APPENDIX B

SVE Treatment System Laboratory Analytical Results and Well Optimization Curves

TABLE B-1
TIME TO CLEAN UP 500 PORE VOLUMES
BRC FORMER C-6 FACILITY, BUILDING 2 SVE SYSTEM
LOS ANGELES, CALIFORNIA

Well	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Screen Length (ft)	R.O.I. (ft)	Radius Squared	Volume of Soil (ft^3)	Effective Porosity (%)	Pore Volume (ft^3)	500 Pore Volumes (ft^3)		Max Flow Rate (ft^3/min)	Sum of Flow Rates (ft^3/min)
1-VEW-1A	15	30	15	30	900	42,412	0.20	8,482	4,241,150		22.5	22.5
1-VEW-1B	50	65	15	30	900	42,412	0.20	8,482	4,241,150		22.5	22.5
1-VEW-2	35	65	30	30	900	84,823	0.20	16,965	8,482,300		45	90
1-VEW-3A	20	30	10	30	900	28,274	0.20	5,655	2,827,433		15	105
1-VEW-3B	50	65	15	30	900	42,412	0.20	8,482	4,241,150		22.5	105
1-VEW-4	30	65	35	30	900	98,960	0.20	19,792	9,896,017		52.5	180
1-VEW-5	30	65	35	30	900	98,960	0.20	19,792	9,896,017		52.5	232.5
1-VEW-6	30	65	35	30	900	98,960	0.20	19,792	9,896,017		52.5	285
1-VEW-7A	20	30	10	30	900	28,274	0.20	5,655	2,827,433		15	300
1-VEW-7B	50	65	15	30	900	42,412	0.20	8,482	4,241,150		22.5	300
1-VEW-8A	20	30	10	30	900	28,274	0.20	5,655	2,827,433		15	337.5
1-VEW-8B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	367.5
1-VEW-9	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	397.5
1-VEW-10A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	427.5
1-VEW-10B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	457.5
1-VEW-11A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	487.5
1-VEW-11B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	517.5
1-VEW-12	15	65	50	30	900	141,372	0.20	28,274	14,137,167		75	592.5
1-VEW-13A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	622.5
1-VEW-13B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	630
1-VEW-14A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	682.5
1-VEW-14B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	690
1-VEW-15A	15	35	20	30	900	56,549	0.20	11,310	5,654,867		30	742.5
1-VEW-15B	45	65	20	30	900	56,549	0.20	11,310	5,654,867		30	772.5
TOTALS									**145,612,819**	**cubic feet**	**772.5**	

System can pull a maximum of	**400**	**acfm**
Time to clean up operating at max flow	**364,032**	**minutes**
	253	**days**
System modification to a maximum flow	**800**	**acfm**
Actual operation time (7,600 hours)	456,000	minutes
Average flow rate	480	acfm
Approximate pore volume removed as of 11/02	**218,880,000**	
Number of pore volumes removed	**752**	
Percent of 500 pore volumes as of 11/02	**150.3%**	

BOE-C6-0102950

ANALYTICAL REPORT

Boeing BR C-6 Torrance HalAld

Lot #: E2I240147

Scott Zachary

Haley & Aldrich Inc

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

September 30, 2002

EXECUTIVE SUMMARY - Detection Highlights

E2I240147

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB1002_SS50_0001 09/23/02 15:30 004				
Chloroform	1.9 J	5.0	ug/kg	SW846 8260B
Trichloroethene	110	5.0	ug/kg	SW846 8260B
Tetrachloroethene	2.4 J	5.0	ug/kg	SW846 8260B
SB1003_SS50_0001 09/23/02 15:00 008				
Trichloroethene	27	5.0	ug/kg	SW846 8260B

METHODS SUMMARY

E2I240147

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E2I240147

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E8QAG	001	2_VEW_21_SS50_0001	09/23/02	10:30
E8QAT	002	SB1002_SS25_0001	09/23/02	15:00
E8QAW	003	SB1002_SS40_0001	09/23/02	15:15
E8QA0	004	SB1002_SS50_0001	09/23/02	15:30
E8QA2	005	SB1003_SS25_0001	09/23/02	14:45
E8QA3	006	SB1003_SS30_0001	09/23/02	14:50
E8QA4	007	SB1003_SS40_0001	09/23/02	14:55
E8QA6	008	SB1003_SS50_0001	09/23/02	15:00
E8QA7	009	SB1004_SS30_0001	09/23/02	13:15
E8QA8	010	SB1004_SS40_0001	09/23/02	13:20
E8QA9	011	SB1004_SS50_0001	09/23/02	13:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_21_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-001 Work Order #...: E8QAG1AA Matrix.....: SO
Date Sampled...: 09/23/02 10:30 Date Received..: 09/23/02 19:45 MS Run #.....: 2270268
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 18:36
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_21_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-001 Work Order #...: E8QAG1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	106	(70 - 130)

HALEY & ALDRICH INC

2_VEW_21_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-001 **Work Order #:** E8QAG1AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1002_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-002 Work Order #...: E8QAT1AA Matrix.....: SO
Date Sampled...: 09/23/02 15:00 Date Received..: 09/23/02 19:45 MS Run #.....: 2270268
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 19:06
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1002_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-002 Work Order #...: E8QAT1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	90	(60 - 140)
Toluene-d8	109	(70 - 130)

HALEY & ALDRICH INC

SB1002_SS25_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-002 **Work Order #:** E8QAT1AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1002_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-003 Work Order #...: E8QAW1AA Matrix.....: SO
Date Sampled...: 09/23/02 15:15 Date Received..: 09/23/02 19:45 MS Run #.....: 2270268
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 19:37
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1002_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-003 **Work Order #...:** E8QAW1AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(65 - 135)
1,2-Dichloroethane-d4	89	(60 - 140)
Toluene-d8	101	(70 - 130)

HALEY & ALDRICH INC

SB1002_SS40_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-003 **Work Order #:** E8QAW1AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1002_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-004 Work Order #...: E8QA01AA Matrix.....: SO
Date Sampled...: 09/23/02 15:30 Date Received..: 09/23/02 19:45 MS Run #.....: 2271035
Prep Date.....: 09/27/02 Analysis Date..: 09/27/02
Prep Batch #...: 2271149 Analysis Time..: 16:14
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	**1.9 J**	**5.0**	**ug/kg**	**1.0**
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**110**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1002_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-004 Work Order #...: E8QA01AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	**2.4 J**	**5.0**	**ug/kg**	**2.0**
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	114	(65 - 135)
1,2-Dichloroethane-d4	81	(60 - 140)
Toluene-d8	110	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

SB1002_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-004 **Work Order #:** E8QA01AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-005 Work Order #...: E8QA21AA Matrix.....: SO
Date Sampled...: 09/23/02 14:45 Date Received..: 09/23/02 19:45 MS Run #.....: 2270268
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 20:38
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS25_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-005 Work Order #...: E8QA21AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(65 - 135)
1,2-Dichloroethane-d4	88	(60 - 140)
Toluene-d8	106	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS25_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-005 **Work Order #:** E8QA21AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-006 Work Order #...: E8QA31AA Matrix.....: SO
Date Sampled...: 09/23/02 14:50 Date Received..: 09/23/02 19:45 MS Run #.....: 2270268
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 21:08
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-006 **Work Order #...:** E8QA31AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(65 - 135)
1,2-Dichloroethane-d4	81	(60 - 140)
Toluene-d8	100	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS30_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-006 **Work Order #:** E8QA31AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-007 Work Order #...: E8QA41AA Matrix.....: SO
Date Sampled...: 09/23/02 14:55 Date Received..: 09/23/02 19:45 MS Run #.....: 2270268
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 21:39
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-007 **Work Order #...:** E8QA41AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
1,2-Dichloroethane-d4	90	(60 - 140)
Toluene-d8	107	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS40_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-007 **Work Order #:** E8QA41AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1003_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-008 Work Order #...: E8QA61AA Matrix.....: SO
Date Sampled...: 09/23/02 15:00 Date Received..: 09/23/02 19:45 MS Run #.....: 2270268
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 22:09
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**27**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1003_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-008 **Work Order #...:** E8QA61AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(65 - 135)
1,2-Dichloroethane-d4	90	(60 - 140)
Toluene-d8	110	(70 - 130)

HALEY & ALDRICH INC

SB1003_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-008 **Work Order #:** E8QA61AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1004_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-009 **Work Order #...:** E8QA71AA **Matrix.....:** SO
Date Sampled...: 09/23/02 13:15 **Date Received..:** 09/23/02 19:45 **MS Run #.....:** 2270268
Prep Date.....: 09/26/02 **Analysis Date..:** 09/26/02
Prep Batch #...: 2270530 **Analysis Time..:** 22:39
Dilution Factor: 1
Analyst ID.....: 064667 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1004_SS30_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-009 **Work Order #...:** E8QA71AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(65 - 135)
1,2-Dichloroethane-d4	85	(60 - 140)
Toluene-d8	97	(70 - 130)

HALEY & ALDRICH INC

SB1004_SS30_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-009 **Work Order #:** E8QA71AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1004_SS40_0001

GC/MS Volatiles

Lot-Sample #...:	E2I240147-010	**Work Order #...:**	E8QA81AA	**Matrix.....:**	SO
Date Sampled...:	09/23/02 13:20	**Date Received..:**	09/23/02 19:45	**MS Run #.....:**	2270268
Prep Date.....:	09/26/02	**Analysis Date..:**	09/26/02		
Prep Batch #...:	2270530	**Analysis Time..:**	23:10		
Dilution Factor:	1				
Analyst ID.....:	064667	**Instrument ID..:**	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1004_SS40_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-010 **Work Order #...:** E8QA81AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(65 - 135)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	106	(70 - 130)

HALEY & ALDRICH INC

SB1004_SS40_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-010 **Work Order #:** E8QA81AA **Matrix:** SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1004_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-011 Work Order #...: E8QA91AA Matrix.....: SO
Date Sampled...: 09/23/02 13:25 Date Received..: 09/23/02 19:45 MS Run #.....: 2271035
Prep Date.....: 09/27/02 Analysis Date..: 09/27/02
Prep Batch #...: 2271149 Analysis Time..: 16:49
Dilution Factor: 1
Analyst ID.....: 064667 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1004_SS50_0001

GC/MS Volatiles

Lot-Sample #...: E2I240147-011 Work Order #...: E8QA91AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(65 - 135)
1,2-Dichloroethane-d4	83	(60 - 140)
Toluene-d8	105	(70 - 130)

HALEY & ALDRICH INC

SB1004_SS50_0001

GC/MS Volatiles

Lot-Sample #: E2I240147-011 Work Order #: E8QA91AA Matrix: SO

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

QC DATA ASSOCIATION SUMMARY

E2I240147

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	SW846 8260B		2270530	2270268
002	SO	SW846 8260B		2270530	2270268
003	SO	SW846 8260B		2270530	2270268
004	SO	SW846 8260B		2271149	2271035
005	SO	SW846 8260B		2270530	2270268
006	SO	SW846 8260B		2270530	2270268
007	SO	SW846 8260B		2270530	2270268
008	SO	SW846 8260B		2270530	2270268
009	SO	SW846 8260B		2270530	2270268
010	SO	SW846 8260B		2270530	2270268
011	SO	SW846 8260B		2271149	2271035

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147
MB Lot-Sample #: E2I270000-530

Analysis Date..: 09/26/02
Dilution Factor: 1

Work Order #...: E829W1AA

Prep Date.....: 09/26/02
Prep Batch #...: 2270530

Analyst ID.....: 064667

Matrix.....: SOLID

Analysis Time..: 13:06
Instrument ID..: MSD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 **Work Order #...:** E829W1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(65 - 135)
1,2-Dichloroethane-d4	75	(60 - 140)
Toluene-d8	91	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2I270000-530 B **Work Order #:** E829W1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147
MB Lot-Sample #: E2I280000-149

Analysis Date..: 09/27/02
Dilution Factor: 1

Work Order #...: E83581AA

Prep Date.....: 09/27/02
Prep Batch #...: 2271149

Analyst ID.....: 064667

Matrix.....: SOLID

Analysis Time..: 14:41
Instrument ID..: MSD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 **Work Order #...:** E83581AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	115	(65 - 135)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	108	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2I280000-149 B **Work Order #:** E83581AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 Work Order #...: E829W1AC Matrix.....: SOLID
LCS Lot-Sample#: E2I270000-530
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 13:36
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 064667

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**100**	**(65 - 150)**	**SW846 8260B**
Benzene	**95**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**90**	**(70 - 135)**	**SW846 8260B**
Toluene	**111**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**108**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	110	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 Work Order #...: E829W1AC Matrix.....: SOLID
LCS Lot-Sample#: E2I270000-530
Prep Date.....: 09/26/02 Analysis Date..: 09/26/02
Prep Batch #...: 2270530 Analysis Time..: 13:36
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 064667

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	49.8	ug/kg	100	SW846 8260B
Benzene	50.0	47.6	ug/kg	95	SW846 8260B
Trichloroethene	50.0	44.9	ug/kg	90	SW846 8260B
Toluene	50.0	55.3	ug/kg	111	SW846 8260B
Chlorobenzene	50.0	54.0	ug/kg	108	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	110	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 Work Order #...: E83581AC Matrix.....: SOLID
LCS Lot-Sample#: E2I280000-149
Prep Date.....: 09/27/02 Analysis Date..: 09/27/02
Prep Batch #...: 2271149 Analysis Time..: 15:21
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 064667

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**105**	**(65 - 150)**	**SW846 8260B**
Benzene	**97**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**92**	**(70 - 135)**	**SW846 8260B**
Toluene	**116**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**113**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(65 - 135)
1,2-Dichloroethane-d4	86	(60 - 140)
Toluene-d8	110	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2I240147 Work Order #...: E83581AC Matrix.....: SOLID
LCS Lot-Sample#: E2I280000-149
Prep Date.....: 09/27/02 Analysis Date..: 09/27/02
Prep Batch #...: 2271149 Analysis Time..: 15:21
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 064667

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	52.6	ug/kg	105	SW846 8260B
Benzene	50.0	48.3	ug/kg	97	SW846 8260B
Trichloroethene	50.0	46.1	ug/kg	92	SW846 8260B
Toluene	50.0	58.2	ug/kg	116	SW846 8260B
Chlorobenzene	50.0	56.6	ug/kg	113	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(65 - 135)
1,2-Dichloroethane-d4	86	(60 - 140)
Toluene-d8	110	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E2I240147	Work Order #...:	E8PML1AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2I230242-001		E8PML1AD-MSD		
Date Sampled...:	09/23/02 09:40	Date Received..:	09/23/02 16:30	MS Run #.....:	2270268
Prep Date.....:	09/26/02	Analysis Date..:	09/26/02		
Prep Batch #...:	2270530	Analysis Time..:	17:35		
Dilution Factor:	1	Analyst ID.....:	064667	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**98**	**(65 - 150)**			**SW846 8260B**
	101	**(65 - 150)**	3.0	(0-30)	**SW846 8260B**
Benzene	**96**	**(70 - 130)**			**SW846 8260B**
	97	**(70 - 130)**	0.58	(0-30)	**SW846 8260B**
Trichloroethene	**93**	**(70 - 135)**			**SW846 8260B**
	92	**(70 - 135)**	0.36	(0-30)	**SW846 8260B**
Toluene	**108**	**(70 - 130)**			**SW846 8260B**
	105	**(70 - 130)**	2.4	(0-30)	**SW846 8260B**
Chlorobenzene	**107**	**(70 - 130)**			**SW846 8260B**
	104	**(70 - 130)**	2.4	(0-30)	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
	107	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
	92	(60 - 140)
Toluene-d8	105	(70 - 130)
	103	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2I240147	Work Order #...:	E8PML1AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2I230242-001		E8PML1AD-MSD		
Date Sampled...:	09/23/02 09:40	Date Received..:	09/23/02 16:30	MS Run #.....:	2270268
Prep Date.....:	09/26/02	Analysis Date..:	09/26/02		
Prep Batch #...:	2270530	Analysis Time..:	17:35		
Dilution Factor:	1	Analyst ID.....:	064667	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	49.2	ug/kg	98		SW846 8260B
	ND	50.0	50.7	ug/kg	101	3.0	SW846 8260B
Benzene	ND	50.0	48.1	ug/kg	96		SW846 8260B
	ND	50.0	48.4	ug/kg	97	0.58	SW846 8260B
Trichloroethene	ND	50.0	46.4	ug/kg	93		SW846 8260B
	ND	50.0	46.2	ug/kg	92	0.36	SW846 8260B
Toluene	ND	50.0	54.0	ug/kg	108		SW846 8260B
	ND	50.0	52.7	ug/kg	105	2.4	SW846 8260B
Chlorobenzene	ND	50.0	53.3	ug/kg	107		SW846 8260B
	ND	50.0	52.0	ug/kg	104	2.4	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(65 - 135)
	107	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
	92	(60 - 140)
Toluene-d8	105	(70 - 130)
	103	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E2I240147	Work Order #...:	E8RJH1AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2I240296-001		E8RJH1AD-MSD		
Date Sampled...:	09/24/02 08:35	Date Received..:	09/24/02 13:40	MS Run #.....:	2271035
Prep Date.....:	09/27/02	Analysis Date..:	09/27/02		
Prep Batch #...:	2271149	Analysis Time..:	17:50		
Dilution Factor:	1	Analyst ID.....:	064667	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	101	(65 - 150)			SW846 8260B
	103	(65 - 150)	2.2	(0-30)	SW846 8260B
Benzene	96	(70 - 130)			SW846 8260B
	95	(70 - 130)	1.5	(0-30)	SW846 8260B
Trichloroethene	92	(70 - 135)			SW846 8260B
	93	(70 - 135)	0.91	(0-30)	SW846 8260B
Toluene	113	(70 - 130)			SW846 8260B
	113	(70 - 130)	0.42	(0-30)	SW846 8260B
Chlorobenzene	111	(70 - 130)			SW846 8260B
	110	(70 - 130)	0.78	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(65 - 135)
	103	(65 - 135)
1,2-Dichloroethane-d4	89	(60 - 140)
	87	(60 - 140)
Toluene-d8	100	(70 - 130)
	100	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2I240147	Work Order #...:	E8RJH1AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2I240296-001		E8RJH1AD-MSD		
Date Sampled...:	09/24/02 08:35	Date Received..:	09/24/02 13:40	MS Run #.....:	2271035
Prep Date.....:	09/27/02	Analysis Date..:	09/27/02		
Prep Batch #...:	2271149	Analysis Time..:	17:50		
Dilution Factor:	1	Analyst ID.....:	064667	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	50.6	ug/kg	101		SW846 8260B
	ND	50.0	51.7	ug/kg	103	2.2	SW846 8260B
Benzene	ND	50.0	48.2	ug/kg	96		SW846 8260B
	ND	50.0	47.5	ug/kg	95	1.5	SW846 8260B
Trichloroethene	ND	50.0	45.9	ug/kg	92		SW846 8260B
	ND	50.0	46.3	ug/kg	93	0.91	SW846 8260B
Toluene	ND	50.0	56.4	ug/kg	113		SW846 8260B
	ND	50.0	56.6	ug/kg	113	0.42	SW846 8260B
Chlorobenzene	ND	50.0	55.3	ug/kg	111		SW846 8260B
	ND	50.0	54.9	ug/kg	110	0.78	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(65 - 135)
	103	(65 - 135)
1,2-Dichloroethane-d4	89	(60 - 140)
	87	(60 - 140)
Toluene-d8	100	(70 - 130)
	100	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

ANALYTICAL REPORT

BRC C-6, Torrance HaleyAldrich

Lot #: E2H010352

Scott Zachary

Haley & Aldrich Inc

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

August 14, 2002

EXECUTIVE SUMMARY - Detection Highlights

E2H010352

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
2_VEW_20_SSC080102_0001 08/01/02 10:00 009				
1,2-Dichloroethane	1.2 J	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	4.9 J	5.0	ug/kg	SW846 8260B
SB1000_SSC080102_0001 08/01/02 09:00 012				
Trichloroethene	3.6 J	5.0	ug/kg	SW846 8260B
SB1001_SSB080102_0001 08/01/02 13:00 014				
Acetone	890 J,B	1200	ug/kg	SW846 8260B
Trichloroethene	380	250	ug/kg	SW846 8260B
Tetrachloroethene	330	250	ug/kg	SW846 8260B
Ethylbenzene	390	250	ug/kg	SW846 8260B
Xylenes (total)	1000	250	ug/kg	SW846 8260B
Isopropylbenzene	340	250	ug/kg	SW846 8260B
p-Isopropyltoluene	900	250	ug/kg	SW846 8260B
n-Propylbenzene	900	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	2600	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	7700	250	ug/kg	SW846 8260B
sec-Butylbenzene	590	250	ug/kg	SW846 8260B
n-Butylbenzene	1900	250	ug/kg	SW846 8260B
SB1001_SSC080102_0001 08/01/02 13:00 015				
Trichloroethene	7.0	5.0	ug/kg	SW846 8260B
Tetrachloroethene	2.0 J	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	3.1 J	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	7.6	5.0	ug/kg	SW846 8260B
SP39_SSA080102_0001 08/01/02 13:00 016				
C12-C13	5.2 J	10	mg/kg	SW846 8015B
C14-C15	11	10	mg/kg	SW846 8015B
C16-C17	12	10	mg/kg	SW846 8015B
C18-C19	9.6 J	10	mg/kg	SW846 8015B
C20-C23	15	10	mg/kg	SW846 8015B
C24-C27	8.6 J	10	mg/kg	SW846 8015B
C28-C31	6.6 J	10	mg/kg	SW846 8015B
C32-C35	5.4 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	73	10	mg/kg	SW846 8015B
Mercury	0.020 B	0.10	mg/kg	SW846 7471A
Aluminum	20600	20.0	mg/kg	SW846 6010B
Arsenic	6.0	1.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E2H010352

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SP39_SSA080102_0001 08/01/02 13:00 016				
Barium	125	2.0	mg/kg	SW846 6010B
Chromium	28.0	1.0	mg/kg	SW846 6010B
Beryllium	0.61	0.50	mg/kg	SW846 6010B
Lead	5.7	0.50	mg/kg	SW846 6010B
Selenium	0.56	0.50	mg/kg	SW846 6010B
Cobalt	10.2	5.0	mg/kg	SW846 6010B
Copper	26.3	2.5	mg/kg	SW846 6010B
Molybdenum	1.1 B	4.0	mg/kg	SW846 6010B
Nickel	18.3	4.0	mg/kg	SW846 6010B
Vanadium	51.2	5.0	mg/kg	SW846 6010B
Zinc	66.5	2.0	mg/kg	SW846 6010B
SP39_SSB080102_0001 08/01/02 13:00 017				
C28-C31	2.1 J	10	mg/kg	SW846 8015B
C32-C35	3.2 J	10	mg/kg	SW846 8015B
C36-C39	2.1 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	7.4 J	10	mg/kg	SW846 8015B
Mercury	0.043 B	0.10	mg/kg	SW846 7471A
Aluminum	11500	20.0	mg/kg	SW846 6010B
Arsenic	6.5	1.0	mg/kg	SW846 6010B
Barium	55.7	2.0	mg/kg	SW846 6010B
Chromium	21.7	1.0	mg/kg	SW846 6010B
Beryllium	0.39 B	0.50	mg/kg	SW846 6010B
Lead	4.0	0.50	mg/kg	SW846 6010B
Cobalt	6.1	5.0	mg/kg	SW846 6010B
Copper	13.4	2.5	mg/kg	SW846 6010B
Molybdenum	1.1 B	4.0	mg/kg	SW846 6010B
Nickel	11.5	4.0	mg/kg	SW846 6010B
Vanadium	33.0	5.0	mg/kg	SW846 6010B
Zinc	35.3	2.0	mg/kg	SW846 6010B

METHODS SUMMARY

E2H010352

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SANA AUTO-SHAKE
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E2H010352

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E5RFP	001	2_VEW_18_SSA080102_0001	08/01/02	09:00
E5RF4	002	2_VEW_18_SSB080102_0001	08/01/02	09:00
E5RGE	003	2_VEW_18_SSC080102_0001	08/01/02	09:00
E5RGF	004	2_VEW_19_SSA080102_0001	08/01/02	10:00
E5RGK	005	2_VEW_19_SSB080102_0001	08/01/02	10:00
E5RGM	006	2_VEW_19_SSC080102_0001	08/01/02	10:00
E5RGN	007	2_VEW_20_SSA080102_0001	08/01/02	10:00
E5RGQ	008	2_VEW_20_SSB080102_0001	08/01/02	10:00
E5RGR	009	2_VEW_20_SSC080102_0001	08/01/02	10:00
E5RGV	010	SB1000_SSA080102_0001	08/01/02	09:00
E5RG1	011	SB1000_SSB080102_0001	08/01/02	09:00
E5RG4	012	SB1000_SSC080102_0001	08/01/02	09:00
E5RG9	013	SB1001_SSA080102_0001	08/01/02	13:00
E5RHC	014	SB1001_SSB080102_0001	08/01/02	13:00
E5RHD	015	SB1001_SSC080102_0001	08/01/02	13:00
E5RHE	016	SP39_SSA080102_0001	08/01/02	13:00
E5RHJ	017	SP39_SSB080102_0001	08/01/02	13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-001 Work Order #...: E5RFP1AA Matrix.....: SOLID
Date Sampled...: 08/01/02 09:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2220270 Analysis Time..: 22:03
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-001 Work Order #...: E5RFP1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(65 - 135)
1,2-Dichloroethane-d4	85	(60 - 140)
Toluene-d8	88	(70 - 130)

HALEY & ALDRICH INC

2_VEW_18_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-001 Work Order #: E5RFP1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-002	**Work Order #...:**	E5RF41AA	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 09:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2218096
Prep Date.....:	08/05/02	**Analysis Date..:**	08/05/02		
Prep Batch #...:	2218248	**Analysis Time..:**	16:49		
Dilution Factor:	1				
Analyst ID.....:	999998	**Instrument ID..:**	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-002 **Work Order #...:** E5RF41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	5.7 *	(65 - 135)
1,2-Dichloroethane-d4	18 *	(60 - 140)
Toluene-d8	4.0 *	(70 - 130)

NOTE(S):

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

HALEY & ALDRICH INC

2_VEW_18_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-002 **Work Order #:** E5RF41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-003 Work Order #...: E5RGE1AA Matrix.....: SOLID
Date Sampled...: 08/01/02 09:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2220270 Analysis Time..: 20:01
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_18_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-003 **Work Order #...:** E5RGE1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	98	(70 - 130)

HALEY & ALDRICH INC

2_VEW_18_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-003 **Work Order #:** E5RGE1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-004 Work Order #...: E5RGF1AA Matrix.....: SOLID
Date Sampled...: 08/01/02 10:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2220270 Analysis Time..: 21:32
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-004 Work Order #...: E5RGF1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	92	(70 - 130)

HALEY & ALDRICH INC

2_VEW_19_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-004 **Work Order #:** E5RGF1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-005	**Work Order #...:**	E5RGK1AA	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 10:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2220107
Prep Date.....:	08/02/02	**Analysis Date..:**	08/02/02		
Prep Batch #...:	2220270	**Analysis Time..:**	22:33		
Dilution Factor:	1				
Analyst ID.....:	999998	**Instrument ID..:**	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-005 **Work Order #...:** E5RGK1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(65 - 135)
1,2-Dichloroethane-d4	93	(60 - 140)
Toluene-d8	92	(70 - 130)

HALEY & ALDRICH INC

2_VEW_19_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-005 **Work Order #:** E5RGK1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-006 Work Order #...: E5RGM1AA Matrix.....: SOLID
Date Sampled...: 08/01/02 10:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2220270 Analysis Time..: 23:04
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_19_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-006 **Work Order #...:** E5RGM1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	(65 - 135)
1,2-Dichloroethane-d4	99	(60 - 140)
Toluene-d8	91	(70 - 130)

HALEY & ALDRICH INC

2_VEW_19_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-006 **Work Order #:** E5RGM1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-007	**Work Order #...:**	E5RGN1AA	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 10:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2220089
Prep Date.....:	08/07/02	**Analysis Date..:**	08/07/02		
Prep Batch #...:	2220252	**Analysis Time..:**	12:59		
Dilution Factor:	1				
Analyst ID.....:	999998	**Instrument ID..:**	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-007 **Work Order #...:** E5RGN1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(65 - 135)
1,2-Dichloroethane-d4	75	(60 - 140)
Toluene-d8	72	(70 - 130)

