N60478.AR.001672
NWS EARLE
5090.3a

UNDERGROUND STORAGE TANK SITE INVESTIGATION REPORT VOLUME 2 NWS OF 2
EARLE NJ
11/10/1996
ENVIRO-TECH, INC.

SITE INVESTIGATION REPORT

for

UNITED STATES NAVAL WEAPONS STATION - EARLE
Colts Neck, Monmouth County, New Jersey

Volume II

Prepared for:

Tom Dunn
ROICC
NWS Earle
Colts Neck, New Jersey 07722-5025

Prepared by:

Enviro-Tech, Inc.
364 Broad Street
Keyport, New Jersey 07735

November 10, 1995

No. 3

UST R6/R7-1

veritech
Division of Hampton-Clarke, Inc.
environmental and analytical services

ENVIRO-TECH, INC.
NJDEP REDUCED PKG

PROJECT: EARLE NAVAL WEAPONS

LAB # AA30512-AA30516

NJDEP Cert. #14622, CT Cert. # PH0671
PADER Cert. #68-463, MA Cert. #NJ386
NYDOH Cert. # 11408

47 Carey Avenue • Butler, NJ 07405
Phone: (201) 492-8744 Fax: (201) 492-1815

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SAMPLE KEY

ENVIRO-TECH NO.	VERITECH NO.
PE-9	AA30512
PE-10	AA30513
PE-11	AA30514
PE-12	AA30515
FIELD BLANK	AA30516

Enviro-Tech Inc.

Page ___ of ___

CHAIN-OF-CUSTODY RECORD

SAMPLER (Signature) [illegible] Date Shipped _____ Carrier GDM

Phone 908-888-1300 Airbill No. _____ Cooler No. _____

SHIP TO:

ATTENTION: _____

SEND RESULTS TO:

Client Name _____

Company ENVIRO-TECH, INC.

Address 364 BROAD ST.
KEYPORT, NEW JERSEY

Phone 908-888-1300

PROJECT NAME EARLE NAVAL WEAPONS **PROJECT NO.** _____ **P.O. NO.** _____

Relinquished by: (Signature)	Received by: (Signature)	Date	Military Time
Doreen A Haughton	Gerard D. Mizio	5/12/95	0930
Relinquished by: (Signature)	Received by: (Signature)	Date	Military Time
Gerard D. Mizio	A. Shami	5/12/95	1145
Relinquished by: (Signature)	Received at lab by: (Signature)	Date	Military Time
Relinquished from lab by: (Signature)	Received by: (Signature)	Date	Military Time

ANALYSIS REQUEST

	Sample ID Number	Sample Description	Date/Time Sampled		Analysis Requested	Sample Condition Upon Receipt	
1	PE-9	Soil	5/11/95	11:35	VOTIO, TOTAL XYLENE	Cool	AA3051
1	PE-10	↓		11:45	↓	↓	3051
1	PE-11			11:49			3051
1	PE-12			11:57			3051
2	FIELD BLANK	AQUEOUS		11:30			3051
	* FIELD BLANK PRESERVED w/ HCL						

Special Instructions/Comments:

cooler temp 4 C

NOTE: UNUSED PORTIONS OF NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Expected Analytical T.A.T.'s: ___ Immediate Attention (200% surcharge) ___ RUSH (50-100% surcharge) X Standard

000002

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Division of Hampton-Clarke, Inc.
environmental and analytical services

CONDITION UPON RECEIPT FORM

Date Received May 12, 1995 Filed By Gerard DiMizio

Client Enviro-Tech, Inc. - Project - Earle Lab Sample No(s) _____

CONDITION (Check Applicable Items)

_____ (1) Not enough sample sent for analysis

_____ (2) Sample(s) received broken (Specify) _____
Sample(s) received leaking (Specify) _____

_____ (3) Illegible sample number(s) or label(s) missing from bottle(s) (Specify) _____

_____ (4) Numbers on sample(s) do not correspond to information on the chain of custody record

_____ (5) No chain of custody record submitted with the samples

_____ (6) Samples received without a cooler

_____ (7) Custody seals missing or broken (circle one)

_____ (8) Holding time(s) exceeded upon receipt (List parameters _____)

_____ (9) Samples received without proper refrigeration when deemed necessary

_____ (10) Samples received without proper preservation (see Preservation Form for actual pH readings)

✓ (11) Cooler Temperature Upon Receipt (Specify) 4C

_____ (12) Other (Specify) _____

47 Carey Avenue • Butler, NJ 07405
Phone: (201) 492-8744 Fax: (201) [illegible]

VERITECH INTERNAL CHAIN OF CUSTODY RECORD
REFRIGERATOR # 2

PARAM-ETER	RFRG FROM	RFRG TO	SAMPLE NUMBER(S)	DATE OUT	TIME OUT	DATE IN*	TIME IN	SIGNATURE
GC/MS	2	2	30457 ~ 30461	5/11/95	2:31	5/11	2:55	
"	2	2	30490 ~ 30494, 30495	"	5:22	"	5:40	
"	2	2	30489	"	5:53	"	6:01	
"	2		30440, 30455, 30393, 30394	"	6:11			
"	2		30445 ~ 30451	"	6:33			
"	2		30393, 30456, 30445, 30444, 30453	5/12	10:38			
"	2		30447, 30450, 30454	"	10:36			
"	2	2	30466, 30484, 30493	"	4:02	5/12	4:21	
"	2	2	30488, 30492, 30499	"	5:00	"	5:11	
"	2	2	30458, 30489	"	5:33	5/12	5:44	
"	2		30382 ~ 30392	5/15	1:58			
"	2		30512 ~ 30515 (*)	"	2:20	5/12	2:30	
[illegible]	2		30474	5/15	3:50			
GC/MS	2		30472 ~ 30481, 30482	"	4:29			
"	2		30516 (*)	"	5:18			
"	2	2	30512 ~ 30514	5/15	6:11	5/15	6:25	
GC/MS	2		30475, 30479, 30481, 30518	5/16	10:47			
"	2		30483, 30485, 30486 (Tilp ext liquid)	"	3:17	5/16	3:30	
"	2	2	30477 (Back up vial)	5/16	4:49	"	4:55	
"	2		30567, 30568	"	5:39			
"	2		30483, 30485, 30486	"	5:40			
"	2	2	30513 (*)	"	6:04	5/16	6:15	
GC/MS	2		30545 ~ 30547	5/17	10:45			
"	2		30550 ~ 30553	"	11:41			
"	2		30555 ~ 30558	"	6:11			
"	2		30557 ~ 30558	5/18	10:43			
"	2		30579 ~ 30581	"	3:00			
"	2	2	30598 ~ 30602, 30604	5/19	4:33	5/19	4:50	
"	2		30603	"	4:51			
[illegible]	GC/MS	[illegible]	30500 → 30602, 606	5/22	9:50	5/22	9:55	
GC/MS	2	2	30607	5/22	4:21	5/22	4:42	
"	2	2	30607	"	5:08	"	5:12	
"	2	2	30604, 30605, 30606	"	6:09	"	6:17	
"	2	2	30496	5/23	3:41	5/23	3:47	
"	2	2	30645 ~ 30648	"	4:11	"	4:36	
"	2	2	30654	"	5:55			
"	2	2	30648	"	6:12	5/23	6:20	
"	2	2	30695 → [illegible]	5/24	4:20	5/24	9:30	
GC/MS	2	2	30647 (Meth ext)	"	5:58	"	4:02	
"	2	2	30621	"	5:38	"	5:31	
"	2		30655 ~ 657	"	5:58			
"	2	2	30621	"	6:10	5/24	6:15	
"	2		~~30616, 673, 675 ~ 677, 679 ~ 683~~	"	6:39			
"	2		30581 ~ 586, 588 ~ 591, 593 ~ 596	"	6:40			
"	2		30585, 30595, 30655	5/25	11:19			
"	2		30656 (from table)	5/26	12:44			
"	2		30700	"	12:51			
"	2		30670 ~ 30673, 30676 ~ 30678, 30675	"	12:58			
"	2	2	30689, 30653, 30686	"	4:15	5/26	4:31	
"	2		30681 ~ 683, 30680	"	6:05			
"	2	2	30597, 30676, 30689	"	6:22	5/26	6:33	

COMMENTS: *-Aqueous volatile samples are not logged back into the refrigerator

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 06-05-1995 Time: 18:10:07

Sample I.D. AA30512
Status: Complete and inactive
Priority:
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 05/11/95
Date submitted: 05/12/95
Due date: 05/25/95
Specification checking: off
Descript: PE-9 SOIL

COL.DATE: 5/11/95

Analysis	Result	Unit	Finished	An
%SOLIDS	81	PERCENT	05/15/95	JK
VOLATILES + 10	Completed	ATTACHED	05/15/95	YS

End of progress report on sample: AA30512

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 06-05-1995 Time: 18:10:08

Sample I.D. AA30513
Status: Complete and inactive
Priority:
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 05/11/95
Date submitted: 05/12/95
Due date: 05/25/95
Specification checking: off
Descript: PE-10 SOIL

COL.DATE: 5/11/95

Analysis	Result	Unit	Finished	Anl
%SOLIDS	80	PERCENT	05/15/95	JK
VOLATILES + 10	Completed	ATTACHED	05/16/95	YS

End of progress report on sample: AA30513

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 06-05-1995 Time: 18:10:09

Sample I.D. AA30514
Status: Complete and inactive
Priority:
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 05/11/95
Date submitted: 05/12/95
Due date: 05/25/95
Specification checking: off
Descript: PE-11 SOIL

COL.DATE: 5/11/95

Analysis	Result	Unit	Finished	Anl
%SOLIDS	83	PERCENT	05/15/95	JK
VOLATILES + 10	Completed	ATTACHED	05/15/95	YS

End of progress report on sample: AA30514

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 06-05-1995 Time: 18:10:10

Sample I.D. AA30515
Status: Complete and inactive
Priority:
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 05/11/95
Date submitted: 05/12/95
Due date: 05/25/95
Specification checking: off
Descript: PE-12 SOIL

COL.DATE: 5/11/95

Analysis	Result	Unit	Finished	An
%SOLIDS	91	PERCENT	05/15/95	JK
VOLATILES + 10	Completed	ATTACHED	05/15/95	YS

End of progress report on sample: AA30515

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 06-05-1995 Time: 18:10:11

Sample I.D. AA30516
Status: Complete and inactive
Priority:
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 05/11/95
Date submitted: 05/12/95
Due date: 05/25/95
Specification checking: off
Descript: FIELD BLANK

COL.DATE: 5/11/95

Analysis	Result	Unit	Finished	An
VOLATILES + 10	Completed	ATTACHED	05/15/95	YS
pH (VOA VIALS)	<2	UNITS	05/17/95	AS

End of progress report on sample: AA30516

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

CLIENT: ENVIRO PROJECT: EARLE
ANALYSIS: VOLATILES

	NO	YES
. GC/MS Tune Specifications		
a. BFB passed	___	_X_
b. DFTPP passed	___	___
. GC/MS Tuning Frequency - performed every 12 hours	___	_X_
. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hours before sample analysis.	___	_X_
. GC/MS Calibration Requirements		
a. Calibration Check Compounds	___	_X_
b. System Performance Check Compounds	___	_X_
. Blank Contamination - List compounds for each fraction		
a. VOA Fraction See Form1.		
b. B/N Fraction		
c. Acid Fraction		
. Surrogate Recoveries Meet Criteria (If not met; list those compounds and their recoveries which fall outside the acceptable range)	___	_X_
a. VOA Fraction		
b. B/N Fraction		
c. Acid Fraction		
. Extraction Holding Time Met	___	_X_

Comments: _____

. Analysis Holding Time Met ___ _X_

Comments: _____

Additional Comments: _____

Organics Director _____ Date: 06/02/95___

METHOD REFERENCES

Volatile Organics (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Method 8240.

Volatile Organics (Waters) - Federal Register, 40 CFR Part 136, October 26, 1984, Method 624.

TCLP Volatile Organics - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 1311 and 8240.

Volatile Organics (Drinking Waters) - Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Revision 3, 1989, Method 524.2.

Semivolatile Organics (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 3550 and 8270.

Semivolatile Organics (Waters) - Federal Register, 40 CFR Part 136, October 26, 1984, Method 625.

TCLP Semivolatile Organics - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 1311, 3510 and 8270.

Pesticides (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 3550 and 8080.

Pesticides (Waters) - Federal Register, 40 CFR Part 136, October 26, 1984, Method 608.

TCLP Pesticides - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 1311, 3510 and 8080.

TCLP Herbicides (Waters) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 1311 and 8150.

PCB's (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 3550 and 8080.

PCB's (Waters) - Federal Register, 40 CFR, Part 136, October 26, 1984, Method 608.

PCB's (Oils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Methods 3580 and 8080.

Total Metals (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition. Methods 3020 or 3050 are used for digestion. All ICP metals are analyzed using Method 6010. Antimony, arsenic, cadmium, molybdenum, selenium and thallium are analyzed by Methods 7041, 7060, 7131, 7481, 7740 and 7841 respectively. Mercury is analyzed using the Inorganic Statement of Work, Contract Laboratory Program, Revision 2.1.

TCLP Metals - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Method 1311 followed by Method 3020 for digestion and the individual parameter methods listed above in the Total Metals (Soils) section.

ICP Metals (Waters) - Methods for the Determination of Metals in Environmental Samples, EPA/600/4-91/010, June 1991, Revision 3.3, Method 200.7.

GFAA Metals & Mercury (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983. Antimony, arsenic, cadmium, lead, molybdenum, selenium, thallium and tin are analyzed using Methods 204.2, 206.2, 213.2, 239.2, 246.2, 270.2, 279.2 and 282.2 respectively. Mercury is analyzed using the Inorganic Statement of Work, Contract Laboratory Program, Revision 2.1.

Cyanide (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Method 9010.

Cyanide (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 335.2.

Phenols (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Method 9065.

Phenols (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 420.1.

TPH (Soils & Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 418.1 for waters and modified 418.1 for soils using a soxhlet extraction with freon prior to analysis.

Hexavalent Chromium (Soils & Waters) - Test Methods for Evaluating Solid Waste, SW-846, Second and Third Editions, Methods 3060 and 7196A.

pH (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Method 9040.

pH (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 150.1.

Reactive Cyanide - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Chapter Seven, Section 7.3, Reactivity.

Reactive Sulfide - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Chapter Seven, Section 7.3, Reactivity.

Ignitability - Test Methods for Evaluating Solid Waste, SW-848, Third Edition, Chapter Seven, Section 7.1, Ignitability.

Flashpoint - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Method 1010.

Conductance (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 120.1.

Residue, Filterable (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 160.1.

Residue, Non-Filterable (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 160.2.

Residue, Total (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 160.3.

Chloride (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 325.3.

Chloride (Soils) - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Method 9252.

Sulfide (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 376.1.

Chemical Oxygen Demand (Waters) - Hach Chemical Company, Method 8000.

Oil & Grease (Waters) - Methods for the Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983, Method 413.1.

TOX (Waters & Soils) - American Society for Testing & Materials (ASTM), D2362-91, June 1991.

TPH-Extractables - Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Modified Method 8015.

2,3,7,8 - TCDD/TCDF - Modified Contract Laboratory Program Statement of Work, November 1992.

VERITECH

47 CAREY AVE., BUTLER, NJ 07405

CT. NO: PH-0671
MADEP NO: NJ386
PADER NO: 68-463
NJDEPE NO: 14622
NYDOH NO: 11408

REPORT OF ANALYSIS

TO: ENVIRO-TECH, INC.
364 BROAD STREET
KEYPORT, N.J. 07735
(908) 888-1300

Date Collected: 05/11/95
Date Submitted: 05/12/95
Date Reported: 06/05/95
Project: EARLE

Sample I.D.		AA30512		AA30513	
Sample Description		PE-9 SOIL		PE-10 SOIL	
Analyte	**Units**	**MDL**	**Result**	**MDL**	**Result**
%SOLIDS	PERCENT	1.0	81	1.0	80
VOLATILES + 10	ATTACHED		Completed		Completed

Sample I.D.		AA30514		AA30515	
Sample Description		PE-11 SOIL		PE-12 SOIL	
Analyte	**Units**	**MDL**	**Result**	**MDL**	**Result**
%SOLIDS	PERCENT	1.0	83	1.0	91
VOLATILES + 10	ATTACHED		Completed		Completed

Sample I.D.		AA30516	
Sample Description		FIELD BLANK	
Analyte	**Units**	**MDL**	**Result**
%SOLIDS			
VOLATILES + 10	ATTACHED		Completed

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Stanley Gilewicz - Laboratory Director

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID :
Date Rcvd/Extd:
Sample Matrix : Soil
Percent Solid : 100
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : DAILY BL
Lab File ID : >E4623
Date Analyzed : 05/15/95
Dilution Factor: 125
Sample Wt/Vol : 5.0ml

CONCENTRATION UNITS: UG/KG(PPB)

AS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	1300	U	124481	Dibromochloromethane	630	U
4839	Bromomethane	1300	U	79005	1,1,2-Trichloroethane	380	U
5014	Vinyl Chloride	630	U	71432	Benzene	130	U
5003	Chloroethane	1300	U	10061026	Trans-1,3-Dichloropropene	630	U
5092	Methylene Chloride	1300	530J	110758	2-Chloroethylvinylether	1300	U
7641	Acetone	2500	U	75252	Bromoform	500	U
5150	Carbon Disulfide	630	U	108101	4-Methyl-2-Pentanone	3100	U
5694	Trichlorofluoromethane	630	U	591786	2-Hexanone	2500	U
5354	1,1-Dichloroethene	250	U	127184	Tetrachloroethene	130	U
5343	1,1-Dichloroethane	630	U	79345	1,1,2,2-Tetrachloroethane	250	U
56605	Trans-1,2-Dichloroethene	630	U	108883	Toluene	630	U
7663	Chloroform	630	U	108907	Chlorobenzene	500	U
07062	1,2-Dichloroethane	250	U	100414	Ethylbenzene	630	U
8933	2-Butanone	3100	U	100425	Styrene	630	U
1556	1,1,1-Trichloroethane	630	U	108383	m&p-Xylenes	630	U
6235	Carbon Tetrachloride	250	U	95476	o-Xylene	630	U
08054	Vinyl Acetate	1300	U	541731	1,3-Dichlorobenzene	630	U
5274	Bromodichloromethane	130	U	95501	1,2-Dichlorobenzene	630	U
9875	1,2-Dichloropropane	130	U	106467	1,4-Dichlorobenzene	630	U
0061015	cis-1,3-Dichloropropene	630	U	1634044	Methyl-t-butyl ether	630	U
9016	Trichloroethene	130	U	108203	Di-isopropyl-ether	630	U
				75650	t-Butyl Alcohol	13000	U

TARGET COMPOUND SUMMARY: 0

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.

