UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

REPORT ON REMEDIAL INVESTIGATION
ENARC-O MACHINE PRODUCTS
LIMA, NEW YORK
NYSDEC REGISTRY NO. 8-26-011

Volume VI of VI

by

Haley & Aldrich of New York
Rochester, New York

for

Kaddis Manufacturing Corporation
Rochester, New York

File No. 70372-047
January 1996

APPENDIX J
(con't.)

Groundwater Analytical Data Deliverables Packages

General Testing Corporation

A FULL SERVICE ENVIRONMENTAL LABORATORY

September 13, 1995

Mr. Robert Mahoney
H & A of New York
189 North Water Street
Rochester, NY 14604

RE: ENARC-O SITE (70372-044)
Submission #:9508000316

Dear Mr. Mahoney:

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Karen Wonder
Client Service Representative

Enc.

710 Exchange Street • Rochester, NY 14608 • Tele:(716)454-3760 • Fax:(716)454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele:(201)488-5242 • Fax:(201)488-6386
435 Lawrence Bell Drive • Amherst, NY 14421 • Tele:(716)634-0454 • Fax:(716)634-9019

ORGANIC QUALIFIERS - 1991

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The 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 sample quantitation limit but greater than zero.

N - Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC Columns. The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

General Testing Corporation

SUBMISSION #: 9508000316

SAMPLE DATA PACKAGE

SECTION A: SDG Narrative

SECTION B: Chains of Custody, Internal Chains, Summary Forms

SECTION C: Volatile Organic Data

General Testing Corporation

SUBMISSION #: 9508000316

SECTION A

SDG NARRATIVE

CASE NARRATIVE

COMPANY: H & A New York
ENARC-O Site
SUBMISSION #: 950800316
SDG#: DUP1

H & A water samples were collected on 8/22/95 and 8/23/95 and received on 8/23/95. All samples were in good condition. See GTC CLP Batching sheets for a cross reference between Client ID and GTC Job # and analyses requested.

VOLATILE ORGANIC ANALYSIS

Eighteen water samples, an Equipment Blank and a Trip Blank were analyzed for the Target Compound List (TCL) of volitile organics by Method 91-1 from the NYSDEC 1991 ASP.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate compounds were within QC limits for recovery.

The Matrix Spike/Matrix Spike Duplicate recoveries performed on sample SupplyMS/MSD (labeled SUP) and the Blank Spike recoveries were all acceptable except for Trichloroethene in SUPMS and SUPMSD. The % RPD from the precision analysis was outside of QC limits for Trichloroethene and Benzene.

Samples MW-3 and MW-5 were reanalyzed at 1/5 dilutions to bring analytes within the instruments's linear range.

All Laboratory Blanks were free from contamination, except for a small amount of methylene chloride found in VBLK2 (1 ug/L).

The trip blank was free of contamination. A small amount of styrene (5 ug/L) was found in the equipment blank.

No other analytical or QC problems were encountered during the analysis of this SDG.

X

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry
Laboratory Director

9/8/05
Date

BATCH COMPLETE: _____Y_____ CLP BATCHING SDG #: DUP1
DISKETTE REQUESTED: Y_____ N_X__ SUBMISSION #:__9508000316_____
CLIENT REP:____KAREN WONDER_ DATE: 08/23/95_____ PROJECT: ENARC-O SITE (70372-044)
DATE DUE: 09/13/95_____ DATE REVISED: 08/24/95_____ PROTOCOL: CLP_____

GTC JOB #	CLIENT ID/ EPA #	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	(SOLIDS ONLY)PH	% SOLIDS
35336	MW1	W	91-1	08/22/95	08/23/95		
35337	MW2	W	91-1	08/22/95	08/23/95		
35338	MW3	W	91-1	08/23/95	08/23/95		
35339	MW4	W	91-1	08/23/95	08/23/95		
35340	MW5	W	91-1	08/23/95	08/23/95		
35341	MW6	W	91-1	08/23/95	08/23/95		
35342	MW201D	W	91-1	08/23/95	08/23/95		
35343	MW202	W	91-1	08/23/95	08/23/95		
35344	1121	W	91-1	08/22/95	08/23/95		
35345	1146	W	91-1	08/22/95	08/23/95		
35346	7852	W	91-1	08/22/95	08/23/95		
35347	7873	W	91-1	08/22/95	08/23/95		
35348	7883SUMP	W	91-1	08/22/95	08/23/95		
35349	7880	W	91-1	08/23/95	08/23/95		
35350	1167	W	91-1	08/22/95	08/23/95		
35351	SUPMSMSD	W	91-1	08/23/95	08/23/95		
35352	DUP1	W	91-1	08/22/95	08/23/95		
35353	DUP2	W	91-1	08/23/95	08/23/95		
35354	SUPPLY	W	91-1	08/23/95	08/23/95		
35355	EQUIPBLANK	W	91-1	08/22/95	08/23/95		
35886	TRIPBLANK	W	91-1	--	08/23/95		

General Testing Corporation

SUBMISSION #: 9508000316

SECTION B

CHAIN OF CUSTODY

INTERNAL CHAINS

SUMMARY FORMS

9508-316

H & A OF NEW YORK
189 North Water Street
Rochester, New York 14604
(716) 232-7386

ANALYSIS REQUEST FORM AND CHAIN-OF-CUSTODY RECORD

Page 1 of 2 Nº 950
Delivery Date:

Project Name: Enarc-O	Laboratory: GTC	Project Manager: RJM
H & A File No. 70372-044	Address: Exchange St. Rochester 14604	Final Report Due Date:
H & A REP. MGB		Turnaround Time: STD days
WORK ORDER No.	Client Rep.: K. Wonder	

Sample Information

H & A Sample ID.	Laboratory ID.	Sample Date	Sample Time	Sample Depth	Sample Matrix
1. MW-1	35336	8-22	1130	—	Aqueous
2. MW-2	35337	8-22	1200	—	
3. MW-3	35338	8-23	1255	—	
4. MW-4	35339	8-23	1150	—	
5. MW-5	35340	8-23	1120	—	
6. MW-6	35341	8-23	1105	—	
7. MW-201D	35342	8-23	1400	—	
8. MW-202	35343	8-23	1350	—	
9. 1121	35344	8-22	1315	—	
10. 1146	35345	8-22	1045	—	
11. 7852	35346	8-22	1430	—	
12. 7873	35347	8-22	1550	—	
13. 7883 SUMP	35348	8-22	1240	—	
14. 7880	35349	8-23	1615	—	
15. 1167	35350	8-22	1700	—	↓

Analysis Requested

91-1	TOTAL
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2
2	2

Preservative

pH < 2.0			pH > 10	pH 7.0
HNO3 (N)	HCl (C)	H_2SO_4 (S)	NaOH/ZA (Z)	4 C (T)
				X
				X
				X
				X
				X
				X
				X
				X
				X
				X
				X
				X
				X
				X

Sampler Comments/Site Observations

Sample Conditions		Broken Containers
Custody Seal:	Intact:	List Type / Sample No.
Cooler Temp.:	C	
Any Broken Containers ?		

Preservation
No. Of Samples: (N) (C) (S) (Z) (T)
(List all pH measurements outside criteria in the Comments Section by H & A No. / Cont. / pres.)

Sampled and Relinquished By: Michael Beland	Samples Received By: Mgardner
Signature: Michael B Beland	Signature: Mgardner
Company Name: H&A	Company Name: GTC
Date: 8/23/95 Time:	Date: 8/24/95 Time: 1800
Samples Relinquished By:	Samples Received By:
Signature:	Signature:
Company Name:	Company Name:
Date: Time:	Date: Time:
Samples Relinquished By:	Samples Received By:
Signature:	Signature:
Company Name:	Company Name:
Date: Time:	Date: Time:

Comments:

Dates on chains are correct.

9508-316

H & A OF NEW YORK

189 North Water Street
Rochester, New York 14604
(716) 232-7386

ANALYSIS REQUEST FORM AND CHAIN-OF-CUSTODY RECORD

Page 2 of 2 Nº 949
Delivery Date:

Project Name: Enarc-O	Laboratory: GTC	Project Manager: RJM
H & A File No. 70372-044	Address: Exchange St Rochester 14604	Final Report Due Date:
H & A REP. MGB		Turnaround Time: STD days
WORK ORDER No.	Client Rep.: K. Wonder	

Sample Information

H & A Sample ID.	Laboratory ID.	Sample Date	Sample Time	Sample Depth	Sample Matrix
1. SUPPLY MS/MSD	35351	8-23	1510	—	Aqueous
2. DUP-1	35352	8-22	—	—	
3. DUP-2	35353	8-23	—	—	
4. SUPPLY	35354	8-23	1510	—	
5. EQ. BLANK	35355	8-22	0935	—	
6. TRIP BLANK	35886	—	—	—	
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

Analysis Requested

91-1	TOTAL
	4
	2
	2
	2
	2
	2

Preservative

pH < 2.0 HNO3 (N)	pH < 2.0 HCl (C)	pH < 2.0 H_2SO_4 (S)	pH > 10 NaOH/ZA (Z)	pH 7.0 4 C (T)
				X
				X
				X
				X
				X

Sampler Comments/Site Observations

Sample Conditions	Broken Containers
Custody Seal: Intact:	List Type / Sample No.
Cooler Temp.: C	
Any Broken Containers ?	

Preservation
No. Of Samples: (N) (C) (S) (Z) (T)
(List all pH measurements outside criteria in the Comments Section by H & A No. / Cont. / pres.)

Comments:
Dates on Chains are correct

Sampled and Relinquished By: Michael Perkins	Samples Received By: J. Gardner
Signature: Michael D. Perkins	Signature:
Company Name: H&A	Company Name: GTC
Date: 8/23/95 Time:	Date: 8/23/95 Time: 1800
Samples Relinquished By:	Samples Received By:
Signature:	Signature:
Company Name:	Company Name:
Date: Time:	Date: Time:
Samples Relinquished By:	Samples Received By:
Signature:	Signature:
Company Name:	Company Name:
Date: Time:	Date: Time:

STARLIMS# 9508-316

DG # _____ GTC # 35336

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml	[redacted]	[redacted]	8/24	15:30

60000

STARLIMS # 9508-316

; # _____ GTC # 35337

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		IP	8/24	15:30

01018

STARLIMS # 9508-316

_____ GTC # 35339

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		IP	8/24	15:30

0001

STARLIMS # 9508-316

; # _____ GTC # 35339

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml	[signature]	IP	8/24	15:30

21000012

STARLIMS # 9508-316

_____ GTC # 35340

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		R	8/24	15:30

STARLIMS # 9508-316

_____ GTC # 35341

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml	[signature]	R	8/24	15:30

0001

STARLIMS # 9508-316

_____ GTC # 35342

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80 ml		(illegible)	8/24	15:30

1000

STARLIMS # 9508-316

_____ GTC # 35343

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		[illegible]	8/24	15:30

00016

STARLIMS # 9508-316

_____ GTC # 35344

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80 ml	[illegible]	IP	8/24	15:30

00017

STARLIMS # 9508-316

_____ GTC # 35345

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml			8/24	15:30

STARLIMS # 9508-316

Document I.D. #

GTC # 35346

Date/Time Received 8/23/95 @ 18:00

arameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml	[illegible]	[illegible]	8/24	15:30

0C019

STARLIMS # 9508-316

_____ GTC # 35347

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml			8/24	15:30

00020

STARLIMS # 9508-316

_____ GTC # 35348

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		JP	8/24	15:30

STARLIMS # 9508-316

GTC # 35349

Document I.D. #

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml			8/24	15:30

0023

STARLIMS # 9508-316

_____ GTC # 35350

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml	[signature]	[signature]	8/24	15:30

STARLIMS# 9508-316

DG # _____ GTC # 35351 Document I.D. # _____

Date/Time Received 8/23/15 @ 18:00

QC

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		160ml	[redacted]	IP	8/24	15:30

00024

STARLIMS # 9508-316

_____ GTC # 35352

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		R	8/24	15:30

STARLIMS # 9508-316

_____ GTC # 35353

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml			8/24	15:30

92008

STARLIMS # 9508-316

_____ GTC # 35354

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		IP	8/24	15:30

00027

STARLIMS # 9508-316

: # _____ GTC # 35355

Document I.D. # _____

Date/Time Received 8/23/95 @ 18:00

arameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		R	8/24	15:30

00028

STARLIMS # 9508-316

GTC # 35886

T.B.

Document I.D. #

Date/Time Received 8/23/95 @ 18:00

Parameters	Fraction I.D.	Volume	Relinquished by	Received by	Date	Time
91-1		80ml		IP	8/24	15:30

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements* NYSDEC 1991 CLP PROTOCOL					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER
MW1	35336	X					
MW2	35337	X					
MW3	35338	X					
MW4	35339	X					
MW5	35340	X					
MW6	35341	X					
MW201D	35342	X					
MW202	35343	X					
1121	35344	X					
1146	35345	X					
7852	35346	X					
7873	35347	X					
7883SUMP	35348	X					
7880	35349	X					
1167	35350	X					
SUP	35351	X					
DUP1	35352	X					
DUP2	35353	X					
SUPPLY	35354	X					
EQUIPBLANK	35355	X					
TRIPBLANK	35886	X					

*Check Appropriate Boxes

VOA
ANALYSES

LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	LOW LEVEL MED LEVEL	DATE ANALYZED
35336	WATER	08/22/95	08/23/95	LOW	08/28/95
35337	WATER	08/22/95	08/23/95	LOW	08/28/95
35338	WATER	08/23/95	08/23/95	LOW	08/28/95
35339	WATER	08/23/95	08/23/95	LOW	08/28/95
35340	WATER	08/23/95	08/23/95	LOW	08/28/95
35341	WATER	08/23/95	08/23/95	LOW	08/28/95
35342	WATER	08/23/95	08/23/95	LOW	08/28/95
35343	WATER	08/23/95	08/23/95	LOW	08/28/95
35344	WATER	08/22/95	08/23/95	LOW	08/28/95
35345	WATER	08/22/95	08/23/95	LOW	08/28/95
35346	WATER	08/22/95	08/23/95	LOW	08/28/95
35347	WATER	08/22/95	08/23/95	LOW	08/28/95
35348	WATER	08/22/95	08/23/95	LOW	08/28/95
35349	WATER	08/23/95	08/23/95	LOW	08/29/95
35350	WATER	08/22/95	08/23/95	LOW	08/29/95
35351	WATER	08/23/95	08/23/95	LOW	08/29/95
35352	WATER	08/22/95	08/23/95	LOW	08/29/95
35353	WATER	08/23/95	08/23/95	LOW	08/29/95
35354	WATER	08/23/95	08/23/95	LOW	08/29/95
35355	WATER	08/22/95	08/23/95	LOW	08/28/95
35886	WATER		08/23/95	LOW	08/28/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

ORGANIC ANALYSES

SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
35336	WATER	91-1			1
35337	WATER	91-1			1
35338	WATER	91-1			1, 5
35339	WATER	91-1			1
35340	WATER	91-1			1, 5
35341	WATER	91-1			1
35342	WATER	91-1			50
35343	WATER	91-1			1
35344	WATER	91-1			1
35345	WATER	91-1			1
35346	WATER	91-1			1
35347	WATER	91-1			1
35348	WATER	91-1			1
35349	WATER	91-1			1
35350	WATER	91-1			1
35351	WATER	91-1			1
35352	WATER	91-1			1
35353	WATER	91-1			1
35354	WATER	91-1			1
35355	WATER	91-1			1
35886	WATER	91-1			1

General Testing Corporation

SUBMISSION #: 9508000316

SECTION C

VOLATILES DATA

- QC Summary
- Sample Data
- Standards Data
- Raw QC Data

Q.C. SUMMARY

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	1121	96	102	96		0
02	1146	98	100	98		0
03	1167	104	102	94		0
04	7852	100	102	96		0
05	7873	98	102	96		0
06	7880	102	104	96		0
07	7883SU	94	100	94		0
08	DUP1	98	98	94		0
09	DUP2	96	98	96		0
10	EQUIP	96	100	92		0
11	MW1	92	96	92		0
12	MW2	104	102	100		0
13	MW201D	98	102	96		0
14	MW202	98	100	96		0
15	MW3	98	98	94		0
16	MW3DL	104	102	94		0
17	MW4	102	106	96		0
18	MW5	106	100	102		0
19	MW5DL	98	102	96		0
20	MW6	98	102	98		0
21	SUP	96	98	96		0
22	SUPMS	96	98	96		0
23	SUPMSD	96	100	96		0
24	SUPPLY	96	98	94		0
25	TRIP	92	98	92		0
26	VBLK1	96	98	92		0
27	VBLK2	90	102	102		0
28	VBLK3	98	102	96		0
29	VBLK4	100	98	94		0
30	VBLK4MS	104	102	96		0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix Spike - EPA Sample No.: SUP

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.	2.	46.	88	61-145
Trichloroethene	50.	170.	200.	60*	71-120
Benzene	50.	0.	41.	82	76-127
Toluene	50.	0.	40.	80	76-125
Chlorobenzene	50.	0.	39.	78	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.	52.	100	13	14	61-145
Trichloroethene	50.	190.	40*	40*	14	71-120
Benzene	50.	47.	94	14*	11	76-127
Toluene	50.	45.	90	12	13	76-125
Chlorobenzene	50.	44.	88	12	13	75-130

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

* Values outside of QC limits

RPD: 2 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

trix Spike - EPA Sample No.: VBLK4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.	0.	53.	106	61-145
Trichloroethene	50.	0.	47.	94	71-120
Benzene	50.	0.	48.	96	76-127
Toluene	50.	0.	50.	100	76-125
Chlorobenzene	50.	0.	47.	94	75-130

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

* Values outside of QC limits

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

COMMENTS:

00037

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:Q6486 Lab Sample ID:VBLK1

Date Analyzed: 8/28/95 Time Analyzed:1549

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:MS#5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EQUIP	35355	Q6488	1720
02	MW1	35336	Q6489	1759
03	MW3	35338	Q6490	1911
04	TRIP	35886	Q6487	1631
05				
06				
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COMMENTS:

00038

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:AZ469 Lab Sample ID:VBLK2

Date Analyzed: 8/28/95 Time Analyzed:1732

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:MS#1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW2	35337	AZ470	1829
02	MW5	35340	AZ471	1928
03				
04				
05				
06				
07				
08				
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COMMENTS:

00039

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:Q6494 Lab Sample ID:VBLK3

Date Analyzed: 8/28/95 Time Analyzed:2210

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:MS#5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	1121	35344	Q6501	0314
02	1146	35345	Q6502	0348
03	7852	35346	Q6503	0422
04	7873	35347	Q6504	0455
05	7883SU	35348	Q6505	0529
06	MW201D	35342	Q6499	0207
07	MW202	35343	Q6500	0241
08	MW3DL	35338DL	Q6495	2351
09	MW4	35339	Q6496	0025
10	MW5DL	35340DL	Q6497	0059
11	MW6	35341	Q6498	0133
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COMMENTS:

00040

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:Q6509 Lab Sample ID:VBLK4

Date Analyzed: 8/29/95 Time Analyzed:0929

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:MS#5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	1167	35350	Q6517	1627
02	7880	35349	Q6516	1512
03	DUP1	35352	Q6518	1707
04	DUP2	35353	Q6519	1743
05	SUP	35351	Q6514	1326
06	SUPMS	35351MS	Q6512	1154
07	SUPMSD	35351MSD	Q6515	1413
08	SUPPLY	35354	Q6520	1819
09	VBLK4MS	VBLK4MS	Q6510	1028
10				
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COMMENTS:

00041

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:AZ458 BFB Injection Date: 8/28/95

Instrument ID:MS#1 BFB Injection Time:0815

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	43.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.4(0.5)1
174	50.0 - 120.0% of mass 95	72.8
175	5.0 - 9.0% of mass 174	5.4(7.4)1
176	95.0 - 101.0% of mass 174	72.6(99.7)1
177	5.0 - 9.0% of mass 176	4.9(6.7)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	AZ459	8/28/95	0855
02	VSTD020	VSTD020	AZ460	8/28/95	0935
03	VSTD050	VSTD050	AZ461	8/28/95	1027
04	VSTD100	VSTD100	AZ462	8/28/95	1103
05	VSTD200	VSTD200	AZ466	8/28/95	1457
06	VBLK2	VBLK2	AZ469	8/28/95	1732
07	MW2	35337	AZ470	8/28/95	1829
08	MW5	35340	AZ471	8/28/95	1928
09					
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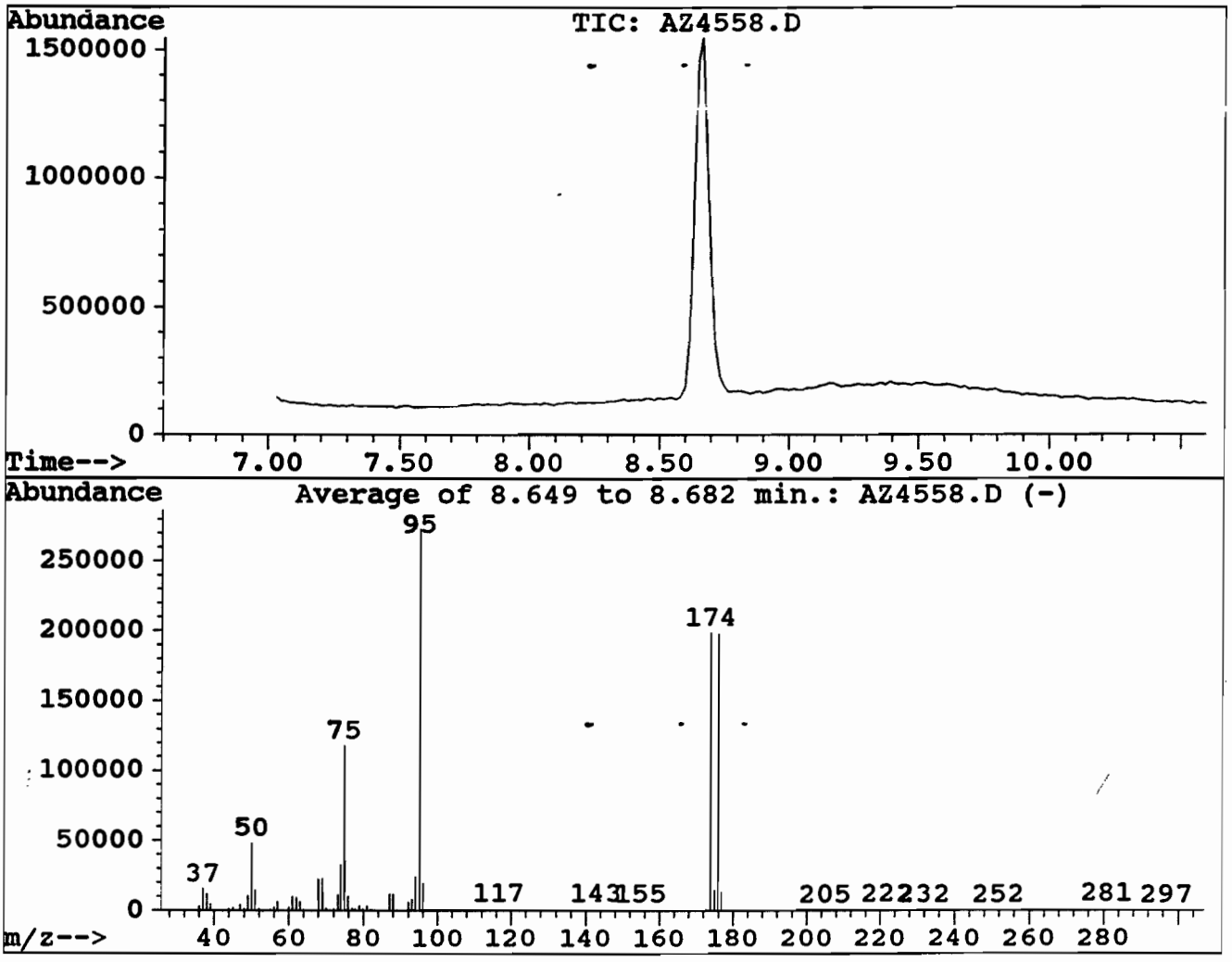
BFB

Data File : C:\HPCHEM\1\DATA\AZ4558.D
Acq On : ~~26 Aug 95~~ 8:15 am 28 Aug 95
Sample : TUNE CHECK (DL) 9/5/95
Misc : 91-1 ASP
Vial: 1
Operator: TOMT
Inst : 5970 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TUNE1.M
Title :



Peak Apex is scan: 94

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	47975	PASS
75	95	30	60	43.1	117846	PASS
95	95	100	100	100.0	273136	PASS
96	95	5	9	7.3	19894	PASS
173	174	0	2	0.6	1122	PASS
174	95	50	100	72.8	198909	PASS
175	174	5	9	7.4	14784	PASS
176	174	95	101	99.6	198201	PASS
177	176	5	9	6.7	13249	PASS

AZ4558.D TUNE1.M Sat Aug 26 08:34:39 1995 GENERALT

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:Q6479 BFB Injection Date: 8/28/95

Instrument ID:MS#5 BFB Injection Time:0835

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.7
75	30.0 - 60.0% of mass 95	49.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	4.2(5.0)1
176	95.0 - 101.0% of mass 174	82.3(98.8)1
177	5.0 - 9.0% of mass 176	5.2(6.3)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	Q6481	8/28/95	1043
02	VSTD020	VSTD020	Q6482	8/28/95	1130
03	VSTD050	VSTD050	Q6483	8/28/95	1229
04	VSTD100	VSTD100	Q6484	8/28/95	1314
05	VSTD200	VSTD200	Q6485	8/28/95	1430
06	VBLK1	VBLK1	Q6486	8/28/95	1549
07	TRIP	35886	Q6487	8/28/95	1631
08	EQUIP	35355	Q6488	8/28/95	1720
09	MW1	35336	Q6489	8/28/95	1759
10	MW3	35338	Q6490	8/28/95	1911
11					
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5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:Q6492 BFB Injection Date: 8/28/95

Instrument ID:MS#5 BFB Injection Time:2042

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	51.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	79.6
175	5.0 - 9.0% of mass 174	4.2(5.3)1
176	95.0 - 101.0% of mass 174	77.8(97.7)1
177	5.0 - 9.0% of mass 176	5.4(6.9)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050C	VSTD050C	Q6493	8/28/95	2122
02	VBLK3	VBLK3	Q6494	8/28/95	2210
03	MW3DL	35338DL	Q6495	8/28/95	2351
04	MW4	35339	Q6496	8/29/95	0025
05	MW5DL	35340DL	Q6497	8/29/95	0059
06	MW6	35341	Q6498	8/29/95	0133
07	MW201D	35342	Q6499	8/29/95	0207
08	MW202	35343	Q6500	8/29/95	0241
09	1121	35344	Q6501	8/29/95	0314
10	1146	35345	Q6502	8/29/95	0348
11	7852	35346	Q6503	8/29/95	0422
12	7873	35347	Q6504	8/29/95	0455
13	7883SU	35348	Q6505	8/29/95	0529
14					
15					
16					
17					
18					
19					
20					
21					
22					

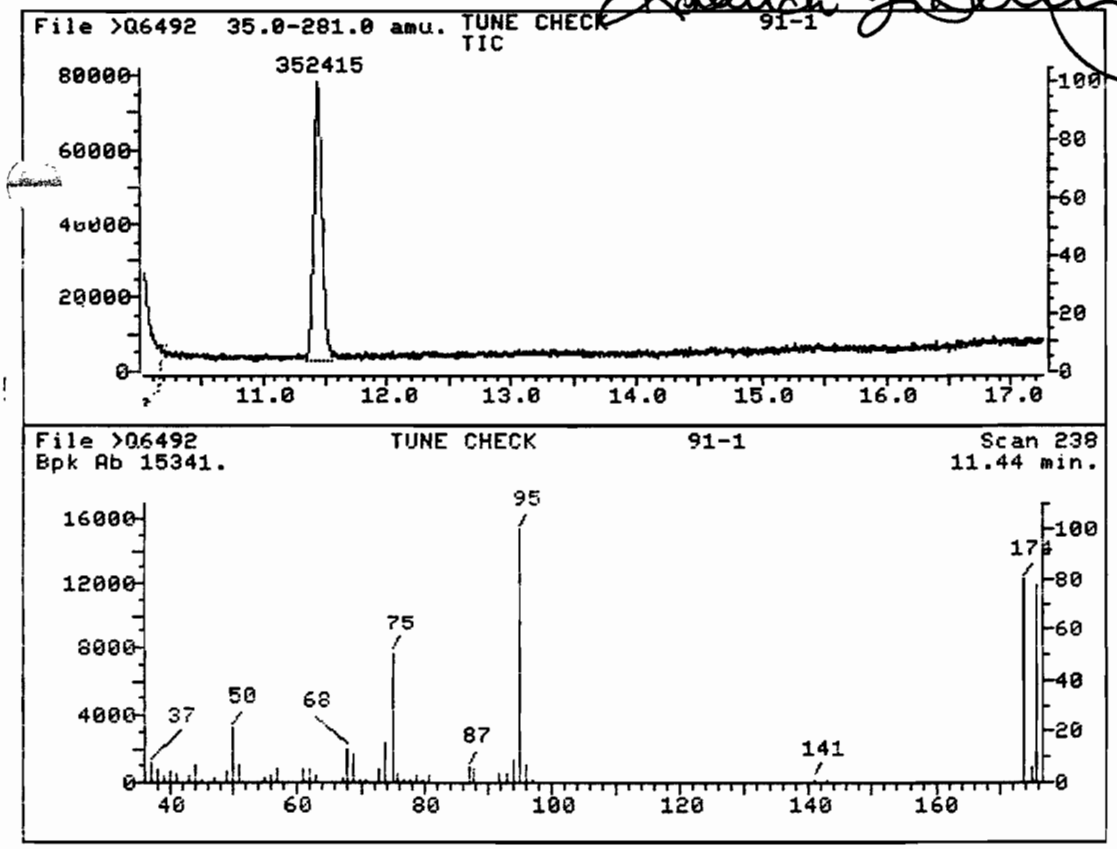
GC/MS PERFORMANCE STANDARD

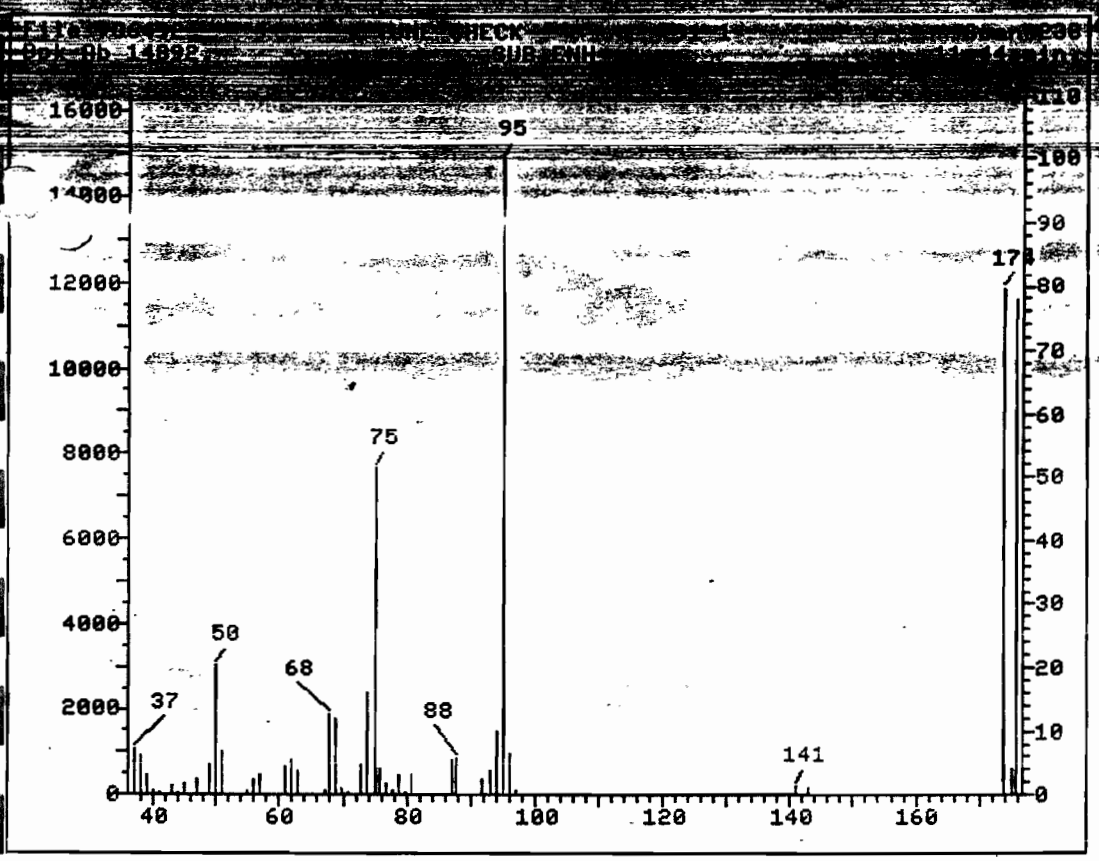
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	20.27	20.27	Ok
75	30-60% of mass 95	51.36	51.36	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.37	6.37	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	50-120% of mass 95	79.64	79.64	Ok
175	5-9% of mass 174	4.20	5.27	Ok
176	95-101% of mass 174	77.81	97.70	Ok
177	5-9% of mass 176	5.37	6.89	Ok

Injection Date: 08/28/95
Injection Time: 20:42
Data File: >Q6492
Scan: 238

Roderick J. Lewis





>Q6492 TUNE CHECK 91-1
238 SUB ENH

File: >Q6492 Scan #: 238 Retn. time: 11.44

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.05	210.0	48.95	700.3	68.00	1870.3	77.95	109.3	95.05	14892.3
37.00	1057.0	49.95	3019.3	68.95	1768.7	78.80	472.0	95.95	948.0
37.90	911.0	50.95	998.0	69.95	179.7	79.90	56.0	97.05	113.7
39.00	442.3	54.95	94.7	70.95	52.3	80.80	458.0	140.75	201.3
40.00	119.3	55.95	341.0	72.95	730.3	87.00	806.7	142.90	171.7
41.00	70.0	57.05	450.3	73.95	2357.0	87.90	851.3	173.85	11860.7
43.10	191.3	61.00	689.7	75.05	7648.3	91.85	383.7	174.95	625.3
44.00	61.0	62.00	796.7	75.95	625.7	92.95	582.7	175.85	11588.3
45.00	242.7	62.90	551.0	76.95	259.3	93.95	1492.3	176.85	799.0
47.00	351.3	67.20	137.0						

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID:Q6507 BFB Injection Date: 8/29/95

Instrument ID:MS#5 BFB Injection Time:0800

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	49.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	5.9(7.2)1
176	95.0 - 101.0% of mass 174	80.7(98.7)1
177	5.0 - 9.0% of mass 176	5.6(6.9)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050D	VSTD050D	Q6508	8/29/95	0842
02	VBLK4	VBLK4	Q6509	8/29/95	0929
03	VBLK4MS	VBLK4MS	Q6510	8/29/95	1028
04	SUPMS	35351MS	Q6512	8/29/95	1154
05	SUP	35351	Q6514	8/29/95	1326
06	SUPMSD	35351MSD	Q6515	8/29/95	1413
07	7880	35349	Q6516	8/29/95	1512
08	1167	35350	Q6517	8/29/95	1627
09	DUP1	35352	Q6518	8/29/95	1707
10	DUP2	35353	Q6519	8/29/95	1743
11	SUPPLY	35354	Q6520	8/29/95	1819
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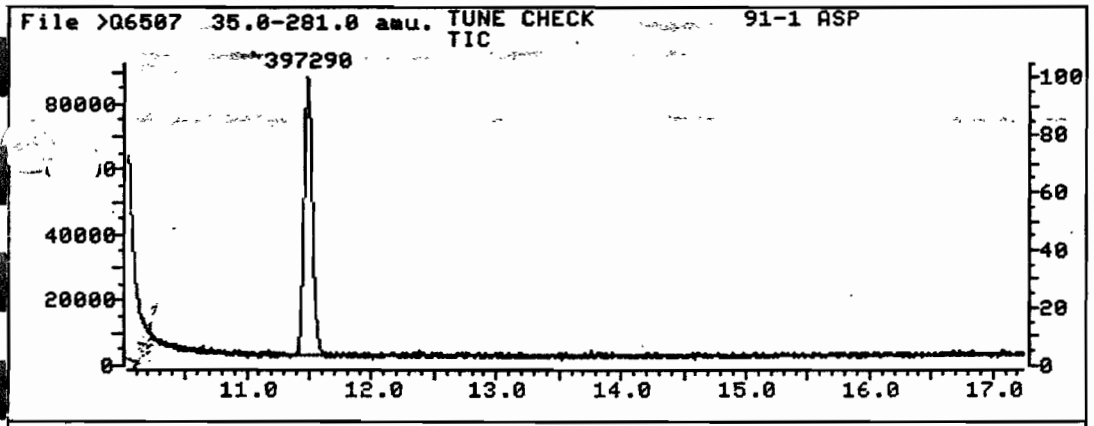
GC/MS PERFORMANCE STANDARD

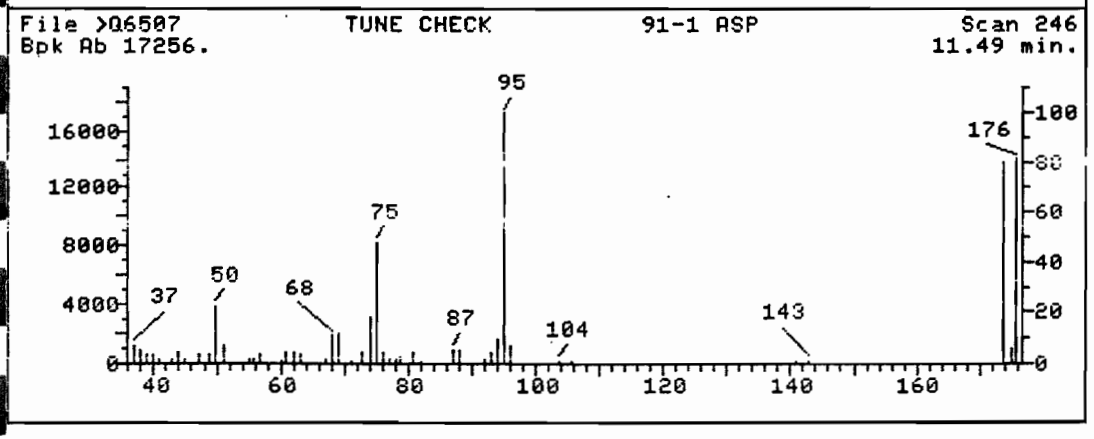
Bromofluorobenzene (BFB)

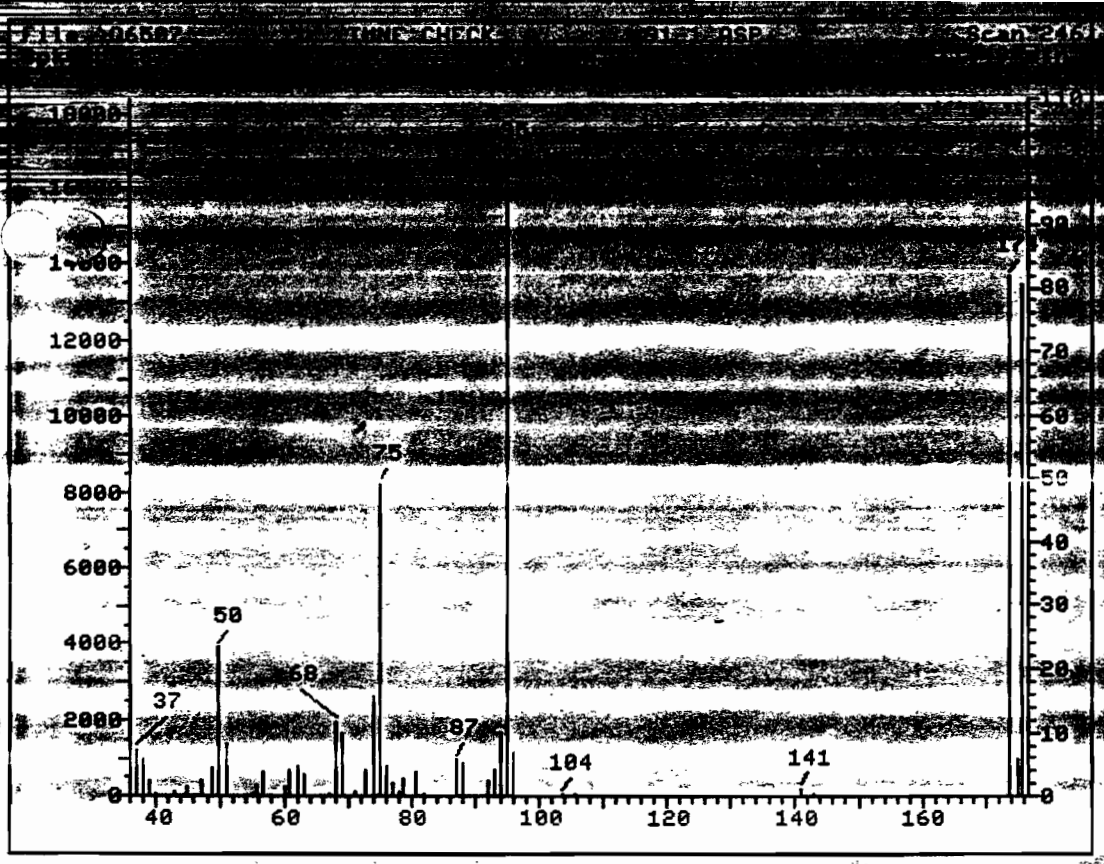
m/z	Ion Abundance Criteria	Base Peak	Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	23.24	23.24	Ok
75	30-60% of mass 95	49.02	49.02	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.93	6.93	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	50-120% of mass 95	81.74	81.74	Ok
175	5-9% of mass 174	5.88	7.20	Ok
176	95-101% of mass 174	80.67	98.68	Ok
177	5-9% of mass 176	5.58	6.91	Ok

Injection Date: 08/29/95
Injection Time: 08:00
Data File: >Q6507
Scan: 246

Leonard D. Hanson







>Q6507 TUNE CHECK 91-1 ASP
246 SUB ENH

File: >Q6507 Scan #: 246 Retn. time: 11.49

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	221.7	49.95	3886.0	68.00	1958.7	78.80	464.0	95.95	1158.0
37.00	1211.3	51.05	1369.0	68.95	1666.0	80.80	645.0	103.70	69.0
38.00	980.0	55.05	67.0	70.95	122.3	81.90	66.3	105.80	54.3
39.00	425.0	55.95	318.0	72.85	672.3	87.00	965.7	140.85	200.0
40.00	76.0	56.95	624.0	73.95	2610.0	87.90	838.7	142.80	72.7
41.00	4.7	60.00	214.0	74.95	8196.0	92.05	419.3	173.85	13666.0
42.90	103.7	60.90	708.3	75.95	797.0	92.95	695.0	174.95	983.3
44.90	236.3	62.00	830.7	77.05	325.7	93.95	1659.7	175.85	13486.0
47.00	421.7	63.00	579.3	77.95	154.3	94.95	16718.0	176.85	932.3
48.95	757.3	67.10	85.3						

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

ab File ID (Standard):AZ461 Date Analyzed: 8/28/95

Instrument ID:MS#1 Time Analyzed:1027

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	425395	8.94	1752559	11.70	1377905	18.51
	UPPER LIMIT	850790	9.44	3505118	12.20	2755810	19.01
	LOWER LIMIT	212698	8.44	876280	11.20	688953	18.01
	EPA SAMPLE NO.						
01	VBLK2	353407	8.96	1466686	11.74	1115357	18.62
02	MW2	357043	8.98	1520379	11.72	1159018	18.51
03	MW5	347441	9.01	1463142	11.81	1148617	18.57
04							
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22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

00051

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID (Standard):Q6483 Date Analyzed: 8/28/95

Instrument ID:MS#5 Time Analyzed:1229

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	228115	10.12	992907	11.84	837767	18.24
	UPPER LIMIT	456230	10.62	1985814	12.34	1675534	18.74
	LOWER LIMIT	114058	9.62	496454	11.34	418884	17.74
	EPA SAMPLE NO.						
01	VBLK1	212091	10.10	908510	11.80	784314	18.19
02	TRIP	217210	10.12	928953	11.84	845663	18.26
03	EQUIP	213606	10.15	907507	11.85	789225	18.26
04	MW1	215458	10.08	914192	11.80	819936	18.24
05	MW3	219361	10.14	957935	11.86	809067	18.25
06							
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20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

00052

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

ab File ID (Standard):Q6493 Date Analyzed: 8/28/95

Instrument ID:MS#5 Time Analyzed:2122

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	223925	10.14	950197	11.86	854283	18.25
	UPPER LIMIT	447850	10.64	1900394	12.36	1708566	18.75
	LOWER LIMIT	111963	9.64	475099	11.36	427142	17.75
	EPA SAMPLE NO.						
01	VBLK3	210623	10.08	896799	11.80	803070	18.26
02	MW3DL	221801	10.10	975282	11.82	827532	18.23
03	MW6	213611	10.07	911641	11.80	844167	18.23
04	MW201D	203851	10.07	849660	11.79	772885	18.23
05	MW202	215975	10.07	902437	11.79	836083	18.23
06	1121	215620	10.05	926036	11.78	847451	18.23
07	1146	212453	10.07	897125	11.79	828849	18.21
08	7852	218061	10.07	923055	11.78	828819	18.19
09	7873	211702	10.08	889607	11.80	826403	18.21
10	7883SU	213425	10.10	881725	11.80	813624	18.21
11	MW4	190508	10.10	820806	11.82	710723	18.24
12	MW5DL	214400	10.09	921415	11.80	842452	18.23
13							
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20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

00053

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Lab File ID (Standard):Q6508 Date Analyzed: 8/29/95

Instrument ID:MS#5 Time Analyzed:0842

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	217422	10.07	931459	11.79	829289	18.24
	UPPER LIMIT	434844	10.57	1862918	12.29	1658578	18.74
	LOWER LIMIT	108711	9.57	465730	11.29	414645	17.74
	EPA SAMPLE NO.						
01	VBLK4	214240	10.08	942320	11.80	819335	18.23
02	VBLK4MS	208714	10.12	902588	11.84	777613	18.23
03	SUPMS	200098	10.12	850094	11.84	791709	18.24
04	SUP	187318	10.08	779532	11.80	731844	18.21
05	SUPMSD	203456	10.08	866882	11.80	814833	18.23
06	7880	199061	10.08	847849	11.80	736815	18.21
07	1167	216594	10.10	918338	11.82	782089	18.24
08	DUP1	205831	10.10	860388	11.82	807879	18.23
09	DUP2	199865	10.14	841465	11.85	811103	18.26
10	SUPPLY	207845	10.10	886295	11.82	827726	18.23
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22							

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AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside of QC limits with an asterisk.
* Values outside of QC limits.

INSTRUMENT DETECTION LIMIT - GENERAL TESTING CORPORATION

METHOD: 91-1 ASP
MS #5

DATE: 08/26/95
ANALYST: T. TRAVER

ANALYTE	AMOUNT ADDED ug/L	TRIAL 1 ug/L	TRIAL 2 ug/L	TRIAL 3 ug/L	TRIAL 4 ug/L	TRIAL 5 ug/L	SD ug/L	IDL ug/L
Chloromethane	10.0	7.86	9.15	6.86	8.14	7.52	0.84	3.16
Vinyl chloride	10.0	7.47	8.25	6.82	6.87	7.04	0.59	2.23
Bromomethane	10.0	9.43	9.84	8.81	8.45	9.75	0.60	2.27
Chloroethane	10.0	7.53	8.08	6.63	6.82	7.19	0.58	2.17
Acetone	10.0	7.64	10.00	8.54	7.83	9.51	1.03	3.87
1,1-Dichloroethene	10.0	7.15	7.92	6.49	6.73	6.87	0.55	2.07
Methylene chloride	10.0	7.43	8.17	6.66	6.86	7.18	0.59	2.21
Carbon Disulfide	10.0	7.00	7.74	6.18	6.39	6.98	0.61	2.29
trans-1,2-Dichloroethene	10.0	7.13	7.76	6.35	6.38	6.96	0.58	2.19
1,1-Dichloroethane	10.0	7.23	7.91	6.38	6.69	6.78	0.59	2.23
2-Butanone	10.0	9.46	9.56	7.96	9.47	10.25	0.84	3.14
cis-1,2-Dichloroethene	10.0	7.31	7.70	6.12	6.58	6.57	0.64	2.39
Chloroform	10.0	7.33	7.93	6.65	6.67	6.98	0.53	2.00
1,2-Dichloroethane	10.0	7.44	8.27	6.64	6.80	6.92	0.66	2.48
1,2-Dichloroethane-d4	10.0	10.10	10.00	10.01	9.82	9.55	0.22	0.82
1,1,1-Trichloroethane	10.0	7.35	8.22	6.54	6.85	6.73	0.68	2.53
Carbon tetrachloride	10.0	6.81	7.37	5.95	6.28	6.43	0.54	2.04
Benzene	10.0	7.82	8.64	7.02	7.11	7.17	0.69	2.57
Trichloroethene	10.0	7.34	8.02	6.57	6.91	6.76	0.58	2.17
1,2-Dichloropropane	10.0	7.76	8.41	7.08	7.24	7.13	0.56	2.12
Bromodichloromethane	10.0	7.23	8.08	6.58	6.83	6.64	0.62	2.32
cis-1,2-Dichloropropene	10.0	7.24	8.08	6.43	6.75	6.77	0.64	2.41
trans-1,3-Dichloropropene	10.0	7.11	7.97	6.26	6.44	6.37	0.72	2.70
1,1,2-Trichloroethane	10.0	7.59	8.71	7.22	7.58	6.90	0.68	2.56
Dibromochloromethane	10.0	6.86	7.78	6.45	6.41	6.27	0.61	2.30
Bromoform	10.0	6.29	7.10	6.33	6.29	5.17	0.69	2.58
4-Methyl-2-Pentanone	10.0	8.01	9.02	7.70	7.18	7.87	0.67	2.52
Toluene-d8	10.0	10.14	9.82	10.41	10.17	10.40	0.24	0.90
Toluene	10.0	7.57	8.46	6.61	7.01	7.48	0.69	2.61
2-Hexanone	10.0	7.94	9.89	7.62	7.81	7.70	0.96	3.59
Tetrachloroethene	10.0	6.90	7.36	6.08	6.30	6.78	0.51	1.90
Chlorobenzene	10.0	7.15	8.05	6.54	6.76	6.80	0.60	2.23
Ethylbenzene	10.0	7.28	8.03	6.44	6.89	7.13	0.58	2.19
(m+p)Xylene	10.0	15.01	16.69	13.24	14.25	13.79	1.34	5.02
o-Xylene	10.0	7.06	7.78	6.38	6.68	6.64	0.54	2.04
Styrene	10.0	6.86	7.61	6.44	5.72	6.30	0.70	2.64
1,1,2,2-Tetrachloroethane	10.0	7.55	8.82	8.45	7.74	5.53	1.28	4.79
Bromofluorobenzene	10.0	9.32	9.75	11.40	10.54	9.67	0.84	3.13

Instrument Detection Limit Study
General Testing Corporation

EPA Method #: 91-1
Instrument: GC/MS #1

Date: 04/13/95
Analyst: RJ Herring

Cmpd #	Analyte	Amount Added (ng)	Trial #1	Trial #2	Trial #3	Mean (ng)	S (ng)	N # of reps	IDL* (ng)
2	Chloromethane	10.00	11.67	11.43	11.19	11.32	0.5422	3	3.773
3	Vinyl chloride	10.00	11.61	11.68	11.32	11.45	0.4835	3	3.365
4	Bromomethane	10.00	11.32	11.81	11.50	11.43	0.5510	3	3.835
5	Chloroethane	10.00	11.89	11.94	11.33	11.58	0.6440	3	4.483
6	Acetone	10.00	14.72	14.65	13.49	13.40	0.9198	3	6.402
7	1,1-Dichloroethene	10.00	11.65	11.36	11.50	11.29	0.4215	3	2.933
8	Methylene chloride	10.00	11.47	11.78	11.95	11.60	0.5460	3	3.800
9	Carbon Disulfide	10.00	10.96	11.02	10.78	10.77	0.3911	3	2.722
10	trans-1,2-Dichloroethene	10.00	11.09	11.41	11.30	11.11	0.4462	3	3.106
11	1,1-Dichloroethane	10.00	11.11	11.40	11.17	11.17	0.4330	3	3.014
12	2-Butanone	10.00	12.32	13.28	12.55	12.32	0.7835	3	5.453
13	cis-1,2-Dichloroethene	10.00	11.25	11.84	11.33	11.39	0.6261	3	4.358
14	Chloroform	10.00	10.91	11.49	11.39	11.13	0.6162	3	4.289
15	1,2-Dichloroethane	10.00	11.22	11.83	12.14	11.51	0.7572	3	5.270
16	1,2-Dichloroethane-d4	10.00	6.64	6.62	6.90	7.67	0.4374	3	3.044
18	1,1,1-Trichloroethane	10.00	10.38	10.99	11.50	10.85	0.8287	3	5.768
19	Carbon tetrachloride	10.00	10.27	10.86	11.10	10.70	0.7233	3	5.034
20	Benzene	10.00	10.88	11.07	11.43	11.03	0.5849	3	4.071
21	Trichloroethene	10.00	10.51	11.03	10.99	10.73	0.5953	3	4.143
22	1,2-Dichloropropane	10.00	10.95	11.28	11.39	11.07	0.5296	3	3.686
23	Bromodichloromethane	10.00	10.19	10.95	10.76	10.48	0.6960	3	4.844
24	cis-1,3-Dichloropropene	10.00	10.19	10.76	10.53	10.41	0.5926	3	4.125
25	trans-1,3-Dichloropropene	10.00	10.18	10.97	10.88	10.57	0.7278	3	5.065
26	1,1,2-Trichloroethane	10.00	10.83	11.59	11.23	11.05	0.6824	3	4.749
27	Dibromochloromethane	10.00	10.05	10.65	10.31	10.28	0.6071	3	4.225
28	Bromoform	10.00	10.16	10.58	10.25	10.13	0.5204	3	3.622
30	4-Methyl-2-Pentanone	10.00	12.59	12.95	12.32	12.15	0.6222	3	4.330
31	Toluene-d8	10.00	6.58	6.39	6.34	7.20	0.3938	3	2.741
32	Toluene	10.00	10.85	11.26	11.06	10.86	0.5011	3	3.488
33	2-Hexanone	10.00	13.67	12.32	12.22	12.40	0.9959	3	6.932
34	Tetrachloroethene	10.00	11.21	11.57	11.24	11.18	0.4946	3	3.443
35	Chlorobenzene	10.00	11.05	11.28	11.22	11.03	0.3823	3	2.660
36	Ethylbenzene	10.00	10.83	11.02	10.81	10.76	0.3768	3	2.622
37	(m+p) Xylene	20.00	25.55	25.34	25.35	24.67	0.3809	3	2.651
38	o-Xylene	10.00	12.28	11.72	12.13	11.59	0.5958	3	4.147
39	Styrene	10.00	11.23	11.29	11.81	11.03	0.6250	3	4.350
40	1,1,2,2-Tetrachloroethane	10.00	12.41	12.25	12.35	11.87	0.3146	3	2.190
41	Bromofluorobenzene	10.00	6.91	6.64	6.93	7.53	0.4454	3	3.100

SAMPLE DATA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP1

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35352

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6518

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	2.	J
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00058

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP1

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35352

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6518

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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28.					
29.					
30.					

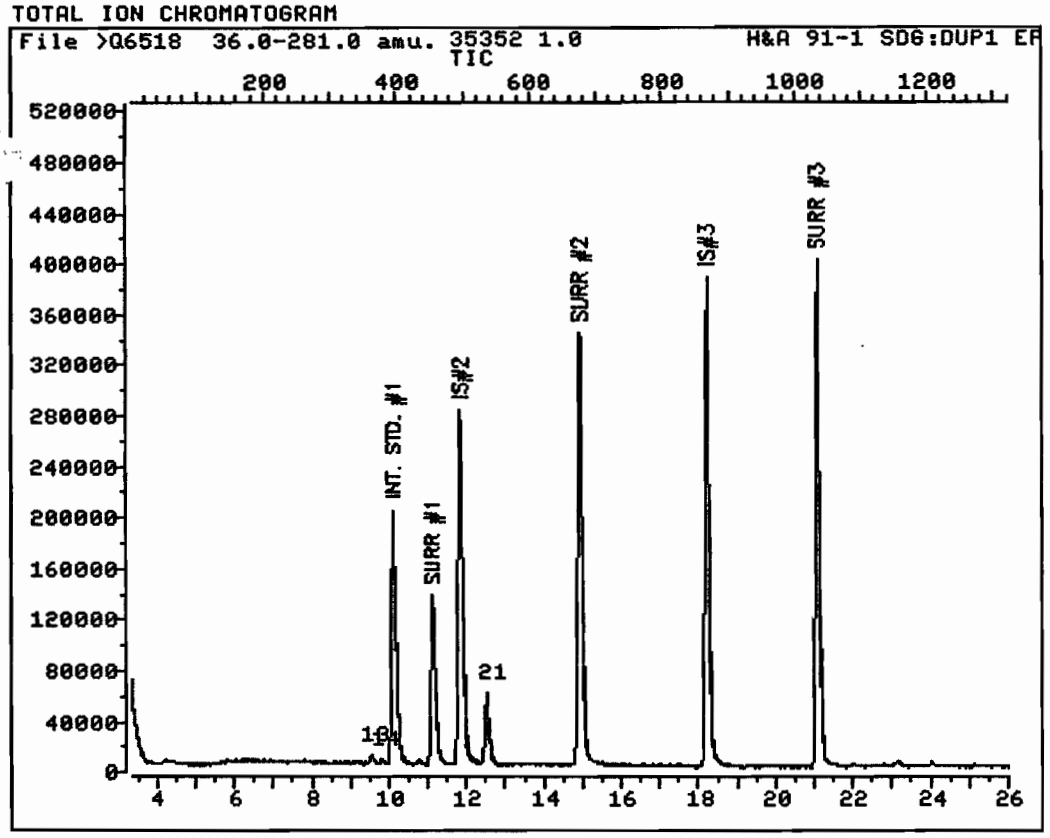
Operator ID: RODH Quant Rev: 7 Quant Time: 950829 05:43
Output File: ^Q6518::D3 Injected at: 950829 17:07
Data File: >Q6518::D3 Dilution Factor: 1.00000
Name: 35352 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP1

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.10	128.0	205831	50.00	ppb	97
13)	cis-1,2-Dichloroethene	9.54	96.0	12223	2.00	ppb	80
14)	Chloroform	9.81	83.0	17381	1.46	ppb	97
16)	1,2-Dichloroethane-d4	11.10	65.0	333660	47.27	ppb	91
17)	*1,4-Difluorobenzene	11.82	114.0	860388	50.00	ppb	82
21)	Trichloroethene	12.52	130.0	76232	9.78	ppb	93
29)	*Chlorobenzene-d5	18.23	117.0	807879	50.00	ppb	96
31)	Toluene-d8	14.91	98.0	807424	48.53	ppb	87
41)	Bromofluorobenzene	21.06	95.0	525972	49.21	ppb	89

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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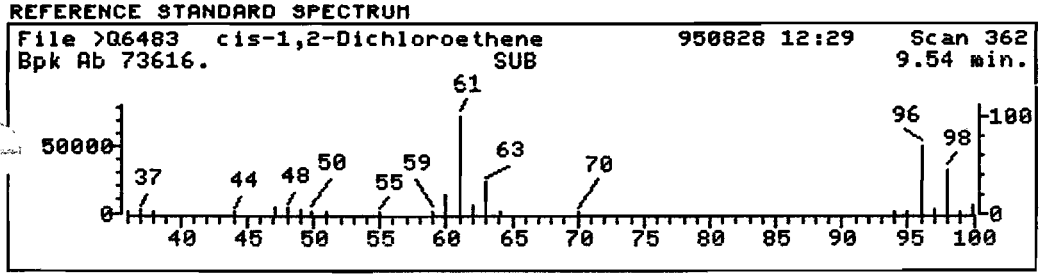
Name: 35352 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP1

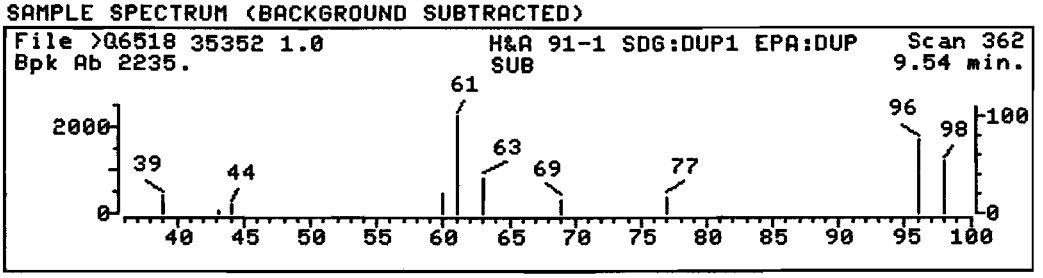
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: RODH
Quant Time : 950829 05:43
Injected at: 950829 17:07

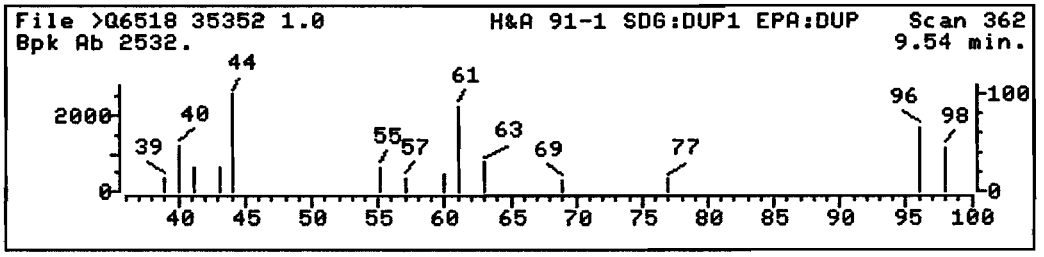
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



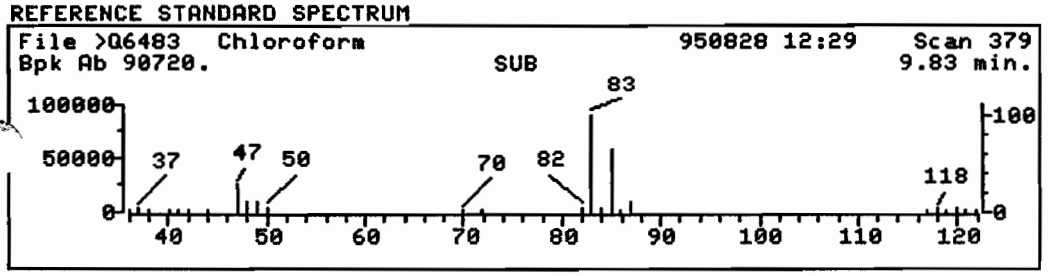
SAMPLE SPECTRUM (UNALTERED)



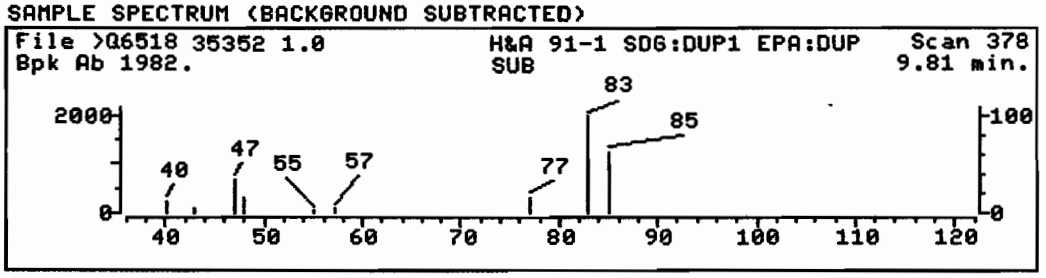
Data File: >Q6518::D3 Quant Output File: ^Q6518::D3
Name: 35352 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP1
Quant Time: 950829 05:43 Quant ID File: IDECLP::QT
Injected at: 950829 17:07 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 362
Retention Time: 9.54 min.
Quant Ion : 96.0
Area : 12223
Concentration : 2.00 ppb
q-value : 80

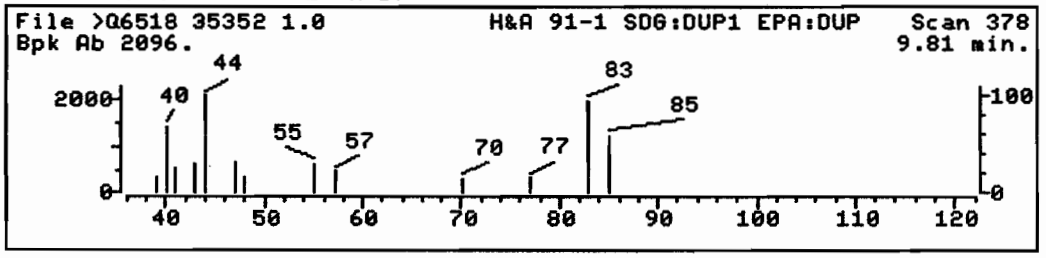
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



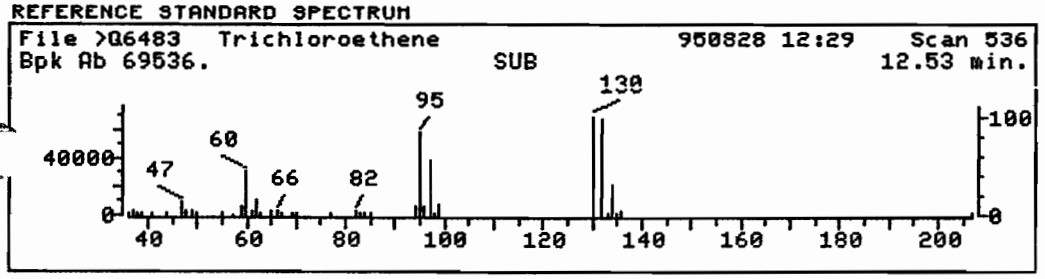
SAMPLE SPECTRUM (UNALTERED)



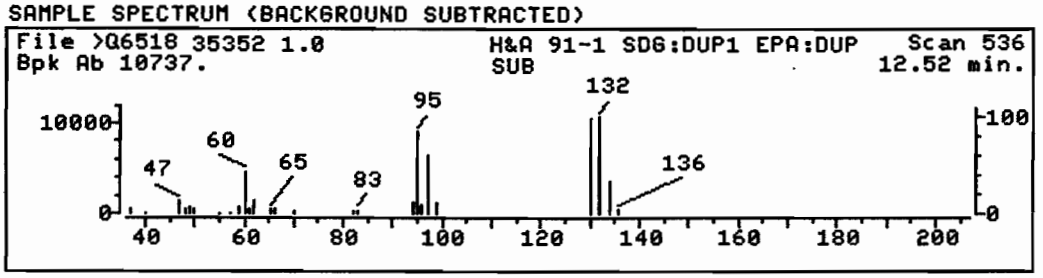
Data File: >Q6518::D3 Quant Output File: ^Q6518::D3
Name: 35352 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP1
Quant Time: 950829 05:43 Quant ID File: IDECLP::QT
Injected at: 950829 17:07 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 14
Compound Name : Chloroform
Scan Number : 378
Retention Time: 9.81 min.
Quant Ion : 83.0
Area : 17381
Concentration : 1.46 ppb
q-value : 97

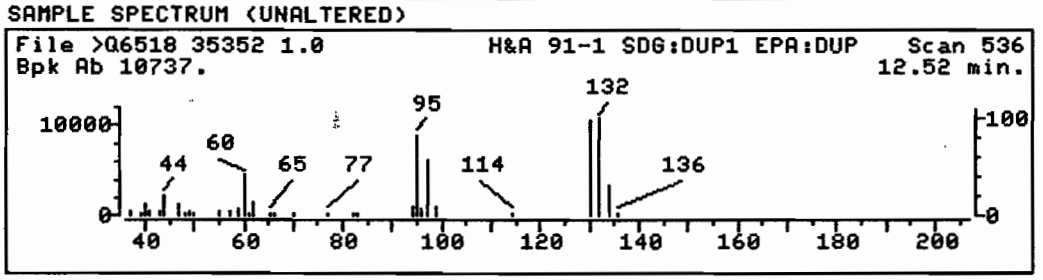
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6518::D3 Quant Output File: ^Q6518::D3
Name: 35352 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP1
Quant Time: 950829 05:43 Quant ID File: IDECLP::QT
Injected at: 950829 17:07 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 536
Retention Time: 12.52 min.
Quant Ion : 130.0
Area : 76232
Concentration : 9.78 ppb
q-value : 93

MS data file header from : >Q6518::D3

Sample: 35352 1.0 Operator: RODH 8/29/95 17:07
Misc : H&A 91-1 SDG:DUP1 EPA:DUP1
S. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

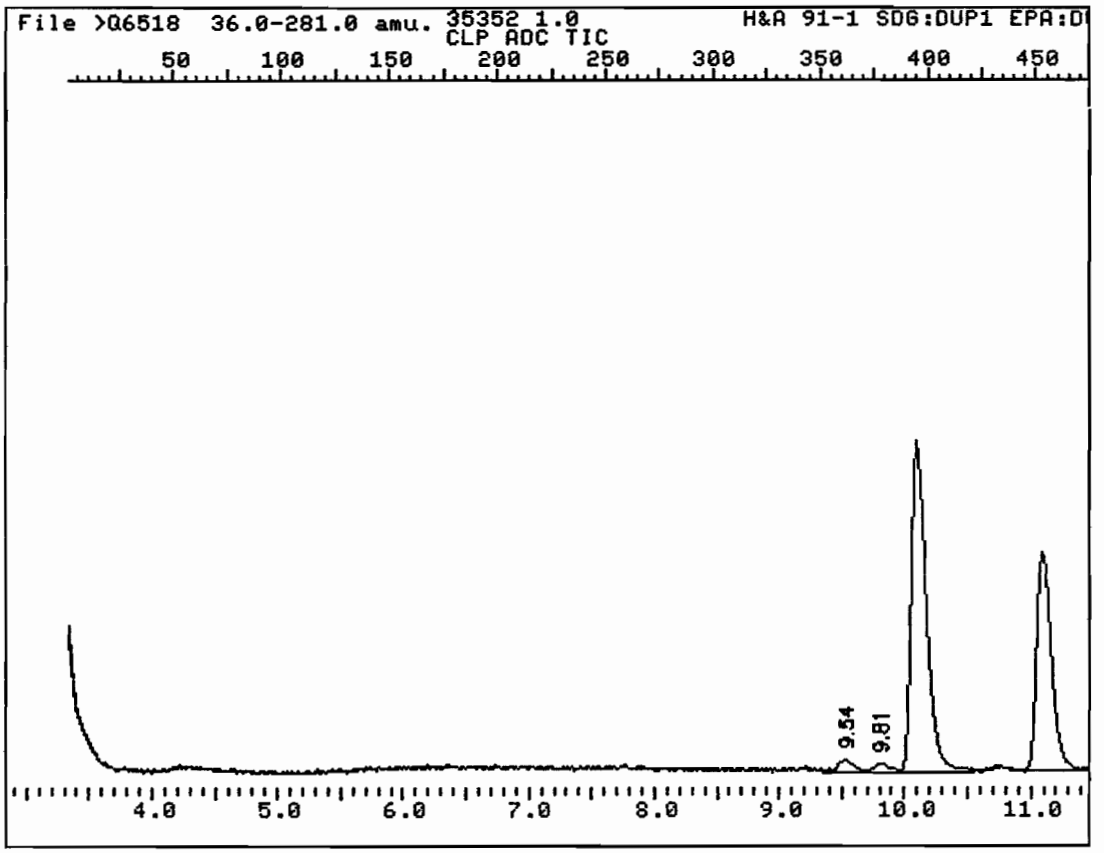
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1483294.	10.10	3.34 - 10.96
2	50.0	2080081.	11.82	10.96 - 15.02
3	50.0	2460444.	18.23	15.02 - 26.01

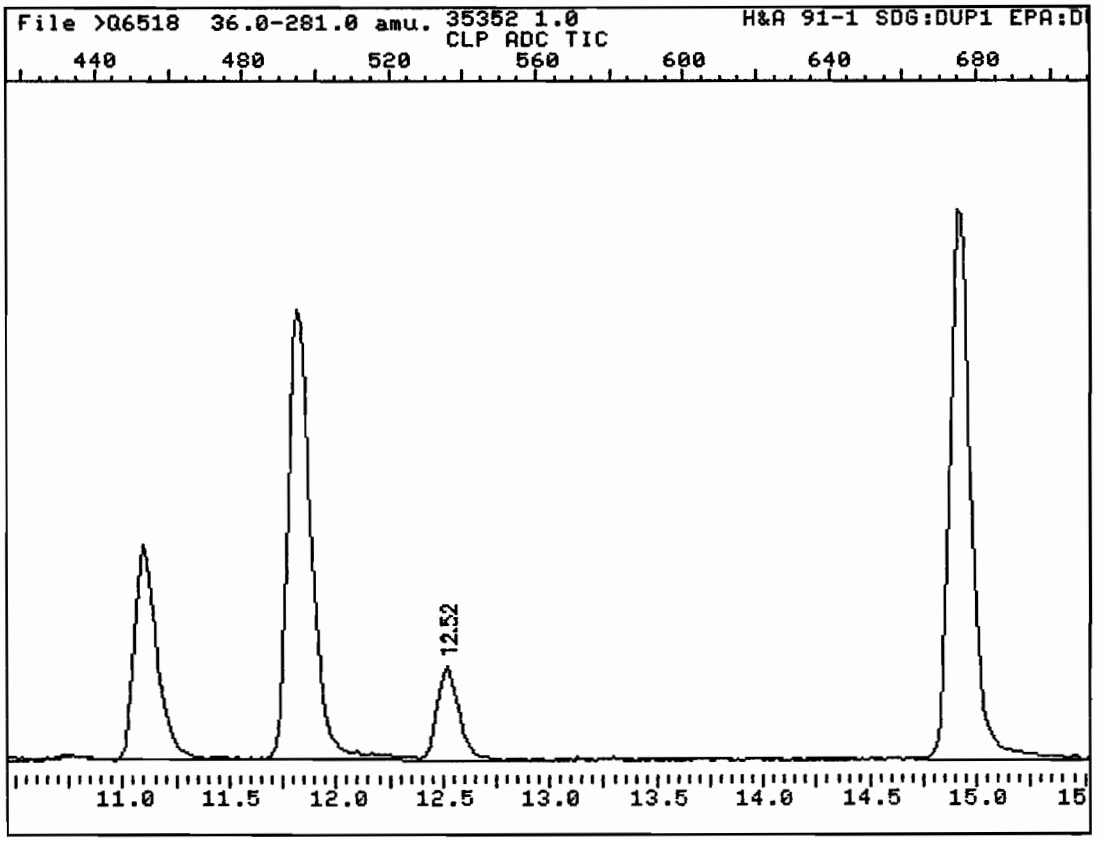
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

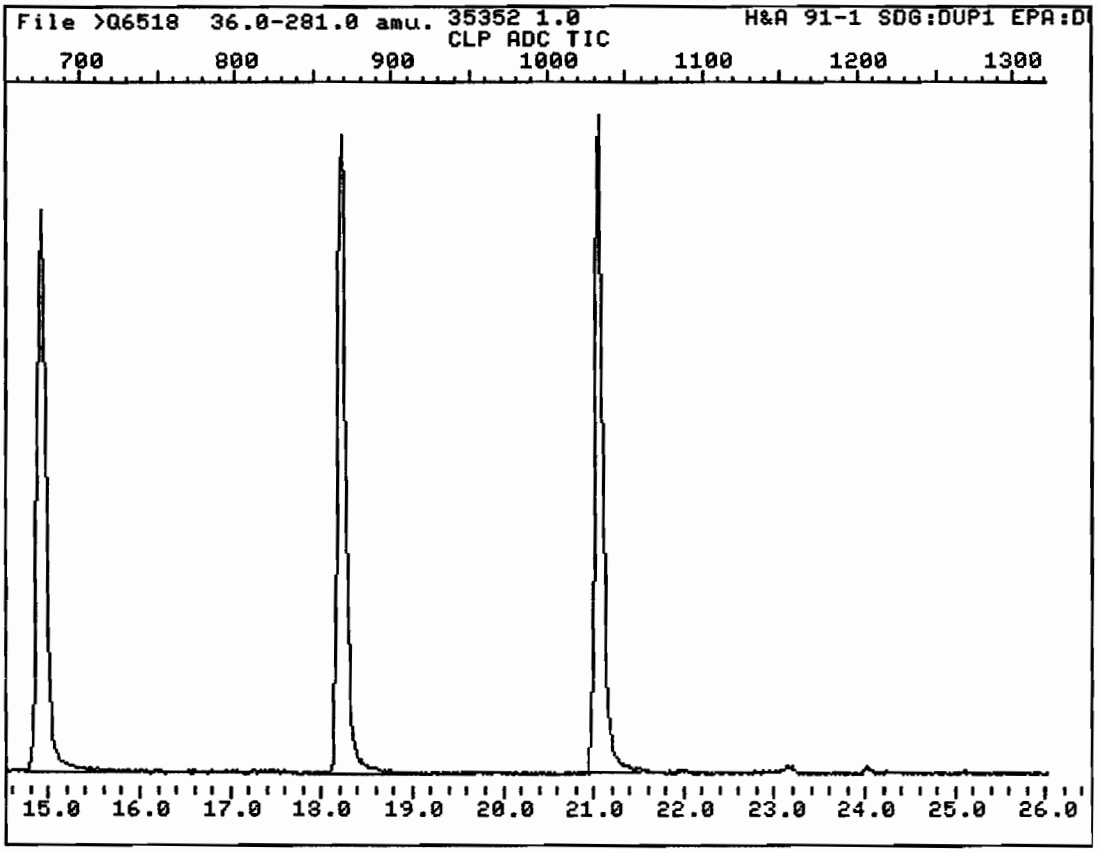
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} \times \text{Area Unknown}}{\text{Area Int Std}} \times \text{Correction Factor}$$

1:25 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 17:07



Instrument ID: 1 Analyzed on: 8/29/95 17:07

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP2

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35353

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6519

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	9.	J
71-55-6	1,1,1-Trichloroethane	5.	J
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	150.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP2

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35353

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6519

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

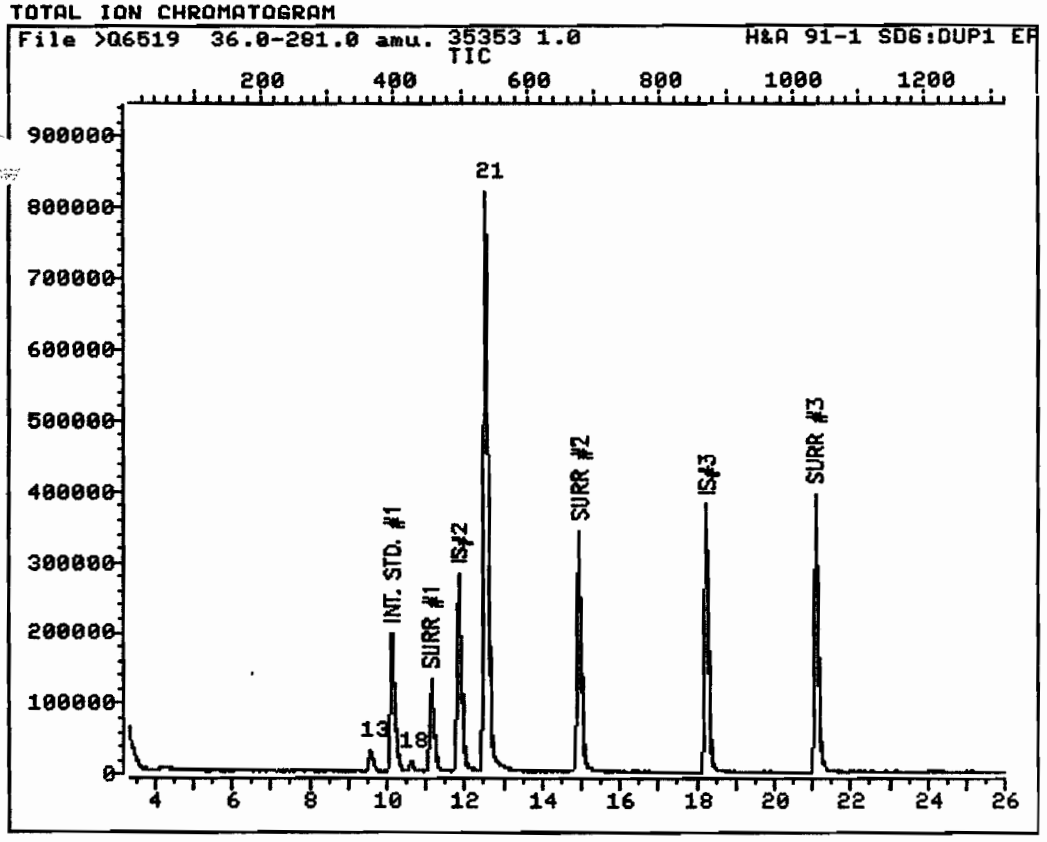
Operator ID: RODH Quant Rev: 7 Quant Time: 950829 06:21
Output File: ^Q6519::D3 Injected at: 950829 17:43
Data File: >Q6519::D3 Dilution Factor: 1.00000
Name: 35353 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP2

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.14	128.0	199865	50.00	ppb	98
13)	cis-1,2-Dichloroethene	9.55	96.0	52420	8.83	ppb	93
16)	1,2-Dichloroethane-d4	11.11	65.0	328507	47.93	ppb	93
17)	*1,4-Difluorobenzene	11.85	114.0	841465	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.58	97.0	43770	4.65	ppb	93
21)	Trichloroethene	12.54	130.0	1152662	151.25	ppb	99
29)	*Chlorobenzene-d5	18.26	117.0	811103	50.00	ppb	97
31)	Toluene-d8	14.95	98.0	794534	47.56	ppb	87
41)	Bromofluorobenzene	21.08	95.0	524342	48.87	ppb	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM

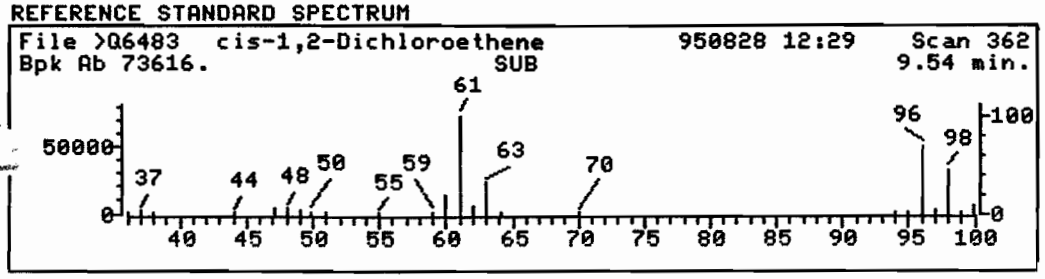


Data File: >Q6519::D3 Quant Output File: ^Q6519::D3
Name: 35353 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP2

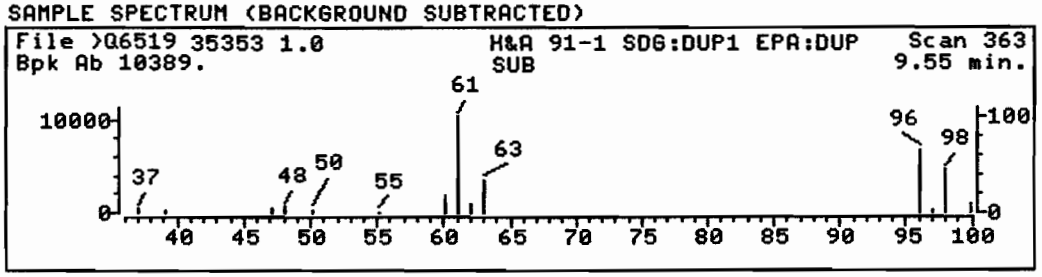
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: RODH
Quant Time : 950829 06:21
Injected at: 950829 17:43

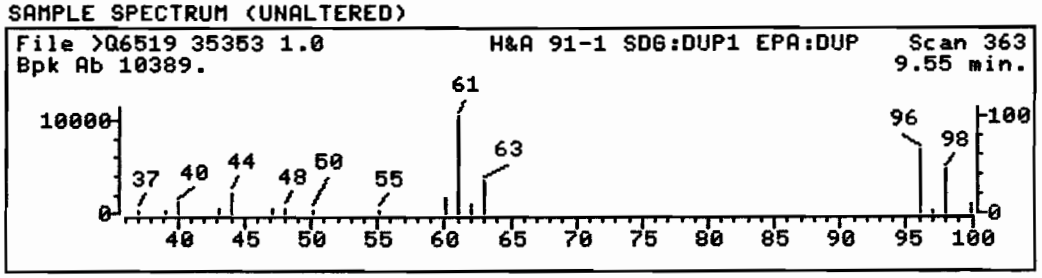
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



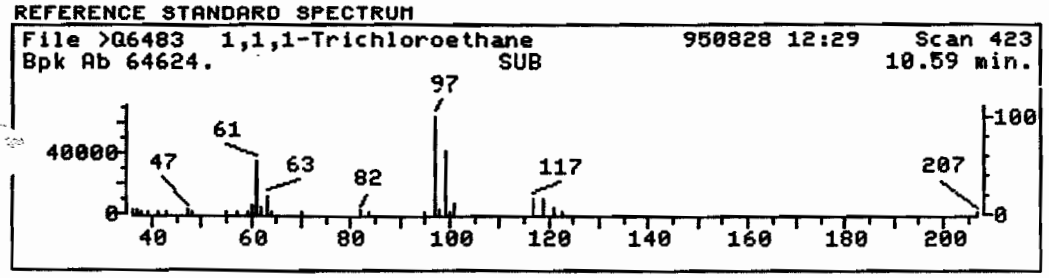
SAMPLE SPECTRUM (UNALTERED)



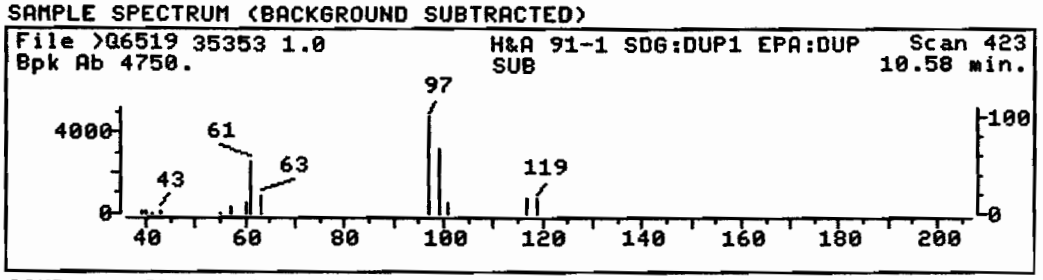
Data File: >Q6519::D3 Quant Output File: ^Q6519::D3
Name: 35353 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP2
Quant Time: 950829 06:21 Quant ID File: IDECLP::QT
Injected at: 950829 17:43 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 363
Retention Time: 9.55 min.
Quant Ion : 96.0
Area : 52420
Concentration : 8.83 ppb
q-value : 93

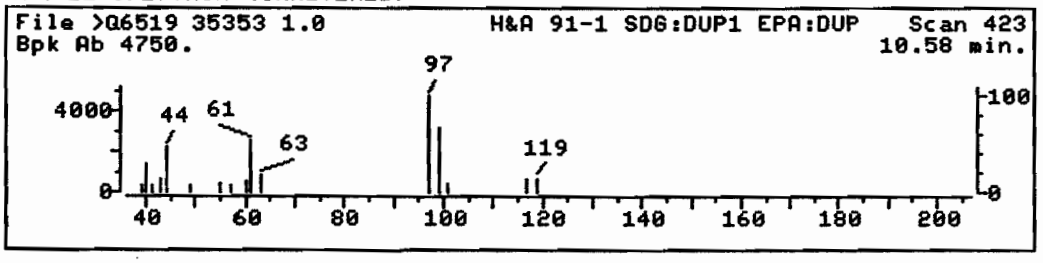
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



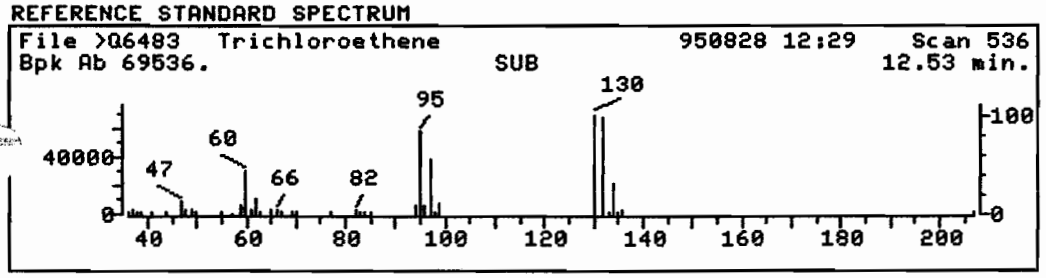
SAMPLE SPECTRUM (UNALTERED)



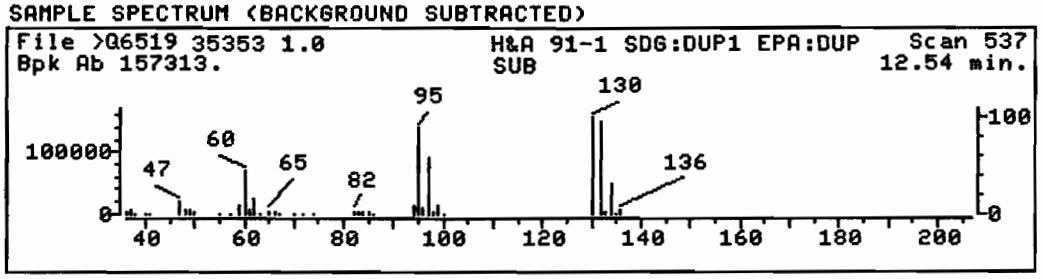
Data File: >Q6519::D3 Quant Output File: ^Q6519::D3
Name: 35353 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP2
Quant Time: 950829 06:21 Quant ID File: IDECLP::QT
Injected at: 950829 17:43 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 423
Retention Time: 10.58 min.
Quant Ion : 97.0
Area : 43770
Concentration : 4.65 ppb
q-value : 93

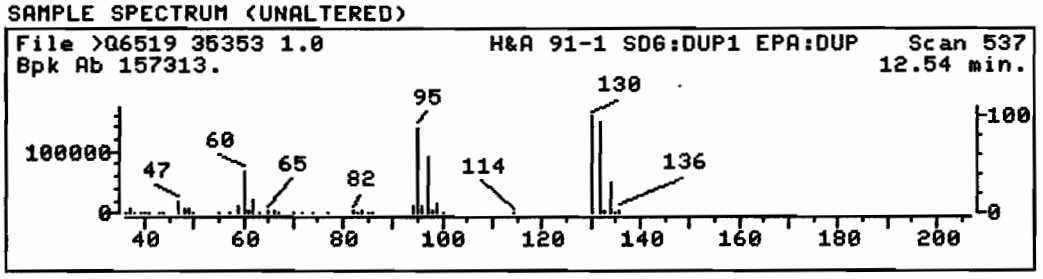
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6519::D3 Quant Output File: ^Q6519::D3
Name: 35353 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:DUP2
Quant Time: 950829 06:21 Quant ID File: IDECLP::QT
Injected at: 950829 17:43 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 537
Retention Time: 12.54 min.
Quant Ion : 130.0
Area : 1152662
Concentration : 151.25 ppb
q-value : 99

MS data file header from : >Q6519::D3

Sample: 35353 1.0 Operator: RODH 8/29/95 17:43
Misc : H&A 91-1 SDG:DUP1 EPA:DUP2
Acq. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

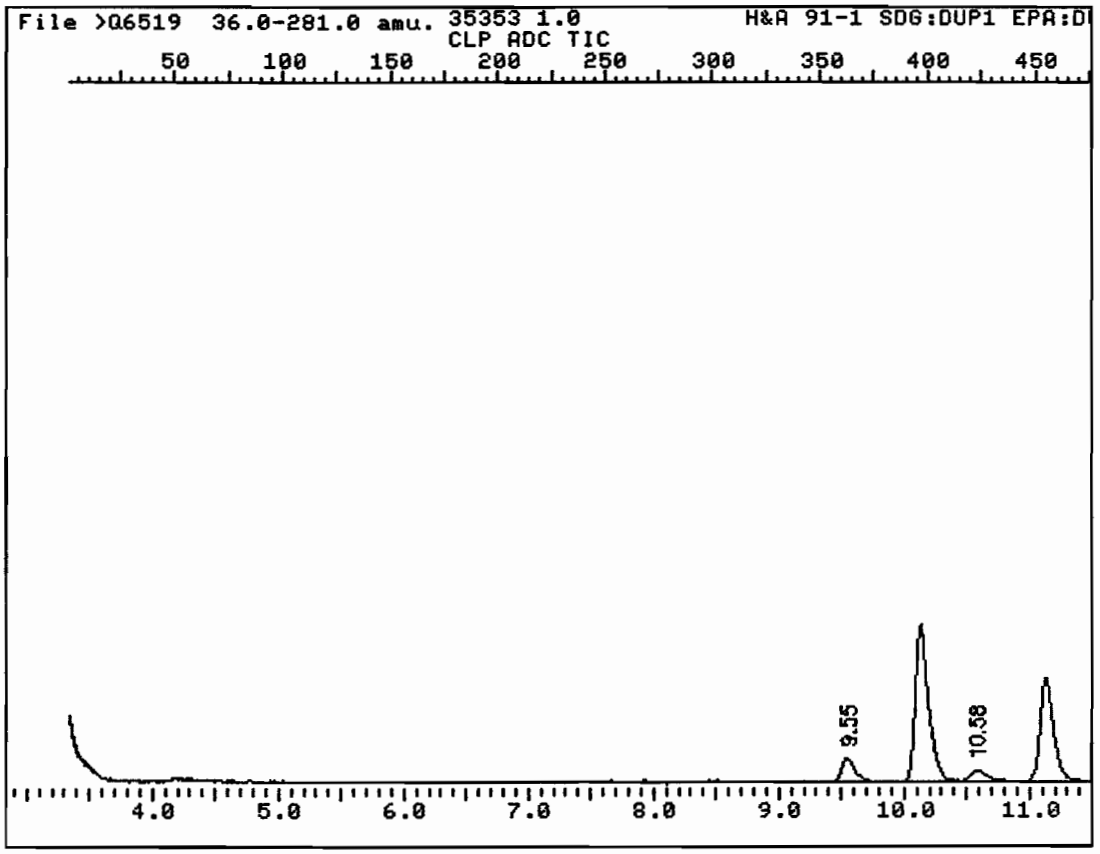
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1464944.	10.14	3.34 - 10.99
2	50.0	2024513.	11.85	10.99 - 15.06
3	50.0	2463006.	18.26	15.06 - 26.00

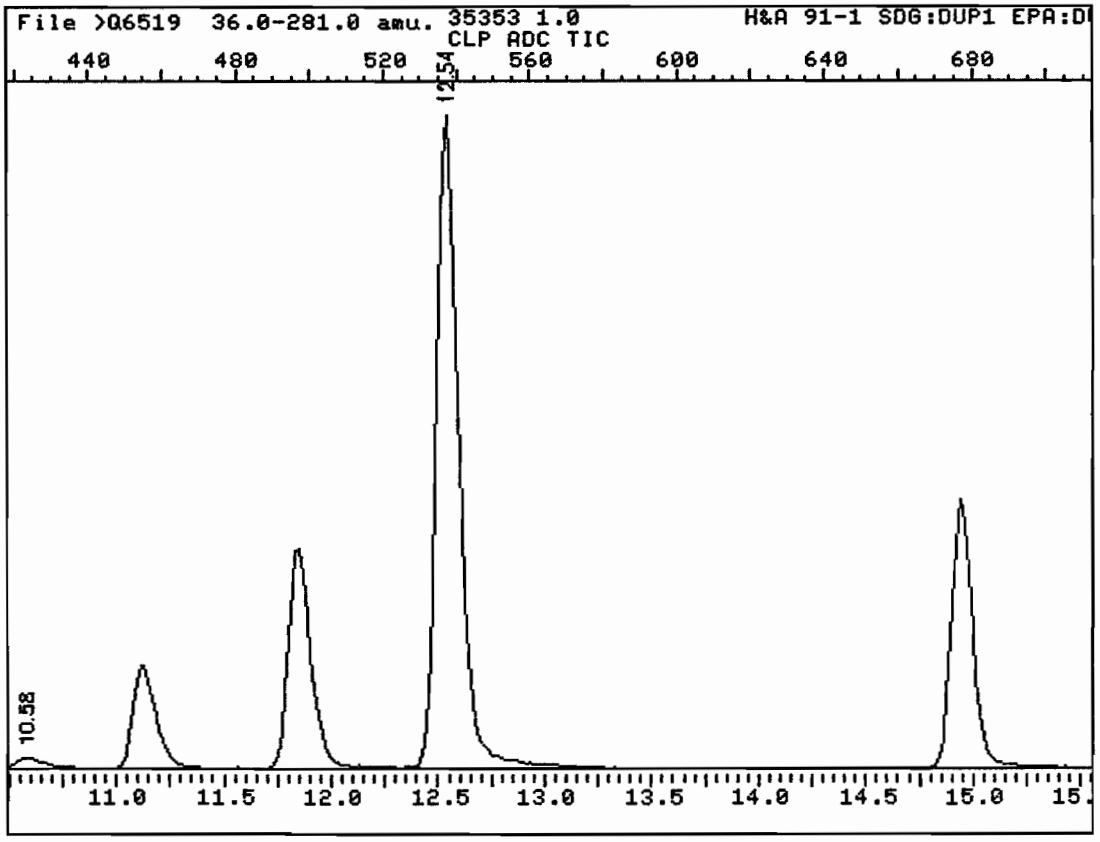
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

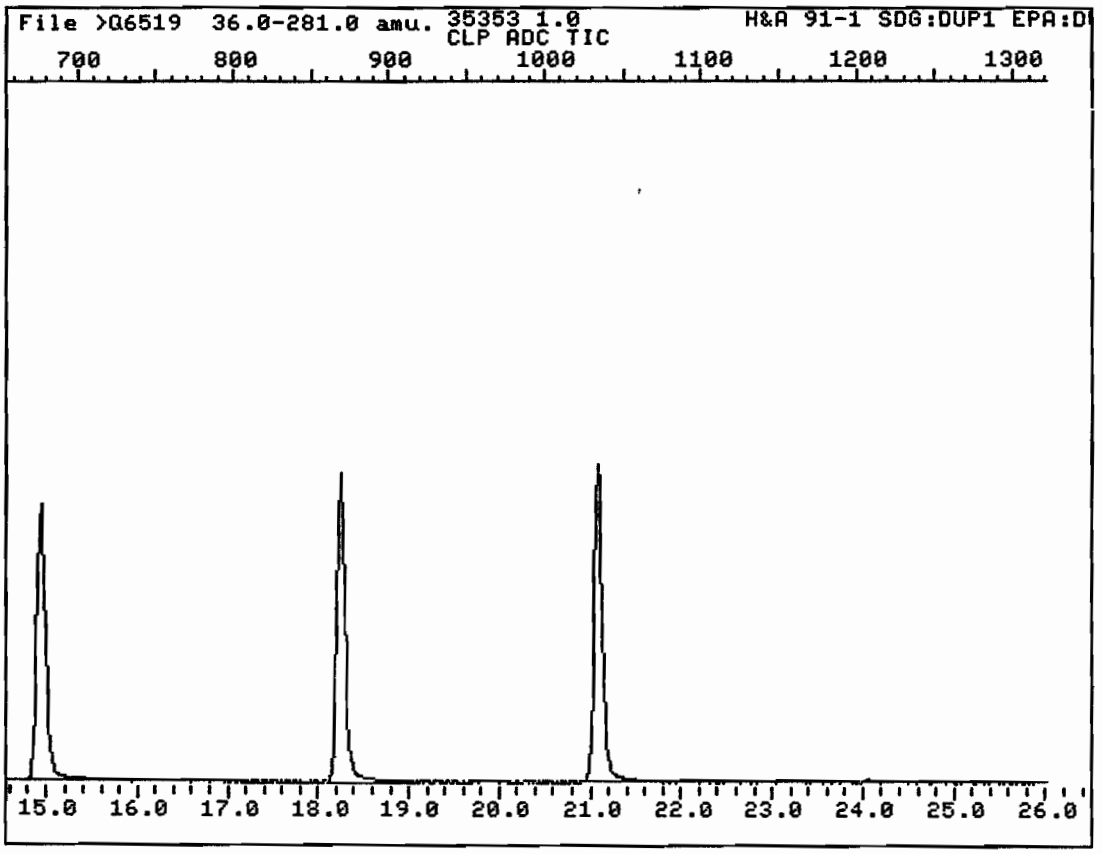
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

1:31 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 17:43



Instrument ID: 1 Analyzed on: 8/29/95 17:43

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQUIP

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35355

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6488

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	5.	J
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00078

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EQUIP

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35355

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6488

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	5.04	5.	J
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.					

00079

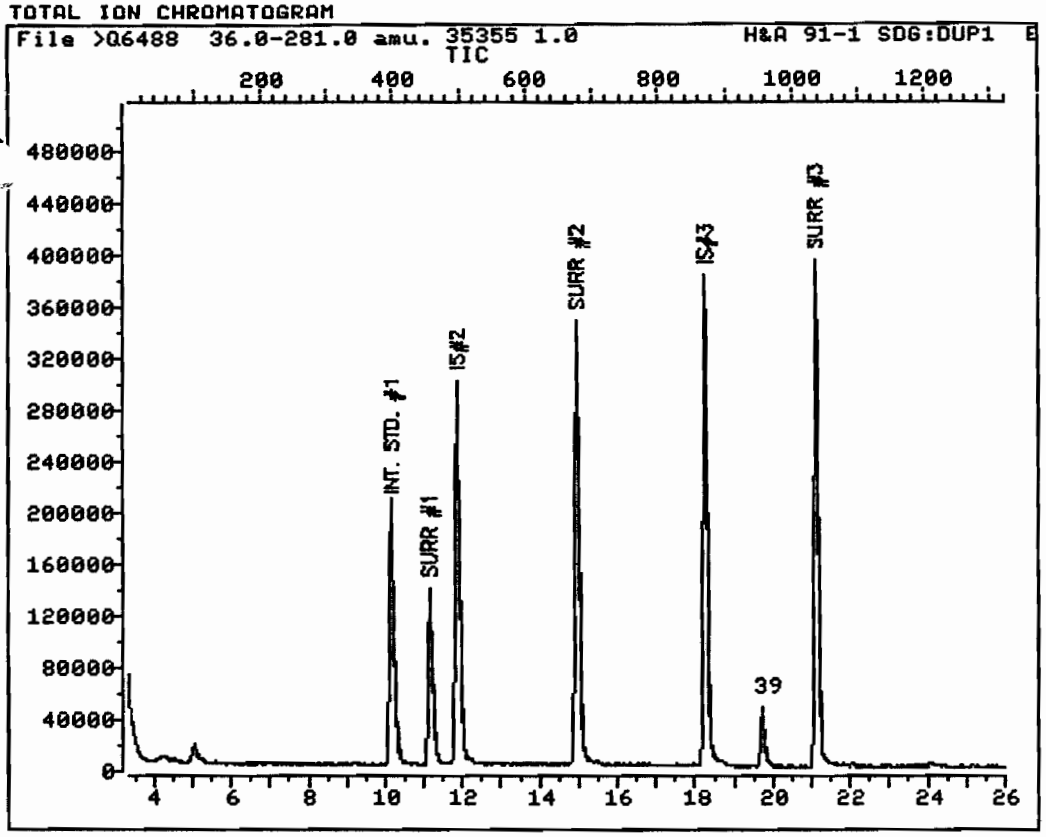
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 06:01
Output File: ^Q6488::D5 Injected at: 950828 17:20
Data File: >Q6488::D5 Dilution Factor: 1.00000
Name: 35355 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:EQUIPBLANK

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.15	128.0	213606	50.00	ppb	97
16)	1,2-Dichloroethane-d4	11.13	65.0	345840	46.31	ppb	92
17)	*1,4-Difluorobenzene	11.85	114.0	907507	50.00	ppb	84
29)	*Chlorobenzene-d5	18.26	117.0	789225	50.00	ppb	95
31)	Toluene-d8	14.95	98.0	834995	47.77	ppb	92
39)	Styrene	19.72	104.0	85764	4.99	ppb	89
41)	Bromofluorobenzene	21.09	95.0	533880	49.74	ppb	87

* Compound is ISTD

TOTAL ION CHROMATOGRAM

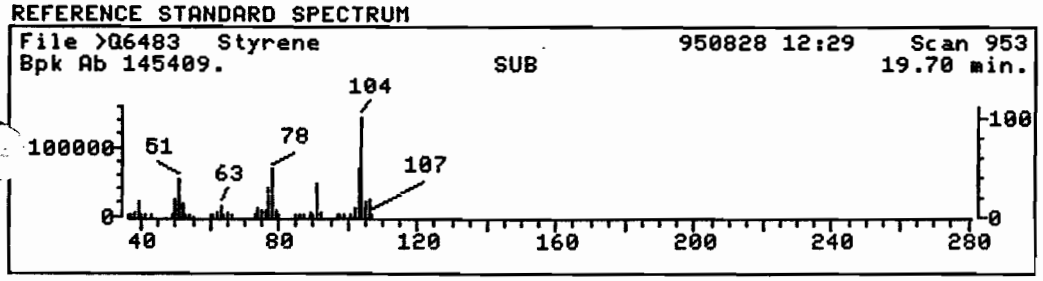


Data File: >Q6488::D5 Quant Output File: ^Q6488::D5
Name: 35355 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:EQUIPBLANK

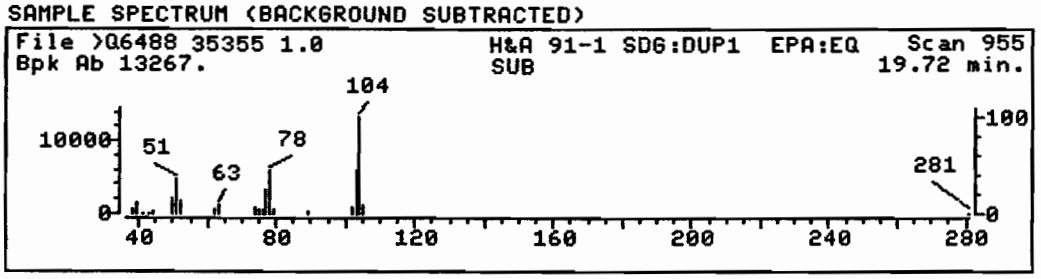
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

Operator ID: RODH
Quant Time : 950828 06:01
Injected at: 950828 17:20

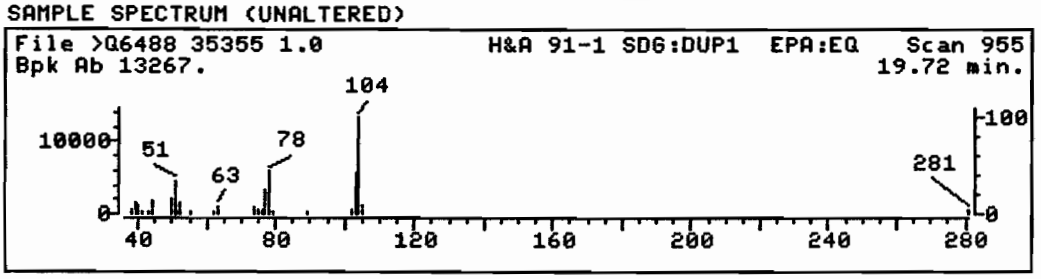
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6488::D5 Quant Output File: ^Q6488::D5
Name: 35355 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:EQUIPBLANK
Quant Time: 950828 06:01 Quant ID File: IDECLP::QT
Injected at: 950828 17:20 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 39
Compound Name : Styrene
Scan Number : 955
Retention Time: 19.72 min.
Quant Ion : 104.0
Area : 85764
Concentration : 4.99 ppb
q-value : 89

MS data file header from : >Q6488::D5

Sample: 35355 1.0 Operator: RODH 8/28/95 17:20
Misc : H&A 91-1 SDG:DUP1 EPA:EQUIPBLANK
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>Q6488 35355 1.0 H&A 91-1 SDG:DUP1 EPA:EQUIPBLANK
36.0| 281.0 CLP TIC
Upslope: .2000 Area Reject: 153666. Max Peaks: 1 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IQ6488 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.04	93	100	124	15983	364341	164077	100.00	100.000

Sum of corrected areas: 164077.