HALEY & ALDRICH INC

2_VEW_20_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-007 **Work Order #:** E5RGN1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-008 Work Order #...: E5RGQ1AA Matrix.....: SOLID
Date Sampled...: 08/01/02 10:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/03/02
Prep Batch #...: 2220270 Analysis Time..: 00:04
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-008 Work Order #...: E5RGQ1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(65 - 135)
1,2-Dichloroethane-d4	103	(60 - 140)
Toluene-d8	93	(70 - 130)

HALEY & ALDRICH INC

2_VEW_20_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-008 **Work Order #:** E5RGQ1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-009	**Work Order #...:**	E5RGR1AA	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 10:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2220107
Prep Date.....:	08/02/02	**Analysis Date..:**	08/03/02		
Prep Batch #...:	2220270	**Analysis Time..:**	00:35		
Dilution Factor:	1				
Analyst ID.....:	999998	**Instrument ID..:**	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	**1.2 J**	**5.0**	**ug/kg**	**1.0**
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: 2_VEW_20_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-009 **Work Order #...:** E5RGR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	**4.9 J**	**5.0**	**ug/kg**	**3.0**
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(65 - 135)
1,2-Dichloroethane-d4	102	(60 - 140)
Toluene-d8	94	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

2_VEW_20_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-009 **Work Order #:** E5RGR1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1000_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-010	**Work Order #...:**	E5RGV1AA	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 09:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2220107
Prep Date.....:	08/02/02	**Analysis Date..:**	08/03/02		
Prep Batch #...:	2220270	**Analysis Time..:**	01:05		
Dilution Factor:	1				
Analyst ID.....:	999998	**Instrument ID..:**	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1000_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-010 **Work Order #...:** E5RGV1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
1,2-Dichloroethane-d4	99	(60 - 140)
Toluene-d8	90	(70 - 130)

HALEY & ALDRICH INC

SB1000_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-010 Work Order #: E5RGV1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1000_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-011 Work Order #...: E5RG11AA Matrix.....: SOLID
Date Sampled...: 08/01/02 09:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/03/02
Prep Batch #...: 2220270 Analysis Time..: 01:35
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1000_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-011 **Work Order #...:** E5RG11AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(65 - 135)
1,2-Dichloroethane-d4	112	(60 - 140)
Toluene-d8	94	(70 - 130)

HALEY & ALDRICH INC

SB1000_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-011 **Work Order #:** E5RG11AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1000_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-012 Work Order #...: E5RG41AA Matrix.....: SOLID
Date Sampled...: 08/01/02 09:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/03/02
Prep Batch #...: 2220270 Analysis Time..: 02:06
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**3.6 J**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1000_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-012 **Work Order #...:** E5RG41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	91	(65 - 135)
1,2-Dichloroethane-d4	110	(60 - 140)
Toluene-d8	93	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

SB1000_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-012 **Work Order #:** E5RG41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1001_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-013	**Work Order #...:**	E5RG91AA	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 13:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2220107
Prep Date.....:	08/02/02	**Analysis Date..:**	08/03/02		
Prep Batch #...:	2220270	**Analysis Time..:**	02:36		
Dilution Factor:	1				
Analyst ID.....:	999998	**Instrument ID..:**	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1001_SSA080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-013 Work Order #...: E5RG91AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(65 - 135)
1,2-Dichloroethane-d4	115	(60 - 140)
Toluene-d8	95	(70 - 130)

HALEY & ALDRICH INC

SB1001_SSA080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-013 **Work Order #:** E5RG91AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

HALEY & ALDRICH INC

Client Sample ID: SB1001_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-014	Work Order #...:	E5RHC1AA	Matrix.....:	SOLID
Date Sampled...:	08/01/02 13:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2225151
Prep Date.....:	08/06/02	Analysis Date..:	08/07/02		
Prep Batch #...:	2225371	Analysis Time..:	19:08		
Dilution Factor:	1				
Analyst ID.....:	999998	Instrument ID..:	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	500	ug/kg	170
Chloromethane	ND	500	ug/kg	200
Vinyl chloride	ND	500	ug/kg	150
Bromomethane	ND	500	ug/kg	250
1,2-Dibromoethane	ND	250	ug/kg	70
Chloroethane	ND	500	ug/kg	250
Trichlorofluoromethane	ND	500	ug/kg	70
Acrolein	ND	5000	ug/kg	2000
1,1-Dichloroethene	ND	250	ug/kg	120
Iodomethane	ND	500	ug/kg	250
Acetone	**890 J,B**	**1200**	**ug/kg**	**400**
Carbon disulfide	ND	250	ug/kg	120
Methylene chloride	ND	250	ug/kg	50
trans-1,2-Dichloroethene	ND	250	ug/kg	120
Acrylonitrile	ND	5000	ug/kg	2000
Methyl tert-butyl ether	ND	250	ug/kg	100
1,1-Dichloroethane	ND	250	ug/kg	100
Vinyl acetate	ND	500	ug/kg	380
2,2-Dichloropropane	ND	250	ug/kg	100
cis-1,2-Dichloroethene	ND	250	ug/kg	120
2-Butanone	ND	1200	ug/kg	700
Bromochloromethane	ND	250	ug/kg	110
Chloroform	ND	250	ug/kg	70
Tetrahydrofuran	ND	1000	ug/kg	500
1,1,1-Trichloroethane	ND	250	ug/kg	180
1,1-Dichloropropene	ND	250	ug/kg	100
Carbon tetrachloride	ND	250	ug/kg	100
Benzene	ND	250	ug/kg	100
1,2-Dichloroethane	ND	250	ug/kg	70
Trichloroethene	**380**	**250**	**ug/kg**	**70**
1,2-Dichloropropane	ND	250	ug/kg	100
Bromodichloromethane	ND	250	ug/kg	100
2-Chloroethyl vinyl ether	ND	500	ug/kg	350
cis-1,3-Dichloropropene	ND	250	ug/kg	100
4-Methyl-2-pentanone	ND	1200	ug/kg	400
Toluene	ND	250	ug/kg	60
trans-1,3-Dichloropropene	ND	250	ug/kg	70

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HALEY & ALDRICH INC

Client Sample ID: SB1001_SSB080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-014 Work Order #...: E5RHC1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	250	ug/kg	100
Tetrachloroethene	**330**	**250**	**ug/kg**	**80**
2-Hexanone	ND	1200	ug/kg	350
Dibromochloromethane	ND	250	ug/kg	110
Chlorobenzene	ND	250	ug/kg	100
Ethylbenzene	**390**	**250**	**ug/kg**	**70**
Xylenes (total)	**1000**	**250**	**ug/kg**	**180**
Styrene	ND	500	ug/kg	100
Bromoform	ND	250	ug/kg	100
Isopropylbenzene	**340**	**250**	**ug/kg**	**120**
p-Isopropyltoluene	**900**	**250**	**ug/kg**	**70**
Bromobenzene	ND	250	ug/kg	70
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	60
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	100
1,2,3-Trichloropropane	ND	250	ug/kg	110
n-Propylbenzene	**900**	**250**	**ug/kg**	**110**
2-Chlorotoluene	ND	250	ug/kg	70
4-Chlorotoluene	ND	250	ug/kg	70
1,3,5-Trimethylbenzene	**2600**	**250**	**ug/kg**	**120**
tert-Butylbenzene	ND	250	ug/kg	70
1,2,4-Trimethylbenzene	**7700**	**250**	**ug/kg**	**70**
sec-Butylbenzene	**590**	**250**	**ug/kg**	**70**
1,3-Dichlorobenzene	ND	250	ug/kg	70
1,4-Dichlorobenzene	ND	250	ug/kg	100
1,2-Dichlorobenzene	ND	250	ug/kg	100
n-Butylbenzene	**1900**	**250**	**ug/kg**	**70**
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	150
1,2,4-Trichloro-benzene	ND	250	ug/kg	70
Hexachlorobutadiene	ND	250	ug/kg	70
1,2,3-Trichlorobenzene	ND	250	ug/kg	70
t-Butanol	ND	5000	ug/kg	2500
Isopropyl ether	ND	500	ug/kg	100
Tert-amyl methyl ether	ND	500	ug/kg	100
Tert-butyl ethyl ether	ND	500	ug/kg	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(60 - 140)
1,2-Dichloroethane-d4	97	(60 - 140)
Toluene-d8	93	(60 - 140)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

HALEY & ALDRICH INC

SB1001_SSB080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-014 Work Order #: E5RHC1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
unknown aromatic hydrocarbon		8900	M	16.178	ug/kg
unknown aromatic hydrocarbon		8100	M	17.94	ug/kg
unknown aromatic hydrocarbon		13000	M	18.403	ug/kg
unknown aromatic hydrocarbon		7600	M	19.17	ug/kg
unknown aromatic hydrocarbon		5300	M	20.263	ug/kg
unknown aromatic hydrocarbon		21000	M	21.1	ug/kg
unknown Naphthalene		6200	M	21.395	ug/kg
unknown Naphthalene		13000	M	23.443	ug/kg
unknown Naphthalene		31000	M	24.113	ug/kg
unknown Naphthalene		13000	M	24.29	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: SB1001_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...:	E2H010352-015	Work Order #...:	E5RHD1AA	Matrix.....:	SOLID
Date Sampled...:	08/01/02 13:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2220107
Prep Date.....:	08/02/02	Analysis Date..:	08/03/02		
Prep Batch #...:	2220270	Analysis Time..:	03:36		
Dilution Factor:	1				
Analyst ID.....:	999998	Instrument ID..:	MSD		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	30
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**7.0**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: SB1001_SSC080102_0001

GC/MS Volatiles

Lot-Sample #...: E2H010352-015 Work Order #...: E5RHD1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	**2.0 J**	**5.0**	**ug/kg**	**2.0**
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	**3.1 J**	**5.0**	**ug/kg**	**2.0**
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	**7.6**	**5.0**	**ug/kg**	**2.0**
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	128	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	87	(70 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

SB1001_SSC080102_0001

GC/MS Volatiles

Lot-Sample #: E2H010352-015 Work Order #: E5RHD1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aromatic		140	M	17.382	ug/kg
Unknown alkane		420	M	18.82	ug/kg
Unknown cycloalkane		92	M	19.952	ug/kg
Unknown aromatic		67	M	20.11	ug/kg
Unknown alkane		380	M	21.399	ug/kg
Unknown cycloalkane		70	M	22.108	ug/kg
Unknown alkane		940	M	23.152	ug/kg
Unknown cycloalkane		140	M	23.9	ug/kg
Unknown alkane		410	M	24.087	ug/kg
Unknown alkane		330	M	24.284	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

GC Volatiles

Lot-Sample #...:	E2H010352-016	**Work Order #...:**	E5RHE1AC	**Matrix.....:**	SOLID
Date Sampled...:	08/01/02 13:00	**Date Received..:**	08/01/02 16:20	**MS Run #.....:**	2217161
Prep Date.....:	08/02/02	**Analysis Date..:**	08/02/02		
Prep Batch #...:	2217325	**Analysis Time..:**	16:40		
Dilution Factor:	1				
Analyst ID.....:	001464	**Instrument ID..:**	G13		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	91	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

GC Semivolatiles

Lot-Sample #...:	E2H010352-016	Work Order #...:	E5RHE1AA	Matrix.....:	SOLID
Date Sampled...:	08/01/02 13:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2214105
Prep Date.....:	08/02/02	Analysis Date..:	08/05/02		
Prep Batch #...:	2214273	Analysis Time..:	17:15		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	**5.2 J**	**10**	**mg/kg**	**2.0**
C14-C15	**11**	**10**	**mg/kg**	**2.0**
C16-C17	**12**	**10**	**mg/kg**	**2.0**
C18-C19	**9.6 J**	**10**	**mg/kg**	**2.0**
C20-C23	**15**	**10**	**mg/kg**	**2.0**
C24-C27	**8.6 J**	**10**	**mg/kg**	**2.0**
C28-C31	**6.6 J**	**10**	**mg/kg**	**2.0**
C32-C35	**5.4 J**	**10**	**mg/kg**	**2.0**
C36-C39	ND	10	mg/kg	2.0
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	**73**	**10**	**mg/kg**	**2.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	97	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-016 Matrix.....: SOLID
Date Sampled...: 08/01/02 13:00 Date Received..: 08/01/02 16:20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2214218						
Aluminum	20600	20.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AE
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 8.0	
Arsenic	6.0	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AF
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AG
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.60	
Barium	125	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AH
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AJ
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.060	
Chromium	28.0	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AK
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Beryllium	0.61	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AL
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.050	
Lead	5.7	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AM
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Selenium	0.56	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AN
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SP39_SSA080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-016 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AP
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cobalt	10.2	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AQ
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Copper	26.3	2.5	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AR
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Molybdenum	1.1 B	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AT
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Nickel	18.3	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AU
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AV
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.80	
Vanadium	51.2	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AW
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Zinc	66.5	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHE1AX
		Dilution Factor: 1		Analysis Time..: 13:36	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 1.0	
Prep Batch #...: 2214226						
Mercury	0.020 B	0.10	mg/kg	SW846 7471A	08/02/02	E5RHE1A0
		Dilution Factor: 1		Analysis Time..: 14:00	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2214073	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

GC Volatiles

Lot-Sample #...:	E2H010352-017	Work Order #...:	E5RHJ1AD	Matrix.....:	SOLID
Date Sampled...:	08/01/02 13:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2217161
Prep Date.....:	08/02/02	Analysis Date..:	08/02/02		
Prep Batch #...:	2217325	Analysis Time..:	17:08		
Dilution Factor:	1				
Analyst ID.....:	001464	Instrument ID..:	G13		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C6-C8	ND	1.0	mg/kg	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	90	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

GC Semivolatiles

Lot-Sample #...:	E2H010352-017	Work Order #...:	E5RHJ1AC	Matrix.....:	SOLID
Date Sampled...:	08/01/02 13:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2214105
Prep Date.....:	08/02/02	Analysis Date..:	08/05/02		
Prep Batch #...:	2214273	Analysis Time..:	17:54		
Dilution Factor:	1				
Analyst ID.....:	356074	Instrument ID..:	G02		
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C8-C9	ND	10	mg/kg	2.0
C10-C11	ND	10	mg/kg	2.0
C12-C13	ND	10	mg/kg	2.0
C14-C15	ND	10	mg/kg	2.0
C16-C17	ND	10	mg/kg	2.0
C18-C19	ND	10	mg/kg	2.0
C20-C23	ND	10	mg/kg	2.0
C24-C27	ND	10	mg/kg	2.0
C28-C31	**2.1 J**	**10**	**mg/kg**	**2.0**
C32-C35	**3.2 J**	**10**	**mg/kg**	**2.0**
C36-C39	**2.1 J**	**10**	**mg/kg**	**2.0**
C40+	ND	10	mg/kg	2.0
Total Carbon Chain Range	**7.4 J**	**10**	**mg/kg**	**2.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	91	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-017 Matrix.....: SOLID
Date Sampled...: 08/01/02 13:00 Date Received..: 08/01/02 16:20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2214218						
Aluminum	11500	20.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AF
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 8.0	
Arsenic	6.5	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AG
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Antimony	ND	6.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AH
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.60	
Barium	55.7	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AJ
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AK
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.060	
Chromium	21.7	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AL
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Beryllium	0.39 B	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AM
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.050	
Lead	4.0	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AN
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Selenium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AP
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	

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HALEY & ALDRICH INC

Client Sample ID: SP39_SSB080102_0001

TOTAL Metals

Lot-Sample #...: E2H010352-017 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AQ
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Cobalt	6.1	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AR
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Copper	13.4	2.5	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AT
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.40	
Molybdenum	1.1 B	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AU
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Nickel	11.5	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AV
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AW
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.80	
Vanadium	33.0	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1AX
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 0.10	
Zinc	35.3	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5RHJ1A0
		Dilution Factor: 1		Analysis Time..: 14:20	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 2214071	MDL.....: 1.0	

Prep Batch #...: 2214226

Mercury	0.043 B	0.10	mg/kg	SW846 7471A	08/02/02	E5RHJ1AA
		Dilution Factor: 1		Analysis Time..: 14:05	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 2214073	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E2H010352

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8260B		2220270	2220107
002	SOLID	SW846 8260B		2218248	2218096
003	SOLID	SW846 8260B		2220270	2220107
004	SOLID	SW846 8260B		2220270	2220107
005	SOLID	SW846 8260B		2220270	2220107
006	SOLID	SW846 8260B		2220270	2220107
007	SOLID	SW846 8260B		2220252	2220089
008	SOLID	SW846 8260B		2220270	2220107
009	SOLID	SW846 8260B		2220270	2220107
010	SOLID	SW846 8260B		2220270	2220107
011	SOLID	SW846 8260B		2220270	2220107
012	SOLID	SW846 8260B		2220270	2220107
013	SOLID	SW846 8260B		2220270	2220107
014	SOLID	SW846 8260B		2225371	2225151
015	SOLID	SW846 8260B		2220270	2220107
016	SOLID	SW846 8015B		2214273	2214105
	SOLID	SW846 8015B		2217325	2217161
	SOLID	SW846 7471A		2214226	2214073
	SOLID	SW846 6010B		2214218	2214071
017	SOLID	SW846 8015B		2214273	2214105
	SOLID	SW846 8015B		2217325	2217161
	SOLID	SW846 7471A		2214226	2214073
	SOLID	SW846 6010B		2214218	2214071

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352
MB Lot-Sample #: E2H060000-248

Work Order #...: E50FG1AA

Matrix.....: SOLID

Prep Date.....: 08/05/02

Analysis Time..: 16:04

Analysis Date..: 08/05/02

Prep Batch #...: 2218248

Instrument ID..: MSD

Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E50FG1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(65 - 135)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	96	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2H060000-248 B **Work Order #:** E50FG1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352
MB Lot-Sample #: E2H080000-252

Work Order #...: E54KX1AA

Matrix.....: SOLID

Prep Date.....: 08/07/02

Analysis Time..: 12:07

Analysis Date..: 08/07/02

Prep Batch #...: 2220252

Instrument ID..: MSD

Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E54KX1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(65 - 135)
1,2-Dichloroethane-d4	81	(60 - 140)
Toluene-d8	80	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352
MB Lot-Sample #: E2H080000-270

Work Order #...: E54L91AA

Matrix.....: SOLID

Prep Date.....: 08/02/02

Analysis Time..: 19:30

Analysis Date..: 08/02/02

Prep Batch #...: 2220270

Instrument ID..: MSD

Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E54L91AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(65 - 135)
1,2-Dichloroethane-d4	82	(60 - 140)
Toluene-d8	91	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

HALEY & ALDRICH INC

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2H080000-270 B Work Order #: E54L91AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352
MB Lot-Sample #: E2H130000-371

Work Order #...: E6D491AA

Matrix.....: SOLID

Prep Date.....: 08/06/02

Analysis Time..: 18:36

Analysis Date..: 08/07/02

Prep Batch #...: 2225371

Instrument ID..: MSD

Dilution Factor: 1

Analyst ID.....: 999998

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	500	ug/kg	SW846 8260B
Chloromethane	ND	500	ug/kg	SW846 8260B
Vinyl chloride	ND	500	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	500	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	500	ug/kg	SW846 8260B
Acrolein	ND	5000	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
Iodomethane	ND	500	ug/kg	SW846 8260B
Acetone	**920 J**	**1200**	**ug/kg**	**SW846 8260B**
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
Acrylonitrile	ND	5000	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
Vinyl acetate	ND	500	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	1200	ug/kg	SW846 8260B
Bromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
Tetrahydrofuran	ND	1000	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Benzene	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	500	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1200	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	1200	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E6D491AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	250	ug/kg	SW846 8260B
Styrene	ND	500	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	250	ug/kg	SW846 8260B
Bromobenzene	ND	250	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	250	ug/kg	SW846 8260B
n-Propylbenzene	ND	250	ug/kg	SW846 8260B
2-Chlorotoluene	ND	250	ug/kg	SW846 8260B
4-Chlorotoluene	ND	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
tert-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
sec-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
n-Butylbenzene	ND	250	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	250	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	250	ug/kg	SW846 8260B
t-Butanol	ND	5000	ug/kg	SW846 8260B
Isopropyl ether	ND	500	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	500	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	500	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 140)
1,2-Dichloroethane-d4	105	(60 - 140)
Toluene-d8	102	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

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Method Blank Report

GC/MS Volatiles

Lot-Sample #: E2H130000-371 B Work Order #: E6D491AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
unknown		260	M	9.704	ug/kg
unknown		280	M	11.929	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E2H010352
MB Lot-Sample #: E2H050000-325

Work Order #...: E5XCW1AA

Matrix.....: SOLID

Prep Date.....: 08/02/02

Analysis Time..: 15:44

Analysis Date..: 08/02/02

Prep Batch #...: 2217325

Instrument ID..: G13

Dilution Factor: 1

Analyst ID.....: 001464

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C6-C8	ND	1.0	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	91	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: E2H010352
MB Lot-Sample #: E2H020000-273

Work Order #...: E5TF11AA

Matrix.....: SOLID

Prep Date.....: 08/02/02

Analysis Time..: 14:01

Analysis Date..: 08/05/02

Prep Batch #...: 2214273

Instrument ID..: G02

Dilution Factor: 1

Analyst ID.....: 356074

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C8-C9	ND	10	mg/kg	SW846 8015B
C10-C11	ND	10	mg/kg	SW846 8015B
C12-C13	ND	10	mg/kg	SW846 8015B
C14-C15	ND	10	mg/kg	SW846 8015B
C16-C17	ND	10	mg/kg	SW846 8015B
C18-C19	ND	10	mg/kg	SW846 8015B
C20-C23	ND	10	mg/kg	SW846 8015B
C24-C27	ND	10	mg/kg	SW846 8015B
C28-C31	ND	10	mg/kg	SW846 8015B
C32-C35	ND	10	mg/kg	SW846 8015B
C36-C39	ND	10	mg/kg	SW846 8015B
C40+	ND	10	mg/kg	SW846 8015B
Total Carbon Chain Range	ND	10	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E2H020000-218 **Prep Batch #...:** 2214218						
Aluminum	ND	20.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AA
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AC
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AD
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AE
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AF
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AG
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AH
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AJ
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AK
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AL
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AM
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AN
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AP
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AQ
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AR
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AT
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	08/02-08/05/02	E5R4E1AU
		Dilution Factor: 1				
		Analysis Time..: 13:05		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E2H020000-226 **Prep Batch #...:** 2214226

Mercury	ND	0.10	mg/kg	SW846 7471A	08/02/02	E5R4L1AA
		Dilution Factor: 1				
		Analysis Time..: 13:55		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E50FG1AC Matrix.....: SOLID
LCS Lot-Sample#: E2H060000-248
Prep Date.....: 08/05/02 Analysis Date..: 08/05/02
Prep Batch #...: 2218248 Analysis Time..: 15:34
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	88	(65 - 150)	SW846 8260B
Benzene	95	(70 - 130)	SW846 8260B
Trichloroethene	92	(70 - 135)	SW846 8260B
Toluene	90	(70 - 130)	SW846 8260B
Chlorobenzene	89	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(65 - 135)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	90	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E50FG1AC Matrix.....: SOLID
LCS Lot-Sample#: E2H060000-248
Prep Date.....: 08/05/02 Analysis Date..: 08/05/02
Prep Batch #...: 2218248 Analysis Time..: 15:34
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	44.0	ug/kg	88	SW846 8260B
Benzene	50.0	47.6	ug/kg	95	SW846 8260B
Trichloroethene	50.0	45.8	ug/kg	92	SW846 8260B
Toluene	50.0	45.0	ug/kg	90	SW846 8260B
Chlorobenzene	50.0	44.3	ug/kg	89	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(65 - 135)
1,2-Dichloroethane-d4	84	(60 - 140)
Toluene-d8	90	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E54KX1AC Matrix.....: SOLID
LCS Lot-Sample#: E2H080000-252
Prep Date.....: 08/07/02 Analysis Date..: 08/07/02
Prep Batch #...: 2220252 Analysis Time..: 11:37
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**93**	**(73 - 128)**	**SW846 8260B**
Benzene	**94**	**(81 - 119)**	**SW846 8260B**
Trichloroethene	**94**	**(78 - 121)**	**SW846 8260B**
Toluene	**93**	**(80 - 122)**	**SW846 8260B**
Chlorobenzene	**92**	**(82 - 119)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(60 - 128)
1,2-Dichloroethane-d4	75	(63 - 134)
Toluene-d8	78	(72 - 123)
Dibromofluoromethane	81	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E54KX1AC Matrix.....: SOLID
LCS Lot-Sample#: E2H080000-252
Prep Date.....: 08/07/02 Analysis Date..: 08/07/02
Prep Batch #...: 2220252 Analysis Time..: 11:37
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	46.4	ug/kg	93	SW846 8260B
Benzene	50.0	47.2	ug/kg	94	SW846 8260B
Trichloroethene	50.0	46.8	ug/kg	94	SW846 8260B
Toluene	50.0	46.6	ug/kg	93	SW846 8260B
Chlorobenzene	50.0	46.2	ug/kg	92	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(60 - 128)
1,2-Dichloroethane-d4	75	(63 - 134)
Toluene-d8	78	(72 - 123)
Dibromofluoromethane	81	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E54L91AC Matrix.....: SOLID
LCS Lot-Sample#: E2H080000-270
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2220270 Analysis Time..: 17:35
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**99**	**(73 - 128)**	**SW846 8260B**
Benzene	**101**	**(81 - 119)**	**SW846 8260B**
Trichloroethene	**97**	**(78 - 121)**	**SW846 8260B**
Toluene	**98**	**(80 - 122)**	**SW846 8260B**
Chlorobenzene	**97**	**(82 - 119)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(60 - 128)
1,2-Dichloroethane-d4	92	(63 - 134)
Toluene-d8	99	(72 - 123)
Dibromofluoromethane	97	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E54L91AC Matrix.....: SOLID
LCS Lot-Sample#: E2H080000-270
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2220270 Analysis Time..: 17:35
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	49.6	ug/kg	99	SW846 8260B
Benzene	50.0	50.4	ug/kg	101	SW846 8260B
Trichloroethene	50.0	48.5	ug/kg	97	SW846 8260B
Toluene	50.0	48.8	ug/kg	98	SW846 8260B
Chlorobenzene	50.0	48.3	ug/kg	97	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(60 - 128)
1,2-Dichloroethane-d4	92	(63 - 134)
Toluene-d8	99	(72 - 123)
Dibromofluoromethane	97	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E6D491AC Matrix.....: SOLID
LCS Lot-Sample#: E2H130000-371
Prep Date.....: 08/06/02 Analysis Date..: 08/07/02
Prep Batch #...: 2225371 Analysis Time..: 17:33
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**89**	**(60 - 145)**	**SW846 8260B**
Benzene	**82**	**(60 - 135)**	**SW846 8260B**
Trichloroethene	**88**	**(60 - 140)**	**SW846 8260B**
Toluene	**91**	**(60 - 125)**	**SW846 8260B**
Chlorobenzene	**92**	**(60 - 125)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 140)
1,2-Dichloroethane-d4	104	(60 - 140)
Toluene-d8	106	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E6D491AC Matrix.....: SOLID
LCS Lot-Sample#: E2H130000-371
Prep Date.....: 08/06/02 Analysis Date..: 08/07/02
Prep Batch #...: 2225371 Analysis Time..: 17:33
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	2500	2230	ug/kg	89	SW846 8260B
Benzene	2500	2050	ug/kg	82	SW846 8260B
Trichloroethene	2500	2190	ug/kg	88	SW846 8260B
Toluene	2500	2270	ug/kg	91	SW846 8260B
Chlorobenzene	2500	2310	ug/kg	92	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 140)
1,2-Dichloroethane-d4	104	(60 - 140)
Toluene-d8	106	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E2H010352 Work Order #...: E5XCW1AC Matrix.....: SOLID
LCS Lot-Sample#: E2H050000-325
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2217325 Analysis Time..: 16:12
Dilution Factor: 1 Instrument ID..: G13
Analyst ID.....: 001464

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Gasoline)	93	(70 - 140)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	117	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E2H010352 Work Order #...: E5XCW1AC Matrix.....: SOLID
LCS Lot-Sample#: E2H050000-325
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2217325 Analysis Time..: 16:12
Dilution Factor: 1 Instrument ID..: G13
Analyst ID.....: 001464