DAILY BLK(M

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: SOIL Client ID:

Sample wt/vol: 5.0 (g/ml) ml Lab File ID: >E4623

Level: (low/med) MED Date Recvd/Ext:

% Solid: 100 Date Analyzed: 05/15/95

Column: CAP Dilution Factor: 125

Number of TICs found: 0 CONCENTRATION UNITS: ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Tentative Compound Summary: 0

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Quant Rev: 7
Quant Time: 950515 14:51
Output File: ^E4623::QT
Injected at: 950515 14:26
Data File: >E4623::D1
Dilution Factor: 1.00000
Name: DAILY BLK(MEOH)
Instrument ID: MSD_1
Misc: M

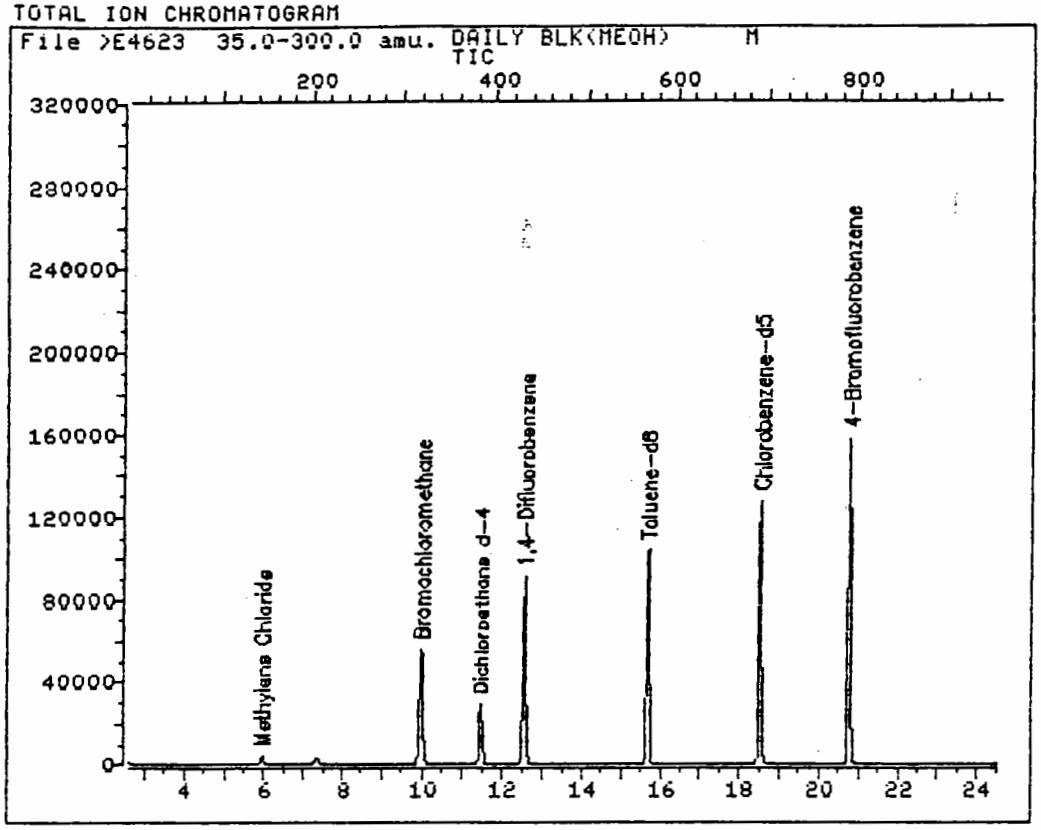
ID File: IDWVO1::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950515 13:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.97	321	48058	50.00	ug/L	98
9)	Methylene Chloride	5.95	146	4822	4.23	ug/L	98
19)	1,2-Dichloroethane-d4	11.44	385	13280	46.81	ug/L	95
28)	*1,4-Difluorobenzene	12.54	433	202489	50.00	ug/L	98
39)	*Chlorobenzene-d5	18.52	693	172243	50.00	ug/L	95
46)	Toluene d-8	15.67	569	185581	50.15	ug/L	97
53)	Bromofluorobenzene	20.77	791	138763	49.27	ug/L	97

* Compound is ISTD

6/02/95

TOTAL ION CHROMATOGRAM



Data File: >E4623::D1 Quant Output File: ^E4623::QT
Name: DAILY BLK(MEOH) Instrument ID: MSD_1
Misc: M

Id File: IDWV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950515 13:21

Operator ID: LIN
Quant Time : 950515 14:51
Injected at: 950515 14:26

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID :
Date Rcvd/Extd:
Sample Matrix : Soil
Percent Solid : 100
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : DAILY BL
Lab File ID : >E4624
Date Analyzed : 05/15/95
Dilution Factor: 1
Sample Wt/Vol : 5.0g

CONCENTRATION UNITS: UG/KG(PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	10	U	124481	Dibromochloromethane	5	U
4839	Bromomethane	10	U	79005	1,1,2-Trichloroethane	3	U
5014	Vinyl Chloride	5	U	71432	Benzene	1	U
5003	Chloroethane	10	U	10061026	Trans-1,3-Dichloropropene	5	U
5092	Methylene Chloride	10	4J	110758	2-Chloroethylvinylether	10	U
7641	Acetone	20	U	75252	Bromoform	4	U
5150	Carbon Disulfide	5	U	108101	4-Methyl-2-Pentanone	25	U
5694	Trichlorofluoromethane	5	U	591786	2-Hexanone	20	U
5354	1,1-Dichloroethene	2	U	127184	Tetrachloroethene	1	U
5343	1,1-Dichloroethane	5	U	79345	1,1,2,2-Tetrachloroethane	2	U
56605	Trans-1,2-Dichloroethene	5	U	108883	Toluene	5	U
7663	Chloroform	5	U	108907	Chlorobenzene	4	U
07062	1,2-Dichloroethane	2	U	100414	Ethylbenzene	5	U
2933	2-Butanone	25	U	100425	Styrene	5	U
1556	1,1,1-Trichloroethane	5	U	108383	m&p-Xylenes	5	U
5235	Carbon Tetrachloride	2	U	95476	o-Xylene	5	U
08054	Vinyl Acetate	10	U	541731	1,3-Dichlorobenzene	5	U
5274	Bromodichloromethane	1	U	95501	1,2-Dichlorobenzene	5	U
8875	1,2-Dichloropropane	1	U	106467	1,4-Dichlorobenzene	5	U
061015	cis-1,3-Dichloropropene	5	U	1634044	Methyl-t-butyl ether	5	U
016	Trichloroethene	1	U	108203	Di-isopropyl-ether	5	U
				75650	t-Butyl Alcohol	100	U

TARGET COMPOUND SUMMARY: 0

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.

DAILY BLK(S)

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: SOIL Client ID:

Sample wt/vol: 5.0(g/ml) g Lab File ID: >E4624

Level: (low/med) LOW Date Recvd/Ext:

% Solid: 100 Date Analyzed: 05/15/95

Column: CAP Dilution Factor: 1

Number of TICs found: 0 CONCENTRATION UNITS: ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Tentative Compound Summary: 0

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Output File: ^E4624::QT
Data File: >E4624::D1
Name: DAILY BLK(S)
Misc: S

Quant Rev: 7
Quant Time: 950515 15:20
Injected at: 950515 14:55
Dilution Factor: 1.00000
Instrument ID: MSD_1

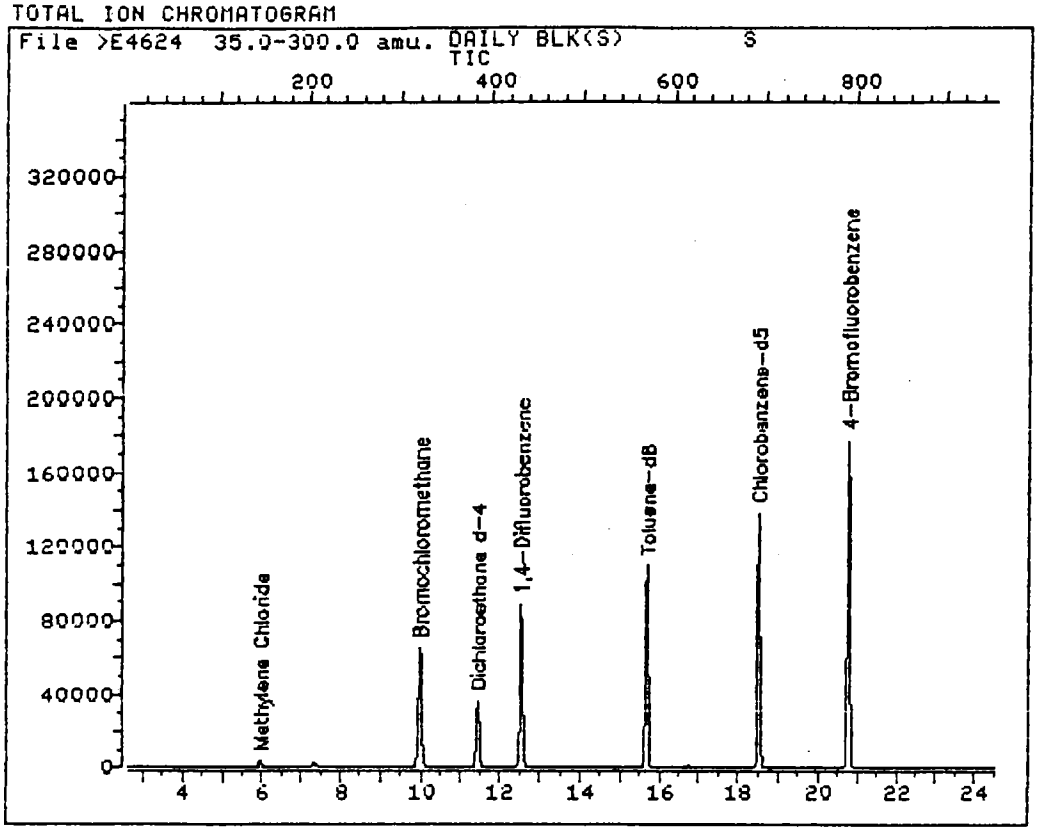
ID File: IDSV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950515 13:51

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.97	321	54210	50.00	ug/L	94
9)	Methylene Chloride	5.97	147	4226	3.61	ug/L	90
19)	1,2-Dichloroethane-d4	11.44	385	15940	48.07	ug/L	97
28)	*1,4-Difluorobenzene	12.54	433	194467	50.00	ug/L	98
39)	*Chlorobenzene-d5	18.51	693	178975	50.00	ug/L	95
46)	Toluene d-8	15.69	570	184272	49.08	ug/L	97
53)	Bromofluorobenzene	20.76	791	153056	49.84	ug/L	90

* Compound is ISTD

5/6/02/95

TOTAL ION CHROMATOGRAM



Data File: >E4624::D1 Quant Output File: ^E4624::QT
Name: DAILY BLK(S) Instrument ID: MSD_1
Misc: S

Id File: IDSV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950515 13:51

Operator ID: LIN
Quant Time : 950515 15:20
Injected at: 950515 14:55

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID :
Date Rcvd/Extd:
Sample Matrix : Water
Percent Solid : 0
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : DAILY BL
Lab File ID : >E4629
Date Analyzed : 05/15/95
Dilution Factor: 1
Sample Wt/Vol : 5.0ml

CONCENTRATION UNITS: UG/L (PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	10	U	124481	Dibromochloromethane	5	U
4839	Bromomethane	10	U	79005	1,1,2-Trichloroethane	3	U
5014	Vinyl Chloride	5	U	71432	Benzene	1	U
5003	Chloroethane	10	U	10061026	Trans-1,3-Dichloropropene	5	U
5092	Methylene Chloride	10	1J	110758	2-Chloroethylvinylether	10	U
7641	Acetone	20	U	75252	Bromoform	4	U
5150	Carbon Disulfide	5	U	108101	4-Methyl-2-Pentanone	25	U
5694	Trichlorofluoromethane	5	U	591786	2-Hexanone	20	U
5354	1,1-Dichloroethene	2	U	127184	Tetrachloroethene	1	U
5343	1,1-Dichloroethane	5	U	79345	1,1,2,2-Tetrachloroethane	2	U
56605	Trans-1,2-Dichloroethene	5	U	108883	Toluene	5	U
7663	Chloroform	5	U	108907	Chlorobenzene	4	U
07062	1,2-Dichloroethane	2	U	100414	Ethylbenzene	5	U
8933	2-Butanone	25	U	100425	Styrene	5	U
1556	1,1,1-Trichloroethane	5	U	108383	m&p-Xylenes	5	U
6235	Carbon Tetrachloride	2	U	95476	o-Xylene	5	U
08054	Vinyl Acetate	10	U	541731	1,3-Dichlorobenzene	5	U
5274	Bromodichloromethane	1	U	95501	1,2-Dichlorobenzene	5	U
9875	1,2-Dichloropropane	1	U	106467	1,4-Dichlorobenzene	5	U
0061015	cis-1,3-Dichloropropene	5	U	1634044	Methyl-t-butyl ether	5	U
9016	Trichloroethene	1	U	108203	Di-isopropyl-ether	5	U
				75650	t-Butyl Alcohol	100	U

TARGET COMPOUND SUMMARY: 0

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.

DAILY BLK(A

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: WATER Client ID:

Sample wt/vol: 5.0 (g/ml) ml Lab File ID: >E4629

Level: (low/med) LOW Date Recvd/Ext:

% Solid: 0 Date Analyzed: 05/15/95

Column: CAP Dilution Factor: 1

Number of TICs found: 0 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Tentative Compound Summary: 0

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Quant Rev: 7
Quant Time: 950515 18:54
Output File: ^E4629::QT
Injected at: 950515 18:28
Data File: >E4629::D1
Dilution Factor: 1.00000
Name: DAILY BLK(A)
Instrument ID: MSD_1
Misc: A

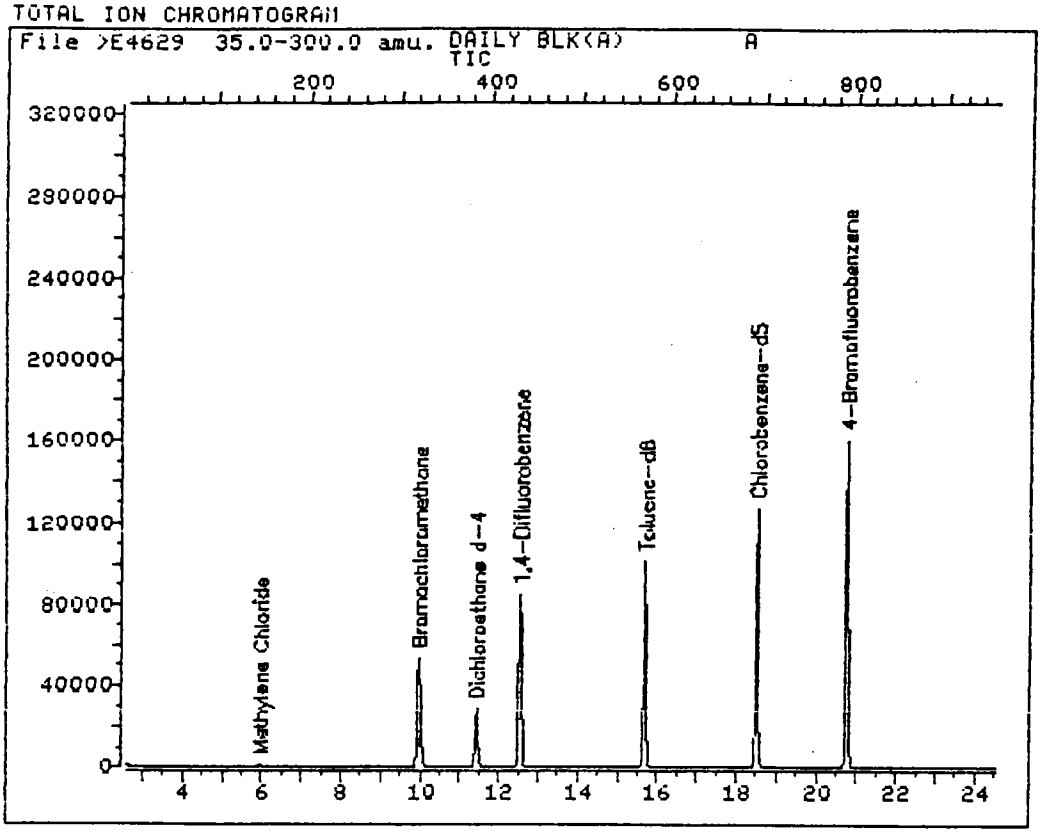
ID File: IDWV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950515 13:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.97	321	46162	50.00	ug/L	97
9)	Methylene Chloride	5.97	147	1233	1.13	ug/L	84
19)	1,2-Dichloroethane-d4	11.44	385	13791	50.61	ug/L	95
28)	*1,4-Difluorobenzene	12.54	433	187513	50.00	ug/L	97
39)	*Chlorobenzene-d5	18.51	693	168598	50.00	ug/L	95
46)	Toluene d-8	15.69	570	177045	48.88	ug/L	97
53)	Bromofluorobenzene	20.76	791	137646	49.93	ug/L	95

* Compound is ISTD

5/16/95

TOTAL ION CHROMATOGRAM



Data File: >E4629::D1 Quant Output File: ^E4629::QT
Name: DAILY BLK(A) Instrument ID: MSD_1
Misc: A

Id File: IDWV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950515 13:21

Operator ID: LIN
Quant Time : 950515 18:54
Injected at: 950515 18:28

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID :
Date Rcvd/Extd:
Sample Matrix : Soil
Percent Solid : 100
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : DAILY BL
Lab File ID : >E4641
Date Analyzed : 05/16/95
Dilution Factor: 1
Sample Wt/Vol : 5.0g

CONCENTRATION UNITS: UG/KG(PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	10	U	124481	Dibromochloromethane	5	U
4839	Bromomethane	10	U	79005	1,1,2-Trichloroethane	3	U
5014	Vinyl Chloride	5	U	71432	Benzene	1	U
5003	Chloroethane	10	U	10061026	Trans-1,3-Dichloropropene	5	U
5092	Methylene Chloride	10	3J	110758	2-Chloroethylvinylether	10	U
7641	Acetone	20	U	75252	Bromoform	4	U
5150	Carbon Disulfide	5	U	108101	4-Methyl-2-Pentanone	25	U
5694	Trichlorofluoromethane	5	U	591786	2-Hexanone	20	U
5354	1,1-Dichloroethene	2	U	127184	Tetrachloroethene	1	U
5343	1,1-Dichloroethane	5	U	79345	1,1,2,2-Tetrachloroethane	2	U
56605	Trans-1,2-Dichloroethene	5	U	108883	Toluene	5	U
7663	Chloroform	5	U	108907	Chlorobenzene	4	U
07062	1,2-Dichloroethane	2	U	100414	Ethylbenzene	5	U
9933	2-Butanone	25	U	100425	Styrene	5	U
1556	1,1,1-Trichloroethane	5	U	108383	m&p-Xylenes	5	U
6235	Carbon Tetrachloride	2	U	95476	o-Xylene	5	U
08054	Vinyl Acetate	10	U	541731	1,3-Dichlorobenzene	5	U
5274	Bromodichloromethane	1	U	95501	1,2-Dichlorobenzene	5	U
8875	1,2-Dichloropropane	1	U	106467	1,4-Dichlorobenzene	5	U
0061015	cis-1,3-Dichloropropene	5	U	1634044	Methyl-t-butyl ether	5	U
9016	Trichloroethene	1	U	108203	Di-isopropyl-ether	5	U
				75650	t-Butyl Alcohol	100	U

TARGET COMPOUND SUMMARY: 0

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.