Summary of Unknowns PBM Library Search and Quantitation

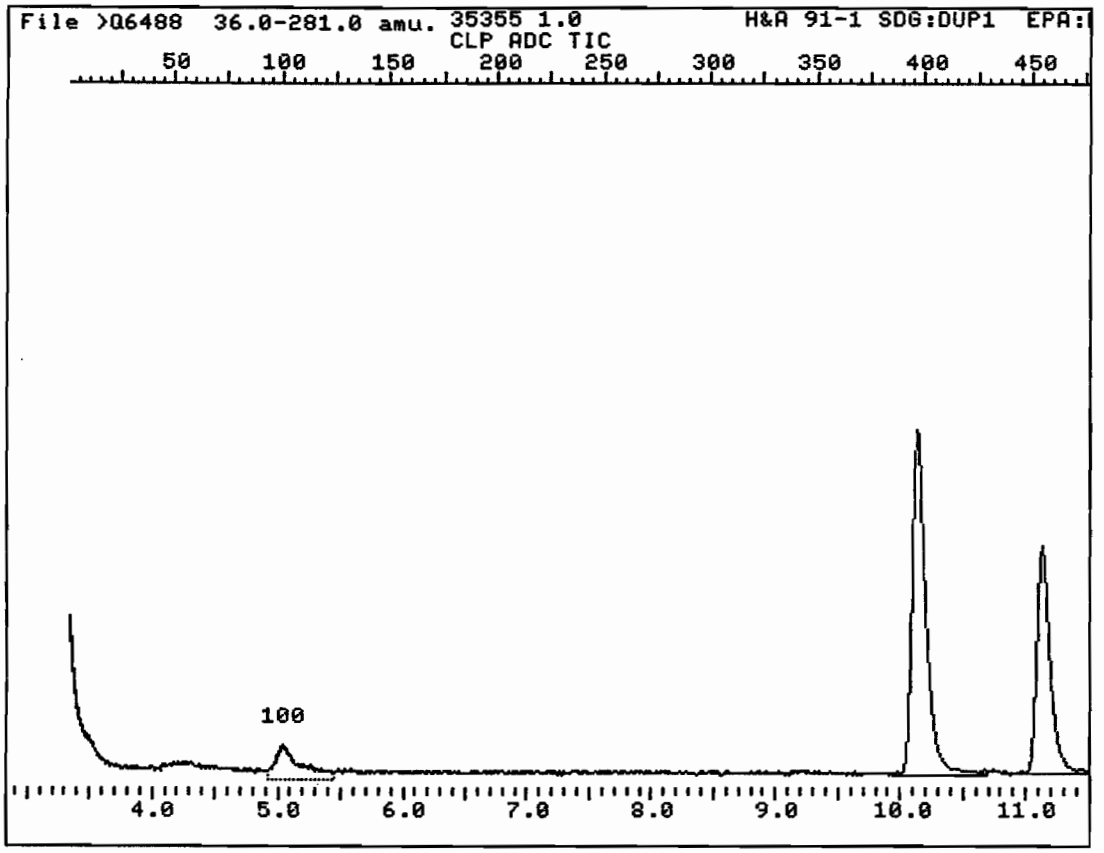
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1536660.	10.15	3.34 - 11.00
2	50.0	2175144.	11.85	11.00 - 15.06
3	50.0	2391199.	18.26	15.06 - 26.01

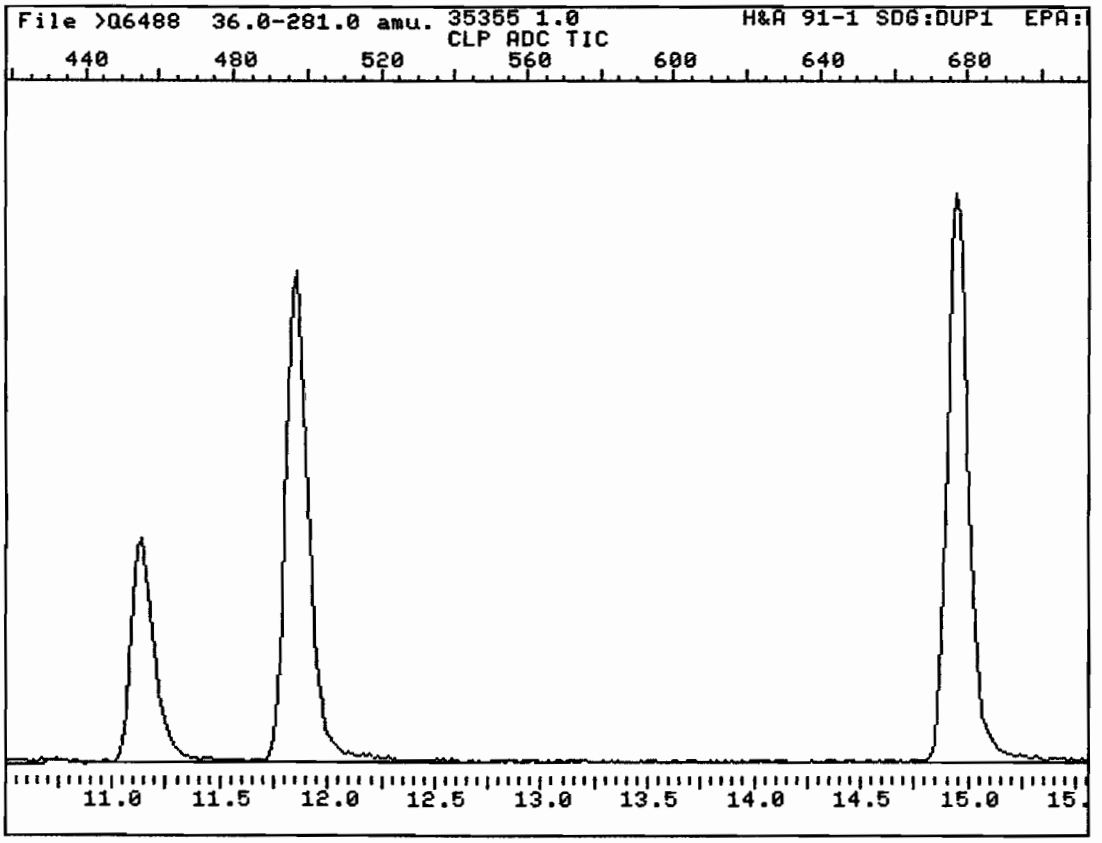
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

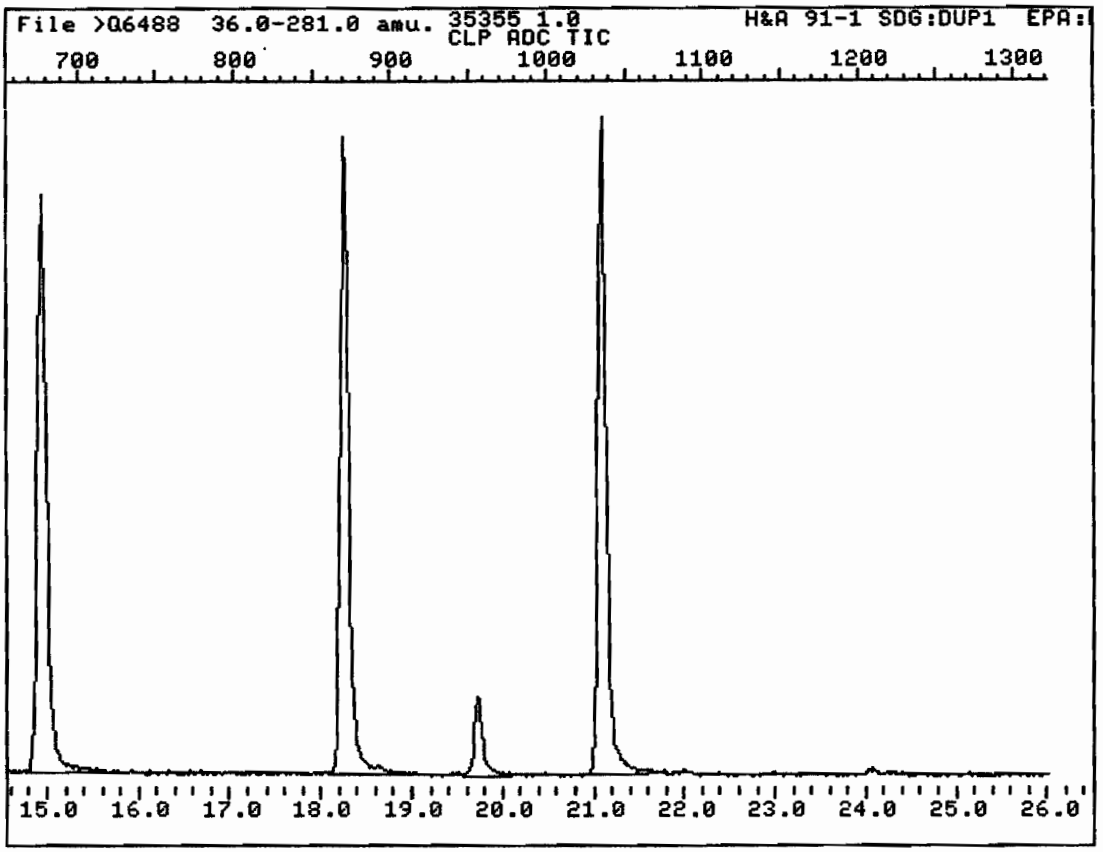
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} \star \text{Area Unknown}|}{|\text{Area Int Std}|} \star \text{Correction Factor}$$

11:28 AM THU., 31 AUG., 1995

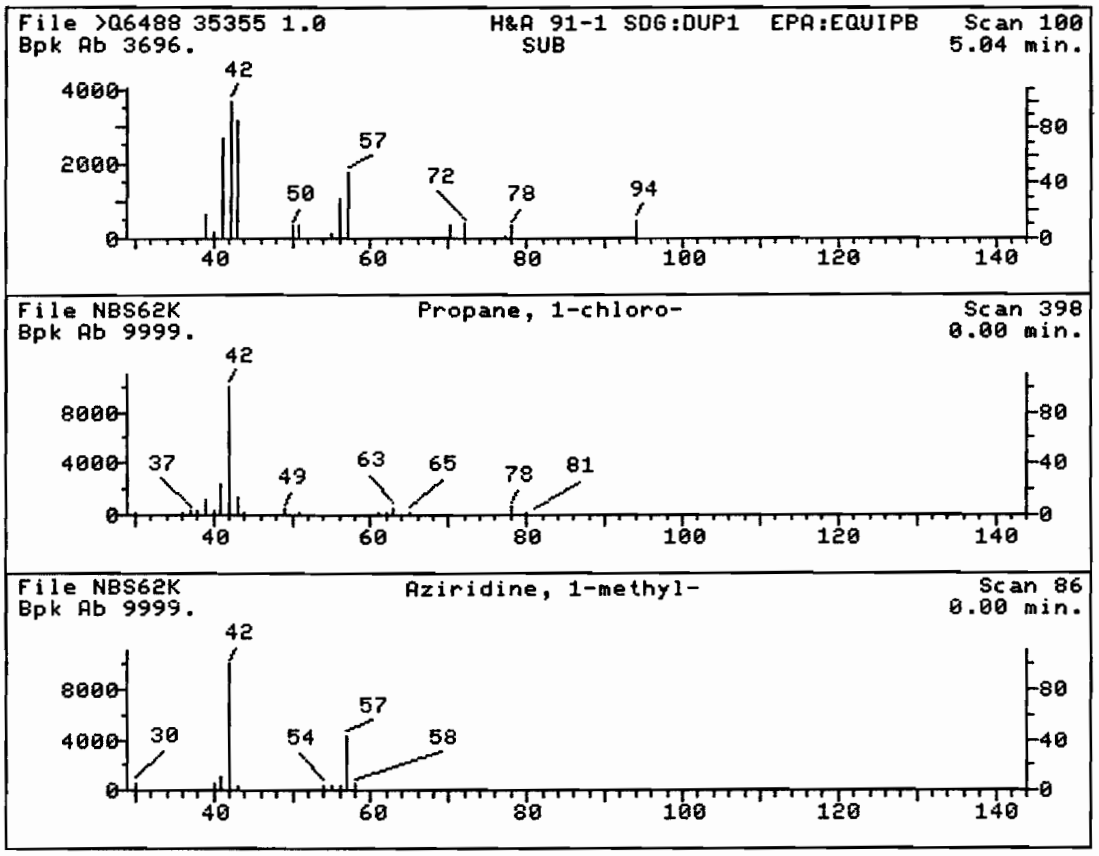




Instrument ID: 1 Analyzed on: 8/28/95 17:20



Instrument ID: 1 **Analyzed on: 8/28/95 17:20**



Instrument ID: 1 Analyzed on: 8/28/95 17:20
Result 1 in PBM results file: LQ6488
Retention Time: 5.04 Area: 164077 Tentative Conc: 5.00
The unknown area is 10.68% of the nearest internal standard

1. Propane, 1-chloro- 78 C3H7Cl
2. Aziridine, 1-methyl- 57 C3H7N

Sample file: >Q6488 Spectrum #: 100
Search speed: 1 Tilting option: N No. of ion ranges searched: 33

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	28*	540545	261	NBS62K	23	61	1	0	100	39	10	14
2.	25*	1072442	257	NBS62K	22	58	1	0	81	47	7	14

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35336

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6489

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	2.	J
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00087

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW1

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35336

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6489

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

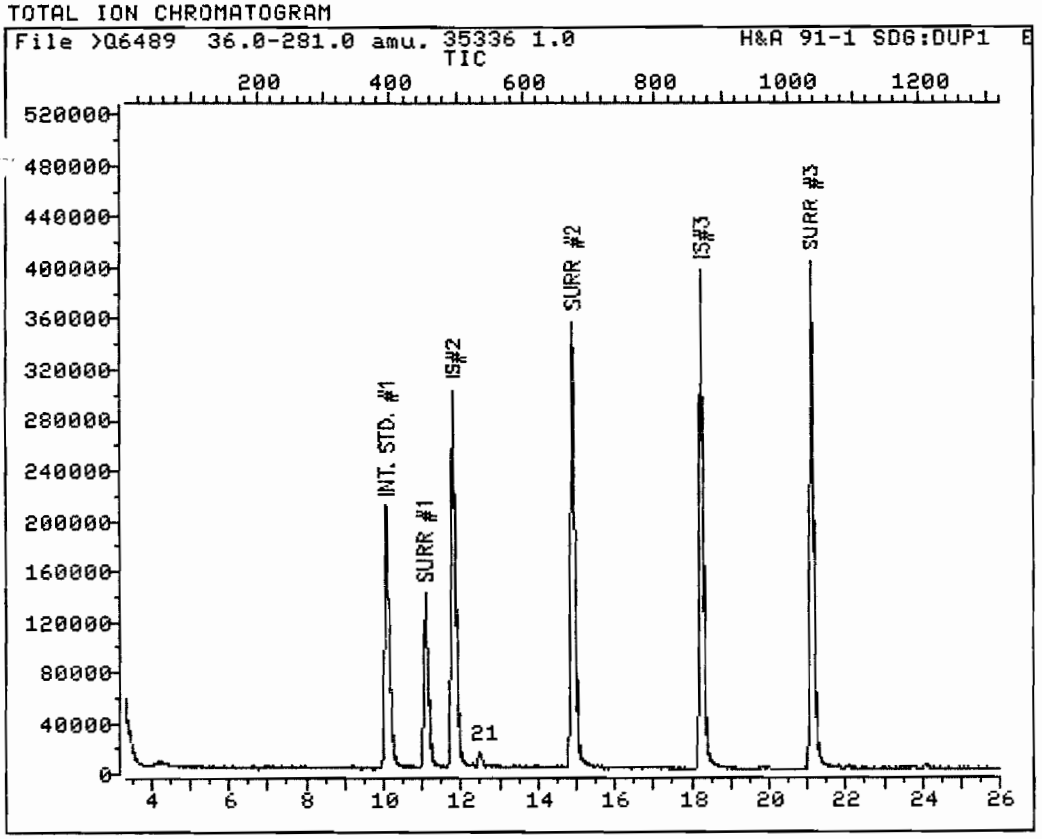
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 06:34
Output File: ^Q6489::D5 Injected at: 950828 17:59
Data File: >Q6489::D5 Dilution Factor: 1.00000
Name: 35336 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW1

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.08	128.0	215458	50.00	ppb	98
16)	1,2-Dichloroethane-d4	11.06	65.0	346290	45.97	ppb	92
17)	*1,4-Difluorobenzene	11.80	114.0	914192	50.00	ppb	84
21)	Trichloroethene	12.51	130.0	15378	1.67	ppb	91
29)	*Chlorobenzene-d5	18.24	117.0	819936	50.00	ppb	97
31)	Toluene-d8	14.91	98.0	837765	46.13	ppb	86
41)	Bromofluorobenzene	21.09	95.0	539999	48.42	ppb	89

* Compound is ISTD

TOTAL ION CHROMATOGRAM

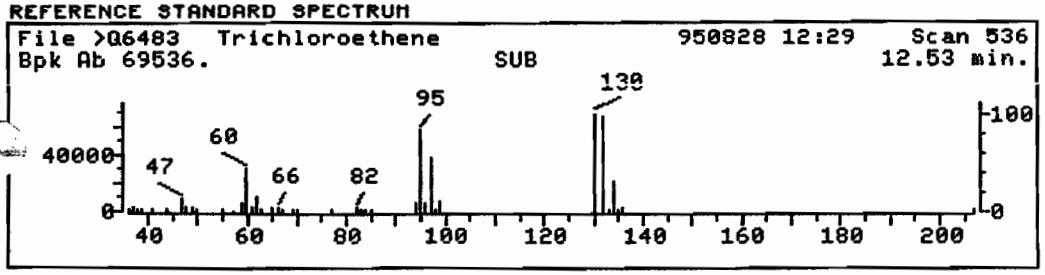


Data File: >Q6489::D5 Quant Output File: ^Q6489::D5
Name: 35336 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW1

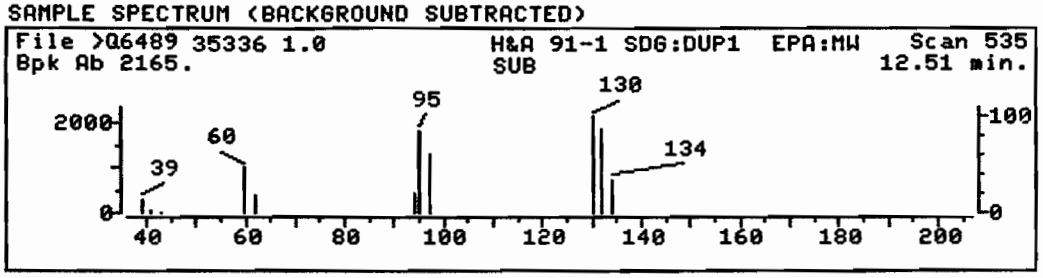
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

Operator ID: RODH
Quant Time : 950828 06:34
Injected at: 950828 17:59

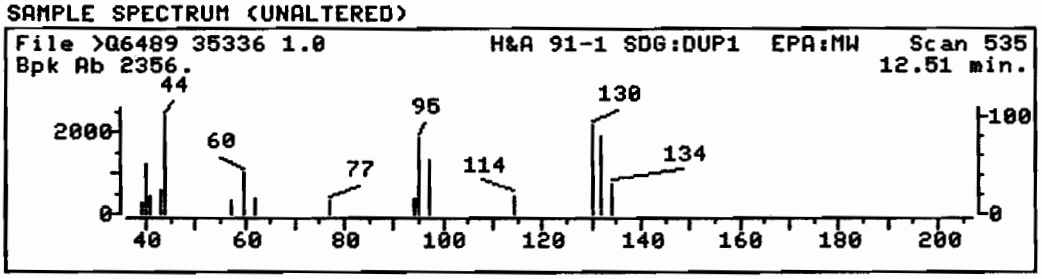
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6489::D5 Quant Output File: ^Q6489::D5
Name: 35336 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW1
Quant Time: 950828 06:34 Quant ID File: IDECLP::QT
Injected at: 950828 17:59 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 535
Retention Time: 12.51 min.
Quant Ion : 130.0
Area : 15378
Concentration : 1.67 ppb
q-value : 91

MS data file header from : >Q6489::D5

Sample: 35336 1.0 Operator: RODH 8/28/95 17:59
Misc : H&A 91-1 SDG:DUP1 EPA:MW1
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

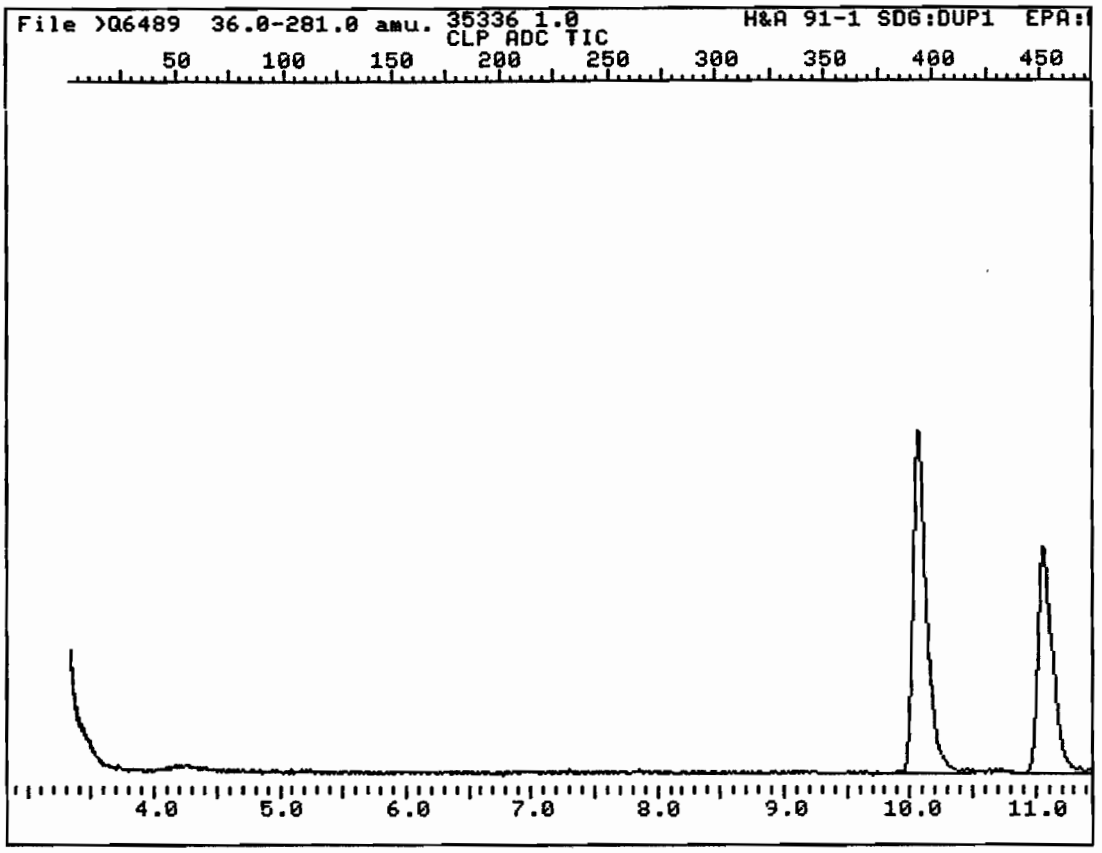
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1554787.	10.08	3.34 - 10.94
2	50.0	2189252.	11.80	10.94 - 15.02
3	50.0	2548448.	18.24	15.02 - 26.00

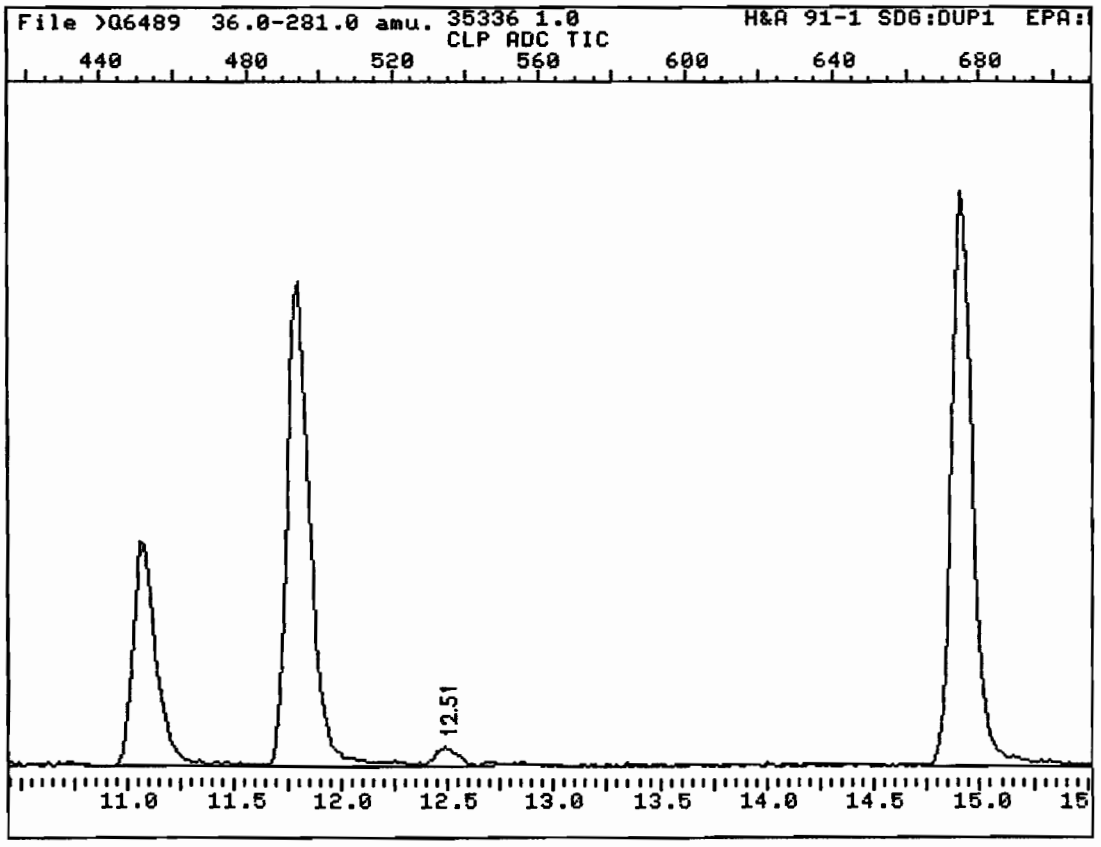
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

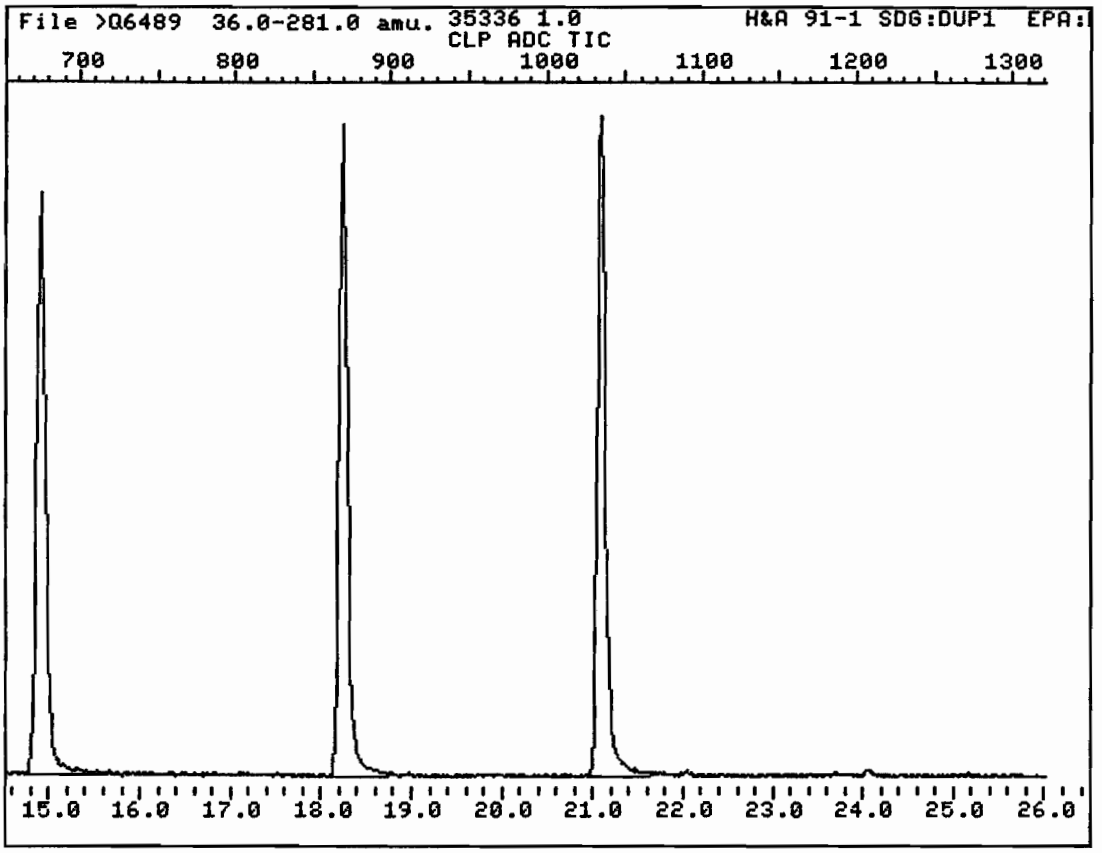
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} * \text{Area Unknown}|}{|\text{Area Int Std}|} * \text{Correction Factor}$$

11:36 AM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/28/95 17:59



Instrument ID: 1 Analyzed on: 8/28/95 17:59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35337

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: AZ470

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	2.	J
156-59-2	cis-1,2-Dichloroethene	27.	
71-55-6	1,1,1-Trichloroethane	1.	J
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	120.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00095

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW2

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35337

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: AZ470

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.			0.00	0.	
2.			0.00	0.	
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.					

00096

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ470.D
Acq On : 26 Aug 95 6:29 pm
Sample : 35337 1.0
Misc : HA 91-1 SDG:DUP1 EPA:MW2
Quant Time: Sep 7 7:50 1995

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sun Aug 27 10:23:41 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	8.98	128	357043	50.00 ug/l	0.04
17) 1,4-Difluorobenzene	11.72	114	1520379	50.00 ug/l	0.02
29) Chlorobenzene-d5	18.51	117	1159018	50.00 ug/l	0.00
System Monitoring Compounds					%Recovery
15) 1,2-Dichloroethane-d4	10.04	65	614407	50.40 ug/l	100.79%
31) Toluene-d8	15.43	98	1418012	51.58 ug/l	103.15%
41) Bromofluorobenzene	21.28	95	939002	50.73 ug/l	101.46%
Target Compounds					Qvalue
2) Chloromethane	0.00	50		Not Detected	
3) Vinyl chloride	0.00	62		Not Detected	
4) Chloroethane	0.00	64		Not Detected	
5) Bromomethane	0.00	94		Not Detected	
6) Acetone	0.00	43		Not Detected	
7) 1,1-Dichloroethene	0.00	96		Not Detected	
8) Methylene chloride	0.00	84		Not Detected	
9) Carbon disulfide	0.00	76		Not Detected	
10) trans-1,2-Dichloroethene	0.00	96		Not Detected	
11) 1,1-Dichloroethane	0.00	63		Not Detected	
12) 2-Butanone (MEK)	8.17	43	8336	1.67 ug/l #	86
13) cis-1,2-Dichloroethene	8.76	96	290518	26.92 ug/l	94
14) Chloroform	0.00	83		Not Detected	
16) 1,2-Dichloroethane	0.00	62		Not Detected	
18) 1,1,1-Trichloroethane	10.56	97	23112	1.41 ug/l	95
19) Carbon tetrachloride	0.00	117		Not Detected	
20) Benzene	0.00	78		Not Detected	
21) Trichloroethene	12.77	130	1453812	118.63 ug/l	99
22) 1,2-Dichloropropane	0.00	63		Not Detected	
23) Bromodichloromethane	0.00	83		Not Detected	
24) cis-1,3-Dichloropropene	0.00	75		Not Detected	
25) trans-1,3-Dichloropropene	0.00	75		Not Detected	
26) 1,1,2-Trichloroethane	0.00	97		Not Detected	
27) Dibromochloromethane	0.00	129		Not Detected	
28) Bromoform	0.00	173		Not Detected	
30) 4-Methyl-2-pentanone (MIB	0.00	43		Not Detected	
32) Toluene	0.00	92		Not Detected	
33) 2-Hexanone	0.00	43		Not Detected	
34) Tetrachloroethene	0.00	164		Not Detected	
35) Chlorobenzene	0.00	112		Not Detected	
36) Ethylbenzene	0.00	91		Not Detected	
37) (m+p)Xylene	0.00	91		Not Detected	
38) o-Xylene	0.00	91		Not Detected	
39) Styrene	0.00	104		Not Detected	

00097

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ470.D
Acq On : 26 Aug 95 6:29 pm
Sample : 35337 1.0
Misc : HA 91-1 SDG:DUP1 EPA:MW2
Quant Time: Sep 7 7:50 1995

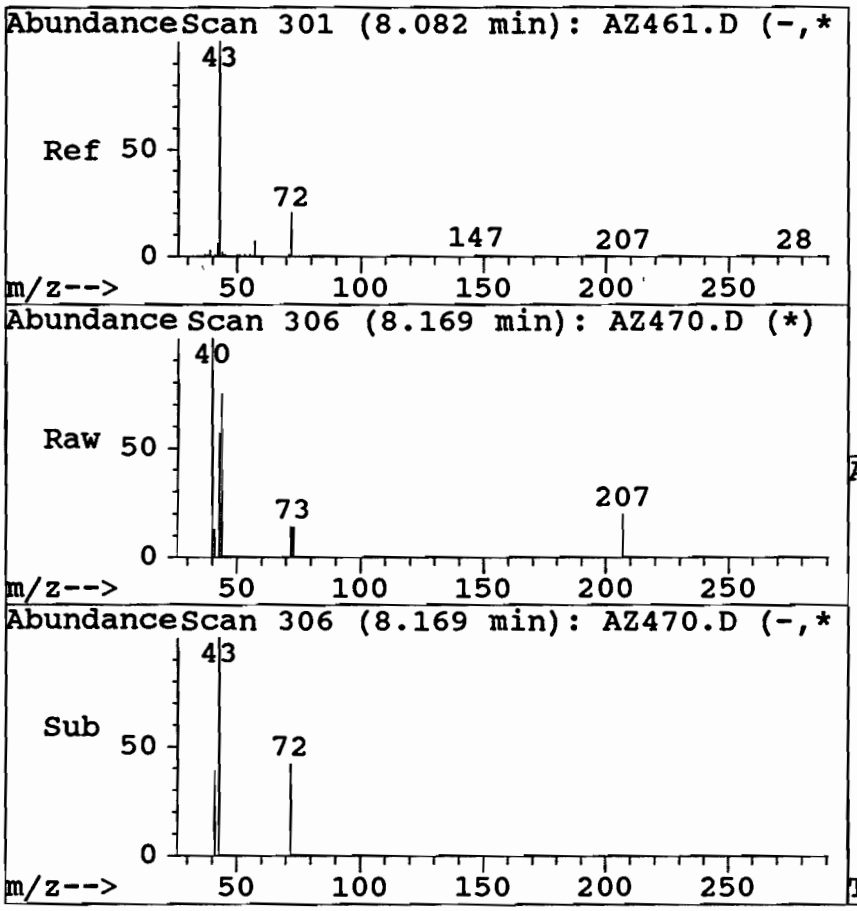
Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sun Aug 27 10:23:41 1995
Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	

00098

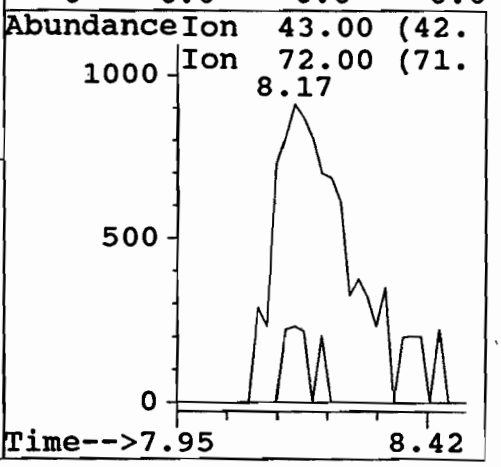
(#) = qualifier out of range (m) = manual integration

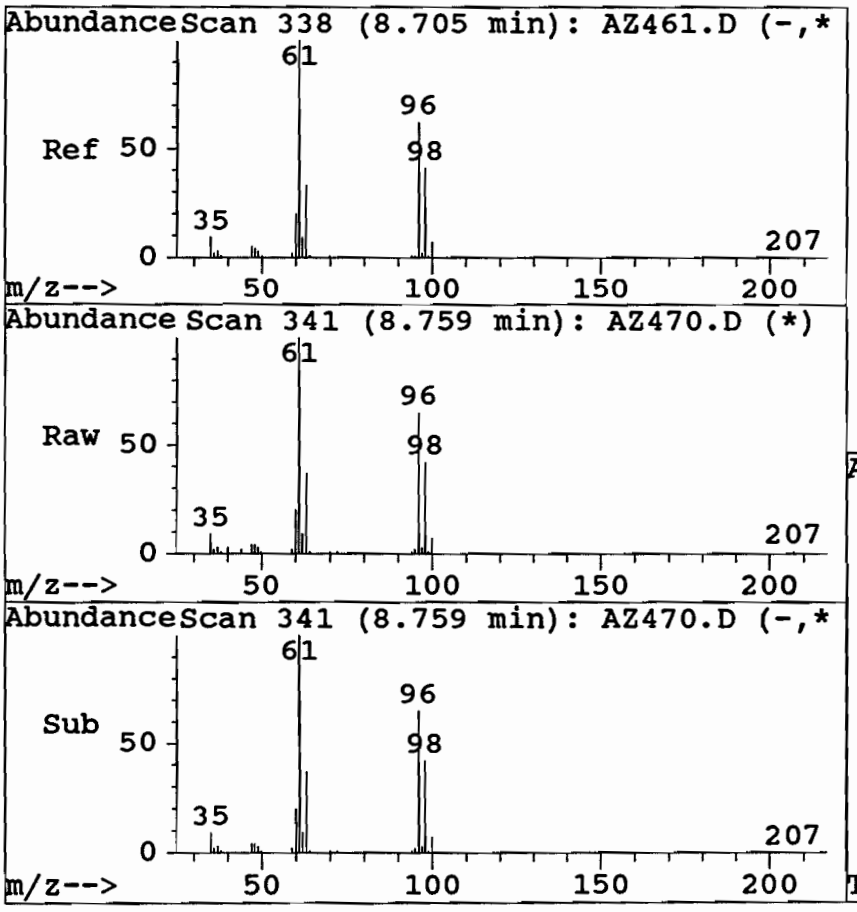


#12
2-Butanone (MEK)
Concen: 1.67 ug/l
RT: 8.17 min Scan# 306
Delta R.T. 0.09 min
Lab File: AZ470.D
Acq: 26 Aug 95 6:29 pm

Tgt Ion:43 Resp: 8336

Ion	Ratio	Lower	Upper
43	100		
72	25.3	13.4	24.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

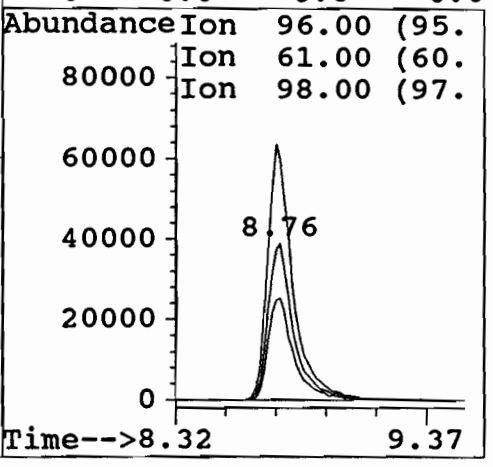




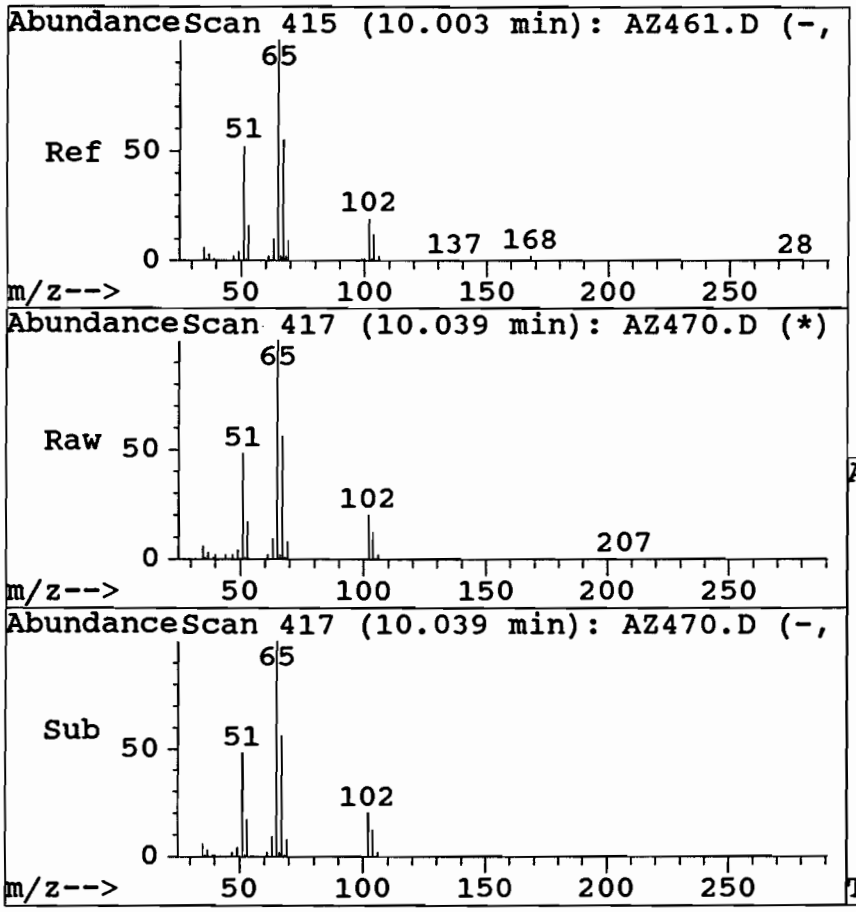
#13
cis-1,2-Dichloroethene
Concen: 26.92 ug/l
RT: 8.76 min Scan# 341
Delta R.T. 0.05 min
Lab File: AZ470.D
Acq: 26 Aug 95 6:29 pm

Tgt Ion:96 Resp: 290518

Ion	Ratio	Lower	Upper
96	100		
61	154.3	115.0	213.5
98	65.0	46.8	86.9
0	0.0	0.0	0.0



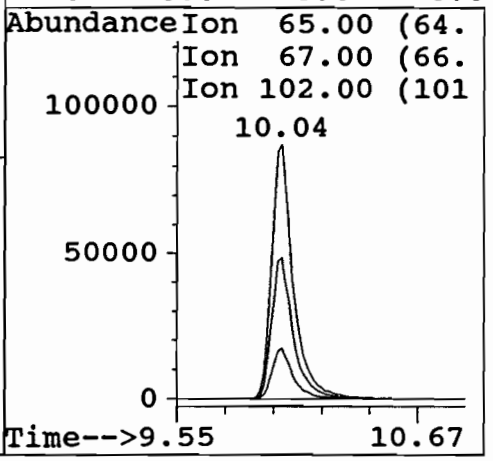
00099

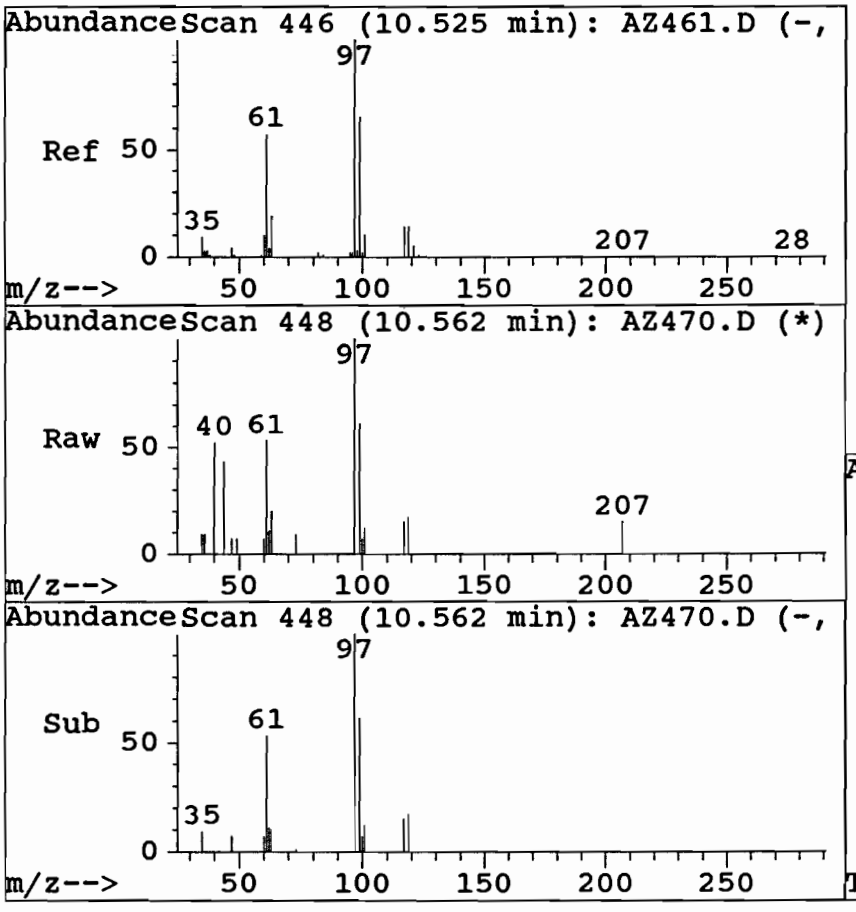


#15
1,2-Dichloroethane-d4
Concen: 50.40 ug/l
RT: 10.04 min Scan# 417
Delta R.T. 0.04 min
Lab File: AZ470.D
Acq: 26 Aug 95 6:29 pm

Tgt Ion:65 Resp: 614407

Ion	Ratio	Lower	Upper
65	100		
67	55.9	43.9	65.8
102	19.8	15.8	23.7
0	0.0	0.0	0.0

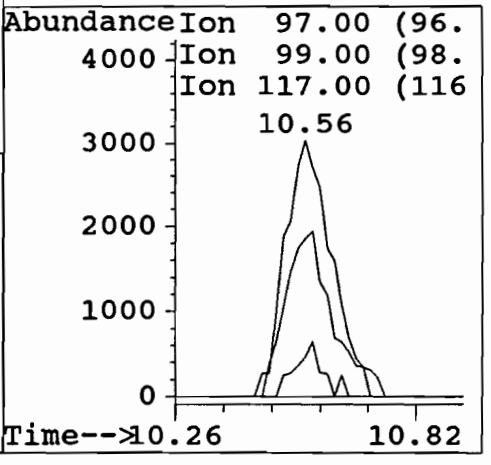




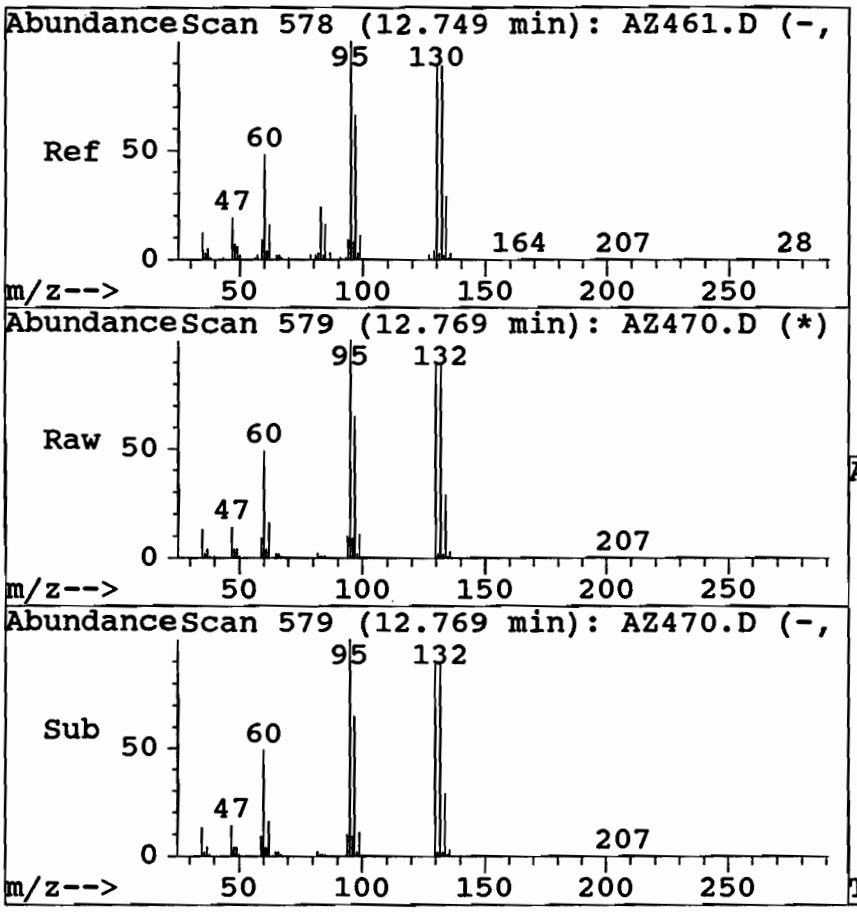
#18
1,1,1-Trichloroethane
Concen: 1.41 ug/l
RT: 10.56 min Scan# 448
Delta R.T. 0.04 min
Lab File: AZ470.D
Acq: 26 Aug 95 6:29 pm

Tgt Ion:97 Resp: 23112

Ion	Ratio	Lower	Upper
97	100		
99	61.3	46.4	86.1
117	15.3	10.4	19.3
0	0.0	0.0	0.0



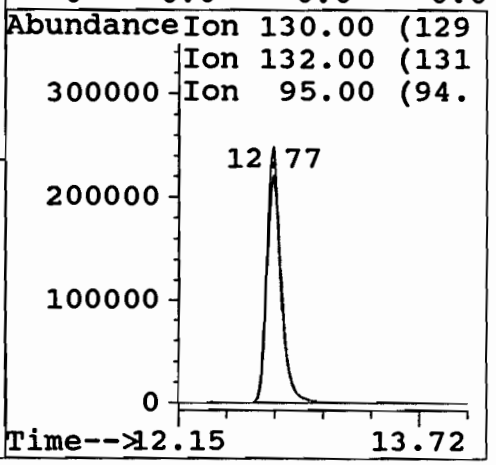
00100

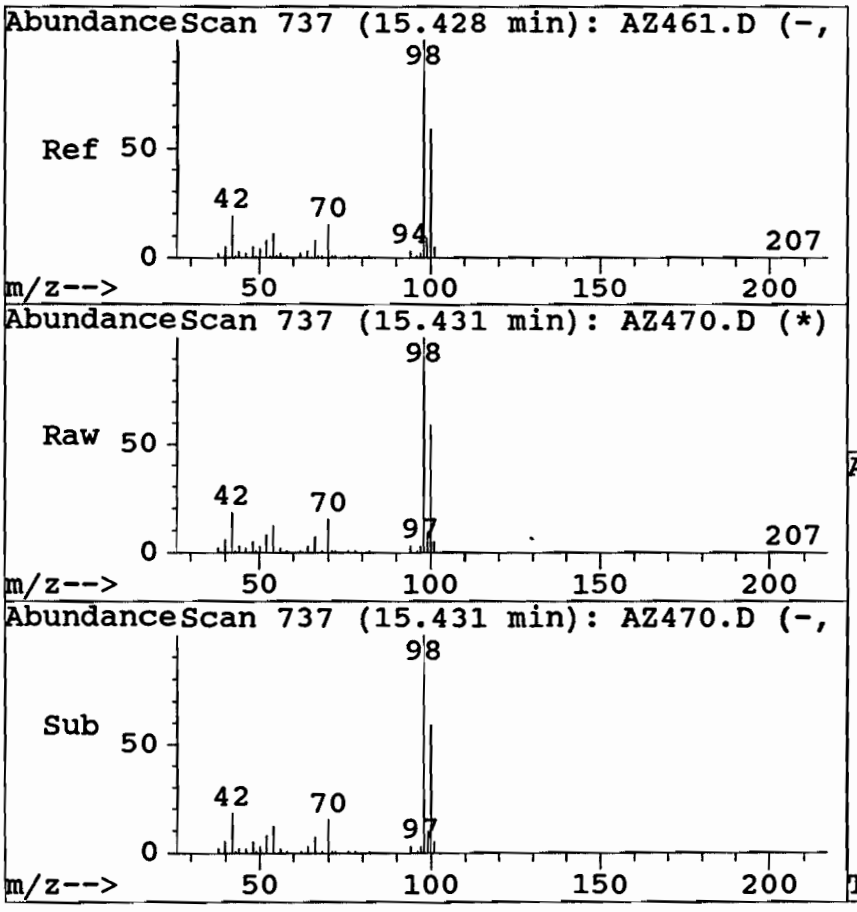


#21
Trichloroethene
Concen: 118.63 ug/l
RT: 12.77 min Scan# 579
Delta R.T. 0.02 min
Lab File: AZ470.D
Acq: 26 Aug 95 6:29 pm

Tgt Ion:130 Resp: 1453812

Ion	Ratio	Lower	Upper
130	100		
132	100.1	78.7	118.0
95	112.4	89.6	134.3
0	0.0	0.0	0.0

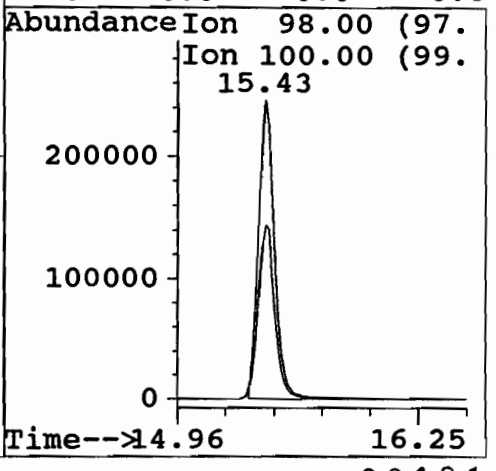




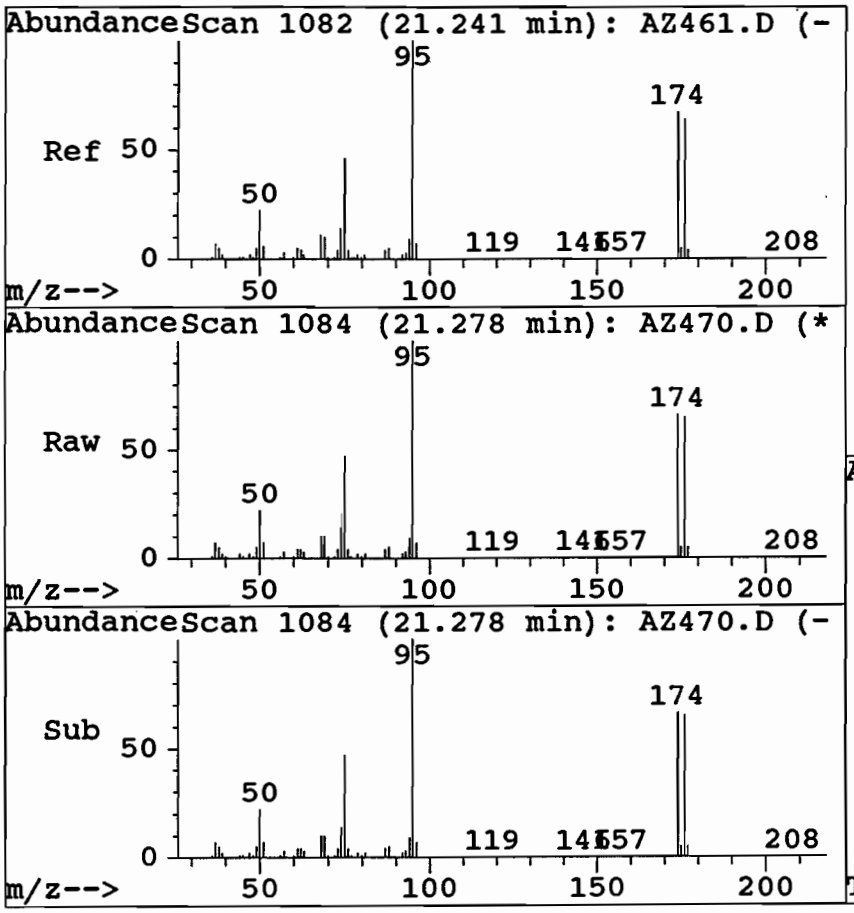
#31
Toluene-d8
Concen: 51.58 ug/l
RT: 15.43 min Scan# 737
Delta R.T. 0.00 min
Lab File: AZ470.D
Acq: 26 Aug 95 6:29 pm

Tgt Ion:98 Resp: 1418012

Ion	Ratio	Lower	Upper
98	100		
100	58.6	47.0	70.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0



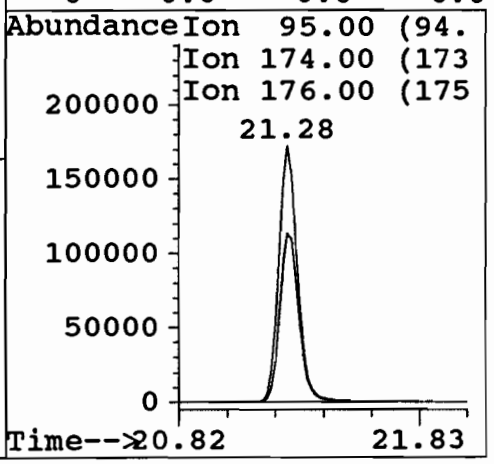
00101



#41
Bromofluorobenzene
Concen: 50.73 ug/l
RT: 21.28 min Scan# 1084
Delta R.T. 0.04 min
Lab File: AZ470.D
Acq: 26 Aug 95 6:29 pm

Tgt Ion:95 Resp: 939002

Ion	Ratio	Lower	Upper
95	100		
174	66.1	47.2	87.5
176	65.2	45.3	84.0
0	0.0	0.0	0.0



00102

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\AZ470.D
Acq On : ~~26 Aug 95~~ 6:29 pm 28 Aug 95
Sample : 35337 1.0
Misc : HA 91-1 SDG:DUP1 EPA:MW2 DL 9/5/95

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Library : NBS54K.L

No Library Search Compounds Detected

00103

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW201D

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35342

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6499

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	500.	U
74-83-9	Bromomethane	500.	U
75-01-4	Vinyl chloride	500.	U
75-00-3	Chloroethane	500.	U
75-09-2	Methylene chloride	500.	U
67-64-1	Acetone	180.	J
75-15-0	Carbon Disulfide	500.	U
75-35-4	1,1-Dichloroethene	500.	U
75-34-3	1,1-Dichloroethane	500.	U
156-60-5	trans-1,2-Dichloroethene	500.	U
67-66-3	Chloroform	500.	U
107-06-2	1,2-Dichloroethane	500.	U
78-93-3	2-Butanone	500.	U
156-59-2	cis-1,2-Dichloroethene	1500.	
71-55-6	1,1,1-Trichloroethane	660.	
56-23-5	Carbon tetrachloride	500.	U
75-27-4	Bromodichloromethane	500.	U
78-87-5	1,2-Dichloropropane	500.	U
10061-01-5	cis-1,3-Dichloropropene	500.	U
79-01-6	Trichloroethene	7700.	
124-48-1	Dibromochloromethane	500.	U
79-00-5	1,1,2-Trichloroethane	500.	U
71-43-2	Benzene	500.	U
50061-02-6	trans-1,3-Dichloropropene	500.	U
75-25-2	Bromoform	500.	U
108-10-1	4-Methyl-2-Pentanone	500.	U
591-78-6	2-Hexanone	500.	U
127-18-4	Tetrachloroethene	140.	J
79-34-5	1,1,2,2-Tetrachloroethane	500.	U
108-88-3	Toluene	500.	U
108-90-7	Chlorobenzene	500.	U
100-41-4	Ethylbenzene	500.	U
100-42-5	Styrene	500.	U
108-38-3	(m+p)Xylene	500.	U
95-47-6	o-Xylene	500.	U

00104

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW201D

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35342

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6499

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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26.					
27.					
28.					
29.					
30.					

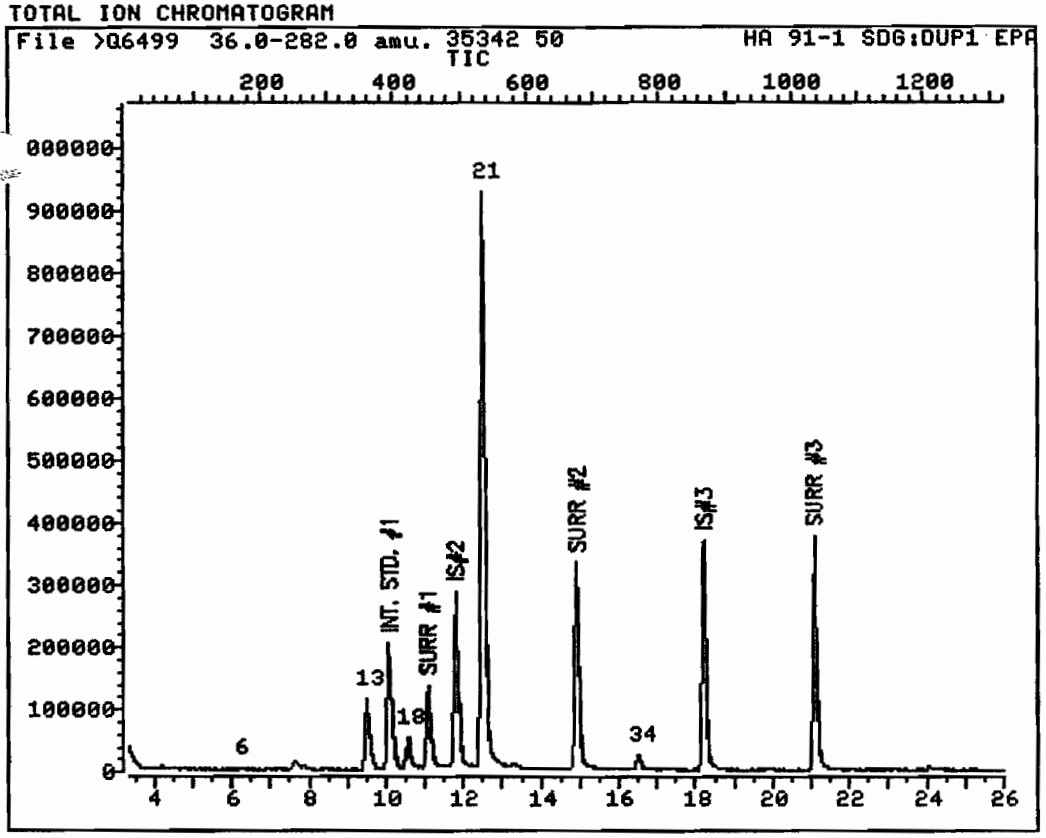
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 20:00
Output File: ^Q6499::D5 Injected at: 950829 02:07
Data File: >Q6499::D5 Dilution Factor: 1.00000
Name: 35342 50 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW201D

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.07	128.0	203851	50.00	ppb	98
6)	Acetone	6.19	43.0	11709	3.58	ppb	76
13)	cis-1,2-Dichloroethene	9.48	96.0	194231	29.15	ppb	90
16)	1,2-Dichloroethane-d4	11.06	65.0	332441	47.84	ppb	91
17)	*1,4-Difluorobenzene	11.79	114.0	849660	50.00	ppb	83
18)	1,1,1-Trichloroethane	10.53	97.0	140682	13.25	ppb	95
21)	Trichloroethene	12.49	130.0	1310667	152.98	ppb	98
29)	*Chlorobenzene-d5	18.23	117.0	772885	50.00	ppb	97
31)	Toluene-d8	14.91	98.0	785686	49.01	ppb	88
34)	Tetrachloroethene	16.51	164.0	20210	2.80	ppb	90
41)	Bromofluorobenzene	21.06	95.0	507611	50.65	ppb	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM

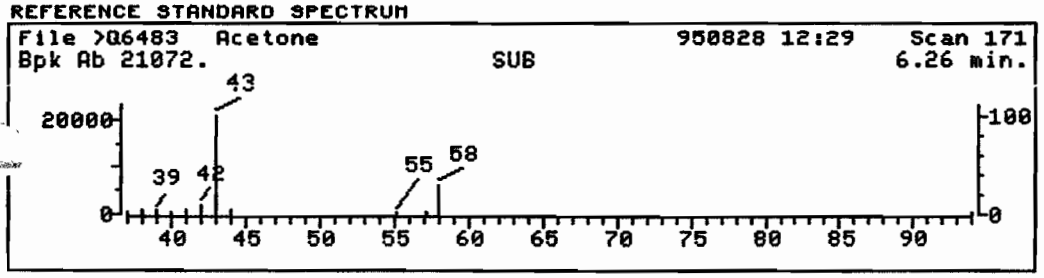


Data File: >Q6499::D5 Quant Output File: ^Q6499::D5
Name: 35342 50 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW201D

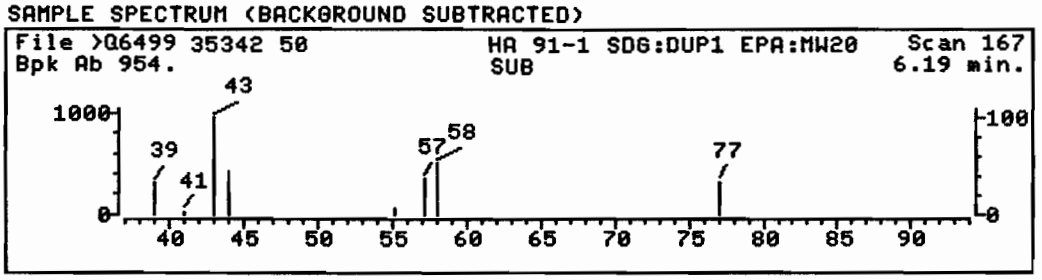
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 20:00
Injected at: 950829 02:07

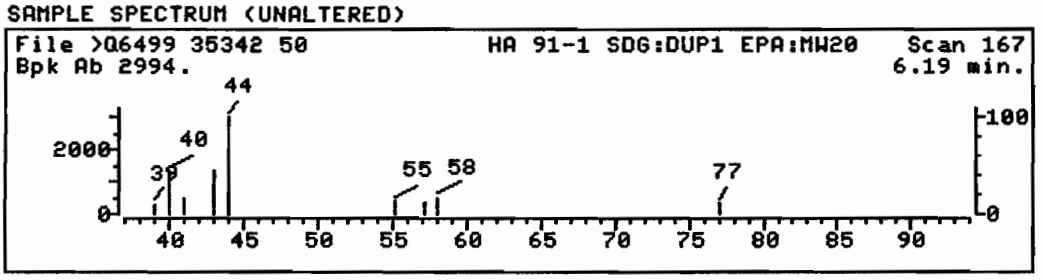
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



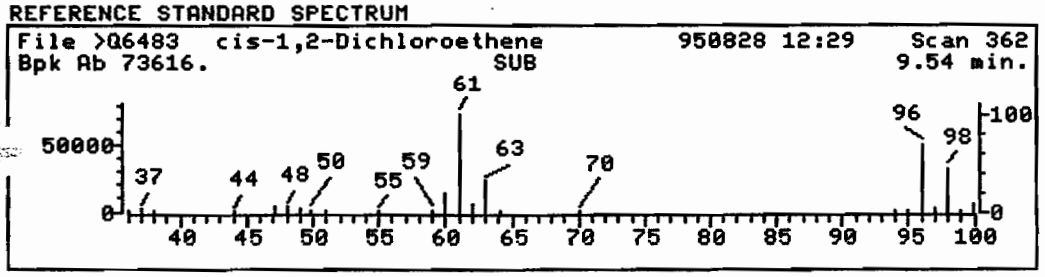
SAMPLE SPECTRUM (UNALTERED)



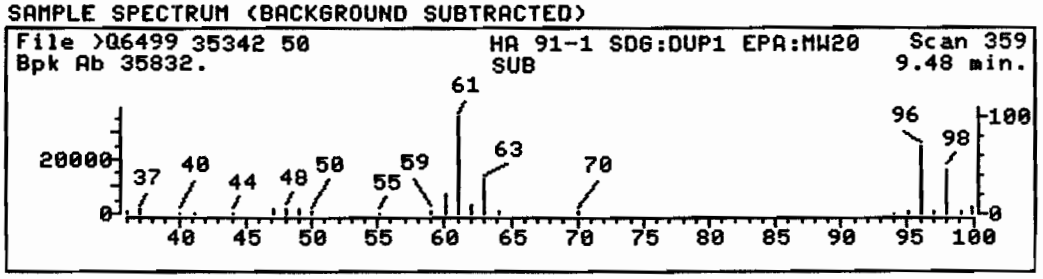
Data File: >Q6499::D5 Quant Output File: ^Q6499::D5
Name: 35342 50 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW201D
Quant Time: 950828 20:00 Quant ID File: IDECLP::QT
Injected at: 950829 02:07 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 6
Compound Name : Acetone
Scan Number : 167
Retention Time: 6.19 min.
Quant Ion : 43.0
Area : 11709
Concentration : 3.58 ppb
q-value : 76

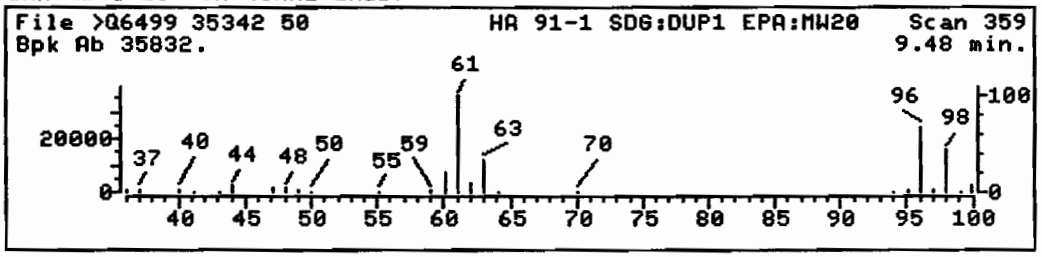
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



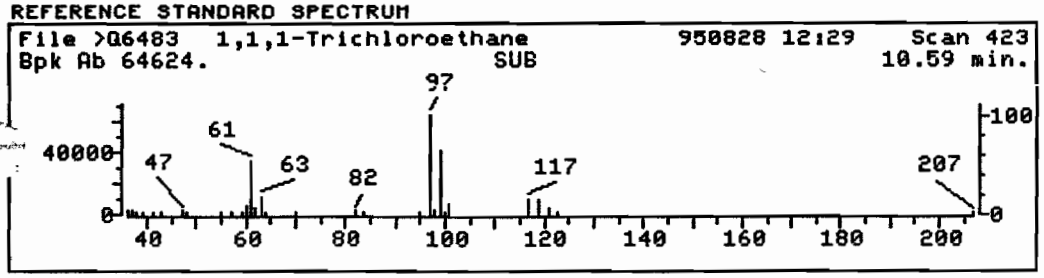
SAMPLE SPECTRUM (UNALTERED)



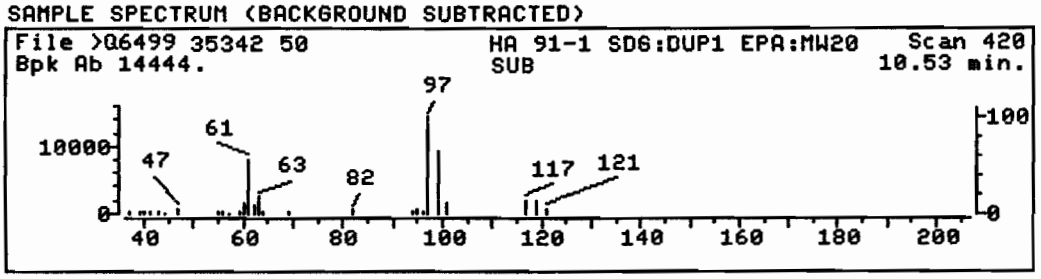
Data File: >Q6499::D5 Quant Output File: ^Q6499::D5
Name: 35342 50 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW201D
Quant Time: 950828 20:00 Quant ID File: IDECLP::QT
Injected at: 950829 02:07 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 359
Retention Time: 9.48 min.
Quant Ion : 96.0
Area : 194231
Concentration : 29.15 ppb
q-value : 90

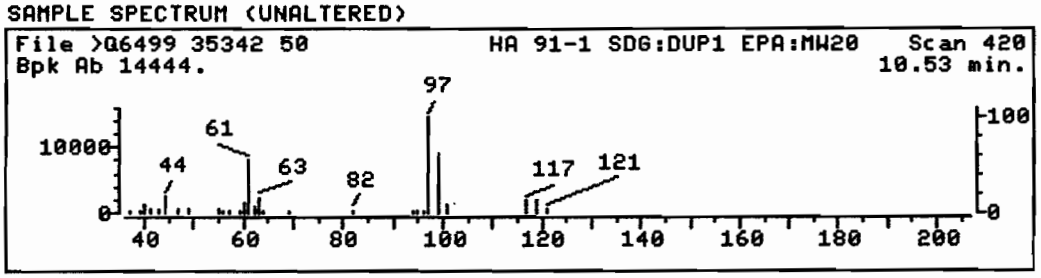
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



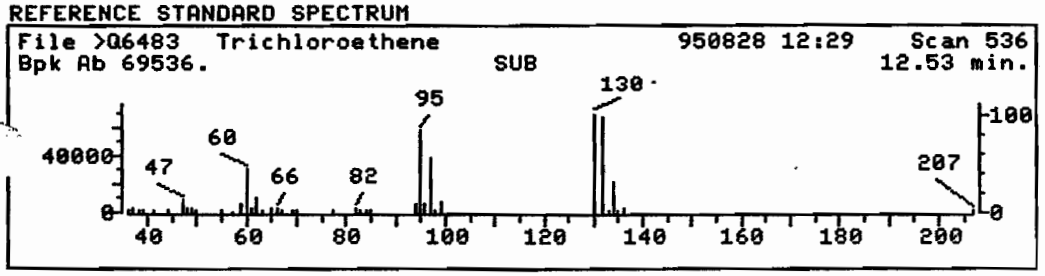
SAMPLE SPECTRUM (UNALTERED)



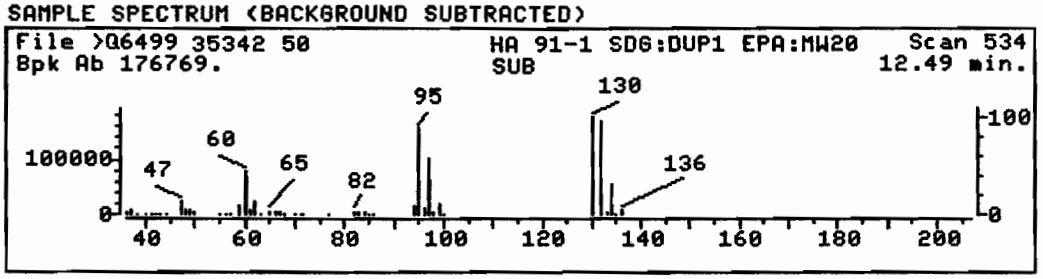
Data File: >Q6499::D5 Quant Output File: ^Q6499::D5
Name: 35342 50 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW201D
Quant Time: 950828 20:00 Quant ID File: IDECLP::QT
Injected at: 950829 02:07 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 420
Retention Time: 10.53 min.
Quant Ion : 97.0
Area : 140682
Concentration : 13.25 ppb
q-value : 95

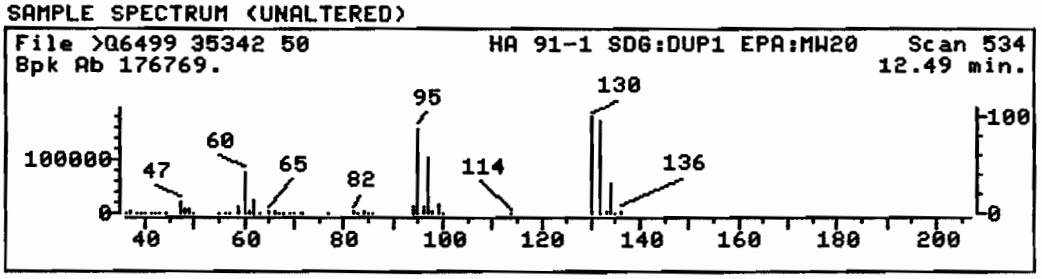
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



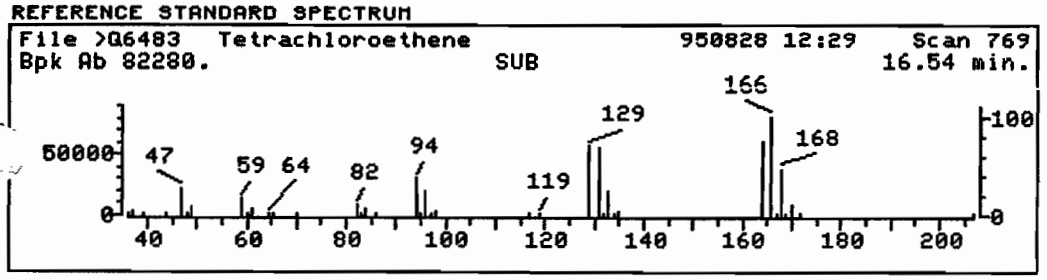
SAMPLE SPECTRUM (UNALTERED)



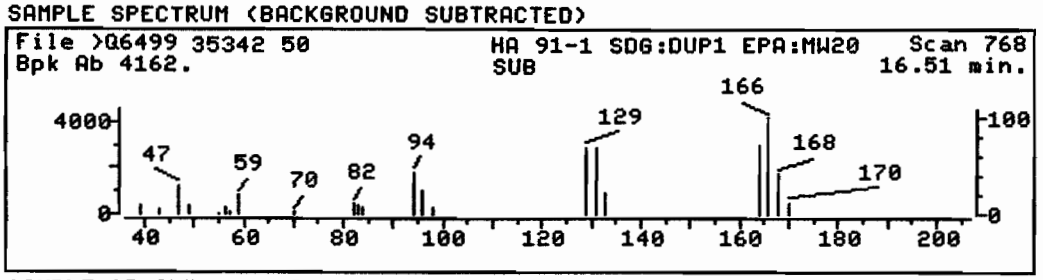
Data File: >Q6499::D5 Quant Output File: ^Q6499::D5
Name: 35342 50 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW201D
Quant Time: 950828 20:00 Quant ID File: IDECLP::QT
Injected at: 950829 02:07 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 534
Retention Time: 12.49 min.
Quant Ion : 130.0
Area : 1310667
Concentration : 152.98 ppb
q-value : 98

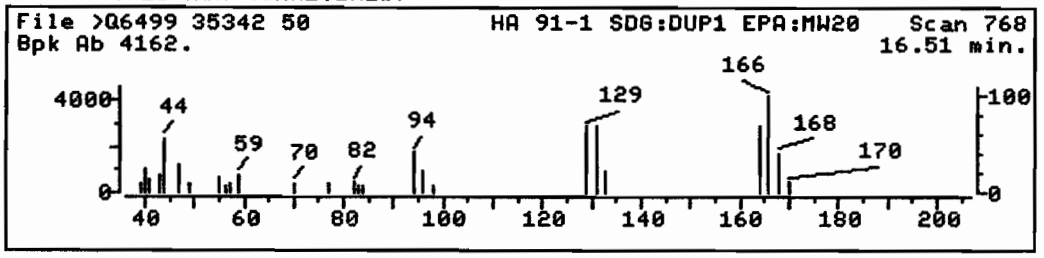
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6499::D5 Quant Output File: ^Q6499::D5
Name: 35342 50 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW201D
Quant Time: 950828 20:00 Quant ID File: IDECLP::QT
Injected at: 950829 02:07 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 34
Compound Name : Tetrachloroethene
Scan Number : 768
Retention Time: 16.51 min.
Quant Ion : 164.0
Area : 20210
Concentration : 2.80 ppb
q-value : 90

MS data file header from : >Q6499::D5

Sample: 35342 50 Operator: RODH 8/29/95 2:07
Misc : HA 91-1 SDG:DUP1 EPA:MW201D
. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 5 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

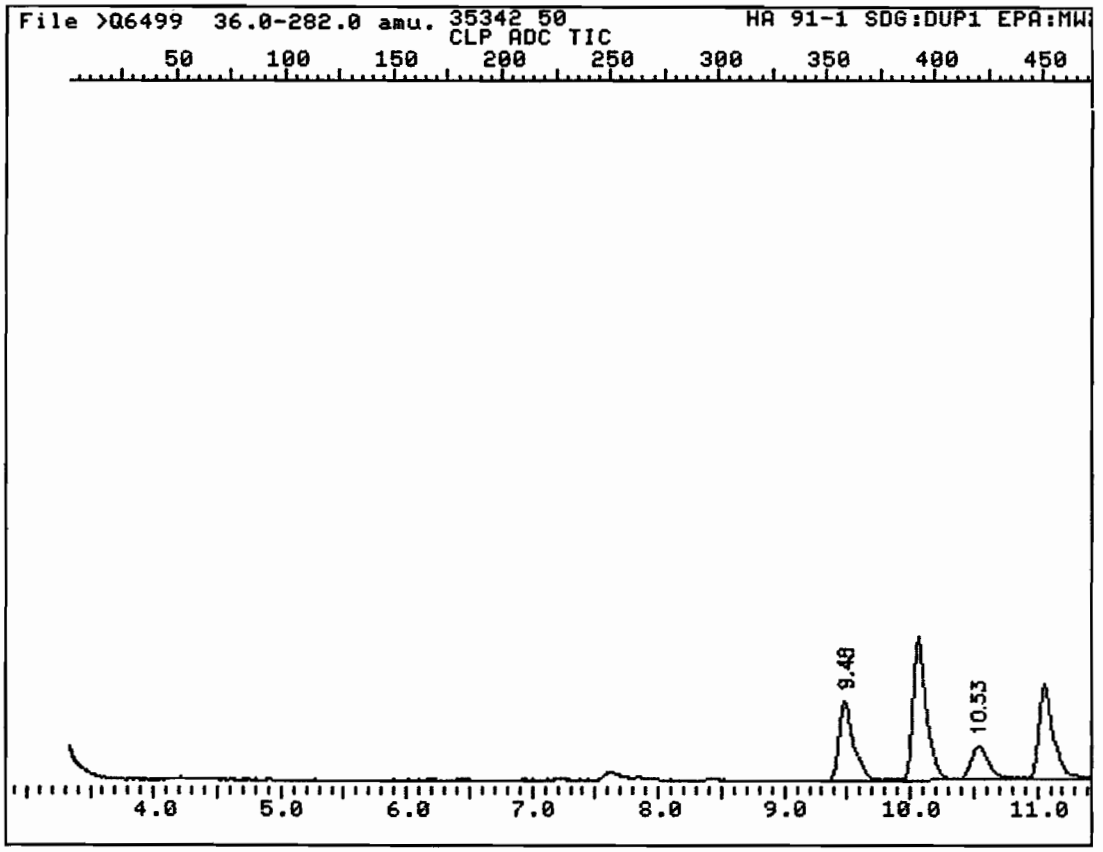
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1458848.	10.07	3.34 - 10.93
2	50.0	2062877.	11.79	10.93 - 15.01
3	50.0	2373453.	18.23	15.01 - 26.01

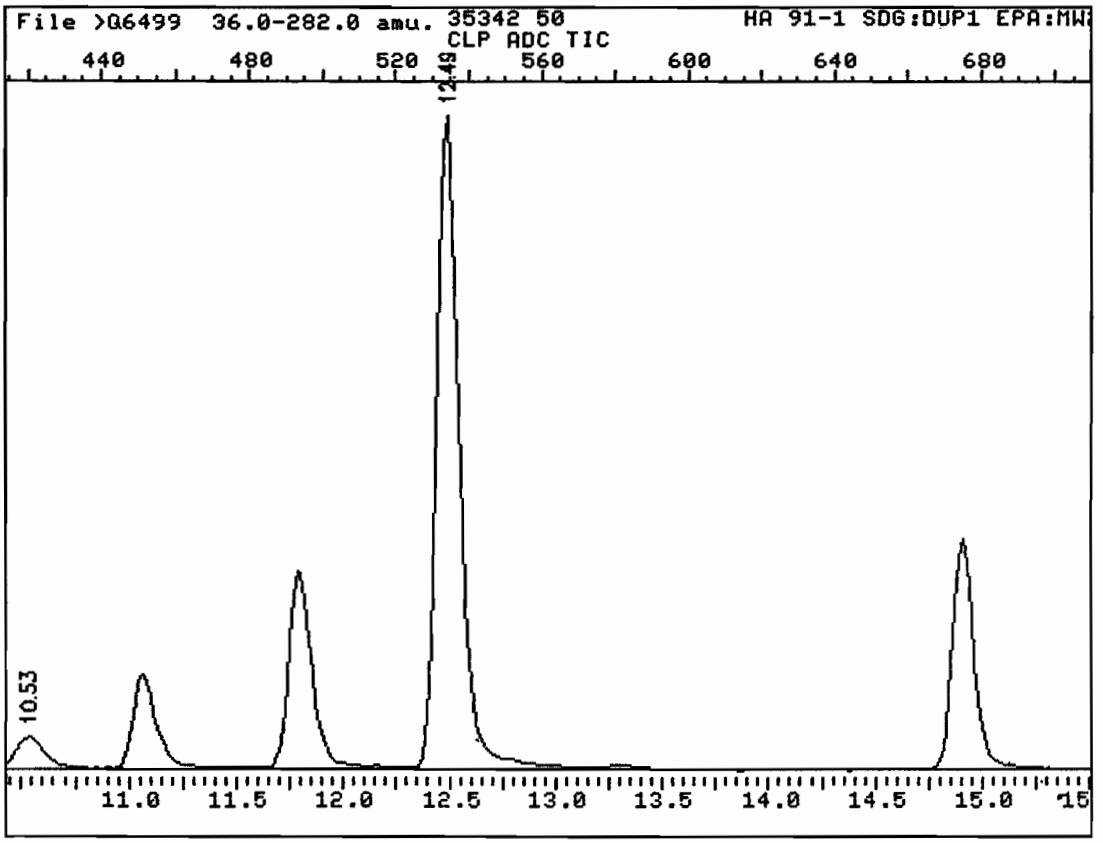
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = DL 9/5/95 ~~1.00~~ 50.0

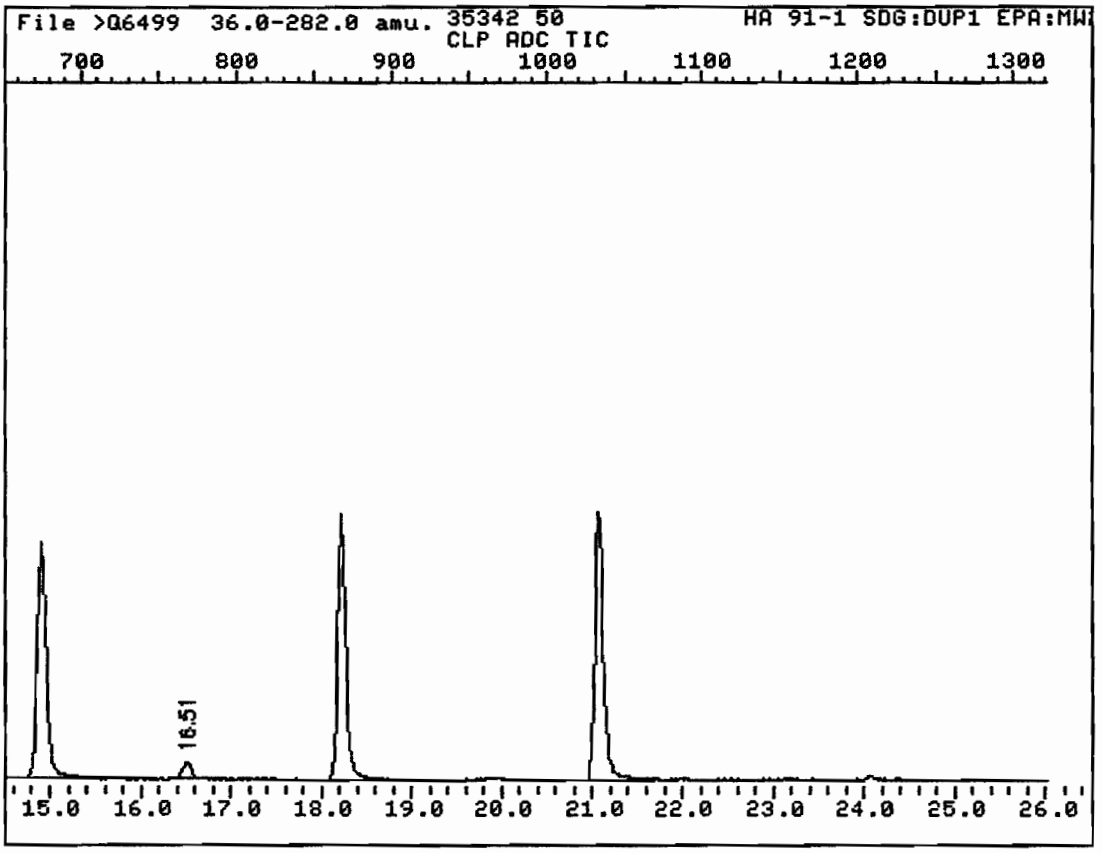
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:13 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 2:07



Instrument ID: 1 Analyzed on: 8/29/95 2:07

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW202

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35343

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6500

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	1.	J
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	7.	J
71-55-6	1,1,1-Trichloroethane	4.	J
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	120.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00116

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW202

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35343

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6500

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

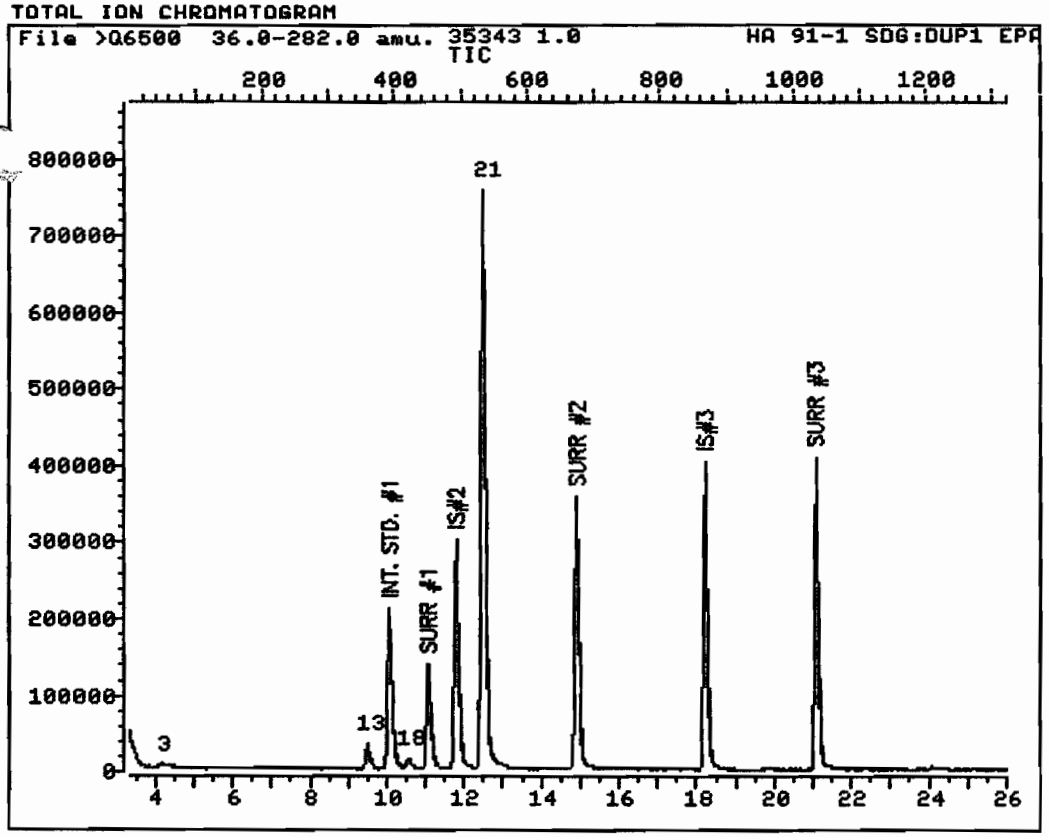
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 20:02
Output File: ^Q6500::D5 Injected at: 950829 02:41
Data File: >Q6500::D5 Dilution Factor: 1.00000
Name: 35343 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW202

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.07	128.0	215975	50.00	ppb	98
3)	Vinyl chloride	4.14	62.0	5425	1.01	ppb	81
13)	cis-1,2-Dichloroethene	9.48	96.0	51262	7.26	ppb	88
16)	1,2-Dichloroethane-d4	11.06	65.0	349943	47.53	ppb	91
17)	*1,4-Difluorobenzene	11.79	114.0	902437	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.53	97.0	40216	3.57	ppb	95
21)	Trichloroethene	12.49	130.0	1078846	118.56	ppb	96
29)	*Chlorobenzene-d5	18.23	117.0	836083	50.00	ppb	94
31)	Toluene-d8	14.89	98.0	845508	48.76	ppb	86
41)	Bromofluorobenzene	21.06	95.0	544485	50.22	ppb	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM

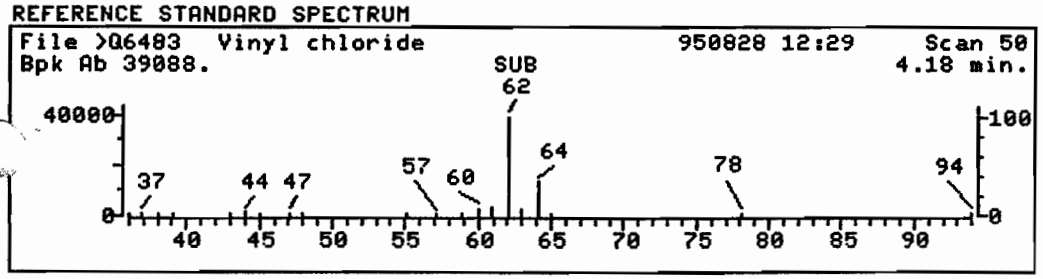


Data File: >Q6500::D5 Quant Output File: ^Q6500::D5
Name: 35343 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW202

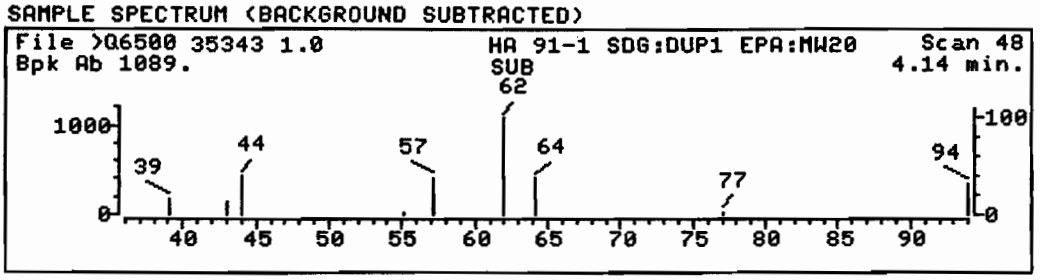
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 20:02
Injected at: 950829 02:41

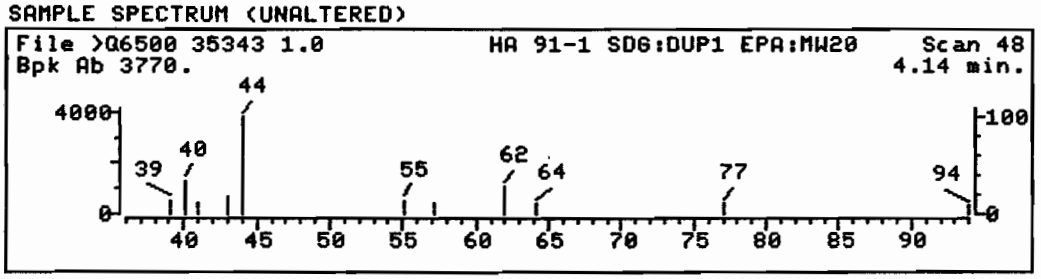
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



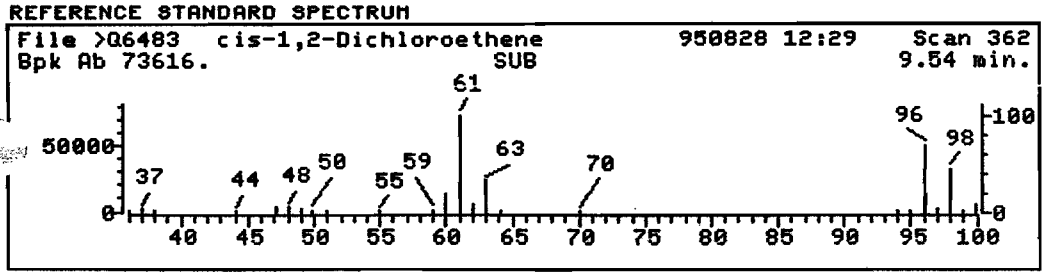
SAMPLE SPECTRUM (UNALTERED)



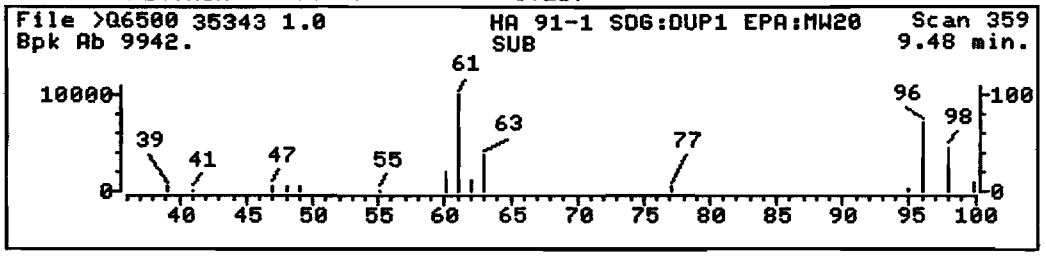
Data File: >Q6500::D5 Quant Output File: ^Q6500::D5
Name: 35343 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW202
Quant Time: 950828 20:02 Quant ID File: IDECLP::QT
Injected at: 950829 02:41 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 3
Compound Name : Vinyl chloride
Scan Number : 48
Retention Time: 4.14 min.
Quant Ion : 62.0
Area : 5425
Concentration : 1.01 ppb
q-value : 81

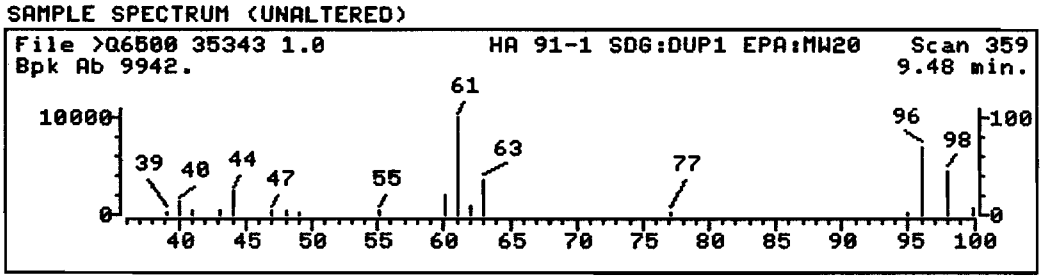
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



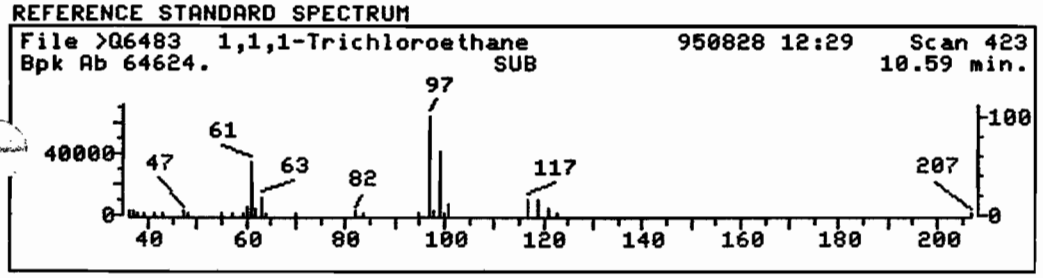
SAMPLE SPECTRUM (UNALTERED)



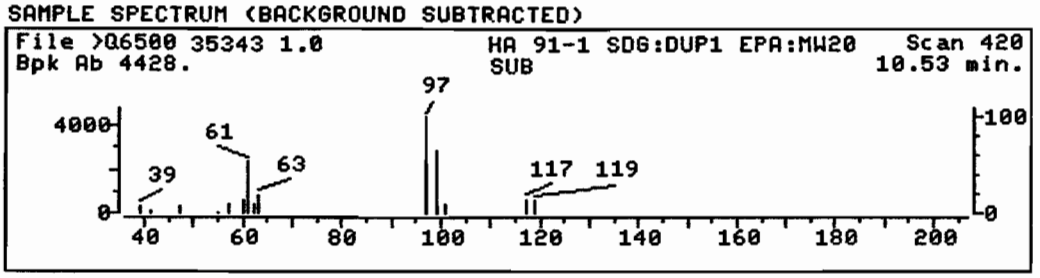
Data File: >Q6500::D5 Quant Output File: ^Q6500::D5
Name: 35343 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW202
Quant Time: 950828 20:02 Quant ID File: IDECLP::QT
Injected at: 950829 02:41 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 359
Retention Time: 9.48 min.
Quant Ion : 96.0
Area : 51262
Concentration : 7.26 ppb
q-value : 88

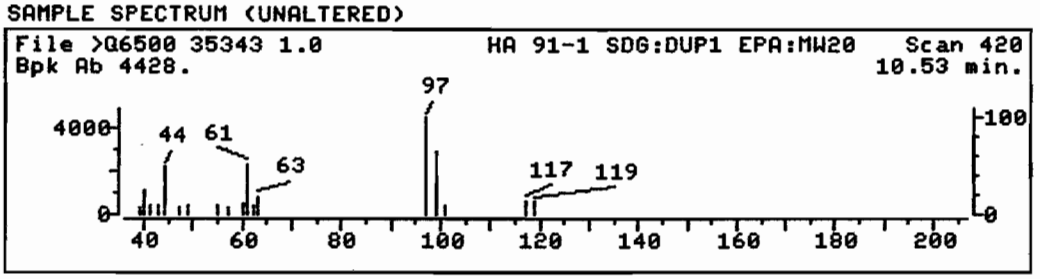
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



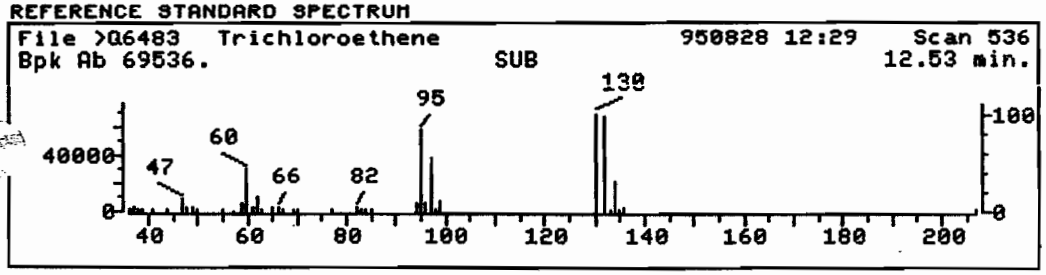
SAMPLE SPECTRUM (UNALTERED)