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Gasoline)	5.00	4.63	mg/kg	93	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	117	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: E2H010352 **Work Order #...:** E5TF11AC **Matrix.....:** SOLID
LCS Lot-Sample#: E2H020000-273
Prep Date.....: 08/02/02 **Analysis Date..:** 08/05/02
Prep Batch #...: 2214273 **Analysis Time..:** 14:40
Dilution Factor: 1 **Instrument ID..:** G02
Analyst ID.....: 356074

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**81**	**(55 - 130)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	98	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: E2H010352 Work Order #...: E5TF11AC Matrix.....: SOLID
LCS Lot-Sample#: E2H020000-273
Prep Date.....: 08/02/02 Analysis Date..: 08/05/02
Prep Batch #...: 2214273 Analysis Time..: 14:40
Dilution Factor: 1 Instrument ID..: G02
Analyst ID.....: 356074

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH (as Diesel)	250	202	mg/kg	81	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	98	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2H020000-218 **Prep Batch #...:** 2214218					
Aluminum	97	(70 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1AV
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Arsenic	103	(75 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1AW
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Antimony	101	(75 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1AX
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Barium	100	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A0
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Cadmium	99	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A1
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Chromium	103	(85 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A2
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Beryllium	109	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A3
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Lead	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A4
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Selenium	96	(70 - 115)	SW846 6010B	08/02-08/05/02	E5R4E1A5
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Silver	105	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A6
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	101	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A7
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Copper	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A8
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Molybdenum	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1A9
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Nickel	98	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1CA
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Thallium	102	(75 - 125)	SW846 6010B	08/02-08/05/02	E5R4E1CC
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Vanadium	103	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1CD
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			
Zinc	106	(80 - 120)	SW846 6010B	08/02-08/05/02	E5R4E1CE
		Dilution Factor: 1	Analysis Time..: 13:10	Analyst ID.....: 021088	
		Instrument ID..: M01			

LCS Lot-Sample#: E2H020000-226 **Prep Batch #...:** 2214226

Mercury	102	(85 - 115)	SW846 7471A	08/02/02	E5R4L1AC
		Dilution Factor: 1	Analysis Time..: 13:56	Analyst ID.....: 000023	
		Instrument ID..: M04			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E2H020000-218 **Prep Batch #...:** 2214218							
Aluminum	200	195	mg/kg	97	SW846 6010B	08/02-08/05/02	E5R4E1AV
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Arsenic	200	206	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1AW
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Antimony	50.0	50.6	mg/kg	101	SW846 6010B	08/02-08/05/02	E5R4E1AX
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Barium	200	200	mg/kg	100	SW846 6010B	08/02-08/05/02	E5R4E1A0
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Cadmium	5.00	4.94	mg/kg	99	SW846 6010B	08/02-08/05/02	E5R4E1A1
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Chromium	20.0	20.5	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A2
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Beryllium	5.00	5.44	mg/kg	109	SW846 6010B	08/02-08/05/02	E5R4E1A3
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Lead	50.0	51.3	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A4
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Selenium	200	192	mg/kg	96	SW846 6010B	08/02-08/05/02	E5R4E1A5
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Silver	5.00	5.27	mg/kg	105	SW846 6010B	08/02-08/05/02	E5R4E1A6
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	50.7	mg/kg	101	SW846 6010B	08/02-08/05/02	E5R4E1A7
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Copper	25.0	25.7	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A8
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Molybdenum	100	103	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1A9
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Nickel	50.0	49.2	mg/kg	98	SW846 6010B	08/02-08/05/02	E5R4E1CA
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Thallium	200	204	mg/kg	102	SW846 6010B	08/02-08/05/02	E5R4E1CC
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Vanadium	50.0	51.6	mg/kg	103	SW846 6010B	08/02-08/05/02	E5R4E1CD
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				
Zinc	50.0	52.9	mg/kg	106	SW846 6010B	08/02-08/05/02	E5R4E1CE
			Dilution Factor: 1		Analysis Time..: 13:10	Analyst ID.....: 021088	
			Instrument ID..: M01				

LCS Lot-Sample#: E2H020000-226 **Prep Batch #...:** 2214226

Mercury	0.833	0.849	mg/kg	102	SW846 7471A	08/02/02	E5R4L1AC
			Dilution Factor: 1		Analysis Time..: 13:56	Analyst ID.....: 000023	
			Instrument ID..: M04				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E5RGN1AC-MS Matrix.....: SOLID
MS Lot-Sample #: E2H010352-007 E5RGN1AD-MSD
Date Sampled...: 08/01/02 10:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220089
Prep Date.....: 08/07/02 Analysis Date..: 08/07/02
Prep Batch #...: 2220252 Analysis Time..: 14:30
Dilution Factor: 1 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	84	(65 - 150)			SW846 8260B
	83	(65 - 150)	1.7	(0-30)	SW846 8260B
Benzene	92	(70 - 130)			SW846 8260B
	90	(70 - 130)	2.9	(0-30)	SW846 8260B
Trichloroethene	84	(70 - 135)			SW846 8260B
	86	(70 - 135)	2.4	(0-30)	SW846 8260B
Toluene	87	(70 - 130)			SW846 8260B
	90	(70 - 130)	3.6	(0-30)	SW846 8260B
Chlorobenzene	89	(70 - 130)			SW846 8260B
	90	(70 - 130)	0.98	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(65 - 135)
	96	(65 - 135)
1,2-Dichloroethane-d4	68	(60 - 140)
	69	(60 - 140)
Toluene-d8	73	(70 - 130)
	74	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E5RGN1AC-MS Matrix.....: SOLID
MS Lot-Sample #: E2H010352-007 E5RGN1AD-MSD
Date Sampled...: 08/01/02 10:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220089
Prep Date.....: 08/07/02 Analysis Date..: 08/07/02
Prep Batch #...: 2220252 Analysis Time..: 14:30
Dilution Factor: 1 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	42.0	ug/kg	84		SW846 8260B
	ND	50.0	41.3	ug/kg	83	1.7	SW846 8260B
Benzene	ND	50.0	46.2	ug/kg	92		SW846 8260B
	ND	50.0	44.9	ug/kg	90	2.9	SW846 8260B
Trichloroethene	ND	50.0	41.8	ug/kg	84		SW846 8260B
	ND	50.0	42.9	ug/kg	86	2.4	SW846 8260B
Toluene	ND	50.0	43.4	ug/kg	87		SW846 8260B
	ND	50.0	45.1	ug/kg	90	3.6	SW846 8260B
Chlorobenzene	ND	50.0	44.3	ug/kg	89		SW846 8260B
	ND	50.0	44.8	ug/kg	90	0.98	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(65 - 135)
	96	(65 - 135)
1,2-Dichloroethane-d4	68	(60 - 140)
	69	(60 - 140)
Toluene-d8	73	(70 - 130)
	74	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E5RFP1AC-MS Matrix.....: SOLID
MS Lot-Sample #: E2H010352-001 E5RFP1AD-MSD
Date Sampled...: 08/01/02 09:00 Date Received..: 08/01/02 16:20 MS Run #.....: 2220107
Prep Date.....: 08/02/02 Analysis Date..: 08/02/02
Prep Batch #...: 2220270 Analysis Time..: 20:32
Dilution Factor: 1 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	97	(65 - 150)			SW846 8260B
	94	(65 - 150)	3.6	(0-30)	SW846 8260B
Benzene	99	(70 - 130)			SW846 8260B
	99	(70 - 130)	0.14	(0-30)	SW846 8260B
Trichloroethene	98	(70 - 135)			SW846 8260B
	102	(70 - 135)	3.9	(0-30)	SW846 8260B
Toluene	93	(70 - 130)			SW846 8260B
	95	(70 - 130)	2.2	(0-30)	SW846 8260B
Chlorobenzene	93	(70 - 130)			SW846 8260B
	94	(70 - 130)	0.47	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
	97	(60 - 140)
Toluene-d8	98	(70 - 130)
	100	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2H010352	Work Order #...:	E5RFP1AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2H010352-001		E5RFP1AD-MSD		
Date Sampled...:	08/01/02 09:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2220107
Prep Date.....:	08/02/02	Analysis Date..:	08/02/02		
Prep Batch #...:	2220270	Analysis Time..:	20:32		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	48.5	ug/kg	97		SW846 8260B
	ND	50.0	46.8	ug/kg	94	3.6	SW846 8260B
Benzene	ND	50.0	49.7	ug/kg	99		SW846 8260B
	ND	50.0	49.6	ug/kg	99	0.14	SW846 8260B
Trichloroethene	ND	50.0	49.1	ug/kg	98		SW846 8260B
	ND	50.0	51.0	ug/kg	102	3.9	SW846 8260B
Toluene	ND	50.0	46.5	ug/kg	93		SW846 8260B
	ND	50.0	47.6	ug/kg	95	2.2	SW846 8260B
Chlorobenzene	ND	50.0	46.6	ug/kg	93		SW846 8260B
	ND	50.0	46.8	ug/kg	94	0.47	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	96	(60 - 140)
	97	(60 - 140)
Toluene-d8	98	(70 - 130)
	100	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E5VVV1AL-MS Matrix.....: SOLID
MS Lot-Sample #: E2H020314-001 E5VVV1AM-MSD
Date Sampled...: 07/30/02 10:25 Date Received..: 08/02/02 16:15 MS Run #.....: 2218096
Prep Date.....: 08/05/02 Analysis Date..: 08/05/02
Prep Batch #...: 2218248 Analysis Time..: 22:53
Dilution Factor: 1 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	92	(65 - 150)			SW846 8260B
	97	(65 - 150)	5.1	(0-30)	SW846 8260B
Benzene	91	(70 - 130)			SW846 8260B
	95	(70 - 130)	4.4	(0-30)	SW846 8260B
Trichloroethene	142 a,MSC	(70 - 135)			SW846 8260B
	146 a,MSC	(70 - 135)	2.5	(0-30)	SW846 8260B
Toluene	87	(70 - 130)			SW846 8260B
	86	(70 - 130)	1.7	(0-30)	SW846 8260B
Chlorobenzene	89	(70 - 130)			SW846 8260B
	87	(70 - 130)	1.6	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	110	(60 - 140)
	117	(60 - 140)
Toluene-d8	92	(70 - 130)
	97	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E2H010352	Work Order #...:	E5VVV1AL-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2H020314-001		E5VVV1AM-MSD		
Date Sampled...:	07/30/02 10:25	Date Received..:	08/02/02 16:15	MS Run #.....:	2218096
Prep Date.....:	08/05/02	Analysis Date..:	08/05/02		
Prep Batch #...:	2218248	Analysis Time..:	22:53		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	56.6	52.2	ug/kg	92		SW846 8260B
	ND	56.6	55.0	ug/kg	97	5.1	SW846 8260B
Benzene	ND	56.6	51.6	ug/kg	91		SW846 8260B
	ND	56.6	53.9	ug/kg	95	4.4	SW846 8260B
Trichloroethene	ND	56.6	80.4	ug/kg	142		SW846 8260B
		Qualifiers:	a,MSC				
	ND	56.6	82.4	ug/kg	146	2.5	SW846 8260B
		Qualifiers:	a,MSC				
Toluene	ND	56.6	49.5	ug/kg	87		SW846 8260B
	ND	56.6	48.7	ug/kg	86	1.7	SW846 8260B
Chlorobenzene	ND	56.6	50.3	ug/kg	89		SW846 8260B
	ND	56.6	49.5	ug/kg	87	1.6	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	88	(65 - 135)
	95	(65 - 135)
1,2-Dichloroethane-d4	110	(60 - 140)
	117	(60 - 140)
Toluene-d8	92	(70 - 130)
	97	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 **Work Order #...:** E5VV61AJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: E2H020314-006 E5VV61AK-MSD
Date Sampled...: 08/01/02 11:10 **Date Received..:** 08/02/02 16:15 **MS Run #.....:** 2225151
Prep Date.....: 08/06/02 **Analysis Date..:** 08/08/02
Prep Batch #...: 2225371 **Analysis Time..:** 01:57
Dilution Factor: 5 **Analyst ID.....:** 999998 **Instrument ID..:** MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**85**	**(60 - 145)**			**SW846 8260B**
	81	**(60 - 145)**	**5.7**	**(0-35)**	**SW846 8260B**
Benzene	**97**	**(60 - 135)**			**SW846 8260B**
	96	**(60 - 135)**	**0.10**	**(0-35)**	**SW846 8260B**
Trichloroethene	**90**	**(60 - 140)**			**SW846 8260B**
	83	**(60 - 140)**	**7.9**	**(0-35)**	**SW846 8260B**
Toluene	**0.0**	**(60 - 125)**			**SW846 8260B**
	Qualifiers: NC,MSB,MSC				
	0.0	**(60 - 125)**	**0.0**	**(0-35)**	**SW846 8260B**
	Qualifiers: NC,MSB,MSC				
Chlorobenzene	**123**	**(60 - 125)**			**SW846 8260B**
	115	**(60 - 125)**	**6.8**	**(0-35)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	153 *	(60 - 140)
	150 *	(60 - 140)
1,2-Dichloroethane-d4	230 *	(60 - 140)
	179 *	(60 - 140)
Toluene-d8	179 *	(60 - 140)
	179 *	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E2H010352 Work Order #...: E5VV61AJ-MS Matrix.....: SOLID
MS Lot-Sample #: E2H020314-006 E5VV61AK-MSD
Date Sampled...: 08/01/02 11:10 Date Received..: 08/02/02 16:15 MS Run #.....: 2225151
Prep Date.....: 08/06/02 Analysis Date..: 08/08/02
Prep Batch #...: 2225371 Analysis Time..: 01:57
Dilution Factor: 5 Analyst ID.....: 999998 Instrument ID..: MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	2740	2340	ug/kg	85		SW846 8260B
	ND	2740	2210	ug/kg	81	5.7	SW846 8260B
Benzene	3500	2740	6190	ug/kg	97		SW846 8260B
	3500	2740	6180	ug/kg	96	0.10	SW846 8260B
Trichloroethene	ND	2740	2470	ug/kg	90		SW846 8260B
	ND	2740	2280	ug/kg	83	7.9	SW846 8260B
Toluene	24000	2740		ug/kg	0.0		SW846 8260B
	Qualifiers: NC,MSB,MSC						
	24000	2740		ug/kg	0.0	0.0	SW846 8260B
	Qualifiers: NC,MSB,MSC						
Chlorobenzene	ND	2740	3370	ug/kg	123		SW846 8260B
	ND	2740	3150	ug/kg	115	6.8	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	153 *	(60 - 140)
	150 *	(60 - 140)
1,2-Dichloroethane-d4	230 *	(60 - 140)
	179 *	(60 - 140)
Toluene-d8	179 *	(60 - 140)
	179 *	(60 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...:	E2H010352	Work Order #...:	E5RHJ1A1-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2H010352-017		E5RHJ1A2-MSD		
Date Sampled...:	08/01/02 13:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2217161
Prep Date.....:	08/02/02	Analysis Date..:	08/02/02		
Prep Batch #...:	2217325	Analysis Time..:	17:36		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	90	(70 - 140)			SW846 8015B
	85	(70 - 140)	6.4	(0-40)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	118	(60 - 130)
	116	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E2H010352	Work Order #...:	E5RHJ1A1-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2H010352-017		E5RHJ1A2-MSD		
Date Sampled...:	08/01/02 13:00	Date Received..:	08/01/02 16:20	MS Run #.....:	2217161
Prep Date.....:	08/02/02	Analysis Date..:	08/02/02		
Prep Batch #...:	2217325	Analysis Time..:	17:36		
Dilution Factor:	1	Analyst ID.....:	001464	Instrument ID..:	G13

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Gasoline)	ND	5.00	4.51	mg/kg	90		SW846 8015B
	ND	5.00	4.23	mg/kg	85	6.4	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	118	(60 - 130)
	116	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	E2H010352	Work Order #...:	E5Q5P1AF-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2H010311-001		E5Q5P1AG-MSD		
Date Sampled...:	08/01/02	Date Received..:	08/01/02 12:00	MS Run #.....:	2214105
Prep Date.....:	08/02/02	Analysis Date..:	08/05/02		
Prep Batch #...:	2214273	Analysis Time..:	15:57		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**76**	**(55 - 130)**			**SW846 8015B**
	74	**(55 - 130)**	**2.0**	**(0-35)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	88	(60 - 130)
	90	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	E2H010352	Work Order #...:	E5Q5P1AF-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E2H010311-001		E5Q5P1AG-MSD		
Date Sampled...:	08/01/02	Date Received..:	08/01/02 12:00	MS Run #.....:	2214105
Prep Date.....:	08/02/02	Analysis Date..:	08/05/02		
Prep Batch #...:	2214273	Analysis Time..:	15:57		
Dilution Factor:	1	Analyst ID.....:	356074	Instrument ID..:	G02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH (as Diesel)	22	250	211	mg/kg	76		SW846 8015B
	22	250	207	mg/kg	74	2.0	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)pyrene	88	(60 - 130)
	90	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID
Date Sampled...: 08/01/02 13:00 Date Received..: 08/01/02 16:20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2H010352-016 Prep Batch #...: 2214218							
Aluminum	NC	(70 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1A1
	NC	(70 - 115)		(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A2
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Arsenic	96	(75 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1A3
	99	(75 - 115)	2.9	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A4
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Antimony	21 N	(75 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1A5
	22 N	(75 - 115)	6.3	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A6
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Barium	83	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1A7
	100	(80 - 120)	11	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1A8
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Cadmium	74 N	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1A9
	78 N	(80 - 120)	4.6	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CA
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Chromium	92	(85 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CC
	108	(85 - 120)	6.7	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CD
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Beryllium	99	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CE
	104	(80 - 120)	4.6	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CF
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID
Date Sampled...: 08/01/02 13:00 Date Received..: 08/01/02 16:20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	92	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CG
	97	(80 - 120)	4.4	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CH
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Selenium	91	(70 - 115)			SW846 6010B	08/02-08/05/02	E5RHE1CJ
	94	(70 - 115)	3.4	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CK
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Silver	94	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CL
	99	(80 - 120)	4.6	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CM
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Cobalt	91	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CN
	97	(80 - 120)	5.4	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CP
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Copper	91	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CQ
	110	(80 - 120)	8.9	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CR
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Molybdenum	89	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CT
	93	(80 - 120)	4.2	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CU
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Nickel	87	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1CV
	94	(80 - 120)	5.8	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1CW
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID
Date Sampled...: 08/01/02 13:00 Date Received..: 08/01/02 16:20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	94	(75 - 125)			SW846 6010B	08/02-08/05/02	E5RHE1CX
	98	(75 - 125)	4.2	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1C0
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Vanadium	90	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1C1
	109	(80 - 120)	9.8	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1C2
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					
Zinc	86	(80 - 120)			SW846 6010B	08/02-08/05/02	E5RHE1C3
	106	(80 - 120)	8.8	(0-25)	SW846 6010B	08/02-08/05/02	E5RHE1C4
		Dilution Factor: 1					
		Analysis Time..: 14:04			Instrument ID..: M01	Analyst ID.....: 021088	
		MS Run #.....: 2214071					

MS Lot-Sample #: E2H010352-016 Prep Batch #...: 2214226

Mercury	122 N	(80 - 120)			SW846 7471A	08/02/02	E5RHE1C5
	129 N	(80 - 120)	5.1	(0-20)	SW846 7471A	08/02/02	E5RHE1C6
		Dilution Factor: 1					
		Analysis Time..: 14:01			Instrument ID..: M04	Analyst ID.....: 000023	
		MS Run #.....: 2214073					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 Matrix.....: SOLID
Date Sampled...: 08/01/02 13:00 Date Received..: 08/01/02 16:20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E2H010352-016 Prep Batch #...: 2214218									
Aluminum									
	20600	200	19700	mg/kg			SW846 6010B	08/02-08/05/02	E5RHE1A1
			Qualifiers: NC						
	20600	200	23200	mg/kg			SW846 6010B	08/02-08/05/02	E5RHE1A2
			Qualifiers: NC						
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Arsenic									
	6.0	200	199	mg/kg	96		SW846 6010B	08/02-08/05/02	E5RHE1A3
	6.0	200	204	mg/kg	99	2.9	SW846 6010B	08/02-08/05/02	E5RHE1A4
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Antimony									
	ND	50.0	10.4 N	mg/kg	21		SW846 6010B	08/02-08/05/02	E5RHE1A5
	ND	50.0	11.1 N	mg/kg	22	6.3	SW846 6010B	08/02-08/05/02	E5RHE1A6
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Barium									
	125	200	290	mg/kg	83		SW846 6010B	08/02-08/05/02	E5RHE1A7
	125	200	326	mg/kg	100	11	SW846 6010B	08/02-08/05/02	E5RHE1A8
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Cadmium									
	ND	5.00	3.70 N	mg/kg	74		SW846 6010B	08/02-08/05/02	E5RHE1A9
	ND	5.00	3.88 N	mg/kg	78	4.6	SW846 6010B	08/02-08/05/02	E5RHE1CA
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Chromium									
	28.0	20.0	46.4	mg/kg	92		SW846 6010B	08/02-08/05/02	E5RHE1CC
	28.0	20.0	49.6	mg/kg	108	6.7	SW846 6010B	08/02-08/05/02	E5RHE1CD
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.61	5.00	5.56	mg/kg	99		SW846 6010B	08/02-08/05/02	E5RHE1CE
	0.61	5.00	5.82	mg/kg	104	4.6	SW846 6010B	08/02-08/05/02	E5RHE1CF
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Lead									
	5.7	50.0	51.8	mg/kg	92		SW846 6010B	08/02-08/05/02	E5RHE1CG
	5.7	50.0	54.1	mg/kg	97	4.4	SW846 6010B	08/02-08/05/02	E5RHE1CH
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Selenium									
	0.56	200	182	mg/kg	91		SW846 6010B	08/02-08/05/02	E5RHE1CJ
	0.56	200	188	mg/kg	94	3.4	SW846 6010B	08/02-08/05/02	E5RHE1CK
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Silver									
	ND	5.00	4.71	mg/kg	94		SW846 6010B	08/02-08/05/02	E5RHE1CL
	ND	5.00	4.93	mg/kg	99	4.6	SW846 6010B	08/02-08/05/02	E5RHE1CM
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Cobalt									
	10.2	50.0	55.5	mg/kg	91		SW846 6010B	08/02-08/05/02	E5RHE1CN
	10.2	50.0	58.5	mg/kg	97	5.4	SW846 6010B	08/02-08/05/02	E5RHE1CP
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Copper									
	26.3	25.0	49.1	mg/kg	91		SW846 6010B	08/02-08/05/02	E5RHE1CQ
	26.3	25.0	53.7	mg/kg	110	8.9	SW846 6010B	08/02-08/05/02	E5RHE1CR
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E2H010352 **Matrix.....:** SOLID
Date Sampled...: 08/01/02 13:00 **Date Received..:** 08/01/02 16:20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	1.1	100	90.0	mg/kg	89		SW846 6010B	08/02-08/05/02	E5RHE1CT
	1.1	100	93.8	mg/kg	93	4.2	SW846 6010B	08/02-08/05/02	E5RHE1CU
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Nickel									
	18.3	50.0	61.6	mg/kg	87		SW846 6010B	08/02-08/05/02	E5RHE1CV
	18.3	50.0	65.2	mg/kg	94	5.8	SW846 6010B	08/02-08/05/02	E5RHE1CW
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Thallium									
	ND	200	189	mg/kg	94		SW846 6010B	08/02-08/05/02	E5RHE1CX
	ND	200	197	mg/kg	98	4.2	SW846 6010B	08/02-08/05/02	E5RHE1C0
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Vanadium									
	51.2	50.0	95.9	mg/kg	90		SW846 6010B	08/02-08/05/02	E5RHE1C1
	51.2	50.0	106	mg/kg	109	9.8	SW846 6010B	08/02-08/05/02	E5RHE1C2
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						
Zinc									
	66.5	50.0	110	mg/kg	86		SW846 6010B	08/02-08/05/02	E5RHE1C3
	66.5	50.0	120	mg/kg	106	8.8	SW846 6010B	08/02-08/05/02	E5RHE1C4
			Dilution Factor: 1						
			Analysis Time..: 14:04		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 2214071						

MS Lot-Sample #: E2H010352-016 **Prep Batch #...:** 2214226

Mercury									
	0.020	0.167	0.223 N	mg/kg	122		SW846 7471A	08/02/02	E5RHE1C5
	0.020	0.167	0.235 N	mg/kg	129	5.1	SW846 7471A	08/02/02	E5RHE1C6
			Dilution Factor: 1						
			Analysis Time..: 14:01		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 2214073						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

EXECUTIVE SUMMARY - Detection Highlights

E3A100316

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB1005_SS55_0001 01/10/03 09:15 002				
Trichloroethene	6.7	5.0	ug/kg	SW846 8260B
SB1006_SS45_0001 01/10/03 10:50 003				
Tetrahydrofuran	7.4 J,B	20	ug/kg	SW846 8260B
SB1006_SS55_0001 01/10/03 11:00 004				
Tetrahydrofuran	34 J,B	100	ug/kg	SW846 8260B
Trichloroethene	370	25	ug/kg	SW846 8260B

METHODS SUMMARY

E3A100316

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E3A100316

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FFXQ1	001	SB1005_SS45_0001	01/10/03	09:00
FFXRV	002	SB1005_SS55_0001	01/10/03	09:15
FFXR2	003	SB1006_SS45_0001	01/10/03	10:50
FFXR5	004	SB1006_SS55_0001	01/10/03	11:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

HALEY & ALDRICH INC

Client Sample ID: SB1005_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-001 Work Order #...: FFXQ11AA Matrix.....: SOLID
Date Sampled...: 01/10/03 09:00 Date Received..: 01/10/03 13:35 MS Run #.....: 3015137
Prep Date.....: 01/14/03 Analysis Date..: 01/14/03
Prep Batch #...: 3015268 Analysis Time..: 21:31
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1005_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-001 Work Order #...: FFXQ11AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(60 - 130)
1,2-Dichloroethane-d4	91	(60 - 140)
Toluene-d8	88	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SB1005_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-002 **Work Order #...:** FFXRV1AA **Matrix.....:** SOLID
Date Sampled...: 01/10/03 09:15 **Date Received..:** 01/10/03 13:35 **MS Run #.....:** 3015137
Prep Date.....: 01/14/03 **Analysis Date..:** 01/14/03
Prep Batch #...: 3015268 **Analysis Time..:** 22:01
Dilution Factor: 1
Analyst ID.....: 999998 **Instrument ID..:** MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	ND	20	ug/kg	2.0
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	**6.7**	**5.0**	**ug/kg**	**2.0**
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1005_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-002 Work Order #...: FFXRV1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	84	(60 - 130)
1,2-Dichloroethane-d4	87	(60 - 140)
Toluene-d8	82	(60 - 130)

HALEY & ALDRICH INC

Client Sample ID: SB1006_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-003 Work Order #...: FFXR21AA Matrix.....: SOLID
Date Sampled...: 01/10/03 10:50 Date Received..: 01/10/03 13:35 MS Run #.....: 3015137
Prep Date.....: 01/14/03 Analysis Date..: 01/14/03
Prep Batch #...: 3015268 Analysis Time..: 22:31
Dilution Factor: 1
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	10	ug/kg	1.0
Chloromethane	ND	10	ug/kg	3.0
Vinyl chloride	ND	10	ug/kg	2.0
Bromomethane	ND	10	ug/kg	8.0
1,2-Dibromoethane	ND	5.0	ug/kg	3.0
Chloroethane	ND	10	ug/kg	2.0
Trichlorofluoromethane	ND	10	ug/kg	2.0
Acrolein	ND	100	ug/kg	30
1,1-Dichloroethene	ND	5.0	ug/kg	2.0
Iodomethane	ND	10	ug/kg	10
Acetone	ND	25	ug/kg	15
Carbon disulfide	ND	5.0	ug/kg	3.0
Methylene chloride	ND	5.0	ug/kg	3.0
trans-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
Acrylonitrile	ND	100	ug/kg	40
Methyl tert-butyl ether	ND	5.0	ug/kg	1.0
1,1-Dichloroethane	ND	5.0	ug/kg	1.0
Vinyl acetate	ND	10	ug/kg	5.0
2,2-Dichloropropane	ND	5.0	ug/kg	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/kg	2.0
2-Butanone	ND	25	ug/kg	15
Bromochloromethane	ND	5.0	ug/kg	1.0
Chloroform	ND	5.0	ug/kg	1.0
Tetrahydrofuran	**7.4 J,B**	**20**	**ug/kg**	**2.0**
1,1,1-Trichloroethane	ND	5.0	ug/kg	1.0
1,1-Dichloropropene	ND	5.0	ug/kg	1.0
Carbon tetrachloride	ND	5.0	ug/kg	1.0
Benzene	ND	5.0	ug/kg	2.0
1,2-Dichloroethane	ND	5.0	ug/kg	1.0
Trichloroethene	ND	5.0	ug/kg	2.0
1,2-Dichloropropane	ND	5.0	ug/kg	1.0
Bromodichloromethane	ND	5.0	ug/kg	1.0
2-Chloroethyl vinyl ether	ND	10	ug/kg	5.0
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1.0
4-Methyl-2-pentanone	ND	25	ug/kg	10
Toluene	ND	5.0	ug/kg	2.0
trans-1,3-Dichloropropene	ND	5.0	ug/kg	3.0