DAILY BLK(S)

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: SOIL Client ID:

Sample wt/vol: 5.0(g/ml) g Lab File ID: >E4641

Level: (low/med) LOW Date Recvd/Ext:

% Solid: 100 Date Analyzed: 05/16/95

Column: CAP Dilution Factor: 1

Number of TICs found: 0 CONCENTRATION UNITS: ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Tentative Compound Summary: 0

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Output File: ^E4641::QT
Data File: >E4641::D1
Name: DAILY BLK(S)
Misc: S

Quant Rev: 7
Quant Time: 950516 17:43
Injected at: 950516 17:17
Dilution Factor: 1.00000
Instrument ID: MSD_1

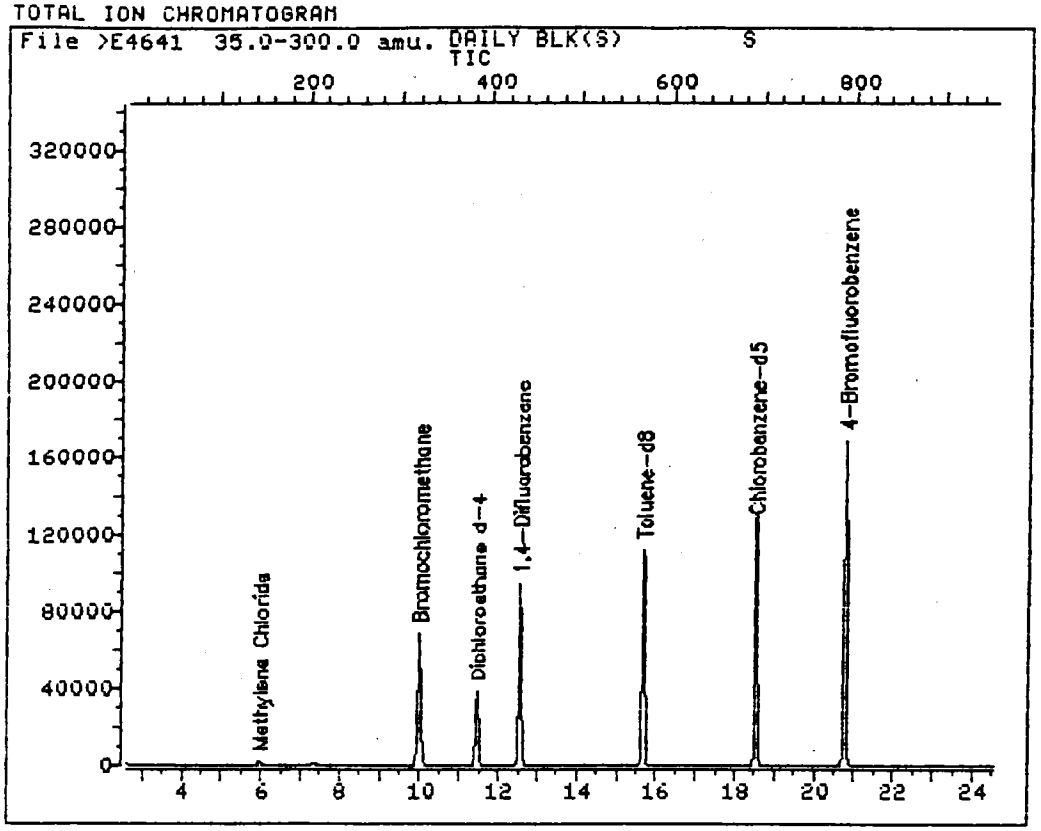
ID File: IDSV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950516 14:14

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.98	321	58663	50.00	ug/L	92
9)	Methylene Chloride	5.98	147	3055	2.58	ug/L	94
19)	1,2-Dichloroethane-d4	11.45	385	17723	49.34	ug/L	96
28)	*1,4-Difluorobenzene	12.55	433	207565	50.00	ug/L	98
39)	*Chlorobenzene-d5	18.50	692	185990	50.00	ug/L	95
46)	Toluene d-8	15.67	569	194022	49.96	ug/L	96
53)	Bromofluorobenzene	20.77	791	153761	49.58	ug/L	99

* Compound is ISTD

7/6/02/95

TOTAL ION CHROMATOGRAM



Data File: >E4641::D1 Quant Output File: ^E4641::QT
Name: DAILY BLK(S) Instrument ID: MSD_1
Misc: S

Id File: IDSV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950516 14:14

Operator ID: LIN
Quant Time : 950516 17:43
Injected at: 950516 17:17

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID : PE-9
Date Rcvd/Extd: 05/12/95-NA
Sample Matrix : Soil
Percent Solid : 81
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : AA30512
Lab File ID : >E4631
Date Analyzed : 05/15/95
Dilution Factor: 125
Sample Wt/Vol : 5.0ml

CONCENTRATION UNITS: UG/KG(PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	1500	U	124481	Dibromochloromethane	770	U
4839	Bromomethane	1500	U	79005	1,1,2-Trichloroethane	460	U
5014	Vinyl Chloride	770	U	71432	Benzene	150	U
5003	Chloroethane	1500	U	10061026	Trans-1,3-Dichloropropene	770	U
5092	Methylene Chloride	1500	350JB	110758	2-Chloroethylvinylether	1500	U
7641	Acetone	3100	U	75252	Bromoform	620	U
5150	Carbon Disulfide	770	U	108101	4-Methyl-2-Pentanone	3900	U
5694	Trichlorofluoromethane	770	U	591786	2-Hexanone	3100	U
5354	1,1-Dichloroethene	310	U	127184	Tetrachloroethene	150	U
5343	1,1-Dichloroethane	770	U	79345	1,1,2,2-Tetrachloroethane	310	U
56605	Trans-1,2-Dichloroethene	770	U	108883	Toluene	770	U
7663	Chloroform	770	U	108907	Chlorobenzene	620	U
07062	1,2-Dichloroethane	310	U	100414	Ethylbenzene	770	U
8933	2-Butanone	3900	U	100425	Styrene	770	U
1556	1,1,1-Trichloroethane	770	U	108383	m&p-Xylenes	770	U
6235	Carbon Tetrachloride	310	U	95476	o-Xylene	770	U
08054	Vinyl Acetate	1500	U	541731	1,3-Dichlorobenzene	770	U
5274	Bromodichloromethane	150	U	95501	1,2-Dichlorobenzene	770	U
8875	1,2-Dichloropropane	150	U	106467	1,4-Dichlorobenzene	770	U
0061015	cis-1,3-Dichloropropene	770	U	1634044	Methyl-t-butyl ether	770	U
9016	Trichloroethene	150	U	108203	Di-isopropyl-ether	770	U
				75650	t-Butyl Alcohol	15000	U

TARGET COMPOUND SUMMARY: 0

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.
AA30512

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: SOIL Client ID: PE-9

Sample wt/vol: 5.0 (g/ml) ml Lab File ID: >E4631

Level: (low/med) MED Date Recvd/Ext: 05/12/95-NA

% Solid: 81 Date Analyzed: 05/15/95

Column: CAP Dilution Factor: 125

Number of TICs found: 10 CONCENTRATION UNITS: ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	109660	Pentane	4.16	4938	J
2	96140	Pentane, 3-methyl-	6.60	6944	J
3	110543	Hexane	7.31	8333	J
4	4806615	Cyclobutane, ethyl-	9.06	8642	J
5	1517153	Cyclobutanone, 2-methyl-	10.80	8796	J
6	589344	Hexane, 3-methyl-	11.26	3395	J
7	108872	Cyclohexane, methyl-	13.51	8642	J
8	4926903	Cyclohexane, 1-ethyl-1-methyl	19.08	3241	J
9	91178	Naphthalene, decahydro-	23.65	3395	J
10	1758889	Benzene, 2-ethyl-1,4-dimethyl	24.34	4167	J

Tentative Compound Summary: 60494

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Output File: ^E4631::QT
Data File: >E4631::D1
Name: AA30512
Misc: M,100ul OF 4g/10ml

Quant Rev: 7
Quant Time: 950515 19:58
Injected at: 950515 19:29
Dilution Factor: 1.00000
Instrument ID: MSD_1

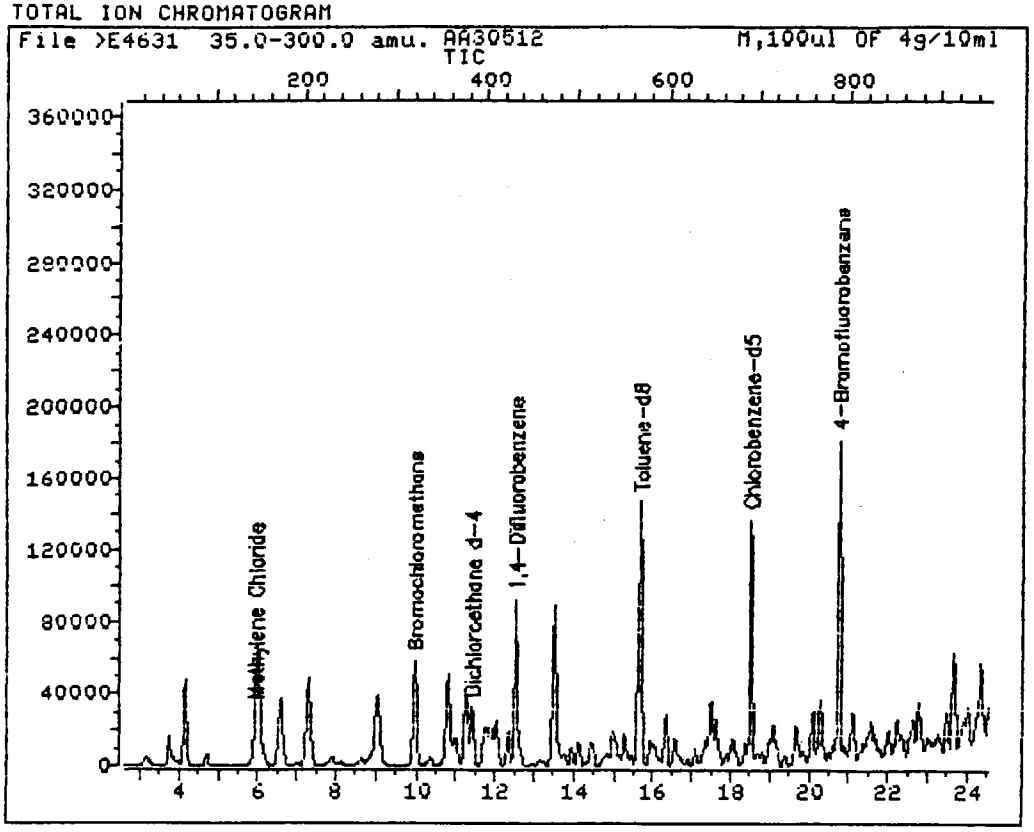
ID File: IDWV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950515 13:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.95	320	49939	50.00	ug/L	99
9)	Methylene Chloride	5.93	145	2674	2.26	ug/L	98
19)	1,2-Dichloroethane-d4	11.42	384	14348	48.67	ug/L	95
28)	*1,4-Difluorobenzene	12.53	432	207377	50.00	ug/L	98
39)	*Chlorobenzene-d5	18.50	692	185560	50.00	ug/L	95
46)	Toluene d-8	15.67	569	200180	50.21	ug/L	97
53)	Bromofluorobenzene	20.75	790	149121	49.15	ug/L	80

* Compound is ISTD

6/02/95

TOTAL ION CHROMATOGRAM



Data File: >E4631::D1 Quant Output File: ^E4631::QT
Name: AA30512 Instrument ID: MSD_1
Misc: M,100ul OF 4g/10ml

Id File: IDWU01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950515 13:21

Operator ID: LIN
Quant Time : 950515 19:58
Injected at: 950515 19:29

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID : PE-10
Date Rcvd/Extd: 05/12/95-NA
Sample Matrix : Soil
Percent Solid : 80
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : AA30513
Lab File ID : >E4645
Date Analyzed : 05/16/95
Dilution Factor: 5
Sample Wt/Vol : 1.0g

CONCENTRATION UNITS: UG/KG(PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	63	U	124481	Dibromochloromethane	31	U
4839	Bromomethane	63	U	79005	1,1,2-Trichloroethane	19	U
5014	Vinyl Chloride	31	U	71432	Benzene	6	540
5003	Chloroethane	63	U	10061026	Trans-1,3-Dichloropropene	31	U
5092	Methylene Chloride	63	30JB	110758	2-Chloroethylvinylether	63	U
7641	Acetone	130	120J	75252	Bromoform	25	U
5150	Carbon Disulfide	31	U	108101	4-Methyl-2-Pentanone	160	U
5694	Trichlorofluoromethane	31	U	591786	2-Hexanone	130	U
5354	1,1-Dichloroethene	13	U	127184	Tetrachloroethene	6	U
5343	1,1-Dichloroethane	31	U	79345	1,1,2,2-Tetrachloroethane	13	U
56605	Trans-1,2-Dichloroethene	31	U	108883	Toluene	31	120
7663	Chloroform	31	U	108907	Chlorobenzene	25	U
07062	1,2-Dichloroethane	13	U	100414	Ethylbenzene	31	440
3933	2-Butanone	160	22J	100425	Styrene	31	U
556	1,1,1-Trichloroethane	31	U	108383	m&p-Xylenes	31	1000
5235	Carbon Tetrachloride	13	U	95476	o-Xylene	31	400
08054	Vinyl Acetate	63	U	541731	1,3-Dichlorobenzene	31	U
5274	Bromodichloromethane	6	U	95501	1,2-Dichlorobenzene	31	U
8875	1,2-Dichloropropane	6	U	106467	1,4-Dichlorobenzene	31	U
0061015	cis-1,3-Dichloropropene	31	U	1634044	Methyl-t-butyl ether	31	U
016	Trichloroethene	6	U	108203	Di-isopropyl-ether	31	U
				75650	t-Butyl Alcohol	630	U

TARGET COMPOUND SUMMARY: 2500

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.
AA30513

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: SOIL Client ID: PE-10

Sample wt/vol: 1.0(g/ml) g Lab File ID: >E4645

Level: (low/med) LOW Date Recvd/Ext: 05/12/95-NA

% Solid: 80 Date Analyzed: 05/16/95

Column: CAP Dilution Factor: 5

Number of TICs found: 10 CONCENTRATION UNITS: ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	110543	Hexane	7.36	88	J
2	4806615	Cyclobutane, ethyl-	9.09	156	J
3	110827	Cyclohexane	10.83	188	J
4	108872	Cyclohexane, methyl-	13.54	175	J
5		Unknown substituted benzene	21.45	306	J
6		Unknown substituted benzene	21.61	131	J
7		Unknown substituted benzene	22.00	144	J
8	95636	Benzene, 1,2,4-trimethyl-	22.32	375	J
9		Unknown substituted benzene	23.10	169	J
10		Unknown	23.47	169	J

Tentative Compound Summary: 1900

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Output File: ^E4645::QT
Data File: >E4645::D1
Name: AA30513
Misc: S,1g

Quant Rev: 7
Quant Time: 950516 20:06
Injected at: 950516 19:36
Dilution Factor: 1.00000
Instrument ID: MSD_1

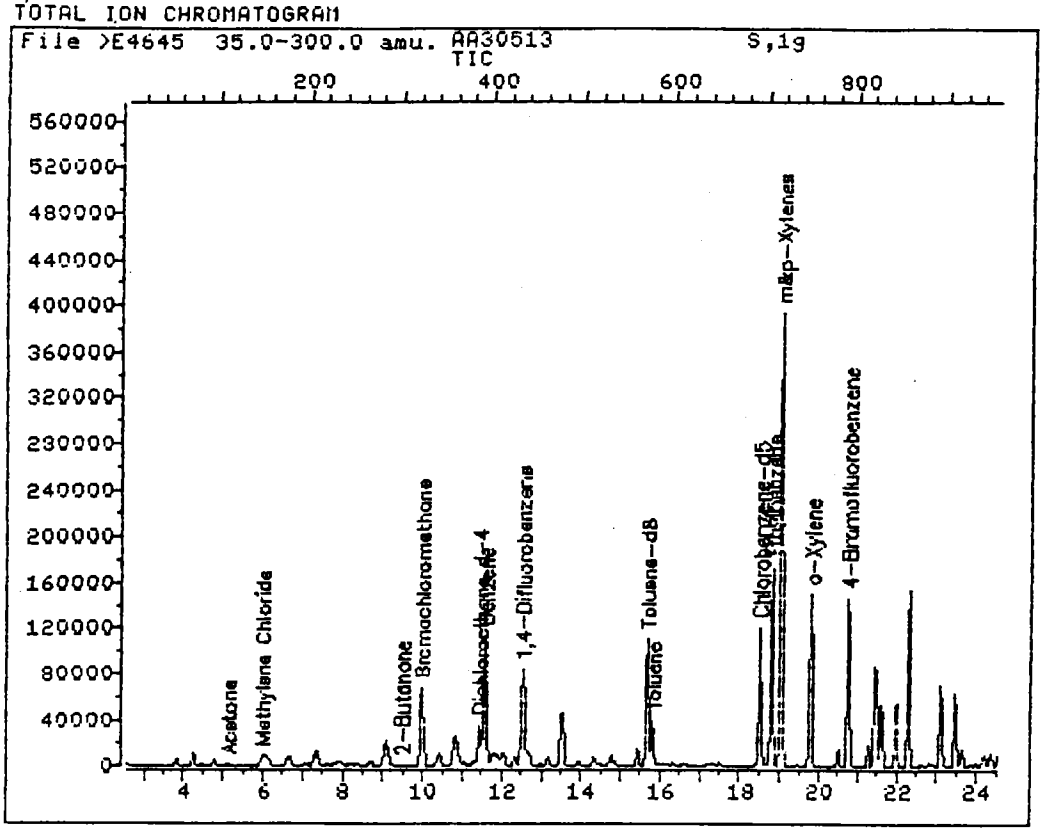
ID File: IDSV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950516 14:14

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.98	323	56347	50.00	ug/L	95
9)	Methylene Chloride	5.98	149	5487	4.83	ug/L	93
10)	Acetone	5.13	112	5235	19.87	ug/L	89
19)	1,2-Dichloroethane-d4	11.45	387	16602	48.11	ug/L	94
21)	2-Butanone	9.48	301	2276	3.55	ug/L	99
28)	*1,4-Difluorobenzene	12.53	434	192746	50.00	ug/L	97
35)	Benzene	11.59	393	283295	85.98	ug/L	97
39)	*Chlorobenzene-d5	18.51	694	162289	50.00	ug/L	96
45)	Toluene	15.82	577	38786	19.02	ug/L	97
46)	Toluene d-8	15.68	571	178987	52.82	ug/L	96
48)	Ethylbenzene	18.80	707	304857	69.91	ug/L	98
50)	m&p-Xylenes	19.03	717	258551	167.76	ug/L	96
51)	o-Xylene	19.79	750	226909	63.66	ug/L	96
53)	Bromofluorobenzene	20.76	792	128330	47.42	ug/L	86

* Compound is ISTD

6/02/95

TOTAL ION CHROMATOGRAM



Data File: >E4645::D1 Quant Output File: ^E4645::QT
Name: AA30513 Instrument ID: MSD_1
Misc: S,1g

Id File: IDSVO1::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950516 14:14

Operator ID: LIN
Quant Time : 950516 20:06
Injected at: 950516 19:36

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID	: PE-11	Lab Sample No.	: AA30514
Date Rcvd/Extd	: 05/12/95-NA	Lab File ID	: >E4632
Sample Matrix	: Soil	Date Analyzed	: 05/15/95
Percent Solid	: 83	Dilution Factor	: 500
Column	: J&W DB-624 75M .53mm ID column	Sample Wt/Vol	: 5.0ml