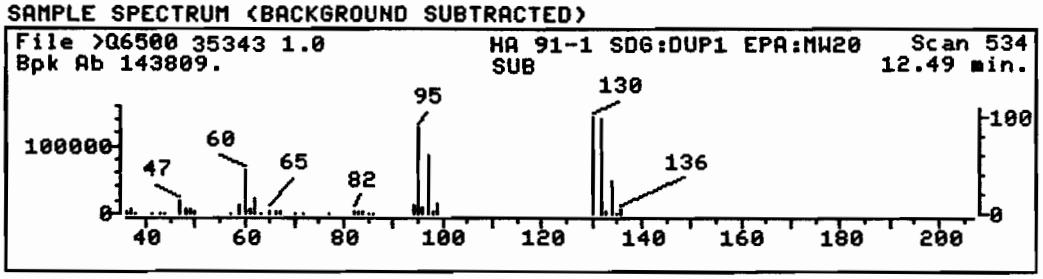
Data File: >Q6500::D5 Quant Output File: ^Q6500::D5
Name: 35343 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW202
Quant Time: 950828 20:02 Quant ID File: IDECLP::QT
Injected at: 950829 02:41 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 420
Retention Time: 10.53 min.
Quant Ion : 97.0
Area : 40216
Concentration : 3.57 ppb
q-value : 95

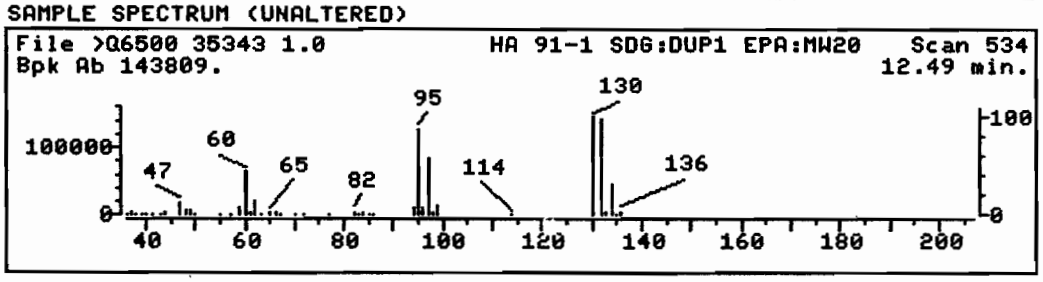
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6500::D5 Quant Output File: ^Q6500::D5
Name: 35343 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW202
Quant Time: 950828 20:02 Quant ID File: IDECLP::QT
Injected at: 950829 02:41 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 534
Retention Time: 12.49 min.
Quant Ion : 130.0
Area : 1078846
Concentration : 118.56 ppb
q-value : 96

MS data file header from : >Q6500::D5

Sample: 35343 1.0 Operator: RODH 8/29/95 2:41
Misc : HA 91-1 SDG:DUP1 EPA:MW202
Inst. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 6 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

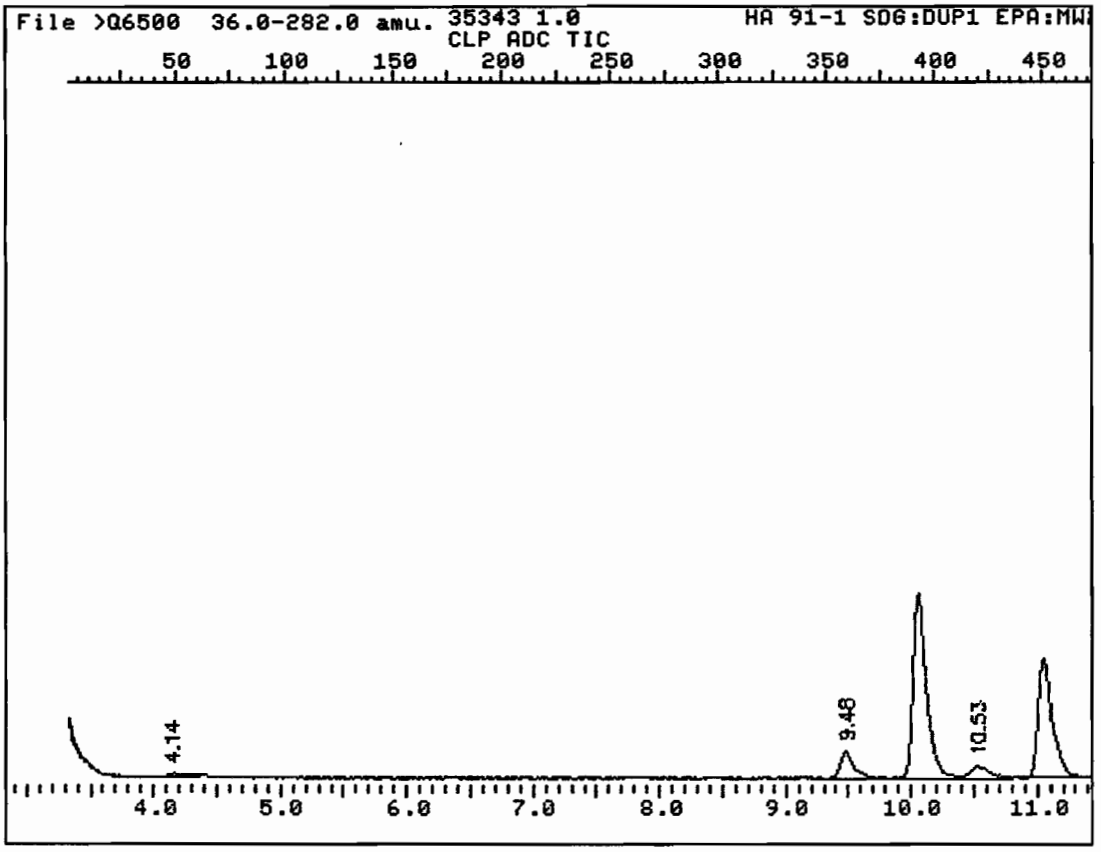
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1562328.	10.07	3.34 - 10.93
2	50.0	2174096.	11.79	10.93 - 15.01
3	50.0	2544734.	18.23	15.01 - 26.01

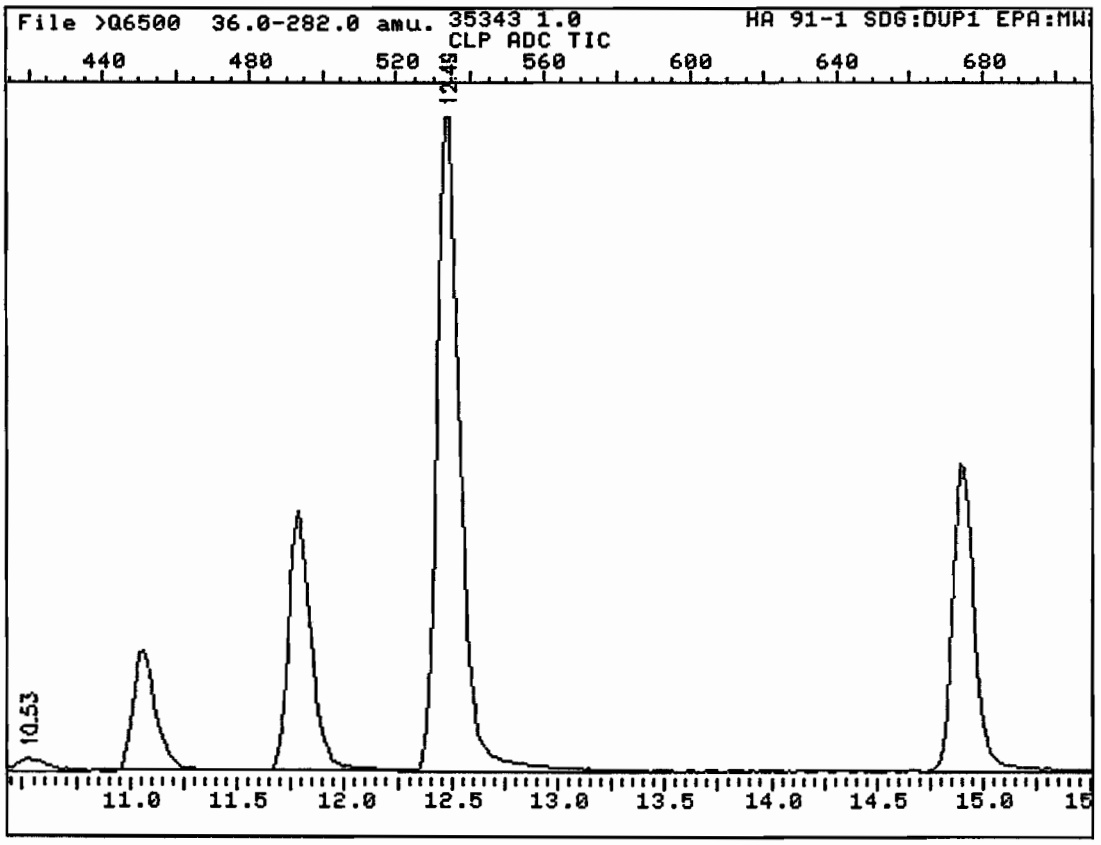
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

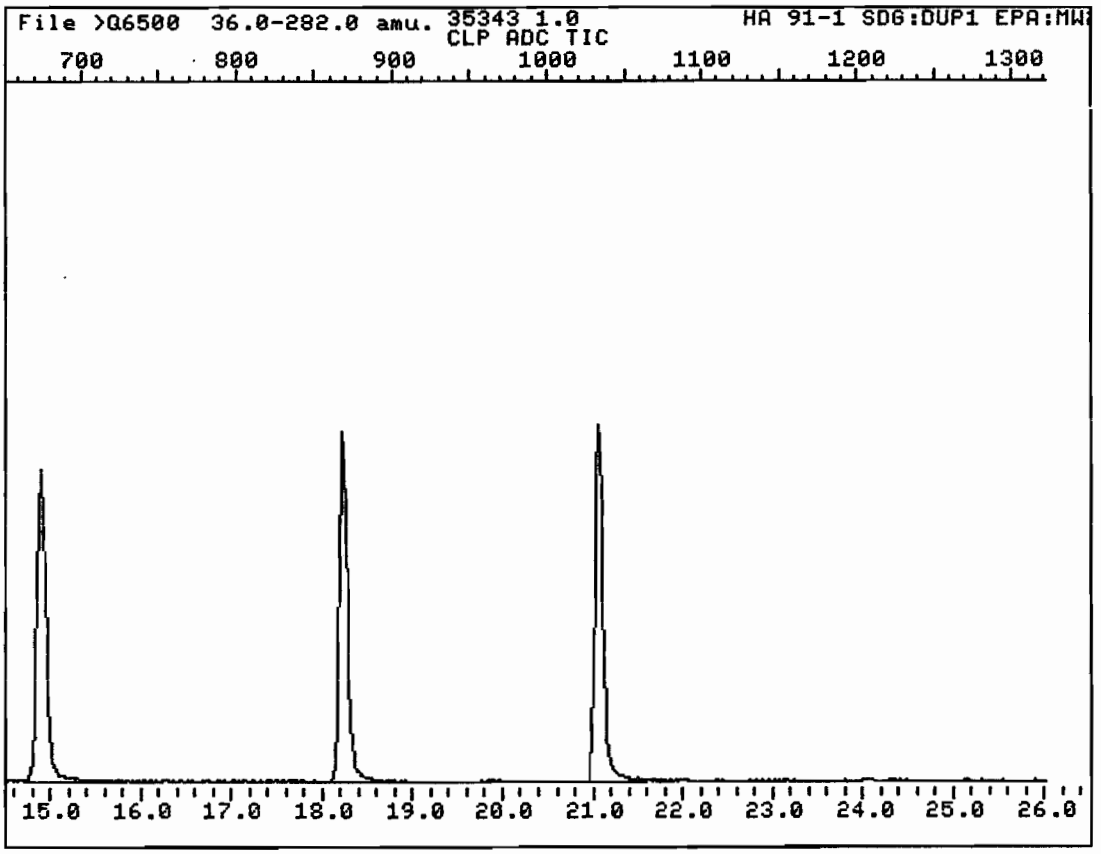
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} * \text{Area Unknown}|}{|\text{Area Int Std}|} * \text{Correction Factor}$$

12:19 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 2:41



Instrument ID: 1 Analyzed on: 8/29/95 2:41

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35338

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6490

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	4.	J
75-34-3	1,1-Dichloroethane	4.	J
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	3.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	22.	
71-55-6	1,1,1-Trichloroethane	47.	
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	660.	E
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35338

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6490

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

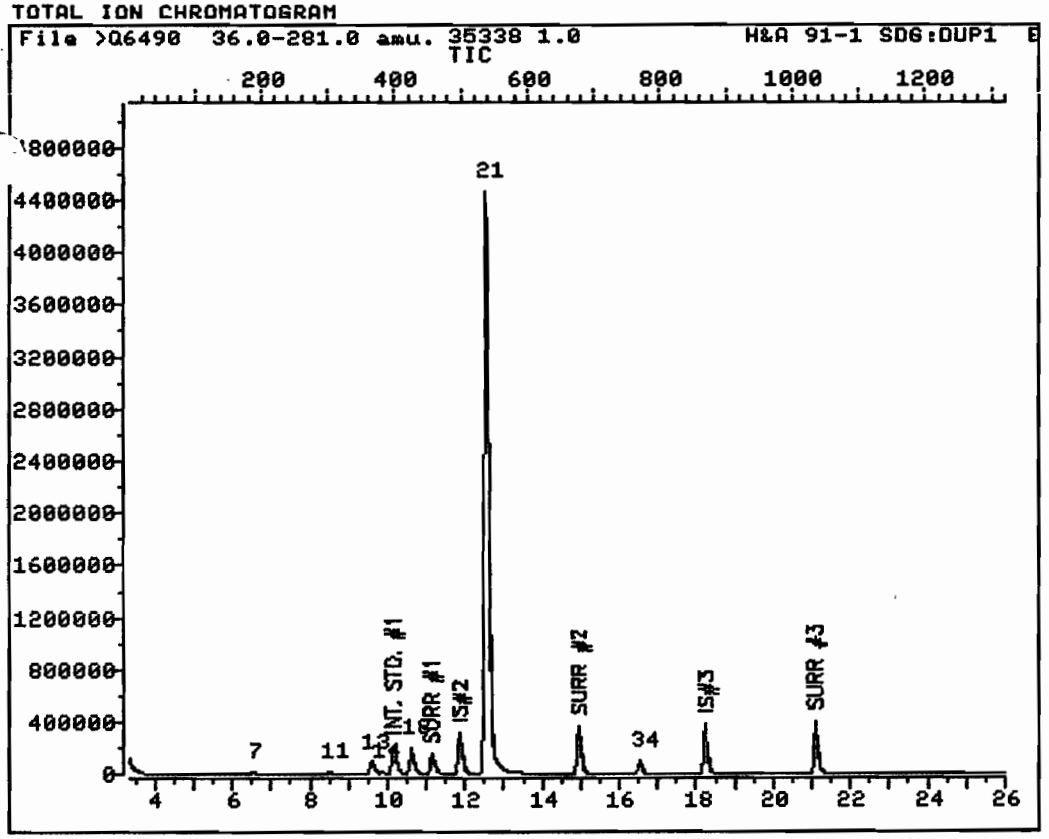
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 07:48
Output File: ^Q6490::D5 Injected at: 950828 19:11
Data File: >Q6490::D5 Dilution Factor: 1.00000
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.14	128.0	219361	50.00	ppb	97
7)	1,1-Dichloroethene	6.51	96.0	24443	4.31	ppb	97
11)	1,1-Dichloroethane	8.52	63.0	50993	3.72	ppb	97
13)	cis-1,2-Dichloroethene	9.57	96.0	154400	21.60	ppb	88
14)	Chloroform	9.84	83.0	47239	3.34	ppb	98
16)	1,2-Dichloroethane-d4	11.13	65.0	357355	46.59	ppb	92
17)	*1,4-Difluorobenzene	11.86	114.0	957935	50.00	ppb	87
18)	1,1,1-Trichloroethane	10.60	97.0	547062	46.69	ppb	94
21)	Trichloroethene	12.54	130.0	6377534	662.46	ppb	95
29)	*Chlorobenzene-d5	18.25	117.0	809067	50.00	ppb	97
31)	Toluene-d8	14.95	98.0	873053	48.72	ppb	91
34)	Tetrachloroethene	16.55	164.0	80984	10.01	ppb	96
41)	Bromofluorobenzene	21.08	95.0	543422	49.38	ppb	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM

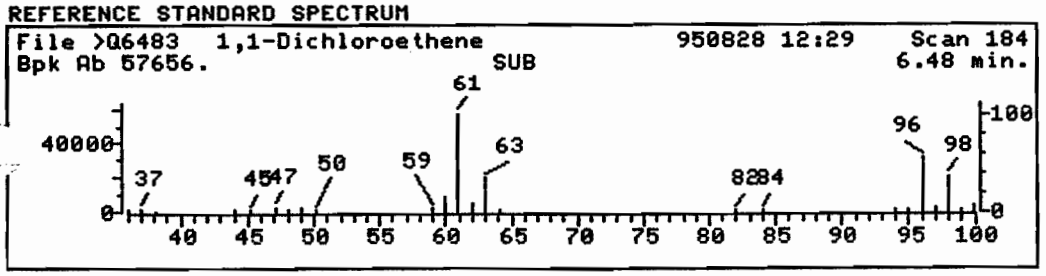


Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3

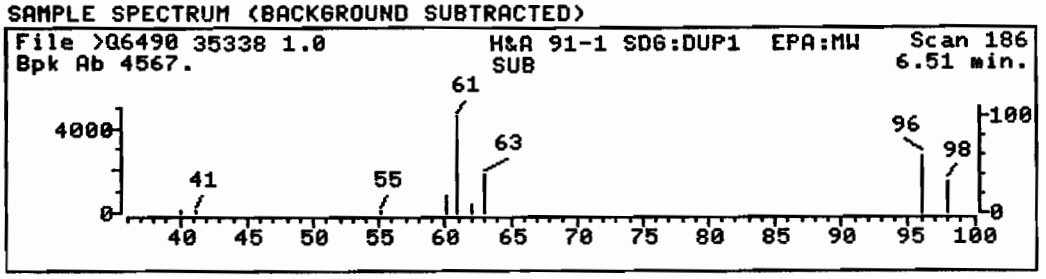
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

Operator ID: RODH
Quant Time : 950828 07:48
Injected at: 950828 19:11

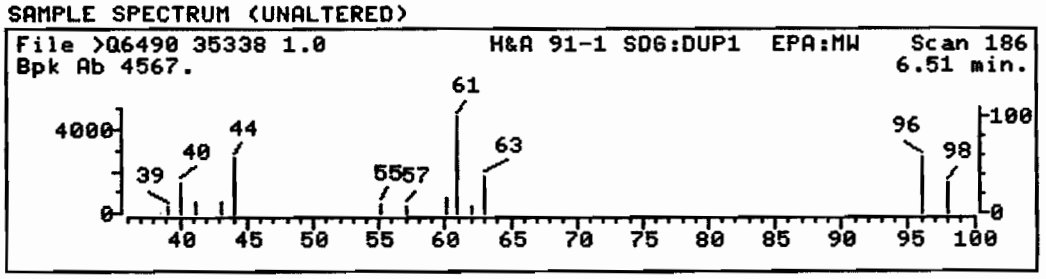
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



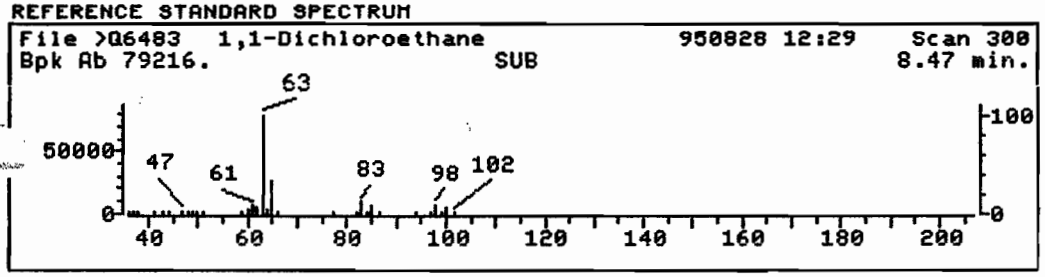
SAMPLE SPECTRUM (UNALTERED)



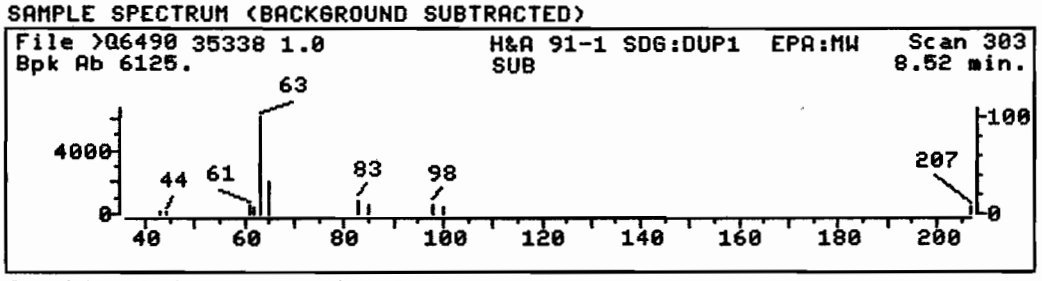
Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3
Quant Time: 950828 07:48 Quant ID File: IDECLP::QT
Injected at: 950828 19:11 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 7
Compound Name : 1,1-Dichloroethene
Scan Number : 186
Retention Time: 6.51 min.
Quant Ion : 96.0
Area : 24443
Concentration : 4.31 ppb
q-value : 97

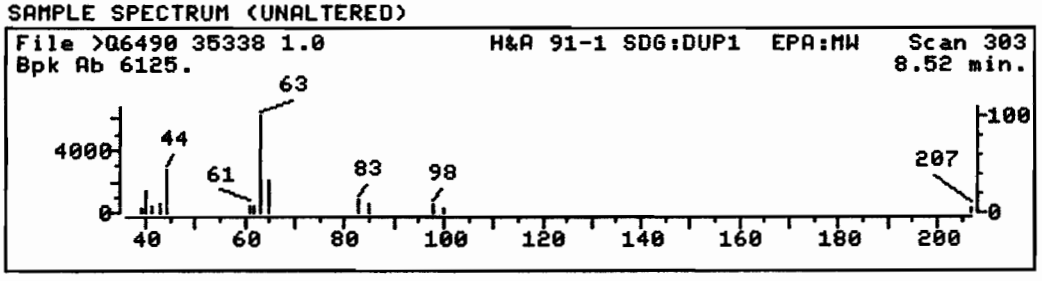
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



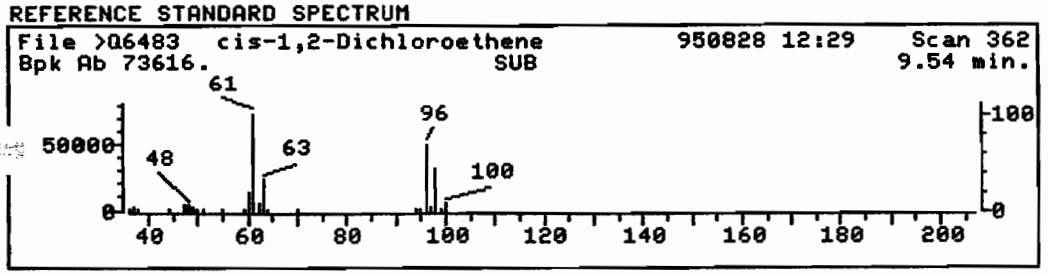
SAMPLE SPECTRUM (UNALTERED)



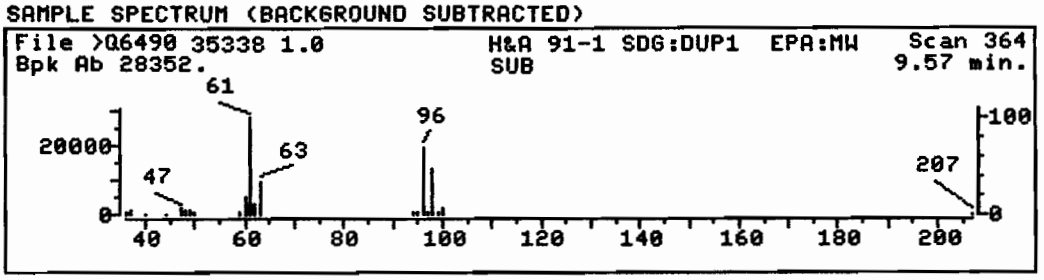
Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3
Quant Time: 950828 07:48 Quant ID File: IDECLP::QT
Injected at: 950828 19:11 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 11
Compound Name : 1,1-Dichloroethane
Scan Number : 303
Retention Time: 8.52 min.
Quant Ion : 63.0
Area : 50993
Concentration : 3.72 ppb
q-value : 97

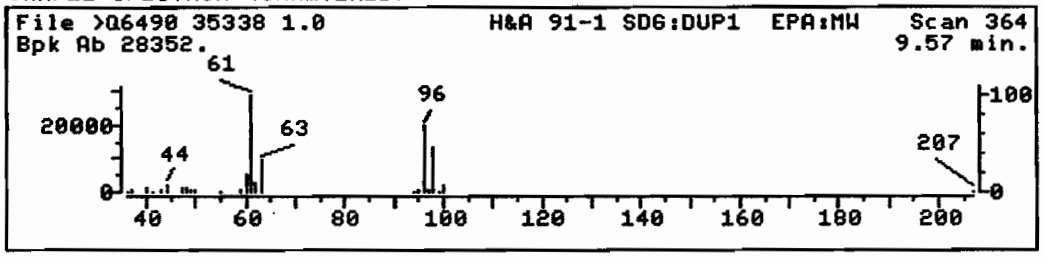
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



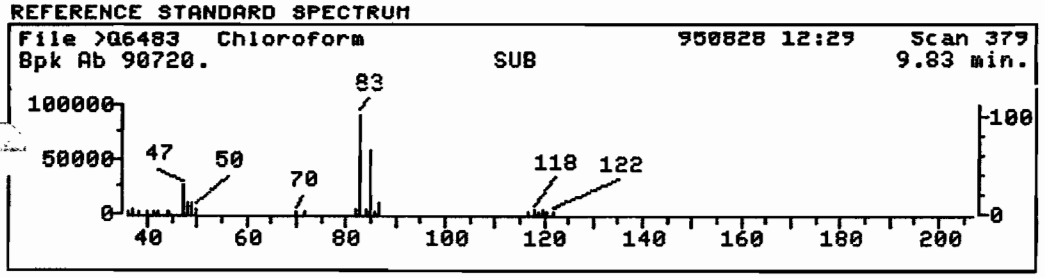
SAMPLE SPECTRUM (UNALTERED)



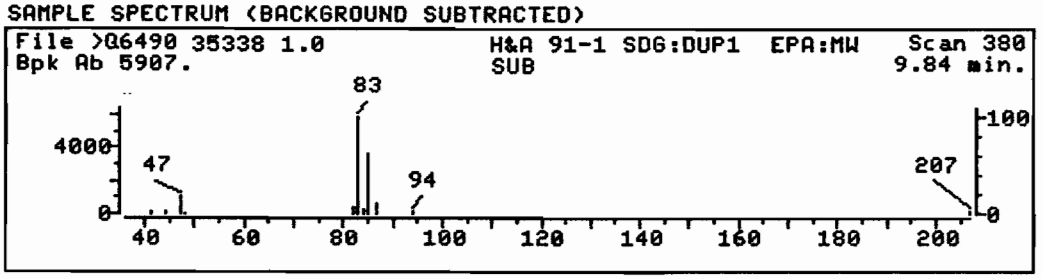
Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3
Quant Time: 950828 07:48 Quant ID File: IDECLP::QT
Injected at: 950828 19:11 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 364
Retention Time: 9.57 min.
Quant Ion : 96.0
Area : 154400
Concentration : 21.60 ppb
q-value : 88

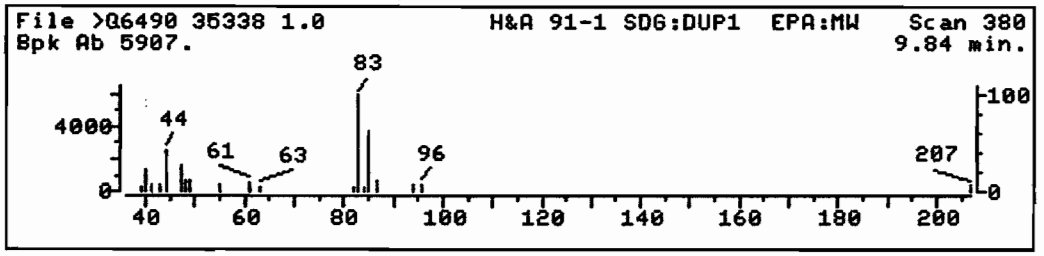
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



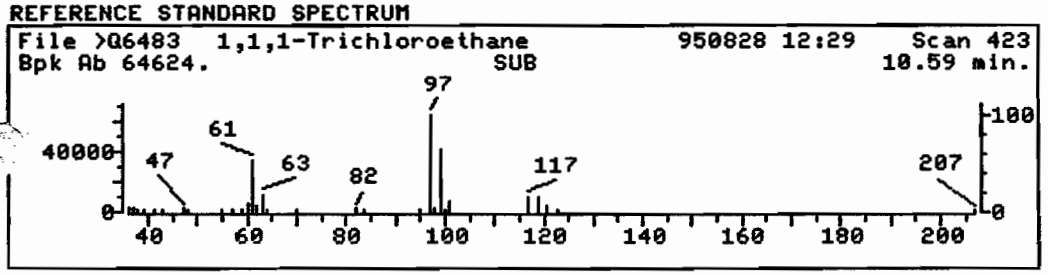
SAMPLE SPECTRUM (UNALTERED)



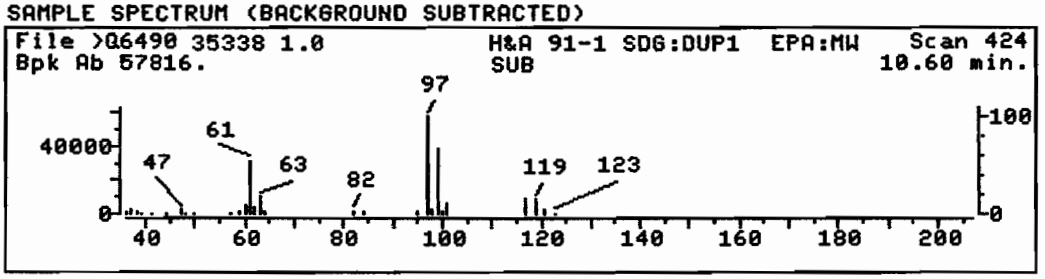
Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3
Quant Time: 950828 07:48 Quant ID File: IDECLP::QT
Injected at: 950828 19:11 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 14
Compound Name : Chloroform
Scan Number : 380
Retention Time: 9.84 min.
Quant Ion : 83.0
Area : 47239
Concentration : 3.34 ppb
q-value : 98

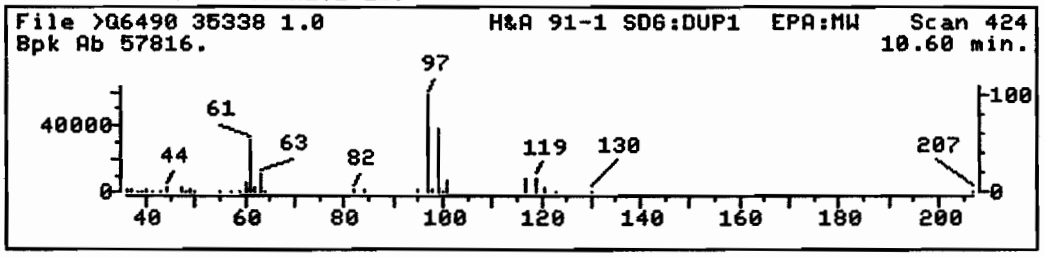
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



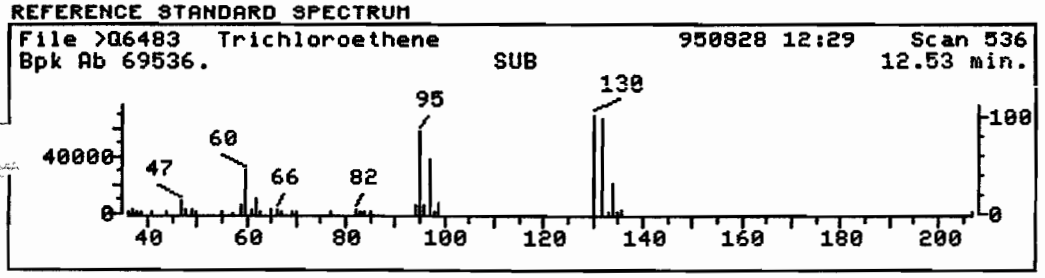
SAMPLE SPECTRUM (UNALTERED)



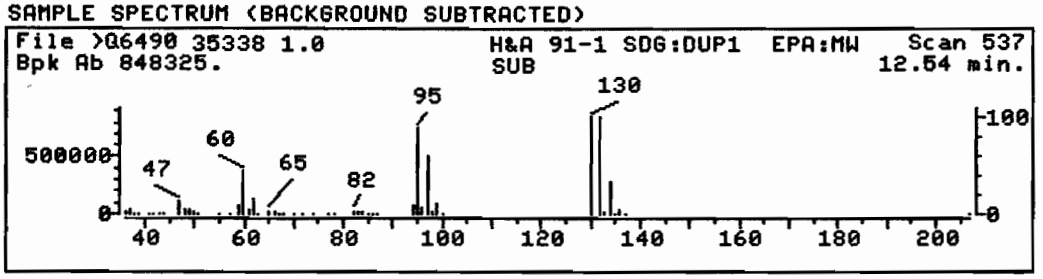
Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3
Quant Time: 950828 07:48 Quant ID File: IDECLP::QT
Injected at: 950828 19:11 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 424
Retention Time: 10.60 min.
Quant Ion : 97.0
Area : 547062
Concentration : 46.69 ppb
q-value : 94

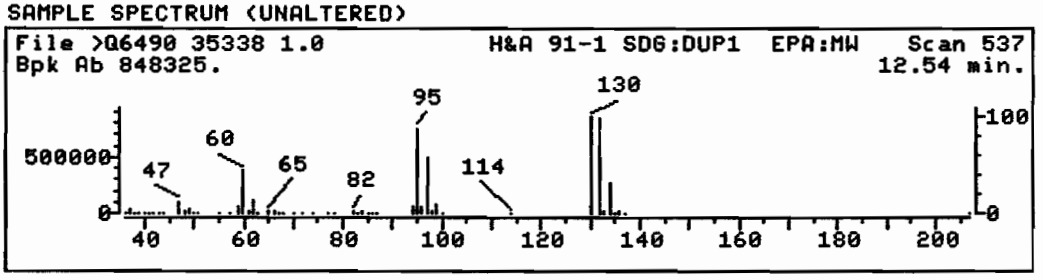
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



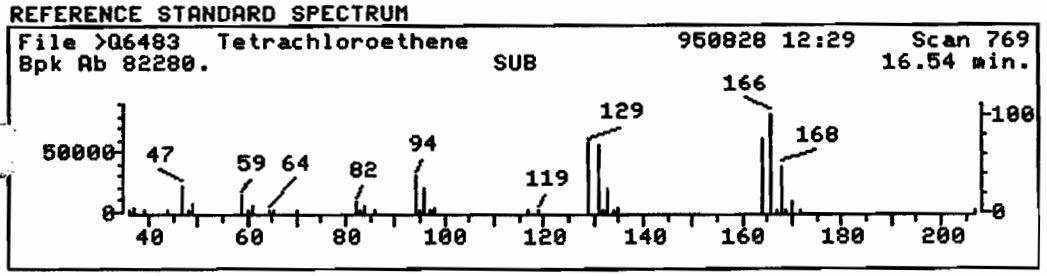
SAMPLE SPECTRUM (UNALTERED)



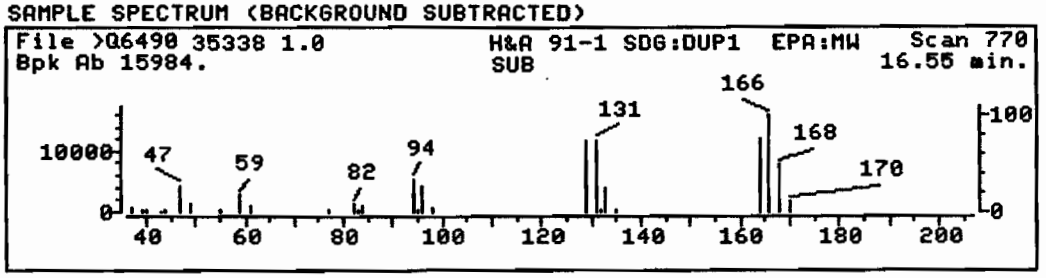
Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3
Quant Time: 950828 07:48 Quant ID File: IDECLP::QT
Injected at: 950828 19:11 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 537
Retention Time: 12.54 min.
Quant Ion : 130.0
Area : 6377534
Concentration : 662.46 ppb
q-value : 95

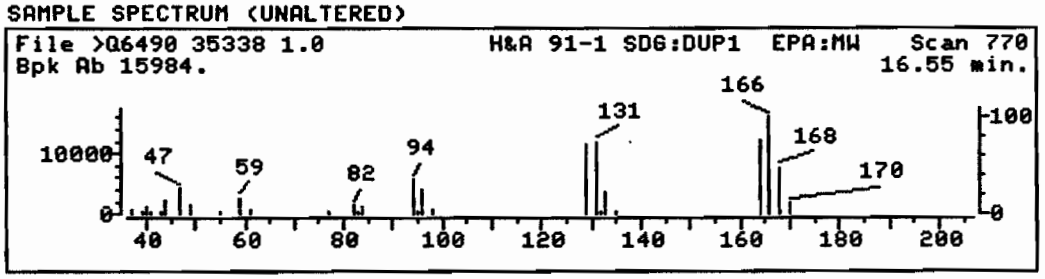
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6490::D5 Quant Output File: ^Q6490::D5
Name: 35338 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:MW3
Quant Time: 950828 07:48 Quant ID File: IDECLP::QT
Injected at: 950828 19:11 Last Calibration: 950725 16:02
Last Qcal Time: 950828 12:29

Compound No : 34
Compound Name : Tetrachloroethene
Scan Number : 770
Retention Time: 16.55 min.
Quant Ion : 164.0
Area : 80984
Concentration : 10.01 ppb
q-value : 96

MS data file header from : >Q6490::D5

Sample: 35338 1.0 Operator: RODH 8/28/95 19:11
Misc : H&A 91-1 SDG:DUP1 EPA:MW3
Inst. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

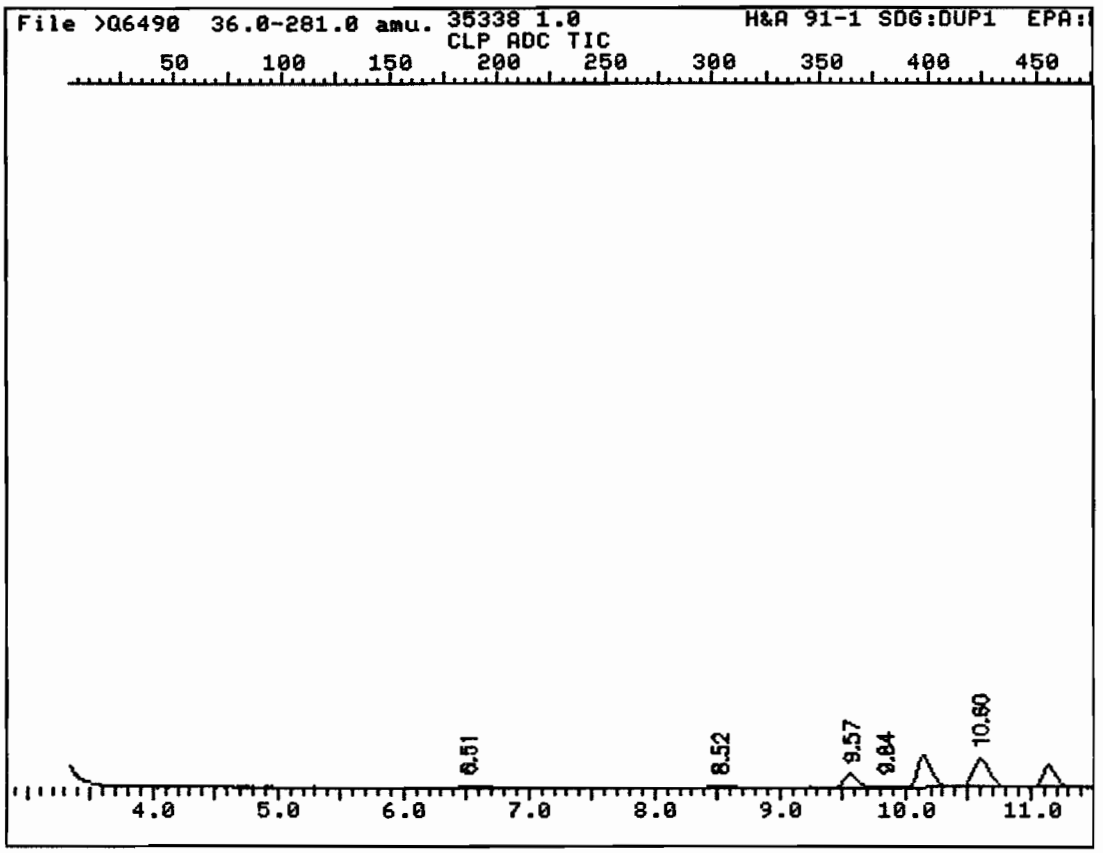
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1699948.	10.14	3.34 - 11.00
2	50.0	2290678.	11.86	11.00 - 15.05
3	50.0	2514266.	18.25	15.05 - 26.01

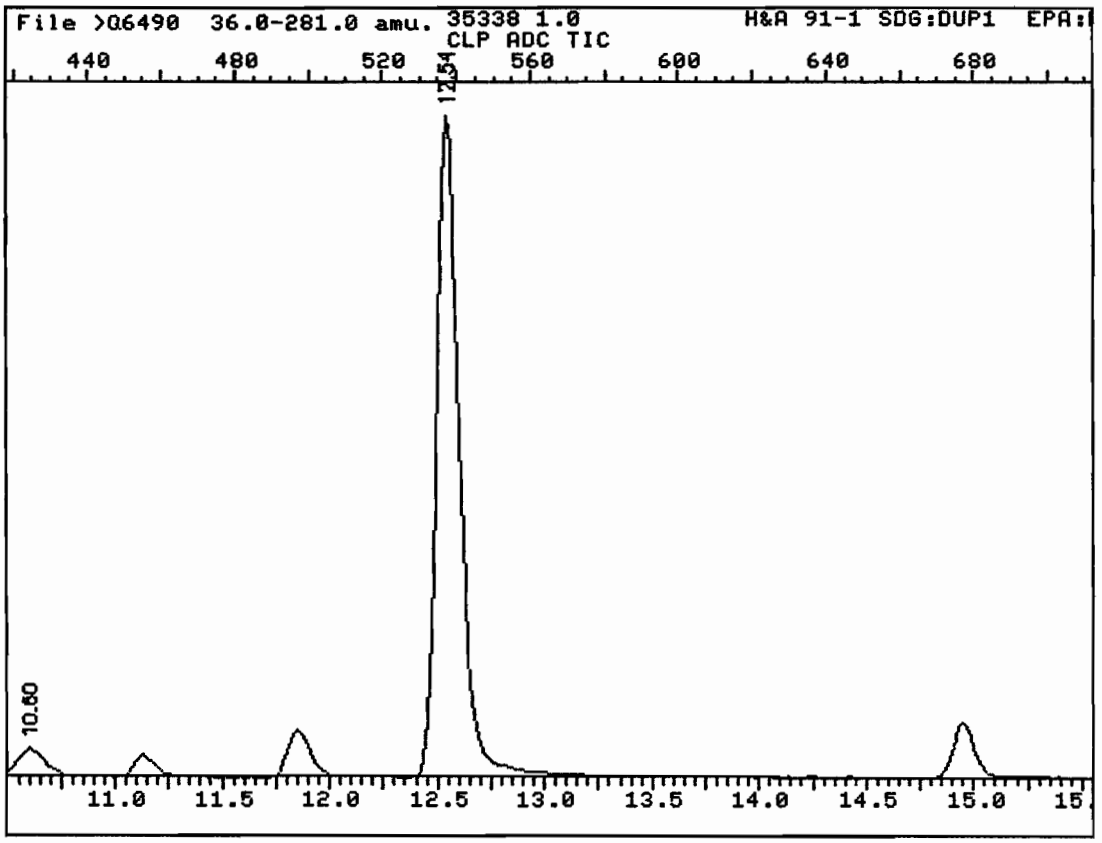
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

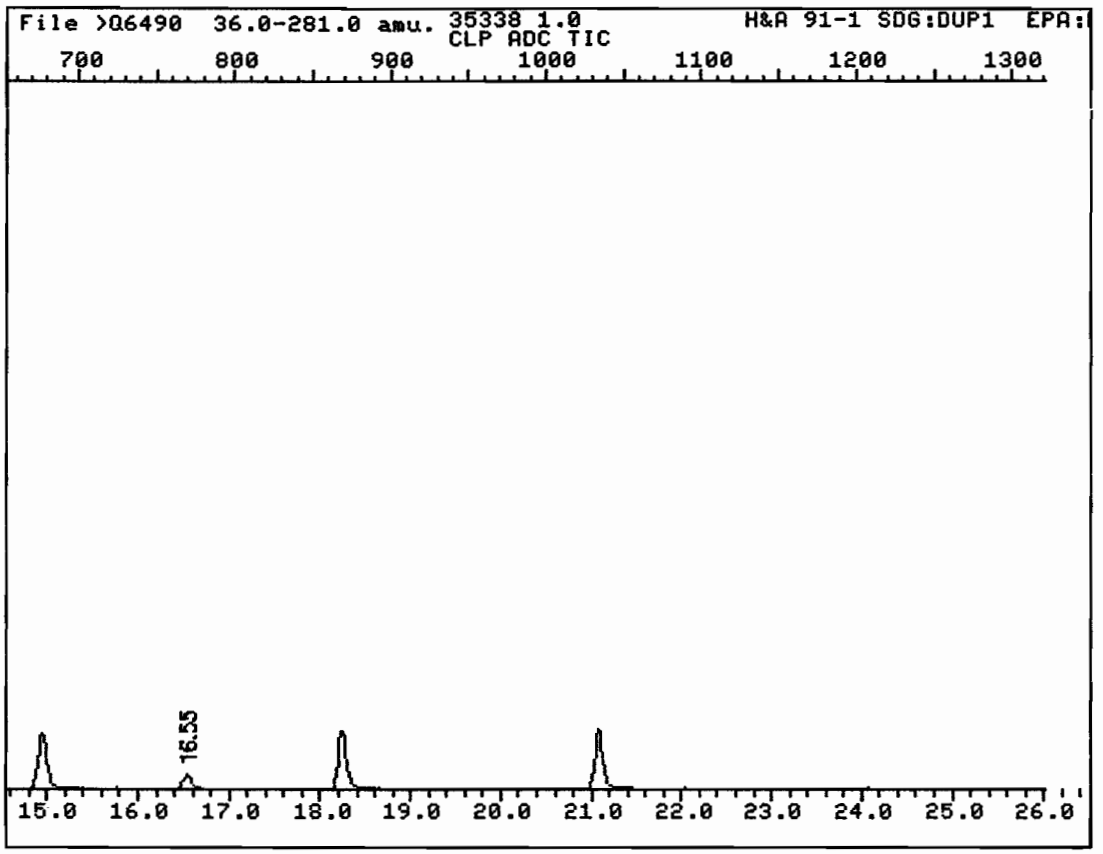
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} * \text{Area Unknown}|}{|\text{Area Int Std}|} * \text{Correction Factor}$$

11:43 AM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/28/95 19:11



Instrument ID: 1 Analyzed on: 8/28/95 19:11

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3DL

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35338DL

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6495

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene chloride	50.	U
67-64-1	Acetone	15.	DJ
75-15-0	Carbon Disulfide	50.	U
75-35-4	1,1-Dichloroethene	50.	U
75-34-3	1,1-Dichloroethane	50.	U
156-60-5	trans-1,2-Dichloroethene	50.	U
67-66-3	Chloroform	50.	U
107-06-2	1,2-Dichloroethane	50.	U
78-93-3	2-Butanone	50.	U
156-59-2	cis-1,2-Dichloroethene	21.	DJ
71-55-6	1,1,1-Trichloroethane	29.	DJ
56-23-5	Carbon tetrachloride	50.	U
75-27-4	Bromodichloromethane	50.	U
78-87-5	1,2-Dichloropropane	50.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U
79-01-6	Trichloroethene	510.	D
124-48-1	Dibromochloromethane	50.	U
79-00-5	1,1,2-Trichloroethane	50.	U
71-43-2	Benzene	50.	U
50061-02-6	trans-1,3-Dichloropropene	50.	U
75-25-2	Bromoform	50.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	7.	DJ
79-34-5	1,1,2,2-Tetrachloroethane	50.	U
108-88-3	Toluene	50.	U
108-90-7	Chlorobenzene	50.	U
100-41-4	Ethylbenzene	50.	U
100-42-5	Styrene	50.	U
108-38-3	(m+p)Xylene	50.	U
95-47-6	o-Xylene	50.	U

00140

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW3DL

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35338DL

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6495

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

00141

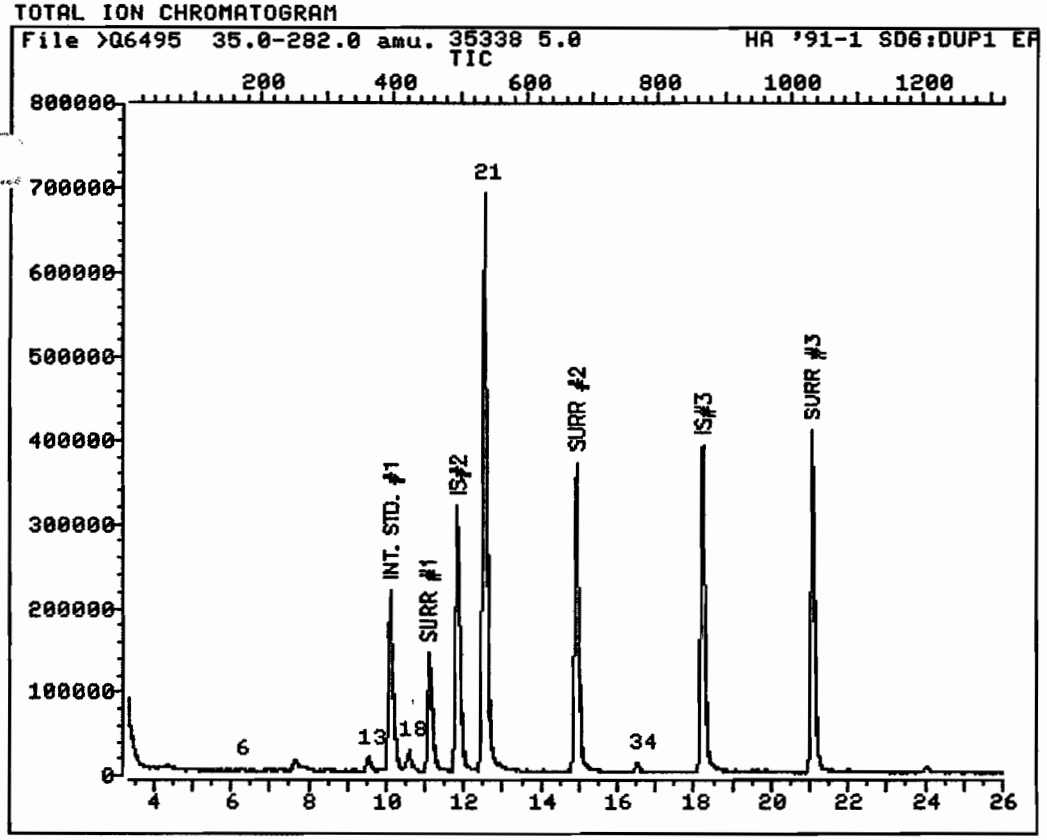
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 19:51
Output File: ^Q6495::D5 Injected at: 950828 23:51
Data File: >Q6495::D5 Dilution Factor: 1.00000
Name: 35338 5.0 Instrument ID: 1
Misc: HA '91-1 SDG:DUP1 EPA:MW3DL

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.10	128.0	221801	50.00	ppb	98
6)	Acetone	6.24	43.0	10394	2.92	ppb	81
13)	cis-1,2-Dichloroethene	9.50	96.0	29901	4.12	ppb	91
16)	1,2-Dichloroethane-d4	11.08	65.0	357805	47.33	ppb	92
17)	*1,4-Difluorobenzene	11.82	114.0	975282	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.57	97.0	71710	5.88	ppb	92
21)	Trichloroethene	12.51	130.0	1001959	101.89	ppb	98
29)	*Chlorobenzene-d5	18.23	117.0	827532	50.00	ppb	95
31)	Toluene-d8	14.93	98.0	891302	51.93	ppb	85
34)	Tetrachloroethene	16.53	164.0	10104	1.31	ppb	96
41)	Bromofluorobenzene	21.04	95.0	548052	51.07	ppb	88

* Compound is ISTD

TOTAL ION CHROMATOGRAM

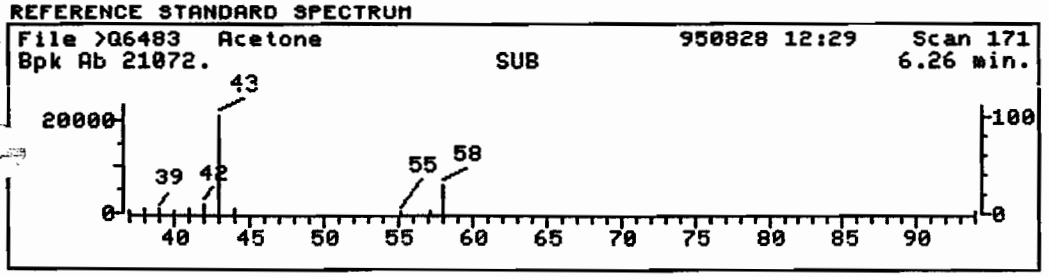


Data File: >Q6495::D5 Quant Output File: ^Q6495::D5
Name: 35338 5.0 Instrument ID: 1
Misc: HA '91-1 SDG:DUP1 EPA:MW3DL

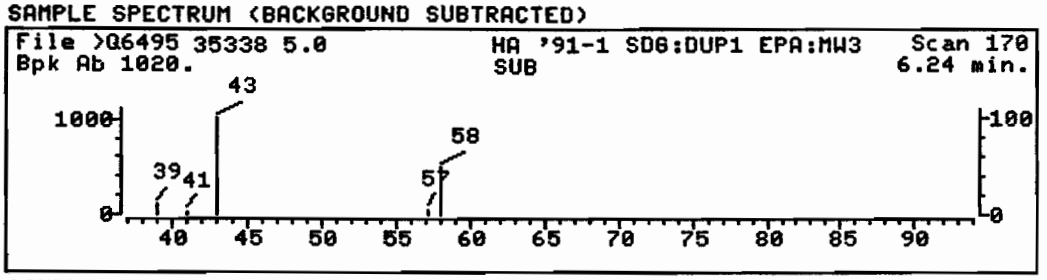
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 19:51
Injected at: 950828 23:51

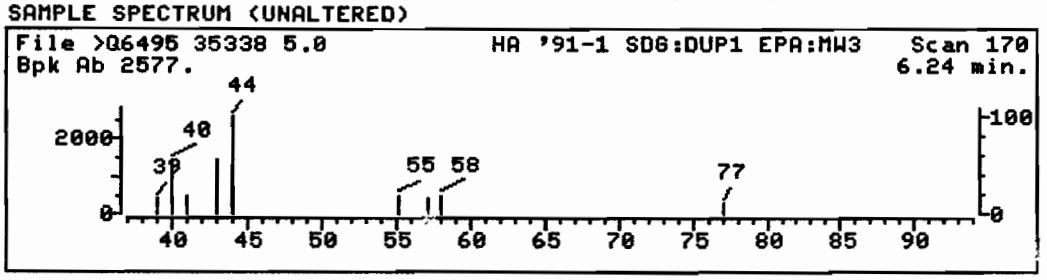
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



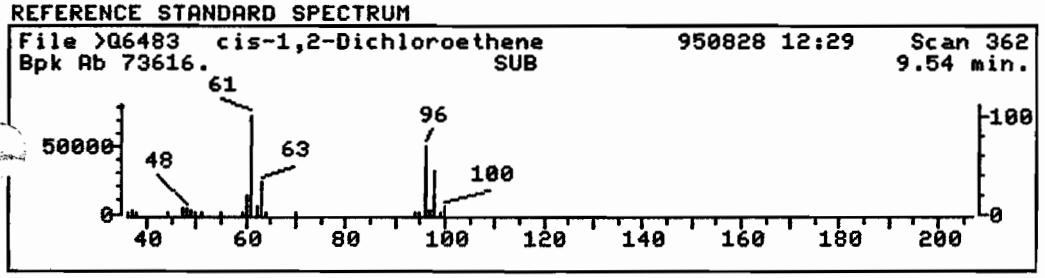
SAMPLE SPECTRUM (UNALTERED)



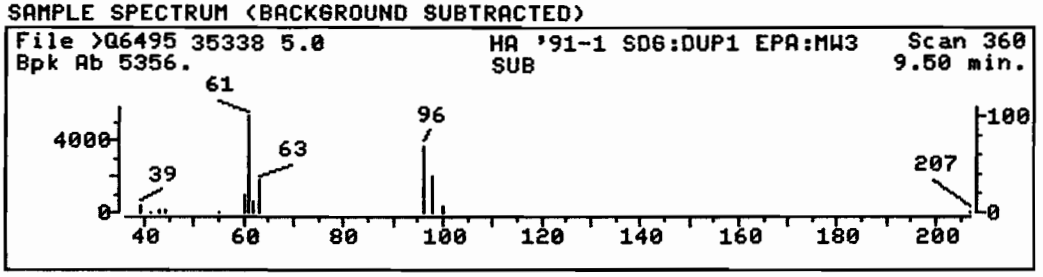
Data File: >Q6495::D5 Quant Output File: ^Q6495::D5
Name: 35338 5.0 Instrument ID: 1
Misc: HA '91-1 SDG:DUP1 EPA:MW3DL
Quant Time: 950828 19:51 Quant ID File: IDECLP::QT
Injected at: 950828 23:51 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 6
Compound Name : Acetone
Scan Number : 170
Retention Time: 6.24 min.
Quant Ion : 43.0
Area : 10394
Concentration : 2.92 ppb
q-value : 81

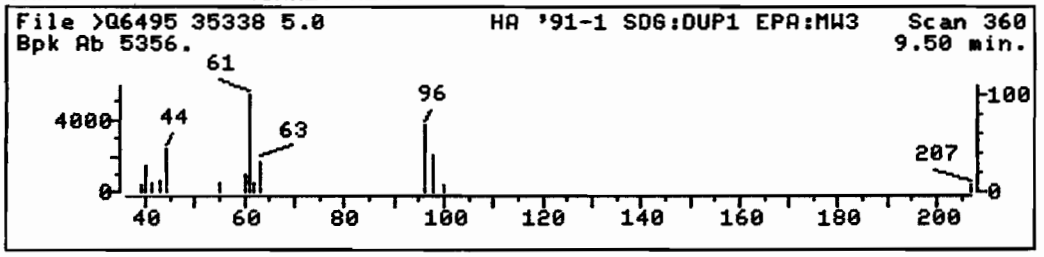
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

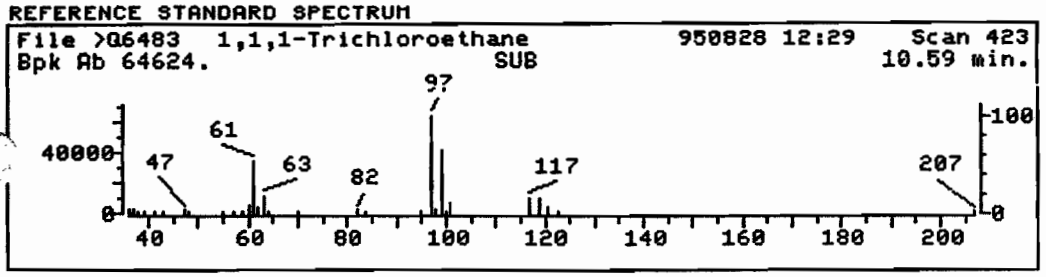


Data File: >Q6495::D5 Quant Output File: ^Q6495::D5
Name: 35338 5.0 Instrument ID: 1
Misc: HA '91-1 SDG:DUP1 EPA:MW3DL
Quant Time: 950828 19:51 Quant ID File: IDECLP::QT
Injected at: 950828 23:51 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

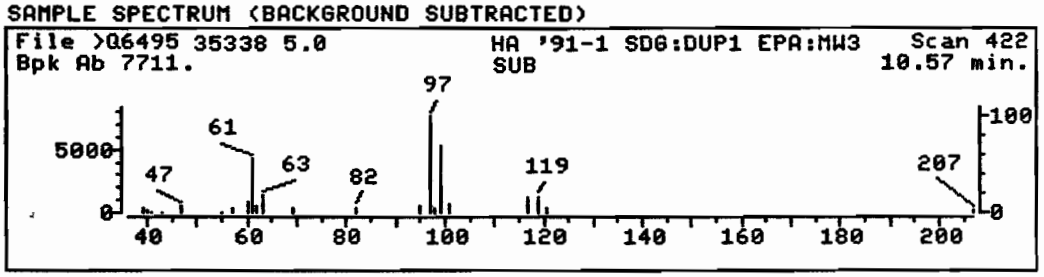
Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 360
Retention Time: 9.50 min.
Quant Ion : 96.0
Area : 29901
Concentration : 4.12 ppb
q-value : 91

00145

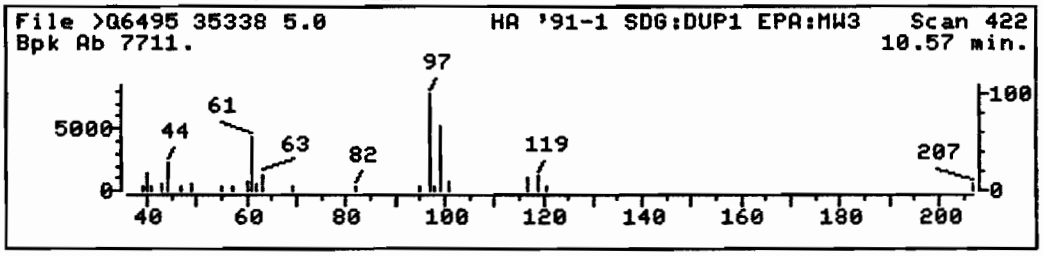
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



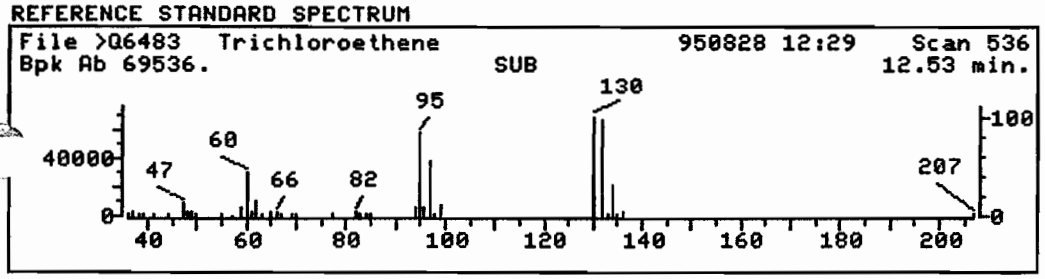
SAMPLE SPECTRUM (UNALTERED)



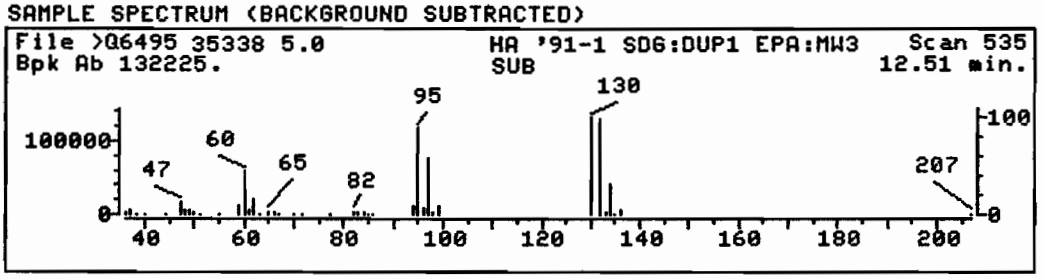
Data File: >Q6495::D5 Quant Output File: ^Q6495::D5
Name: 35338 5.0 Instrument ID: 1
Misc: HA '91-1 SDG:DUP1 EPA:MW3DL
Quant Time: 950828 19:51 Quant ID File: IDECLP::QT
Injected at: 950828 23:51 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 422
Retention Time: 10.57 min.
Quant Ion : 97.0
Area : 71710
Concentration : 5.88 ppb
q-value : 92

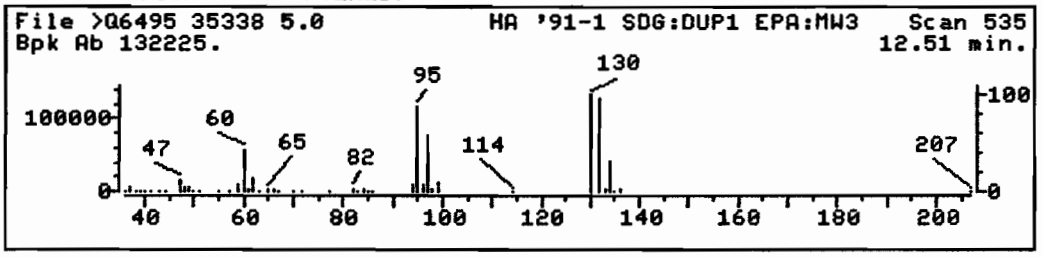
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



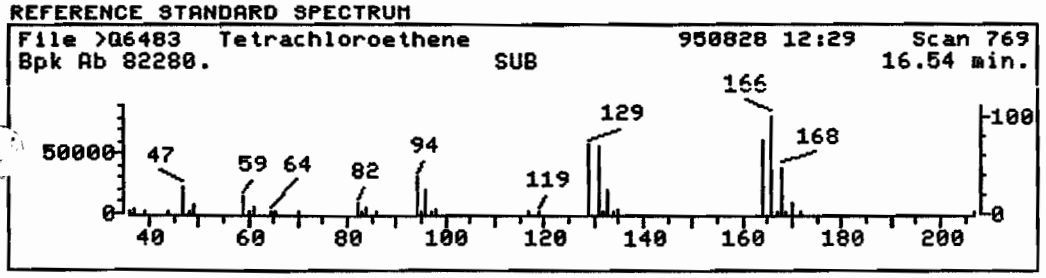
SAMPLE SPECTRUM (UNALTERED)



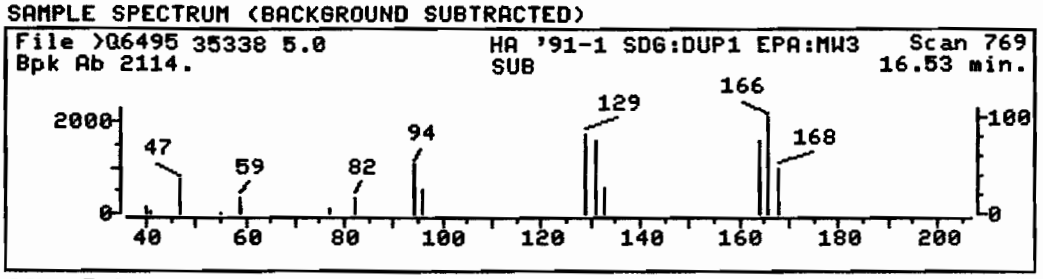
Data File: >Q6495::D5 Quant Output File: ^Q6495::D5
Name: 35338 5.0 Instrument ID: 1
Misc: HA '91-1 SDG:DUP1 EPA:MW3DL
Quant Time: 950828 19:51 Quant ID File: IDECLP::QT
Injected at: 950828 23:51 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 535
Retention Time: 12.51 min.
Quant Ion : 130.0
Area : 1001959
Concentration : 101.89 ppb
q-value : 98

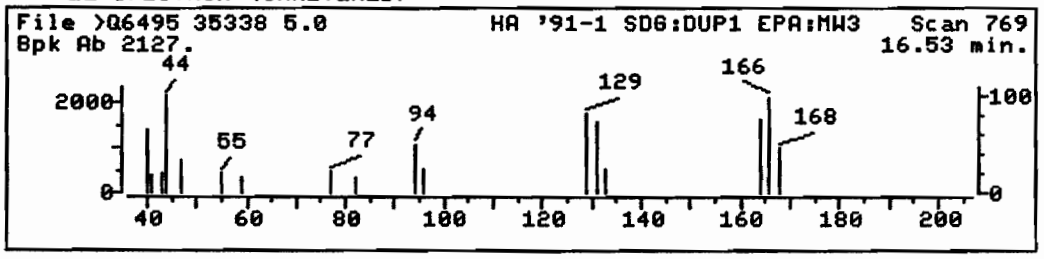
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6495::D5 Quant Output File: ^Q6495::D5
Name: 35338 5.0 Instrument ID: 1
Misc: HA '91-1 SDG:DUP1 EPA:MW3DL
Quant Time: 950828 19:51 Quant ID File: IDECLP::QT
Injected at: 950828 23:51 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 34
Compound Name : Tetrachloroethene
Scan Number : 769
Retention Time: 16.53 min.
Quant Ion : 164.0
Area : 10104
Concentration : 1.31 ppb
q-value : 96

MS data file header from : >Q6495::D5

Sample: 35338 5.0 Operator: RODH 8/28/95 23:51
Misc : HA '91-1 SDG:DUP1 EPA:MW3DL
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

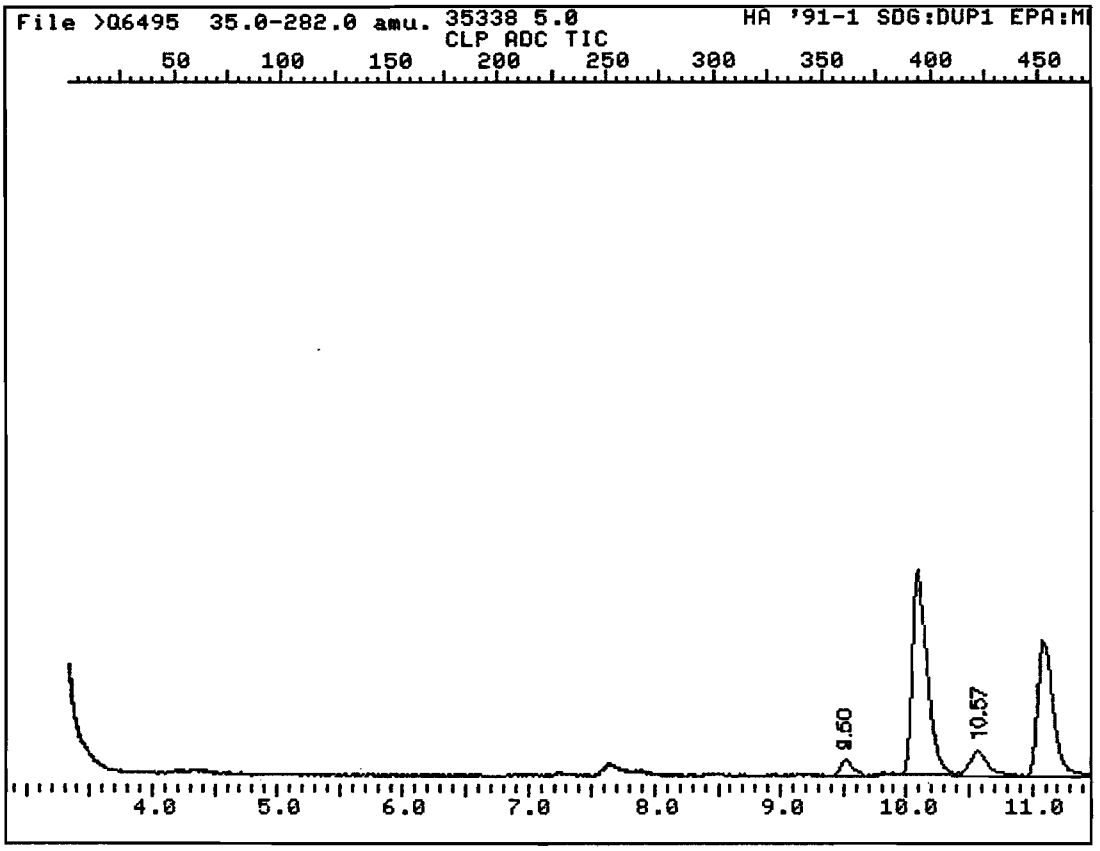
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1580722.	10.10	3.34 - 10.96
2	50.0	2331706.	11.82	10.96 - 15.02
3	50.0	2637708.	18.23	15.02 - 26.01

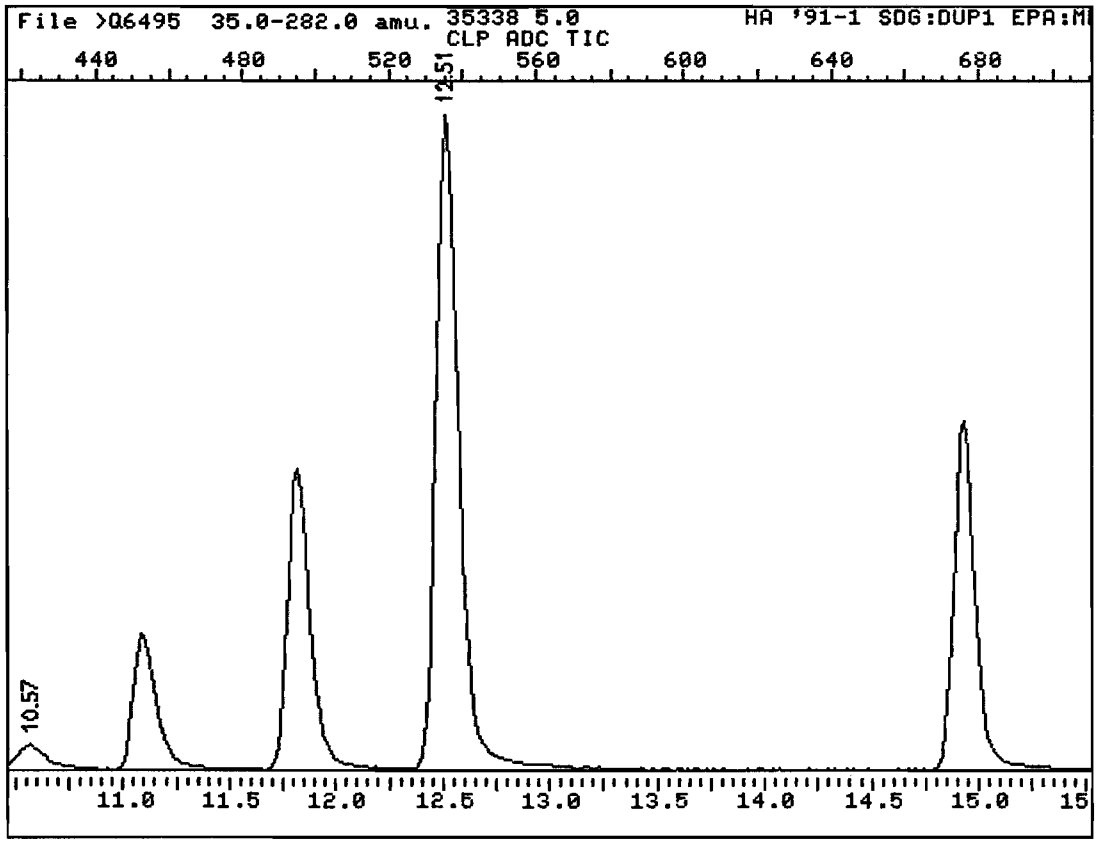
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 5.00

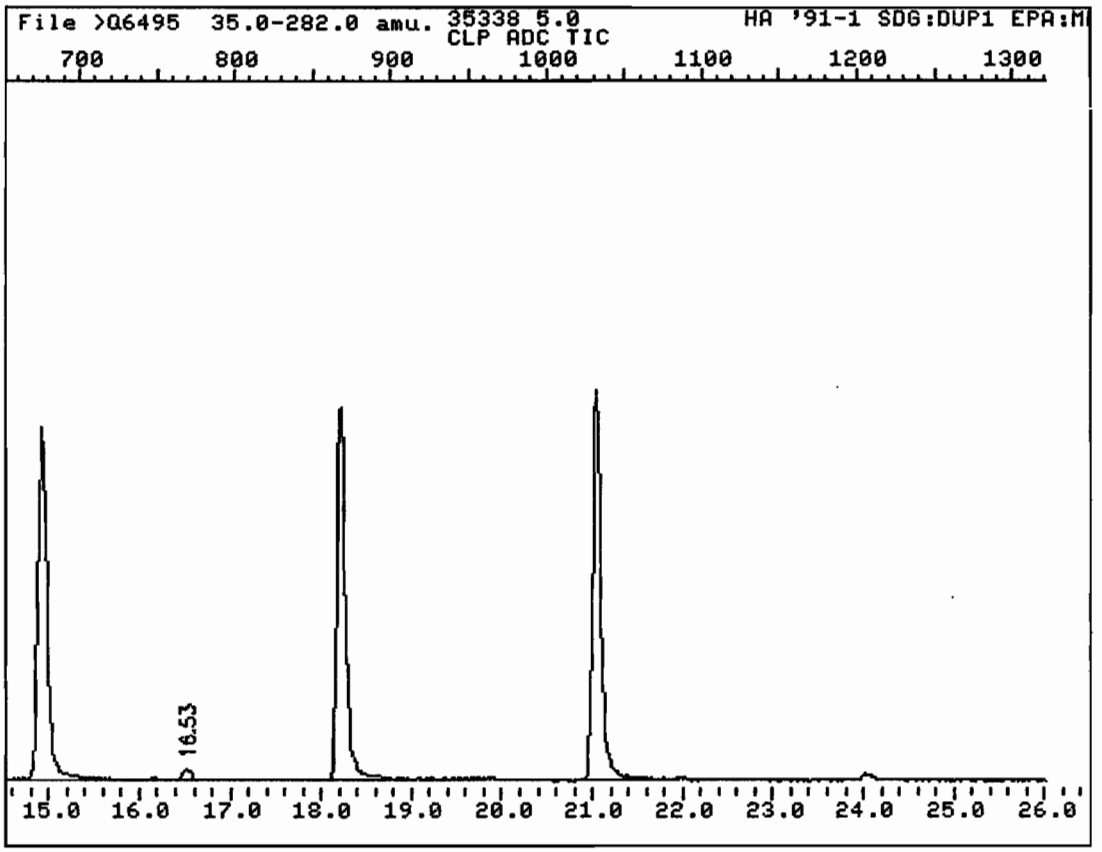
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

11:55 AM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/28/95 23:51



Instrument ID: 1 Analyzed on: 8/28/95 23:51

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35339

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6496

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	14.	
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW4

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35339

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6496

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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13.					
14.					
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23.					
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25.					
26.					
27.					
28.					
29.					
30.					

00153

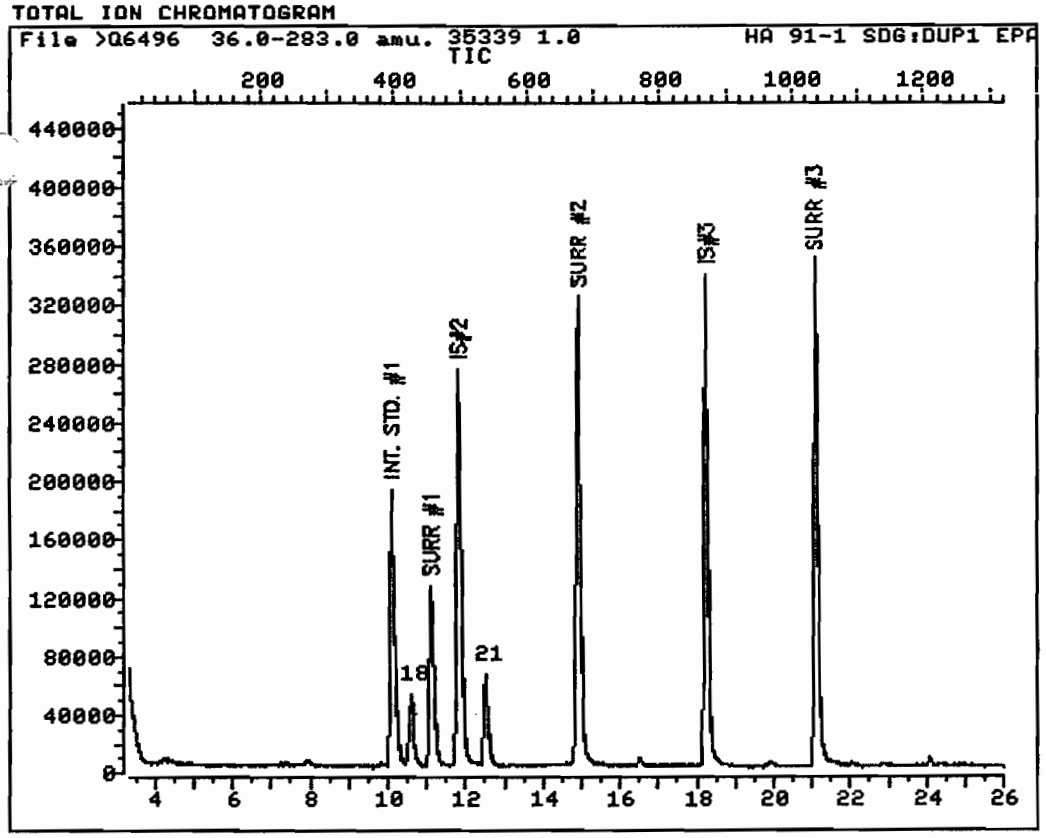
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 19:53
Output File: ^Q6496::D5 Injected at: 950829 12:25
Data File: >Q6496::D5 Dilution Factor: 1.00000
Name: 35339 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW4

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.10	128.0	190508	50.00	ppb	97
16)	1,2-Dichloroethane-d4	11.10	65.0	309828	47.71	ppb	90
17)	*1,4-Difluorobenzene	11.82	114.0	820806	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.58	97.0	142694	13.91	ppb	97
21)	Trichloroethene	12.51	130.0	86826	10.49	ppb	97
29)	*Chlorobenzene-d5	18.24	117.0	710723	50.00	ppb	97
31)	Toluene-d8	14.93	98.0	756583	51.32	ppb	88
41)	Bromofluorobenzene	21.08	95.0	492038	53.39	ppb	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM

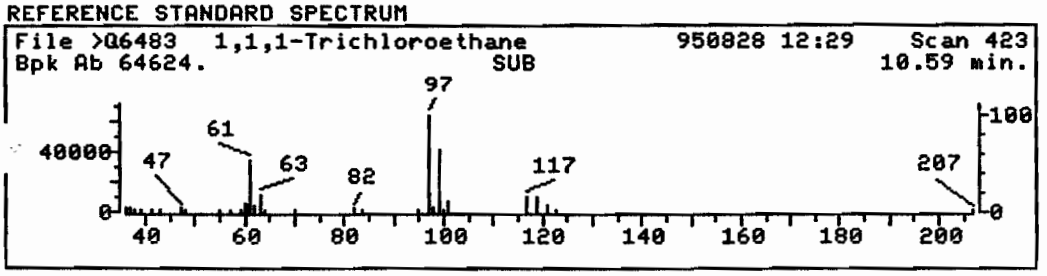


Data File: >Q6496::D5 Quant Output File: ^Q6496::D5
Name: 35339 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW4

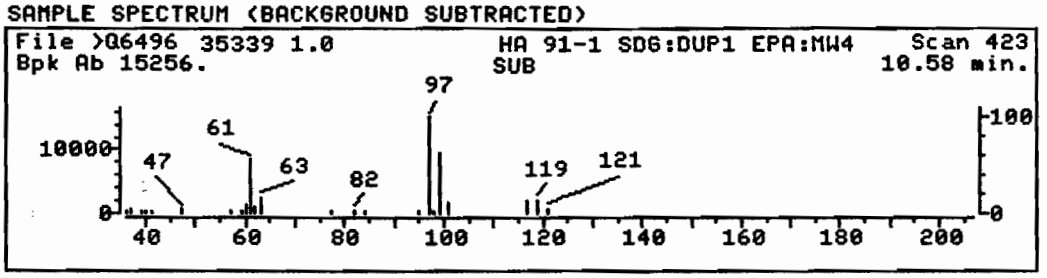
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 19:53
Injected at: 950829 12:25

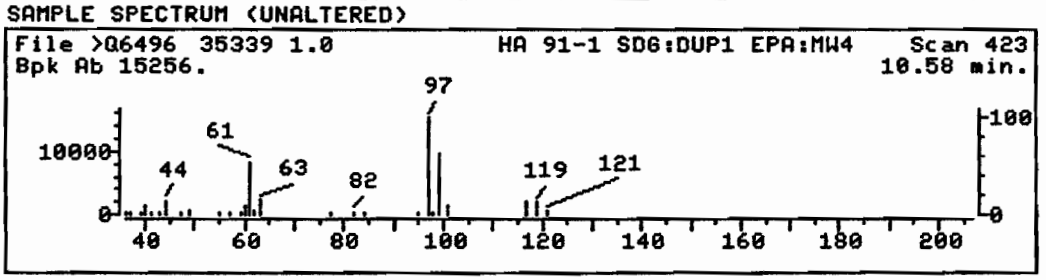
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



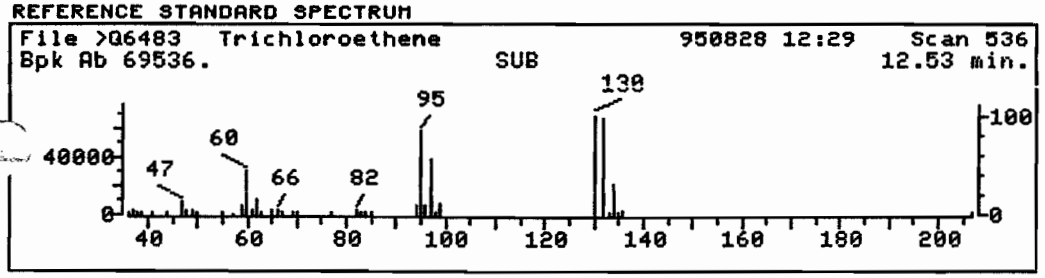
SAMPLE SPECTRUM (UNALTERED)



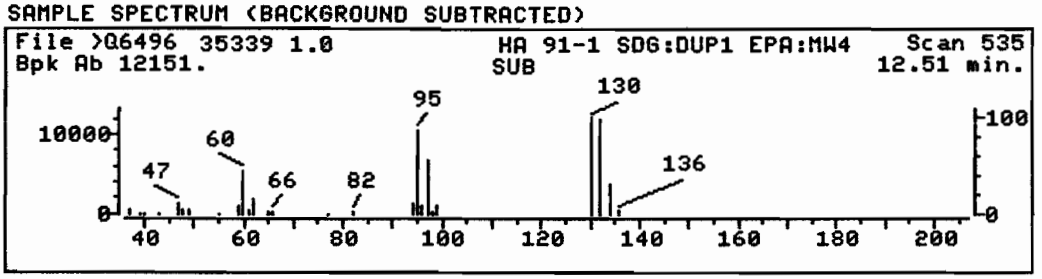
Data File: >Q6496::D5 Quant Output File: ^Q6496::D5
Name: 35339 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW4
Quant Time: 950828 19:53 Quant ID File: IDECLP::QT
Injected at: 950829 12:25 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 423
Retention Time: 10.58 min.
Quant Ion : 97.0
Area : 142694
Concentration : 13.91 ppb
q-value : 97

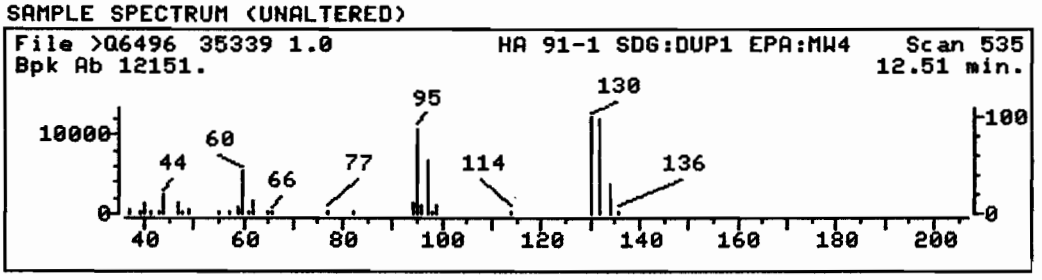
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6496::D5 Quant Output File: ^Q6496::D5
Name: 35339 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW4
Quant Time: 950828 19:53 Quant ID File: IDECLP::QT
Injected at: 950829 12:25 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 535
Retention Time: 12.51 min.
Quant Ion : 130.0
Area : 86826
Concentration : 10.49 ppb
q-value : 97

MS data file header from : >Q6496::D5

Sample: 35339 1.0 Operator: RODH 8/29/95 12:25
Misc : HA 91-1 SDG:DUP1 EPA:MW4
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 2 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

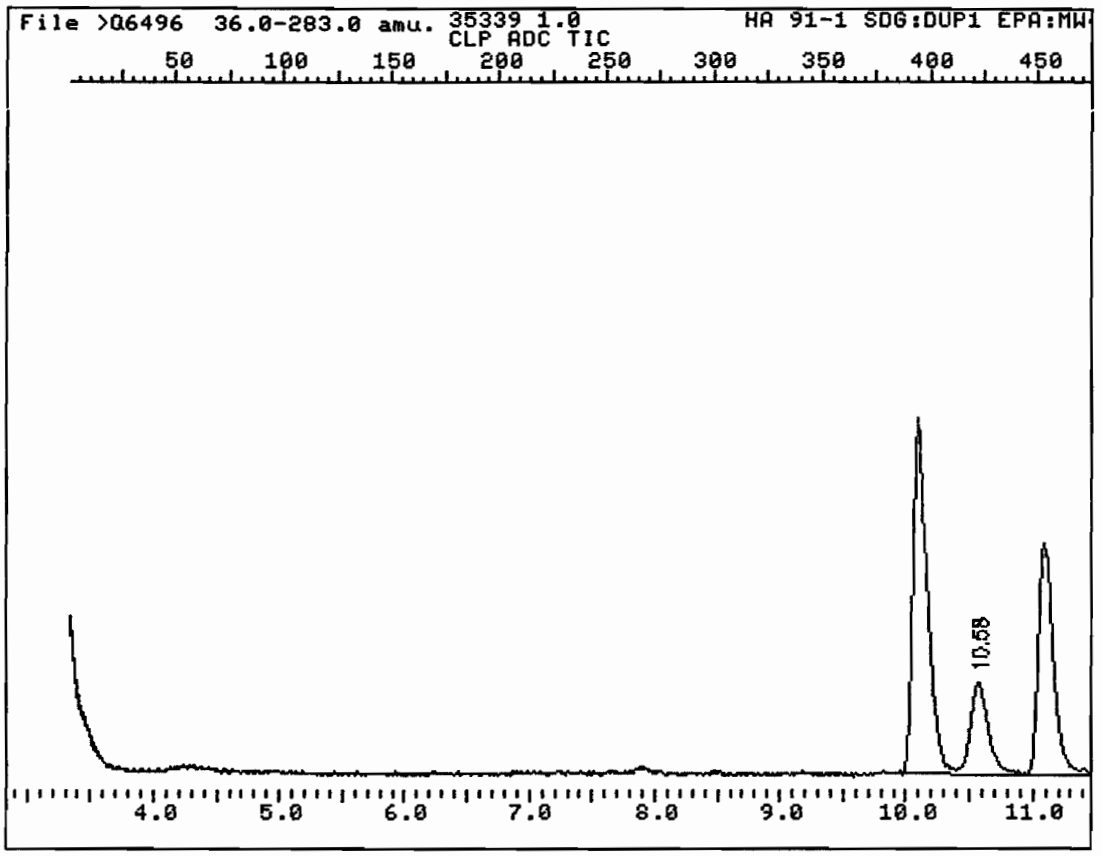
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1385208.	10.10	3.34 - 10.96
2	50.0	1992160.	11.82	10.96 - 15.03
3	50.0	2155337.	18.24	15.03 - 26.00

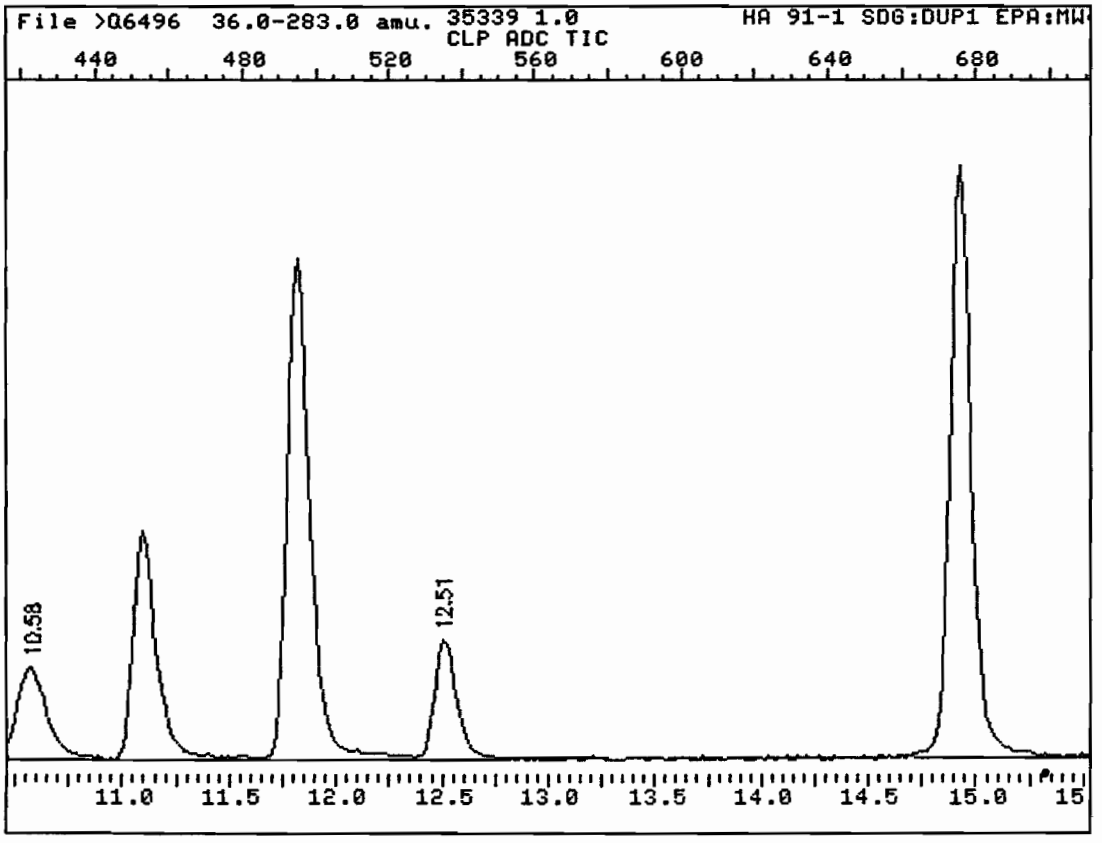
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

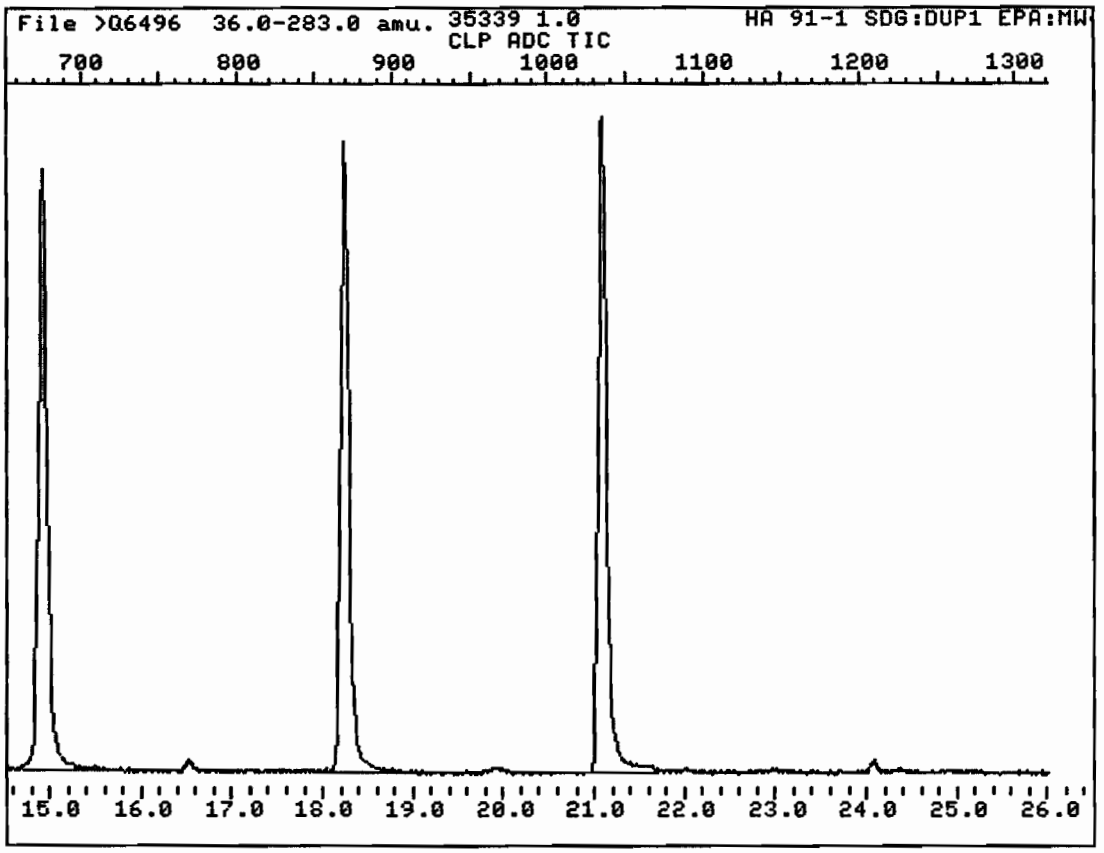
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:01 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 12:25



Instrument ID: 1 **Analyzed on: 8/29/95 12:25**

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35340

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: AZ471

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	2.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	7.	J
75-34-3	1,1-Dichloroethane	3.	J
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	67.	
71-55-6	1,1,1-Trichloroethane	43.	
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	6.	J
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	680.	E
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	7.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00161

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW5

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35340

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: AZ471

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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27.					
28.					
29.					
30.					

