P.T.

US ENVIRONMENTAL PROTECTION AGENCY
60 Westview Street
Lexington, MA. 02173

DATE: October 7, 1998

SUBJECT: **Naval Weapons Industrial Reserve Plant (NWIRP), Bedford, MA**
Soils--Volatile Organic Analysis by GC/MS

Samples Received: MW-285 23-25

FROM: Joseph Montanaro, EIA

TO: Patty Marajh-Whittemore, HBT NJA 10/8/98

THRU: William Andrade, Ph.D., Analytical Specialist

PROJECT NUMBER: 98722

DATE(S) SAMPLES RECEIVED BY THE LABORATORY: 9/22/98

ANALYTICAL PROCEDURE:

SOIL: The samples were processed by Method 5035, High Concentration for Soils and the extracts were analyzed by SW-846, Method 8260B, SW-846, Rev 0, January 1995, (VOAGCMS1. SOP 8/97). Concentration is based on wet weight.

QUALITY CONTROL:

1. A method blank was analyzed prior to sample analysis.
2. Each sample was spiked with three surrogate compounds at 25 ppb concentration. The results for the surrogate recoveries are reported for each sample.
3. Sample MW-285 23-25, was spiked in duplicate and analyzed to determine laboratory precision and accuracy.

DATA FILE: J:\CHEMSTRY\REPORTS\VOA\98722SO.WK4

SEMS DocID 623159

ANALYTICAL PARAMETERS
PURGEABLE ORGANIC ANALYSIS

INSTRUMENTS:	Tekmar Aquatek 50 Purge and Trap Autosampler Tekmar LSC-2000 Finnigan INCOS-50 B

PURGE CONDITIONS:

Gas:	Helium
Purge Time and Flow:	11 min., 40 ml/min
Dry Purge:	4 min., 40 ml/min
Trap:	25 cm stainless steel (1/8 in. OD) packed with Carbopack B (10 cm) Carboxen 1000 (6 cm), and Carboxen 1001 (1 cm)
Desorption Time,Flow, Temperature:	4 min, 15 ml/min., 250 C
Bake out cycle:	8 min @ 260 C

CHROMATOGRAPHIC CONDITIONS:

Column:	Restek 502.2 40M length, 0.18 mm id, 1.0 df (um)
Program:	Initial 50 C programmed at 8 C/min to 220 C and held 220 C for 7 minutes.
Injector and Transfer Temperatures:	200 C
Carrier Gas and Flow:	Helium, 15 ml/min

MASS SPECTROMETER CONDITIONS:

Electron Energy:	70 V
Mass Range:	35 to 300
Scan Rate:	1.5 seconds

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
PROJECT AND REPORT FORM

Chemist Reviewing Data: Dan Boudreau

Method Modifications: None

Limitations of Data:

The response factor for trichoroethylene was beyond the acceptance criteria for continuous calibration. The value reported for this compound in sample MW-285 23-25 is approximate.

Laboratory Blank Problems: None

Instrument Performance Problems: None

Surrogate or Spike Recovery Problems: None

Additional Comments:

There was no trip blank received with the sample(s). Dry weight determination was unavailable as a result of insufficient sample. The results are based on wet weight calculations.

MATRIX SPIKE DUPLICATE ANALYSIS

FACILITY SAMPLED: NWIRP
SAMPLE NUMBER: MW-285 23-25
FILE NAME(S): 09248F06 & 09248F07
DATE OF ANALYSIS: 9/24/98

ACCURACY

COMPOUND	AVERAGE % RECOVERY	ACCEPTABLE RANGE[2]
1,1 Dichloroethylene	86	7-148
Benzene	82	39-119
Trichloroethylene	94	37-130
Toluene	91	43-136
Chlorobenzene	98	48-131

PRECISION

Compound	#1 RECOVERY	#2 RECOVER	RPD	ACCEPTABLE RANGE[2]
1,1 Dichloroethylene	82	91	10	0-52
Benzene	83	82	1	0-24
Trichloroethylene	91	97	6	0-27
Toluene	94	88	6	0-33
Chlorobenzene	104	91	13	0-34

[1]=out of range
[2]=quality control acceptance criteria as per laboratory
[3]=acceptance limit from Federal Register Table 5 - Method 624

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Lab Blank
FILE NAME(S): 09248F03
DATE OF ANALYSIS: 9/24/98

DILUTION FACTOR(S): 1

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	ppb Conc. (ug/L)	Reporting Limits (ug/L)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	5.00	
74-83-9	34413	Bromomethane	ND	5.00	
75-01-4	39175	Vinyl Chloride	ND	5.00	
75-00-3	34311	Chloroethane	ND	5.00	
75-09-2	34423	Methylene Chloride	ND	5.00	
75-69-4	34488	Trichlorofluoromethane	ND	5.00	
75-35-4	34501	1,1-Dichloroethylene	ND	5.00	
75-34-3	34496	1,1-Dichloroethane	ND	5.00	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	5.00	
67-66-3	32106	Chloroform	ND	5.00	
107-06-2	34531	1,2-Dichloroethane	ND	5.00	
71-55-6	34506	1,1,1-Trichloroethane	ND	5.00	
56-23-5	32102	Carbon Tetrachloride	ND	5.00	
75-27-4	32101	Bromodichloromethane	ND	5.00	
78-87-5	34541	1,2-Dichloropropane	ND	5.00	
10061-02-6	34699	t-1,3-Dichloropropene	ND	5.00	
79-01-6	39180	Trichloroethylene	ND	5.00	
124-48-1	32105	Dibromochloromethane	ND	5.00	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	5.00	
79-00-5	34511	1,1,2-Trichloroethane	ND	5.00	
71-43-2	34030	Benzene	ND	5.00	
75-25-2	32104	Bromoform	ND	5.00	
127-18-4	34475	Tetrachloroethylene	ND	5.00	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	5.00	
108-88-3	34010	Toluene	ND	5.00	
108-90-7	34301	Chlorobenzene	ND	5.00	
100-41-4	34371	Ethylbenzene	ND	5.00	
		Dichlorobenzene isomers	ND	5.00	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	5.00	
67-64-1	**81552**	**Acetone**	**9**	**10.00**	**L**
75-15-0	77041	Carbon Disulfide	ND	15.00	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Lab Blank
Sample Results Continued:

CAS NO.	STORET NO.	Compound	ppb Conc. (ug/L)	Reporting Limits (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	20.00	
591-10-6	77103	2-Hexanone	ND	3.00	
108-10-1	81596	4-Methyl-2-Pentanone (MIBK)	ND	3.00	
100-42-5	81708	Styrene	ND	5.00	
133-02-7	81551	Xylenes (total)	ND	5.00	
		1,2-Dibromoethane (EDB)	ND	5.00	
		Tetrahydrofuran	ND	35.00	
		Ethyl ether	ND	15.00	
		Isopropylbenzene	ND	5.00	
		n-Propylbenzene	ND	5.00	
		1,3,5-Trimethylbenzene	ND	5.00	
		1,2,4-Trimethylbenzene	ND	5.00	
		sec-Butylbenzene	ND	5.00	
		para-Isopropyltoluene	ND	5.00	
		n-Butylbenzene	ND	5.00	
		Naphthlene	**2**	**5.00**	**L**
		Methyl-t-Butyl Ether (MTBE)	ND	5.00	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	ACCEPTABLE RANGE[2]
1,2-Dichloroethane,d4	103	63-145
Toluene,d8	97	76-116
1,4-Bromofluorobenzene	96	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
1=out of range
2=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Method Blank
FILE NAME(S): 09248F04
DATE OF ANALYSIS: 9/24/98

SAMPLE WET WEIGHT: 5.042 grams
SAMPLE DRY WEIGHT: 5.042 grams
PERCENT MOISTURE: 0%
DILUTION FACTOR(S): 50
PRESERVATION: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	PPM Conc. (ug/g)	Reporting Limits (ug/g)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	0.50	
74-83-9	34413	Bromomethane	ND	0.50	
75-01-4	39175	Vinyl Chloride	ND	0.50	
75-00-3	34311	Chloroethane	ND	0.50	
75-09-2	34423	Methylene Chloride	ND	0.50	
75-69-4	34488	Trichlorofluoromethane	ND	0.50	
75-35-4	34501	1,1-Dichloroethylene	ND	0.50	
75-34-3	34496	1,1-Dichloroethane	ND	0.50	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	0.50	
67-66-3	32106	Chloroform	ND	0.50	
107-06-2	34531	1,2-Dichloroethane	ND	0.50	
71-55-6	34506	1,1,1-Trichloroethane	ND	0.50	
56-23-5	32102	Carbon Tetrachloride	ND	0.50	
75-27-4	32101	Bromodichloromethane	ND	0.50	
78-87-5	34541	1,2-Dichloropropane	ND	0.50	
10061-02-6	34699	t-1,3-Dichloropropene	ND	0.50	
79-01-6	39180	Trichloroethylene	ND	0.50	
124-48-1	32105	Dibromochloromethane	ND	0.50	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	0.50	
79-00-5	34511	1,1,2-Trichloroethane	ND	0.50	
71-43-2	34030	Benzene	ND	0.50	
75-25-2	32104	Bromoform	ND	0.50	
127-18-4	34475	Tetrachloroethylene	ND	0.50	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	0.50	
108-88-3	34010	Toluene	ND	0.50	
108-90-7	34301	Chlorobenzene	ND	0.50	
100-41-4	34371	Ethylbenzene	ND	0.50	
		Dichlorobenzene isomers	ND	0.50	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	0.50	
67-64-1	**81552**	**Acetone**	**0.54**	**1.00**	**L,B**
75-15-0	77041	Carbon Disulfide	ND	1.50	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: Method Blank
Sample Results Continued:

CAS NO.	STORET NO.	Compound	PPM Conc. (ug/g)	Reporting Limits (ug/g)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	2.00	
591-10-6	77103	2-Hexanone	ND	0.30	
108-10-1	81596	4-Methyl-2-Pentanone (MIBK)	ND	0.30	
100-42-5	81708	Styrene	ND	0.50	
133-02-7	81551	Xylenes (total)	ND	0.50	
		1,2-Dibromoethane (EDB)	ND	0.50	
		Tetrahydrofuran	ND	3.50	
		Ethyl ether	ND	1.50	
		Isopropylbenzene	ND	0.50	
		n-Propylbenzene	ND	0.50	
		1,3,5-Trimethylbenzene	ND	0.50	
		1,2,4-Trimethylbenzene	ND	0.50	
		sec-Butylbenzene	ND	0.50	
		para-Isopropyltoluene	ND	0.50	
		n-Butylbenzene	ND	0.50	
		Naphthlene	ND	0.50	
		Methyl-t-Butyl Ether (MTBE)	ND	0.50	
		Other Compounds Tentatively Identified			
		Other Compounds Quantitated			

Sample Recoveries for Surrogate Compounds:		Observed Recoveries	ACCEPTABLE RANGE[2]
	1,2-Dichloroethane,d4	106	63-145
	Toluene,d8	94	76-116
	1,4-Bromofluorobenzene	99	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
1=out of range
2=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NWIRP

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID: MW-285 23-25
FILE NAME(S): 09248F05
DATE OF COLLECTION: 9/22/98
DATE OF ANALYSIS: 9/24/98

SAMPLE WET WEIGHT: 6.462 grams
SAMPLE DRY WEIGHT: Not Available
PERCENT MOISTURE: Not Available
DILUTION FACTOR(S): 50
PRESERVATION: Cool to 4 C

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
		TARGET COMPOUNDS			
74-87-3	34418	Chloromethane	ND	0.39	
74-83-9	34413	Bromomethane	ND	0.39	
75-01-4	39175	Vinyl Chloride	ND	0.39	
75-00-3	34311	Chloroethane	ND	0.39	
75-09-2	34423	Methylene Chloride	ND	0.39	
75-69-4	34488	Trichlorofluoromethane	ND	0.39	
75-35-4	34501	1,1-Dichloroethylene	ND	0.39	
75-34-3	34496	1,1-Dichloroethane	ND	0.39	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	0.39	
67-66-3	32106	Chloroform	ND	0.39	
107-06-2	34531	1,2-Dichloroethane	ND	0.39	
71-55-6	**34506**	**1,1,1-Trichloroethane**	**0.99**	**0.39**	
56-23-5	32102	Carbon Tetrachloride	ND	0.39	
75-27-4	32101	Bromodichloromethane	ND	0.39	
78-87-5	34541	1,2-Dichloropropane	ND	0.39	
10061-02-6	34699	t-1,3-Dichloropropene	ND	0.39	
79-01-6	**39180**	**Trichloroethylene**	**0.71**	**0.39**	J
124-48-1	32105	Dibromochloromethane	ND	0.39	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	0.39	
79-00-5	34511	1,1,2-Trichloroethane	ND	0.39	
71-43-2	34030	Benzene	ND	0.39	
75-25-2	32104	Bromoform	ND	0.39	
127-18-4	**34475**	**Tetrachloroethylene**	**0.89**	**0.39**	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	0.39	
108-88-3	34010	Toluene	ND	0.39	
108-90-7	34301	Chlorobenzene	ND	0.39	
100-41-4	34371	Ethylbenzene	ND	0.39	
		Dichlorobenzene isomers	ND	0.39	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.39	
67-64-1	**81552**	**Acetone**	**0.90**	**0.77**	L
75-15-0	77041	Carbon Disulfide	ND	1.16	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - SOIL

SAMPLE ID.: MW-285 23-25
Sample Results Continued:

CAS NO.	STORET NO.	Compound	ppm Conc. (ug/gm)	Reporting Limits (ug/gm)	Comments
78-93-3	81595	2-Butanone (MEK)	ND	1.54	
591-10-6	77103	2-Hexanone	ND	0.23	
108-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	0.23	
100-42-5	81708	Styrene	ND	0.39	
133-02-7	81551	Xylenes (total)	ND	0.39	
		1,2-Dibromoethane	ND	0.39	
		Tetrahydrofuran	ND	2.70	
		Ethyl ether	ND	1.16	
		Isopropylbenzene	ND	0.39	
		n-Propylbenzene	ND	0.39	
		1,3,5-Trimethylbenzene	ND	0.39	
		1,2,4-Trimethylbenzene	ND	0.39	
		sec-Butylbenzene	ND	0.39	
		para-Isopropyltoluene	ND	0.39	
		n-Butylbenzene	ND	0.39	
		Naphthlene	ND	0.39	
		Methyl-t-Butyl Ether (MTBE)	ND	0.39	
		Other Compounds Tentatively Identified			
		Octane			
		Nonane			
		Other Compounds Quantitated			

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	ACCEPTABLE RANGE[2]
1,2-Dichloroethane,d4	101	63-145
Toluene,d8	96	76-116
1,4-Bromofluorobenzene	94	71-131

Notes:

ND=none detected above the detection level
RL=Reporting Limit
J=approximate
NA=not available due to dilution or interference
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
B=analyte is associated with lab blank
[1]=out of range
[2]=quality control acceptance criteria as per laboratory

Project Review Form
VOA Analyses by GC/MS

Project Number 98722 **Site** NWIRP

Note: Any omissions or problems with the data require resolution before proceeding to the next review step.

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REQUESTED ANALYSIS AND DATA FOLDER COMPLETENESS CHECK

(✓) Does the RLIMS information match the COC requests?

(✓) Were all samples analyzed and identified correctly? - No Trip Blank - No Sample For Dry Wt. Analysis

(✓) Have the samples been analyzed according to the referenced method or SOP? Are all deviations approved and documented?

(✓) Has sample preservation been checked for all samples ?

(✓) Is the raw data folder complete?
- (NA) Tracking form
- (✓) Sample Disposal Document
- (✓) Project and report form
- (✓) Copy of the Chain-of-Custody Form
- (✓) Soil extraction summary sheet for dry weight calculation
- (✓) Laboratory notebook form
- (NA) GC screening data (if applicable)
- (✓) BFB tunes - summary and raw data
- (✓) Initial and continuing calibrations - summarizations and raw data for all associated calibrations
- (✓) Sample sequence list
- (✓) Copy of instrument run log
- (✓) ID list with updated RFs
- (✓) Quant sheets for samples, reprocessed after manual checks (Initialled and dated by analyst)
- (✓) Extended GC/MS reports and TICs for samples
- (✓) GC/MS quantitation worksheet
- (✓) Surrogate and matrix spike recovery table
- (✓) Internal standard area table

Reviewed by: [signature] Date Reviewed: 10/8/98

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DATA EVALUATION

(✓) Have the proper number of QC samples been analyzed?
- (✓) Blanks
- (✓) MS/MSD
- ( ) Duplicates
- ( ) PE Samples

(✓) Is the information on the medium level soil extraction benchsheets correct?
(✓) Is there documentation of standard preparation and traceability?
(✓) Are blank contaminants within limits? If outside limits, is there documented approval to proceed with analysis?
(✓) Are matrix spike recoveries and RPDs within limits?
(✓) Are surrogate recoveries/IS areas within limits? Do samples require reanalysis?
(✓) Are BFB tunes acceptable?
(✓) Are initial and continuing calibrations acceptable? Spotcheck RRF from raw data. Check all outliers.
(✓) If required, were all samples analyzed within 12 hr of BFB?
(✓) Have samples been processed with updated response factors? Check quantitation time on raw data.
(✓) Are the calculations correct? Document with a sample calculation from raw data to final concentration (The reviewer initials and dates calculation.)
- (✓) Dry weight
- (✓) Report factors
- (✓) Sample concentrations
- (✓) Are the concentrations of the compounds found within calibration range?

( ) Do duplicate analyses have similar results?

Reviewed by: [illegible] Date Reviewed: 10/8/98

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FINAL REPORT

( ) Check the following information on the report accuracy.
- (✓) Sample IDs
- (✓) Date sampled(collected)
- (✓) Date received
- (✓) Date analyzed
- (✓) Sample weight
- (✓) % Moisture
- (✓) Extract dilution factor
- (✓) Reporting Limit (R.L.)
- ( ) Scaling factor
- (✓) Flags
- ( ) pH

(✓) Is the method summary an accurate reflection of all encountered problems? Are observations about the samples noted? Are method blank contaminants mentioned?
(✓) Are the number of significant figures used correctly and consistently?
(✓) Has the final report been checked for transcription errors?

Reviewed by: Date Reviewed:

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Comments:

ENVIRONMENTAL PROTECTION AGENCY

REGION 1 PN: 98722

CHAIN OF CUSTODY RECORD

PROJ. NO. ~~98720~~

PROJECT NAME: NWIRP, Bedford, MA

SAMPLERS: (Signature) [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC (8260) w/ MTBE						REMARKS
mw-28S	9/22/98	1042		✓	23'-25'	2	X						PID Headspace > 2000 ppm
													Sample ID mw28S-23-25

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/22/98 12:35				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		[signature]	9/22/98 12:35		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

GC QUANTITATION SHEET

AMPLE NUMBER: LAB Blank
ATA FILE ID: 09248F03
NALYSTS: [illegible]
ATE: 9/24/98

Amt. Ext: 5ml Purge
pH: 7
% Moisture: —

AQC: [illegible]
AQC DATE: 10/8/98
Report Dilution Factor: 1
Matrix: water

COMPOUND	Ret. Time	Obs Conc.	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
	min	µg/L		ug/L	ug/L			
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Trichlorofluoromethane								
Ethyl ether								
Acreolin								
2-Propanone (acetone)	6.12	8.46	1	10	9	L		
1,1,2-Trichloro-1,2,2-								
triflouroethane								
1,1-Dichloroethylene								
Carbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

US EPA REGION I
GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret.	Obs	Dil	Rept.	Rept	Qua	Range	Notes
	Time	Conc.		Limit	Conc.			
	min	µg/L						
1,1-Dichloropropene								
Trichloroethylene								
1,2 Dichloropropane								
Bromodichloromethane								
Dibromomethane								
2-Chloroethylvinylether								
4-Methyl-2-Pentanone(MIBK)								
1,3-Dichloropropane								
Tetrachloroethylene								
1,2-Dibromomethane								
2-Hexanone								
1,1,1,2-Tetrachloroethane								
Ethylbenzene								
META/ PARA XYLENE								
Ortho Xylene								
Styrene								
BROMOFORM								
1,1,2,2-Tetrachloroethane								
Isopropylbenzene (ben1,meth)								
Bromobenzene								
1,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

SAMPLE NUMBER:
DATA FILE ID:
ANALYSTS:
DATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene	32.13	1.49	1	5	2	L		
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								~~104~~ ~ 103
Toluene-D8								97
1,4-Bromoflourobenzene								96

TIC
None observed

Qualifiers: E, L B, J

quantdsw.wpd

GC QUANTITATION SHEET

AMPLE NUMBER: Method Blank
DATA FILE ID: 07248F04
ANALYSTS: —
DATE: 9/24/98

Wet Amt. Ext: 5.042 gram
Dry Amt. Ext: 5.042 gram
pH:
% Moisture: 0
% Dry: 100

AQC: OK
AQC DATE: 10/8/98
Report Dilution Factor: 50
Matrix: Soil

0.5
(0.1)

COMPOUND	Ret. Time	Obs Conc.	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
	min	µg/L		ug/g	ug/g			
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Trichlorofluoromethane								
Ethyl ether								
Acreolin								
2-Propanone (acetone)	6.17	5.47	50	1.0	0.54	L,B		
1,1,2-Trichloro-1,2,2-								
triflouroethane								
1,1-Dichloroethylene								
Carbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane								
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

US EPA REGION I

GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time	Obs Conc.	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
	min	µg/L						
1,1-Dichloropropene								
Trichloroethylene								
1,2 Dichloropropane								
Bromodichloromethane								
Dibromomethane								
2-Chloroethylvinylether								
4-Methyl-2-Pentanone(MIBK)								
1,3-Dichloropropane								
Tetrachloroethylene								
1,2-Dibromomethane								
2-Hexanone								
1,1,1,2-Tetrachloroethane								
Ethylbenzene								
META/ PARA XYLENE								
Ortho Xylene								
Styrene								
BROMOFORM								
1,1,2,2-Tetrachloroethane								
Isopropylbenzene (ben1,meth)								
Bromobenzene								
1,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

SAMPLE NUMBER:
DATA FILE ID:
ANALYSTS:
DATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								106
Toluene-D8								94
1,4-Bromoflourobenzene								99

Tics
none

R.L.

$$\frac{(10ml)(50)(5ug/g)}{(5.042g)(1000ml/L)} = \boxed{0.50\ ug/g}$$

(0.10)

Qualifiers: E, L B, J

quantdsw.wpd

GC QUANTITATION SHEET

AMPLE NUMBER: MW-285-23-25
DATA FILE ID: 09248F05
ANALYSTS: ~
DATE: 9/24/98

Wet Amt. Ext: 6.462 gram
pH:
% Moisture:

AQC: DB
AQC DATE: 10/8/98
Report Dilution Factor: 50
Matrix: Soil

0.39
(0.077)

COMPOUND	Ret. Time	Obs Conc.	Dil	Rept. Limit	Rept Conc.	Qua	Range	Notes
	min	µg/L		mg/g	mg/g			
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Trichlorofluoromethane								
Ethyl ether								
Acreolin								
2-Propanone (acetone)	6.21	11.64	50	0.77	0.90	L		
1,1,2-Trichloro-1,2,2-								
triflouroethane								
1,1-Dichloroethylene								
Carbon Disulfide								
Dichlorodiflouromethane								
Methylene Chloride								
Acrylonitrile								
Trans-1,2-Dichloroethylene								
1,1-Dichlorethane								
Vinyl Acetate								
2-Butanone (MEK)								
2,2-Dichloropropane								
cis-1,2-Dichloroethylene								
Chloroform								
Bromochloromethane								
Tetrahydrofuran								
1,1,1-Trichloroethane	11.50	12.81	50	0.39	0.99			
1,2-Dichloroethane								
Carbon Tetrachloride								
Benzene								
Flourobenzene								
c-1,3-Dichloropropene								
1,1,2-Trichloroethane								
Dibromochloromethane								
Chlorobenzene								
Toluene								

US EPA REGION I
GC QUANTITATION SHEET

AMPLE NUMBER:
ATA FILE ID:
NALYSTS:
ATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret. Time min	Obs Conc. µg/L	Dil	Rept. Limit ug/g	Rept Conc. ug/g	Qua	Range	Notes
1,1-Dichloropropene								
Trichloroethylene	13.85	12.81	50	0.39	0.71			Qualify - RF > 20
1,2 Dichloropropane								
Bromodichloromethane								
Dibromomethane								
2-Chloroethylvinylether								
4-Methyl-2-Pentanone(MIBK)								
1,3-Dichloropropane								
Tetrachloroethylene	18.44	11.49	50	0.39	0.89			
1,2-Dibromomethane								
2-Hexanone								
1,1,1,2-Tetrachloroethane								
Ethylbenzene								
META/ PARA XYLENE								
Ortho Xylene								
Styrene								
BROMOFORM								
1,1,2,2-Tetrachloroethane								
Isopropylbenzene (ben1,meth)								
Bromobenzene								
1,2,3-Trichloropropane								
N-Proplbenzene								
2-Chlorotoluene								
4-Chlorotoluene								
Tert-Butylbenzene(ben-1,1-)								
1,3,5-Trimethylbenzene								
1,2,4-Trimethylbenzene								
Sec-Butylbenzene (Ben-1-Met								
1,3-dichlorobenzene								
Para-Isopropytoluene (ben-1-								
1,4-Dichlorobenzene								
1,2-Dichlorobenzene								
N-Butylbenzene								
1,2-Dibromo-3-Chloropropan								

GC QUANTITATION SHEET

SAMPLE NUMBER:
DATA FILE ID:
ANALYSTS:
DATE:

Amt. Ext:
pH:
% Moisture:

AQC:
AQC DATE:
Report Dilution Factor:
Matrix:

COMPOUND	Ret.	Obs	Dil	Rept.	Rept	Qua	Range	Notes
	Time	Conc.		Limit	Conc.			
	min	µg/L						
1,2,4-Trichlorobenzene								
Hexachlorobutadiene								
Napthalene								
1,2,3-Trichlorobenzene								
1,2-Dichloroethane-D4								~~108~~ m 101
Toluene-D8								~~97~~ m 96
1,4-Bromoflourobenzene								~~100~~ m 94

TICs

Octane
Nonane

R.L.

$$\frac{(10\,ml)(50)(5\,ug/L)}{(6.462\,g)(1000\,ml)L)} = \boxed{0.39\,ug/g}$$

(0.077)

Qualifiers: E, L B, J

quantdsw.wpd

EPA-New England
Project and Request Form

SURVEY NAME: NAVAL WEAPONS INO RESERVE PLAN

DATE: 09/22/98

PROJECT NUMBER: 98722

DATE LOGGED IN: 09/22/98

MATRIX: SOIL

DUE DATE: 10/13/98

ANALYST:

ACCT NO: TFAX01R8LA00

PARAMETER: VOA_LL

METHOD: VOA SOLL2.MS

REQUESTING ANALYSIS: PATTY MARAJH-WHITTEMORE

SAMPLE NUMBERS: MW285-23-25

QUALITY CONTROL:
- LAB BLANK:
- DUPLICATE:
- MATRIX:
  - MATRIX SPIKE SOLUTION:
  - MATRIX SPIKE VOLUME:
- SURROGATES:
  - SURROGATE SOLUTION:
  - SURROGATE VOLUME:
- QUALITY CONTROL SAMPLE:
- MISCELLANEOUS:

NOTES:

REPORT INFORMATION:
- DATE OF REPORT:
- FILE NAME:
- LOTUS FORMAT:
- WORDPROCESSING FORMAT:
- REQUESTING REPORT:
- ANALYSTS:
- DATE OF ANALYSIS:

NOTES:

US EPA REGION 1
SOIL EXTRACTIONS
SUMMARY SHEET

SURVEY NAME: NWIRP ANALYST: Montana AQC:

PROJECT #: 98722 DATE: 9/24/98 AQC DATE:

BALANCE CHECK (± 0.2%): OVEN TEMP (110 C):

SAMPLE NO.	MW285 23-25	MW285 MS 23-25	Method Blank						
PAN WT									
TOTAL NET WT									
NET WET WT									
TOTAL DRY WT									
NET DRY WT									
% SOLIDS	#	#	100						
SAMPLE WET WT	6.462	6.811	5.042						
SAMPLE DRY WT	#	#	5.042						
% MOIST			0						
pH WET WT									
pH VOL									
pH WATER									
pH SAMPLE									

COMMENTS: Balance Check

~~# 90384~~ Thermo Class "S" 09503

0 = 0.000g
10g = 10.001g
20g = 20.001g
50g = 50.001g

No Trip Blank
No Soil available for Dry Wt. Determination

EPA REGION 1
VOA SAMPLE EXTRACTION & DILUTION WORKSHEET

PROJECT NAME: NWIRP **PN:** 98722

BALANCE #: 930284 **ANALYST:** [illegible]

BALANCE CHECK: see Soil extraction sheet **DATE:** 9/24/98

SAMPLE #:	MATRIX	H20 SOLUBILITY	WET WEIGHT	% SOLIDS	VOLUME	PH	DILUTIONS		
LAB Blank	water	✓	NA	NA	5ml Purge	7	1		
Method Blank	Soil	NA	5.042	100	10ml	MeOH	50		
MW705 23-25-50X	Soil	NA	6.462	—	10ml	MeOH	50		
MW705 MS 23-25-50X	↓	↓	6.811	—	10ml	MeOH	50		
MW705 MSD 23-25-50X	↓	↓	6.811	—	10 ml	MeOH	50		

4/97 kj

				Method / Sugest.
8/11/98	V3-7-9-98 A,B,P V3-5-4-98F MDL 524.2 Study	DW	10 PPb 10ul to 100ml	(DW, 50B)
8/12/98	V3-7-9-98A,B,D V3-5-4-98F Otis AFB	DW	10 PPb 10ul to 100ml	(DW, 50B)
9/2/98	V3-7-9-98 A,B,C V3-7-28-98 E (custom) Otis AFB	HW	5, 10, 20, 50, 100 PPb 5ul, 10ul, 20ul, 50ul, 100ul to 100	(HW, 50I
9/3/98	V3-7-9-98 A,B,C V3-7-28-98 E (Custom) Otis AFB	HW	50 PPb 50ul to 100ml	(HW, 50
9/8/98	V3-7-9-98 A,B,D V3-7-28-98E (custom) Nutmeg Valley		1, 2, 5, 10, 20 2ul to 200ml 2ul, 5ul, 10ul, 20ul to 100ul	(DW,
9/9/98	V3-7-9-98 A,B,C V3-7-28-98E (custom)		50 PPb 50ul to 100ml	(HW, 5
9/14/98	V3-7-9-98 A,B,C V3-7-28-98F (custom)		50 PPb 50ul to 100ml	(HW, 5
9/24/98	V3-7-9-98A,B,C V3-7-28-98F (custom)		50 PPb 50ul to 100ml	(HW,

Sample Seq

Sequence Parameters - UNNAMED.SEQ
Thu Sep 24 13:11:30 1998

Operator :
Minimum Storage : 8MB
Syringe Size : 10µL
Pre-Sequence Macro :
Post-Sequence Macro :
Comment :

Sample Table :

Vial	Name	Description	Account	Dil	Type	Group
1	METHOD BLA	NWIRP		1	Unk	
2	MW-285-23-	NWIRP		1	Unk	
3	MW-285-23-	NWIRP		1	Unk	
4	MW-285-23-	NWIRP		1	Unk	
5	50 PPB			1	Unk	
6	HEAT			1	Unk	

Sequence Table :

Start	End	Inj/Vial	Vol(µL)	Prefix	Method	Macro	Macro Parameters	Comment
1	5	1	1	8F	8260	09088DW.M\BFB.CMD		
6	6	1	1	8F	CLEAN			

Date	Vial	File Name	Sample ID	Amt.	Comments
9/2/98	1	09028F01	LAB Blank	5ml Purge	
Sep 2	1	02	5 PPb		
OTIS	1	03	10 PPb		
98685	1	04	20 PPb		
	1	05	50 PPb		
	1	06	100PPb		
9/3/98	1	09038F02	LAB Blank	5ml Purge	EMV - 254 - [illegible]
Sep 3	1	03	50 PPb		EMV - @ 222 9/9
OTIS	2	04	LAB Blank		
98685	2	05	Trip Blank		
	3	06	KVDP-1		
	4	07	KVDP-2 50X		
	5	08	KVDP-3		
	6	09	KVDP-4 5X		
	7	10	KVDP-5 25X		
	8	11	KVDP-6		
	9	12	KVDP-7		
	10	13	KVDP-8 25X		
	11	14	KVDP-9		
	12	15	KVDP-10 5X		
	13	16	KVDP-1 MS		
	14	17	KVDP-1 MSD		
	1	18	50PPb		
9/8/98	1	09088F01	LAB Blank	25ml Purge	
Sep 08	1	02	1 PPb		
Kotney Kelly	1	03	2 PPb		
98726	1	04	5 PPb		
DW	1	05	10 PPb		
	1	06	20 PPb		
	1	07	10 PPb		
	2	[illegible]	[illegible]		

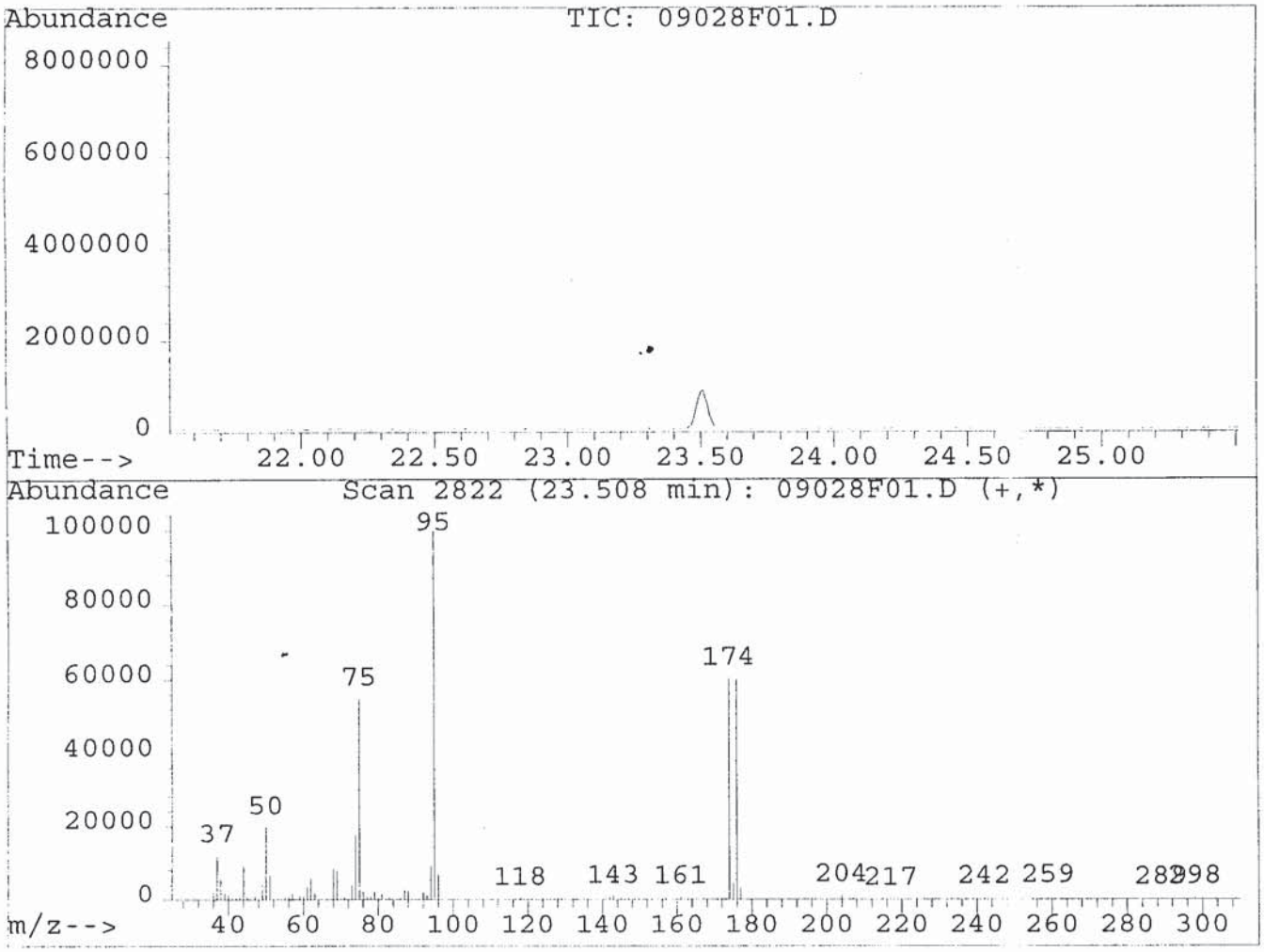
Date	Vial	File Name	Sample ID	Amt.	Comments
9/24/98	1	09248F01	LAB Blank	5ml Purge	BFB
Sep 24	1	02	50 PPb		
NWI RP	2	03	LAB Blank		
98722	2	04	Method Blank 50X		
HW	3	05	MW-285-23-25 50X		
(Soil)	4	06	MW285-23-25 MS 50X		
	5	07	MW285-23-25 MSD 50X		
	1	08	50 PPb		

Initial Calibration

BFB.524

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F01.D Vial: 3
Acq On : 2 Sep 98 08:31 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\07228DWU.M
Title : VOA Standards for 5 point calibration



Peak Apex is scan: : Scan 2822 (23.508 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	19771	PASS
75	95	30	60	54.9	54924	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.3	7328	PASS
173	174	0	2	1.4	828	PASS
174	95	50	100	60.3	60255	PASS
175	174	5	9	7.4	4450	PASS
176	174	95	101	99.7	60059	PASS
177	176	5	9	5.7	3403	PASS

09028F01.D 07228DWU.M Wed Sep 02 09:19:55 1998

Response Factor Report Finnigan

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Initial Calibration

Calibration Files
1 =09028F02.D 2 =09028F04.D 3 =09028F05.D
4 =09028F06.D 5 =09028F03.D

		Compound	1	2	3	4	5	Avg	%RSD
1)		Pentafluorobenzene	----------ISTD----------						
2)	s	1,2-Dichloroethane-D4	0.829	0.905	0.844	0.841	0.862	0.9	3.47
3)		Chloromethane	1.332	1.368	1.346	1.502	1.186	1.3	8.35
4)		Vinyl Chloride	1.234	1.324	1.353	1.487	1.263	1.3	7.40
5)		Bromomethane	0.499	0.496	0.522	0.623	0.508	0.5	10.04
6)		Chloroethane	0.678	0.805	0.839	0.868	0.753	0.8	9.55
7)		Trichlorofluoromethan	1.018	1.208	1.183	1.249	1.038	1.1	9.16
8)		Ethyl Ether	0.725	0.702	0.764	0.765	0.679	0.7	5.20
9)		Acreolin	0.161	0.174	0.165	0.176	0.160	0.2	4.63
10)		2-Propanone (acetone)	0.275	0.275	0.242	0.240	0.299	0.3	9.44
11)		1,1,2-Trichloro-1,2,2	0.420	0.457	0.486	0.546	0.494	0.5	9.68
12)		1,1-Dichloroethylene	0.712	0.696	0.681	0.690	0.624	0.7	4.92
13)		Carbon Disulfide	2.865	2.882	2.814	2.771	2.622	2.8	3.72
14)		Dichlorodifluorometha	0.546	0.605	0.599	0.624	0.503	0.6	8.65
15)		Methylene Chloride	0.856	0.914	0.895	0.902	0.853	0.9	3.12
16)		Acrylonitrile	0.382	0.373	0.389	0.379	0.387	0.4	1.71
17)		Methyl-t-Butyl Ether	2.557	2.735	2.652	2.627	2.608	2.6	2.48
18)		Trans-1,2-Dichloroeth	0.668	0.829	0.767	0.735	0.682	0.7	8.91
19)		1,1-dichloroethane	1.126	1.348	1.314	1.413	1.227	1.3	8.68
20)		Vinyl Acetate	0.190	0.185	0.173	0.194	0.181	0.2	4.42
21)		2-Butanone (MEK)	0.390	0.369	0.394	0.399	0.371	0.4	3.58
22)		2,2-Dichloropropane	0.878	1.048	1.068	1.138	1.034	1.0	9.24
23)		cis-1,2-Dichloroethyl	0.612	0.701	0.692	0.701	0.628	0.7	6.48
24)		Chloroform	1.073	1.184	1.162	1.178	1.167	1.2	3.93
25)		Bromochloromethane	0.284	0.309	0.315	0.338	0.255	0.3	10.55
26)		Tetrahydrofuran	0.062	0.063	0.065	0.070	0.070	0.1	5.61
27)		1,1,1-Trichloroethane	0.851	0.878	0.883	0.919	0.878	0.9	2.72
28)		1,4-Difluorobenzene	----------ISTD----------						
29)	s	Toluene-D8	1.106	1.123	1.137	1.118	1.134	1.1	1.10
30)		1,2-Dichloroethane	0.537	0.616	0.629	0.633	0.629	0.6	6.69
31)		Carbon tetrachloride	0.291	0.362	0.375	0.395	0.330	0.4	11.68
32)		Benzene	1.591	1.522	1.501	1.508	1.525	1.5	2.33
33)		Fluorobenzene	0.133	0.030	0.010	0.006	8.289	1.7	217.75
34)		c-1,3-dichloropropene	0.565	0.611	0.648	0.682	0.517	0.6	10.79
35)		Toluene	1.333	1.454	1.449	1.551	1.347	1.4	6.26
36)		t-1,3-Dichloropropene	0.491	0.533	0.599	0.621	0.470	0.5	12.12
37)		1,1,2-Trichloroethane	0.210	0.266	0.286	0.295	0.230	0.3	14.15
38)		Dibromochloromethane	0.169	0.196	0.229	0.227	0.169	0.2	14.99
39)		Chlorobenzene	0.488	0.549	0.596	0.633	0.599	0.6	9.78
40)		Chlorobenzene-D5	----------ISTD----------						