CONCENTRATION UNITS: UG/KG(PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	6000	U	124481	Dibromochloromethane	3000	U
4839	Bromomethane	6000	U	79005	1,1,2-Trichloroethane	1800	U
5014	Vinyl Chloride	3000	U	71432	Benzene	600	U
5003	Chloroethane	6000	U	10061026	Trans-1,3-Dichloropropene	3000	U
5092	Methylene Chloride	6000	690JB	110758	2-Chloroethylvinylether	6000	U
7641	Acetone	12000	U	75252	Bromoform	2400	U
5150	Carbon Disulfide	3000	U	108101	4-Methyl-2-Pentanone	15000	U
5694	Trichlorofluoromethane	3000	U	591786	2-Hexanone	12000	U
5354	1,1-Dichloroethene	1200	U	127184	Tetrachloroethene	600	U
5343	1,1-Dichloroethane	3000	U	79345	1,1,2,2-Tetrachloroethane	1200	U
56605	Trans-1,2-Dichloroethene	3000	U	108883	Toluene	3000	1500J
7663	Chloroform	3000	U	108907	Chlorobenzene	2400	U
07062	1,2-Dichloroethane	1200	U	100414	Ethylbenzene	3000	9400
8933	2-Butanone	15000	U	100425	Styrene	3000	U
1556	1,1,1-Trichloroethane	3000	U	108383	m&p-Xylenes	3000	25000
6235	Carbon Tetrachloride	1200	U	95476	o-Xylene	3000	11000
08054	Vinyl Acetate	6000	U	541731	1,3-Dichlorobenzene	3000	U
5274	Bromodichloromethane	600	U	95501	1,2-Dichlorobenzene	3000	U
8875	1,2-Dichloropropane	600	U	106467	1,4-Dichlorobenzene	3000	U
0061015	cis-1,3-Dichloropropene	3000	U	1634044	Methyl-t-butyl ether	3000	U
9016	Trichloroethene	600	U	108203	Di-isopropyl-ether	3000	U
				75650	t-Butyl Alcohol	60000	U

TARGET COMPOUND SUMMARY: 45400

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.
AA30514

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: SOIL Client ID: PE-11

Sample wt/vol: 5.0 (g/ml) ml Lab File ID: >E4632

Level: (low/med) MED Date Recvd/Ext: 05/12/95-NA

% Solid: 83 Date Analyzed: 05/15/95

Column: CAP Dilution Factor: 500

Number of TICs found: 10 CONCENTRATION UNITS: ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	1517153	Cyclobutanone, 2-methyl-	10.82	54217	J
2	142825	Heptane	12.34	59036	J
3	108872	Cyclohexane, methyl-	13.54	96386	J
4	592278	Heptane, 2-methyl-	14.96	53012	J
5	111659	Octane	16.16	66265	J
6	17302237	Nonane, 4,5-dimethyl-	18.16	41566	J
7	622968	Benzene, 1-ethyl-4-methyl-	21.45	43976	J
8	1120214	Undecane	21.68	54819	J
9	95636	Benzene, 1,2,4-trimethyl-	22.33	38554	J
10	1758889	Benzene, 2-ethyl-1,4-dimethy	23.66	33133	J

Tentative Compound Summary: 540964

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Output File: ^E4632::QT
Data File: >E4632::D1
Name: AA30514
Misc: M,25ul OF 4g/10ml

Quant Rev: 7
Quant Time: 950515 20:35
Injected at: 950515 20:05
Dilution Factor: 1.00000
Instrument ID: MSD_1

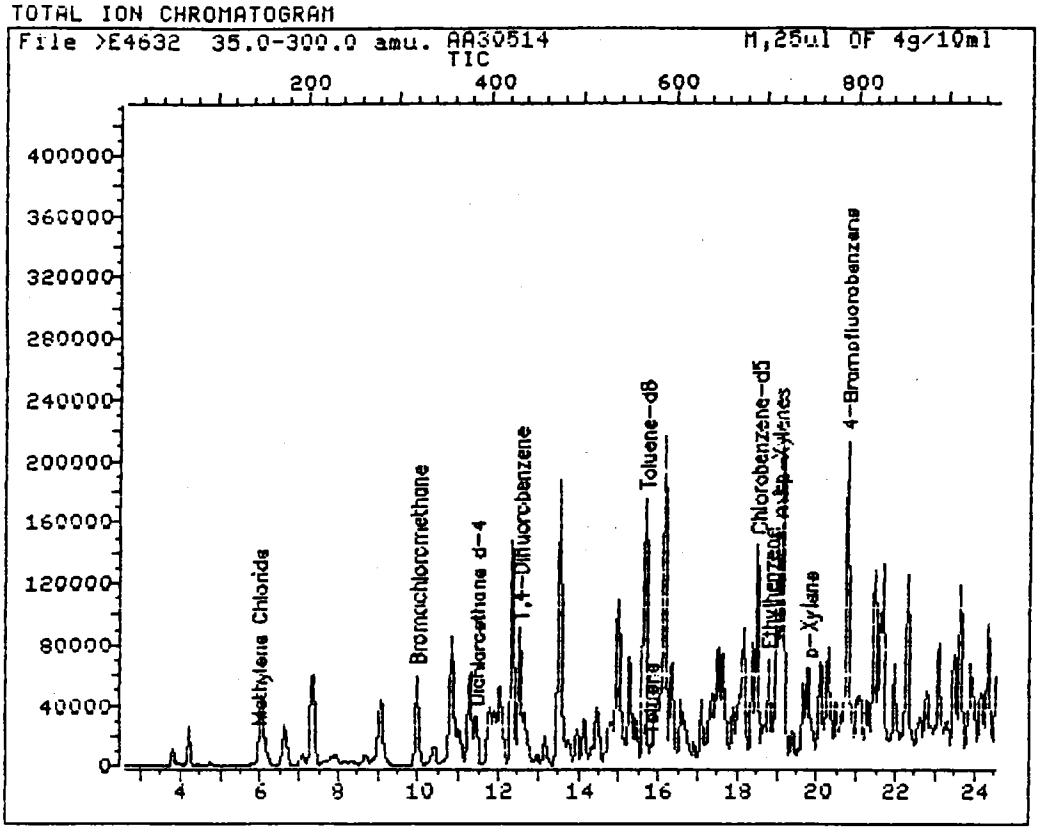
ID File: IDWV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950515 13:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.97	321	50312	50.00	ug/L	96
9)	Methylene Chloride	5.98	147	1359	1.14	ug/L	96
19)	1,2-Dichloroethane-d4	11.44	385	14466	48.70	ug/L	94
28)	*1,4-Difluorobenzene	12.53	432	206065	50.00	ug/L	97
39)	*Chlorobenzene-d5	18.50	692	181433	50.00	ug/L	95
45)	Toluene	15.81	575	5974	2.51	ug/L	96
46)	Toluene d-8	15.68	569	197142	50.57	ug/L	96
48)	Ethylbenzene	18.80	705	80532	15.64	ug/L	95
50)	m&p-Xylenes	19.03	715	76141	42.14	ug/L	93
51)	o-Xylene	19.79	748	77487	18.57	ug/L	97
53)	Bromofluorobenzene	20.76	790	150114	50.60	ug/L	87

* Compound is ISTD

6/5/95

TOTAL ION CHROMATOGRAM



Data File: >E4632::D1 Quant Output File: ^E4632::QT
Name: AA30514 Instrument ID: MSD_1
Misc: M,25ul OF 4g/10ml

Id File: IDWU01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950515 13:21

Operator ID: LIN
Quant Time : 950515 20:35
Injected at: 950515 20:05

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID : PE-12
Date Rcvd/Extd: 05/12/95-NA
Sample Matrix : Soil
Percent Solid : 91
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : AA30515
Lab File ID : >E4625
Date Analyzed : 05/15/95
Dilution Factor: 1
Sample Wt/Vol : 5.0g

CONCENTRATION UNITS: UG/KG(PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	11	U	124481	Dibromochloromethane	5	U
4839	Bromomethane	11	U	79005	1,1,2-Trichloroethane	3	U
5014	Vinyl Chloride	5	U	71432	Benzene	1	U
5003	Chloroethane	11	U	10061026	Trans-1,3-Dichloropropene	5	U
5092	Methylene Chloride	11	3JB	110758	2-Chloroethylvinylether	11	U
7641	Acetone	22	11J	75252	Bromoform	4	U
5150	Carbon Disulfide	5	U	108101	4-Methyl-2-Pentanone	27	U
5694	Trichlorofluoromethane	5	U	591786	2-Hexanone	22	U
5354	1,1-Dichloroethene	2	U	127184	Tetrachloroethene	1	U
5343	1,1-Dichloroethane	5	U	79345	1,1,2,2-Tetrachloroethane	2	U
56605	Trans-1,2-Dichloroethene	5	U	108883	Toluene	5	U
7663	Chloroform	5	U	108907	Chlorobenzene	4	U
07062	1,2-Dichloroethane	2	U	100414	Ethylbenzene	5	U
8933	2-Butanone	27	U	100425	Styrene	5	U
1556	1,1,1-Trichloroethane	5	U	108383	m&p-Xylenes	5	U
6235	Carbon Tetrachloride	2	U	95476	o-Xylene	5	U
08054	Vinyl Acetate	11	U	541731	1,3-Dichlorobenzene	5	U
5274	Bromodichloromethane	1	U	95501	1,2-Dichlorobenzene	5	U
8875	1,2-Dichloropropane	1	U	106467	1,4-Dichlorobenzene	5	U
0061015	cis-1,3-Dichloropropene	5	U	1634044	Methyl-t-butyl ether	5	U
9016	Trichloroethene	1	U	108203	Di-isopropyl-ether	5	U
				75650	t-Butyl Alcohol	110	U

TARGET COMPOUND SUMMARY: 0

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.
AA30515

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: SOIL Client ID: PE-12

Sample wt/vol: 5.0(g/ml) g Lab File ID: >E4625

Level: (low/med) LOW Date Recvd/Ext: 05/12/95-NA

% Solid: 91 Date Analyzed: 05/15/95

Column: CAP Dilution Factor: 1

Number of TICs found: 1 CONCENTRATION UNITS: ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	Unknown	24.31	5	J

Tentative Compound Summary: 5

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Output File: ^E4625::QT
Data File: >E4625::D1
Name: AA30515
Misc: S,5g

Quant Rev: 7
Quant Time: 950515 15:54
Injected at: 950515 15:24
Dilution Factor: 1.00000
Instrument ID: MSD_1

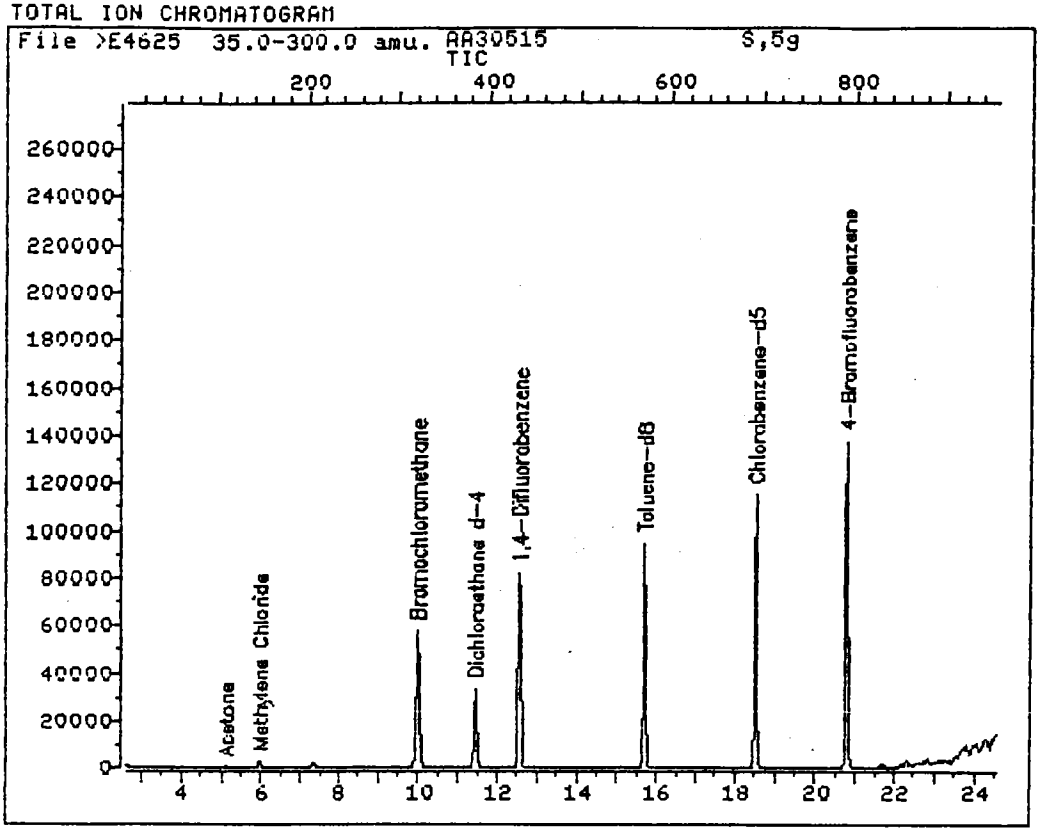
ID File: IDSV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950515 13:51

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.97	321	49942	50.00	ug/L	91
9)	Methylene Chloride	5.97	147	3271	3.04	ug/L	93
10)	Acetone	5.12	110	2349	10.07	ug/L	86
19)	1,2-Dichloroethane-d4	11.44	385	14972	49.01	ug/L	95
28)	*1,4-Difluorobenzene	12.54	433	180463	50.00	ug/L	97
39)	*Chlorobenzene-d5	18.52	693	148785	50.00	ug/L	95
46)	Toluene d-8	15.69	570	158889	50.91	ug/L	97
53)	Bromofluorobenzene	20.77	791	117164	45.89	ug/L	96

* Compound is ISTD

5/07/95

TOTAL ION CHROMATOGRAM



Data File: >E4625::D1 Quant Output File: ^E4625::QT
Name: AA30515 Instrument ID: MSD_1
Misc: S,5g

Id File: IDSV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950515 13:51

Operator ID: LIN
Quant Time : 950515 15:54
Injected at: 950515 15:24

HAMPTON-CLARKE/VERITECH
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID : FB
Date Rcvd/Extd: 05/12/95-NA
Sample Matrix : Water
Percent Solid : 0
Column : J&W DB-624 75M .53mm ID column

Lab Sample No. : AA30516
Lab File ID : >E4630
Date Analyzed : 05/15/95
Dilution Factor: 1
Sample Wt/Vol : 5.0ml

CONCENTRATION UNITS: UG/L (PPB)

CAS No.	COMPOUND	PQL	CONC	CAS NO.	COMPOUND	PQL	CONC
4873	Chloromethane	10	U	124481	Dibromochloromethane	5	U
4839	Bromomethane	10	U	79005	1,1,2-Trichloroethane	3	U
5014	Vinyl Chloride	5	U	71432	Benzene	1	U
5003	Chloroethane	10	U	10061026	Trans-1,3-Dichloropropene	5	U
5092	Methylene Chloride	10	7JB	110758	2-Chloroethylvinylether	10	U
7641	Acetone	20	19J	75252	Bromoform	4	U
5150	Carbon Disulfide	5	U	108101	4-Methyl-2-Pentanone	25	U
5694	Trichlorofluoromethane	5	U	591786	2-Hexanone	20	U
5354	1,1-Dichloroethene	2	U	127184	Tetrachloroethene	1	U
5343	1,1-Dichloroethane	5	U	79345	1,1,2,2-Tetrachloroethane	2	U
56605	Trans-1,2-Dichloroethene	5	U	108883	Toluene	5	U
7663	Chloroform	5	U	108907	Chlorobenzene	4	U
17062	1,2-Dichloroethane	2	U	100414	Ethylbenzene	5	U
3933	2-Butanone	25	U	100425	Styrene	5	U
1556	1,1,1-Trichloroethane	5	U	108383	m&p-Xylenes	5	U
5235	Carbon Tetrachloride	2	U	95476	o-Xylene	5	U
08054	Vinyl Acetate	10	U	541731	1,3-Dichlorobenzene	5	U
5274	Bromodichloromethane	1	U	95501	1,2-Dichlorobenzene	5	U
8875	1,2-Dichloropropane	1	U	106467	1,4-Dichlorobenzene	5	U
10061015	cis-1,3-Dichloropropene	5	U	1634044	Methyl-t-butyl ether	5	5J
9016	Trichloroethene	1	U	108203	Di-isopropyl-ether	5	U
				75650	t-Butyl Alcohol	100	U

TARGET COMPOUND SUMMARY: 0

DATA REPORTING QUALIFIERS

U - Indicates the compound was analyzed for but not detected.
J - Indicates an estimated value used when a compound is detected at less than the specified detection limit.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the GC/MS instrument for that specific analyte.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LAB SAMPLE NO.

AA30516

Lab Name: VERITECH, NJDEPE CERT.# 14622 Contract:-------

Lab Code: GC/MS Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: WATER Client ID: FB

Sample wt/vol: 5.0 (g/ml) ml Lab File ID: >E4630

Level: (low/med) LOW Date Recvd/Ext: 05/12/95-NA

% Solid: 0 Date Analyzed: 05/15/95

Column: CAP Dilution Factor: 1

Number of TICs found: 0 CONCENTRATION UNITS: ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Tentative Compound Summary: 0

DATA REPORTING QUALIFIERS

A - Indicates an aldol condensate
J - Indicates an estimated value
B - Indicates compound was found in the blank as well as in the sample

QUANT REPORT

Operator ID: LIN
Output File: ^E4630::QT
Data File: >E4630::D1
Name: AA30516
Misc: A,5ml,FB

Quant Rev: 7
Quant Time: 950515 19:24
Injected at: 950515 18:59
Dilution Factor: 1.00000
Instrument ID: MSD_1

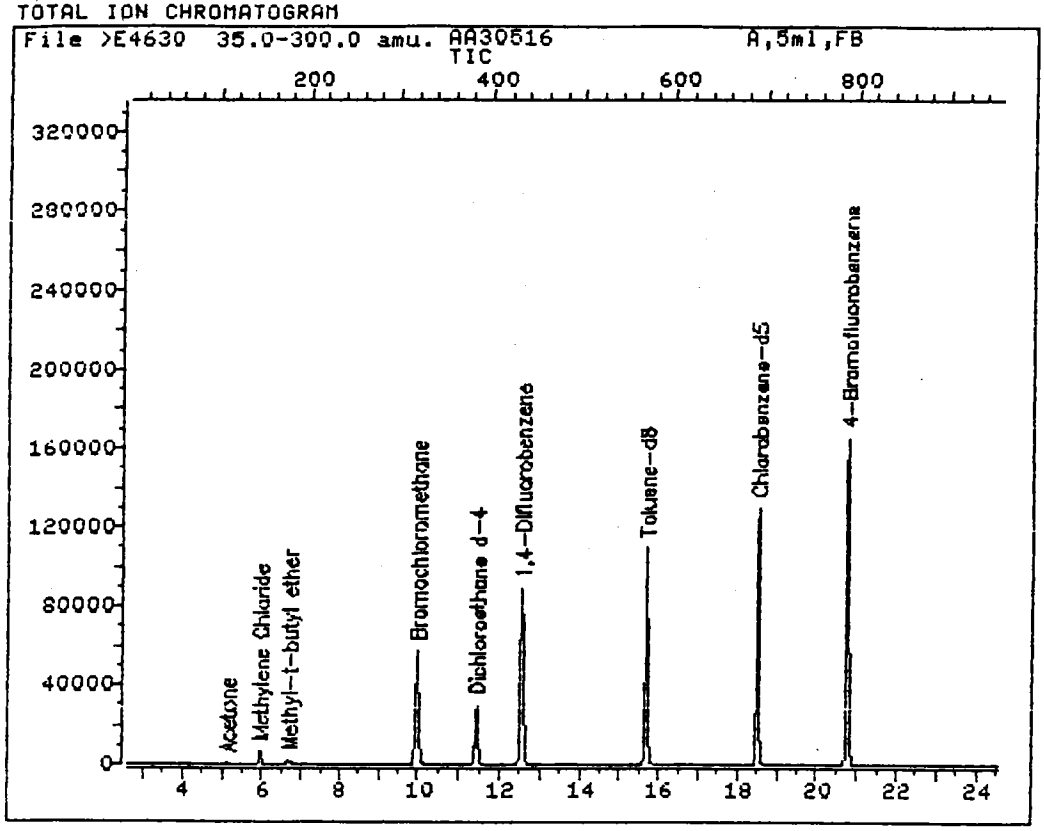
ID File: IDWV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20
Last Qcal Time: 950515 13:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	9.97	321	48681	50.00	ug/L	96
8)	Methyl-t-butyl ether	6.69	178	7657	4.83	ug/L	92
9)	Methylene Chloride	5.96	146	8150	7.06	ug/L	94
10)	Acetone	5.13	110	2514	19.32	ug/L	81
19)	1,2-Dichloroethane-d4	11.44	385	13673	47.58	ug/L	94
28)	*1,4-Difluorobenzene	12.55	433	200805	50.00	ug/L	97
39)	*Chlorobenzene-d5	18.52	693	179162	50.00	ug/L	96
46)	Toluene d-8	15.67	569	187618	48.74	ug/L	95
53)	Bromofluorobenzene	20.77	791	149493	51.03	ug/L	97