00162

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ471.D
Acq On : ~~26 Aug 95~~ 7:28 pm 28 Aug 95
Sample : 35340 1.0
Misc : HA 91-1 SDG:DUP1 EPA:MW5
Quant Time: Sep 5 20:09 1995

(DL) 9/5/95

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Tue Sep 05 18:19:01 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.01	128	347441	50.00	ug/l	0.07
17) 1,4-Difluorobenzene	11.81	114	1463142	50.00	ug/l	0.11
29) Chlorobenzene-d5	18.57	117	1148617	50.00	ug/l	0.05
System Monitoring Compounds						%Recovery
15) 1,2-Dichloroethane-d4	10.09	65	602484	50.78	ug/l	101.57%
31) Toluene-d8	15.53	98	1437927	52.77	ug/l	105.55%
41) Bromofluorobenzene	21.33	95	921362	50.23	ug/l	100.46%
Target Compounds						Qvalue
2) Chloromethane	0.00	50		Not Detected		
3) Vinyl chloride	0.00	62		Not Detected		
4) Chloroethane	0.00	64		Not Detected		
5) Bromomethane	0.00	94		Not Detected		
6) Acetone	4.80	43	9656	2.05	ug/l	97
7) 1,1-Dichloroethene	5.91	96	65595	7.08	ug/l	98
8) Methylene chloride	0.00	84		Not Detected		
9) Carbon disulfide	0.00	76		Not Detected		
10) trans-1,2-Dichloroethene	0.00	96		Not Detected		
11) 1,1-Dichloroethane	7.61	63	57511	2.66	ug/l	99
12) 2-Butanone (MEK)	0.00	43		Not Detected		
13) cis-1,2-Dichloroethene	8.78	96	705450	67.17	ug/l	97
14) Chloroform	0.00	83		Not Detected		
16) 1,2-Dichloroethane	0.00	62		Not Detected		
18) 1,1,1-Trichloroethane	10.63	97	669911	42.59	ug/l	98
19) Carbon tetrachloride	0.00	117		Not Detected		
20) Benzene	0.00	78		Not Detected		
21) Trichloroethene	12.87	130	8036823	681.44	ug/l	99
22) 1,2-Dichloropropane	0.00	63		Not Detected		
23) Bromodichloromethane	12.85	83	111444	5.87	ug/l	98
24) cis-1,3-Dichloropropene	0.00	75		Not Detected		
25) trans-1,3-Dichloropropene	0.00	75		Not Detected		
26) 1,1,2-Trichloroethane	0.00	97		Not Detected		
27) Dibromochloromethane	0.00	129		Not Detected		
28) Bromoform	0.00	173		Not Detected		
30) 4-Methyl-2-pentanone (MIB	0.00	43		Not Detected		
32) Toluene	0.00	92		Not Detected		
33) 2-Hexanone	0.00	43		Not Detected		
34) Tetrachloroethene	17.52	164	66902	6.73	ug/l	98
35) Chlorobenzene	0.00	112		Not Detected		
36) Ethylbenzene	0.00	91		Not Detected		
37) (m+p)Xylene	0.00	91		Not Detected		
38) o-Xylene	0.00	91		Not Detected		
39) Styrene	0.00	104		Not Detected		

00163

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ471.D
Acq On : ~~26 Aug 95~~ 7:28 pm 28 Aug 95
Sample : 35340 1.0
Misc : HA 91-1 SDG:DUP1 EPA:MW5 (DL) 9/5/95
Quant Time: Sep 5 20:09 1995

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Tue Sep 05 18:19:01 1995
Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	

00164

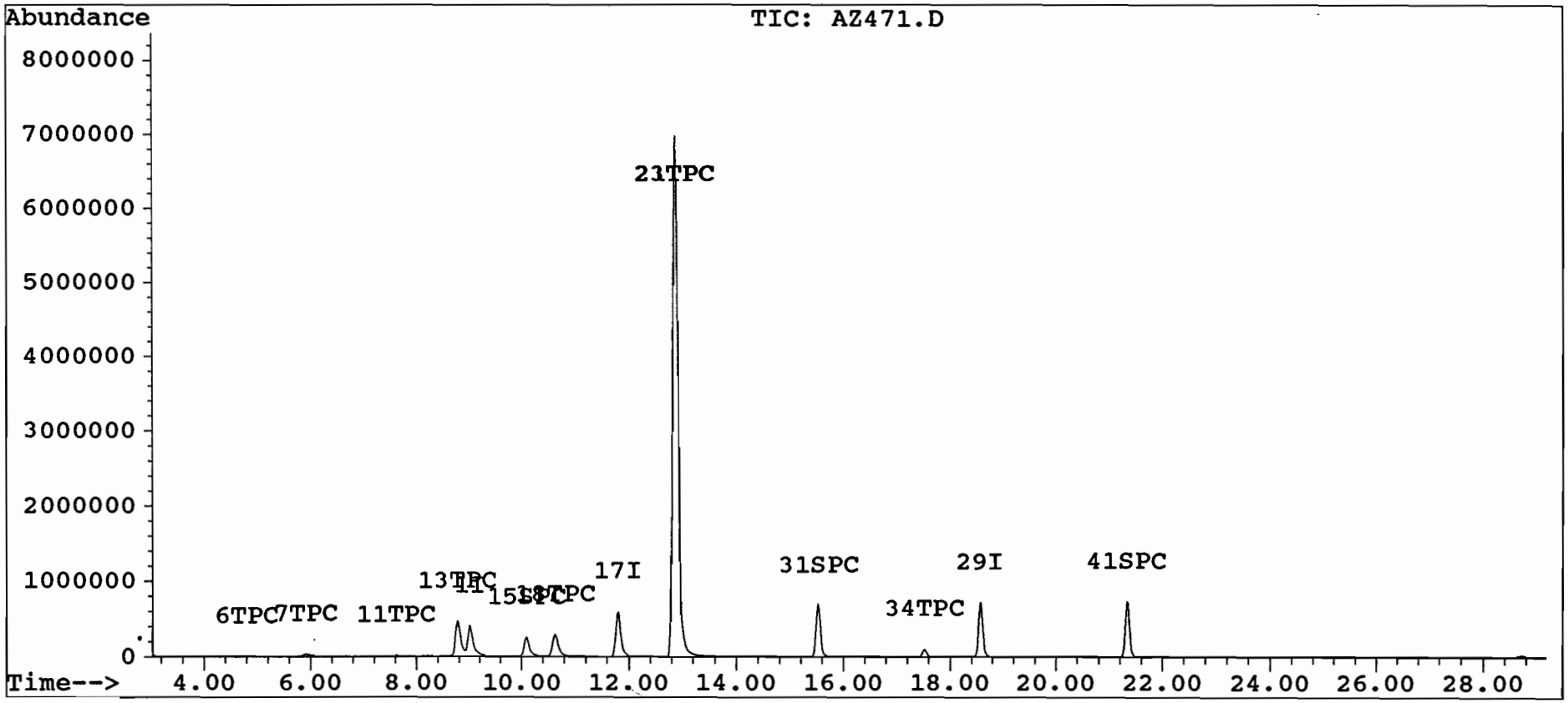
(#) = qualifier out of range (m) = manual integration

Quantita n Report

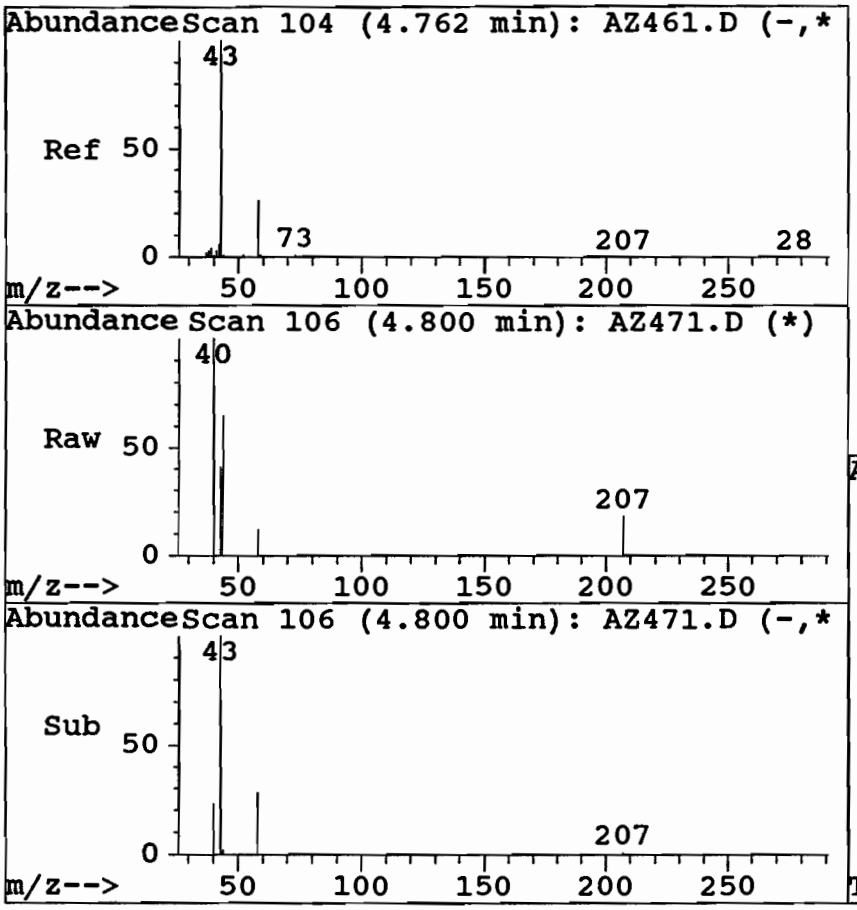
Data File : C:\HPCHEM\1\DATA\AZ471.D
Acq On : ~~26 Aug 95~~ 7:28 pm 28Aug 95 (DL) 9/5/95
Sample : 35340 1.0
Misc : HA 91-1 SDG:DUP1 EPA:MW5
Quant Time: Sep 5 20:09 1995

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Tue Sep 05 18:19:01 1995
Response via : Single Level Calibration



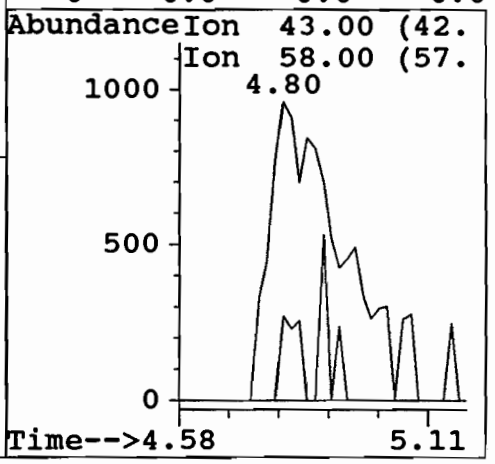
00165

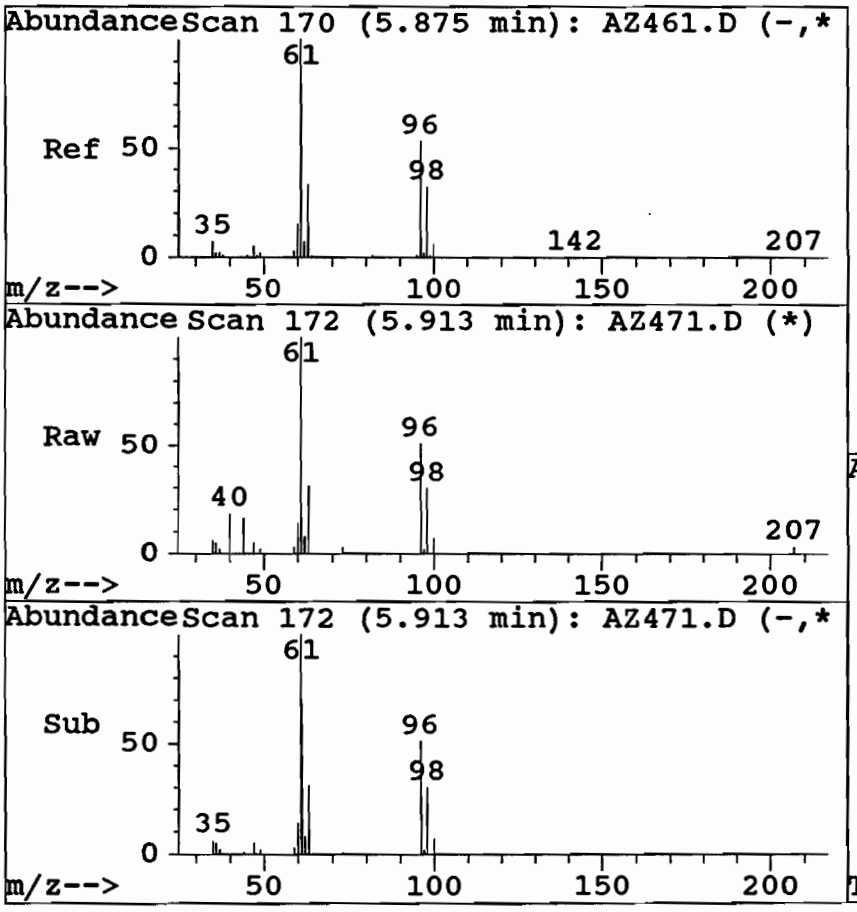


#6
Acetone
Concen: 2.05 ug/l
RT: 4.80 min Scan# 106
Delta R.T. 0.04 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:43 Resp: 9656

Ion	Ratio	Lower	Upper
43	100		
58	28.1	13.5	40.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

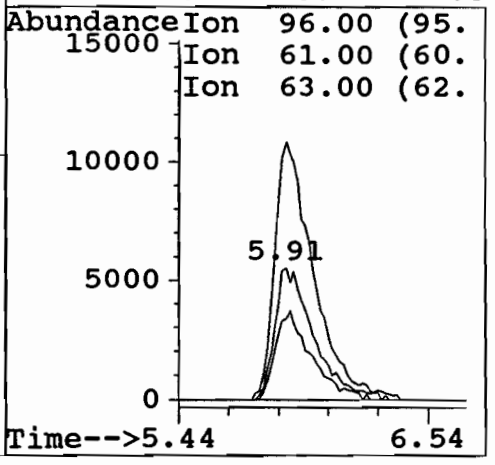


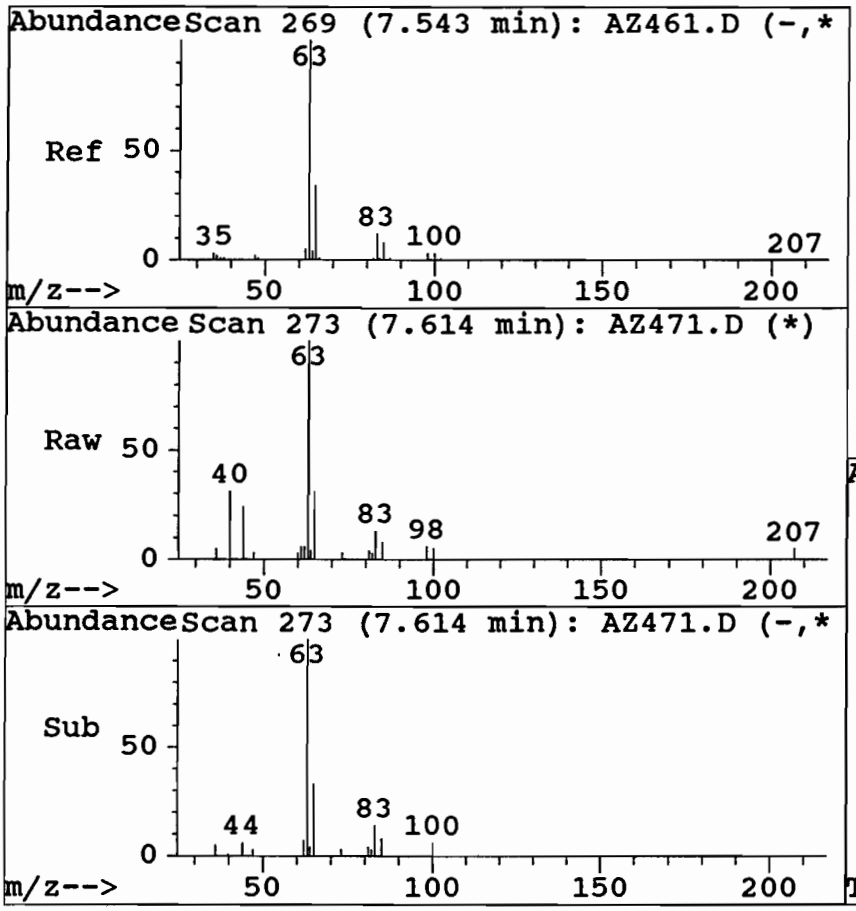


#7
1,1-Dichloroethene
Concen: 7.08 ug/l
RT: 5.91 min Scan# 172
Delta R.T. 0.04 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:96 Resp: 65595

Ion	Ratio	Lower	Upper
96	100		
61	196.7	136.8	254.1
63	61.0	46.3	86.0
0	0.0	0.0	0.0

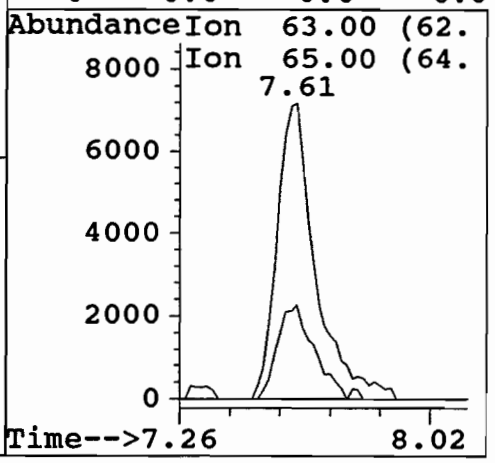


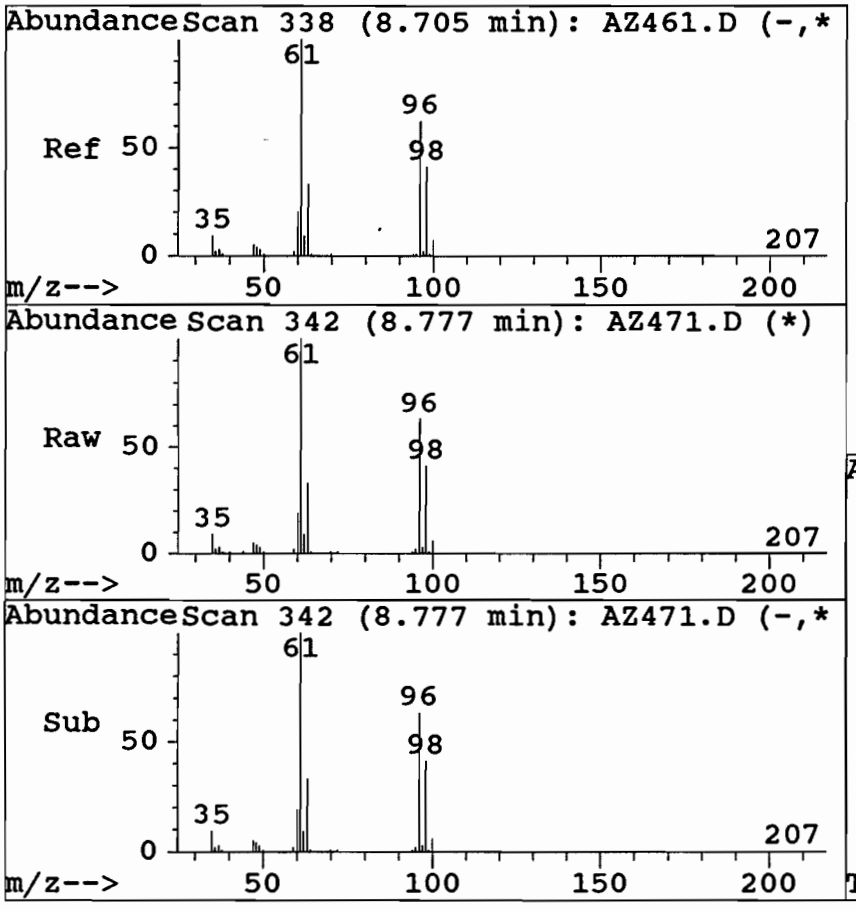


#11
1,1-Dichloroethane
Concen: 2.66 ug/l
RT: 7.61 min Scan# 273
Delta R.T. 0.07 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:63 Resp: 57511

Ion	Ratio	Lower	Upper
63	100		
65	31.4	22.3	41.4
0	0.0	0.0	0.0
0	0.0	0.0	0.0

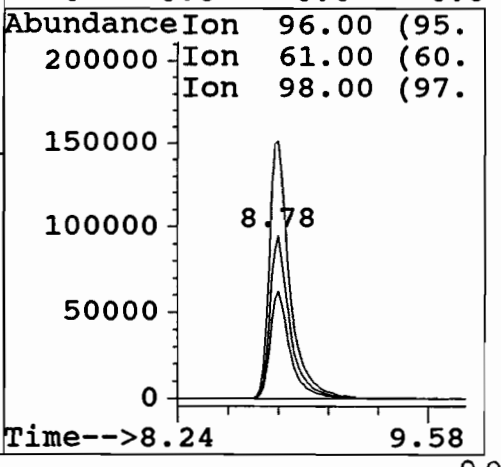




#13
cis-1,2-Dichloroethene
Concen: 67.17 ug/l
RT: 8.78 min Scan# 342
Delta R.T. 0.07 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:96 Resp: 705450

Ion	Ratio	Lower	Upper
96	100		
61	159.0	115.0	213.5
98	65.5	46.8	86.9
0	0.0	0.0	0.0



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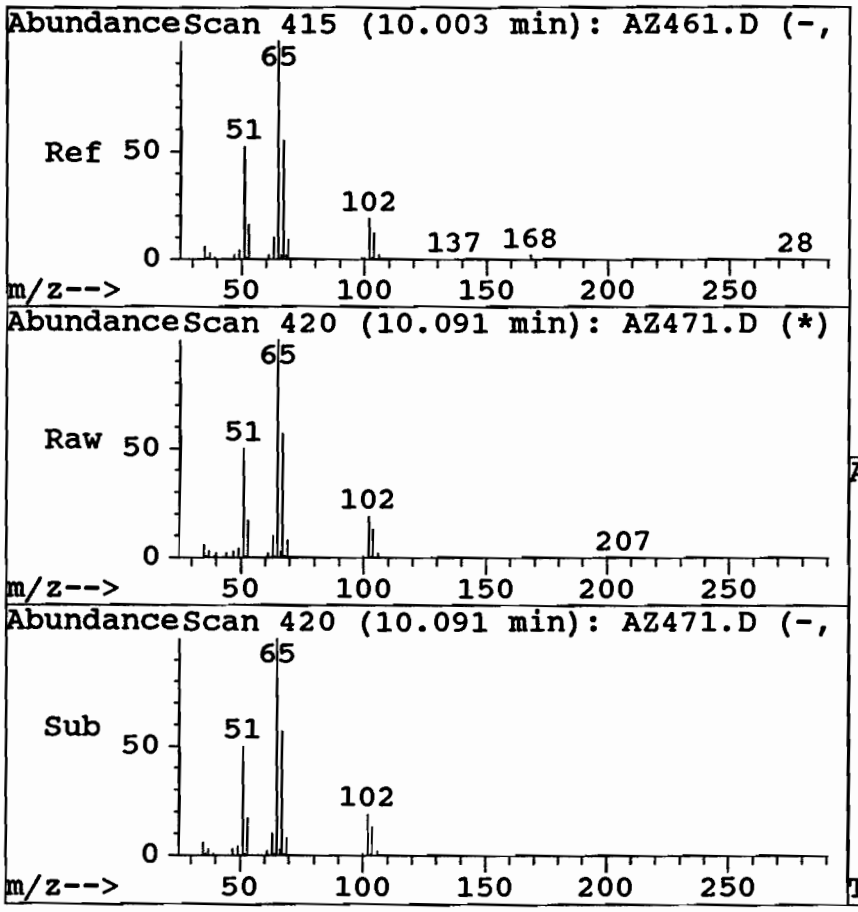
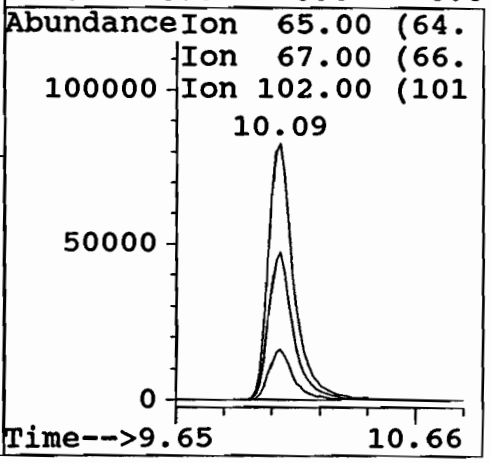
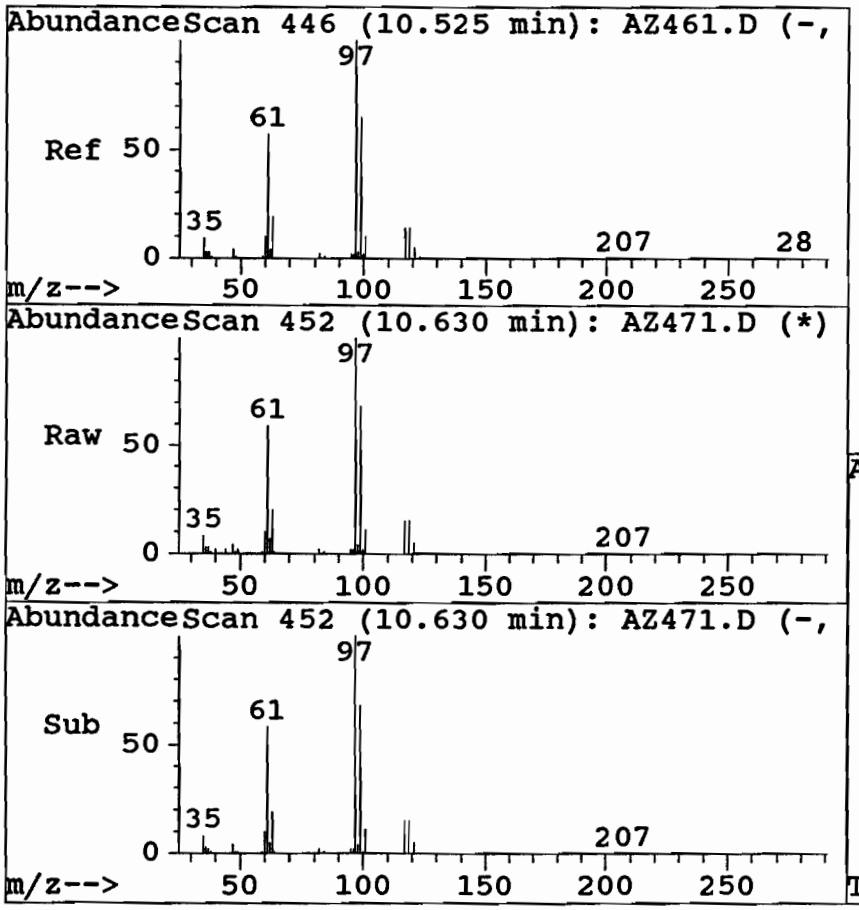


#15
1,2-Dichloroethane-d4
Concen: 50.78 ug/l
RT: 10.09 min Scan# 420
Delta R.T. 0.09 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:65 Resp: 602484

Ion	Ratio	Lower	Upper
65	100		
67	57.3	43.9	65.8
102	19.5	15.8	23.7
0	0.0	0.0	0.0

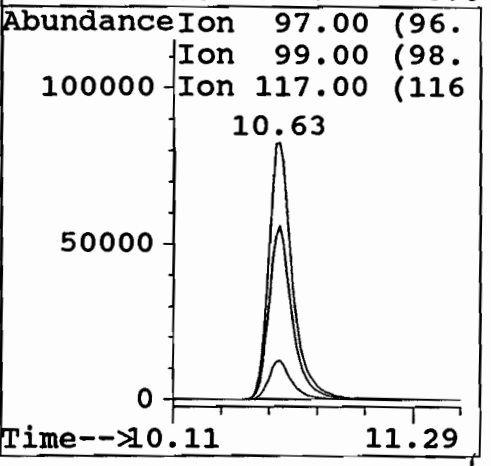


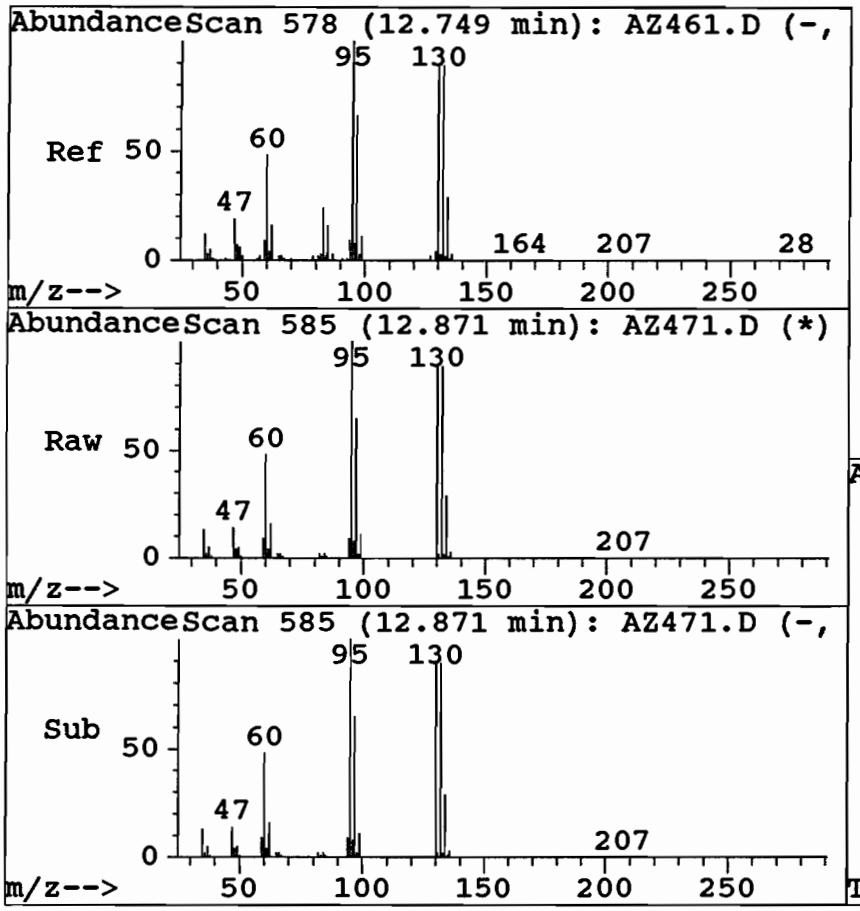


#18
1,1,1-Trichloroethane
Concen: 42.59 ug/l
RT: 10.63 min Scan# 452
Delta R.T. 0.11 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:97 Resp: 669911

Ion	Ratio	Lower	Upper
97	100		
99	67.8	46.4	86.1
117	15.0	10.4	19.3
0	0.0	0.0	0.0

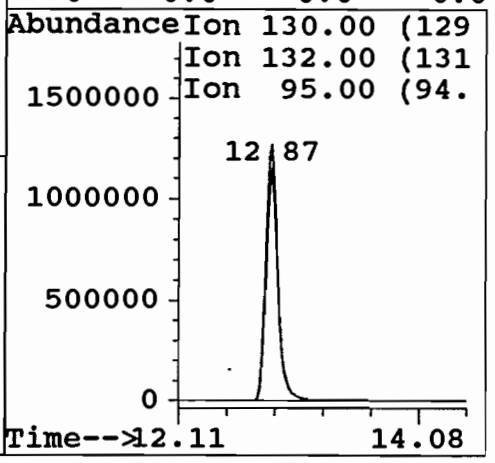


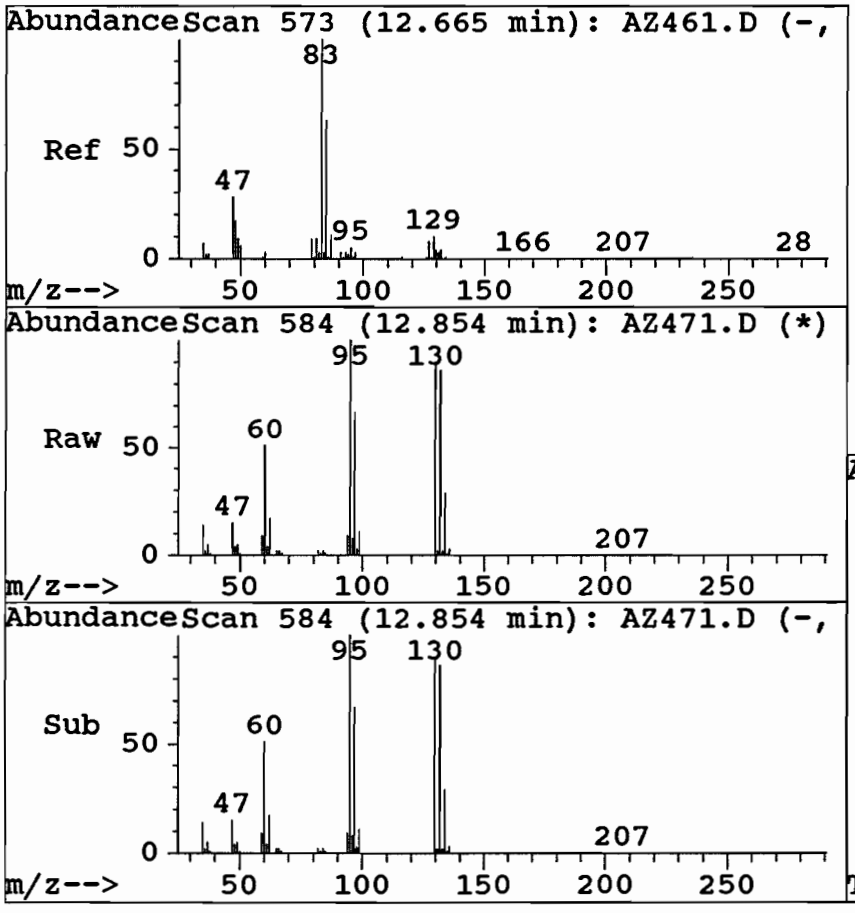


#21
Trichloroethene
Concen: 681.44 ug/l
RT: 12.87 min Scan# 585
Delta R.T. 0.12 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:130 Resp: 8036823

Ion	Ratio	Lower	Upper
130	100		
132	98.2	78.7	118.0
95	110.5	89.6	134.3
0	0.0	0.0	0.0

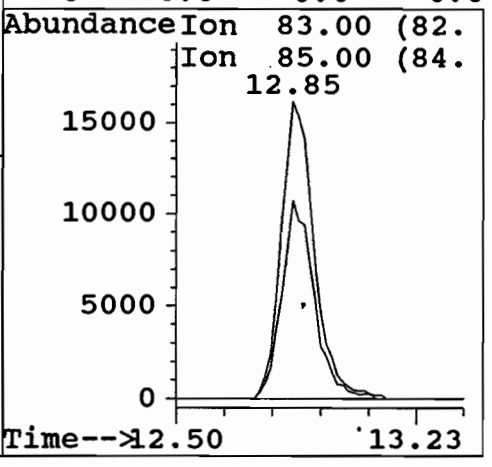




#23
Bromodichloromethane
Concen: 5.87 ug/l
RT: 12.85 min Scan# 584
Delta R.T. 0.19 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:83 Resp: 111444

Ion	Ratio	Lower	Upper
83	100		
85	66.2	48.4	80.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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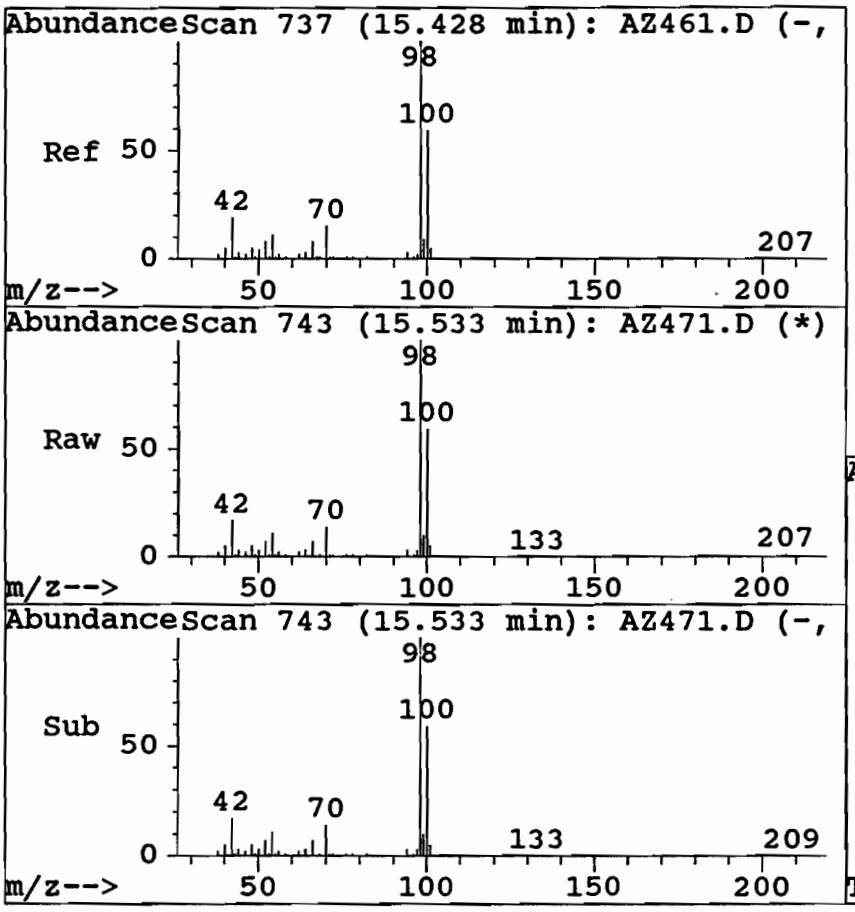
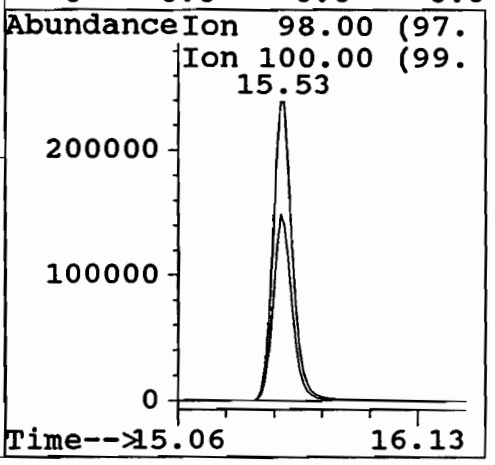
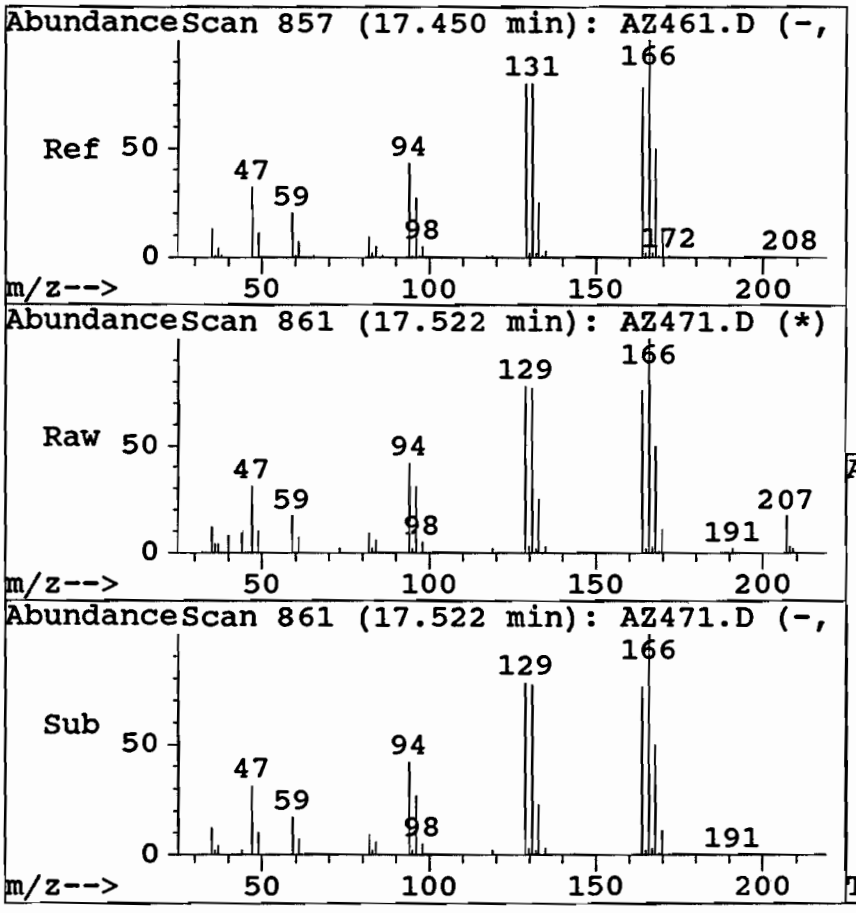


#31
Toluene-d8
Concen: 52.77 ug/l
RT: 15.53 min Scan# 743
Delta R.T. 0.11 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:98 Resp: 1437927

Ion	Ratio	Lower	Upper
98	100		
100	59.0	47.0	70.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

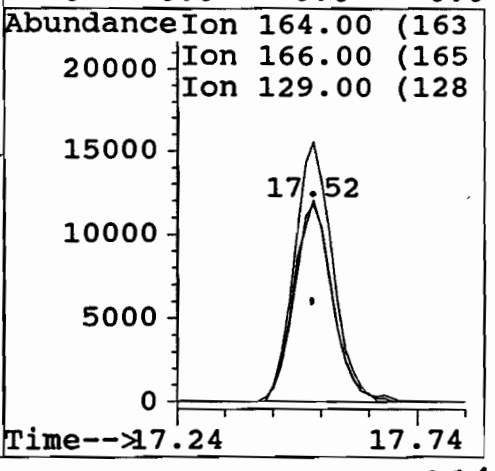




#34
Tetrachloroethene
Concen: 6.73 ug/l
RT: 17.52 min Scan# 861
Delta R.T. 0.07 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:164 Resp: 66902

Ion	Ratio	Lower	Upper
164	100		
166	132.1	103.7	155.5
129	102.6	80.9	121.3
0	0.0	0.0	0.0



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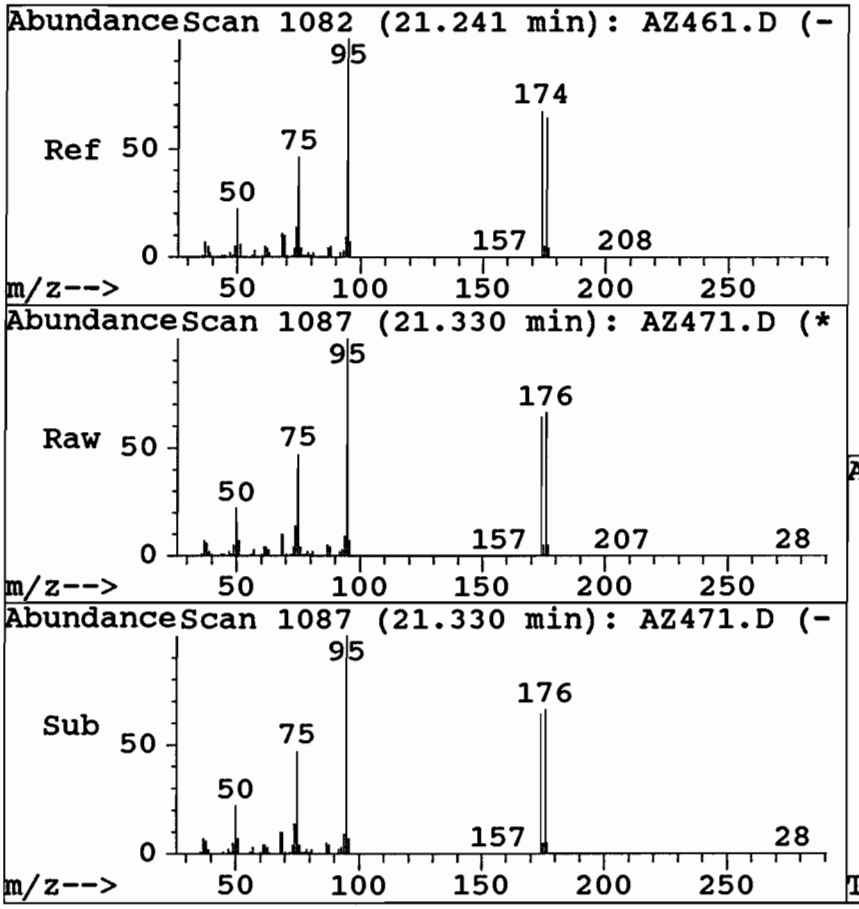
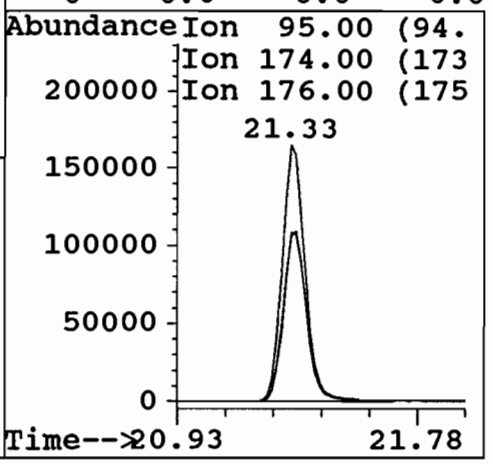


#41
Bromofluorobenzene
Concen: 50.23 ug/l
RT: 21.33 min Scan# 1087
Delta R.T. 0.09 min
Lab File: AZ471.D
Acq: 26 Aug 95 7:28 pm

Tgt Ion:95 Resp: 921362

Ion	Ratio	Lower	Upper
95	100		
174	64.2	47.2	87.5
176	65.7	45.3	84.0
0	0.0	0.0	0.0



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\AZ471.D
Acq On : ~~26 Aug 95~~ 7:28 pm 28 Aug 95 (DL) 9/5/95
Sample : 35340 1.0
Misc : HA 91-1 SDG:DUP1 EPA:MW5

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Library : NBS54K.L

No Library Search Compounds Detected

00171

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5DL

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35340DL

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6497

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene chloride	50.	U
67-64-1	Acetone	16.	DJ
75-15-0	Carbon Disulfide	50.	U
75-35-4	1,1-Dichloroethene	50.	U
75-34-3	1,1-Dichloroethane	50.	U
156-60-5	trans-1,2-Dichloroethene	50.	U
67-66-3	Chloroform	50.	U
107-06-2	1,2-Dichloroethane	50.	U
78-93-3	2-Butanone	50.	U
156-59-2	cis-1,2-Dichloroethene	48.	DJ
71-55-6	1,1,1-Trichloroethane	23.	DJ
56-23-5	Carbon tetrachloride	50.	U
75-27-4	Bromodichloromethane	50.	U
78-87-5	1,2-Dichloropropane	50.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U
79-01-6	Trichloroethene	540.	D
124-48-1	Dibromochloromethane	50.	U
79-00-5	1,1,2-Trichloroethane	50.	U
71-43-2	Benzene	50.	U
50061-02-6	trans-1,3-Dichloropropene	50.	U
75-25-2	Bromoform	50.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	50.	U
79-34-5	1,1,2,2-Tetrachloroethane	50.	U
108-88-3	Toluene	50.	U
108-90-7	Chlorobenzene	50.	U
100-41-4	Ethylbenzene	50.	U
100-42-5	Styrene	50.	U
108-38-3	(m+p)Xylene	50.	U
95-47-6	o-Xylene	50.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW5DL

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35340DL

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6497

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

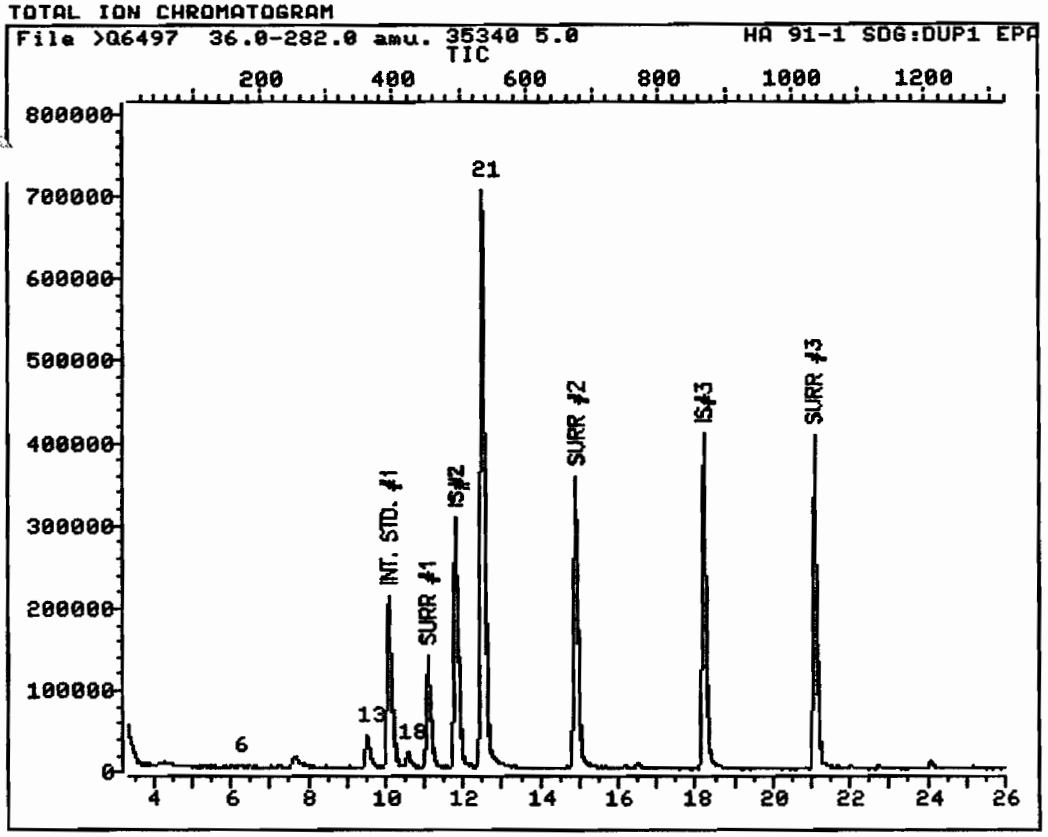
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 19:54
Output File: ^Q6497::D5 Injected at: 950829 12:59
Data File: >Q6497::D5 Dilution Factor: 1.00000
Acq: 35340 5.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW5DL

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.09	128.0	214400	50.00	ppb	98
6)	Acetone	6.20	43.0	11260	3.27	ppb	93
13)	cis-1,2-Dichloroethene	9.50	96.0	66651	9.51	ppb	91
16)	1,2-Dichloroethane-d4	11.08	65.0	347078	47.49	ppb	91
17)	*1,4-Difluorobenzene	11.80	114.0	921415	50.00	ppb	82
18)	1,1,1-Trichloroethane	10.55	97.0	52755	4.58	ppb	92
21)	Trichloroethene	12.49	130.0	1002626	107.92	ppb	98
29)	*Chlorobenzene-d5	18.23	117.0	842452	50.00	ppb	95
31)	Toluene-d8	14.90	98.0	855296	48.95	ppb	89
41)	Bromofluorobenzene	21.06	95.0	556592	50.95	ppb	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM

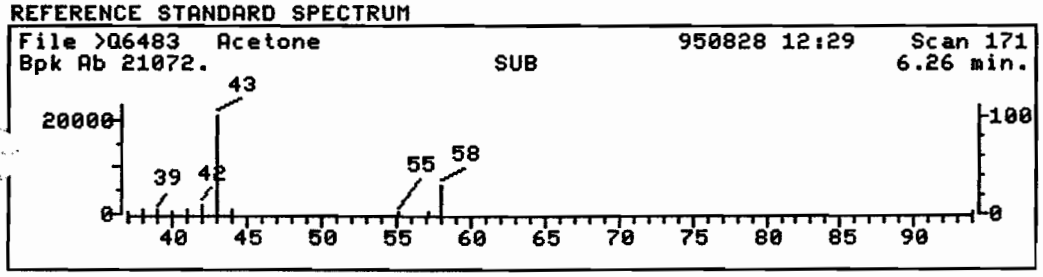


Data File: >Q6497::D5 Quant Output File: ^Q6497::D5
Name: 35340 5.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW5DL

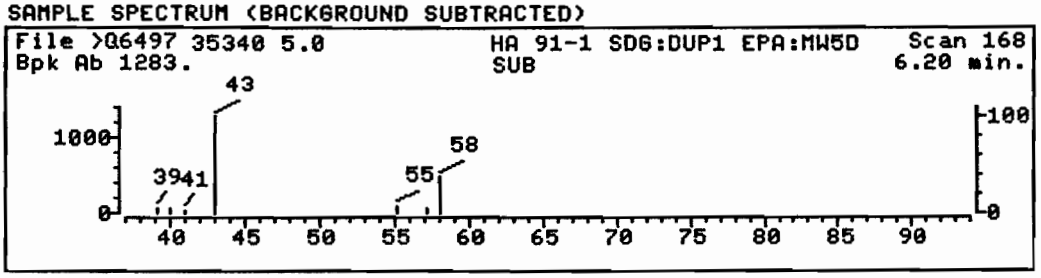
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 19:54
Injected at: 950829 12:59

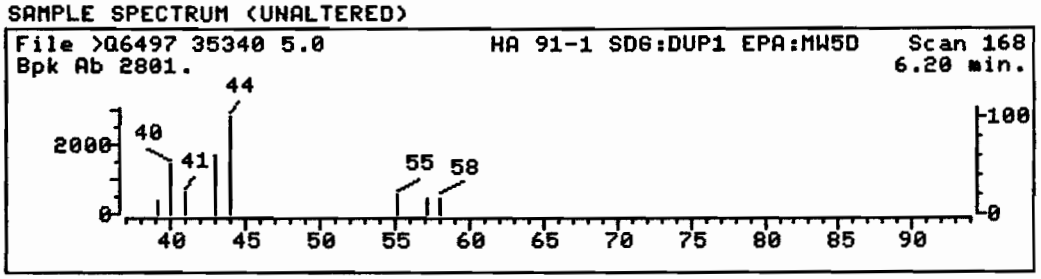
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



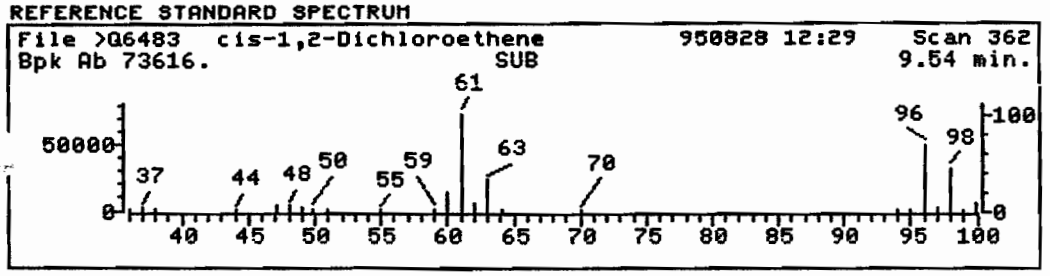
SAMPLE SPECTRUM (UNALTERED)



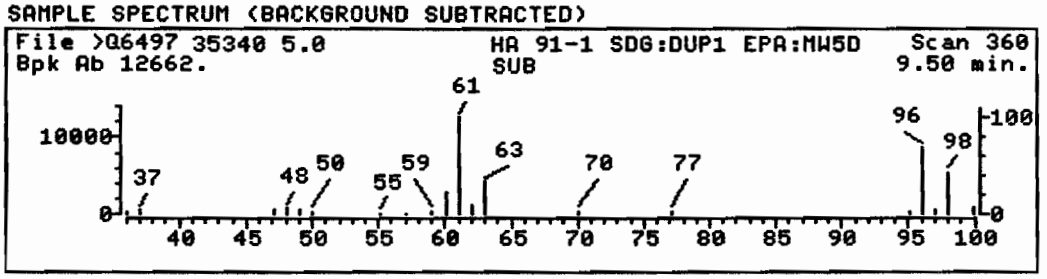
Data File: >Q6497::D5 Quant Output File: ^Q6497::D5
Name: 35340 5.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW5DL
Quant Time: 950828 19:54 Quant ID File: IDECLP::QT
Injected at: 950829 12:59 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 6
Compound Name : Acetone
Scan Number : 168
Retention Time: 6.20 min.
Quant Ion : 43.0
Area : 11260
Concentration : 3.27 ppb
q-value : 93

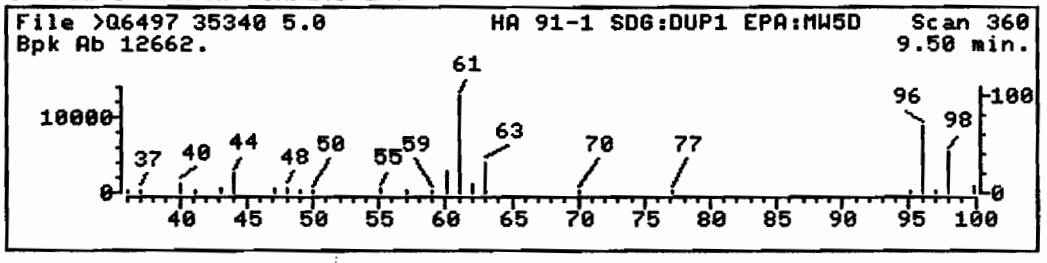
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



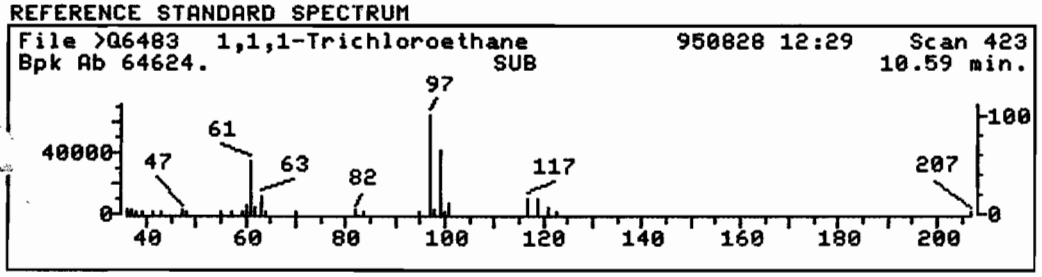
SAMPLE SPECTRUM (UNALTERED)



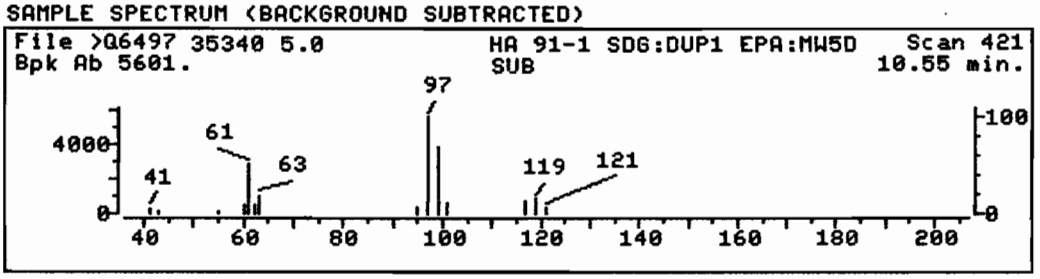
Data File: >Q6497::D5 Quant Output File: ^Q6497::D5
Name: 35340 5.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW5DL
Quant Time: 950828 19:54 Quant ID File: IDECLP::QT
Injected at: 950829 12:59 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 360
Retention Time: 9.50 min.
Quant Ion : 96.0
Area : 66651
Concentration : 9.51 ppb
q-value : 91

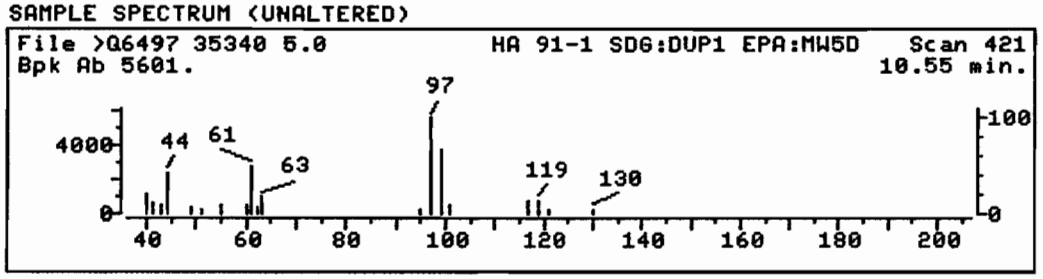
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



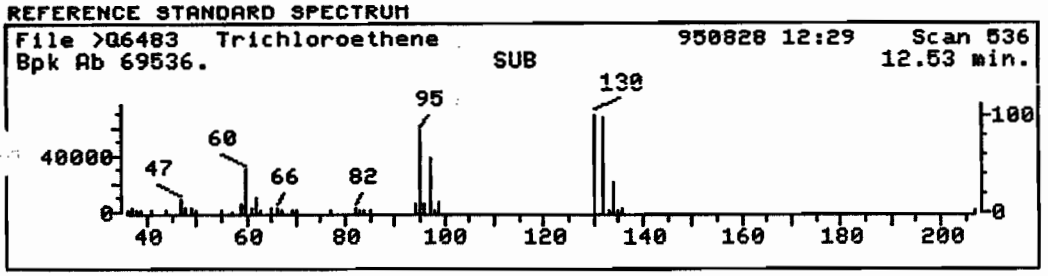
SAMPLE SPECTRUM (UNALTERED)



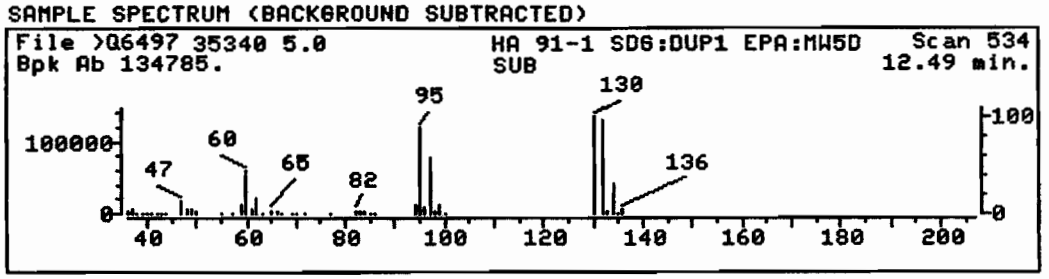
Data File: >Q6497::D5 Quant Output File: ^Q6497::D5
Name: 35340 5.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW5DL
Quant Time: 950828 19:54 Quant ID File: IDECLP::QT
Injected at: 950829 12:59 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 421
Retention Time: 10.55 min.
Quant Ion : 97.0
Area : 52755
Concentration : 4.58 ppb
q-value : 92

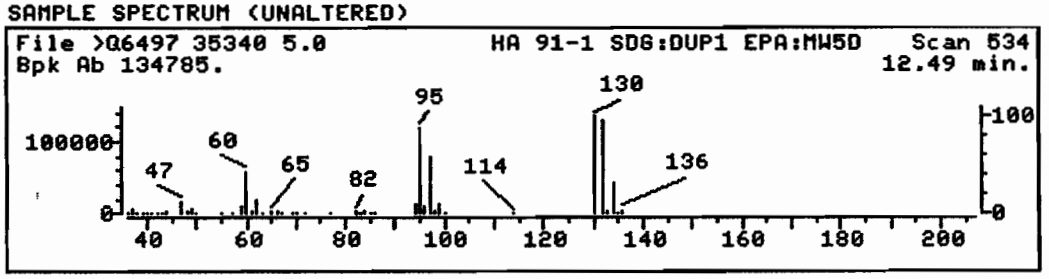
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6497::D5 Quant Output File: ^Q6497::D5
Name: 35340 5.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW5DL
Quant Time: 950828 19:54 Quant ID File: IDECLP::QT
Injected at: 950829 12:59 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 534
Retention Time: 12.49 min.
Quant Ion : 130.0
Area : 1002626
Concentration : 107.92 ppb
q-value : 98

MS data file header from : >Q6497::D5

Sample: 35340 5.0 Operator: RODH 8/29/95 12:59
Misc : HA 91-1 SDG:DUP1 EPA:MW5DL
Vs. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 3 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

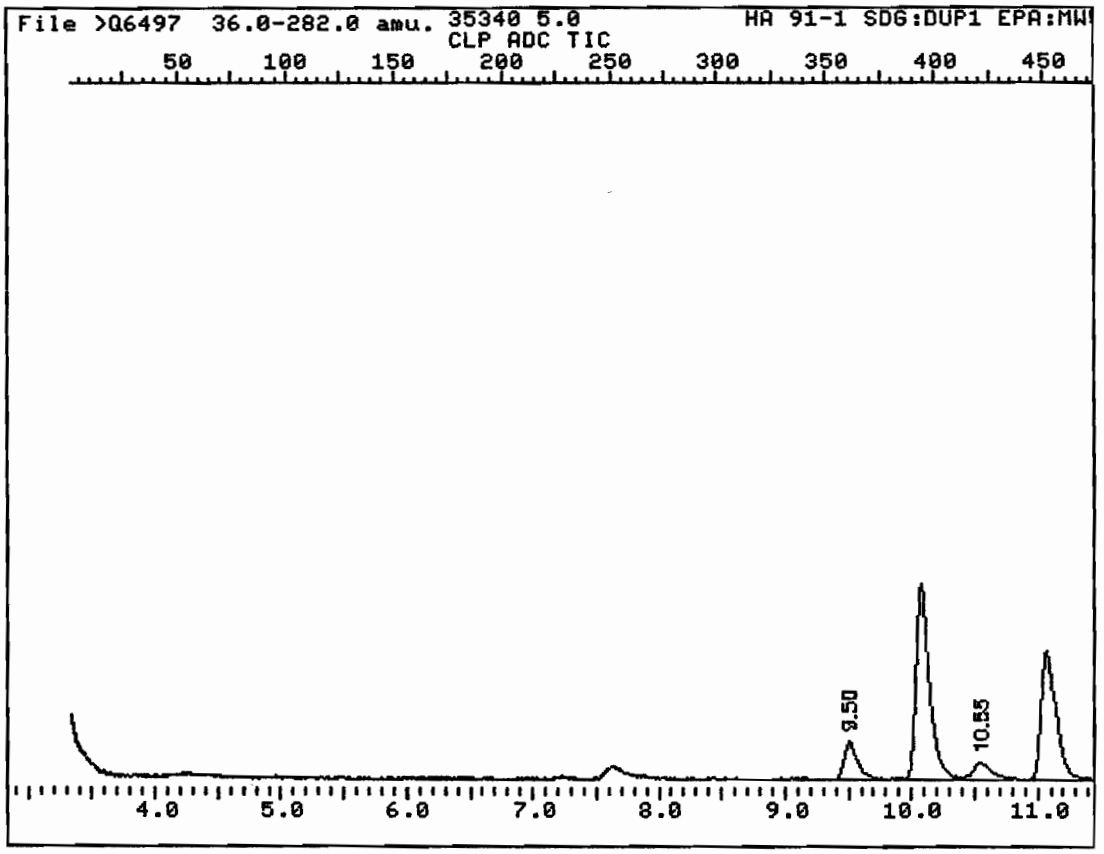
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1535514.	10.09	3.34 - 10.94
2	50.0	2236859.	11.80	10.94 - 15.02
3	50.0	2588140.	18.23	15.02 - 26.01

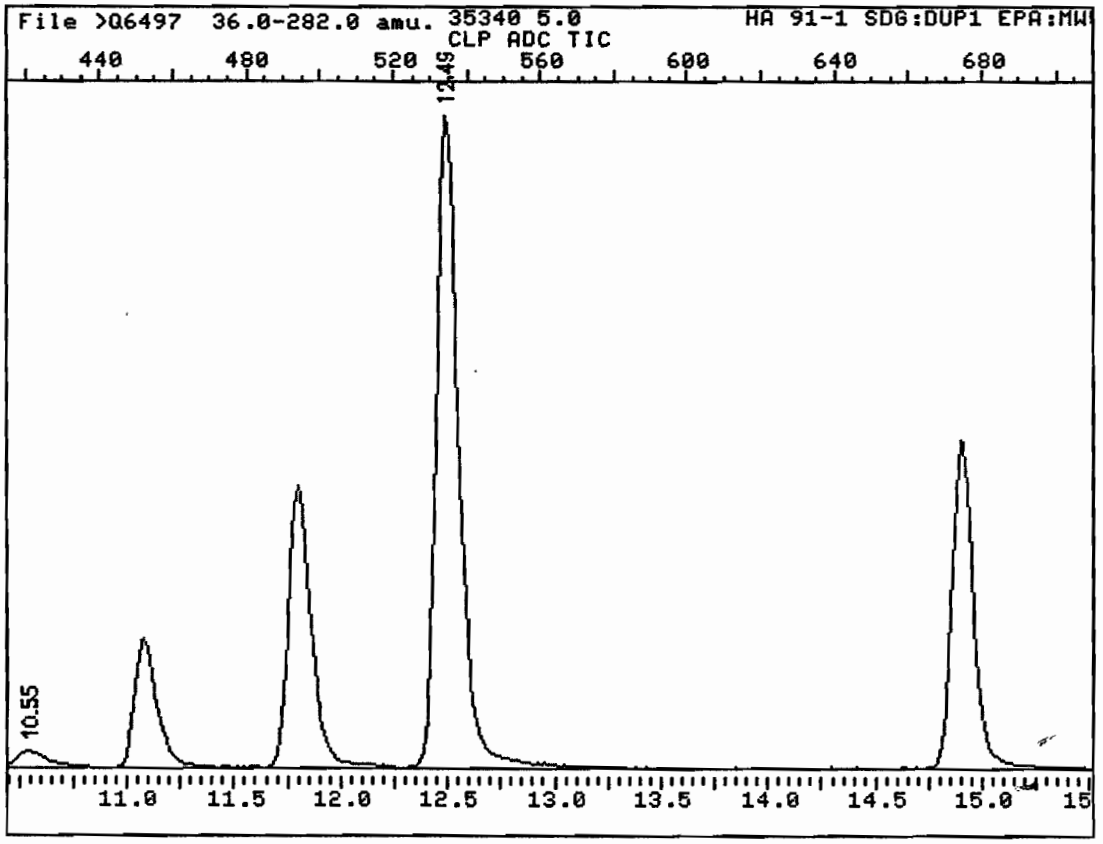
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 5.00

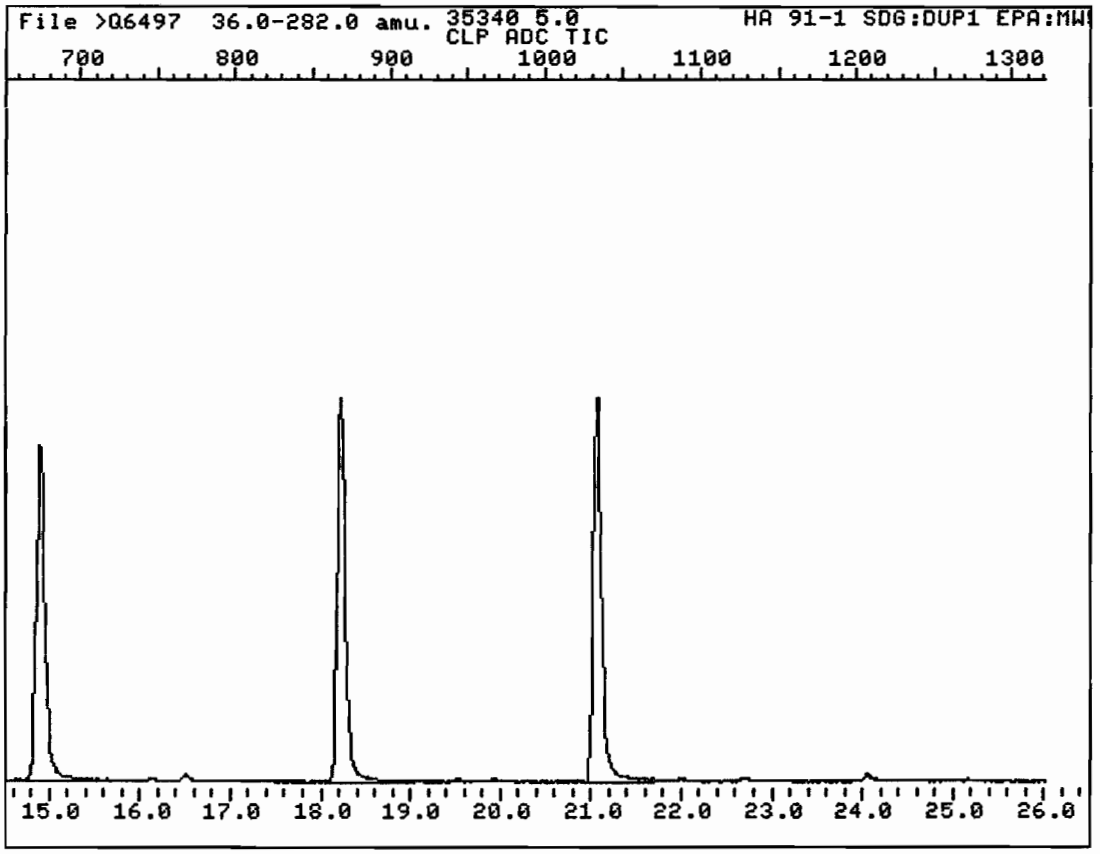
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:20 AM SAT., 2 SEPT, 1995





Instrument ID: 1 Analyzed on: 8/29/95 12:59



Instrument ID: 1 Analyzed on: 8/29/95 12:59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35341

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6498

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	2.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00182

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW6

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35341

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6498

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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23.					
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25.					
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27.					
28.					
29.					
30.					

00183

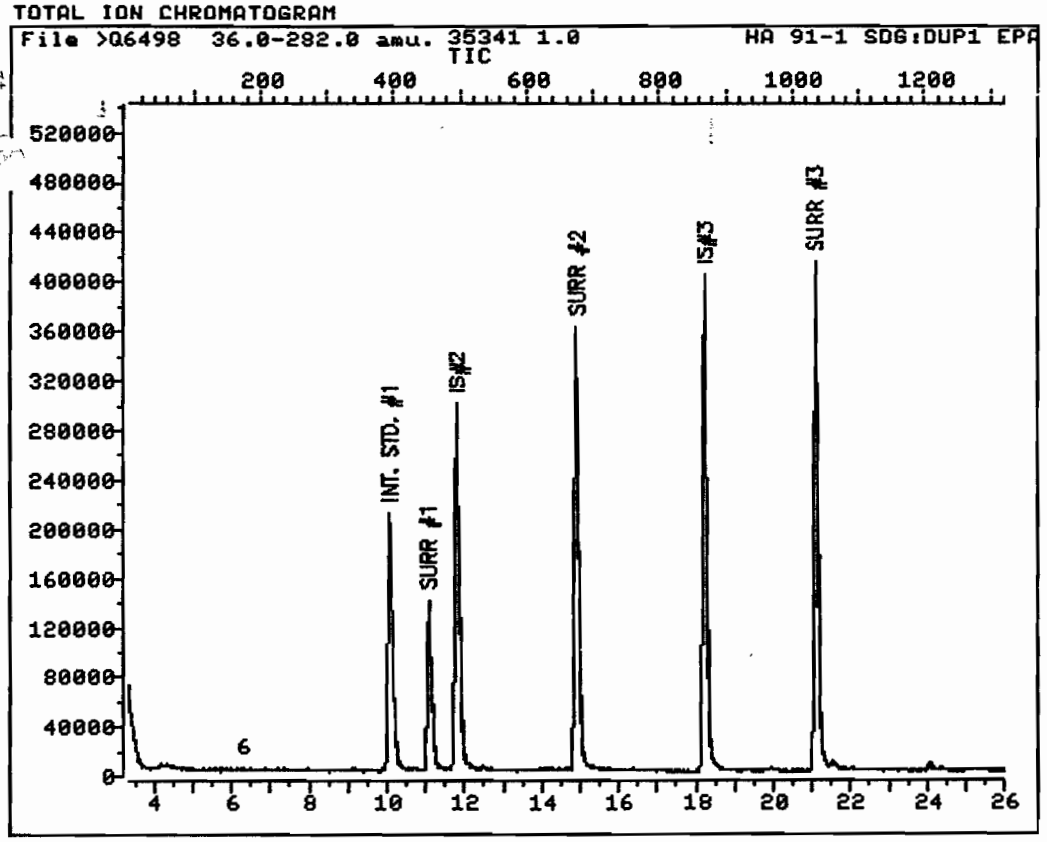
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 19:57
Output File: ^Q6498::D5 Injected at: 950829 01:33
Data File: >Q6498::D5 Dilution Factor: 1.00000
File: 35341 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW6

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.07	128.0	213611	50.00	ppb	97
6)	Acetone	6.22	43.0	8256	2.41	ppb	90
16)	1,2-Dichloroethane-d4	11.06	65.0	354156	48.64	ppb	92
17)	*1,4-Difluorobenzene	11.80	114.0	911641	50.00	ppb	82
29)	*Chlorobenzene-d5	18.23	117.0	844167	50.00	ppb	97
31)	Toluene-d8	14.91	98.0	852676	48.70	ppb	86
41)	Bromofluorobenzene	21.08	95.0	554024	50.61	ppb	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM

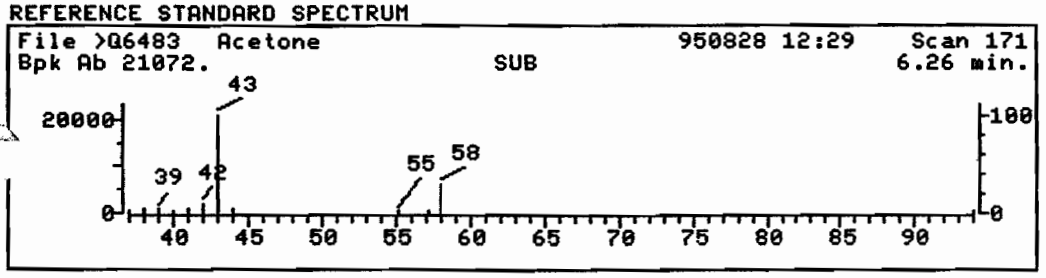


Data File: >Q6498::D5 Quant Output File: ^Q6498::D5
Name: 35341 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:MW6

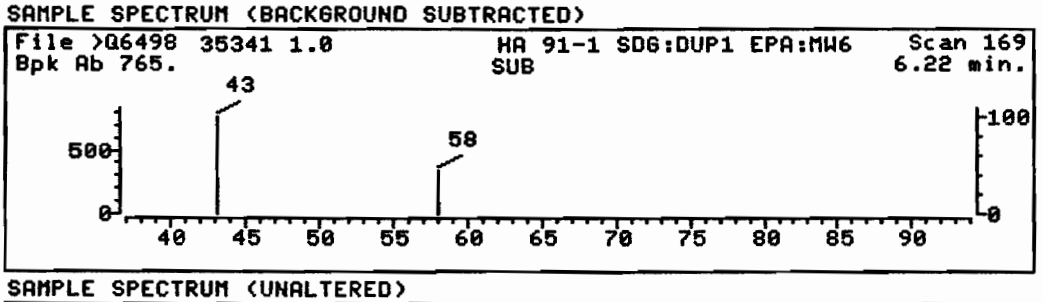
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 19:57
Injected at: 950829 01:33

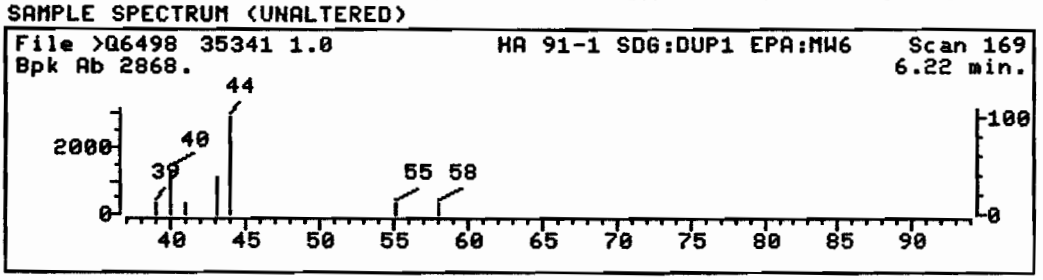
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6498::D5
Name: 35341 1.0
Misc: HA 91-1 SDG:DUP1 EPA:MW6
Quant Time: 950828 19:57
Injected at: 950829 01:33
Last Qcal Time: 950828 21:22

Quant Output File: ^Q6498::D5
Instrument ID: 1

Quant ID File: IDECLP::QT
Last Calibration: 950725 16:02

Compound No : 6
Compound Name : Acetone
Scan Number : 169
Retention Time: 6.22 min.
Quant Ion : 43.0
Area : 8256
Concentration : 2.41 ppb
q-value : 90

MS data file header from : >Q6498::D5

Sample: 35341 1.0 Operator: RODH 8/29/95 1:33
Misc : HA 91-1 SDG:DUP1 EPA:MW6
Ins. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 4 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

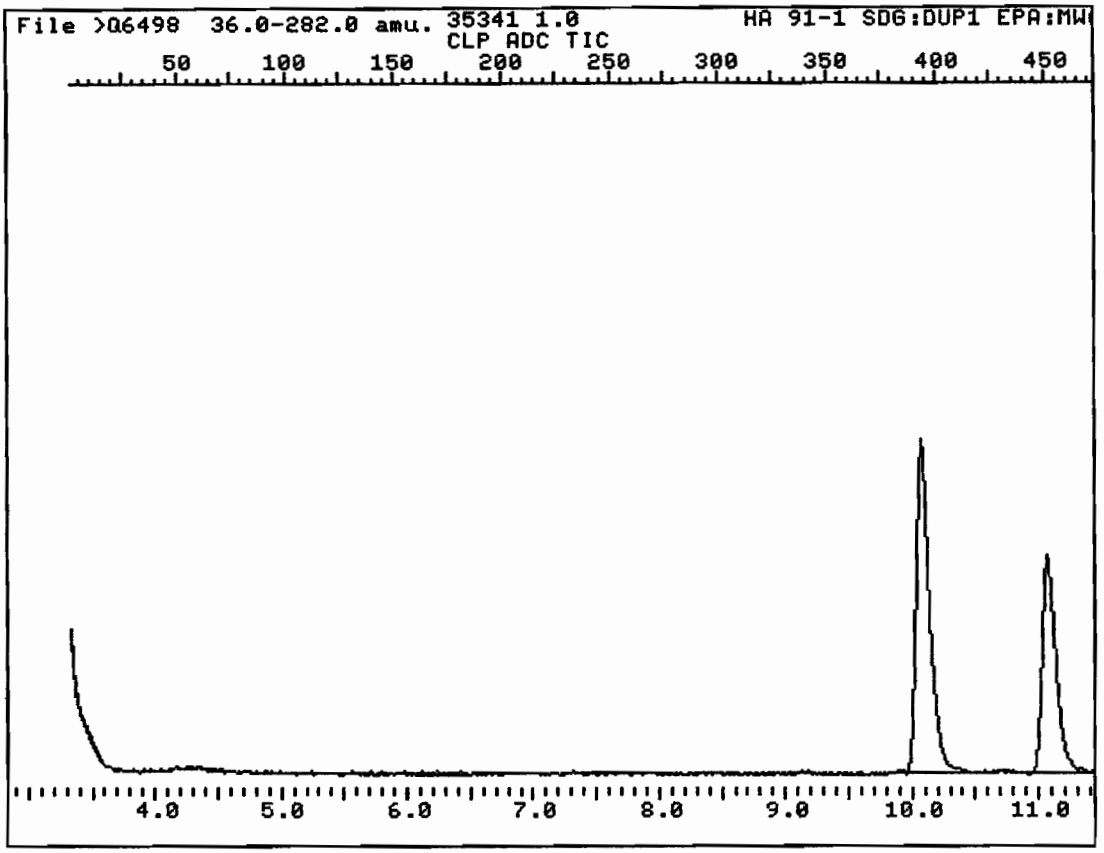
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1568487.	10.07	3.34 - 10.93
2	50.0	2205365.	11.80	10.93 - 15.01
3	50.0	2580560.	18.23	15.01 - 26.00

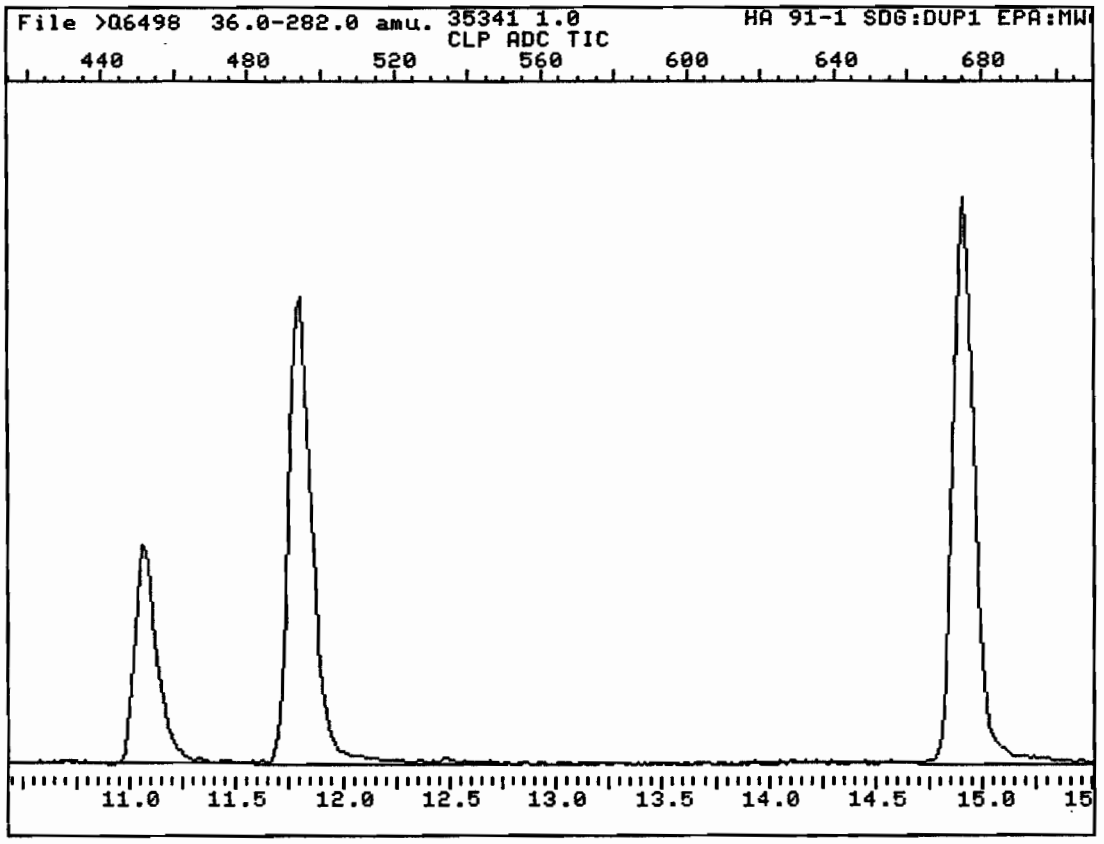
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

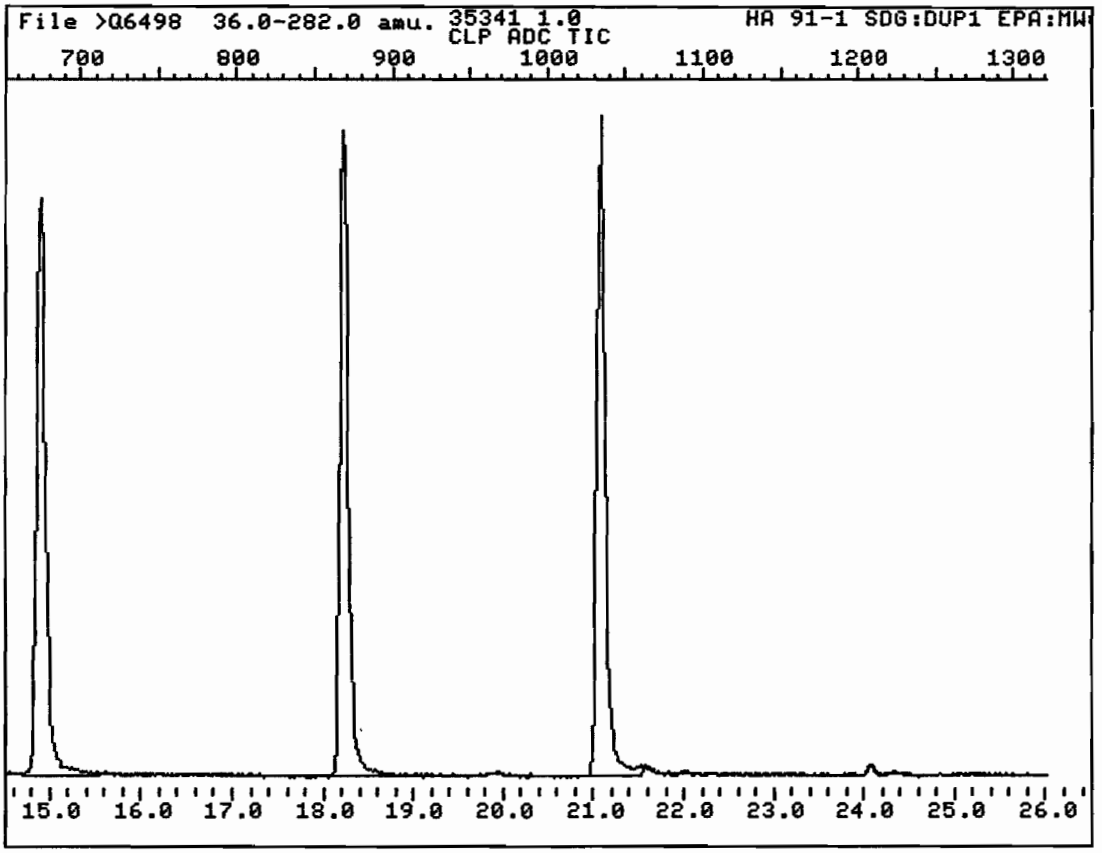
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} \times \text{Area Unknown}}{\text{Area Int Std}} \times \text{Correction Factor}$$

12:07 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 1:33



Instrument ID: 1 Analyzed on: 8/29/95 1:33

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SUP

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35351

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6514

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	2.	J
75-34-3	1,1-Dichloroethane	4.	J
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	4.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	3.	J
71-55-6	1,1,1-Trichloroethane	21.	
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	170.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	4.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00190

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SUP

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35351

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6514

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
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22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

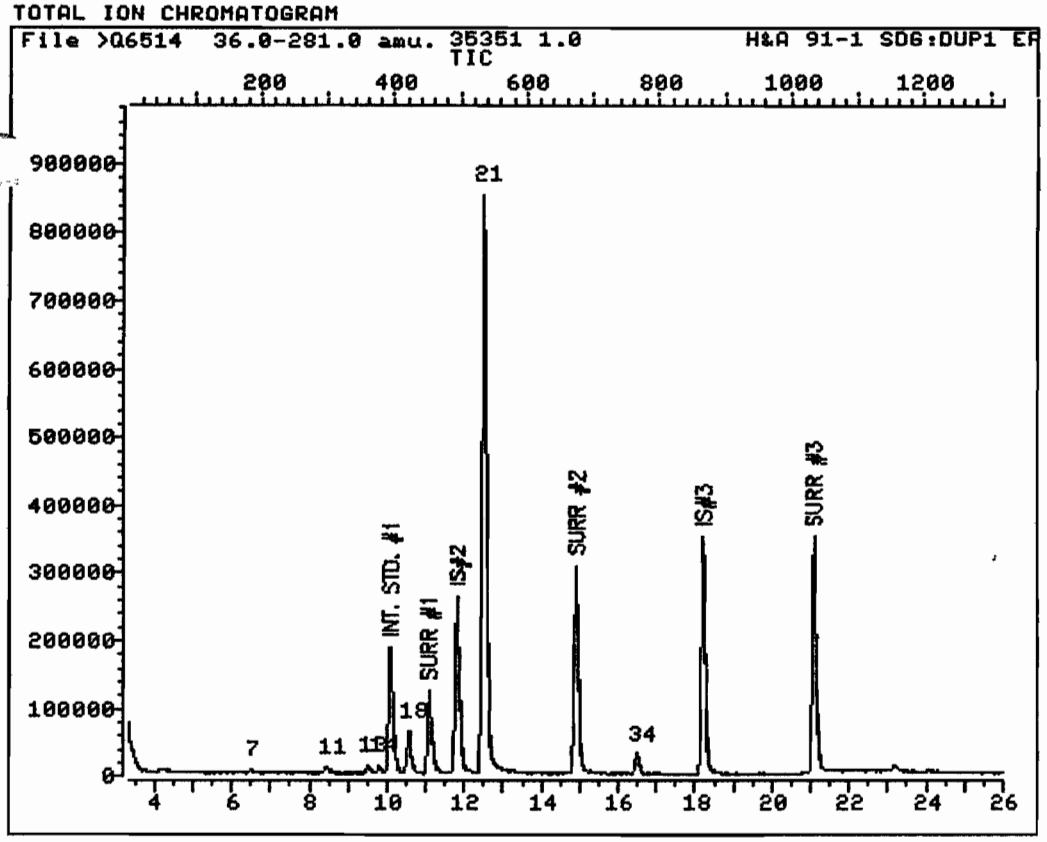
Operator ID: TOMT Quant Rev: 7 Quant Time: 950829 02:03
Output File: ^Q6514::D3 Injected at: 950829 13:26
Data File: >Q6514::D3 Dilution Factor: 1.00000
File: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.08	128.0	187318	50.00	ppb	98
7)	1,1-Dichloroethene	6.48	96.0	8647	1.94	ppb	97
11)	1,1-Dichloroethane	8.45	63.0	41358	3.89	ppb	93
13)	cis-1,2-Dichloroethene	9.50	96.0	18542	3.33	ppb	80
14)	Chloroform	9.79	83.0	39952	3.68	ppb	95
16)	1,2-Dichloroethane-d4	11.06	65.0	305282	47.52	ppb	93
17)	*1,4-Difluorobenzene	11.80	114.0	779532	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.55	97.0	180595	20.69	ppb	91
21)	Trichloroethene	12.49	130.0	1196917	169.53	ppb	97
29)	*Chlorobenzene-d5	18.21	117.0	731844	50.00	ppb	95
31)	Toluene-d8	14.90	98.0	727783	48.29	ppb	91
34)	Tetrachloroethene	16.51	164.0	26226	4.28	ppb	94
41)	Bromofluorobenzene	21.06	95.0	475955	49.16	ppb	88

*Compound is ISTD

TOTAL ION CHROMATOGRAM

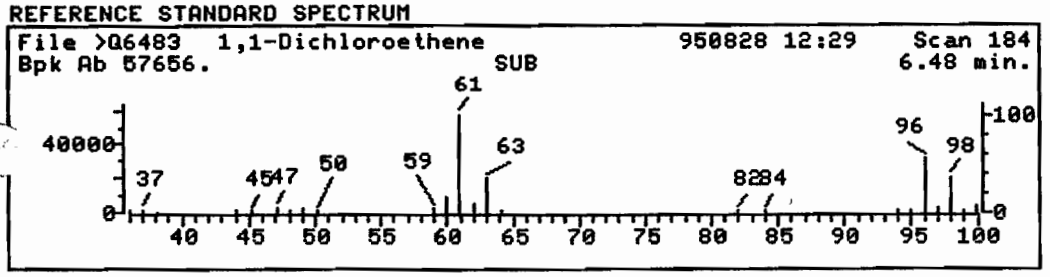


Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP

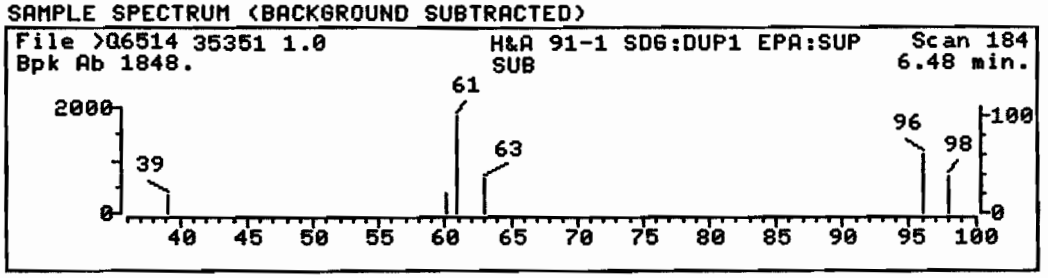
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: TOMT
Quant Time : 950829 02:03
Injected at: 950829 13:26

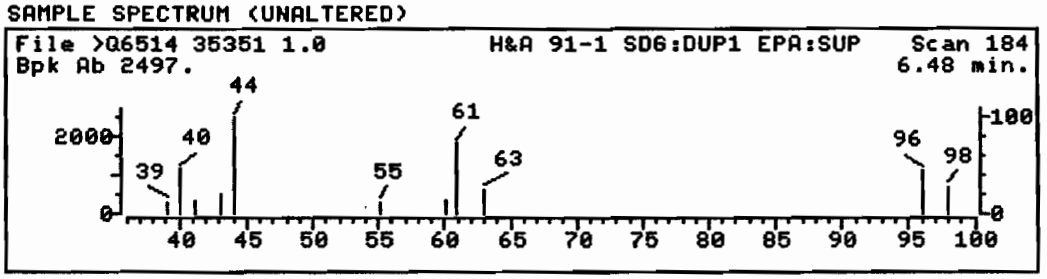
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



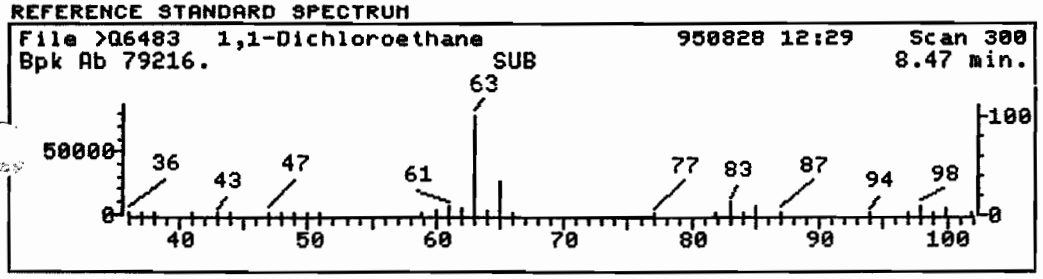
SAMPLE SPECTRUM (UNALTERED)



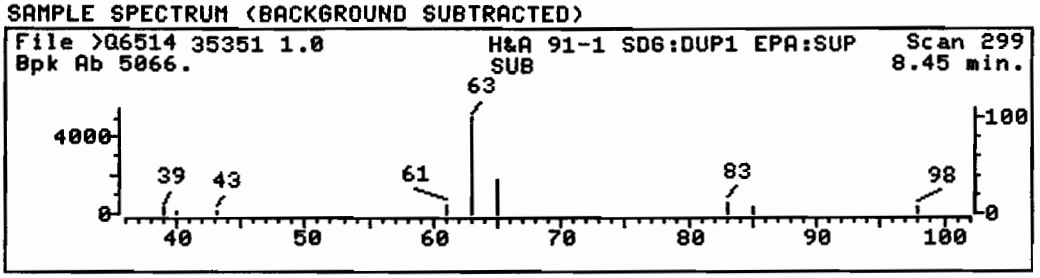
Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP
Quant Time: 950829 02:03 Quant ID File: IDECLP::QT
Injected at: 950829 13:26 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 7
Compound Name : 1,1-Dichloroethene
Scan Number : 184
Retention Time: 6.48 min.
Quant Ion : 96.0
Area : 8647
Concentration : 1.94 ppb
q-value : 97

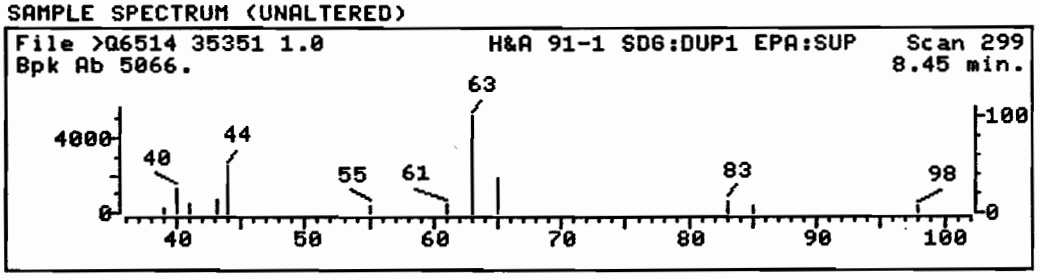
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



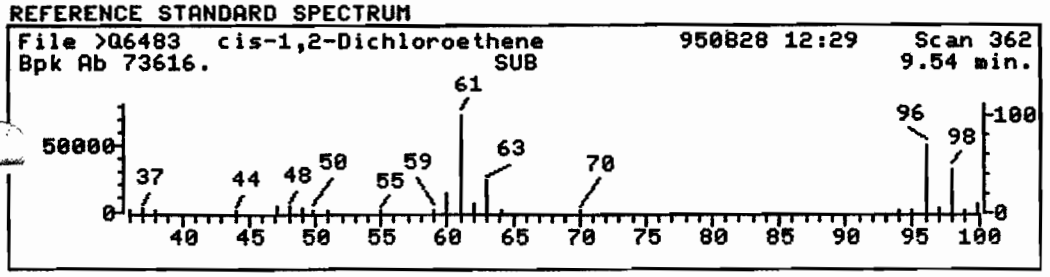
SAMPLE SPECTRUM (UNALTERED)



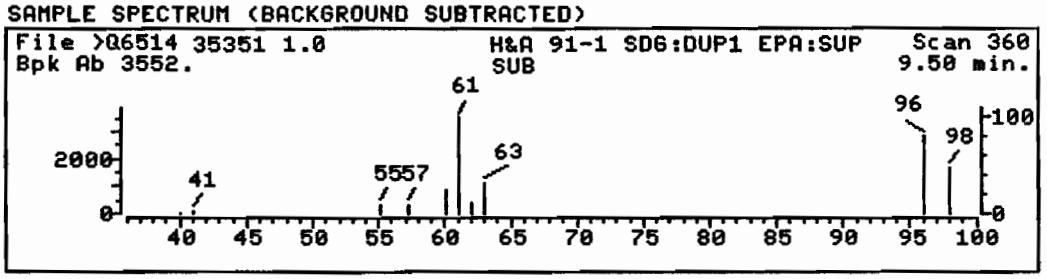
Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP
Quant Time: 950829 02:03 Quant ID File: IDECLP::QT
Injected at: 950829 13:26 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 11
Compound Name : 1,1-Dichloroethane
Scan Number : 299
Retention Time: 8.45 min.
Quant Ion : 63.0
Area : 41358
Concentration : 3.89 ppb
q-value : 93

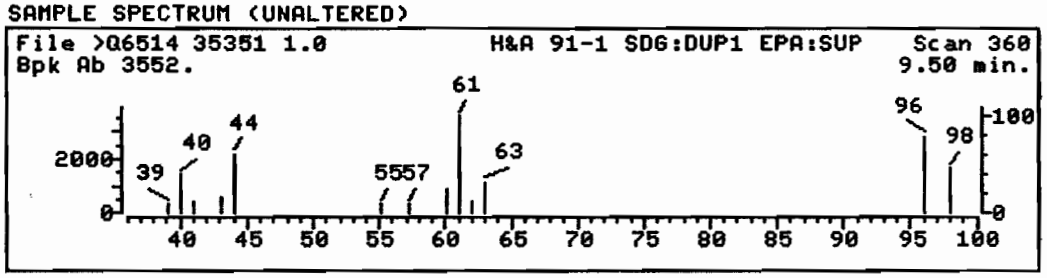
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



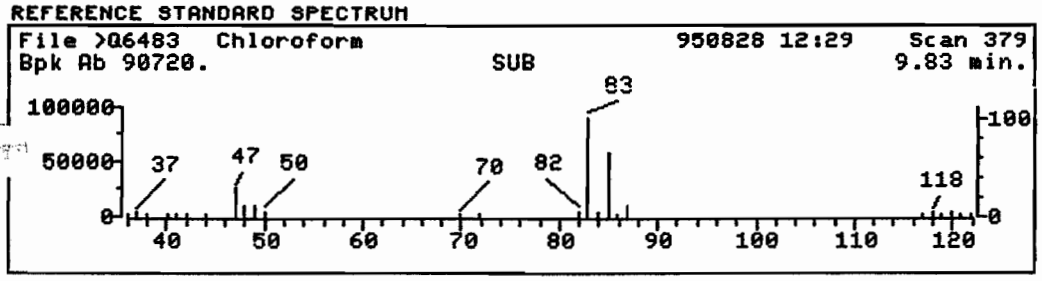
SAMPLE SPECTRUM (UNALTERED)



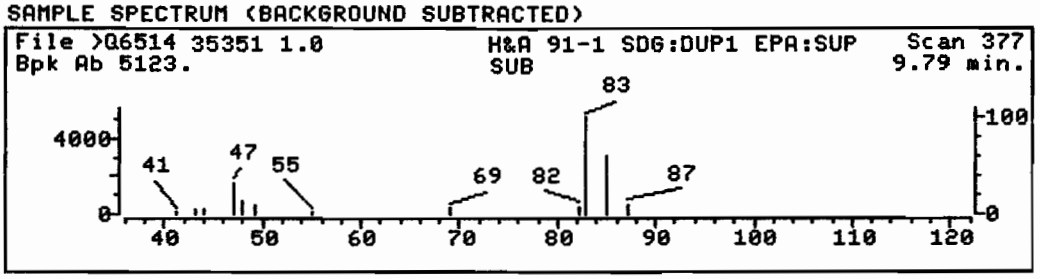
Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP
Quant Time: 950829 02:03 Quant ID File: IDECLP::QT
Injected at: 950829 13:26 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 360
Retention Time: 9.50 min.
Quant Ion : 96.0
Area : 18542
Concentration : 3.33 ppb
q-value : 80

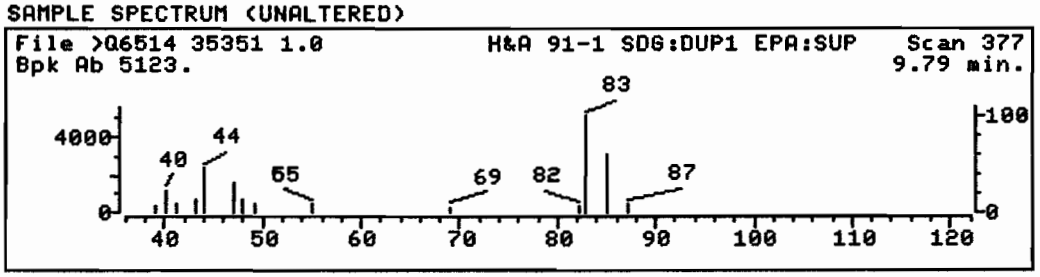
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



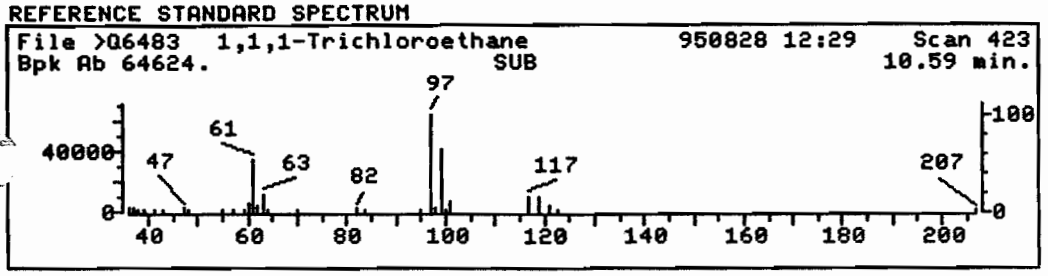
SAMPLE SPECTRUM (UNALTERED)



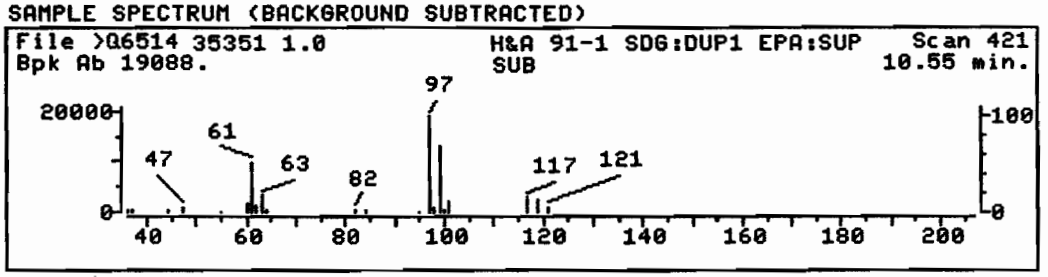
Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP
Quant Time: 950829 02:03 Quant ID File: IDECLP::QT
Injected at: 950829 13:26 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 14
Compound Name : Chloroform
Scan Number : 377
Retention Time: 9.79 min.
Quant Ion : 83.0
Area : 39952
Concentration : 3.68 ppb
q-value : 95

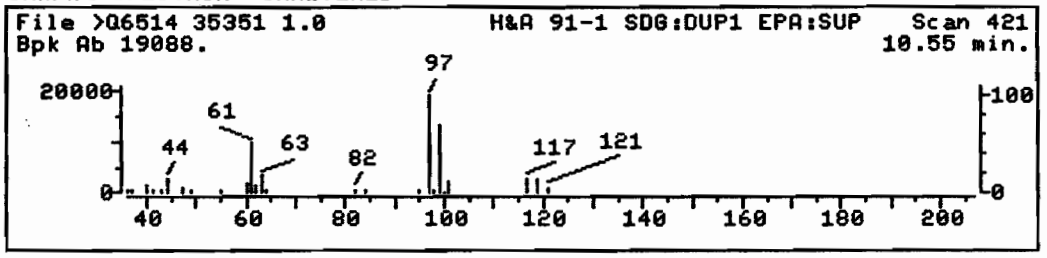
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



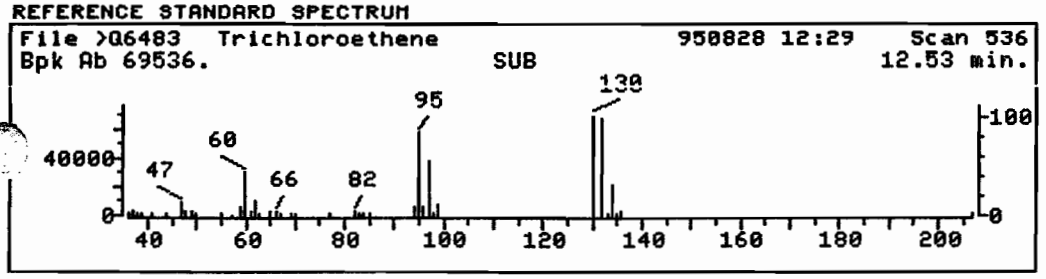
SAMPLE SPECTRUM (UNALTERED)



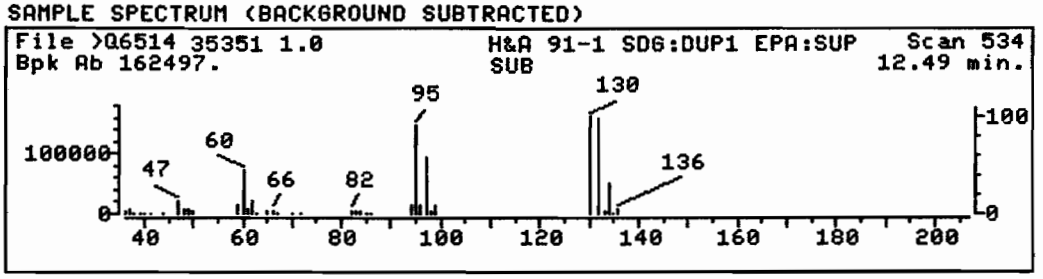
Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP
Quant Time: 950829 02:03 Quant ID File: IDECLP::QT
Injected at: 950829 13:26 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 421
Retention Time: 10.55 min.
Quant Ion : 97.0
Area : 180595
Concentration : 20.69 ppb
q-value : 91

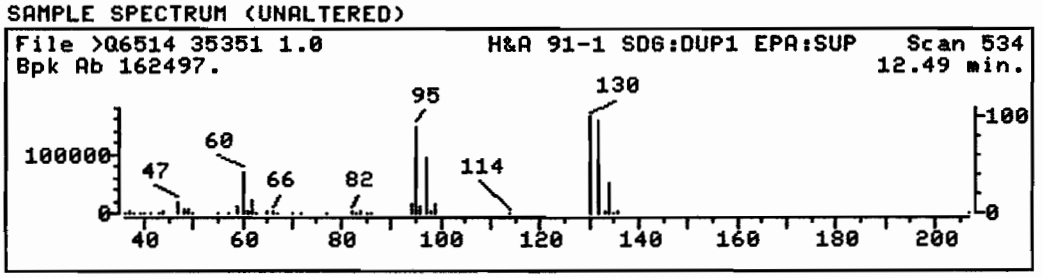
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



