,BL,BH,BM,YH

Non-Entry Codes TM,IL,IN,SW,CT,CB,PC,OT,MS
ED,IF,LA,DI,CQ,RN,DW,DA

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required 0

COMMENTS: ok to 5-23-95

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ) Dilute (. :1)
[ ] Reinject Neat
[ ) Send to QA

GC/MS Review JC Date 5/22/95 Auditor Date / /

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): GJ--- 816 /

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

received 5/23/95

EPAWATER (11/84)

EXTRACTION WORKSHEET

Semi-Volatiles / Miscellaneous

ASSIGNED TO: Cyril (OKH)

DATE ASSIGNED 5/6/85

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
49804	-56	Gen. Test		BS		500 ml		0.5ml	0.5ml		13	1	5/6	diluted samples w/ 500 ml extra H_2O added & 50µl surrogate added
49805		Gen Test		SS	49803	500 ml		0.5ml	0.5ml		13	1	5/6	use 49803, *use 500 ml
49806		Gen Test		SS	49803	500 ml		0.5ml	0.5ml		13	1	5/6	
49803		Gen Test	50705A			1,000 ml		1.0ml	1.0ml		13	1	5/6	
49811			50705F			1,000 ml		1.0ml	1.0ml		13	1	5/6	
49812			50705B			1,000 ml		1.0ml	1.0ml		13	1	5/6	
49813			50705C			1,000 ml		1.0ml	1.0ml		13	1	5/6	
49814			T/Blk 4446			1,000 ml		1.0ml	1.0ml		13	1	5/6	
49899				B		1,000 ml		1.0ml	1.0ml		13	1	5/6	
49900				B^2		1,000 ml		1.0ml	1.0ml		13	1	5/6	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393					
	AMT.	0.5ml					
	LOT	14598					
SPIKE	NO.		3012	202			
	AMT.		0.250ml	0.150ml			
	LOT		14558	14550			

Issued 5/10 PM

MANUAL COUNTER 272/445 ✓ 273/300 ✓

FINAL VOLUME VERIFIED OK

SUPERVISOR REVIEWED OK

EXTRACTS RECEIVED BY BD 5/6/85

McCl2 17, 20, 21, 22B

№ 6070

Volatile - Medium or Low Level Liquid

No	CC ID#	Lab Cde	Compound Name	Quant Report Value	X	Result(#) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.8		J B blank	5.0
7	252	___	ACETONE (2-PROPANONE)	~~4.8~~		BDL	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLORDETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
~	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
27	210	___	2-CHLORDETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	51.2	50.0	102.0	77-120	X	
41		BROMOFLUOROBENIENE	53.4	50.0	107.0	85-121	X	
42		D8-TOLUENE	56.4	50.0	113.0	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

P F

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5000 \text{ ul}}{\text{Volume of Sample Purged (ul)}} =$$

$$\frac{5000 \text{ ul}}{5000. \text{ (ul)}} = 1.000$$

Quant Report Amount Spiked Conversion Factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

COMPUCHEM # 049814 FILE: GJ049814B16 COMPOUND LIST 142 PAGE 1
SEMI-VOLATILE - LIQUID

	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
494	152	I	D4-1,4-DICHLORLBENZENE (IS#	483	1540000.	40.0		
441	42		N-NITROSODIMETHYLAMINE (G1#				BDL	20.
610	94		PHENOL (G1#3) <108-95-2>				BDL	20.
473	93		ANILINE (G1#4) <62-53-3>				BDL	20.
411	93		BIS(2-CHLORDETHYL)ETHER (G1				BDL	20.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	20.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	20.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	20.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	20.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	20.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	20.
412	45		BIS(2-CHLORDISOPROPYL)ETHER				BDL	20.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	20.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	20.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	20.
440	77		NITROBENZENE (G1#16) <98-95				BDL	20.
460	136	I	D8-NAPHTHALENE (IS#2)	599	5640000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	20.
606	139		2-NITROPHENOL (G2#3) <88-75				BOL	20.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	20.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	100.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	20.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	20.
5	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	20.
?	128		NAPHTHALENE (G2#9) <91-20-3				BDL	20.
475	127		4-CHLOROANILINE (G2#10) <10				BDL	20.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	20.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	20.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	20.
495	164	I	D10-ACENAPHTHENE (IS#3)	765	2000000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	20.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	20
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	20
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	20.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	100.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	20.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	20.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	100.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	20.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	100.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	100.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	20.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	20.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	20.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	20.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	20.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	20.
480	138		4-NITROANILINE (G3#19) <100				BDL	100.
^67	188	1	D10-PHENANTHRENE (IS#4)	903	2550000.	40.0		
4	198		4,6-DINITRO-2-METHYLPHENOL				BDL	100.
-43	169		N-NITROSODIPHENYLAMINE (G4#				BDL	20.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	20.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	20.
609	266		PENTACHLOROPHENOL (G4#6) <B				BDL	100.

Cmp	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	20.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	20.
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	20.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	20.
459	240	I	D12-CHRYSENE (IS#5)	1155	1200000.	40.0		
404	184		BENZIDINE (G5#2) <92-87-5>				BDL	100.
445	202		PYRENE (G5#3) <129-00-0>				BDL	20.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	20.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	40.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	20.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	20.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	20.
497	264	I	D12-PERYLENE (IS#6)	1366	1110000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	20.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	20.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	20.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	20.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	20.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	20.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	20.
619	112	S	2-FLUOROPHENOL (SS#1)			24.0	48.0%	
612	99	S	D5-PHENOL (SS#2)			15.6	31.0%	
447	82	S	D5-NITROBENEZENE (SS#3)			15.6	62.0%	
`S	172	S	2-FLUOROBIPHENYL (SS#4)			17.1	68.0%	
.S	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			25.4	51.0%	
496	244	S	D14-TERPHENYL (SS#7)			15.2	61.0%	
471	212	S	D10-PYRENE (SS#6)			15.9	64.0%	
CHECKSUMS:								
6593.	2206			5271	14040000.	368.8	385.0	

5/22/91

SEMI-VOLATILE - LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
75	619	2-FLUOROPHENOL (SS#1)	24.0	50.0	48.0	23-121	X	
76	612	D5-PHENOL (SS#2)	15.6	50.0	31.0	15-103	X	
77	447	D5-NITROBENEZENE (SS#3)	15.6	25.0	62.0	41-120	X	
78	448	2-FLUOROBIPHENYL (SS#4)	17.1	25.0	68.0	44-119	X	
79	628	2,4,6-TRIBROMOPHENOL (SS#5)	25.4	50.0	51.0	10-130	X	
80	496	D14-TERPHENYL (SS#7)	15.2	25.0	61.0	33-126	X	
81	471	D10-PYRENE (SS#6)	15.9	25.0	64.0	33-128*	X	

* ADVISORY SURROGATE ONLY

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

5/22/14

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \frac{\text{1000 ML}}{\text{VOL SAMPLE EXTRACTED (ML)}} \times \text{DILUTION FACTOR} \times 2 =$$

$$\frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1000.ML}}{\text{1000.ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{500 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{1.0ML FOR ACID \& 1.0ML FOR BN}} \times \text{GCMS DILUTION FACTOR} \times 2 =$$

$$\frac{\text{500 UL}}{\text{500 UL}} \times \frac{\text{1.0ML}}{\text{1.0ML \& 1.0ML}} \times \frac{\text{1.0}}{\text{1.0}} \times 2 = 2.000$$

QUALITY ASSURANCE NOTICE
sample # 4981M
fraction S.V

Peaks on the RIC of this sample at the retention times (scans) listed below were identified as laboratory artifacts. This was concluded from a comparison of tentetively identified compound spectra and retention times found by the Library Search routine of the sample and its associated method blank. These compounds should not be considered actual constituents of this sample frection.

scans: 989 _____ _____ _____ _____ _____

QAN10S
850218

III. SAMPLE DATA PACKAGE

CASE NO. Ave. Dioxins

SAMPLE NO. TBLK 11447 = COMPUCHEM NO. 49862

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
3. Raw Data — in order: VOA, BNA, Pesticide

1. HSL Results — Organic Analysis Data Sheets (Form I)

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
11447-7/ELF

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CN049B62B11
Sample matrix: Liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
GC Report No: _____
Contract No: 141601-PLATINUM
Date Sample
Received: 05-06-85

Volatile Compounds
Concentration: Low
Date extracted/prepared: (NO VOA SCREEN REQ.)
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.3	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	9.0	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 703/557-2490

Sample Number
VBLK 11447

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

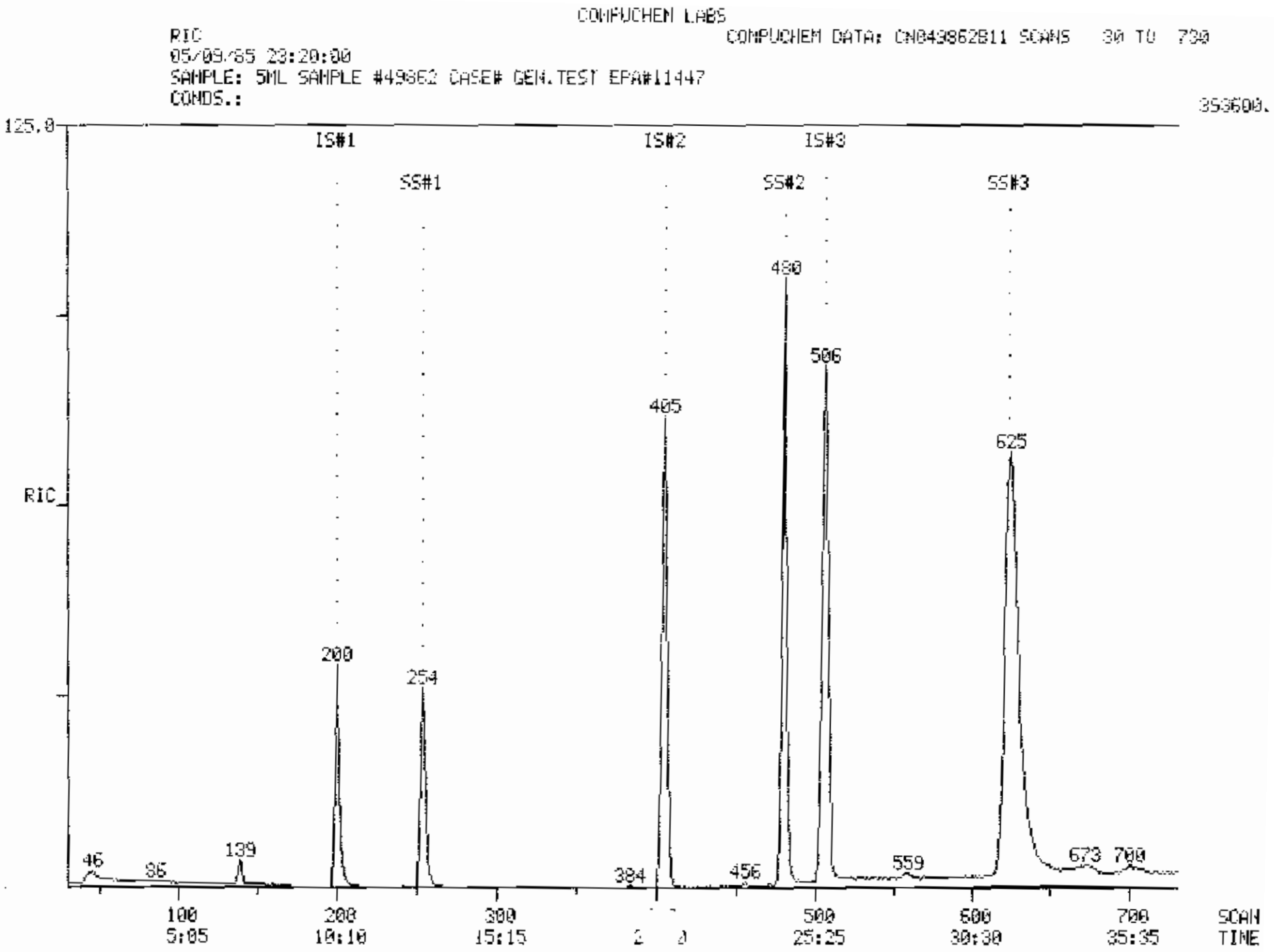
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN043862B11 SCANS 30 TO 730
05/09/85 23:20:00
SAMPLE: 5ML SAMPLE #49862 CASE# GEN.TEST EPA#11447
CONDS.:
353600.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
46
86
139
200
254
384
405
456
480
506
559
625
673
700
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/10/85 0:10:02
DATA FILE: CN049862B11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS				PLUS UNKNOWNS				LIST NAMES
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	27	42	7	1	65	E237S/E237U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	E1	1	-200	200	200	.	1	977	.	128	200	.	1
2	E2	1	-404	405	405	.	1	996	.	114	405	.	1
3	E3	1	-505	506	506	.	1	979	.	117	506	.	1
4	E1	2	-42	41	.	.	.	.	.	50	.	.	
5	E1	3	-63	62	.	.	.	.	.	94	.	.	.
6	E1	4	-79	79	.	.	.	.	.	62	.	.	.
7	E1	5	-98	98	.	.	.	.	.	64	.	.	.
8	E1	6	-140	140	139	-1	1	950	.	84	139	.	1
9	E1	7	-151	151	.	.	.	.	.	43	151	.	1
10	E1	8	-169	169	.	.	.	.	.	76	170	.	1
11	E1	9	-192	192	.	.	.	.	.	96	.	.	.
12	E1	10	-217	217	.	.	.	.	.	63	.	.	.
13	E1	11	-231	231	.	.	.	.	.	96	.	.	.
14	E1	12	-241	241	.	.	.	.	.	83	.	.	.
15	E1	13	-256	256	.	.	.	.	.	62	.	.	
16	E2	2	-254	254	.	.	.	.	.	72	256	.	2
17	E2	3	-282	282	.	.	.	.	.	97	.	.	.
18	E2	4	-290	290	.	.	.	.	.	117	.	.	.
19	E2	5	-292	292	.	.	.	.	.	43	.	.	
20	E2	6	-299	299	.	.	.	.	.	83	.	.	.
21	E2	7	-327	327	.	.	.	.	.	63	.	.	.
22	E2	8	-332	332	.	.	.	.	.	75	.	.	.
23	E2	9	-343	343	.	.	.	.	.	130	344	.	1
24	E2	10	-354	354	.	.	.	.	.	129	.	.	.
25	E2	11	-357	357	.	.	.	.	.	97	.	.	.
26	E2	12	-354	354	.	.	.	.	.	78	357	.	2
27	E2	13	-357	357	.	.	.	.	.	75	.	.	.
28	E2	14	-379	379	.	.	.	.	.	63	.	.	.
29	E2	15	-408	408	.	.	.	.	.	173	.	.	.
30	E3	2	-419	419	.	.	.	.	.	43	420	.	1
31	E3	3	-450	450	.	.	.	.	.	43	451	.	1
32	E3	4	-456	457	.	.	.	.	.	164	456	.	1
33	E3	5	-454	455	.	.	.	.	.	83	455	.	1
34	E3	6	-483	484	.	.	.	.	.	92	484	.	1
35	E3	7	-508	509	.	.	.	.	.	112	509	.	1
36	E3	8	-558	559	.	.	.	.	.	106	559	.	1
37	E3	9	-665	666	.	.	.	.	.	104	667	.	2
38	E3	10	-673	674	.	.	.	.	.	106	674	.	1
39	E3	11	-700	701	.	.	.	.	.	106	702	.	2
40	E4	2	-254	254	254	.	1	974	.	65	254	.	1
41	E4	3	-624	625	624	-1	1	994	.	95	624	.	1
42	E4	4	-479	480	480	.	1	986	.	98	480	.	1

Internal Standard Area Monitor

Method: E237 Filename: CN049862B11 Date: 05/09/85
Shift Std: CS850509B11 Time: 23:20

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	65150.	68323.	-4.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	334560.	358245.	-6.	Pass
* D5 CHLOROBENZENE(INTERNAL STANDARD)	342883.	382438.	-9.	Pass

QUANTITATION REPORT FILE: CN049862B11

DATA: CN049862B11.TI
05/09/85 23:20:00
SAMPLE: 5ML SAMPLE #49862 CASE# GEN.TEST EPA#11447
.DS.:
SUBMITTED BY 11 ANALYST: 719

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLORDETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
?	212 BROMODICHLOROHETHANE
,	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLORDETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
.	128	200	10:10	1	1.000	A BB	65151.	50.000 UG/L	15.40
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	139	7:04	1	0.695	A BB	10080.	4.374	UG/L	1.35
7	43	151	7:41	1	0.755	A VV	4040.	9.054	UG/L	2.79
8	76	170	8:38	1	0.850	A BB	918.	0.190	UG/L	0.06
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	405	20:35	14	1.000	A BB	334561.	50.000	UG/L	15.40
15	72	256	13:01	14	0.632	A*BB	406.	2.737	UG/L	0.84
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	344	17:29	14	0.849	A BB	295.	0.092	UG/L	0.03
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	357	18:09	14	0.881	A*BB	1126.	0.182	UG/L	0.06
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	506	25:43	29	1.000	A BV	342884.	50.000	UG/L	15.40
30	43	420	21:21	29	0.830	A BB	435.	0.303	UG/L	0.09
31	43	451	22:56	29	0.891	A BV	1792.	1.916	UG/L	0.59
32	164	456	23:11	29	0.901	A BB	690.	0.223	UG/L	0.07
33	83	455	23:08	29	0.899	A BB	328.	0.113	UG/L	0.03
34	92	484	24:36	29	0.957	A BB	2322.	0.486	UG/L	0.15
35	112	509	25:52	29	1.006	A BB	2524.	0.350	UG/L	0.11
36	106	559	28:25	29	1.105	A BV	2697.	0.705	UG/L	0.22
37	104	667	33:54	29	1.318	A*BV	3573.	0.380	UG/L	0.12
38	106	674	34:16	29	1.332	A BV	5455.	0.850	UG/L	0.26
39	106	702	35:41	29	1.387	A*VV	7363.	1.174	UG/L	0.36
40	65	254	12:55	1	1.270	A BV	127969.	48.512	UG/L	14.94
41	95	624	31:43	29	1.233	A BB	343515.	52.435	UG/L	16.15
42	98	480	24:24	1	2.400	A BV	407698.	50.651	UG/L	15.60