* Compound is ISTD

5/02/95

TOTAL ION CHROMATOGRAM



Data File: >E4630::D1 Quant Output File: ^E4630::QT
Name: AA30516 Instrument ID: MSD_1
Misc: A,5ml,FB

Id File: IDWV01::D2
Title: J&W DB-624 75M .53mm ID column
Last Calibration: 950427 21:20 Last Qcal Time: 950515 13:21

Operator ID: LIN
Quant Time : 950515 19:24
Injected at: 950515 18:59

2A
VOLATILE SURROGATE RECOVERIES

Lab Name: Veritech NJDEPE CERT.# 14622

Lab Code: 020406 Case No.:---- SAS No.:---- SDG No.:----

Date Analyzed: 05/12/95

LAB SAMP NO.	($)	S1 (DCE)#	S2 (TOL)#	S3 (BFB)#	FILE	TOT OUT
DAILY BLK(	W	95	99	99	^E4605	0
DAILY BLK(	S	99	98	98	^E4606	0
DAILY BLK(	W	93	101	100	^E4607	0
AA30484	W	92	100	99	^E4608	0
AA30462	S	101	87	100	^E4609	0
AA30493	S	99	99	100	^E4610	0
AA30492	W	96	103	97	^E4611	0
AA30499	W	94	100	98	^E4612	0
AA30484TCL	W	95	97	97	^E4613	0
AA30458MS	S	102	99	100	^E4614	0
AA30458MSD	S	105	101	100	^E4615	0
SMB-SPK	S	103	99	100	^E4616	0
WMB-SPK	W	98	100	101	^E4617	0
AA30489MS	W	98	99	97	^E4618	0
AA30489MSD	W	99	100	99	^E4619	0

QC Limits For:	Soil	Water	Sur Conc(ug/L) Water	Sur Conc(ug/L) Soil
S1 (DCE) = 1,2-Dichloroethane-d4	70-121	76-114	50	50
S2 (TOL) = Toluene d-8	81-117	88-110	50	50
S3 (BFB) = Bromofluorobenzene	74-121	86-115	50	50

$ Column indicating Soil or Water matrix
# Column to be used to flag recovery values
* Values outside of method/lab limits

2A
VOLATILE SURROGATE RECOVERIES

Lab Name: Veritech NJDEPE CERT.# 14622

Lab Code: 020406 Case No.:---- SAS No.:---- SDG No.:----

Date Analyzed: 05/15/95

LAB SAMP NO.	($)	S1 (DCE)#	S2 (TOL)#	S3 (BFB)#	FILE	TOT OUT
DAILY BLK(	W	94	100	99	^E4623	0
DAILY BLK(	S	96	98	100	^E4624	0
AA30515	S	98	102	92	^E4625	0
AA30513	W	95	100	98	^E4626	0
AA30512	W	96	98	98	^E4627	0
AA30514	W	97	99	103	^E4628	0
DAILY BLK(	W	101	98	100	^E4629	0
AA30516	W	95	97	102	^E4630	0
AA30512	W	97	100	98	^E4631	0
AA30514	W	97	101	101	^E4632	0
AA30513	S	91	114	88	^E4633	0

QC Limits For:	Soil	Water	Sur Conc(ug/L) Water	Sur Conc(ug/L) Soil
S1 (DCE) = 1,2-Dichloroethane-d4	70-121	76-114	50	50
S2 (TOL) = Toluene d-8	81-117	88-110	50	50
S3 (BFB) = Bromofluorobenzene	74-121	86-115	50	50

$ Column indicating Soil or Water matrix
# Column to be used to flag recovery values
* Values outside of method/lab limits

2A
VOLATILE SURROGATE RECOVERIES

Lab Name: Veritech NJDEPE CERT.# 14622

Lab Code: 020406 Case No.:---- SAS No.:---- SDG No.:----

Date Analyzed: 05/16/95

LAB SAMP NO.	($)	S1 (DCE)#	S2 (TOL)#	S3 (BFB)#	FILE	TOT OUT
DAILY BLK(	W	98	101	99	^E4637	0
AA30483TCL	W	95	102	100	^E4638	0
AA30485TCL	W	96	102	101	^E4639	0
AA30486TCL	W	96	99	100	^E4640	0
DAILY BLK(	S	99	100	99	^E4641	0
AA30483TCL	W	97	102	100	^E4642	0
AA30485TCL	W	97	100	99	^E4643	0
AA30486TCL	W	98	100	101	^E4644	0
AA30513	S	96	106	95	^E4645	0
AA30483MS	W	101	101	102	^E4646	0
AA30483MSD	W	100	100	101	^E4647	0
WMB-SPK	W	99	101	100	^E4648	0

QC Limits For:	Soil	Water	Sur Conc(ug/L) Water	Sur Conc(ug/L) Soil
S1 (DCE) = 1,2-Dichloroethane-d4	70-121	76-114	50	50
S2 (TOL) = Toluene d-8	81-117	88-110	50	50
S3 (BFB) = Bromofluorobenzene	74-121	86-115	50	50

$ Column indicating Soil or Water matrix
# Column to be used to flag recovery values
* Values outside of method/lab limits

FORM 3

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Matrix Spike - Lab sample No.: AA30458

Non spiked file: ^E4586 Spiked file: ^E4614 Spike dup file: ^E4615

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MSD Conc (ug/Kg)	MS % Rec#	MSD % Rec#	% Rpd#	QC Limits Rpd	QC Limits Rec
1,1-Dichloroethene	50	0	50	46	100	92	8	22	59-172
Trichloroethene	50	0	49	49	98	98	0	24	62-137
Benzene	50	0	51	51	102	102	0	21	66-142
Toluene	50	0	50	51	100	102	2	21	59-139
Chlorobenzene	50	0	50	50	100	100	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

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

Comments:

FORM 3

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Matrix Spike - Lab sample No.: AA30489

Non spiked file: ^E4601 Spiked file: ^E4618 Spike dup file: ^E4619

Compound	Spike Added (ug/L)	Sample Conc (ug/L)	MS Conc (ug/L)	MSD Conc (ug/L)	MS % Rec#	MSD % Rec#	% Rpd#	QC Limits Rpd	QC Limits Rec
1,1-Dichloroethene	50	0	44	42	88	84	5	14	61-145
Trichloroethene	50	0	51	51	102	102	0	14	71-120
Benzene	50	0	53	53	106	106	0	11	76-127
Toluene	50	0	50	51	100	102	2	13	76-125
Chlorobenzene	50	0	51	51	102	102	0	13	75-130

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

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

Comments:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622,

Lab file ID: >E4605 Lab Sample ID: DAILY BLK(M

Date Analyzed: 05/12/95 Time Analyzed: 15:00

Matrix: Water

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

LAB FILE NO.	LAB SAMPLE ID	DATE ANALYZED
>E4611	AA30492	18:15
>E4612	AA30499	18:51
>E4617	WMB-SPK	21:51
>E4618	AA30489MS	22:27
>E4619	AA30489MSD	23:02

Comments:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622,

Lab file ID: >E4606 Lab Sample ID: DAILY BLK(S

Date Analyzed: 05/12/95 Time Analyzed: 15:30

Matrix: Soil

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

LAB FILE NO.	LAB SAMPLE ID	DATE ANALYZED
>E4609	AA30462	17:04
>E4610	AA30493	17:39
>E4614	AA30458MS	20:03
>E4615	AA30458MSD	20:39
>E4616	SMB-SPK	21:15

Comments:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622,

Lab file ID: >E4623 Lab Sample ID: DAILY BLK(M

Date Analyzed: 05/15/95 Time Analyzed: 14:26

Matrix: Water

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

LAB FILE NO.	LAB SAMPLE ID	DATE ANALYZED
>E4626	AA30513	16:00
>E4627	AA30512	16:35
>E4628	AA30514	17:10
>E4631	AA30512	19:29
>E4632	AA30514	20:05

Comments:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622,

Lab file ID: >E4624 Lab Sample ID: DAILY BLK(S

Date Analyzed: 05/15/95 Time Analyzed: 14:55

Matrix: Soil

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

LAB FILE NO.	LAB SAMPLE ID	DATE ANALYZED
>E4625	AA30515	15:24
>E4633	AA30513	20:41

Comments:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622,

Lab file ID: >E4629 Lab Sample ID: DAILY BLK(A

Date Analyzed: 05/15/95 Time Analyzed: 18:28

Matrix: Water

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

LAB FILE NO.	LAB SAMPLE ID	DATE ANALYZED
>E4630	AA30516	18:59

Comments:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622,

Lab file ID: >E4641 Lab Sample ID: DAILY BLK(S

Date Analyzed: 05/16/95 Time Analyzed: 17:17

Matrix: Soil

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

LAB FILE NO.	LAB SAMPLE ID	DATE ANALYZED
>E4645	AA30513	19:36

Comments:

5A

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

ab Name:VERITECH Contract: -----

ab File ID: >E4466 BFB Injection date: 4/27/95

nstrument ID: MSD_1 BFB Injection time: 15:27

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15-40% of mass 95	22.2
75	30-60% of mass 95	44.8
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	69.5
175	5.0 - 9.0% of mass 174	5.2(7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.3(98.2)1
177	5.0 - 9.0% of mass 176	4.5(6.6)2

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

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

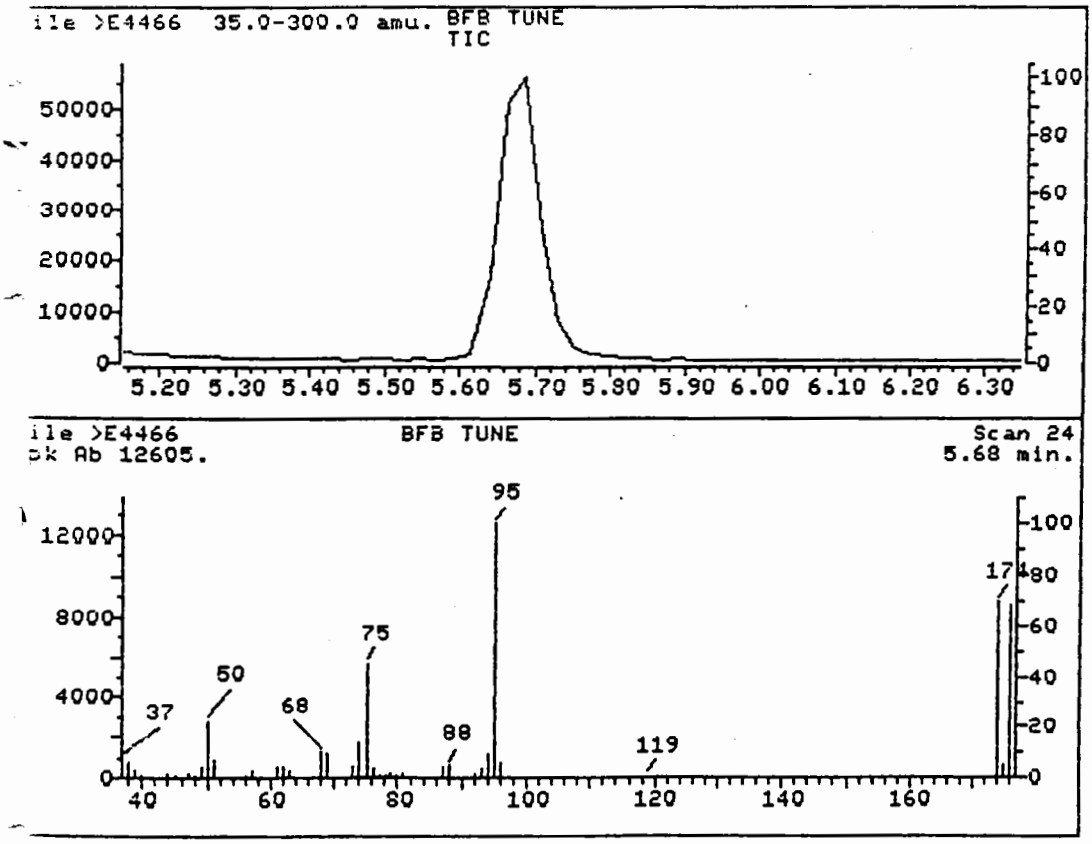
	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	10PPB STD	>E4467	4/27/95	15:58
2	----------	20PPB STD	>E4468	4/27/95	16:28
3	----------	DAILY CAL(A)	>E4469	4/27/95	16:58
4	----------	100PPB STD	>E4470	4/27/95	17:28
5	----------	200PPB STD	>E4471	4/27/95	17:58
6	----------	10PPB STD	>E4472	4/27/95	18:28
7	----------	20PPB STD	>E4473	4/27/95	18:59
8	----------	DAILY CAL(S)	>E4474	4/27/95	19:29
9	----------	100PPB STD	>E4475	4/27/95	19:59
10	----------	200PPB STD	>E4476	4/27/95	20:29
11	----------	BLANK	>E4477	4/27/95	20:59
12	----------	DAILY BLK(S)	>E4478	4/27/95	21:29
13	----------	AA30186	>E4479	4/27/95	21:59
14	----------	AA30187	>E4480	4/27/95	22:35
15	----------	AA30186MS	>E4481	4/27/95	23:12
16	----------	AA30186MSD	>E4482	4/27/95	23:49
17	----------	SMB-SPK	>E4483	4/28/95	0:25

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	22.17	22.17	Ok
75	30-60% of mass 95	44.79	44.79	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.40	6.40	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	69.50	69.50	Ok
175	5-9% of mass 174	5.16	7.42	Ok
176	95-101% of mass 174	68.26	98.22	Ok
177	5-9% of mass 176	4.49	6.58	Ok

Injection Date: 04/27/95
Injection Time: 15:27
Data File: >E4466
Scan: 24



6/02/95

000063

>E4466 BFB TUNE
24

File: >E4466 Scan #: 24 Retn. time: 5.68

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	882.0	49.05	584.0	68.05	1261.0	78.95	248.0	95.05	12605.0
38.00	783.0	50.05	2794.0	69.05	1228.0	79.95	99.0	96.05	807.0
39.00	298.0	51.05	899.0	73.05	514.0	80.95	270.0	118.95	70.0
40.00	139.0	56.05	170.0	74.05	1702.0	87.05	608.0	174.00	8760.0
44.00	200.0	57.05	333.0	75.05	5646.0	87.95	614.0	175.00	650.0
45.10	144.0	61.05	579.0	76.05	492.0	92.05	256.0	176.00	8604.0
47.10	290.0	62.05	512.0	77.05	140.0	93.05	458.0	177.00	566.0
48.00	93.0	63.05	339.0	78.05	114.0	94.05	1219.0		

5A

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

ab Name: VERITECH Contract: -----

ab File ID: >E4602 BFB Injection date: 5/12/95

nstrument ID: MSD_1 BFB Injection time: 13:26

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15-40% of mass 95	21.8
75	30-60% of mass 95	45.8
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	.6(.8)1
174	Greater than 50.0% of mass 95	72.6
175	5.0 - 9.0% of mass 174	5.1(7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.3(95.5)1
177	5.0 - 9.0% of mass 176	4.4(6.4)2

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

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

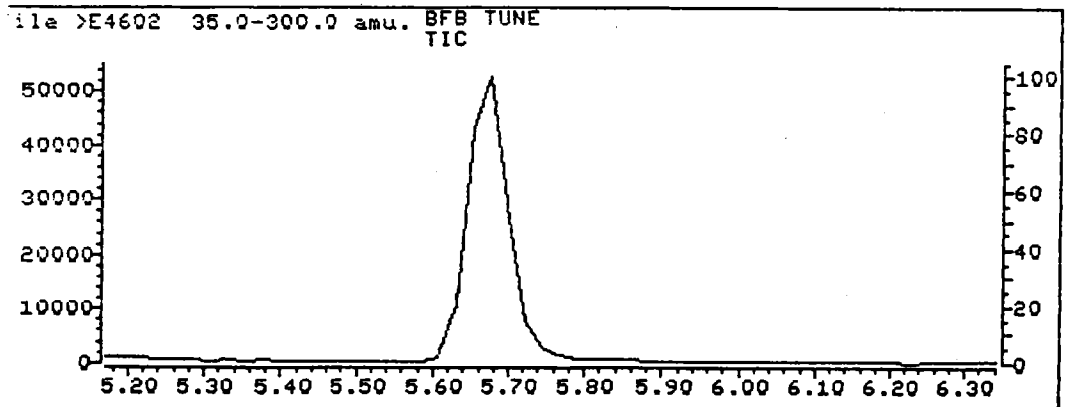
	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	DAILY CAL(A)	>E4603	5/12/95	13:55
2	----------	DAILY CAL(S)	>E4604	5/12/95	14:25
3	----------	DAILY BLK(ME	>E4605	5/12/95	15:00
4	----------	DAILY BLK(S)	>E4606	5/12/95	15:30
5	----------	DAILY BLK(A)	>E4607	5/12/95	15:59
6	----------	AA30484	>E4608	5/12/95	16:29
7	----------	AA30462	>E4609	5/12/95	17:04
8	----------	AA30493	>E4610	5/12/95	17:39
9	----------	AA30492	>E4611	5/12/95	18:15
10	----------	AA30499	>E4612	5/12/95	18:51
11	----------	AA30484TCLP	>E4613	5/12/95	19:27
12	----------	AA30458MS	>E4614	5/12/95	20:03
13	----------	AA30458MSD	>E4615	5/12/95	20:39
14	----------	SMB-SPK	>E4616	5/12/95	21:15
15	----------	WMB-SPK	>E4617	5/12/95	21:51
16	----------	AA30489MS	>E4618	5/12/95	22:27
17	----------	AA30489MSD	>E4619	5/12/95	23:02