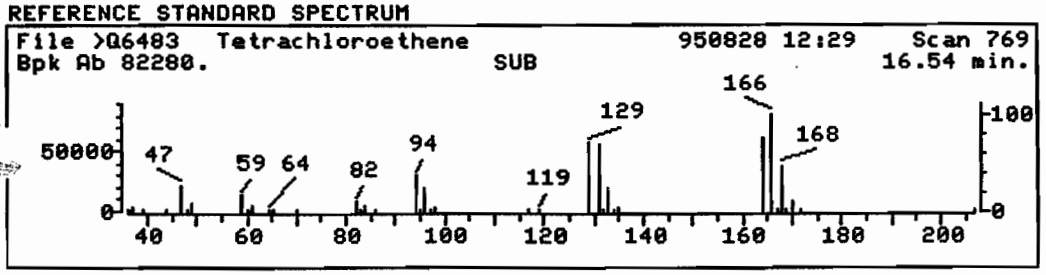
SAMPLE SPECTRUM (UNALTERED)



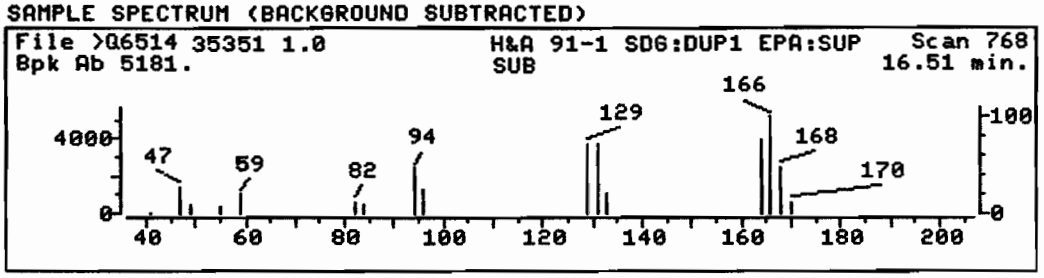
Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP
Quant Time: 950829 02:03 Quant ID File: IDECLP::QT
Injected at: 950829 13:26 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 534
Retention Time: 12.49 min.
Quant Ion : 130.0
Area : 1196917
Concentration : 169.53 ppb
q-value : 97

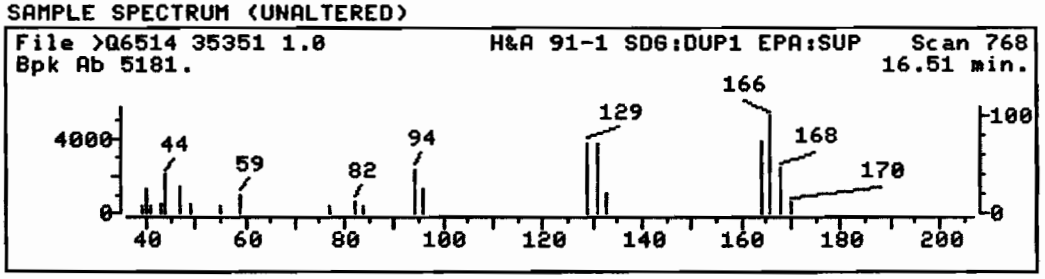
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6514::D3 Quant Output File: ^Q6514::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUP
Quant Time: 950829 02:03 Quant ID File: IDECLP::QT
Injected at: 950829 13:26 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 34
Compound Name : Tetrachloroethene
Scan Number : 768
Retention Time: 16.51 min.
Quant Ion : 164.0
Area : 26226
Concentration : 4.28 ppb
q-value : 94

MS data file header from : >Q6514::D3

Sample: 35351 1.0 Operator: TOMT 8/29/95 13:26
Misc : H&A 91-1 SDG:DUP1 EPA:SUP
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

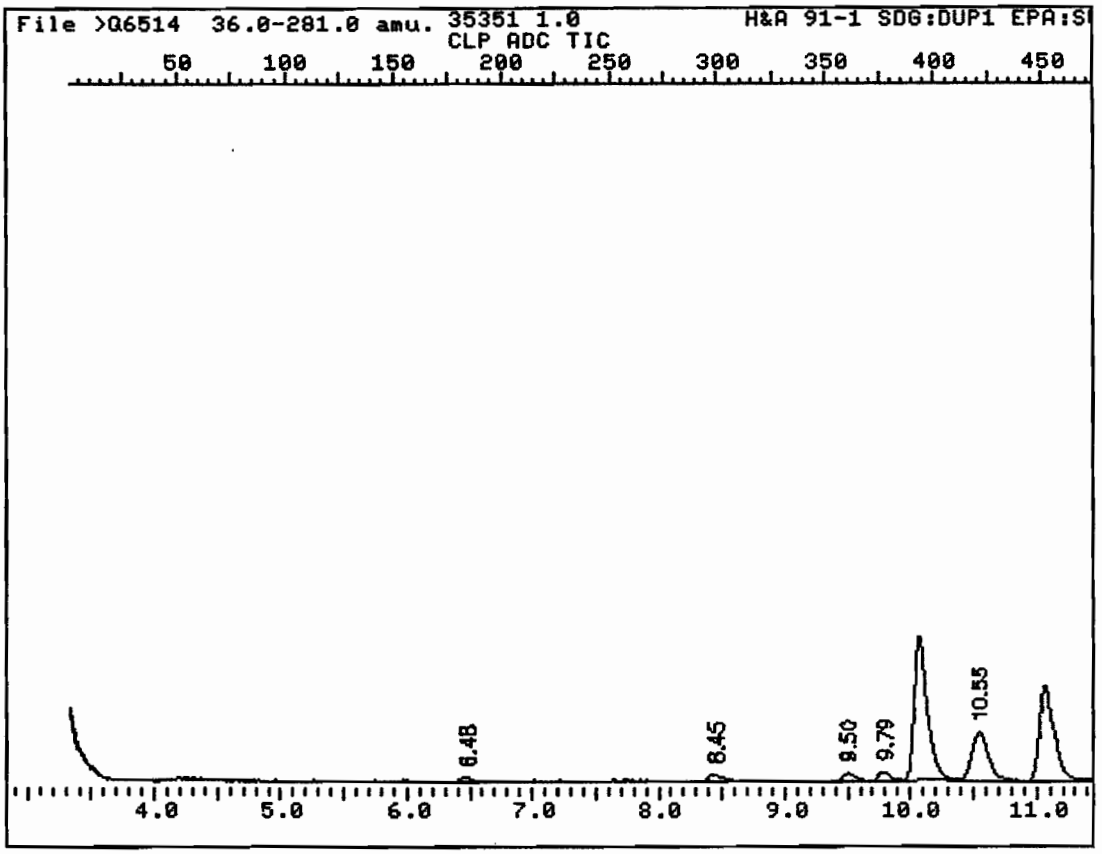
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1351710.	10.08	3.34 - 10.94
2	50.0	1905832.	11.80	10.94 - 15.01
3	50.0	2224358.	18.21	15.01 - 26.01

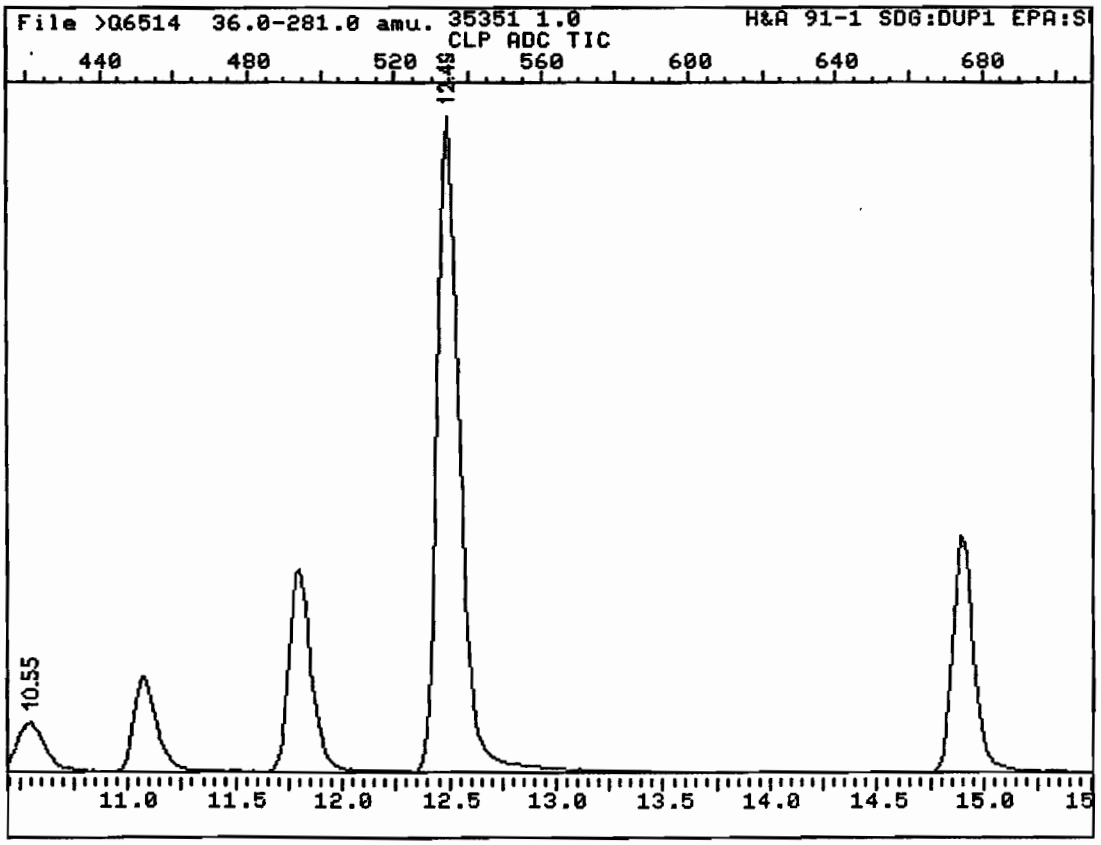
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

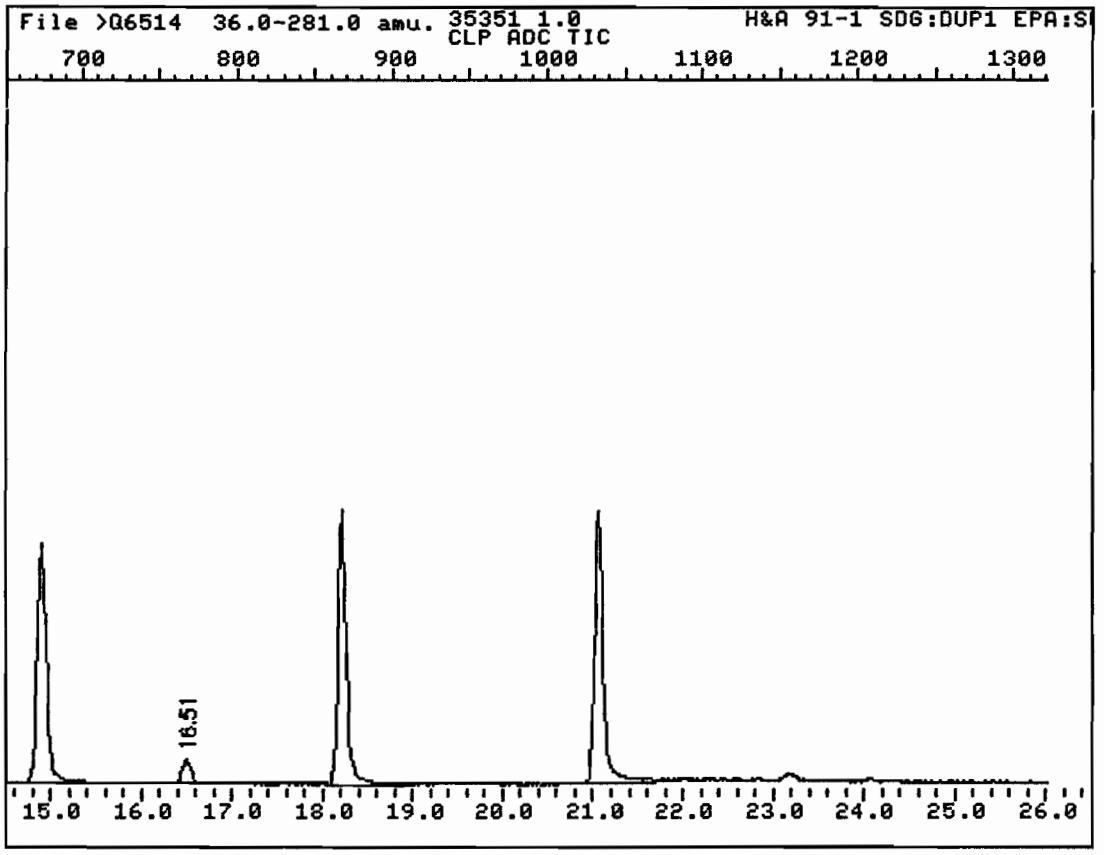
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

1:07 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 13:26



Instrument ID: 1 Analyzed on: 8/29/95 13:26

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SUPPLY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35354

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6520

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	2.	J
75-34-3	1,1-Dichloroethane	4.	J
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	3.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	3.	J
71-55-6	1,1,1-Trichloroethane	19.	
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	160.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	4.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SUPPLY

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35354

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6520

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

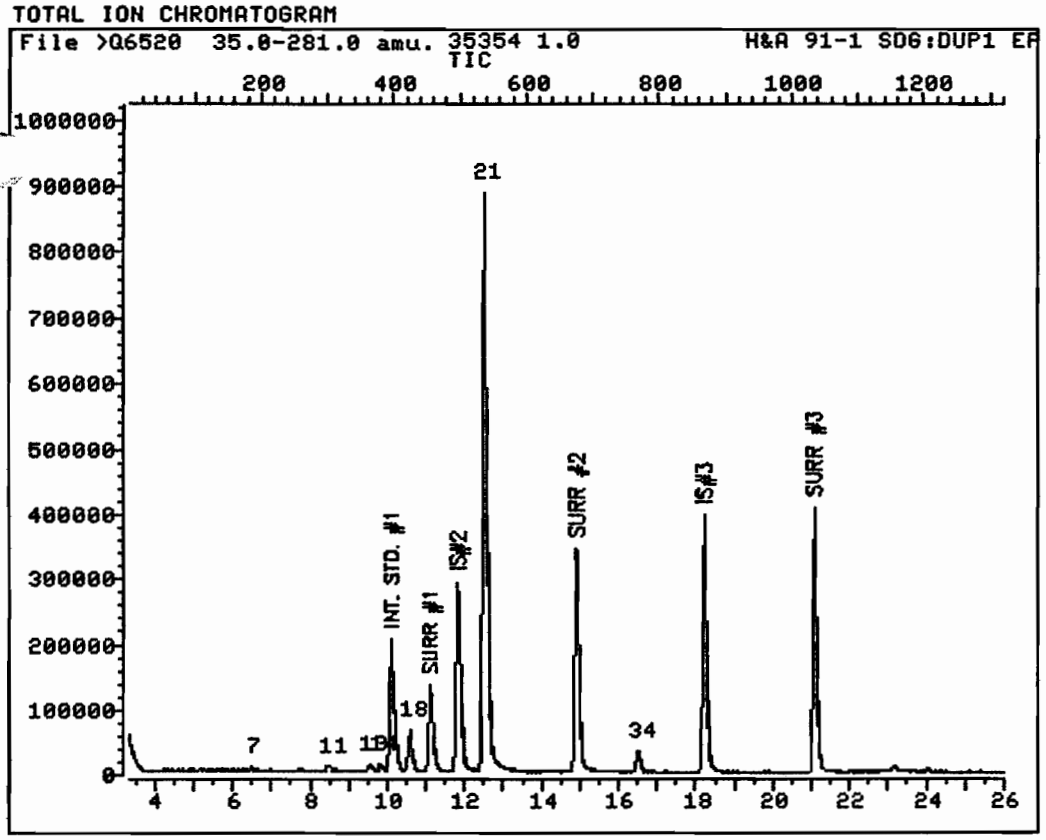
Operator ID: RODH Quant Rev: 7 Quant Time: 950829 07:04
Output File: ^Q6520::D3 Injected at: 950829 18:19
Data File: >Q6520::D3 Dilution Factor: 1.00000
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.10	128.0	207845	50.00	ppb	97
7)	1,1-Dichloroethene	6.48	96.0	9183	1.86	ppb	95
11)	1,1-Dichloroethane	8.47	63.0	43250	3.67	ppb	97
13)	cis-1,2-Dichloroethene	9.52	96.0	19202	3.11	ppb	82
14)	Chloroform	9.81	83.0	41841	3.47	ppb	98
16)	1,2-Dichloroethane-d4	11.10	65.0	333821	46.83	ppb	92
17)	*1,4-Difluorobenzene	11.82	114.0	886295	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.57	97.0	186370	18.78	ppb	92
21)	Trichloroethene	12.51	130.0	1283494	159.89	ppb	98
29)	*Chlorobenzene-d5	18.23	117.0	827726	50.00	ppb	95
31)	Toluene-d8	14.91	98.0	816772	47.91	ppb	86
34)	Tetrachloroethene	16.51	164.0	27673	3.99	ppb	95
41)	Bromofluorobenzene	21.06	95.0	531879	48.57	ppb	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM

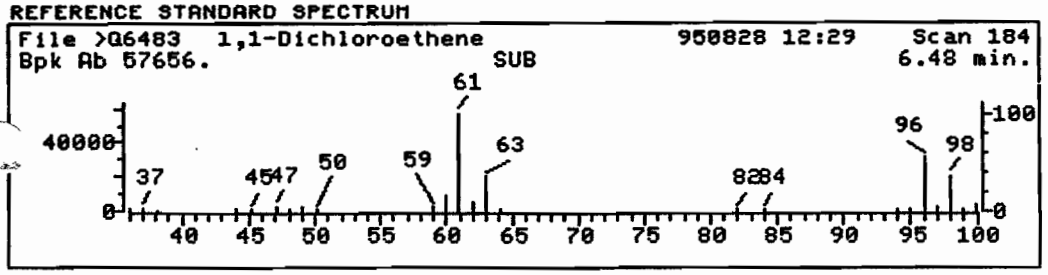


Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY

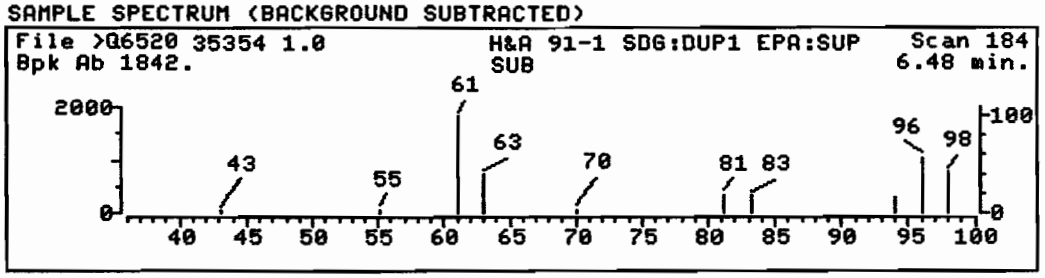
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: RODH
Quant Time : 950829 07:04
Injected at: 950829 18:19

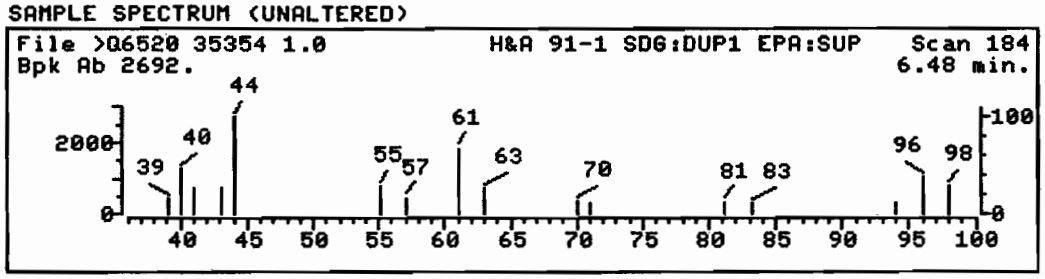
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



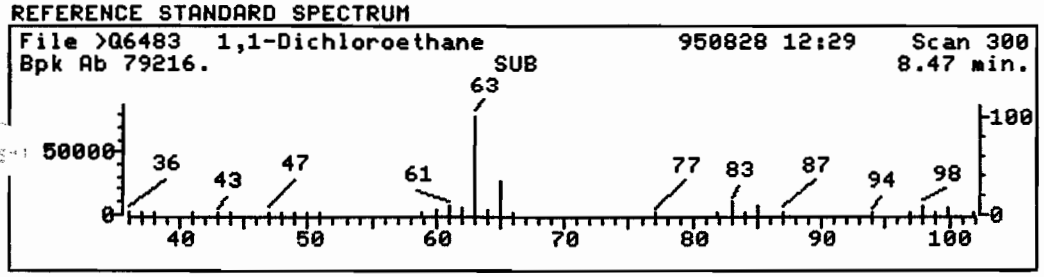
SAMPLE SPECTRUM (UNALTERED)



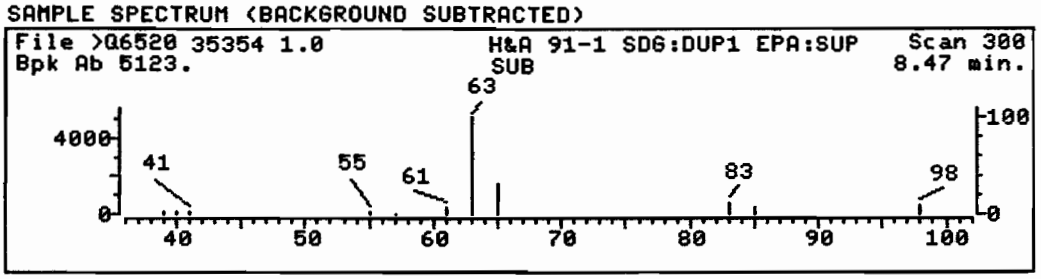
Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY
Quant Time: 950829 07:04 Quant ID File: IDECLP::QT
Injected at: 950829 18:19 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 7
Compound Name : 1,1-Dichloroethene
Scan Number : 184
Retention Time: 6.48 min.
Quant Ion : 96.0
Area : 9183
Concentration : 1.86 ppb
q-value : 95

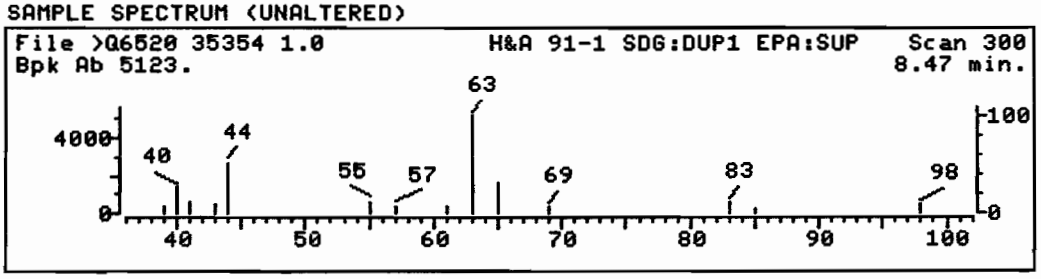
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



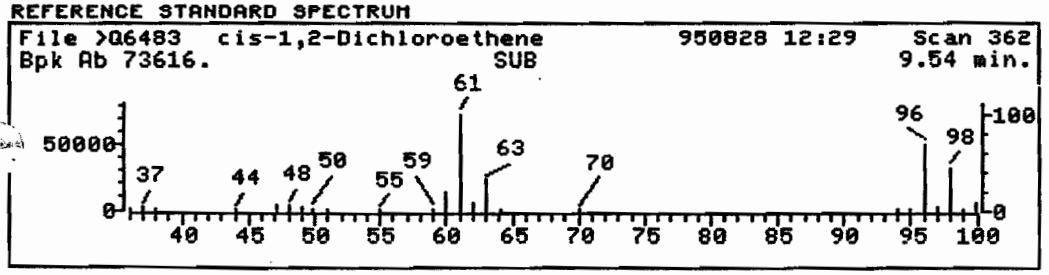
SAMPLE SPECTRUM (UNALTERED)



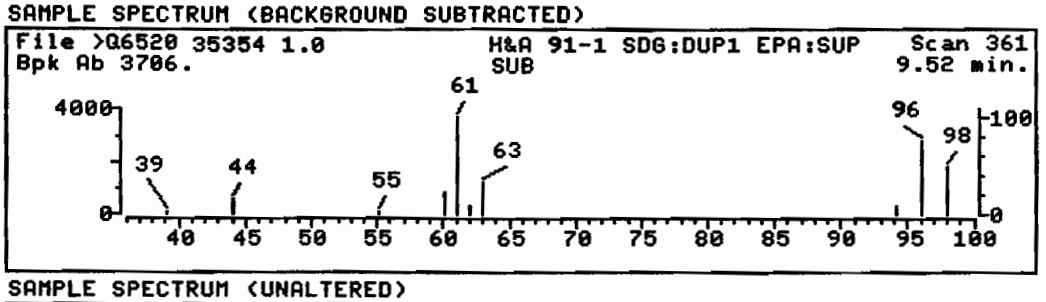
Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY
Quant Time: 950829 07:04 Quant ID File: IDECLP::QT
Injected at: 950829 18:19 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 11
Compound Name : 1,1-Dichloroethane
Scan Number : 300
Retention Time: 8.47 min.
Quant Ion : 63.0
Area : 43250
Concentration : 3.67 ppb
q-value : 97

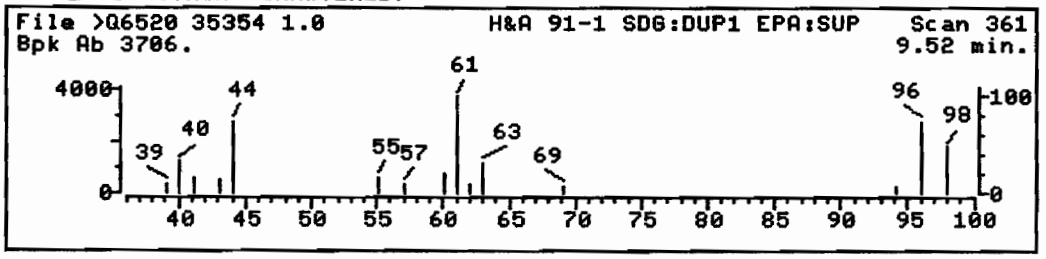
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



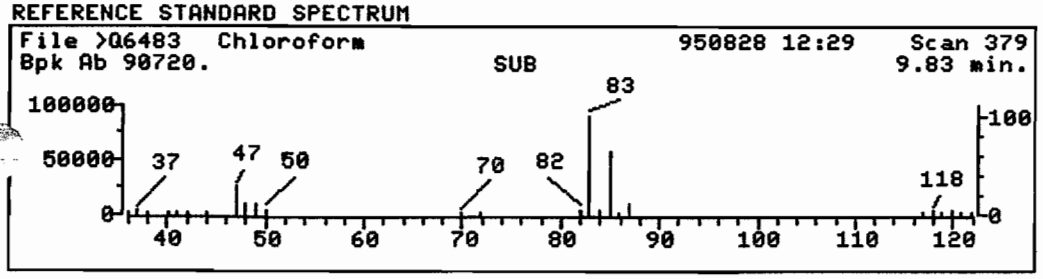
SAMPLE SPECTRUM (UNALTERED)



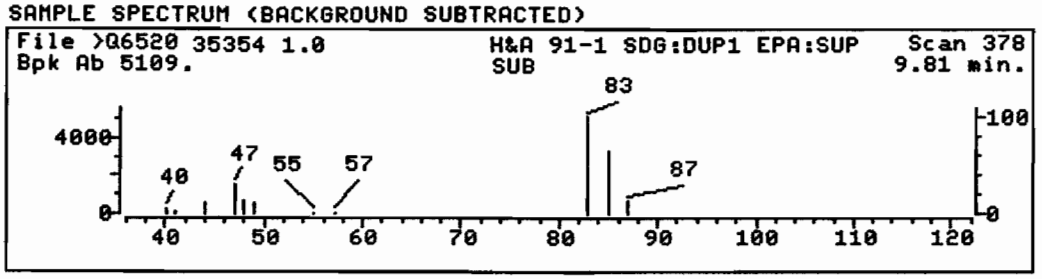
Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY
Quant Time: 950829 07:04 Quant ID File: IDECLP::QT
Injected at: 950829 18:19 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 361
Retention Time: 9.52 min.
Quant Ion : 96.0
Area : 19202
Concentration : 3.11 ppb
q-value : 82

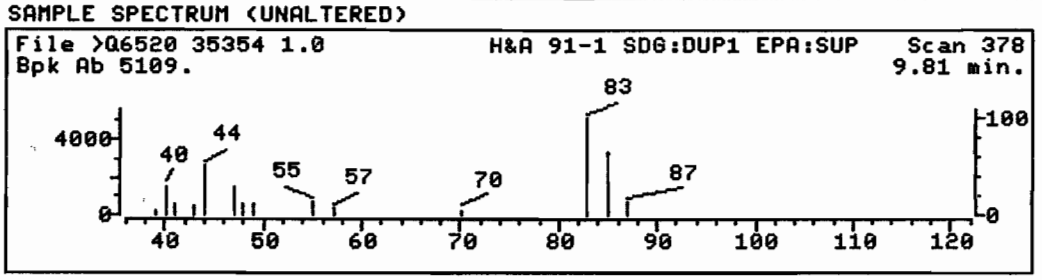
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



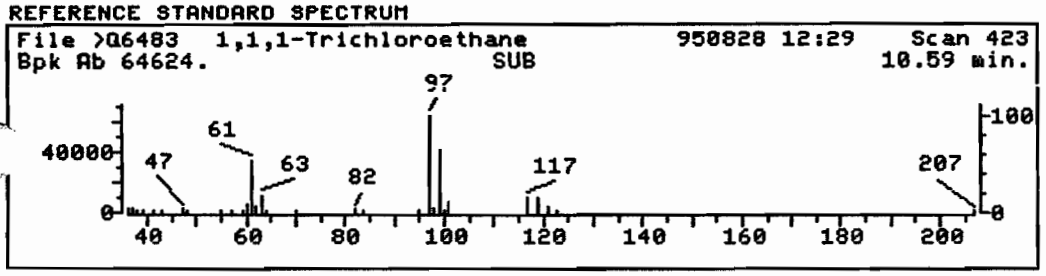
SAMPLE SPECTRUM (UNALTERED)



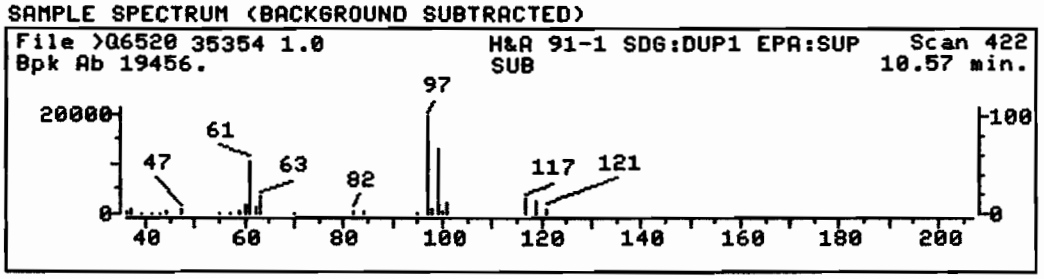
Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY
Quant Time: 950829 07:04 Quant ID File: IDECLP::QT
Injected at: 950829 18:19 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 14
Compound Name : Chloroform
Scan Number : 378
Retention Time: 9.81 min.
Quant Ion : 83.0
Area : 41841
Concentration : 3.47 ppb
q-value : 98

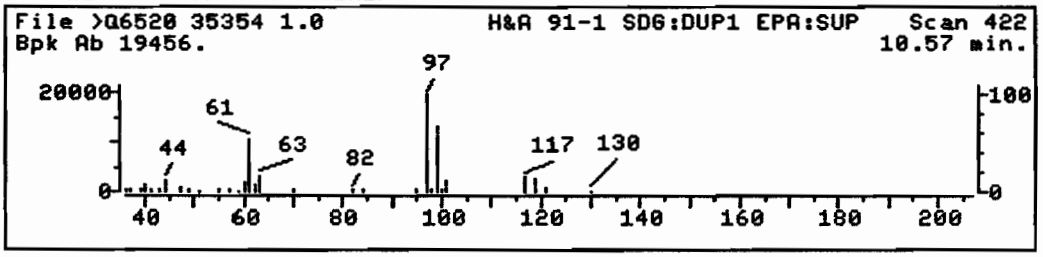
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



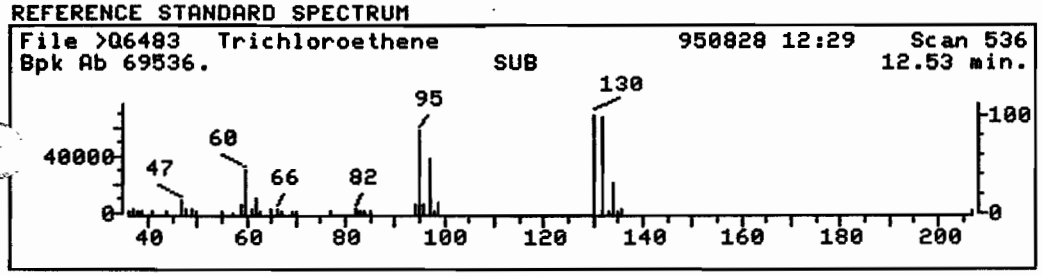
SAMPLE SPECTRUM (UNALTERED)



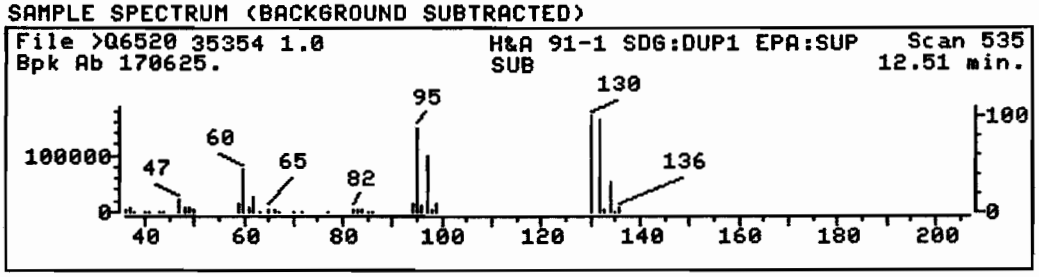
Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY
Quant Time: 950829 07:04 Quant ID File: IDECLP::QT
Injected at: 950829 18:19 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 18
Compound Name : 1,1,1-Trichloroethane
Scan Number : 422
Retention Time: 10.57 min.
Quant Ion : 97.0
Area : 186370
Concentration : 18.78 ppb
q-value : 92

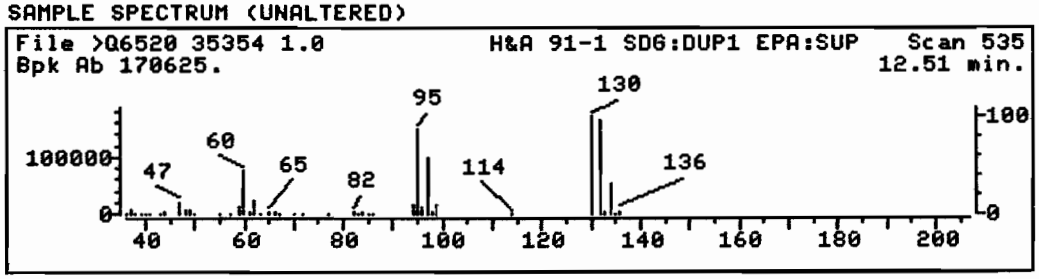
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



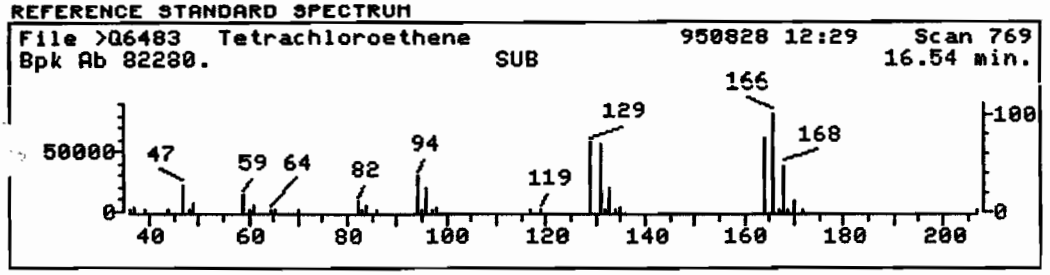
SAMPLE SPECTRUM (UNALTERED)



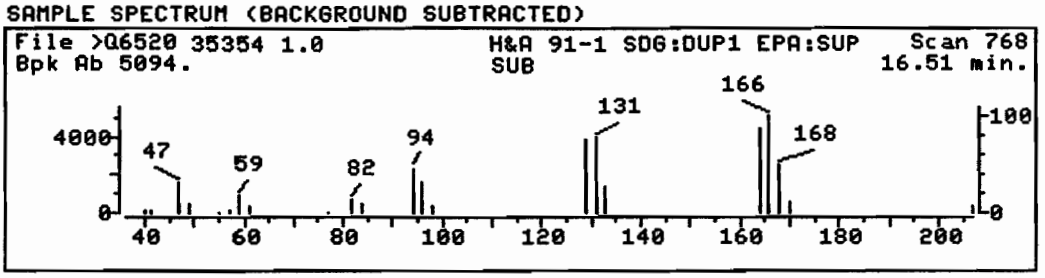
Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY
Quant Time: 950829 07:04 Quant ID File: IDECLP::QT
Injected at: 950829 18:19 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 535
Retention Time: 12.51 min.
Quant Ion : 130.0
Area : 1283494
Concentration : 159.89 ppb
q-value : 98

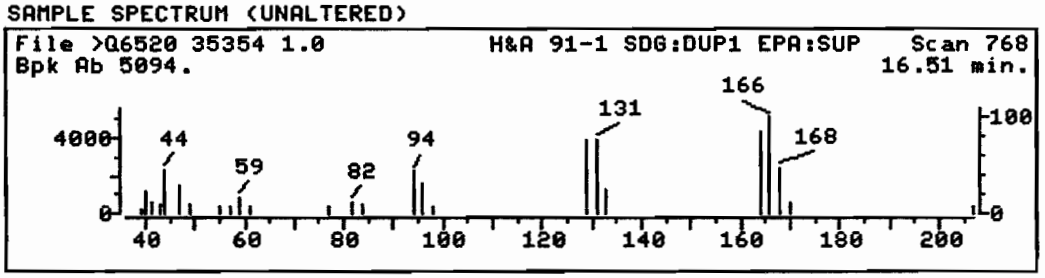
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6520::D3 Quant Output File: ^Q6520::D3
Name: 35354 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPPLY
Quant Time: 950829 07:04 Quant ID File: IDECLP::QT
Injected at: 950829 18:19 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 34
Compound Name : Tetrachloroethene
Scan Number : 768
Retention Time: 16.51 min.
Quant Ion : 164.0
Area : 27673
Concentration : 3.99 ppb
q-value : 95

MS data file header from : >Q6520::D3

Sample: 35354 1.0 Operator: RODH 8/29/95 18:19
Misc : H&A 91-1 SDG:DUP1 EPA:SUPPLY
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
[illegible]ethod file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

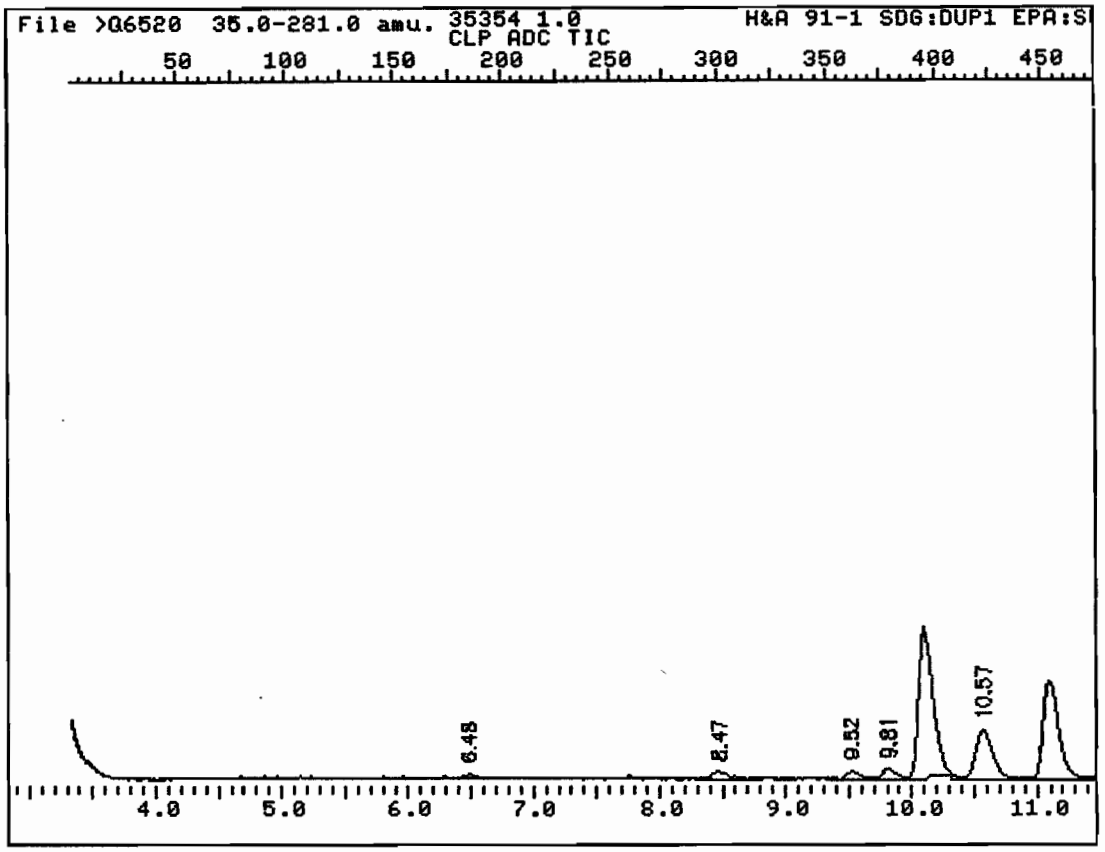
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1499506.	10.10	3.34 - 10.96
2	50.0	2115765.	11.82	10.96 - 15.02
3	50.0	2533998.	18.23	15.02 - 26.01

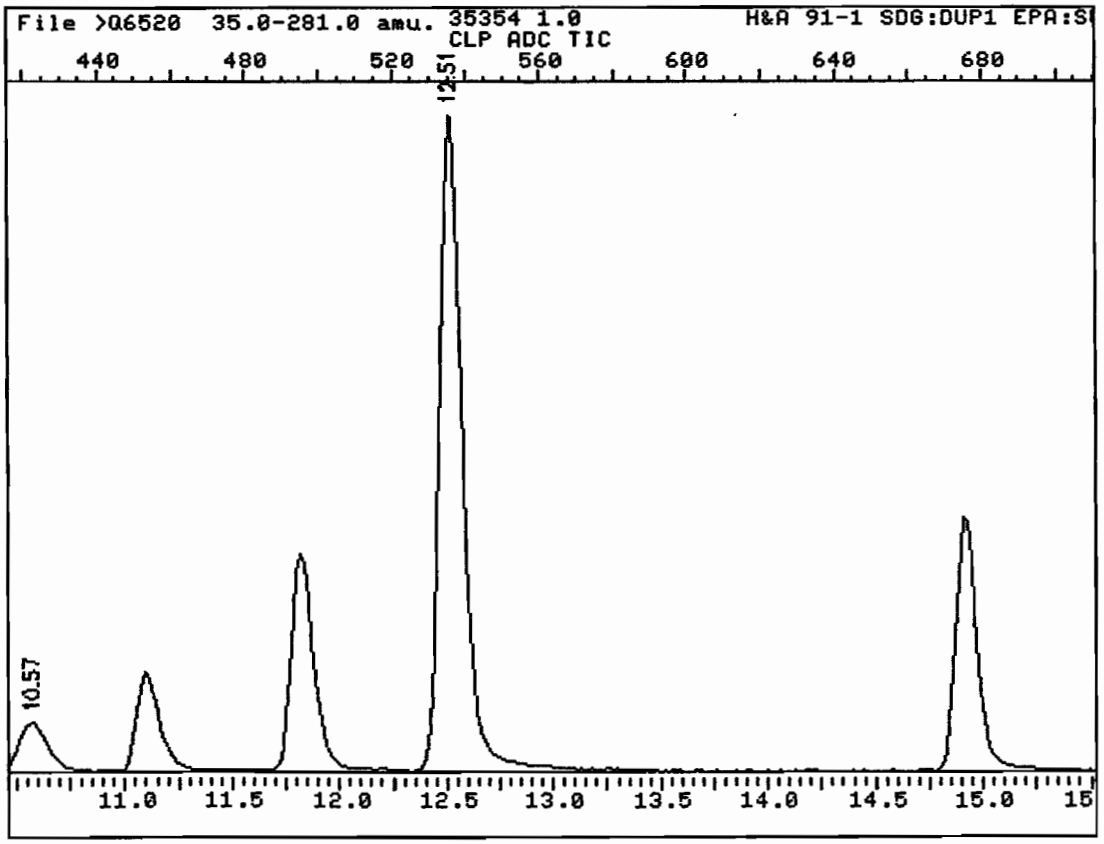
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

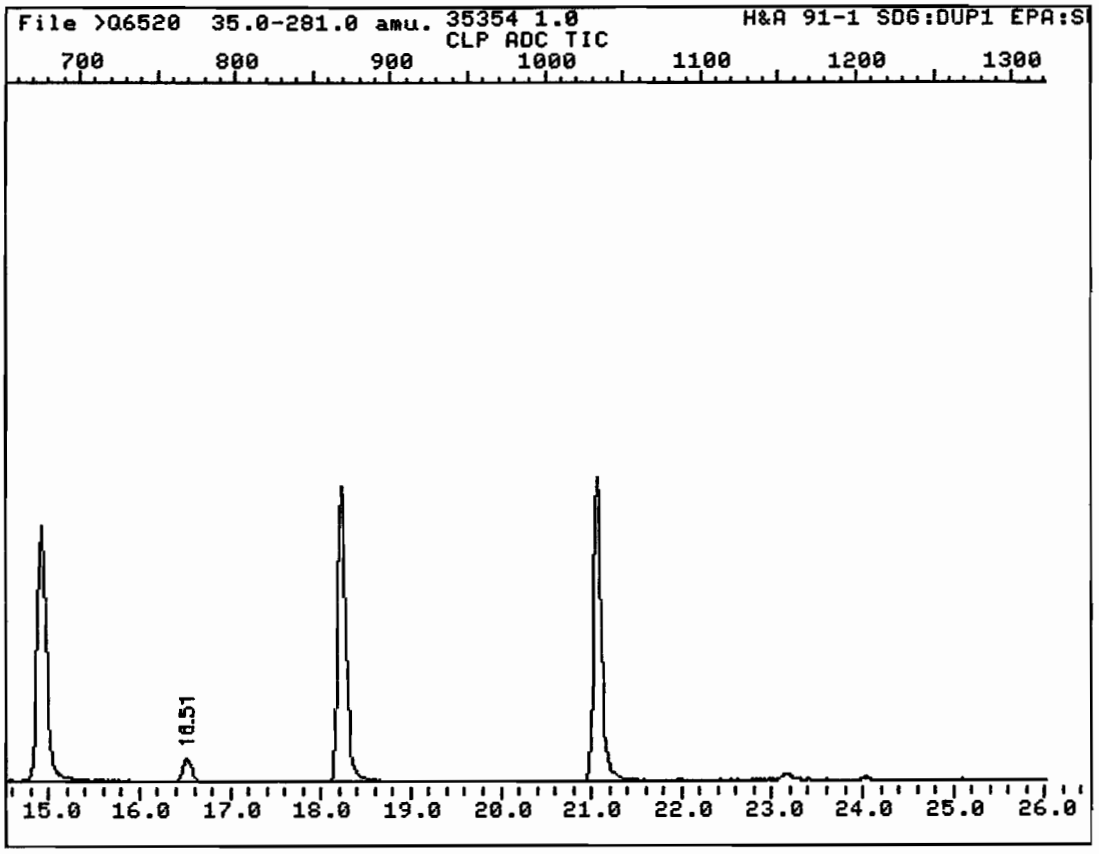
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} * \text{Area Unknown}|}{|\text{Area Int Std}|} * \text{Correction Factor}$$

1:38 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 18:19



Instrument ID: 1 Analyzed on: 8/29/95 18:19

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35886

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6487

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35886

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6487

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

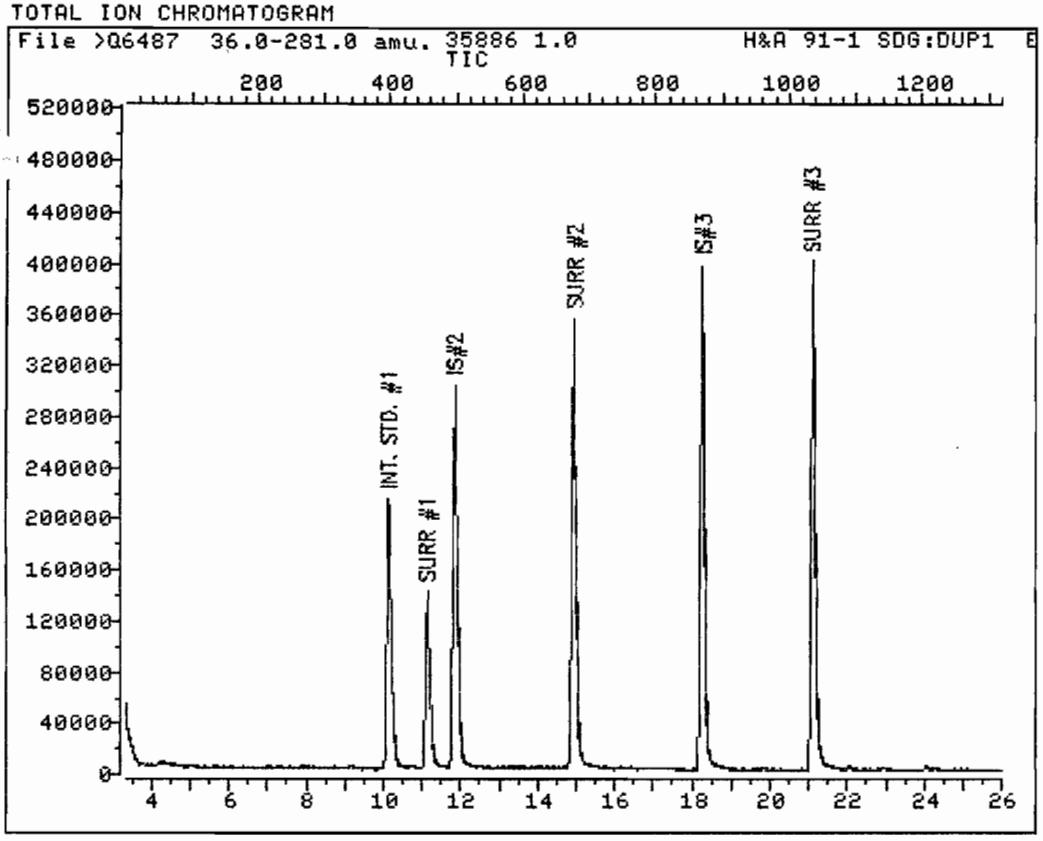
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 05:12
Output File: ^Q6487::D5 Injected at: 950828 16:31
Data File: >Q6487::D5 Dilution Factor: 1.00000
Name: 35886 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:TRIPBLANK

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.12	128.0	217210	50.00	ppb	97
16)	1,2-Dichloroethane-d4	11.11	65.0	345523	45.50	ppb	94
17)	*1,4-Difluorobenzene	11.84	114.0	928953	50.00	ppb	84
29)	*Chlorobenzene-d5	18.26	117.0	845663	50.00	ppb	97
31)	Toluene-d8	14.95	98.0	857604	45.79	ppb	88
41)	Bromofluorobenzene	21.08	95.0	560091	48.70	ppb	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >Q6487::D5 Quant Output File: ^Q6487::D5
Name: 35886 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:TRIPBLANK

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

Operator ID: RODH
Quant Time : 950828 05:12
Injected at: 950828 16:31

MS data file header from : >Q6487::D5

Sample: 35886 1.0 Operator: RODH 8/28/95 16:31
Misc : H&A 91-1 SDG:DUP1 EPA:TRIPBLANK
Inst. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

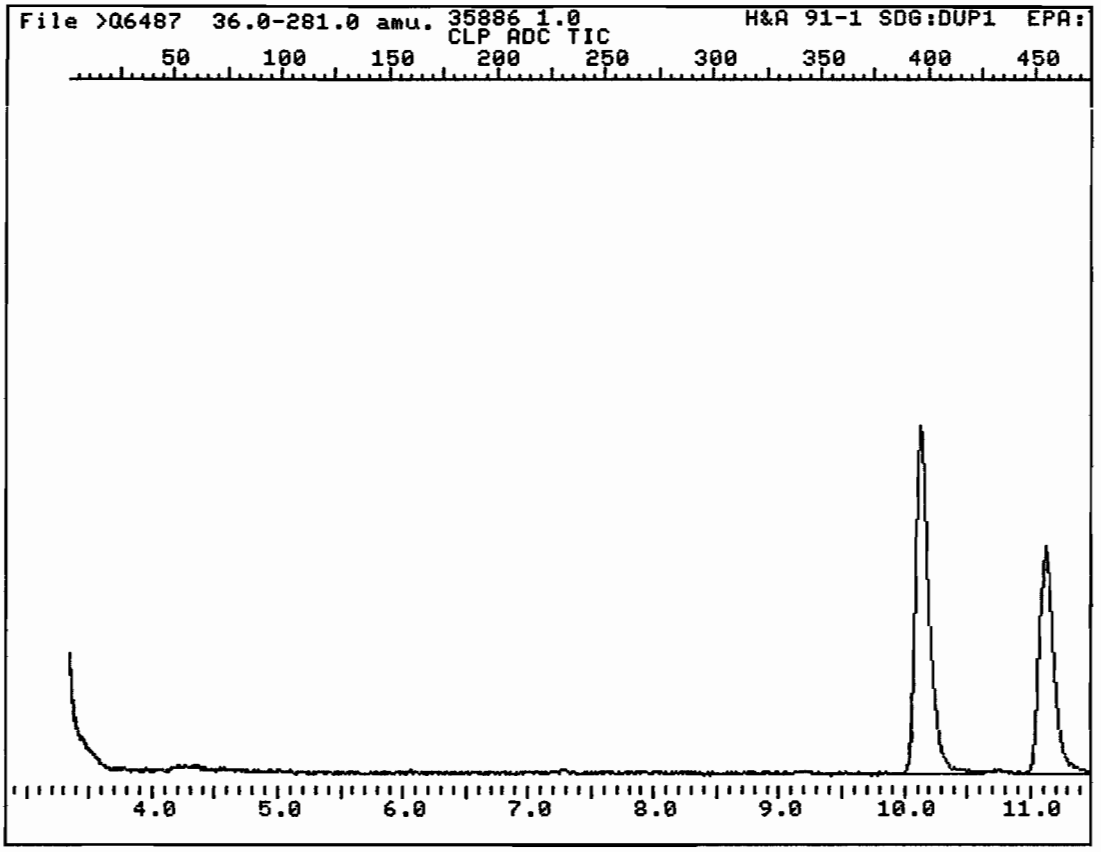
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1587060.	10.12	3.34 - 10.98
2	50.0	2235714.	11.84	10.98 - 15.05
3	50.0	2587454.	18.26	15.05 - 26.00

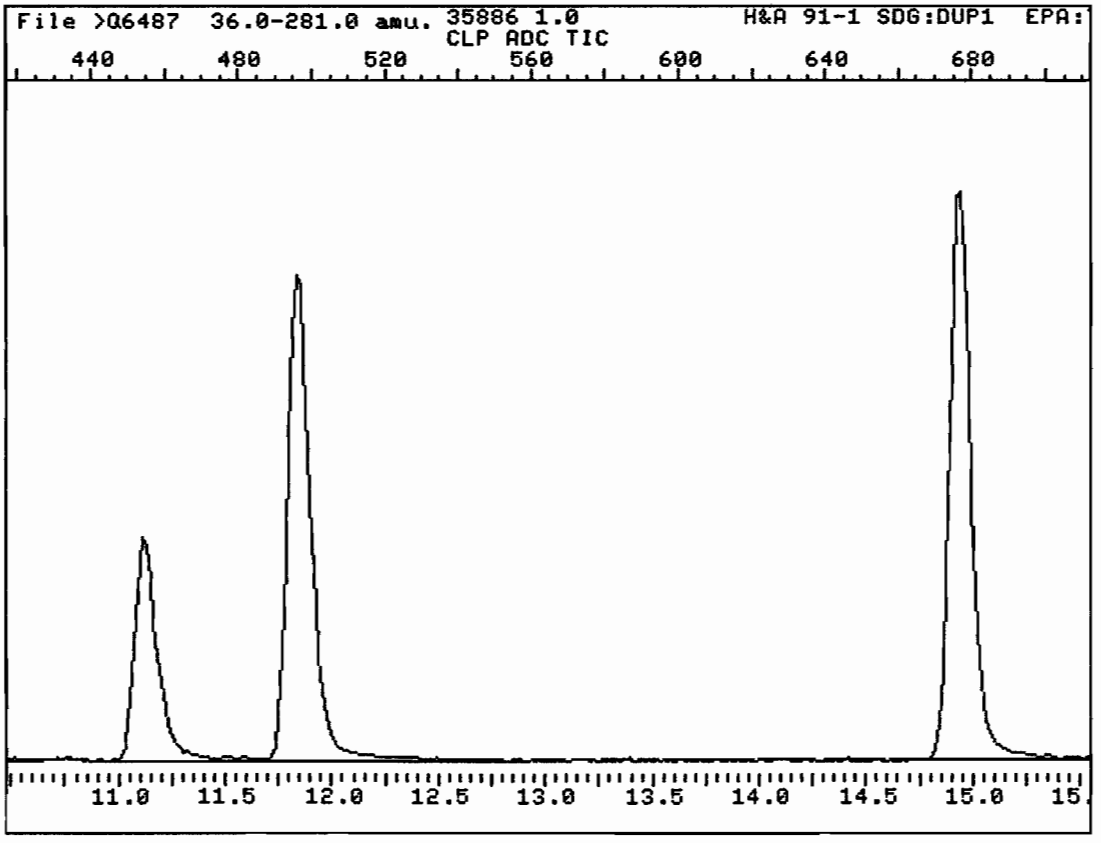
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

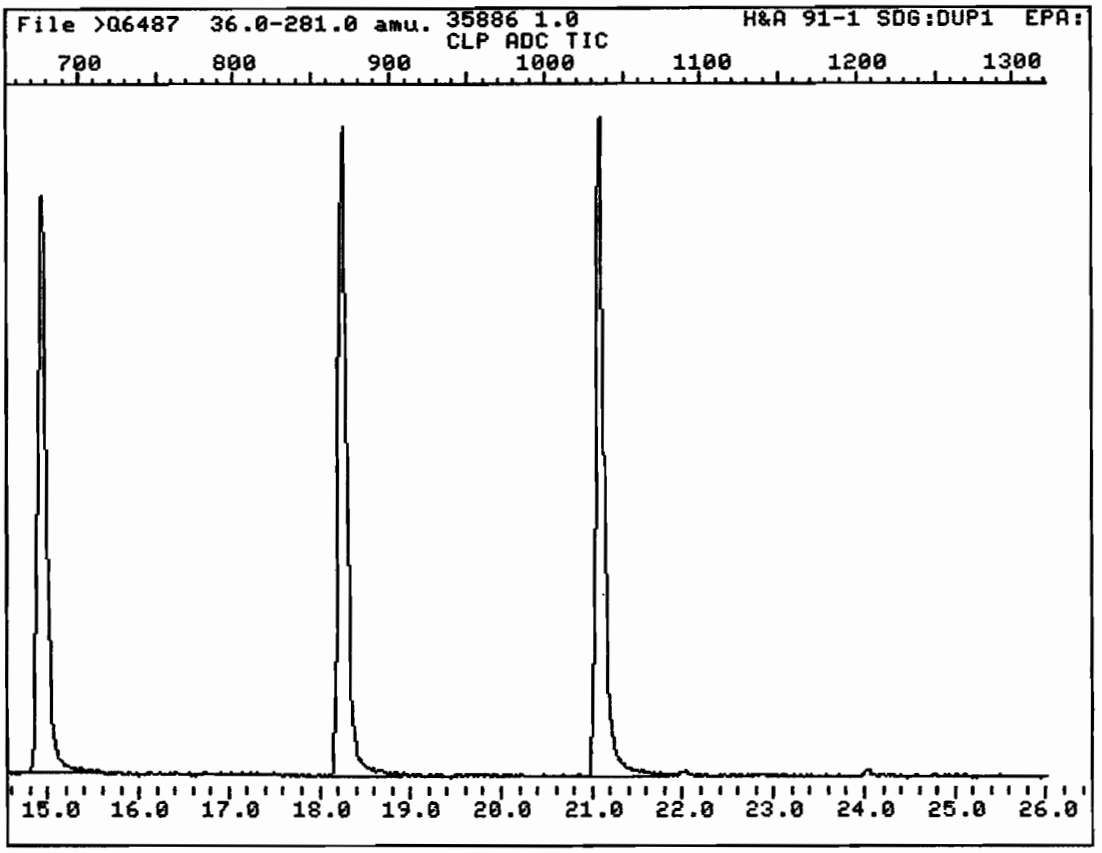
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} * \text{Area Unknown}|}{|\text{Area Int Std}|} * \text{Correction Factor}$$

11:21 AM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/28/95 16:31



Instrument ID: 1 **Analyzed on: 8/28/95 16:31**

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1121

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35344

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6501

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	3.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1121

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35344

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6501

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Hydrocarbon	19.99	6.	J
2.		Unknown Hydrocarbon	21.85	6.	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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29.					
30.					

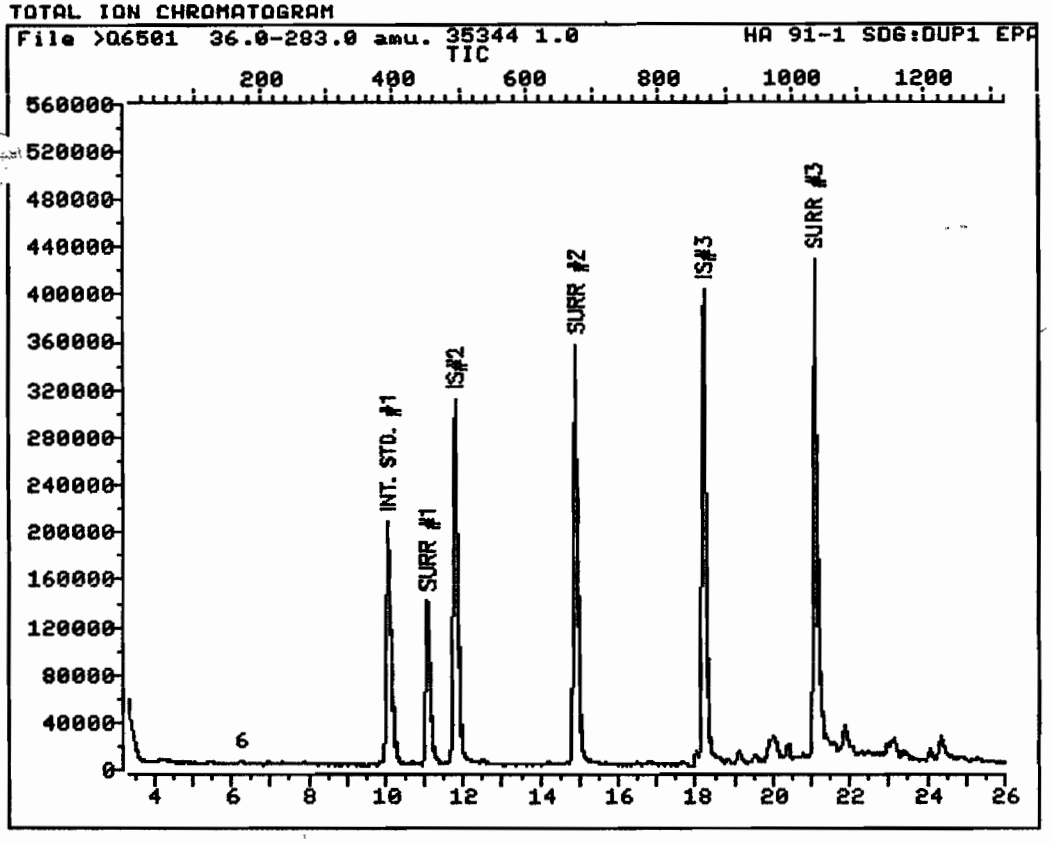
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 20:04
Output File: ^Q6501::D5 Injected at: 950829 03:14
Data File: >Q6501::D5 Dilution Factor: 1.00000
Volume: 35344 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:1121

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.05	128.0	215620	50.00	ppb	95
6)	Acetone	6.20	43.0	11540	3.33	ppb	90
16)	1,2-Dichloroethane-d4	11.06	65.0	355350	48.35	ppb	92
17)	*1,4-Difluorobenzene	11.78	114.0	926036	50.00	ppb	83
29)	*Chlorobenzene-d5	18.23	117.0	847451	50.00	ppb	97
31)	Toluene-d8	14.89	98.0	836903	47.61	ppb	85
41)	Bromofluorobenzene	21.08	95.0	565584	51.47	ppb	89

* Compound is ISTD

TOTAL ION CHROMATOGRAM

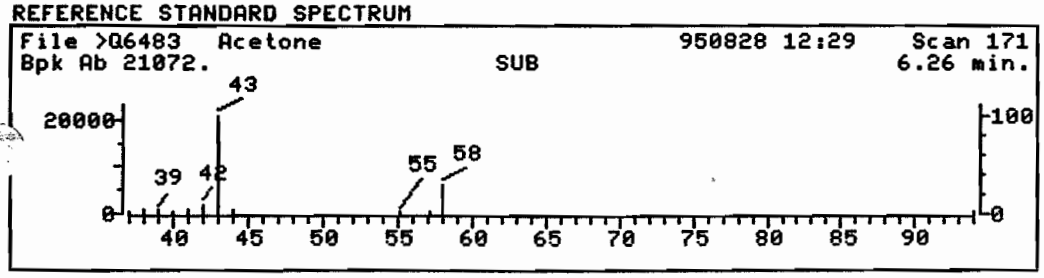


Data File: >Q6501::D5 Quant Output File: ^Q6501::D5
Name: 35344 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:1121

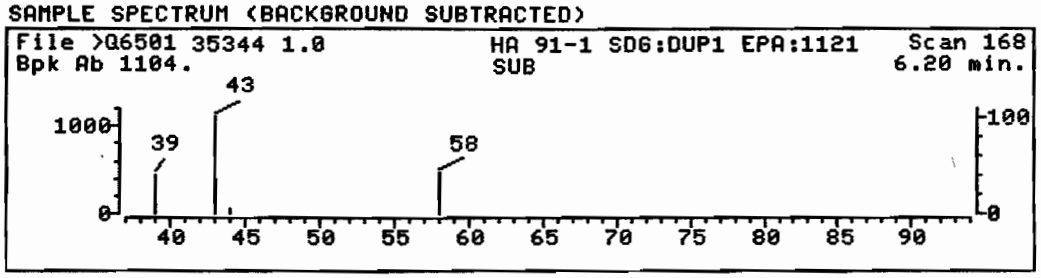
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 20:04
Injected at: 950829 03:14

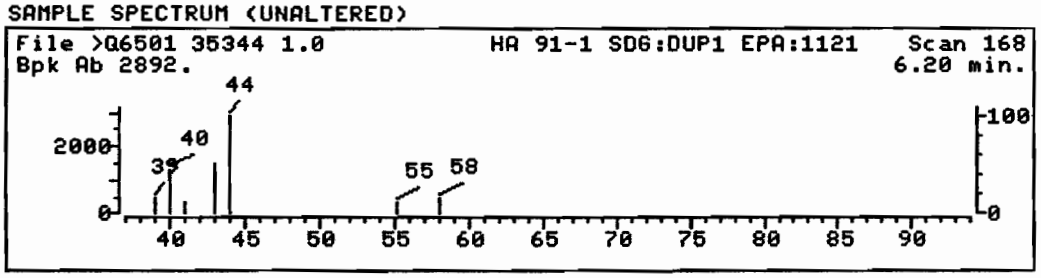
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6501::D5 Quant Output File: ^Q6501::D5
Name: 35344 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:1121
Quant Time: 950828 20:04 Quant ID File: IDECLP::QT
Injected at: 950829 03:14 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 6
Compound Name : Acetone
Scan Number : 168
Retention Time: 6.20 min.
Quant Ion : 43.0
Area : 11540
Concentration : 3.33 ppb
q-value : 90

MS data file header from : >Q6501::D5

Sample: 35344 1.0 Operator: RODH 8/29/95 3:14
Misc : HA 91-1 SDG:DUP1 EPA:1121
[illegible] #: 1 MS model: 70 SW/HW rev.: FF ALS # : 7 Equip ID: 1
[illegible]ethod file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>Q6501 35344 1.0 HA 91-1 SDG:DUP1 EPA:1121
36.0| 283.0 CLP TIC
Upslope: .2000 Area Reject: 153845. Max Peaks: 2 Bunch: -1 Valley >100 %
Dnslope: 0.0000 Results File IQ6501 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	19.99	957	971	984	21293	538591	309520	100.00	51.506
2	21.85	1066	1079	1088	26903	532912	291418	94.15	48.494

Sum of corrected areas: 600938.

Summary of Unknowns PBM Library Search and Quantitation

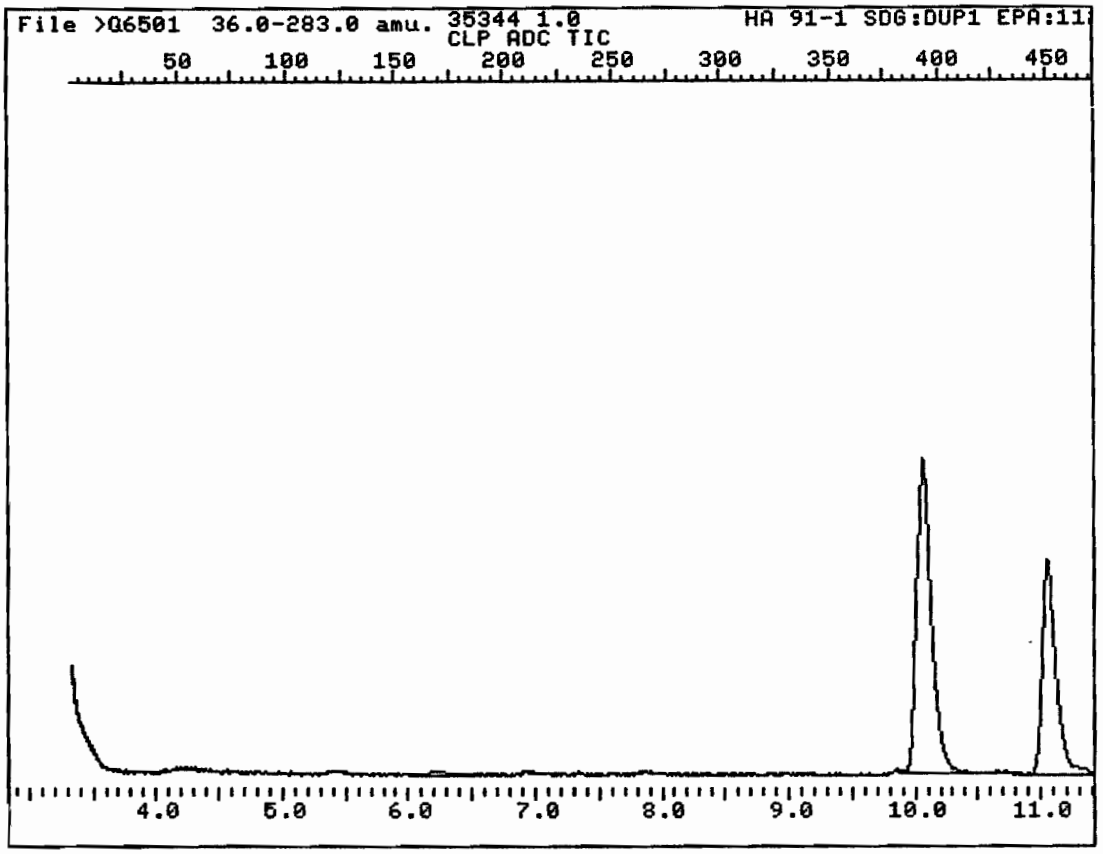
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1538447.	10.05	3.34 - 10.92
2	50.0	2284628.	11.78	10.92 - 15.00
3	50.0	2474159.	18.23	15.00 - 26.01

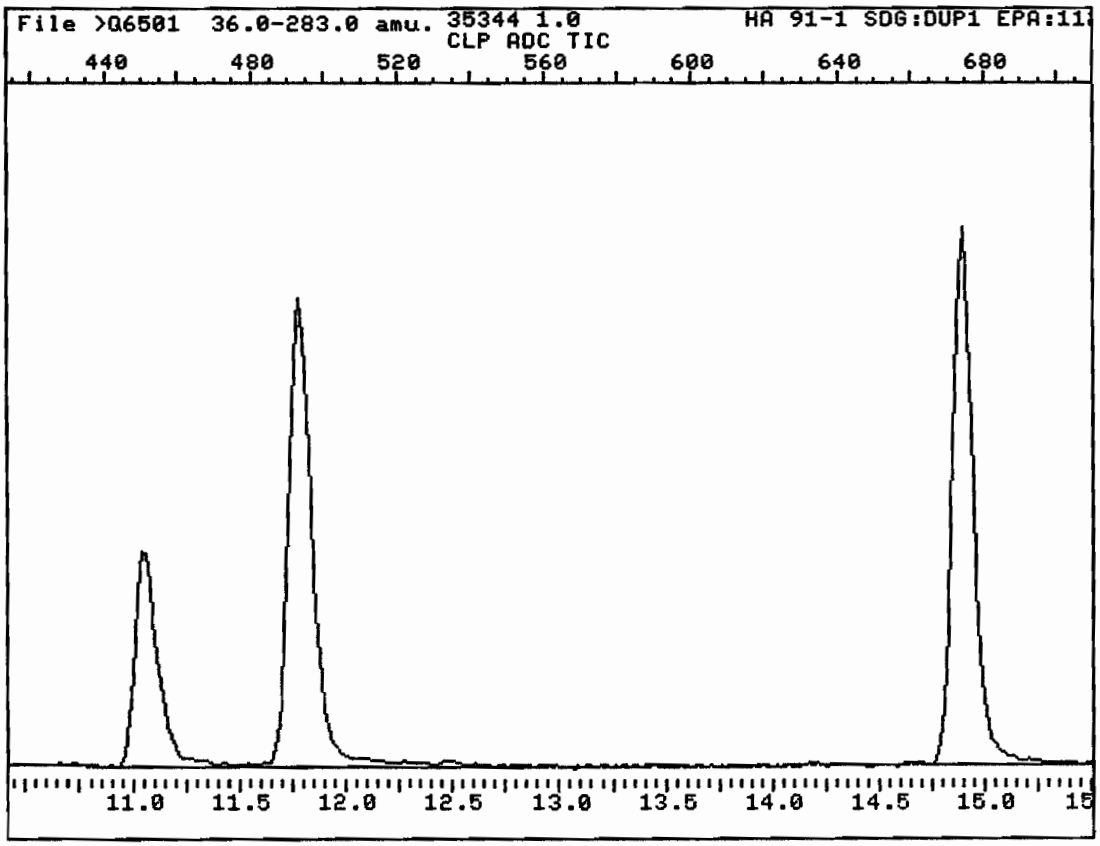
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

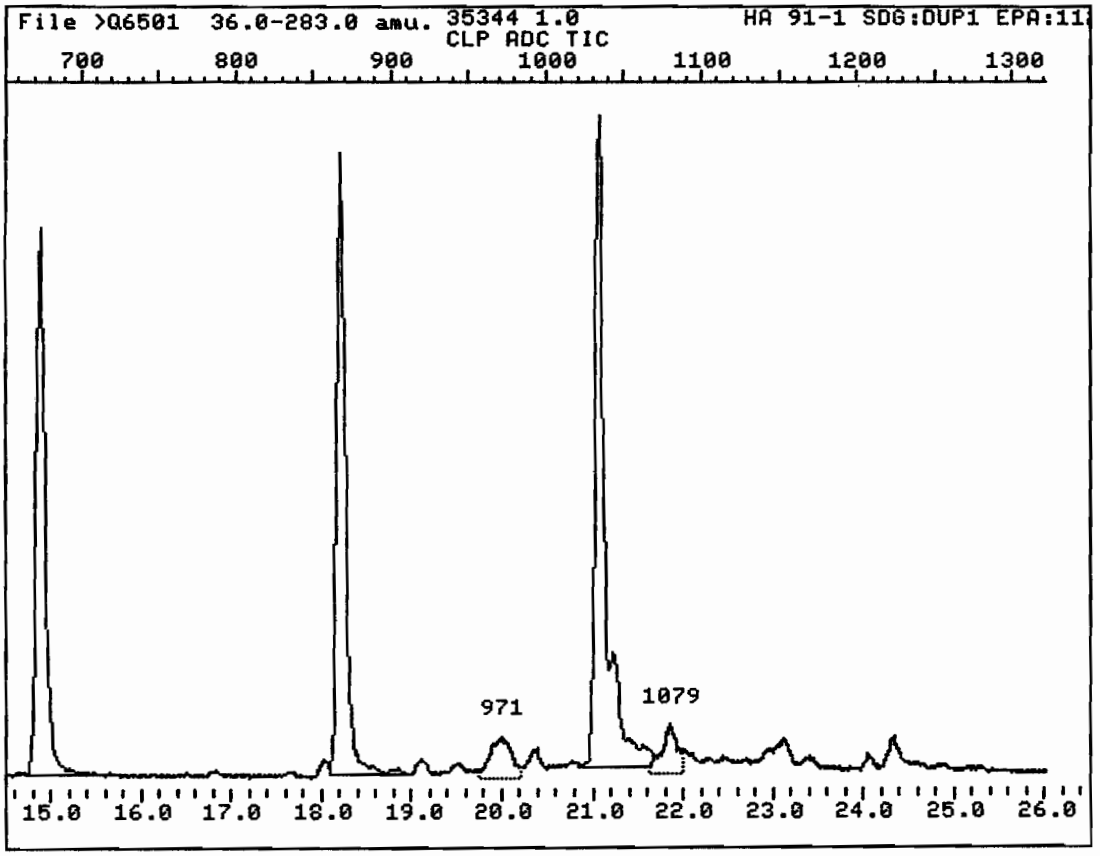
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:26 PM THU., 31 AUG., 1995

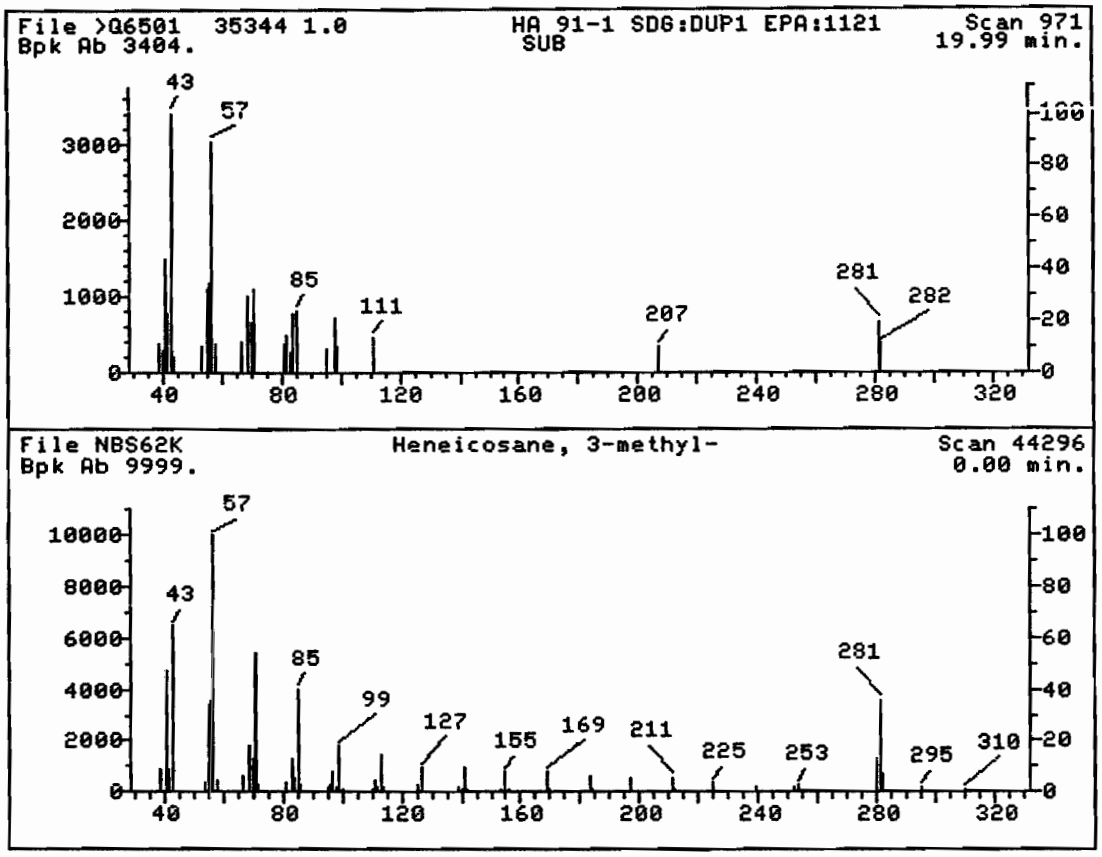




Instrument ID: 1 Analyzed on: 8/29/95 3:14



Instrument ID: 1 Analyzed on: 8/29/95 3:14



Instrument ID: 1 Analyzed on: 8/29/95 3:14

Result 1 in PBM results file: LQ6501

Retention Time: 19.99 Area: 309520 Tentative Conc: 6.00

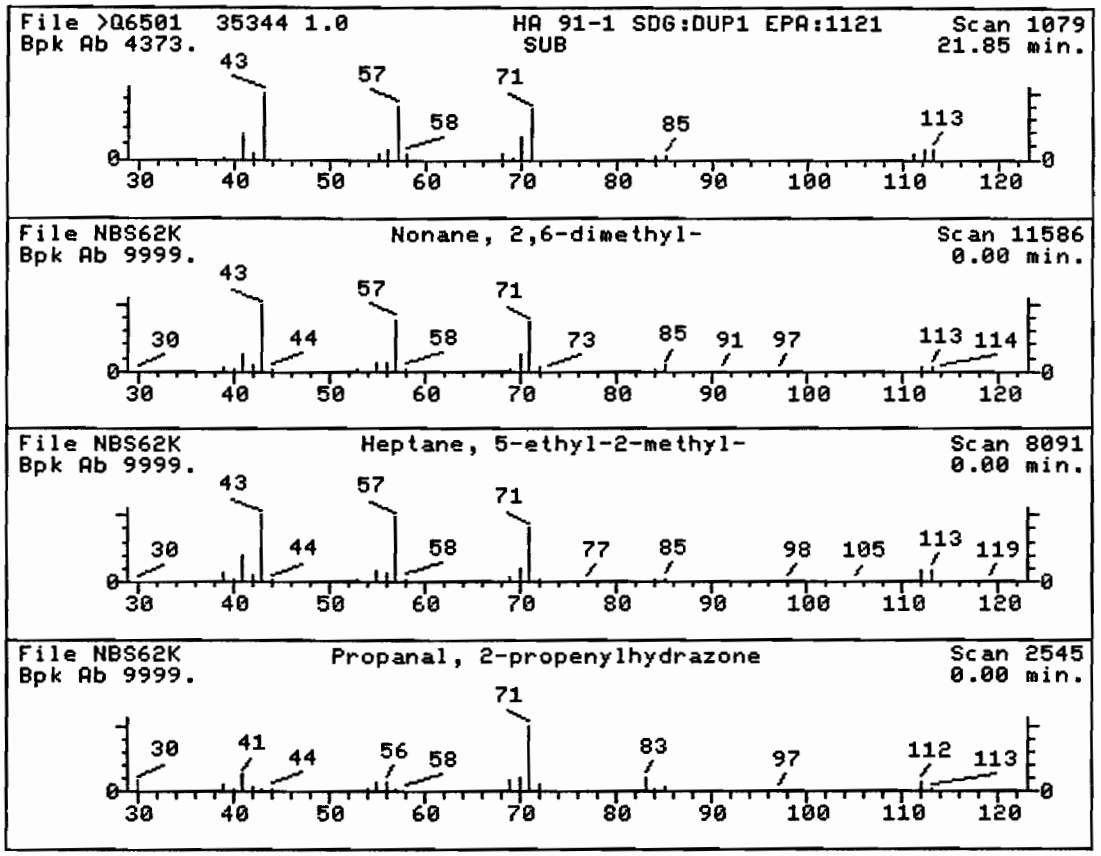
The unknown area is 12.51% of the nearest internal standard

1. Heneicosane, 3-methyl- 310 C22H46

Sample file: >Q6501 Spectrum #: 971

Search speed: 1 Tilting option: N No. of ion ranges searched: 33

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	18*	6418479	47360	NBS62K	52	103	2	0	56	56	4	27



Instrument ID: 1 Analyzed on: 8/29/95 3:14
Result 2 in PBM results file: LQ6501
Retention Time: 21.85 Area: 291418 Tentative Conc: 6.00
The unknown area is 11.78% of the nearest internal standard

* hyd

1. Nonane, 2,6-dimethyl- 156 C11H24
2. Heptane, 5-ethyl-2-methyl- 142 C10H22
3. Propanal, 2-propenylhydrazone 112 C6H12N2

Sample file: >Q6501 Spectrum #: 1079
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	17302282	5231	NBS62K	47	46	2	0	100	8	42	13
2.	60	13475780	5203	NBS62K	62	39	2	0	83	11	30	19
3.	25*	19031788	5133	NBS62K	28	71	3	0	75	50	7	13

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1146

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35345

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6502

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	3.	J
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1146

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35345

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6502

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
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28.					
29.					
30.					

00236

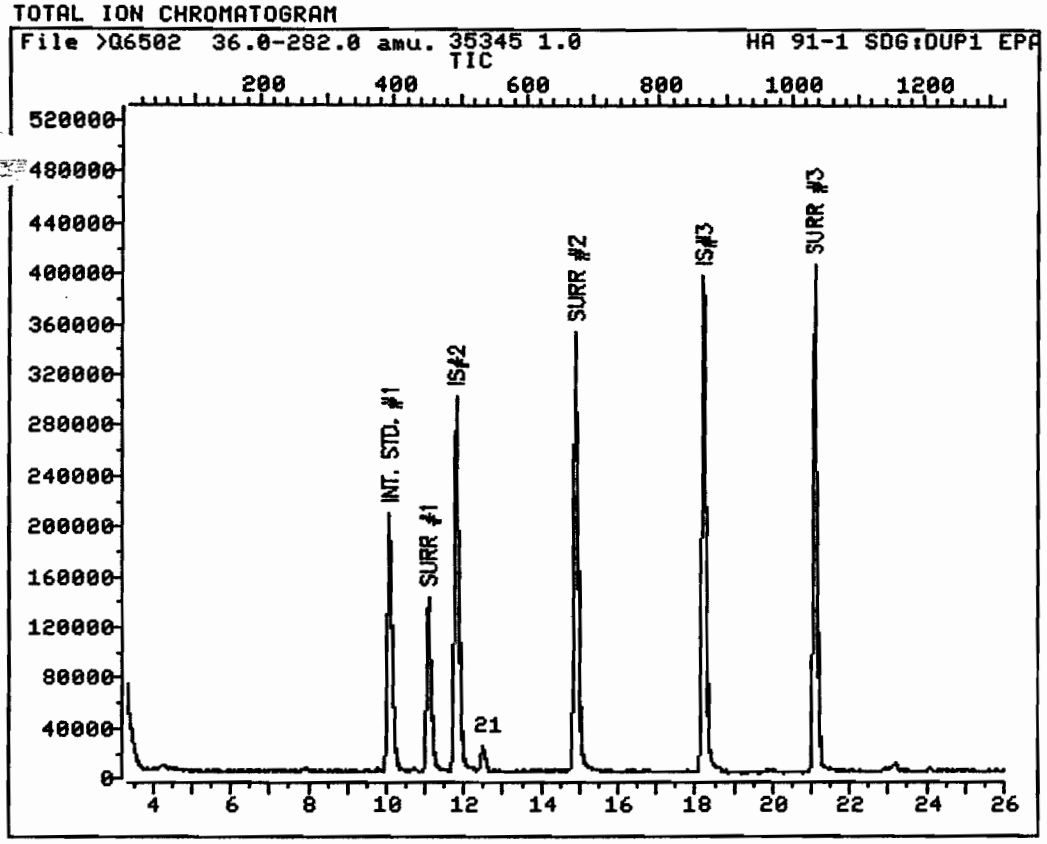
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 20:06
Output File: ^Q6502::D5 Injected at: 950829 03:48
Data File: >Q6502::D5 Dilution Factor: 1.00000
Name: 35345 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:1146

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.07	128.0	212453	50.00	ppb	98
16)	1,2-Dichloroethane-d4	11.06	65.0	351760	48.57	ppb	92
17)	*1,4-Difluorobenzene	11.78	114.0	897125	50.00	ppb	83
21)	Trichloroethene	12.47	130.0	26091	2.88	ppb	94
29)	*Chlorobenzene-d5	18.21	117.0	828849	50.00	ppb	96
31)	Toluene-d8	14.89	98.0	836155	48.64	ppb	85
41)	Bromofluorobenzene	21.06	95.0	536864	49.95	ppb	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM

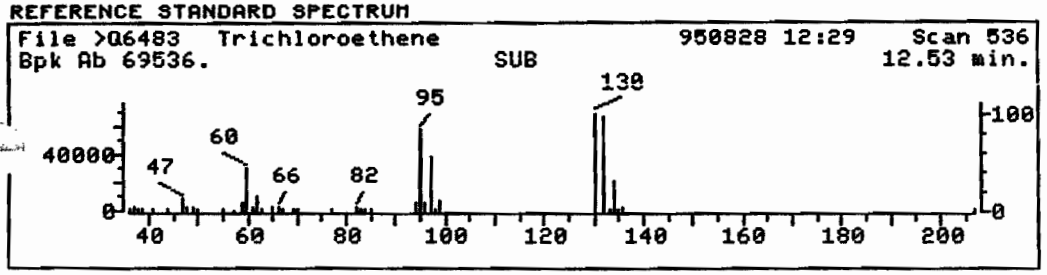


Data File: >Q6502::D5 Quant Output File: ^Q6502::D5
Name: 35345 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:1146

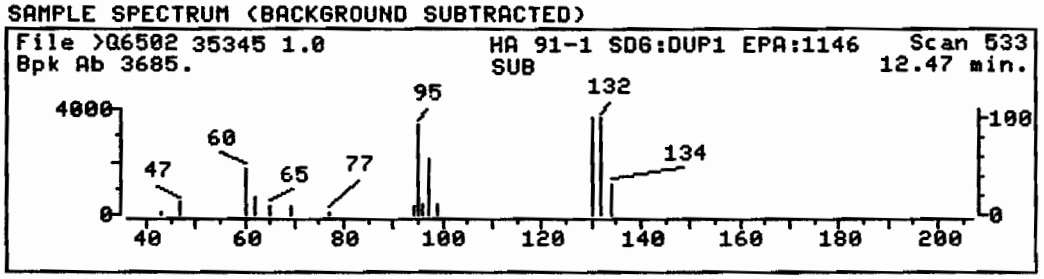
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 20:06
Injected at: 950829 03:48

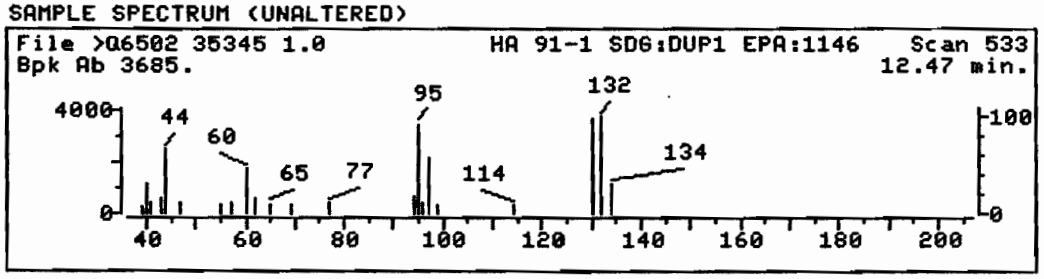
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6502::D5
Quant Output File: ^Q6502::D5
Name: 35345 1.0
Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:1146
Quant Time: 950828 20:06
Quant ID File: IDECLP::QT
Injected at: 950829 03:48
Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 533
Retention Time: 12.47 min.
Quant Ion : 130.0
Area : 26091
Concentration : 2.88 ppb
q-value : 94

MS data file header from : >Q6502::D5

Sample: 35345 1.0 Operator: RODH 8/29/95 3:48
Misc : HA 91-1 SDG:DUP1 EPA:1146
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 8 Equip ID: 1
Method file: REGVOA Tuninq file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deq/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

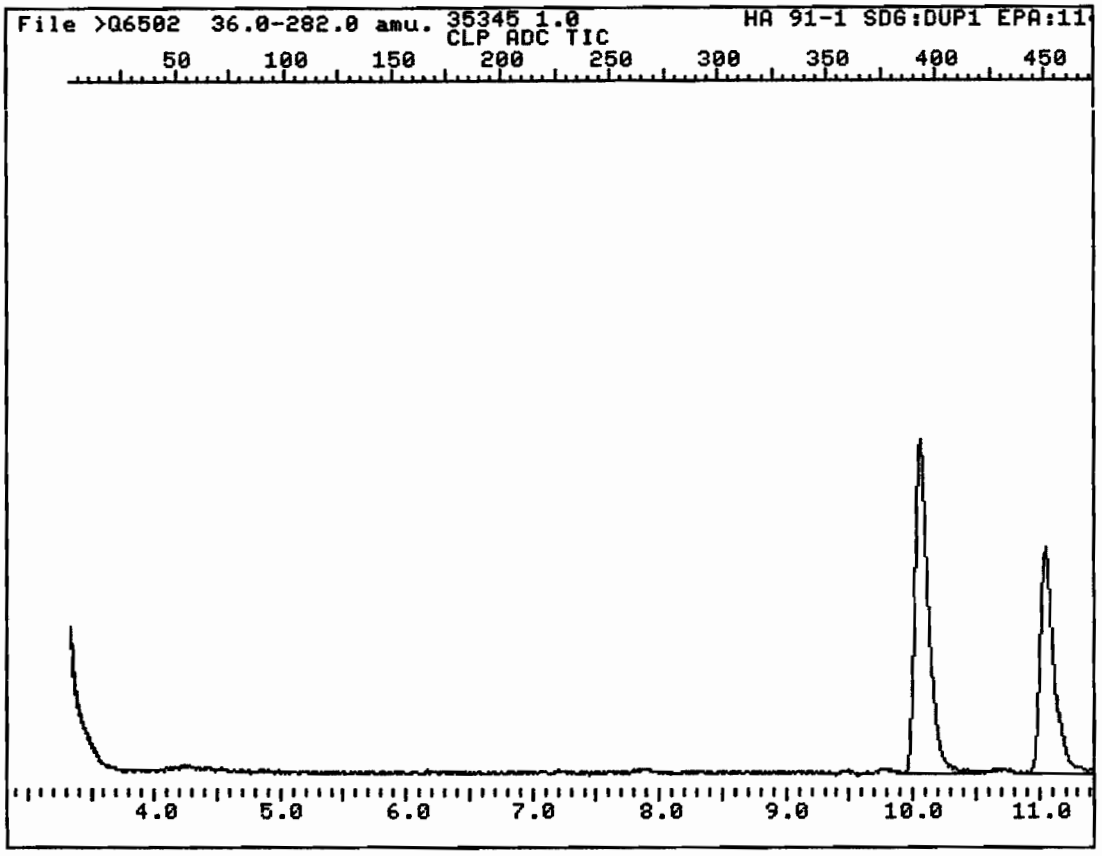
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1544776.	10.07	3.34 - 10.93
2	50.0	2186200.	11.78	10.93 - 15.00
3	50.0	2530643.	18.21	15.00 - 26.01

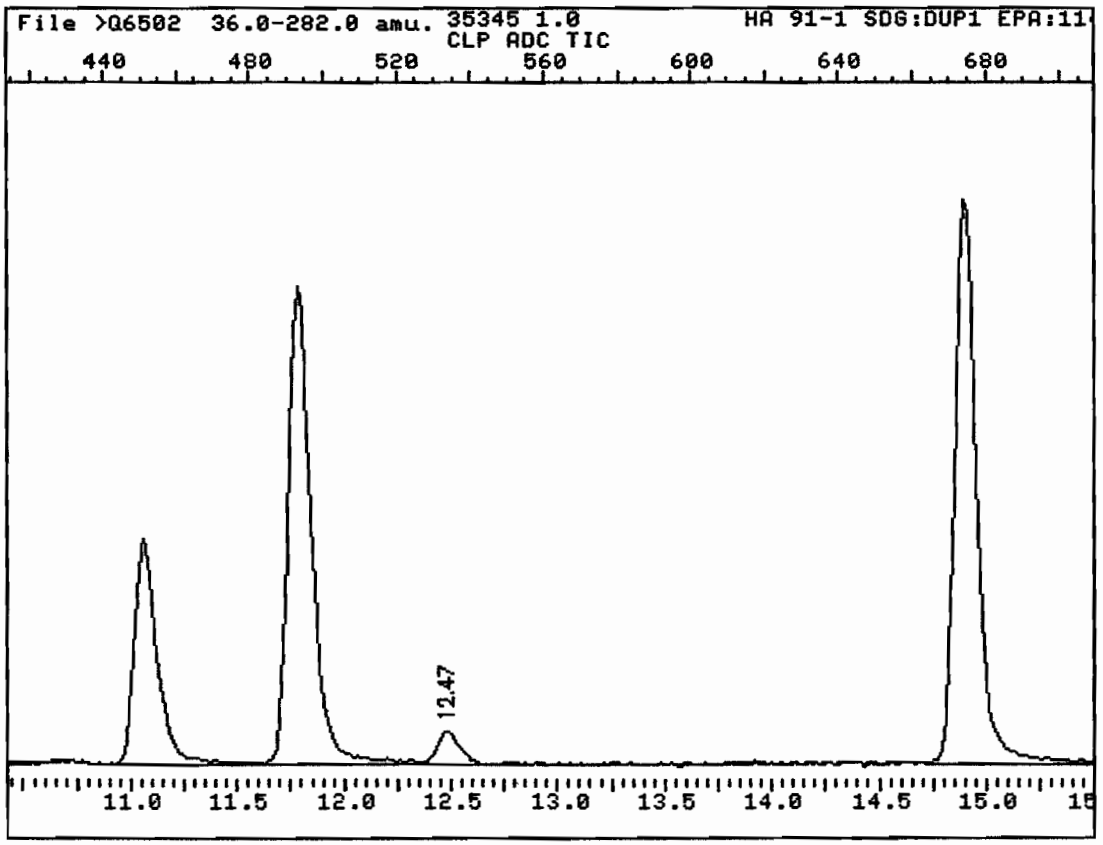
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

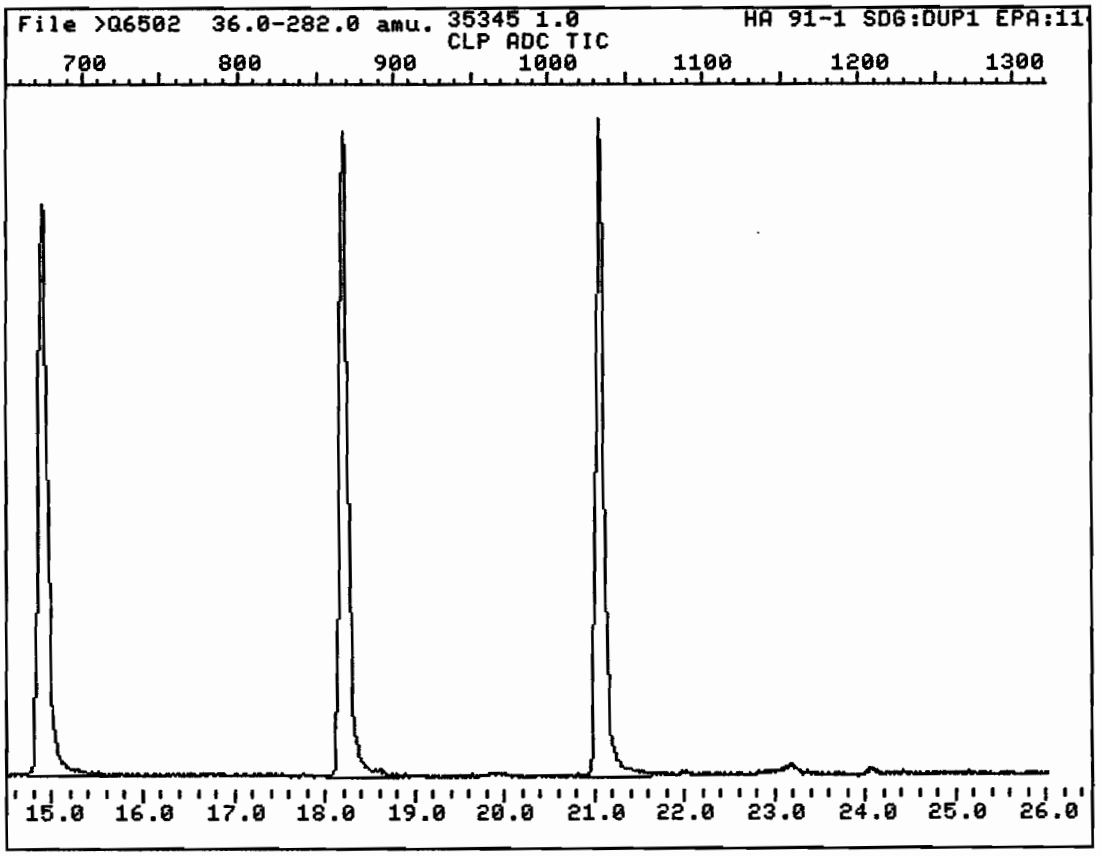
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:37 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 3:48



Instrument ID: 1 **Analyzed on: 8/29/95 3:48**

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1167

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35350

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6517

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RT-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	2.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	2.	J
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	9.	J
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1167

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35350

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6517

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RT-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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28.					
29.					
30.					

