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HERCULES, INCORPORATED
HATTIESBURG, MISSISSIPPI

ANALYTICAL DATA SHEETS

DECEMBER 4 & 5, 2002
GROUNDWATER MONITORING EVENT

Bonner Analytical Testing Company

2703 Oak Grove Road, Hattiesburg, MS 39402
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CASE NARRATIVE: Hercules, Hattiesburg MS.

Volatile Organic Analyses:

Samples were collected on December 4th and 5th, 2002 from Hercules in Hattiesburg MS. They were received at BATCO on December 5, 2002 and included monitoring wells 4, 7, 8, 9, 10, and 11. A duplicate sample, a matrix spike, matrix spike duplicate, a rinsate blank, and two trip blanks were also collected for volatile organic analyses.

Samples were analyzed for volatile organic compounds, VOC's, utilizing a 5890 Series II Hewlett Packard Gas Chromatograph (GC), and a Perkin-Elmer Ion Trap Detector. These samples were run within the fourteen-day holding time window according to EPA SW846 Method 8260B, which began on December 13, 2002. All QA/QC criteria were with in the limits as set forth in EPA SW846 Method 8260B.

Monitoring wells 4, 8, 9, and 11 and the sample duplicate were found to contain volatile organic compounds listed on the target analyte list, with monitoring well 8 having the highest levels of VOC compounds. Table 1 of this narrative lists the compounds observed from the said samples.

Table 1. Concentration Levels of Volatile Compounds for Samples Tested.

Compound	MW-4	MW-8	MW-9	MW-11	Duplicate
1,1-Dichloroethene	ND	17.0 ppb	5.92 ppb	ND	ND
Benzene	14.0 ppb	6900 ppb	9.15 ppb	114 ppb	11.2 ppb
Trichloroethene	ND	5.80 ppb	ND	ND	ND
Toluene	ND	28.0 ppb	ND	ND	ND
Chlorobenzene	1.81 ppb	290 ppb	ND	ND	1.14 ppb
Bromodichloromethane	ND	6.84 ppb	ND	ND	ND
Bromomethane	ND	4.07 ppb	ND	ND	ND
Carbon Tetrachloride	10.0 ppb	16,000 ppb	ND	ND	5.53 ppb
Chloroethane	63.0 ppb	66.0 ppb	ND	ND	64.8 ppb
Chloroform	ND	1800 ppb	ND	ND	ND
Chloromethane	1.72 ppb	39.2 ppb	ND	ND	1.19 ppb
Dibromochloromethane	ND	4.45 ppb	ND	ND	ND
1,2-dichlorobenzene	ND	2.71 ppb	ND	ND	ND

Table 1. Continued

Compound	MW-4	MW-8	MW-9	MW-11	Duplicate
1,3-dichlorobenzene	ND	3.75 ppb	ND	ND	ND
1,4-dichlorobenzene	ND	3.80 ppb	ND	ND	ND
1,2-dichloroethane	ND	20.0 ppb	ND	3.11 ppb	ND
Cis-1,2-dichloroethene	ND	19.0 ppb	ND	ND	ND
Ethyl benzene	ND	55.6 ppb	ND	ND	ND
Isopropylbenzene	1.26 ppb	4.60 ppb	2.48 ppb	ND	1.01ppb
p-isopropyltoluene	ND	23.9 ppb	ND	ND	ND
Methylene chloride	ND	26.1 ppb	ND	ND	ND
Naphthalene	5.38 ppb	9.14 ppb	ND	ND	7.34ppb
Tetrachloroethene	ND	8.51 ppb	ND	ND	ND
1,2,3-trichlorobenzene	1.81 ppb	2.55 ppb	ND	ND	2.73ppb
1,2,4-trichlorobenzene	ND	2.86 ppb	ND	ND	2.17ppb
1,2,4-trimethylbenzene	ND	1.81 ppb	ND	ND	ND
Xylenes (total)	ND	79.0 ppb	ND	ND	ND
Vinyl chloride	ND	1.62 ppb	ND	ND	ND

A BFB standard was run on the HP-5890 GC to verify the detector, Ion Trap Detector, was tuned and properly functional. A five point calibration curve was obtained from dilutions of a working standard, 8260 calibration mix, which proved to pass linearity in accordance to EPA Method 8260B. Initial and continuing calibration verifications were acquired, analyzed, and passed during the sequence of the sample run. All Quality Assurance and Control measures were met in accordance to Method 8260B.