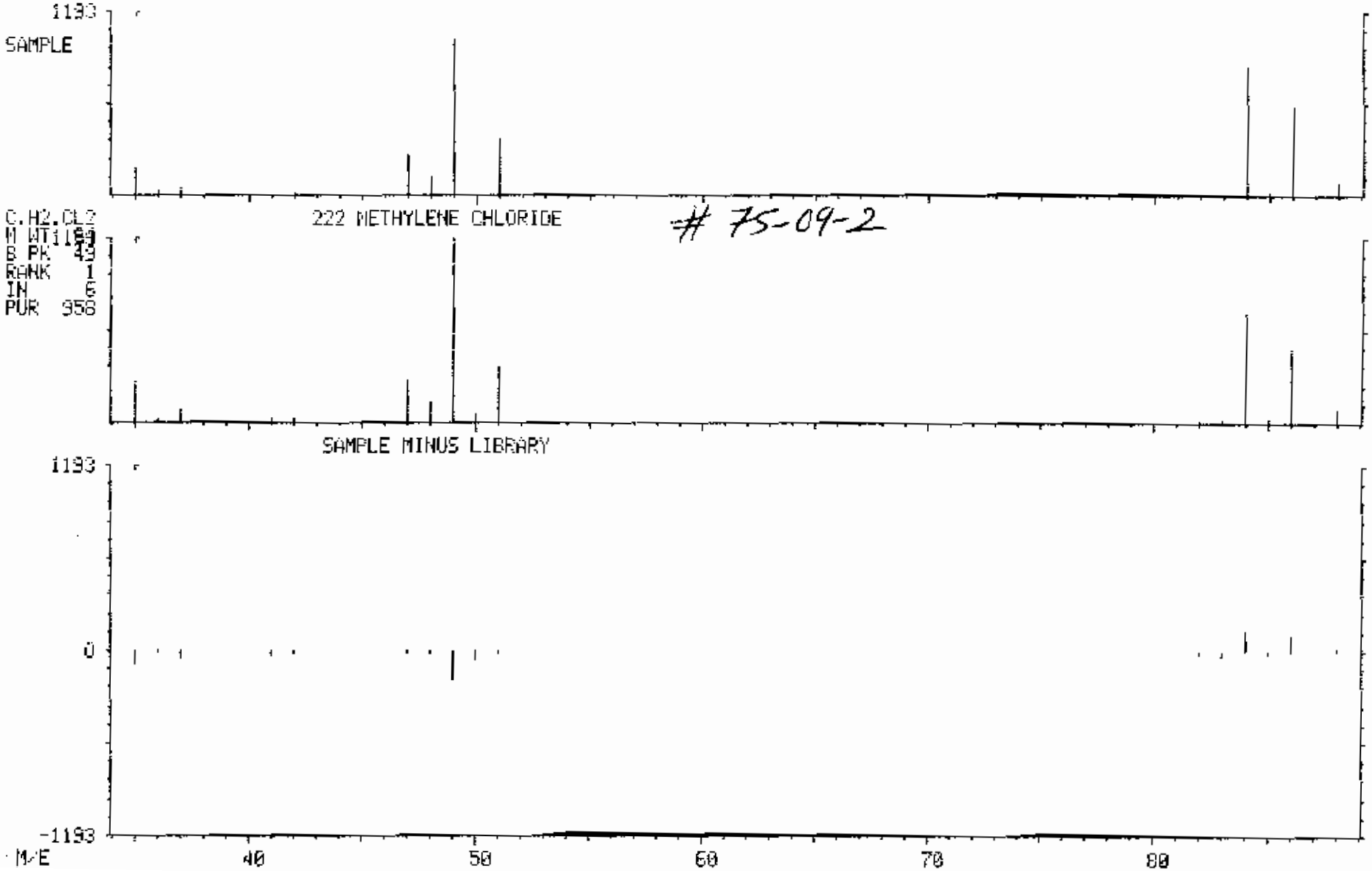
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:10	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:08		10.000			50.00		1.837	
3	3:12		10.000			50.00		2.133	
4	4:01		10.000			50.00		1.840	
5	4:59		10.000			50.00		0.980	
6	7:07	0.99	5.000	0.14	4.37	50.00	0.155	1.768	0.09
7	7:41	1.00	10.000	0.08	9.05	50.00	0.062	0.342	0.18
8	8:35	1.01	5.000	0.17	0.19	50.00	0.014	3.705	0.00
9	9:46		5.000			50.00		1.198	
10	11:02		5.000			50.00		2.134	
11	11:45		5.000			50.00		1.289	
12	12:15		5.000			50.00		2.946	
13	13:01		5.000			50.00		2.020	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:55	1.01	10.000	0.06	2.74	50.00	0.001	0.022	0.05
16	14:20		5.000			50.00		0.439	
17	14:44		5.000			50.00		0.452	
.	14:51		10.000			50.00		0.377	
19	15:12		5.000			50.00		0.527	
20	16:37		5.000			50.00		0.297	
21	16:53		5.000			50.00		0.209	
22	17:26	1.00	5.000	0.17	0.09	50.00	0.001	0.482	0.00
23	18:00		5.000			50.00		0.533	
24	18:09		5.000			50.00		0.335	
25	18:00	1.01	5.000	0.18	0.18	50.00	0.003	0.923	0.00
26	18:09		5.000			50.00		0.693	
27	19:16		10.000			50.00		0.156	
28	20:44		5.000			50.00		0.318	
29	25:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18	1.00	10.000	0.08	0.30	50.00	0.001	0.209	0.01
31	22:52	1.00	10.000	0.09	1.92	50.00	0.005	0.136	0.04
32	23:11	1.00	5.000	0.18	0.22	50.00	0.002	0.451	0.00
33	23:05	1.00	5.000	0.18	0.11	50.00	0.001	0.424	0.00
34	24:33	1.00	5.000	0.19	0.49	50.00	0.007	0.697	0.01
35	25:49	1.00	5.000	0.20	0.35	50.00	0.007	1.051	0.01
36	28:22	1.00	5.000	0.22	0.71	50.00	0.008	0.558	0.01
37	33:48	1.00	5.000	0.26	0.38	50.00	0.010	1.373	0.01
38	34:13	1.00	5.000	0.27	0.85	50.00	0.016	0.936	0.02
39	35:35	1.00	5.000	0.28	1.17	100.00	0.011	0.914	0.01
40	12:55	1.00	10.000	0.13	48.51	50.00	1.964	2.024	0.97
41	31:43	1.00	10.000	0.12	52.44	50.00	1.002	0.955	1.05
42	24:21	1.00	10.000	0.24	50.65	50.00	6.261	6.180	1.01

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 23:20:00 + 7:04
SAMPLE: 5ML SAMPLE #43862 CASE# GEN,TEST EPA#11447
ENHANCED (S 15B 2N 0T)

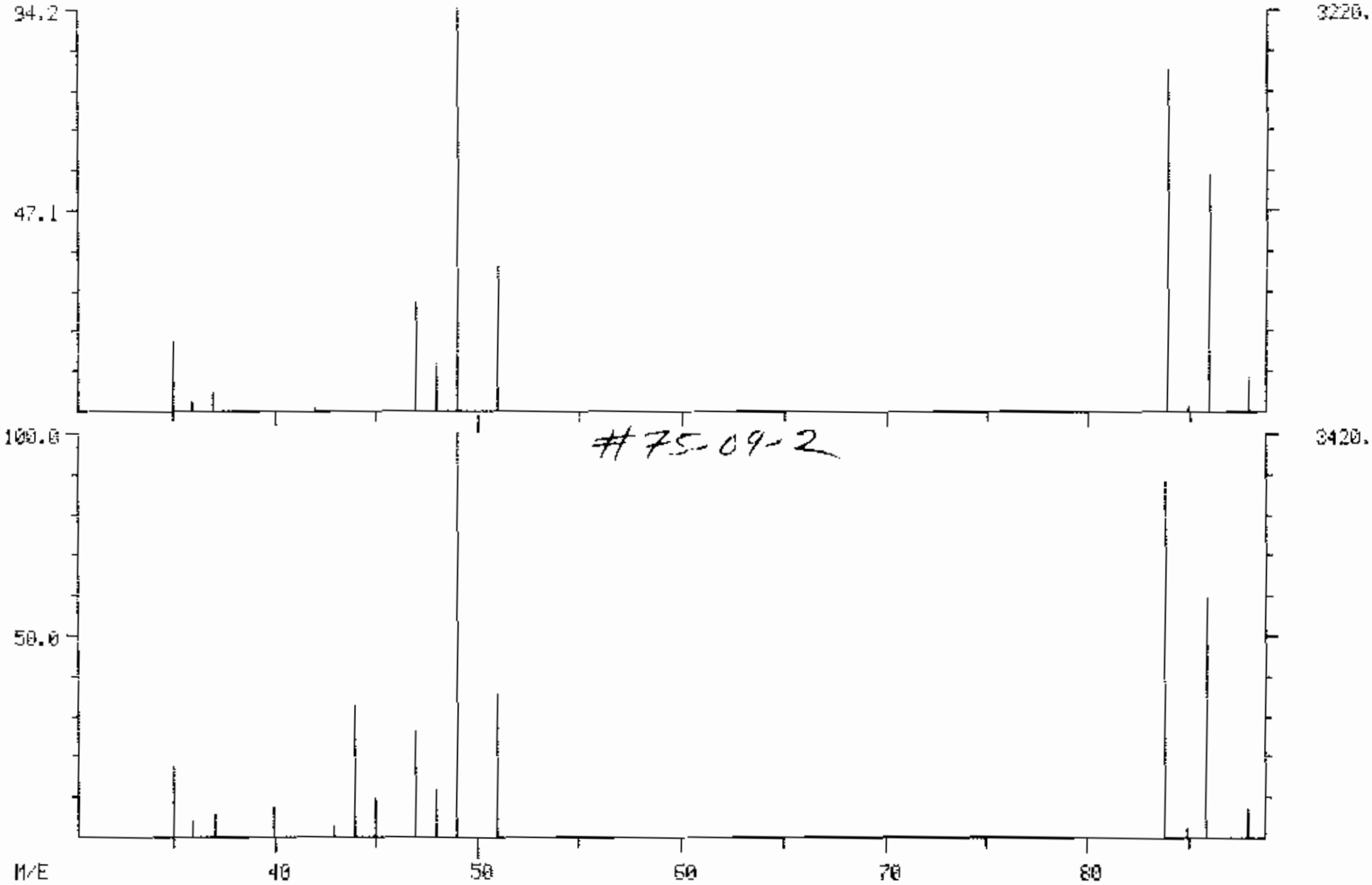
DATA: CN043862B11 # 139
BASE M/E: 49
RIC: 11343.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 23:20:00 + 7:04
SAMPLE: 5ML SAMPLE #49862 CASE# GEN.TEST EPA#1447
ENHANCED (S 150 2N)

DATA: CN049862B11 #139 BASE M/E: 49/ 49
RIC: 11343./ 14053.

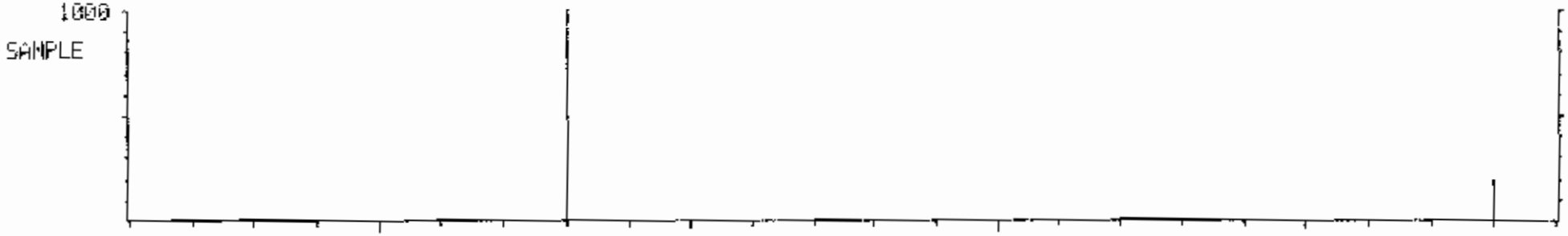


#75-09-2

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 23:20:00 + 7:41
SAMPLE: 5ML SAMPLE #49862 CASE# GEN.TEST EPA#11447
ENHANCED (S 15B 2N 0T)

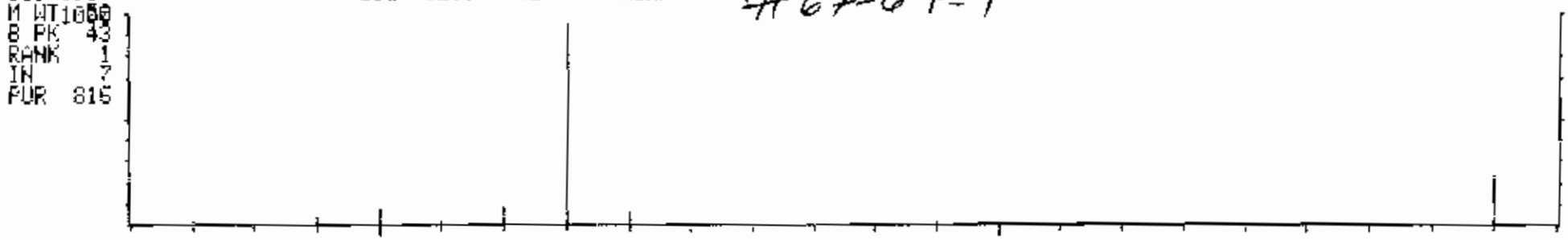
DATA: CN049862B11 # 151
BASE M/E: 43
RIC: 582.



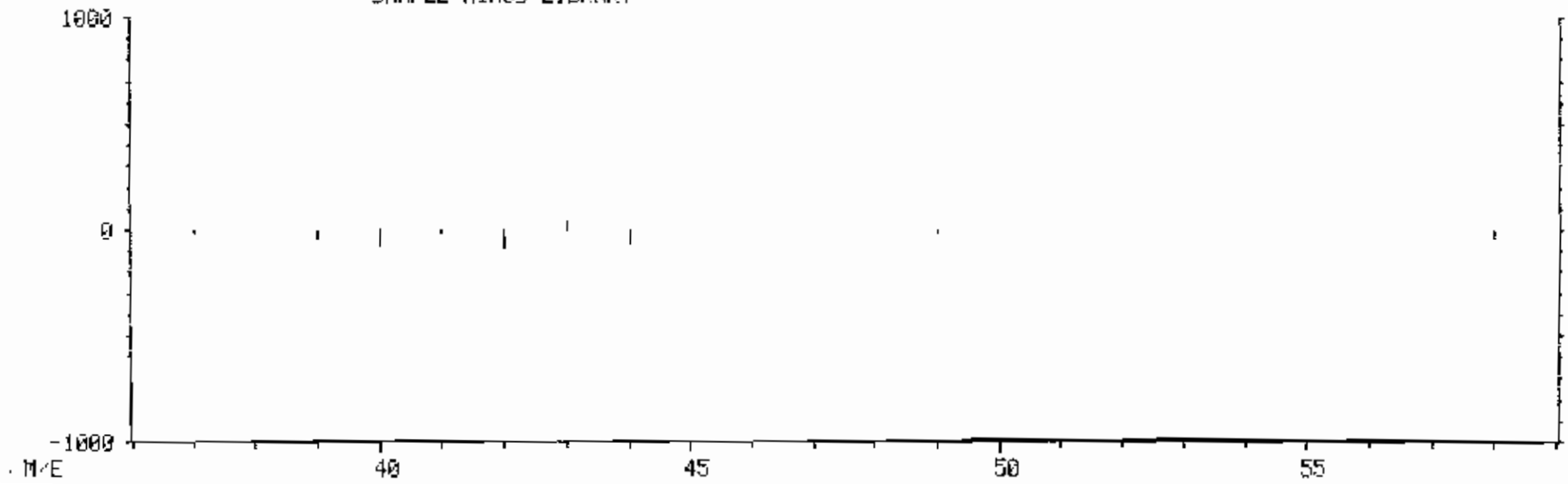
C3.H6.O
M WT 1000
B PK 43
RANK 1
IN 7
PUR 815