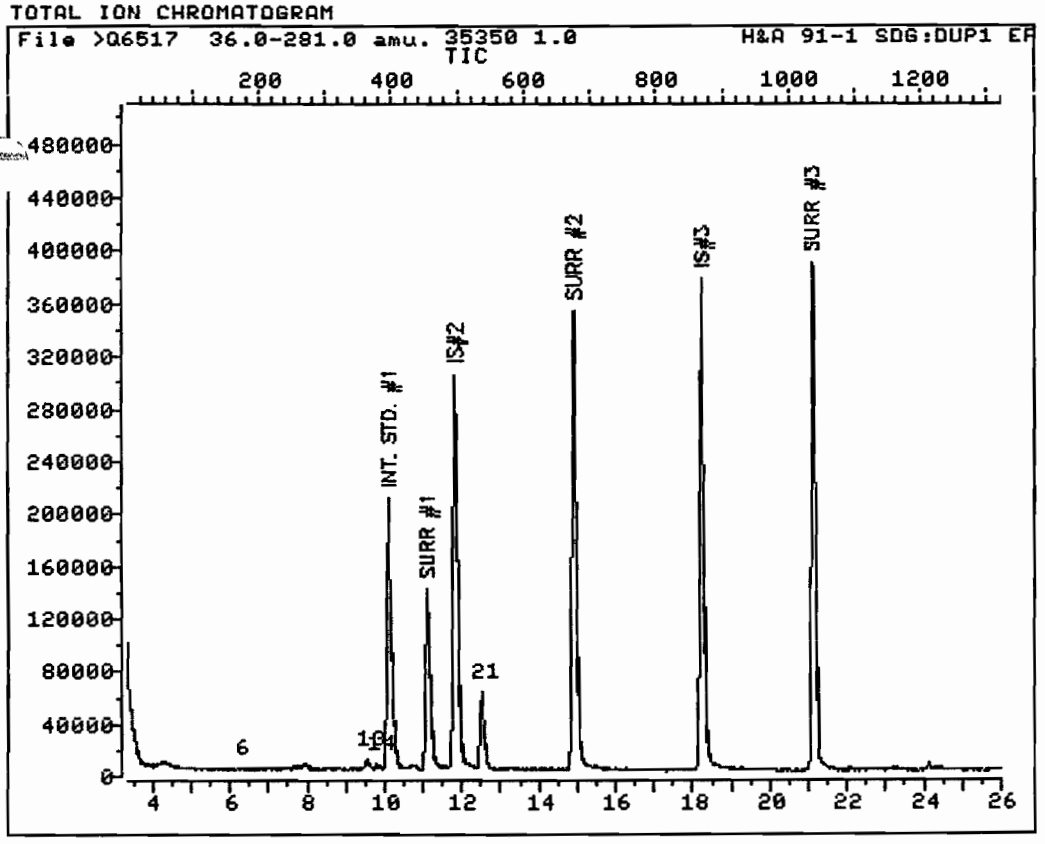
Operator ID: RODH Quant Rev: 7 Quant Time: 950829 05:16
Output File: ^Q6517::D3 Injected at: 950829 16:27
Data File: >Q6517::D3 Dilution Factor: 1.00000
Name: 35350 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:1167

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.10	128.0	216594	50.00	ppb	97
6)	Acetone	6.24	43.0	7252	2.21	ppb	91
13)	cis-1,2-Dichloroethene	9.52	96.0	13541	2.11	ppb	92
14)	Chloroform	9.81	83.0	16733	1.33	ppb	97
16)	1,2-Dichloroethane-d4	11.10	65.0	346334	46.63	ppb	92
17)	*1,4-Difluorobenzene	11.82	114.0	918338	50.00	ppb	84
21)	Trichloroethene	12.51	130.0	78667	9.46	ppb	99
29)	*Chlorobenzene-d5	18.24	117.0	782089	50.00	ppb	95
31)	Toluene-d8	14.93	98.0	842121	52.28	ppb	85
41)	Bromofluorobenzene	21.09	95.0	523148	50.56	ppb	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM

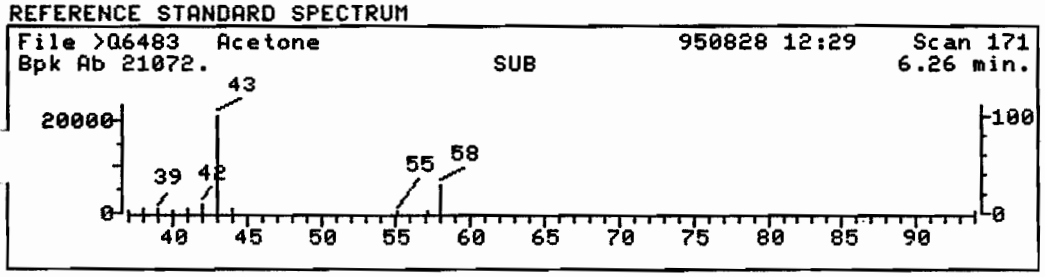


Data File: >Q6517::D3 Quant Output File: ^Q6517::D3
Name: 35350 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:1167

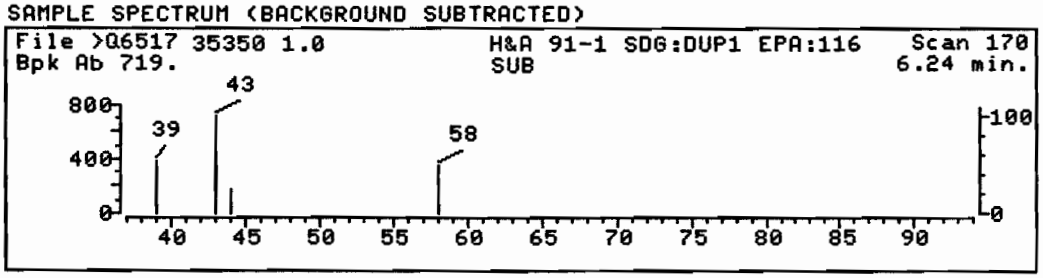
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: RODH
Quant Time : 950829 05:16
Injected at: 950829 16:27

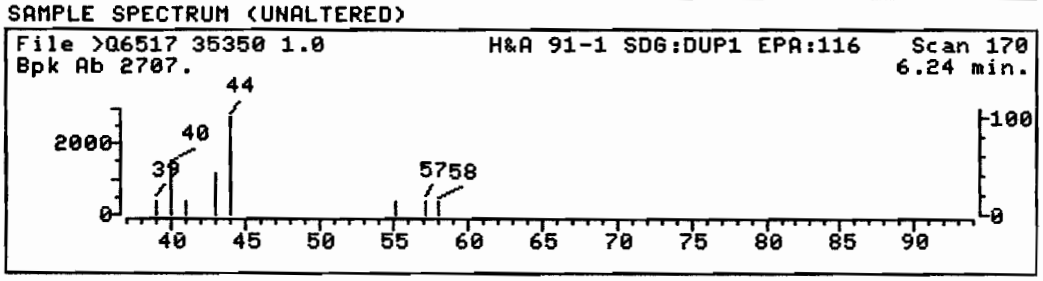
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



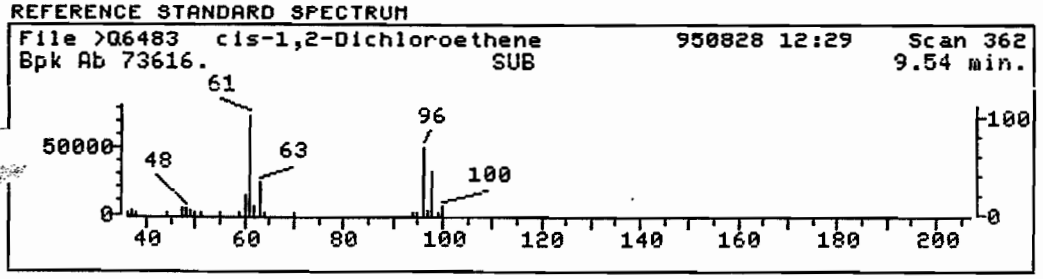
SAMPLE SPECTRUM (UNALTERED)



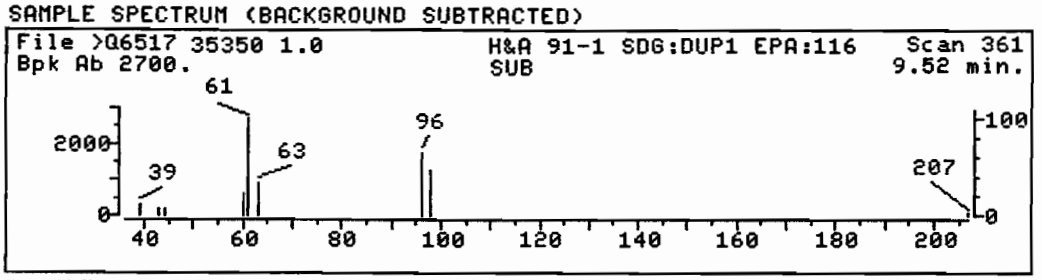
Data File: >Q6517::D3 Quant Output File: ^Q6517::D3
Name: 35350 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:1167
Quant Time: 950829 05:16 Quant ID File: IDECLP::QT
Injected at: 950829 16:27 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 6
Compound Name : Acetone
Scan Number : 170
Retention Time: 6.24 min.
Quant Ion : 43.0
Area : 7252
Concentration : 2.21 ppb
q-value : 91

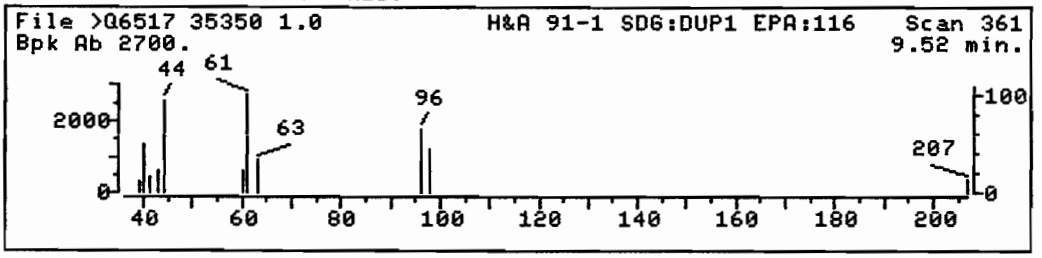
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



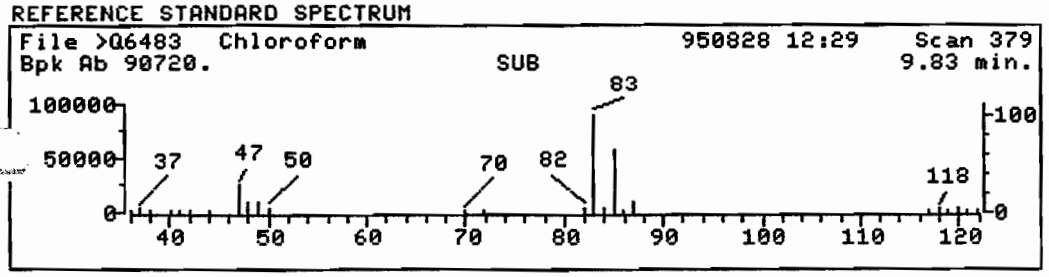
SAMPLE SPECTRUM (UNALTERED)



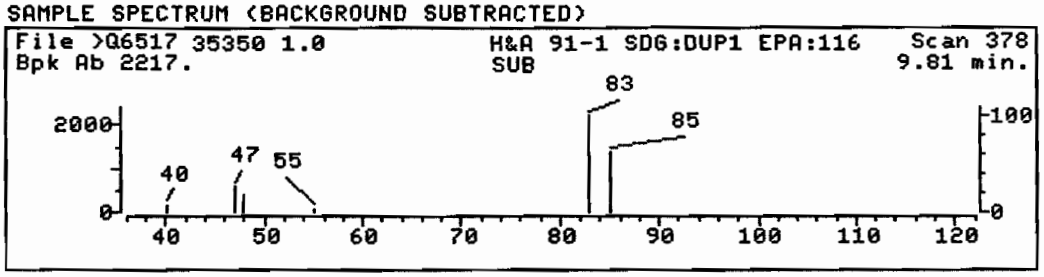
Data File: >Q6517::D3 Quant Output File: ^Q6517::D3
Name: 35350 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:1167
Quant Time: 950829 05:16 Quant ID File: IDECLP::QT
Injected at: 950829 16:27 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 361
Retention Time: 9.52 min.
Quant Ion : 96.0
Area : 13541
Concentration : 2.11 ppb
q-value : 92

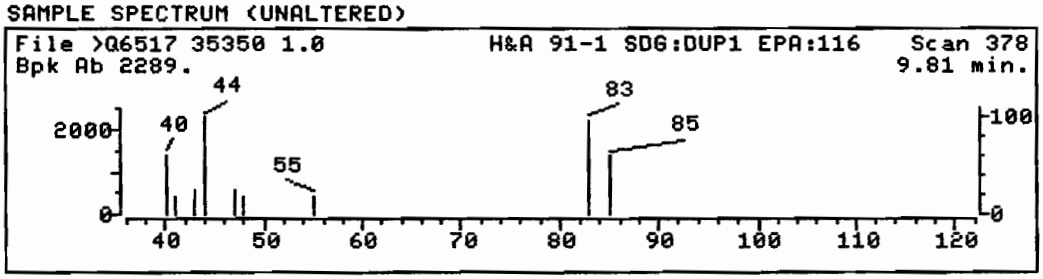
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



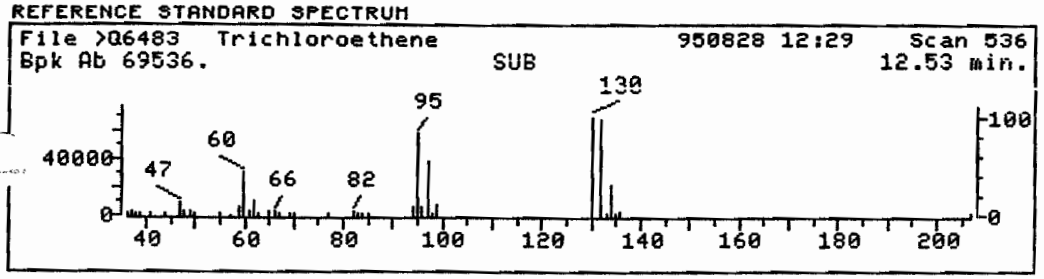
SAMPLE SPECTRUM (UNALTERED)



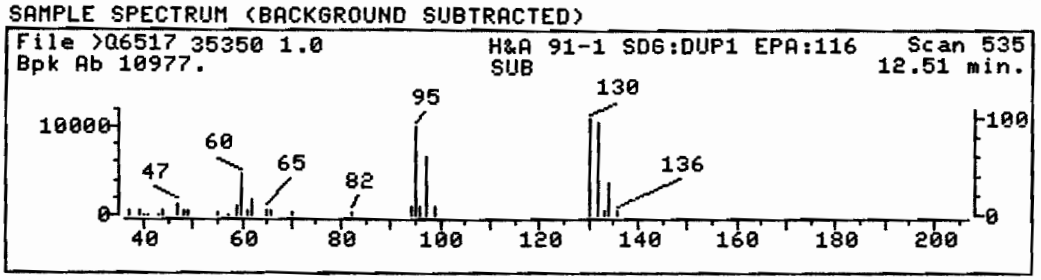
Data File: >Q6517::D3 Quant Output File: ^Q6517::D3
Name: 35350 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:1167
Quant Time: 950829 05:16 Quant ID File: IDECLP::QT
Injected at: 950829 16:27 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 14
Compound Name : Chloroform
Scan Number : 378
Retention Time: 9.81 min.
Quant Ion : 83.0
Area : 16733
Concentration : 1.33 ppb
q-value : 97

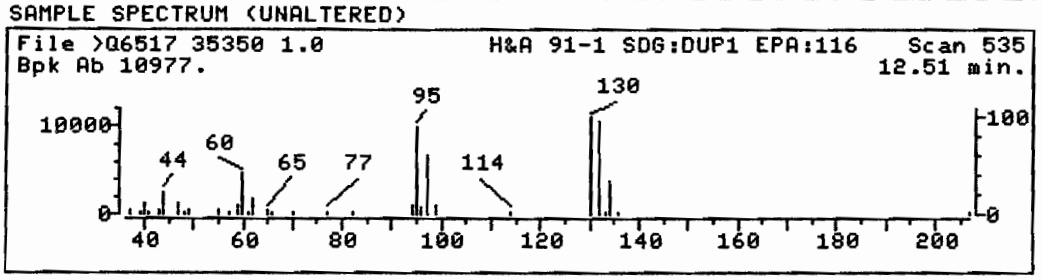
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6517::D3 Quant Output File: ^Q6517::D3
Name: 35350 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:1167
Quant Time: 950829 05:16 Quant ID File: IDECLP::QT
Injected at: 950829 16:27 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 535
Retention Time: 12.51 min.
Quant Ion : 130.0
Area : 78667
Concentration : 9.46 ppb
q-value : 99

MS data file header from : >Q6517::D3

Sample: 35350 1.0 Operator: RODH 8/29/95 16:27
Misc : H&A 91-1 SDG:DUP1 EPA:~~1157~~ 1167 (BL) 9/1/95
s. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

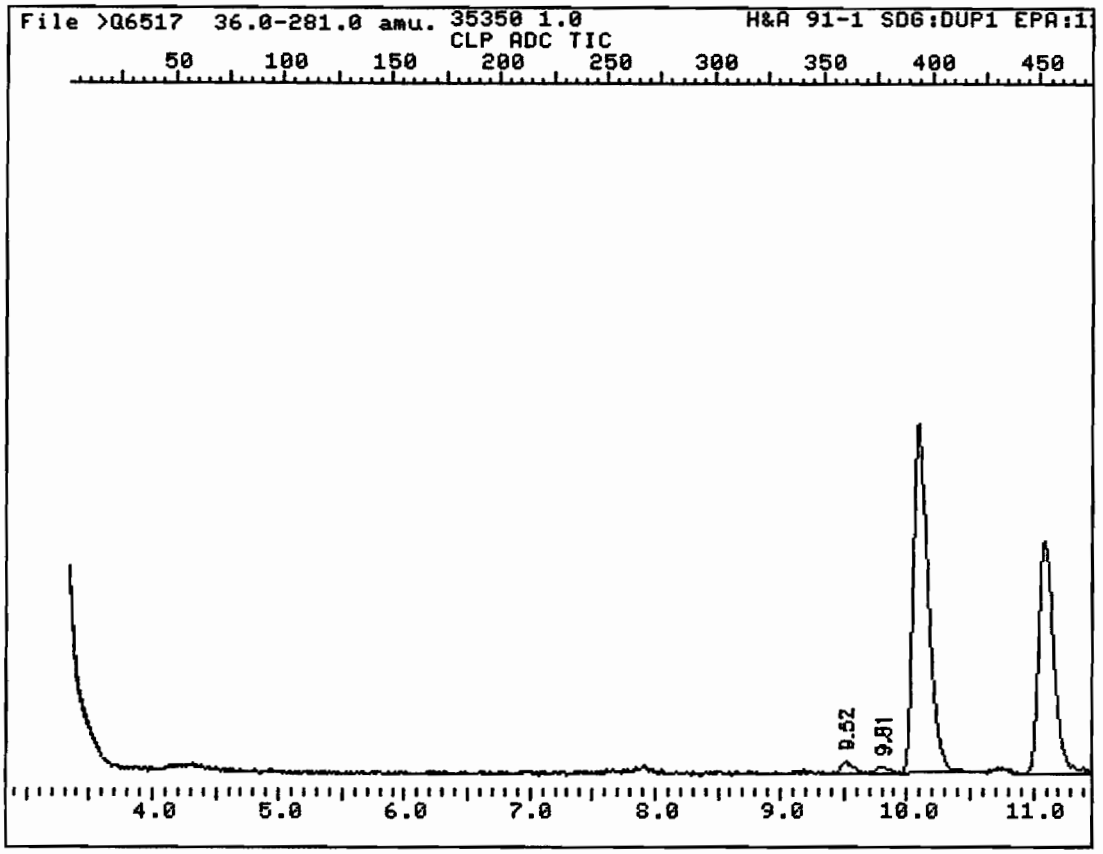
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1562659.	10.10	3.34 - 10.96
2	50.0	2195929.	11.82	10.96 - 15.03
3	50.0	2431492.	18.24	15.03 - 26.01

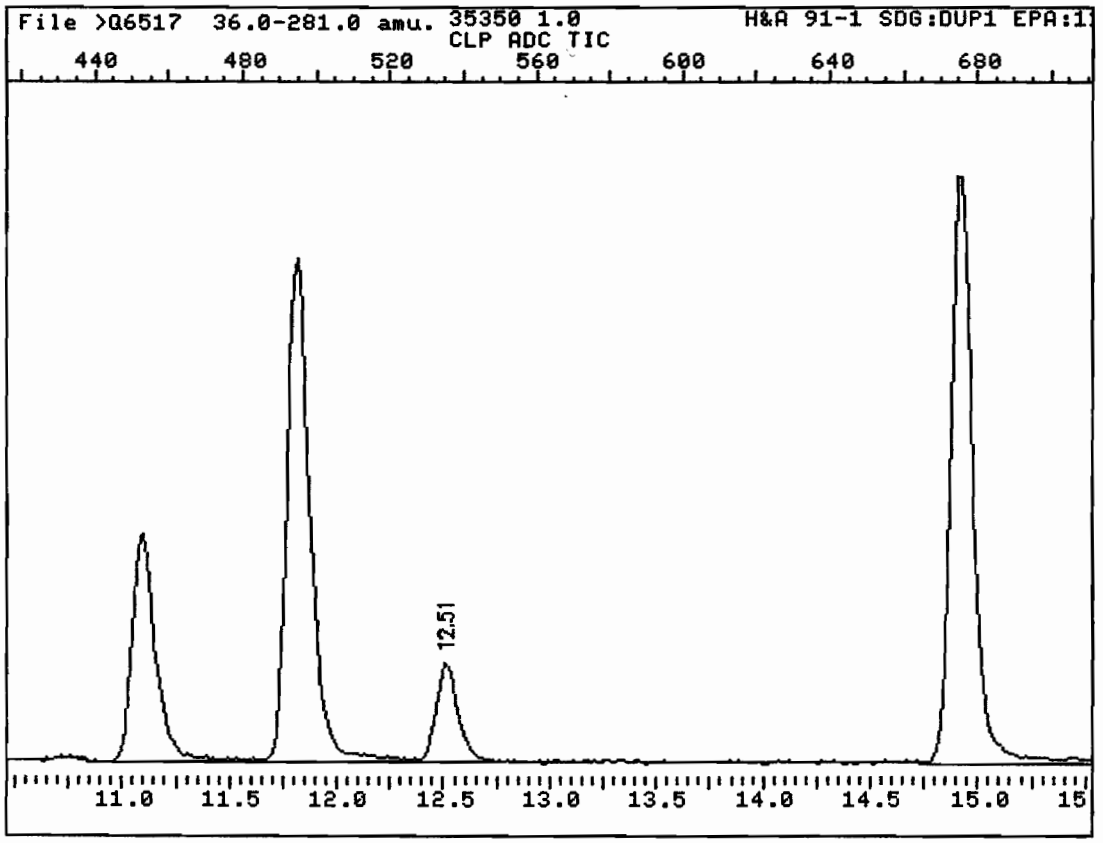
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

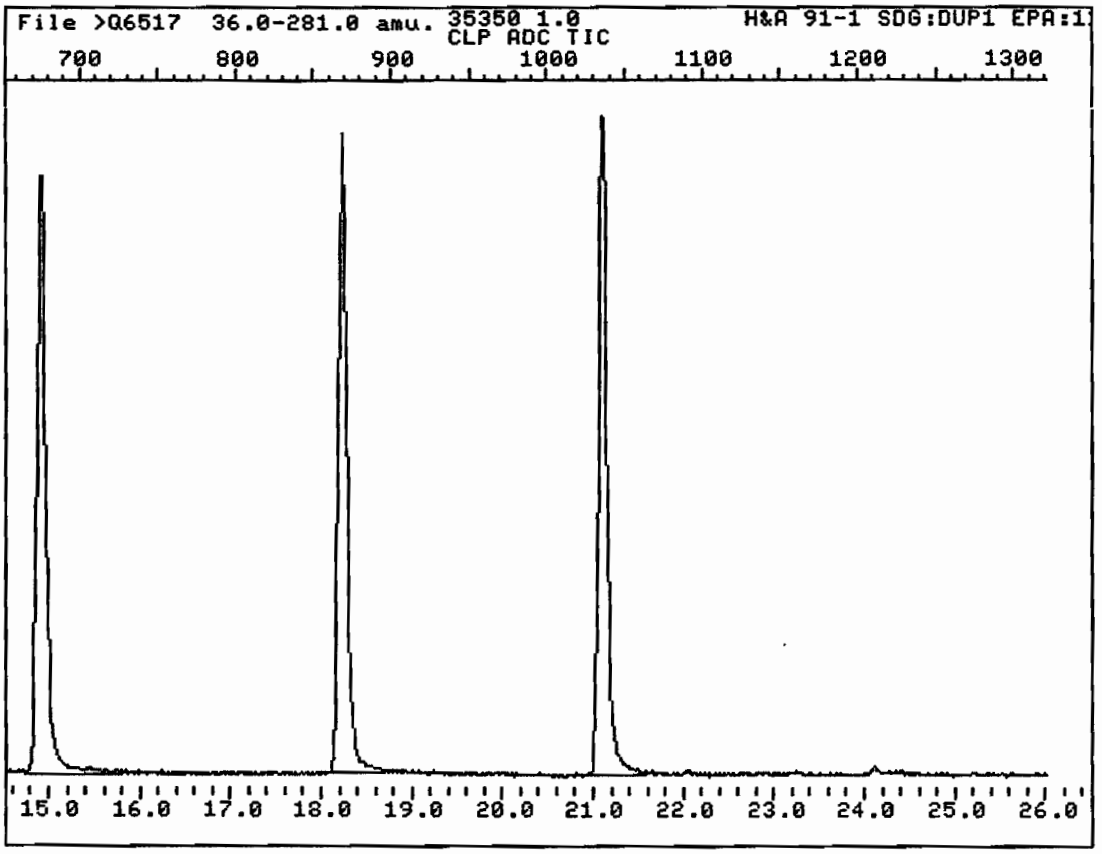
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} * \text{Area Unknown}|}{|\text{Area Int Std}|} * \text{Correction Factor}$$

1:19 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 16:27



Instrument ID: 1 **Analyzed on: 8/29/95 16:27**

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7852

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35346

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6503

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	9.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	2.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	1.	J
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7852

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35346

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6503

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
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30.					

00253B

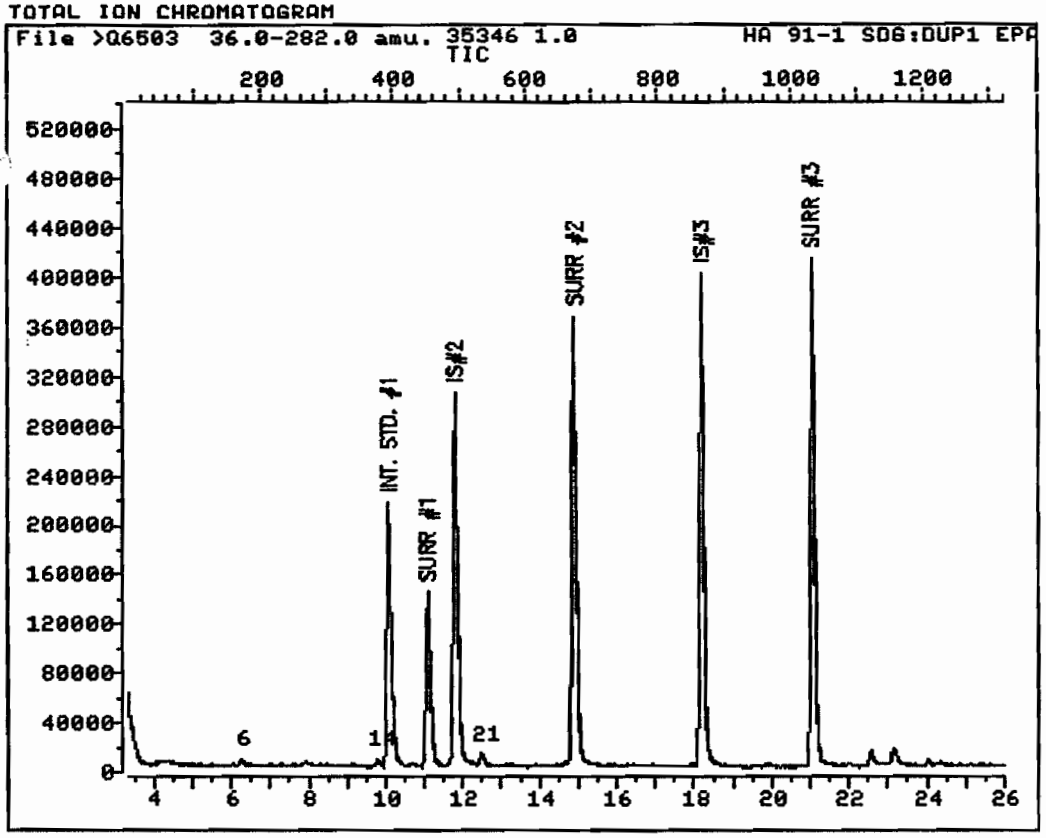
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 20:08
Output File: ^Q6503::D5 Injected at: 950829 04:22
Data File: >Q6503::D5 Dilution Factor: 1.00000
Name: 35346 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7852

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.07	128.0	218061	50.00	ppb	98
6)	Acetone	6.22	43.0	32260	9.21	ppb	93
14)	Chloroform	9.77	83.0	22002	1.59	ppb	97
16)	1,2-Dichloroethane-d4	11.06	65.0	358298	48.20	ppb	92
17)	*1,4-Difluorobenzene	11.78	114.0	923055	50.00	ppb	82
21)	Trichloroethene	12.49	130.0	11977	1.29	ppb	87
29)	*Chlorobenzene-d5	18.19	117.0	828819	50.00	ppb	95
31)	Toluene-d8	14.89	98.0	861080	50.09	ppb	89
41)	Bromofluorobenzene	21.02	95.0	548865	51.07	ppb	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM

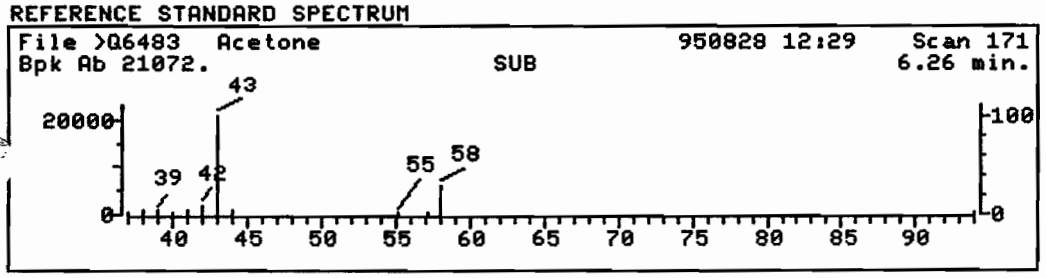


Data File: >Q6503::D5 Quant Output File: ^Q6503::D5
Name: 35346 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7852

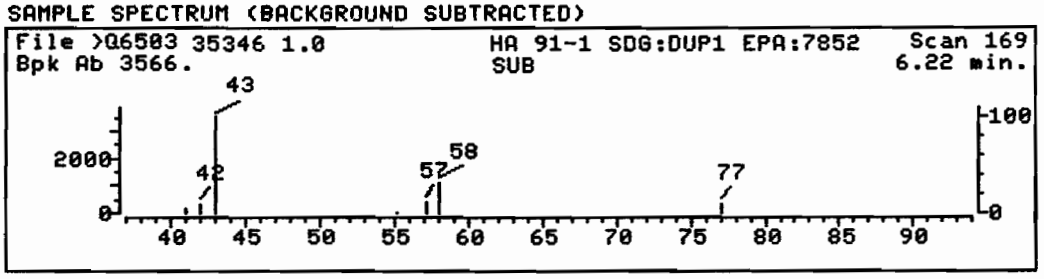
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 20:08
Injected at: 950829 04:22

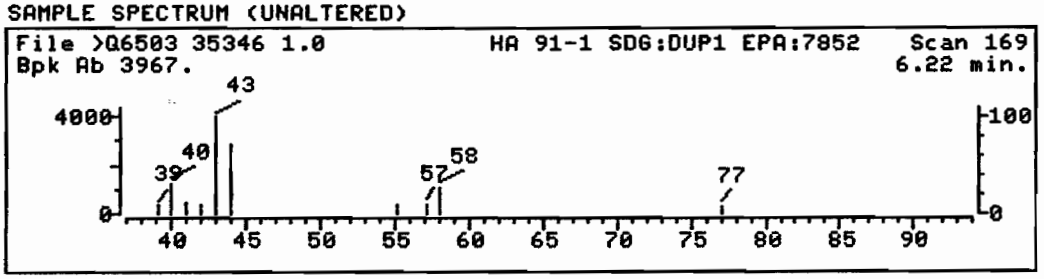
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



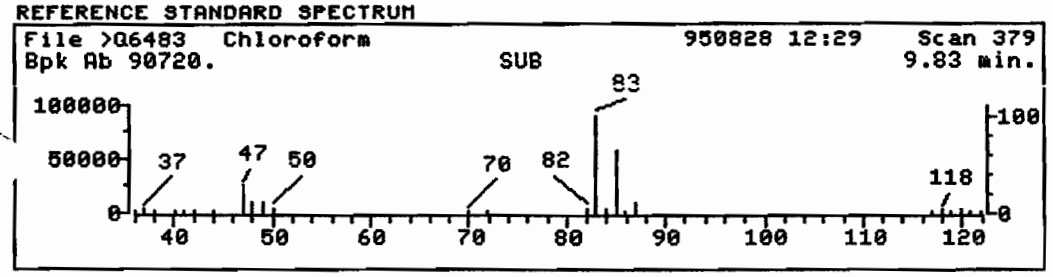
SAMPLE SPECTRUM (UNALTERED)



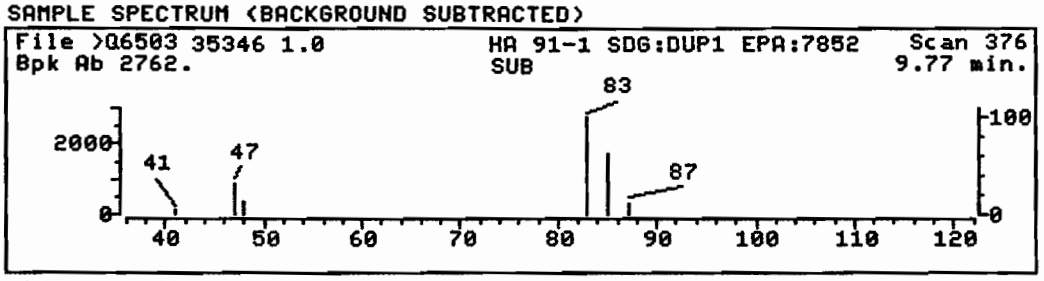
Data File: >Q6503::D5 Quant Output File: ^Q6503::D5
Name: 35346 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7852
Quant Time: 950828 20:08 Quant ID File: IDECLP::QT
Injected at: 950829 04:22 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 6
Compound Name : Acetone
Scan Number : 169
Retention Time: 6.22 min.
Quant Ion : 43.0
Area : 32260
Concentration : 9.21 ppb
q-value : 93

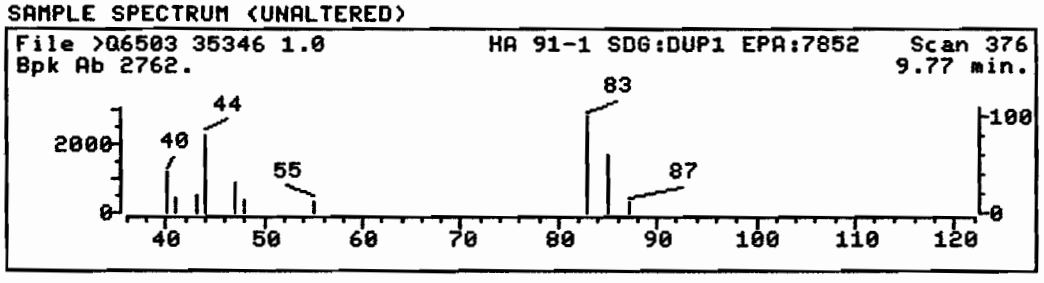
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



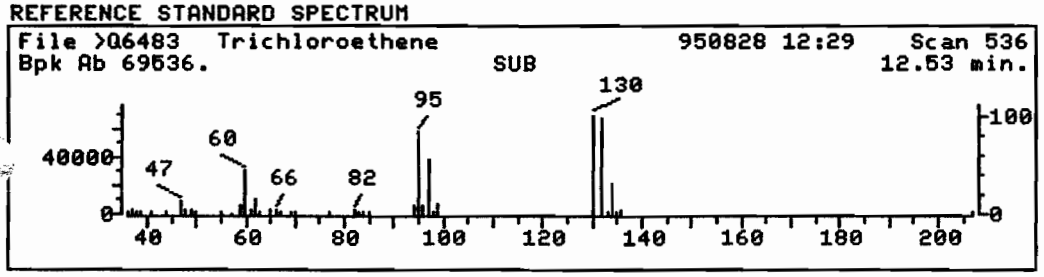
SAMPLE SPECTRUM (UNALTERED)



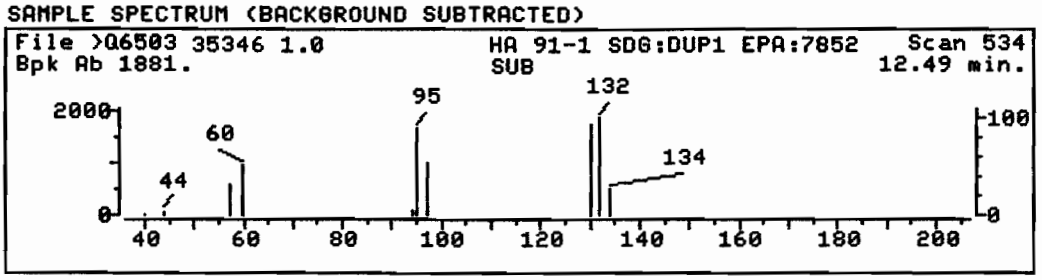
Data File: >Q6503::D5 Quant Output File: ^Q6503::D5
Name: 35346 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7852
Quant Time: 950828 20:08 Quant ID File: IDECLP::QT
Injected at: 950829 04:22 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 14
Compound Name : Chloroform
Scan Number : 376
Retention Time: 9.77 min.
Quant Ion : 83.0
Area : 22002
Concentration : 1.59 ppb
q-value : 97

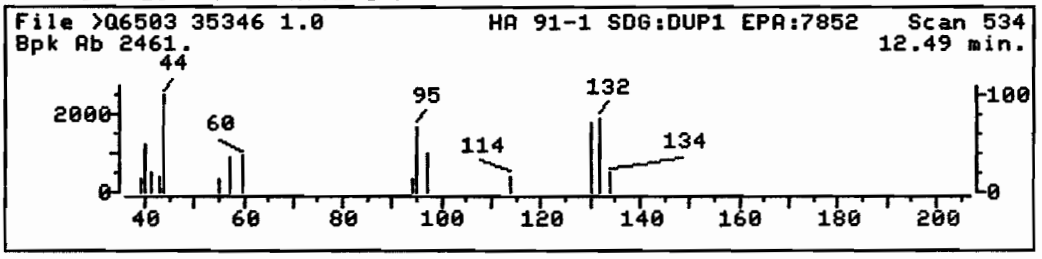
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6503::D5 Quant Output File: ^Q6503::D5
Name: 35346 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7852
Quant Time: 950828 20:08 Quant ID File: IDECLP::QT
Injected at: 950829 04:22 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 534
Retention Time: 12.49 min.
Quant Ion : 130.0
Area : 11977
Concentration : 1.29 ppb
q-value : 87

MS data file header from : >Q6503::D5

Sample: 35346 1.0 Operator: RODH 8/29/95 4:22
Misc : HA 91-1 SDG:DUP1 EPA:7852
Sys. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 9 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

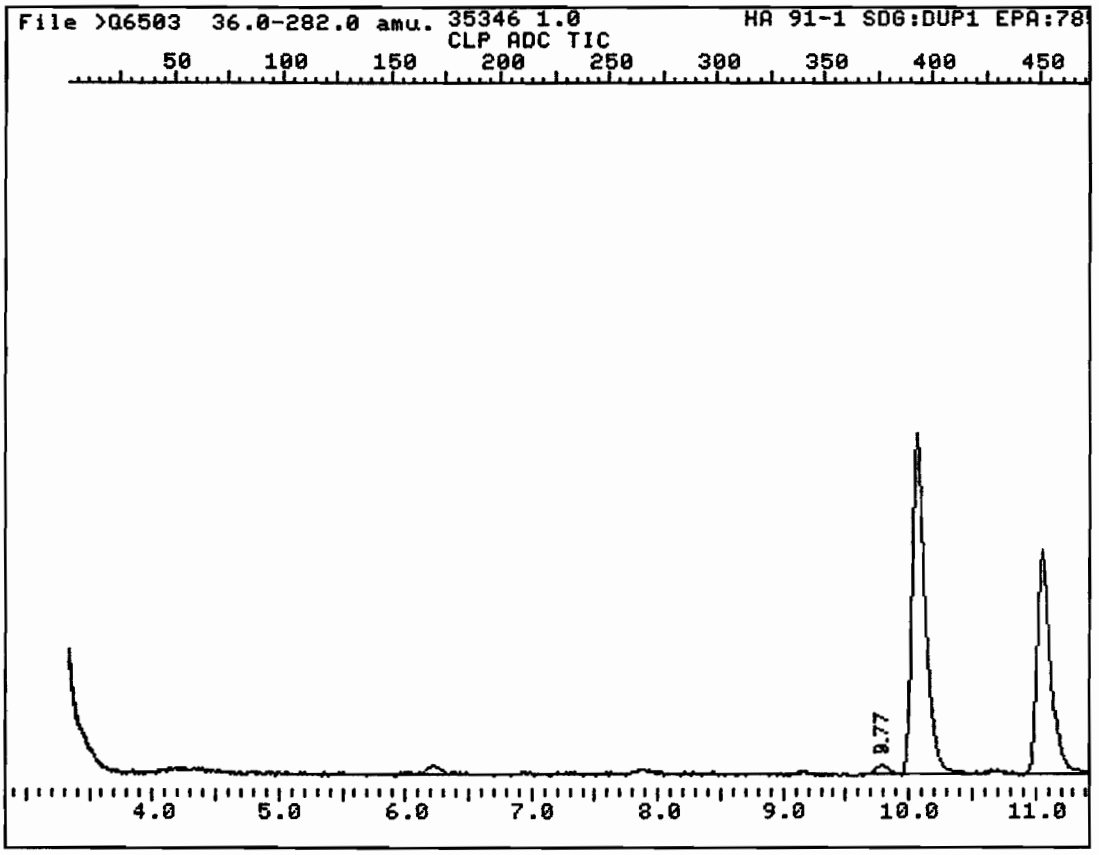
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1582685.	10.07	3.34 - 10.93
2	50.0	2240671.	11.78	10.93 - 14.99
3	50.0	2517068.	18.19	14.99 - 26.01

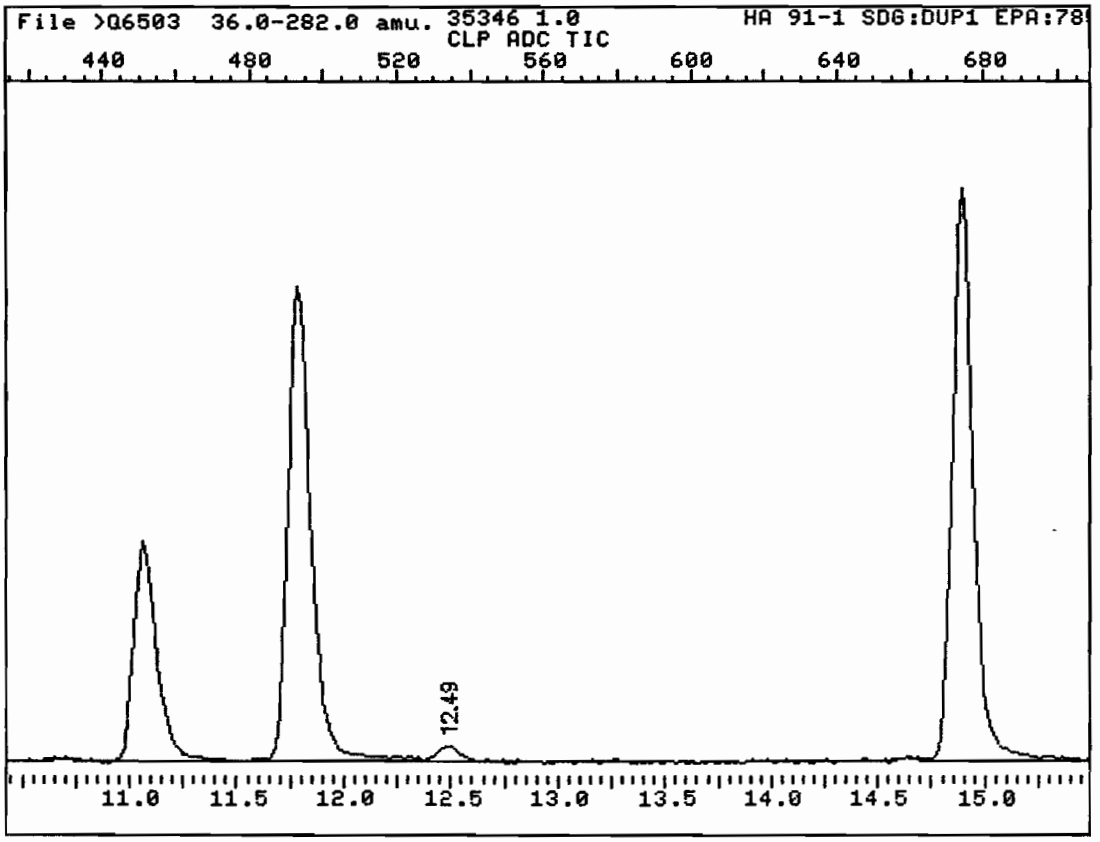
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

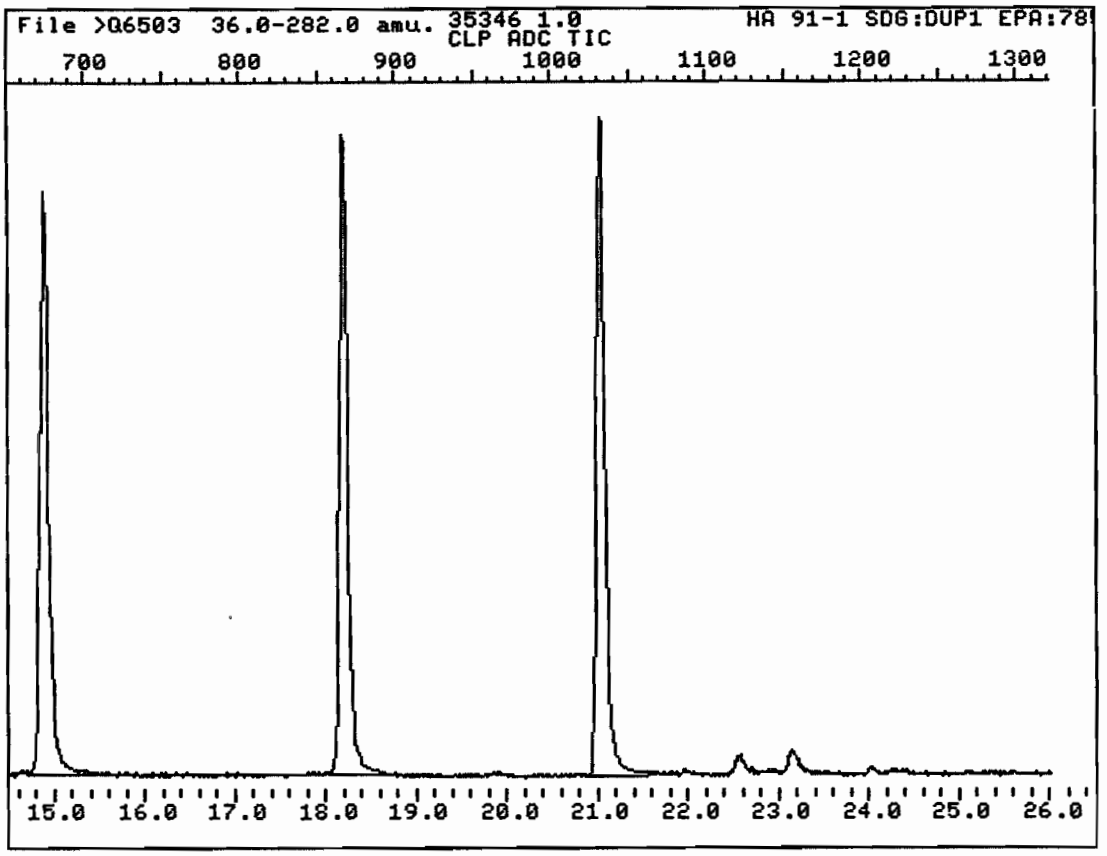
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:43 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 4:22



Instrument ID: 1 **Analyzed on: 8/29/95 4:22**

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7873

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35347

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6504

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	2.	J
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	6.	J
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7873

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35347

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6504

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

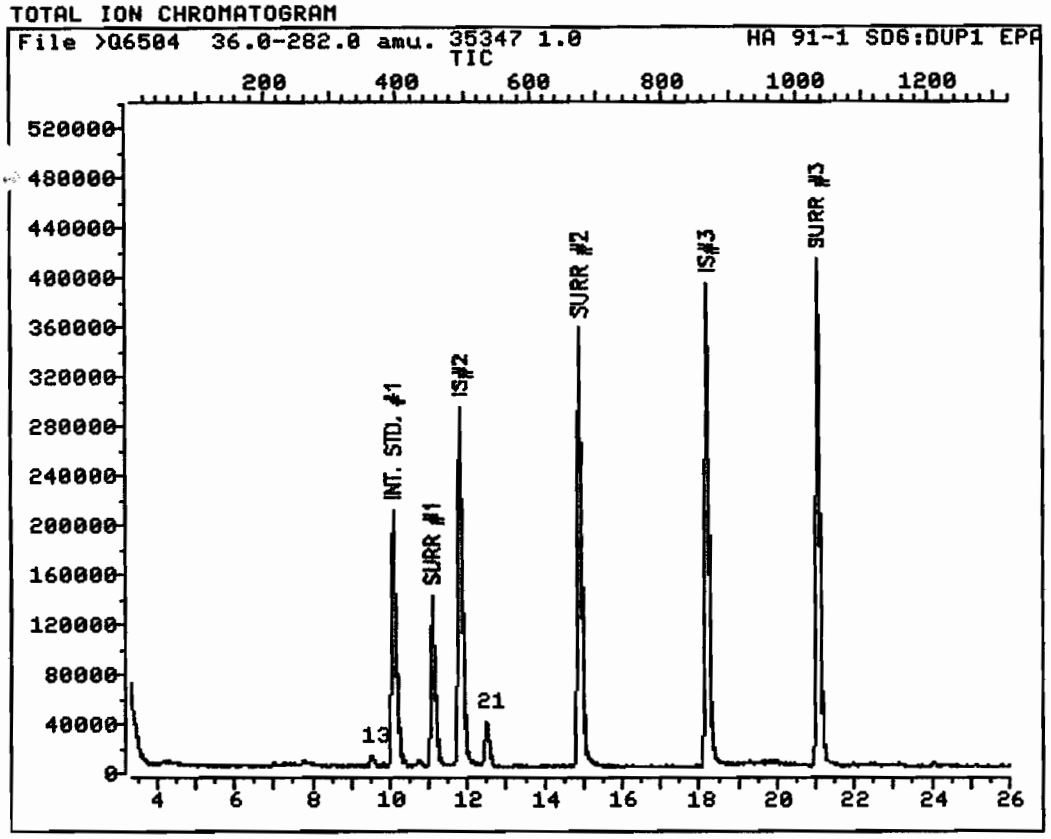
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 20:09
Output File: ^Q6504::D5 Injected at: 950829 04:55
Data File: >Q6504::D5 Dilution Factor: 1.00000
Name: 35347 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7873

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.08	128.0	211702	50.00	ppb	97
13)	cis-1,2-Dichloroethene	9.50	96.0	14903	2.15	ppb	92
16)	1,2-Dichloroethane-d4	11.08	65.0	343311	47.57	ppb	91
17)	*1,4-Difluorobenzene	11.80	114.0	889607	50.00	ppb	81
21)	Trichloroethene	12.49	130.0	49547	5.52	ppb	99
29)	*Chlorobenzene-d5	18.21	117.0	826403	50.00	ppb	95
31)	Toluene-d8	14.89	98.0	833794	48.64	ppb	87
41)	Bromofluorobenzene	21.04	95.0	548775	51.21	ppb	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM

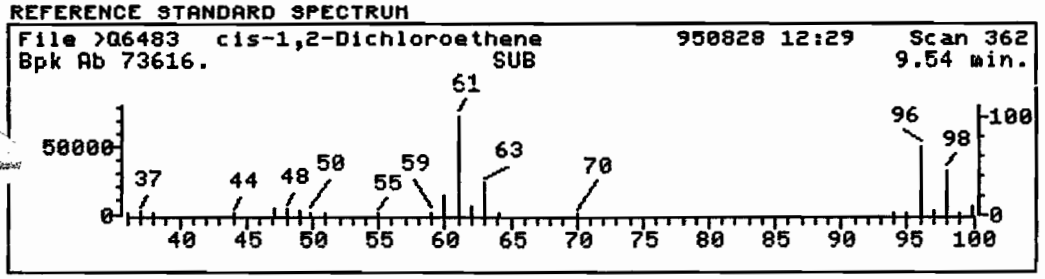


Data File: >Q6504::D5 Quant Output File: ^Q6504::D5
Name: 35347 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7873

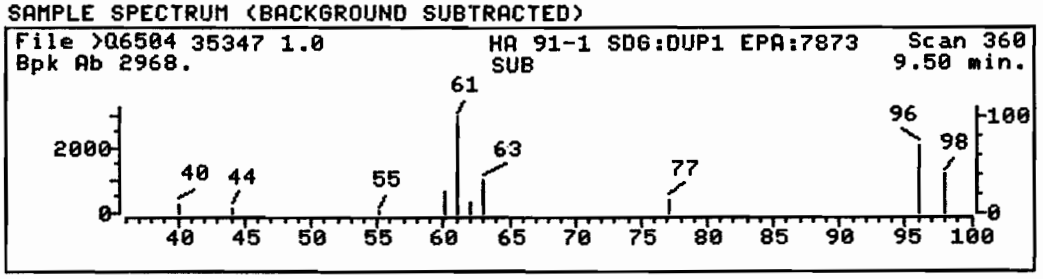
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 20:09
Injected at: 950829 04:55

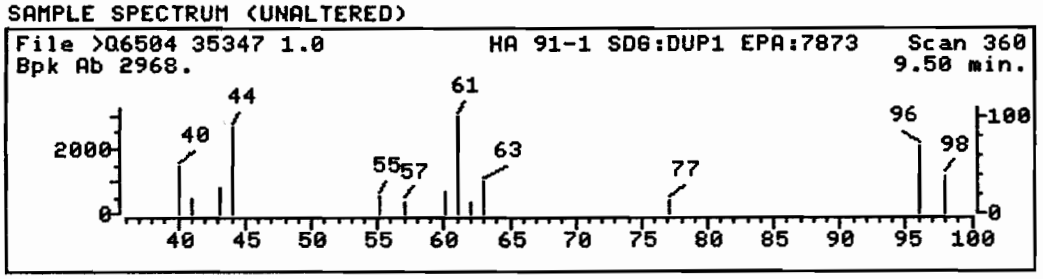
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



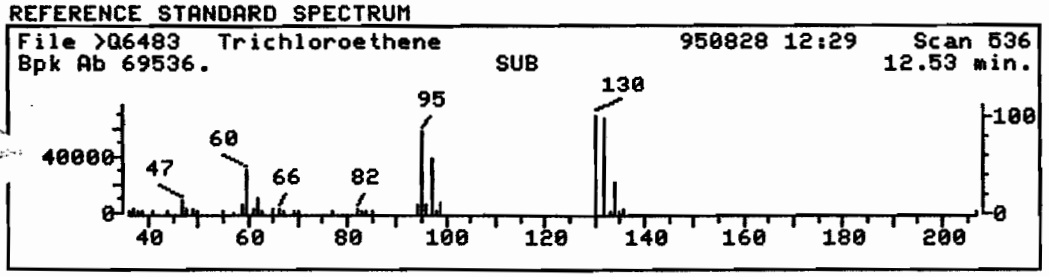
SAMPLE SPECTRUM (UNALTERED)



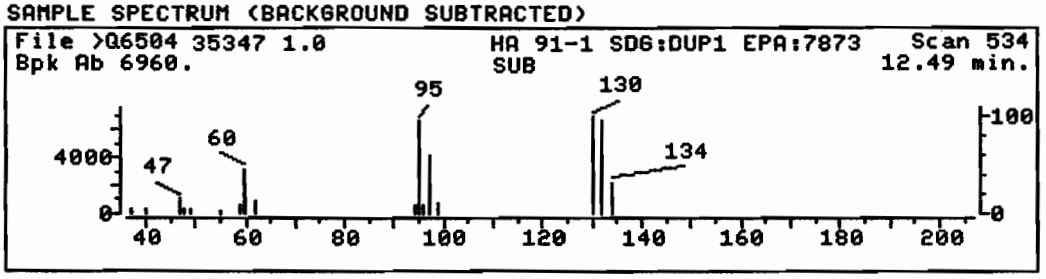
Data File: >Q6504::D5 Quant Output File: ^Q6504::D5
Name: 35347 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7873
Quant Time: 950828 20:09 Quant ID File: IDECLP::QT
Injected at: 950829 04:55 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 360
Retention Time: 9.50 min.
Quant Ion : 96.0
Area : 14903
Concentration : 2.15 ppb
q-value : 92

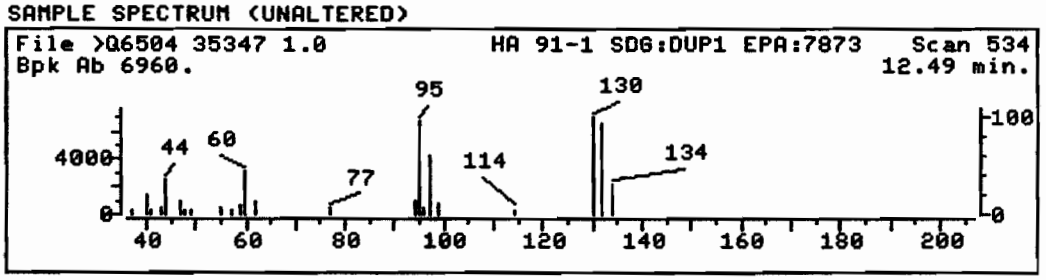
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6504::D5 Quant Output File: ^Q6504::D5
Name: 35347 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7873
Quant Time: 950828 20:09 Quant ID File: IDECLP::QT
Injected at: 950829 04:55 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 534
Retention Time: 12.49 min.
Quant Ion : 130.0
Area : 49547
Concentration : 5.52 ppb
q-value : 99

MS data file header from : >Q6504::D5

Sample: 35347 1.0 Operator: RODH 8/29/95 4:55
Misc : HA 91-1 SDG:DUP1 EPA:7873
[illegible]s. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 10 Equip ID: 1
[illegible]ethod file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

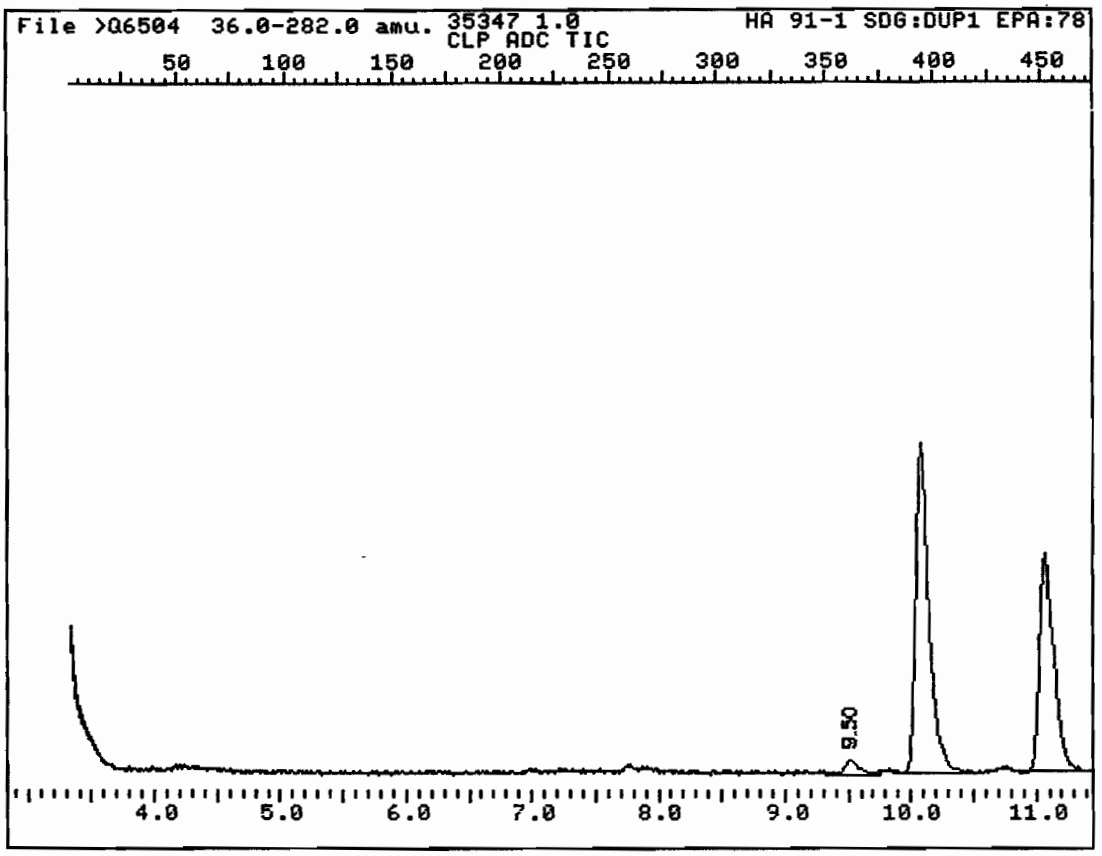
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1528331.	10.08	3.34 - 10.94
2	50.0	2163639.	11.80	10.94 - 15.01
3	50.0	2520742.	18.21	15.01 - 26.01

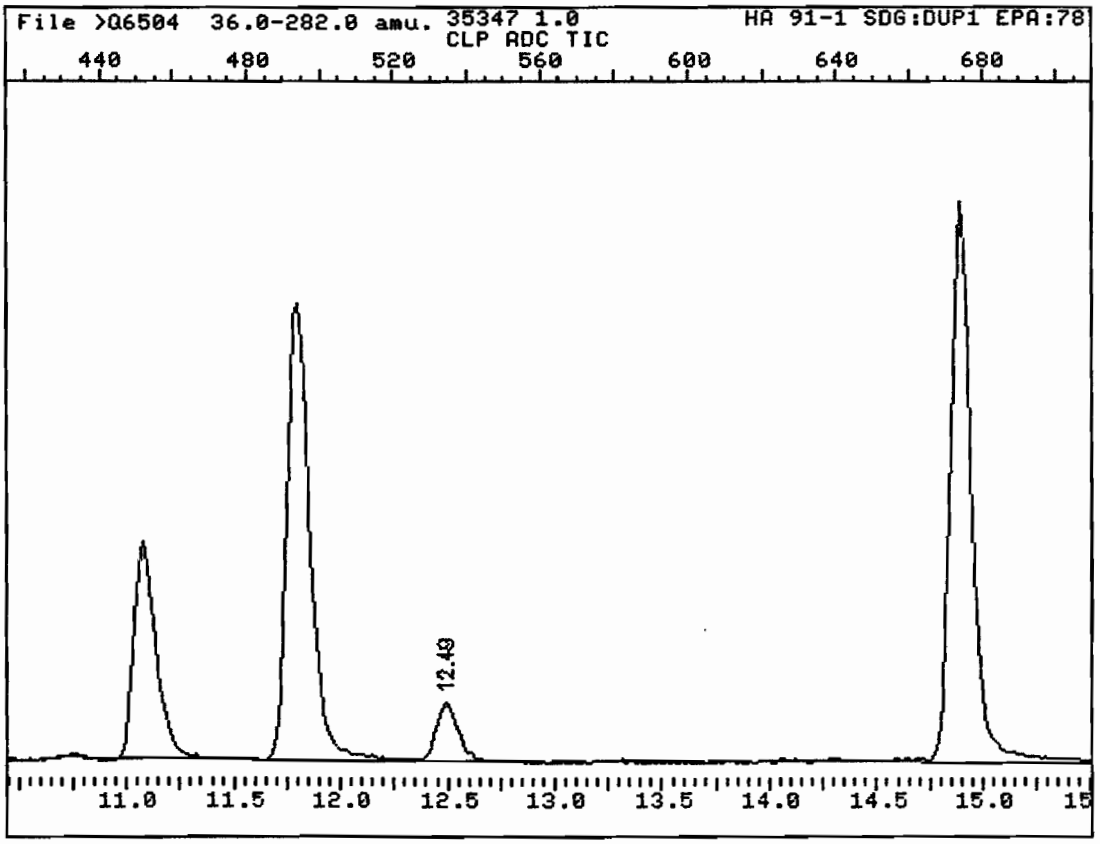
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

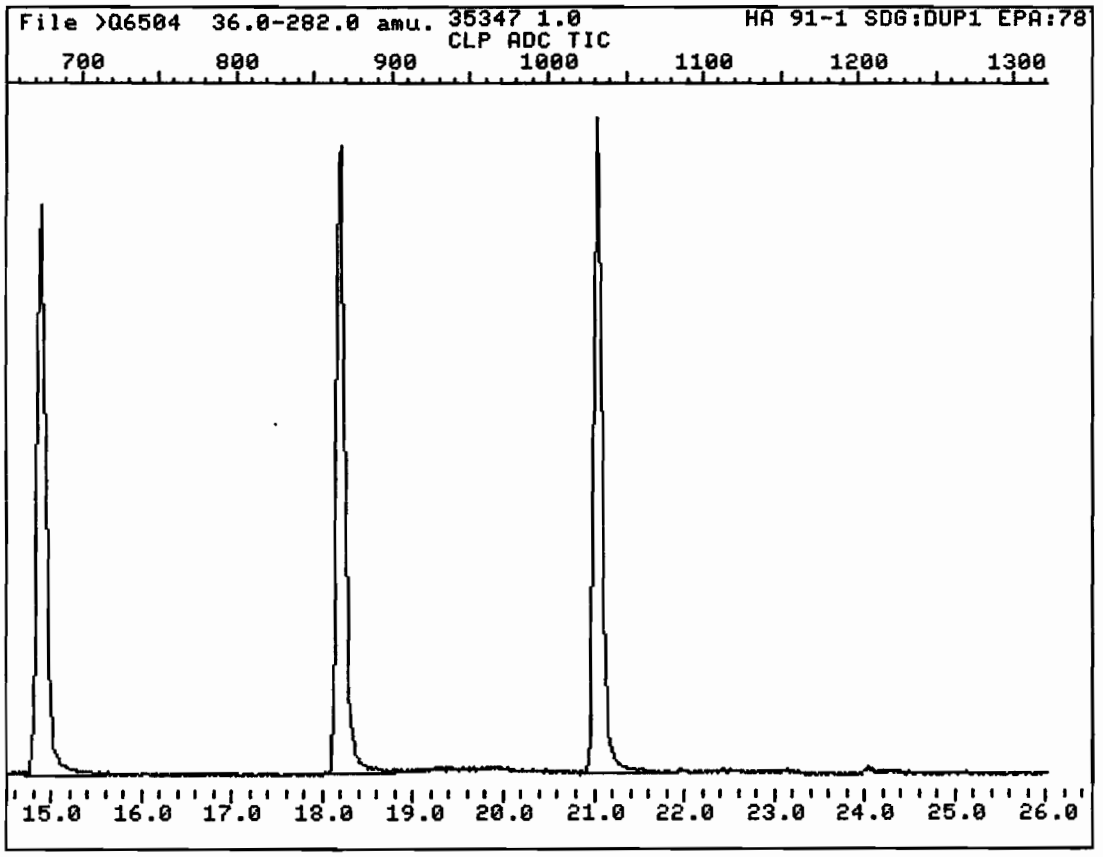
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:49 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 4:55



Instrument ID: 1 Analyzed on: 8/29/95 4:55

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7880

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35349

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6516

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	5.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	8.	J
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	6.	J
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00271

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7880

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35349

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6516

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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28.					
29.					
30.					

00272

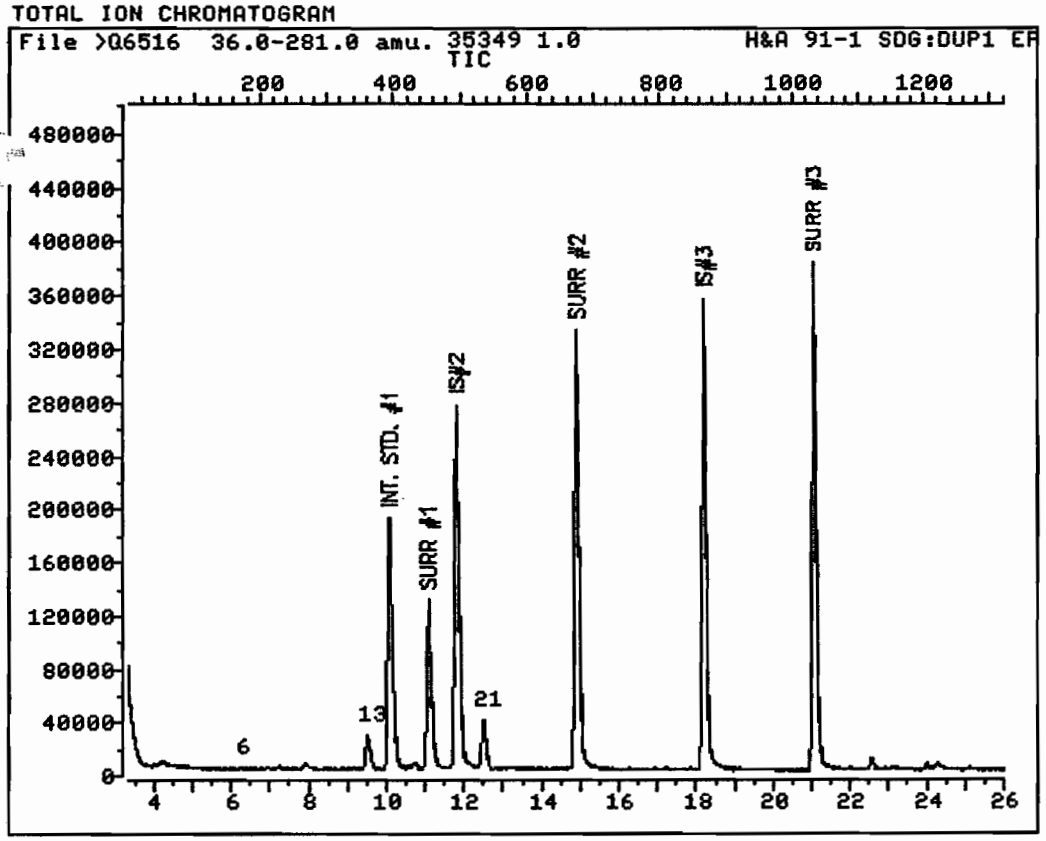
Operator ID: TOMT Quant Rev: 7 Quant Time: 950829 05:08
Output File: ^Q6516::D3 Injected at: 950829 15:12
Data File: >Q6516::D3 Dilution Factor: 1.00000
Line: 35349 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:7880

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.08	128.0	199061	50.00	ppb	97
6)	Acetone	6.24	43.0	14237	4.71	ppb	99
13)	cis-1,2-Dichloroethene	9.50	96.0	44799	7.58	ppb	84
16)	1,2-Dichloroethane-d4	11.08	65.0	327002	47.90	ppb	92
17)	*1,4-Difluorobenzene	11.80	114.0	847849	50.00	ppb	84
21)	Trichloroethene	12.51	130.0	49659	6.47	ppb	98
29)	*Chlorobenzene-d5	18.21	117.0	736815	50.00	ppb	97
31)	Toluene-d8	14.91	98.0	776524	51.17	ppb	88
41)	Bromofluorobenzene	21.04	95.0	502721	51.57	ppb	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM

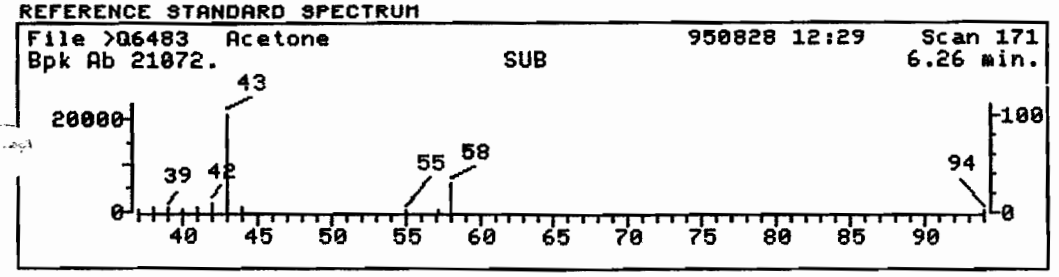


Data File: >Q6516::D3 Quant Output File: ^Q6516::D3
Name: 35349 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:7880

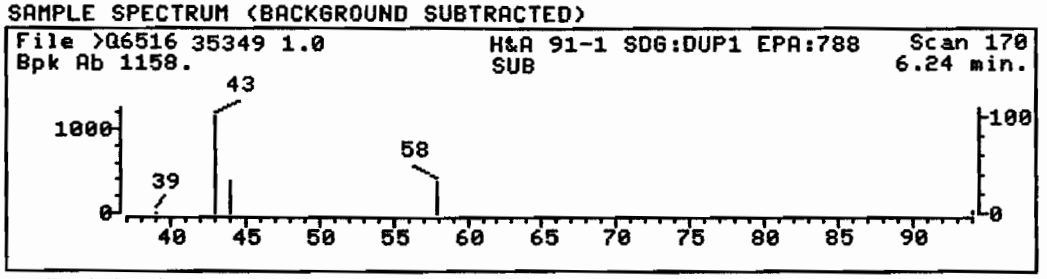
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: TOMT
Quant Time : 950829 05:08
Injected at: 950829 15:12

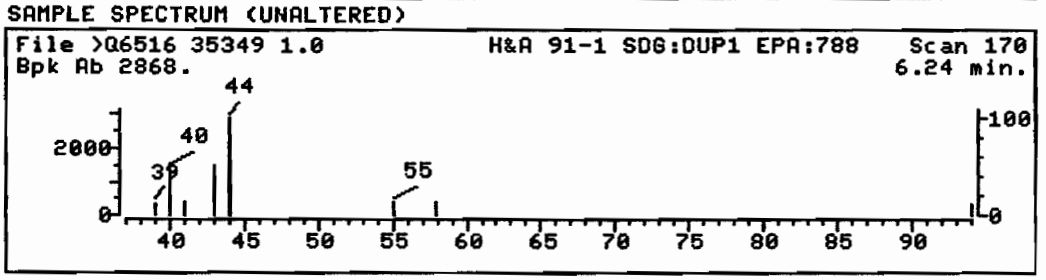
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



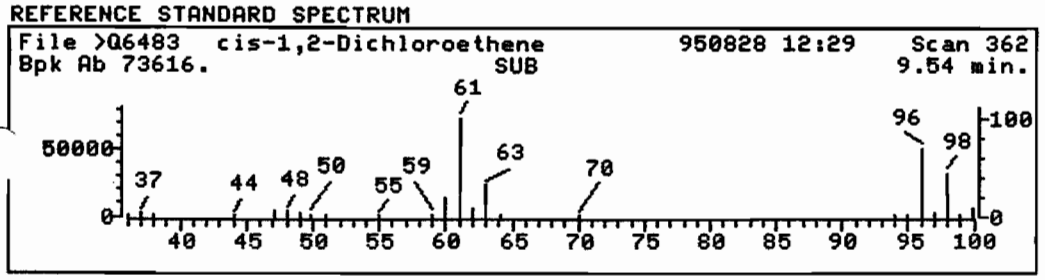
SAMPLE SPECTRUM (UNALTERED)



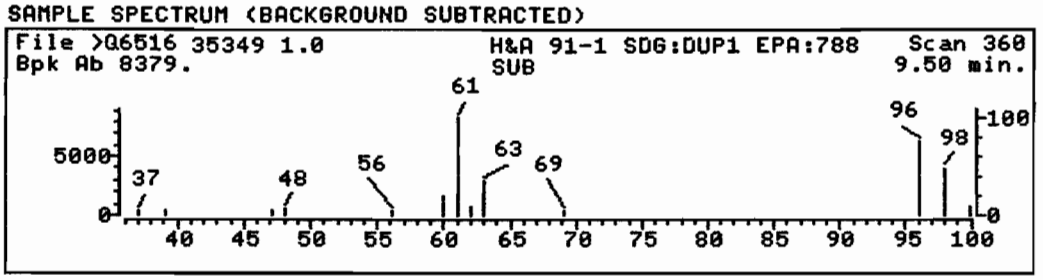
Data File: >Q6516::D3 Quant Output File: ^Q6516::D3
Name: 35349 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:7880
Quant Time: 950829 05:08 Quant ID File: IDECLP::QT
Injected at: 950829 15:12 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 6
Compound Name : Acetone
Scan Number : 170
Retention Time: 6.24 min.
Quant Ion : 43.0
Area : 14237
Concentration : 4.71 ppb
q-value : 99

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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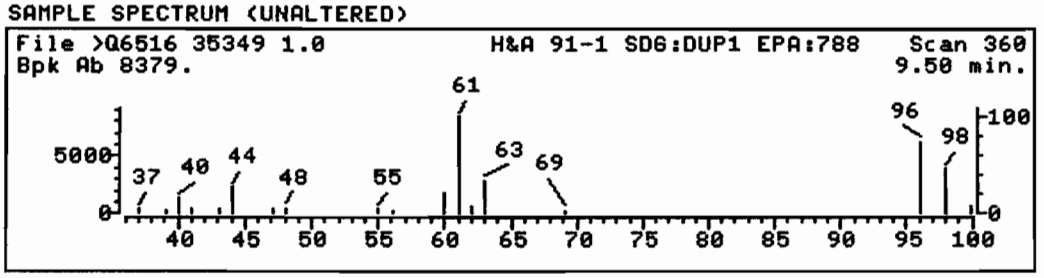
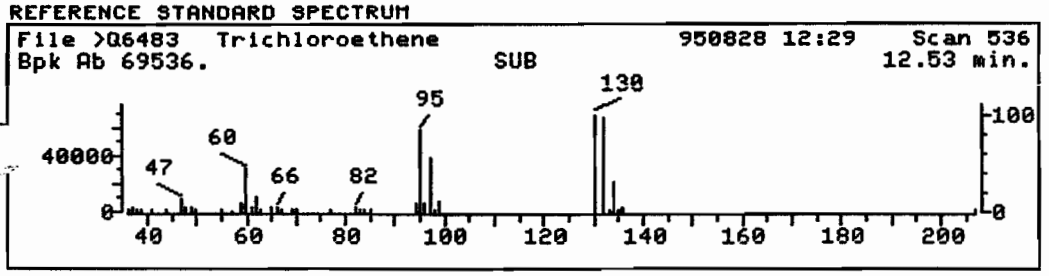


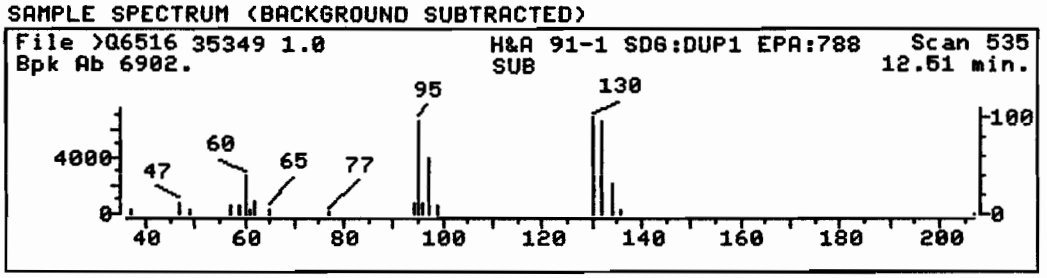
Data File: >Q6516::D3 Quant Output File: ^Q6516::D3
Name: 35349 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:7880
Quant Time: 950829 05:08 Quant ID File: IDECLP::QT
Injected at: 950829 15:12 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 360
Retention Time: 9.50 min.
Quant Ion : 96.0
Area : 44799
Concentration : 7.58 ppb
q-value : 84

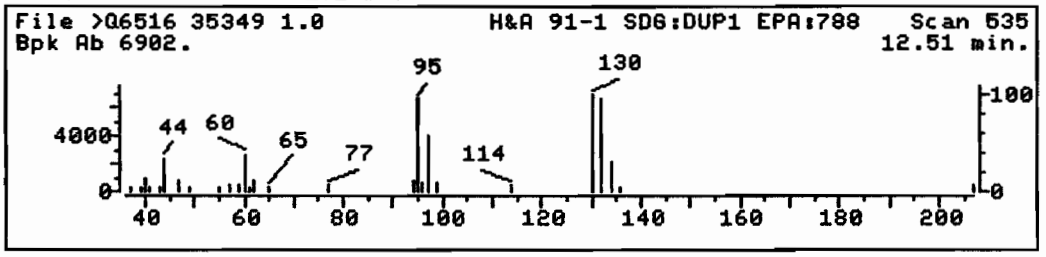
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6516::D3 Quant Output File: ^Q6516::D3
Name: 35349 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:7880
Quant Time: 950829 05:08 Quant ID File: IDECLP::QT
Injected at: 950829 15:12 Last Calibration: 950725 16:02
Last Qcal Time: 950829 08:42

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 535
Retention Time: 12.51 min.
Quant Ion : 130.0
Area : 49659
Concentration : 6.47 ppb
q-value : 98

MS data file header from : >Q6516::D3

Sample: 35349 1.0 Operator: TOMT 8/29/95 15:12
Misc : H&A 91-1 SDG:DUP1 EPA:7880
. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

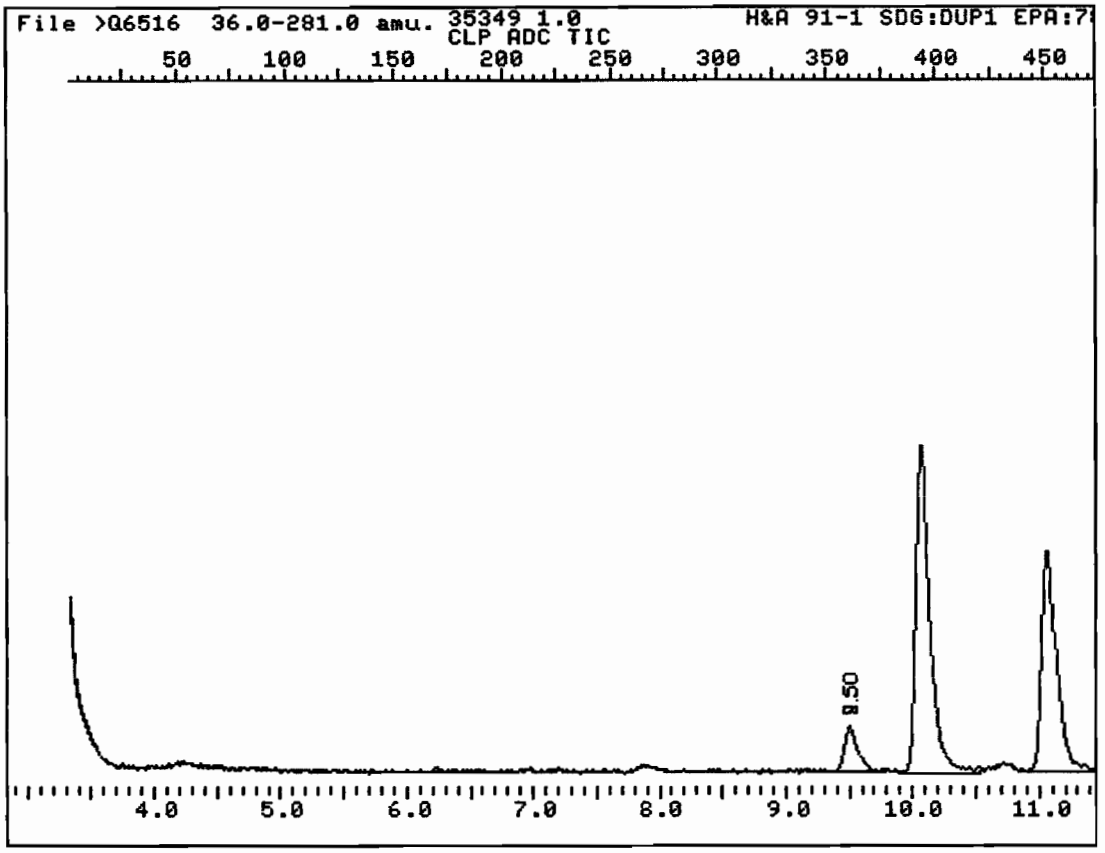
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1451725.	10.08	3.34 - 10.94
2	50.0	2013545.	11.80	10.94 - 15.01
3	50.0	2300232.	18.21	15.01 - 26.01

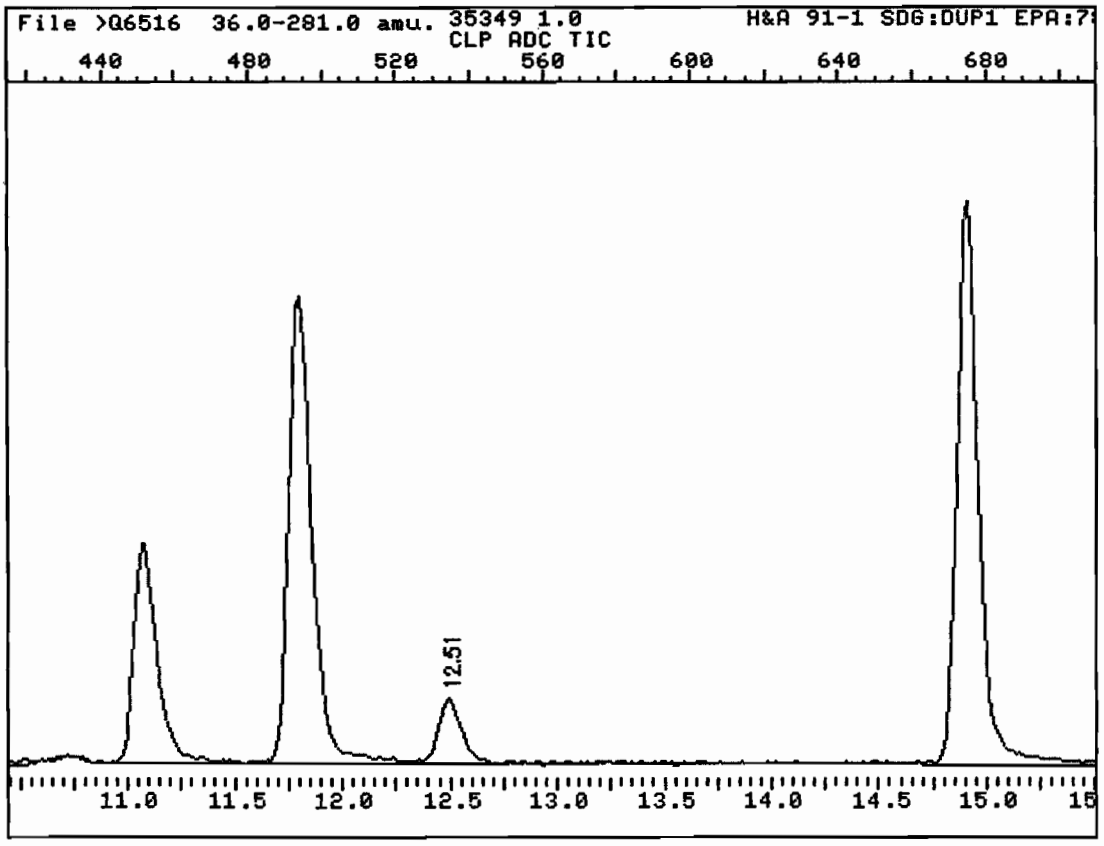
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

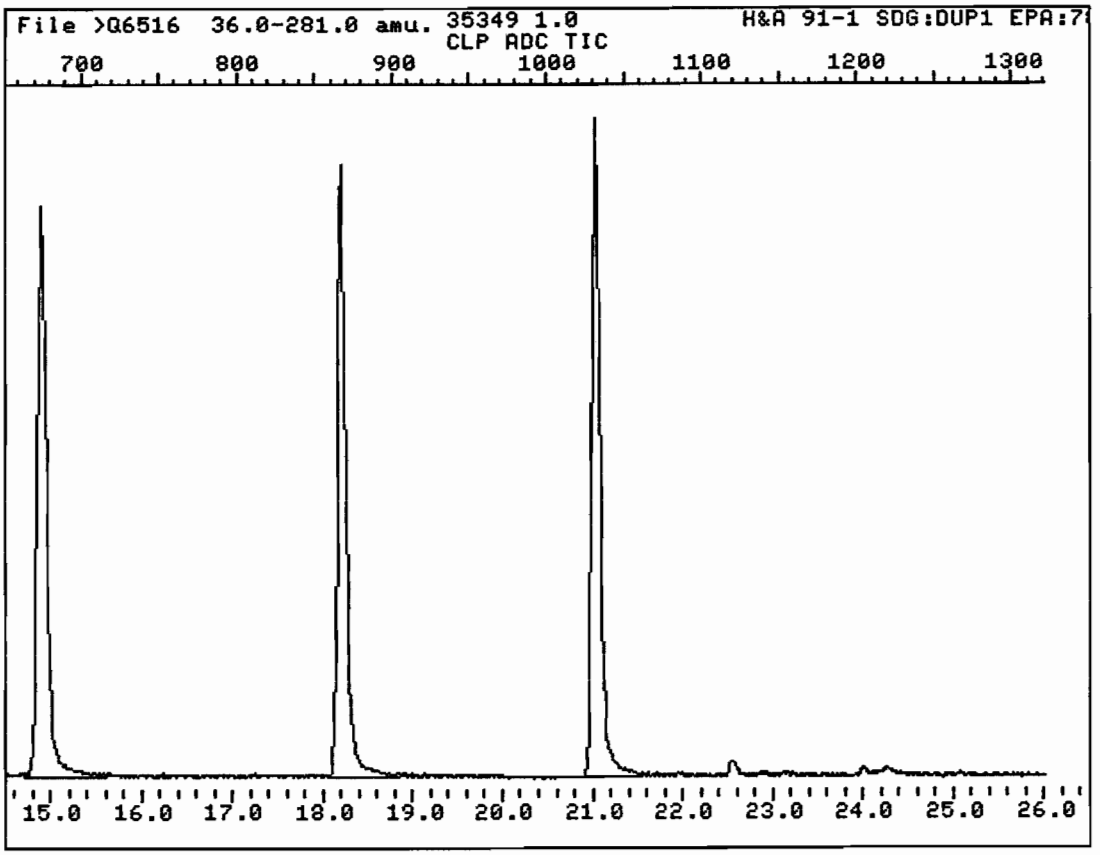
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

1:13 PM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/29/95 15:12



Instrument ID: 1 Analyzed on: 8/29/95 15:12

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7883SU

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35348

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6505

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	6.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	2.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	4.	J
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	19.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7883SU

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35348

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6505

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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30.					

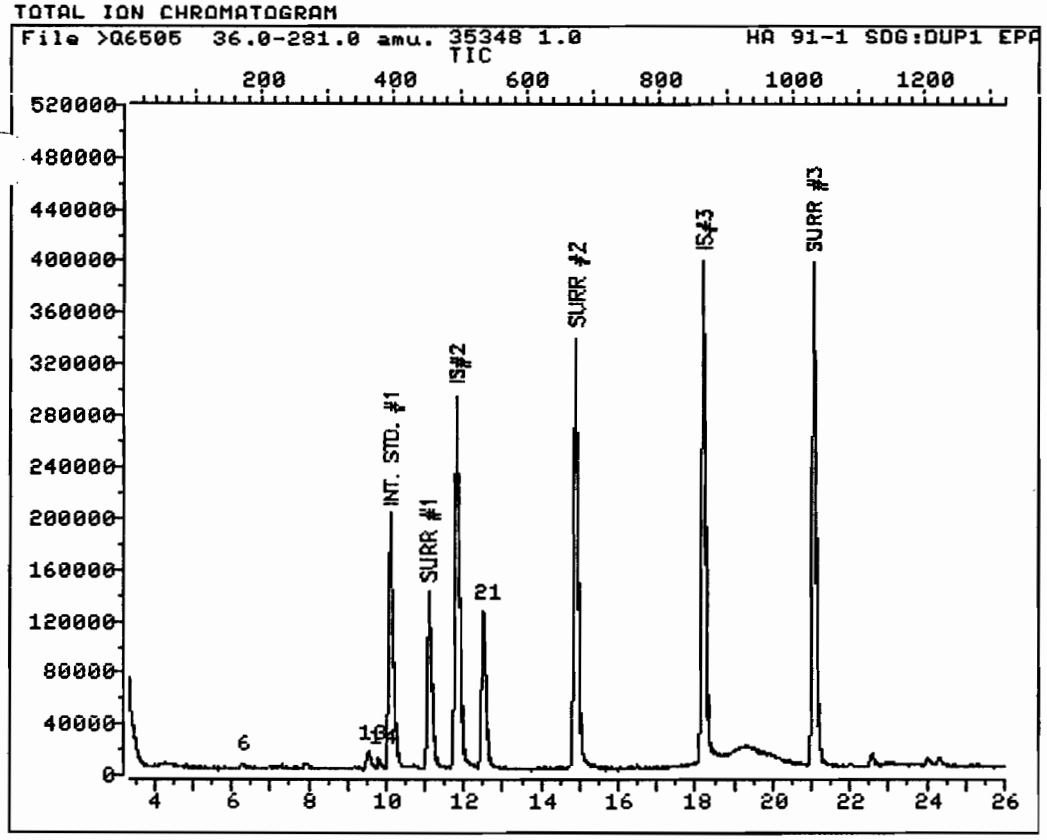
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 20:12
Output File: ^Q6505::D5 Injected at: 950829 05:29
Data File: >Q6505::D5 Dilution Factor: 1.00000
Name: 35348 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7883SUMP

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.10	128.0	213425	50.00	ppb	97
6)	Acetone	6.24	43.0	21025	6.14	ppb	98
13)	cis-1,2-Dichloroethene	9.50	96.0	26052	3.73	ppb	85
14)	Chloroform	9.81	83.0	31262	2.31	ppb	99
16)	1,2-Dichloroethane-d4	11.08	65.0	341982	47.01	ppb	92
17)	*1,4-Difluorobenzene	11.80	114.0	881725	50.00	ppb	83
21)	Trichloroethene	12.51	130.0	169663	19.08	ppb	97
29)	*Chlorobenzene-d5	18.21	117.0	813624	50.00	ppb	95
31)	Toluene-d8	14.89	98.0	801328	47.48	ppb	88
41)	Bromofluorobenzene	21.04	95.0	529639	50.20	ppb	88

* Compound is ISTD

TOTAL ION CHROMATOGRAM

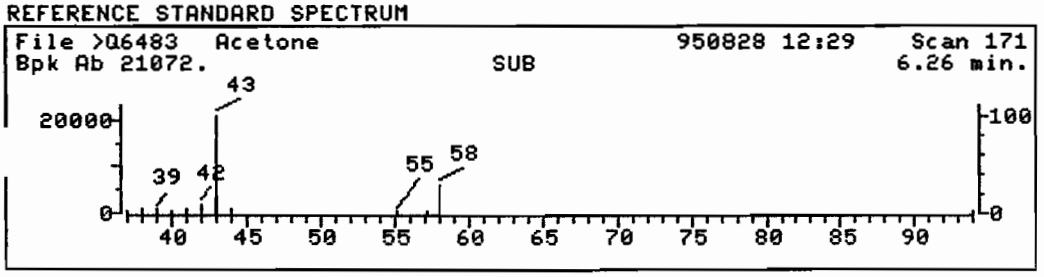


Data File: >Q6505::D5 Quant Output File: ^Q6505::D5
Name: 35348 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7883SUMP

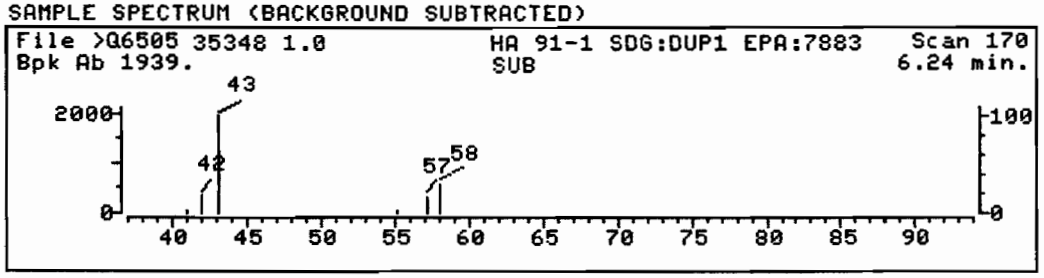
Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 20:12
Injected at: 950829 05:29

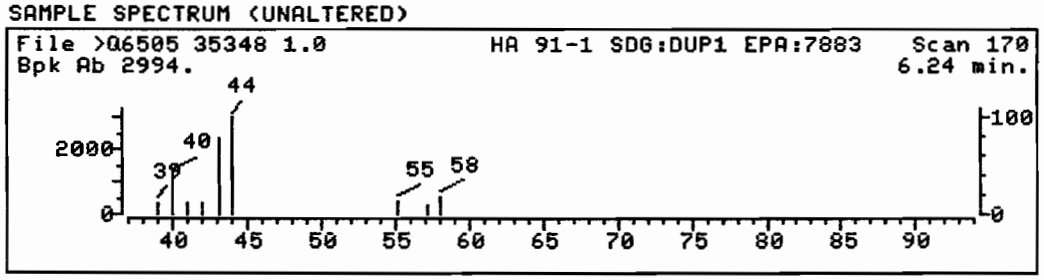
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



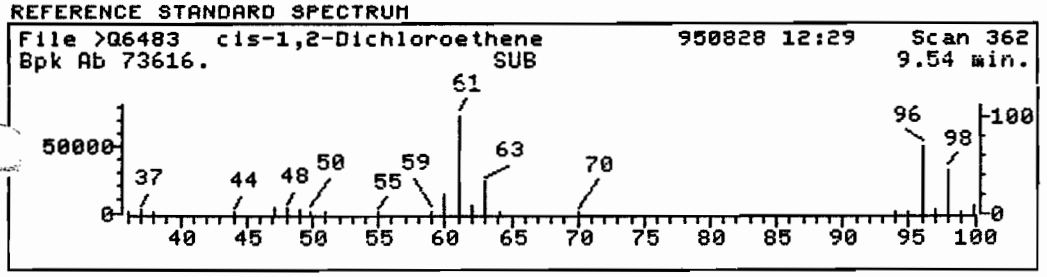
SAMPLE SPECTRUM (UNALTERED)



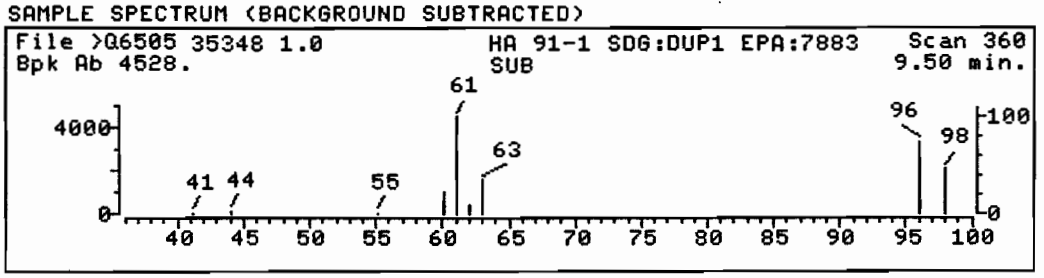
Data File: >Q6505::D5 Quant Output File: ^Q6505::D5
Name: 35348 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7883SUMP
Quant Time: 950828 20:12 Quant ID File: IDECLP::QT
Injected at: 950829 05:29 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 6
Compound Name : Acetone
Scan Number : 170
Retention Time: 6.24 min.
Quant Ion : 43.0
Area : 21025
Concentration : 6.14 ppb
q-value : 98

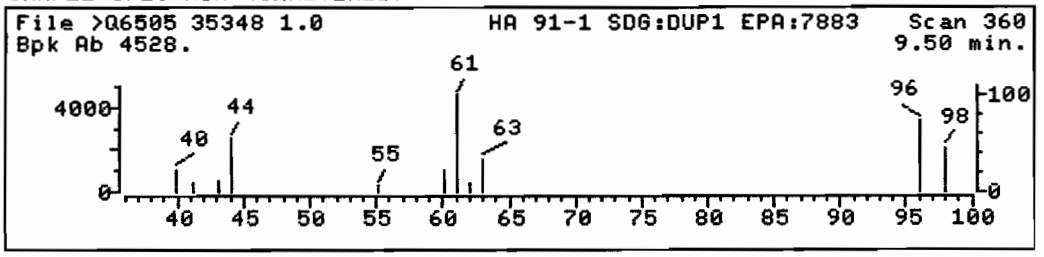
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



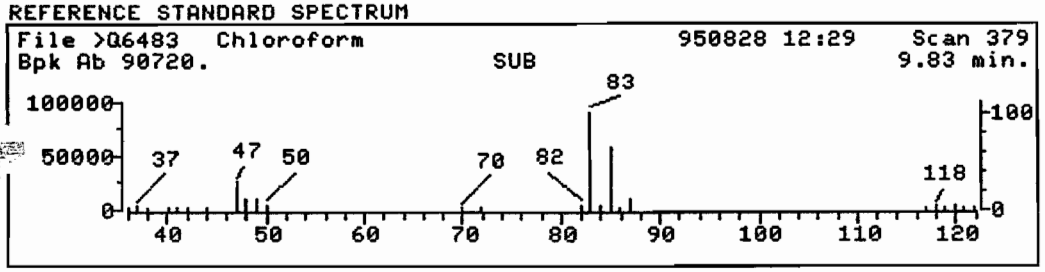
SAMPLE SPECTRUM (UNALTERED)



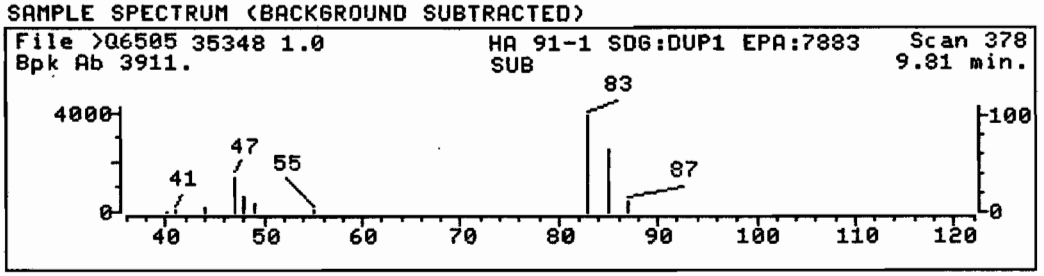
Data File: >Q6505::D5 Quant Output File: ^Q6505::D5
Name: 35348 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7883SUMP
Quant Time: 950828 20:12 Quant ID File: IDECLP::QT
Injected at: 950829 05:29 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 13
Compound Name : cis-1,2-Dichloroethene
Scan Number : 360
Retention Time: 9.50 min.
Quant Ion : 96.0
Area : 26052
Concentration : 3.73 ppb
q-value : 85

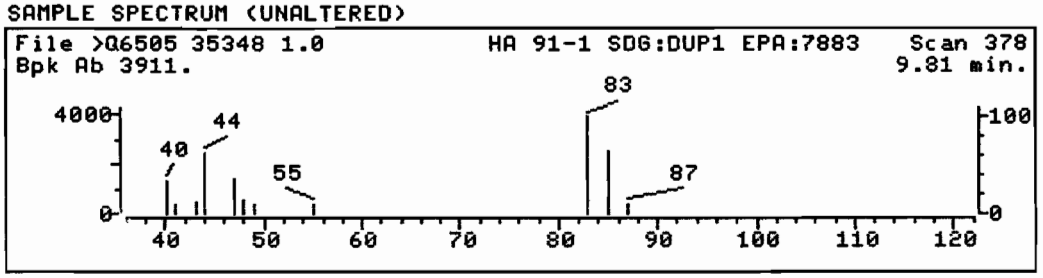
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



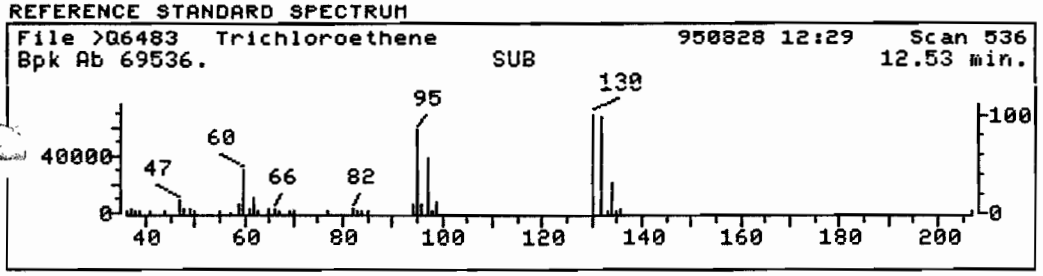
SAMPLE SPECTRUM (UNALTERED)



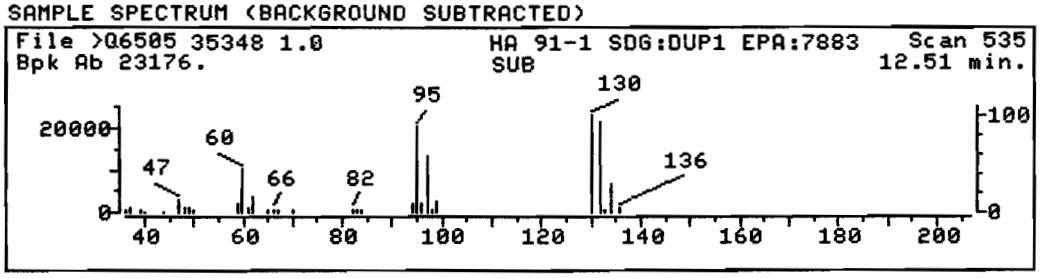
Data File: >Q6505::D5 Quant Output File: ^Q6505::D5
Name: 35348 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7883SUMP
Quant Time: 950828 20:12 Quant ID File: IDECLP::QT
Injected at: 950829 05:29 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 14
Compound Name : Chloroform
Scan Number : 378
Retention Time: 9.81 min.
Quant Ion : 83.0
Area : 31262
Concentration : 2.31 ppb
q-value : 99

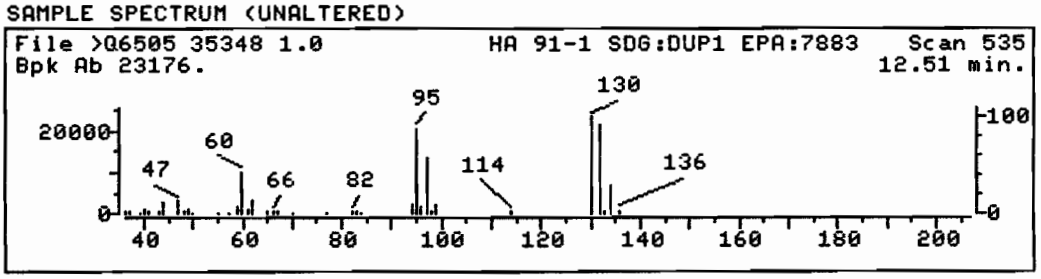
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >Q6505::D5 Quant Output File: ^Q6505::D5
Name: 35348 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:7883SUMP
Quant Time: 950828 20:12 Quant ID File: IDECLP::QT
Injected at: 950829 05:29 Last Calibration: 950725 16:02
Last Qcal Time: 950828 21:22

Compound No : 21
Compound Name : Trichloroethene
Scan Number : 535
Retention Time: 12.51 min.
Quant Ion : 130.0
Area : 169663
Concentration : 19.08 ppb
q-value : 97

MS data file header from : >Q6505::D5

Sample: 35348 1.0 Operator: RODH (DL) 9/1/95 8/29/95 5:29
Misc : HA 91-1 SDG:DUP1 EPA:~~MW5~~ 7883SUMP
Inst. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 11 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1511817.	10.10	3.34 - 10.95
2	50.0	2119384.	11.80	10.95 - 15.01
3	50.0	2531084.	18.21	15.01 - 26.01