(#) = Out of Range

Response Factor Report Finnigan

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Initial Calibration

Calibration Files
1 =09028F02.D 2 =09028F04.D 3 =09028F05.D
4 =09028F06.D 5 =09028F03.D

		Compound	1	2	3	4	5	Avg	%RSD
41)	s	1,4-Bromofluorobenzen	0.553	0.543	0.552	0.591	0.582	0.6	3.69
42)		1,1-Dichloropropene	0.602	0.584	0.556	0.621	0.531	0.6	6.20
43)		Trichloroethylene	0.337	0.363	0.382	0.393	0.346	0.4	6.46
44)		1,2-Dichloropropane	0.391	0.453	0.432	0.481	0.386	0.4	9.47
45)		Bromodichloromethane	0.444	0.488	0.520	0.572	0.475	0.5	9.71
46)		Dibromomethane	0.194	0.208	0.244	0.259	0.238	0.2	11.61
47)		2-Chloroethylvinyleth	0.130	0.151	0.144	0.160	0.129	0.1	9.47
48)		4-Methyl-2-Pentanone(	0.501	0.469	0.532	0.555	0.434	0.5	9.69
49)		1,3-Dichloropropane	0.596	0.746	0.760	0.774	0.661	0.7	10.77
50)		Tetrachloroethylene	0.290	0.365	0.340	0.346	0.315	0.3	8.78
51)		1,2-Dibromomethane	0.254	0.313	0.344	0.359	0.326	0.3	12.77
52)		2-Hexanone	0.264	0.302	0.301	0.321	0.294	0.3	6.91
53)		1,1,1,2-Tetrachloroet	0.256	0.292	0.309	0.338	0.266	0.3	11.32
54)		Ethylbenzene	1.794	1.694	1.782	1.808	1.681	1.8	3.41
55)		META/PARA XYLENE	0.677	0.632	0.652	0.686	0.630	0.7	3.89
56)		Ortho Xylene	0.614	0.596	0.628	0.674	0.531	0.6	8.59
57)		Styrene	1.002	1.013	1.099	1.173	0.968	1.1	7.94
58)		BROMOFORM	0.152	0.143	0.187	0.208	0.184	0.2	15.30
59)		1,1,2,2-Tetrachloroet	0.435	0.425	0.485	0.516	0.422	0.5	9.10
60)		1,4-Dichlorobenzene-D	----------ISTD----------						
61)		Isopropylbenzene(ben1	3.309	3.586	3.855	4.179	3.546	3.7	9.00
62)		Bromobenzene	0.679	0.760	0.800	0.896	0.657	0.8	12.73
63)		1,2,3-Trichloropropan	0.716	0.845	0.980	0.899	0.743	0.8	13.05
64)		N-Propylbenzene	4.425	4.885	5.046	5.249	4.369	4.8	8.05
65)		2-Chlorotoluene	0.684	0.778	0.829	0.885	0.670	0.8	12.02
66)		4-Chlorotoluene	2.645	2.953	2.999	3.121	2.804	2.9	6.34
67)		Tert-Butylbenzene(ben	2.138	2.525	2.615	2.802	2.312	2.5	10.46
68)		1,3,5-Trimethylbenzen	2.553	2.750	3.022	3.289	2.581	2.8	11.03
69)		1,2,4-Trimethylbenzen	2.560	2.788	3.122	3.370	2.658	2.9	11.66
70)		Sec-Butylbenzene(Ben-	3.154	3.816	3.969	4.163	3.558	3.7	10.50
71)		1,3-dichlorobenzene	1.216	1.499	1.582	1.681	1.401	1.5	12.07
72)		Para-Isopropyltoluene	2.138	2.525	2.615	2.802	2.312	2.5	10.46
73)		1,4-Dichlorobenzene	1.216	1.543	1.615	1.695	1.411	1.5	12.57
74)		1,2-Dichlorobenzene	1.218	1.418	1.487	1.635	1.344	1.4	10.97
75)		N-Butylbenzene	1.681	1.897	1.988	2.125	1.685	1.9	10.31
76)		1,2-Dibromo-3-Chlorop	0.141	0.143	0.170	0.188	0.156	0.2	12.26
77)		1,2,4-Trichlorobenzen	0.898	0.977	1.055	1.186	0.887	1.0	12.36
78)		Hexachlorobutadiene	0.466	0.443	0.427	0.474	0.350	0.4	11.38
79)		Naphthalene	2.185	2.469	2.784	2.970	2.221	2.5	13.67
80)		1,2,3-Trichlorobenzen	0.863	0.852	0.968	1.068	0.795	0.9	11.96

(#) = Out of Range

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D Vial: 3
Acq On : 2 Sep 98 09:25 Operator:
Sample : 5 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:33 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\JULY28\0728F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.80	168	842761	50.00 ug/l	-0.06 14.32%
28) 1,4-Difluorobenzene	13.07	114	1500005	50.00 ug/l	-0.06 14.74%
40) Chlorobenzene-D5	20.38	117	1308392	50.00 ug/l	-0.05 14.38%
60) 1,4-Dichlorobenzene-D4	26.54	152	622621	50.00 ug/l	-0.04 15.86%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.19	65	349423	25.38 ug/l	101.54%
29) Toluene-D8	16.63	98	829566	24.94 ug/l	99.75%
41) 1,4-Bromofluorobenzene	23.52	95	361991	25.44 ug/l	101.74%

Target Compounds					Qvalue
3) Chloromethane	3.33	50	112227	4.87 ug/l #	89
4) Vinyl Chloride	3.53	62	103966	5.10 ug/l	97
5) Bromomethane	4.36	94	42081	3.26 ug/l #	68
6) Chloroethane	4.53	64	57107	4.41 ug/l #	2
7) Trichlorofluoromethane	5.04	101	85818	4.86 ug/l	96
8) Ethyl Ether	5.68	45	183231	16.71 ug/l #	86
9) Acreolin	11.53	56	135293	52.57 ug/l #	92
10) 2-Propanone (acetone)	6.11	43	46377	10.03 ug/l m	99
11) 1,1,2-Trichloro-1,2,2-Trif	5.95	151	35414	4.12 ug/l	100
12) 1,1-Dichloroethylene	6.32	96	59975	5.47 ug/l #	79
13) Carbon Disulfide	7.34	76	724381	18.37 ug/l	100
14) Dichlorodifluoromethane	2.90	85	46053	4.02 ug/l #	39
15) Methylene Chloride	7.35	84	72165	4.90 ug/l	91
16) Acrylonitrile	7.64	53	160955	26.42 ug/l #	83
17) Methyl-t-Butyl Ether	7.73	73	215467	5.64 ug/l	96
18) Trans-1,2-Dichloroethylene	7.98	96	56280	5.07 ug/l #	1
19) 1,1-dichloroethane	8.92	63	94858	4.32 ug/l #	88
20) Vinyl Acetate	7.34	86	48157	15.66 ug/l #	1
21) 2-Butanone (MEK)	9.88	43	131563	18.95 ug/l #	92
22) 2,2-Dichloropropane	10.14	77	74009	4.44 ug/l #	48
23) cis-1,2-Dichloroethylene	10.24	96	51570	4.41 ug/l	82
24) Chloroform	10.59	83	90457	4.82 ug/l	91
25) Bromochloromethane	10.96	128	23968	4.38 ug/l m	39
26) Tetrahydrofuran	11.07	71	36619	30.71 ug/l	86
27) 1,1,1-Trichloroethane	11.48	97	71761	5.05 ug/l #	83
30) 1,2-Dichloroethane	12.40	62	80544	4.98 ug/l #	77

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D Vial: 3
Acq On : 2 Sep 98 09:25 Operator:
Sample : 5 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:33 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.06	117	43601	4.20 ug/l	#	70
32)	Benzene	12.44	78	238582	5.78 ug/l		100
34)	c-1,3-dichloropropene	16.06	75	84821	4.90 ug/l	#	56
35)	Toluene	16.83	91	199910	4.95 ug/l		99
36)	t-1,3-Dichloropropene	17.27	75	73621	5.02 ug/l		97
37)	1,1,2-Trichloroethane	17.65	83	31548	3.98 ug/l	#	77
38)	Dibromochloromethane	18.93	127	25342	4.07 ug/l	m	91
39)	Chlorobenzene	20.47	77	73258	4.46 ug/l	#	75
42)	1,1-Dichloropropene	11.83	75	78712	5.32 ug/l	#	82
43)	Trichloroethylene	13.82	95	44083	4.27 ug/l		97
44)	1,2-Dichloropropane	14.24	63	51218	4.41 ug/l	#	83
45)	Bromodichloromethane	14.78	83	58118	4.59 ug/l	#	96
46)	Dibromomethane	14.91	93	25386	3.91 ug/l	#	85
47)	2-Chloroethylvinylether	14.24	63	51218	13.22 ug/l		91
48)	4-Methyl-2-Pentanone(MIBK)	15.58	43	32793	2.72 ug/l	m	100
49)	1,3-Dichloropropane	18.26	76	77964	4.26 ug/l		96
50)	Tetrachloroethylene	18.41	166	37947	4.11 ug/l	#	91
51)	1,2-Dibromomethane	19.43	107	33172	3.77 ug/l		90
52)	2-Hexanone	17.67	43	21444	3.05 ug/l	#	46
53)	1,1,1,2-Tetrachloroethane	20.58	131	33466	4.51 ug/l	m	87
54)	Ethylbenzene	20.62	91	234667	6.00 ug/l		92
55)	META/PARA XYLENE	20.80	106	177178	11.71 ug/l		85
56)	Ortho Xylene	21.94	106	80295	5.22 ug/l		97
57)	Styrene	22.02	104	131060	5.06 ug/l	#	74
58)	BROMOFORM	22.89	173	19900	4.78 ug/l	m	66
59)	1,1,2,2-Tetrachloroethane	23.31	83	56964	5.16 ug/l	#	52
61)	Isopropylbenzene(ben1,meth	22.86	105	206051	4.86 ug/l		92
62)	Bromobenzene	24.02	156	42289	4.39 ug/l	#	84
63)	1,2,3-Trichloropropane	23.70	75	44596	4.41 ug/l	#	1
64)	N-Propylbenzene	23.91	91	275486	5.43 ug/l	#	90
65)	2-Chlorotoluene	24.38	126	42570	4.32 ug/l		85
66)	4-Chlorotoluene	24.49	91	164667	4.70 ug/l	m	97
67)	Tert-Butylbenzene(ben-1,1-	25.23	119	133105	4.57 ug/l		94
68)	1,3,5-Trimethylbenzene	24.33	105	158955	4.88 ug/l		94
69)	1,2,4-Trimethylbenzene	25.33	105	159387	4.80 ug/l		96
70)	Sec-Butylbenzene(Ben-1-Met	25.78	105	196356	4.64 ug/l		99
71)	1,3-dichlorobenzene	26.35	146	75720	4.00 ug/l		91
72)	Para-Isopropyltoluene(ben-	25.23	119	133105	4.57 ug/l	#	48
73)	1,4-Dichlorobenzene	26.35	146	75720	4.12 ug/l		93
74)	1,2-Dichlorobenzene	27.53	146	75865	4.42 ug/l		92
75)	N-Butylbenzene	25.23	91	104633	4.84 ug/l	#	43
76)	1,2-Dibromo-3-Chloropropan	29.42	75	8783	4.37 ug/l	m	0

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D Vial: 3
Acq On : 2 Sep 98 09:25 Operator:
Sample : 5 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:33 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.51	180	55941	4.59 ug/l m	94
78) Hexachlorobutadiene	31.81	225	28999	5.90 ug/l m	83
79) Naphthalene	32.12	128	136018	5.00 ug/l m	100
80) 1,2,3-Trichlorobenzene	32.70	180	53747	4.83 ug/l m	94

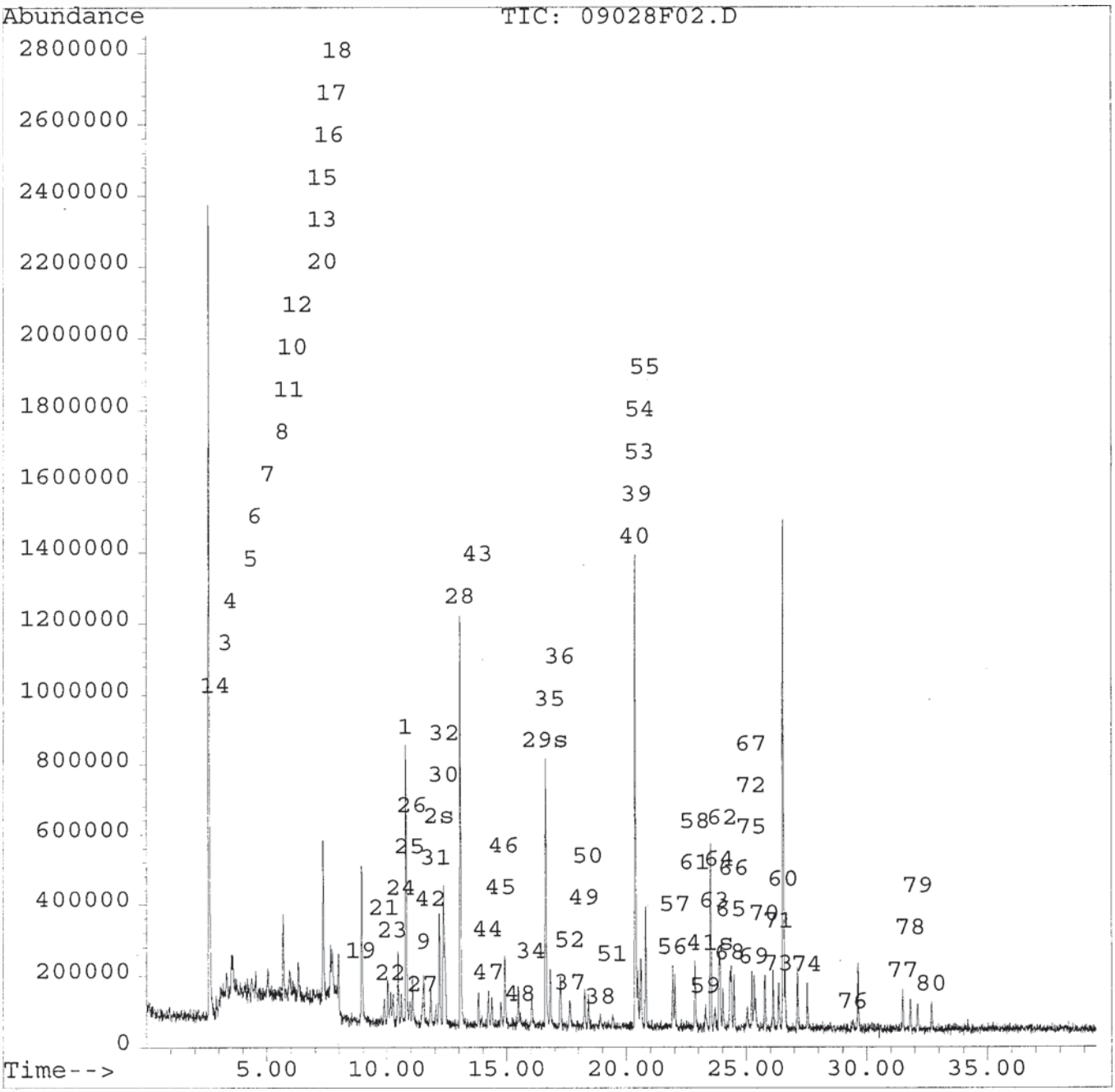
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D
Acq On : 2 Sep 98 09:25
Sample : 5 PPB
Misc :
Quant Time: Sep 3 14:33 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D Vial: 3
Acq On : 2 Sep 98 10:20 Operator:
Sample : 10 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:37 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.81	168	848492	50.00 ug/l	0.00 100.68%
28) 1,4-Difluorobenzene	13.08	114	1540616	50.00 ug/l	0.00 102.71%
40) Chlorobenzene-D5	20.39	117	1426656	50.00 ug/l	0.00 109.04%
60) 1,4-Dichlorobenzene-D4	26.55	152	638785	50.00 ug/l	0.00 102.60%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.20	65	365790	26.34 ug/l	105.36%
29) Toluene-D8	16.64	98	873227	25.62 ug/l	102.46%
41) 1,4-Bromofluorobenzene	23.53	95	415009	26.72 ug/l	106.86%

Target Compounds					Qvalue
3) Chloromethane	3.33	50	201261	8.76 ug/l	93
4) Vinyl Chloride	3.53	62	214385	10.37 ug/l	99
5) Bromomethane	4.37	94	86222	7.34 ug/l m	99
6) Chloroethane	4.53	64	127731	9.93 ug/l #	63
7) Trichlorofluoromethane	5.06	101	176173	9.90 ug/l	100
8) Ethyl Ether	5.69	45	345752	30.94 ug/l #	77
9) Acreolin	11.54	56	270899	104.33 ug/l #	93
10) 2-Propanone (acetone)	6.11	43	101379	19.40 ug/l m	100
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	83751	9.93 ug/l m	100
12) 1,1-Dichloroethylene	6.32	96	105921	9.46 ug/l	93
13) Carbon Disulfide	7.34	76	1334911	32.96 ug/l	100
14) Dichlorodifluoromethane	2.89	85	85282	7.56 ug/l	88
15) Methylene Chloride	7.37	84	144785	9.94 ug/l	95
16) Acrylonitrile	7.66	53	327996	53.02 ug/l #	85
17) Methyl-t-Butyl Ether	7.73	73	442632	11.35 ug/l	90
18) Trans-1,2-Dichloroethylene	7.99	96	115665	10.26 ug/l #	1
19) 1,1-dichloroethane	8.93	63	208268	9.64 ug/l #	94
20) Vinyl Acetate	7.37	86	92061	29.71 ug/l #	1
21) 2-Butanone (MEK)	9.89	43	251806	35.84 ug/l	97
22) 2,2-Dichloropropane	10.15	77	175499	10.61 ug/l #	77
23) cis-1,2-Dichloroethylene	10.26	96	106641	9.16 ug/l	91
24) Chloroform	10.60	83	198055	10.63 ug/l	94
25) Bromochloromethane	10.97	128	43277	8.38 ug/l #	77
26) Tetrahydrofuran	11.08	71	83655	71.40 ug/l	76
27) 1,1,1-Trichloroethane	11.49	97	148917	10.29 ug/l #	88
30) 1,2-Dichloroethane	12.42	62	193944	11.86 ug/l #	93

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D Vial: 3
Acq On : 2 Sep 98 10:20 Operator:
Sample : 10 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:37 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Carbon tetrachloride	12.05	117	101551	9.82	ug/l		82
32)	Benzene	12.45	78	469787	11.06	ug/l		100
34)	c-1,3-dichloropropene	16.06	75	159351	8.96	ug/l		96
35)	Toluene	16.84	91	415123	10.11	ug/l		97
36)	t-1,3-Dichloropropene	17.27	75	144841	9.48	ug/l		93
37)	1,1,2-Trichloroethane	17.66	83	70899	9.03	ug/l	#	82
38)	Dibromochloromethane	18.93	127	51939	8.40	ug/l		86
39)	Chlorobenzene	20.49	77	184591	11.23	ug/l		91
42)	1,1-Dichloropropene	11.84	75	151537	9.33	ug/l	#	83
43)	Trichloroethylene	13.83	95	98829	9.11	ug/l	#	71
44)	1,2-Dichloropropane	14.23	63	110119	8.99	ug/l	#	99
45)	Bromodichloromethane	14.79	83	135640	10.01	ug/l	#	84
46)	Dibromomethane	14.91	93	67887	10.18	ug/l		95
47)	2-Chloroethylvinylether	14.23	63	110119	26.96	ug/l		93
48)	4-Methyl-2-Pentanone(MIBK)	15.59	43	61987	5.09	ug/l	#	100
49)	1,3-Dichloropropane	18.27	76	188645	9.79	ug/l		96
50)	Tetrachloroethylene	18.43	166	89826	9.36	ug/l		98
51)	1,2-Dibromomethane	19.45	107	93090	10.08	ug/l		90
52)	2-Hexanone	17.68	43	52797	6.95	ug/l	#	95
53)	1,1,1,2-Tetrachloroethane	20.59	131	76013	9.89	ug/l	m	95
54)	Ethylbenzene	20.62	91	479601	11.00	ug/l		99
55)	META/PARA XYLENE	20.82	106	359433	21.31	ug/l		91
56)	Ortho Xylene	21.93	106	151514	8.91	ug/l		88
57)	Styrene	22.03	104	276295	9.82	ug/l		89
58)	BROMOFORM	22.91	173	52609	11.79	ug/l	m	95
59)	1,1,2,2-Tetrachloroethane	23.32	83	120538	9.92	ug/l		85
61)	Isopropylbenzene(ben1,meth	22.87	105	452995	10.54	ug/l		96
62)	Bromobenzene	24.03	156	83907	8.80	ug/l		95
63)	1,2,3-Trichloropropane	23.71	75	94963	9.52	ug/l	#	1
64)	N-Propylbenzene	23.92	91	558110	10.69	ug/l		96
65)	2-Chlorotoluene	24.37	126	85572	8.84	ug/l		87
66)	4-Chlorotoluene	24.50	91	358231	10.09	ug/l		96
67)	Tert-Butylbenzene(ben-1,1-	25.23	119	295411	10.10	ug/l		99
68)	1,3,5-Trimethylbenzene	24.33	105	329751	9.99	ug/l		87
69)	1,2,4-Trimethylbenzene	25.34	105	339520	10.11	ug/l		89
70)	Sec-Butylbenzene(Ben-1-Met	25.78	105	454579	10.73	ug/l		97
71)	1,3-dichlorobenzene	26.37	146	179022	9.78	ug/l		94
72)	Para-Isopropyltoluene(ben-	25.23	119	295411	10.10	ug/l	#	54
73)	1,4-Dichlorobenzene	26.63	146	180303	10.06	ug/l		92
74)	1,2-Dichlorobenzene	27.54	146	171704	10.02	ug/l	#	87
75)	N-Butylbenzene	25.24	91	215286	9.81	ug/l	#	48
76)	1,2-Dibromo-3-Chloropropan	29.43	75	19991	4.84	ug/l	m	57

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D Vial: 3
Acq On : 2 Sep 98 10:20 Operator:
Sample : 10 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:37 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

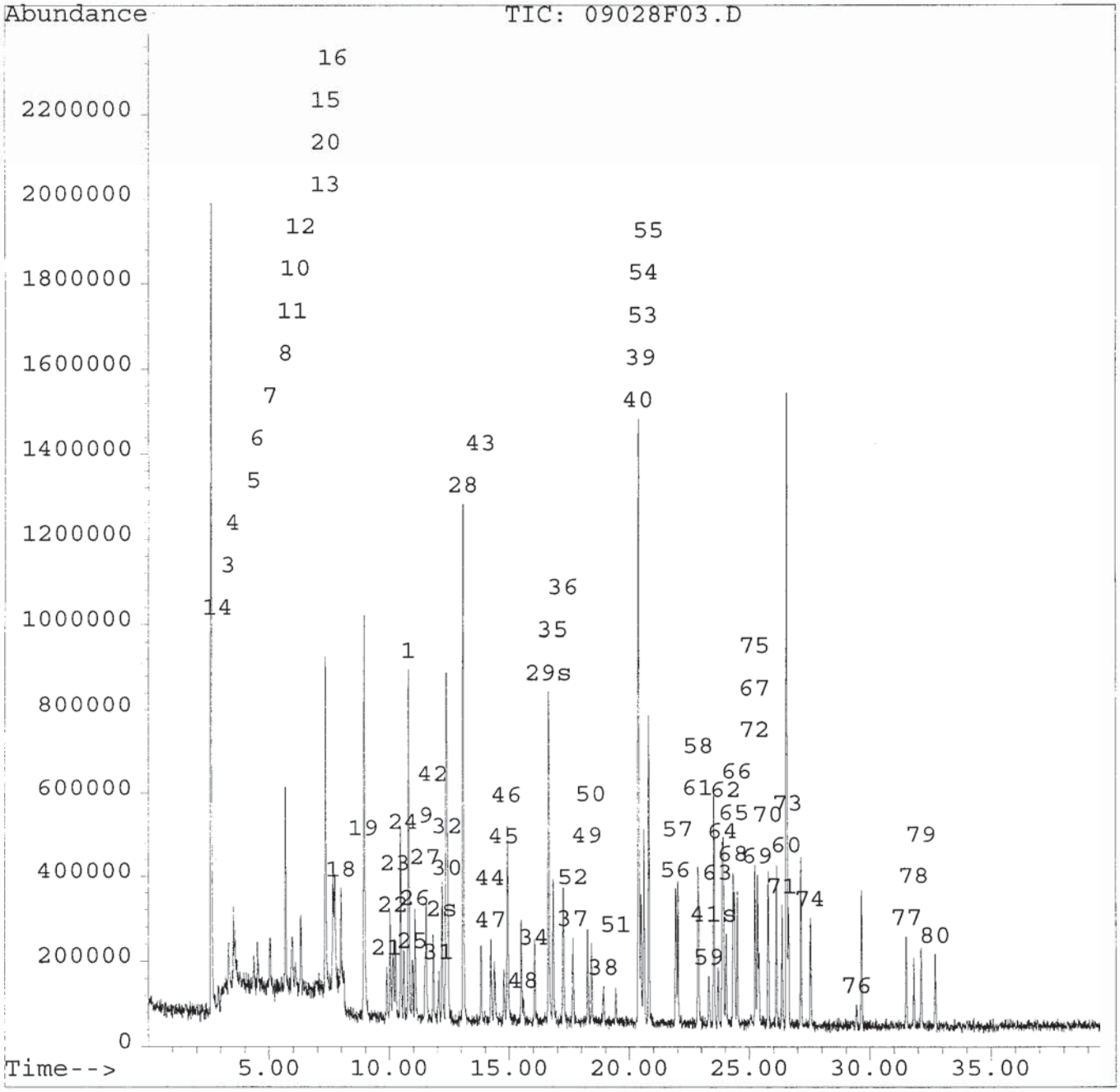
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.50	180	113366	9.36 ug/l #	95
78) Hexachlorobutadiene	31.82	225	44775	9.38 ug/l #	88
79) Naphthalene	32.13	128	283725	10.18 ug/l	100
80) 1,2,3-Trichlorobenzene	32.71	180	101504	9.34 ug/l	97

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F03.D Vial: 3
Acq On : 2 Sep 98 10:20 Operator:
Sample : 10 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:37 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D Vial: 3
Acq On : 2 Sep 98 11:16 Operator:
Sample : 20 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 2 12:00 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.81	168	850679	50.00	ug/l		0.00 100.94%
28) 1,4-Difluorobenzene	13.08	114	1549498	50.00	ug/l		0.00 103.30%
40) Chlorobenzene-D5	20.40	117	1398177	50.00	ug/l		0.00 106.86%
60) 1,4-Dichlorobenzene-D4	26.56	152	625268	50.00	ug/l		0.00 100.43%

System Monitoring Compounds							%Recovery
2) 1,2-Dichloroethane-D4	12.21	65	384884	27.23	ug/l		108.91%
29) Toluene-D8	16.66	98	870278	25.33	ug/l		101.30%
41) 1,4-Bromofluorobenzene	23.53	95	379872	24.62	ug/l		98.47%

Target Compounds							Qvalue
3) Chloromethane	3.34	50	465327	20.80	ug/l		97
4) Vinyl Chloride	3.53	62	450452	21.66	ug/l		100
5) Bromomethane	4.38	94	168904	16.22	ug/l		92
6) Chloroethane	4.54	64	273898	21.06	ug/l	#	25
7) Trichlorofluoromethane	5.06	101	410945	23.19	ug/l		90
8) Ethyl Ether	5.69	45	716717	63.06	ug/l	#	78
9) Acreolin	11.54	56	593314	224.73	ug/l		95
10) 2-Propanone (acetone)	6.12	43	186864	35.30	ug/l		99
11) 1,1,2-Trichloro-1,2,2-Trif	5.97	151	155389	19.69	ug/l		100
12) 1,1-Dichloroethylene	6.33	96	236977	21.31	ug/l		93
13) Carbon Disulfide	7.36	76	2941737	71.21	ug/l		100
14) Dichlorodifluoromethane	2.90	85	205874	19.10	ug/l	#	87
15) Methylene Chloride	7.37	84	310864	21.45	ug/l		99
16) Acrylonitrile	7.67	53	633936	101.17	ug/l	#	90
17) Methyl-t-Butyl Ether	7.74	73	930553	23.08	ug/l	#	90
18) Trans-1,2-Dichloroethylene	8.01	96	282099	24.74	ug/l	#	1
19) 1,1-dichloroethane	8.95	63	458589	21.25	ug/l		95
20) Vinyl Acetate	7.37	86	188581	60.12	ug/l	#	1
21) 2-Butanone (MEK)	9.90	43	502644	73.01	ug/l		96
22) 2,2-Dichloropropane	10.18	77	356632	21.10	ug/l	#	76
23) cis-1,2-Dichloroethylene	10.27	96	238587	20.94	ug/l		91
24) Chloroform	10.62	83	402921	21.30	ug/l		98
25) Bromochloromethane	10.97	128	105217	21.24	ug/l		93
26) Tetrahydrofuran	11.08	71	150780	129.27	ug/l		80
27) 1,1,1-Trichloroethane	11.49	97	298780	20.29	ug/l		97
30) 1,2-Dichloroethane	12.42	62	381715	22.54	ug/l		97

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D Vial: 3
Acq On : 2 Sep 98 11:16 Operator:
Sample : 20 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 2 12:00 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.08	117	224163	21.84 ug/l		87
32)	Benzene	12.46	78	943313	21.93 ug/l		100
34)	c-1,3-dichloropropene	16.08	75	378556	21.60 ug/l		92
35)	Toluene	16.85	91	900991	22.02 ug/l		93
36)	t-1,3-Dichloropropene	17.28	75	330326	21.59 ug/l		98
37)	1,1,2-Trichloroethane	17.66	83	165081	21.61 ug/l		85
38)	Dibromochloromethane	18.94	127	121343	20.26 ug/l		93
39)	Chlorobenzene	20.50	77	340527	20.40 ug/l	#	79
42)	1,1-Dichloropropene	11.86	75	326621	20.83 ug/l		92
43)	Trichloroethylene	13.83	95	202904	19.50 ug/l		95
44)	1,2-Dichloropropane	14.25	63	253418	21.43 ug/l	#	94
45)	Bromodichloromethane	14.80	83	272783	20.39 ug/l		99
46)	Dibromomethane	14.91	93	116577	17.83 ug/l	#	85
47)	2-Chloroethylvinylether	14.25	63	253418	64.29 ug/l	#	88
48)	4-Methyl-2-Pentanone(MIBK)	15.59	43	131040	11.14 ug/l	#	100
49)	1,3-Dichloropropane	18.28	76	417307	22.48 ug/l		93
50)	Tetrachloroethylene	18.43	166	204049	22.29 ug/l		90
51)	1,2-Dibromomethane	19.44	107	174948	19.39 ug/l		92
52)	2-Hexanone	17.68	43	105633	13.97 ug/l		99
53)	1,1,1,2-Tetrachloroethane	20.60	131	163456	22.39 ug/l		93
54)	Ethylbenzene	20.63	91	947384	22.01 ug/l		99
55)	META/PARA XYLENE	20.83	106	706542	42.16 ug/l		95
56)	Ortho Xylene	21.95	106	333133	20.35 ug/l		96
57)	Styrene	22.04	104	566273	20.57 ug/l		95
58)	BROMOFORM	22.93	173	79927	18.47 ug/l		90
59)	1,1,2,2-Tetrachloroethane	23.33	83	237899	19.93 ug/l		91
61)	Isopropylbenzene(ben1,meth	22.88	105	896799	21.16 ug/l		94
62)	Bromobenzene	24.04	156	190025	21.11 ug/l		94
63)	1,2,3-Trichloropropane	23.72	75	211230	21.87 ug/l	#	1
64)	N-Propylbenzene	23.93	91	1221718	23.93 ug/l		93
65)	2-Chlorotoluene	24.39	126	194506	21.13 ug/l		100
66)	4-Chlorotoluene	24.52	91	738607	21.51 ug/l		92
67)	Tert-Butylbenzene(ben-1,1-	25.25	119	631410	22.09 ug/l		98
68)	1,3,5-Trimethylbenzene	24.34	105	687729	21.31 ug/l		90
69)	1,2,4-Trimethylbenzene	25.34	105	697203	21.30 ug/l		92
70)	Sec-Butylbenzene(Ben-1-Met	25.79	105	954503	23.01 ug/l		99
71)	1,3-dichlorobenzene	26.38	146	374796	21.38 ug/l		90
72)	Para-Isopropyltoluene(ben-	25.25	119	631410	22.09 ug/l	#	52
73)	1,4-Dichlorobenzene	26.63	146	386036	22.24 ug/l		91
74)	1,2-Dichlorobenzene	27.55	146	354557	21.05 ug/l		96
75)	N-Butylbenzene	25.25	91	474424	22.06 ug/l	#	48
76)	1,2-Dibromo-3-Chloropropan	29.46	75	35681	8.80 ug/l	#	87

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D Vial: 3
Acq On : 2 Sep 98 11:16 Operator:
Sample : 20 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 2 12:00 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

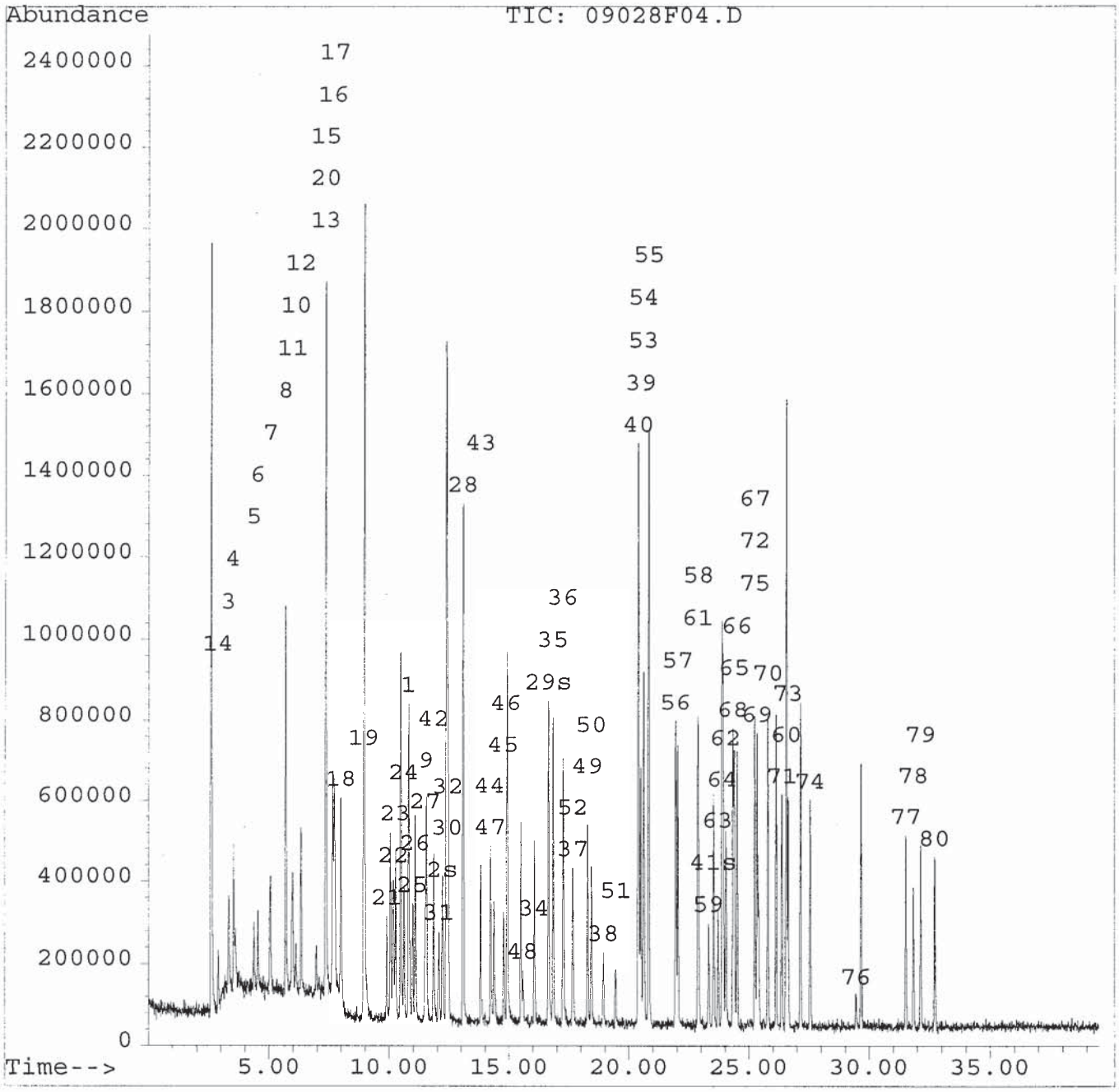
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.53	180	244315	20.88 ug/l	92
78) Hexachlorobutadiene	31.84	225	110711	24.06 ug/l	92
79) Naphthalene	32.14	128	617563	22.77 ug/l	100
80) 1,2,3-Trichlorobenzene	32.73	180	213105	20.41 ug/l	97

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F04.D Vial: 3
Acq On : 2 Sep 98 11:16 Operator:
Sample : 20 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 2 12:00 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D Vial: 3
Acq On : 2 Sep 98 12:11 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:18 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.82	168	845228	50.00 ug/l	0.00 100.29%
28) 1,4-Difluorobenzene	13.09	114	1532545	50.00 ug/l	0.00 102.17%
40) Chlorobenzene-D5	20.41	117	1415141	50.00 ug/l	0.00 108.16%
60) 1,4-Dichlorobenzene-D4	26.56	152	605965	50.00 ug/l	0.00 97.32%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.22	65	356543	24.76 ug/l	99.04%
29) Toluene-D8	16.66	98	870956	25.62 ug/l	102.49%
41) 1,4-Bromofluorobenzene	23.54	95	390449	25.13 ug/l	100.54%

Target Compounds					Qvalue
3) Chloromethane	3.33	50	1137442	51.31 ug/l	97
4) Vinyl Chloride	3.53	62	1143825	54.91 ug/l	100
5) Bromomethane	4.38	94	441548	46.74 ug/l	98
6) Chloroethane	4.54	64	709550	55.09 ug/l #	7
7) Trichlorofluoromethane	5.06	101	999834	55.58 ug/l	95
8) Ethyl Ether	5.70	45	1937698	169.26 ug/l #	80
9) Acreolin	11.56	56	1397967	520.76 ug/l #	93
10) 2-Propanone (acetone)	6.13	43	408485	76.50 ug/l	94
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	410750	54.36 ug/l	100
12) 1,1-Dichloroethylene	6.33	96	575562	51.08 ug/l	93
13) Carbon Disulfide	7.36	76	7134561	167.79 ug/l	100
14) Dichlorodifluoromethane	2.90	85	506559	49.04 ug/l	90
15) Methylene Chloride	7.38	84	756305	51.88 ug/l	97
16) Acrylonitrile	7.68	53	1644639	259.82 ug/l #	89
17) Methyl-t-Butyl Ether	7.74	73	2241208	53.96 ug/l #	89
18) Trans-1,2-Dichloroethylene	8.01	96	648007	54.56 ug/l #	1
19) 1,1-dichloroethane	8.94	63	1110752	51.37 ug/l	97
20) Vinyl Acetate	7.38	86	439000	140.80 ug/l #	1
21) 2-Butanone (MEK)	9.91	43	1331829	194.17 ug/l	95
22) 2,2-Dichloropropane	10.18	77	902636	53.21 ug/l #	79
23) cis-1,2-Dichloroethylene	10.28	96	584478	51.77 ug/l	81
24) Chloroform	10.63	83	982451	51.89 ug/l	100
25) Bromochloromethane	10.98	128	265866	54.46 ug/l	93
26) Tetrahydrofuran	11.09	71	386759	336.48 ug/l	87
27) 1,1,1-Trichloroethane	11.50	97	746503	50.58 ug/l	98
30) 1,2-Dichloroethane	12.43	62	963415	55.96 ug/l	100