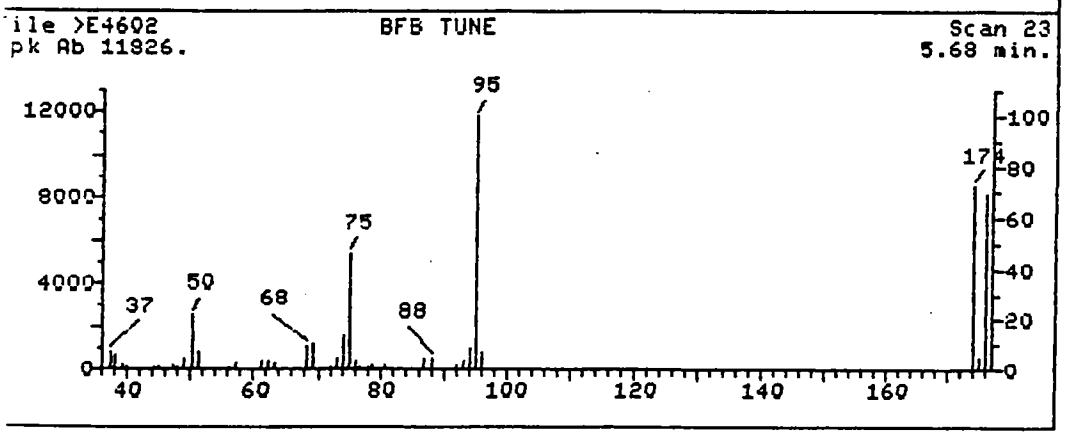
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	21.76	21.76	Ok
75	30-60% of mass 95	45.81	45.81	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.70	6.70	Ok
173	Less than 2% of mass 174	.58	.79	Ok
174	Greater than 50% of mass 95	72.58	72.58	Ok
175	5-9% of mass 174	5.06	6.97	Ok
176	95-101% of mass 174	69.35	95.55	Ok
177	5-9% of mass 176	4.45	6.41	Ok

Injection Date: 05/12/95
Injection Time: 13:26
Data File: >E4602
Scan: 23





5/12/95

000066

>E4602 BFB TUNE
23

File: >E4602 Scan #: 23 Retn. time: 5.68

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	159.0	48.00	80.0	63.05	361.0	76.95	99.0	94.05	1032.0
37.10	820.0	49.05	485.0	68.05	1130.0	78.05	93.0	95.05	11826.0
38.00	681.0	50.05	2573.0	69.05	1179.0	78.95	217.0	96.05	792.0
39.10	264.0	51.05	812.0	72.05	88.0	80.95	232.0	173.00	68.0
40.00	145.0	56.05	148.0	73.05	488.0	86.95	533.0	174.00	8583.0
44.10	171.0	57.05	307.0	74.05	1578.0	88.05	568.0	175.00	598.0
45.00	142.0	61.05	461.0	75.05	5418.0	92.05	251.0	176.00	8201.0
47.10	246.0	62.05	454.0	76.05	460.0	93.05	378.0	177.00	526.0

5A

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

ab Name:VERITECH Contract: -----

ab File ID: >E4620 BFB Injection date: 5/15/95

nstrument ID: MSD_1 BFB Injection time: 12:51

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15-40% of mass 95	22.2
75	30-60% of mass 95	46.0
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	.3(.5)1
174	Greater than 50.0% of mass 95	68.1
175	5.0 - 9.0% of mass 174	5.1(7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.7(100.9)1
177	5.0 - 9.0% of mass 176	4.0(5.8)2

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

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

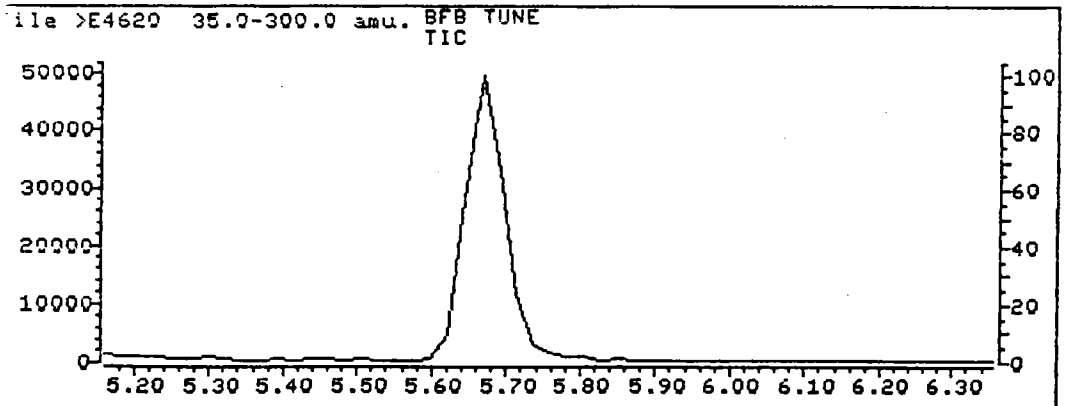
	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	DAILY CAL(A)	>E4621	5/15/95	13:21
2	----------	DAILY CAL(S)	>E4622	5/15/95	13:51
3	----------	DAILY BLK(ME	>E4623	5/15/95	14:26
4	----------	DAILY BLK(S)	>E4624	5/15/95	14:55
5	----------	AA30515	>E4625	5/15/95	15:24
6	----------	AA30513	>E4626	5/15/95	16:00
7	----------	AA30512	>E4627	5/15/95	16:35
8	----------	AA30514	>E4628	5/15/95	17:10
9	----------	DAILY BLK(A)	>E4629	5/15/95	18:28
10	----------	AA30516	>E4630	5/15/95	18:59
11	----------	AA30512	>E4631	5/15/95	19:29
12	----------	AA30514	>E4632	5/15/95	20:05
13	----------	AA30513	>E4633	5/15/95	20:41

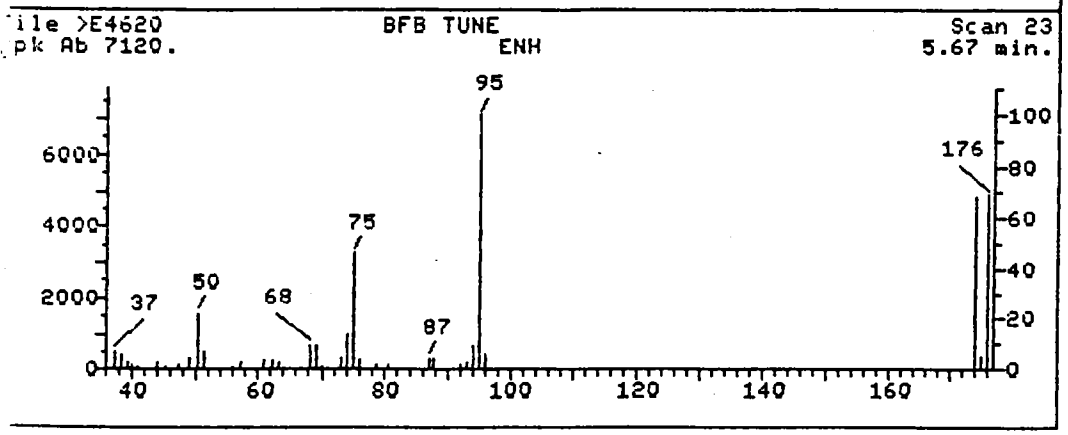
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	22.16	22.16	Ok
75	30-60% of mass 95	45.98	45.98	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.10	6.10	Ok
173	Less than 2% of mass 174	.33	.48	Ok
174	Greater than 50% of mass 95	68.06	68.06	Ok
175	5-9% of mass 174	5.15	7.57	Ok
176	95-101% of mass 174	68.66	100.89	Ok
177	5-9% of mass 176	3.96	5.77	Ok

Injection Date: 05/15/95
Injection Time: 12:51
Data File: >E4620
Scan: 23





Sb02/5

000069

>E4620 BFB TUNE
23 ENH

File: >E4620 Scan #: 23 Retn. time: 5.67

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	51.67	49.05	315.33	68.05	682.33	78.95	138.67	94.05	653.33
37.10	502.67	50.05	1577.67	69.05	699.00	79.95	26.00	95.05	7119.67
38.10	426.67	51.05	484.67	70.05	54.00	80.95	159.33	96.05	434.00
39.10	186.67	55.95	89.33	73.05	315.67	81.95	22.00	173.00	23.33
40.00	130.67	57.05	202.67	74.05	984.67	87.05	327.00	174.00	4845.33
41.00	75.33	60.95	275.67	75.05	3273.67	87.95	315.33	175.00	366.67
44.00	186.67	62.05	276.33	76.05	280.00	92.05	129.67	176.00	4888.33
45.10	76.67	63.05	164.67	77.95	44.33	93.05	175.33	177.00	282.00
47.10	152.67								

5A

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

ab Name:VERITECH Contract: -----

ab File ID: >E4634 BFB Injection date: 5/16/95

nstrument ID: MSD_1 BFB Injection time: 13:13

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15-40% of mass 95	20.0
75	30-60% of mass 95	44.5
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	.4(.5)1
174	Greater than 50.0% of mass 95	78.9
175	5.0 - 9.0% of mass 174	5.7(7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	77.0(97.5)1
177	5.0 - 9.0% of mass 176	5.1(6.6)2

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

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

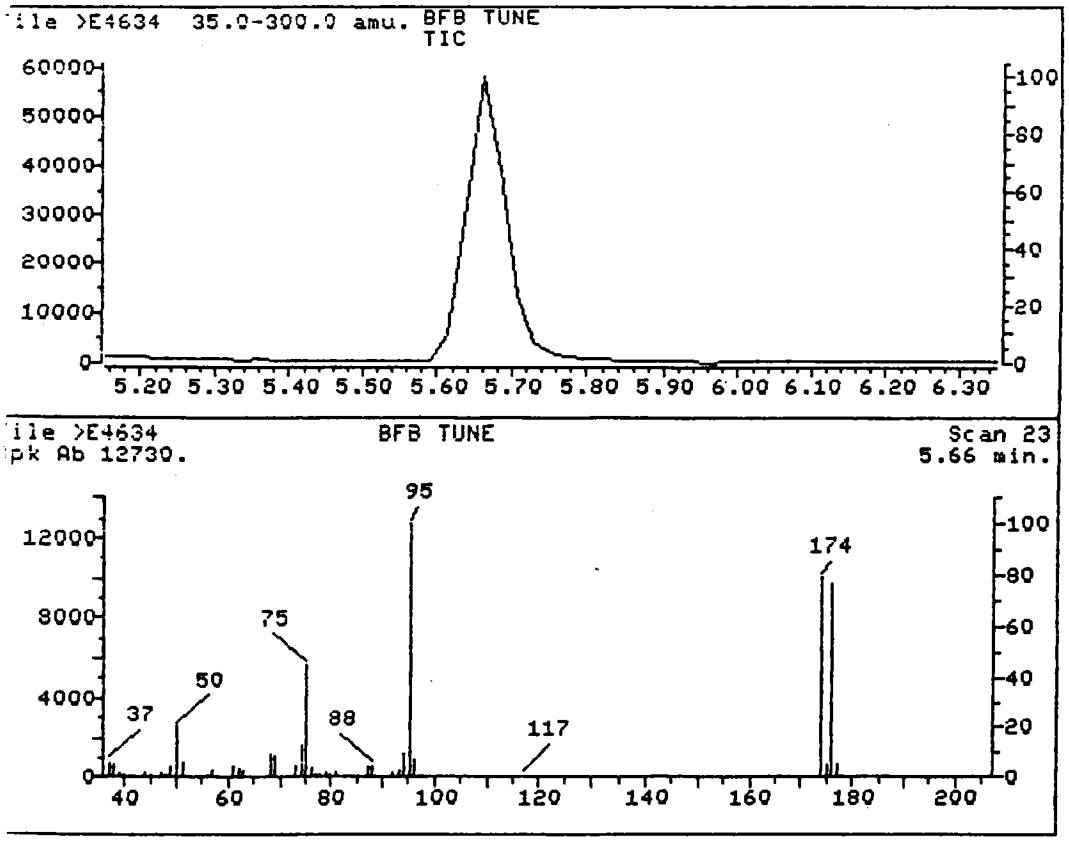
	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	DAILY CAL(A)	>E4635	5/16/95	13:43
2	----------	DAILY CAL(S)	>E4636	5/16/95	14:14
3	----------	DAILY BLK(A)	>E4637	5/16/95	15:02
4	----------	AA30483TCLP	>E4638	5/16/95	15:32
5	----------	AA30485TCLP	>E4639	5/16/95	16:07
6	----------	AA30486TCLP	>E4640	5/16/95	16:42
7	----------	DAILY BLK(S)	>E4641	5/16/95	17:17
8	----------	AA30483TCLP	>E4642	5/16/95	17:47
9	----------	AA30485TCLP	>E4643	5/16/95	18:24
10	----------	AA30486TCLP	>E4644	5/16/95	19:00
11	----------	AA30513	>E4645	5/16/95	19:36
12	----------	AA30483MS	>E4646	5/16/95	20:12
13	----------	AA30483MSD	>E4647	5/16/95	20:49
14	----------	WMB-SPK	>E4648	5/16/95	21:25

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	20.05	20.05	Ok
75	30-60% of mass 95	44.49	44.49	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.68	6.68	Ok
173	Less than 2% of mass 174	.42	.53	Ok
174	Greater than 50% of mass 95	78.93	78.93	Ok
175	5-9% of mass 174	5.66	7.18	Ok
176	95-101% of mass 174	76.99	97.54	Ok
177	5-9% of mass 176	5.09	6.61	Ok

Injection Date: 05/16/95
Injection Time: 13:13
Data File: >E4634
Scan: 23



G 6/02/95

>E4634 BFB TUNE
23

File: >E4634 Scan #: 23 Retn. time: 5.66

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	185.0	48.95	552.0	69.05	1094.0	79.95	99.0	96.05	851.0
37.00	795.0	50.05	2552.0	73.05	509.0	80.95	238.0	116.95	70.0
38.10	677.0	51.05	747.0	74.05	1659.0	87.05	592.0	172.90	53.0
39.10	246.0	55.95	169.0	75.05	5664.0	88.05	600.0	174.00	10048.0
40.00	134.0	57.05	313.0	76.05	488.0	91.95	236.0	175.00	721.0
44.00	215.0	60.95	511.0	77.05	123.0	93.05	390.0	176.00	9801.0
45.10	148.0	62.05	505.0	78.05	91.0	94.05	1203.0	177.00	648.0
47.10	225.0	63.05	390.0	78.95	252.0	95.05	12730.0	207.10	96.0
48.00	97.0	68.05	1166.0						

Initial Calibration Data

Lab: Veritech
Cal Type: CAL FOR WATER

Instrument ID: MSD_1
Calibration Date: 04/27/95

Minimum Avg RF for SPCC is: .300

Maximum %RSD for CCC is: 30

Laboratory ID:	>E4467	>E4468	>E4469	>E4470	>E4471					
	RF	RF	RF	RF	RF					
Compound	10.0	20.0	50.0	100.0	200.0	$RT	$RF	$RSD	*/**	Optional Cal Curve
loromethane	1.305	1.058	1.027	.9856	.9575	3.067	1.066	12.997	**	
omomethane	.6324	.5792	.6353	.6373	.5812	3.683	.6131	4.901		
yl Chloride	1.270	1.058	1.038	1.017	.9976	3.177	1.076	10.290	*	
loroethane	.3919	.3816	.3997	.4165	.4017	3.664	.3983	3.241		
chlorofluoromethane	1.562	1.574	1.601	1.638	1.601	4.082	1.595	1.839		
Butyl Alcohol	.0378	.0395	.0389	.0378	.0400	6.412	.0388	2.510		(50.0,100.,250.,500.,1000)
hyl-t-butyl ether	1.671	1.630	1.579	1.594	1.630	6.701	1.621	2.214		
hylene Chloride	1.727	1.342	1.140	1.124	1.056	5.957	1.278	21.371		
olein	--	--	--	--	--					
ylonitrile	.0715	.1005	.1413	.1487	.1567	6.540	.1238	29.357		
tone	.1786	.1201	.1132	.1045	.1072	5.130	.1247	24.606		
bon Disulfide	3.168	3.024	3.198	3.174	3.176	5.396	3.148	2.227		
-Dichloroethene	.9366	.8806	.8870	.8906	.8667	4.992	.8923	2.956	*	
isopropyl-ether	4.340	4.166	4.287	4.360	4.328	8.052	4.296	1.805		
-Dichloroethane	2.478	2.399	2.455	2.504	2.447	7.680	2.457	1.592	**	
ns-1,2-Dichloroethene	1.433	1.327	1.357	1.362	1.300	6.600	1.356	3.693		
loroform	2.770	2.712	2.809	2.829	2.754	10.24	2.775	1.661	*	
-Dichloroethane-d4	.2919	.2819	.2859	.2820	.2894	11.44	.2862	1.558		(50.0,50.0,50.0,50.0,50.0)
-Dichloroethane	1.302	1.349	1.380	1.405	1.379	11.63	1.363	2.894		
Butanone	.2406	.2342	.2454	.2493	.2600	9.472	.2459	3.952		
,1-Trichloroethane	2.247	2.250	2.349	2.390	2.299	10.68	2.307	2.711		
bon Tetrachloride	2.338	2.326	2.436	2.502	2.412	11.10	2.403	3.028		
yl Acetate	3.480	3.294	3.236	3.484	3.554	7.928	3.409	4.009		
modichloromethane	2.858	2.850	2.971	3.029	2.994	14.19	2.940	2.778		
-Dichloropropane	.4116	.4092	.4055	.4060	.4039	13.58	.4073	.766	*	
ns-1,3-Dichloropropene	.3716	.3857	.3948	.4100	.4212	16.27	.3967	4.933		
chloroethene	.4874	.4740	.4771	.4720	.4548	13.10	.4731	2.492		
romochloromethane	.4656	.4711	.4709	.4736	.4786	17.38	.4720	1.003		
,2-Trichloroethane	.2822	.2737	.2701	.2691	.2703	16.62	.2731	1.978		
zene	.8740	.8606	.8678	.8659	.8409	11.59	.8618	1.471		
s-1,3-Dichloropropene	.5070	.5100	.5216	.5315	.5433	15.14	.5227	2.891		
Chloroethylvinylether	.1065	.1265	.1364	.1436	.1520	14.88	.1330	13.175		
omoform	.4964	.5025	.5003	.5032	.5177	20.12	.5040	1.603	**	
exanone	.1048	.1241	.1351	.1384	.1517	17.18	.1308	13.418		
ethyl-2-Pentanone	.1951	.2057	.2100	.2150	.2282	15.51	.2108	5.769		
rachloroethene	.5913	.5595	.5713	.5522	.5157	16.91	.5580	4.997		
,2,2-Tetrachloroethane	.5326	.5278	.5131	.5093	.5260	21.04	.5218	1.922	**	
uene	.6942	.6534	.6715	.6643	.6491	15.81	.6665	2.672	*	
uene d-8	1.070	1.069	1.095	1.094	1.101	15.68	1.086	1.398		(50.0,50.0,50.0,50.0,50.0)
orobenzene	1.008	.9434	.9628	.9601	.9333	18.57	.9616	2.989	**	

Indicates CCC Compound
- Avg Retention Times

** - Indicates SPCC Compound
$RF - Avg Response Factor

Units in ug/L
$RSD- Relative Standard Deviation

Initial Calibration Data

Lab: Veritech
Cal Type: CAL FOR WATER

Instrument ID: MSD_1
Calibration Date: 04/27/95

Minimum Avg RF for SPCC is: .300

Maximum %RSD for CCC is: 30

Laboratory ID:	>E4467	>E4468	>E4469	>E4470	>E4471					
	RF	RF	RF	RF	RF					
Compound	10.0	20.0	50.0	100.0	200.0	$RT	$RF	$RSD	*/**	Optional Cal Curve
hylbenzene	1.466	1.392	1.454	1.460	1.407	18.81	1.436	2.363	*	
yrene	.8637	.8270	.8631	.8264	.7751	19.81	.8310	4.364		
p-Xylenes	.5397	.5041	.5064	.4919	.4482	19.04	.4981	6.631		(20.0,40.0,100.,200.,400.)
Xylene	1.217	1.152	1.181	1.142	1.077	19.79	1.154	4.509		
omofluorobenzene	.8081	.8172	.8281	.8237	.8463	20.77	.8247	1.729		(50.0,50.0,50.0,50.0,50.0)
3-Dichlorobenzene	1.082	1.021	1.014	.9950	.9549	22.83	1.013	4.560		
4-Dichlorobenzene	1.151	1.062	1.068	1.040	.9765	23.00	1.060	5.908		
2-Dichlorobenzene	.9712	.9116	.9146	.8972	.8715	23.69	.9132	4.011		