Authorized by: _____

Michael S. Bonner, PhD.

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-11**
File #: BT80864

	Date	Time	Analyst
Collected:	12/04/02	12:10	Client
Received:	12/05/02	8:05	LR
Analyzed:	12/13/02	23:37	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	114.13			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	ND			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			16000			14000		
Chloroethane	75-00-3	1.20	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			1900			1800		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	3.11			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-11**
File #: BT80864

	Date	Time	
Collected:	12/04/02	12:10	Client
Received:	12/05/02	8:05	LR
Analysis:	12/13/02	23:37	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		51.0	250.0	101.94	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		49.1	250.0	98.2	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		49.6	250.0	99.2	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		56.9	250.0	113.9	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte in Laboritory Control Standard greater than 5% of sample.

Certified by:
Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-10**
File #: BT80867

	Date	Time	
Collected:	12/04/02	16:40	Client
Received:	12/05/02	8:05	LR
Analyzed:	12/13/02	20:24	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	ND			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	ND			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			16000			14000		
Chloroethane	75-00-3	1.20	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			1900			1800		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-10**
File #: BT80867

	Date	Time	
Collected:	12/04/02	16:40	Client
Received:	12/05/02	8:05	LR
Analysis:	12/13/02	20:24	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE Spike % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP Spike % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		50.8	250.0	101.54	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		53.1	250.0	106.1	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		50.0	250.0	100.0	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		52.2	250.0	104.5	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte in Laboritory Control Standard greater than 5% of sample.

Certified by: _____
Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-7**
File #: BT80868

	Date	Time	Analyst
Collected:	12/04/02	16:20	Client
Received:	12/05/02	8:05	LR
Analyzed:	12/13/02	21:28	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE Spike % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	ND			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	ND			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			16000			14000		
Chloroethane	75-00-3	1.20	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			1900			1800		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-7**
File #: BT80868

Collected: 12/04/02 16:20 Client
Received: 12/05/02 8:05 LR
Analysis: 12/13/02 21:28 MGJ
Date Time Analyst

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	% Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		50.8	250.0	101.68	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		52.7	250.0	105.4	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		50.0	250.0	100.0	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		53.2	250.0	106.4	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte In Laboritory Control Standard greater than 5% of sample.

Certified by:
Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Trip Blank (12/04)**
File #: BT80869

Collected: 12/03/02 (Date) 16:04 (Time) Client
Received: 12/05/02 8:05 LR
Analyzed: 12/12/02 3:15 MGJ (Analyst)

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE Spike % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	ND			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	ND			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			16000			14000		
Chloroethane	75-00-3	1.20	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	2.05			ND			1900			1800		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Trip Blank (12/04)**
File #: BT80869

	Date	Time	
Collected:	12/03/02	16:04	Client
Received:	12/05/02	8:05	LR
Analysis:	12/12/02	3:15	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE Spike % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP Spike % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		57.4	250.0	114.7	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		53.3	250.0	106.6	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		49.1	250.0	98.3	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		53.5	250.0	107.0	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte in Laboritory Control Standard greater than 5% of sample.

Certified by:

Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-9**
File #: BT80870

Collected:	12/05/02	10:15	Client
Received:	12/06/02	8:00	LR
Analyzed:	12/13/02	22:33	MGJ
	Date	Time	Analyst

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	5.92			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	9.15			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	ND			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			16000			14000		
Chloroethane	75-00-3	1.20	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			1900			1800		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	2.48			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-9**
File #: BT80870

	Date	Time	
Collected:	12/05/02	10:15	Client
Received:	12/06/02	8:00	LR
Analysis:	12/13/02	22:33	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		49.4	250.0	98.72	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.1B
Dibromofluoromethane	1868-53-7		50.8	250.0	101.7	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		49.6	250.0	99.1	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		51.8	250.0	103.6	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte in Laboritory Control Standard greater than 5% of sample.