252 ACETONE (2-PROPANONE)

#67-64-1



SAMPLE MINUS LIBRARY

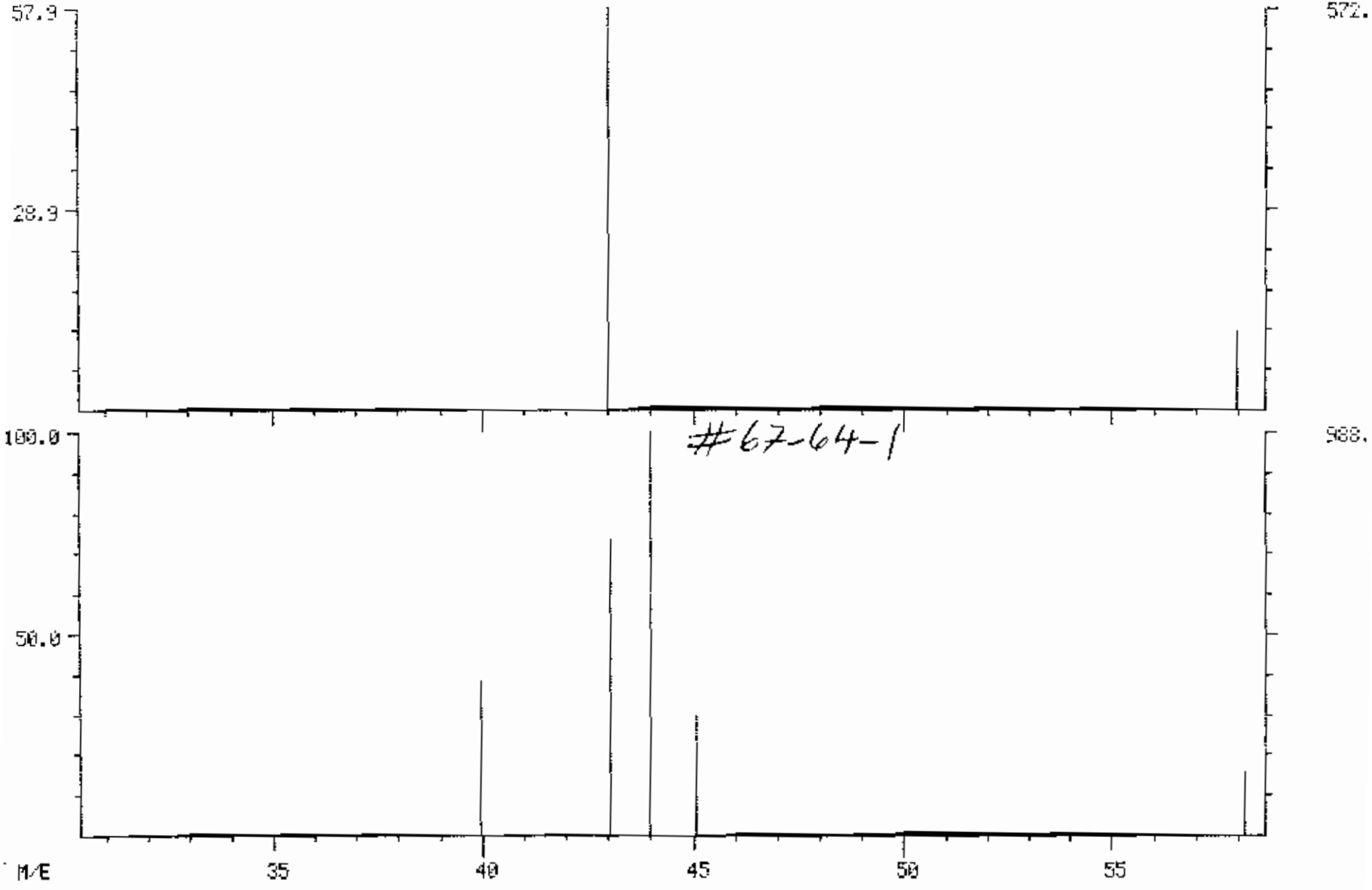


252

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 23:20:00 + 7:41
SAMPLE: 5ML SAMPLE #43862 CASE# GEN.TEST EPA#1447
ENHANCED (S 15B 2N)

DATA: CN043862B11 #151 BASE M/E: 43/ 44
RIC: 682./ 2543.



CASE#: Gen test DUE DATE:

VOA
GC/MS WORKSHEET COMPUCHEM#: 49862

J1[ ] J3[ ] D1[ ] (:1)

J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: T/BLK11447

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged

Internal Standard Volume Added 5.0 ul

Surrogate Standard Volume Added 5.0 ul

BFB Filename BFB05C9.B11 Disk(12)

Blank Filename CBB05D9.B11 Disk ( )

Standard Filename CSB05C1.B11 Disk ( )

Sample Filename CN04962.B11 Disk (12)

ANALYST(S): Injection 719 Work-up 812

GC/MS REVIEW

CONDITION CODE: 01

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC,FO,SM

Disposition: [✓] Complete

[ ] Reinject Neat

[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 2

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review [illegible] Date 5/10/85 Auditor_____Date____/____/____

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): CN04962B1/_____

QA COMMENTS:

Initials_____ Date____/____/____

FINAL REVIEW: Initials_____ Date____/____/____

ENTERED 5/13/85

SEAWATER (11/84)

CompuChem # 049862 File: CN049B62B11 Compound List 145 Page 1

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.3		J B	5.0
7	252	___	ACETONE (2-PROPANONE)	9.0		J	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/241	___	O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	F
40		D4-1,2-DICHLOROETHANE	48.5	50.0	97.0	77-120	X
41		BROMOFLUOROBENZENE	52.4	50.0	105.0	85-121	X
42		D8-TOLUENE	50.6	50.0	101.0	86-119	X

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

F F

Internal Standard (#1) Bromochloromethane > 10000 Counts ___ ___

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

III. SAMPLE DATA PACKAGE

CASE NO. Dioxin Test May 1985 Water

SAMPLE NO. TJBK 11448 = COMPUCHEM NO. 49815

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
3. Raw Data — in order: VOA, BNA, Pesticide

1. HSL Results — Organic Analysis Data Sheets (Form I)

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
11448-T/BLK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CM049815B11
Sample matrix: liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601-PLATINUM
Date Sample
Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: (NO VOA SCREEN REQ.)
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.3	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	5.9	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818, Alexandria Virginia 22313 703/557-2490

Sample Number
T1B1K.11448

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

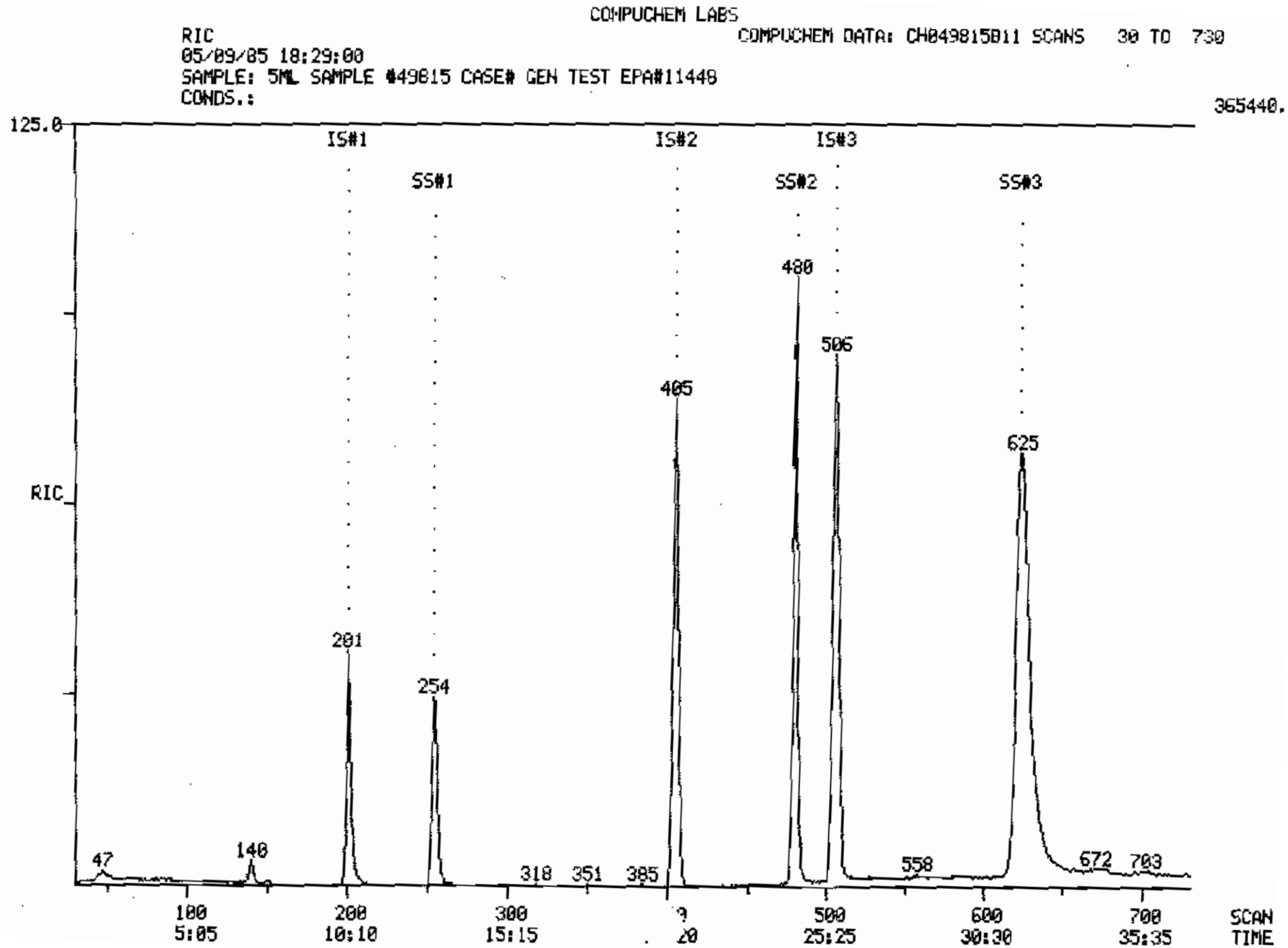
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CH049815B11 SCANS 30 TO 730
05/09/85 18:29:00
SAMPLE: 5ML SAMPLE #49815 CASE# GEN TEST EPA#11448
CONDS.:
365440.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
480
506
405
625
RIC
201
254
47
140
318
351
385
558
672
703
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/85 19:15:23
DATA FILE: CN049815B11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES - STANDARD/UNKNOWN
3	3	1	1	42	7	1	62	E237S/E237U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SAT SEL	SAT DELTA	SAT PEAKS	SAT FIT	SAT PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-198	201	201	.	1	986	.	128	201	.	1
2	E2	1	-404	405	405	.	1	994	.	114	405	.	1
3	E3	1	-506	506	506	.	1	969	.	117	506	.	1
4	E1	2	-41	44	.	.	.	.	.	50	.	.	.
5	E1	3	-60	63	.	.	.	.	.	94	.	.	.
6	E1	4	-76	79	.	.	.	.	.	62	.	.	.
7	E1	5	-95	98	.	.	.	.	.	64	.	.	.
8	E1	6	-137	140	140	.	1	924	.	94	140	.	1
9	E1	7	-148	151	.	.	.	.	.	43	152	.	1
10	E1	8	-167	170	.	.	.	.	.	76	.	.	.
11	E1	9	-190	192	.	.	.	.	.	96	.	.	.
12	E1	10	-215	217	.	.	.	.	.	63	.	.	.
13	E1	11	-230	232	.	.	.	.	.	96	.	.	.
14	E1	12	-240	242	.	.	.	.	.	83	.	.	.
15	E1	13	-255	257	.	.	.	.	.	62	.	.	.
16	E2	2	-253	255	.	.	.	.	.	72	.	.	.
17	E2	3	-281	283	.	.	.	.	.	97	.	.	.
18	E2	4	-289	291	.	.	.	.	.	117	.	.	.
19	E2	5	-291	293	.	.	.	.	.	43	.	.	.
20	E2	6	-298	300	.	.	.	.	.	83	.	.	.
21	E2	7	-326	328	.	.	.	.	.	63	.	.	.
22	E2	8	-331	333	.	.	.	.	.	75	.	.	.
23	E2	9	-342	343	.	.	.	.	.	130	.	.	.
24	E2	10	-354	355	.	.	.	.	.	129	.	.	.
25	E2	11	-356	357	.	.	.	.	.	97	.	.	.
26	E2	12	-353	354	.	.	.	.	.	78	355	.	2
27	E2	13	-357	358	.	.	.	.	.	75	.	.	.
28	E2	14	-378	379	.	.	.	.	.	63	.	.	.
29	E2	15	-408	409	.	.	.	.	.	173	.	.	.
30	E3	2	-419	420	.	.	.	.	.	43	.	.	.
31	E3	3	-450	451	.	.	.	.	.	43	453	.	2
32	E3	4	-455	456	.	.	.	.	.	164	.	.	.
33	E3	5	-454	455	.	.	.	.	.	83	.	.	.
34	E3	6	-483	484	.	.	.	.	.	92	484	.	1
35	E3	7	-508	509	.	.	.	.	.	112	.	.	.
36	E3	8	-558	558	.	.	.	.	.	106	558	.	1
37	E3	9	-665	664	.	.	.	.	.	104	.	.	.
38	E3	10	-674	673	.	.	.	.	.	106	673	.	1
39	E3	11	-701	700	.	.	.	.	.	106	699	.	2
40	E4	2	-253	255	254	-1	1	970	.	65	254	.	1
41	E4	3	-624	624	624	.	1	998	.	95	624	.	1
42	E4	4	-479	480	480	.	1	985	.	98	480	.	1

Internal Standard Area Monitor

Method: E237 Filename: CN049815811 Date: 05/09/85
Shift Std: CT850509A11 Time: 18:29

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	61681.	59680.	3.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	321485.	309280.	4.	Pass
* DS CHLOROBENZENE(INTERNAL STANDARD)	329815.	322431.	2.	Pass

QUANTITATION REPORT FILE: CN049815B11

DATA: CN049815B11.TI
05/09/85 18:29:00
SAMPLE: 5ML SAMPLE #49815 CASE# GEN TEST EPA#11448
OS.:
SUBMITTED BY: 11 ANALYST: 719

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLORDMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
[illegible]	212 BROMODICHLOROMETHANE
[illegible]	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLORDETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENIENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
[illegible]	128	201	10:13	1	1.000	A BB	61682.	50.000 UG/L	15.84
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	140	7:07	1	0.697	A BB	8937.	4.313	UG/L	1.37
7	43	152	7:44	1	0.756	A BB	2045.	5.986	UG/L	1.90
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	405	20:35	14	1.000	A BV	321486.	50.000	UG/L	15.84
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	93	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	355	18:03	14	0.877	A*BB	421.	0.079	UG/L	0.03
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	506	25:43	29	1.000	A BV	329816.	50.000	UG/L	15.84
30	43	NOT FOUND								
1	43	453	23:02	29	0.895	A*BB	458.	0.647	UG/L	0.21
2	164	NOT FOUND								
33	83	NOT FOUND								
34	92	484	24:36	29	0.957	A BB	1106.	0.264	UG/L	0.08
35	112	NOT FOUND								
36	106	558	28:22	29	1.103	A BB	790.	0.226	UG/L	0.07
37	104	NOT FOUND								
38	106	673	34:13	29	1.330	A BV	3450.	0.718	UG/L	0.23
39	106	699	35:32	29	1.381	A*VV	2877.	0.691	UG/L	0.22
40	65	254	12:55	1	1.264	A BV	121135.	48.031	UG/L	15.22
41	95	624	31:43	29	1.233	A BB	330244.	51.753	UG/L	16.40
42	98	480	24:24	1	2.388	A BV	380891.	52.927	UG/L	16.77