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HALEY & ALDRICH INC

Client Sample ID: SB1006_SS45_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-003 Work Order #...: FFXR21AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	5.0	ug/kg	3.0
Tetrachloroethene	ND	5.0	ug/kg	2.0
2-Hexanone	ND	25	ug/kg	10
Dibromochloromethane	ND	5.0	ug/kg	1.0
Chlorobenzene	ND	5.0	ug/kg	2.0
Ethylbenzene	ND	5.0	ug/kg	2.0
Xylenes (total)	ND	5.0	ug/kg	3.0
Styrene	ND	10	ug/kg	2.0
Bromoform	ND	5.0	ug/kg	3.0
Isopropylbenzene	ND	5.0	ug/kg	2.0
p-Isopropyltoluene	ND	5.0	ug/kg	2.0
Bromobenzene	ND	5.0	ug/kg	2.0
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	3.0
1,2,3-Trichloropropane	ND	5.0	ug/kg	3.0
n-Propylbenzene	ND	5.0	ug/kg	2.0
2-Chlorotoluene	ND	5.0	ug/kg	2.0
4-Chlorotoluene	ND	5.0	ug/kg	2.0
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	2.0
tert-Butylbenzene	ND	5.0	ug/kg	2.0
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	2.0
sec-Butylbenzene	ND	5.0	ug/kg	2.0
1,3-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,4-Dichlorobenzene	ND	5.0	ug/kg	2.0
1,2-Dichlorobenzene	ND	5.0	ug/kg	2.0
n-Butylbenzene	ND	5.0	ug/kg	2.0
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	2.0
Hexachlorobutadiene	ND	5.0	ug/kg	2.0
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	2.0
t-Butanol	ND	100	ug/kg	50
Isopropyl ether	ND	10	ug/kg	1.0
Tert-amyl methyl ether	ND	10	ug/kg	2.0
Tert-butyl ethyl ether	ND	10	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(60 - 130)
1,2-Dichloroethane-d4	95	(60 - 140)
Toluene-d8	93	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

HALEY & ALDRICH INC

Client Sample ID: SB1006_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-004 Work Order #...: FFXR51AA Matrix.....: SOLID
Date Sampled...: 01/10/03 11:00 Date Received..: 01/10/03 13:35 MS Run #.....: 3015137
Prep Date.....: 01/14/03 Analysis Date..: 01/14/03
Prep Batch #...: 3015268 Analysis Time..: 23:01
Dilution Factor: 5
Analyst ID.....: 999998 Instrument ID..: MSD
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	50	ug/kg	5.0
Chloromethane	ND	50	ug/kg	15
Vinyl chloride	ND	50	ug/kg	10
Bromomethane	ND	50	ug/kg	40
1,2-Dibromoethane	ND	25	ug/kg	15
Chloroethane	ND	50	ug/kg	10
Trichlorofluoromethane	ND	50	ug/kg	10
Acrolein	ND	500	ug/kg	150
1,1-Dichloroethene	ND	25	ug/kg	10
Iodomethane	ND	50	ug/kg	50
Acetone	ND	120	ug/kg	75
Carbon disulfide	ND	25	ug/kg	15
Methylene chloride	ND	25	ug/kg	15
trans-1,2-Dichloroethene	ND	25	ug/kg	10
Acrylonitrile	ND	500	ug/kg	200
Methyl tert-butyl ether	ND	25	ug/kg	5.0
1,1-Dichloroethane	ND	25	ug/kg	5.0
Vinyl acetate	ND	50	ug/kg	25
2,2-Dichloropropane	ND	25	ug/kg	10
cis-1,2-Dichloroethene	ND	25	ug/kg	10
2-Butanone	ND	120	ug/kg	75
Bromochloromethane	ND	25	ug/kg	5.0
Chloroform	ND	25	ug/kg	5.0
Tetrahydrofuran	**34 J,B**	**100**	**ug/kg**	**10**
1,1,1-Trichloroethane	ND	25	ug/kg	5.0
1,1-Dichloropropene	ND	25	ug/kg	5.0
Carbon tetrachloride	ND	25	ug/kg	5.0
Benzene	ND	25	ug/kg	10
1,2-Dichloroethane	ND	25	ug/kg	5.0
Trichloroethene	**370**	**25**	**ug/kg**	**10**
1,2-Dichloropropane	ND	25	ug/kg	5.0
Bromodichloromethane	ND	25	ug/kg	5.0
2-Chloroethyl vinyl ether	ND	50	ug/kg	25
cis-1,3-Dichloropropene	ND	25	ug/kg	5.0
4-Methyl-2-pentanone	ND	120	ug/kg	50
Toluene	ND	25	ug/kg	10
trans-1,3-Dichloropropene	ND	25	ug/kg	15

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HALEY & ALDRICH INC

Client Sample ID: SB1006_SS55_0001

GC/MS Volatiles

Lot-Sample #...: E3A100316-004 **Work Order #...:** FFXR51AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2-Trichloroethane	ND	25	ug/kg	15
Tetrachloroethene	ND	25	ug/kg	10
2-Hexanone	ND	120	ug/kg	50
Dibromochloromethane	ND	25	ug/kg	5.0
Chlorobenzene	ND	25	ug/kg	10
Ethylbenzene	ND	25	ug/kg	10
Xylenes (total)	ND	25	ug/kg	15
Styrene	ND	50	ug/kg	10
Bromoform	ND	25	ug/kg	15
Isopropylbenzene	ND	25	ug/kg	10
p-Isopropyltoluene	ND	25	ug/kg	10
Bromobenzene	ND	25	ug/kg	10
1,1,1,2-Tetrachloroethane	ND	25	ug/kg	15
1,1,2,2-Tetrachloroethane	ND	25	ug/kg	15
1,2,3-Trichloropropane	ND	25	ug/kg	15
n-Propylbenzene	ND	25	ug/kg	10
2-Chlorotoluene	ND	25	ug/kg	10
4-Chlorotoluene	ND	25	ug/kg	10
1,3,5-Trimethylbenzene	ND	25	ug/kg	10
tert-Butylbenzene	ND	25	ug/kg	10
1,2,4-Trimethylbenzene	ND	25	ug/kg	10
sec-Butylbenzene	ND	25	ug/kg	10
1,3-Dichlorobenzene	ND	25	ug/kg	10
1,4-Dichlorobenzene	ND	25	ug/kg	10
1,2-Dichlorobenzene	ND	25	ug/kg	10
n-Butylbenzene	ND	25	ug/kg	10
1,2-Dibromo-3-chloro-propane	ND	50	ug/kg	15
1,2,4-Trichloro-benzene	ND	25	ug/kg	10
Hexachlorobutadiene	ND	25	ug/kg	10
1,2,3-Trichlorobenzene	ND	25	ug/kg	10
t-Butanol	ND	500	ug/kg	250
Isopropyl ether	ND	50	ug/kg	5.0
Tert-amyl methyl ether	ND	50	ug/kg	10
Tert-butyl ethyl ether	ND	50	ug/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(60 - 130)
1,2-Dichloroethane-d4	96	(60 - 140)
Toluene-d8	92	(60 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

E3A100316

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8260B		3015268	3015137
002	SOLID	SW846 8260B		3015268	3015137
003	SOLID	SW846 8260B		3015268	3015137
004	SOLID	SW846 8260B		3015268	3015137

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3A100316
MB Lot-Sample #: E3A150000-268

Analysis Date..: 01/14/03
Dilution Factor: 1

Work Order #...: FF40R1AA

Prep Date.....: 01/14/03
Prep Batch #...: 3015268

Analyst ID.....: 999998

Matrix.....: SOLID

Analysis Time..: 12:58
Instrument ID..: MSD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Acrolein	ND	100	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Iodomethane	ND	10	ug/kg	SW846 8260B
Acetone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Acrylonitrile	ND	100	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl acetate	ND	10	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Tetrahydrofuran	**6.1 J**	**20**	**ug/kg**	**SW846 8260B**
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	10	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E3A100316 **Work Order #...:** FF40R1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	10	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
t-Butanol	ND	100	ug/kg	SW846 8260B
Isopropyl ether	ND	10	ug/kg	SW846 8260B
Tert-amyl methyl ether	ND	10	ug/kg	SW846 8260B
Tert-butyl ethyl ether	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(60 - 130)
1,2-Dichloroethane-d4	89	(60 - 140)
Toluene-d8	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E3A100316 Work Order #...: FF40R1AC Matrix.....: SOLID
LCS Lot-Sample#: E3A150000-268
Prep Date.....: 01/14/03 Analysis Date..: 01/14/03
Prep Batch #...: 3015268 Analysis Time..: 12:28
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**105**	**(65 - 150)**	**SW846 8260B**
Benzene	**100**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**116**	**(70 - 135)**	**SW846 8260B**
Toluene	**93**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**96**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(60 - 130)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	96	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E3A100316 Work Order #...: FF40R1AC Matrix.....: SOLID
LCS Lot-Sample#: E3A150000-268
Prep Date.....: 01/14/03 Analysis Date..: 01/14/03
Prep Batch #...: 3015268 Analysis Time..: 12:28
Dilution Factor: 1 Instrument ID..: MSD
Analyst ID.....: 999998

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	50.0	52.3	ug/kg	105	SW846 8260B
Benzene	50.0	49.9	ug/kg	100	SW846 8260B
Trichloroethene	50.0	57.8	ug/kg	116	SW846 8260B
Toluene	50.0	46.6	ug/kg	93	SW846 8260B
Chlorobenzene	50.0	48.0	ug/kg	96	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(60 - 130)
1,2-Dichloroethane-d4	92	(60 - 140)
Toluene-d8	96	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E3A100316	Work Order #...:	FFX611AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E3A100364-016		FFX611AD-MSD		
Date Sampled...:	01/10/03 13:00	Date Received..:	01/10/03 17:05	MS Run #.....:	3015137
Prep Date.....:	01/14/03	Analysis Date..:	01/14/03		
Prep Batch #...:	3015268	Analysis Time..:	17:00		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**101**	**(65 - 150)**			**SW846 8260B**
	101	**(65 - 150)**	**0.69**	**(0-30)**	**SW846 8260B**
Benzene	**99**	**(70 - 130)**			**SW846 8260B**
	99	**(70 - 130)**	**0.20**	**(0-30)**	**SW846 8260B**
Trichloroethene	**110**	**(70 - 135)**			**SW846 8260B**
	109	**(70 - 135)**	**0.18**	**(0-30)**	**SW846 8260B**
Toluene	**92**	**(70 - 130)**			**SW846 8260B**
	91	**(70 - 130)**	**1.8**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**92**	**(70 - 130)**			**SW846 8260B**
	90	**(70 - 130)**	**1.7**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(60 - 130)
	98	(60 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
	95	(60 - 140)
Toluene-d8	102	(60 - 130)
	93	(60 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E3A100316	Work Order #...:	FFX611AC-MS	Matrix.....:	SOLID
MS Lot-Sample #:	E3A100364-016		FFX611AD-MSD		
Date Sampled...:	01/10/03 13:00	Date Received..:	01/10/03 17:05	MS Run #.....:	3015137
Prep Date.....:	01/14/03	Analysis Date..:	01/14/03		
Prep Batch #...:	3015268	Analysis Time..:	17:00		
Dilution Factor:	1	Analyst ID.....:	999998	Instrument ID..:	MSD

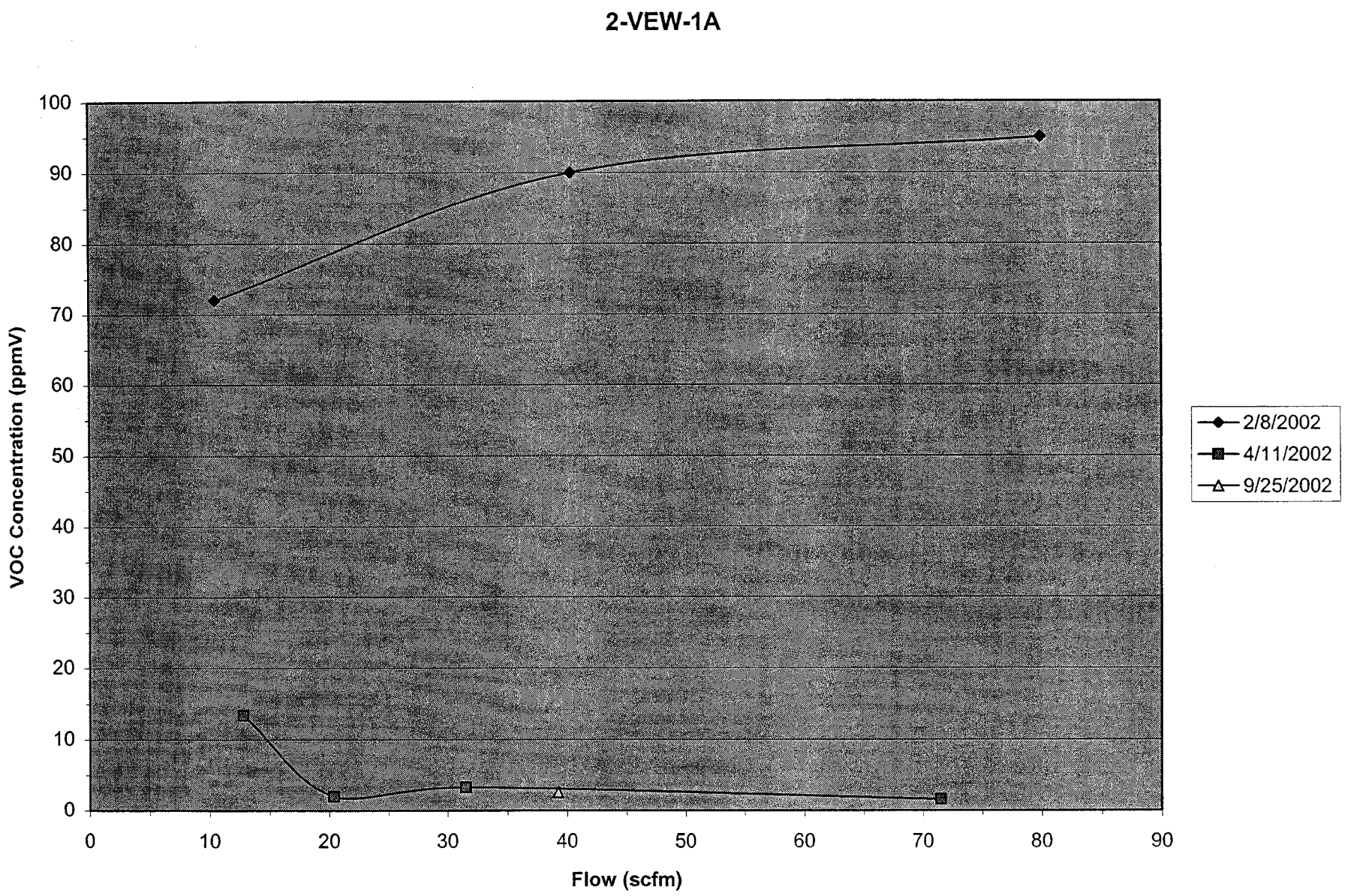
PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	50.0	50.7	ug/kg	101		SW846 8260B
	ND	50.0	50.4	ug/kg	101	0.69	SW846 8260B
Benzene	ND	50.0	49.4	ug/kg	99		SW846 8260B
	ND	50.0	49.4	ug/kg	99	0.20	SW846 8260B
Trichloroethene	ND	50.0	54.8	ug/kg	110		SW846 8260B
	ND	50.0	54.7	ug/kg	109	0.18	SW846 8260B
Toluene	ND	50.0	46.1	ug/kg	92		SW846 8260B
	ND	50.0	45.3	ug/kg	91	1.8	SW846 8260B
Chlorobenzene	ND	50.0	45.8	ug/kg	92		SW846 8260B
	ND	50.0	45.0	ug/kg	90	1.7	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(60 - 130)
	98	(60 - 130)
1,2-Dichloroethane-d4	98	(60 - 140)
	95	(60 - 140)
Toluene-d8	102	(60 - 130)
	93	(60 - 130)

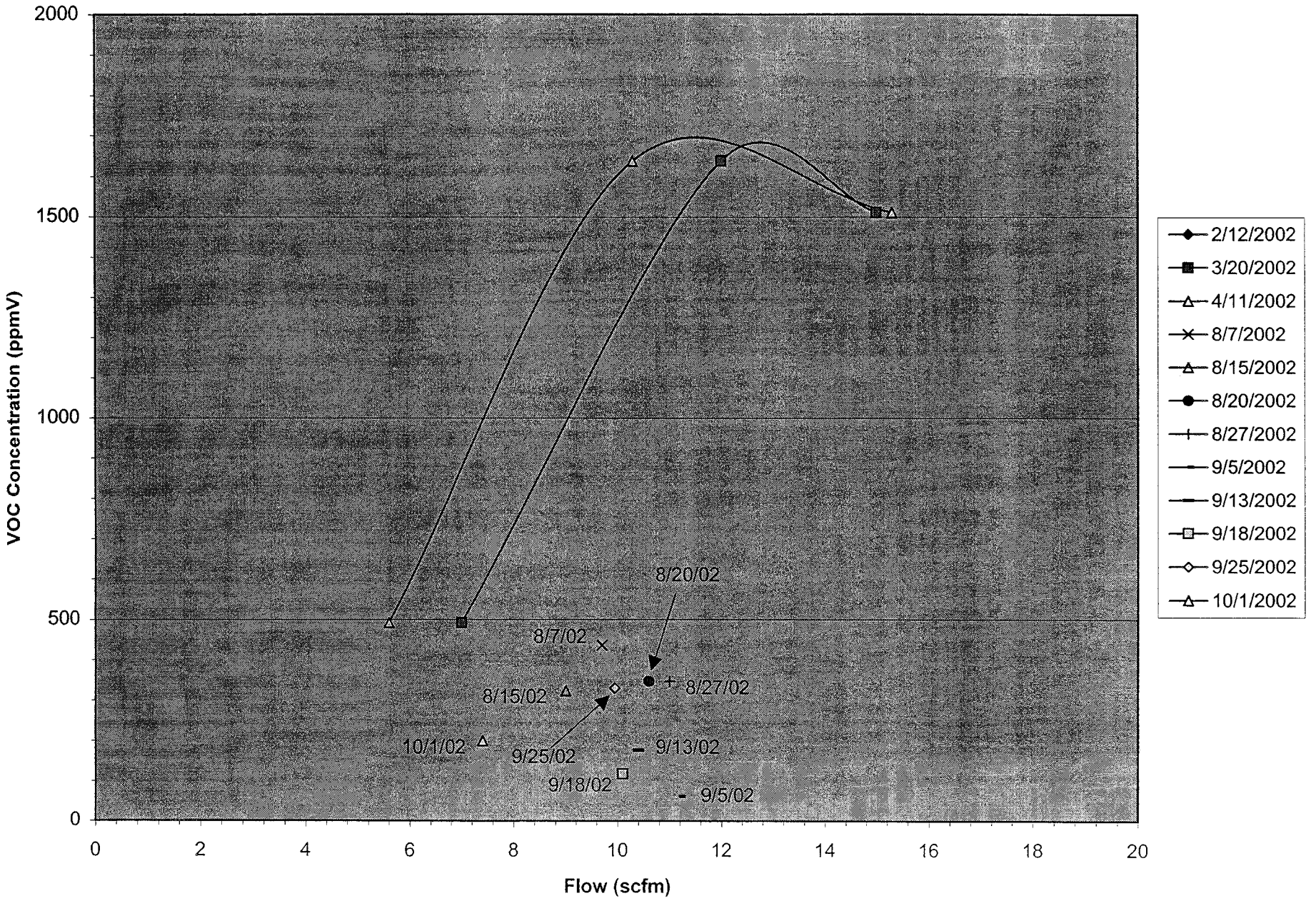
NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

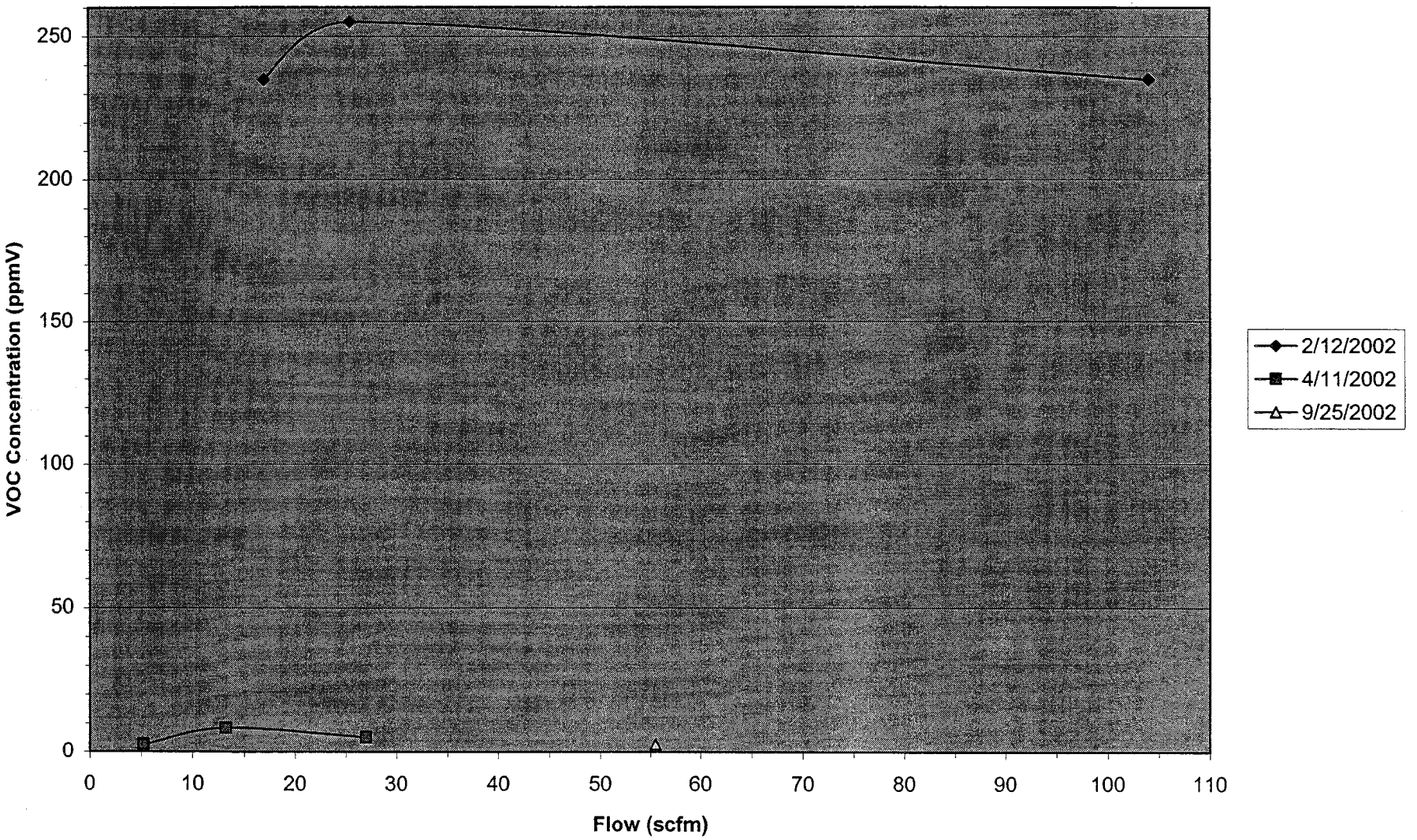

2-VEW-1A
VOC Concentration (ppmV)
100
90
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
Flow (scfm)
2/8/2002
4/11/2002
9/25/2002