Certified by:
Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-4**
File #: BT80871

Collected: 12/05/02 13:15 Client
Received: 12/06/02 8:00 LR
Analyzed: 12/11/02 20:49 MGJ
Date Time Analyst

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE Spike % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	14			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	1.81			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	10			ND			16000			14000		
Chloroethane	75-00-3	1.20	63			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			1900			1800		
Chloromethane	74-87-3	1.00	1.72			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	1.26			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	5.38			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-4**
File #: BT80871

Collected: 12/05/02 13:15 Client
Received: 12/06/02 8:00 LR
Analysis: 12/11/02 20:49 MGJ
Date Time Analyst

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE Spike % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP Spike % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	1.81			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		54.7	250.0	109.4	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		53.5	250.0	107.0	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		49.0	250.0	98.1	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		55.9	250.0	111.8	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte in Laboritory Control Standard greater than 5% of sample.

Certified by: Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-8**
File #: BT80874

	Date	Time	
Collected:	12/05/02	16:10	Client
Received:	12/06/02	8:00	LR
Analyzed:	12/14/02	4:49	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE ** Detected Amount ug/L (ppb)	MATRIX SPIKE ** Spike Amount ng	MATRIX SPIKE ** Spike % Recovery	MATRIX SPIKE DUP ** Detected Amount ug/L (ppb)	MATRIX SPIKE DUP ** Spike Amount ng	MATRIX SPIKE DUP ** Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	17.0			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	100.00	6900			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	5.80			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	28.00			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	100.00	290			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	6.84			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	4.07			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	100.00	16000			ND			16000			14000		
Chloroethane	75-00-3	1.20	66			ND			ND			ND		
Chloroform	66-67-3	100.00	1800			ND			1900			1400		
Chloromethane	74-87-3	1.00	39.16			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	4.45			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	2.71			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	3.75			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	3.80			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	20			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	19			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	55.57			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	4.60			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	23.85			ND			ND			ND		
Methylene chloride	75-09-2	1.30	26.05			ND			ND			ND		
Naphthalene	91-20-3	1.10	9.14			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **MW-8**
File #: BT80874

	Date	Time	
Collected:	12/05/02	16:10	Client
Received:	12/06/02	8:00	LR
Analysis:	12/14/02	4:49	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE **			MATRIX SPIKE DUP **		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	8.51			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	2.55			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	2.86			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	1.81			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	1.62			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	79			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		49.6	250.0	99.16	51.1	250.0	102.28	47.7	250.0	95.38	48.4	250.0	96.82
Dibromofluoromethane	1868-53-7		52.2	250.0	104.4	53.5	250.0	107.0	52.4	250.0	104.7	49.5	250.0	98.9
Toluene-d8	2037-26-5		50.9	250.0	101.7	48.9	250.0	97.9	50.5	250.0	101.0	49.3	250.0	98.6
4-Bromofluorobenzene	460-00-4		55.9	250.0	111.7	53.3	250.0	106.5	53.6	250.0	107.2	52.9	250.0	105.8

** For spiking compounds, only the recovered spiked amount is reported, and only the results form the 1:100 dilution is reported

Certified by: _____
Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Rinsate Blank**
File #: BT80877

Collected:	12/05/02	15:25	Client
Received:	12/06/02	8:00	LR
Analyzed:	12/13/02	18:15	MGJ
	Date	Time	Analyst

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	ND			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	ND			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			16000			14000		
Chloroethane	75-00-3	1.20	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			1900			1800		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Rinsate Blank**
File #: BT80877

Collected: 12/05/02 (Date) 15:25 (Time) Client
Received: 12/06/02 8:00 LR
Analysis: 12/13/02 (Date) 18:15 (Time) MGJ (Analyst)

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		52.6	250.0	105.12	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		51.2	250.0	102.4	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		50.1	250.0	100.2	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		53.4	250.0	106.7	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte in Laboritory Control Standard greater than 5% of sample.