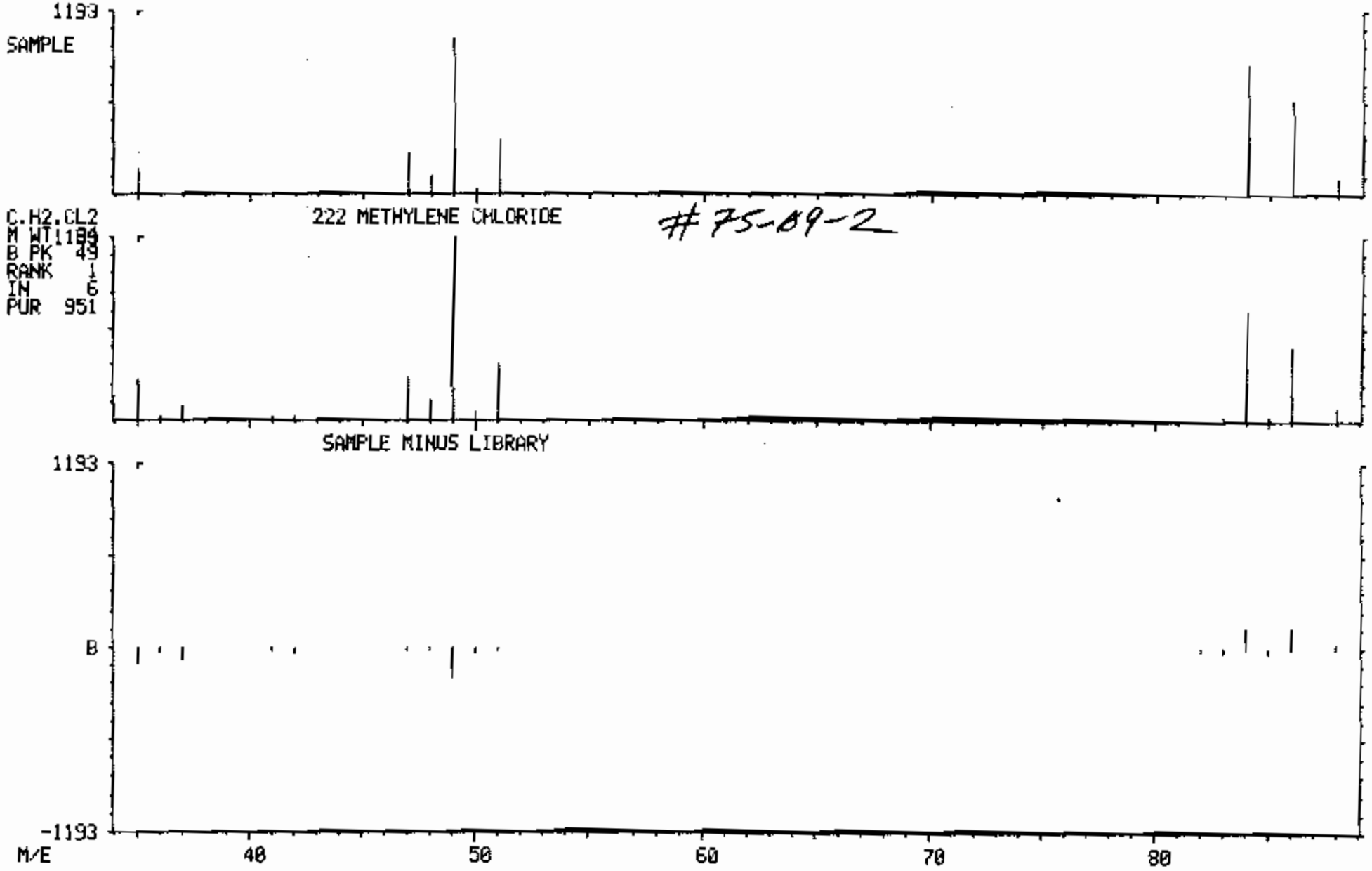
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05		10.000			50.00		1.788	
3	3:03		10.000			50.00		2.014	
4	3:52		10.000			50.00		1.752	
5	4:50		10.000			50.00		0.978	
6	6:58	1.02	5.000	0.14	4.31	50.00	0.145	1.680	0.09
7	7:31	1.03	10.000	0.08	5.99	50.00	0.033	0.277	0.12
8	8:29		5.000			50.00		2.546	
9	9:39		5.000			50.00		1.075	
10	10:56		5.000			50.00		1.983	
11	11:41		5.000			50.00		1.153	
12	12:12		5.000			50.00		2.753	
13	12:58		5.000			50.00		1.914	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52		10.000			50.00		0.019	
16	14:17		5.000			50.00		0.416	
	14:41		5.000			50.00		0.421	
__	14:48		10.000			50.00		0.302	
19	15:09		5.000			50.00		0.484	
20	16:34		5.000			50.00		0.280	
21	16:50		5.000			50.00		0.181	
22	17:23		5.000			50.00		0.432	
23	18:00		5.000			50.00		0.478	
24	18:06		5.000			50.00		0.296	
25	17:57	1.01	5.000	0.18	0.08	50.00	0.001	0.827	0.00
26	18:09		5.000			50.00		0.622	
27	19:13		10.000			50.00		0.122	
28	20:44		5.000			50.00		0.305	
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.174	
31	22:52	1.01	10.000	0.09	0.65	50.00	0.001	0.107	0.01
32	23:08		5.000			50.00		0.437	
33	23:05		5.000			50.00		0.403	
34	24:33	1.00	5.000	0.19	0.26	50.00	0.003	0.635	0.01
35	25:49		5.000			50.00		0.972	
36	28:22	1.00	5.000	0.22	0.23	50.00	0.002	0.530	0.00
37	33:48		5.000			50.00		1.075	
38	34:16	1.00	5.000	0.27	0.72	50.00	0.010	0.729	0.01
39	35:38	1.00	5.000	0.28	0.69	100.00	0.004	0.631	0.01
40	12:52	1.00	10.000	0.13	48.03	50.00	1.964	2.044	0.96
41	31:43	1.00	10.000	0.12	51.75	50.00	1.001	0.967	1.04
42	24:21	1.00	10.000	0.24	52.93	50.00	6.175	5.834	1.06

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 18:29:00 + 7:07
SAMPLE: 5ML SAMPLE #49815 CASE# GEN TEST EPA#11448
ENHANCED (S 15B 2N 0T)

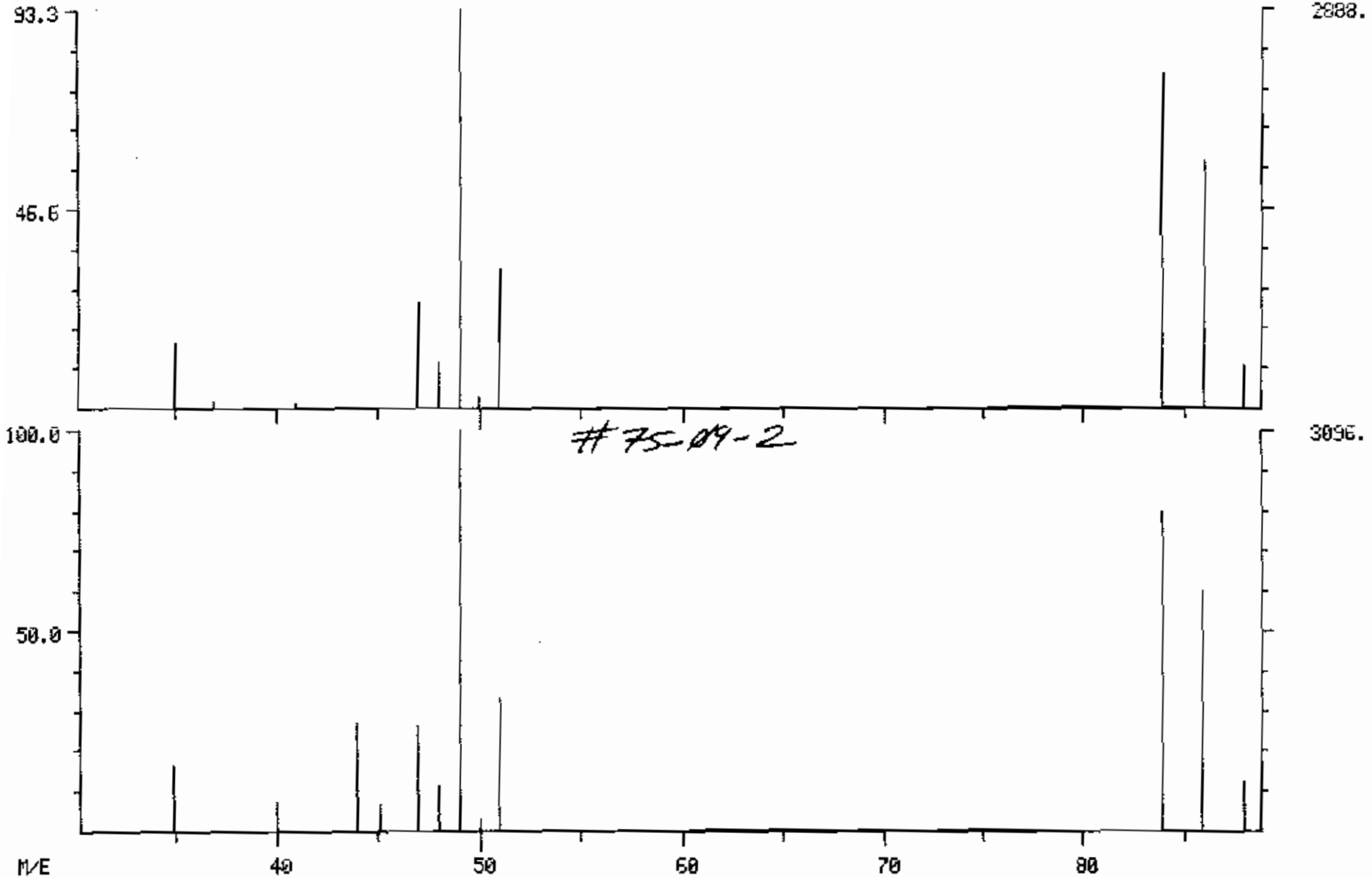
DATA: CN049815B11 # 140
BASE M/E: 49
RIC: 10127.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 18:29:00 + 7:07
SAMPLE: 5ML SAMPLE #49815 CASE# GEN TEST EPA#11448
ENHANCED (S 15B 2N)

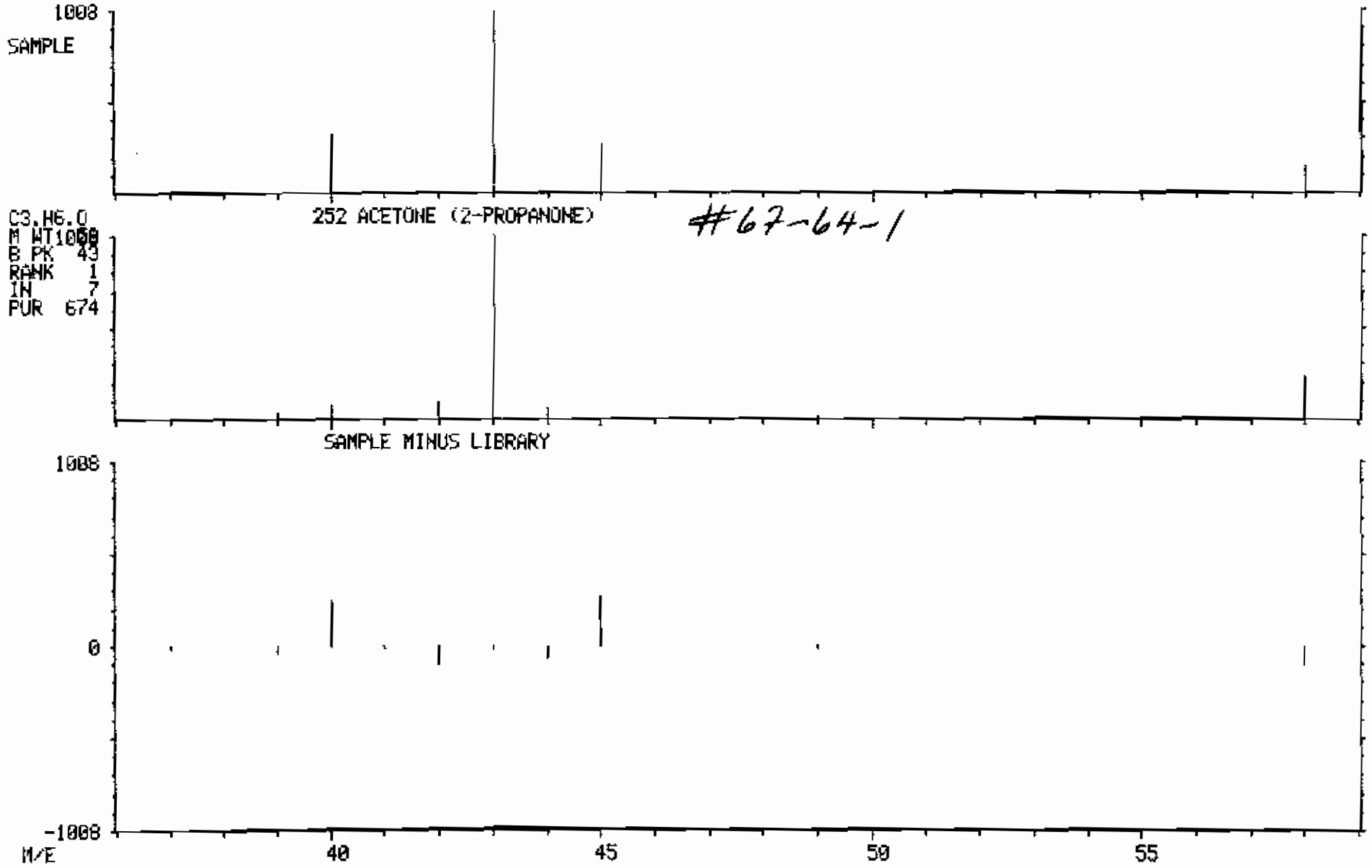
DATA: CN049815B11 #140 BASE M/E: 49/ 49
RIC: 10127./ 11971.



COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 18:29:00 + 7:44
SAMPLE: 5ML SAMPLE #49815 CASE# GEN TEST EPA#11448
ENHANCED (S 15B 2N 0T)

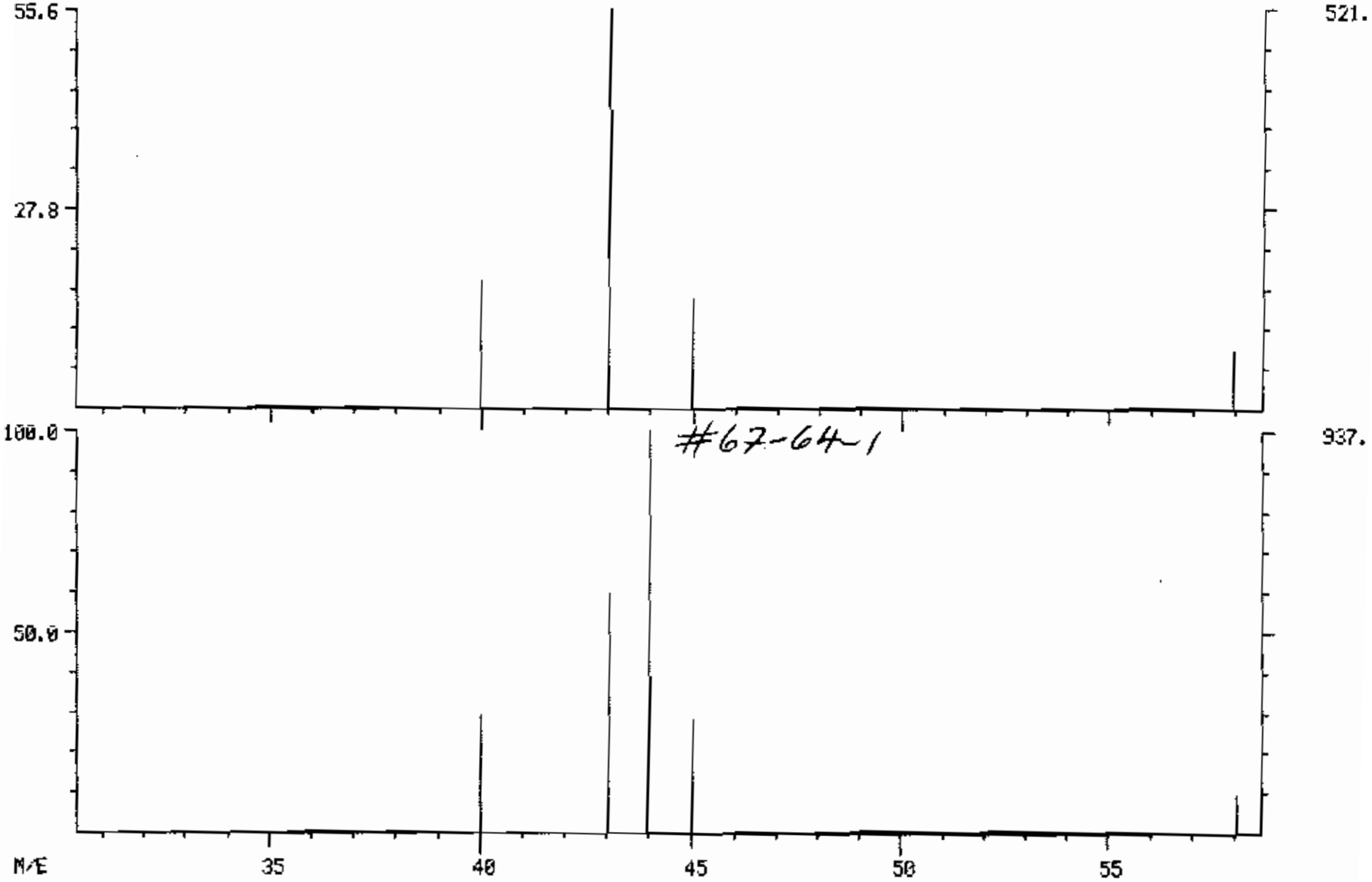
DATA: CN049815B11 # 152
BASE M/E: 43
RIC: 905.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 18:29:00 + 7:44
SAMPLE: 5ML SAMPLE #49815 CASE# GEN TEST EPA#11448
ENHANCED (S 15B 2N)

DATA: CN049815B11 #152 BASE M/E: 43/ 44
RIC: 905./ 2127.



CASE#:GEN.TEST DUE DATE: 6/17/85

VOA J1[ ] J3[ ] D1[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 49815
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: T/BLK 11448

GC/MS ANALYSIS
Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5.0 ul
Surrogate Standard Volume Added 5.0 ul
BFB Filename BFB0509C11 Disk(112)
Blank Filename CFB0509B11 Disk (112)
Standard Filename CFB0509A11 Disk (↓)
Sample Filename CN049815B11 Disk (112)

ANALYST(S): Injection JG Work-up JG

GC/MS REVIEW

CONDITION CODE: 01

Entry Codes OK,JS,SM,SL,SN,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,S1,SF
UP,BB,OT,VC,FO,SM

Disposition: [✓] Complete
[ ] Reinject Neat
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review JWH Date 5/13/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN049815B11 /_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

EPAWATER (11/84)

5/13/85

received
5/13/85

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.3		J	5.0
7	252	___	ACETONE (2-PROPANONE)	5.9		J	10.0
8	254	___	CARBON DIBULFIDE			BDL	5.0
9	216	___	1,1-OICHLORDETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLORDETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLDROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLORDETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLORDETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/	___	241 O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	48.0	50.0	96.0	77-120	X	
41		BROMOFLUOROBENZENE	51.8	50.0	104.0	85-121	X	
42		D8-TOLUENE	52.9	50.0	106.0	86-119	X	

* Advisory surrogate only

++ % Recovery = Quant report value / Quant report amount spiked X 100 %

F F

Internal Standard (#1) Bromochloromethane > 10000 Counts /

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.