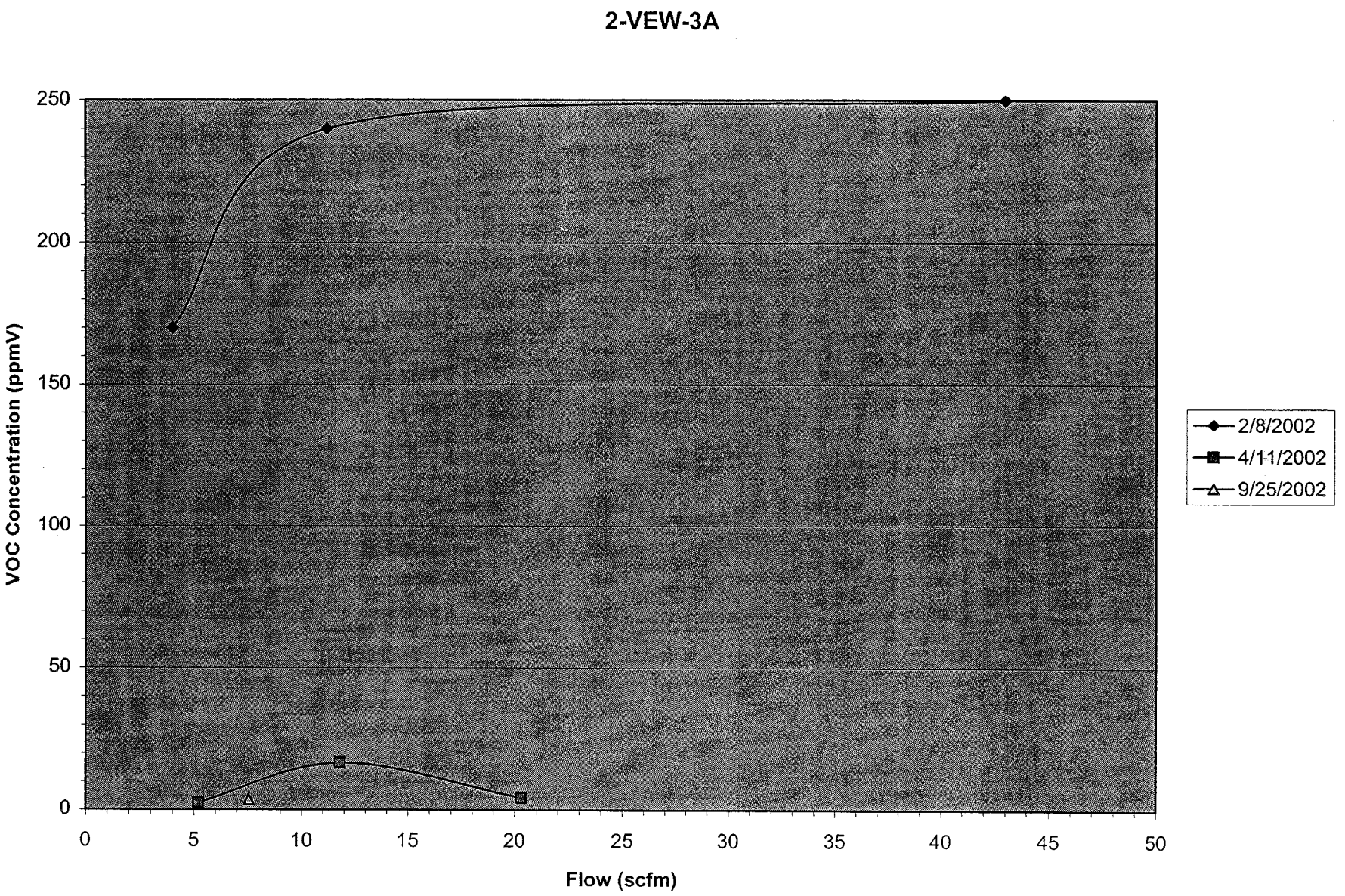
2-VEW-1B

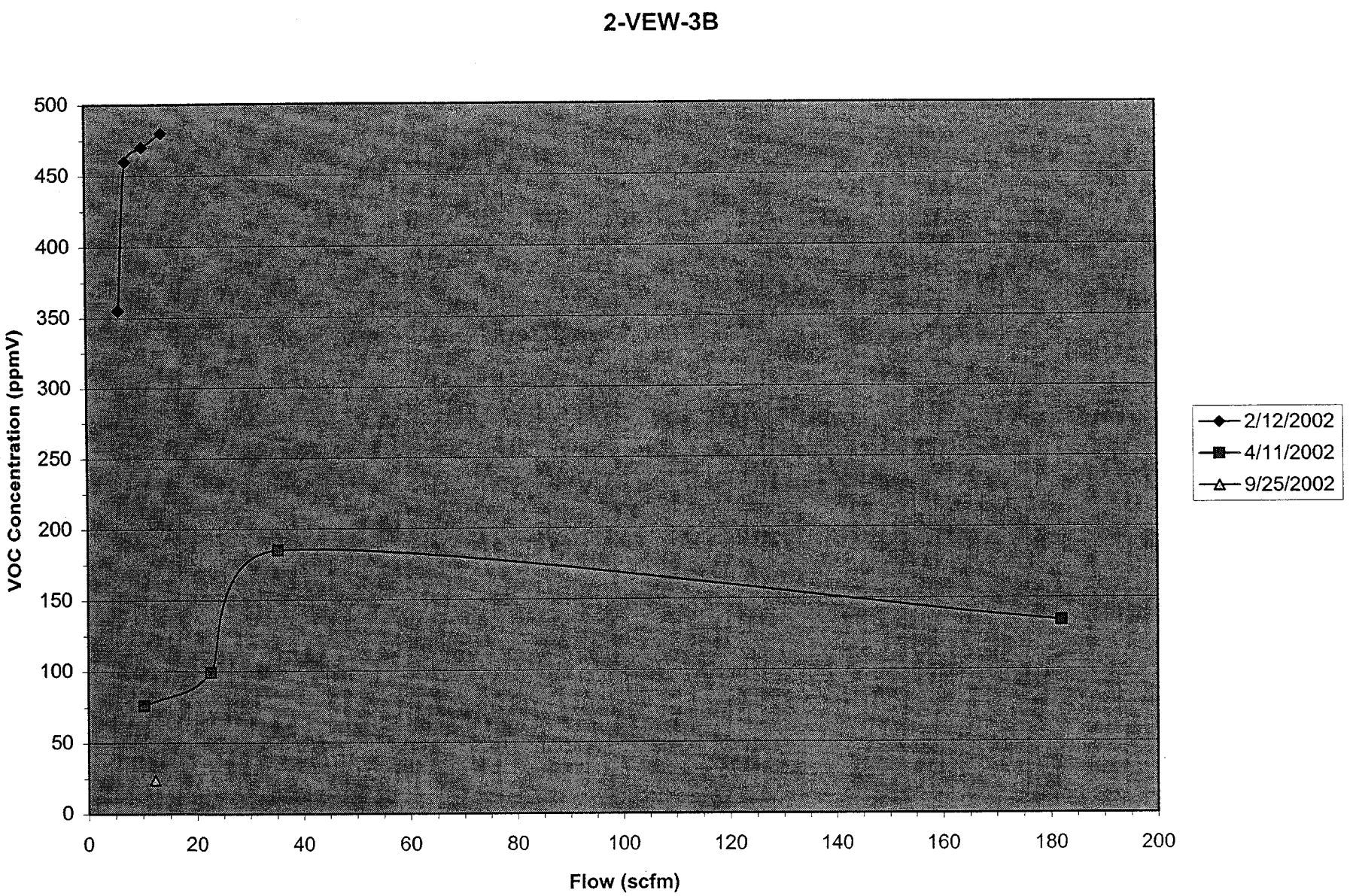


BOE-C6-0103130

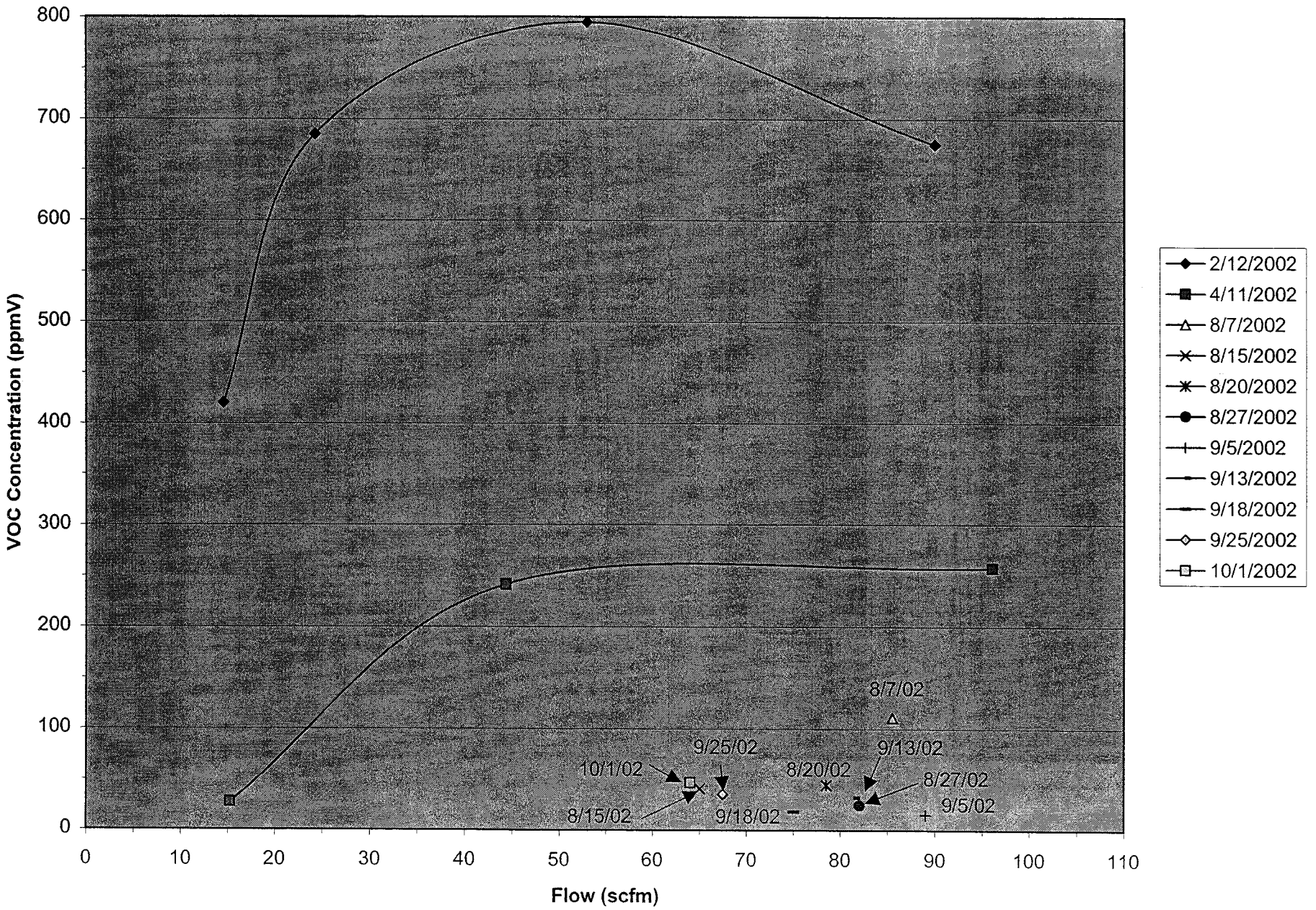
2-VEW-2


VOC Concentration (ppmV)
250
200
150
100
50
0
0
10
20
30
40
50
60
70
80
90
100
110
Flow (scfm)
2/12/2002
4/11/2002
9/25/2002

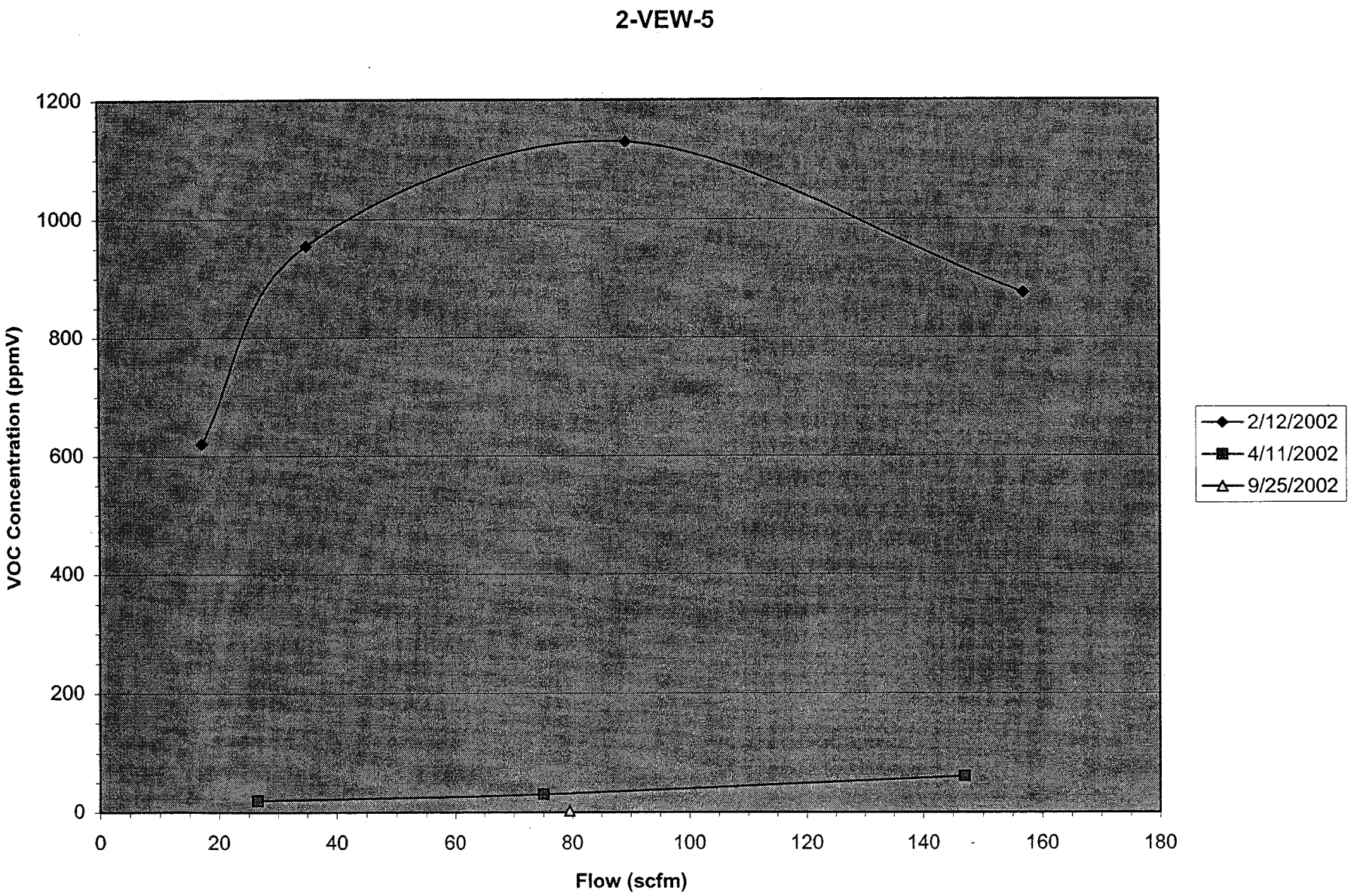

2-VEW-3A
VOC Concentration (ppmV)
250
200
150
100
50
0
0
5
10
15
20
25
30
35
40
45
50
Flow (scfm)
2/8/2002
4/11/2002
9/25/2002

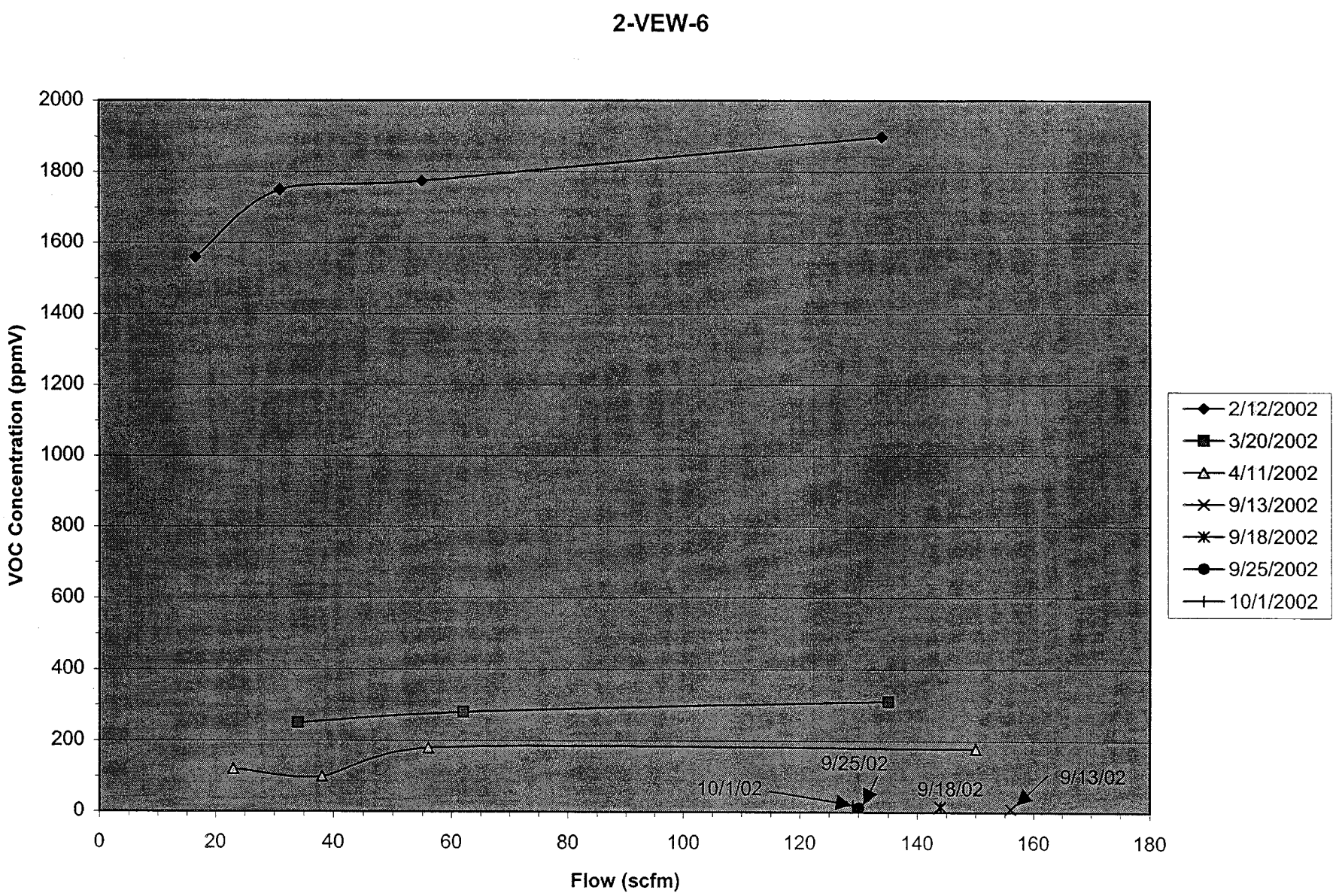

2-VEW-3B
VOC Concentration (ppmV)
500
450
400
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
160
180
200
Flow (scfm)
2/12/2002
4/11/2002
9/25/2002

2-VEW-4

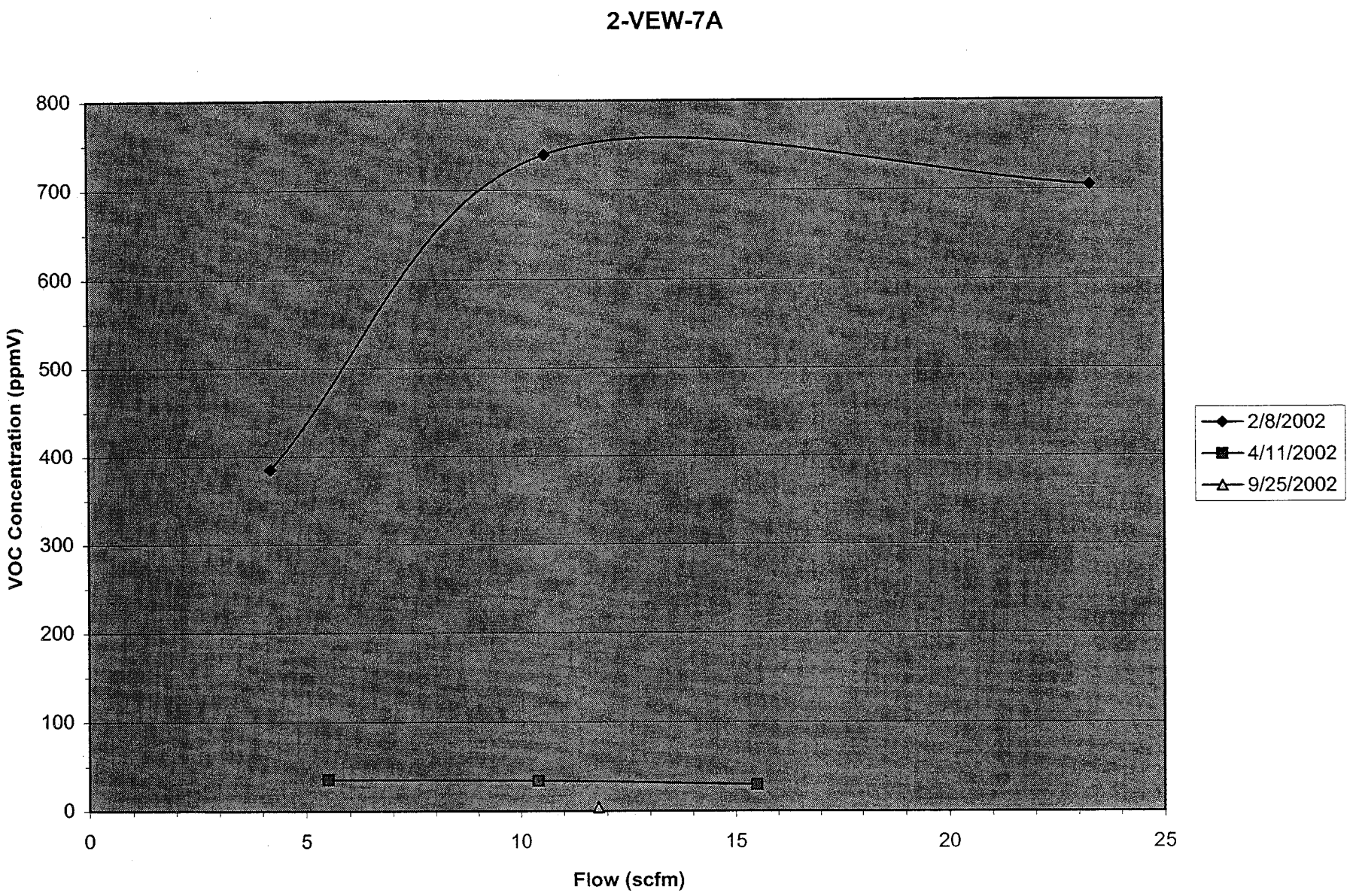


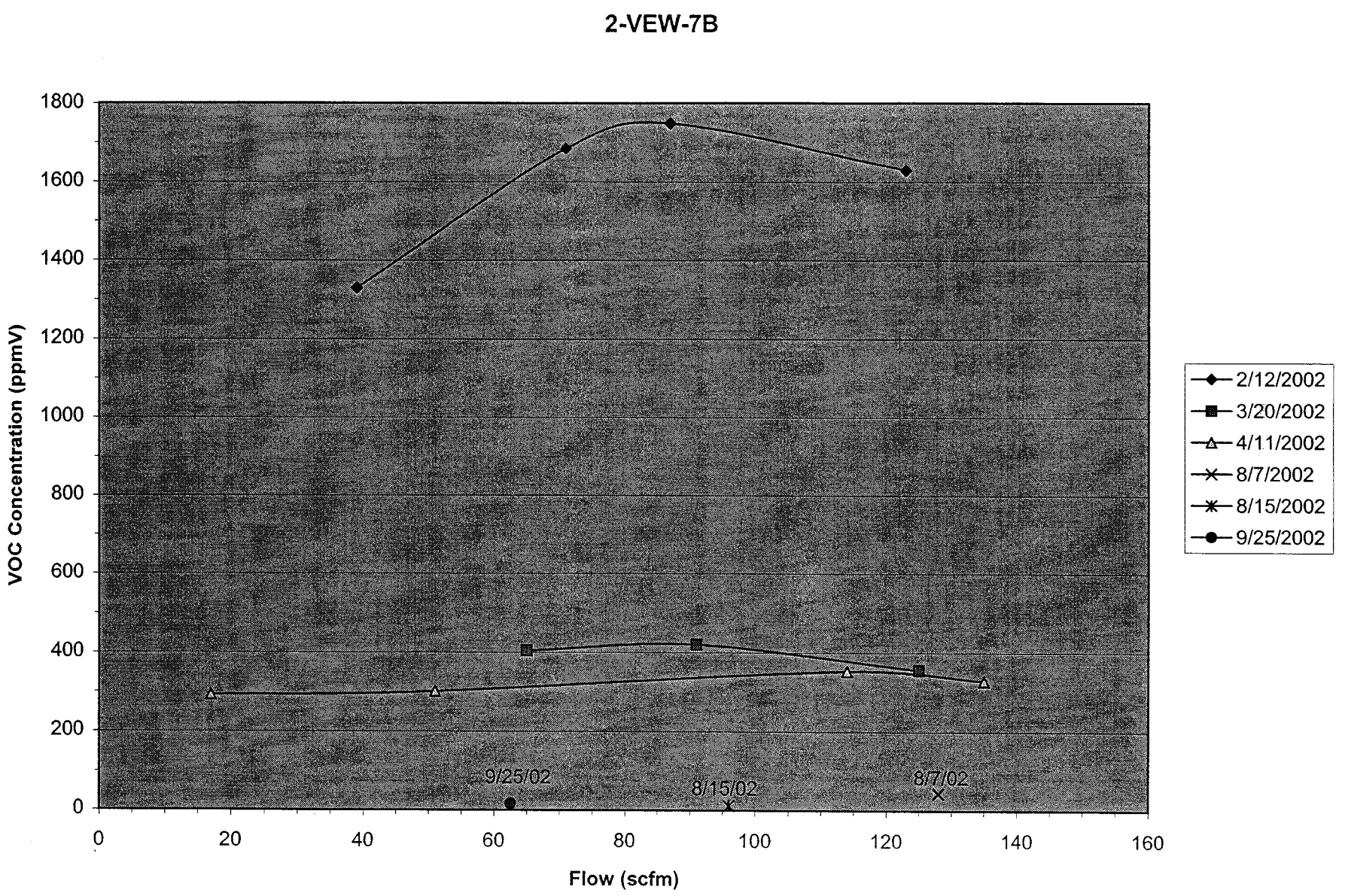
BOE-C6-0103134


2-VEW-5
VOC Concentration (ppmV)
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
180
Flow (scfm)
2/12/2002
4/11/2002
9/25/2002

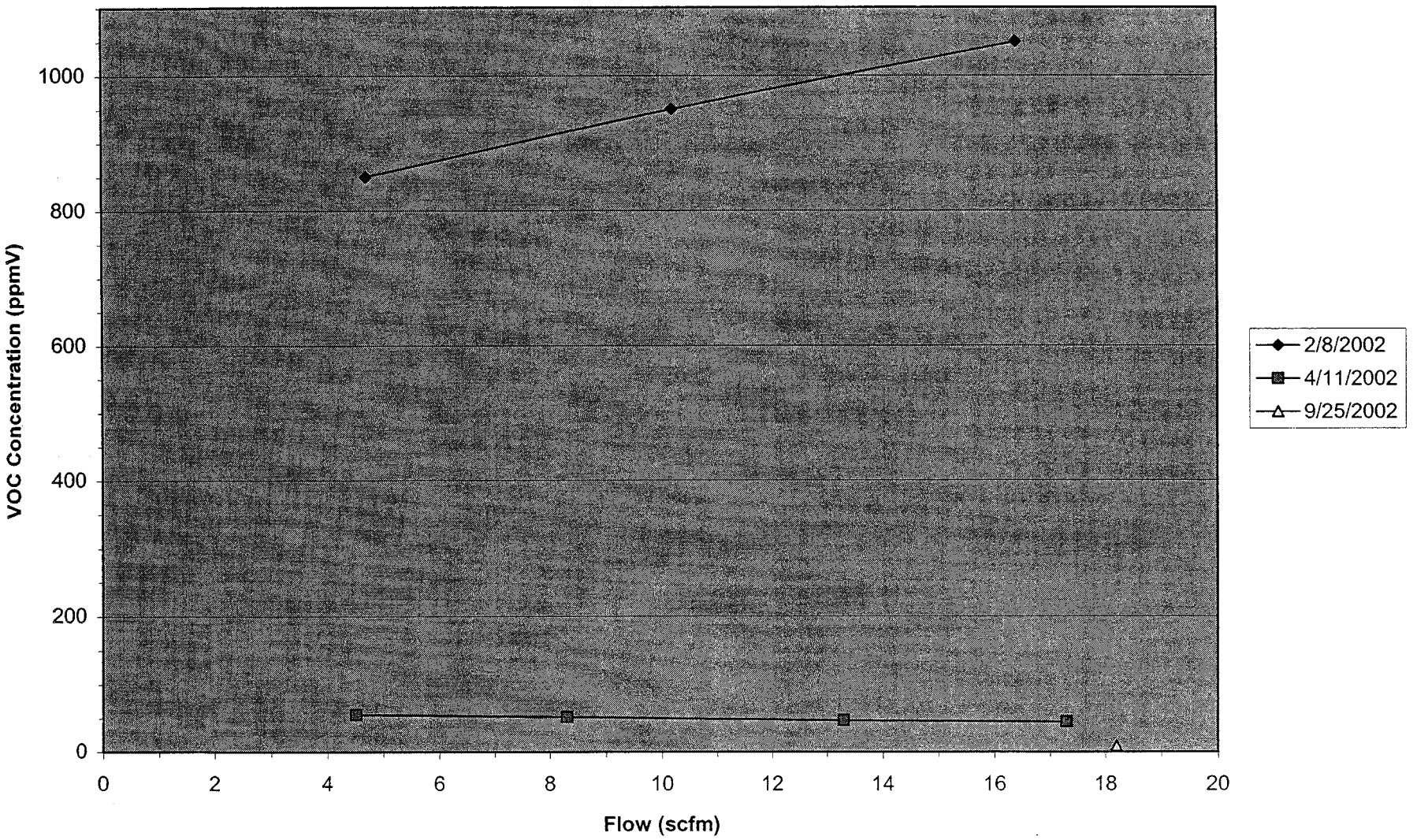


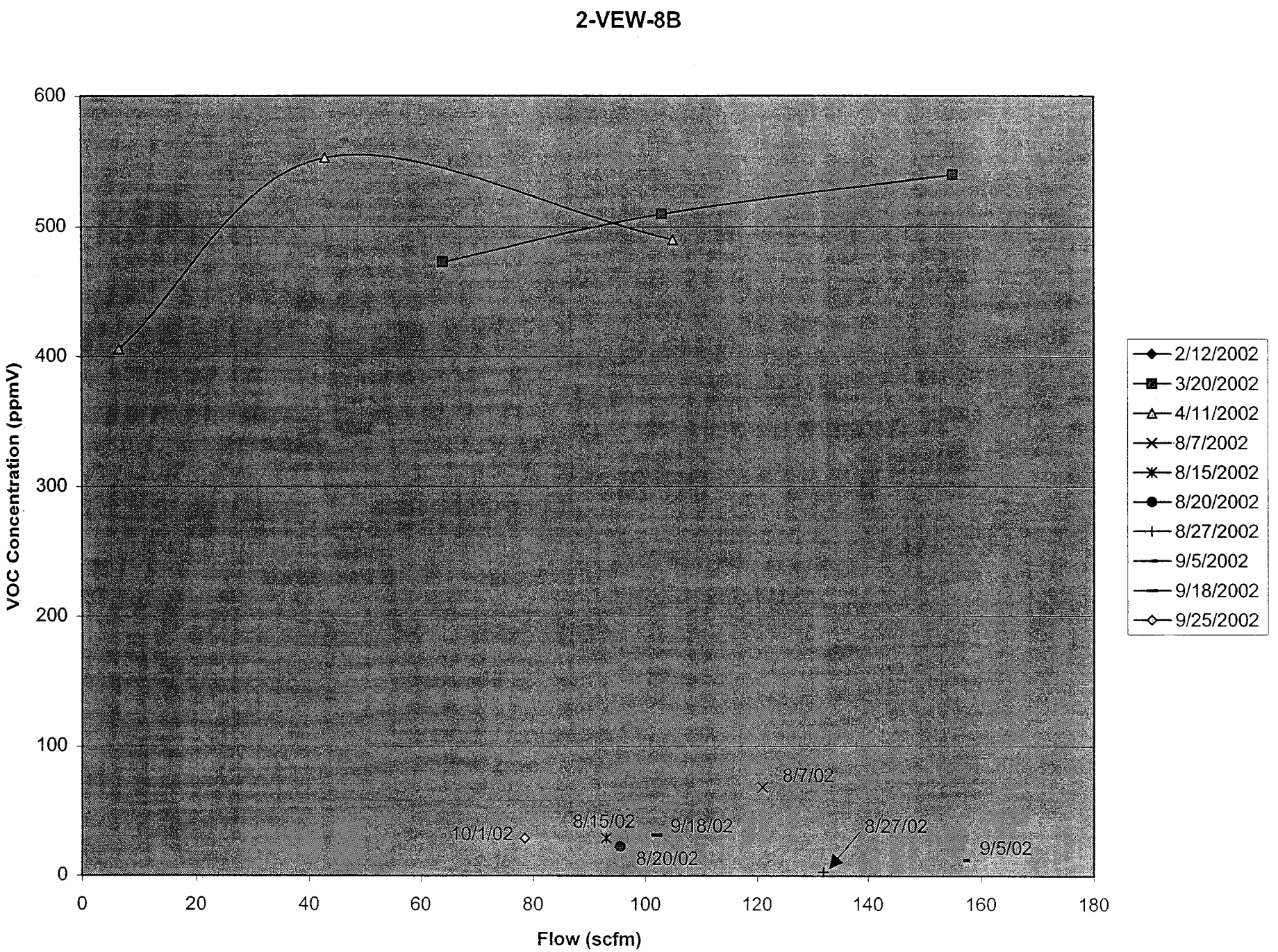
BOE-C6-0103136


2-VEW-7A
VOC Concentration (ppmV)
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
Flow (scfm)
2/8/2002
4/11/2002
9/25/2002