- Indicates CCC Compound
** - Indicates SPCC Compound
Units in ug/L
T - Avg Retention Times
$RF - Avg Response Factor
$RSD- Relative Standard Deviation

FORM6 (Page 2 of 2)

Initial Calibration Data

Lab: Veritech
Cal Type: CAL FOR SOIL

Instrument ID: MSD_1
Calibration Date: 04/27/95

Minimum Avg RF for SPCC is: .300

Maximum %RSD for CCC is: 30

Laboratory ID:	>E4472	>E4473	>E4474	>E4475	>E4476					
	RF	RF	RF	RF	RF					
Compound	10.0	20.0	50.0	100.0	200.0	$RT	$RF	$RSD	*/**	Optional Cal Curve
loromethane	.8239	.8327	.8703	.7663	.7292	3.069	.8045	6.985	**	
omomethane	.2245	.2431	.2785	.2713	.2516	3.557	.2538	8.584		
nyl Chloride	.8590	.8802	.9054	.8401	.7872	3.180	.8544	5.237	*	
loroethane	.0326	.1475	.1695	.1639	.1418	3.841	.1311	42.890		
ichlorofluoromethane	.6665	.9462	.9727	.9306	.8655	4.034	.8763	14.122		
Butyl Alcohol	.1506	.1264	.1306	.1197	.1249	6.488	.1305	9.136		(50.0,100.,250.,500.,1000)
thyl-t-butyl ether	2.059	1.974	1.994	1.929	1.922	6.704	1.975	2.819		
thylene Chloride	1.299	1.143	1.011	.9459	.8867	5.936	1.057	15.653		
rolein	--	--	--	--	.0086	3.348	.0086	--		
rylonitrile	.2260	.2128	.2615	.2446	.2469	6.525	.2384	7.996		
etone	.2918	.2203	.2117	.2008	.1795	5.142	.2208	19.242		
rbon Disulfide	2.257	2.298	2.439	2.455	2.389	5.358	2.368	3.669		
1-Dichloroethene	.6580	.6612	.6845	.6670	.6324	4.953	.6606	2.842	*	
-isopropyl-ether	4.004	3.879	3.990	3.986	3.976	8.055	3.967	1.269		
1-Dichloroethane	2.040	2.021	2.068	2.079	2.019	7.655	2.046	1.339	**	
ans-1,2-Dichloroethene	1.091	1.091	1.128	1.108	1.051	6.571	1.094	2.589		
loroform	2.447	2.389	2.450	2.436	2.343	10.24	2.413	1.918	*	
2-Dichloroethane-d4	.2930	.2965	.3041	.2971	.2934	11.43	.2968	1.502		(50.0,50.0,50.0,50.0,50.0)
2-Dichloroethane	1.522	1.450	1.475	1.431	1.368	11.63	1.449	3.923		
Butanone	.5791	.4944	.5421	.5118	.5118	9.479	.5278	6.330		
1,1-Trichloroethane	1.889	1.934	1.982	1.983	1.909	10.66	1.939	2.194		
rbon Tetrachloride	1.971	1.989	2.053	2.084	1.981	11.09	2.016	2.472		
nyl Acetate	3.390	3.133	3.302	2.998	3.108	7.917	3.186	4.944		
omodichloromethane	2.708	2.679	2.822	2.826	2.751	14.19	2.757	2.393		
2-Dichloropropane	.4275	.4183	.4293	.4246	.4158	13.57	.4231	1.381	*	
ans-1,3-Dichloropropene	.4920	.4657	.4989	.5006	.5070	16.27	.4928	3.259		
ichloroethene	.4866	.4787	.4858	.4808	.4558	13.10	.4775	2.634		
bromochloromethane	.6383	.5929	.6154	.6058	.5843	17.38	.6073	3.462		
1,2-Trichloroethane	.4056	.3690	.3764	.3649	.3585	16.62	.3749	4.895		
nzene	.8599	.8486	.8586	.8501	.8250	11.58	.8484	1.652		
s-1,3-Dichloropropene	.5756	.5519	.5827	.5904	.5874	15.13	.5776	2.667		
Chloroethylvinylether	.2123	.2042	.2315	.2333	.2427	14.88	.2248	7.111		
omoform	.8477	.7532	.7938	.7694	.7501	20.13	.7828	5.131	**	
Hexanone	.3643	.3128	.3576	.3518	.3737	17.17	.3520	6.651		
Methyl-2-Pentanone	.5310	.4608	.5068	.4887	.5171	15.50	.5009	5.432		
trachloroethene	.5614	.5473	.5479	.5344	.4976	16.91	.5377	4.536		
1,2,2-Tetrachloroethane	1.008	.8537	.8829	.8403	.8519	21.05	.8874	7.808	**	
luene	.6476	.6329	.6494	.6439	.6224	15.82	.6392	1.776	*	
luene d-8	1.059	1.054	1.067	1.068	1.090	15.68	1.067	1.298		(50.0,50.0,50.0,50.0,50.0)
lorobenzene	.9909	.9364	.9570	.9605	.9227	18.56	.9535	2.724	**	

- Indicates CCC Compound ** - Indicates SPCC Compound Units in ug/L
T - Avg Retention Times $RF - Avg Response Factor $RSD- Relative Standard Deviation

Initial Calibration Data

Lab: Veritech
Cal Type: CAL FOR SOIL

Instrument ID: MSD_1
Calibration Date: 04/27/95

Minimum Avg RF for SPCC is: .300

Maximum %RSD for CCC is: 30

Laboratory ID:	>E4472	>E4473	>E4474	>E4475	>E4476					
	RF	RF	RF	RF	RF					
Compound	10.0	20.0	50.0	100.0	200.0	$RT	$RF	$RSD	*/**	Optional Cal Curve
ıylbenzene	1.401	1.358	1.399	1.413	1.308	18.81	1.376	3.122	*	
;rene	.8814	.8349	.8650	.8361	.7681	19.82	.8371	5.173		
ɔ-Xylenes	.5073	.4790	.4884	.4700	.4241	19.04	.4738	6.547		(20.0,40.0,100.,200.,400.)
⁄ylene	1.186	1.125	1.153	1.119	1.040	19.79	1.125	4.819		
ɜmofluorobenzene	.8417	.8310	.8464	.8545	.8610	20.77	.8469	1.369		(50.0,50.0,50.0,50.0,50.0)
3-Dichlorobenzene	1.127	1.020	1.051	1.025	.9539	22.83	1.035	6.027		
4-Dichlorobenzene	1.220	1.094	1.117	1.080	.9963	22.99	1.101	7.285		
2-Dichlorobenzene	1.140	.9910	1.006	.9860	.9359	23.69	1.012	7.550		

- Indicates CCC Compound
** - Indicates SPCC Compound
Units in ug/L
- Avg Retention Times
$RF - Avg Response Factor
$RSD- Relative Standard Deviation

FORM6 (Page 2 of 2)

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR WATER
File name: ^E4603

Instrument ID : MSD_1
Calibration Date: 05/12/95
Injection Time : 1355

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
loromethane	1.066	.9461	3.053	11.29	**	
omomethane	.6131	.5464	3.673	10.87		
nyl Chloride	1.076	1.002	3.191	6.92	*	
loroethane	.3983	.3787	3.673	4.91		
ichlorofluoromethane	1.595	1.463	4.087	8.28		
Butyl Alcohol	.0388	.0400	6.407	3.12		(Conc=250)
thyl-t-butyl ether	1.621	1.578	6.706	2.65		
thylene Chloride	1.278	1.284	5.947	.49		
rolein	--	--	--	--		
rylonitrile	.1238	.1518	6.522	22.63		
etone	.1247	.1236	5.121	.87		
rbon Disulfide	3.148	3.001	5.396	4.65		
1-Dichloroethene	.8923	.8569	4.983	3.97	*	
-isopropyl-ether	4.296	4.277	8.061	.44		
1-Dichloroethane	2.457	2.401	7.670	2.28	**	
ans-1,2-Dichloroethene	1.356	1.356	6.591	.00		
loroform	2.775	2.643	10.24	4.75	*	
2-Dichloroethane-d4	.2862	.2972	11.44	3.84		
2-Dichloroethane	1.363	1.265	11.62	7.17		
Butanone	.2459	.2349	9.485	4.46		
1,1-Trichloroethane	2.307	2.193	10.68	4.95		
rbon Tetrachloride	2.403	2.283	11.09	4.98		
nyl Acetate	3.409	3.581	7.923	5.02		
omodichloromethane	2.940	2.786	14.17	5.25		
2-Dichloropropane	.4073	.3869	13.57	5.00	*	
ans-1,3-Dichloropropene	.3967	.3837	16.26	3.28		
ichloroethene	.4731	.4639	13.09	1.93		
bromochloromethane	.4720	.4534	17.37	3.94		
1,2-Trichloroethane	.2731	.2648	16.61	3.02		
nzene	.8618	.8372	11.58	2.86		
s-1,3-Dichloropropene	.5227	.5096	15.14	2.50		
Chloroethylvinylether	.1330	.1285	14.86	3.39		
omoform	.5040	.5023	20.12	.34	**	
Hexanone	.1308	.1260	17.16	3.68		
Methyl-2-Pentanone	.2108	.2066	15.50	1.98		
trachloroethene	.5580	.5466	16.91	2.04		
1,2,2-Tetrachloroethane	.5218	.4995	21.04	4.26	**	
luene	.6665	.6481	15.80	2.77	*	
luene d-8	1.086	1.062	15.67	2.20		
lorobenzene	.9616	.9155	18.56	4.79	**	

· Indicates CCC compound
- Cont Cal Retention Times
IFF- %Difference from average RF

** - Indicates SPCC compound
RF - Response Factor from daily cal @ 50.00 ug/L
$RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR WATER
File name: ^E4603

Instrument ID : MSD_1
Calibration Date: 05/12/95
Injection Time : 1355

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
ylbenzene	1.436	1.382	18.79	3.76	*	
rene	.8310	.8129	19.80	2.18		
-Xylenes	.4981	.4855	19.02	2.52		(Conc=100)
ylene	1.154	1.116	19.78	3.28		
mofluorobenzene	.8247	.8164	20.77	1.00		
-Dichlorobenzene	1.013	.9863	22.81	2.68		
-Dichlorobenzene	1.060	1.032	22.99	2.57		
-Dichlorobenzene	.9132	.8866	23.68	2.91		

- Indicates CCC compound ** - Indicates SPCC compound
- Cont Cal Retention Times RF - Response Factor from daily cal @ 50.00 ug/L
FF- %Difference from average RF $RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 2 of 2)

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR SOIL
File name: ^E4604

Instrument ID : MSD_1
Calibration Date: 05/12/95
Injection Time : 1425

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
loromethane	.8045	.7277	3.055	9.54	**	
omomethane	.2538	.2271	3.560	10.53		
nyl Chloride	.8544	.7964	3.170	6.79	*	
loroethane	.1311	.1318	3.652	.55		
ichlorofluoromethane	.8763	.9130	4.020	4.19		
Butyl Alcohol	.1305	.1356	6.478	3.98		(Conc=250)
thyl-t-butyl ether	1.975	2.050	6.708	3.77		
thylene Chloride	1.057	1.094	5.926	3.48		
rolein	--	--	--	--		
rylonitrile	.2384	.2531	6.524	6.18		
etone	.2208	.2336	5.145	5.80		
rbon Disulfide	2.368	2.526	5.352	6.69		
1-Dichloroethene	.6606	.6874	4.939	4.06	*	
-isopropyl-ether	3.967	4.162	8.063	4.90		
1-Dichloroethane	2.046	2.084	7.650	1.86	**	
ans-1,2-Dichloroethene	1.094	1.149	6.570	5.05		
loroform	2.413	2.415	10.22	.08	*	
2-Dichloroethane-d4	.2968	.2994	11.44	.88		
2-Dichloroethane	1.449	1.409	11.62	2.79		
Butanone	.5278	.5439	9.464	3.04		
1,1-Trichloroethane	1.939	1.966	10.66	1.41		
rbon Tetrachloride	2.016	2.032	11.10	.81		
nyl Acetate	3.186	4.239	7.902	33.04		
omodichloromethane	2.757	2.811	14.17	1.97		
2-Dichloropropane	.4231	.4295	13.58	1.50	*	
ans-1,3-Dichloropropene	.4928	.5043	16.27	2.32		
ichloroethene	.4775	.4711	13.09	1.35		
bromochloromethane	.6073	.6046	17.37	.46		
1,2-Trichloroethane	.3749	.3768	16.61	.52		
nzene	.8484	.8503	11.58	.22		
s-1,3-Dichloropropene	.5776	.5925	15.14	2.57		
Chloroethylvinylether	.2248	.2215	14.89	1.48		
omoform	.7828	.7986	20.13	2.02	**	
Hexanone	.3520	.3616	17.16	2.71		
Methyl-2-Pentanone	.5009	.5141	15.51	2.64		
trachloroethene	.5377	.5353	16.91	.45		
1,2,2-Tetrachloroethane	.8874	.8736	21.05	1.55	**	
luene	.6392	.6414	15.81	.33	*	
luene d-8	1.067	1.056	15.67	1.06		
lorobenzene	.9535	.9333	18.56	2.12	**	

- Indicates CCC compound
** - Indicates SPCC compound
- Cont Cal Retention Times
RF - Response Factor from daily cal @ 50.00 ug/L
IFF- %Difference from average RF
$RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR SOIL
File name: ^E4604

Instrument ID : MSD_1
Calibration Date: 05/12/95
Injection Time : 1425

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
ylbenzene	1.376	1.376	18.79	.01	*	
yrene	.8371	.8381	19.80	.12		
o-Xylenes	.4738	.4840	19.02	2.17		(Conc=100)
Xylene	1.125	1.125	19.78	.00		
omofluorobenzene	.8469	.8494	20.77	.30		
3-Dichlorobenzene	1.035	1.013	22.81	2.13		
4-Dichlorobenzene	1.101	1.075	23.00	2.42		
2-Dichlorobenzene	1.012	.9875	23.69	2.41		

- Indicates CCC compound
** - Indicates SPCC compound
- Cont Cal Retention Times
RF - Response Factor from daily cal @ 50.00 ug/L
DIFF- %Difference from average RF
$RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 2 of 2)

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR WATER
File name: ^E4621

Instrument ID : MSD_1
Calibration Date: 05/15/95
Injection Time : 1321

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
loromethane	1.066	1.280	3.075	20.05	**	
omomethane	.6131	.6199	3.672	1.12		
nyl Chloride	1.076	1.232	3.189	14.50	*	
loroethane	.3983	.4181	3.672	4.98		
ichlorofluoromethane	1.595	1.538	4.085	3.57		
Butyl Alcohol	.0388	.0417	6.405	7.45		(Conc=250)
thyl-t-butyl ether	1.621	1.629	6.681	.54		
thylene Chloride	1.278	1.185	5.946	7.24		
rolein	--	--	--	--		
rylonitrile	.1238	.1510	6.520	22.04		
etone	.1247	.1337	5.119	7.17		
rbon Disulfide	3.148	3.065	5.395	2.65		
1-Dichloroethene	.8923	.8857	4.981	.74	*	
-isopropyl-ether	4.296	4.347	8.036	1.18		
1-Dichloroethane	2.457	2.418	7.669	1.57	**	
ans-1,2-Dichloroethene	1.356	1.395	6.589	2.90		
loroform	2.775	2.682	10.22	3.34	*	
2-Dichloroethane-d4	.2862	.2952	11.44	3.13		
2-Dichloroethane	1.363	1.293	11.62	5.10		
Butanone	.2459	.2516	9.460	2.30		
1,1-Trichloroethane	2.307	2.219	10.68	3.84		
rbon Tetrachloride	2.403	2.306	11.09	4.01		
nyl Acetate	3.409	3.616	7.922	6.05		
omodichloromethane	2.940	2.821	14.17	4.07		
2-Dichloropropane	.4073	.3984	13.57	2.17	*	
ans-1,3-Dichloropropene	.3967	.3971	16.26	.10		
ichloroethene	.4731	.4735	13.09	.09		
romochloromethane	.4720	.4716	17.36	.08		
1,2-Trichloroethane	.2731	.2733	16.61	.09		
nzene	.8618	.8615	11.57	.04		
s-1,3-Dichloropropene	.5227	.5211	15.13	.30		
Chloroethylvinylether	.1330	.1327	14.86	.22		
omoform	.5040	.5261	20.12	4.39	**	
Hexanone	.1308	.1341	17.16	2.46		
Methyl-2-Pentanone	.2108	.2112	15.48	.18		
rachloroethene	.5580	.5583	16.90	.05		
1,2,2-Tetrachloroethane	.5218	.5234	21.04	.31	**	
uene	.6665	.6561	15.80	1.57	*	
uene d-8	1.086	1.074	15.66	1.08		
lorobenzene	.9616	.9460	18.56	1.62	**	

Indicates CCC compound ** - Indicates SPCC compound
- Cont Cal Retention Times RF - Response Factor from daily cal @ 50.00 ug/L
IFF- %Difference from average RF $RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 1 of 2)

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR WATER
File name: ^E4621

Instrument ID : MSD_1
Calibration Date: 05/15/95
Injection Time : 1321

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
ylbenzene	1.436	1.419	18.79	1.19	*	
yrene	.8310	.8412	19.80	1.22		
p-Xylenes	.4981	.4980	19.02	.02		(Conc=100)
Xylene	1.154	1.150	19.78	.34		
omofluorobenzene	.8247	.8175	20.76	.87		
3-Dichlorobenzene	1.013	1.027	22.83	1.35		
4-Dichlorobenzene	1.060	1.088	22.99	2.70		
2-Dichlorobenzene	.9132	.9381	23.68	2.73		

- Indicates CCC compound
** - Indicates SPCC compound
- Cont Cal Retention Times
RF - Response Factor from daily cal @ 50.00 ug/L
IFF- %Difference from average RF
$RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 2 of 2)

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR SOIL
File name: ^E4622

Instrument ID : MSD_1
Calibration Date: 05/15/95
Injection Time : 1351

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
loromethane	.8045	.9306	3.033	15.68	**	
omomethane	.2538	.2465	3.561	2.88		
nyl Chloride	.8544	.9223	3.171	7.94	*	
loroethane	.1311	.1487	3.653	13.43		
ichlorofluoromethane	.8763	.8960	4.021	2.24		
Butyl Alcohol	.1305	.1317	6.478	.95		(Conc=250)
thyl-t-butyl ether	1.975	1.966	6.708	.47		
thylene Chloride	1.057	1.079	5.927	2.02		
rolein	--	--	--	--		
rylonitrile	.2384	.2537	6.524	6.46		
etone	.2208	.2334	5.146	5.71		
rbon Disulfide	2.368	2.410	5.353	1.77		
1-Dichloroethene	.6606	.6643	4.939	.56	*	
-isopropyl-ether	3.967	4.018	8.064	1.27		
1-Dichloroethane	2.046	2.038	7.650	.35	**	
ans-1,2-Dichloroethene	1.094	1.119	6.570	2.26		
loroform	2.413	2.377	10.22	1.48	*	
2-Dichloroethane-d4	.2968	.3058	11.44	3.04		
2-Dichloroethane	1.449	1.409	11.62	2.77		
Butanone	.5278	.5496	9.465	4.13		
1,1-Trichloroethane	1.939	1.933	10.66	.32		
rbon Tetrachloride	2.016	2.006	11.10	.47		
nyl Acetate	3.186	3.990	7.903	25.21		
omodichloromethane	2.757	2.747	14.17	.37		
2-Dichloropropane	.4231	.4220	13.58	.27	*	
ans-1,3-Dichloropropene	.4928	.4990	16.27	1.26		
ichloroethene	.4775	.4651	13.09	2.60		
bromochloromethane	.6073	.6085	17.37	.20		
1,2-Trichloroethane	.3749	.3721	16.61	.75		
nzene	.8484	.8442	11.58	.49		
s-1,3-Dichloropropene	.5776	.5814	15.14	.66		
Chloroethylvinylether	.2248	.2171	14.86	3.44		
omoform	.7828	.8090	20.13	3.35	**	
Hexanone	.3520	.3589	17.16	1.94		
ethyl-2-Pentanone	.5009	.5080	15.51	1.43		
rachloroethene	.5377	.5310	16.91	1.26		
1,2,2-Tetrachloroethane	.8874	.8727	21.05	1.65	**	
luene	.6392	.6329	15.81	.99	*	
uene d-8	1.067	1.049	15.67	1.75		
lorobenzene	.9535	.9370	18.56	1.73	**	