III. SAMPLE DATA PACKAGE

CASE NO. Gen. Stat Mon 1985 Water

SAMPLE NO. 11450T/BLK = COMPUCHEM NO. 49817

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
3. Raw Data — in order: VOA, BNA, Pesticide

1. HSL Results — Organic Analysis Data Sheets (Form I)

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
11450-T/BLK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CN049817B11
Sample matrix: liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601-PLATINUM
Date Sample
Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: (NO VOA SCREEN REQ.)
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.6	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	7.7	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-34-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides)/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
11450

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

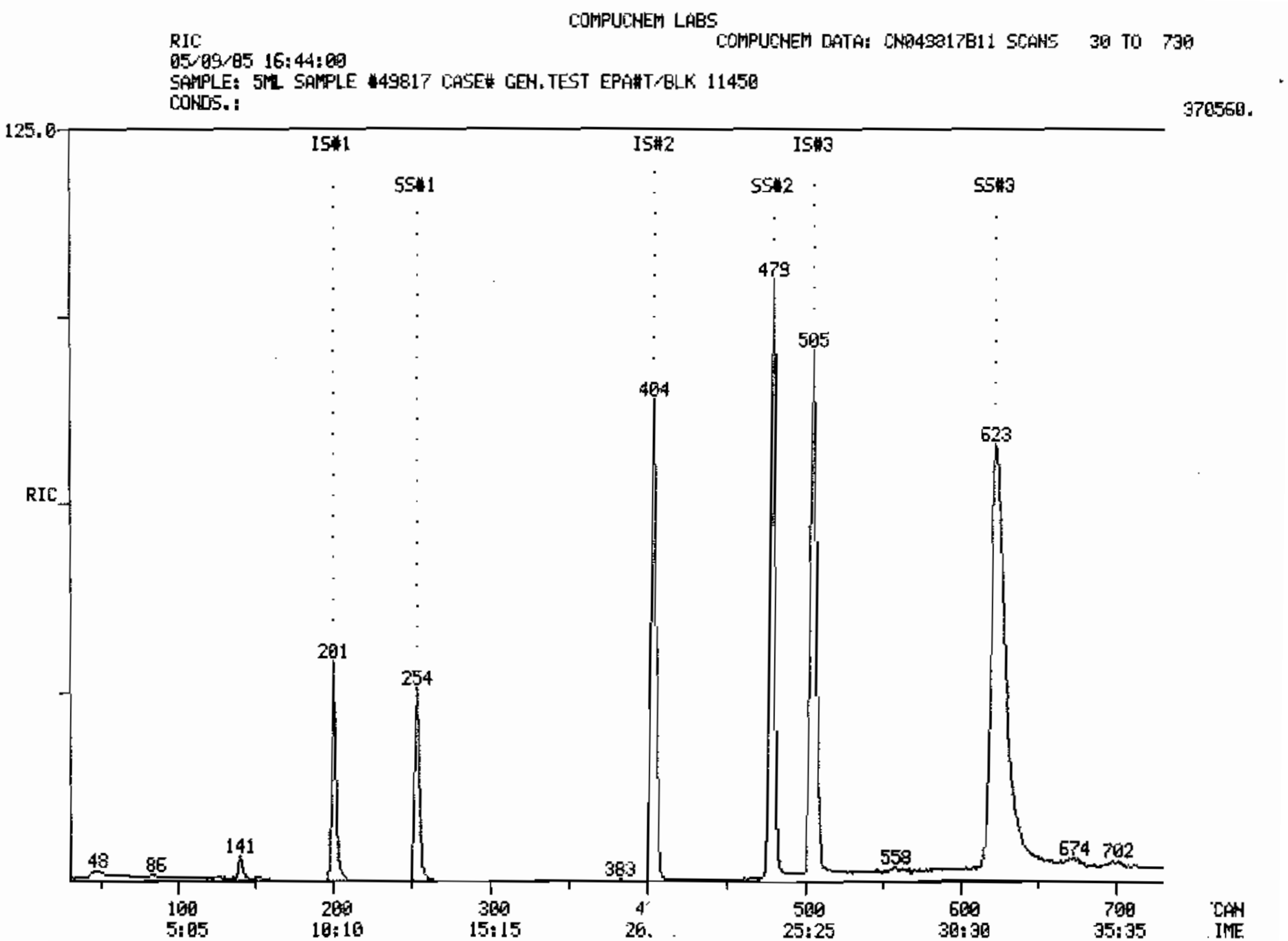
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN049817B11 SCANS 30 TO 730
05/09/85 16:44:00
SAMPLE: 5ML SAMPLE #49817 CASE# GEN.TEST EPA#T/BLK 11450
CONDS.:
970560.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
479
505
404
623
201
254
48
86
141
383
558
674
702
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/85 17:30:51
DATA FILE: CN049817B11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

--- STANDARDS ---				--- PLUS UNKNOWNS ---				- LIST NAMES -
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	26	42	7	1	76	E237S/E23TU

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND			SEARCH					BAT	CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA PEAKS
1	E1	1	-198	201	201	.	1	985	.	128	201	. 1
2	E2	1	-404	404	404	.	1	994	.	114	404	. 1
3	E3	1	-506	505	505	.	1	975	.	117	505	. 1
4	E1	2	-41	45	.	.	.	.	.	50	.	. .
5	E1	3	-60	64	.	.	.	.	.	94	.	. .
6	E1	4	-76	80	.	.	.	.	.	62	.	. .
7	E1	5	-95	99	.	.	.	.	.	64	.	. .
8	E1	6	-137	140	141	1	1	915	.	84	141	. 1
9	E1	7	-148	151	.	.	.	.	.	43	152	. 1
10	E1	8	-167	170	.	.	.	.	.	76	.	. .
11	E1	9	-190	193	.	.	.	.	.	96	.	. .
12	E1	10	-215	217	.	.	.	.	.	63	.	. .
13	E1	11	-230	232	.	.	.	.	.	96	.	. .
14	E1	12	-240	242	.	.	.	.	.	83	.	. .
15	E1	13	-255	257	.	.	.	.	.	62	.	. .
16	E2	2	-253	255	.	.	.	.	.	72	.	. .
17	E2	3	-281	283	.	.	.	.	.	97	.	. .
	E2	4	-289	291	.	.	.	.	.	117	.	. .
_/	E2	5	-291	293	.	.	.	.	.	43	.	. .
20	E2	6	-298	300	.	.	.	.	.	83	.	. .
21	E2	7	-326	327	.	.	.	.	.	63	.	. .
22	E2	8	-331	332	.	.	.	.	.	75	.	. .
23	E2	9	-342	343	.	.	.	.	.	130	.	. .
24	E2	10	-354	355	.	.	.	.	.	129	.	. .
25	E2	11	-356	357	.	.	.	.	.	97	.	. .
26	E2	12	-353	354	.	.	.	.	.	78	355	. 1
27	E2	13	-357	358	.	.	.	.	.	75	.	. .
28	E2	14	-378	379	.	.	.	.	.	63	.	. .
29	E2	15	-408	408	.	.	.	.	.	1T3	.	. .
30	E3	2	-419	419	.	.	.	.	.	43	.	. .
31	E3	3	-450	450	.	.	.	.	.	43	452	. 1
32	E3	4	-455	455	.	.	.	.	.	164	.	. .
33	E3	5	-454	454	.	.	.	.	.	83	.	. .
34	E3	6	-483	483	.	.	.	.	.	92	483	. 1
35	E3	7	-508	507	.	.	.	.	.	112	.	. .
36	E3	8	-558	557	.	.	.	.	.	106	558	. 1
37	E3	9	-665	663	.	.	.	.	.	104	.	. .
38	E3	10	-674	672	.	.	.	.	.	106	671	. 2
39	E3	11	-701	699	.	.	.	.	.	106	699	. 2
40	E4	2	-253	255	254	-1	1	972	.	65	254	. 1
41	E4	3	-624	622	623	1	1	994	.	95	623	. 1
42	E4	4	-479	479	479	.	1	988	.	98	479	. 1

Internal Standard Area Monitor

Method: E237 Filename: CN049817B11 Date: 05/09/85
Shift Std: CT850509A11 Time: 16:44

Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
* BROMOCHLOROMETHANE (IS)	59998.	59680.	1.	Pass
* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	321531.	309280.	4.	Pass
* D5 CHLOROBENIENE(INTERNAL STANDARD)	328786.	322431.	2.	Pass

QUANTITATION REPORT FILE: CN049817B11

DATA: CN049817B11.TI
05/09/85 16:44:00
SAMPLE: 5ML SAMPLE #49817 CASE# GEN. TEST EPA#T/BLK 11450
MDS. :
SUBMITTED BY: 11 ANALYST: 719

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

NO	NAME
1	* BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLORDETHANE
14	* 1,4 DIFLUOROBENZENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
19	212 BROMODICHLOROMETHANE
20	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	* D5 CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLORDETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENZENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLDROETHANE
41	# BROMOFLUOROBENZENE
42	# D8-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	201	10:13	1	1.000	A BV	59999.	50.000 UG/L	15.55
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
	84	141	7:10	1	0.701	A BV	9454.	4.691	UG/L	1.46
	43	152	7:44	1	0.756	A BV	2590.	7.795	UG/L	2.42
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	404	20:32	14	1.000	A BV	321532.	50.000	UG/L	15.55
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	355	18:03	14	0.879	A BB	572.	0.108	UG/L	0.03
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	505	25:40	29	1.000	A BV	328786.	50.000	UG/L	15.55
30	43	NOT FOUND								
31	43	452	22:59	29	0.895	A BV	782.	1.109	UG/L	0.34
	164	NOT FOUND								
33	83	NOT FOUND								
34	92	483	24:33	29	0.956	A BB	1820.	0.436	UG/L	0.14
35	112	NOT FOUND								
36	106	558	28:22	29	1.105	A BB	1199.	0.344	UG/L	0.11
37	104	NOT FOUND								
38	106	671	34:07	29	1.329	A*BB	5952.	1.242	UG/L	0.39
39	106	699	35:32	29	1.384	A*BB	4926.	1.186	UG/L	0.37
40	65	254	12:55	1	1.264	A BB	120322.	49.047	UG/L	15.26
41	95	623	31:40	29	1.234	A BB	325144.	51.113	UG/L	15.90
42	98	479	24:21	1	2.383	A BV	381178.	54.453	UG/L	16.94

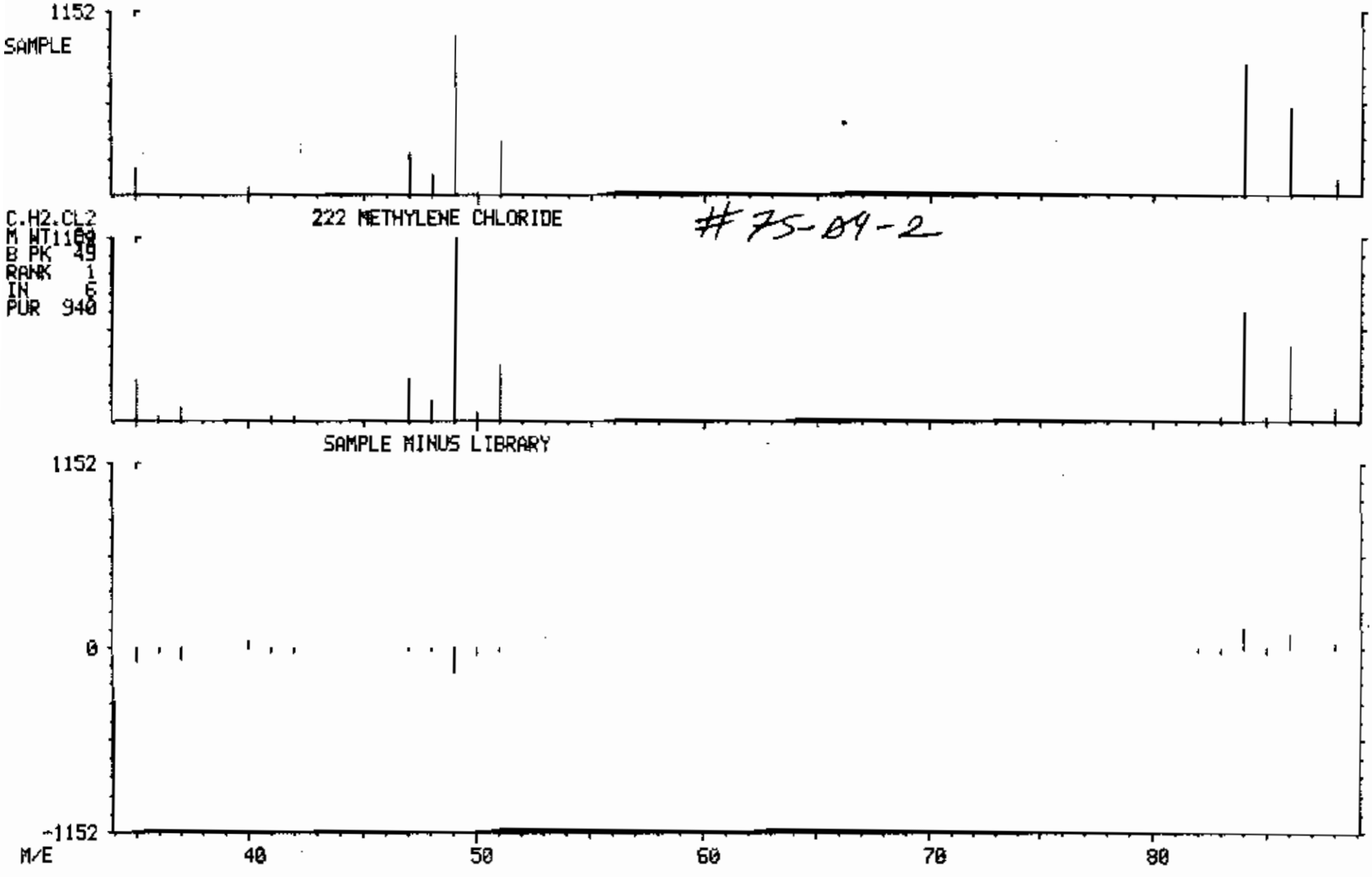
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05		10.000			50.00		1.788	
3	3:03		10.000			50.00		2.014	
4	3:52		10.000			50.00		1.752	
5	4:50		10.000			50.00		0.978	
6	6:58	1.03	5.000	0.14	4.69	50.00	0.158	1.680	0.09
7	7:31	1.03	10.000	0.08	7.79	50.00	0.043	0.277	0.16
8	8:29		5.000			50.00		2.546	
9	9:39		5.000			50.00		1.075	
10	10:56		5.000			50.00		1.983	
11	11:41		5.000			50.00		1.153	
12	12:12		5.000			50.00		2.753	
13	12:58		5.000			50.00		1.914	
	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52		10.000			50.00		0.019	
16	14:17		5.000			50.00		0.416	
17	14:41		5.000			50.00		0.421	
18	14:48		10.000			50.00		0.302	
19	15:09		5.000			50.00		0.484	
20	16:34		5.000			50.00		0.280	
21	16:50		5.000			50.00		0.181	
22	17:23		5.000			50.00		0.432	
23	18:00		5.000			50.00		0.478	
24	18:06		5.000			50.00		0.296	
25	17:57	1.01	5.000	0.18	0.11	50.00	0.002	0.827	0.00
26	18:09		5.000			50.00		0.622	
27	19:13		10.000			50.00		0.122	
28	20:44		5.000			50.00		0.305	
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.174	
31	22:52	1.00	10.000	0.89	1.11	50.00	0.002	0.107	0.02
32	23:08		5.000			50.00		0.437	
33	23:05		5.000			50.00		0.403	
34	24:33	1.00	5.000	0.19	0.44	50.00	0.006	0.635	0.01
35	25:49		5.000			50.00		0.972	
36	28:22	1.00	5.800	0.22	0.34	50.00	0.004	0.530	0.01
37	33:48		5.000			50.00		1.075	
38	34:16	1.00	5.000	0.27	1.24	50.00	0.018	0.729	0.02
39	35:38	1.00	5.000	0.28	1.19	100.80	0.007	0.631	0.01
40	12:52	1.00	10.000	0.13	49.05	50.00	2.005	2.044	0.98
41	31:43	1.00	10.000	0.12	51.11	50.00	0.989	0.967	1.02
42	24:21	1.00	10.000	0.24	54.45	50.00	6.353	5.834	1.09

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 16:44:00 + 7:10
SAMPLE: 5ML SAMPLE #49817 CASE# GEN.TEST EPA#T/BLK 11450
ENHANCED (S 15B 2N 0T)

DATA: CN049817B11 # 141
BASE M/E: 49
RIC: 10479.