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D Vial: 3
Acq On : 2 Sep 98 12:11 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:18 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.08	117	574553	56.46 ug/l		91
32)	Benzene	12.46	78	2300268	53.19 ug/l		100
34)	c-1,3-dichloropropene	16.07	75	992682	56.85 ug/l		97
35)	Toluene	16.85	91	2221076	54.36 ug/l		93
36)	t-1,3-Dichloropropene	17.28	75	917583	59.53 ug/l		99
37)	1,1,2-Trichloroethane	17.66	83	439042	58.04 ug/l		87
38)	Dibromochloromethane	18.94	127	350807	59.73 ug/l		96
39)	Chlorobenzene	20.50	77	913496	55.18 ug/l		82
42)	1,1-Dichloropropene	11.85	75	786600	49.32 ug/l		95
43)	Trichloroethylene	13.84	95	540761	52.62 ug/l		94
44)	1,2-Dichloropropane	14.26	63	612027	51.47 ug/l		99
45)	Bromodichloromethane	14.79	83	735215	54.35 ug/l	#	94
46)	Dibromomethane	14.92	93	344890	54.27 ug/l		93
47)	2-Chloroethylvinylether	14.26	63	612027	154.41 ug/l		92
48)	4-Methyl-2-Pentanone(MIBK)	15.59	43	376657	31.54 ug/l	#	100
49)	1,3-Dichloropropane	18.29	76	1074876	56.42 ug/l		95
50)	Tetrachloroethylene	18.44	166	480848	51.92 ug/l		97
51)	1,2-Dibromomethane	19.45	107	487471	54.32 ug/l		98
52)	2-Hexanone	17.69	43	268533	33.86 ug/l	#	88
53)	1,1,1,2-Tetrachloroethane	20.61	131	437957	59.10 ug/l		90
54)	Ethylbenzene	20.63	91	2521743	57.03 ug/l		99
55)	META/PARA XYLENE	20.83	106	1846497	107.99 ug/l		90
56)	Ortho Xylene	21.95	106	889295	53.59 ug/l		99
57)	Styrene	22.05	104	1555908	55.95 ug/l		86
58)	BROMOFORM	22.93	173	264429	60.96 ug/l		89
59)	1,1,2,2-Tetrachloroethane	23.33	83	686769	56.58 ug/l		92
61)	Isopropylbenzene(ben1,meth	22.89	105	2336125	56.73 ug/l		93
62)	Bromobenzene	24.05	156	484934	55.61 ug/l		91
63)	1,2,3-Trichloropropane	23.72	75	593768	62.23 ug/l	#	1
64)	N-Propylbenzene	23.94	91	3057937	60.10 ug/l		96
65)	2-Chlorotoluene	24.40	126	502454	56.51 ug/l		100
66)	4-Chlorotoluene	24.52	91	1817563	54.44 ug/l		92
67)	Tert-Butylbenzene(ben-1,1-	25.26	119	1584458	56.47 ug/l		97
68)	1,3,5-Trimethylbenzene	24.34	105	1831454	58.23 ug/l		93
69)	1,2,4-Trimethylbenzene	25.35	105	1891944	59.46 ug/l		88
70)	Sec-Butylbenzene(Ben-1-Met	25.79	105	2404826	58.70 ug/l		98
71)	1,3-dichlorobenzene	26.38	146	958860	56.48 ug/l		94
72)	Para-Isopropyltoluene(ben-	25.26	119	1584458	56.47 ug/l	#	51
73)	1,4-Dichlorobenzene	26.64	146	978760	57.75 ug/l		93
74)	1,2-Dichlorobenzene	27.56	146	900858	55.03 ug/l		96
75)	N-Butylbenzene	25.26	91	1204541	56.81 ug/l	#	49
76)	1,2-Dibromo-3-Chloropropan	29.45	75	102972	26.20 ug/l	m	89

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D Vial: 3
Acq On : 2 Sep 98 12:11 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:18 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	1,2,4-Trichlorobenzene	31.52	180	639223	56.60 ug/l	97
78)	Hexachlorobutadiene	31.83	225	258963	57.40 ug/l	94
79)	Naphthalene	32.14	128	1687299	63.53 ug/l	100
80)	1,2,3-Trichlorobenzene	32.72	180	586445	58.91 ug/l	98

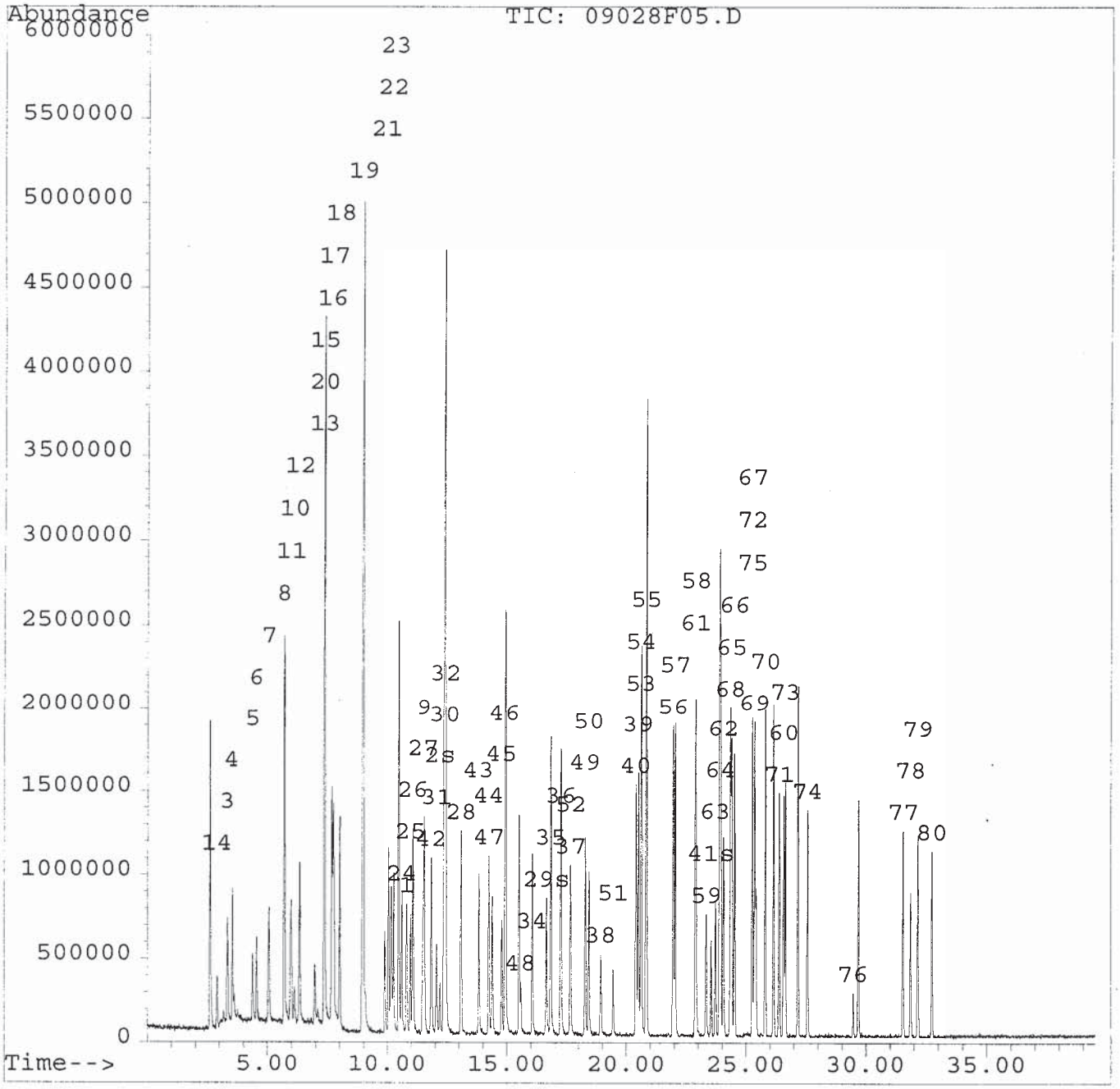
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F05.D
Acq On : 2 Sep 98 12:11
Sample : 50 PPB
Misc :
Quant Time: Sep 3 14:18 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D Vial: 3
Acq On : 2 Sep 98 13:12 Operator:
Sample : 100 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:20 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	817978	50.00 ug/l	0.00 97.06%
28) 1,4-Difluorobenzene	13.10	114	1481894	50.00 ug/l	0.00 98.79%
40) Chlorobenzene-D5	20.42	117	1342753	50.00 ug/l	0.00 102.63%
60) 1,4-Dichlorobenzene-D4	26.57	152	570586	50.00 ug/l	0.00 91.64%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	343825	24.62 ug/l	98.48%
29) Toluene-D8	16.66	98	828412	25.08 ug/l	100.33%
41) 1,4-Bromofluorobenzene	23.55	95	396748	26.85 ug/l	107.40%

Target Compounds					Qvalue
3) Chloromethane	3.34	50	2457328	114.76 ug/l	96
4) Vinyl Chloride	3.54	62	2432594	117.39 ug/l	99
5) Bromomethane	4.38	94	1019668	119.49 ug/l	97
6) Chloroethane	4.55	64	1419217	112.34 ug/l #	17
7) Trichlorofluoromethane	5.06	101	2043824	114.60 ug/l	96
8) Ethyl Ether	5.71	45	3752225	329.34 ug/l #	79
9) Acreolin	11.56	56	2885413	1099.53 ug/l #	92
10) 2-Propanone (acetone)	6.13	43	783774	153.63 ug/l	97
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	892597	124.35 ug/l	100
12) 1,1-Dichloroethylene	6.33	96	1129068	102.76 ug/l	94
13) Carbon Disulfide	7.37	76	13601193	308.86 ug/l	100
14) Dichlorodifluoromethane	2.91	85	1020040	105.08 ug/l	94
15) Methylene Chloride	7.38	84	1475703	103.51 ug/l	94
16) Acrylonitrile	7.68	53	3098000	504.46 ug/l #	91
17) Methyl-t-Butyl Ether	7.74	73	4297632	103.68 ug/l #	91
18) Trans-1,2-Dichloroethylene	8.02	96	1202252	101.52 ug/l #	1
19) 1,1-dichloroethane	8.95	63	2310995	111.02 ug/l	95
20) Vinyl Acetate	7.38	86	951672	319.93 ug/l #	1
21) 2-Butanone (MEK)	9.91	43	2613936	406.60 ug/l	95
22) 2,2-Dichloropropane	10.18	77	1861672	112.49 ug/l #	82
23) cis-1,2-Dichloroethylene	10.28	96	1147432	106.07 ug/l	88
24) Chloroform	10.63	83	1927161	104.44 ug/l	98
25) Bromochloromethane	10.98	128	553067	119.58 ug/l	94
26) Tetrahydrofuran	11.09	71	796321	734.12 ug/l	74
27) 1,1,1-Trichloroethane	11.51	97	1502666	105.21 ug/l	99
30) 1,2-Dichloroethane	12.43	62	1877167	108.85 ug/l	97

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D Vial: 3
Acq On : 2 Sep 98 13:12 Operator:
Sample : 100 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:20 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.08	117	1170090	117.01 ug/l		91
32)	Benzene	12.47	78	4469773	103.57 ug/l		100
34)	c-1,3-dichloropropene	16.08	75	2020251	117.31 ug/l		95
35)	Toluene	16.86	91	4598228	114.35 ug/l		94
36)	t-1,3-Dichloropropene	17.28	75	1840173	119.69 ug/l		92
37)	1,1,2-Trichloroethane	17.67	83	875078	118.17 ug/l		87
38)	Dibromochloromethane	18.95	127	673133	118.34 ug/l		99
39)	Chlorobenzene	20.51	77	1877110	115.08 ug/l		83
42)	1,1-Dichloropropene	11.86	75	1668584	110.53 ug/l		92
43)	Trichloroethylene	13.85	95	1055238	108.83 ug/l		91
44)	1,2-Dichloropropane	14.27	63	1292497	115.13 ug/l		99
45)	Bromodichloromethane	14.80	83	1535732	118.34 ug/l	#	94
46)	Dibromomethane	14.93	93	694407	115.35 ug/l		96
47)	2-Chloroethylvinylether	14.27	63	1292497	345.40 ug/l		91
48)	4-Methyl-2-Pentanone(MIBK)	15.60	43	745137	64.33 ug/l	#	100
49)	1,3-Dichloropropane	18.29	76	2077854	113.03 ug/l		98
50)	Tetrachloroethylene	18.45	166	928307	105.97 ug/l		96
51)	1,2-Dibromomethane	19.46	107	964880	113.55 ug/l		95
52)	2-Hexanone	17.69	43	542503	70.90 ug/l	#	84
53)	1,1,1,2-Tetrachloroethane	20.62	131	907524	127.56 ug/l		94
54)	Ethylbenzene	20.64	91	4856598	110.77 ug/l		99
55)	META/PARA XYLENE	20.84	106	3681992	220.11 ug/l		86
56)	Ortho Xylene	21.96	106	1811121	113.85 ug/l		99
57)	Styrene	22.05	104	3149036	117.18 ug/l		88
58)	BROMOFORM	22.93	173	558185	132.99 ug/l		96
59)	1,1,2,2-Tetrachloroethane	23.33	83	1385201	117.59 ug/l		93
61)	Isopropylbenzene(ben1,meth	22.89	105	4768643	119.79 ug/l		95
62)	Bromobenzene	24.06	156	1022363	122.92 ug/l		84
63)	1,2,3-Trichloropropane	23.73	75	1026227	109.92 ug/l	m	1
64)	N-Propylbenzene	23.94	91	5990081	118.69 ug/l		97
65)	2-Chlorotoluene	24.41	126	1009410	119.02 ug/l		94
66)	4-Chlorotoluene	24.53	91	3561560	111.51 ug/l		92
67)	Tert-Butylbenzene(ben-1,1-	25.26	119	3197064	118.43 ug/l		97
68)	1,3,5-Trimethylbenzene	24.35	105	3752874	122.40 ug/l		93
69)	1,2,4-Trimethylbenzene	25.36	105	3846029	123.85 ug/l		91
70)	Sec-Butylbenzene(Ben-1-Met	25.80	105	4751237	118.63 ug/l		98
71)	1,3-dichlorobenzene	26.38	146	1918326	117.81 ug/l		94
72)	Para-Isopropyltoluene(ben-	25.26	119	3197064	118.43 ug/l	#	52
73)	1,4-Dichlorobenzene	26.65	146	1933756	117.92 ug/l		94
74)	1,2-Dichlorobenzene	27.57	146	1866043	119.89 ug/l		95
75)	N-Butylbenzene	25.26	91	2424776	118.07 ug/l	#	48
76)	1,2-Dibromo-3-Chloropropan	29.46	75	214056	57.08 ug/l	m	89

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D Vial: 3
Acq On : 2 Sep 98 13:12 Operator:
Sample : 100 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 3 14:20 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.53	180	1353551	126.09 ug/l	98
78) Hexachlorobutadiene	31.84	225	540595	126.10 ug/l	98
79) Naphthalene	32.14	128	3389184	130.53 ug/l	100
80) 1,2,3-Trichlorobenzene	32.73	180	1219033	127.27 ug/l	97

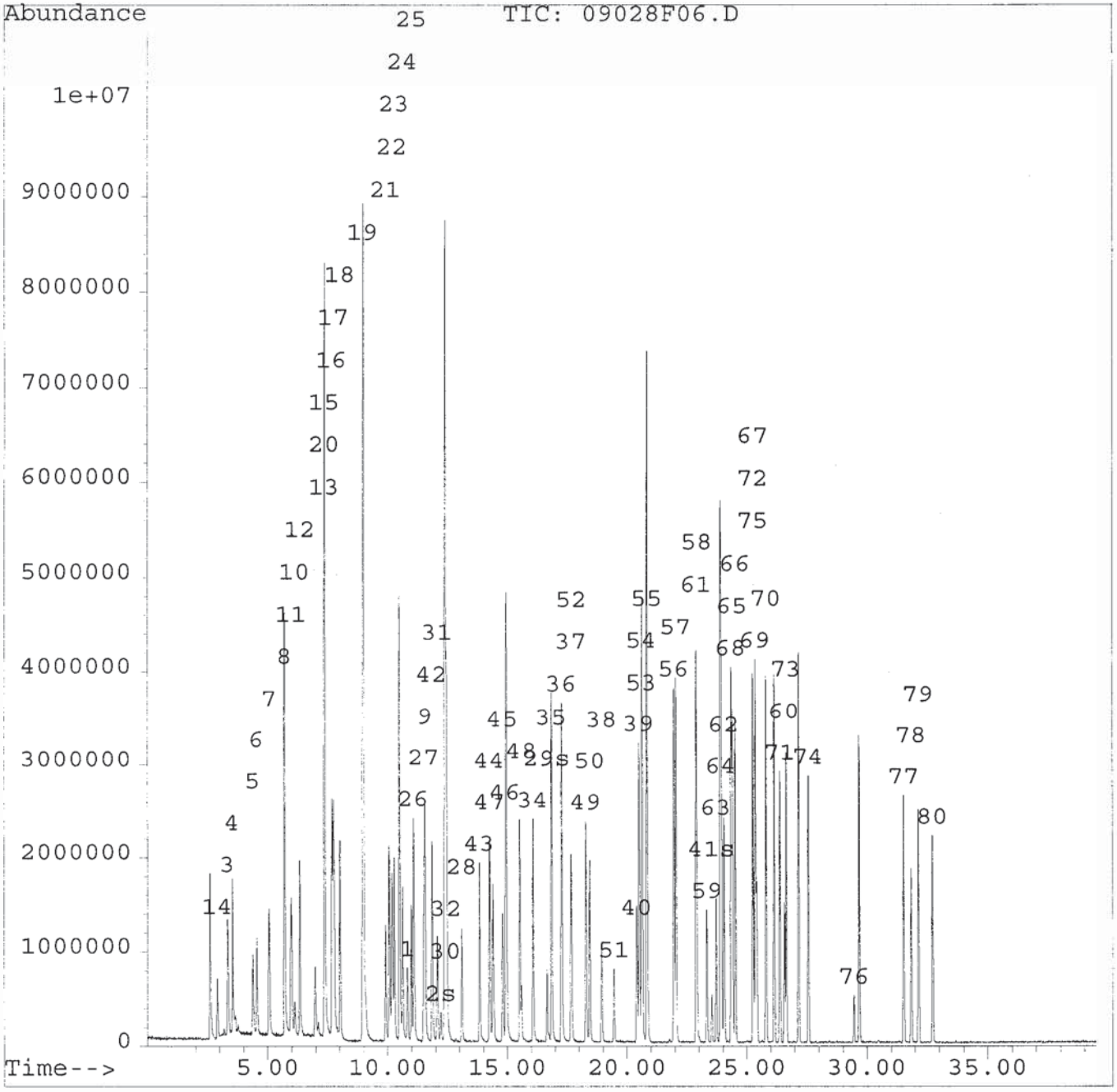
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP02\09028F06.D
Acq On : 2 Sep 98 13:12
Sample : 100 PPB
Misc :
Quant Time: Sep 3 14:20 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

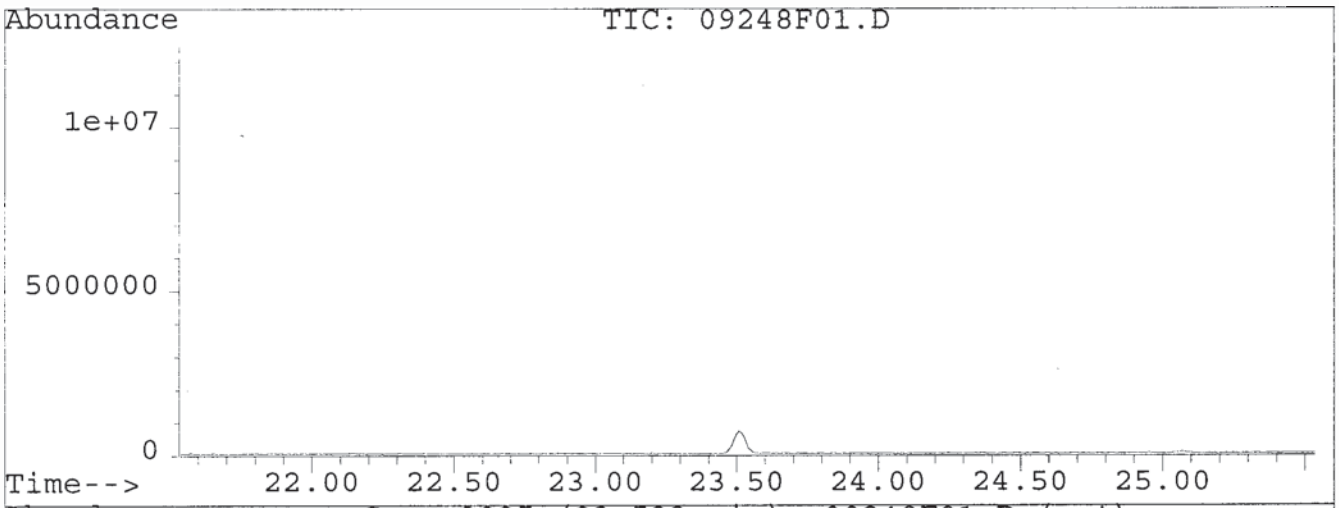


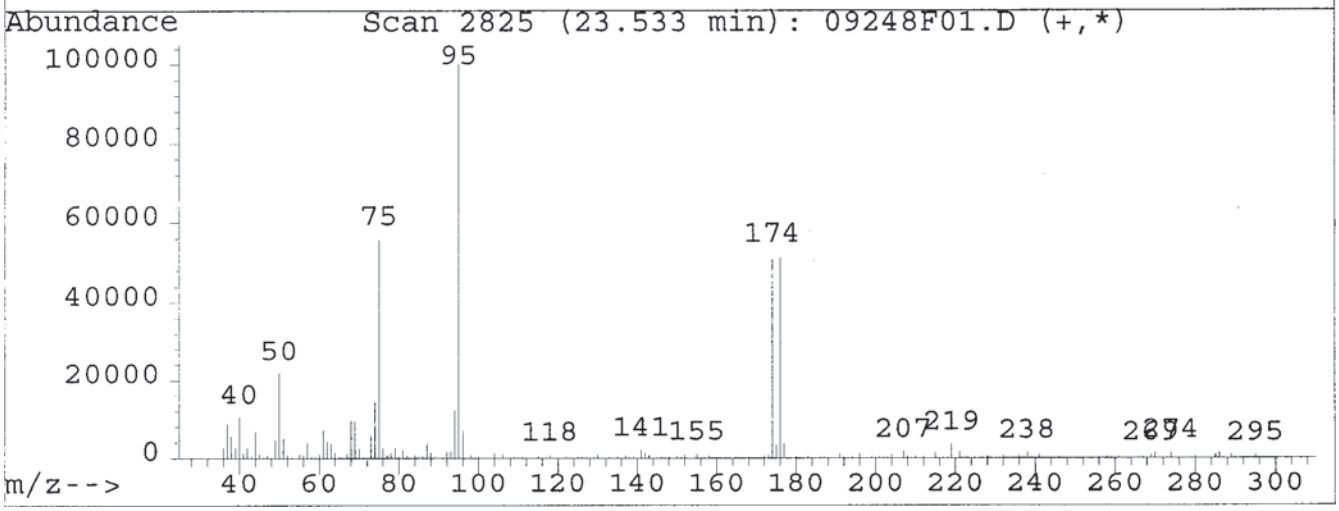
mydery

BFB

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F01.D Vial: 3
Acq On : 24 Sep 98 09:49 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :





Peak Apex is scan: : Scan 2825 (23.533 min)

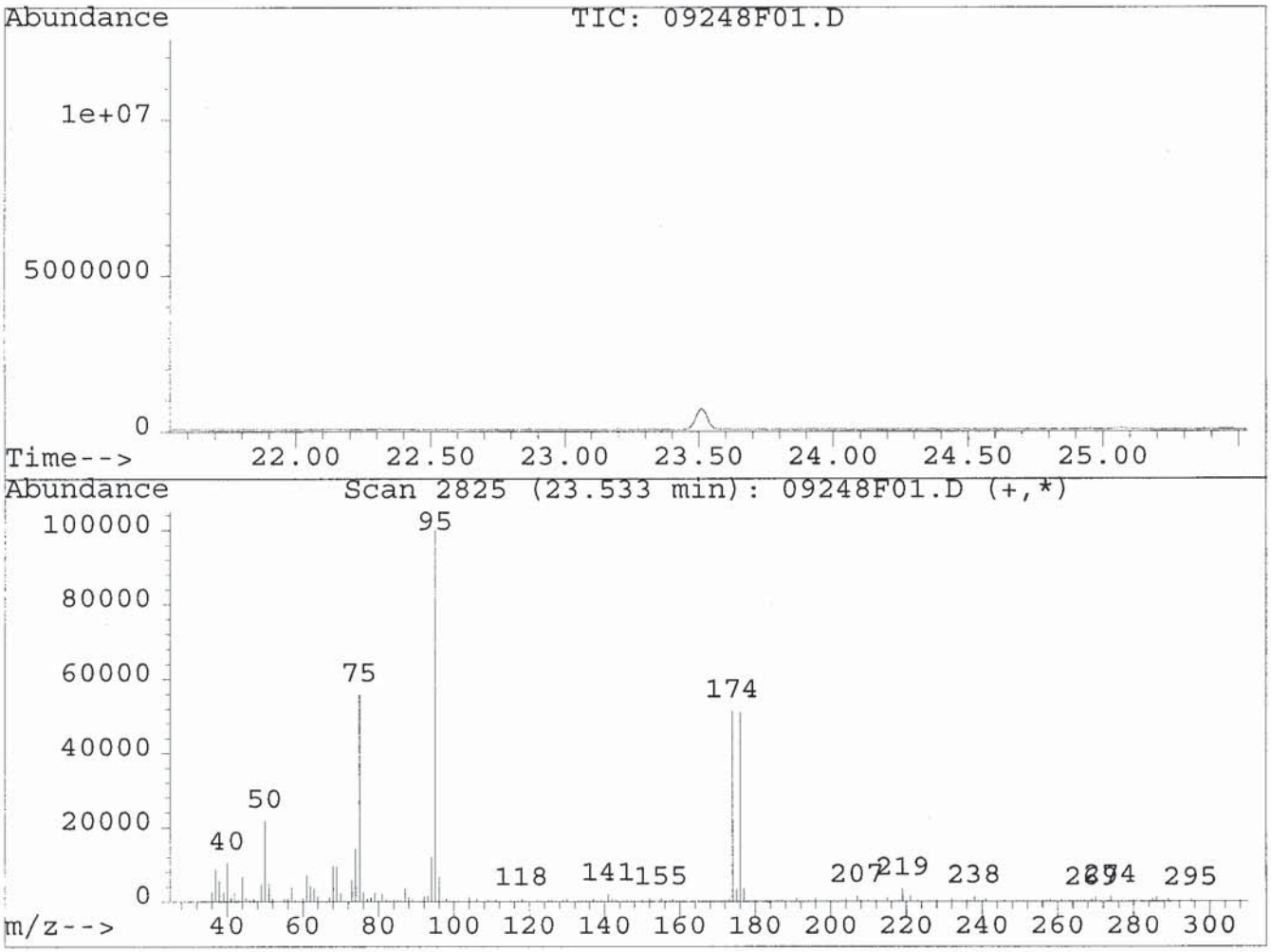
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	21796	PASS
75	95	30	60	55.9	55873	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.9	6868	PASS
173	174	0	2	1.6	826	PASS
174	95	50	100	51.4	51424	PASS
175	174	5	9	6.6	3385	PASS
176	174	95	101	99.5	51181	PASS
177	176	5	9	7.1	3619	PASS

09248F01.D 090298HW.M Thu Sep 24 10:46:14 1998

BFB

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F01.D Vial: 3
Acq On : 24 Sep 98 09:49 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :



Peak Apex is scan: : Scan 2825 (23.533 min)

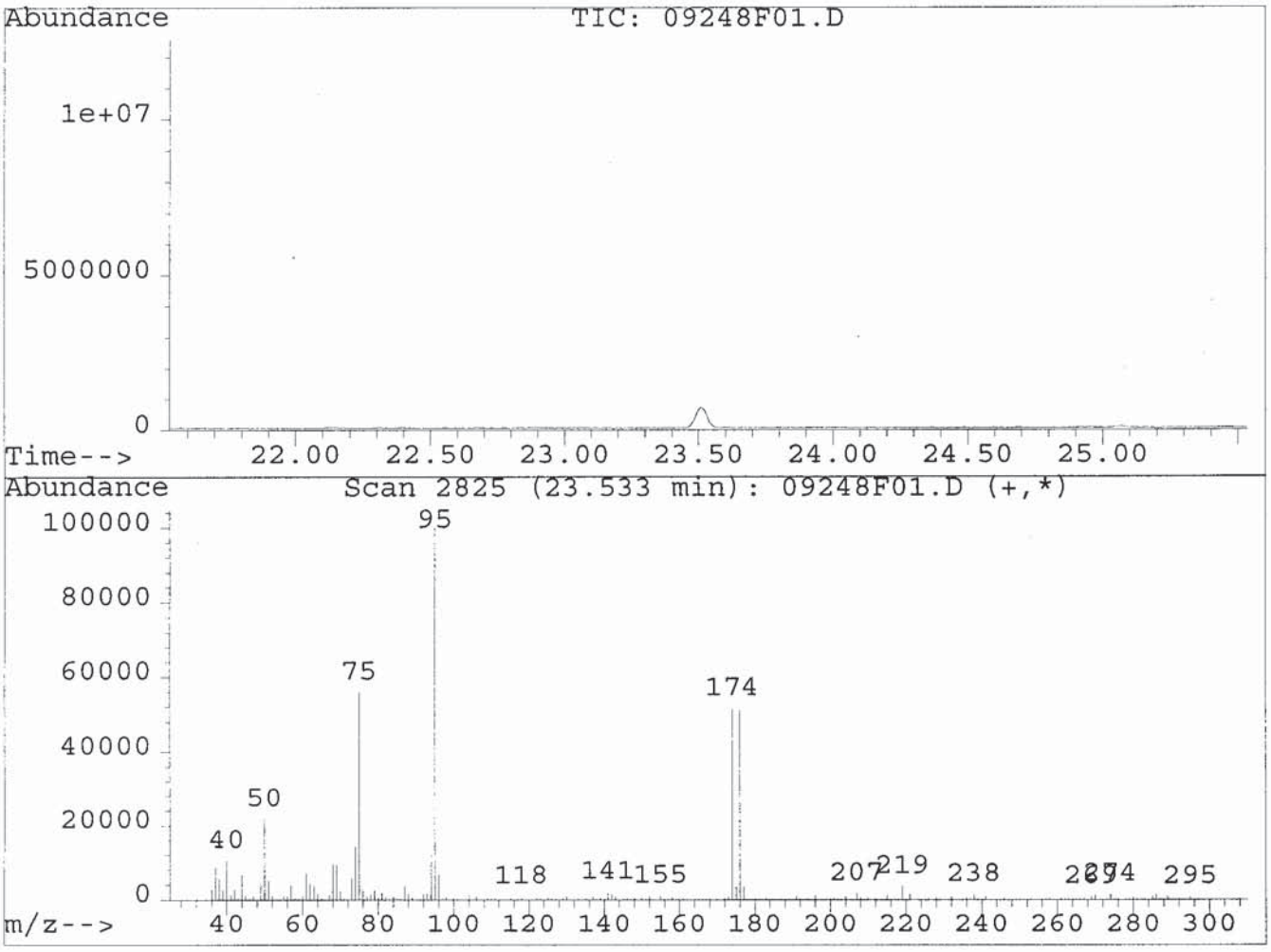
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	21796	PASS
75	95	30	60	55.9	55873	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.9	6868	PASS
173	174	0	2	1.6	826	PASS
174	95	50	100	51.4	51424	PASS
175	174	5	9	6.6	3385	PASS
176	174	95	101	99.5	51181	PASS
177	176	5	9	7.1	3619	PASS

09248F01.D 090298HW.M Thu Sep 24 10:46:23 1998

BFB

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F01.D Vial: 3
Acq On : 24 Sep 98 09:49 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :



Peak Apex is scan: : Scan 2825 (23.533 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	21796	PASS
75	95	30	60	55.9	55873	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.9	6868	PASS
173	174	0	2	1.6	826	PASS
174	95	50	100	51.4	51424	PASS
175	174	5	9	6.6	3385	PASS
176	174	95	101	99.5	51181	PASS
177	176	5	9	7.1	3619	PASS

09248F01.D 090298HW.M Thu Sep 24 10:46:32 1998

Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F02.D Vial: 1
Acq On : 24 Sep 98 11:16 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		Pentafluorobenzene	1.000	1.000	0.0	117	0.00
2	s	1,2-Dichloroethane-D4	0.856	0.863	-0.8	119	0.00
3		Chloromethane	1.347	1.359	-1.0	118	0.00
4		Vinyl Chloride	1.332	1.283	3.7	110	0.02
5		Bromomethane	0.530	0.478	9.8	107	0.02
6		Chloroethane	0.788	0.780	1.1	108	0.02
7		Trichlorofluoromethane	1.139	1.018	10.7	100	0.00
8		Ethyl Ether	0.727	0.796	-9.5	121	0.00
9		Acreolin	0.167	0.171	-2.4	121	0.00
10		2-Propanone (acetone)	0.266	0.258	3.0	124	0.00
11		1,1,2-Trichloro-1,2,2-Trifl	0.480	0.505	-5.1	121	0.00
12		1,1-Dichloroethylene	0.681	0.680	0.1	116	0.02
13		Carbon Disulfide	2.791	2.865	-2.7	119	0.02
14		Dichlorodifluoromethane	0.575	0.524	8.8	102	0.02
15		Methylene Chloride	0.884	0.918	-3.8	120	0.00
16		Acrylonitrile	0.382	0.436	-14.1	130	0.00
17		Methyl-t-Butyl Ether	2.636	2.766	-5.0	122	0.00
18		Trans-1,2-Dichloroethylene	0.736	0.816	-10.9	124	0.00
19		1,1-dichloroethane	1.285	1.394	-8.4	124	0.00
20		Vinyl Acetate	0.185	0.189	-2.5	127	0.00
21		2-Butanone (MEK)	0.385	0.397	-3.2	117	0.00
22		2,2-Dichloropropane	1.033	1.094	-5.9	119	0.02
23		cis-1,2-Dichloroethylene	0.667	0.728	-9.2	123	0.00
24		Chloroform	1.153	1.220	-5.8	122	0.00
25		Bromochloromethane	0.300	0.294	2.2	109	0.00
26		Tetrahydrofuran	0.066	0.069	-4.8	124	0.00
27		1,1,1-Trichloroethane	0.882	0.926	-5.0	122	0.00
28		1,4-Difluorobenzene	1.000	1.000	0.0	120	0.00
29	s	Toluene-D8	1.124	1.108	1.4	117	0.00
30		1,2-Dichloroethane	0.609	0.625	-2.7	119	0.00
31		Carbon tetrachloride	0.350	0.373	-6.4	119	0.00
32		Benzene	1.529	1.509	1.3	120	0.00
33		Fluorobenzene	1.693	0.000	100.0#	0#	-13.13#
34		c-1,3-dichloropropene	0.605	0.665	-10.0	123	0.00
35		Toluene	1.427	1.426	0.0	118	0.00
36		t-1,3-Dichloropropene	0.543	0.578	-6.4	115	0.00
37		1,1,2-Trichloroethane	0.258	0.293	-13.6	122	0.00
38		Dibromochloromethane	0.198	0.221	-11.6	115	0.00
39		Chlorobenzene	0.573	0.577	-0.6	116	0.00
40		Chlorobenzene-D5	1.000	1.000	0.0	115	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F02.D Vial: 1
Acq On : 24 Sep 98 11:16 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 03 14:37:54 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
41	s	1,4-Bromofluorobenzene	0.564	0.554	1.9	116	0.00
42		1,1-Dichloropropene	0.579	0.613	-5.9	127	0.00
43		Trichloroethylene	0.364	0.388	-6.6	117	0.00
44		1,2-Dichloropropane	0.429	0.474	-10.5	126	0.00
45		Bromodichloromethane	0.500	0.547	-9.4	121	0.00
46		Dibromomethane	0.229	0.257	-12.3	121	0.00
47		2-Chloroethylvinylether	0.143	0.158	-10.5	126	0.00
48		4-Methyl-2-Pentanone(MIBK)	0.498	0.540	-8.4	117	0.00
49		1,3-Dichloropropane	0.707	0.757	-7.0	115	0.02
50		Tetrachloroethylene	0.331	0.326	1.6	110	0.00
51		1,2-Dibromomethane	0.319	0.340	-6.6	114	0.00
52		2-Hexanone	0.296	0.330	-11.4	126	0.00
53		1,1,1,2-Tetrachloroethane	0.292	0.308	-5.5	115	0.00
54		Ethylbenzene	1.752	1.719	1.9	111	0.00
55		META/PARA XYLENE	0.655	0.636	2.9	112	0.00
56		Ortho Xylene	0.609	0.605	0.7	111	0.00
57		Styrene	1.051	1.023	2.7	107	0.00
58		BROMOFORM	0.175	0.184	-5.4	114	0.00
59		1,1,2,2-Tetrachloroethane	0.457	0.508	-11.1	121	0.00
60		1,4-Dichlorobenzene-D4	1.000	1.000	0.0	113	0.00
61		Isopropylbenzene(ben1,methy	3.695	3.754	-1.6	110	0.00
62		Bromobenzene	0.758	0.799	-5.4	113	0.02
63		1,2,3-Trichloropropane	0.837	0.984	-17.6	113	0.00
64		N-Propylbenzene	4.795	4.908	-2.4	110	0.00
65		2-Chlorotoluene	0.769	0.789	-2.6	107	0.02
66		4-Chlorotoluene	2.904	2.928	-0.8	110	0.00
67		Tert-Butylbenzene(ben-1,1-d	2.478	2.440	1.5	105	0.02
68		1,3,5-Trimethylbenzene	2.839	2.880	-1.5	108	0.00
69		1,2,4-Trimethylbenzene	2.900	2.970	-2.4	107	0.00
70		Sec-Butylbenzene(Ben-1-Meth	3.732	3.620	3.0	103	0.02
71		1,3-dichlorobenzene	1.476	1.438	2.6	103	0.00
72		Para-Isopropyltoluene(ben-1	2.478	2.440	1.5	105	0.02
73		1,4-Dichlorobenzene	1.496	1.485	0.8	104	0.00
74		1,2-Dichlorobenzene	1.420	1.358	4.4	103	0.00
75		N-Butylbenzene	1.875	1.829	2.5	104	0.00
76		1,2-Dibromo-3-Chloropropane	0.160	0.202	-26.5#	134	0.02
77		1,2,4-Trichlorobenzene	1.001	0.909	9.2	97	0.00
78		Hexachlorobutadiene	0.432	0.367	15.0	97	0.02
79		Naphthalene	2.526	2.537	-0.4	103	0.00
80		1,2,3-Trichlorobenzene	0.909	0.876	3.6	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F02.D Vial: 1
Acq On : 24 Sep 98 11:16 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 24 12:03 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.82	168	984863	50.00 ug/l	0.00 116.86%
28) 1,4-Difluorobenzene	13.08	114	1834378	50.00 ug/l	0.00 122.29%
40) Chlorobenzene-D5	20.39	117	1630511	50.00 ug/l	0.00 124.62%
60) 1,4-Dichlorobenzene-D4	26.56	152	684292	50.00 ug/l	0.00 109.91%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.21	65	425024	25.20 ug/l	100.82%
29) Toluene-D8	16.65	98	1016523	24.66 ug/l	98.64%
41) 1,4-Bromofluorobenzene	23.53	95	451278	24.53 ug/l	98.10%