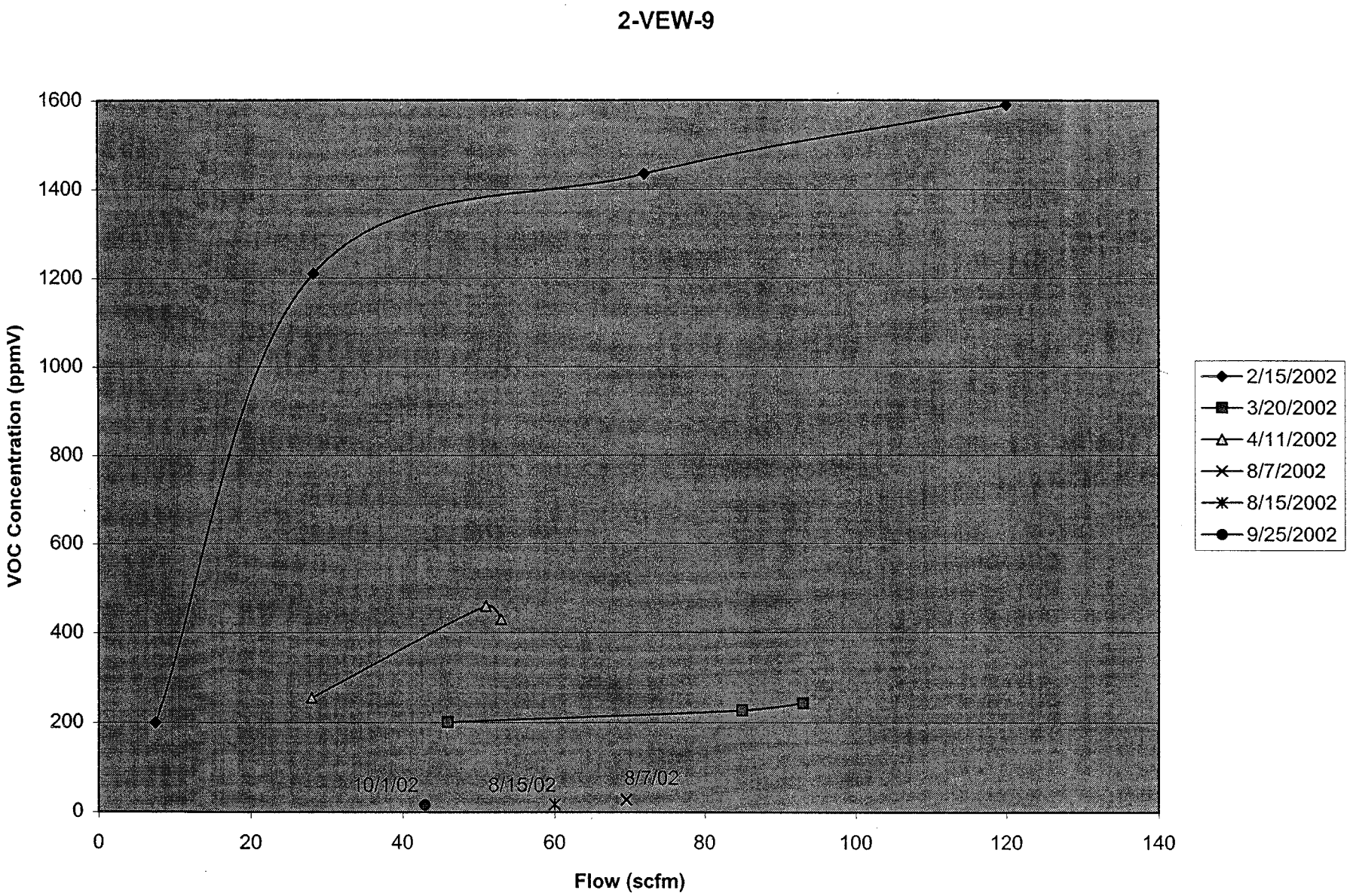

2-VEW-7B
VOC Concentration (ppmV)
1800
1600
1400
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
Flow (scfm)
9/25/02
8/15/02
8/7/02
2/12/2002
3/20/2002
4/11/2002
8/7/2002
8/15/2002
9/25/2002

2-VEW-8A

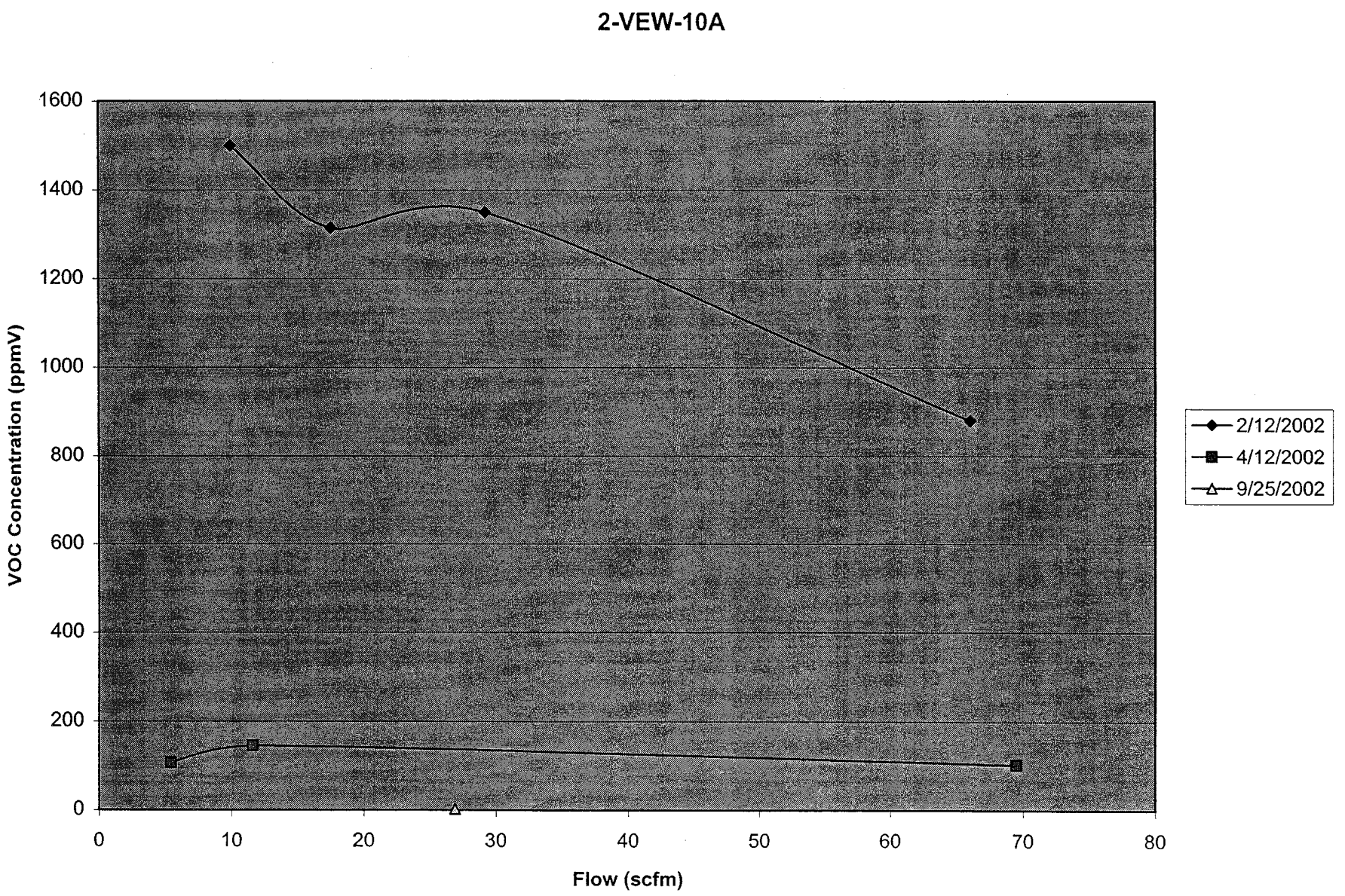

VOC Concentration (ppmV)
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
16
18
20
Flow (scfm)
2/8/2002
4/11/2002
9/25/2002



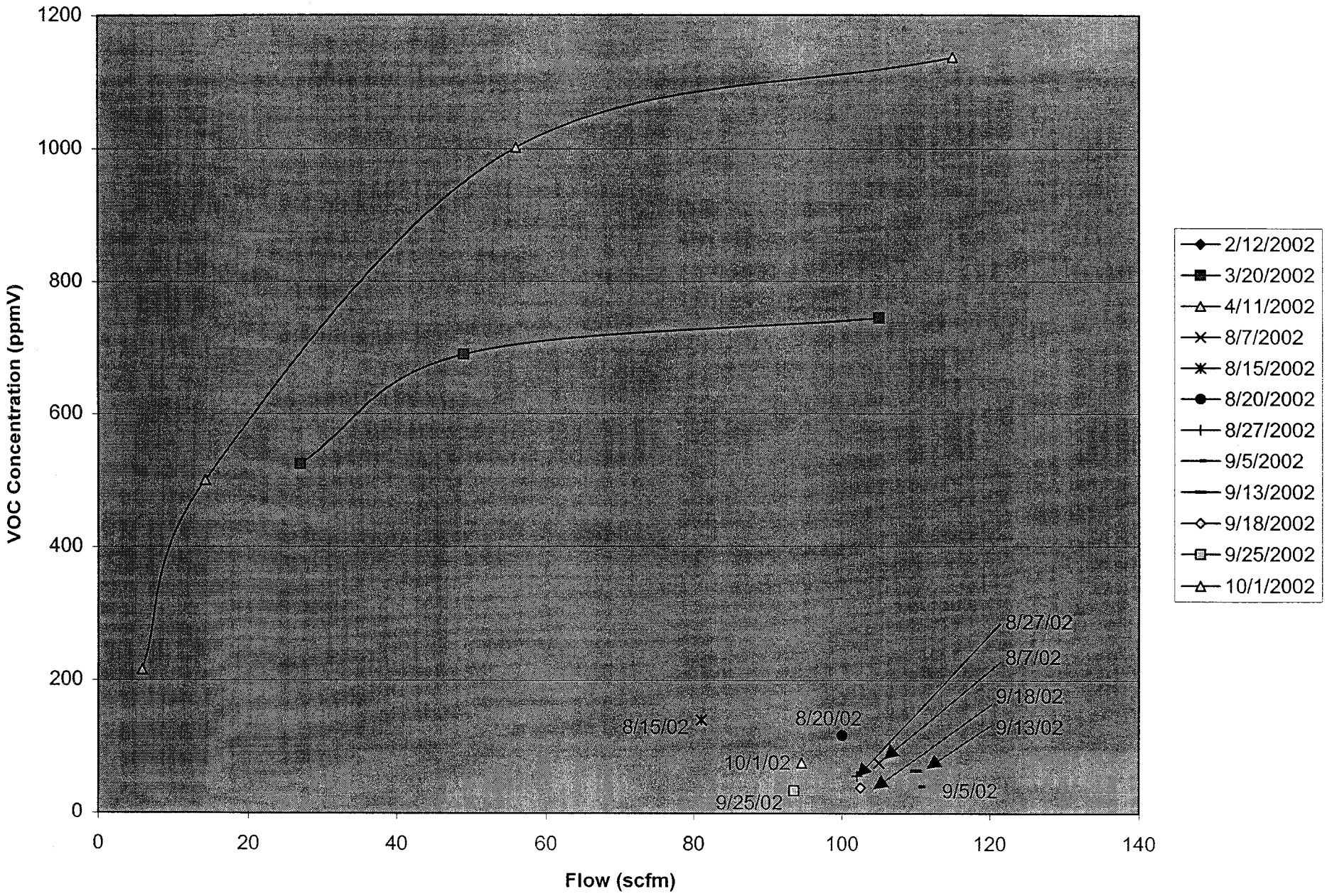
BOE-C6-0103140



BOE-C6-0103141


2-VEW-10A
VOC Concentration (ppmV)
1600
1400
1200
1000
800
600
400
200
0
0
10
20
30
40
50
60
70
80
Flow (scfm)
2/12/2002
4/12/2002
9/25/2002

2-VEW-10B



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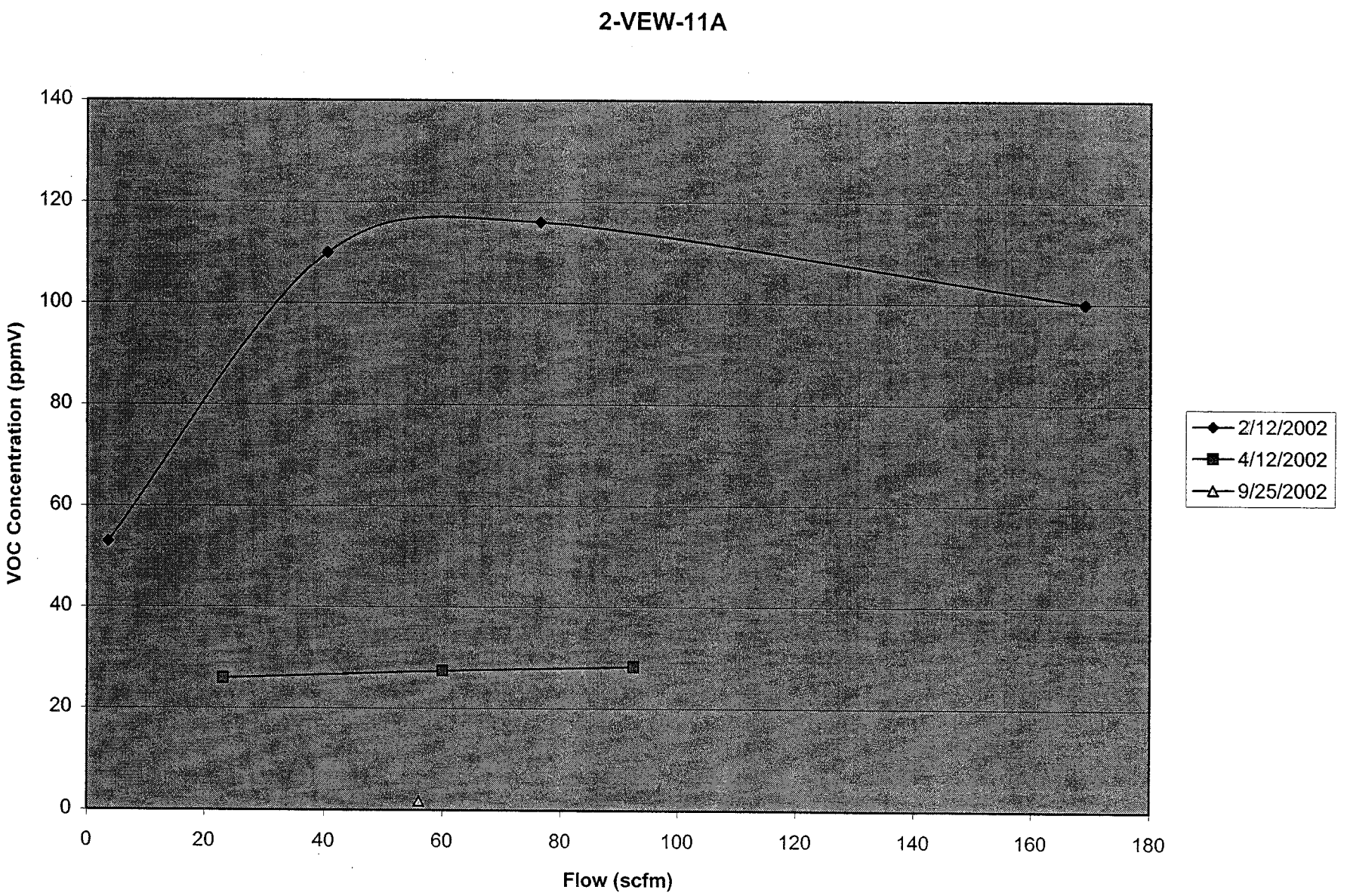
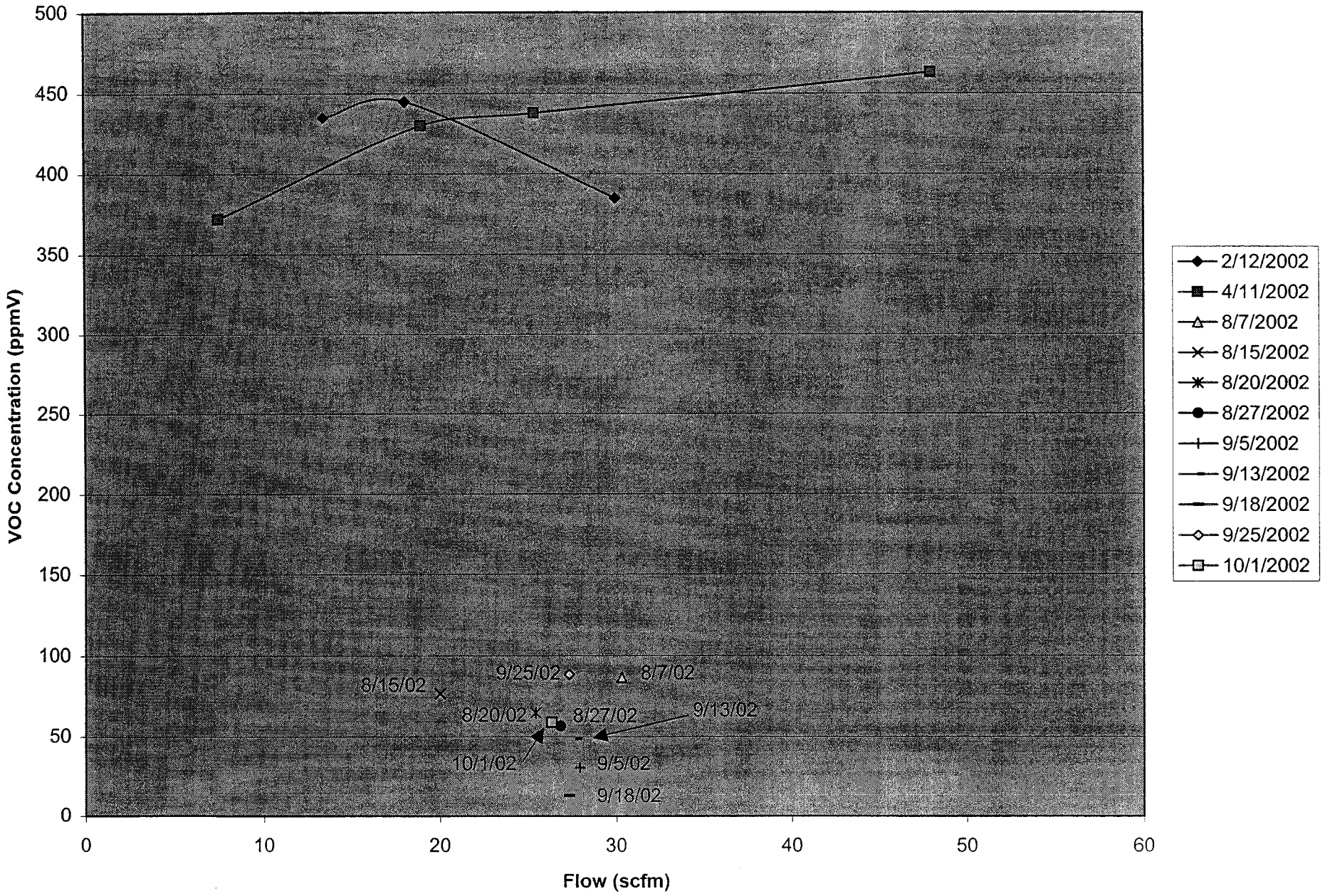
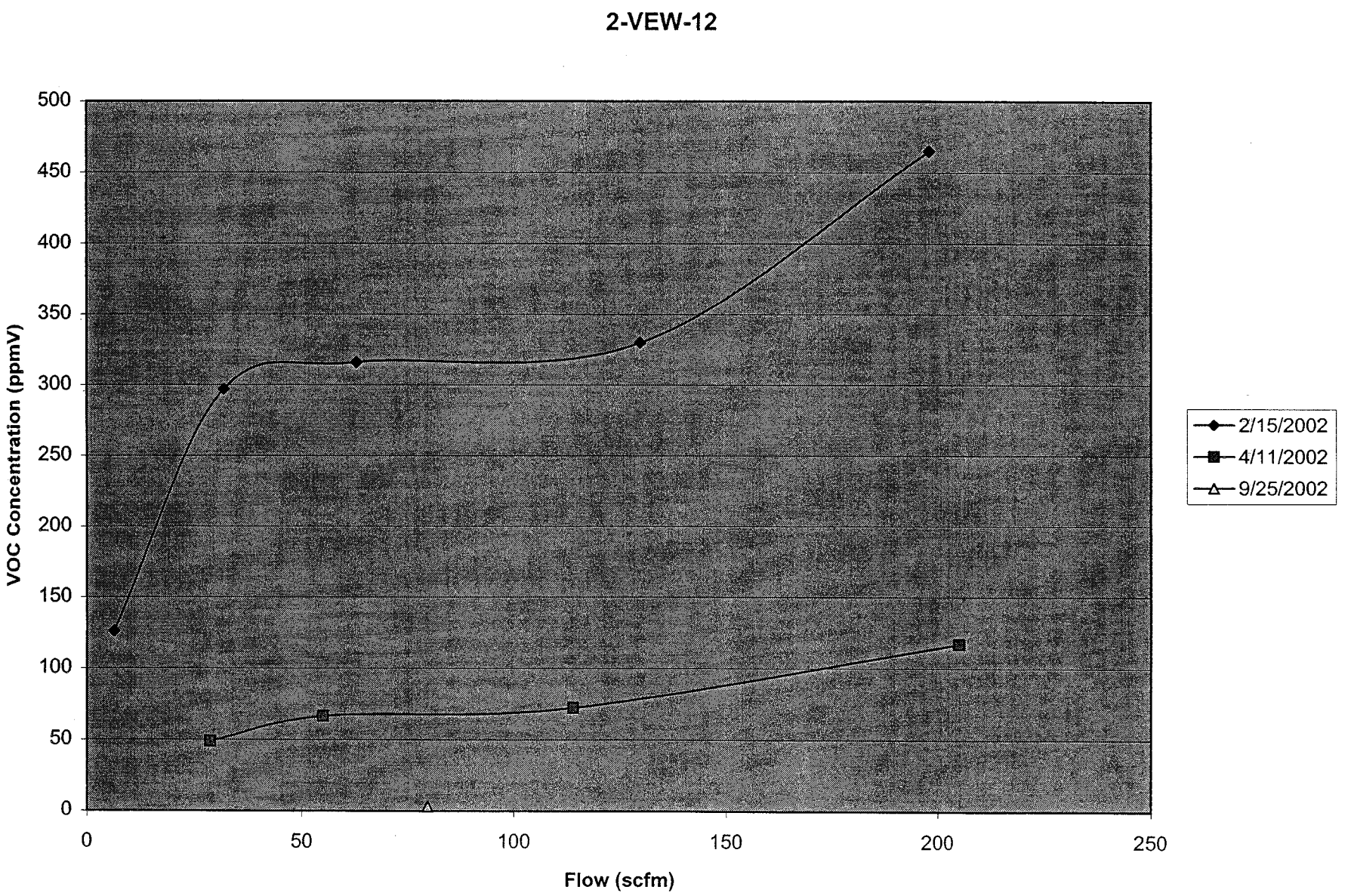
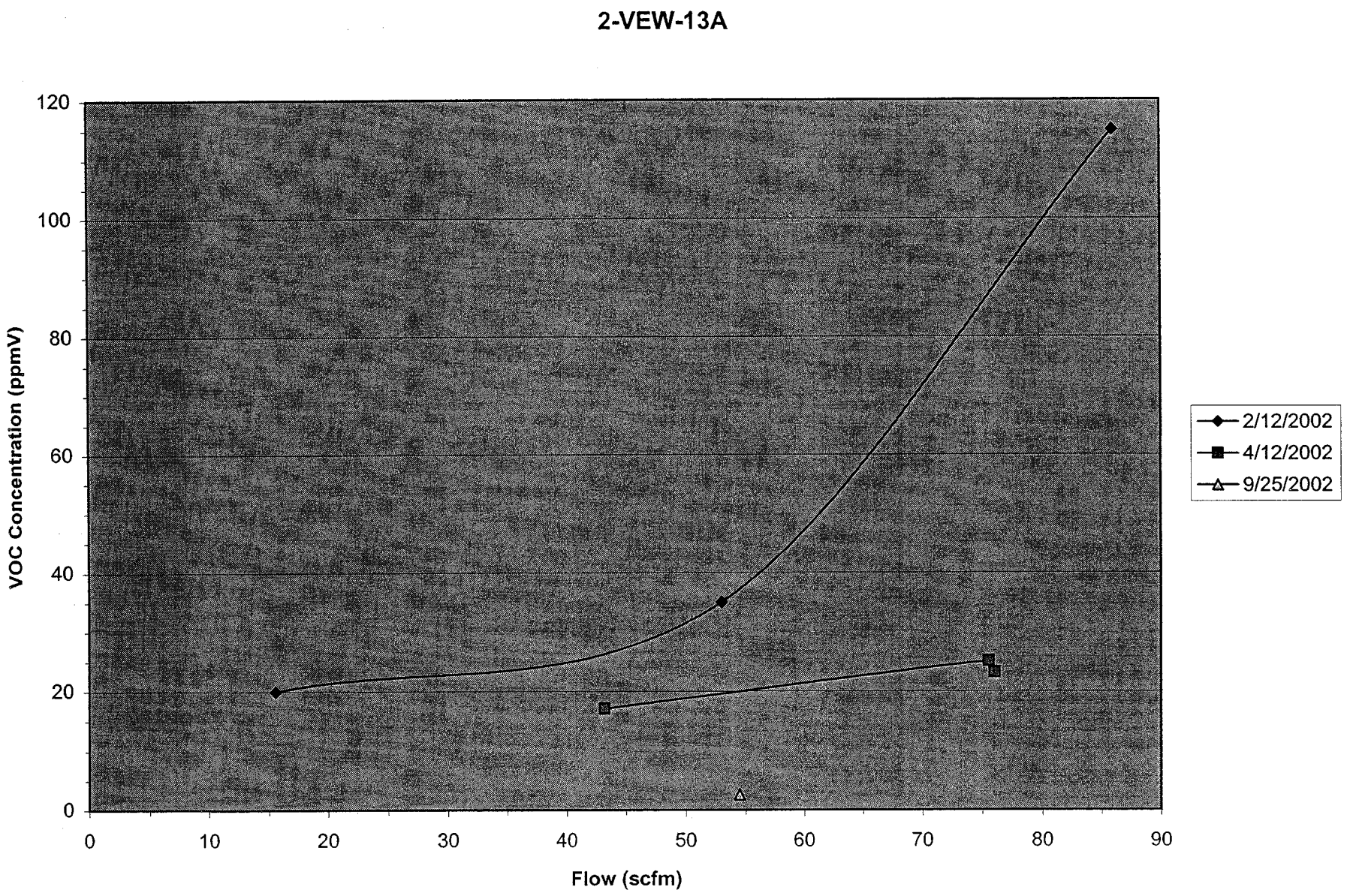