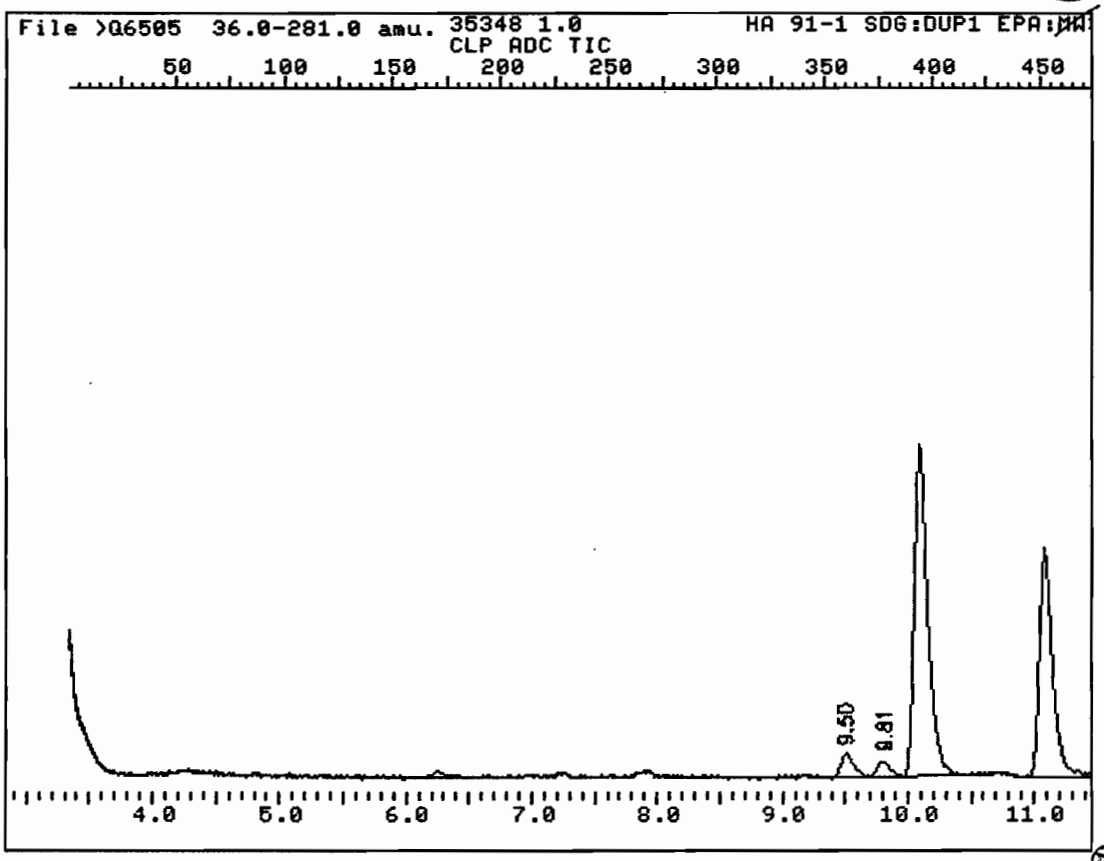
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

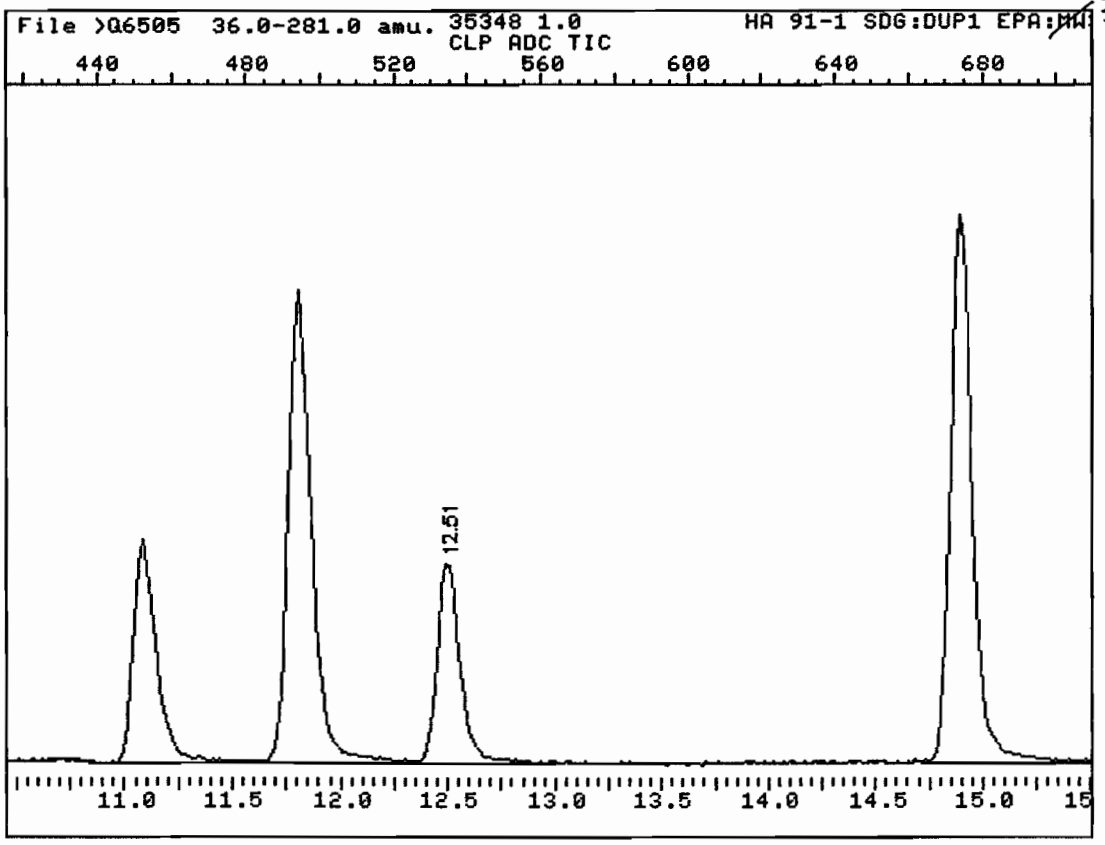
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

12:55 PM THU., 31 AUG., 1995

DL 9/1/95

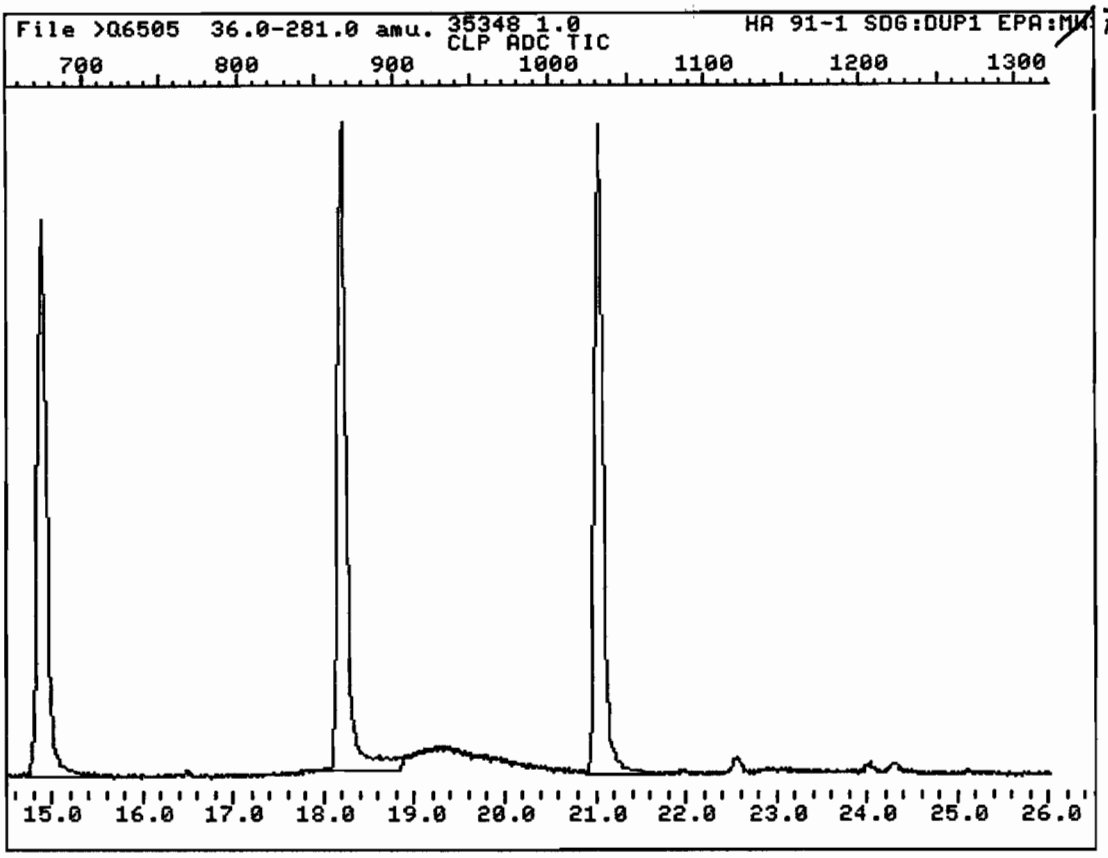


DL 9/1/95



Instrument ID: 1 Analyzed on: 8/29/95 5:29

DL 9/1/95



Instrument ID: 1 Analyzed on: 8/29/95 5:29

STANDARDS DATA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Instrument ID:MS#1 Calibration Date(s): 8/28/95 8/28/95

Heated Purge: (Y/N) N Calibration Times: 0855 1457

GC Column:RTX-502 ID: 0.53 (mm)

LAB FILE ID: RRF10 =AZ459 RRF20 =AZ460
RRF50 =AZ461 RRF100=AZ462 RRF200=AZ466

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	%RSD
Chloromethane	0.560	0.540	0.566	0.532	0.492	0.538	5.4
* Bromomethane	1.315	1.421	1.342	1.356	1.332	1.353	3.0 *
* Vinyl chloride	1.055	0.911	0.737	0.774	0.621	0.820	20.4 *
Chloroethane	0.774	0.846	0.803	0.829	0.830	0.816	3.5
Methylene chloride	1.389	1.556	1.488	1.510	1.535	1.496	4.3
Acetone	0.584	0.670	0.677	0.620	0.634	0.637	6.0
Carbon Disulfide	3.249	3.539	3.478	3.604	3.770	3.528	5.4
* 1,1-Dichloroethene	1.290	1.378	1.332	1.378	1.419	1.359	3.6 *
* 1,1-Dichloroethane	2.847	3.035	3.116	3.141	3.306	3.089	5.4 *
trans-1,2-Dichloroethene	1.471	1.547	1.511	1.520	1.592	1.528	2.9
* Chloroform	2.750	2.952	3.080	3.116	3.251	3.030	6.2 *
* 1,2-Dichloroethane	1.628	1.758	1.857	1.869	1.956	1.814	6.9 *
2-Butanone	0.604	0.637	0.701	0.604	0.652	0.640	6.3
cis-1,2-Dichloroethene	1.471	1.547	1.511	1.520	1.592	1.528	2.9
* 1,1,1-Trichloroethane	0.472	0.500	0.538	0.552	0.576	0.528	7.9 *
* Carbon tetrachloride	0.421	0.444	0.477	0.496	0.527	0.473	8.8 *
* Bromodichloromethane	0.561	0.608	0.649	0.670	0.688	0.635	8.0 *
1,2-Dichloropropane	0.426	0.457	0.463	0.475	0.488	0.462	5.0
* cis-1,3-Dichloropropene	0.516	0.556	0.580	0.599	0.620	0.574	7.0 *
* Trichloroethene	0.381	0.396	0.403	0.406	0.409	0.399	2.8 *
* Dibromochloromethane	0.430	0.488	0.519	0.521	0.544	0.500	8.8 *
* 1,1,2-Trichloroethane	0.280	0.315	0.322	0.316	0.321	0.311	5.6 *
* Benzene	0.864	0.914	0.948	0.954	0.987	0.933	5.0 *
* trans-1,3-Dichloropropene	0.361	0.395	0.412	0.420	0.444	0.406	7.6 *
* Bromoform	0.306	0.343	0.379	0.362	0.371	0.352	8.3 *
4-Methyl-2-Pentanone	0.378	0.434	0.476	0.453	0.463	0.441	8.7
2-Hexanone	0.251	0.304	0.327	0.316	0.316	0.303	9.9
* Tetrachloroethene	0.409	0.424	0.433	0.441	0.453	0.432	3.9 *
* 1,1,2,2-Tetrachloroethane	0.498	0.538	0.575	0.544	0.273	0.486	25.1 *
* Toluene	0.694	0.716	0.715	0.746	0.753	0.725	3.4 *
* Chlorobenzene	0.834	0.879	0.889	0.909	0.938	0.890	4.3 *
* Ethylbenzene	1.433	1.492	1.558	1.602	1.615	1.540	5.0 *
* Styrene	0.700	0.748	0.793	0.816	0.832	0.778	6.9 *
* (m+p)Xylene	1.174	1.236	1.273	1.286	1.303	1.254	4.1 *
* o-Xylene	1.174	1.236	1.273	1.286	1.303	1.254	4.1 *
Toluene-d8	1.258	1.243	1.186	1.219	1.190	1.219	2.6
* Bromofluorobenzene	0.817	0.799	0.799	0.795	0.759	0.794	2.7 *
1,2-Dichloroethane-d4	1.643	1.705	1.707	1.712	1.729	1.699	1.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ459.D Vial: 1
Acq On : ~~26 Aug 95~~ 8:55 am 28 Aug 95 Operator: TOMT
Sample : 10PPB Inst : 5970 - In
Misc : 91-1 ASP (DL) 9/5/95 Multiplr: 1.00
Quant Time: Aug 26 14:12 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	8.96	128	457778	50.00	ug/l		0.02
17) 1,4-Difluorobenzene	11.75	114	1890979	50.00	ug/l		0.00
29) Chlorobenzene-d5	18.59	117	1437013	50.00	ug/l		-0.02
System Monitoring Compounds							%Recovery
15) 1,2-Dichloroethane-d4	10.04	65	150438	9.64	ug/l		19.27%
31) Toluene-d8	15.49	98	361565	10.12	ug/l		20.23%
41) Bromofluorobenzene	21.34	95	234897	10.23	ug/l		20.45%
Target Compounds							Qvalue
2) Chloromethane	3.23	50	51282	15.55	ug/l		87
3) Vinyl chloride	3.50	62	96617	11.59	ug/l		89
4) Chloroethane	4.14	64	70849	9.31	ug/l		99
5) Bromomethane	3.95	94	120383	9.25	ug/l		98
6) Acetone	4.78	43	53487	8.82	ug/l		89
7) 1,1-Dichloroethene	5.89	96	118107	9.36	ug/l		97
8) Methylene chloride	6.01	84	127136	8.92	ug/l		99
9) Carbon disulfide	6.46	76	297450	9.18	ug/l		100
10) trans-1,2-Dichloroethene	7.31	96	126943	9.45	ug/l		94
11) 1,1-Dichloroethane	7.56	63	260666	9.38	ug/l		95
12) 2-Butanone (MEK)	8.13	43	55298	9.48	ug/l		99
13) cis-1,2-Dichloroethene	8.72	96	142461	9.59	ug/l		98
14) Chloroform	9.14	83	251749	9.31	ug/l		95
16) 1,2-Dichloroethane	10.19	62	149064	9.24	ug/l		98
18) 1,1,1-Trichloroethane	10.59	97	178596	9.44	ug/l		97
19) Carbon tetrachloride	11.47	117	159065	9.52	ug/l		98
20) Benzene	11.25	78	326946	9.47	ug/l		97
21) Trichloroethene	12.82	130	144022	9.63	ug/l		98
22) 1,2-Dichloropropane	12.44	63	161193	9.33	ug/l		98
23) Bromodichloromethane	12.73	83	212171	9.22	ug/l		88
24) cis-1,3-Dichloropropene	14.10	75	195336	9.25	ug/l		98
25) trans-1,3-Dichloropropene	14.92	75	136348	9.16	ug/l		98
26) 1,1,2-Trichloroethane	15.19	97	105881	8.88	ug/l		96
27) Dibromochloromethane	16.32	129	162531	8.81	ug/l		99
28) Bromoform	19.77	173	115847	8.93	ug/l		99
30) 4-Methyl-2-pentanone (MIB	14.18	43	108613	8.70	ug/l		95
32) Toluene	15.65	92	199342	9.68	ug/l	#	100
33) 2-Hexanone	16.07	43	72029	8.06	ug/l		92
34) Tetrachloroethene	17.53	164	117524	9.63	ug/l		89
35) Chlorobenzene	18.66	112	239673	9.46	ug/l		99
36) Ethylbenzene	19.32	91	411984	9.61	ug/l		99
37) (m+p)Xylene	19.64	91	607395	8.56	ug/l		96
38) o-Xylene	20.48	91	337274	9.50	ug/l		99
39) Styrene	20.28	104	201292	9.37	ug/l		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AZ459.D Vial: 1
Acq On : ~~26 Aug 95~~ 8:55 am 28 Aug 95 Operator: TOMT
Sample : 10PPB (DL) 9/5/95 Inst : 5970 - In
Misc : 91-1 ASP Multiplr: 1.00
Quant Time: Aug 26 14:12 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via, : Single Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	20.47	83	143177	9.26 ug/l	96

00295

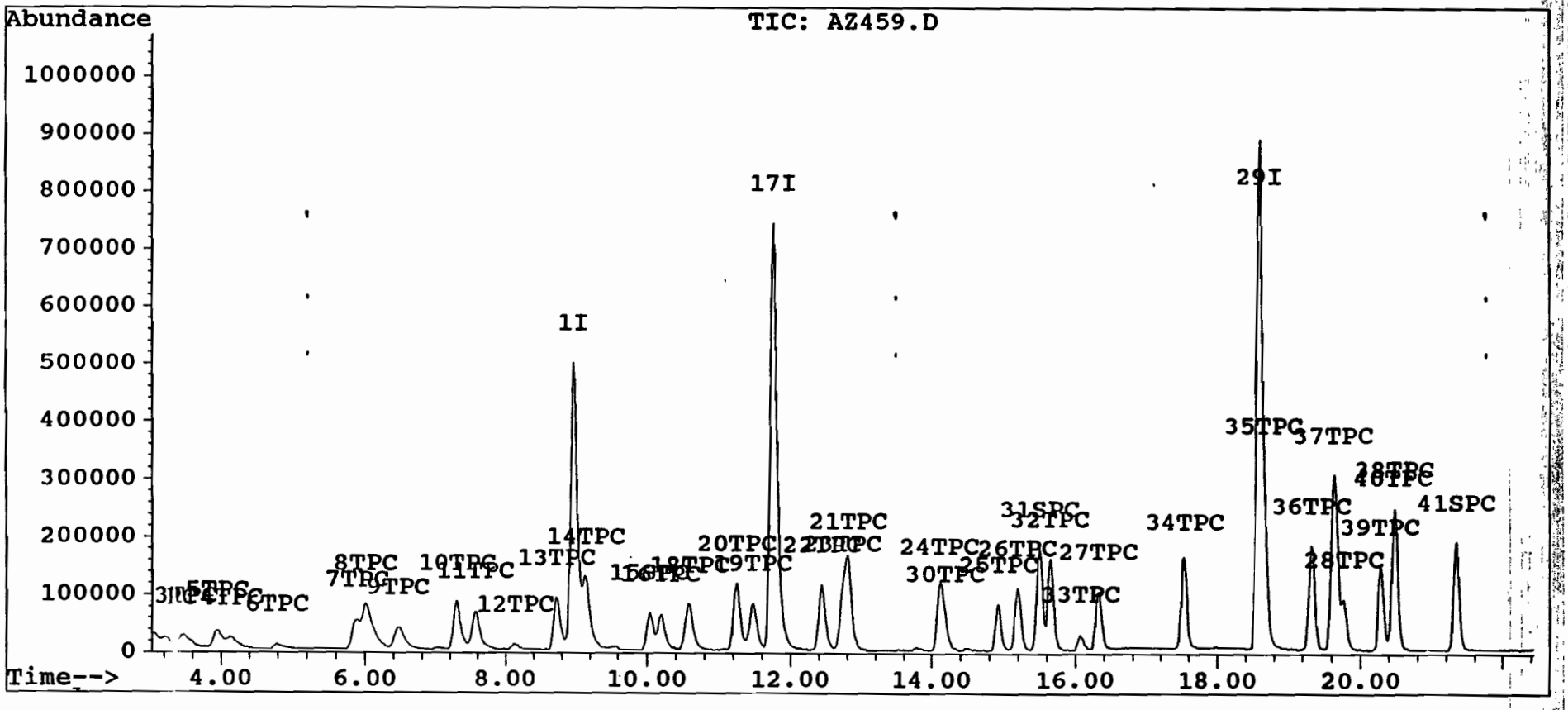
(#) = qualifier out of range (m) = manual integration

Quantita on Report

Data File : C:\HPCHEM\1\DATA\AZ459.D
Acq On : ~~26 Aug 95~~ 8:55 am 28 Aug 95
Sample : 10PPB (DL) 9/5/95
Misc : 91-1 ASP
Quant Time: Aug 26 14:12 1995

Vial: 1
Operator: TOMT
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Single Level Calibration



00296

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ460.D Vial: 1
Acq On : ~~26 Aug 95~~ 9:35 am 28Aug 95 Operator: TOMT
Sample : 20PPB (DL) 9/5/95 Inst : 5970 - In
Misc : 91-1 ASP Multiplr: 1.00
Quant Time: Aug 26 14:20 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	8.94	128	417500	50.00	ug/l		0.00
17) 1,4-Difluorobenzene	11.75	114	1765635	50.00	ug/l		0.00
29) Chlorobenzene-d5	18.61	117	1377766	50.00	ug/l		0.00
System Monitoring Compounds							**%Recovery**
15) 1,2-Dichloroethane-d4	10.02	65	284794	20.37	ug/l		40.74%
31) Toluene-d8	15.51	98	685077	19.88	ug/l		39.75%
41) Bromofluorobenzene	21.41	95	440406	19.77	ug/l		39.55%
Target Compounds							**Qvalue**
2) Chloromethane	3.19	50	90160	23.46	ug/l		96
3) Vinyl chloride	3.45	62	152072	18.53	ug/l		100
4) Chloroethane	4.10	64	141244	21.08	ug/l		99
5) Bromomethane	3.90	94	237333	20.78	ug/l		94
6) Acetone	4.74	43	111878	21.50	ug/l		97
7) 1,1-Dichloroethene	5.86	96	230145	20.66	ug/l		95
8) Methylene chloride	5.99	84	259856	21.14	ug/l		90
9) Carbon disulfide	6.43	76	591051	20.86	ug/l		99
10) trans-1,2-Dichloroethene	7.25	96	244684	20.54	ug/l		90
11) 1,1-Dichloroethane	7.52	63	506839	20.64	ug/l		96
12) 2-Butanone (MEK)	8.08	43	106367	20.53	ug/l		98
13) cis-1,2-Dichloroethene	8.70	96	271871	20.48	ug/l		99
14) Chloroform	9.13	83	493010	20.71	ug/l		99
16) 1,2-Dichloroethane	10.17	62	293532	20.73	ug/l		99
18) 1,1,1-Trichloroethane	10.56	97	352997	20.55	ug/l		99
19) Carbon tetrachloride	11.47	117	313507	20.59	ug/l		100
20) Benzene	11.23	78	645845	20.58	ug/l		99
21) Trichloroethene	12.82	130	279459	20.39	ug/l		99
22) 1,2-Dichloropropane	12.44	63	322779	20.70	ug/l		98
23) Bromodichloromethane	12.75	83	429549	20.81	ug/l		100
24) cis-1,3-Dichloropropene	14.13	75	392450	20.68	ug/l		100
25) trans-1,3-Dichloropropene	14.94	75	278647	20.92	ug/l		100
26) 1,1,2-Trichloroethane	15.21	97	222650	21.19	ug/l		96
27) Dibromochloromethane	16.35	129	344561	21.27	ug/l		96
28) Bromoform	19.82	173	242153	21.13	ug/l		94
30) 4-Methyl-2-pentanone (MIB	14.18	43	239295	21.39	ug/l		98
32) Toluene	15.68	92	394862	20.32	ug/l	#	100
33) 2-Hexanone	16.08	43	167510	21.65	ug/l		100
34) Tetrachloroethene	17.55	164	233922	20.37	ug/l		99
35) Chlorobenzene	18.70	112	484246	20.48	ug/l		98
36) Ethylbenzene	19.35	91	822432	20.40	ug/l		99
37) (m+p)Xylene	19.69	91	1361306	21.56	ug/l		98
38) o-Xylene	20.55	91	681106	20.52	ug/l		99
39) Styrene	20.35	104	412060	20.65	ug/l		97

00297

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AZ460.D Vial: 1
Acq On : ~~26 Aug 95~~ 9:35 am 28Aug 95 Operator: TOMT
Sample : 20PPB Inst : 5970 - In
Misc : 91-1 ASP (DL) 9/5/95 Multiplr: 1.00
Quant Time: Aug 26 14:20 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via. : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	20.52	83	296588	20.77 ug/l	96

00298

(#) = qualifier out of range (m) = manual integration

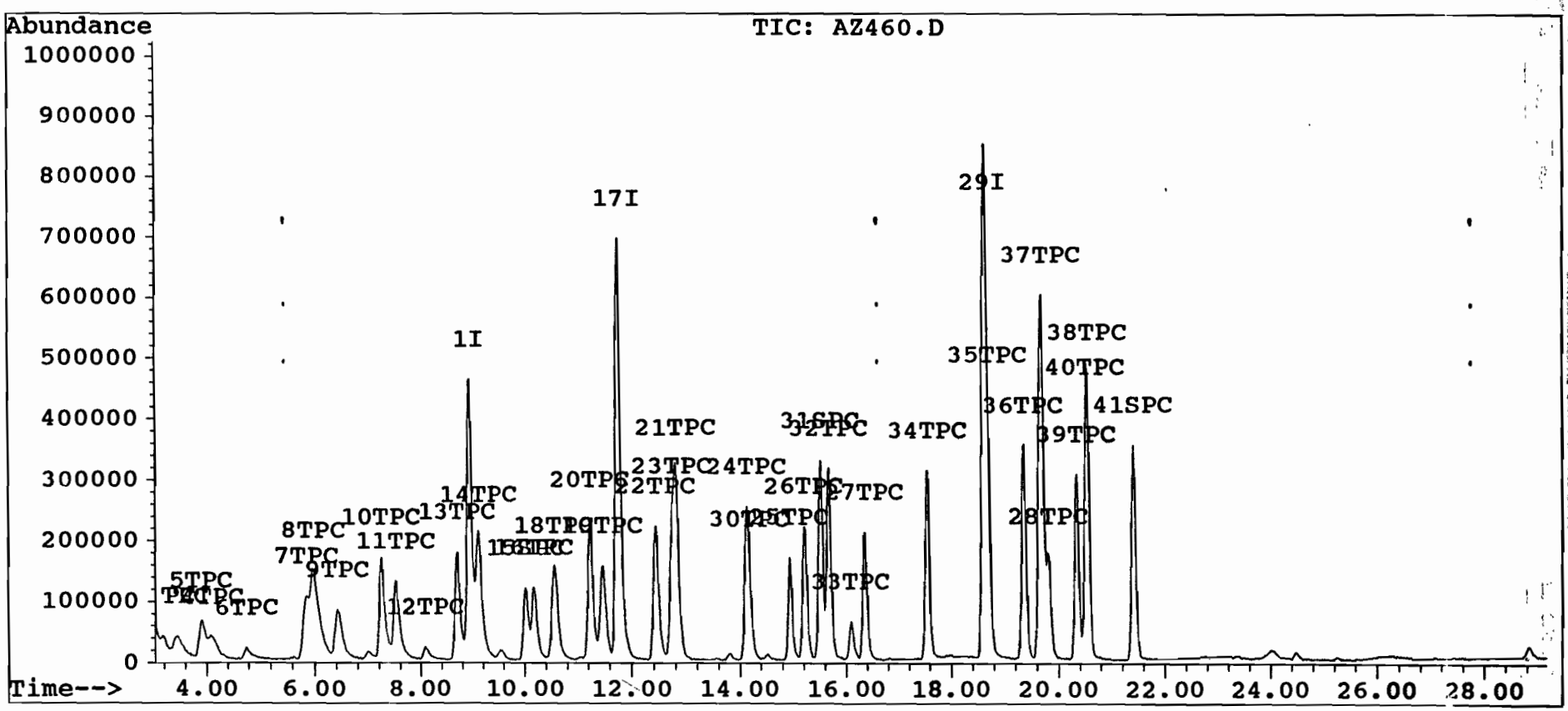
Quantita on Report

Data File : C:\HPCHEM\1\DATA\AZ460.D
Acq On : ~~26 Aug 95~~ 9:35 am 28 Aug 95
Sample : 20PPB
Misc : 91-1 ASP
Quant Time: Aug 26 14:20 1995

Vial: 1
Operator: TOMT
Inst : 5970 - In
Multiplr: 1.00

DL 9/5/95

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration



00299

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ461.D Vial: 1
Acq On : ~~26 Aug 95~~ 10:27 am 28 Aug 95 Operator: TOMT
Sample : 50PPB (PL) 9/5/95 Inst : 5970 - In
Misc : 91-1 ASP Multiplr: 1.00
Quant Time: Aug 26 14:25 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	8.94	128	425395	50.00	ug/l		0.00
17) 1,4-Difluorobenzene	11.70	114	1752559	50.00	ug/l		-0.05
29) Chlorobenzene-d5	18.51	117	1377905	50.00	ug/l		-0.10
System Monitoring Compounds							%Recovery
15) 1,2-Dichloroethane-d4	10.00	65	726281	50.99	ug/l		101.98%
31) Toluene-d8	15.43	98	1634287	47.41	ug/l		94.82%
41) Bromofluorobenzene	21.24	95	1100265	49.40	ug/l		98.80%
Target Compounds							Qvalue
2) Chloromethane	3.21	50	240800	61.51	ug/l		93
3) Vinyl chloride	3.45	62	313468	37.48	ug/l		100
4) Chloroethane	4.12	64	341477	50.02	ug/l		97
5) Bromomethane	3.92	94	570696	49.03	ug/l		95
6) Acetone	4.76	43	287888	54.29	ug/l		100
7) 1,1-Dichloroethene	5.87	96	566777	49.94	ug/l		100
8) Methylene chloride	6.03	84	632935	50.53	ug/l		97
9) Carbon disulfide	6.46	76	1479601	51.24	ug/l		99
10) trans-1,2-Dichloroethene	7.27	96	608512	50.14	ug/l		89
11) 1,1-Dichloroethane	7.54	63	1325385	52.97	ug/l		99
12) 2-Butanone (MEK)	8.08	43	298050	56.46	ug/l		98
13) cis-1,2-Dichloroethene	8.71	96	677308	50.08	ug/l		97
14) Chloroform	9.11	83	1310376	54.02	ug/l		97
16) 1,2-Dichloroethane	10.15	62	789974	54.76	ug/l		98
18) 1,1,1-Trichloroethane	10.52	97	942098	55.26	ug/l		98
19) Carbon tetrachloride	11.42	117	835740	55.31	ug/l		96
20) Benzene	11.20	78	1660621	53.31	ug/l		98
21) Trichloroethene	12.75	130	706341	51.93	ug/l		98
22) 1,2-Dichloropropane	12.38	63	811856	52.45	ug/l		98
23) Bromodichloromethane	12.66	83	1137564	55.51	ug/l		99
24) cis-1,3-Dichloropropene	14.05	75	1016056	53.93	ug/l		96
25) trans-1,3-Dichloropropene	14.86	75	721241	54.56	ug/l		99
26) 1,1,2-Trichloroethane	15.14	97	563983	54.07	ug/l		99
27) Dibromochloromethane	16.27	129	909660	56.56	ug/l		98
28) Bromoform	19.69	173	665009	58.45	ug/l		100
30) 4-Methyl-2-pentanone (MIB	14.10	43	656189	58.64	ug/l		100
32) Toluene	15.58	92	985593	50.73	ug/l	#	100
33) 2-Hexanone	16.00	43	450482	58.21	ug/l		98
34) Tetrachloroethene	17.45	164	596392	51.94	ug/l		99
35) Chlorobenzene	18.58	112	1224580	51.80	ug/l		98
36) Ethylbenzene	19.24	91	2146548	53.24	ug/l		100
37) (m+p)Xylene	19.56	91	3636628	57.58	ug/l	m	98
38) o-Xylene	20.40	91	1754100	52.83	ug/l		100
39) Styrene	20.20	104	1092552	54.75	ug/l		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AZ461.D Vial: 1
Acq On : ~~26 Aug 95~~ 10:27 am 28Aug95 Operator: TOMT
Sample : 50PPB Inst : 5970 - In
Misc : 91-1 ASP (DL) 9/5/95 Multiplr: 1.00
Quant Time: Aug 26 14:25 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via. : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	20.36	83	792901	55.52 ug/l	97

00301

(#) = qualifier out of range (m) = manual integration

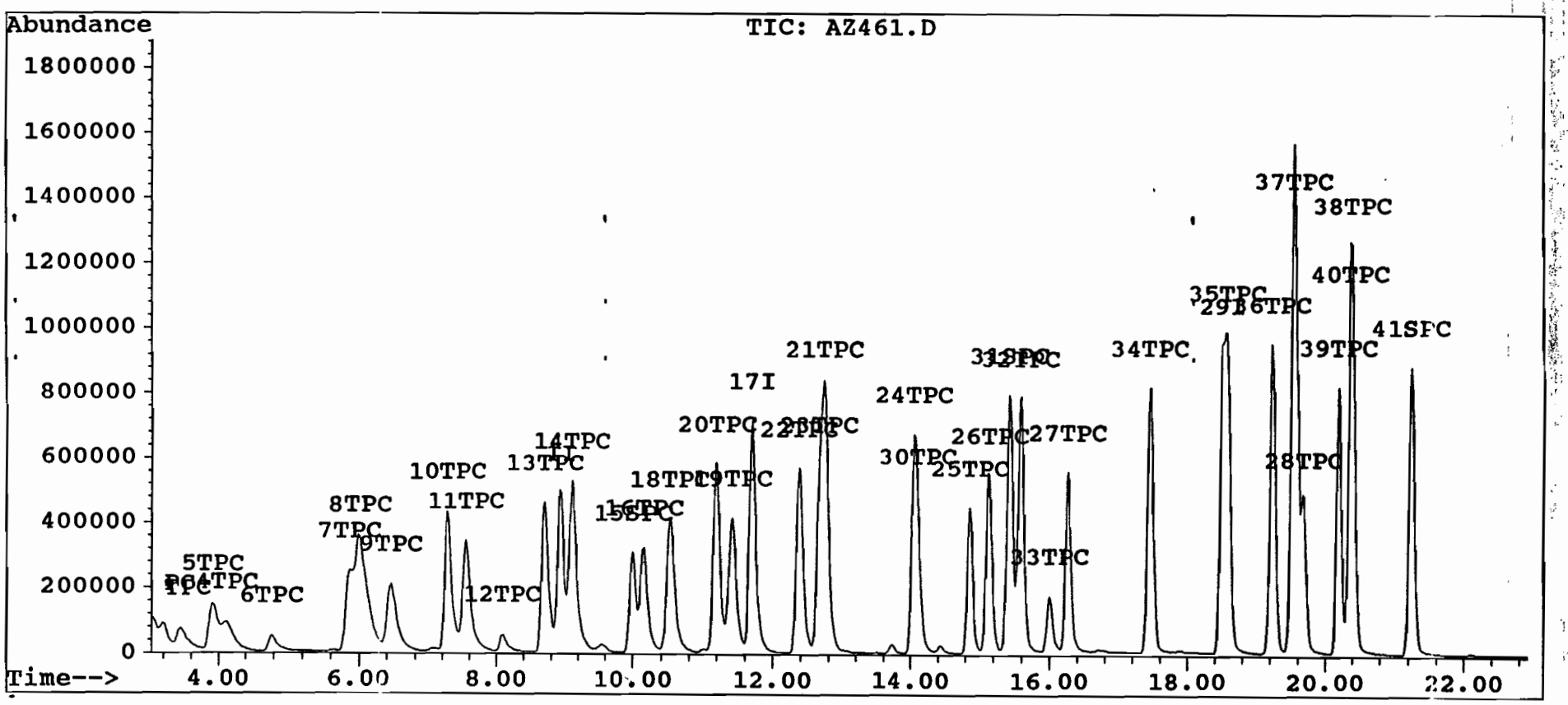
Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ461.D
Acq On : ~~26 Aug 95~~ 10:27 am 28 Aug 95
Sample : 50PPB
Misc : 91-1 ASP
Quant Time: Aug 26 14:25 1995

DL 9/5/95

Vial: 1
Operator: TOMT
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ462.D Vial: 1
Acq On : ~~26 Aug 95~~ 11:03 am 28 Aug 95 Operator: TOMT
Sample : 100PPB Inst : 5970 - In
Misc : 91-1 ASP (DL) 9/5/95 Multiplr: 1.00
Quant Time: Aug 26 14:31 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via. : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	8.96	128	405562	50.00	ug/l		0.02
17) 1,4-Difluorobenzene	11.70	114	1685251	50.00	ug/l		-0.05
29) Chlorobenzene-d5	18.59	117	1288400	50.00	ug/l		-0.02
System Monitoring Compounds							**%Recovery**
15) 1,2-Dichloroethane-d4	10.00	65	1388834	101.60	ug/l		203.20%
31) Toluene-d8	15.44	98	3142279	99.22	ug/l		198.43%
41) Bromofluorobenzene	21.39	95	2048048	98.74	ug/l		197.47%
Target Compounds							**Qvalue**
2) Chloromethane	3.23	50	431207	95.73	ug/l		100
3) Vinyl chloride	3.46	62	627609	85.88	ug/l		96
4) Chloroethane	4.15	64	672426	102.67	ug/l	m	0
5) Bromomethane	3.95	94	1099909	99.77	ug/l		100
6) Acetone	4.81	43	502828	96.32	ug/l		97
7) 1,1-Dichloroethene	5.91	96	1117649	103.33	ug/l		95
8) Methylene chloride	6.06	84	1224900	102.21	ug/l	m	0
9) Carbon disulfide	6.51	76	2923223	105.31	ug/l		100
10) trans-1,2-Dichloroethene	7.30	96	1158662	100.08	ug/l		95
11) 1,1-Dichloroethane	7.57	63	2547690	104.72	ug/l		98
12) 2-Butanone (MEK)	8.10	43	489660	93.28	ug/l		100
13) cis-1,2-Dichloroethene	8.72	96	1306830	101.20	ug/l		96
14) Chloroform	9.12	83	2527441	106.44	ug/l		98
16) 1,2-Dichloroethane	10.17	62	1515651	106.92	ug/l		96
18) 1,1,1-Trichloroethane	10.54	97	1859719	109.65	ug/l		98
19) Carbon tetrachloride	11.43	117	1673134	111.02	ug/l		99
20) Benzene	11.20	78	3214511	104.94	ug/l		98
21) Trichloroethene	12.75	130	1368754	103.29	ug/l		98
22) 1,2-Dichloropropane	12.39	63	1600373	105.79	ug/l		99
23) Bromodichloromethane	12.68	83	2259930	110.63	ug/l		96
24) cis-1,3-Dichloropropene	14.04	75	2018735	108.77	ug/l		99
25) trans-1,3-Dichloropropene	14.85	75	1415603	108.01	ug/l		99
26) 1,1,2-Trichloroethane	15.14	97	1066191	103.49	ug/l		93
27) Dibromochloromethane	16.29	129	1756527	108.82	ug/l		95
28) Bromoform	19.81	173	1219851	105.55	ug/l		96
30) 4-Methyl-2-pentanone (MIB	14.10	43	1167160	105.47	ug/l		98
32) Toluene	15.59	92	1921341	105.25	ug/l		99
33) 2-Hexanone	16.00	43	813350	107.42	ug/l		98
34) Tetrachloroethene	17.50	164	1136732	104.52	ug/l		97
35) Chlorobenzene	18.66	112	2342853	104.86	ug/l		98
36) Ethylbenzene	19.34	91	4129322	107.22	ug/l		100
37) (m+p)Xylene	19.67	91	6916762	111.49	ug/l	m	0
38) o-Xylene	20.53	91	3312913	104.74	ug/l		100
39) Styrene	20.33	104	2102750	109.24	ug/l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ462.D
Acq On : ~~26 Aug 95~~ 11:03 am 28 Aug 95
Sample : 100PPB
Misc : 91-1 ASP
Quant Time: Aug 26 14:31 1995

Vial: 1
Operator: TOMT
Inst : 5970 - In
Multiplr: 1.00

(DL) 9/5/95

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via, : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	20.50	83	1401848	101.26 ug/l	94

00304

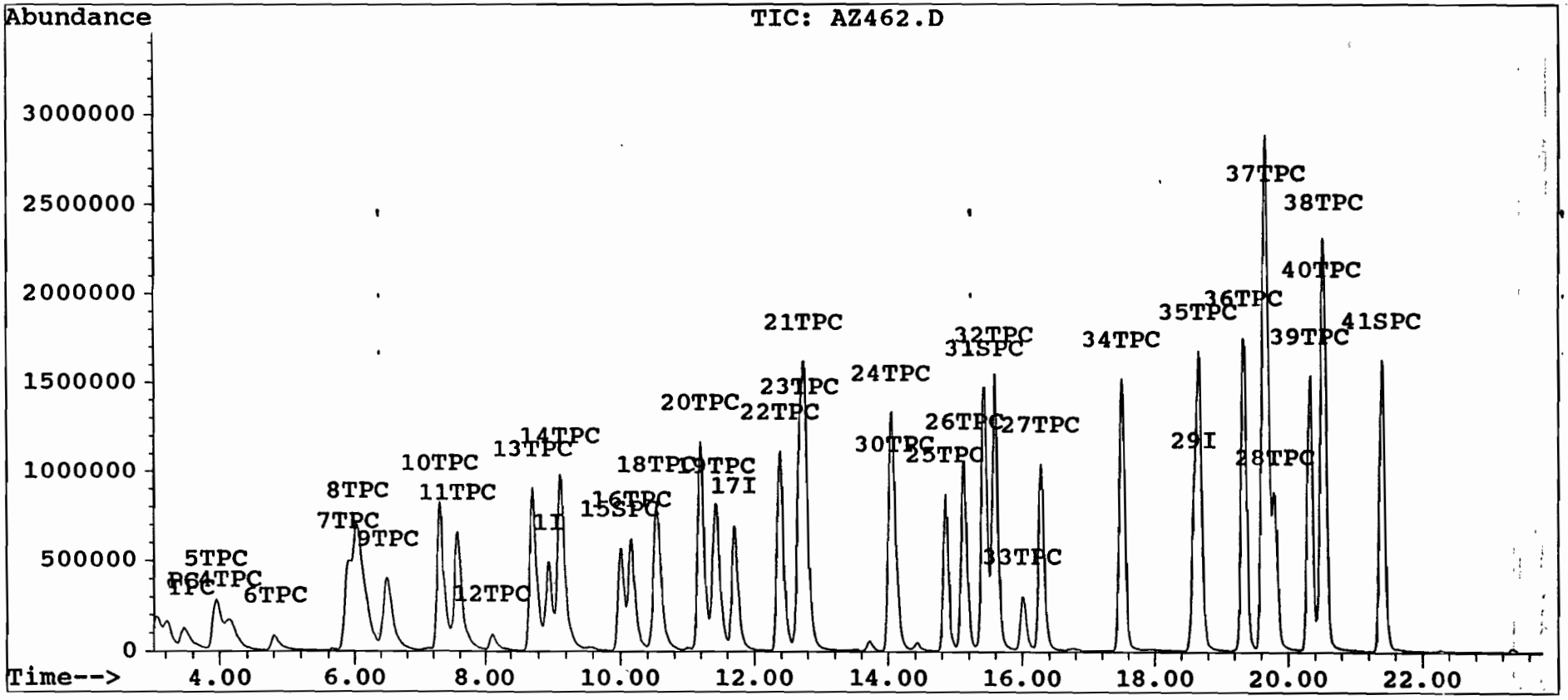
(#) = qualifier out of range (m) = manual integration

Quantita .on Report

Data File : C:\HPCHEM\1\DATA\AZ462.D
Acq On : ~~26 Aug 95~~ 11:03 am 28 Aug 95
Sample : 100PPB (DL) 9/5/95
Misc : 91-1 ASP
Quant Time: Aug 26 14:31 1995

Vial: 1
Operator: TOMT
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration



00351

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ466.D
Acq On : ~~26 Aug 95~~ 2:57 pm 28 Aug 95
Sample : 200ppb
Misc : 91-1 ASP (DL) 9/5/95
Quant Time: Aug 26 15:28 1995

Vial: 1
Operator: TOMT
Inst : 5970-- In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	8.91	128	412653	50.00	ug/l		-0.05
17) 1,4-Difluorobenzene	11.72	114	1683750	50.00	ug/l		0.02
29) Chlorobenzene-d5	18.58	117	1306243	50.00	ug/l		-0.02
System Monitoring Compounds							**%Recovery**
15) 1,2-Dichloroethane-d4	9.98	65	2854392	202.00	ug/l		403.99%
31) Toluene-d8	15.49	98	6217865	194.99	ug/l		389.99%
41) Bromofluorobenzene	21.29	95	3964828	190.54	ug/l		381.09%
Target Compounds							**Qvalue**
2) Chloromethane	3.21	50	811736	179.28	ug/l		100
3) Vinyl chloride	3.45	62	1025736	152.13	ug/l		98
4) Chloroethane	4.10	64	1369851	203.98	ug/l		93
5) Bromomethane	3.94	94	2199107	196.74	ug/l		99
6) Acetone	4.76	43	1046833	197.05	ug/l		99
7) 1,1-Dichloroethene	5.87	96	2342134	208.82	ug/l		95
8) Methylene chloride	5.99	84	2534166	204.73	ug/l		99
9) Carbon disulfide	6.43	76	6222831	213.86	ug/l		100
10) trans-1,2-Dichloroethene	7.24	96	2481315	208.73	ug/l		96
11) 1,1-Dichloroethane	7.51	63	5456683	214.93	ug/l		97
12) 2-Butanone (MEK)	8.05	43	1076422	203.00	ug/l	m	0
13) cis-1,2-Dichloroethene	8.67	96	2775222	209.36	ug/l		98
14) Chloroform	9.09	83	5366229	214.47	ug/l		98
16) 1,2-Dichloroethane	10.14	62	3228764	214.19	ug/l		97
18) 1,1,1-Trichloroethane	10.52	97	3878176	218.72	ug/l		97
19) Carbon tetrachloride	11.43	117	3547095	223.38	ug/l		97
20) Benzene	11.20	78	6644320	211.85	ug/l		98
21) Trichloroethene	12.78	130	2757133	206.14	ug/l		98
22) 1,2-Dichloropropane	12.41	63	3289745	211.49	ug/l		100
23) Bromodichloromethane	12.71	83	4630442	215.99	ug/l		98
24) cis-1,3-Dichloropropene	14.10	75	4175760	215.94	ug/l		98
25) trans-1,3-Dichloropropene	14.90	75	2991028	218.28	ug/l		99
26) 1,1,2-Trichloroethane	15.19	97	2163169	205.96	ug/l		97
27) Dibromochloromethane	16.34	129	3663084	216.56	ug/l		98
28) Bromoform	19.76	173	2500428	214.44	ug/l		100
30) 4-Methyl-2-pentanone (MIB	14.15	43	2416925	208.77	ug/l		97
32) Toluene	15.65	92	3933116	207.53	ug/l	m	0
33) 2-Hexanone	16.05	43	1652987	213.74	ug/l		98
34) Tetrachloroethene	17.52	164	2365052	209.75	ug/l		98
35) Chlorobenzene	18.64	112	4902533	211.49	ug/l		98
36) Ethylbenzene	19.30	91	8439334	209.83	ug/l		100
37) (m+p)Xylene	19.62	91	13793480	210.33	ug/l	m	0
38) o-Xylene	20.46	91	6806640	207.29	ug/l		100
39) Styrene	20.26	104	4346465	213.95	ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ466.D Vial: 1
Acq On : ~~26 Aug 95~~ 2:57 pm 28 Aug 95 Operator: TOMT
Sample : 200ppb Inst : 5970 - In
Misc : 91-1 ASP (DL) 9/5/95 Multiplr: 1.00
Quant Time: Aug 26 15:28 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40) 1,1,2,2-Tetrachloroethane	20.43	83	1424679	121.05	ug/l	m	99

00307

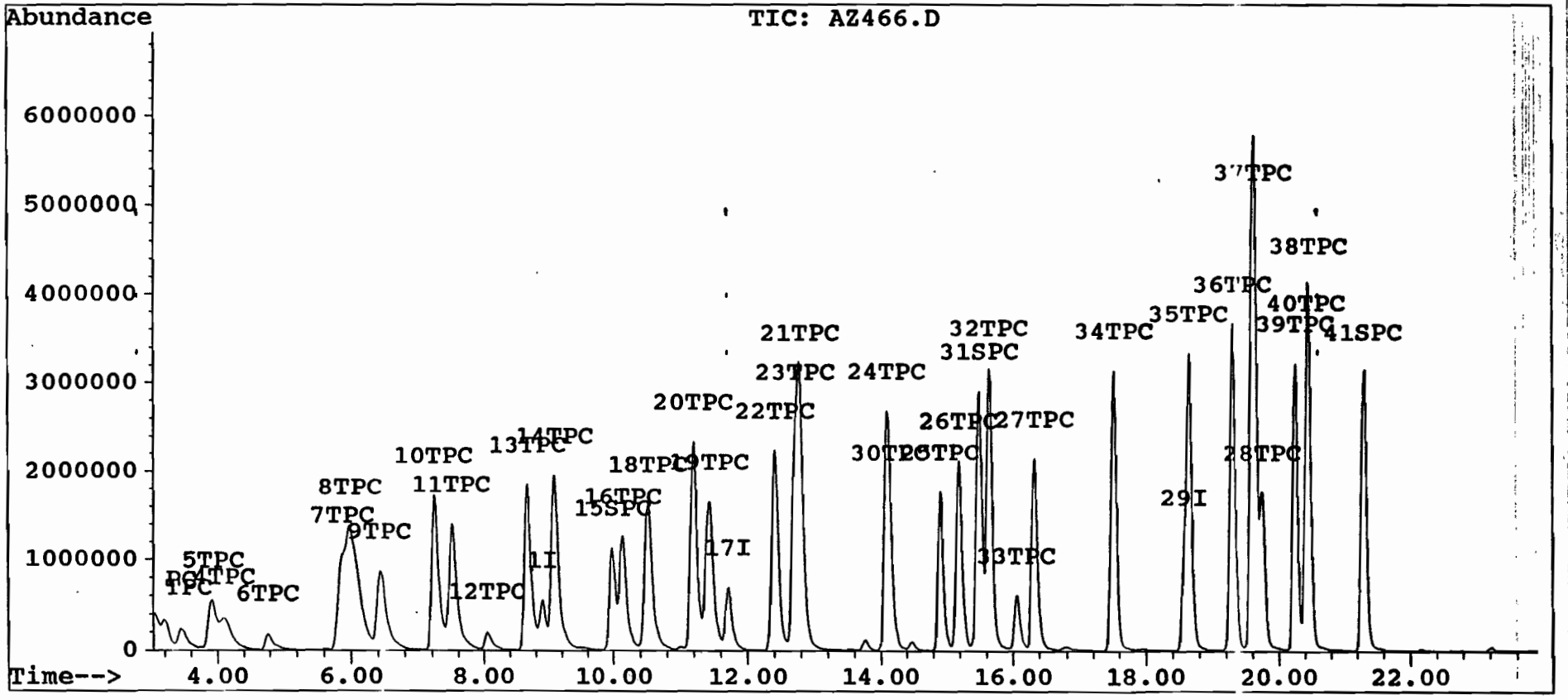
(#) = qualifier out of range (m) = manual integration

Quantita on Report

Data File : C:\HPCHEM\1\DATA\AZ466.D
Acq On : ~~26 Aug 95~~ 2:57 pm 28Aug 95
Sample : 200ppb
Misc : 91-1 ASP (DL) 9/5/95
Quant Time: Aug 26 15:28 1995

Vial: 1
Operator: TOMT
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sat Aug 26 15:29:23 1995
Response via : Multiple Level Calibration



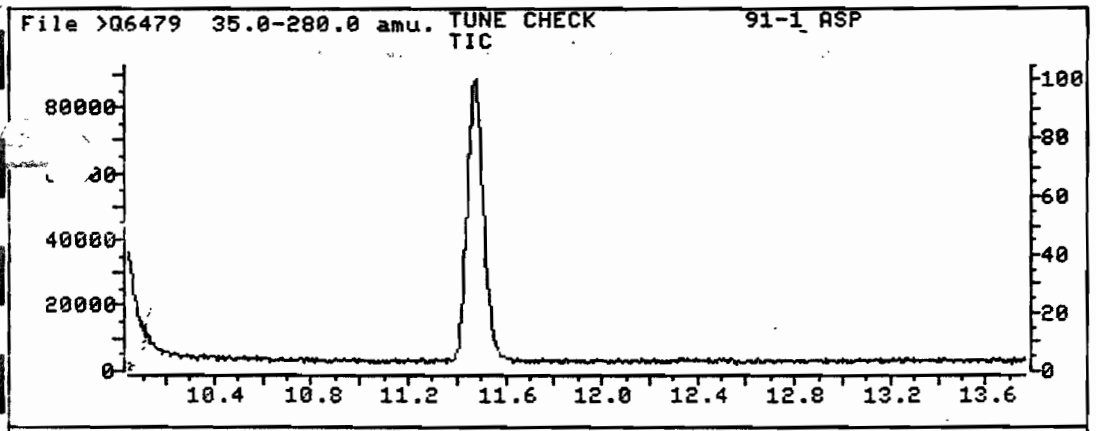
GC/MS PERFORMANCE STANDARD

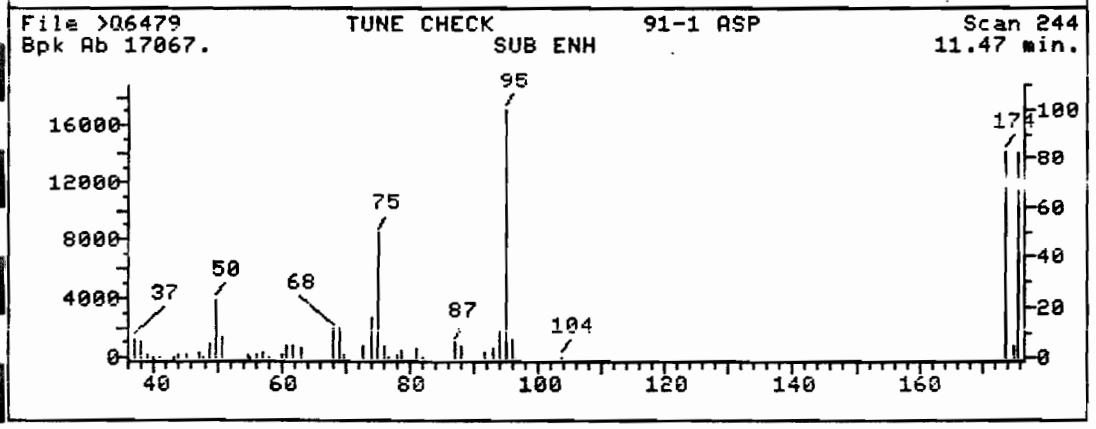
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	22.72	22.72	Ok
75	30-60% of mass 95	49.49	49.49	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.91	6.91	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	83.25	83.25	Ok
175	5-9% of mass 174	4.21	5.06	Ok
176	95-101% of mass 174	82.27	98.82	Ok
177	5-9% of mass 176	5.24	6.37	Ok

Injection Date: 08/28/95
Injection Time: 08:35
Data File: >Q6479
Scan: 244

Thomas D. Jones





m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	202.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3084.7	75.95	797.3	92.95	581.0
37.00	1217.0	[illegible]	851.7	[illegible]	757.3	76.85	104.0	94.05	1760.0
38.00	1037.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	202.7	94.95	17066.7
39.00	144.0	[illegible]	1354.3	[illegible]	1886.3	78.80	492.7	95.95	1179.3
40.00	[illegible]	[illegible]	202.7	68.95	2004.7	80.90	624.7	103.80	456.3
41.00	21.3	55.05	280.0	69.85	183.3	81.90	52.0	173.85	14208.7
43.10	-59.7	56.05	203.0	72.95	833.0	87.00	1006.7	174.95	718.7
44.00	244.0	57.05	378.0	73.95	2674.7	87.90	831.3	175.85	14040.3
45.10	211.7	58.00	50.0	74.95	8446.3	91.85	410.0	176.85	895.0
47.00	409.3	60.00	133.7						

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Instrument ID:MS#5 Calibration Date(s): 8/28/95 8/28/95

Heated Purge: (Y/N) N Calibration Times: 1043 1430

GC Column:RTX-502 ID: 0.53 (mm)

LAB FILE ID: RRF10 =Q6481 RRF20 =Q6482
RRF50 =Q6483 RRF100=Q6484 RRF200=Q6485

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
Chloromethane		1.075	0.856	1.161	0.992	1.067	1.030	11.1	
Bromomethane	*	1.107	0.839	1.033	0.790	0.728	0.899	18.1	*
Vinyl chloride	*	1.008	0.889	1.193	1.007	1.041	1.028	10.6	*
Chloroethane		0.773	0.669	0.900	0.719	0.674	0.747	12.7	
Methylene chloride		1.203	1.100	1.500	1.261	1.355	1.284	11.9	
Acetone		0.692	0.725	0.860	0.677	0.637	0.718	11.9	
Carbon Disulfide		2.983	2.675	3.730	3.211	3.456	3.211	12.7	
1,1-Dichloroethene	*	1.044	0.904	1.292	1.116	1.186	1.108	13.2	*
1,1-Dichloroethane	*	2.427	2.254	3.124	2.625	2.772	2.640	12.7	*
trans-1,2-Dichloroethene		1.240	1.158	1.629	1.396	1.474	1.379	13.6	
Chloroform	*	2.619	2.347	3.221	2.802	2.925	2.783	11.8	*
1,2-Dichloroethane	*	1.629	1.510	2.080	1.781	1.842	1.768	12.3	*
2-Butanone		0.943	0.826	1.012	0.844	0.834	0.892	9.2	
cis-1,2-Dichloroethene		1.240	1.158	1.629	1.396	1.474	1.379	13.6	
1,1,1-Trichloroethane	*	0.489	0.440	0.612	0.537	0.573	0.530	12.8	*
Carbon tetrachloride	*	0.433	0.397	0.576	0.509	0.549	0.493	15.4	*
Bromodichloromethane	*	0.553	0.497	0.710	0.624	0.664	0.610	14.0	*
1,2-Dichloropropane		0.384	0.354	0.490	0.426	0.450	0.421	12.7	
cis-1,3-Dichloropropene	*	0.513	0.477	0.684	0.601	0.641	0.583	14.9	*
Trichloroethene	*	0.385	0.353	0.502	0.435	0.465	0.428	14.0	*
Dibromochloromethane	*	0.473	0.436	0.657	0.575	0.620	0.552	17.2	*
1,1,2-Trichloroethane	*	0.312	0.283	0.403	0.352	0.372	0.344	13.8	*
Benzene	*	0.904	0.807	1.128	0.963	1.029	0.966	12.6	*
trans-1,3-Dichloropropene	*	0.372	0.333	0.495	0.441	0.465	0.421	15.9	*
Bromoform	*	0.329	0.313	0.478	0.429	0.455	0.401	18.7	*
4-Methyl-2-Pentanone		0.536	0.449	0.674	0.561	0.595	0.563	14.6	
2-Hexanone		0.351	0.321	0.471	0.390	0.394	0.385	14.7	
Tetrachloroethene	*	0.384	0.349	0.500	0.436	0.471	0.428	14.4	*
1,1,2,2-Tetrachloroethane	*	0.673	0.607	0.876	0.767	0.795	0.744	14.2	*
Toluene	*	1.097	0.989	1.379	1.219	1.311	1.199	13.2	*
Chlorobenzene	*	0.843	0.778	1.099	0.959	1.028	0.941	14.0	*
Ethylbenzene	*	0.381	0.366	0.503	0.436	0.454	0.428	13.0	*
Styrene	*	0.829	0.764	1.089	0.976	0.964	0.924	13.9	*
(m+p)Xylene	*	0.506	0.458	0.655	0.572	0.567	0.552	13.5	*
o-Xylene	*	0.506	0.458	0.655	0.572	0.567	0.552	13.5	*
Toluene-d8		1.079	1.082	1.107	1.119	1.125	1.102	1.9	
Bromofluorobenzene	*	0.670	0.646	0.680	0.698	0.688	0.676	2.9	*
1,2-Dichloroethane-d4		1.722	1.700	1.748	1.681	1.652	1.701	2.2	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

00310

[redacted] QUANT REPORT [redacted]

Operator: [redacted] Quant Rev: [redacted] Quant Time: 950827 23:19

Output File: [redacted] Injected at: [redacted]

Data File: >Q6481*.D5 Dilution Factor: 1.00000

Name: 10 PPB Instrument ID: 1

Misc: IDECLP

ID File: IDECLP.QT

Title: Volatile Organics on MS#5

Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.09	128.0	246414	50.00	ppb	98
2)	Chloromethane	4.02	50.0	52966	9.69	ppb	97
3)	Vinyl chloride	4.13	62.0	49666	8.65	ppb	73
4)	Bromomethane	4.88	94.0	54536	10.53	ppb	99
5)	Chloroethane	5.00	64.0	38077	9.00	ppb	99
6)	Acetone	6.19	43.0	34088	8.30	ppb	98
7)	1,1-Dichloroethene	6.43	96.0	51468	8.46	ppb	91
8)	Methylene chloride	7.20	84.0	59267	8.44	ppb	95
9)	Carbon Disulfide	7.29	76.0	147011	8.37	ppb	98
10)	trans-1,2-Dichloroethene	7.72	96.0	57601	8.00	ppb	93
11)	1,1-Dichloroethane	8.42	63.0	119607	8.27	ppb	98
12)	2-Butanone	9.14	43.0	46486	10.21	ppb	95
13)	cis-1,2-Dichloroethene	9.50	96.0	64609	8.07	ppb	91
14)	Chloroform	9.78	83.0	129084	8.61	ppb	98
)	1,2-Dichloroethane	11.26	62.0	80306	8.46	ppb	98
16)	1,2-Dichloroethane-d4	11.08	65.0	84866	10.01	ppb	90
17)	*1,4-Difluorobenzene	11.82	114.0	1062430	50.00	ppb	85
18)	1,1,1-Trichloroethane	10.55	97.0	103937	8.45	ppb	92
19)	Carbon tetrachloride	11.07	117.0	91988	8.03	ppb	98
20)	Benzene	11.34	78.0	192190	8.77	ppb	93
21)	Trichloroethene	12.51	130.0	81896	8.41	ppb	96
22)	1,2-Dichloropropane	12.84	63.0	81623	8.51	ppb	95
23)	Bromodichloromethane	13.30	83.0	117417	8.35	ppb	98
24)	cis-1,3-Dichloropropene	14.38	75.0	108959	8.28	ppb	99
25)	trans-1,3-Dichloropropene	15.41	75.0	78945	8.36	ppb	97
26)	1,1,2-Trichloroethane	15.78	97.0	66326	8.48	ppb	97
27)	Dibromochloromethane	16.93	129.0	100555	7.90	ppb	95
28)	Bromoform	20.52	173.0	69873	7.22	ppb	93
29)	*Chlorobenzene-d5	18.27	117.0	891876	50.00	ppb	95
30)	4-Methyl-2-Pentanone	13.95	43.0	95627	8.99	ppb	87
31)	Toluene-d8	14.93	98.0	192548	10.69	ppb	92
32)	Toluene	15.11	91.0	195686	9.16	ppb	95
33)	2-Hexanone	15.79	43.0	62571	8.98	ppb	97
34)	Tetrachloroethene	16.55	164.0	68482	8.64	ppb	97
35)	Chlorobenzene	18.35	112.0	150353	8.37	ppb	91
36)	Ethylbenzene	18.47	106.0	67990	8.54	ppb	88
37)	(m+p)Xylene	18.66	106.0	190312	18.42	ppb	98
38)	o-Xylene	19.68	106.0	90319	8.74	ppb	94
39)	Styrene	19.73	104.0	147881	8.58	ppb	95
)	1,1,2,2-Tetrachloroethane	20.88	83.0	120063	8.66	ppb	94

Operator ID: [illegible] Quant Rev: [illegible] Quant Time: [illegible]

Output File: Q6481.PB Injected at: [illegible]

Data File: >Q6481.:D5 Dilution Factor: 1.00000

Name: 10 PPB Instrument ID: 1

Misc: IDECLP

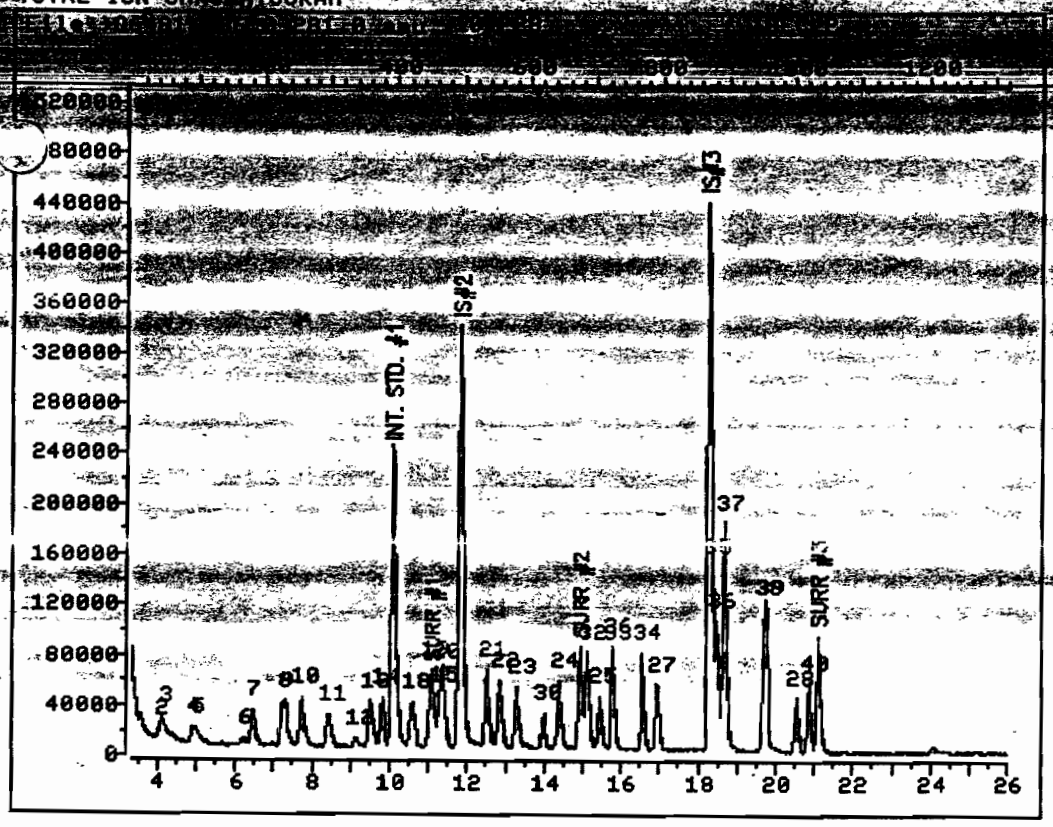
ID File: IDECLP.:QT

Title: Volatile Organics on MS#5

Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

Compound	R.T.	Q ion	Area	Conc	Units	q
41) Bromofluorobenzene	21.10	95.0	119454	10.27	ppb	87

* Compound is ISTD



Data File: >Q6481::D5
Name: 10 PPB
Misc: IDECLP

Quant Output File: ^Q6481::D5
Instrument ID: 1

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02

Last Qcal Time: 950826 10:57

Operator ID: TOMT
Quant Time : 950827 23:19
Injected at: 950828 10:43

Quant

Output: 96482::D5 Dilution Factor: 1.00000

Name: 20 PPB Instrument ID: 1

Misc: IDECLP

ID File: IDECLP::QT

Title: Volatile Organics on MS#5

Last Calibration: 950725 16:02 Last Ocal Time: 950826 10:57

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.09	128.0	243494	50.00	ppb	95
2)	Chloromethane	4.04	50.0	83345	15.43	ppb	9
3)	Vinyl chloride	4.18	62.0	86613	15.26	ppb	79
4)	Bromomethane	4.93	94.0	81711	15.96	ppb	88
5)	Chloroethane	5.05	64.0	65164	15.59	ppb	98
6)	Acetone	6.26	43.0	70616	17.40	ppb	95
7)	1,1-Dichloroethene	6.50	96.0	88039	14.64	ppb	92
8)	Methylene chloride	7.25	84.0	107172	15.45	ppb	90
9)	Carbon Disulfide	7.34	76.0	260493	15.01	ppb	99
10)	trans-1,2-Dichloroethene	7.77	96.0	104646	14.70	ppb	92
11)	1,1-Dichloroethane	8.47	63.0	219582	15.36	ppb	98
12)	2-Butanone	9.18	43.0	80431	17.88	ppb	86
13)	cis-1,2-Dichloroethene	9.52	96.0	120850	15.27	ppb	91
14)	Chloroform	9.79	83.0	228635	15.44	ppb	97
)	1,2-Dichloroethane	11.26	62.0	147085	15.68	ppb	99
16)	1,2-Dichloroethane-d4	11.08	65.0	165541	19.76	ppb	91
17)	*1,4-Difluorobenzene	11.81	114.0	1073056	50.00	ppb	86
18)	1,1,1-Trichloroethane	10.55	97.0	188943	15.21	ppb	95
19)	Carbon tetrachloride	11.05	117.0	170520	14.73	ppb	96
20)	Benzene	11.34	78.0	346280	15.65	ppb	93
21)	Trichloroethene	12.49	130.0	151382	15.39	ppb	98
22)	1,2-Dichloropropane	12.82	63.0	152075	15.71	ppb	93
23)	Bromodichloromethane	13.27	83.0	213183	15.00	ppb	96
24)	cis-1,3-Dichloropropene	14.35	75.0	204879	15.42	ppb	98
25)	trans-1,3-Dichloropropene	15.38	75.0	143009	15.00	ppb	97
26)	1,1,2-Trichloroethane	15.74	97.0	121467	15.37	ppb	94
27)	Dibromochloromethane	16.89	129.0	187124	14.55	ppb	95
28)	Bromoform	20.47	173.0	134352	13.75	ppb	93
29)	*Chlorobenzene-d5	18.23	117.0	893063	50.00	ppb	96
30)	4-Methyl-2-Pentanone	13.94	43.0	160419	15.06	ppb	87
31)	Toluene-d8	14.90	98.0	386557	21.42	ppb	91
32)	Toluene	15.07	91.0	353171	16.51	ppb	98
33)	2-Hexanone	15.74	43.0	114724	16.45	ppb	93
34)	Tetrachloroethene	16.51	164.0	124765	15.72	ppb	91
35)	Chlorobenzene	18.32	112.0	278032	15.45	ppb	95
36)	Ethylbenzene	18.44	106.0	130754	16.40	ppb	91
37)	(m+p)Xylene	18.61	106.0	346250	33.46	ppb	99
38)	o-Xylene	19.62	106.0	163554	15.81	ppb	95
39)	Styrene	19.69	104.0	273071	15.83	ppb	93
)	1,1,2,2-Tetrachloroethane	20.83	83.0	216799	15.61	ppb	98

[redacted]

Data File: >Q6482.D5 Dilution Factor: 1.00000

Name: 20PPB Instrument ID: 1

Misc: IDECLP

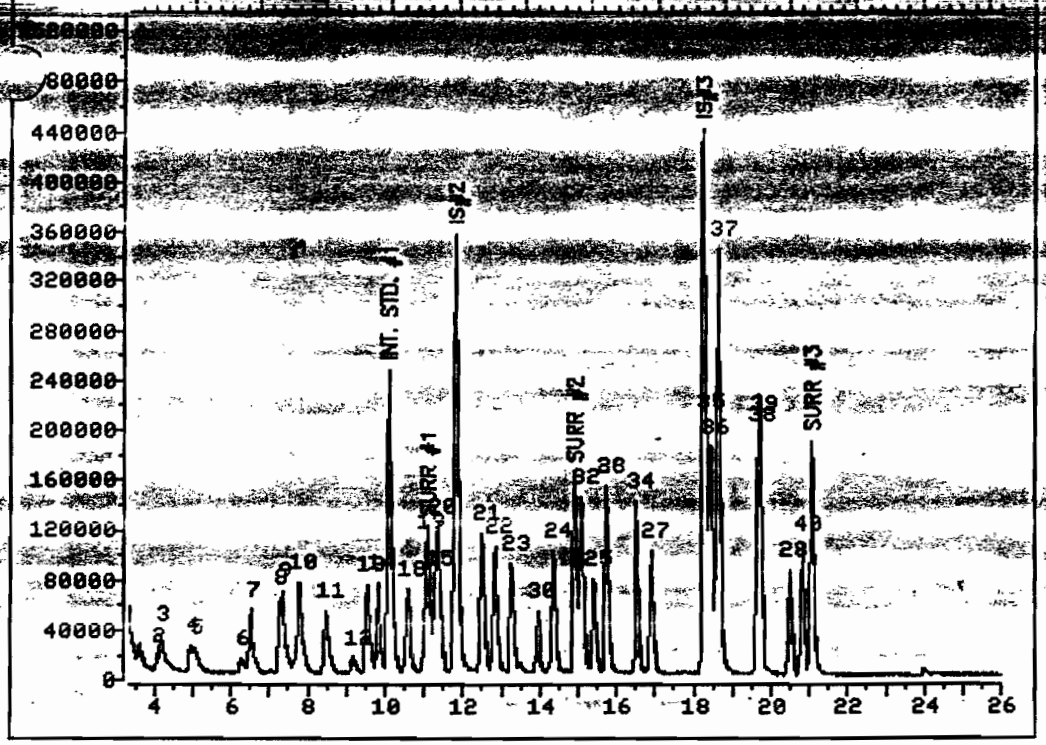
ID File: IDECLP.IDT

Title: Volatile Organics on MS#5

Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	*Bromofluorobenzene	21.05	95.0	230626	19.79	ppb	84

**Compound is ISTD



Data File: >Q6482::D5 Quant Output File: ^Q6482::D5
Name: 20 PPB Instrument ID: 1
Misc: IDECLP

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

Operator ID: TOMT
Quant Time : 950828 00:19
Injected at: 950828 11:30

Operator ID: Quant Rev: / Quant Time: [illegible]
Output [illegible] Injected at: 950828 10:29
Data File: [illegible]00483.D5 Dilution Factor: 1.00000
Name: 250 PPB Instrument ID: 1
Misc: IDECLP

ID File: IDECLP.QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

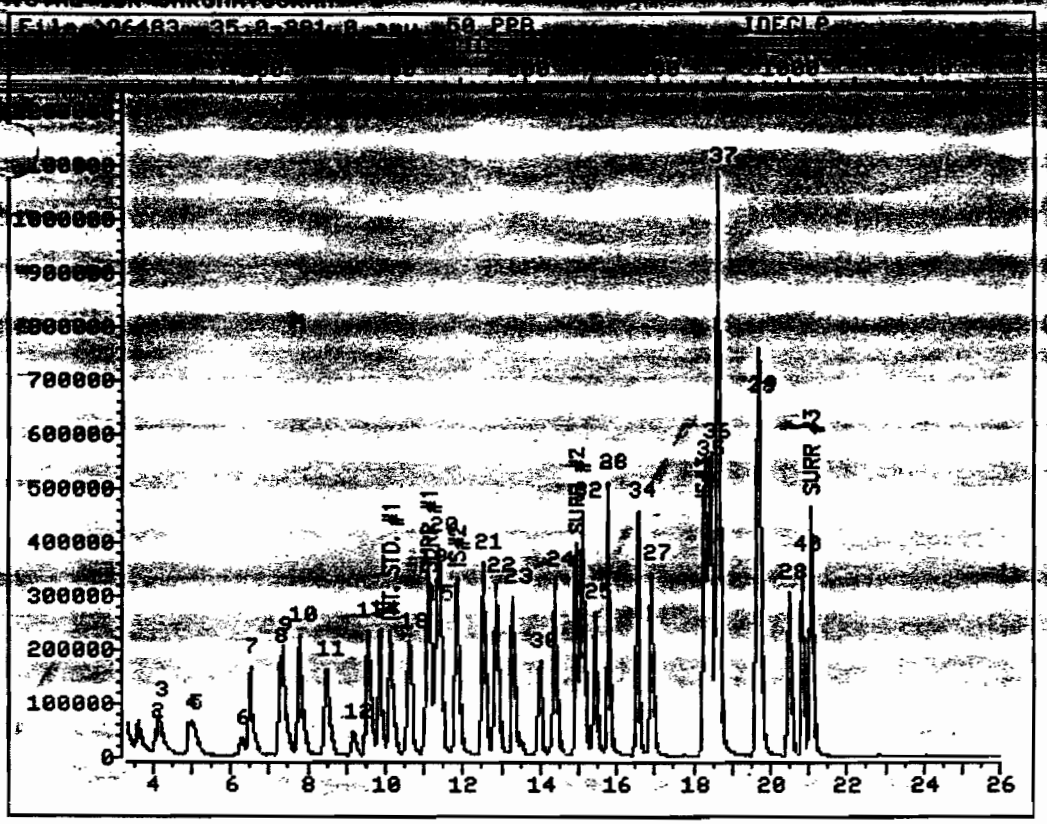
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.12	128.0	228115	50.00	ppb	99
2)	Chloromethane	4.06	50.0	264751	52.30	ppb	94
3)	Vinyl chloride	4.18	62.0	272151	51.19	ppb	76
4)	Bromomethane	4.92	94.0	235630	49.13	ppb	91
5)	Chloroethane	5.05	64.0	205348	52.43	ppb	94
6)	*Acetone	6.26	43.0	196088	51.57	ppb	94
7)	1,1-Dichloroethene	6.48	96.0	294768	52.31	ppb	92
8)	Methylene chloride	7.25	84.0	342086	52.63	ppb	91
9)	Carbon Disulfide	7.34	76.0	850926	52.35	ppb	96
10)	trans-1,2-Dichloroethene	7.77	96.0	345940	51.87	ppb	93
11)	1,1-Dichloroethane	8.47	63.0	712711	53.21	ppb	98
12)	2-Butanone	9.19	43.0	230763	54.75	ppb	86
13)	cis-1,2-Dichloroethene	9.54	96.0	397256	53.57	ppb	90
14)	Chloroform	9.83	83.0	734817	52.96	ppb	99
)	1,2-Dichloroethane	11.29	62.0	474407	53.97	ppb	96
16)	1,2-Dichloroethane-d4	11.12	65.0	398802	50.80	ppb	92
17)	*1,4-Difluorobenzene	11.84	114.0	992907	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.59	97.0	607243	52.82	ppb	95
19)	Carbon tetrachloride	11.09	117.0	572083	53.42	ppb	99
20)	Benzene	11.36	78.0	1120032	54.71	ppb	96
21)	Trichloroethene	12.53	130.0	498923	54.82	ppb	97
22)	1,2-Dichloropropane	12.84	63.0	486737	54.33	ppb	91
23)	Bromodichloromethane	13.30	83.0	704616	53.59	ppb	99
24)	cis-1,3-Dichloropropene	14.39	75.0	678684	55.19	ppb	95
25)	trans-1,3-Dichloropropene	15.40	75.0	491207	55.68	ppb	96
26)	1,1,2-Trichloroethane	15.76	97.0	400467	54.75	ppb	97
27)	Dibromochloromethane	16.91	129.0	652108	54.81	ppb	96
28)	Bromoform	20.47	173.0	474453	52.49	ppb	95
29)	*Chlorobenzene-d5	18.24	117.0	837767	50.00	ppb	94
30)	4-Methyl-2-Pentanone	13.96	43.0	564287	56.47	ppb	89
31)	Toluene-d8	14.94	98.0	927719	54.81	ppb	92
32)	Toluene	15.11	91.0	1155174	57.57	ppb	97
33)	2-Hexanone	15.76	43.0	394885	60.36	ppb	97
34)	Tetrachloroethene	16.54	164.0	419003	56.27	ppb	92
35)	Chlorobenzene	18.32	112.0	920352	54.53	ppb	93
36)	Ethylbenzene	18.44	106.0	421268	56.33	ppb	89
37)	(m+p)Xylene	18.62	106.0	1084220	111.70	ppb	98
38)	o-Xylene	19.63	106.0	548903	56.55	ppb	96
39)	Styrene	19.70	104.0	912682	56.39	ppb	94
)	1,1,2,2-Tetrachloroethane	20.83	83.0	733651	56.31	ppb	99

Data File: >Q6483::D5 Dilution Factor: 1.00000
Name: 50 PPB Instrument ID: 1
Misc: IDECLP

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

Compound	R.T.	Q ion	Area	Conc	Units	q
41) Bromofluorobenzene	21.06	95.0	569713	52.12	ppb	87

* Compound is ISTD



Data File: >Q6483::D5 Quant Output File: ^Q6483::D5
Name: 50 PPB Instrument ID: 1
Misc: IDECLP

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

Operator ID: TOMT
Quant Time : 950828 01:05
Injected at: 950828 12:29

[redacted]

Misc: IDECLP

ID File: IDECLP..QT

Title: Volatile Organics on MS#5

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *Bromochloromethane	10.09	128.0	245406	50.00	ppb	9
2) Chloromethane	4.02	50.0	486830	89.40	ppb	97
3) Vinyl chloride	[redacted]	[redacted]	[redacted]	[redacted]	ppb	7
4) Bromomethane	4.87	94.0	387681	75.13	ppb	97
5) Chloroethane	5.00	64.0	352811	83.74	ppb	9
6) Acetone	6.24	43.0	332319	81.25	ppb	9
7) 1,1-Dichloroethene	6.45	96.0	547673	90.34	ppb	9
8) Methylene chloride	7.22	84.0	619088	88.54	ppb	9
9) Carbon Disulfide	7.30	76.0	1575803	90.11	ppb	97
10) trans-1,2-Dichloroethene	7.73	96.0	640197	89.23	ppb	9
11) 1,1-Dichloroethane	8.46	63.0	1288473	89.41	ppb	9
12) 2-Butanone	9.18	43.0	414154	91.34	ppb	9
13) cis-1,2-Dichloroethene	9.50	96.0	729775	91.48	ppb	9
14) Chloroform	9.80	83.0	1375420	92.14	ppb	99
) 1,2-Dichloroethane	11.26	62.0	874312	92.46	ppb	9
16) 1,2-Dichloroethane-d4	11.09	65.0	825129	97.70	ppb	92
17) *1,4-Difluorobenzene	11.81	114.0	1046992	50.00	ppb	8
18) 1,1,1-Trichloroethane	10.55	97.0	1124539	92.76	ppb	95
19) Carbon tetrachloride	11.05	117.0	1065277	94.33	ppb	9
20) Benzene	11.33	78.0	2016863	93.43	ppb	96
21) Trichloroethene	12.50	130.0	911126	94.94	ppb	99
22) 1,2-Dichloropropane	12.82	63.0	892882	94.52	ppb	93
23) Bromodichloromethane	13.29	83.0	1306987	94.27	ppb	99
24) cis-1,3-Dichloropropene	14.35	75.0	1259359	97.12	ppb	95
25) trans-1,3-Dichloropropene	15.40	75.0	924332	99.36	ppb	95
26) 1,1,2-Trichloroethane	15.75	97.0	736762	95.53	ppb	97
27) Dibromochloromethane	16.90	129.0	1203431	95.92	ppb	96
28) Bromoform	20.48	173.0	897810	94.19	ppb	96
29) *Chlorobenzene-d5	18.24	117.0	884714	50.00	ppb	97
30) 4-Methyl-2-Pentanone	13.94	43.0	992661	94.07	ppb	88
31) Toluene-d8	14.92	98.0	1979866	110.77	ppb	88
32) Toluene	15.09	91.0	2157451	101.82	ppb	98
33) 2-Hexanone	15.77	43.0	690497	99.94	ppb	97
34) Tetrachloroethene	16.52	164.0	771292	98.08	ppb	96
35) Chlorobenzene	18.33	112.0	1696490	95.19	ppb	91
36) Ethylbenzene	18.45	106.0	771448	97.68	ppb	90
37) (m+p)Xylene	18.62	106.0	2063759	201.34	ppb	99
38) o-Xylene	19.63	106.0	1012225	98.75	ppb	94
39) Styrene	19.70	104.0	1726983	101.03	ppb	95
) 1,1,2,2-Tetrachloroethane	20.84	83.0	1357600	98.68	ppb	98

[redacted]

[redacted] Dilution [redacted]

N[redacted]e: 100 PPB Instrument ID: 1

Misc: IDECLP

[redacted]

ID [redacted]

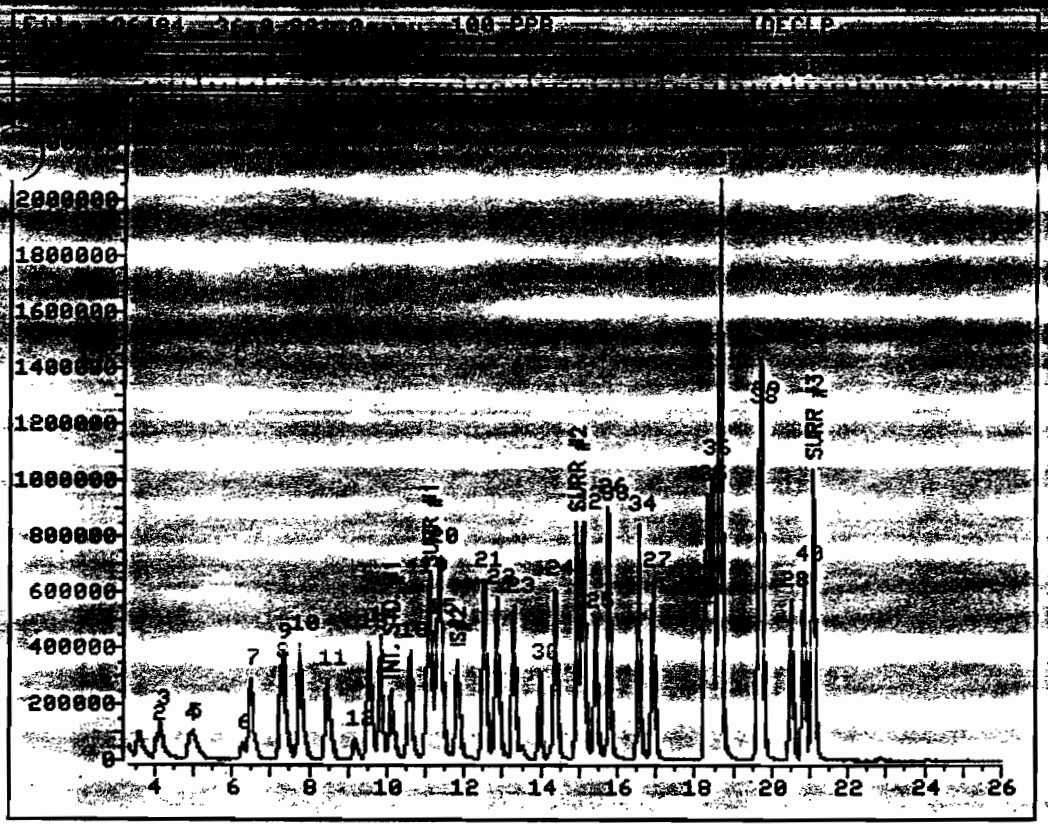
Title: Volatile Organics on MS#5

Last [redacted] Last [redacted]

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	Bromofluorobenzene	21.06	95.0	1235020	107.00	ppb	89

* Compound [redacted]

[redacted]



Data File: >Q6484::D5 Quant Output File: ^Q6484::D5
Name: 100 PPB Instrument ID: 1
Misc: IDECLP

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

Operator ID: TOMT
Quant Time : 950828 02:22
Injected at: 950828 13:14

[redacted]

Data File: [redacted]:D5 Dilution Factor: 1.00000
Name: 200 PPB Instrument ID: 1
Misc: IDECLP

ID File: IDECLP.MT
[redacted]
Last Calibration: 950725 16:02 Last Cal Time: 950826 10:57

	Compound	R.T.	Q-ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.07	128.0	250029	50.00	ppb	97
2)	Chloromethane	4.02	50.0	1067091	192.33	ppb	95
3)	Vinylchloride	4.14	62.0	1040943	178.64	ppb	75
4)	Bromomethane	4.87	94.0	728264	138.53	ppb	93
5)	Chloroethane	5.00	64.0	673809	156.96	ppb	99
6)	Acetone	6.27	43.0	636912	152.83	ppb	92
7)	1,1-Dichloroethene	6.45	96.0	1186555	192.12	ppb	91
8)	Methylene chloride	7.24	84.0	1354684	190.15	ppb	93
9)	Carbon Disulfide	7.31	76.0	3456713	194.01	ppb	96
10)	trans-1,2-Dichloroethene	7.74	96.0	1387244	189.78	ppb	92
11)	1,1-Dichloroethane	8.44	63.0	2771834	188.79	ppb	99
12)	2-Butanone	9.18	43.0	834327	180.60	ppb	90
13)	cis-1,2-Dichloroethene	9.49	96.0	1561047	192.06	ppb	90
14)	Chloroform	9.78	83.0	2925825	192.38	ppb	98
15)	1,2-Dichloroethane	11.24	62.0	1842547	191.25	ppb	97
16)	1,2-Dichloroethane-d4	11.07	65.0	1651743	191.96	ppb	93
17)	*1,4-Difluorobenzene	11.79	114.0	1052246	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.54	97.0	2410157	197.81	ppb	94
19)	Carbon tetrachloride	11.04	117.0	2310978	203.61	ppb	96
20)	Benzene	11.33	78.0	4332846	199.72	ppb	96
21)	Trichloroethene	12.50	130.0	1955666	202.76	ppb	97
22)	1,2-Dichloropropane	12.81	63.0	1894652	199.56	ppb	93
23)	Bromodichloromethane	13.27	83.0	2795780	200.64	ppb	99
24)	cis-1,3-Dichloropropene	14.36	75.0	2696446	206.92	ppb	95
25)	trans-1,3-Dichloropropene	15.39	75.0	1958254	209.46	ppb	95
26)	1,1,2-Trichloroethane	15.75	97.0	1565078	201.92	ppb	97
27)	Dibromochloromethane	16.91	129.0	2609829	206.99	ppb	97
28)	Bromoform	20.48	173.0	1916862	200.10	ppb	95
29)	*Chlorobenzene-d5	18.23	117.0	877861	50.00	ppb	96
30)	4-Methyl-2-Pentanone	13.95	43.0	2087770	199.38	ppb	88
31)	Toluene-d8	14.91	98.0	3949241	222.68	ppb	88
32)	Toluene	15.08	91.0	4604783	219.02	ppb	96
33)	2-Hexanone	15.77	43.0	1384017	201.89	ppb	96
34)	Tetrachloroethene	16.53	164.0	1654444	212.03	ppb	95
35)	Chlorobenzene	18.32	112.0	3610417	204.16	ppb	92
36)	Ethylbenzene	18.44	106.0	1594351	203.44	ppb	91
37)	(m+p)Xylene	18.63	106.0	4194760	412.43	ppb	99
38)	o-Xylene	19.64	106.0	1990817	195.74	ppb	92
39)	Styrene	19.71	104.0	3384862	199.57	ppb	92
40)	1,1,2,2-Tetrachloroethane	20.84	83.0	2792387	204.55	ppb	97

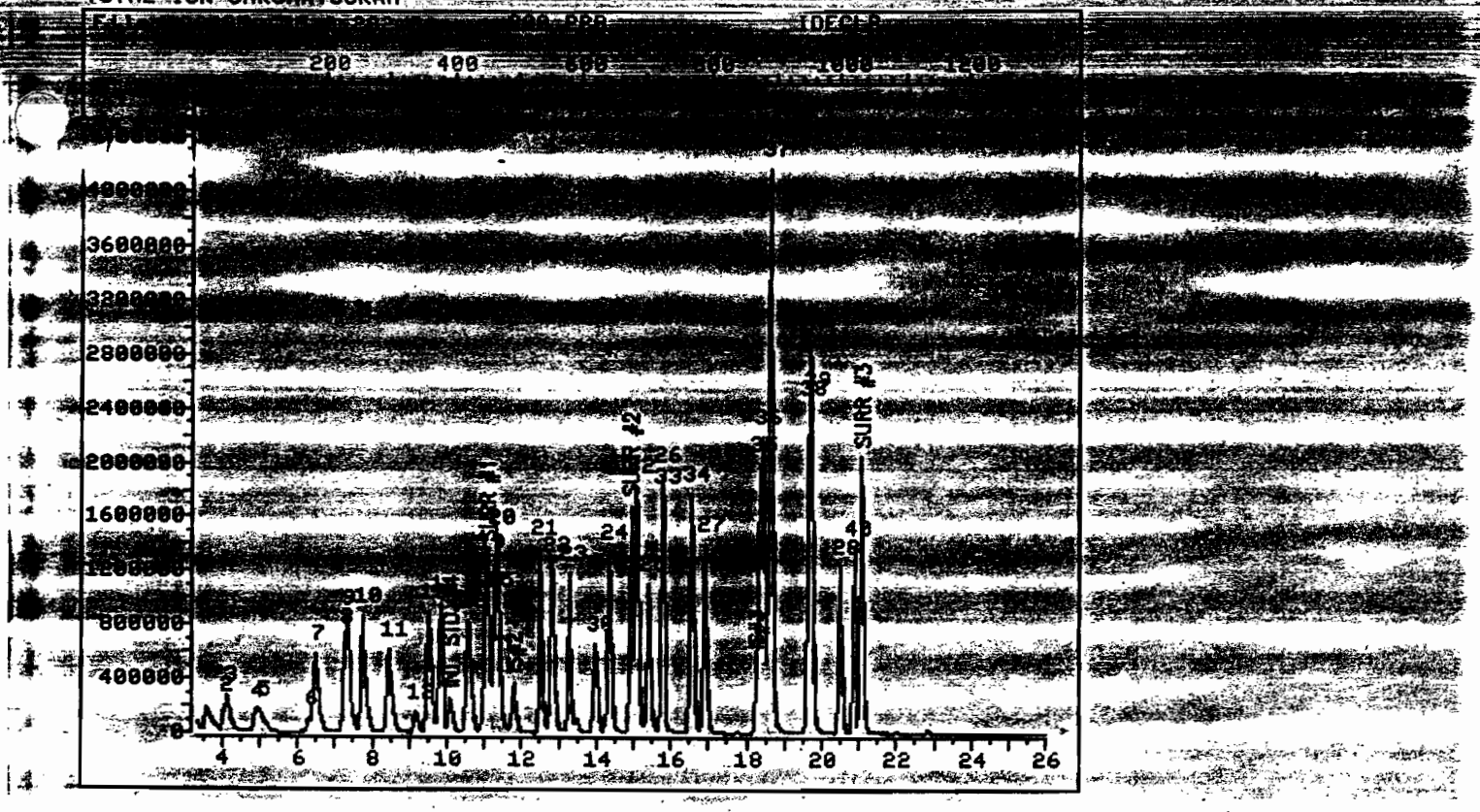
[redacted]

Instrument ID: 1

Title: Volatile Organics on MS#5

Compound	R.T.	Q ion	Area	Conc	Units	q
41) Bromofluorobenzene	21.07	95.0	2416100	210.96	ppb	90

* Compound is [redacted]



Data File: >Q6485::D5 Quant Output File: ^Q6485::D5
Name: 200 PPB Instrument ID: 1
Misc: IDECLP

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950826 10:57

Operator ID: TOMT
Quant Time : 950828 03:05
Injected at: 950828 14:30

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Instrument ID:MS#1 Calibration Date: 8/28/95 Time:1027

Lab File ID:AZ461 Init. Calib. Date(s): 8/28/95 8/28/95

Heated Purge: (Y/N) N Init. Calib. Times: 0855 1457

GC Column:RTX-502 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.538	0.566	0.010	5.2	
Bromomethane	1.353	1.342	0.100	0.8	25.0
Vinyl chloride	0.820	0.737	0.100	10.1	25.0
Chloroethane	0.816	0.803	0.010	1.6	
Methylene chloride	1.496	1.488	0.010	0.5	
Acetone	0.637	0.677	0.010	6.3	
Carbon Disulfide	3.528	3.478	0.010	1.4	
1,1-Dichloroethene	1.359	1.332	0.100	2.0	25.0
1,1-Dichloroethane	3.089	3.116	0.200	0.9	25.0
trans-1,2-Dichloroethene	1.528	1.511	0.010	1.1	
Chloroform	3.030	3.080	0.200	1.7	25.0
1,2-Dichloroethane	1.814	1.857	0.100	2.4	25.0
2-Butanone	0.640	0.701	0.010	9.5	
cis-1,2-Dichloroethene	1.528	1.511	0.010	1.1	
1,1,1-Trichloroethane	0.528	0.538	0.100	1.9	25.0
Carbon tetrachloride	0.473	0.477	0.100	0.8	25.0
Bromodichloromethane	0.635	0.649	0.200	2.2	25.0
1,2-Dichloropropane	0.462	0.463	0.010	0.2	
cis-1,3-Dichloropropene	0.574	0.580	0.200	1.0	25.0
Trichloroethene	0.399	0.403	0.300	1.0	25.0
Dibromochloromethane	0.500	0.519	0.100	3.8	25.0
1,1,2-Trichloroethane	0.311	0.322	0.100	3.5	25.0
Benzene	0.933	0.948	0.500	1.6	25.0
trans-1,3-Dichloropropene	0.406	0.412	0.100	1.5	25.0
Bromoform	0.352	0.379	0.100	7.7	25.0
4-Methyl-2-Pentanone	0.441	0.476	0.010	7.9	
2-Hexanone	0.303	0.327	0.010	7.9	
Tetrachloroethene	0.432	0.433	0.200	0.2	25.0
1,1,2,2-Tetrachloroethane	0.486	0.575	0.500	18.3	25.0
Toluene	0.725	0.715	0.400	1.4	25.0
Chlorobenzene	0.890	0.889	0.500	0.1	25.0
Ethylbenzene	1.540	1.558	0.100	1.2	25.0
Styrene	0.778	0.793	0.300	1.9	25.0
(m+p)Xylene	1.254	1.273	0.300	1.5	25.0
o-Xylene	1.254	1.273	0.300	1.5	25.0
Toluene-d8	1.219	1.186	0.010	2.7	
Bromofluorobenzene	0.794	0.799	0.200	0.6	25.0
1,2-Dichloroethane-d4	1.699	1.707	0.010	0.5	

All other compounds must meet a minimum RRF of 0.010

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Instrument ID:MS#5 Calibration Date: 8/28/95 Time:1229

Lab File ID:Q6483 Init. Calib. Date(s): 8/28/95 8/28/95

Heated Purge: (Y/N) N Init. Calib. Times: 1043 1430

GC Column:RTX-502 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.030	1.161	0.010	12.7	
Bromomethane	0.899	1.033	0.100	14.9	25.0
Vinyl chloride	1.028	1.193	0.100	16.1	25.0
Chloroethane	0.747	0.900	0.010	20.5	
Methylene chloride	1.284	1.500	0.010	16.8	
Acetone	0.718	0.860	0.010	19.8	
Carbon Disulfide	3.211	3.730	0.010	16.2	
1,1-Dichloroethene	1.108	1.292	0.100	16.6	25.0
1,1-Dichloroethane	2.640	3.124	0.200	18.3	25.0
trans-1,2-Dichloroethene	1.379	1.629	0.010	18.1	
Chloroform	2.783	3.221	0.200	15.7	25.0
1,2-Dichloroethane	1.768	2.080	0.100	17.6	25.0
2-Butanone	0.892	1.012	0.010	13.5	
cis-1,2-Dichloroethene	1.379	1.629	0.010	18.1	
1,1,1-Trichloroethane	0.530	0.612	0.100	15.5	25.0
Carbon tetrachloride	0.493	0.576	0.100	16.8	25.0
Bromodichloromethane	0.610	0.710	0.200	16.4	25.0
1,2-Dichloropropane	0.421	0.490	0.010	16.4	
cis-1,3-Dichloropropene	0.583	0.684	0.200	17.3	25.0
Trichloroethene	0.428	0.502	0.300	17.3	25.0
Dibromochloromethane	0.552	0.657	0.100	19.0	25.0
1,1,2-Trichloroethane	0.344	0.403	0.100	17.2	25.0
Benzene	0.966	1.128	0.500	16.8	25.0
trans-1,3-Dichloropropene	0.421	0.495	0.100	17.6	25.0
Bromoform	0.401	0.478	0.100	19.2	25.0
4-Methyl-2-Pentanone	0.563	0.674	0.010	19.7	
2-Hexanone	0.385	0.471	0.010	22.3	
Tetrachloroethene	0.428	0.500	0.200	16.8	25.0
1,1,2,2-Tetrachloroethane	0.744	0.876	0.500	17.7	25.0
Toluene	1.199	1.379	0.400	15.0	25.0
Chlorobenzene	0.941	1.099	0.500	16.8	25.0
Ethylbenzene	0.428	0.503	0.100	17.5	25.0
Styrene	0.924	1.089	0.300	17.9	25.0
(m+p)Xylene	0.552	0.655	0.300	18.7	25.0
o-Xylene	0.552	0.655	0.300	18.7	25.0
Toluene-d8	1.102	1.107	0.010	0.5	
Bromofluorobenzene	0.676	0.680	0.200	0.6	25.0
1,2-Dichloroethane-d4	1.701	1.748	0.010	2.8	

All other compounds must meet a minimum RRF of 0.010

/A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Instrument ID:MS#5 Calibration Date: 8/28/95 Time:2122

Lab File ID:Q6493 Init. Calib. Date(s): 8/28/95 8/28/95

Heated Purge: (Y/N) N Init. Calib. Times: 1043 1430

GC Column:RTX-502 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.030	1.130	0.010	9.7	
Bromomethane	0.899	1.088	0.100	21.0	25.0
Vinyl chloride	1.028	1.238	0.100	20.4	25.0
Chloroethane	0.747	0.898	0.010	20.2	
Methylene chloride	1.284	1.452	0.010	13.1	
Acetone	0.718	0.803	0.010	11.8	
Carbon Disulfide	3.211	3.701	0.010	15.3	
1,1-Dichloroethene	1.108	1.289	0.100	16.3	25.0
1,1-Dichloroethane	2.640	3.104	0.200	17.6	25.0
trans-1,2-Dichloroethene	1.379	1.634	0.010	18.5	
Chloroform	2.783	3.173	0.200	14.0	25.0
1,2-Dichloroethane	1.768	2.074	0.100	17.3	25.0
2-Butanone	0.892	0.953	0.010	6.8	
cis-1,2-Dichloroethene	1.379	1.634	0.010	18.5	
1,1,1-Trichloroethane	0.530	0.625	0.100	17.9	25.0
Carbon tetrachloride	0.493	0.585	0.100	18.7	25.0
Bromodichloromethane	0.610	0.716	0.200	17.4	25.0
1,2-Dichloropropane	0.421	0.501	0.010	19.0	
cis-1,3-Dichloropropene	0.583	0.694	0.200	19.0	25.0
Trichloroethene	0.428	0.504	0.300	17.8	25.0
Dibromochloromethane	0.552	0.659	0.100	19.4	25.0
1,1,2-Trichloroethane	0.344	0.412	0.100	19.8	25.0
Benzene	0.966	1.130	0.500	17.0	25.0
trans-1,3-Dichloropropene	0.421	0.498	0.100	18.3	25.0
Bromoform	0.401	0.471	0.100	17.5	25.0
4-Methyl-2-Pentanone	0.563	0.627	0.010	11.4	
2-Hexanone	0.385	0.424	0.010	10.1	
Tetrachloroethene	0.428	0.467	0.200	9.1	25.0
1,1,2,2-Tetrachloroethane	0.744	0.824	0.500	10.8	25.0
Toluene	1.199	1.335	0.400	11.3	25.0
Chlorobenzene	0.941	1.078	0.500	14.6	25.0
Ethylbenzene	0.428	0.482	0.100	12.6	25.0
Styrene	0.924	1.047	0.300	13.3	25.0
(m+p)Xylene	0.552	0.629	0.300	13.9	25.0
o-Xylene	0.552	0.629	0.300	13.9	25.0
Toluene-d8	1.102	1.037	0.010	5.9	
Bromofluorobenzene	0.676	0.648	0.200	4.1	25.0
1,2-Dichloroethane-d4	1.701	1.704	0.010	0.2	

All other compounds must meet a minimum RRF of 0.010

Operator ID: RODH Quant Rev: 7 Quant Time: 950828 09:57
Data Out File: ^Q6493::D5 Injected at: 950828 21:22
Data File: >Q6493::D5 Dilution Factor: 1.00000
Name: CAL. CHECK Instrument ID: 1
Misc: 91-1