Target Compounds						Qvalue
3) Chloromethane	3.33	50	1338836	50.48 ug/l		93
4) Vinyl Chloride	3.54	62	1263505	48.15 ug/l		98
5) Bromomethane	4.39	94	470967	45.12 ug/l		94
6) Chloroethane	4.55	64	767750	49.44 ug/l	#	17
7) Trichlorofluoromethane	5.06	101	1002521	44.67 ug/l		97
8) Ethyl Ether	5.70	45	2351142	164.20 ug/l	#	78
9) Acreolin	11.55	56	1686684	511.96 ug/l	#	93
10) 2-Propanone (acetone)	6.12	43	508208	97.02 ug/l	m	97
11) 1,1,2-Trichloro-1,2,2-Trif	5.97	151	497412	52.57 ug/l		100
12) 1,1-Dichloroethylene	6.33	96	669685	49.95 ug/l		98
13) Carbon Disulfide	7.36	76	8466208	154.01 ug/l		100
14) Dichlorodifluoromethane	2.91	85	516527	45.58 ug/l		89
15) Methylene Chloride	7.37	84	904103	51.92 ug/l		98
16) Acrylonitrile	7.67	53	2145205	285.25 ug/l	#	91
17) Methyl-t-Butyl Ether	7.73	73	2724295	52.48 ug/l	#	91
18) Trans-1,2-Dichloroethylene	8.00	96	803703	55.44 ug/l	#	1
19) 1,1-dichloroethane	8.93	63	1372439	54.20 ug/l		97
20) Vinyl Acetate	7.37	86	558907	153.70 ug/l	#	1
21) 2-Butanone (MEK)	9.90	43	1563744	206.32 ug/l	m	95
22) 2,2-Dichloropropane	10.17	77	1077895	52.96 ug/l	#	80
23) cis-1,2-Dichloroethylene	10.27	96	716929	54.58 ug/l		84
24) Chloroform	10.61	83	1201246	52.89 ug/l		99
25) Bromochloromethane	10.97	128	289331	48.92 ug/l	#	79
26) Tetrahydrofuran	11.08	71	477984	366.89 ug/l	m	78
27) 1,1,1-Trichloroethane	11.50	97	911898	52.50 ug/l		98
30) 1,2-Dichloroethane	12.42	62	1146717	51.34 ug/l		99

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F02.D Vial: 1
Acq On : 24 Sep 98 11:16 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 24 12:03 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Carbon tetrachloride	12.06	117	683843	53.21 ug/l		86
32)	Benzene	12.45	78	2767472	49.33 ug/l		100
34)	c-1,3-dichloropropene	16.07	75	1220269	55.02 ug/l		95
35)	Toluene	16.85	91	2616187	49.98 ug/l		92
36)	t-1,3-Dichloropropene	17.28	75	1059631	53.22 ug/l		95
37)	1,1,2-Trichloroethane	17.65	83	536788	56.78 ug/l		89
38)	Dibromochloromethane	18.93	127	405173	55.82 ug/l		99
39)	Chlorobenzene	20.49	77	1058265	50.32 ug/l		85
42)	1,1-Dichloropropene	11.85	75	999291	52.95 ug/l	#	91
43)	Trichloroethylene	13.83	95	632801	53.28 ug/l		93
44)	1,2-Dichloropropane	14.24	63	772930	55.27 ug/l		98
45)	Bromodichloromethane	14.79	83	891440	54.70 ug/l		99
46)	Dibromomethane	14.91	93	418564	56.16 ug/l		99
47)	2-Chloroethylvinylether	14.24	63	772930	165.80 ug/l		95
48)	4-Methyl-2-Pentanone(MIBK)	15.59	43	440416	27.10 ug/l	#	100
49)	1,3-Dichloropropane	18.28	76	1233558	53.48 ug/l		96
50)	Tetrachloroethylene	18.43	166	530925	49.18 ug/l		95
51)	1,2-Dibromomethane	19.44	107	554829	53.29 ug/l		97
52)	2-Hexanone	17.68	43	339102	35.08 ug/l	#	83
53)	1,1,1,2-Tetrachloroethane	20.60	131	502862	52.74 ug/l		95
54)	Ethylbenzene	20.63	91	2802831	49.06 ug/l		99
55)	META/PARA XYLENE	20.82	106	2074263	97.07 ug/l		88
56)	Ortho Xylene	21.94	106	985725	49.66 ug/l		100
57)	Styrene	22.03	104	1667276	48.65 ug/l		92
58)	BROMOFORM	22.92	173	300573	52.72 ug/l		97
59)	1,1,2,2-Tetrachloroethane	23.33	83	827971	55.57 ug/l		88
61)	Isopropylbenzene(ben1,meth	22.88	105	2568662	50.80 ug/l		96
62)	Bromobenzene	24.04	156	547017	52.70 ug/l		93
63)	1,2,3-Trichloropropane	23.71	75	673395	58.81 ug/l	#	1
64)	N-Propylbenzene	23.93	91	3358542	51.18 ug/l		94
65)	2-Chlorotoluene	24.39	126	539736	51.29 ug/l		99
66)	4-Chlorotoluene	24.51	91	2003697	50.41 ug/l		92
67)	Tert-Butylbenzene(ben-1,1-	25.25	119	1669904	49.24 ug/l		99
68)	1,3,5-Trimethylbenzene	24.33	105	1971022	50.73 ug/l		95
69)	1,2,4-Trimethylbenzene	25.34	105	2032253	51.21 ug/l		91
70)	Sec-Butylbenzene(Ben-1-Met	25.79	105	2477007	48.50 ug/l		100
71)	1,3-dichlorobenzene	26.37	146	984159	48.72 ug/l		96
72)	Para-Isopropyltoluene(ben-	25.25	119	1669904	49.24 ug/l	#	54
73)	1,4-Dichlorobenzene	26.63	146	1015850	49.61 ug/l		94
74)	1,2-Dichlorobenzene	27.55	146	929297	47.81 ug/l		95
75)	N-Butylbenzene	25.24	91	1251449	48.77 ug/l	#	48
76)	1,2-Dibromo-3-Chloropropan	29.45	75	138108	63.25 ug/l		93

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F02.D Vial: 1
Acq On : 24 Sep 98 11:16 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 24 12:03 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,4-Trichlorobenzene	31.51	180	621769	45.40 ug/l	98
78) Hexachlorobutadiene	31.83	225	251123	42.48 ug/l	97
79) Naphthalene	32.13	128	1735769	50.21 ug/l	100
80) 1,2,3-Trichlorobenzene	32.72	180	599498	48.18 ug/l	96

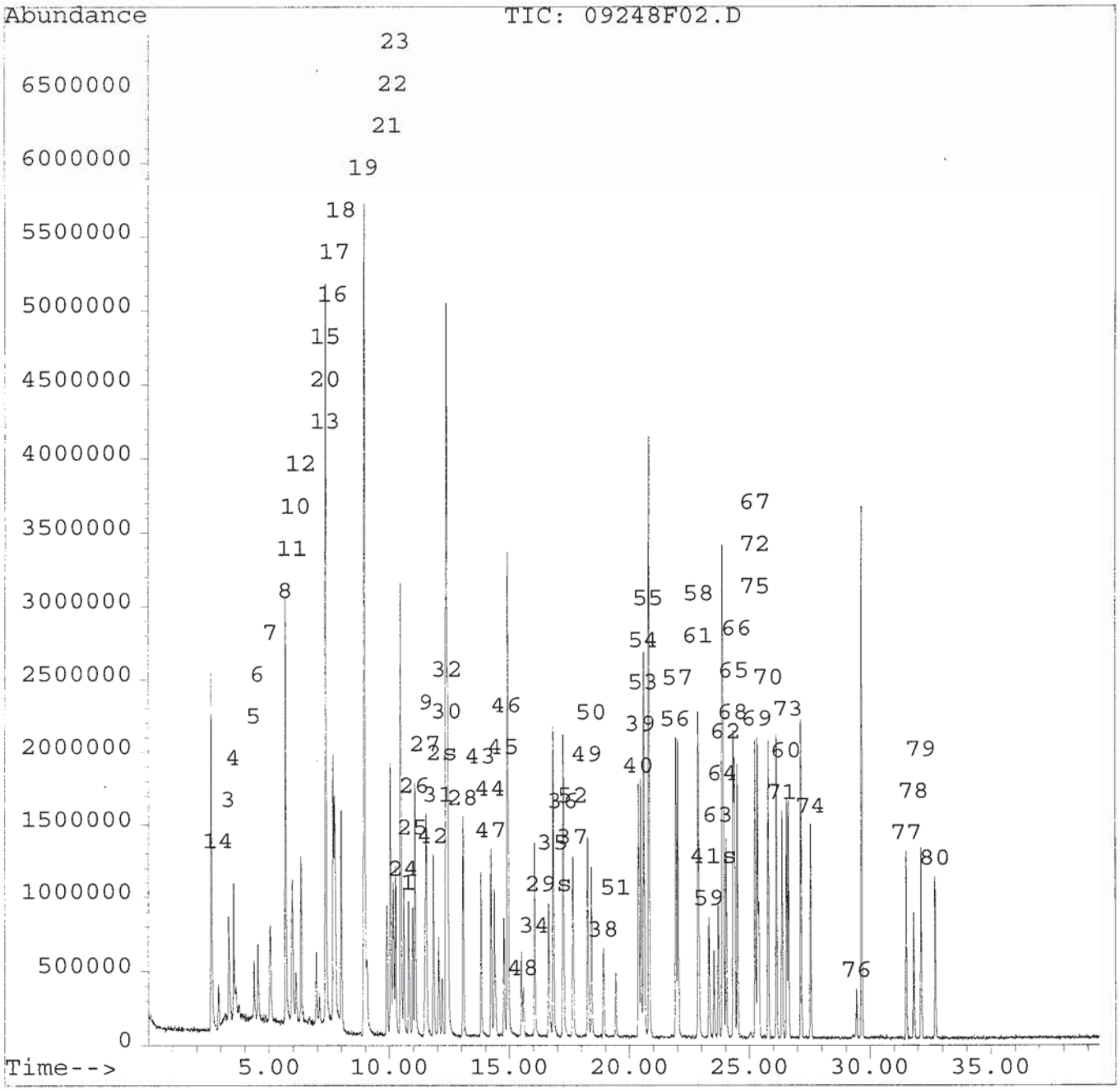
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F02.D
Acq On : 24 Sep 98 11:16
Sample : 50 PPB
Misc :
Quant Time: Sep 24 12:03 1998

Vial: 1
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F08.D Vial: 5
Acq On : 24 Sep 98 17:01 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		Pentafluorobenzene	1.000	1.000	0.0	100	0.02
2	s	1,2-Dichloroethane-D4	0.856	0.933	-9.0	110	0.03
3		Chloromethane	1.347	1.435	-6.6	106	0.00
4		Vinyl Chloride	1.332	1.353	-1.5	100	0.02
5		Bromomethane	0.530	0.570	-7.6	109	0.02
6		Chloroethane	0.788	0.856	-8.6	102	0.02
7		Trichlorofluoromethane	1.139	1.094	3.9	92	0.00
8		Ethyl Ether	0.727	0.877	-20.7	114	0.02
9		Acreolin	0.167	0.194	-16.0	117	0.02
10		2-Propanone (acetone)	0.266	0.289	-8.6	119	0.02
11		1,1,2-Trichloro-1,2,2-Trifl	0.480	0.470	2.3	96	0.00
12		1,1-Dichloroethylene	0.681	0.677	0.6	99	0.03
13		Carbon Disulfide	2.791	2.959	-6.0	105	0.02
14		Dichlorodifluoromethane	0.575	0.536	6.9	89	0.02
15		Methylene Chloride	0.884	1.019	-15.3	114	0.02
16		Acrylonitrile	0.382	0.494	-29.3#	126	0.02
17		Methyl-t-Butyl Ether	2.636	2.857	-8.4	107	0.02
18		Trans-1,2-Dichloroethylene	0.736	0.845	-14.8	110	0.02
19		1,1-dichloroethane	1.285	1.550	-20.5	118	0.02
20		Vinyl Acetate	0.185	0.213	-15.5	123	0.02
21		2-Butanone (MEK)	0.385	0.366	5.0	92	0.03
22		2,2-Dichloropropane	1.033	1.061	-2.7	99	0.03
23		cis-1,2-Dichloroethylene	0.667	0.733	-9.9	106	0.02
24		Chloroform	1.153	1.387	-20.3	119	0.04
25		Bromochloromethane	0.300	0.352	-17.3	112	0.02
26		Tetrahydrofuran	0.066	0.068	-2.1	103	0.00
27		1,1,1-Trichloroethane	0.882	0.910	-3.2	103	0.02
28		1,4-Difluorobenzene	1.000	1.000	0.0	105	0.02
29	s	Toluene-D8	1.124	1.218	-8.4	112	0.03
30		1,2-Dichloroethane	0.609	0.666	-9.4	111	0.02
31		Carbon tetrachloride	0.350	0.335	4.3	94	0.03
32		Benzene	1.529	1.667	-9.0	116	0.02
33		Fluorobenzene	1.693	0.049	97.1#	522#	-0.18
34		c-1,3-dichloropropene	0.605	0.652	-7.9	106	0.03
35		Toluene	1.427	1.539	-7.8	111	0.02
36		t-1,3-Dichloropropene	0.543	0.587	-8.2	103	0.02
37		1,1,2-Trichloroethane	0.258	0.340	-31.9#	124	0.02
38		Dibromochloromethane	0.198	0.229	-15.6	105	0.03
39		Chlorobenzene	0.573	0.672	-17.2	118	0.02
40		Chlorobenzene-D5	1.000	1.000	0.0	99	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F08.D Vial: 5
Acq On : 24 Sep 98 17:01 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
41	s	1,4-Bromofluorobenzene	0.564	0.589	-4.4	106	0.04
42		1,1-Dichloropropene	0.579	0.605	-4.5	108	0.02
43		Trichloroethylene	0.364	0.449	-23.1	116	0.02
44		1,2-Dichloropropane	0.429	0.526	-22.6	120	0.04
45		Bromodichloromethane	0.500	0.613	-22.7	117	0.02
46		Dibromomethane	0.229	0.269	-17.6	109	0.03
47		2-Chloroethylvinylether	0.143	0.175	-22.6	120	0.04
48		4-Methyl-2-Pentanone(MIBK)	0.498	0.569	-14.1	106	0.02
49		1,3-Dichloropropane	0.707	0.857	-21.2	112	0.03
50		Tetrachloroethylene	0.331	0.346	-4.6	101	0.03
51		1,2-Dibromomethane	0.319	0.400	-25.2#	115	0.02
52		2-Hexanone	0.296	0.319	-7.6	105	0.02
53		1,1,1,2-Tetrachloroethane	0.292	0.330	-12.9	105	0.03
54		Ethylbenzene	1.752	1.888	-7.8	105	0.03
55		META/PARA XYLENE	0.655	0.708	-8.1	107	0.03
56		Ortho Xylene	0.609	0.658	-8.2	104	0.03
57		Styrene	1.051	1.174	-11.7	106	0.02
58		BROMOFORM	0.175	0.183	-4.9	97	0.03
59		1,1,2,2-Tetrachloroethane	0.457	0.612	-34.0#	125	0.03
60		1,4-Dichlorobenzene-D4	1.000	1.000	0.0	107	0.02
61		Isopropylbenzene(ben1,methy	3.695	3.684	0.3	102	0.03
62		Bromobenzene	0.758	0.738	2.6	99	0.05
63		1,2,3-Trichloropropane	0.837	1.043	-24.7	114	0.02
64		N-Propylbenzene	4.795	5.012	-4.5	106	0.03
65		2-Chlorotoluene	0.769	0.790	-2.8	102	0.05
66		4-Chlorotoluene	2.904	3.030	-4.3	108	0.03
67		Tert-Butylbenzene(ben-1,1-d	2.478	2.388	3.6	98	0.04
68		1,3,5-Trimethylbenzene	2.839	2.950	-3.9	104	0.02
69		1,2,4-Trimethylbenzene	2.900	2.950	-1.8	101	0.02
70		Sec-Butylbenzene(Ben-1-Meth	3.732	3.752	-0.5	101	0.03
71		1,3-dichlorobenzene	1.476	1.447	2.0	98	0.03
72		Para-Isopropyltoluene(ben-1	2.478	2.388	3.6	98	0.04
73		1,4-Dichlorobenzene	1.496	1.503	-0.5	99	0.03
74		1,2-Dichlorobenzene	1.420	1.369	3.6	98	0.02
75		N-Butylbenzene	1.875	1.858	0.9	100	0.03
76		1,2-Dibromo-3-Chloropropane	0.160	0.154	3.3	97	0.04
77		1,2,4-Trichlorobenzene	1.001	0.822	17.9	83	0.04
78		Hexachlorobutadiene	0.432	0.346	20.0	86	0.04
79		Naphthalene	2.526	2.573	-1.9	99	0.02
80		1,2,3-Trichlorobenzene	0.909	0.777	14.5	86	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F08.D Vial: 5
Acq On : 24 Sep 98 17:01 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 25 8:49 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	842455	50.00 ug/l	0.02 99.96%
28) 1,4-Difluorobenzene	13.10	114	1607137	50.00 ug/l	0.02 107.14%
40) Chlorobenzene-D5	20.42	117	1398748	50.00 ug/l	0.02 106.91%
60) 1,4-Dichlorobenzene-D4	26.58	152	647065	50.00 ug/l	0.02 103.93%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	393175	27.26 ug/l	109.03%
29) Toluene-D8	16.68	98	978937	27.11 ug/l	108.43%
41) 1,4-Bromofluorobenzene	23.57	95	411925	26.10 ug/l	104.38%

Target Compounds					Qvalue
3) Chloromethane	3.33	50	1209090	53.29 ug/l	90
4) Vinyl Chloride	3.54	62	1139442	50.76 ug/l	99
5) Bromomethane	4.39	94	480123	53.78 ug/l	98
6) Chloroethane	4.55	64	721412	54.30 ug/l #	18
7) Trichlorofluoromethane	5.07	101	922018	48.03 ug/l	99
8) Ethyl Ether	5.72	45	2217064	181.01 ug/l #	80
9) Acreolin	11.57	56	1633945	579.78 ug/l #	91
10) 2-Propanone (acetone)	6.13	43	486564	108.59 ug/l m	95
11) 1,1,2-Trichloro-1,2,2-Trif	5.98	151	395578	48.87 ug/l	100
12) 1,1-Dichloroethylene	6.35	96	570201	49.72 ug/l	96
13) Carbon Disulfide	7.37	76	7479455	159.06 ug/l	100
14) Dichlorodifluoromethane	2.92	85	451146	46.54 ug/l	91
15) Methylene Chloride	7.38	84	858866	57.66 ug/l	96
16) Acrylonitrile	7.68	53	2080088	323.34 ug/l #	91
17) Methyl-t-Butyl Ether	7.75	73	2407286	54.21 ug/l #	89
18) Trans-1,2-Dichloroethylene	8.02	96	711971	57.41 ug/l #	1
19) 1,1-dichloroethane	8.95	63	1305394	60.27 ug/l	92
20) Vinyl Acetate	7.38	86	538970	173.27 ug/l #	1
21) 2-Butanone (MEK)	9.93	43	1231776	189.99 ug/l m	96
22) 2,2-Dichloropropane	10.18	77	893928	51.35 ug/l #	78
23) cis-1,2-Dichloroethylene	10.28	96	617158	54.93 ug/l m	83
24) Chloroform	10.64	83	1168852	60.17 ug/l	100
25) Bromochloromethane	10.99	128	296813	58.67 ug/l	88
26) Tetrahydrofuran	11.09	71	398136	357.26 ug/l m	78
27) 1,1,1-Trichloroethane	11.52	97	766718	51.61 ug/l	99
30) 1,2-Dichloroethane	12.44	62	1070056	54.68 ug/l	100

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F08.D Vial: 5
Acq On : 24 Sep 98 17:01 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 25 8:49 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Carbon tetrachloride	12.08	117	539077	47.87 ug/l #	81
32) Benzene	12.47	78	2678649	54.49 ug/l	100
33) Fluorobenzene	12.95	96	66404	1.22 ug/l #	100
34) c-1,3-dichloropropene	16.09	75	1048005	53.93 ug/l	94
35) Toluene	16.86	91	2473062	53.92 ug/l	89
36) t-1,3-Dichloropropene	17.29	75	943516	54.09 ug/l	93
37) 1,1,2-Trichloroethane	17.68	83	546374	65.96 ug/l	92
38) Dibromochloromethane	18.96	127	367571	57.80 ug/l	96
39) Chlorobenzene	20.52	77	1080099	58.62 ug/l	91
42) 1,1-Dichloropropene	11.87	75	845819	52.24 ug/l	92
43) Trichloroethylene	13.85	95	627407	61.57 ug/l	98
44) 1,2-Dichloropropane	14.28	63	735358	61.29 ug/l	95
45) Bromodichloromethane	14.81	83	857388	61.33 ug/l	94
46) Dibromomethane	14.94	93	376015	58.81 ug/l	92
47) 2-Chloroethylvinylether	14.28	63	735358	183.88 ug/l #	88
48) 4-Methyl-2-Pentanone(MIBK)	15.61	43	397692	28.53 ug/l #	100
49) 1,3-Dichloropropane	18.30	76	1199063	60.60 ug/l	96
50) Tetrachloroethylene	18.46	166	484104	52.28 ug/l	95
51) 1,2-Dibromomethane	19.47	107	558919	62.58 ug/l	98
52) 2-Hexanone	17.70	43	281040	33.89 ug/l m	90
53) 1,1,1,2-Tetrachloroethane	20.63	131	461823	56.46 ug/l	94
54) Ethylbenzene	20.65	91	2640923	53.89 ug/l	98
55) META/PARA XYLENE	20.85	106	1981584	108.09 ug/l	87
56) Ortho Xylene	21.97	106	920996	54.09 ug/l	98
57) Styrene	22.06	104	1642213	55.86 ug/l	89
58) BROMOFORM	22.94	173	256472	52.44 ug/l	99
59) 1,1,2,2-Tetrachloroethane	23.35	83	856136	66.99 ug/l	89
61) Isopropylbenzene(ben1,meth	22.90	105	2383563	49.85 ug/l	93
62) Bromobenzene	24.08	156	477825	48.69 ug/l	95
63) 1,2,3-Trichloropropane	23.73	75	674926	62.33 ug/l #	1
64) N-Propylbenzene	23.95	91	3242873	52.26 ug/l	93
65) 2-Chlorotoluene	24.42	126	511461	51.39 ug/l	98
66) 4-Chlorotoluene	24.53	91	1960567	52.16 ug/l	95
67) Tert-Butylbenzene(ben-1,1-	25.28	119	1545037	48.18 ug/l	95
68) 1,3,5-Trimethylbenzene	24.36	105	1908879	51.96 ug/l	97
69) 1,2,4-Trimethylbenzene	25.37	105	1909150	50.88 ug/l	90
70) Sec-Butylbenzene(Ben-1-Met	25.81	105	2428008	50.27 ug/l	96
71) 1,3-dichlorobenzene	26.40	146	936027	49.01 ug/l	99
72) Para-Isopropyltoluene(ben-	25.28	119	1545037	48.18 ug/l #	51
73) 1,4-Dichlorobenzene	26.66	146	972702	50.24 ug/l	96
74) 1,2-Dichlorobenzene	27.57	146	885898	48.19 ug/l	96
75) N-Butylbenzene	25.28	91	1202486	49.56 ug/l #	50

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

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F08.D Vial: 5
Acq On : 24 Sep 98 17:01 Operator:
Sample : 50 PPB Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 25 8:49 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76)	1,2-Dibromo-3-Chloropropan	29.48	75	99820	48.35 ug/l m	86
77)	1,2,4-Trichlorobenzene	31.54	180	531828	41.07 ug/l	95
78)	Hexachlorobutadiene	31.86	225	223577	39.99 ug/l	94
79)	Naphthalene	32.16	128	1665027	50.94 ug/l	100
80)	1,2,3-Trichlorobenzene	32.73	180	503012	42.75 ug/l	94

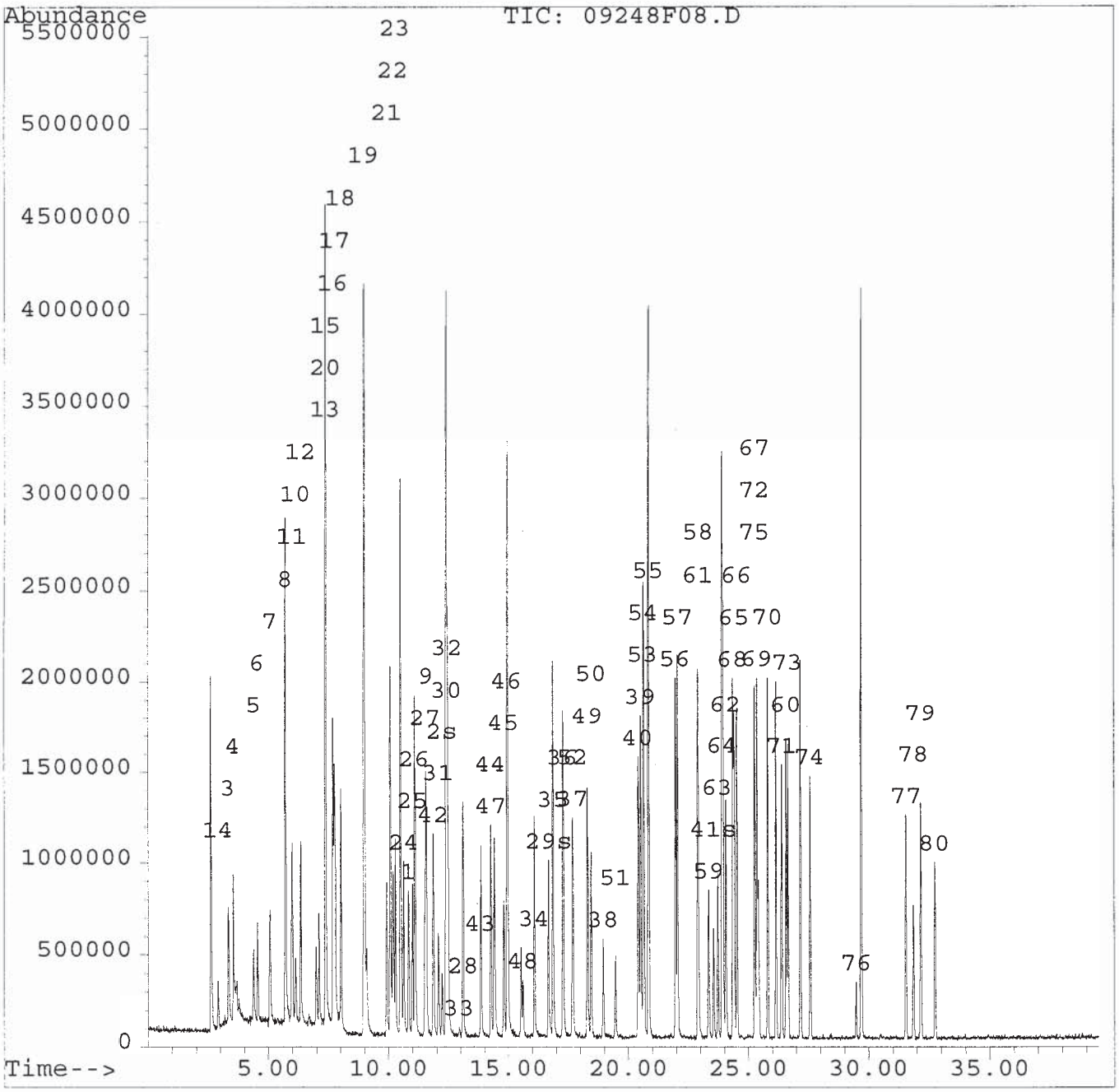
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F08.D
Acq On : 24 Sep 98 17:01
Sample : 50 PPB
Misc :
Quant Time: Sep 25 8:49 1998

Vial: 5
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F03.D Vial: 2
Acq On : 24 Sep 98 12:09 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00
Quant Time: Sep 24 12:56 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.81	168	1104935	50.00 ug/l	0.00 131.11%
28) 1,4-Difluorobenzene	13.08	114	1989983	50.00 ug/l	0.00 132.67%
40) Chlorobenzene-D5	20.39	117	1732224	50.00 ug/l	0.00 132.39%
60) 1,4-Dichlorobenzene-D4	26.55	152	733185	50.00 ug/l	0.00 117.76%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.21	65	489091	25.85 ug/l	103.41%
29) Toluene-D8	16.65	98	1086174	24.29 ug/l	97.16%
41) 1,4-Bromofluorobenzene	23.53	95	471365	24.11 ug/l	96.45%

Target Compounds					Qvalue
10) 2-Propanone (acetone)	6.12	43	50913	8.66 ug/l #	55
13) Carbon Disulfide	7.35	76	19089	0.31 ug/l	100
21) 2-Butanone (MEK)	9.92	43	10012	1.18 ug/l #	61
24) Chloroform	10.61	83	14939	0.59 ug/l #	80
35) Toluene	16.85	91	12248	0.22 ug/l #	22
39) Chlorobenzene	20.38	77	14428	0.63 ug/l #	1
63) 1,2,3-Trichloropropane	23.53	75	223180	18.19 ug/l #	1
79) Naphthalene	32.13	128	55355	1.49 ug/l	100

$$\frac{(50913)(50)}{(1104935)(.266)} = 8.66 \checkmark$$

DAB
10/8/98

$$\frac{(55355)(50)}{(733185)(2.526)} = 1.49 \checkmark$$

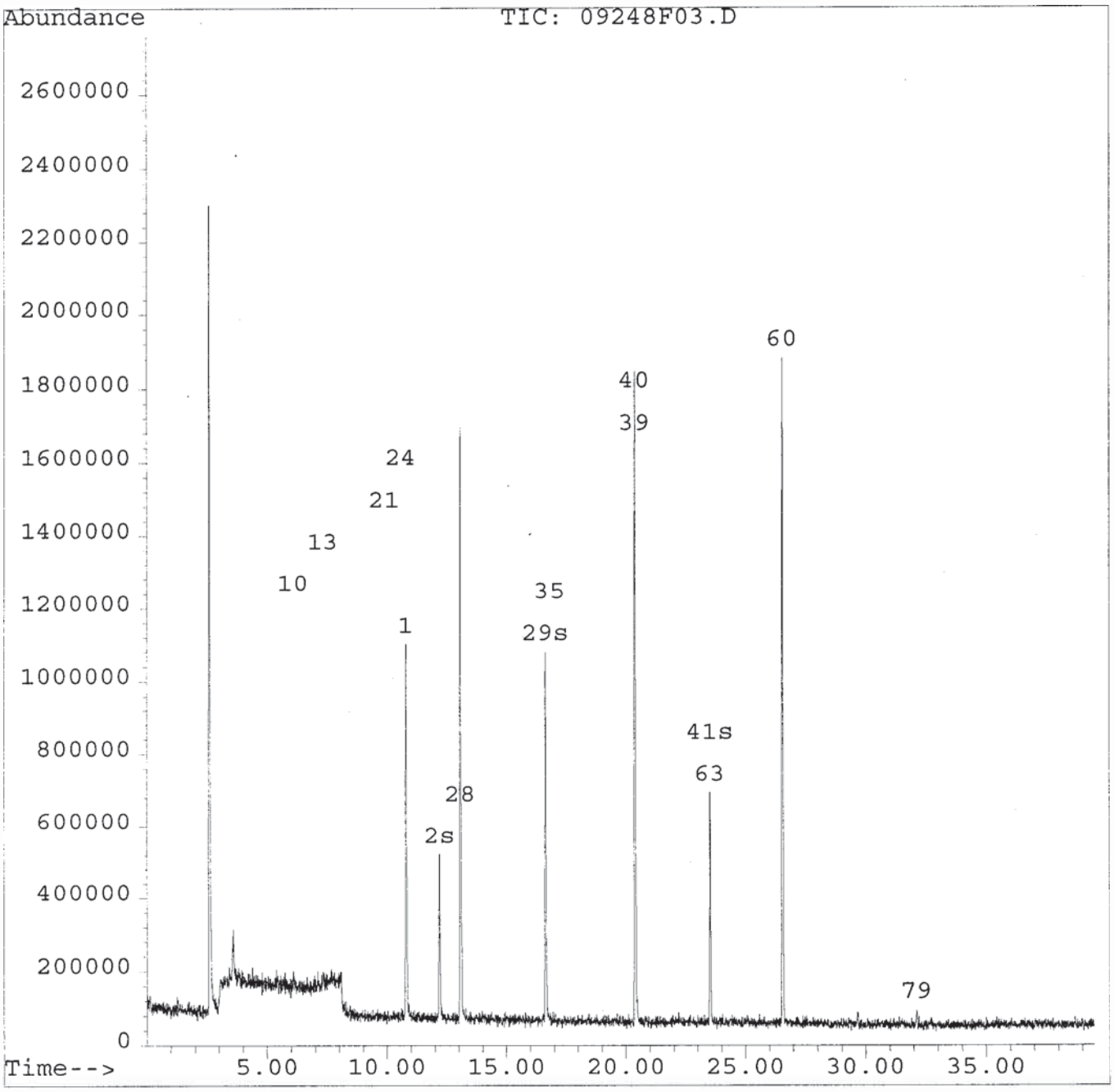
(#) = qualifier out of range (m) = manual integration

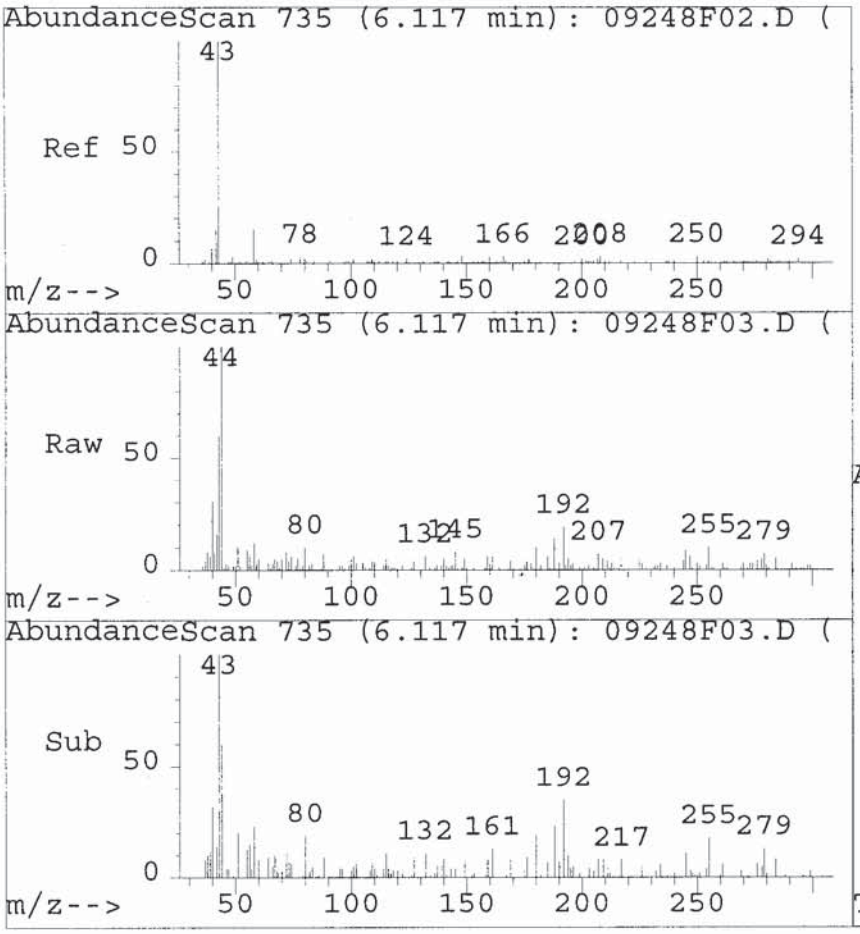
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F03.D
Acq On : 24 Sep 98 12:09
Sample : LAB BLANK
Misc :
Quant Time: Sep 24 12:56 1998

Vial: 2
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

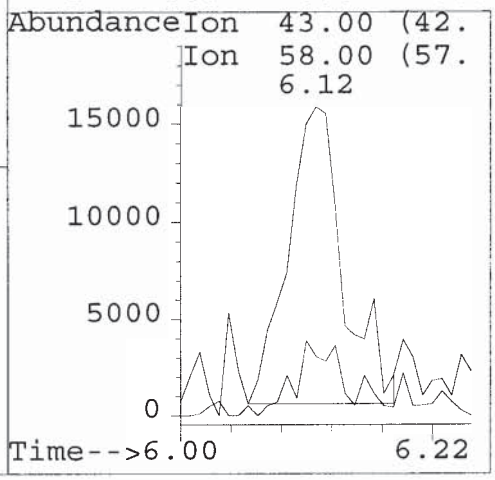


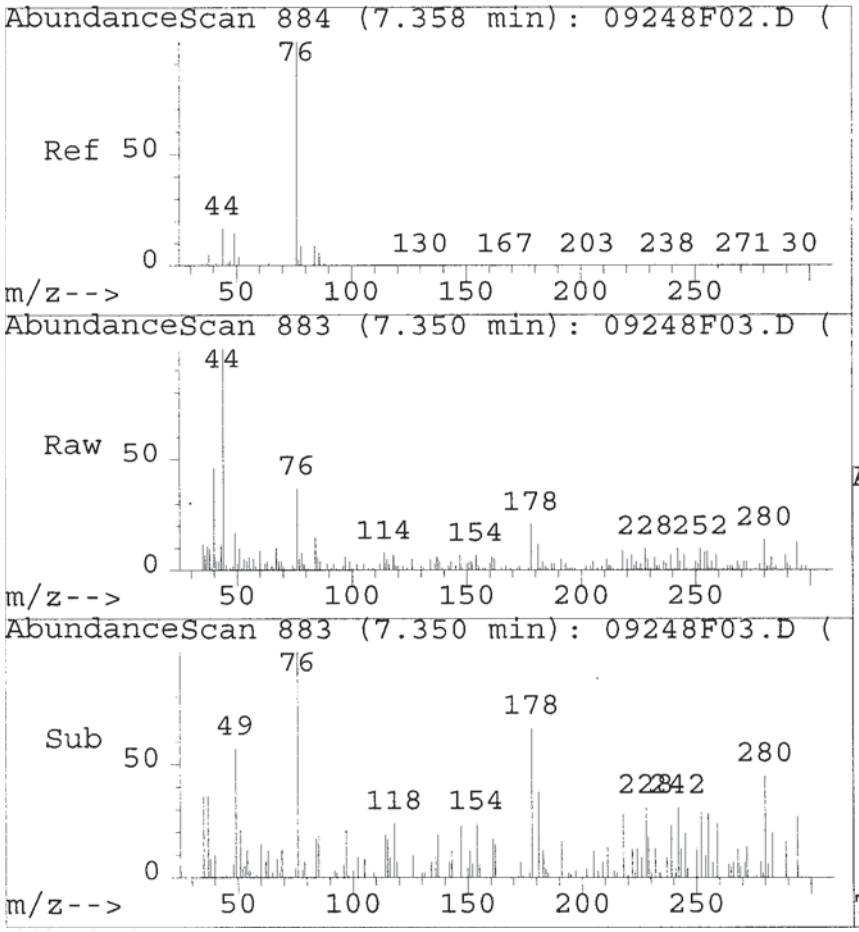


#10
2-Propanone (acetone)
Concen: 8.66 ug/l
RT: 6.12 min Scan# 735
Delta R.T. 0.01 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:43 Resp: 50913