Indicates CCC compound ** - Indicates SPCC compound
- Cont Cal Retention Times RF - Response Factor from daily cal @ 50.00 ug/L
IFF- %Difference from average RF $RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 1 of 2)

Continuing Calibration Data

Lab : Veritech Instrument ID : MSD_1
Cal Type : CAL FOR SOIL Calibration Date: 05/15/95
File name: ^E4622 Injection Time : 1351

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
ylbenzene	1.376	1.363	18.82	.94	*	
yrene	.8371	.8478	19.80	1.27		
o-Xylenes	.4738	.4766	19.05	.60		(Conc=100)
Xylene	1.125	1.117	19.78	.69		
omofluorobenzene	.8469	.8579	20.77	1.30		
3-Dichlorobenzene	1.035	1.021	22.81	1.39		
4-Dichlorobenzene	1.101	1.086	23.00	1.41		
2-Dichlorobenzene	1.012	.9872	23.69	2.44		

- Indicates CCC compound ** - Indicates SPCC compound
- Cont Cal Retention Times RF - Response Factor from daily cal @ 50.00 ug/L
DIFF- %Difference from average RF $RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 2 of 2)

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR SOIL
File name: ^E4636

Instrument ID : MSD_1
Calibration Date: 05/16/95
Injection Time : 1414

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
loromethane	.8045	.8541	3.080	6.17	**	
omomethane	.2538	.2422	3.562	4.58		
nyl Chloride	.8544	.8522	3.172	.26	*	
loroethane	.1311	.1328	3.907	1.32		
ichlorofluoromethane	.8763	.8074	4.022	7.86		
Butyl Alcohol	.1305	.1374	6.502	5.30		(Conc=250)
thyl-t-butyl ether	1.975	1.961	6.709	.74		
thylene Chloride	1.057	1.008	5.928	4.67		
rolein	--	--	--	--		
rylonitrile	.2384	.2602	6.525	9.18		
etone	.2208	.2338	5.147	5.87		
rbon Disulfide	2.368	2.353	5.354	.61		
1-Dichloroethene	.6606	.6508	4.940	1.48	*	
-isopropyl-ether	3.967	4.002	8.065	.88		
1-Dichloroethane	2.046	2.059	7.651	.66	**	
ans-1,2-Dichloroethene	1.094	1.119	6.571	2.31		
loroform	2.413	2.401	10.22	.50	*	
2-Dichloroethane-d4	.2968	.3062	11.44	3.16		
2-Dichloroethane	1.449	1.430	11.63	1.34		
Butanone	.5278	.5692	9.489	7.84		
1,1-Trichloroethane	1.939	1.917	10.66	1.15		
rbon Tetrachloride	2.016	1.968	11.10	2.37		
nyl Acetate	3.186	3.937	7.927	23.55		
omodichloromethane	2.757	2.754	14.18	.10		
2-Dichloropropane	.4231	.4218	13.56	.31	*	
ans-1,3-Dichloropropene	.4928	.4963	16.27	.70		
ichloroethene	.4775	.4708	13.10	1.41		
bromochloromethane	.6073	.5978	17.37	1.58		
1,2-Trichloroethane	.3749	.3723	16.61	.68		
nzene	.8484	.8548	11.58	.75		
s-1,3-Dichloropropene	.5776	.5796	15.14	.34		
Chloroethylvinylether	.2248	.2237	14.86	.51		
omoform	.7828	.7813	20.10	.19	**	
Hexanone	.3520	.3590	17.16	1.99		
Methyl-2-Pentanone	.5009	.5083	15.49	1.49		
trachloroethene	.5377	.5253	16.91	2.30		
1,2,2-Tetrachloroethane	.8874	.8673	21.02	2.26	**	
luene	.6392	.6284	15.81	1.70	*	
luene d-8	1.067	1.044	15.67	2.20		
lorobenzene	.9535	.9225	18.56	3.25	**	

- Indicates CCC compound
** - Indicates SPCC compound
- Cont Cal Retention Times
RF - Response Factor from daily cal @ 50.00 ug/L
IFF- %Difference from average RF
$RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 1 of 2)

Continuing Calibration Data

Lab : Veritech
Cal Type : CAL FOR SOIL
File name: ^E4636

Instrument ID : MSD_1
Calibration Date: 05/16/95
Injection Time : 1414

Minimum RF for SPCC is: .300 Maximum % Diff for CCC is: 25

Compound	$RF	RF	RT	$DIF	*/**	
hylbenzene	1.376	1.344	18.79	2.35	*	
yrene	.8371	.8331	19.81	.48		
p-Xylenes	.4738	.4748	19.02	.23		(Conc=100)
Xylene	1.125	1.098	19.78	2.35		
omofluorobenzene	.8469	.8337	20.77	1.56		
3-Dichlorobenzene	1.035	.9853	22.82	4.84		
4-Dichlorobenzene	1.101	1.054	22.98	4.31		
2-Dichlorobenzene	1.012	.9588	23.67	5.24		

- Indicates CCC compound
** - Indicates SPCC compound
- Cont Cal Retention Times
RF - Response Factor from daily cal @ 50.00 ug/L
!FF- %Difference from average RF
$RF - Avg Response Factor from initial cal
@ - Indicates compound failed specified criteria

FORM7 (Page 2 of 2)

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Lab file ID: >E4469 Lab Sample ID: DAILY CAL(A

Date Analyzed: 04/27/95 Time Analyzed: 16:58

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	51227	9.98	216129	12.54	184988	18.51
UPPER LIMIT	102454		432258		369976	
LOWER LIMIT	25614		108064		92494	
LAB SAMPLE #						
10PPB STD	48219	9.98	200006	12.55	173475	18.52
20PPB STD	49359	9.97	203525	12.54	179954	18.51
DAILY CAL(	51227	9.98	216129	12.54	184988	18.51
100PPB STD	53232	9.97	225710	12.55	194438	18.52
200PPB STD	51589	9.96	213691	12.53	184578	18.51

IS1 (BCM) = Bromochlormethane @ 50ppb
IS2 (DFB) = 1,4-Difluorobenzene @ 50ppb
IS3 (CBZ) = Chlorobenzene-d5 @ 50ppb

UPPER LIMIT = + 100% of internal standard area of daily cal from previous daily cal.
LOWER LIMIT = -50% of internal standard area of daily cal from previous daily cal.

Column used to flag internal standard are values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Lab file ID: >E4474 Lab Sample ID: DAILY CAL(S

Date Analyzed: 04/27/95 Time Analyzed: 19:29

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	62546	9.97	227964	12.54	203288	18.51
UPPER LIMIT	125092		455928		406576	
LOWER LIMIT	31273		113982		101644	
LAB SAMPLE #						
10PPB STD	66734	9.96	238505	12.53	213325	18.51
20PPB STD	65261	9.96	234446	12.54	211270	18.51
DAILY CAL(	62546	9.97	227964	12.54	203288	18.51
100PPB STD	69671	9.95	252784	12.53	224413	18.50
200PPB STD	71192	9.97	253799	12.54	223957	18.52
BLANK	0*	0.00	0*	0.00	0*	0.00
DAILY BLK(	69909	9.97	246825	12.55	215644	18.52
AA30186	59556	9.97	207902	12.55	180603	18.52
AA30187	48606	9.98	168987	12.55	146649	18.50
AA30186MS	54438	9.96	191367	12.53	165152	18.50
AA30186MSD	54884	9.95	194938	12.52	168285	18.50
SMB-SPK	59013	9.97	203404	12.54	186667	18.52

IS1 (BCM) = Bromochlormethane @ 50ppb
IS2 (DFB) = 1,4-Difluorobenzene @ 50ppb
IS3 (CBZ) = Chlorobenzene-d5 @ 50ppb

UPPER LIMIT = + 100% of internal standard area of daily cal from previous daily cal.
LOWER LIMIT = -50% of internal standard area of daily cal from previous daily cal.

Column used to flag internal standard are values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Lab file ID: >E4582 Lab Sample ID: DAILY CAL(A

Date Analyzed: ~~05/11/95~~ 05/12/95 Time Analyzed: 13:35

SA 06/05/95

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	45844	9.97	204797	12.54	178851	18.51
UPPER LIMIT	91688		409594		357702	
LOWER LIMIT	22922		102398		89425	
LAB SAMPLE #						
DAILY CAL(	45669	9.97	191461	12.54	167354	18.51
DAILY BLK(	48430	9.97	202384	12.54	179216	18.51
DAILY BLK(	49648	9.99	209670	12.54	181202	18.51
AA30484	53545	9.97	221762	12.54	195840	18.52
AA30492	53384	9.96	225661	12.53	193436	18.51
AA30499	49349	9.97	204851	12.54	181844	18.52
AA30484TCL	48988	9.97	203421	12.54	186752	18.52
WMB-SPK	50226	9.97	206662	12.54	182996	18.51
AA30489MS	49733	9.97	203747	12.54	183839	18.52
AA30489MSD	49194	9.97	206542	12.54	181042	18.52

IS1 (BCM) = Bromochlormethane @ 50ppb
IS2 (DFB) = 1,4-Difluorobenzene @ 50ppb
IS3 (CBZ) = Chlorobenzene-d5 @ 50ppb

UPPER LIMIT = + 100% of internal standard area of daily cal from previous daily cal.
LOWER LIMIT = -50% of internal standard area of daily cal from previous daily cal.

Column used to flag internal standard are values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Lab file ID: >E4583 Lab Sample ID: DAILY CAL(S

Date Analyzed: ~~05/11/95~~ 05/12/95 Time Analyzed: 14:05

SA 6/5/95

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	55214	9.97	208723	12.54	192492	18.52
UPPER LIMIT	110428		417446		384984	
LOWER LIMIT	27607		104361		96246	
LAB SAMPLE #						
DAILY CAL(	53132	9.97	197138	12.54	178993	18.52
DAILY BLK(	54350	9.99	195632	12.54	178174	18.51
AA30462	51358	9.97	189518	12.54	169194	18.51
AA30493	48342	9.97	172550	12.54	152712	18.51
AA30458MS	49715	9.98	179955	12.53	162538	18.50
AA30458MSD	46960	9.97	168707	12.55	148379	18.50
SMB-SPK	56940	9.96	210143	12.54	186313	18.51

IS1 (BCM) = Bromochlormethane @ 50ppb
IS2 (DFB) = 1,4-Difluorobenzene @ 50ppb
IS3 (CBZ) = Chlorobenzene-d5 @ 50ppb

UPPER LIMIT = + 100% of internal standard area of daily cal from previous daily cal.
LOWER LIMIT = -50% of internal standard area of daily cal from previous daily cal.

Column used to flag internal standard are values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Lab file ID: >E4603 Lab Sample ID: DAILY CAL(A

Date Analyzed: ~~05/12/95~~ 05/15/95 Time Analyzed: 13:55

SAG 5/15/95

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	45669	9.97	191461	12.54	167354	18.51
UPPER LIMIT	91338		382922		334708	
LOWER LIMIT	22834		95730		83677	
LAB SAMPLE #						
DAILY CAL(	45465	9.97	187236	12.54	163807	18.51
DAILY BLK(	48058	9.97	202489	12.54	172243	18.52
AA30513	51602	9.95	216212	12.54	189553	18.52
AA30512	48877	9.97	199605	12.54	179920	18.52
AA30514	51376	9.97	206697	12.54	184643	18.52
DAILY BLK(	46162	9.97	187513	12.54	168598	18.51
AA30516	48681	9.97	200805	12.55	179162	18.52
AA30512	49939	9.95	207377	12.53	185560	18.50
AA30514	50312	9.97	206065	12.53	181433	18.50

IS1 (BCM) = Bromochlormethane @ 50ppb
IS2 (DFB) = 1,4-Difluorobenzene @ 50ppb
IS3 (CBZ) = Chlorobenzene-d5 @ 50ppb

UPPER LIMIT = + 100% of internal standard area of daily cal from previous daily cal.
LOWER LIMIT = -50% of internal standard area of daily cal from previous daily cal.

Column used to flag internal standard are values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERITECH, NJDEPE CERT.# 14622

Lab file ID: >E4622 Lab Sample ID: DAILY CAL(S

Date Analyzed: ~~05/15/95~~ 05/16/95 Time Analyzed: 13:51

SA 05/05/95

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	55602	9.95	203808	12.54	185622	18.52
UPPER LIMIT	111204		407616		371244	
LOWER LIMIT	27801		101904		92811	
LAB SAMPLE #						
DAILY CAL(	58850	9.97	213843	12.54	192955	18.50
DAILY BLK(	58663	9.98	207565	12.55	185990	18.50
AA30513	56347	9.98	192746	12.53	162289	18.51

IS1 (BCM) = Bromochlormethane @ 50ppb
IS2 (DFB) = 1,4-Difluorobenzene @ 50ppb
IS3 (CBZ) = Chlorobenzene-d5 @ 50ppb

UPPER LIMIT = + 100% of internal standard area of daily cal from previous daily cal.
LOWER LIMIT = -50% of internal standard area of daily cal from previous daily cal.

Column used to flag internal standard are values with an asterisk

METHOD DETECTION LIMTS FOR METHOD 8240

RUN 01/20/95

RUN AT 10PPB

FILE ==========>	^E35021	^E35031	^E35041	^E35051	^E35061	^E35071	^E35081	AVG	STDDEV	MDL
Chloromethane	6.15	6.14	6.18	5.21	5.18	5.46	4.96	5.61	.53	1.67
Bromomethane	16.24	16.37	16.51	14.73	16.04	16.48	14.90	15.89	.76	2.38
Vinyl Chloride	7.41	7.41	7.57	6.20	6.81	6.76	6.09	6.89	.60	1.88
Chloroethane	11.93	12.49	12.20	10.72	11.69	11.46	10.96	11.64	.64	2.01
Trichlorofluorometh	10.71	10.79	10.87	10.09	10.12	11.07	10.60	10.61	.37	1.18
t-Butyl Alcohol	53.71	40.30	48.65	46.62	46.34	32.20	41.75	44.22	6.90	21.70
Methyl-t-butyl ethe	11.37	10.53	11.17	10.87	10.71	10.31	10.57	10.79	.37	1.18
Methylene Chloride	15.78	14.01	14.20	14.17	13.93	13.19	13.63	14.13	.81	2.54
Acetone	21.65	18.19	25.59	13.45	12.47	10.63	10.63	16.09	5.85	18.38
Carbon Disulfide	8.48	8.48	8.69	7.69	8.00	8.41	7.81	8.22	.38	1.20
Di-isopropyl-ether	9.49	9.43	9.62	9.41	9.46	9.43	9.32	9.45	.09	.29
1,1-Dichloroethene	9.84	9.68	10.21	9.15	9.85	10.33	9.64	9.82	.39	1.23
1,1-Dichloroethane	9.59	9.69	9.99	9.57	9.59	10.03	9.79	9.75	.20	.61
Trans-1,2-Dichloroe	9.71	9.59	9.51	9.20	9.52	9.99	9.61	9.59	.24	.75
Chloroform	10.14	10.17	10.37	10.05	10.24	10.61	10.36	10.28	.19	.59
1,2-Dichloroethane	10.57	11.02	11.19	10.83	10.85	10.86	10.55	10.84	.23	.71
2-Butanone	10.16	9.58	10.85	9.47	9.88	8.51	8.68	9.59	.82	2.57
1,1,1-Trichloroetha	10.10	10.15	10.39	9.98	9.97	10.49	10.14	10.17	.20	.62
Carbon Tetrachlorid	9.66	9.67	9.81	9.51	9.39	9.95	9.80	9.68	.19	.60
Vinyl Acetate	9.14	8.85	8.95	8.84	8.84	8.12	8.28	8.72	.37	1.17
Bromodichloromethan	9.87	10.09	10.29	9.87	9.87	10.06	9.87	9.99	.16	.52
1,2-Dichloropropane	10.30	10.07	10.22	10.13	10.08	9.93	10.35	10.16	.15	.46
cis-1,3-Dichloropro	9.99	9.89	10.03	9.69	9.91	9.75	9.81	9.87	.12	.38
Trichloroethene	10.20	10.10	10.40	10.07	10.23	10.34	10.36	10.24	.13	.41
Dibromochloromethan	10.02	9.90	10.35	9.89	9.83	9.39	9.87	9.89	.28	.89
1,1,2-Trichloroetha	11.29	11.02	11.24	10.99	11.02	10.65	10.69	10.99	.24	.77
Benzene	10.18	9.80	10.02	9.94	9.92	10.03	10.24	10.02	.15	.47
Trans-1,3-Dichlorop	10.19	9.78	9.96	9.86	9.94	9.51	9.66	9.85	.22	.69
2-Chloroethylvinyle	10.25	9.84	10.28	9.76	9.84	9.10	9.74	9.83	.39	1.24
Bromoform	9.69	9.32	9.82	9.46	9.51	8.83	9.17	9.40	.33	1.04
2-Hexanone	11.13	10.15	11.38	11.01	10.63	10.56	10.47	10.76	.43	1.34
4-Methyl-2-Pentanon	12.38	9.65	10.76	10.83	10.09	9.52	9.43	10.38	1.05	3.29
Tetrachloroethene	9.75	9.82	10.09	9.84	9.82	10.06	9.90	9.90	.13	.41
1,1,2,2-Tetrachloro	11.05	11.12	12.01	12.46	12.47	10.17	11.65	11.56	.84	2.64
Toluene	9.93	10.03	10.25	10.45	10.25	10.23	10.32	10.21	.18	.55
Chlorobenzene	10.01	10.11	10.28	10.11	9.98	10.28	10.19	10.14	.12	.38
Ethylbenzene	9.99	10.15	10.37	10.28	10.20	10.27	10.38	10.23	.13	.42
Styrene	10.46	10.39	10.41	10.34	10.50	10.45	10.63	10.45	.10	.30
m&p-Xylenes	20.61	20.59	20.97	20.95	20.70	21.16	21.15	20.88	.24	.76
o-Xylene	10.58	10.39	10.71	10.69	10.70	10.75	10.87	10.67	.15	.48
1,3-Dichlorobenzene	10.01	9.91	9.95	10.04	10.14	9.63	9.81	9.93	.17	.53
1,4-Dichlorobenzene	9.92	9.99	9.93	10.00	10.20	9.60	10.02	9.95	.18	.57
1,2-Dichlorobenzene	9.88	9.96	9.98	9.89	10.12	9.57	9.78	9.88	.17	.55