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

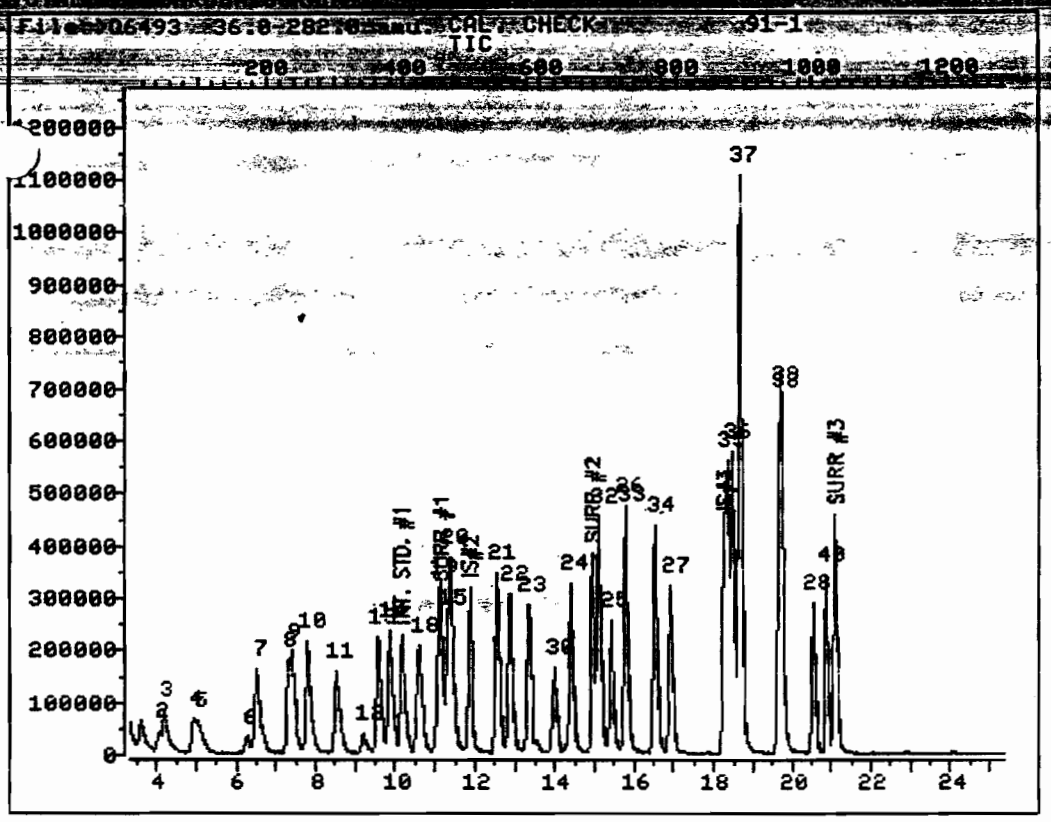
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.14	128.0	223925	50.00	ppb	97
2)	Chloromethane	4.06	50.0	253078	48.69	ppb	95
3)	Vinyl chloride	4.18	62.0	277332	51.91	ppb	73
4)	Bromomethane	4.93	94.0	243578	52.65	ppb	98
5)	Chloroethane	5.05	64.0	201116	49.89	ppb	99
6)	Acetone	6.27	43.0	179783	46.70	ppb	91
7)	1,1-Dichloroethene	6.51	96.0	288574	49.87	ppb	91
8)	Methylene chloride	7.27	84.0	325099	48.41	ppb	90
9)	Carbon Disulfide	7.37	76.0	828752	49.61	ppb	98
10)	trans-1,2-Dichloroethene	7.80	96.0	343459	47.08	ppb	92
11)	1,1-Dichloroethane	8.51	63.0	695001	49.67	ppb	97
12)	2-Butanone	9.23	43.0	213495	47.12	ppb	92
13)	cis-1,2-Dichloroethene	9.56	96.0	388421	53.24	ppb	92
)	Chloroform	9.85	83.0	710416	49.24	ppb	98
15)	1,2-Dichloroethane	11.31	62.0	464448	49.87	ppb	98
16)	1,2-Dichloroethane-d4	11.14	65.0	381648	48.74	ppb	93
17)	*1,4-Difluorobenzene	11.86	114.0	950197	50.00	ppb	85
18)	1,1,1-Trichloroethane	10.60	97.0	593754	51.09	ppb	95
19)	Carbon tetrachloride	11.10	117.0	555996	50.78	ppb	98
20)	Benzene	11.38	78.0	1074130	50.11	ppb	94
21)	Trichloroethene	12.55	130.0	479053	50.17	ppb	95
22)	1,2-Dichloropropane	12.87	63.0	476388	51.14	ppb	93
23)	Bromodichloromethane	13.32	83.0	679896	50.41	ppb	98
24)	cis-1,3-Dichloropropene	14.39	75.0	659025	50.73	ppb	96
25)	trans-1,3-Dichloropropene	15.40	75.0	473221	50.33	ppb	96
26)	1,1,2-Trichloroethane	15.76	97.0	391395	51.06	ppb	95
27)	Dibromochloromethane	16.91	129.0	626514	50.20	ppb	97
28)	Bromoform	20.52	173.0	447439	49.27	ppb	93
29)	*Chlorobenzene-d5	18.25	117.0	854283	50.00	ppb	95
30)	4-Methyl-2-Pentanone	13.97	43.0	535775	46.56	ppb	89
31)	Toluene-d8	14.94	98.0	885950	46.83	ppb	87
32)	Toluene	15.11	91.0	1140626	48.42	ppb	96
33)	2-Hexanone	15.78	43.0	361932	44.94	ppb	97
34)	Tetrachloroethene	16.54	164.0	398976	46.69	ppb	94
35)	Chlorobenzene	18.34	112.0	920723	49.05	ppb	93
36)	Ethylbenzene	18.46	106.0	412057	47.96	ppb	92
37)	(m+p)Xylene	18.65	106.0	1103652	98.59	ppb	96
38)	o-Xylene	19.68	106.0	537316	48.00	ppb	93
)	Styrene	19.73	104.0	894797	48.07	ppb	95
40)	1,1,2,2-Tetrachloroethane	20.88	83.0	704266	47.07	ppb	97

Operator ID: RODH Quant Rev: 7 Quant Time: 950828 09:57
Output File: Q6493::D5 Injected at: 950828 21:22
Data File: >Q6493::D5 Dilution Factor: 1.00000
Name: CAL. CHECK Instrument ID: 1
Misc: 91-1

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	Bromofluorobenzene	21.11	95.0	553902	47.67	ppb	89

* Compound is ISTD



Data File: >Q6493::D5 Quant Output File: ^Q6493::D5
Name: CAL. CHECK Instrument ID: 1
Misc: 91-1

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

Operator ID: RODH
Quant Time : 950828 09:57
Injected at: 950828 21:22

/A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Instrument ID:MS#5 Calibration Date: 8/29/95 Time:0842

Lab File ID:Q6508 Init. Calib. Date(s): 8/28/95 8/28/95

Heated Purge: (Y/N) N Init. Calib. Times: 1043 1430

GC Column:RTX-502 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.030	1.089	0.010	5.7	
Bromomethane	0.899	1.019	0.100	13.3	25.0
Vinyl chloride	1.028	1.125	0.100	9.4	25.0
Chloroethane	0.747	0.836	0.010	11.9	
Methylene chloride	1.284	1.397	0.010	8.8	
Acetone	0.718	0.759	0.010	5.7	
Carbon Disulfide	3.211	3.417	0.010	6.4	
1,1-Dichloroethene	1.108	1.189	0.100	7.3	25.0
1,1-Dichloroethane	2.640	2.838	0.200	7.5	25.0
trans-1,2-Dichloroethene	1.379	1.485	0.010	7.7	
Chloroform	2.783	2.899	0.200	4.2	25.0
1,2-Dichloroethane	1.768	1.869	0.100	5.7	25.0
2-Butanone	0.892	0.892	0.010	0.0	
cis-1,2-Dichloroethene	1.379	1.485	0.010	7.7	
1,1,1-Trichloroethane	0.530	0.560	0.100	5.7	25.0
Carbon tetrachloride	0.493	0.515	0.100	4.5	25.0
Bromodichloromethane	0.610	0.641	0.200	5.1	25.0
1,2-Dichloropropane	0.421	0.444	0.010	5.5	
cis-1,3-Dichloropropene	0.583	0.617	0.200	5.8	25.0
Trichloroethene	0.428	0.453	0.300	5.8	25.0
Dibromochloromethane	0.552	0.564	0.100	2.2	25.0
1,1,2-Trichloroethane	0.344	0.366	0.100	6.4	25.0
Benzene	0.966	1.020	0.500	5.6	25.0
trans-1,3-Dichloropropene	0.421	0.438	0.100	4.0	25.0
Bromoform	0.401	0.431	0.100	7.5	25.0
4-Methyl-2-Pentanone	0.563	0.559	0.010	0.7	
2-Hexanone	0.385	0.387	0.010	0.5	
Tetrachloroethene	0.428	0.419	0.200	2.1	25.0
1,1,2,2-Tetrachloroethane	0.744	0.743	0.500	0.1	25.0
Toluene	1.199	1.180	0.400	1.6	25.0
Chlorobenzene	0.941	0.997	0.500	6.0	25.0
Ethylbenzene	0.428	0.450	0.100	5.1	25.0
Styrene	0.924	0.943	0.300	2.1	25.0
(m+p)Xylene	0.552	0.566	0.300	2.5	25.0
o-Xylene	0.552	0.566	0.300	2.5	25.0
Toluene-d8	1.102	1.030	0.010	6.5	
Bromofluorobenzene	0.676	0.661	0.200	2.2	25.0
1,2-Dichloroethane-d4	1.701	1.715	0.010	0.8	

All other compounds must meet a minimum RRF of 0.010

00333

QUANT REPORT

Operator ID: [illegible] Quant Rev.: 7 Quant Time: 950828 21:15

Data [illegible] Dilution Factor: 1.00000

Name: CC CHECK Instrument ID: 1

[illegible]

ID File: [illegible]OT

Title: Volatile Organics on MS#5

Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.07	128.0	217422	50.00	ppb	97
2)	Chloromethane	4.04	50.0	236855	48.19	ppb	96
3)	Vinyl chloride	4.14	62.0	244501	45.40	ppb	73
4)	Bromomethane	4.90	94.0	221483	46.82	ppb	94
5)	Chloroethane	5.02	64.0	181860	46.57	ppb	96
6)	Acetone	6.22	43.0	164924	47.24	ppb	89
7)	1,1-Dichloroethene	6.45	96.0	258513	46.13	ppb	92
8)	Methylene chloride	7.22	84.0	303705	48.11	ppb	88
9)	Carbon Disulfide	7.31	76.0	742977	46.17	ppb	97
10)	trans-1,2-Dichloroethene	7.74	96.0	302991	42.64	ppb	95
11)	1,1-Dichloroethane	8.44	63.0	616946	45.71	ppb	97
12)	2-Butanone	9.14	43.0	193867	46.76	ppb	88
13)	cis-1,2-Dichloroethene	9.51	96.0	342616	48.21	ppb	88
14)	Chloroform	9.78	83.0	630239	45.68	ppb	97
15)	1,2-Dichloroethane	11.24	62.0	406303	45.05	ppb	94
16)	1,2-Dichloroethane-d4	11.07	65.0	372816	50.30	ppb	92
	*1,4-Difluorobenzene	11.79	114.0	931459	50.00	ppb	84
18)	1,1,1-Trichloroethane	10.54	97.0	521518	44.80	ppb	94
19)	Carbon tetrachloride	11.04	117.0	479820	44.02	ppb	98
20)	Benzene	11.33	78.0	949651	45.09	ppb	95
21)	Trichloroethene	12.50	130.0	421808	44.91	ppb	96
22)	1,2-Dichloropropane	12.82	63.0	413327	44.25	ppb	90
23)	Bromodichloromethane	13.27	83.0	597010	44.79	ppb	99
24)	cis-1,3-Dichloropropene	14.35	75.0	574704	44.48	ppb	96
25)	trans-1,3-Dichloropropene	15.38	75.0	408180	44.00	ppb	97
26)	1,1,2-Trichloroethane	15.75	97.0	340875	44.42	ppb	96
27)	Dibromochloromethane	16.90	129.0	525730	42.80	ppb	97
28)	Bromoform	20.47	173.0	401776	45.80	ppb	95
29)	*Chlorobenzene-d5	18.24	117.0	829289	50.00	ppb	97
30)	4-Methyl-2-Pentanone	13.94	43.0	463661	44.57	ppb	86
31)	Toluene-d8	14.90	98.0	853955	49.65	ppb	90
32)	Toluene	15.08	91.0	978234	44.17	ppb	98
33)	2-Hexanone	15.76	43.0	320750	45.65	ppb	96
34)	Tetrachloroethene	16.52	164.0	347151	44.82	ppb	95
35)	Chlorobenzene	18.32	112.0	826807	46.25	ppb	92
36)	Ethylbenzene	18.44	106.0	373386	46.67	ppb	90
37)	(m+p)Xylene	18.62	106.0	975622	93.52	ppb	98
38)	o-Xylene	19.63	106.0	469199	44.98	ppb	95
39)	Styrene	19.70	104.0	781859	45.01	ppb	95
40)	1,1,2,2-Tetrachloroethane	20.83	83.0	615924	45.05	ppb	98

Data File: >Q6508::D5 Dilution Factor: 1.00000

Instrument ID: 4

M : IDECLP

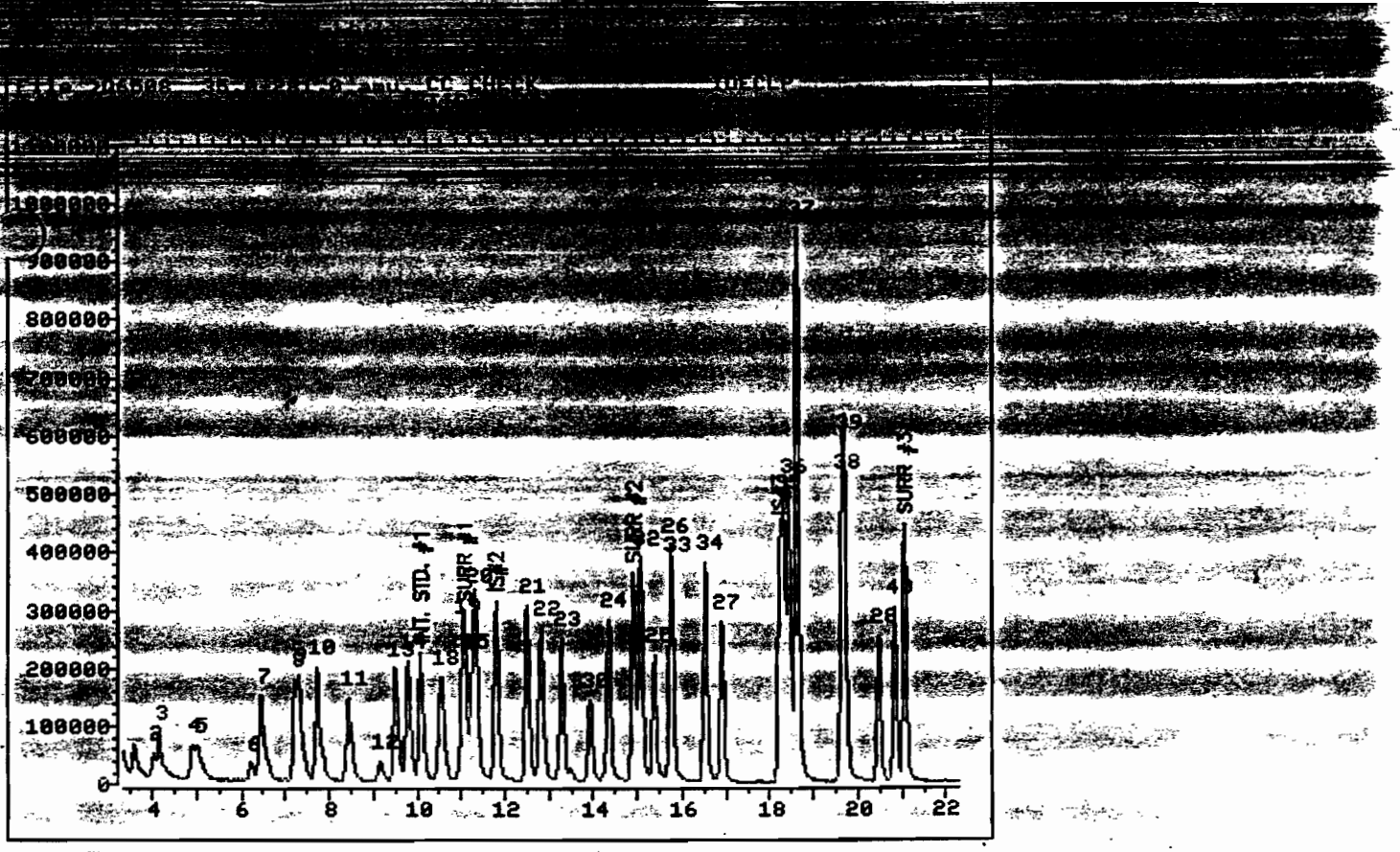
ID File: IDECLP::QT

Title: Volatile Organics on MS#5

Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	Bromofluorobenzene	21.06	95.0	548541	51.01	ppb	89

* Compound is ISTD



Data File: >Q6508::D5 Quant Output File: ^Q6508::D5
Name: CC CHECK Instrument ID: 1
Misc: IDECLP

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: TOMT
Quant Time : 950828 21:15
Injected at: 950829 08:42

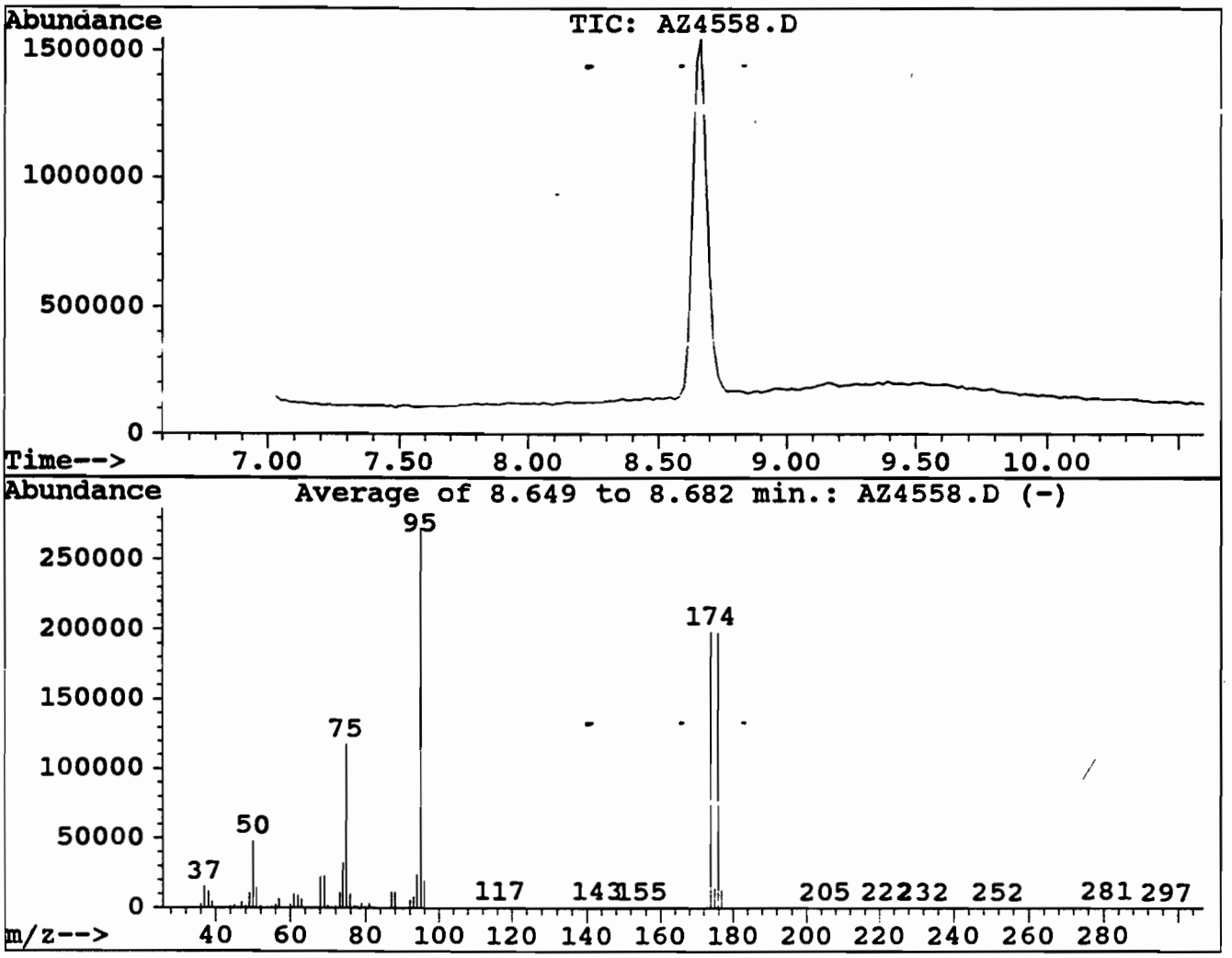
RAW Q.C. DATA

BFB

Data File : C:\HPCHEM\1\DATA\AZ4558.D
Acq On : ~~26 Aug 95~~ 8:15 am 28 Aug 95
Sample : TUNE CHECK (DL) 9/5/95
Misc : 91-1 ASP

Vial: 1
Operator: TOMT
Inst : 5970 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TUNE1.M
Title :



Peak Apex is scan: 94

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	47975	PASS
75	95	30	60	43.1	117846	PASS
95	95	100	100	100.0	273136	PASS
96	95	5	9	7.3	19894	PASS
173	174	0	2	0.6	1122	PASS
174	95	50	100	72.8	198909	PASS
175	174	5	9	7.4	14784	PASS
176	174	95	101	99.6	198201	PASS
177	176	5	9	6.7	13249	PASS

00337

AZ4558.D TUNE1.M Sat Aug 26 08:34:39 1995 GENERALT

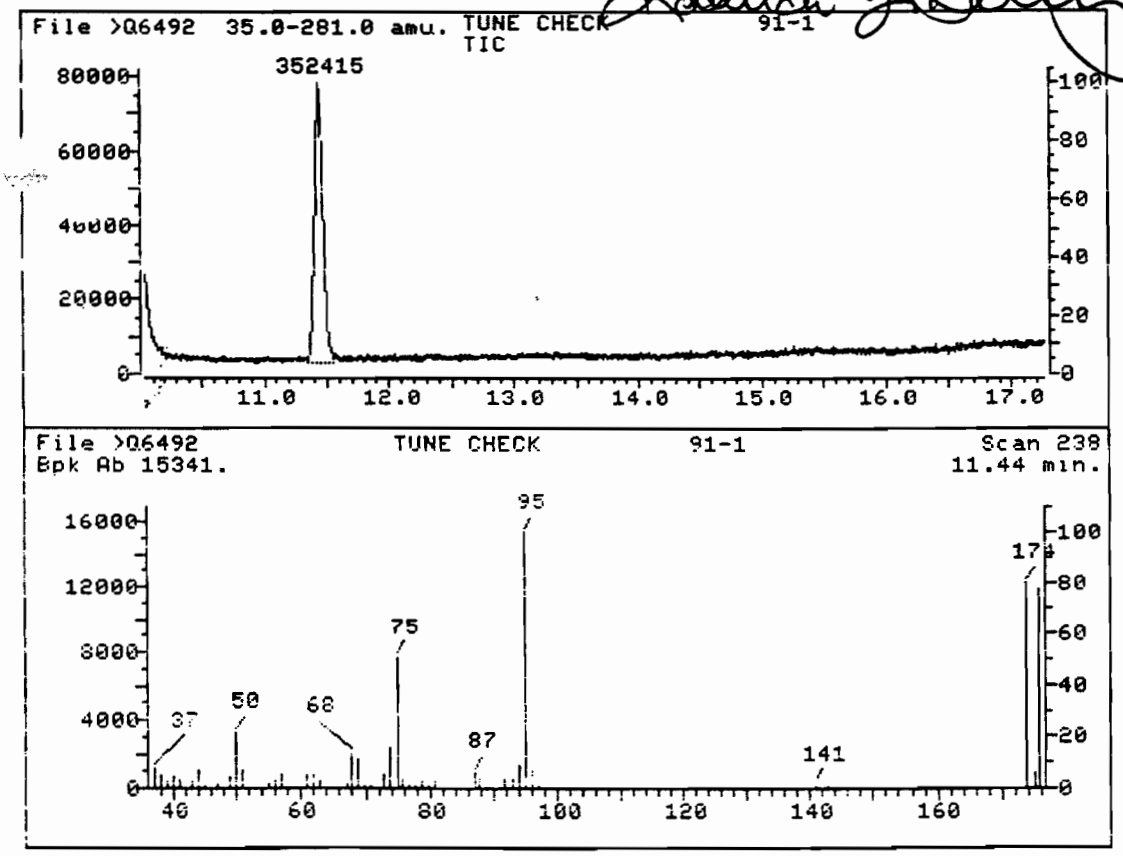
GC/MS PERFORMANCE STANDARD

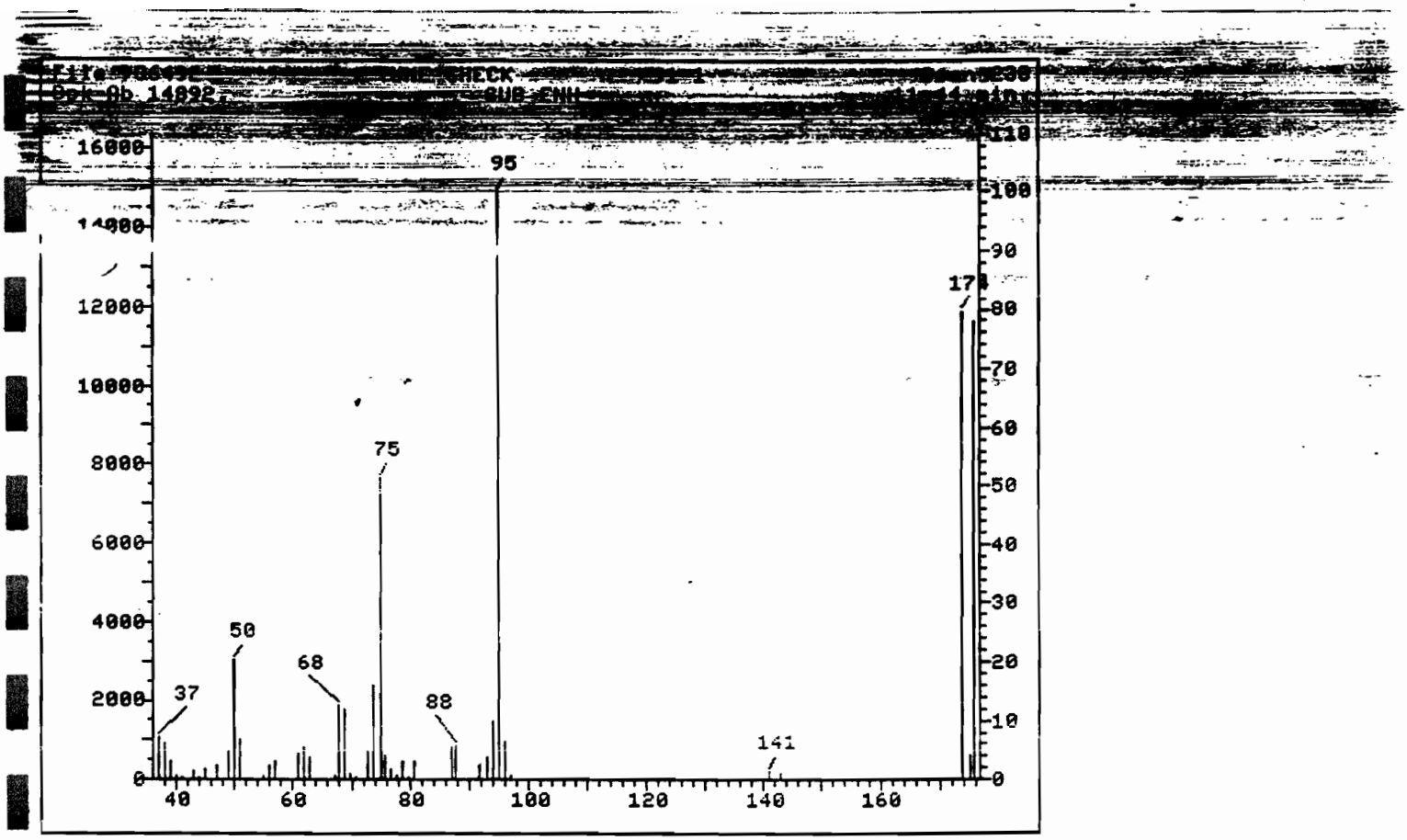
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	20.27	20.27	Ok
75	30-60% of mass 95	51.36	51.36	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.37	6.37	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	50-120% of mass 95	79.64	79.64	Ok
175	5-9% of mass 174	4.20	5.27	Ok
176	95-101% of mass 174	77.81	97.70	Ok
177	5-9% of mass 176	5.37	6.89	Ok

Injection Date: 08/28/95
Injection Time: 20:42
Data File: >Q6492
Scan: 238

Roderick J. Deering





>Q6492 TUNE CHECK 91-1
238 SUB ENH

File: >Q6492 Scan #: 238 Retn. time: 11.44

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.05	210.0	48.95	700.3	68.00	1870.3	77.95	109.3	95.05	14892.3
37.00	1057.0	49.95	3019.3	68.95	1768.7	78.80	472.0	95.95	948.0
37.90	911.0	50.95	998.0	69.95	179.7	79.90	56.0	97.05	113.7
39.00	442.3	54.95	94.7	70.95	52.3	80.80	458.0	140.75	201.3
40.00	119.3	55.95	341.0	72.95	730.3	87.00	806.7	142.90	171.7
41.00	70.0	57.05	450.3	73.95	2357.0	87.90	851.3	173.85	11860.7
43.10	191.3	61.00	689.7	75.05	7648.3	91.85	383.7	174.95	625.3
44.00	61.0	62.00	796.7	75.95	625.7	92.95	582.7	175.85	11588.3
45.00	242.7	62.90	551.0	76.95	259.3	93.95	1492.3	176.85	799.0
47.00	351.3	67.20	137.0						

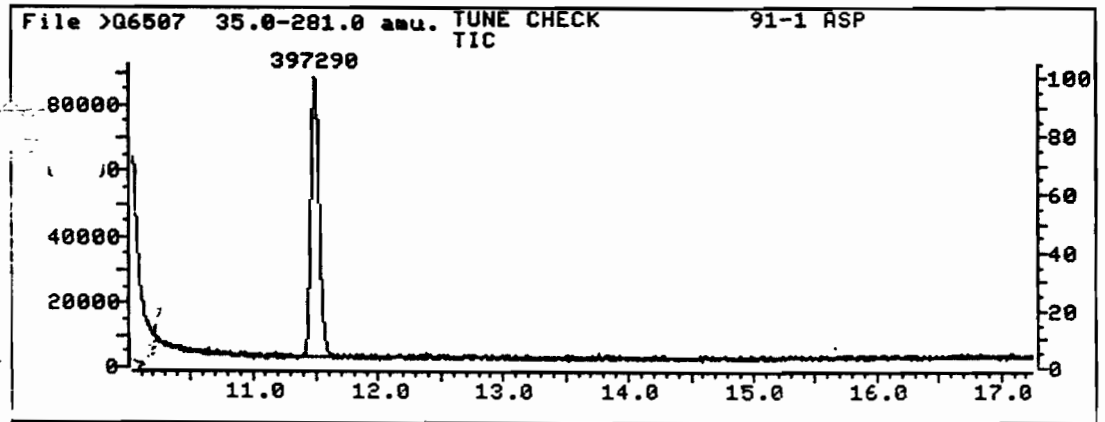
GC/MS PERFORMANCE STANDARD

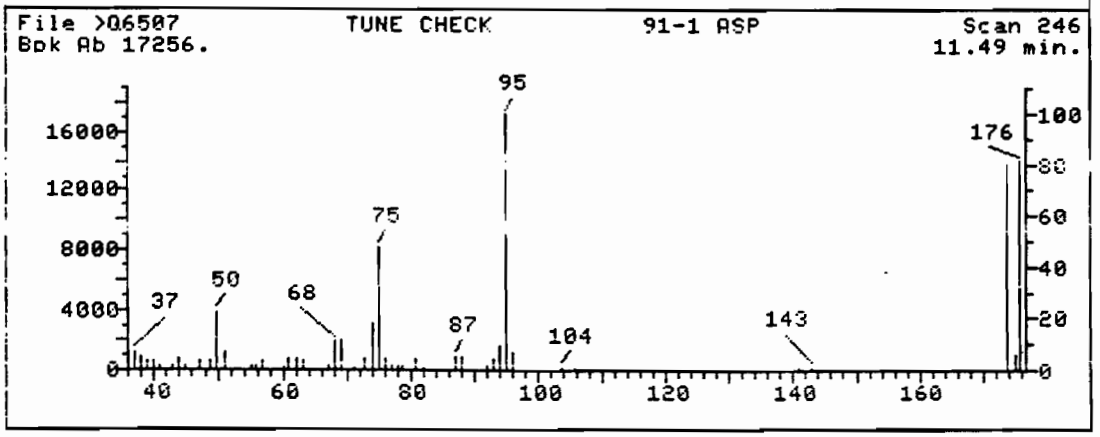
Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	Relative Abundance Base Peak	Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	23.24	23.24	Ok
75	30-60% of mass 95	49.02	49.02	Ok
95	Base peak; 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.93	6.93	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	50-120% of mass 95	81.74	81.74	Ok
175	5-9% of mass 174	5.88	7.20	Ok
176	95-101% of mass 174	80.67	98.68	Ok
177	5-9% of mass 176	5.58	6.91	Ok

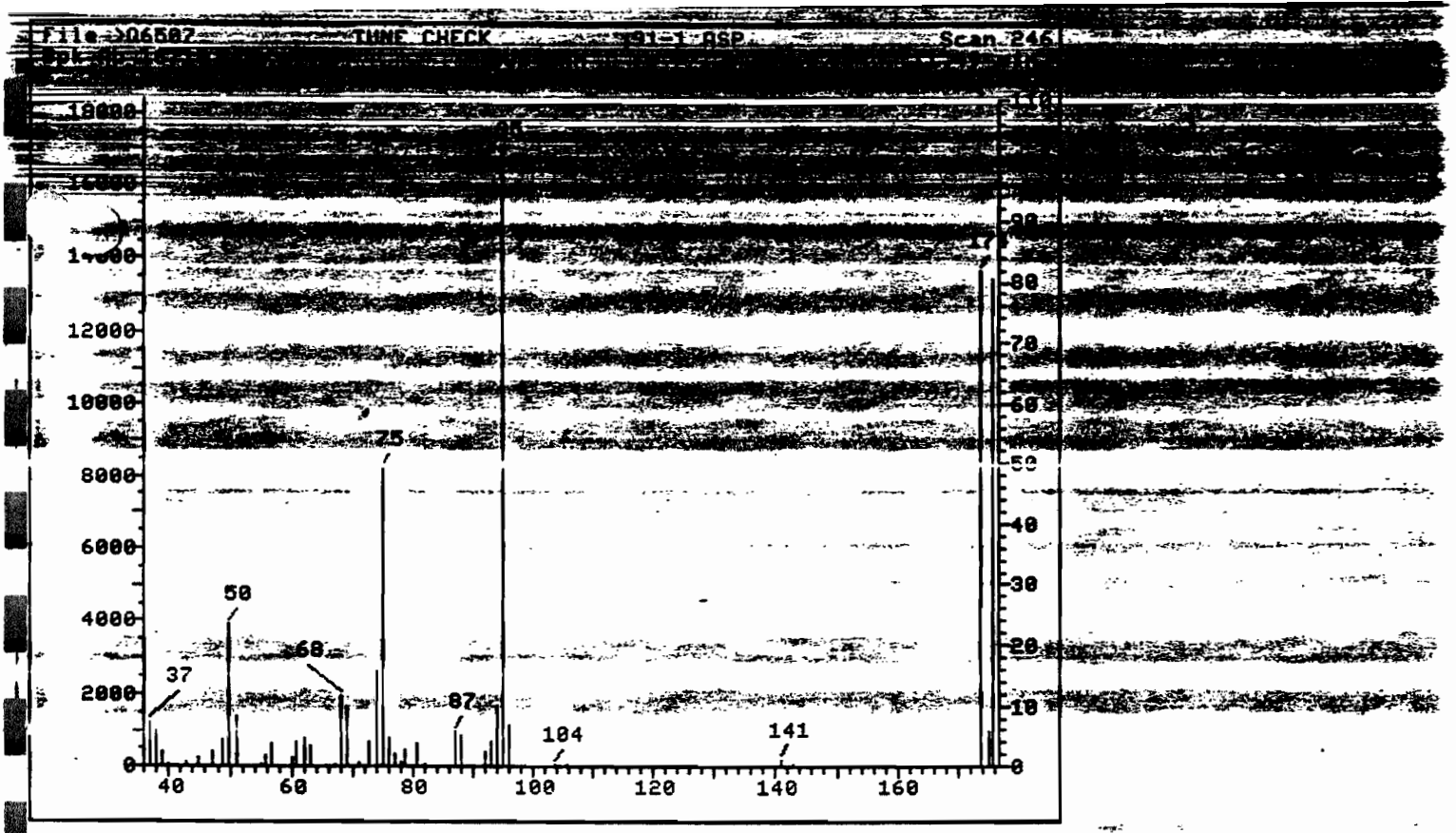
Injection Date: 08/29/95
Injection Time: 08:00
Data File: >Q6507
Scan: 246

Leonard D. Dan





00339A



>Q6507 TUNE CHECK 91-1 ASP
246 SUB ENH

File: >Q6507 Scan #: 246 Retn. time: 11.49

.../z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	221.7	49.95	3886.0	68.00	1958.7	78.80	464.0	95.95	1158.0
37.00	1211.3	51.05	1369.0	68.95	1666.0	80.80	645.0	103.70	69.0
38.00	980.0	55.05	67.0	70.95	122.3	81.90	66.3	105.80	54.3
39.00	425.0	55.95	318.0	72.85	672.3	87.00	965.7	140.85	200.0
40.00	76.0	56.95	624.0	73.95	2610.0	87.90	838.7	142.80	72.7
41.00	4.7	60.00	214.0	74.95	8196.0	92.05	419.3	173.85	13666.0
42.90	103.7	60.90	708.3	75.95	797.0	92.95	695.0	174.95	983.3
44.90	236.3	62.00	830.7	77.05	325.7	93.95	1659.7	175.85	13486.0
47.00	421.7	63.00	579.3	77.95	154.3	94.95	16718.0	176.85	932.3
48.95	757.3	67.10	85.3						

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK1

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6486

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK1

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6486

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

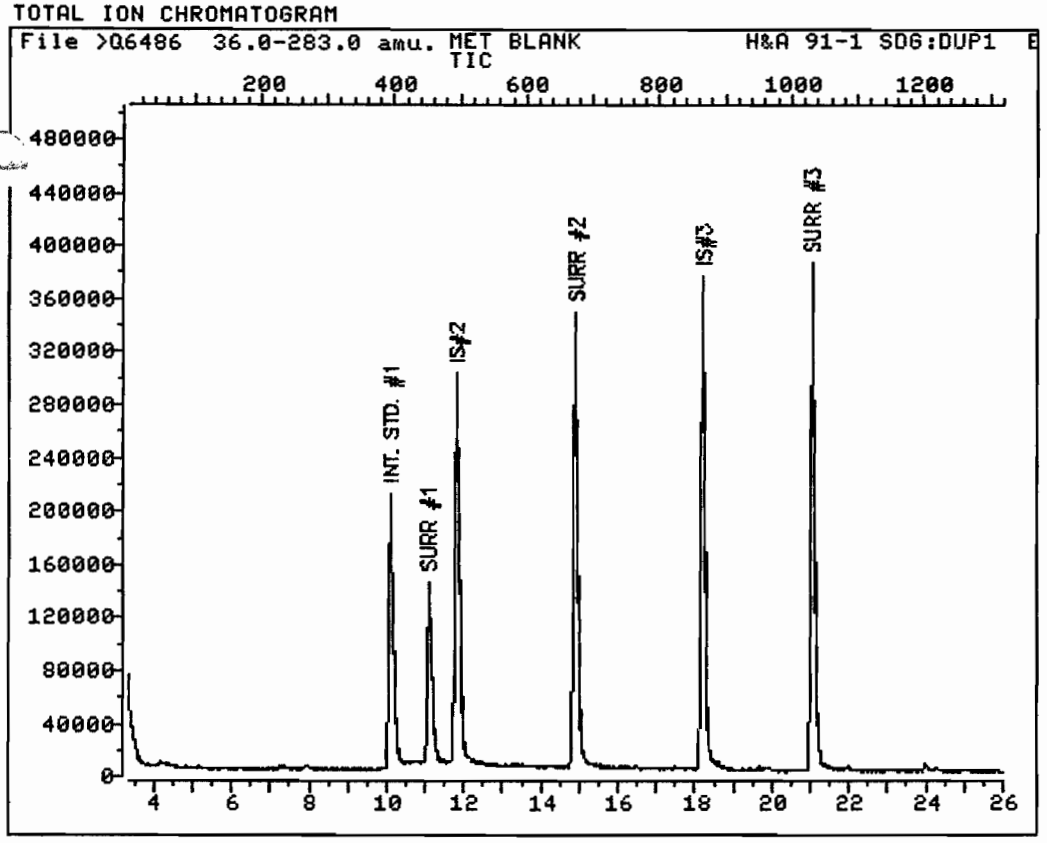
Operator ID: TOMT Quant Rev: 7 Quant Time: 950828 04:37
Output File: ^Q6486::D5 Injected at: 950828 15:49
Data File: >Q6486::D5 Dilution Factor: 1.00000
Name: MET BLANK Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:VBLK

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.10	128.0	212091	50.00	ppb	97
16)	1,2-Dichloroethane-d4	11.08	65.0	341930	46.11	ppb	91
17)	*1,4-Difluorobenzene	11.80	114.0	908510	50.00	ppb	83
29)	*Chlorobenzene-d5	18.19	117.0	784314	50.00	ppb	96
31)	Toluene-d8	14.90	98.0	827895	47.66	ppb	89
41)	Bromofluorobenzene	21.03	95.0	527192	49.42	ppb	89

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >Q6486::D5 Quant Output File: ^Q6486::D5
Name: MET BLANK Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:VBLK

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 12:29

Operator ID: TOMT
Quant Time : 950828 04:37
Injected at: 950828 15:49

MS data file header from : >Q6486::D5

Sample: MET BLANK Operator: TOMT 8/28/95 15:49
Misc : H&A 91-1 SDG:DUP1 EPA:VBLK
Inst. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

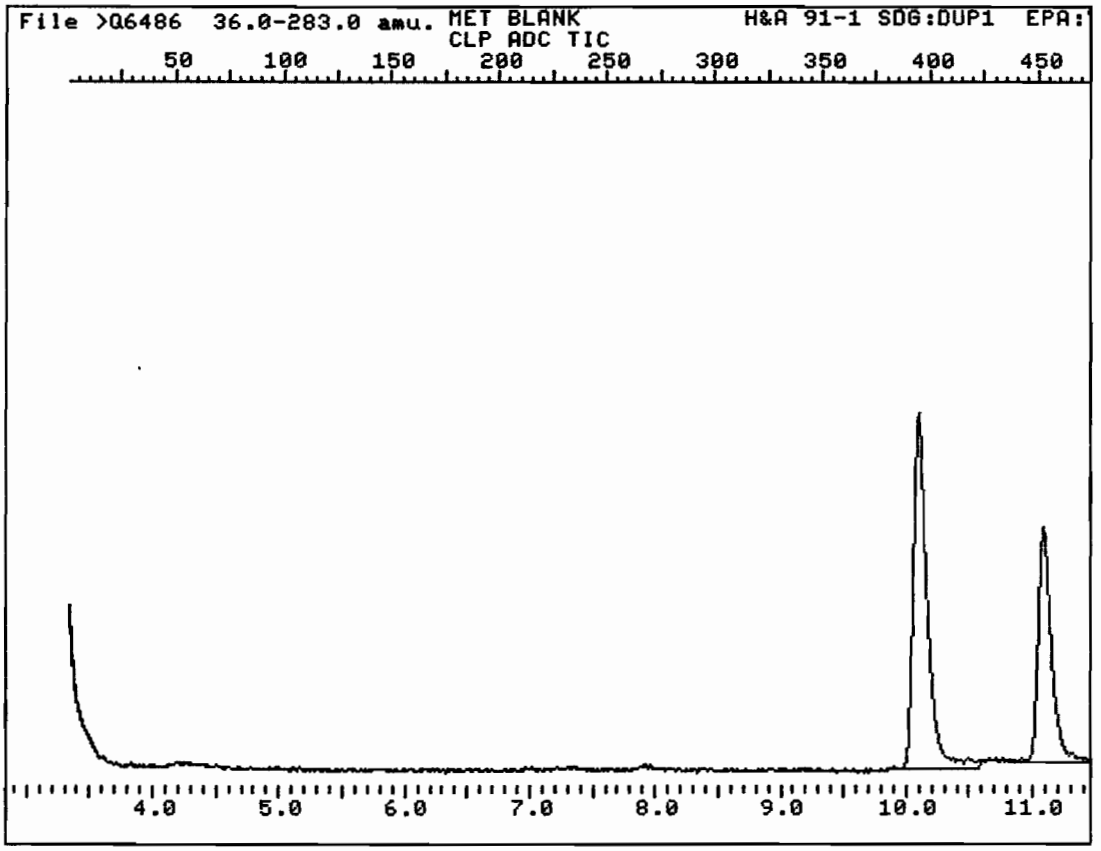
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1559391.	10.10	3.34 - 10.95
2	50.0	2169283.	11.80	10.95 - 15.00
3	50.0	2422429.	18.19	15.00 - 26.01

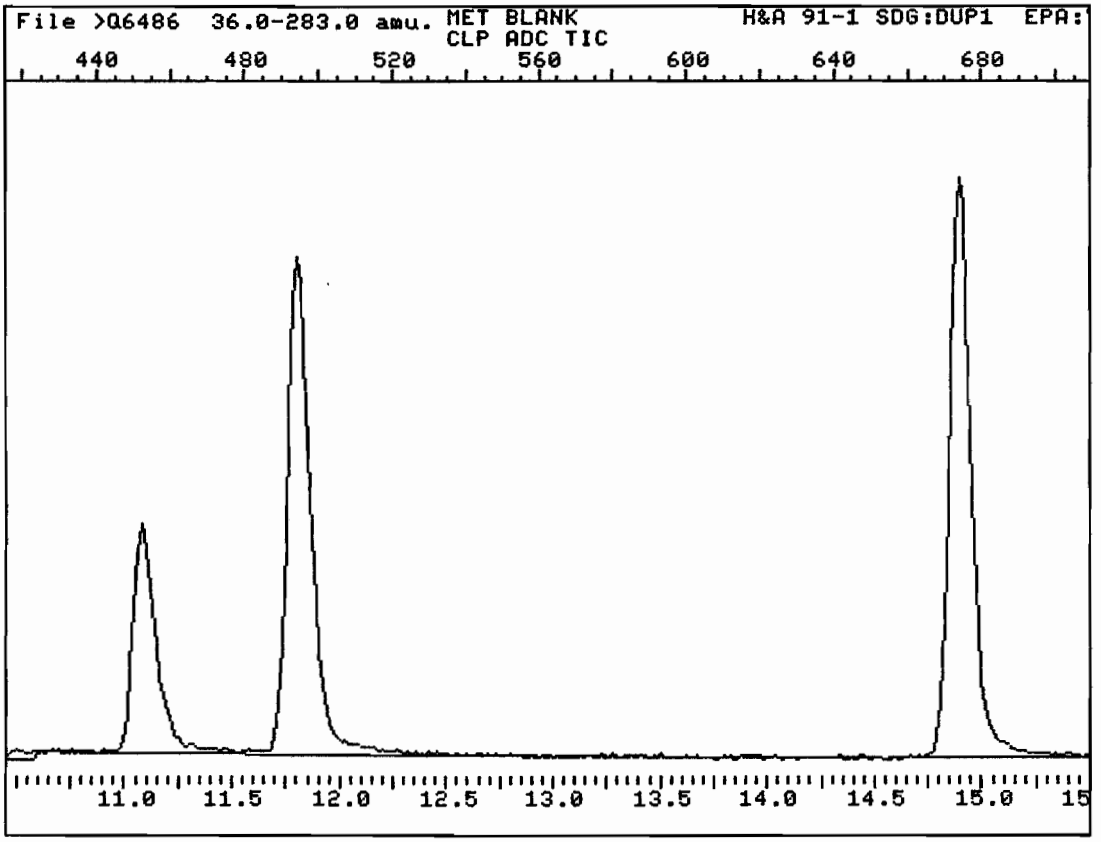
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

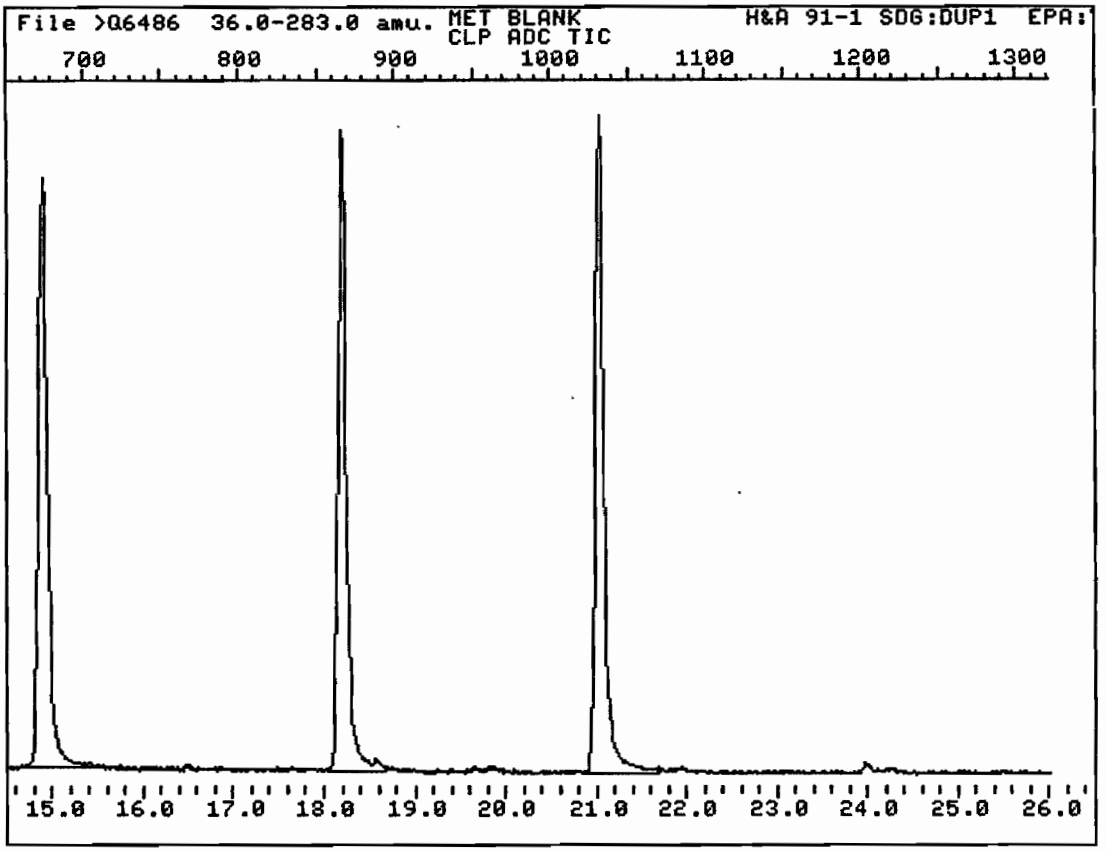
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

11:15 AM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/28/95 15:49



Instrument ID: 1 Analyzed on: 8/28/95 15:49

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: AZ469

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	1.	J
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: AZ469

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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27.					
28.					
29.					
30.					

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ469.D Vial: 1
Acq On : ~~26 Aug 95~~ 5:32 pm 28 Aug 95 Operator: RODH
Sample : METHOD BLANK Inst : 5970 - In
Misc : HA 91-1 SDG:DUP1 EPA:VBLK Multiplr: 1.00
Quant Time: Sep 1 13:52 1995

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sun Aug 27 10:23:41 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	8.96	128	353407	50.00	ug/l	0.02
17) 1,4-Difluorobenzene	11.74	114	1466686	50.00	ug/l	0.04
29) Chlorobenzene-d5	18.62	117	1115357	50.00	ug/l	0.11
System Monitoring Compounds						%Recovery
15) 1,2-Dichloroethane-d4	10.03	65	616897	51.12	ug/l	102.24%
31) Toluene-d8	15.47	98	1192452	45.07	ug/l	90.14%
41) Bromofluorobenzene	21.42	95	902987	50.69	ug/l	101.39%
Target Compounds						Qvalue
2) Chloromethane	0.00	50		Not Detected		
3) Vinyl chloride	0.00	62		Not Detected		
4) Chloroethane	0.00	64		Not Detected		
5) Bromomethane	0.00	94		Not Detected		
6) Acetone	0.00	43		Not Detected		
7) 1,1-Dichloroethene	0.00	96		Not Detected		
8) Methylene chloride	6.07	84	11764	1.12	ug/l	93
9) Carbon disulfide	0.00	76		Not Detected		
10) trans-1,2-Dichloroethene	0.00	96		Not Detected		
11) 1,1-Dichloroethane	0.00	63		Not Detected		
12) 2-Butanone (MEK)	0.00	43		Not Detected		
13) cis-1,2-Dichloroethene	0.00	96		Not Detected		
14) Chloroform	0.00	83		Not Detected		
16) 1,2-Dichloroethane	0.00	62		Not Detected		
18) 1,1,1-Trichloroethane	0.00	97		Not Detected		
19) Carbon tetrachloride	0.00	117		Not Detected		
20) Benzene	0.00	78		Not Detected		
21) Trichloroethene	0.00	130		Not Detected		
22) 1,2-Dichloropropane	0.00	63		Not Detected		
23) Bromodichloromethane	0.00	83		Not Detected		
24) cis-1,3-Dichloropropene	0.00	75		Not Detected		
25) trans-1,3-Dichloropropene	0.00	75		Not Detected		
26) 1,1,2-Trichloroethane	0.00	97		Not Detected		
27) Dibromochloromethane	0.00	129		Not Detected		
28) Bromoform	0.00	173		Not Detected		
30) 4-Methyl-2-pentanone (MIB	0.00	43		Not Detected		
32) Toluene	0.00	92		Not Detected		
33) 2-Hexanone	0.00	43		Not Detected		
34) Tetrachloroethene	0.00	164		Not Detected		
35) Chlorobenzene	0.00	112		Not Detected		
36) Ethylbenzene	0.00	91		Not Detected		
37) (m+p)Xylene	0.00	91		Not Detected		
38) o-Xylene	0.00	91		Not Detected		
39) Styrene	0.00	104		Not Detected		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AZ469.D
Acq On : ~~26 Aug 95~~ 5:32 pm 28 Aug 95 (DL) 9/5/95
Sample : METHOD BLANK
Misc : HA 91-1 SDG:DUP1 EPA:VBLK
Quant Time: Sep 1 13:52 1995

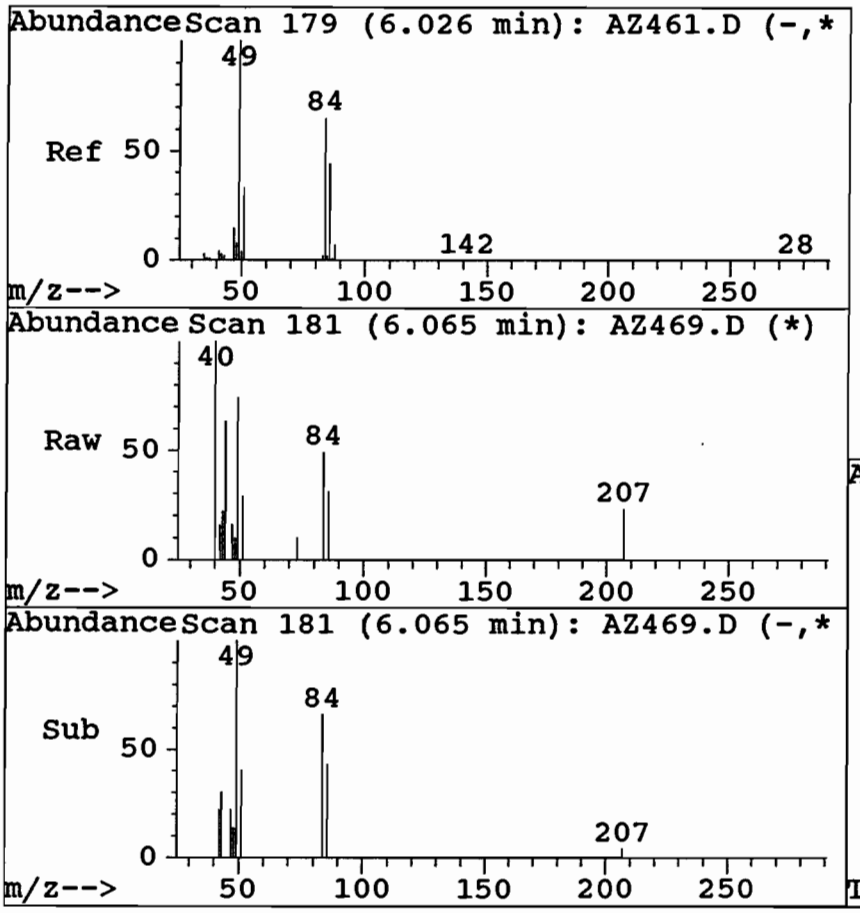
Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sun Aug 27 10:23:41 1995
Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	

00350

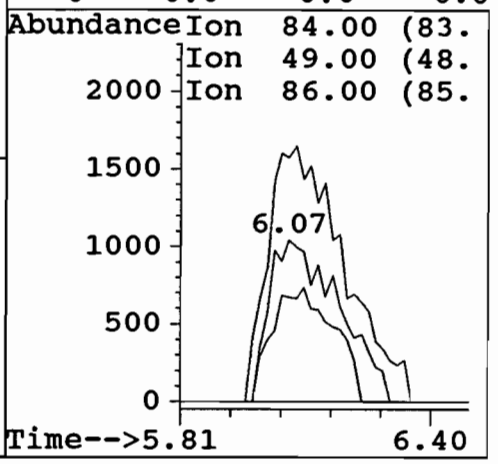
(#) = qualifier out of range (m) = manual integration

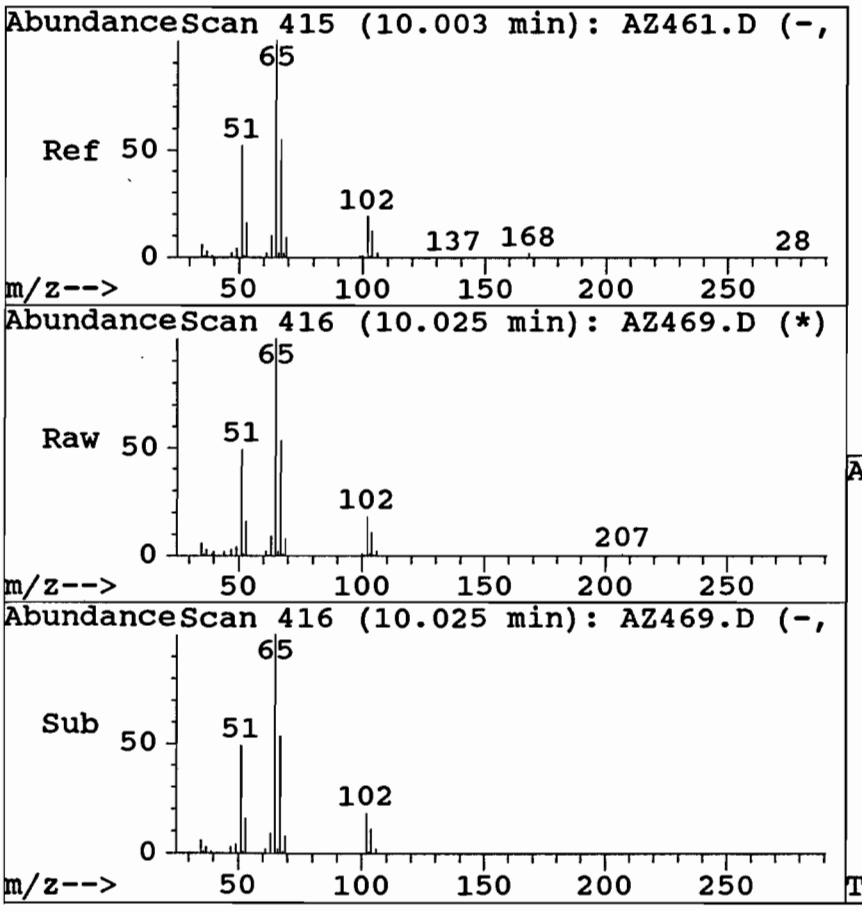


#8
Methylene chloride
Concen: 1.12 ug/l
RT: 6.07 min Scan# 181
Delta R.T. 0.04 min
Lab File: AZ469.D
Acq: 26 Aug 95 5:32 pm

Tgt Ion:84 Resp: 11764

Ion	Ratio	Lower	Upper
84	100		
49	151.0	130.1	195.1
86	64.4	50.9	76.4
0	0.0	0.0	0.0

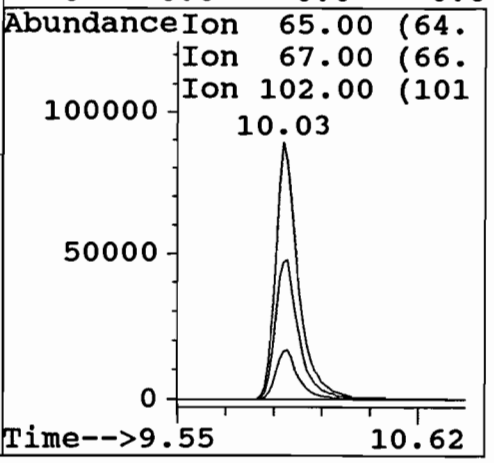




#15
1,2-Dichloroethane-d4
Concen: 51.12 ug/l
RT: 10.03 min Scan# 416
Delta R.T. 0.02 min
Lab File: AZ469.D
Acq: 26 Aug 95 5:32 pm

Tgt Ion:65 Resp: 616897

Ion	Ratio	Lower	Upper
65	100		
67	52.7	43.9	65.8
102	18.2	15.8	23.7
0	0.0	0.0	0.0

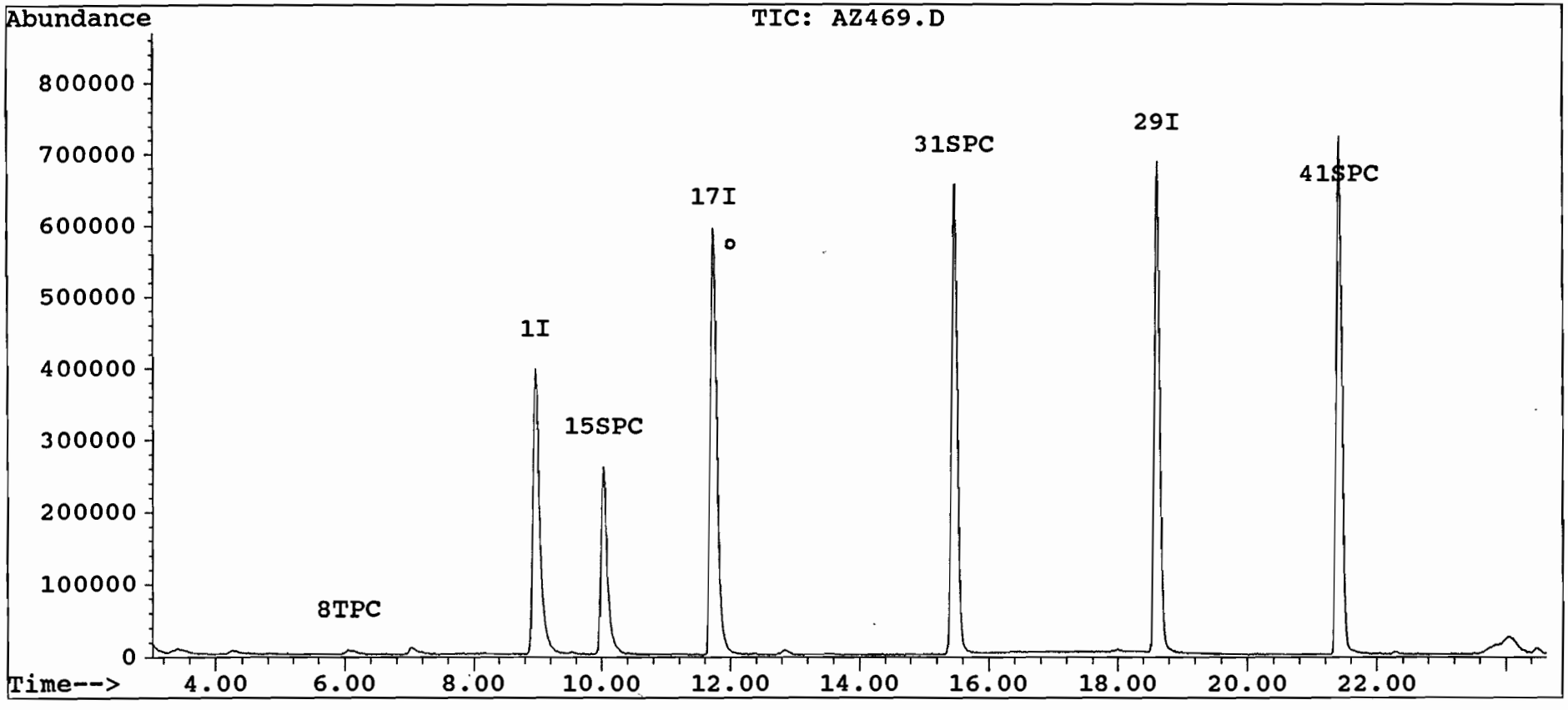


Quantita n Report

Data File : C:\HPCHEM\1\DATA\AZ469.D
Acq On : 26 Aug 95 5:32 pm
Sample : METHOD BLANK
Misc : HA 91-1 SDG:DUP1 EPA:VBLK
Quant Time: Sep 1 13:52 1995

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Last Update : Sun Aug 27 10:23:41 1995
Response via : Single Level Calibration



00352

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\AZ469.D
Acq On : ~~26 Aug 95~~ 5:32 pm 28 Aug 95 (DL) 9/5/95
Sample : METHOD BLANK
Misc : HA 91-1 SDG:DUP1 EPA:VBLK

Vial: 1
Operator: RODH
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPVOA.M
Title : CLPVOAS ON MS#3
Library : NBS54K.L

No Library Search Compounds Detected

00353

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK3

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK3

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6494

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK3

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK3

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6494

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/28/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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00355

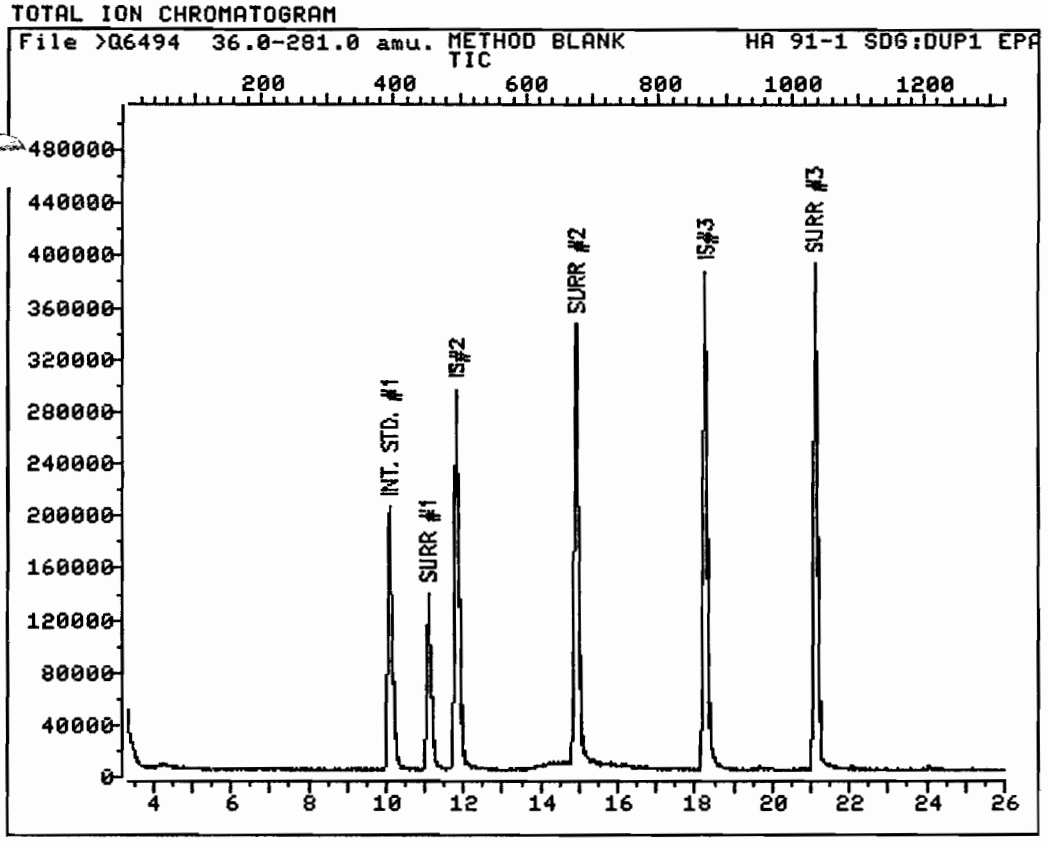
Operator ID: RODH Quant Rev: 7 Quant Time: 950828 10:55
Output File: ^Q6494::D5 Injected at: 950828 22:10
Data File: >Q6494::D5 Dilution Factor: 1.00000
Name: METHOD BLANK Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:VBLK

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.08	128.0	210623	50.00	ppb	98
16)	1,2-Dichloroethane-d4	11.08	65.0	346304	48.23	ppb	92
17)	*1,4-Difluorobenzene	11.80	114.0	896799	50.00	ppb	85
29)	*Chlorobenzene-d5	18.26	117.0	803070	50.00	ppb	98
31)	Toluene-d8	14.91	98.0	823484	49.44	ppb	87
41)	Bromofluorobenzene	21.08	95.0	534769	51.35	ppb	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >Q6494::D5 Quant Output File: ^Q6494::D5
Name: METHOD BLANK Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:VBLK

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950828 21:22

Operator ID: RODH
Quant Time : 950828 10:55
Injected at: 950828 22:10

MS data file header from : >Q6494::D5

Sample: METHOD BLANK Operator: RODH 8/28/95 22:10
Misc : HA 91-1 SDG:DUP1 EPA:VBLK
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

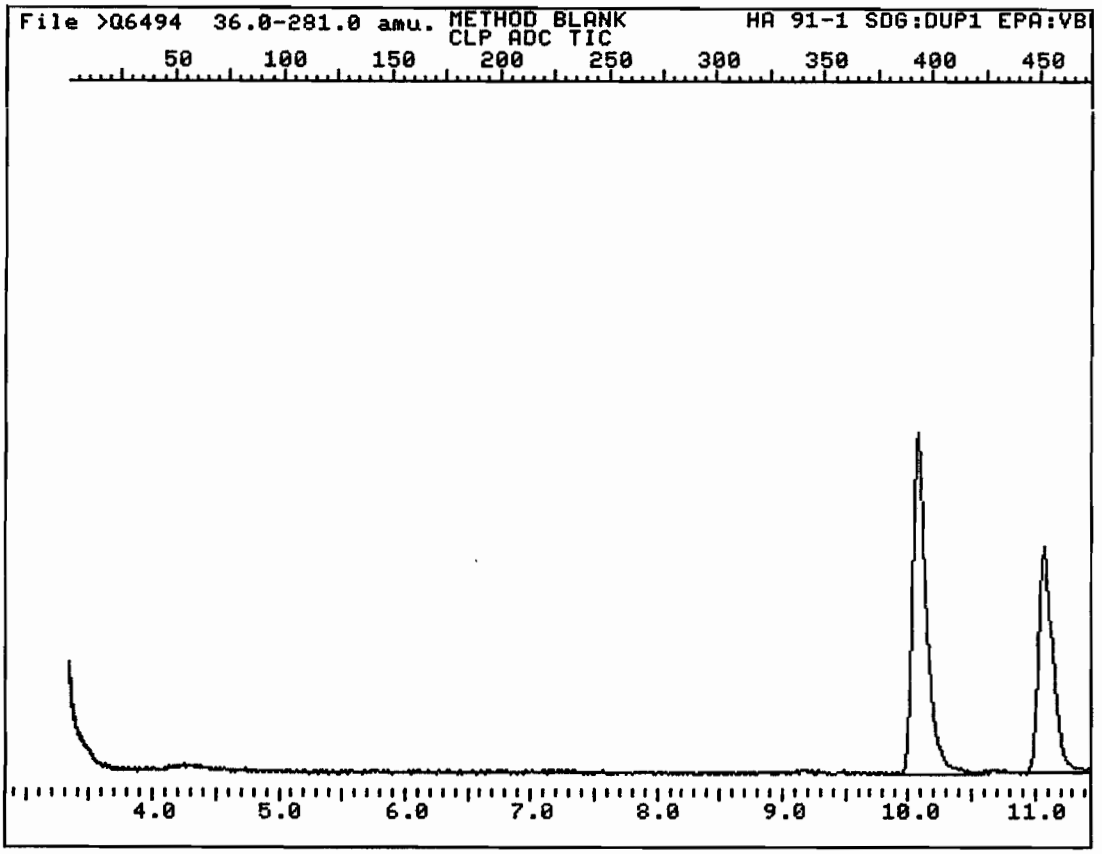
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1546043.	10.08	3.34 - 10.94
2	50.0	2132757.	11.80	10.94 - 15.03
3	50.0	2520370.	18.26	15.03 - 26.01

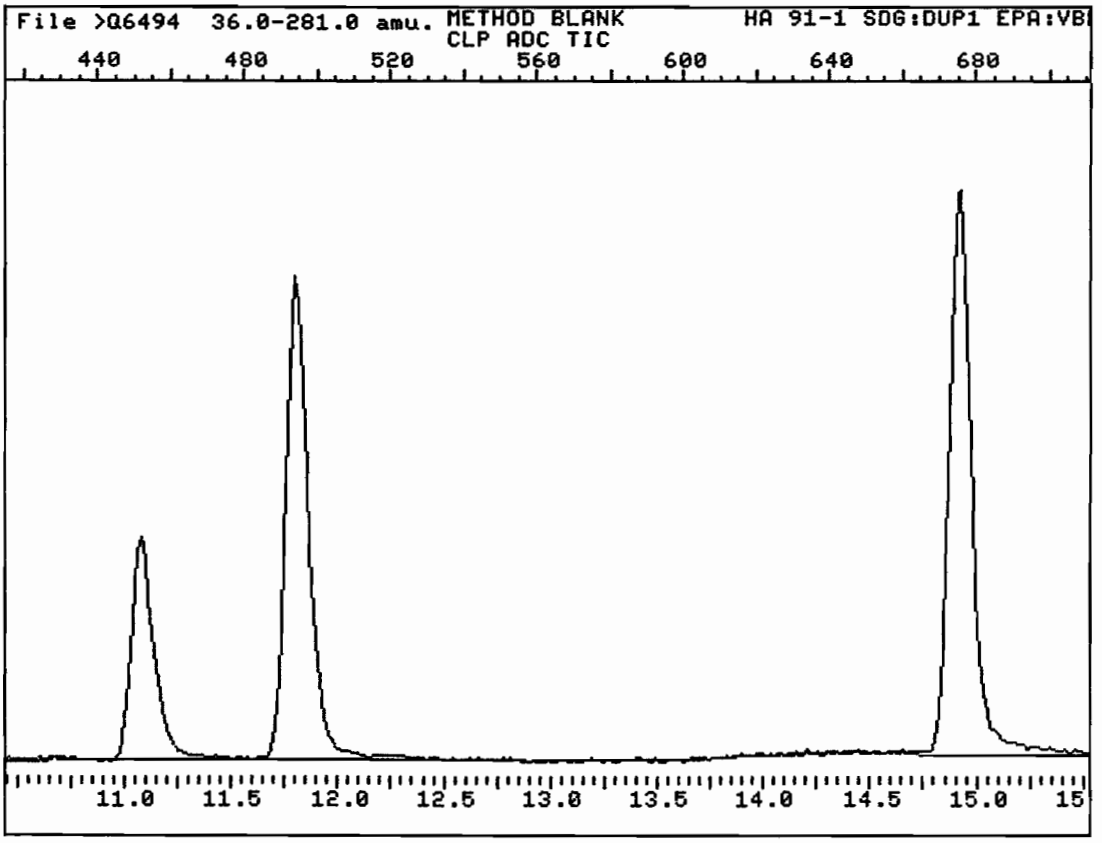
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

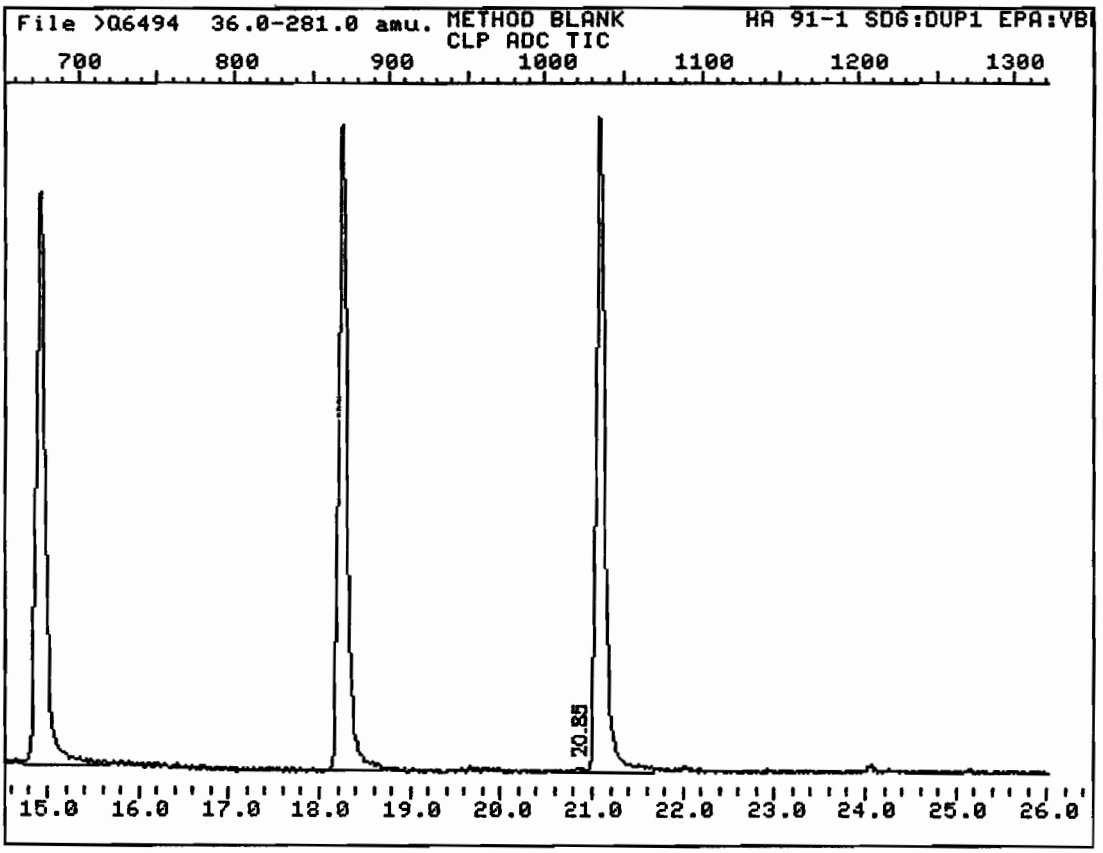
$$\text{Unknown Concentration} = \frac{|\text{Conc Int Std} * \text{Area Unknown}|}{|\text{Area Int Std}|} * \text{Correction Factor}$$

11:49 AM THU., 31 AUG., 1995





Instrument ID: 1 Analyzed on: 8/28/95 22:10



Instrument ID: 1 Analyzed on: 8/28/95 22:10

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK4

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6509

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK4

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK4

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6509

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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.					

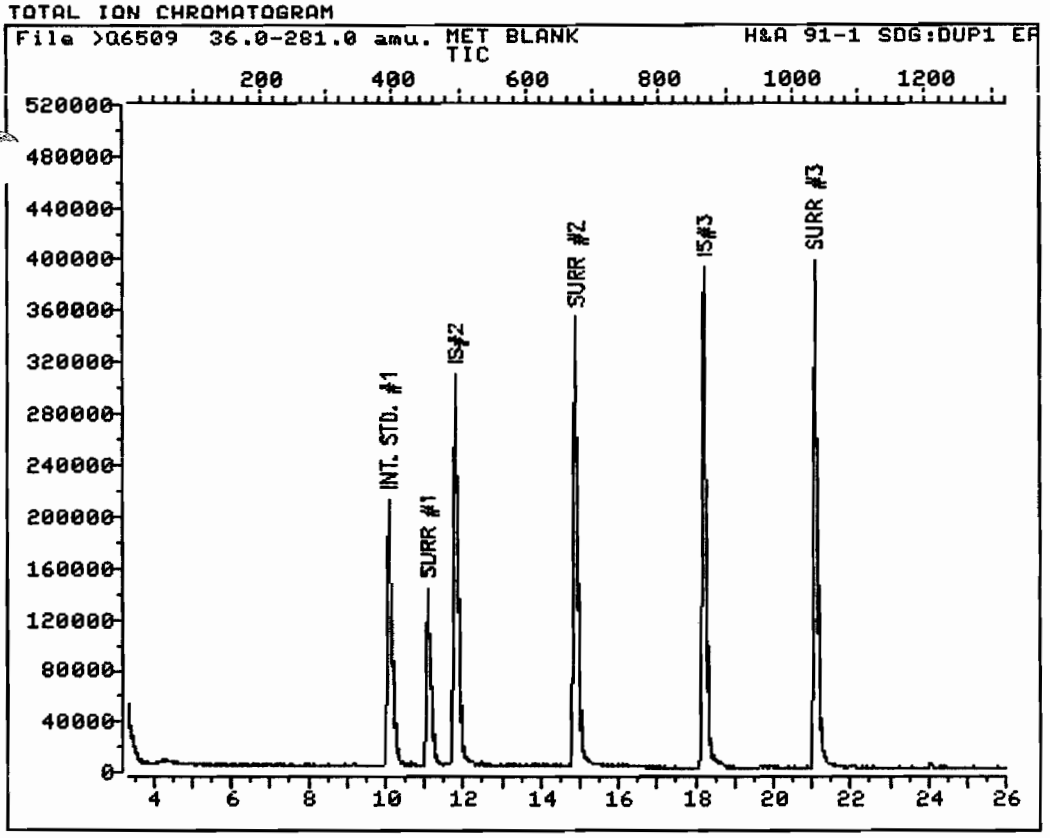
Operator ID: TOMT Quant Rev: 7 Quant Time: 950828 22:16
Output File: ^Q6509::D5 Injected at: 950829 09:29
Data File: >Q6509::D5 Dilution Factor: 1.00000
Name: MET BLANK Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:VBLK

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.08	128.0	214240	50.00	ppb	96
16)	1,2-Dichloroethane-d4	11.08	65.0	344218	46.85	ppb	91
17)	*1,4-Difluorobenzene	11.80	114.0	942320	50.00	ppb	85
29)	*Chlorobenzene-d5	18.23	117.0	819335	50.00	ppb	95
31)	Toluene-d8	14.89	98.0	844360	50.04	ppb	90
41)	Bromofluorobenzene	21.08	95.0	532583	49.14	ppb	87

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >Q6509::D5 Quant Output File: ^Q6509::D5
Name: MET BLANK Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:VBLK

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: TOMT
Quant Time : 950828 22:16
Injected at: 950829 09:29

MS data file header from : >Q6509::D5

Sample: MET BLANK Operator: TOMT 8/29/95 9:29
Misc : H&A 91-1 SDG:DUP1 EPA:VBLK
[illegible]. #: 1 MS model: 70 SW/HW rev.: FF ALS # : 1 Equip ID: 1
Method file: REGVOA Tuning file: N / A No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

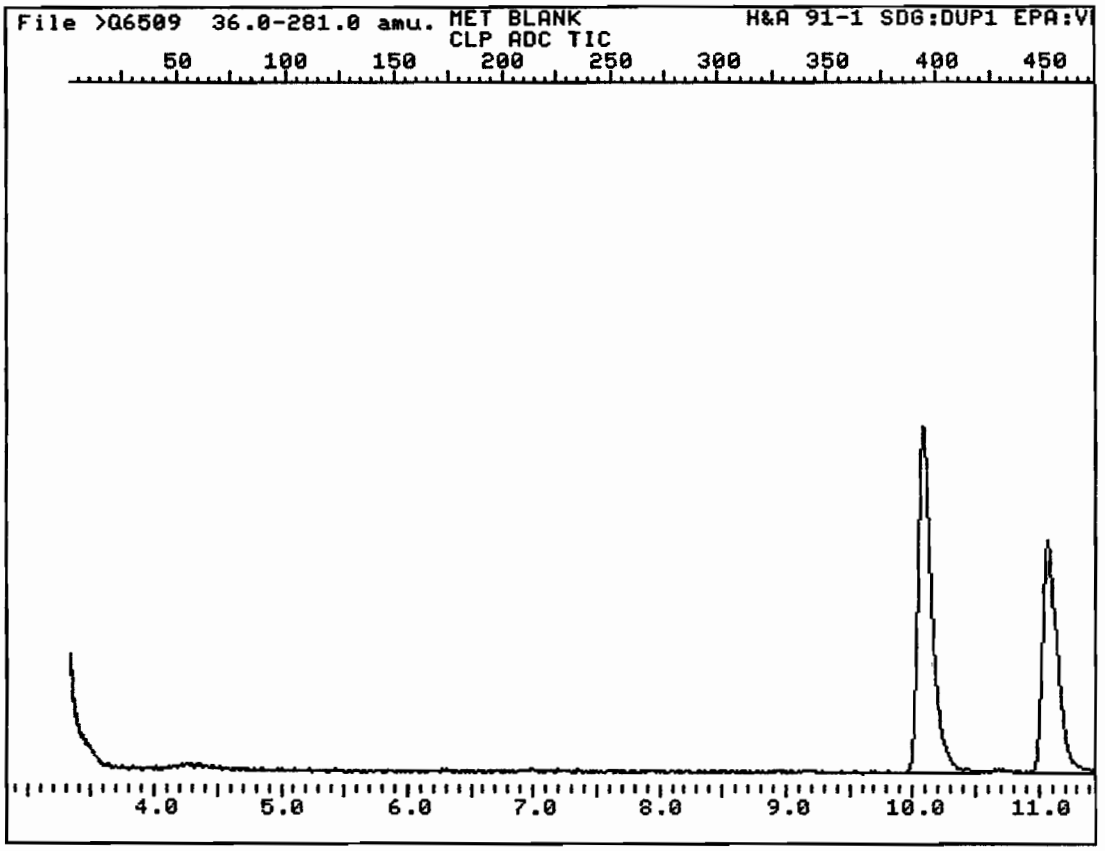
Standard	Concentration	Area	Retention Time	Unknown Window	
1	50.0	1566986.	10.08	3.34 -	10.94
2	50.0	2222181.	11.80	10.94 -	15.01
3	50.0	2535043.	18.23	15.01 -	26.00

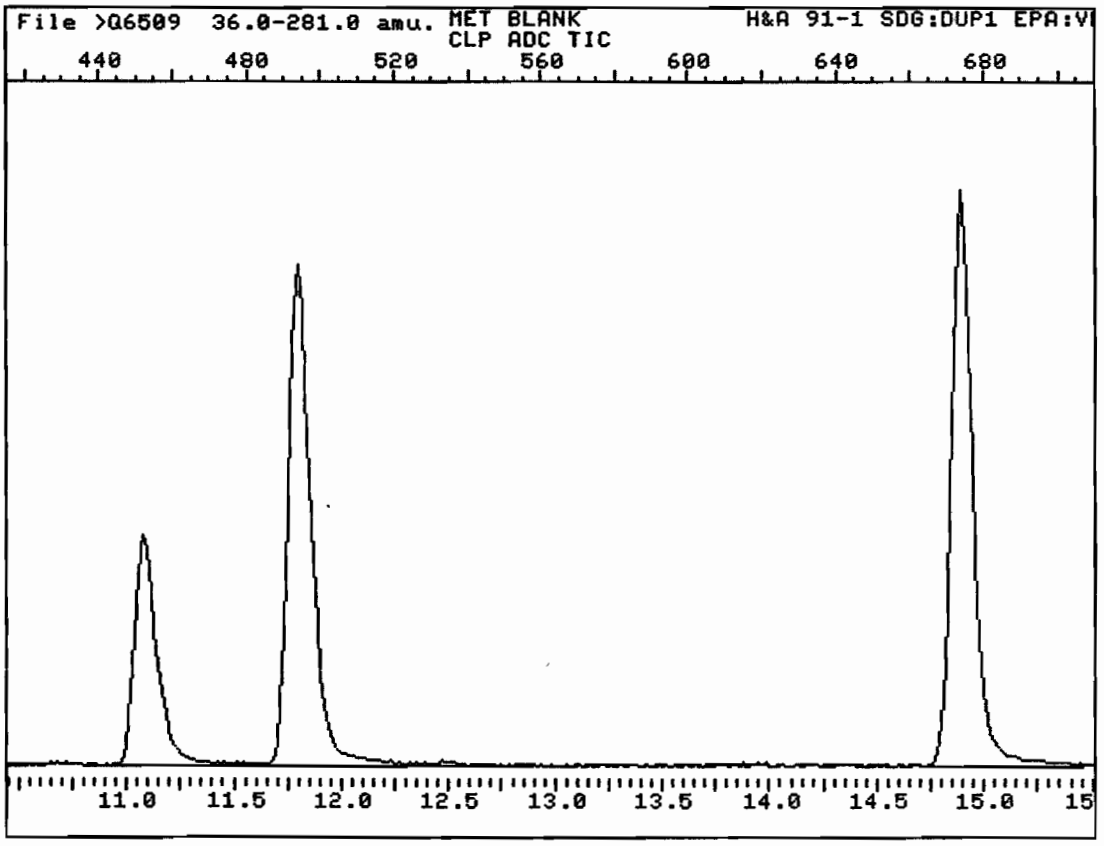
Dilution Factor = 1.00 This sample was 5.00000 g or mL

Correction Factor = 1.00

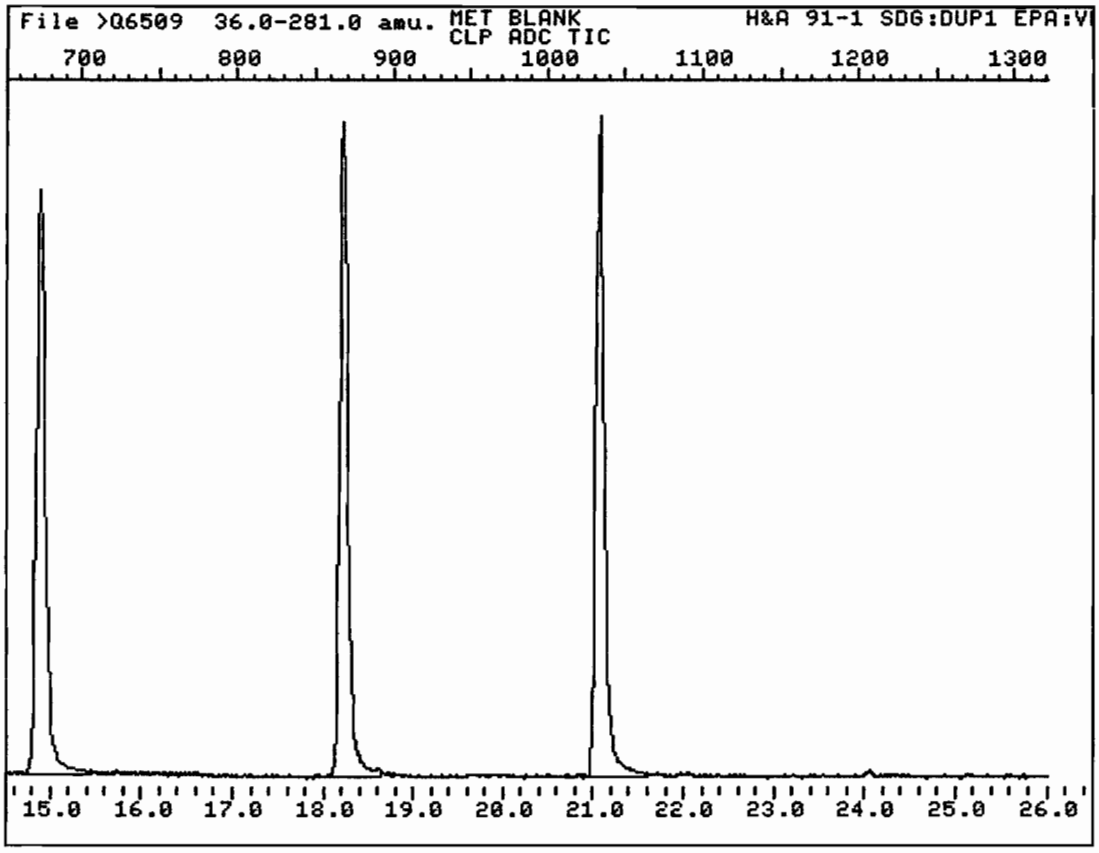
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std} * \text{Area Unknown}}{\text{Area Int Std}} * \text{Correction Factor}$$

3:36 AM FRI., 1 SEPT, 1995





Instrument ID: 1 Analyzed on: 8/29/95 9:29



Instrument ID: 1 Analyzed on: 8/29/95 9:29

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4MS

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:VBLK4MS

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6510

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	53.	
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	47.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	48.	
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	50.	
108-90-7	Chlorobenzene	47.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

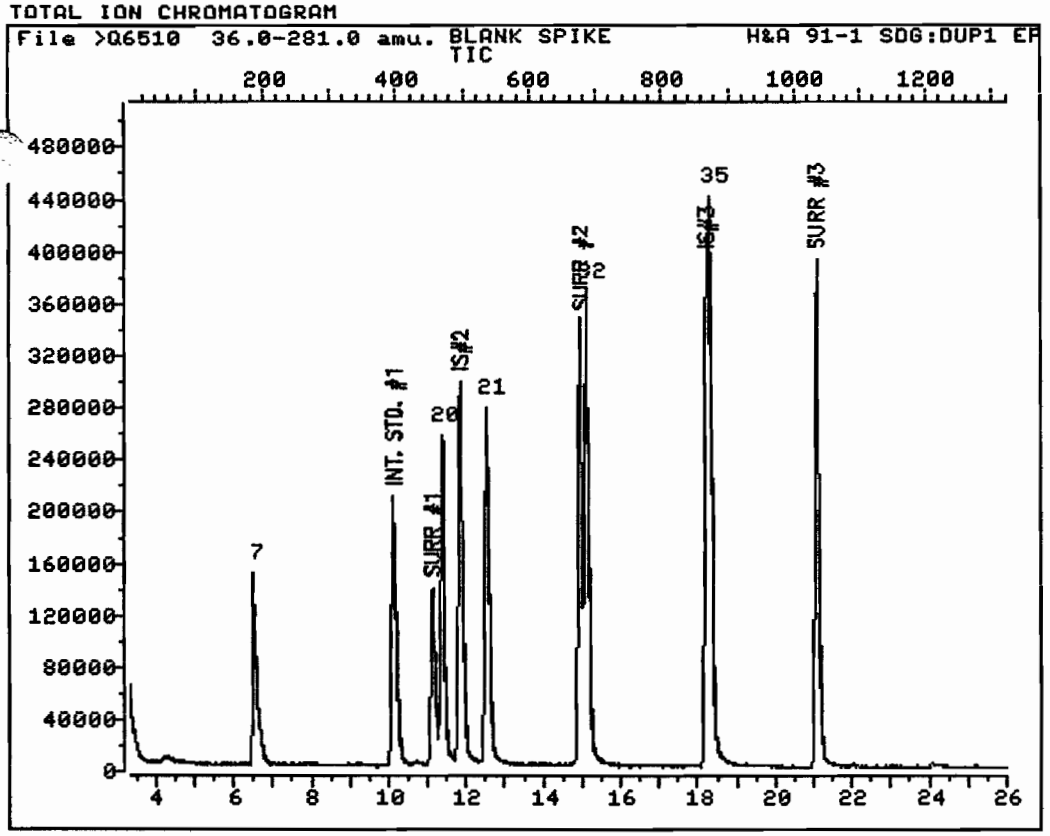
Operator ID: TOMT Quant Rev: 7 Quant Time: 950828 23:05
Output File: ^Q6510::D5 Injected at: 950829 10:28
Data File: >Q6510::D5 Dilution Factor: 1.00000
Name: BLANK SPIKE Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:BLSP

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.12	128.0	208714	50.00	ppb	97
7)	1,1-Dichloroethene	6.50	96.0	261496	52.69	ppb	91
16)	1,2-Dichloroethane-d4	11.12	65.0	343481	47.99	ppb	94
17)	*1,4-Difluorobenzene	11.84	114.0	902588	50.00	ppb	84
20)	Benzene	11.36	78.0	885294	48.10	ppb	95
21)	Trichloroethene	12.52	130.0	386039	47.22	ppb	97
29)	*Chlorobenzene-d5	18.23	117.0	777613	50.00	ppb	96
31)	Toluene-d8	14.95	98.0	834585	52.11	ppb	90
32)	Toluene	15.10	91.0	924540	50.40	ppb	96
35)	Chlorobenzene	18.31	112.0	721402	46.52	ppb	93
41)	Bromofluorobenzene	21.06	95.0	523341	50.87	ppb	88

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >Q6510::D5 Quant Output File: ^Q6510::D5
Name: BLANK SPIKE Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:BLSP

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: TOMT
Quant Time : 950828 23:05
Injected at: 950829 10:28

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SUPMS

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35351MS

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6512

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	46.	
75-34-3	1,1-Dichloroethane	4.	J
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	4.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	3.	J
71-55-6	1,1,1-Trichloroethane	19.	
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	200.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	41.	
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	4.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	40.	
108-90-7	Chlorobenzene	39.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

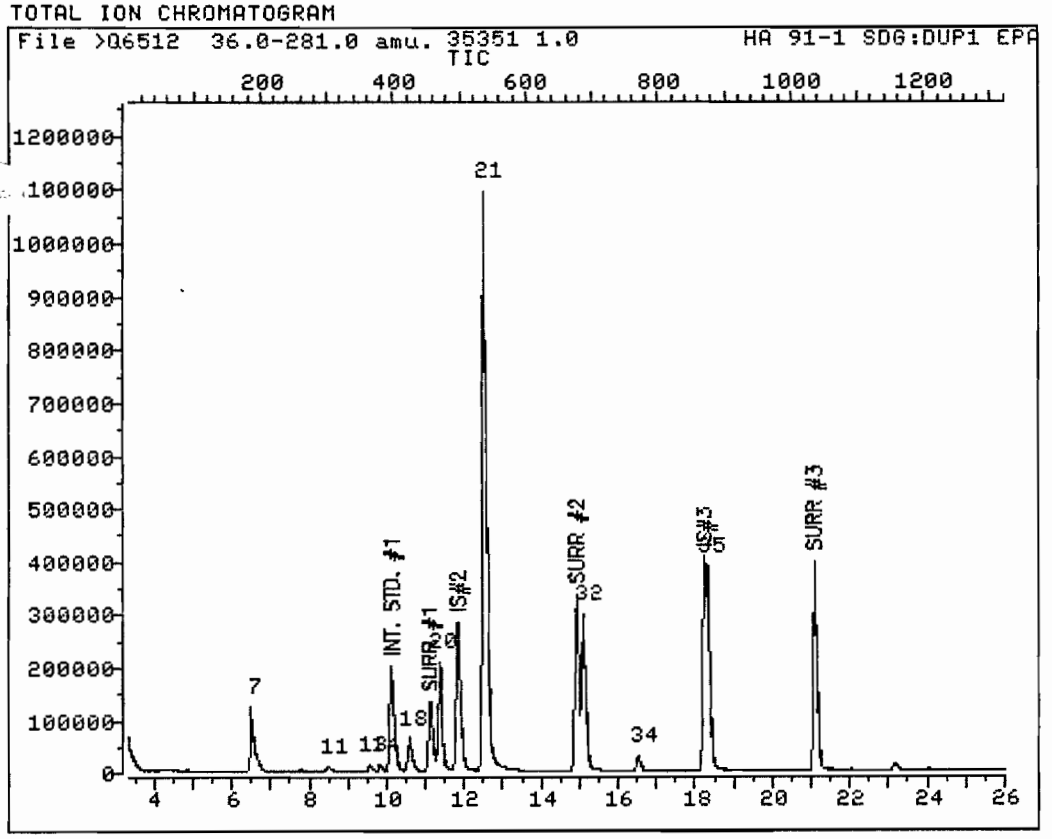
Operator ID: TOMT Quant Rev: 7 Quant Time: 950829 01:13
Output File: ^Q6512::D3 Injected at: 950829 11:54
Data File: >Q6512::D3 Dilution Factor: 1.00000
[illegible]e: 35351 1.0 Instrument ID: 1
[illegible]sc: HA 91-1 SDG:DUP1 EPA:SUPMS

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.12	128.0	200098	50.00	ppb	96
7)	1,1-Dichloroethene	6.50	96.0	221007	46.45	ppb	92
11)	1,1-Dichloroethane	8.50	63.0	39755	3.50	ppb	95
13)	cis-1,2-Dichloroethene	9.54	96.0	18393	3.10	ppb	84
14)	Chloroform	9.83	83.0	41520	3.58	ppb	99
16)	1,2-Dichloroethane-d4	11.10	65.0	331741	48.34	ppb	92
17)	*1,4-Difluorobenzene	11.84	114.0	850094	50.00	ppb	83
18)	1,1,1-Trichloroethane	10.58	97.0	181700	19.09	ppb	97
20)	Benzene	11.36	78.0	712009	41.08	ppb	95
21)	Trichloroethene	12.52	130.0	1530442	198.78	ppb	97
29)	*Chlorobenzene-d5	18.24	117.0	791709	50.00	ppb	97
31)	Toluene-d8	14.93	98.0	787384	48.29	ppb	87
32)	Toluene	15.10	91.0	744945	39.88	ppb	99
34)	Tetrachloroethene	16.53	164.0	26187	3.95	ppb	96
35)	Chlorobenzene	18.33	112.0	617651	39.12	ppb	93
[illegible])	Bromofluorobenzene	21.08	95.0	516826	49.35	ppb	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >Q6512::D3 Quant Output File: ^Q6512::D3
Name: 35351 1.0 Instrument ID: 1
Misc: HA 91-1 SDG:DUP1 EPA:SUPMS

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: TOMT
Quant Time : 950829 01:13
Injected at: 950829 11:54

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SUPMSD

Lab Name:General Testing Corp Contract:H+A

Lab Code:10145 Case No.: SAS No.: SDG No.:DUP1

Matrix: (soil/water) WATER Lab Sample ID:35351MSD

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q6515

Level: (low/med) LOW Date Received: 8/23/95

% Moisture: not dec. Date Analyzed: 8/29/95

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:0 (uL) Soil Aliquot Volume:0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	52.	
75-34-3	1,1-Dichloroethane	3.	J
156-60-5	trans-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	3.	J
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
156-59-2	cis-1,2-Dichloroethene	3.	J
71-55-6	1,1,1-Trichloroethane	17.	
56-23-5	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	190.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	47.	
50061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	3.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	45.	
108-90-7	Chlorobenzene	44.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
108-38-3	(m+p)Xylene	10.	U
95-47-6	o-Xylene	10.	U

00374

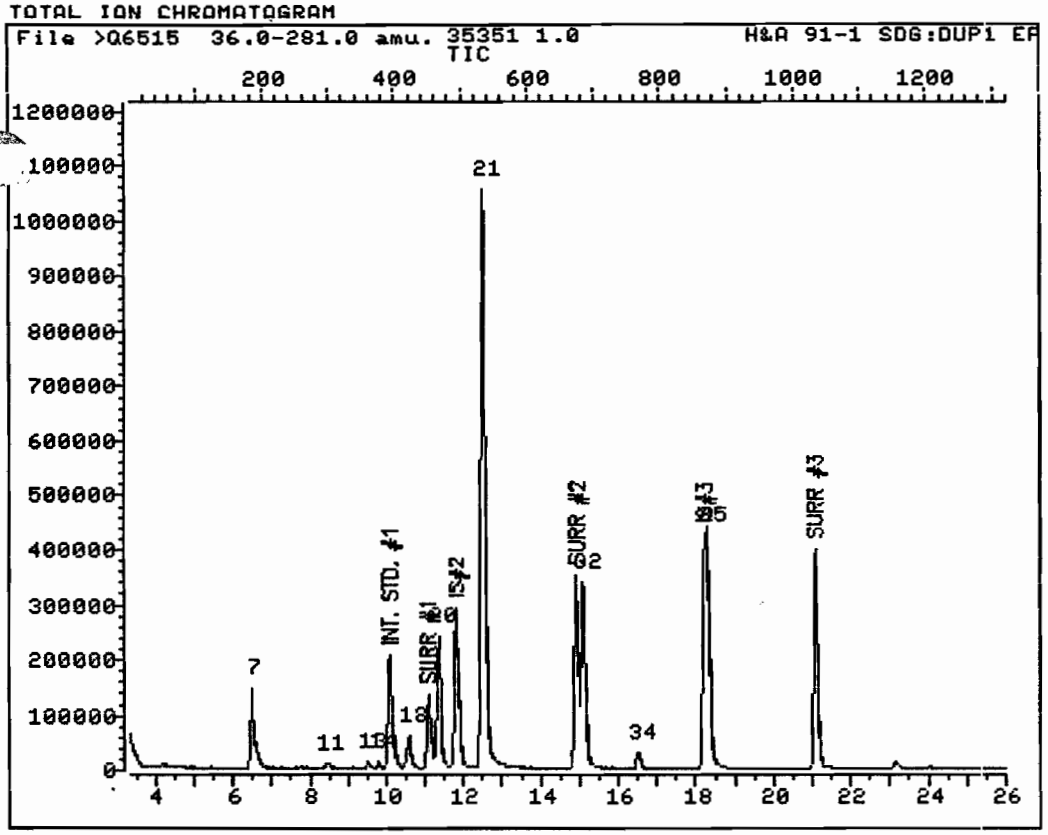
Operator ID: TOMT Quant Rev: 7 Quant Time: 950829 05:06
Output File: ^Q6515::D3 Injected at: 950829 14:13
Data File: >Q6515::D3 Dilution Factor: 1.00000
[illegible]e: 35351 1.0 Instrument ID: 1
[illegible]c: H&A 91-1 SDG:DUP1 EPA:SUPMSD

ID File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.08	128.0	203456	50.00	ppb	98
7)	1,1-Dichloroethene	6.46	96.0	251473	51.98	ppb	91
11)	1,1-Dichloroethane	8.44	63.0	38042M	3.29	ppb	
13)	cis-1,2-Dichloroethene	9.50	96.0	17286	2.86	ppb	90
14)	Chloroform	9.79	83.0	38024	3.22	ppb	93
16)	1,2-Dichloroethane-d4	11.06	65.0	333542	47.80	ppb	94
17)	*1,4-Difluorobenzene	11.80	114.0	866882	50.00	ppb	83
18)	1,1,1-Trichloroethane	10.55	97.0	165802	17.08	ppb	94
20)	Benzene	11.32	78.0	823055	46.56	ppb	95
21)	Trichloroethene	12.49	130.0	1491365	189.95	ppb	97
29)	*Chlorobenzene-d5	18.23	117.0	814833	50.00	ppb	98
31)	Toluene-d8	14.91	98.0	802781	47.84	ppb	86
32)	Toluene	15.07	91.0	858486	44.66	ppb	99
34)	Tetrachloroethene	16.51	164.0	23861	3.50	ppb	95
35)	Chlorobenzene	18.31	112.0	708142	43.58	ppb	93
[illegible])	Bromofluorobenzene	21.06	95.0	539007	50.00	ppb	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >Q6515::D3 Quant Output File: ^Q6515::D3
Name: 35351 1.0 Instrument ID: 1
Misc: H&A 91-1 SDG:DUP1 EPA:SUPMSD

Id File: IDECLP::QT
Title: Volatile Organics on MS#5
Last Calibration: 950725 16:02 Last Qcal Time: 950829 08:42

Operator ID: TOMT
Quant Time : 950829 05:06
Injected at: 950829 14:13