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

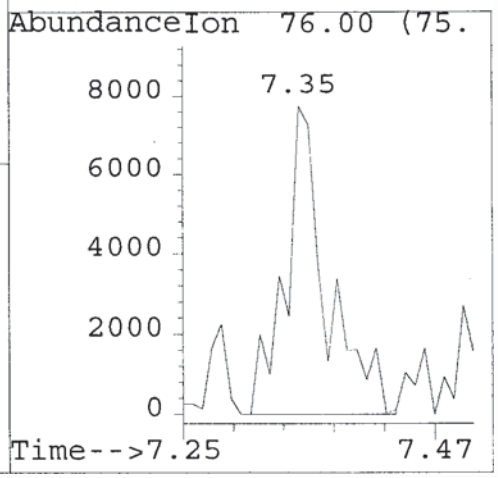


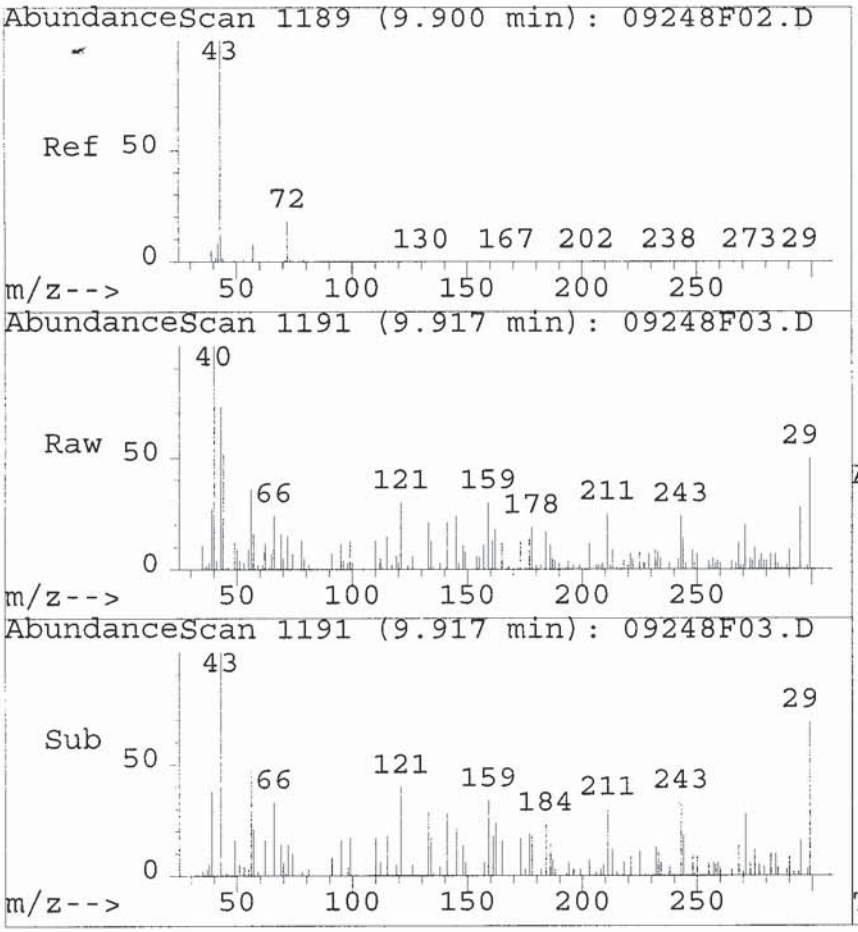


#13
Carbon Disulfide
Concen: 0.31 ug/l
RT: 7.35 min Scan# 883
Delta R.T. 0.01 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:76 Resp: 19089

Ion	Ratio	Lower	Upper
76	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

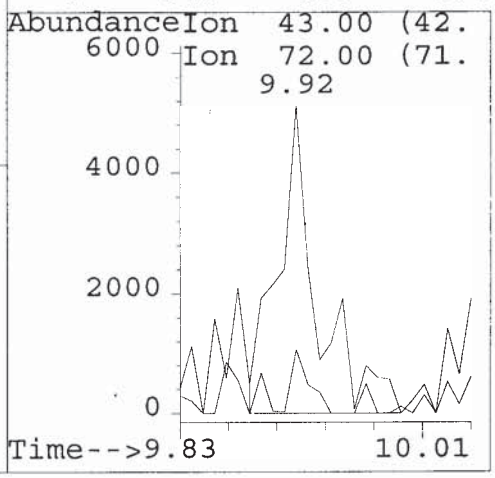


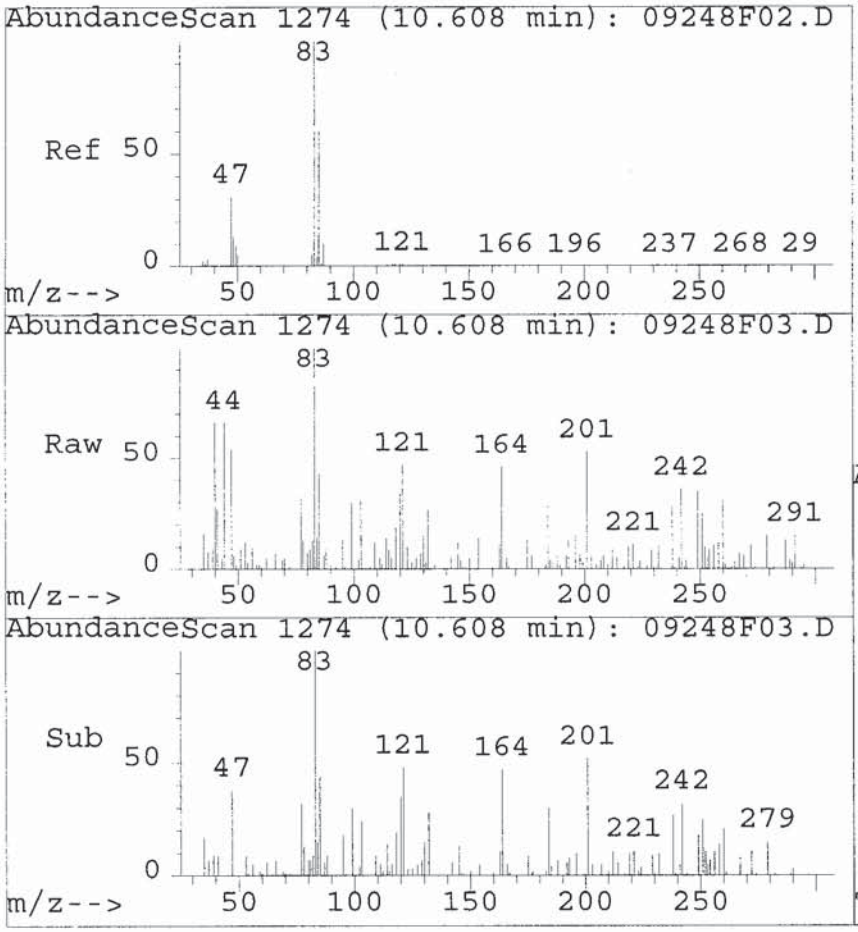


#21
2-Butanone (MEK)
Concen: 1.18 ug/l
RT: 9.92 min Scan# 1191
Delta R.T. 0.02 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:43 Resp: 10012

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	19.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

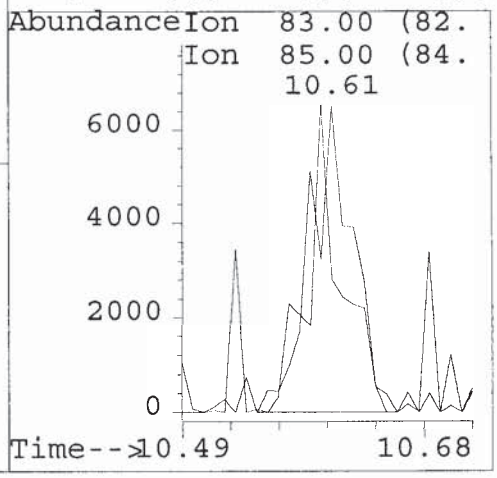


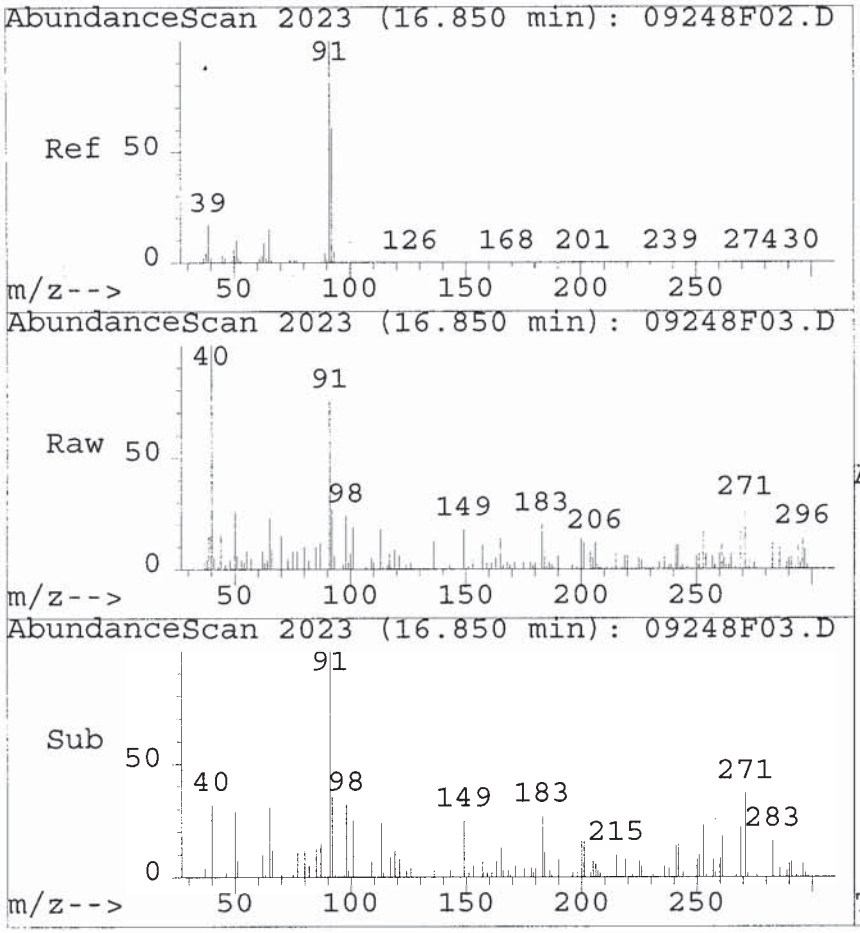


#24
Chloroform
Concen: 0.59 ug/l
RT: 10.61 min Scan# 1274
Delta R.T. 0.01 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:83 Resp: 14939

Ion	Ratio	Lower	Upper
83	100		
85	77.8	49.8	74.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

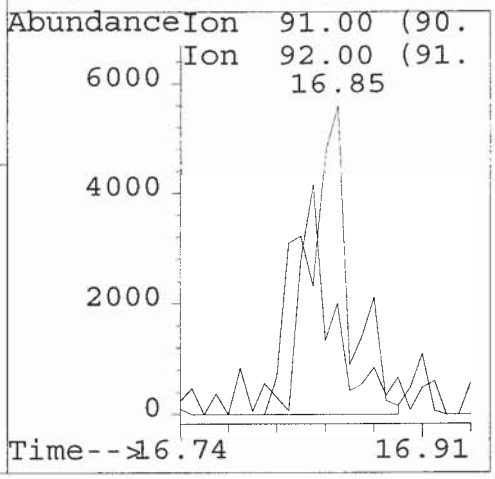


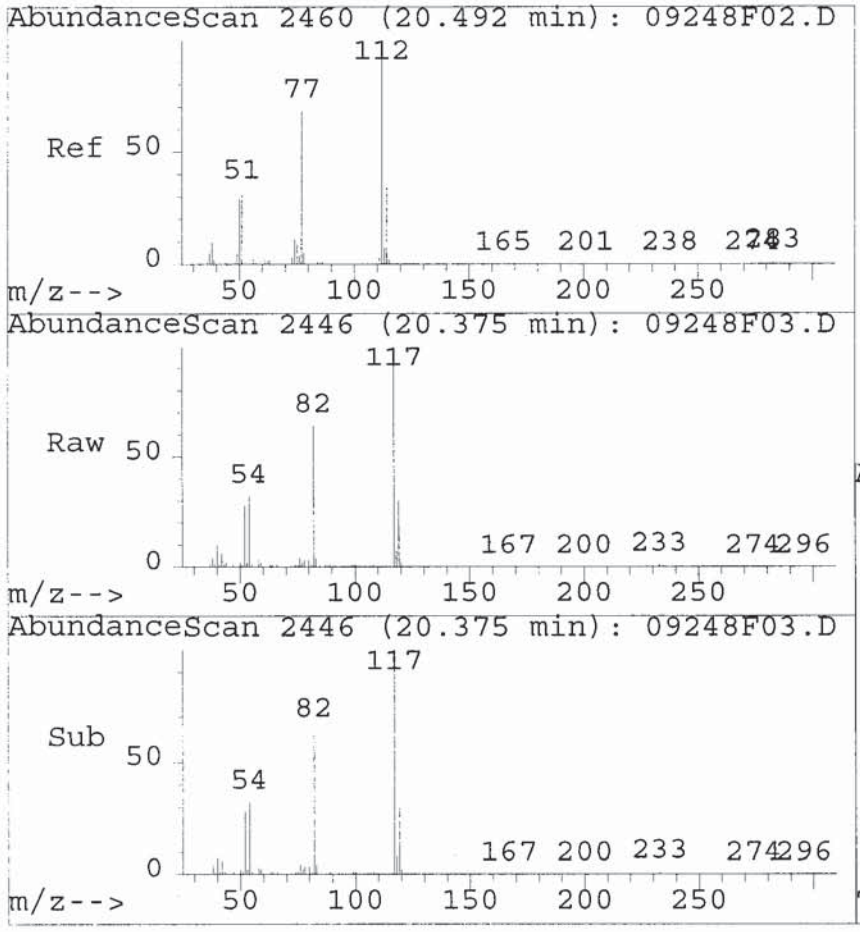


#35
Toluene
Concen: 0.22 ug/l
RT: 16.85 min Scan# 2023
Delta R.T. 0.01 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:91 Resp: 12248

Ion	Ratio	Lower	Upper
91	100		
92	0.0	45.8	68.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

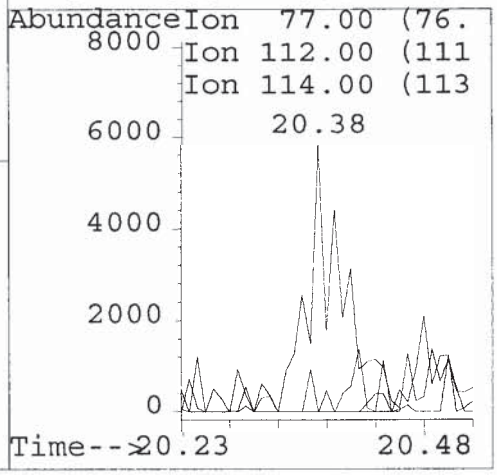


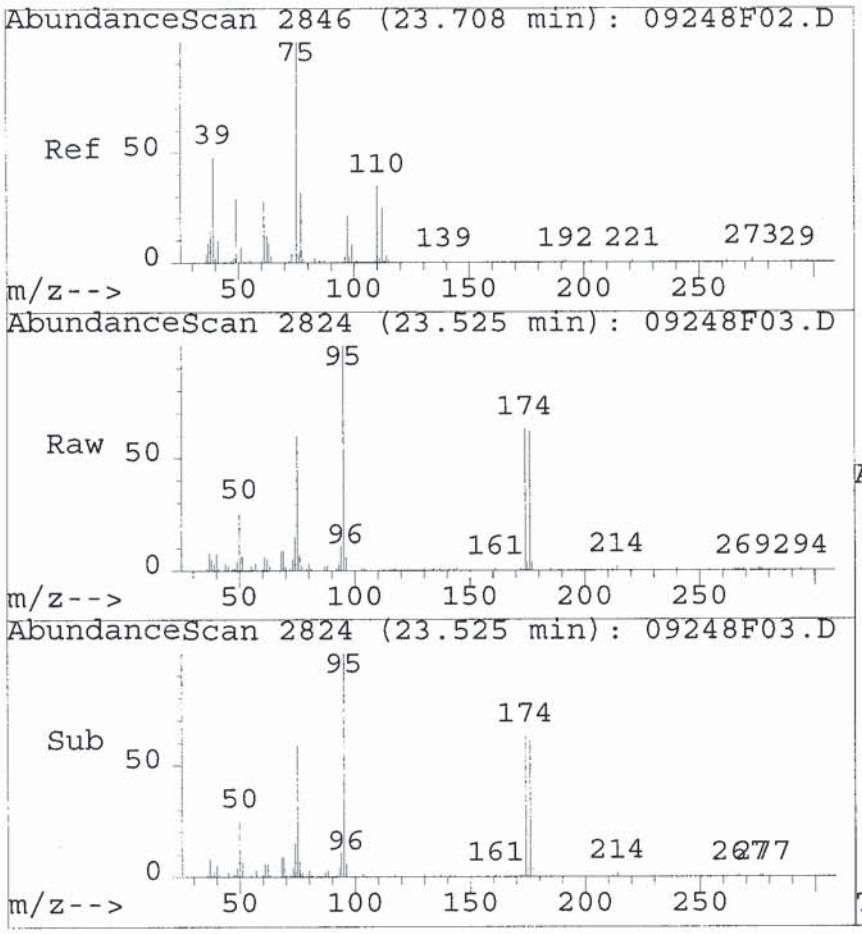


#39
Chlorobenzene
Concen: 0.63 ug/l
RT: 20.38 min Scan# 2446
Delta R.T. -0.12 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:77 Resp: 14428

Ion	Ratio	Lower	Upper
77	100		
112	0.0	101.0	151.6#
114	0.0	33.6	50.4#
0	0.0	0.0	0.0

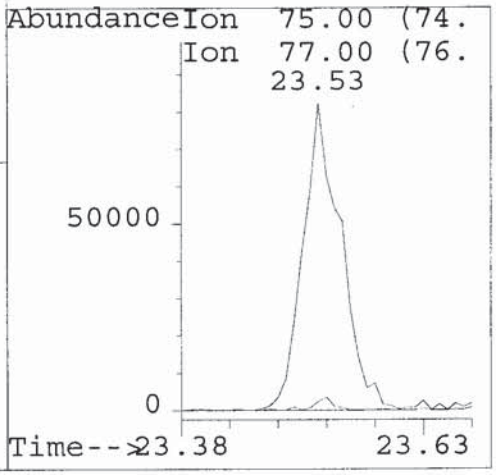


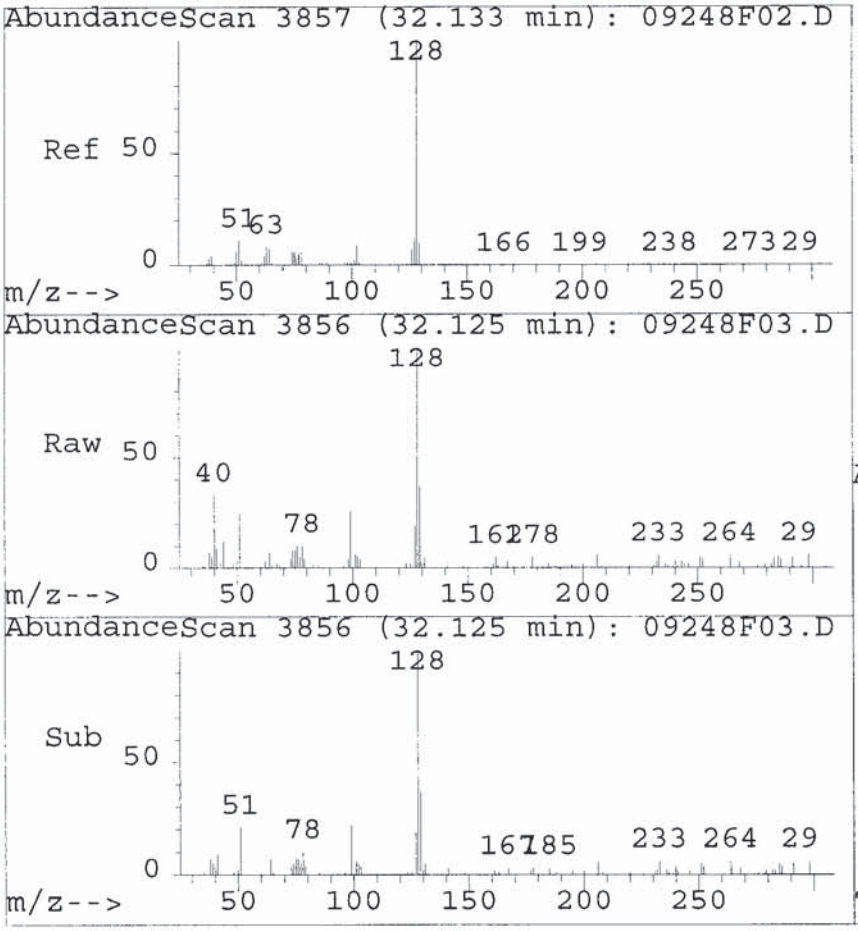


#63
1,2,3-Trichloropropane
Concen: 18.19 ug/l
RT: 23.53 min Scan# 2824
Delta R.T. -0.18 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:75 Resp: 223180

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

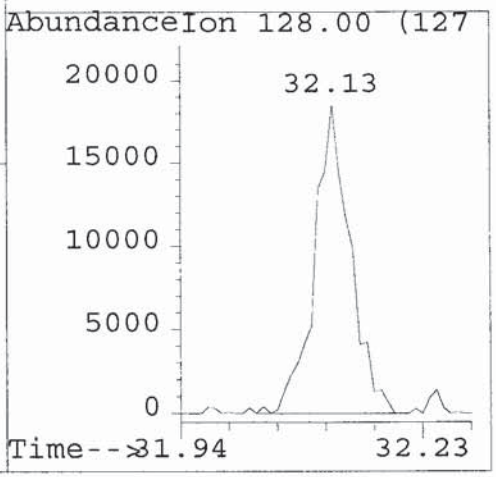




#79
Naphthalene
Concen: 1.49 ug/l
RT: 32.13 min Scan# 3856
Delta R.T. -0.01 min
Lab File: 09248F03.D
Acq: 24 Sep 98 12:09

Tgt Ion:128 Resp: 55355

Ion	Ratio	Lower	Upper
128	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



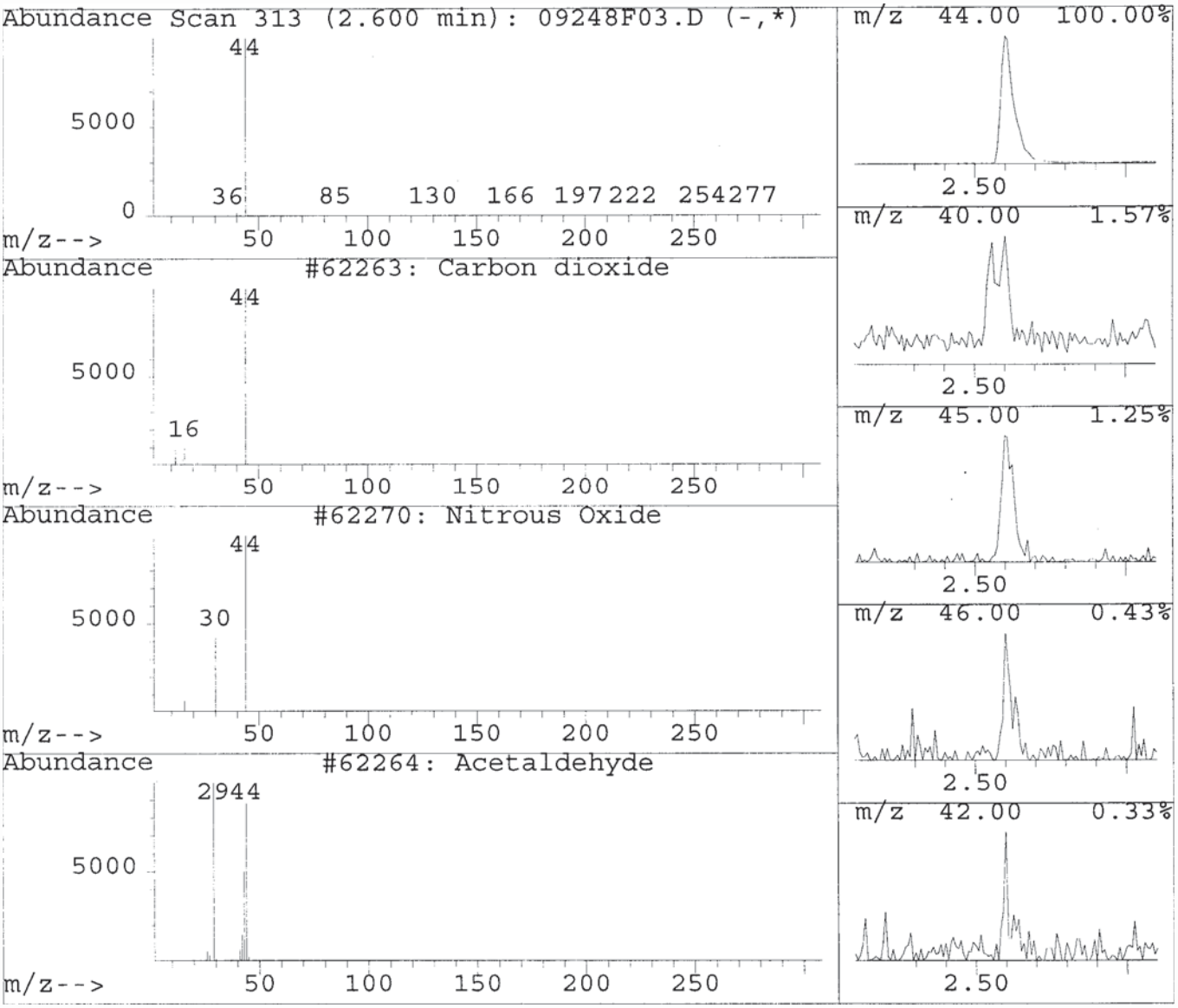
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F03.D Vial: 2
Acq On : 24 Sep 98 12:09 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.60	99.49 ug/l	6848490	Pentafluorobenzene	3441683	10.81

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Nitrous Oxide	62270	010024-97-2	3
3	Acetaldehyde	62264	000075-07-0	3
4	Ethylene oxide	62267	000075-21-8	2
5	Ethyne, fluoro-	35	002713-09-9	2



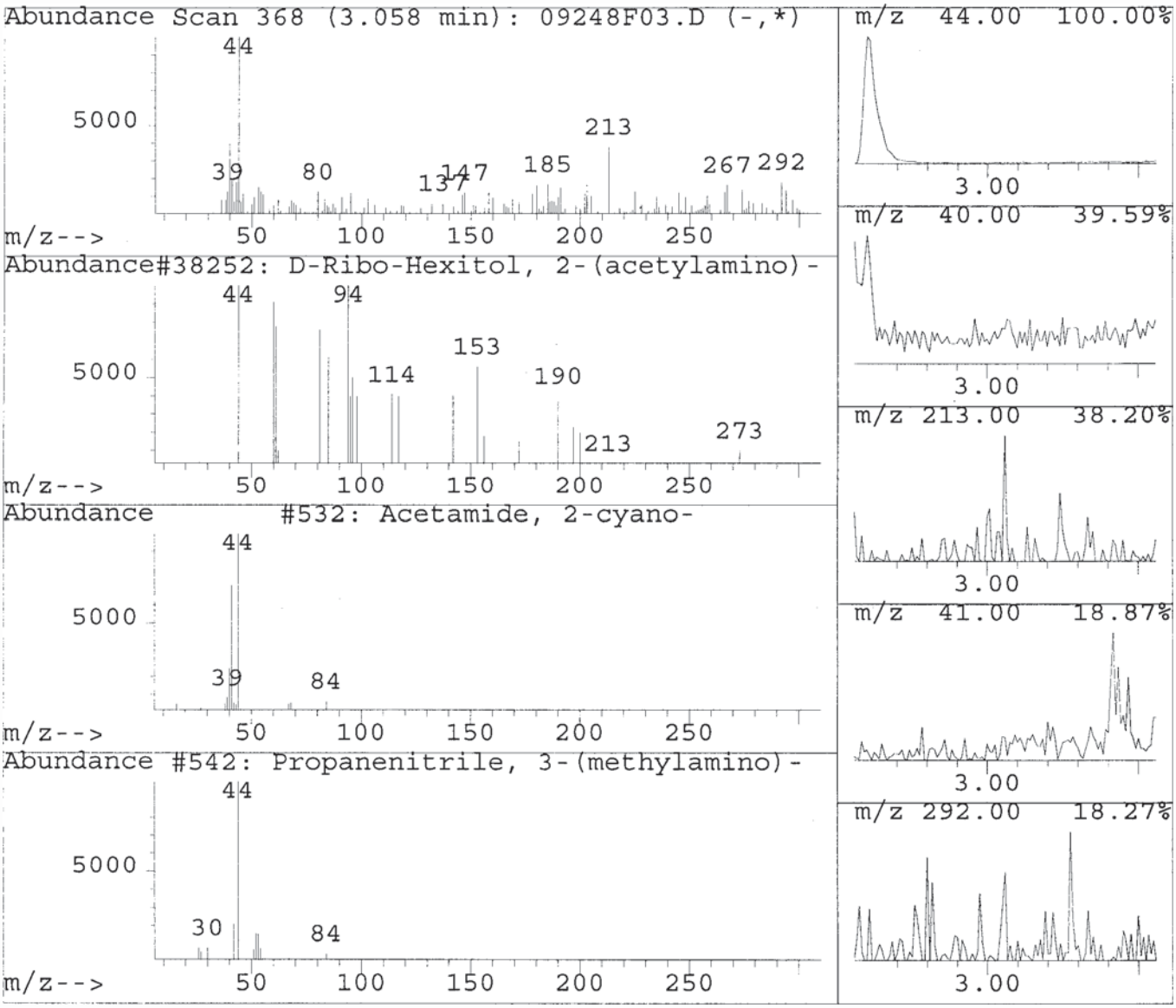
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F03.D Vial: 2
Acq On : 24 Sep 98 12:09 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.06	7.97 ug/l	548759	Pentafluorobenzene	3441683	10.81

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Ribo-Hexitol, 2-(acetylamino)-1,5	38252	043180-03-6	30
2	Acetamide, 2-cyano-	532	000107-91-5	27
3	Propanenitrile, 3-(methylamino)-	542	000693-05-0	27
4	Benzenepropanamine, N-(1,1-dimethyl	72287	015793-40-5	17
5	Gentamicin a	57827	013291-74-2	12



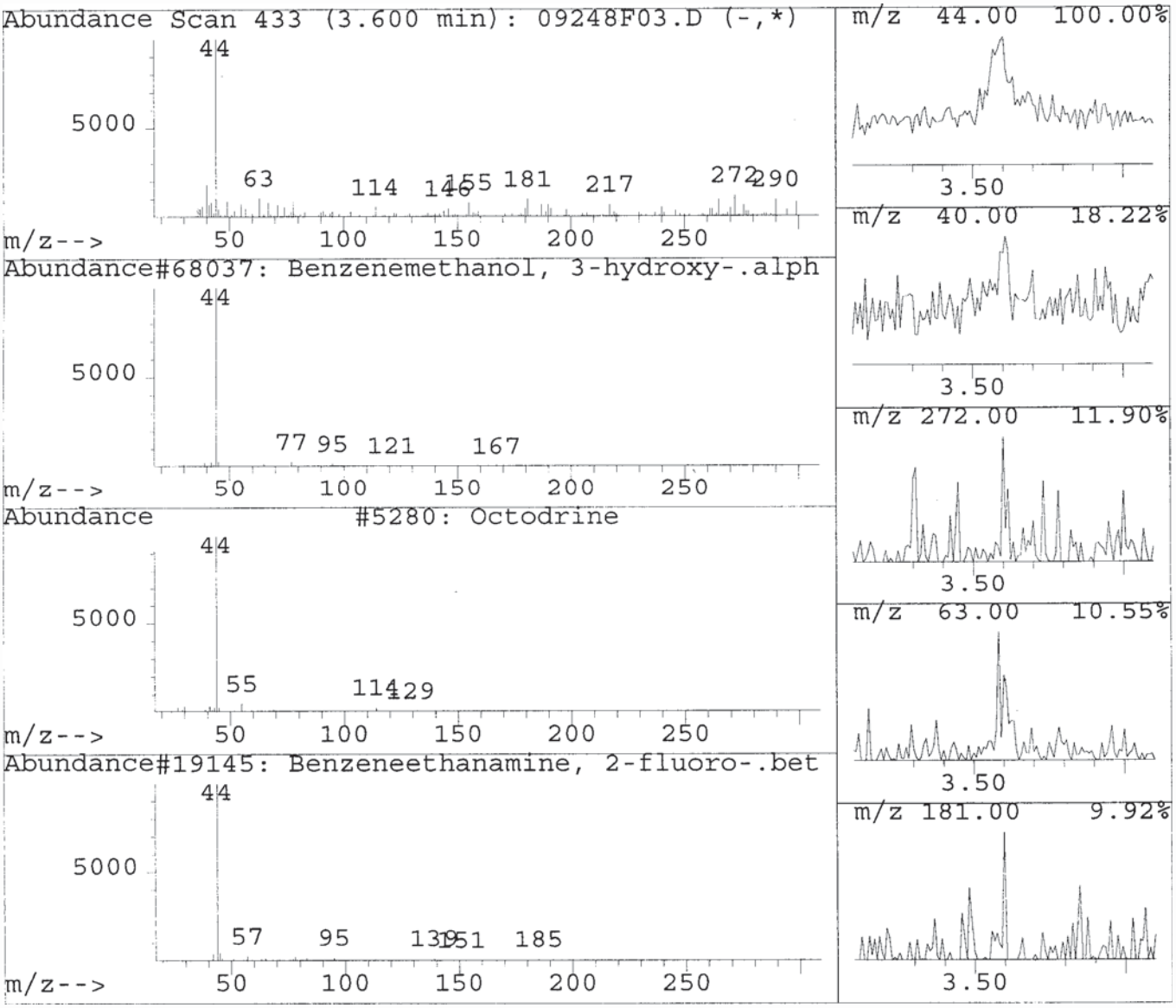
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F03.D Vial: 2
Acq On : 24 Sep 98 12:09 Operator:
Sample : LAB BLANK Inst : Finnigan
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.60	7.76 ug/l	534463	Pentafluorobenzene	3441683	10.81

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzenemethanol, 3-hydroxy-.alpha.-	68037	000059-42-7	43
2	Octodrine	5280	000543-82-8	43
3	Benzeneethanamine, 2-fluoro-.beta.,	19145	000000-00-0	43
4	Benzenethanamine,4-methoxy-.alpha.-	67907	023239-32-9	37
5	1,2-Benzenediol, 4-[2-(methylamino)	14276	000501-15-5	37



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F04.D Vial: 1
Acq On : 24 Sep 98 13:25 Operator:
Sample : METHOD BLANK 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 24 16:29 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.82	168	979084	50.00 ug/l	0.00 116.18%
28) 1,4-Difluorobenzene	13.09	114	1948676	50.00 ug/l	0.02 129.91%
40) Chlorobenzene-D5	20.41	117	1746301	50.00 ug/l	0.02 133.47%
60) 1,4-Dichlorobenzene-D4	26.56	152	700805	50.00 ug/l	0.00 112.56%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.22	65	444943	26.54 ug/l	106.16%
29) Toluene-D8	16.66	98	1026100	23.43 ug/l	93.73%
41) 1,4-Bromofluorobenzene	23.55	95	487999	24.76 ug/l	99.05%

Target Compounds					Qvalue
10) 2-Propanone (acetone)	6.17	43	28493	5.47 ug/l #	55
21) 2-Butanone (MEK)	9.93	43	11398	1.51 ug/l #	61
63) 1,2,3-Trichloropropane	23.54	75	229826	19.60 ug/l #	1

DB
10/8/98

$$\frac{(10)(50)(5.47)}{(5.042)(1000)} = 0.54 \text{ ug/g}$$

$$\frac{(28493)(50)}{(779084)(.266)} = 5.47$$

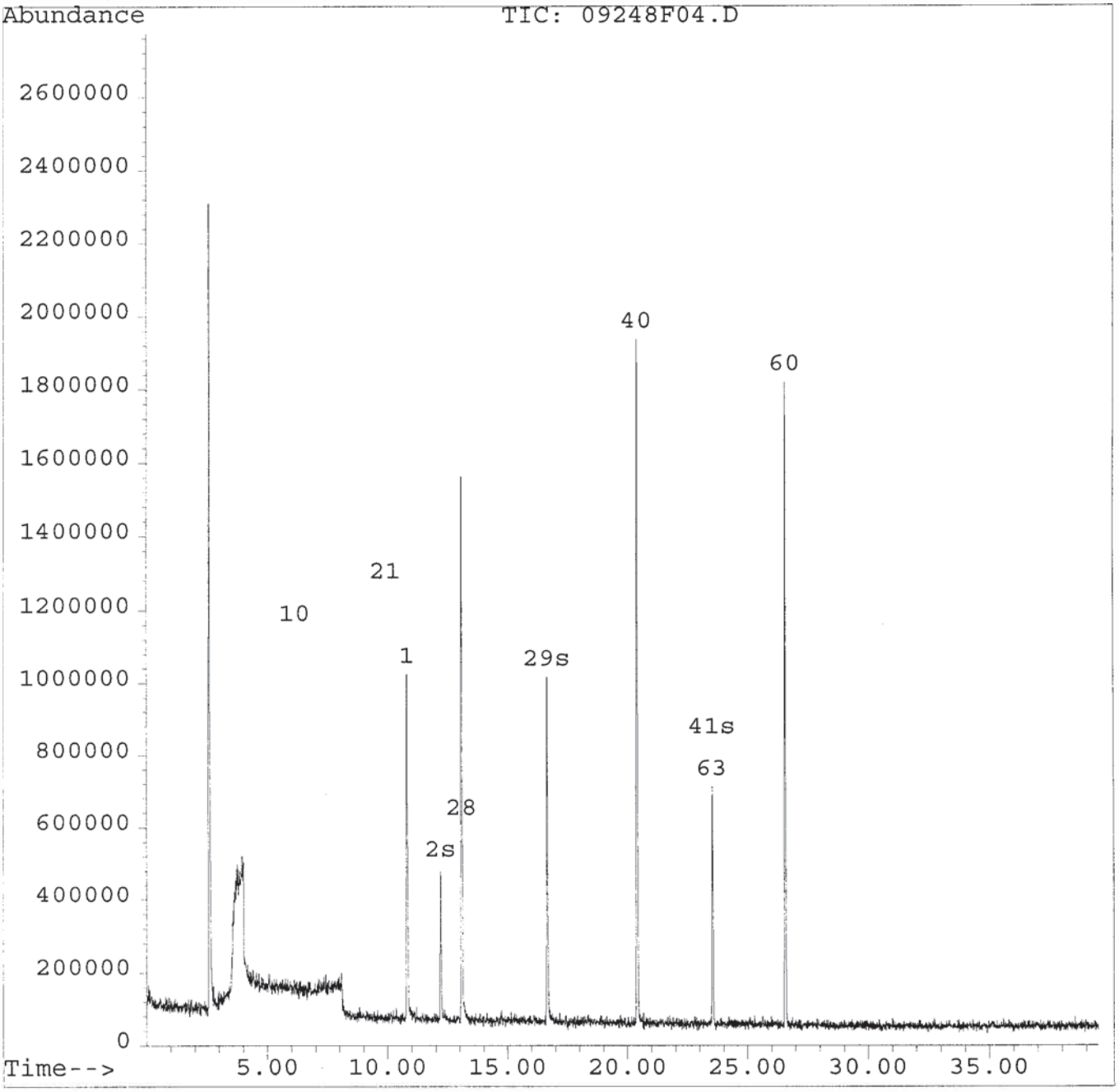
(#) = qualifier out of range (m) = manual integration

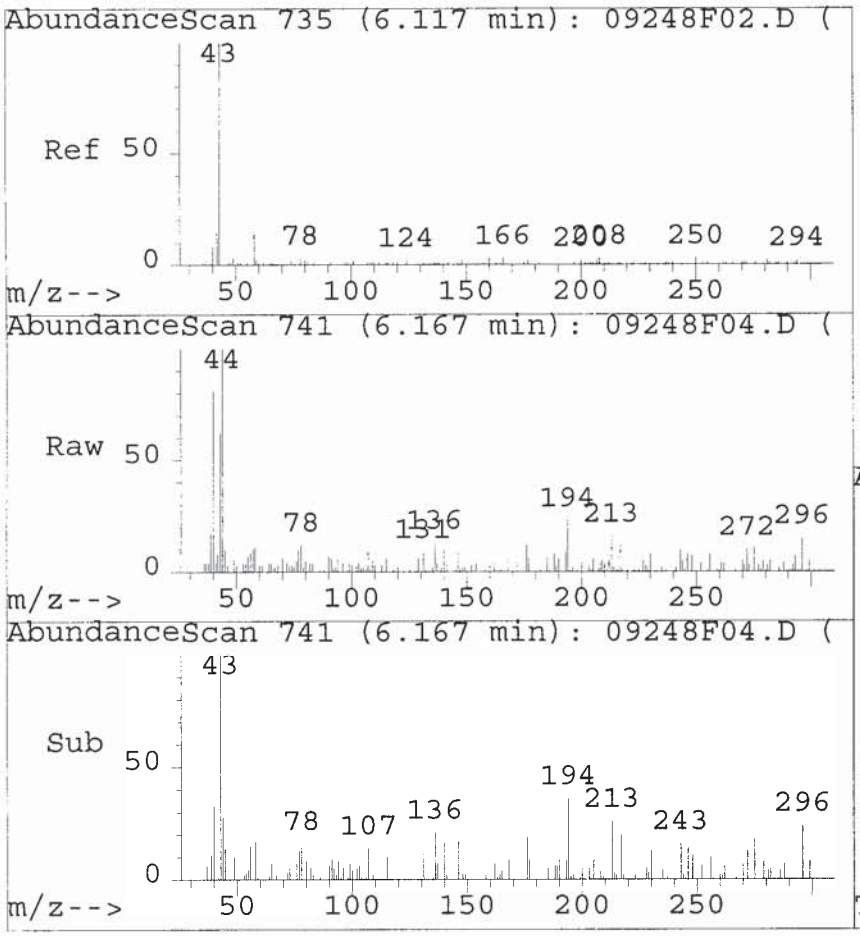
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F04.D
Acq On : 24 Sep 98 13:25
Sample : METHOD BLANK 50X
Misc : NWIRP
Quant Time: Sep 24 16:29 1998