Certified by:

Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Trip Blank (12/5)**
File #: BT80878

	Date	Time	
Collected:	12/03/02	19:19	Client
Received:	12/06/02	8:00	LR
Analyzed:	12/13/02	18:15	MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE Spike % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	ND			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	ND			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	ND			ND			16000			14000		
Chloroethane	75-00-3	1.20	ND			ND			ND			ND		
Chloroform	66-67-3	1.00	1.20			ND			1900			1800		
Chloromethane	74-87-3	1.00	ND			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	ND			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	ND			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Trip Blank (12/5)**
File #: BT80878

Collected: 12/03/02 (Date) 19:19 (Time) Client
Received: 12/06/02 8:00 LR
Analysis: 12/13/02 (Date) 18:15 (Time) MGJ (Analyst)

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	ND			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		51.4	250.0	102.82	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		55.9	250.0	111.9	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		49.9	250.0	99.8	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		52.4	250.0	104.8	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte in Laboritory Control Standard greater than 5% of sample.

Certified by: 
Michael S. Bonner, Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Dup**
File #: BT80879

Collected: 12/05/02 13:15 Client
Received: 12/06/02 8:00 LR
Analyzed: 12/11/02 21:15 MGJ
Date Time Analyst

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE			BLANK			MATRIX SPIKE			MATRIX SPIKE DUP		
			Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Amount ug	% Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ng	Spike % Recovery
1,1-Dichloroethene	75-35-4	1.00	ND			ND			51.4	250.0	102.9	53.9	250.0	107.7
Benzene	71-43-2	1.00	11.21			ND			51.1	250.0	102.2	48.2	250.0	96.4
Trichloroethene	79-01-6	1.00	ND			ND			52.8	250.0	105.5	54.1	250.0	108.2
Toluene	108-88-3	1.00	ND			ND			48.3	250.0	96.7	50.2	250.0	100.5
Chlorobenzene	108-90-7	1.00	1.14			ND			51.1	250.0	102.2	54.6	250.0	109.2
Bromobenzene	108-86-1	1.00	ND			ND			ND			ND		
Bromochloromethane	74-97-5	1.00	ND			ND			ND			ND		
Bromodichloromethane	75-27-4	1.00	ND			ND			ND			ND		
Bromoform	75-25-2	1.00	ND			ND			ND			ND		
Bromomethane	74-83-9	1.00	ND			ND			ND			ND		
n-Butylbenzene	104-51-8	1.00	ND			ND			ND			ND		
sec-Butylbenzene	135-98-8	1.00	ND			ND			ND			ND		
tert-Butylbenzene	98-06-6	1.00	ND			ND			ND			ND		
Carbon Tetrachloride	56-23-5	1.00	5.53			ND			16000			14000		
Chloroethane	75-00-3	1.20	64.75			ND			ND			ND		
Chloroform	66-67-3	1.00	ND			ND			1900			1800		
Chloromethane	74-87-3	1.00	1.19			ND			ND			ND		
2-Chlorotoluene	95-49-8	1.00	ND			ND			ND			ND		
4-Chlorotoluene	106-43-4	1.00	ND			ND			ND			ND		
Dibromochloromethane	124-48-1	1.00	ND			ND			ND			ND		
1,2-Dibromo-3-chloropropane	96-12-8	1.10	ND			ND			ND			ND		
1,2-Dibromoethane	106-93-4	1.00	ND			ND			ND			ND		
Dibromomethane	74-95-3	1.00	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	1.00	ND			ND			ND			ND		
1,3-Dichlorobenzene	541-73-1	1.00	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	1.00	ND			ND			ND			ND		
Dichlorodifluoromethane	75-71-8	1.00	ND			ND			ND			ND		
1,1-Dichloroethane	75-34-3	1.00	ND			ND			ND			ND		
1,2-Dichloroethane	107-06-2	1.00	ND			ND			ND			ND		
cis-1,2-Dichloroethene	156-59-2	1.00	ND			ND			ND			ND		
trans-1,2-Dichloroethene	156-60-5	1.00	ND			ND			ND			ND		
1,2-Dichloropropane	78-87-5	1.00	ND			ND			ND			ND		
1,3-Dichloropropane	142-28-9	1.00	ND			ND			ND			ND		
2,2-Dichloropropane	594-20-7	1.00	ND			ND			ND			ND		
1,1-Dichloropropene	563-58-6	1.00	ND			ND			ND			ND		
c-1,3-Dichloropropene	10061-01-5	1.00	ND			ND			ND			ND		
t-1,3-Dichloropropene	10061-02-6	1.00	ND			ND			ND			ND		
Ethyl benzene	100-41-4	1.00	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	1.00	ND			ND			ND			ND		
Isopropylbenzene	98-82-8	1.00	1.01			ND			ND			ND		
p-Isopropyltoluene	99-87-6	1.00	ND			ND			ND			ND		
Methylene chloride	75-09-2	1.30	ND			ND			ND			ND		
Naphthalene	91-20-3	1.10	7.34			ND			ND			ND		
n-Propylbenzene	103-65-1	1.00	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA