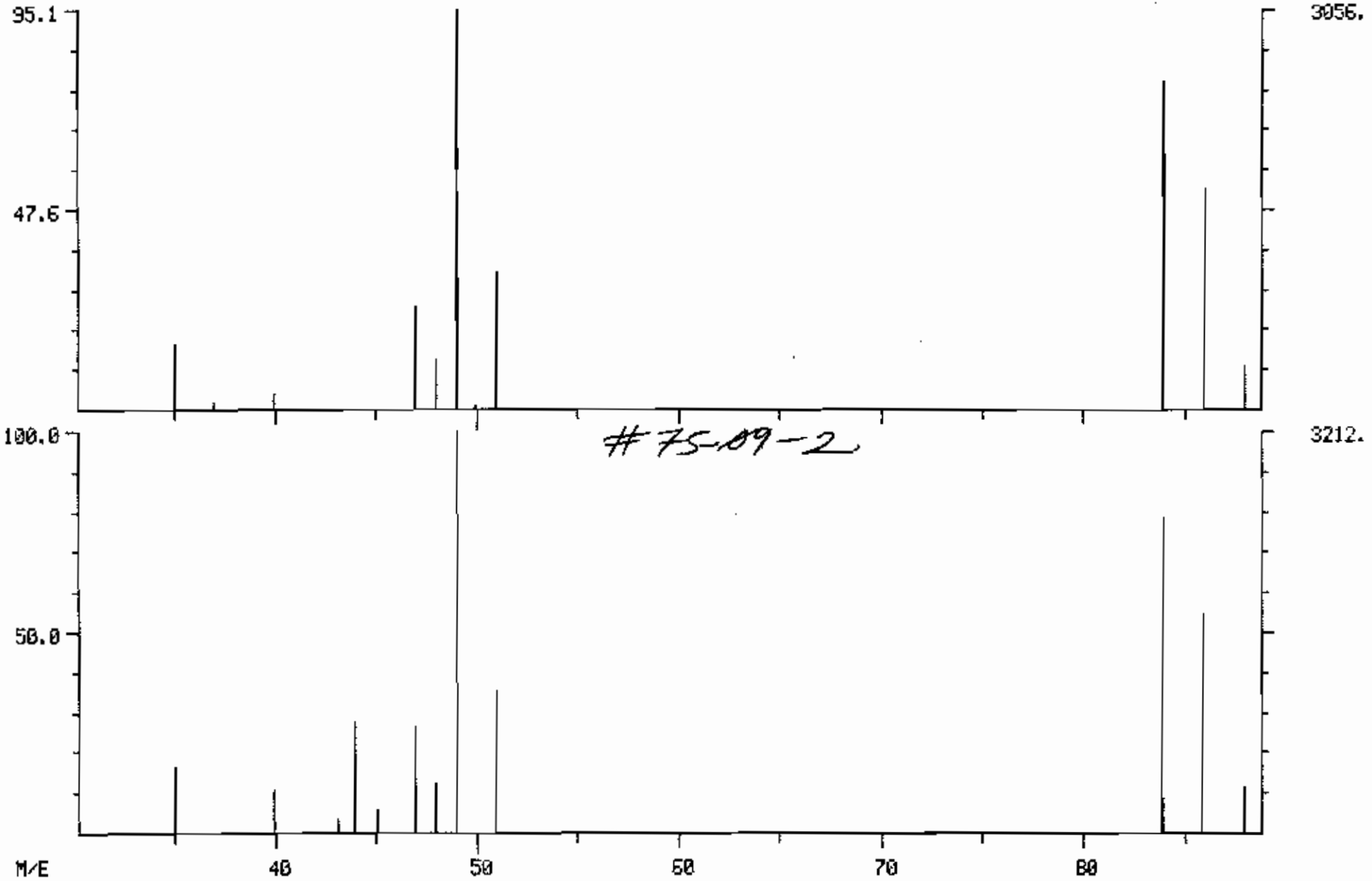


222

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 16:44:00 + 7:10
SAMPLE: 5ML SAMPLE #49817 CASE# GEN.TEST EPA#T/BLK 11450
ENHANCED (S 15B 2N)

DATA: CN049817B11 #141 BASE M/E: 49/ 49
RIC: 10479./ 12271.

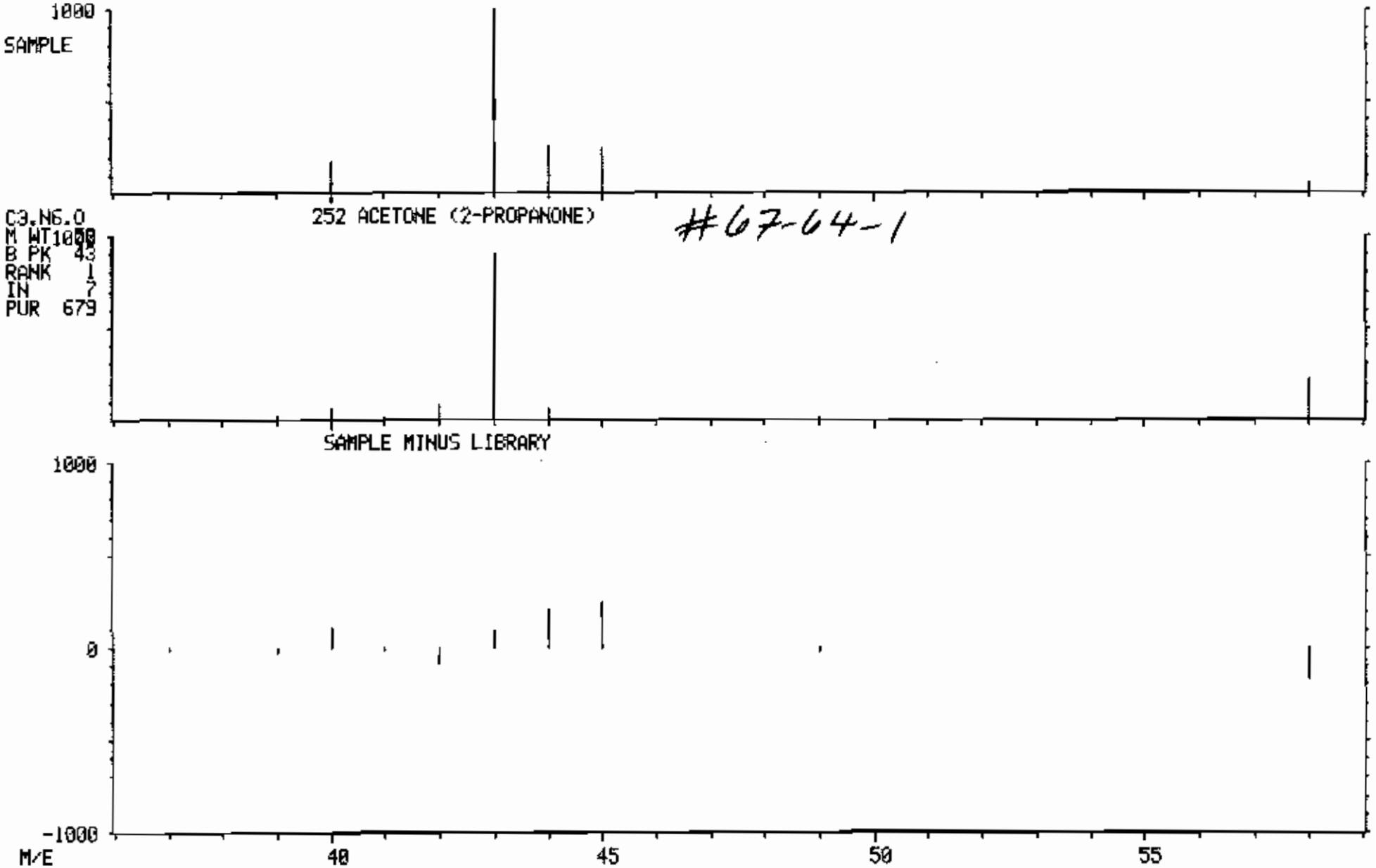


#75-09-2

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 16:44:00 + 7:44
SAMPLE: 5ML SAMPLE #49817 CASE# GEN.TEST EPA#T/BLK 11450
ENHANCED (S 15B 2N 0T)

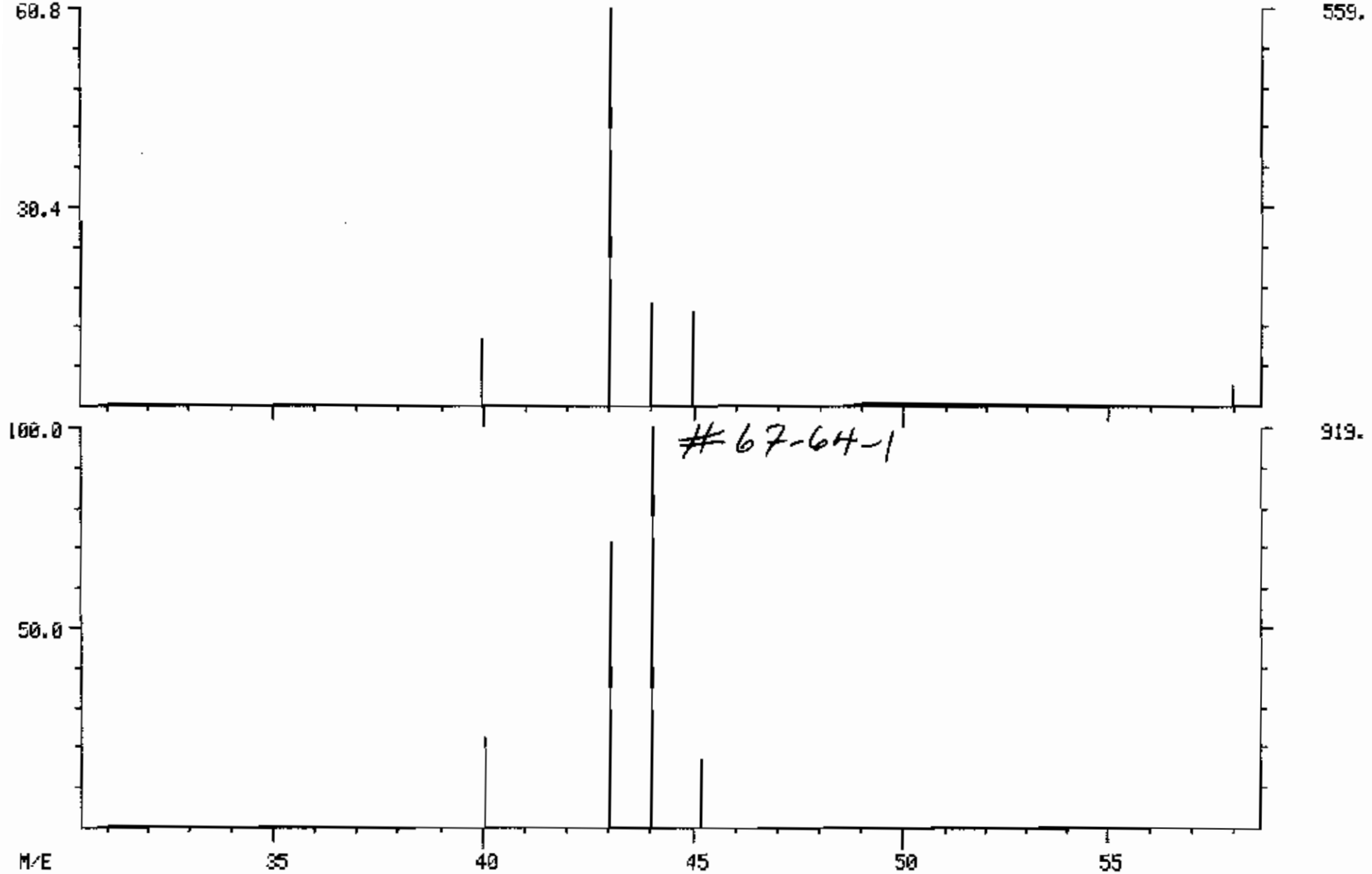
DATA: CN049817B11 # 152
BASE M/E: 43
RIC: 959.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 16:44:00 + 7:44
SAMPLE: 5ML SAMPLE #49817 CASE# GEN.TEST EPA#T/BLK 11450
ENHANCED (5 150 2N)

DATA: CN049817811 #152 BASE M/E: 43/ 44
RIC: 959./ 1933.



CASE#:GEN.TEST DUE DATE: 6/17/85

VOA J[ ] J3[ ] D[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 49817
J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: T/BLK 11450

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 50 ul
Surrogate Standard Volume Added 50 ul
BFB Filename BB85050911 Disk(112)
Blank Filename CB85050911 Disk (112)
Standard Filename C185050911 Disk (112)
Sample Filename CN049817B11 Disk (112)

ANALYST(S): Injection 219 Work-up 219

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,J5,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IN,SW,CT,CS,PC,NR IF,LA,DI,CO,RH,DW,SI,SF UP,BB,QT,VC,FO,SM

Extraneous Peak Search Results
# of Peaks Found: 0

Disposition: [✓] Complete
[ ] Reinject Neat
[ ] Dilute (:1)

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review [illegible] Date 5/13/85 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN049817B4

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

EPAWATER (11/84)

ENTERED 5/13/85

received (H) 5/13/85

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)		Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL		10.0
3	220	___	BROMOMETHANE			BDL		10.0
4	231	___	VINYL CHLORIDE			BDL		10.0
5	209	___	CHLOROETHANE			BDL		10.0
6	222	___	METHYLENE CHLORIDE	4.6		J	B	5.0
7	252	___	ACETONE (2-PROPANONE)	7.7		J	BW	10.0
8	254	___	CARBON DISULFIDE			BDL		5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL		5.0
10	214	___	1,1-DICHLOROETHANE			BDL		5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL		5.0
12	211	___	CHLOROFORM			BDL		5.0
13	215	___	1,2-DICHLORDETHANE			BDL		5.0
15	253	___	2-BUTANONE			BDL		10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL		5.0
17	206	___	CARBON TETRACHLORIDE			BOL		5.0
18	257	___	VINYL ACETATE			BOL		10.0
19	212	___	BROMODICHLOROMETHANE			BDL		5.0
20	217	___	1,2-DICHLOROPROPANE			BDL		5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL		5.0
22	229	___	TRICHLOROETHYLENE			BDL		5.0
23	208	___	CHLORODIBROMOMETHANE			BDL		5.0
24	228	___	1,1,2-TRICHLORDETHANE			BDL		5.0
25	203	___	BENZENE			BDL		5.0
26	218	___	CIS-1,3-DICHLOROPROPENE			BDL		5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL		10.0
28	205	___	BROMOFORM			BDL		5.0
30	255	___	2-HEXANONE			BDL		10.0
31	256	___	4-METHYL-2-PENTANONE			BDL		10.0
32	224	___	TETRACHLOROETHENE			BDL		5.0
33	223	___	1,1,2,2-TETRACHLDROETHANE			BDL		5.0
34	225	___	TOLUENE			BDL		5.0
35	207	___	CHLOROBENZENE			BOL		5.0
36	219	___	ETHYLBENZENE			BDL		5.0
37	251	___	STYRENE			BDL		5.0
38	239	___	M-XYLENE			BDL		5.0
39	240/___		241 O- & P-XYLENE			BDL		5.0

Volatile - Medium or Low Level Liquid

CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40	D4-1,2-DICHLOROETHANE	49.0	50.0	98.0	77-120	X	
41	BROMOFLUOROBENZENE	51.1	50.0	102.0	85-121	X	
42	DB-TOLUENE	54.4	50.0	109.0	86-119	X	

* Advisory surrogate only

++ % recovery = Quant report value / Quant report amount spiked X 100 %

	P	F
Internal Standard (#1) Bromochloromethane > 10000 Counts	/	

Correction Factor Calculation:

$$\frac{5000 \text{ UL}}{\text{Volume of Sample Purged (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.

Surrogate spike conversion factor = 1.

III. SAMPLE DATA PACKAGE

CASE NO. Denied May 1985 Water

SAMPLE NO. T/BK 11452 = COMPUCHEM NO. 49816

A. Sample data in increasing SMO Number order:

1. HSL Results — Organic Analysis Data Sheet (Form I)
2. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
3. Raw Data — in order: VOA, BNA, Pesticide

1. **HSL Results — Organic Analysis Data Sheets (Form I)**

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 703/557-2490

Sample Number
11452-T/BLK

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: CN049B16B11
Sample matrix: liquid
Data Release
Authorized By: _____

Case: GENERAL TEST
QC Report No: _____
Contract No: 141601-PLATINUM
Date Sample
Received: 05-03-85

Volatile Compounds
Concentration: low
Date extracted/prepared: (NO VOA SCREEN REQ.)
Date analyzed: 05-09-85
Conc/Dil Factor: 1.00 pH: N\A
Percent moisture: N/A
Percent moisture (decanted):

CAS Number		ug/l		CAS Number		ug/l	
74-87-3	Chloromethane	10.	U	78-87-5	1,2-Dichloropropane	5.0	U
74-83-9	Bromomethane	10.	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-01-4	Vinyl Chloride	10.	U	79-01-6	Trichloroethene	5.0	U
75-00-3	Chloroethane	10.	U	124-48-1	Dibromochloromethane	5.0	U
75-09-2	Methylene Chloride	4.2	JB	79-00-5	1,1,2-Trichloroethane	5.0	U
67-64-1	Acetone	6.5	J	71-43-2	Benzene	5.0	U
75-15-0	Carbon Disulfide	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	110-75-8	2-Chloroethyl Vinyl Ether	10.	U
75-35-3	1,1-Dichloroethane	5.0	U	75-25-2	Bromoform	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U	591-78-6	2-Hexanone	10.	U
67-66-3	Chloroform	5.0	U	108-10-1	4-Methyl-2-pentanone	10.	U
107-06-2	1,2-Dichloroethane	5.0	U	127-18-4	Tetrachloroethene	5.0	U
78-93-3	2-Butanone	10.	U	108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U	100-41-4	Ethyl Benzene	5.0	U
108-05-4	Vinyl Acetate	10.	U	100-42-5	Styrene	5.0	U
75-27-4	Bromodichloromethane	5.0	U		Total Xylenes	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U				

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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 indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other 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 data summary report.

2. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818 Alexandria Virginia 22313 703/557-2490

Sample Number
T/A.K.11452

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOA COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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25.					
26.					
27.					
28.					
29.					
30.					

3. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

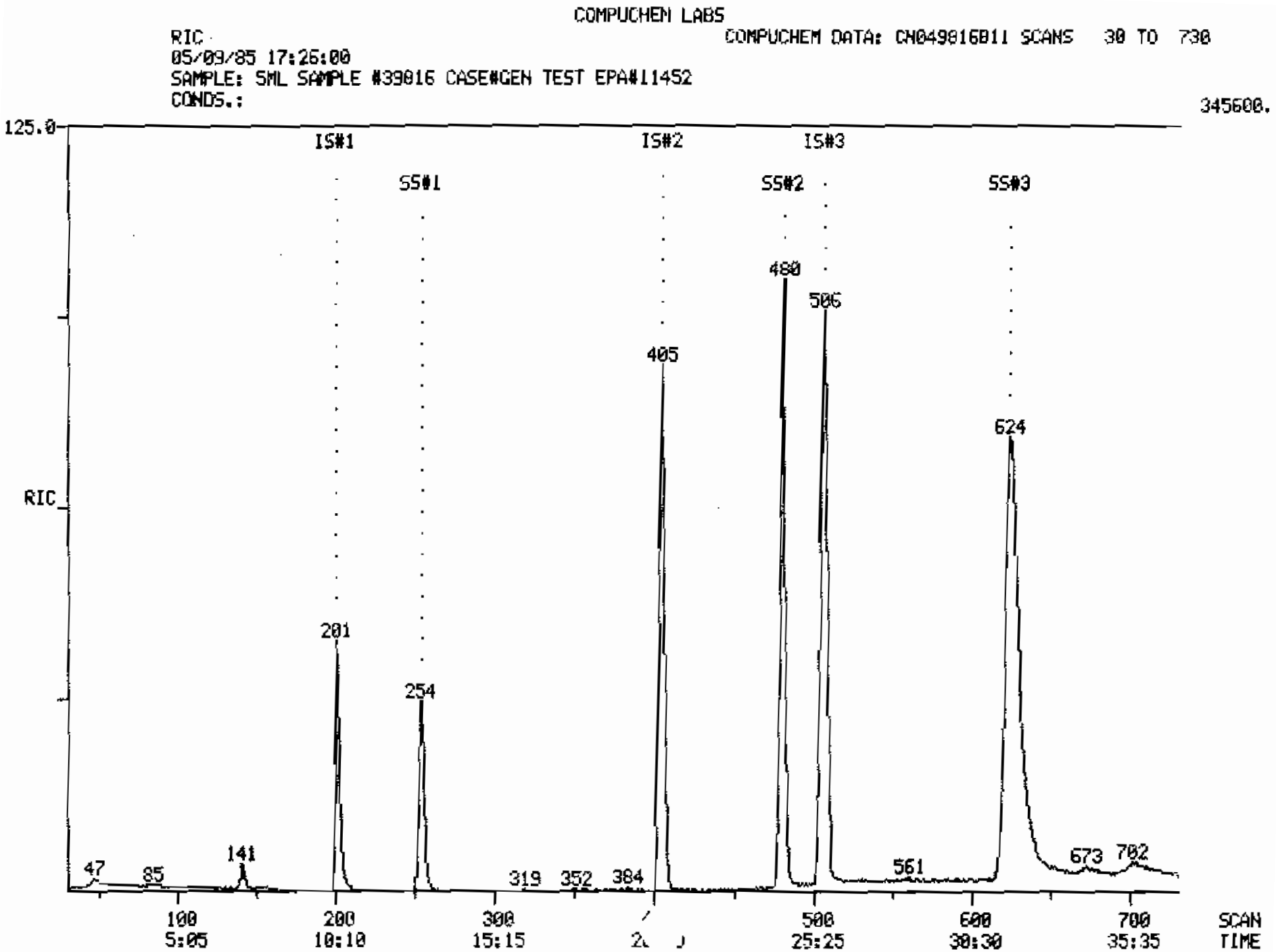
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CN049016B11 SCANS 30 TO 730
05/09/85 17:26:00
SAMPLE: SML SAMPLE #39016 CASE#GEN TEST EPA#11452
CONDS.:
345600.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
480
506
405
624
201
254
RIC
47
85
141
319
352
384
561
673
702
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

PROCEDURE: RK DIAGNOSTIC REPORT 5/09/85 18:44:16
DATA FILE: CN049816B11
REFERENCE: E237
METHOD: E237 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: E237S

STANDARDS PROC	STANDARDS USED	STANDARDS POSS	STANDARDS RMS	PLUS UNKNOWNS PROC	PLUS UNKNOWNS USED	PLUS UNKNOWNS POSS	PLUS UNKNOWNS RMS	LIST NAMES STANDARD/UNKNOWN
3	3	1	1	42	7	1	49	E237S/E237U

42 COMPOUNDS PROCESSED, 7 FOUND

COMPOUND NO	LIB	ENTRY	SEARCH REF	SEARCH PRED	SAT SEL	SAT DELTA	SAT PEAKS	CHRO FIT	CHRO PEAKS	CHRO M/E	CHRO TOP	CHRO DELTA	CHRO PEAKS
1	E1	1	-198	201	201	.	1	980	.	128	201	.	1
2	E2	1	-404	405	405	.	1	994	.	114	405	.	1
3	E3	1	-506	506	506	.	1	998	.	117	506	.	1
4	E1	2	-41	45	.	.	.	.	.	50	.	.	.
5	E1	3	-60	64	.	.	.	.	.	94	.	.	.
6	E1	4	-76	80	.	.	.	.	.	62	.	.	.
7	E1	5	-95	99	.	.	.	.	.	64	.	.	.
8	E1	6	-137	140	141	1	1	934	.	84	141	.	1
9	E1	7	-148	151	.	.	.	.	.	43	153	.	1
10	E1	8	-167	170	.	.	.	.	.	76	.	.	.
11	E1	9	-190	193	.	.	.	.	.	96	.	.	.
12	E1	10	-215	218	.	.	.	.	.	63	.	.	.
13	E1	11	-230	233	.	.	.	.	.	96	.	.	.
14	E1	12	-240	243	.	.	.	.	.	83	.	.	.
15	E1	13	-255	258	.	.	.	.	.	62	.	.	.
16	E2	2	-253	256	.	.	.	.	.	72	.	.	.
17	E2	3	-281	283	.	.	.	.	.	97	.	.	.
18	E2	4	-289	291	.	.	.	.	.	117	.	.	.
19	E2	5	-291	293	.	.	.	.	.	43	.	.	.
20	E2	6	-298	300	.	.	.	.	.	83	.	.	.
21	E2	7	-326	328	.	.	.	.	.	63	.	.	.
22	E2	8	-331	333	.	.	.	.	.	75	.	.	.
23	E2	9	-342	344	.	.	.	.	.	130	.	.	.
24	E2	10	-354	356	.	.	.	.	.	129	.	.	.
25	E2	11	-356	358	.	.	.	.	.	97	.	.	.
26	E2	12	-353	355	.	.	.	.	.	78	355	.	1
27	E2	13	-357	359	.	.	.	.	.	75	.	.	.
28	E2	14	-378	380	.	.	.	.	.	63	.	.	.
29	E2	15	-408	409	.	.	.	.	.	173	.	.	.
30	E3	2	-419	420	.	.	.	.	.	43	.	.	.
31	E3	3	-450	451	.	.	.	.	.	43	454	.	2
32	E3	4	-455	456	.	.	.	.	.	164	.	.	.
33	E3	5	-454	455	.	.	.	.	.	83	.	.	.
34	E3	6	-483	484	.	.	.	.	.	92	484	.	1
35	E3	7	-508	508	.	.	.	.	.	112	.	.	.
36	E3	8	-558	558	.	.	.	.	.	106	558	.	1
37	E3	9	-665	664	.	.	.	.	.	104	.	.	.
38	E3	10	-674	673	.	.	.	.	.	106	674	.	2
39	E3	11	-701	700	.	.	.	.	.	106	701	.	1
40	E4	2	-253	256	255	-1	1	975	.	65	255	.	1
41	E4	3	-624	624	624	.	1	997	.	95	624	.	1
42	E4	4	-479	480	480	.	1	998	.	98	480	.	1

Internal Standard Area Monitor

Method: E237 Filename: CN049816B11 Date: 05/09/85
Shift Std: CT850509A11 Time: 17:26

	Compound	Peak Area Sample	Peak Area Shift Std	%Diff	P/F
*	BROMOCHLOROMETHANE (IS)	63300.	59680.	6.	Pass
*	1,4 DIFLUOROBENZENE (INTERNAL STANDARD)	331875.	309280.	7.	Pass
*	D5 CHLOROBENZENE(INTERNAL STANDARD)	342247.	322431.	6.	Pass

QUANTITATION REPORT FILE: CN049816B11

DATA: CN049816B11.TI
05/09/85 17:26:00
SAMPLE: 5ML SAMPLE #39816 CASE#GEN TEST EPA#11452
DS.:
SUBMITTED BY: 11 ANALYST: 719

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

NO	NAME
1	# BROMOCHLOROMETHANE (IS)
2	221 CHLOROMETHANE
3	220 BROMOMETHANE
4	231 VINYL CHLORIDE
5	209 CHLOROETHANE
6	222 METHYLENE CHLORIDE
7	252 ACETONE (2-PROPANONE)
8	254 CARBON DISULFIDE
9	216 1,1-DICHLOROETHYLENE
10	214 1,1-DICHLOROETHANE
11	226 TRANS-1,2-DICHLOROETHYLENE
12	211 CHLOROFORM
13	215 1,2-DICHLOROETHANE
14	# 1,4 DIFLUOROBENIENE (INTERNAL STANDARD)
15	253 2-BUTANONE
16	227 1,1,1-TRICHLOROETHANE
17	206 CARBON TETRACHLORIDE
18	257 VINYL ACETATE
?	212 BROMODICHLOROMETHANE
,	217 1,2-DICHLOROPROPANE
21	250 TRANS-1,3-DICHLOROPROPENE
22	229 TRICHLOROETHYLENE
23	208 CHLORODIBROMOMETHANE
24	228 1,1,2-TRICHLOROETHANE
25	203 BENZENE
26	218 CIS-1,3-DICHLOROPROPENE
27	210 2-CHLOROETHYL VINYL ETHER
28	205 BROMOFORM
29	# DS CHLOROBENZENE(INTERNAL STANDARD)
30	255 2-HEXANONE
31	256 4-METHYL-2-PENTANONE
32	224 TETRACHLOROETHENE
33	223 1,1,2,2-TETRACHLOROETHANE
34	225 TOLUENE
35	207 CHLOROBENIENE
36	219 ETHYLBENZENE
37	251 STYRENE
38	239 M-XYLENE
39	240/241 O- & P-XYLENE
40	# D4-1,2-DICHLOROETHANE
41	# BROMOFLUOROBENZENE
42	# DB-TOLUENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	201	10:13	1	1.000	A BB	63309.	50.000 UG/L	16.30
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	141	7:10	1	0.701	A BB	9129.	4.292	UG/L	1.40
7	43	153	7:47	1	0.761	A BV	2302.	6.566	UG/L	2.14
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	405	20:35	14	1.000	A BV	331879.	50.000	UG/L	16.30
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	355	18:03	14	0.877	A BB	887.	0.162	UG/L	0.05
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	506	25:43	29	1.000	A BB	342248.	50.000	UG/L	16.30
30	43	NOT FOUND								
1	43	454	23:05	29	0.897	A*BV	666.	0.908	UG/L	0.30
2	164	NOT FOUND								
33	83	NOT FOUND								
34	92	484	24:36	29	0.957	A BB	1381.	0.318	UG/L	0.10
35	112	NOT FOUND								
36	106	558	28:22	29	1.103	A BB	685.	0.189	UG/L	0.06
37	104	NOT FOUND								
38	106	674	34:16	29	1.332	A*BV	3945.	0.791	UG/L	0.26
39	106	701	35:38	29	1.385	A VV	2436.	0.564	UG/L	0.18
40	65	255	12:58	1	1.269	A BV	116597.	45.044	UG/L	14.68
41	95	624	31:43	29	1.233	A BB	317553.	47.956	UG/L	15.63
42	98	480	24:24	1	2.388	A BV	369412.	50.013	UG/L	16.30

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	10:04	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	2:05		10.000			50.00		1.788	
3	3:03		10.000			50.00		2.014	
4	3:52		10.000			50.00		1.752	
5	4:50		10.000			50.00		0.978	
6	6:58	1.03	5.000	0.14	4.29	50.00	0.144	1.680	0.09
7	7:31	1.03	10.000	0.08	6.57	50.00	0.036	0.277	0.13
8	8:29		5.000			50.00		2.546	
9	9:39		5.000			50.00		1.075	
10	10:56		5.000			50.00		1.983	
11	11:41		5.000			50.00		1.153	
12	12:12		5.000			50.00		2.753	
3	12:58		5.000			50.00		1.914	
14	20:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

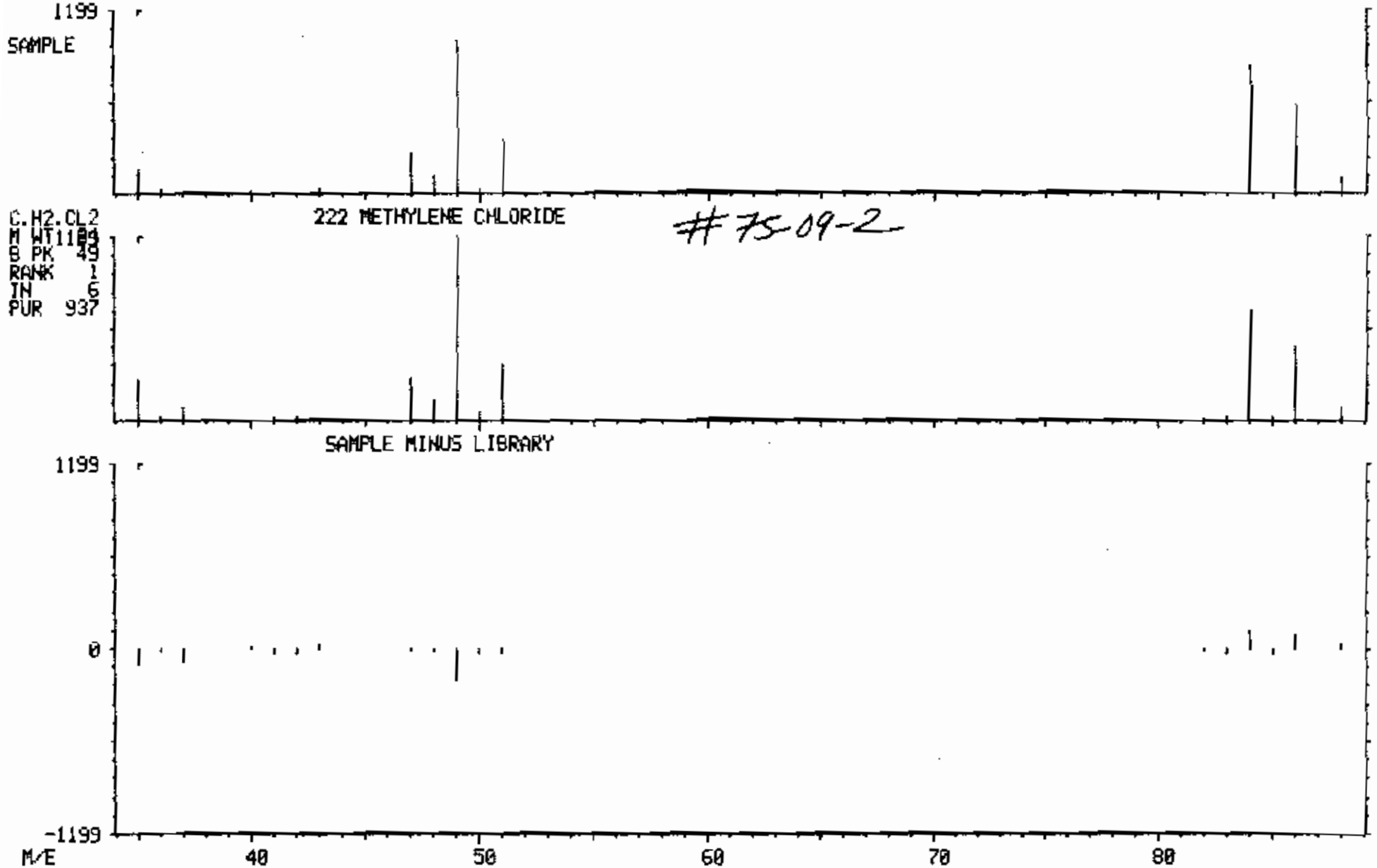
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:52		10.000			50.00		0.019	
16	14:17		5.000			50.00		0.416	
17	14:41		5.000			50.00		0.421	
	14:48		10.000			50.00		0.302	
19	15:09		5.000			50.00		0.484	
20	16:34		5.000			50.00		0.280	
21	16:50		5.000			50.00		0.181	
22	17:23		5.000			50.00		0.432	
23	18:00		5.000			50.00		0.478	
24	18:06		5.000			50.00		0.296	
25	17:57	1.01	5.000	0.18	0.16	50.00	0.003	0.827	0.00
26	18:09		5.000			50.00		0.622	
27	19:13		10.000			50.00		0.122	
28	20:44		5.000			50.00		0.305	
29	25:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:18		10.000			50.00		0.174	
31	22:52	1.01	10.000	0.09	0.91	50.00	0.002	0.107	0.02
32	23:08		5.000			50.00		0.437	
33	23:05		5.000			50.00		0.403	
34	24:33	1.00	5.000	0.19	0.32	50.00	0.004	0.635	0.01
35	25:49		5.000			50.00		0.972	
36	28:22	1.00	5.000	0.22	0.19	50.00	0.002	0.530	0.00
37	33:48		5.000			50.00		1.075	
38	34:16	1.00	5.000	0.27	0.79	50.00	0.012	0.729	0.02
39	35:38	1.00	5.000	0.28	0.56	100.00	8.004	0.631	0.01
40	12:52	1.01	10.000	0.13	45.04	50.00	1.842	2.044	0.90
41	31:43	1.00	10.000	0.12	47.96	50.00	0.928	0.967	0.96
42	24:21	1.00	10.000	0.24	50.01	50.00	5.835	5.834	1.00