Vial: 1
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

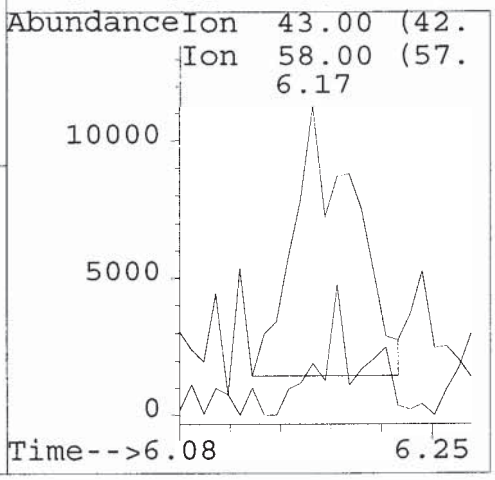


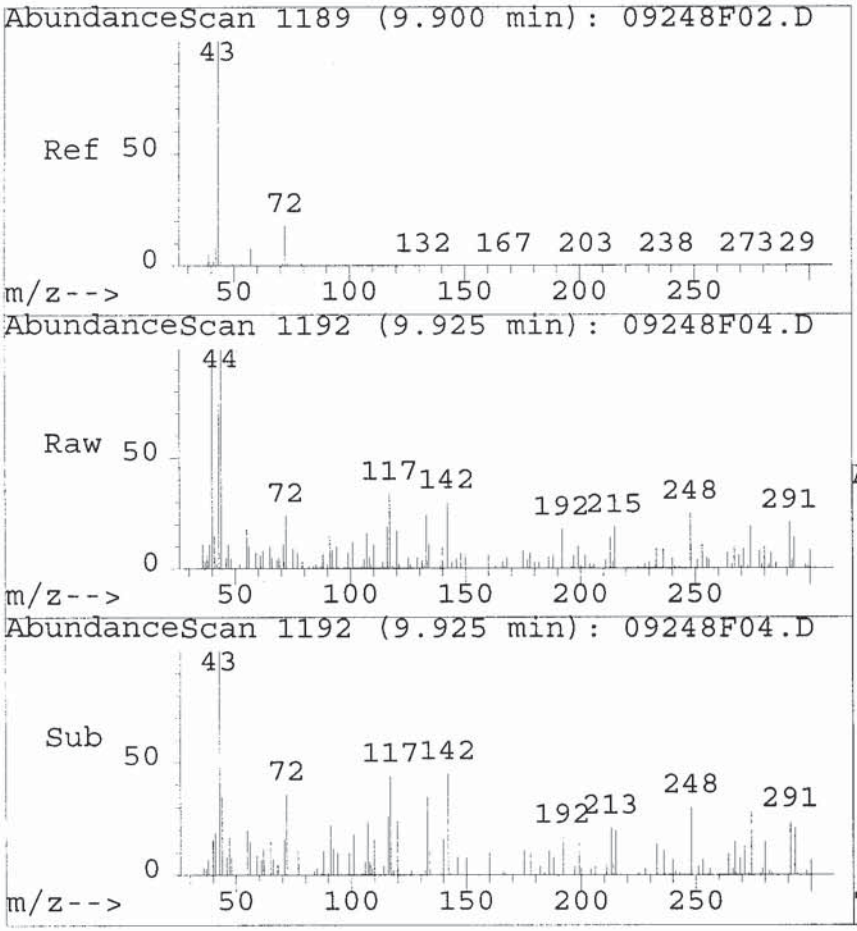


#10
2-Propanone (acetone)
Concen: 5.47 ug/l
RT: 6.17 min Scan# 741
Delta R.T. 0.06 min
Lab File: 09248F04.D
Acq: 24 Sep 98 13:25

Tgt Ion:43 Resp: 28493

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

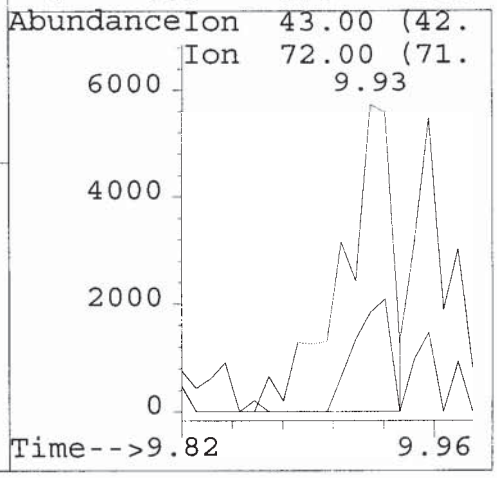


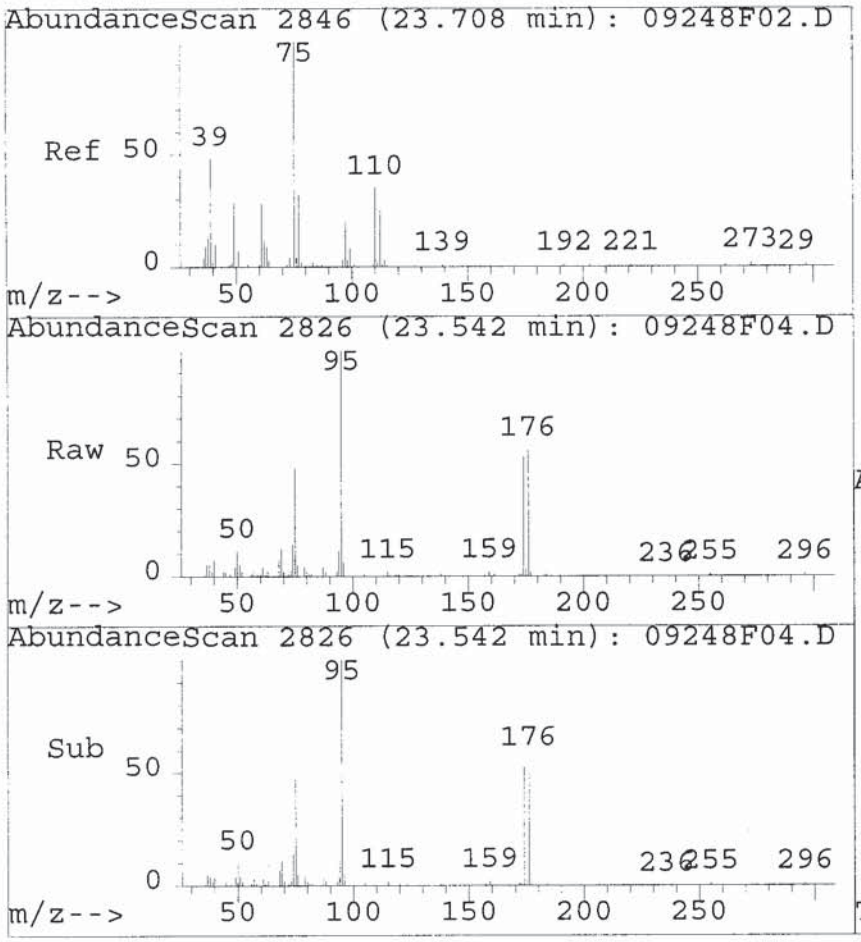


#21
2-Butanone (MEK)
Concen: 1.51 ug/l
RT: 9.93 min Scan# 1192
Delta R.T. 0.03 min
Lab File: 09248F04.D
Acq: 24 Sep 98 13:25

Tgt Ion:43 Resp: 11398

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	19.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

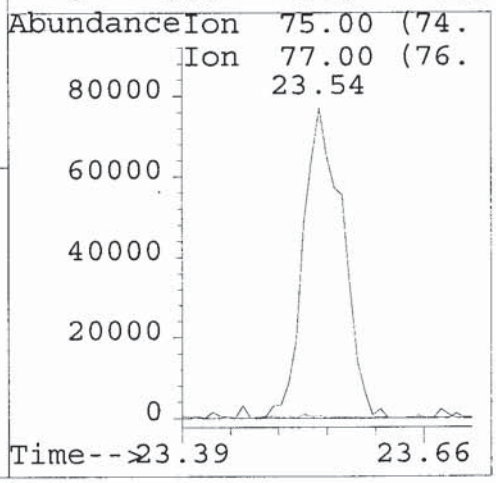




#63
1,2,3-Trichloropropane
Concen: 19.60 ug/l
RT: 23.54 min Scan# 2826
Delta R.T. -0.17 min
Lab File: 09248F04.D
Acq: 24 Sep 98 13:25

Tgt Ion:75 Resp: 229826

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



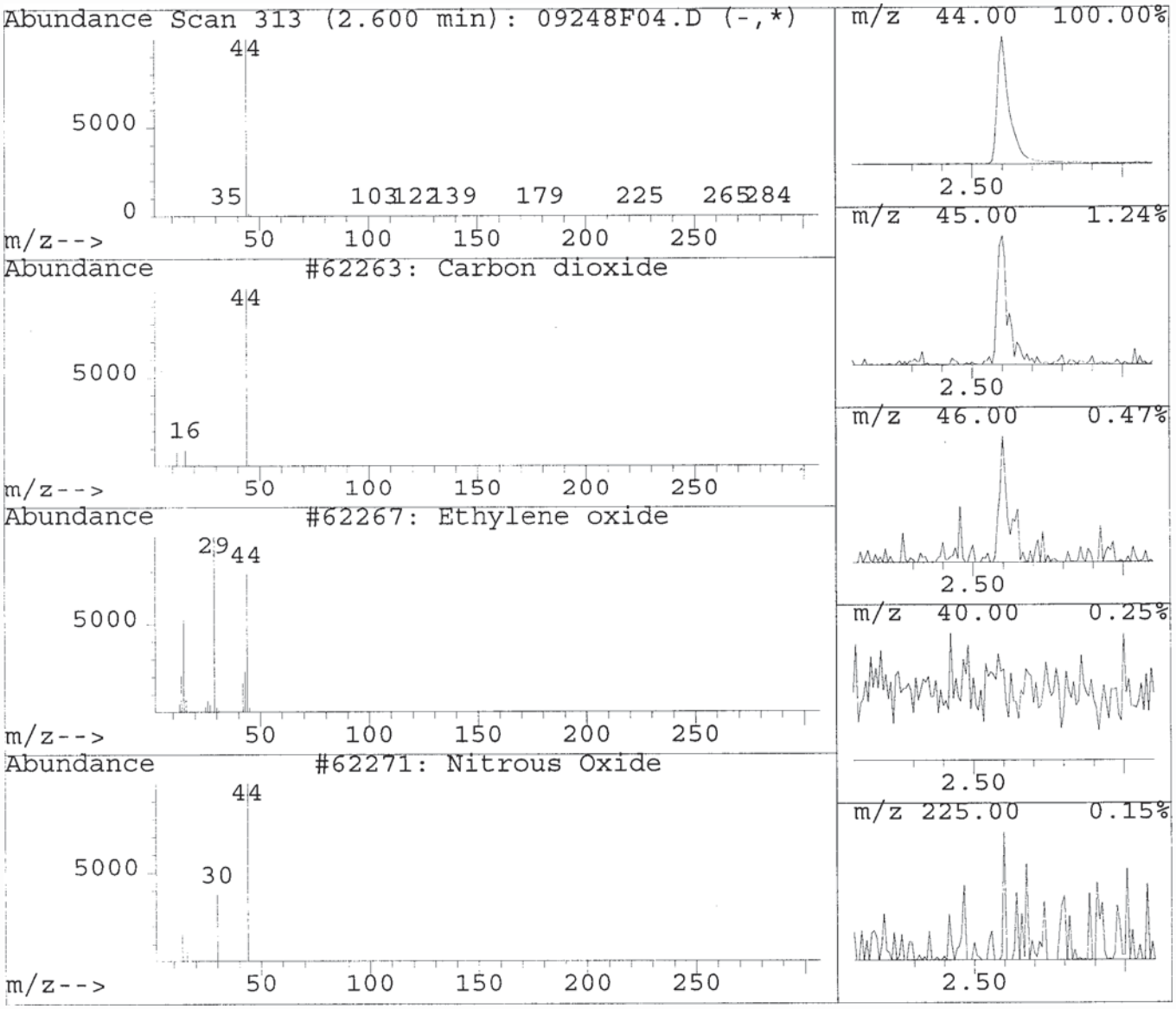
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F04.D Vial: 1
Acq On : 24 Sep 98 13:25 Operator:
Sample : METHOD BLANK 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.60	101.22 ug/l	6322905	Pentafluorobenzene	3123314	10.82

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Ethylene oxide	62267	000075-21-8	3
3	Nitrous Oxide	62271	010024-97-2	3
4	Nordoxepin	36783	000000-00-0	3
5	Acetaldehyde	62265	000075-07-0	2



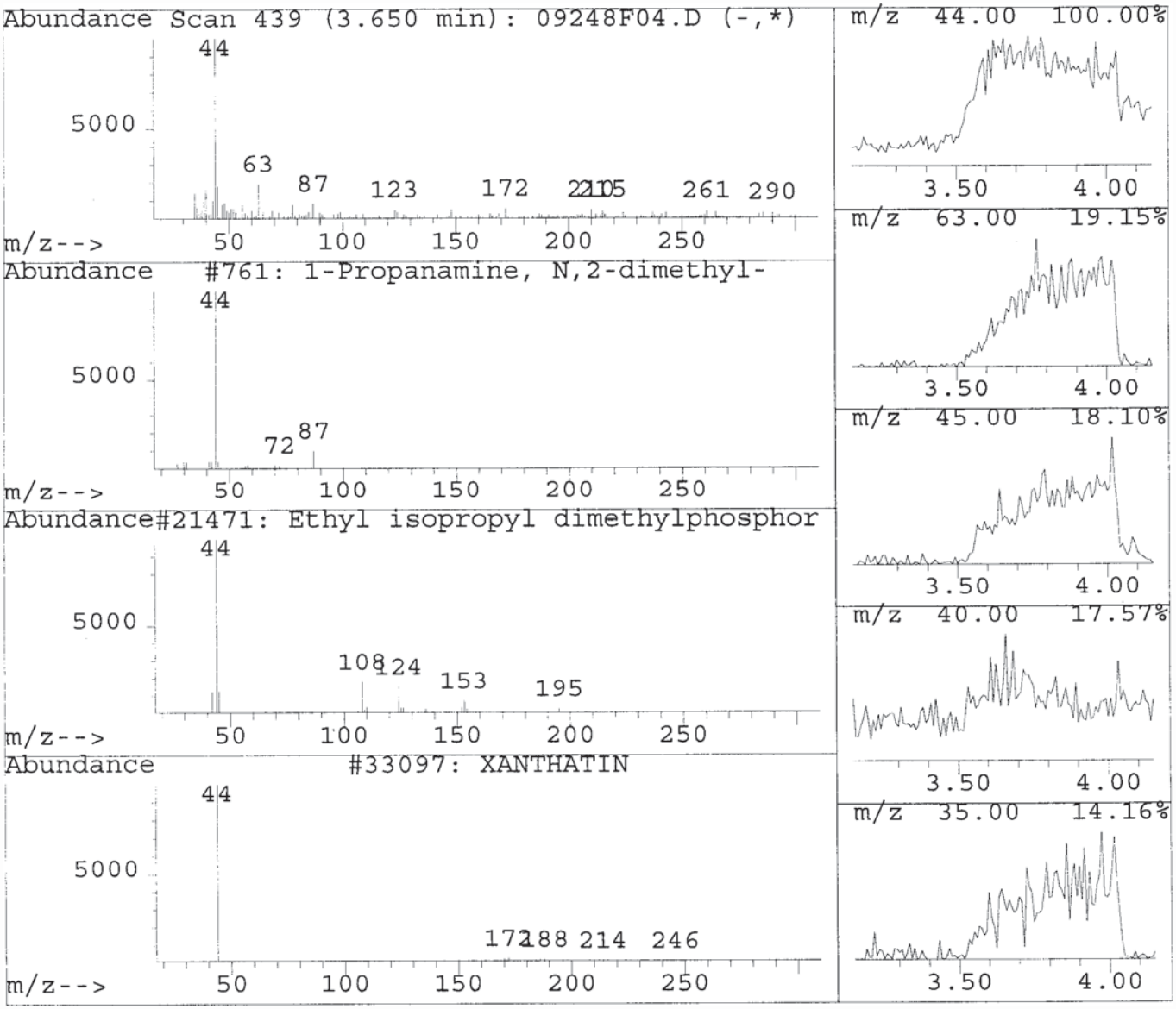
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F04.D Vial: 1
Acq On : 24 Sep 98 13:25 Operator:
Sample : METHOD BLANK 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.65	26.80 ug/l	1674197	Pentafluorobenzene	3123314	10.82

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Propanamine, N,2-dimethyl-	761	000625-43-4	46
2	Ethyl isopropyl dimethylphosphorami	21471	000000-00-0	38
3	XANTHATIN	33097	026791-73-1	38
4	Amphetamine	65610	000300-62-9	38
5	Nortriptyline	36443	000072-69-5	28



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 24 15:35 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	902240	50.00 ug/l	0.02 107.06%
28) 1,4-Difluorobenzene	13.09	114	1740287	50.00 ug/l	0.02 116.02%
40) Chlorobenzene-D5	20.42	117	1562459	50.00 ug/l	0.02 119.42%
60) 1,4-Dichlorobenzene-D4	26.58	152	704089	50.00 ug/l	0.02 113.08%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.22	65	390261	25.26 ug/l	101.05%
29) Toluene-D8	16.67	98	940285	24.04 ug/l	96.18%
41) 1,4-Bromofluorobenzene	23.56	95	413188	23.43 ug/l	93.73%

Target Compounds					Qvalue
8) Ethyl Ether	5.95	45	12790	0.98 ug/l #	8
10) 2-Propanone (acetone)	6.21	43	55870	11.64 ug/l #	55
21) 2-Butanone (MEK)	9.96	43	21842	3.15 ug/l #	61
27) 1,1,1-Trichloroethane	11.50	97	203766	12.81 ug/l	99
35) Toluene	16.85	91	11957	0.24 ug/l #	22
43) Trichloroethylene	13.85	95	104821	9.21 ug/l	96
48) 4-Methyl-2-Pentanone(MIBK)	15.28	43	26838	1.72 ug/l #	100
50) Tetrachloroethylene	18.44	166	118883	11.49 ug/l #	75
52) 2-Hexanone	17.67	43	30105	3.25 ug/l #	2
54) Ethylbenzene	20.63	91	14566	0.27 ug/l #	46
63) 1,2,3-Trichloropropane	23.55	75	197177	16.74 ug/l #	1
79) Naphthalene	32.13	128	19760	0.56 ug/l	100

#27 $\frac{(203766)(50)}{(902240)(0.882)} = 12.8$

$\frac{(10)(50)(12.8)}{(6.462)(1000)} = 0.99$ ug/g

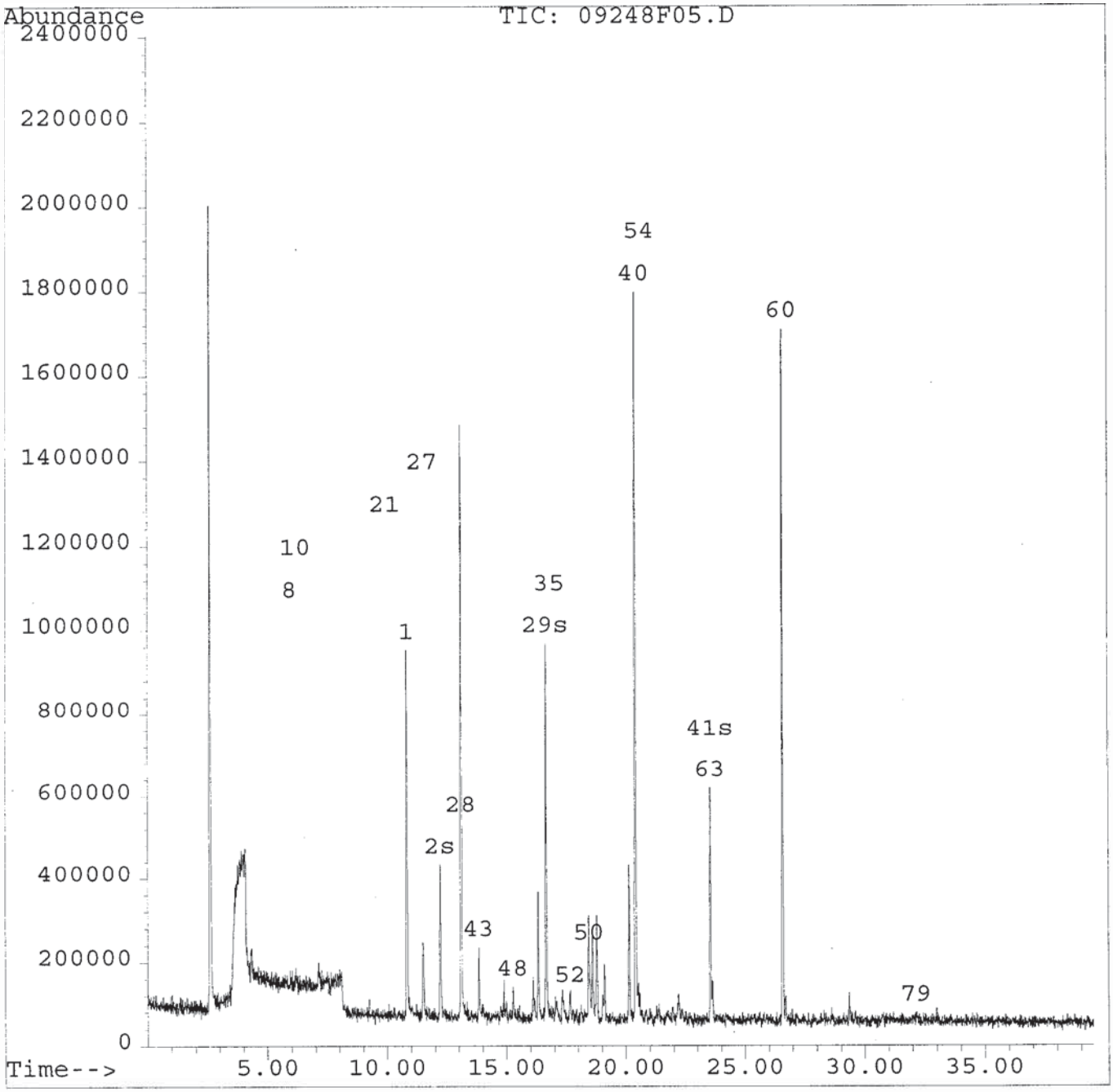
(#) = qualifier out of range (m) = manual integration

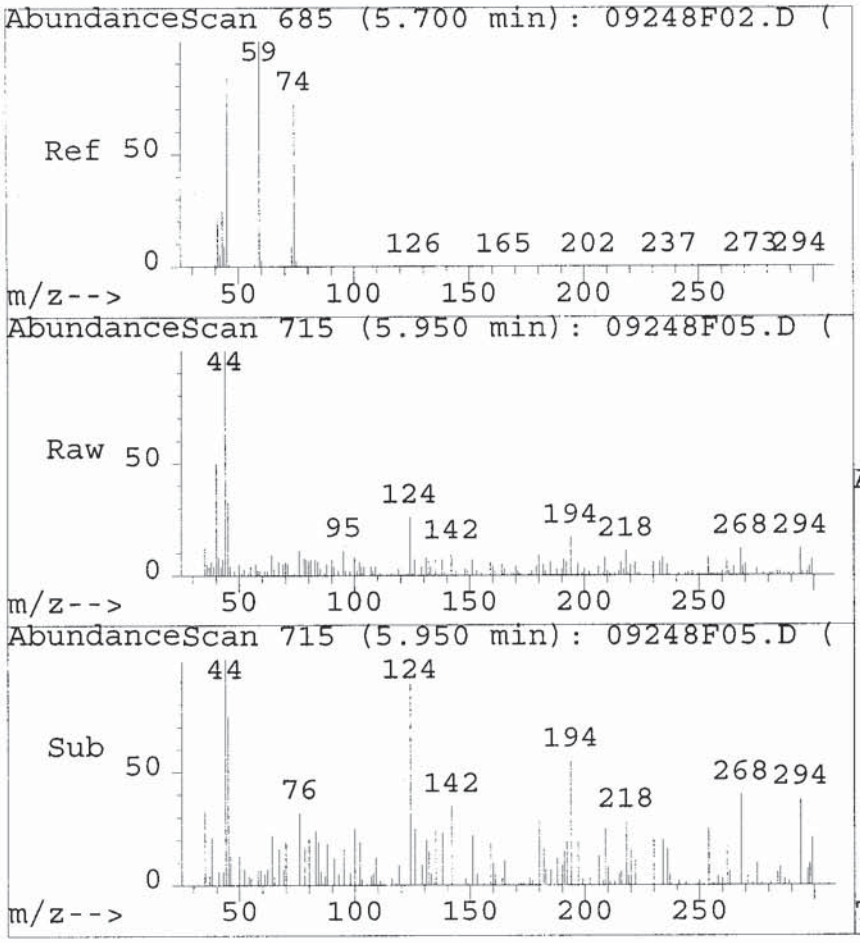
Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D
Acq On : 24 Sep 98 14:19
Sample : MW-285-23-25 50X
Misc : NWIRP
Quant Time: Sep 24 15:35 1998

Vial: 2
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration

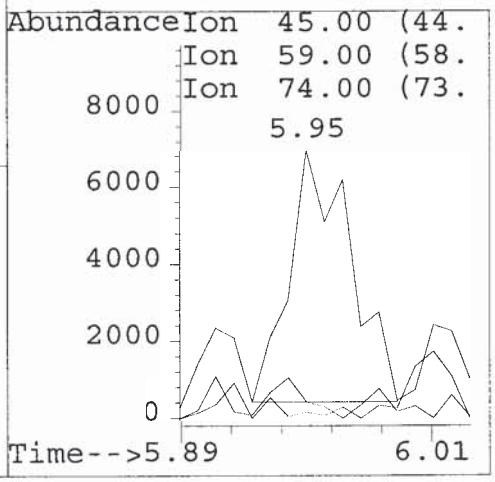


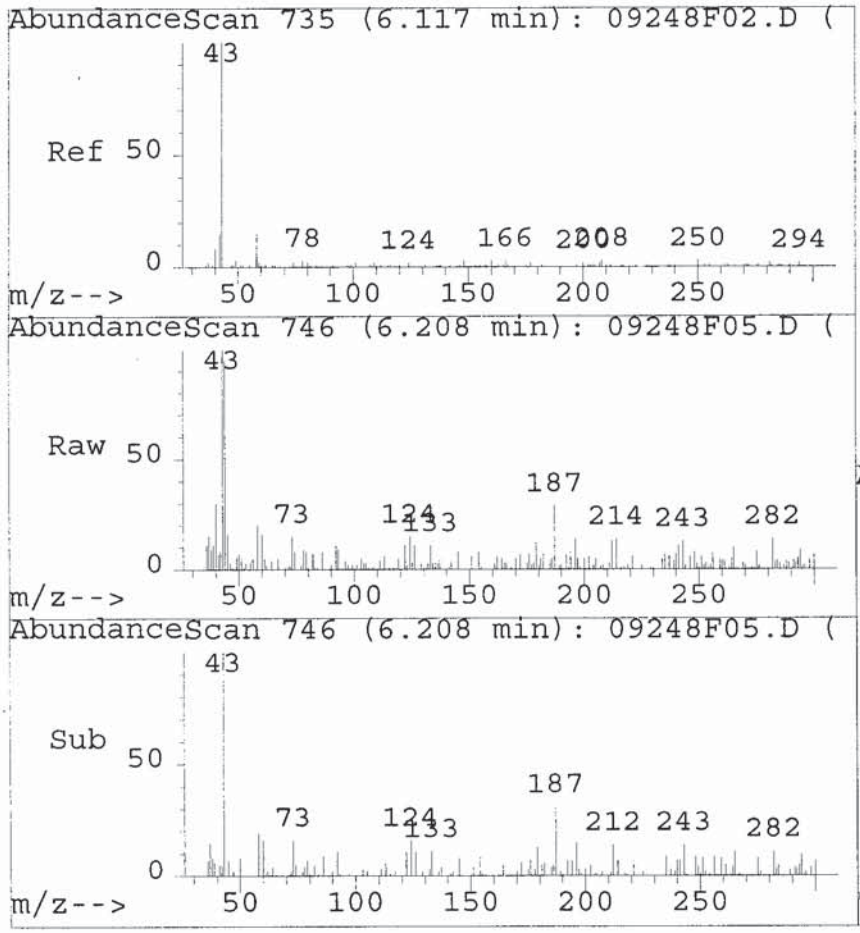


#8
Ethyl Ether
Concen: 0.98 ug/l
RT: 5.95 min Scan# 715
Delta R.T. 0.26 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:45 Resp: 12790

Ion	Ratio	Lower	Upper
45	100		
59	0.0	80.2	120.2#
74	0.0	46.0	69.0#
0	0.0	0.0	0.0

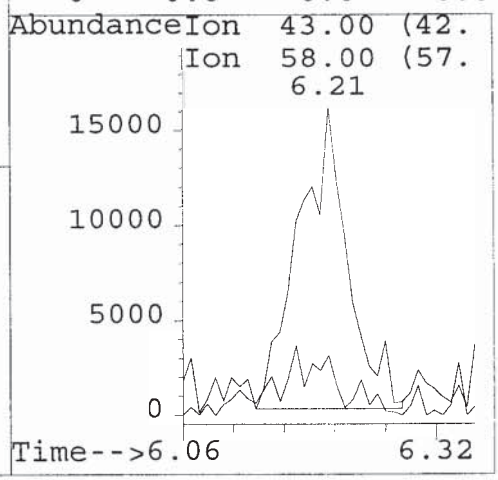


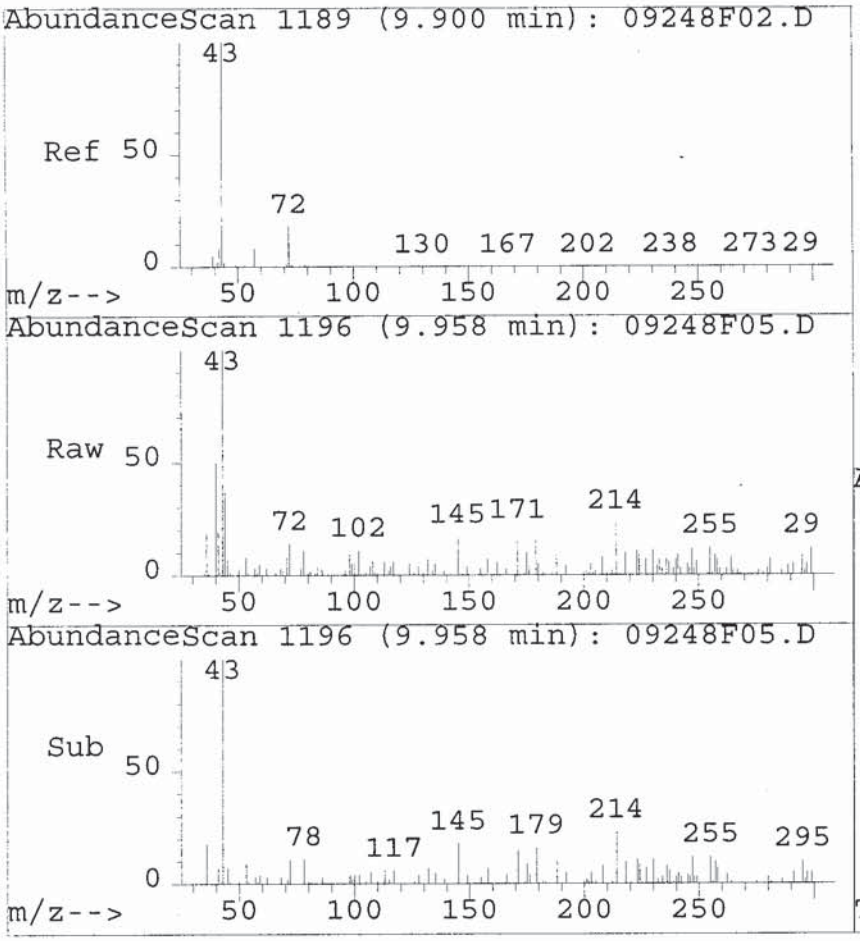


#10
2-Propanone (acetone)
Concen: 11.64 ug/l
RT: 6.21 min Scan# 746
Delta R.T. 0.10 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:43 Resp: 55870

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.1	25.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

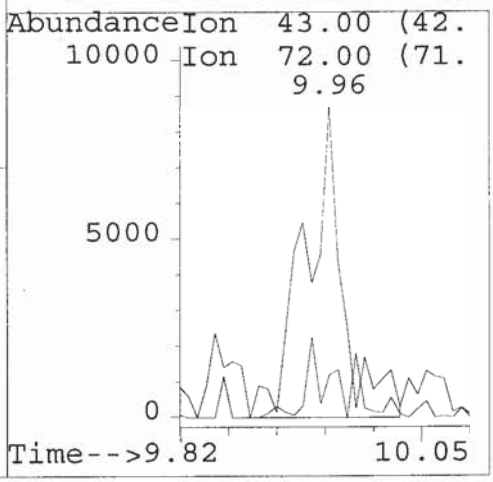


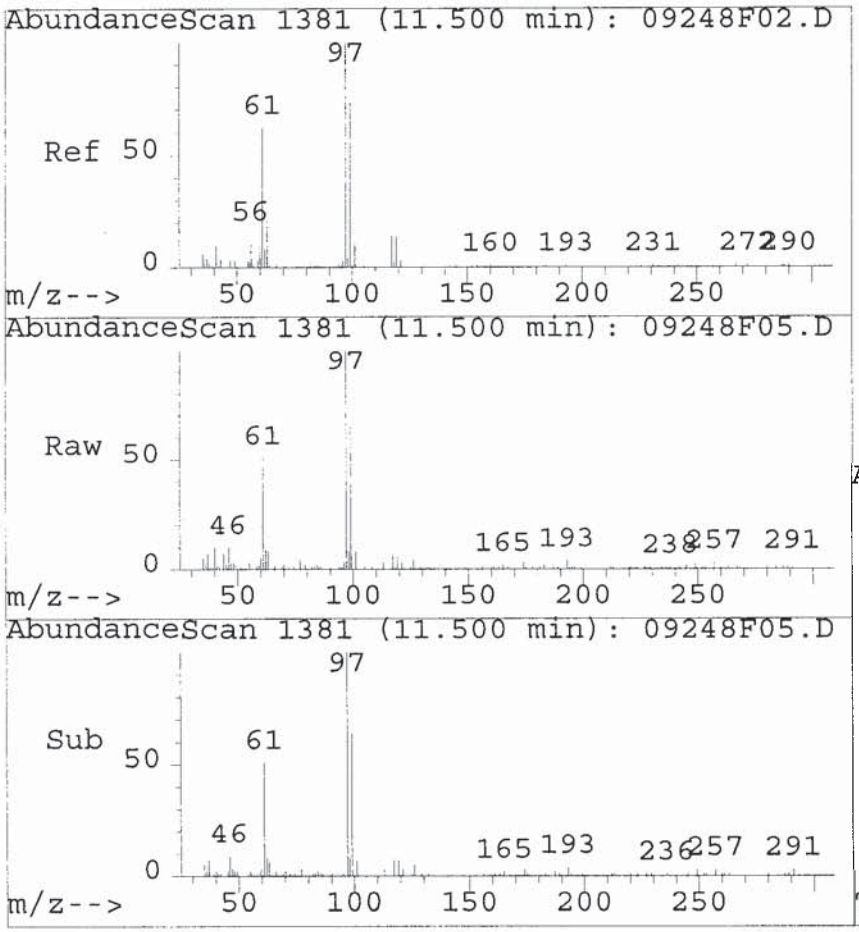


#21
2-Butanone (MEK)
Concen: 3.15 ug/l
RT: 9.96 min Scan# 1196
Delta R.T. 0.07 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:43 Resp: 21842

Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.3	19.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

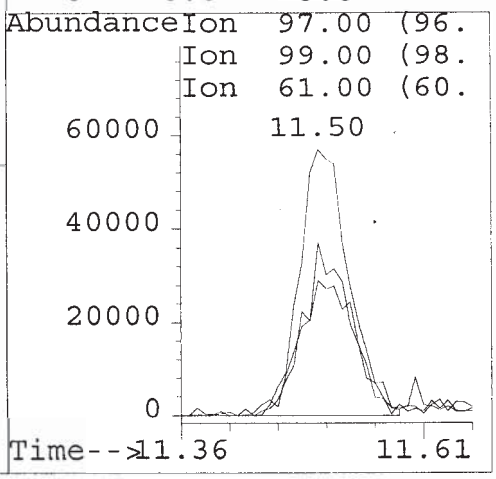


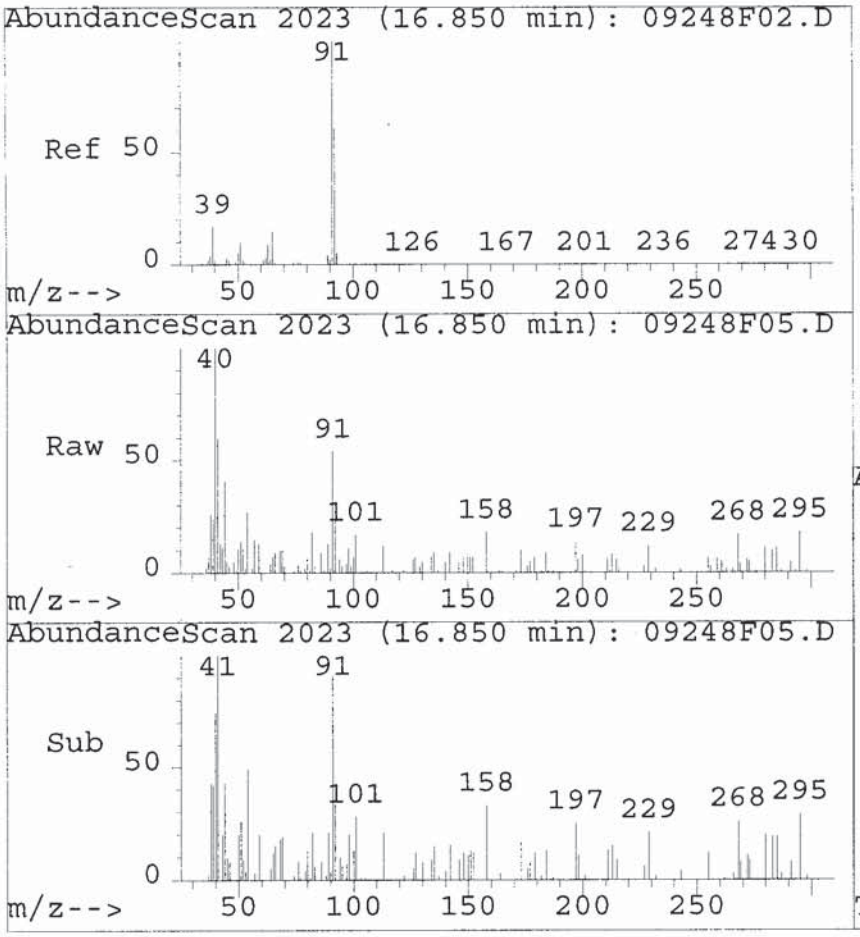


#27
1,1,1-Trichloroethane
Concen: 12.81 ug/l
RT: 11.50 min Scan# 1381
Delta R.T. 0.01 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:97 Resp: 203766