2-VEW-11A
VOC Concentration (ppmV)
Flow (scfm)
0
20
40
60
80
100
120
140
160
180
2/12/2002
4/12/2002
9/25/2002

2-VEW-11B

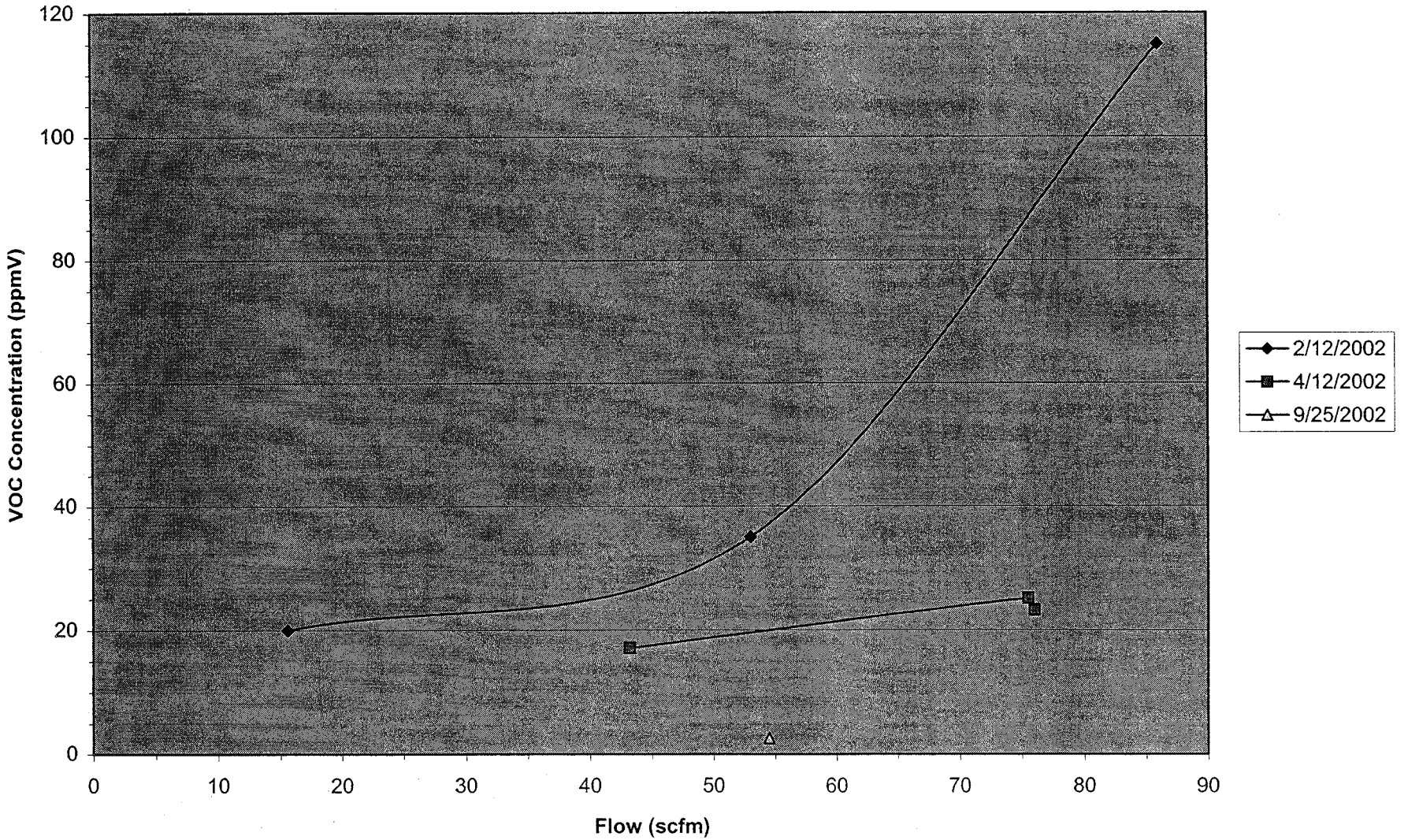


BOE-C6-0103145

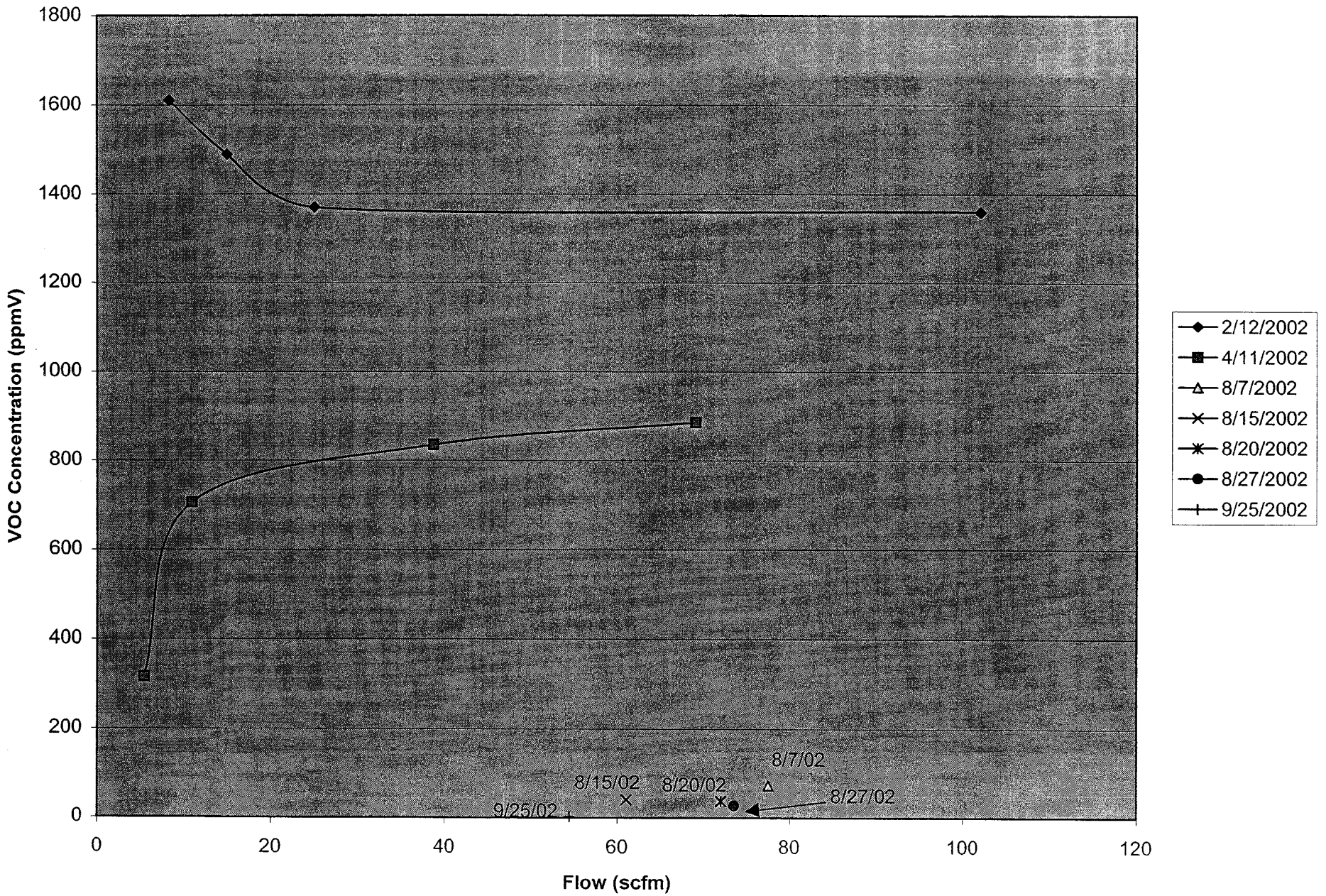

2-VEW-12
VOC Concentration (ppmV)
500
450
400
350
300
250
200
150
100
50
0
0
50
100
150
200
250
Flow (scfm)
2/15/2002
4/11/2002
9/25/2002


2-VEW-13A
VOC Concentration (ppmV)
120
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
90
Flow (scfm)
2/12/2002
4/12/2002
9/25/2002

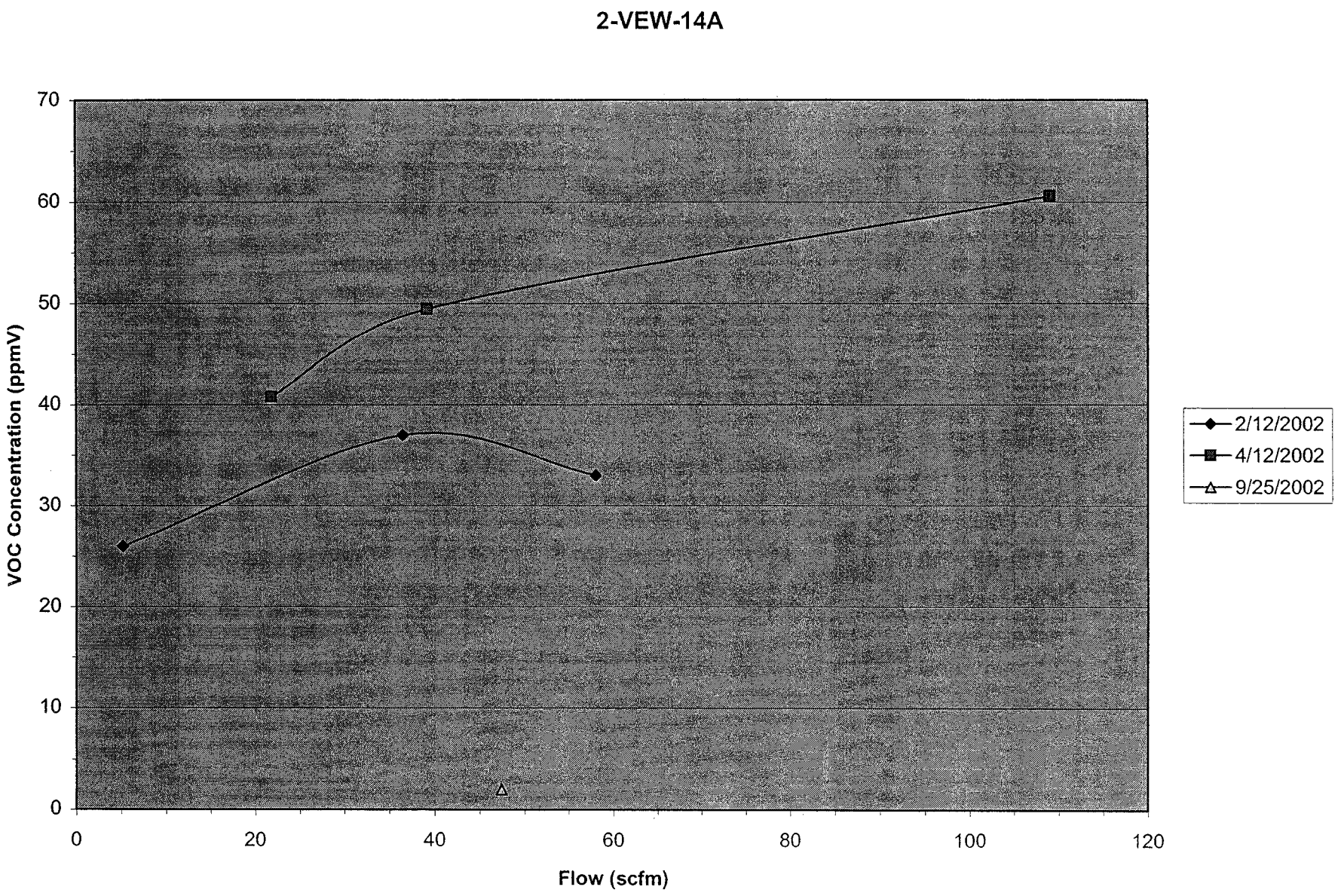
2-VEW-13A


VOC Concentration (ppmV)
120
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
90
Flow (scfm)
2/12/2002
4/12/2002
9/25/2002

2-VEW-13B

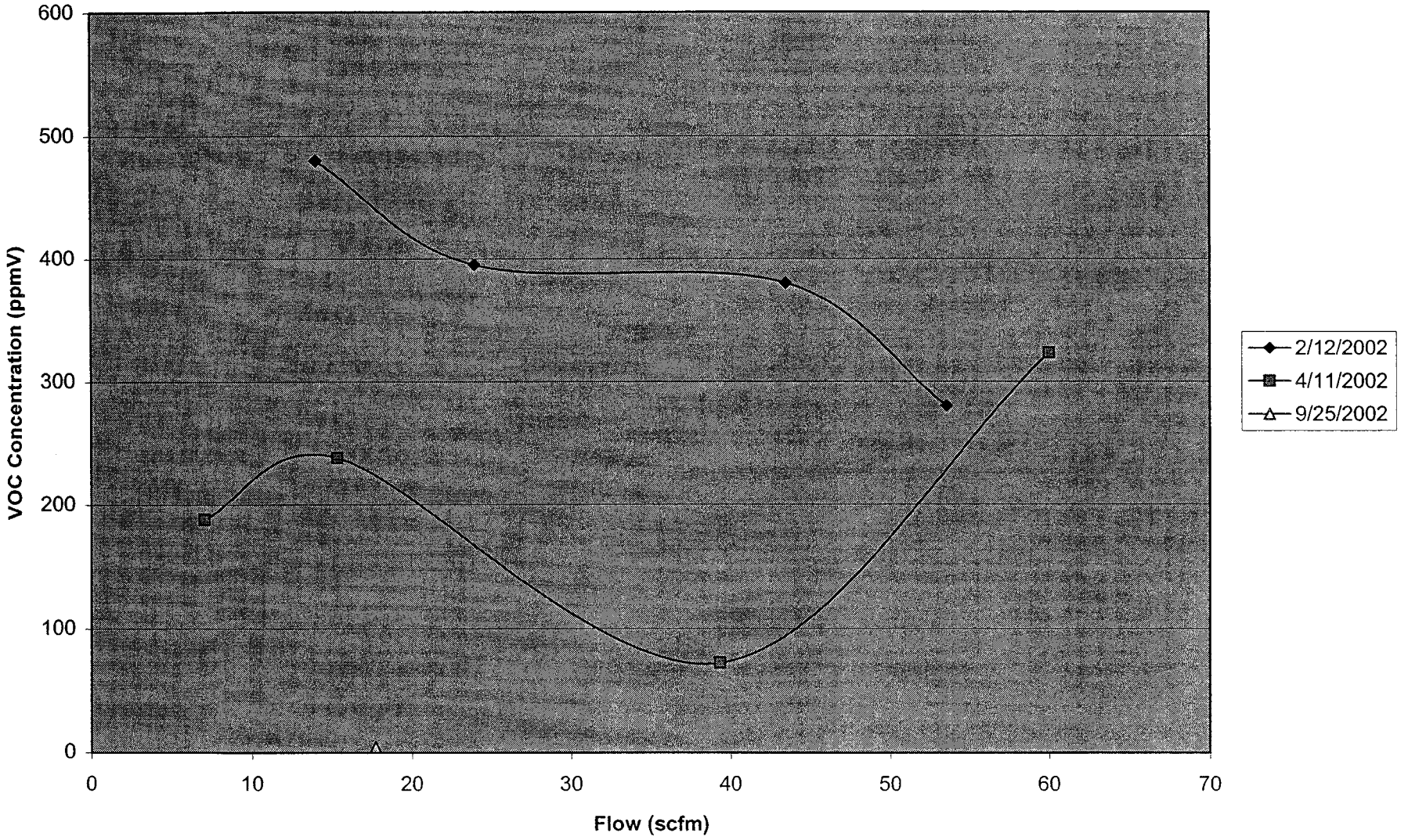


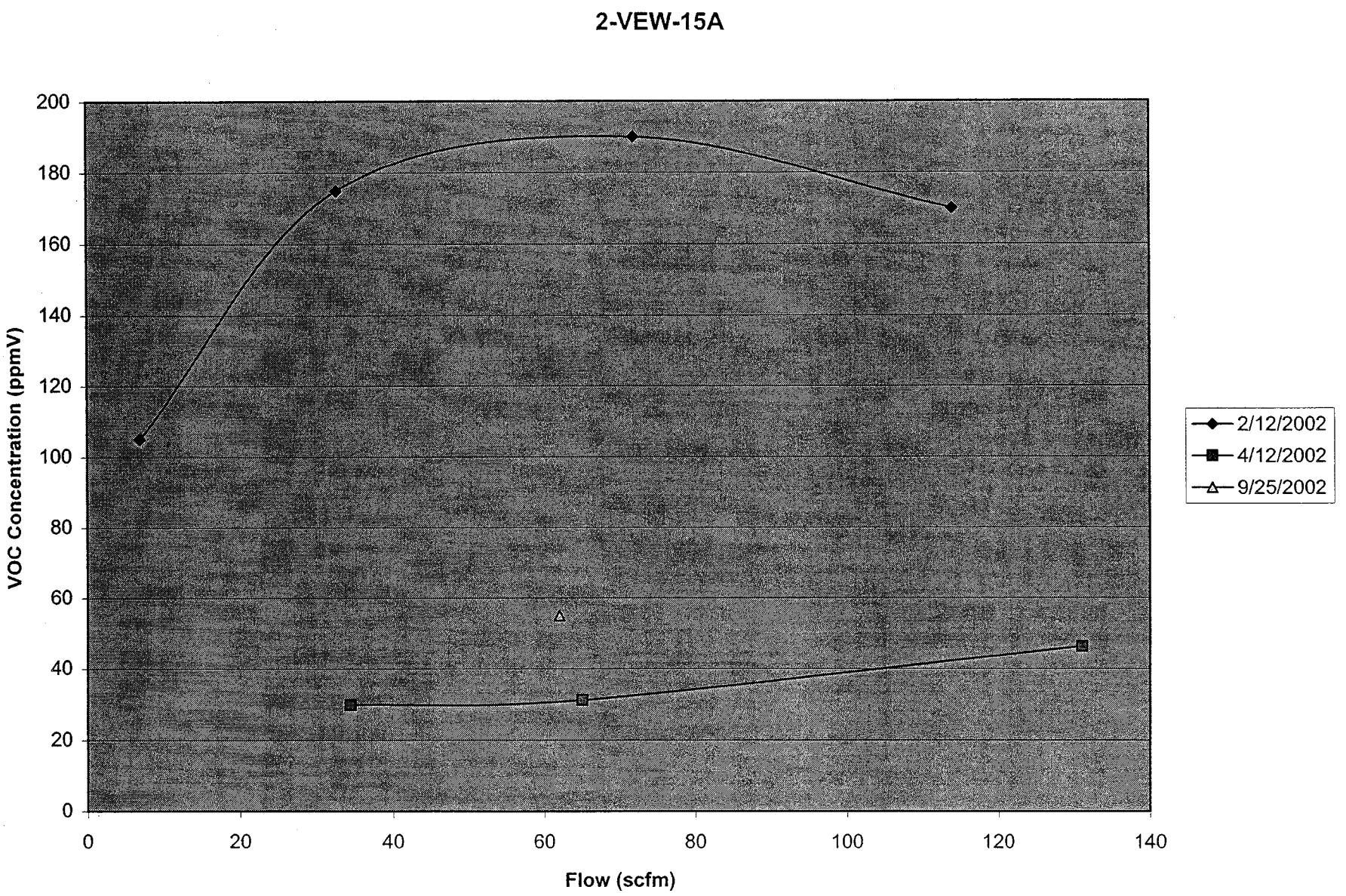
BOE-C6-0103149



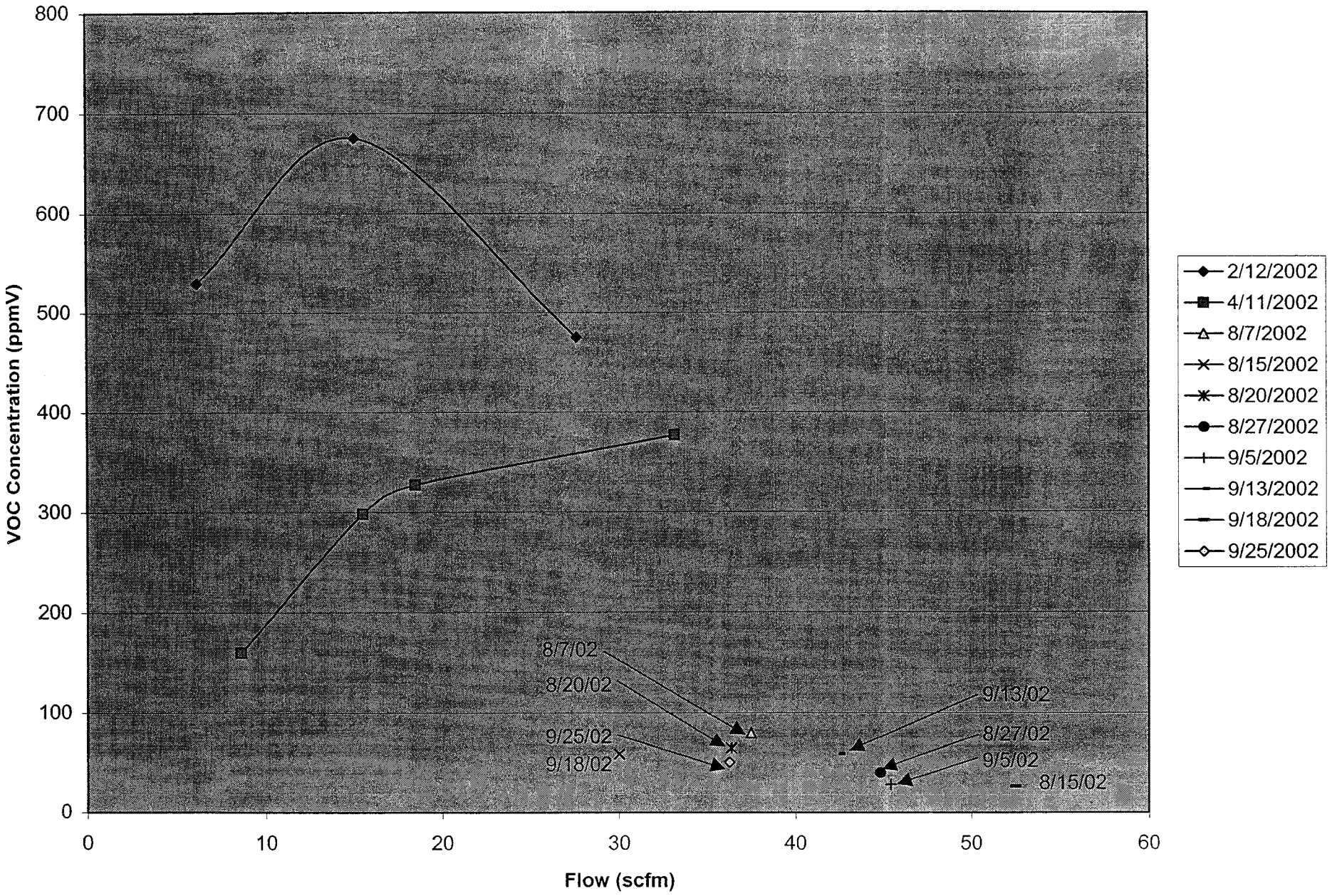
BOE-C6-0103150

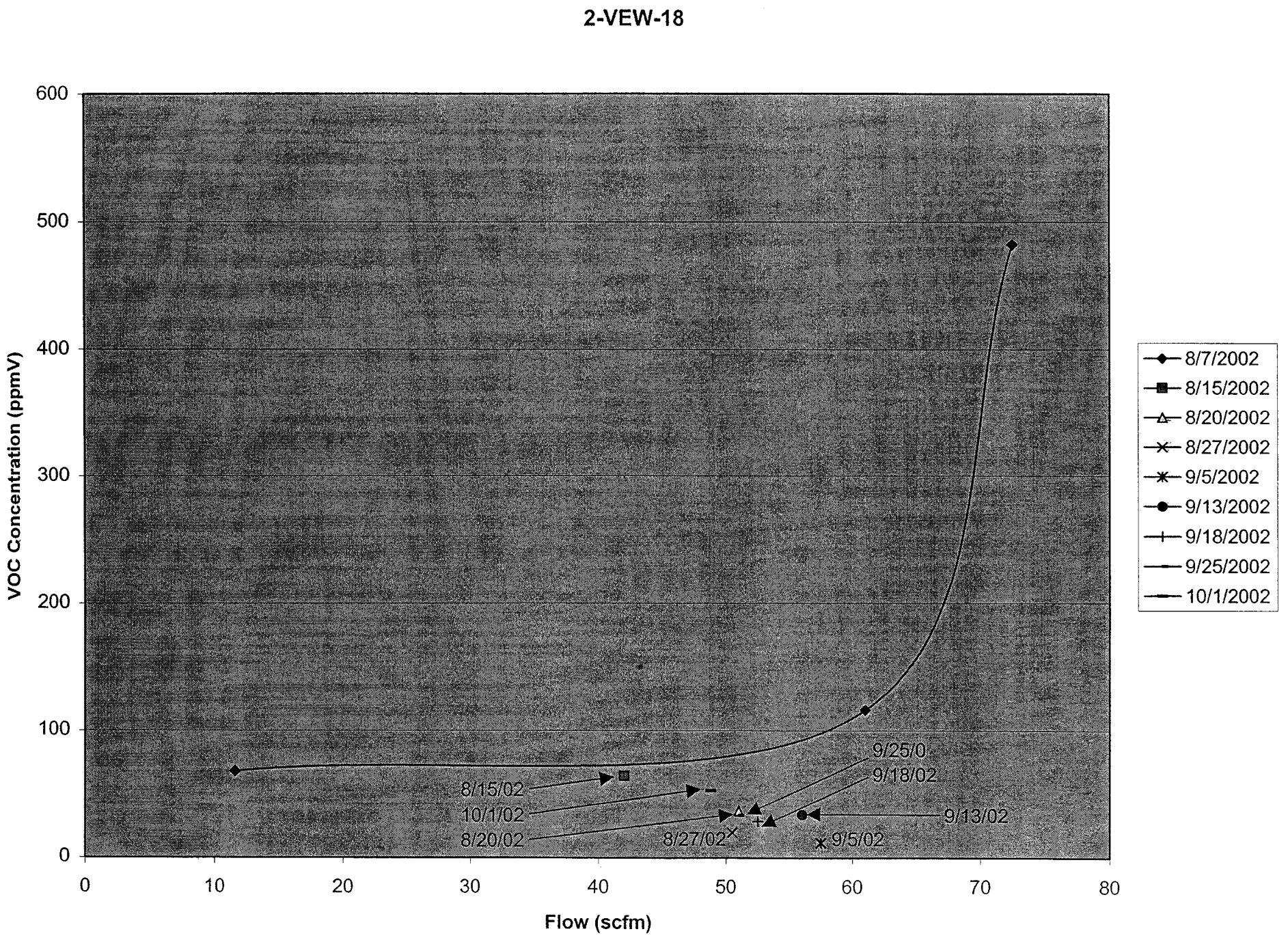
2-VEW-14B


600
500
400
300
200
100
0
VOC Concentration (ppmV)
0
10
20
30
40
50
60
70
Flow (scfm)
2/12/2002
4/11/2002
9/25/2002