COMPUCHEM LABS

LIBRARY SEARCH
05/09/85 17:26:00 + 7:10
SAMPLE: 5ML SAMPLE #39816 CASE#GEN TEST EPA#11452
ENHANCED (S 15B 2N 0T)

DATA: CN049816B11 # 141

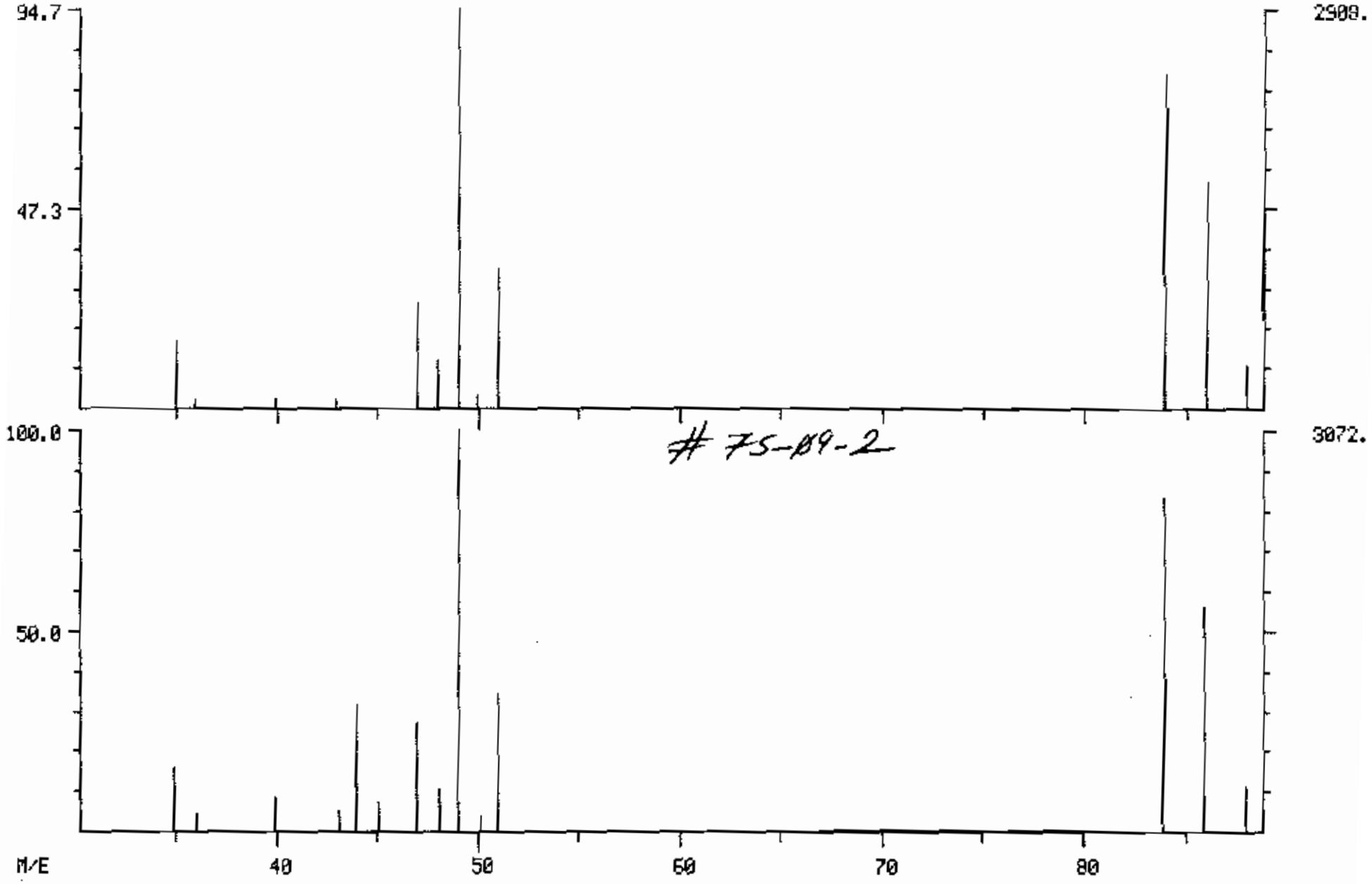
BASE M/E: 49
RIC: 10223.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 17:26:00 + 7:10
SAMPLE: 5ML SAMPLE #39816 CASE#GEN TEST EPA#11452
ENHANCED (S 15B 2N)

DATA: CN049816B11 #141 BASE M/E: 49/ 49
RIC: 10207./ 12255.



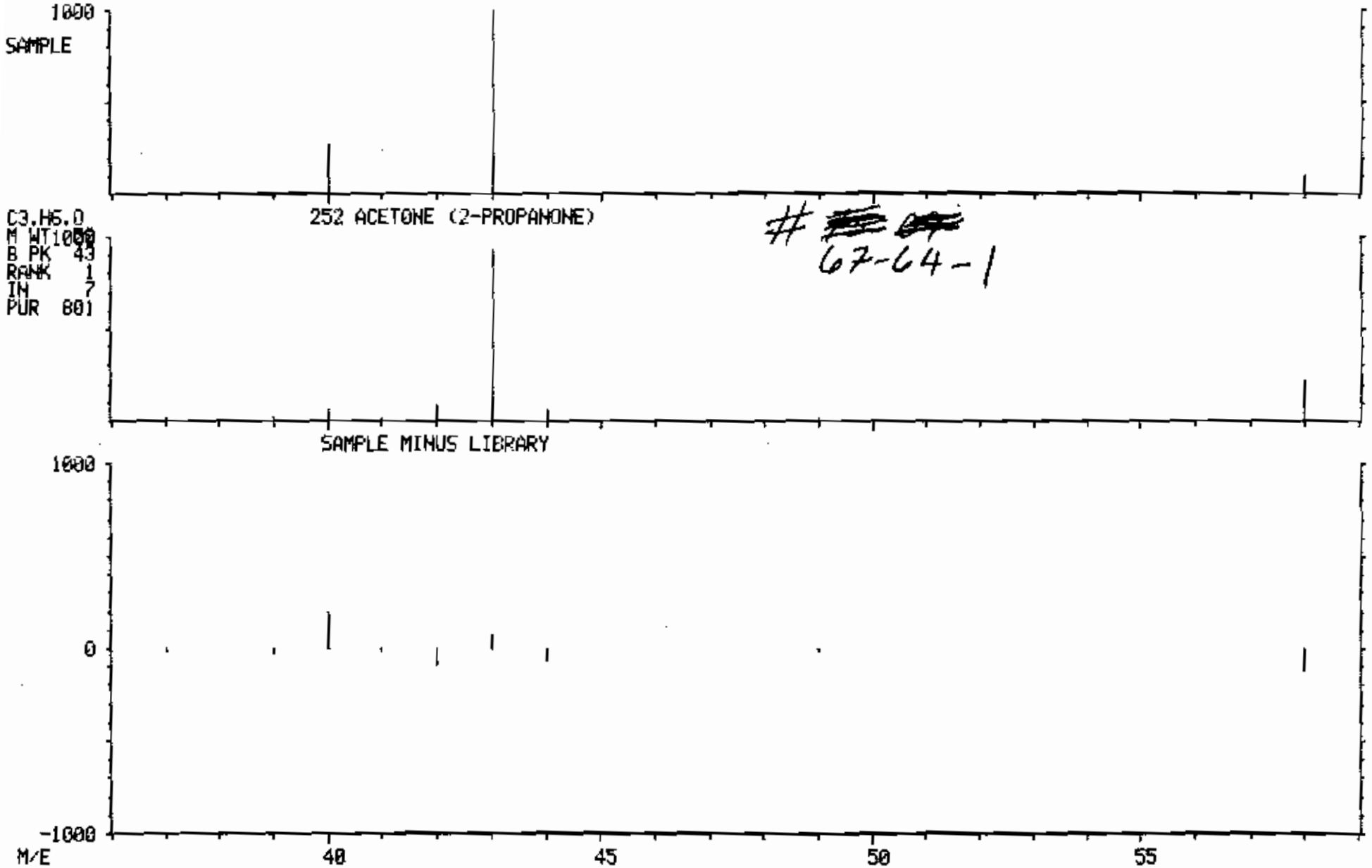
75-09-2

CONPUCHEM LABS

LIBRARY SEARCH
05/09/85 17:26:00 + 7:47
SAMPLE: 5ML SAMPLE #39816 CASE#GEN TEST EPA#11452
ENHANCED (S 15B 2N 0T)

DATA: CN049816B11 # 153

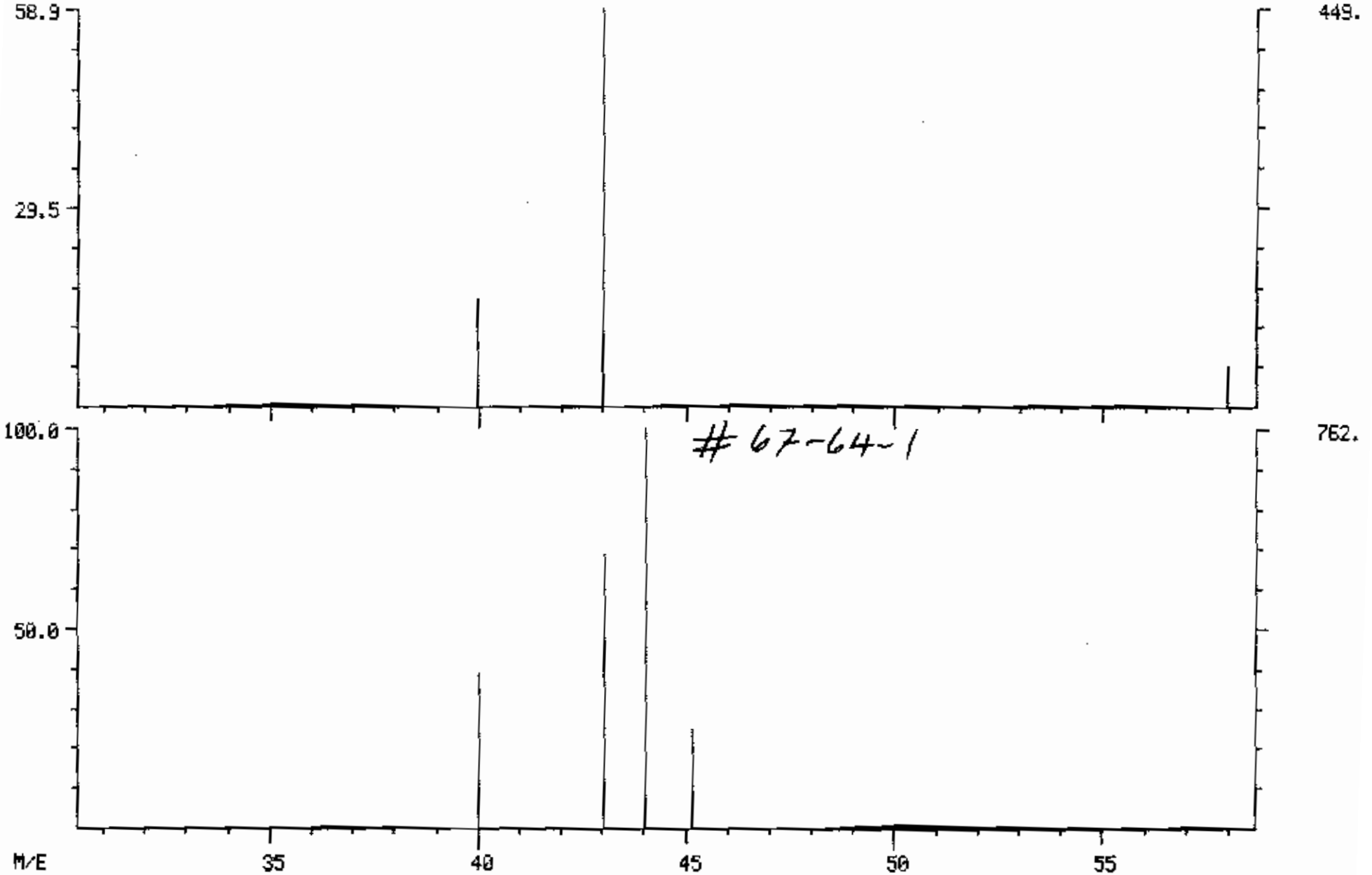
BASE M/E: 43
RIC: 613.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/09/85 17:26:00 + 7:47
SAMPLE: 5ML SAMPLE #39816 CASE#GEN TEST EPA#11452
ENHANCED (S 15B 2N)

DATA: CN049816B11 #153 BASE M/E: 43/ 44
RIC: 613./ 1769.



CASE#:GEN.TEST DUE DATE: 6/17/85

VOA J[ ] J3[ ] D[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 49816 J2[ ] J4[ ] D2[ ] (:1)

LOW LEVEL LIQUID
Deliverable Code 069

Sample Prep Code---000
Instrument Code---256
Compound List---145
Surrogate Std---394
Internal Std---036

SAS: EPA#: T/BLK 11452

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [ ] Dilution_____ul/5000ul Sparged
Internal Standard Volume Added 5.0 ul
Surrogate Standard Volume Added 5.0 ul
BFB Filename BFB50509C11 Disk(12)
Blank Filename CBB50509A11 Disk ( )
Standard Filename CLB50509A11 Disk ( )
Sample Filename CN049816B11 Disk (12)

ANALYST(S): Injection 719 Work-up 719

GC/MS REVIEW

CONDITION CODE: 012

Entry Codes OK,JS,SM,SL,SH,JA,DA

Non-Entry Codes IM,IL,IN,SW,CT,OS,PC,HR IF,LA,DI,CO,RN,DW,SI,SF UP,BB,OT,VC,FO,SM

Disposition: [✓] Complete

[ ] Reinject Neat

[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required_____

COMMENTS:

GC/MS Review [illegible] Date 5/13/85 Auditor_____ Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN049816B11

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

5/13/85

EPAWATER (11/84)

received 5/13/85

Volatile - Medium or Low Level Liquid

	CC ID#	Lab Code	Compound Name	Quant Report Value	X	Result(*) (ug/L)	Detection Limit (ug/L)
2	221	___	CHLOROMETHANE			BDL	10.0
3	220	___	BROMOMETHANE			BDL	10.0
4	231	___	VINYL CHLORIDE			BDL	10.0
5	209	___	CHLOROETHANE			BDL	10.0
6	222	___	METHYLENE CHLORIDE	4.2		J	5.0
7	252	___	ACETONE (2-PROPANONE)	6.5		J	10.0
8	254	___	CARBON DISULFIDE			BDL	5.0
9	216	___	1,1-DICHLOROETHYLENE			BDL	5.0
10	214	___	1,1-DICHLOROETHANE			BDL	5.0
11	226	___	TRANS-1,2-DICHLOROETHYLENE			BDL	5.0
12	211	___	CHLOROFORM			BDL	5.0
13	215	___	1,2-DICHLOROETHANE			BDL	5.0
15	253	___	2-BUTANONE			BDL	10.0
16	227	___	1,1,1-TRICHLOROETHANE			BDL	5.0
17	206	___	CARBON TETRACHLORIDE			BDL	5.0
18	257	___	VINYL ACETATE			BDL	10.0
19	212	___	BROMODICHLOROMETHANE			BDL	5.0
20	217	___	1,2-DICHLOROPROPANE			BDL	5.0
21	250	___	TRANS-1,3-DICHLOROPROPENE			BDL	5.0
22	229	___	TRICHLOROETHYLENE			BDL	5.0
23	208	___	CHLORODIBROMOMETHANE			BDL	5.0
24	228	___	1,1,2-TRICHLOROETHANE			BDL	5.0
25	203	___	BENZENE			BDL	5.0
27	218	___	CIS-1,3-DICHLOROPROPENE			BDL	5.0
	210	___	2-CHLOROETHYL VINYL ETHER			BDL	10.0
28	205	___	BROMOFORM			BDL	5.0
30	255	___	2-HEXANONE			BDL	10.0
31	256	___	4-METHYL-2-PENTANONE			BDL	10.0
32	224	___	TETRACHLOROETHENE			BDL	5.0
33	223	___	1,1,2,2-TETRACHLOROETHANE			BDL	5.0
34	225	___	TOLUENE			BDL	5.0
35	207	___	CHLOROBENZENE			BDL	5.0
36	219	___	ETHYLBENZENE			BDL	5.0
37	251	___	STYRENE			BDL	5.0
38	239	___	M-XYLENE			BDL	5.0
39	240/___		241 O- & P-XYLENE			BDL	5.0

Volatile - Medium or Low Level Liquid

No	CC ID#	Surrogate Compound	Quant Report Value	Quant Report Amount Spiked	% ++ Recovery	Control Range	P	F
40		D4-1,2-DICHLOROETHANE	45.0	50.0	90.0	77-120	X	
41		BROMOFLUOROBENIENE	48.0	50.0	96.0	85-121	X	
42		DB-TOLUENE	50.0	50.0	100.0	86-119	X	

* Advisory surrogate only
++ % recovery = Quant report value / Quant report amount spiked X 100 %

F F

Internal Standard (#1) Bromochloromethane > 10000 Counts 1 ___

Correction Factor Calculation:

$$\frac{5000 \text{ uL}}{\text{Volume of Sample Purged (uL)}} =$$

$$\frac{5000 \text{ uL}}{5000. \text{ (uL)}} = 1.000$$

Quant Report amount spiked conversion factor:

The surrogates are added to the sample prior to sparging.
Surrogate spike conversion factor = 1.