Ion	Ratio	Lower	Upper
97	100		
99	61.7	50.0	75.0
61	58.5	47.8	71.8
0	0.0	0.0	0.0

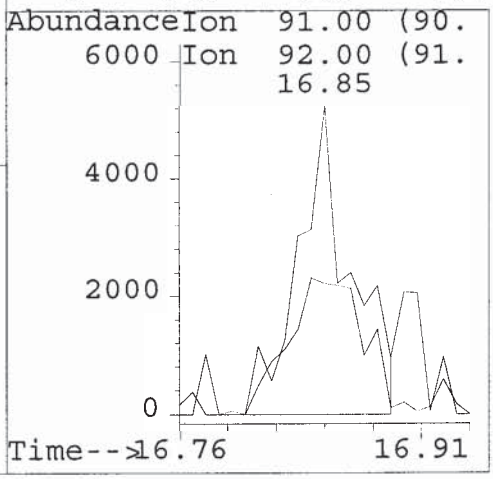


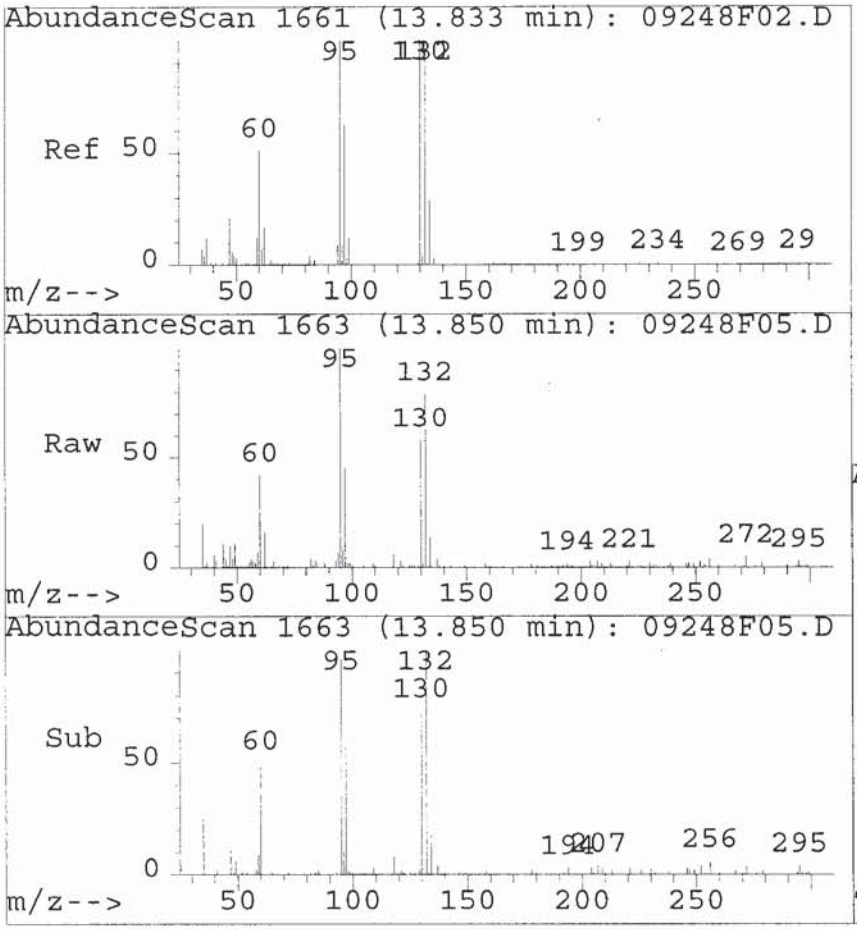


#35
Toluene
Concen: 0.24 ug/l
RT: 16.85 min Scan# 2023
Delta R.T. 0.01 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:91 Resp: 11957

Ion	Ratio	Lower	Upper
91	100		
92	0.0	45.8	68.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

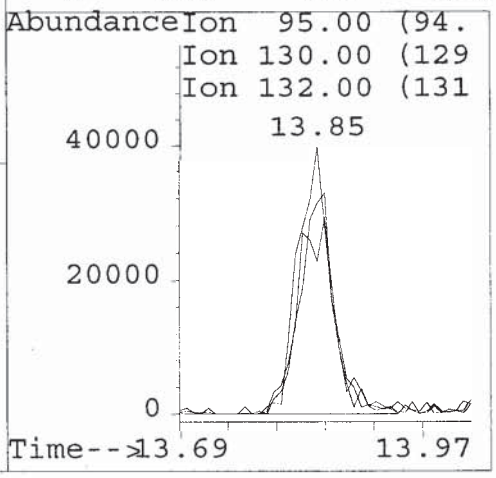


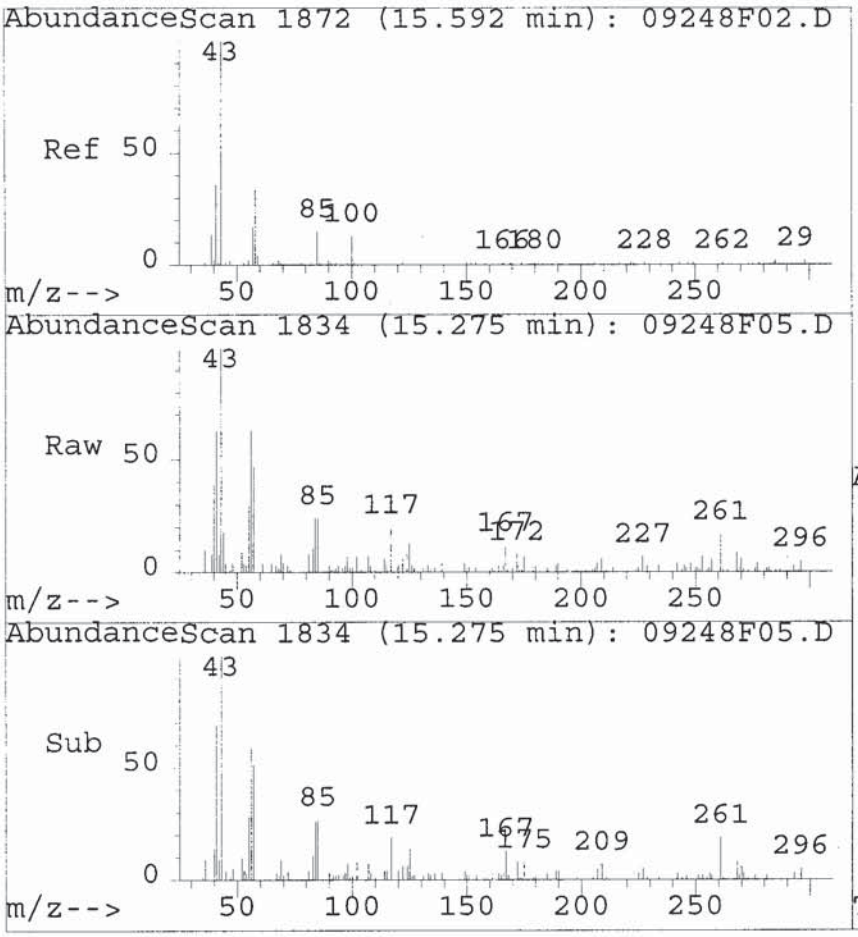


#43
Trichloroethylene
Concen: 9.21 ug/l
RT: 13.85 min Scan# 1663
Delta R.T. 0.02 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:95 Resp: 104821

Ion	Ratio	Lower	Upper
95	100		
130	83.2	71.4	107.2
132	87.4	70.8	106.2
0	0.0	0.0	0.0

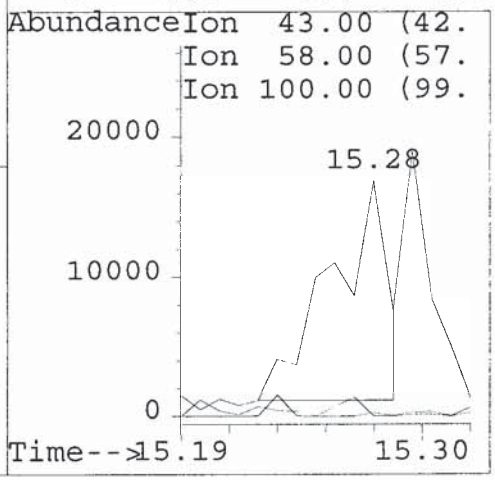


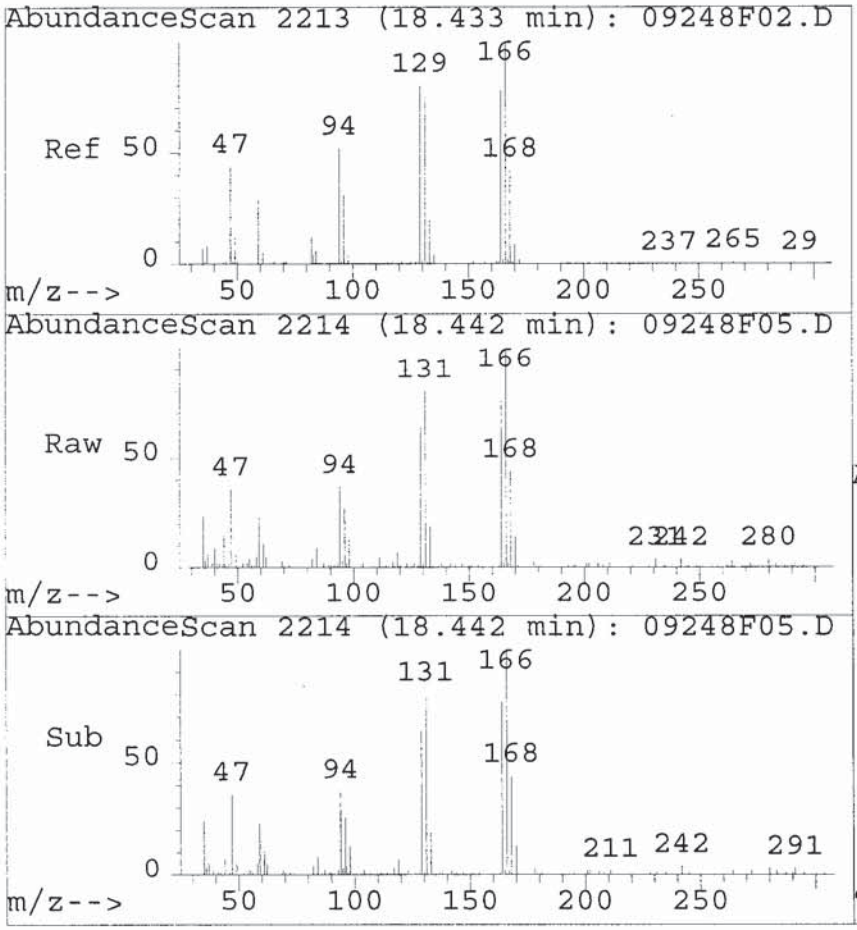


#48
4-Methyl-2-Pentanone(MIBK)
Concen: 1.72 ug/l
RT: 15.28 min Scan# 1834
Delta R.T. -0.32 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:43 Resp: 26838

Ion	Ratio	Lower	Upper
43	100		
58	0.0	0.0	0.0
100	0.0	0.0	0.0
0	0.0	0.0	0.0

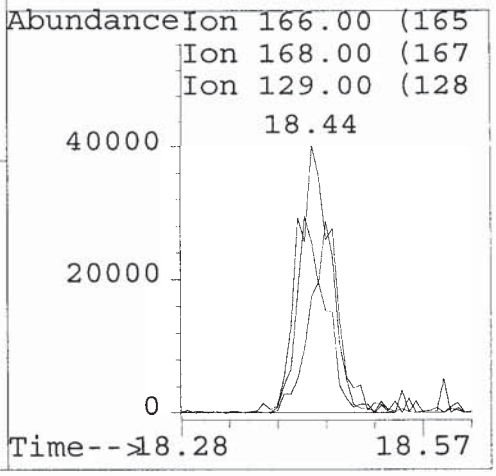


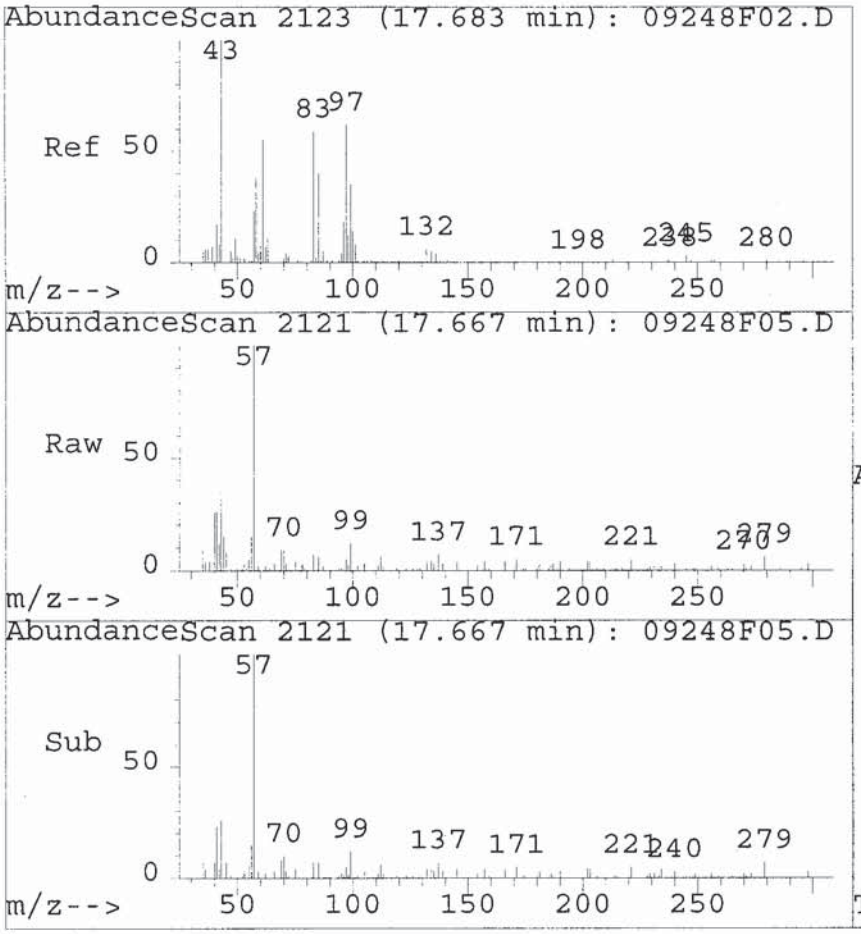


#50
Tetrachloroethylene
Concen: 11.49 ug/l
RT: 18.44 min Scan# 2214
Delta R.T. 0.02 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:166 Resp: 118883

Ion	Ratio	Lower	Upper
166	100		
168	42.4	36.7	55.1
129	43.9	60.4	90.6#
0	0.0	0.0	0.0

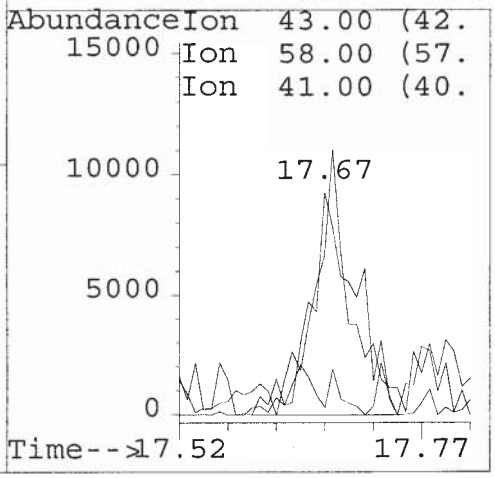


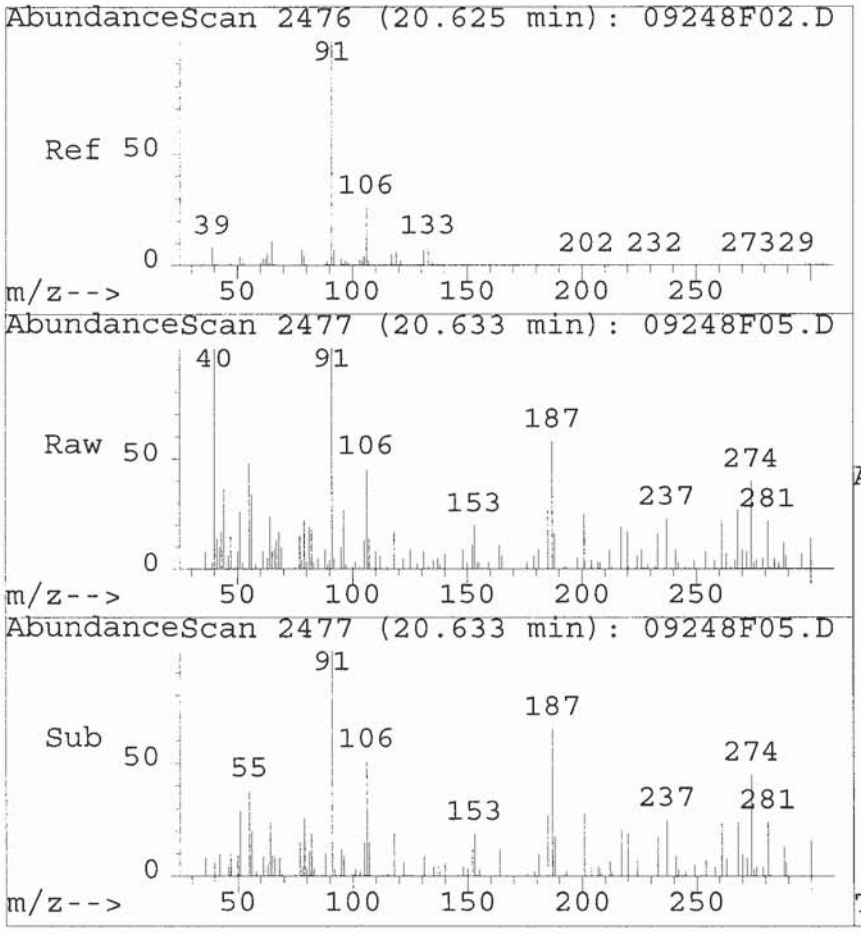


#52
2-Hexanone
Concen: 3.25 ug/l
RT: 17.67 min Scan# 2121
Delta R.T. -0.02 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:43 Resp: 30105

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#
41	93.6	13.7	20.5#
0	0.0	0.0	0.0

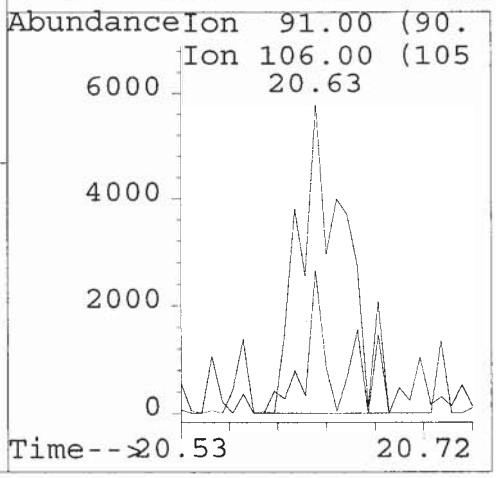


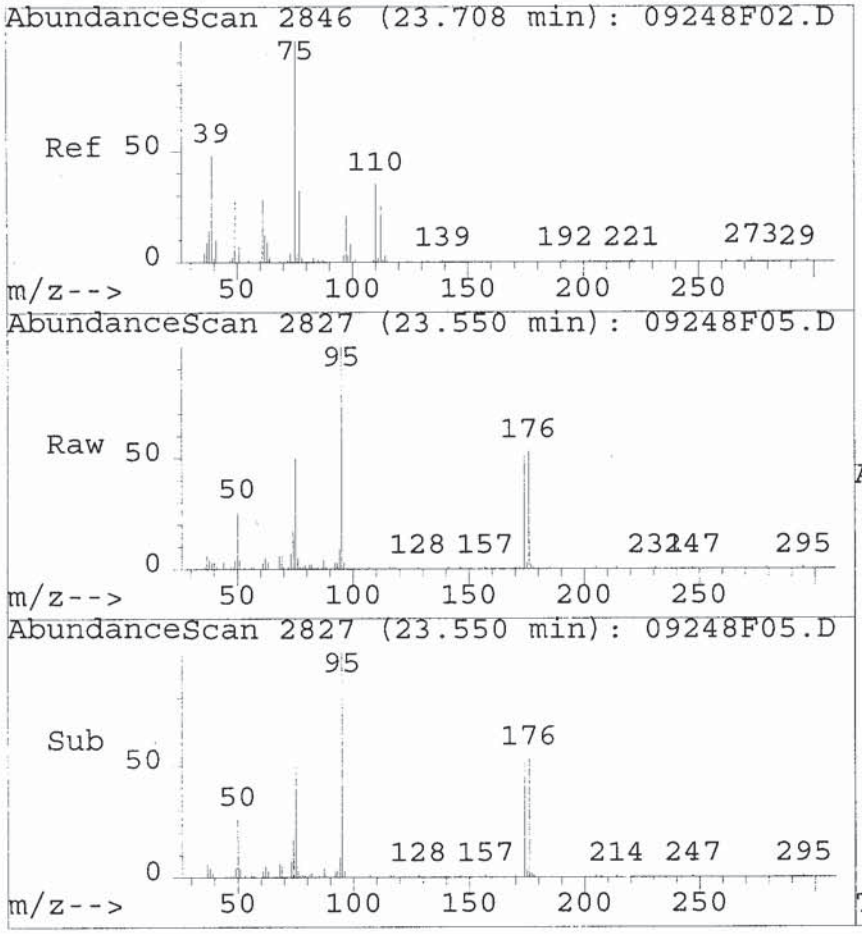


#54
Ethylbenzene
Concen: 0.27 ug/l
RT: 20.63 min Scan# 2477
Delta R.T. 0.02 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:91 Resp: 14566

Ion	Ratio	Lower	Upper
91	100		
106	0.0	22.6	34.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

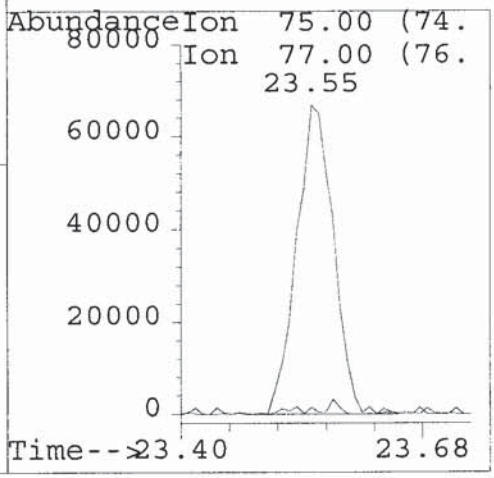


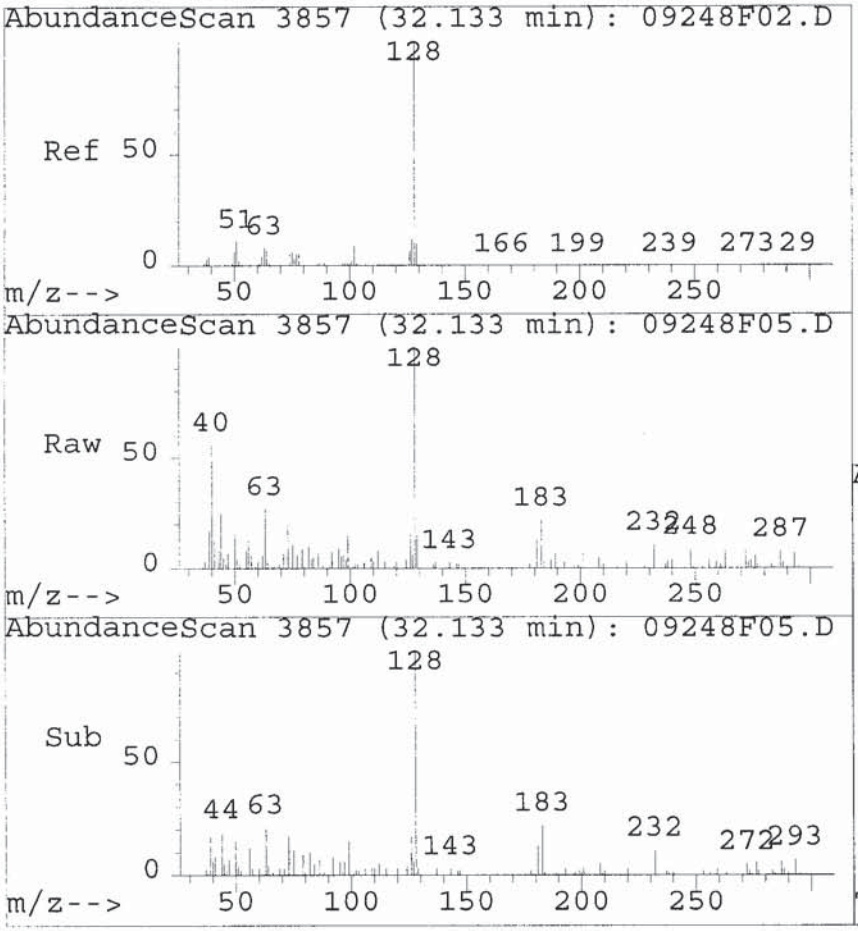


#63
1,2,3-Trichloropropane
Concen: 16.74 ug/l
RT: 23.55 min Scan# 2827
Delta R.T. -0.16 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:75 Resp: 197177

Ion	Ratio	Lower	Upper
75	100		
77	0.0	533.8	800.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

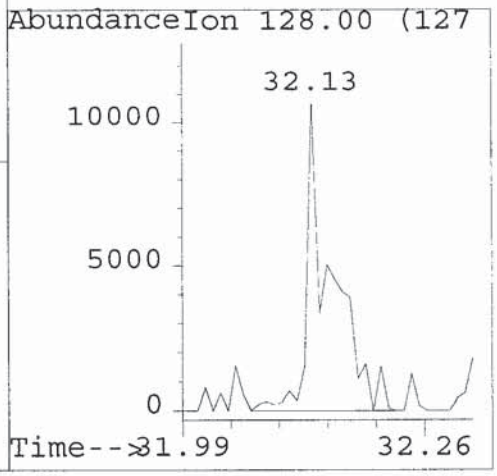




#79
Naphthalene
Concen: 0.56 ug/l
RT: 32.13 min Scan# 3857
Delta R.T. -0.00 min
Lab File: 09248F05.D
Acq: 24 Sep 98 14:19

Tgt Ion:128 Resp: 19760

Ion	Ratio	Lower	Upper
128	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



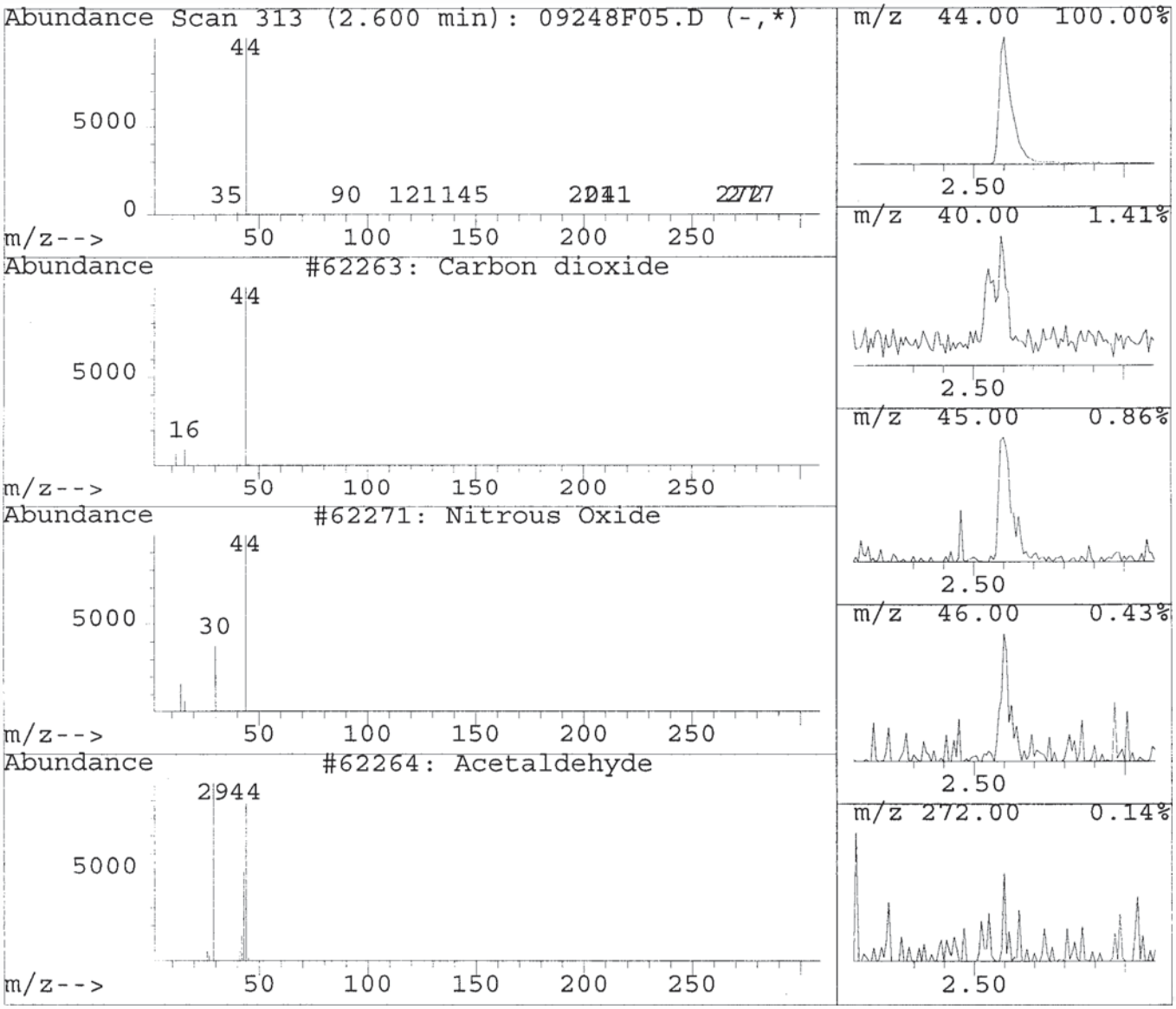
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
2.60	103.13 ug/l	5558037	Pentafluorobenzene	2694648	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Nitrous Oxide	62271	010024-97-2	3
3	Acetaldehyde	62264	000075-07-0	3
4	Ethylene oxide	62267	000075-21-8	2
5	Ethyne, fluoro-	35	002713-09-9	2



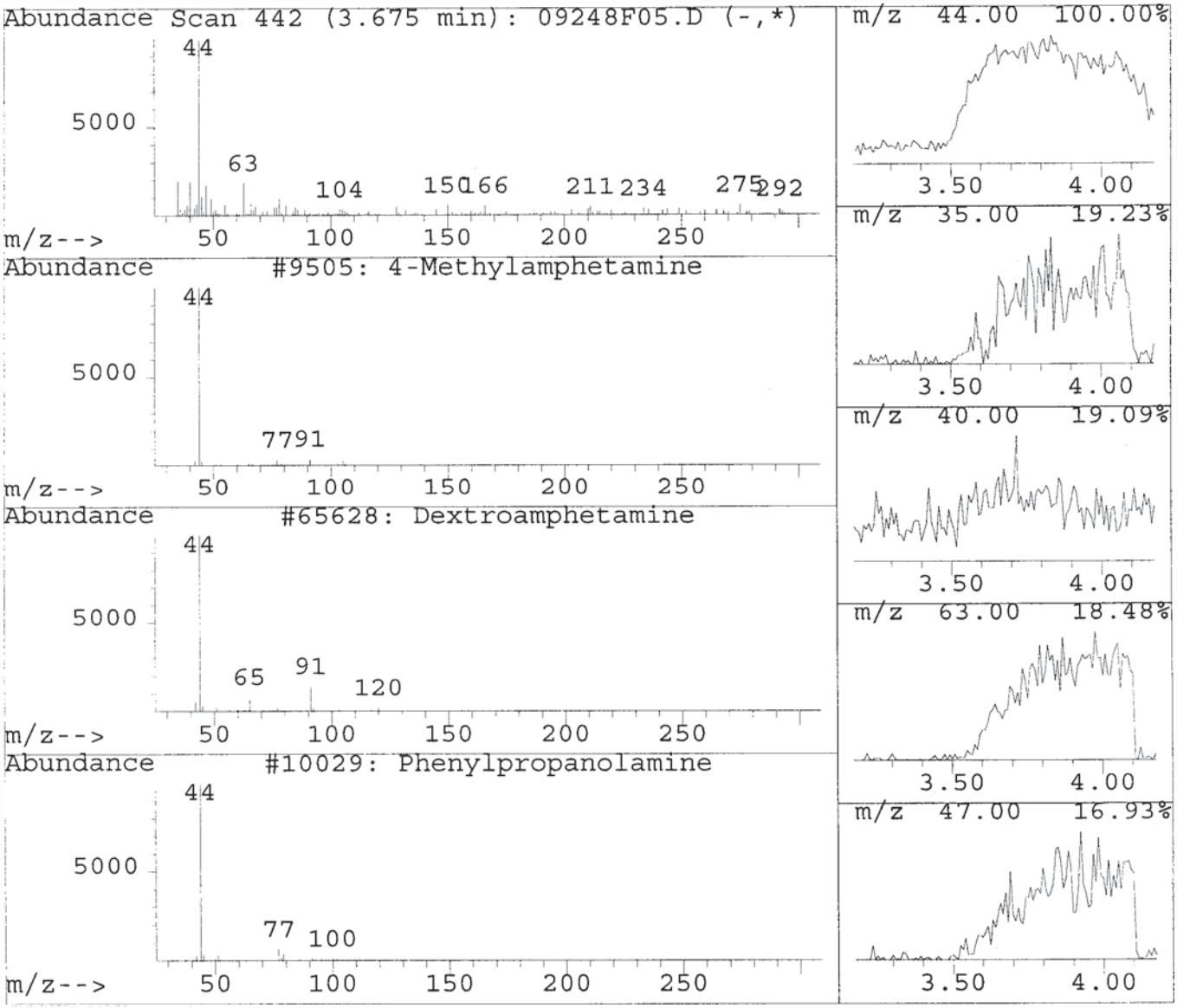
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
3.68	36.69 ug/l	1977311	Pentafluorobenzene	2694648	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Methylamphetamine	9505	000000-00-0	47
2	Dextroamphetamine	65628	000051-64-9	47
3	Phenylpropanolamine	10029	000492-41-1	38
4	Benzenemethanol, 3-hydroxy-.alpha.-	14268	000059-42-7	28
5	Benzenemethanol, .alpha.-(1-aminoet	66861	014838-15-4	28



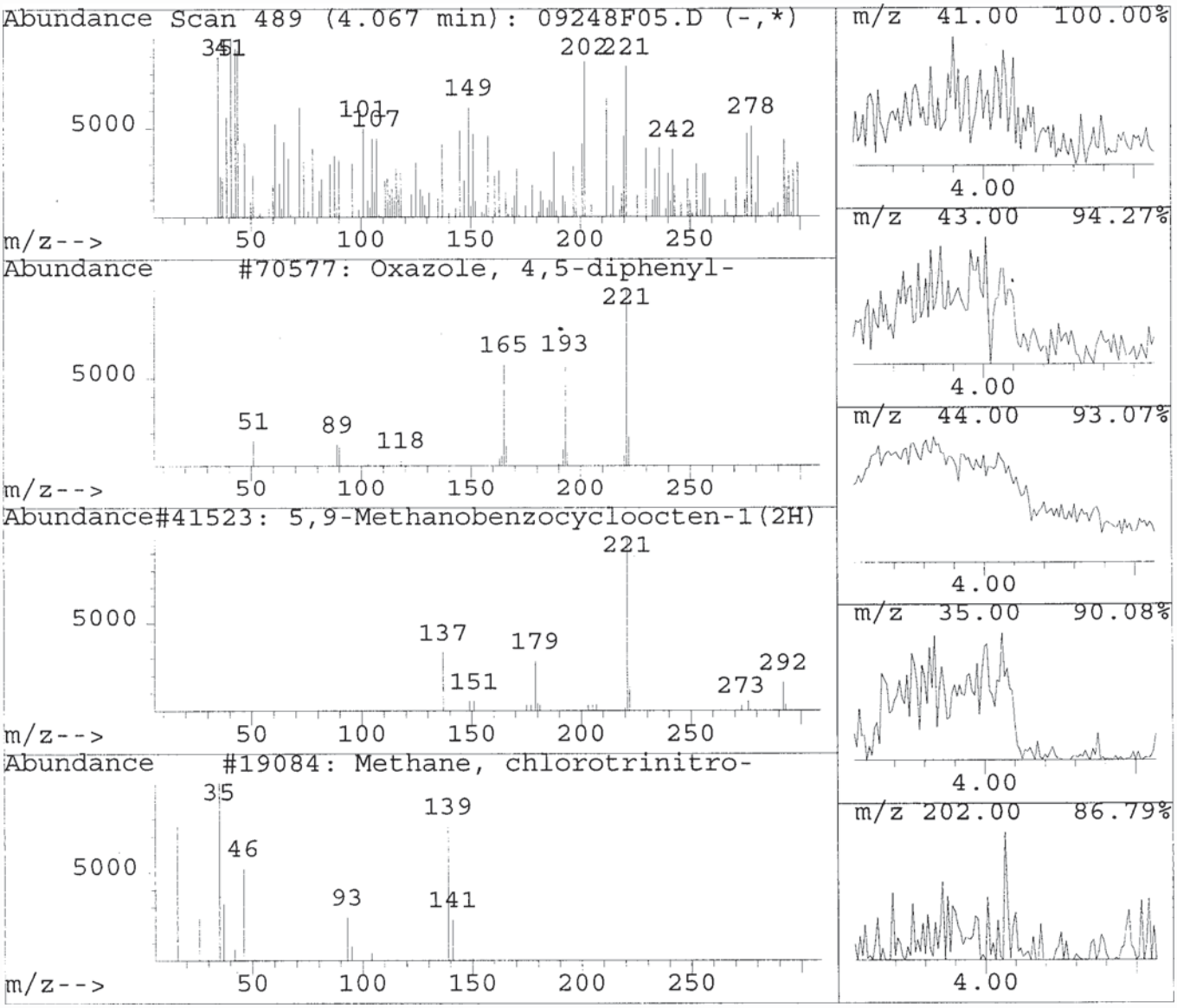
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
4.07	17.03 ug/l	918039	Pentafluorobenzene	2694648	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxazole, 4,5-diphenyl-	70577	004675-18-7	9
2	5,9-Methanobenzocycloocten-1(2H)-on	41523	054833-46-4	9
3	Methane, chlorotrinitro-	19084	001943-16-4	9
4	2,4-Diphenyl-4-methyl-2(Z)-pentene	31183	000000-00-0	9
5	Benzo[b]selenophene-3-carbonitrile,	27783	037007-54-8	9