2-VEW-15A
VOC Concentration (ppmV)
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
Flow (scfm)
2/12/2002
4/12/2002
9/25/2002

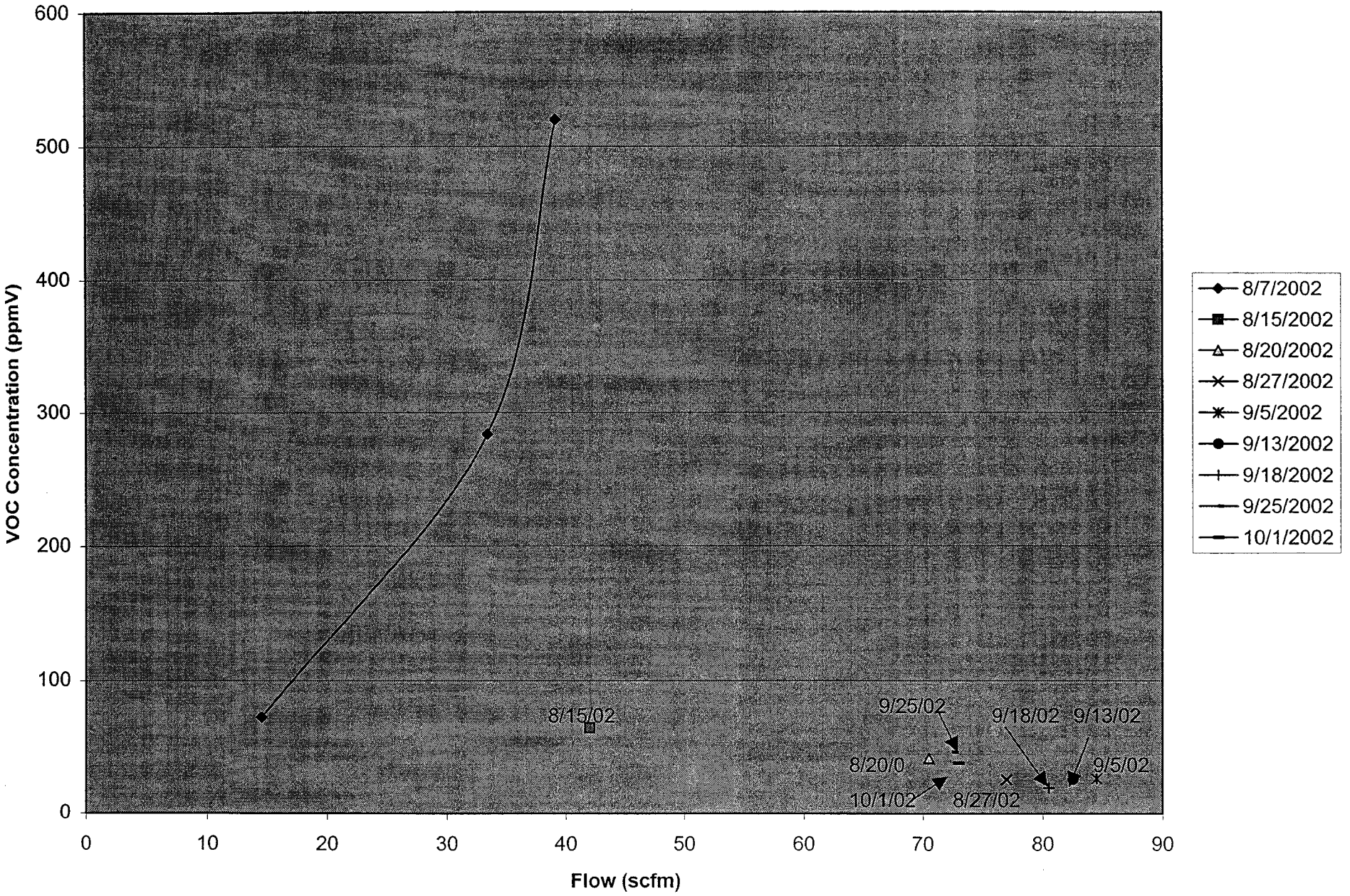
2-VEW-15B


VOC Concentration (ppmV)
800
700
600
500
400
300
200
100
0
0
10
20
30
40
50
60
Flow (scfm)
8/7/02
8/20/02
9/25/02
9/18/02
9/13/02
8/27/02
9/5/02
8/15/02
2/12/2002
4/11/2002
8/7/2002
8/15/2002
8/20/2002
8/27/2002
9/5/2002
9/13/2002
9/18/2002
9/25/2002

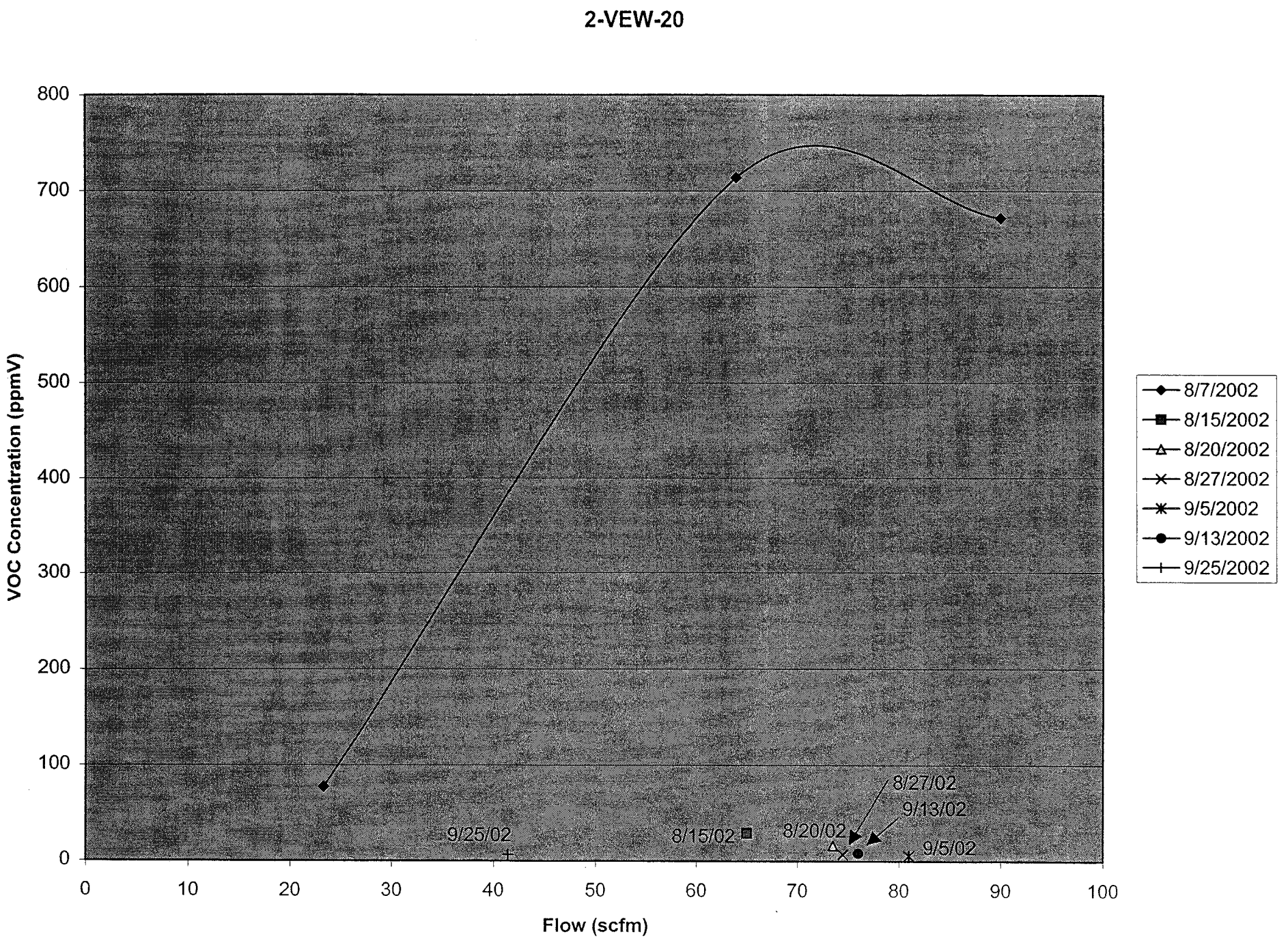


BOE-C6-0103154

2-VEW-19

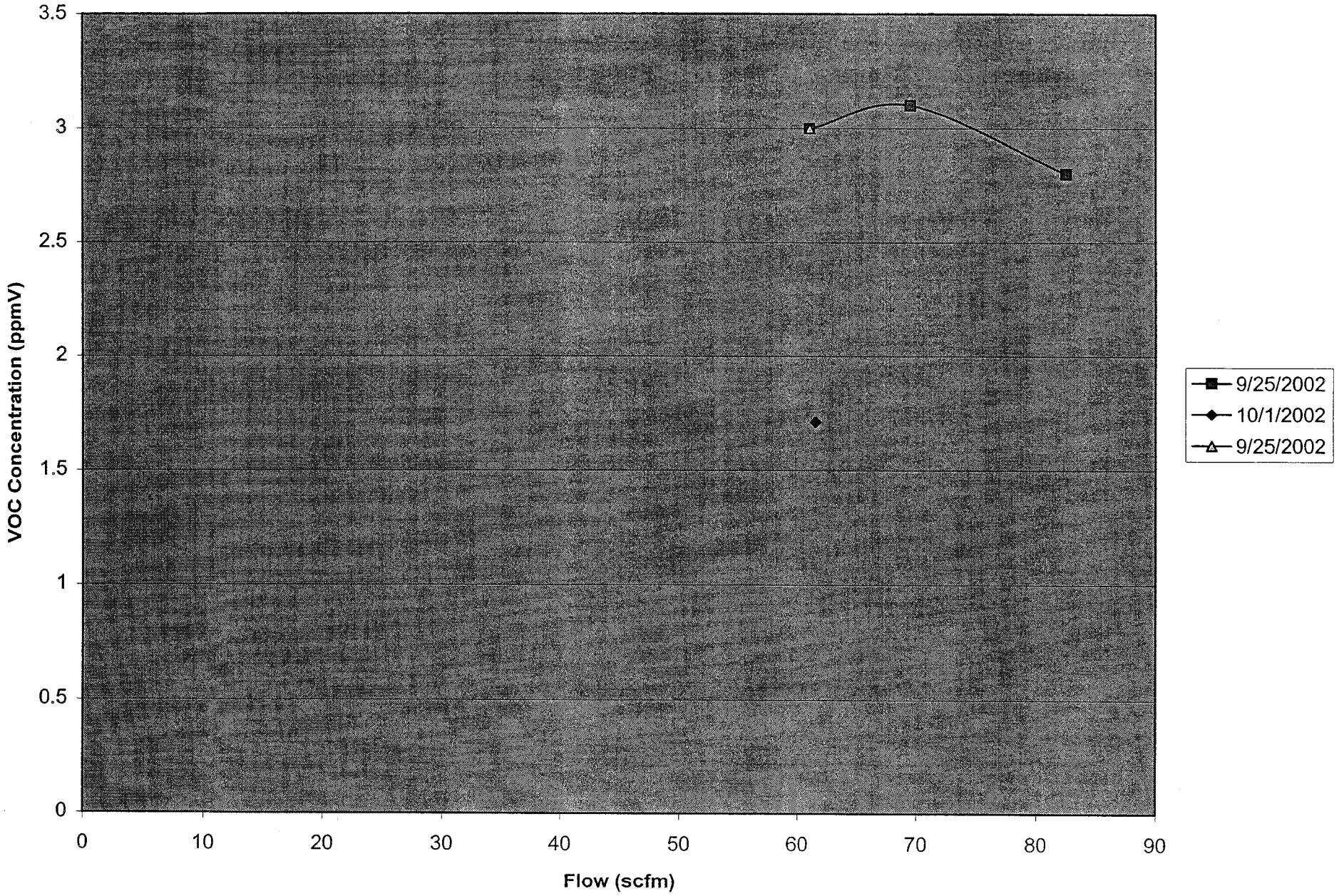


BOE-C6-0103155

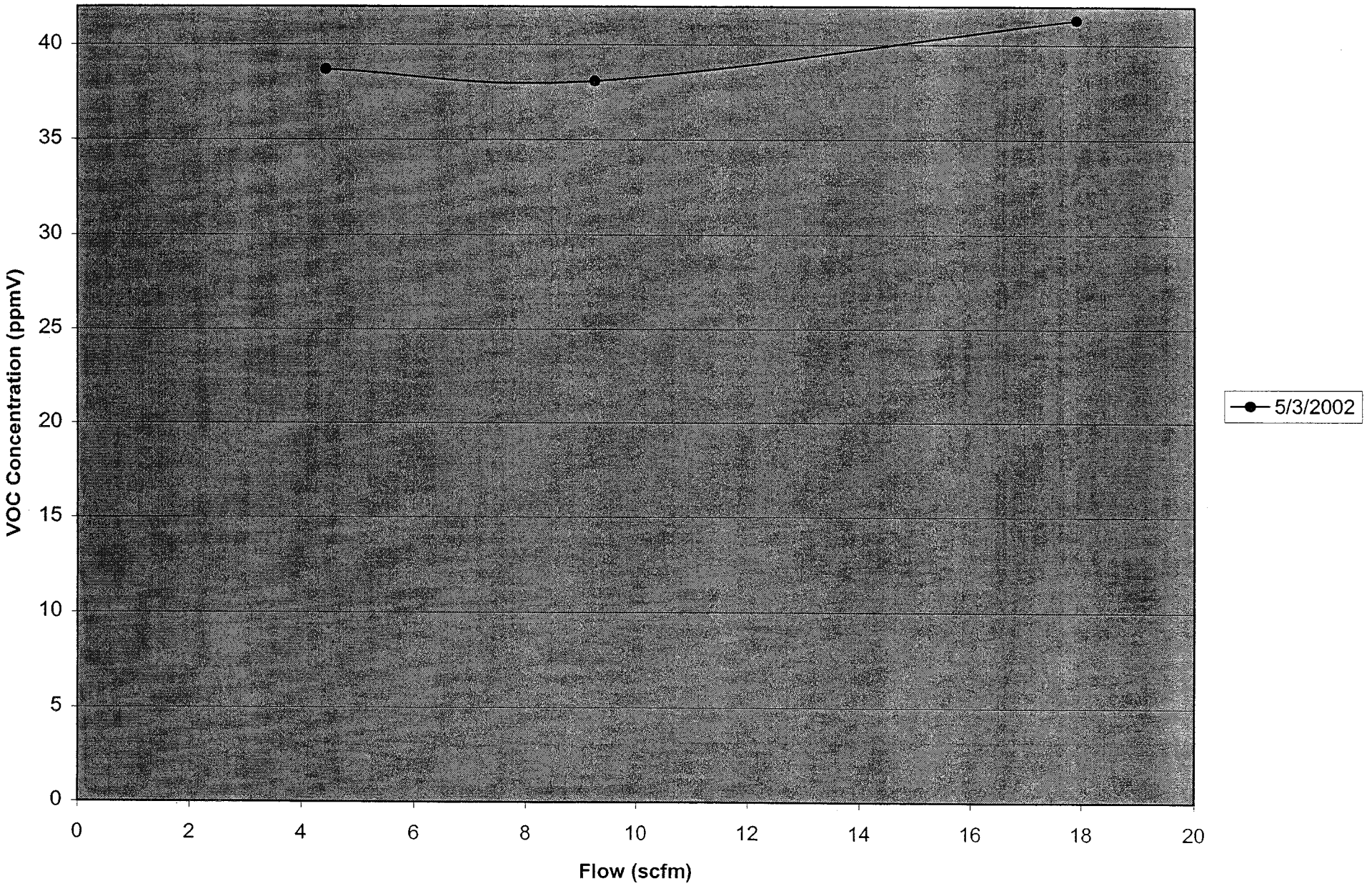


BOE-C6-0103156

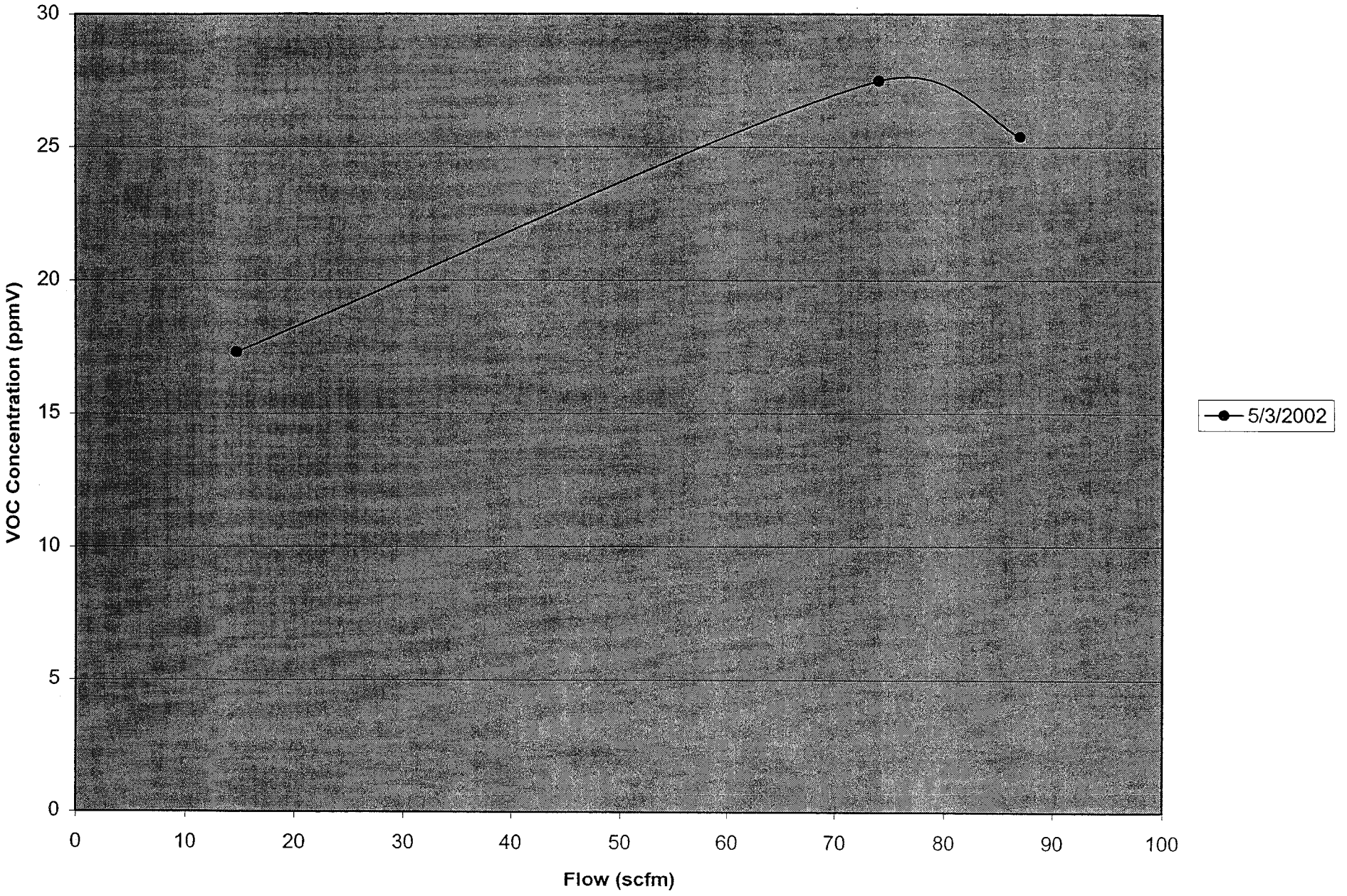
2-VEW-21


3.5
3
2.5
2
1.5
1
0.5
0
VOC Concentration (ppmV)
0
10
20
30
40
50
60
70
80
90
Flow (scfm)
9/25/2002
10/1/2002
9/25/2002

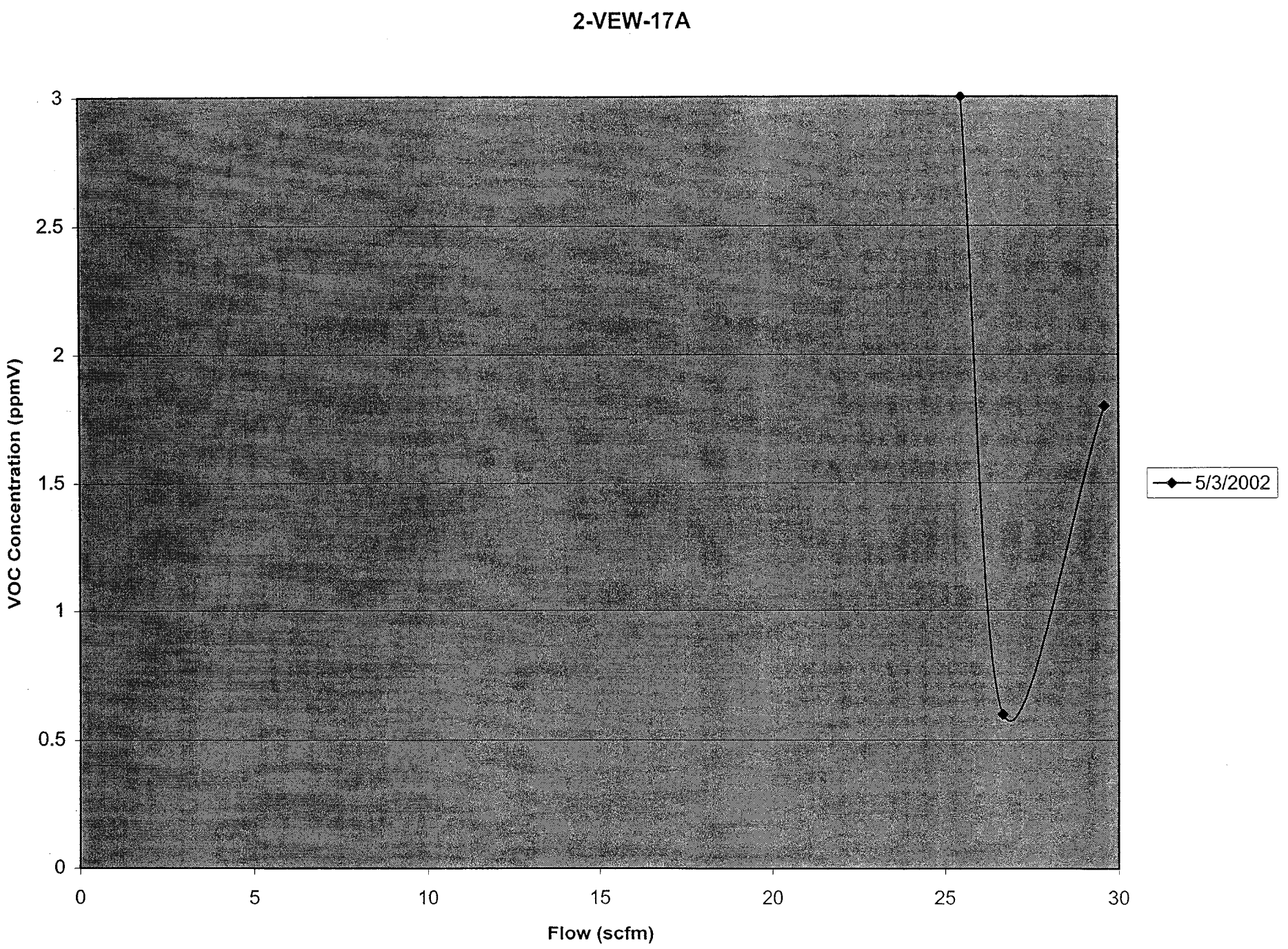
2-VEW-16A


VOC Concentration (ppmV)
0
5
10
15
20
25
30
35
40
0
2
4
6
8
10
12
14
16
18
20
Flow (scfm)
5/3/2002

2-VEW-16B

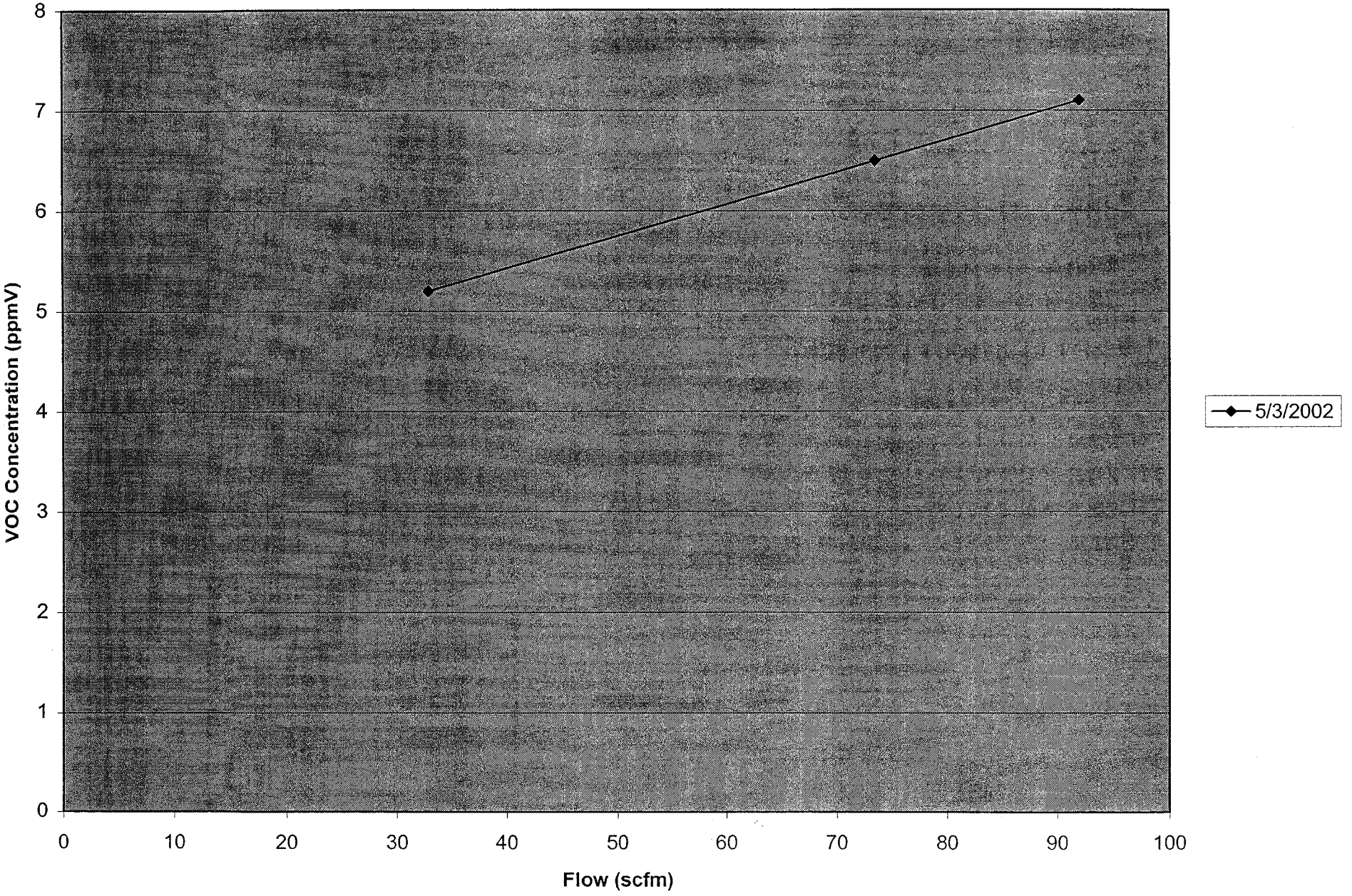


BOE-C6-0103159



BOE-C6-0103160

2-VEW-17B



BOE-C6-0103161