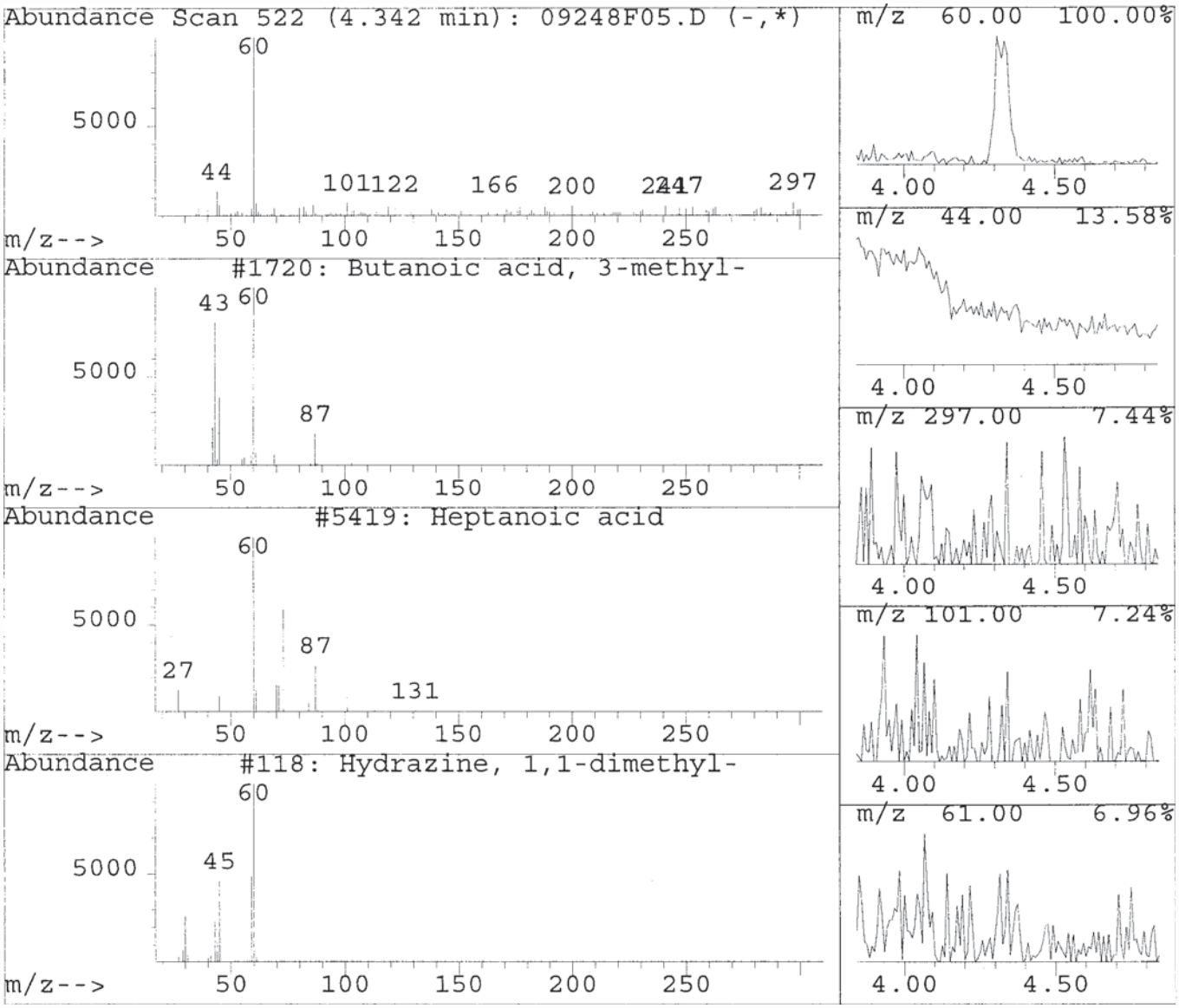
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
4.34	6.16 ug/l	332026	Pentafluorobenzene	2694648	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, 3-methyl-	1720	000503-74-2	9
2	Heptanoic acid	5419	000111-14-8	9
3	Hydrazine, 1,1-dimethyl-	118	000057-14-7	9
4	Thietane, 2,4-dimethyl-	1737	043044-24-2	9
5	Serine	63650	000056-45-1	5



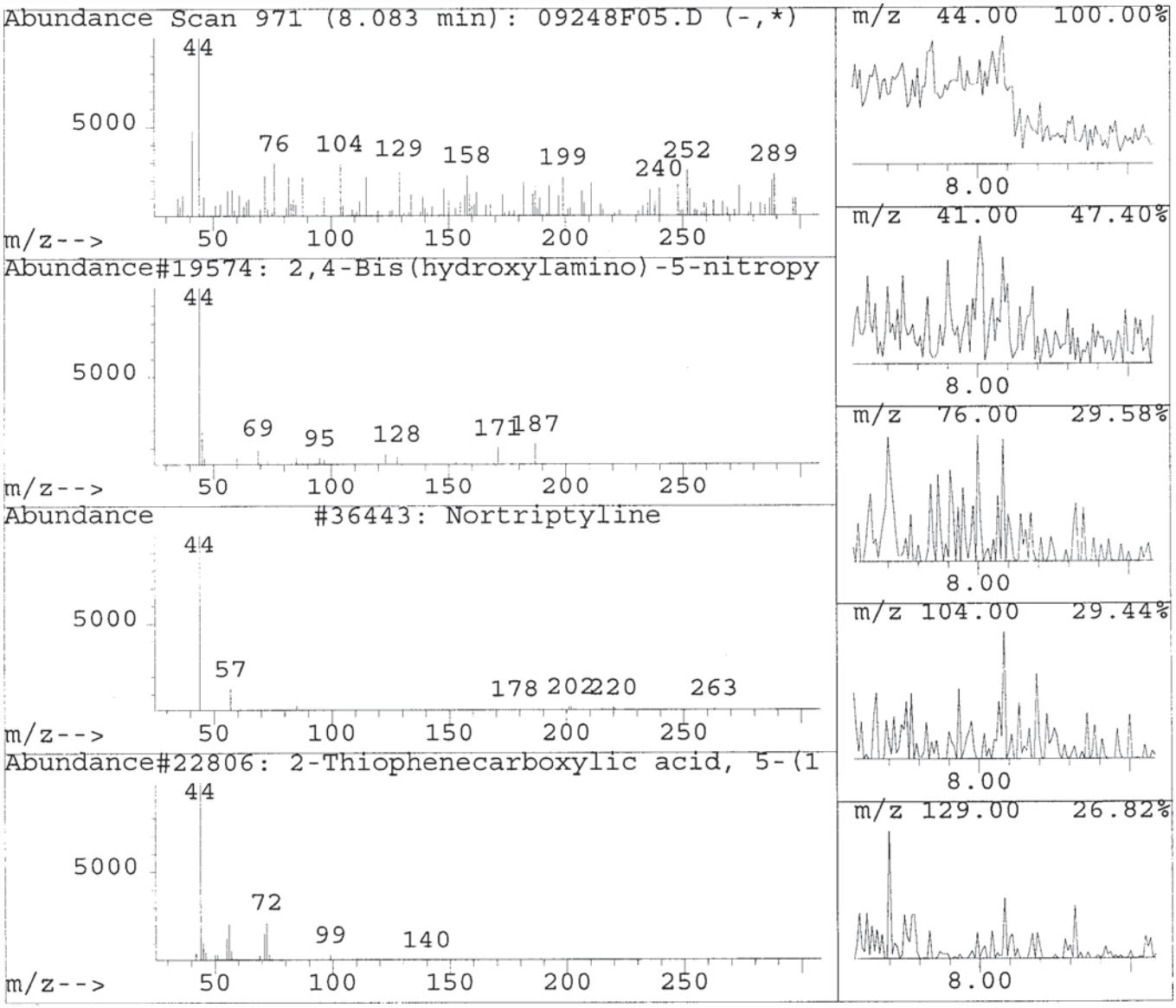
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
8.08	7.45 ug/l	401425	Pentafluorobenzene	2694648	10.83

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,4-Bis(hydroxylamino)-5-nitropyrim	19574	000000-00-0	35
2	Nortriptyline	36443	000072-69-5	25
3	2-Thiophenecarboxylic acid, 5-(1,1-	22806	054889-42-8	25
4	Pregn-5-en-18-ol, 3,20-diamino-, (3	47227	000468-31-5	23
5	2-Propenoic acid, 3-(dimethylamino)	19627	049582-72-1	17



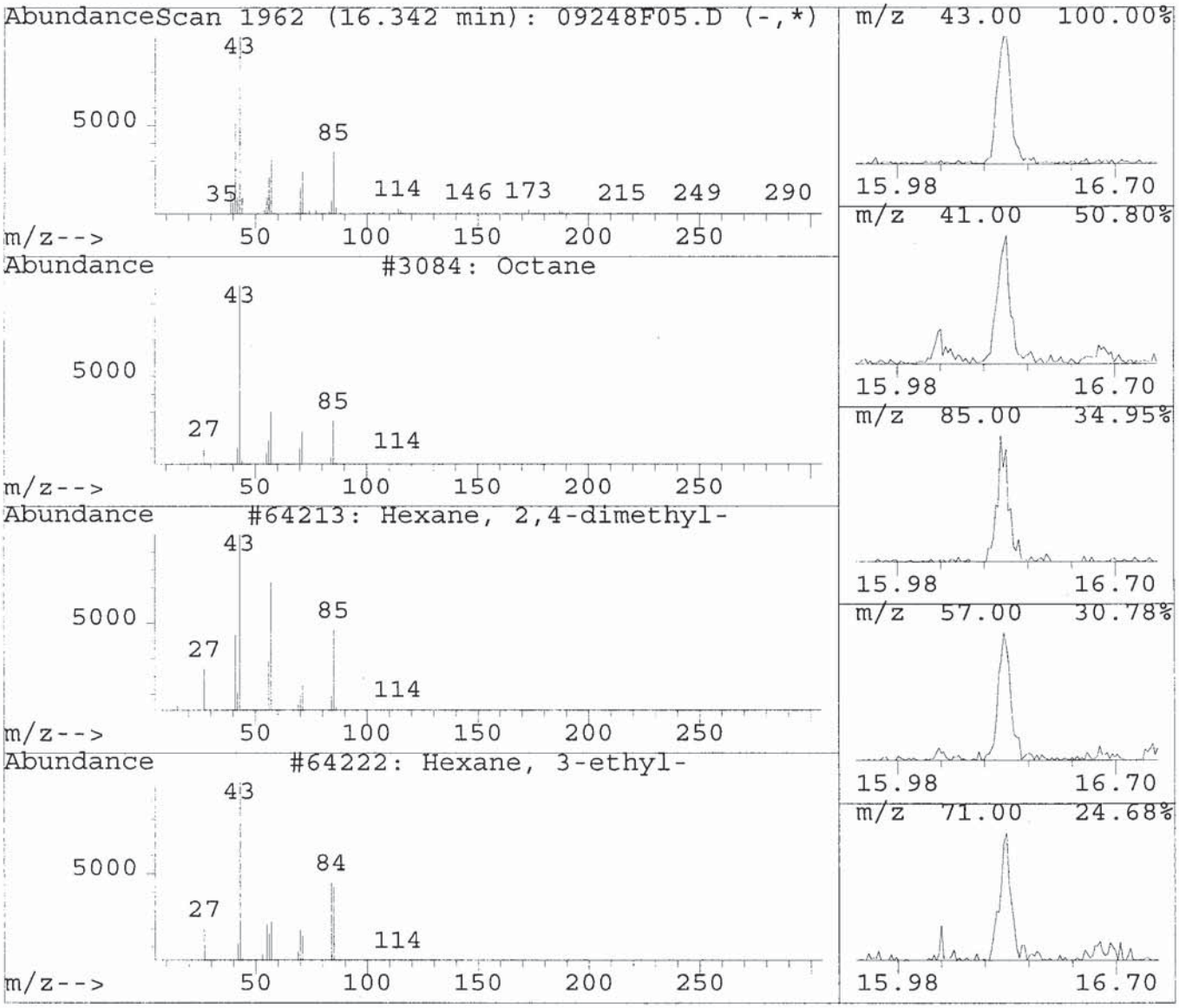
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
16.34	11.42 ug/l	1020541	1,4-Difluorobenzene	4468138	13.09

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane	3084	000111-65-9	91
2	Hexane, 2,4-dimethyl-	64213	000589-43-5	72
3	Hexane, 3-ethyl-	64222	000619-99-8	59
4	Heptane, 2,4-dimethyl-	65120	002213-23-2	56
5	Nonane	65145	000111-84-2	56



Library Search Compound Report

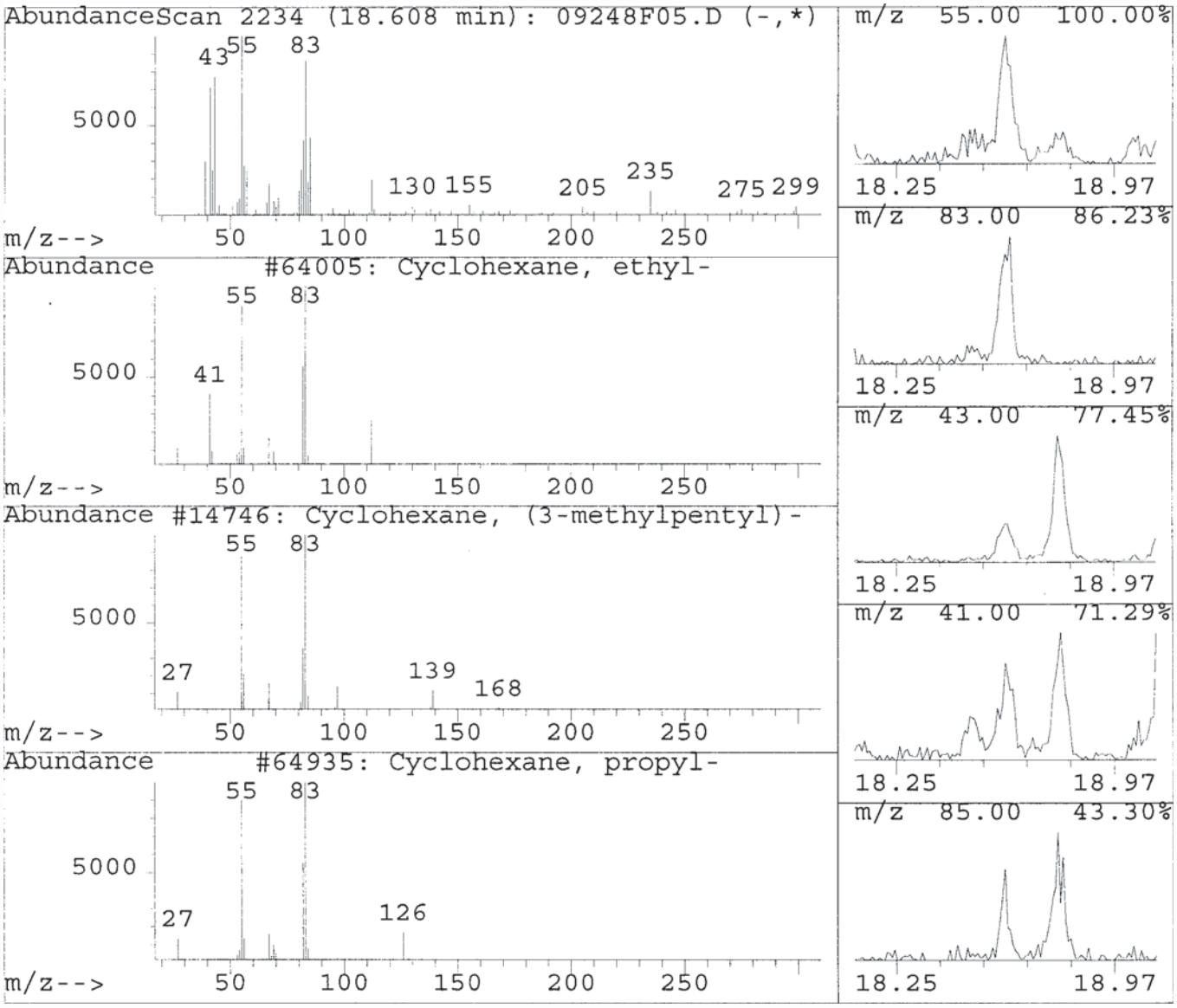
Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
18.61	6.53 ug/l	686382	Chlorobenzene-D5	5255722	20.42

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, ethyl-	64005	001678-91-7	53
2	Cyclohexane, (3-methylpentyl)-	14746	061142-38-9	46
3	Cyclohexane, propyl-	64935	001678-92-8	43
4	Cyclohexane, butyl-	66055	001678-93-9	43
5	Cyclohexane, octyl-	69528	001795-15-9	38

low



Library Search Compound Report

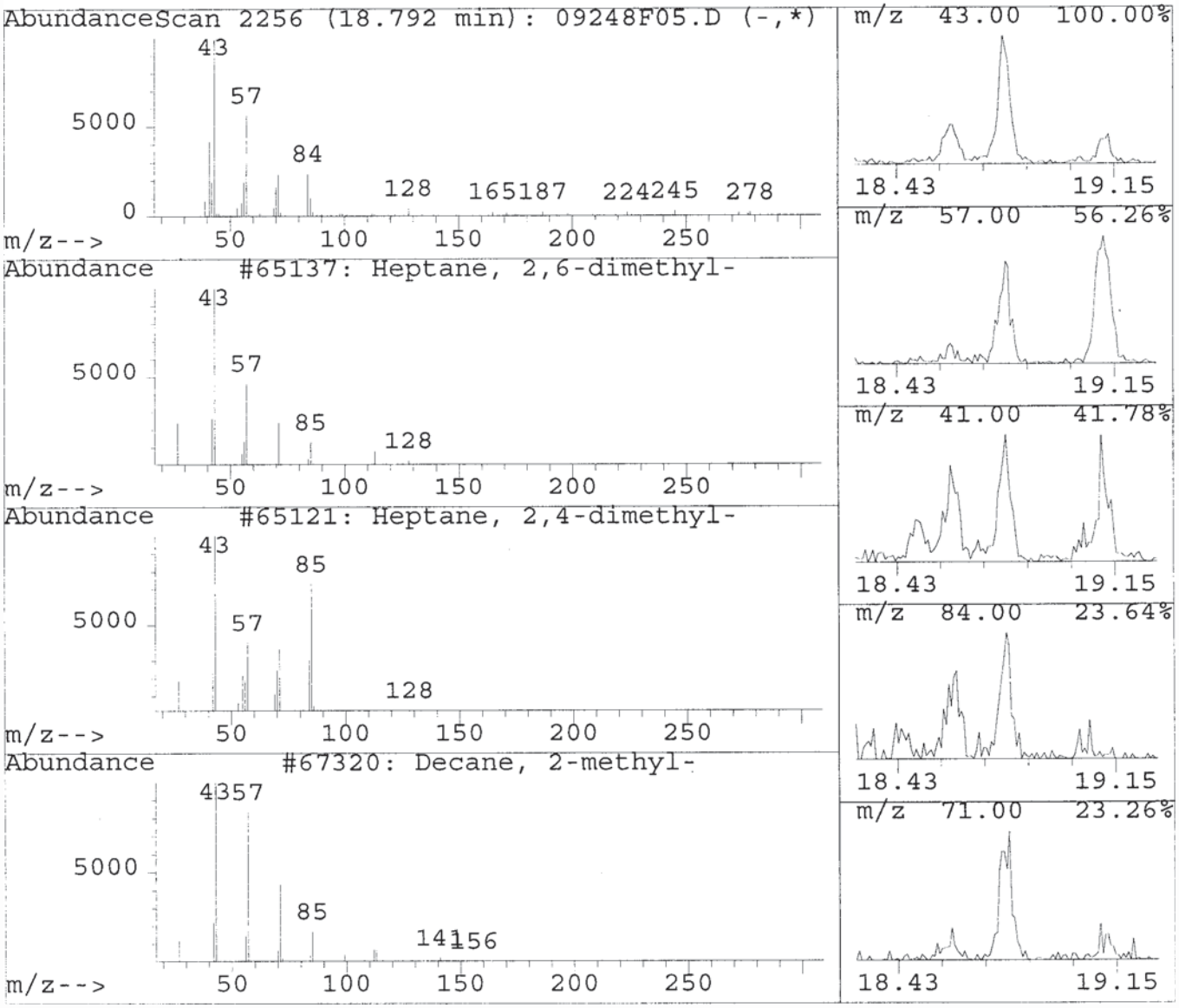
Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
18.79	9.05 ug/l	951151	Chlorobenzene-D5	5255722	20.42

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,6-dimethyl-	65137	001072-05-5	47
2	Heptane, 2,4-dimethyl-	65121	002213-23-2	42
3	Decane, 2-methyl-	67320	006975-98-0	38
4	Tetradecane, 1-chloro-	30366	002425-54-9	38
5	Nonane	65142	000111-84-2	38

low



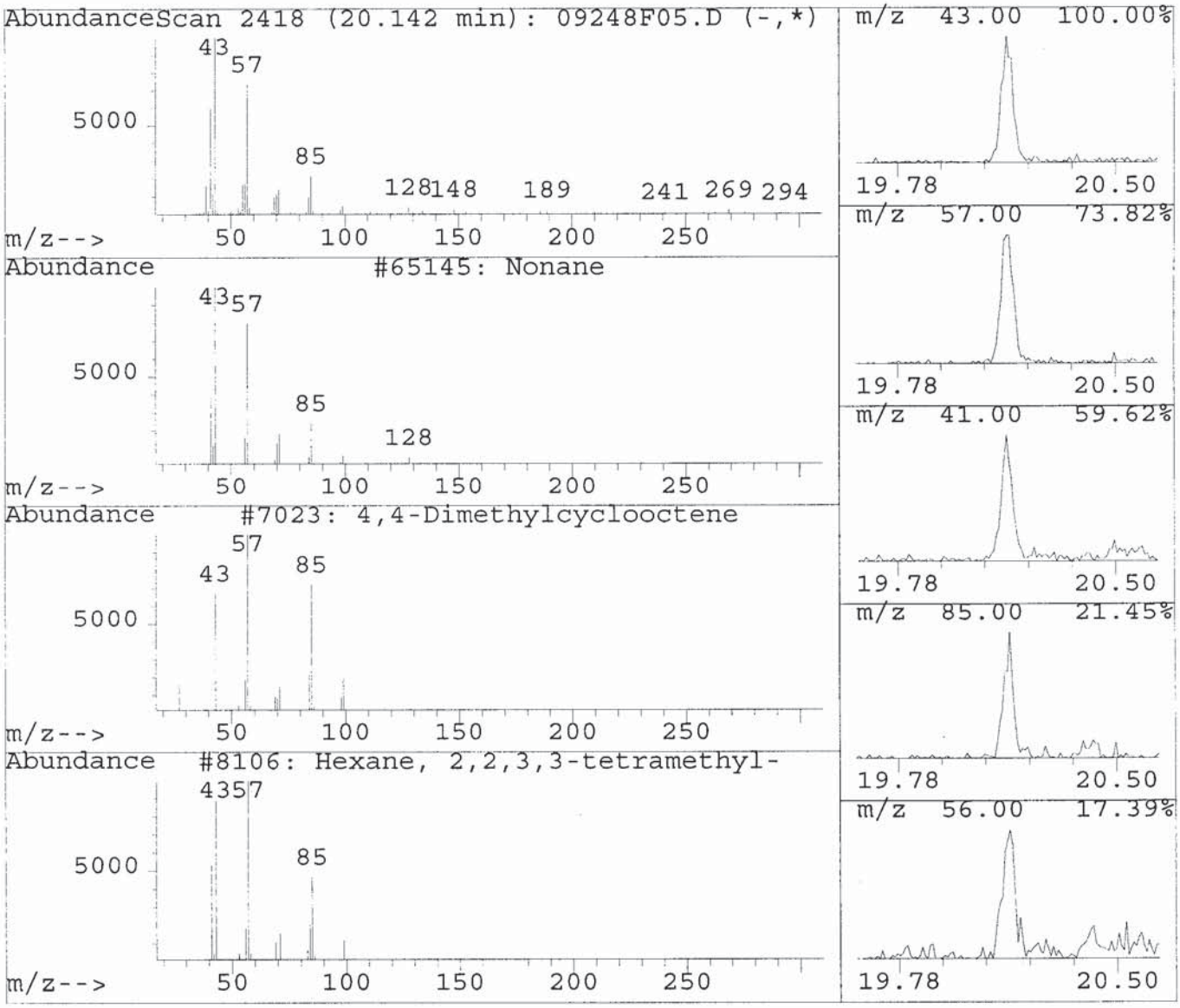
Library Search Compound Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F05.D Vial: 2
Acq On : 24 Sep 98 14:19 Operator:
Sample : MW-285-23-25 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	IS Area	R.T.
20.14	9.94 ug/l	1044427	Chlorobenzene-D5	5255722	20.42

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane	65145	000111-84-2	81
2	4,4-Dimethylcyclooctene	7023	000000-00-0	64
3	Hexane, 2,2,3,3-tetramethyl-	8106	013475-81-5	59
4	Decane, 2,5,6-trimethyl-	19019	062108-23-0	53
5	Heptadecane	71191	000629-78-7	53



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F06.D Vial: 3
Acq On : 24 Sep 98 15:13 Operator:
Sample : MW-285-23-25 MS 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 25 9:10 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	932572	50.00 ug/l	0.02 110.66%
28) 1,4-Difluorobenzene	13.10	114	1745887	50.00 ug/l	0.02 116.39%
40) Chlorobenzene-D5	20.42	117	1593149	50.00 ug/l	0.02 121.76%
60) 1,4-Dichlorobenzene-D4	26.58	152	717201	50.00 ug/l	0.02 115.19%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	403006	25.24 ug/l	100.95%
29) Toluene-D8	16.67	98	969733	24.72 ug/l	98.87%
41) 1,4-Bromofluorobenzene	23.55	95	426352	23.71 ug/l	94.86%

Target Compounds					Qvalue
8) Ethyl Ether	5.97	45	12338	0.91 ug/l #	8
10) 2-Propanone (acetone)	6.18	43	50333	10.15 ug/l #	55
12) 1,1-Dichloroethylene	6.33	96	208144	16.40 ug/l	91
13) Carbon Disulfide	7.34	76	18892	0.36 ug/l	100
21) 2-Butanone (MEK)	9.96	43	17429	2.43 ug/l #	61
27) 1,1,1-Trichloroethane	11.52	97	209928	12.76 ug/l	96
32) Benzene	12.47	78	891069	16.69 ug/l	100
35) Toluene	16.86	91	933344	18.73 ug/l	95
39) Chlorobenzene	20.52	77	415533	20.76 ug/l	92
43) Trichloroethylene	13.85	95	318067	27.41 ug/l	95
48) 4-Methyl-2-Pentanone(MIBK)	15.27	43	47150	2.97 ug/l #	100
50) Tetrachloroethylene	18.46	166	132697	12.58 ug/l	92
52) 2-Hexanone	17.68	43	27722	2.94 ug/l #	1
54) Ethylbenzene	20.85	91	44025	0.79 ug/l	92
55) META/PARA XYLENE	20.83	106	10525	0.50 ug/l #	1
63) 1,2,3-Trichloropropane	23.55	75	207723	17.31 ug/l #	1
69) 1,2,4-Trimethylbenzene	25.38	105	12045	0.29 ug/l #	27
79) Naphthalene	32.17	128	19868	0.55 ug/l	100

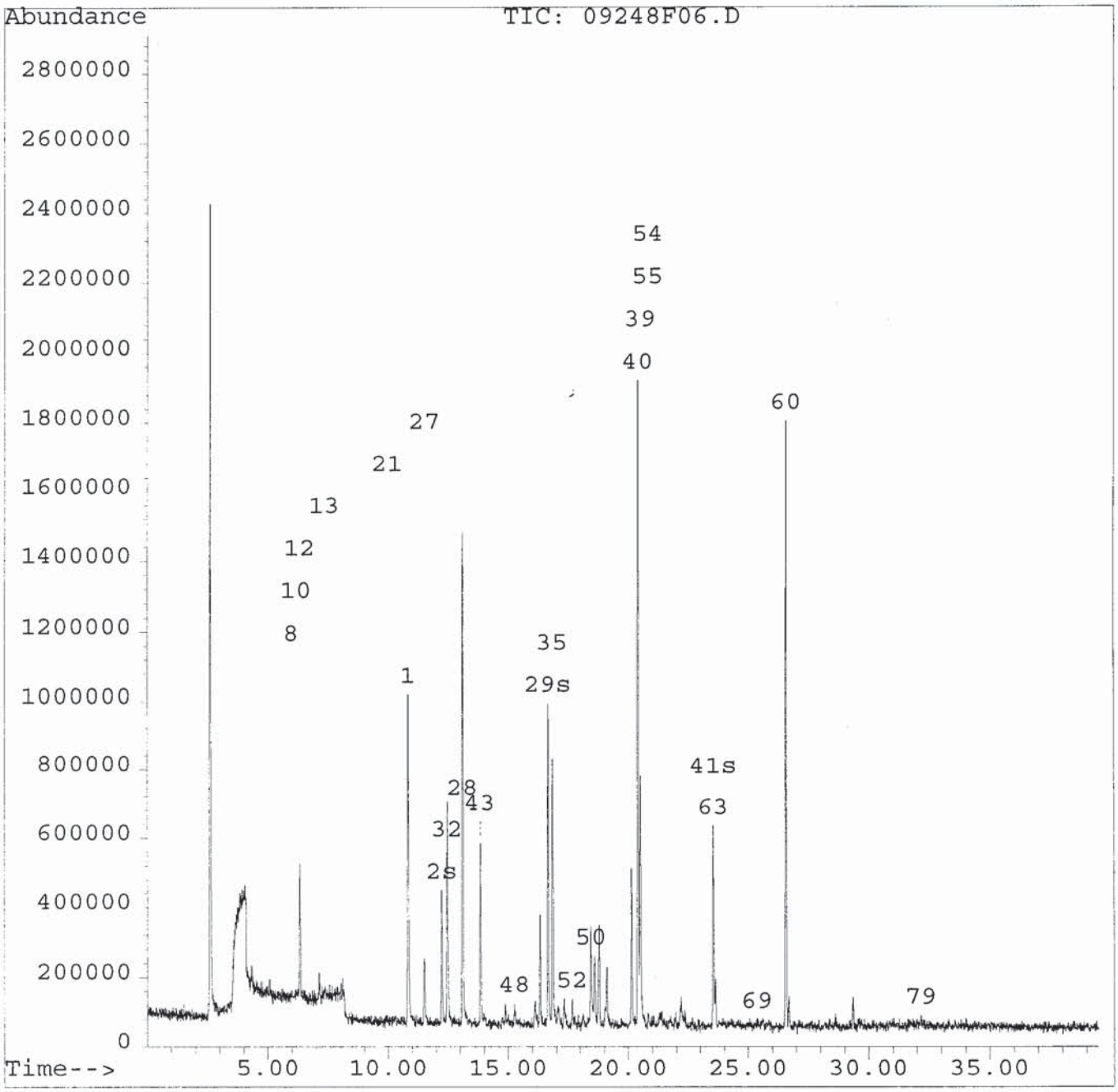
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F06.D
Acq On : 24 Sep 98 15:13
Sample : MW-285-23-25 MS 50X
Misc : NWIRP
Quant Time: Sep 25 9:10 1998

Vial: 3
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F07.D Vial: 4
Acq On : 24 Sep 98 16:07 Operator:
Sample : MW-285-23-25 MSD 50X Inst : Finnigan
Misc : NWIRP Multiplr: 1.00
Quant Time: Sep 25 9:10 1998

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration
IS QA File : C:\ELINK\INSTR1\DATA\SEP02\09028F02.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(RT) Rcv(AR)
1) Pentafluorobenzene	10.83	168	949584	50.00 ug/l	0.02 112.68%
28) 1,4-Difluorobenzene	13.10	114	1867705	50.00 ug/l	0.02 124.51%
40) Chlorobenzene-D5	20.42	117	1548862	50.00 ug/l	0.02 118.38%
60) 1,4-Dichlorobenzene-D4	26.58	152	723334	50.00 ug/l	0.02 116.18%

System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-D4	12.23	65	438021	26.94 ug/l	107.76%
29) Toluene-D8	16.67	98	1015453	24.20 ug/l	96.78%
41) 1,4-Bromofluorobenzene	23.56	95	435178	24.90 ug/l	99.59%

Target Compounds					Qvalue
8) Ethyl Ether	5.95	45	21001	1.52 ug/l #	8
10) 2-Propanone (acetone)	6.18	43	57112	11.31 ug/l	95
12) 1,1-Dichloroethylene	6.33	96	234638	18.15 ug/l	97
13) Carbon Disulfide	7.37	76	18019	0.34 ug/l	100
21) 2-Butanone (MEK)	9.95	43	14101	1.93 ug/l #	61
27) 1,1,1-Trichloroethane	11.52	97	211381	12.62 ug/l	98
32) Benzene	12.47	78	938624	16.43 ug/l	100
35) Toluene	16.86	91	941087	17.66 ug/l	97
39) Chlorobenzene	20.52	77	388423	18.14 ug/l	84
43) Trichloroethylene	13.85	95	323281	28.65 ug/l	94
48) 4-Methyl-2-Pentanone(MIBK)	15.29	43	38475	2.49 ug/l #	100
50) Tetrachloroethylene	18.45	166	145456	14.18 ug/l	97
52) 2-Hexanone	17.68	43	33652	3.66 ug/l #	1
54) Ethylbenzene	20.64	91	16128	0.30 ug/l #	46
55) META/PARA XYLENE	20.84	106	16174	0.80 ug/l	100
63) 1,2,3-Trichloropropane	23.56	75	207481	17.14 ug/l #	1
69) 1,2,4-Trimethylbenzene	25.37	105	14803	0.35 ug/l #	27
79) Naphthalene	32.17	128	18225	0.50 ug/l	100

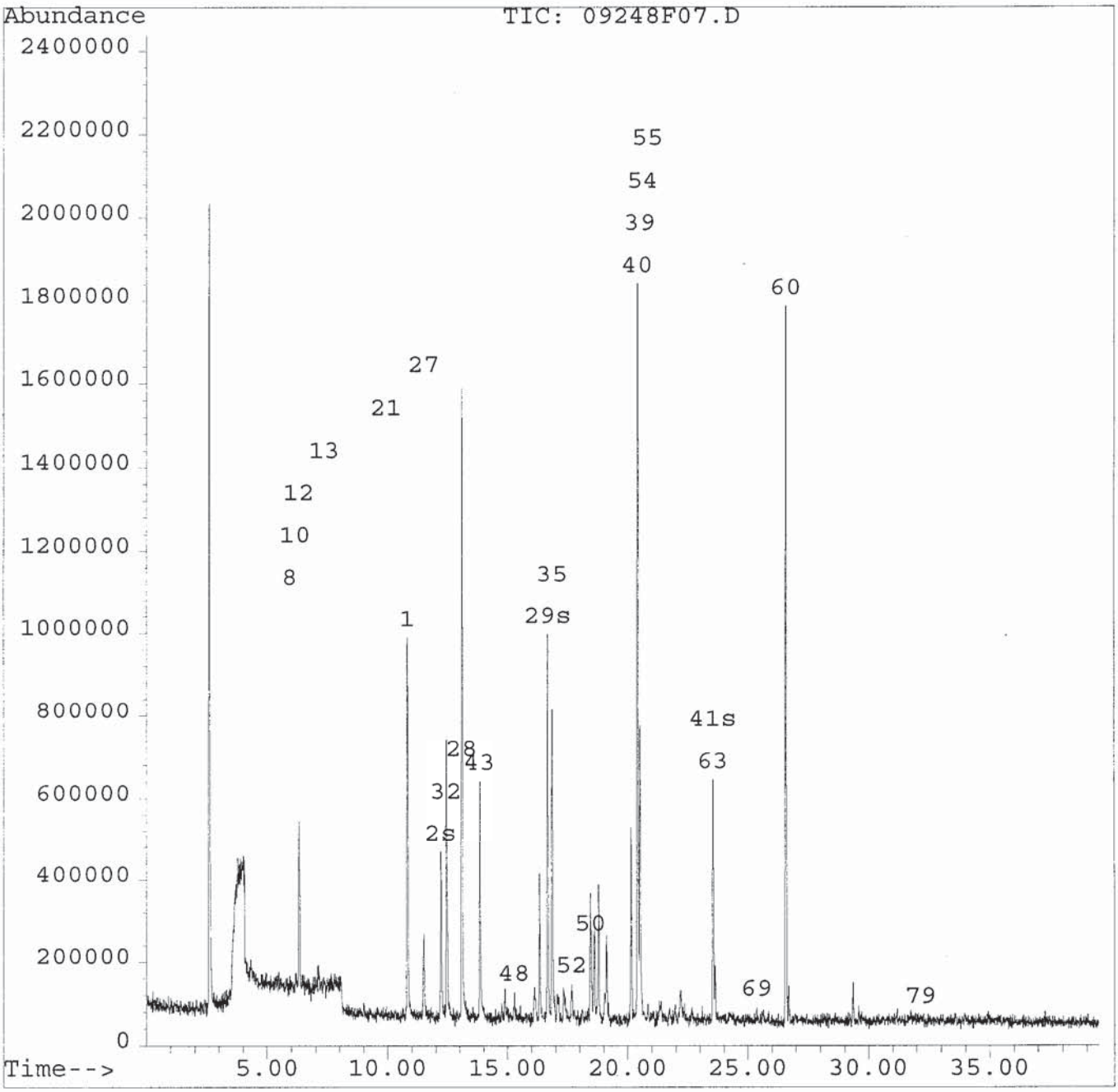
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\ELINK\INSTR1\DATA\SEP24\09248F07.D
Acq On : 24 Sep 98 16:07
Sample : MW-285-23-25 MSD 50X
Misc : NWIRP
Quant Time: Sep 25 9:10 1998

Vial: 4
Operator:
Inst : Finnigan
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\090298HW.M
Title :
Last Update : Thu Sep 24 12:05:33 1998
Response via : Multiple Level Calibration



MATRIX SPIKE QUANTITATION FORM

Sample # MW285-23-25

COMPOUND	MS REC. % 09248F06	MSD REC. % 09248F07	RPD	AVG.
1,1-Dichloroethylene	82	91	10	86
Chloroform				
1,2-Dichloroethane				
1,1,1-Trichloroethane				
Carbon Tetrachloride				
Bromodichloromethane				
Trichloroethylene	91 ~~83~~ h	97 ~~82~~ n	6	94
Benzene	83	82	1	82
Dibromochloromethane				
Bromoform				
1,4-Dichlorobenzene				
Vinyl Chloride				
Toluene	94	88	6	91
Chlorobenzene	104	91	13	98

File ID	Sample ID	PBB	1,4 BFB	CH_2Cl_2	1,4 BFB	% 1,2 DCA	% Tol-d8	% 1,4 BFB	Comments
09038F02	5 PPb	842761	1500005	1308392	622621	102	100	102	
03	10 PPb	848497	1546116	1416680	638755	105	102	107	
04	20 PPb	856679	1549498	1398127	625268	109	101	98	
05	50 PPb	845228	1532345	1415141	605965	99	102	100	
06	100 PPb	817978	1481894	1342753	570586	98	100	107	
09038F03	LABB Blank								DFB
03	50 PPb	988647	1636201	1488368	675799	107	95	97	
04	LAB Blank	975598	1745108	1534813	692712	103	93	97	HW - Water
05	Trip Blank	943937	1748584	1666960	729422	108	101	92	
06	KUDP-1 50X	918003	1760391	1615916	626112	103	92	89	
07	KUDP-2	990886	1744149	1560313	652128	104	97	91	
08	KUDP-3	954987	1685265	1573135	652260	105	94	89	
09	KUDP-4 5X	988150	1826388	1597750	677107	106	89	89	
10	KUDP-5 25X	913488	1648777	1516705	659062	109	94	91	
11	KUDP-6	969323	1739537	1599006	7984	104	95	92	
12	KUDP-7	959190	1777834	1592526	1663063	107	94	87	
13	KUDP-8 25X	1003705	1732865	1582290	658088	98	95	88	
14	KUDP-9	996408	1835879	1629369	692620	106	95	85	
15	KUDP-10 50X	999403	1874564	1581273	666331	101	90	96	
16	KUDP-1 WS	930053	1758045	1546665	672136	98	92	92	
17	KUDP-1 MSD	957901	1797497	1697534	685833	103	93	85	
18	50PPb	924034	1667148	1547738	669016	103	101	96	
09078F01	LB								BFB
02	50PPb	862938	1666676	1606645	696671	107	97	98	
03	LB	964366	1801927	1554755	645873	105	94	89	
04	MB 50X	888277	1751150	1589045	712559	111	96	96	Soil HW
05	068885	1027254	1893562	1687531	698069	104	94	88	
06	08740 50X	895541	1768096	1610415	713935	110	45	91	
07	08740 50X	877110	1910559	[illegible]	[illegible]				

05	[illegible]	010722	1605116	1578810	730753	95	105	94	
06	25X 07597	850785	1865438	1650096	730343	119	92	96	
07	25X 07600	836601	1697931	1609999	710827	105	104	100	
08	25X 07599	795131	1767555	1671600	735608	109	94	93	
09	25X 07597MS	805466	1811203	1608187	713308	105	94	89	
10	25X 07597 MSD	858035	1682337	1548303	687739	103	103	97	
11	25X 07597 PF	821938	1817097	1607218	726153	101	99	96	
12	25X 07600 PF	845916	1756708	1622791	671612	102	101	97	
13	50PPB'	948975	1919511	1588439	684594	113	97	97	
0924BF01	LABBlank								BFB
02	50PPB	984463	1834378	1630511	684297	101	99	98	
03	LABBlank	1104935	1789983	1737224	733185	103	97	97	
04	methBlank 50X	979084	1948676	1786301	708805	106	94	99	
05	MW-285 23-25 50X	93852	1745887	1593149	717201	101	99	95	there Are Recovery one Rev
06	MW-285 23-25 50X MS	902240	1746287	1562459	704089	101	96	94	
07	MW-285 23-25 50X MSD	949584	1867705	1548868	723384	108	97	100	C
08	50ppb	842455	1607137	1398748	647065	109	108	104	