VOLATILE ORGANICS - GC/MS ANALYSIS DATA

Client: Hercules
Location: **Dup**
File #: BT80879

Collected: 12/05/02 (Date) 13:15 (Time) Client (Analyst)
Received: 12/06/02 8:00 LR
Analysis: 12/11/02 21:15 MGJ

Sample Type: Water
Analysis Method: 8260B
Project Number: 005456

Compound Name	CAS Number	MDL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Amount ug	SAMPLE % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Amount ug	BLANK % Recovery	MATRIX SPIKE Detected Amount ug/L (ppb)	MATRIX SPIKE Spike Amount ng	MATRIX SPIKE % Recovery	MATRIX SPIKE DUP Detected Amount ug/L (ppb)	MATRIX SPIKE DUP Spike Amount ng	MATRIX SPIKE DUP % Recovery
Styrene	100-42-5	1.00	ND			ND			ND			ND		
1,1,1,2-Tetrachloroethane	630-20-6	1.00	ND			ND			ND			ND		
1,1,2,2-Tetrachloroethane	79-34-5	1.00	ND			ND			ND			ND		
Tetrachloroethene	127-18-4	1.00	ND			ND			ND			ND		
1,2,3-Trichlorobenzene	87-61-6	1.00	2.73			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	1.00	2.17			ND			ND			ND		
1,1,1-Trichloroethane	71-55-6	1.00	ND			ND			ND			ND		
1,1,2-Trichloroethane	79-00-5	1.00	ND			ND			ND			ND		
Trichlorofluoromethane	75-69-4	1.00	ND			ND			ND			ND		
1,2,3-Trichloropropane	96-18-4	1.00	ND			ND			ND			ND		
1,2,4-Trimethylbenzene	95-63-6	1.00	ND			ND			ND			ND		
1,3,5-Trimethylbenzene	108-67-8	1.00	ND			ND			ND			ND		
Vinyl chloride	75-01-4	1.00	ND			ND			ND			ND		
Xylenes (total)	1330-20-7	1.50	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
1,2-Dichloroethane-d4	17060-07-0		52.5	250.0	104.96	51.1	250.0	102.28	47.7	250.0	95.38	49.1	250.0	98.18
Dibromofluoromethane	1868-53-7		52.8	250.0	105.6	53.5	250.0	107.0	52.4	250.0	104.7	51.6	250.0	103.1
Toluene-d8	2037-26-5		49.9	250.0	99.8	48.9	250.0	97.9	50.5	250.0	101.0	50.3	250.0	100.6
4-Bromofluorobenzene	460-00-4		55.0	250.0	110.1	53.3	250.0	106.5	53.6	250.0	107.2	53.8	250.0	107.6

B = Analyte In Laboritory Control Standard greater than 5% of sample.

Certified by: Michael S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY

2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Hercules

YOUR COMPANY ADDRESS: 6137th St
Hattiesburg, MS 39402

NAME OF PERSON TO CONTACT: Charlie Jordan

CONTACT PERSON'S PHONE: (601)936-4440 FAX:

CONTACT PERSON'S EMAIL:

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

LABORATORY USE

Turn Around Time

Project Number: 005456

SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PARAMETERS FOR ANALYSIS: Dioxathion	Semi-VOA	VOA					NUMBER OF CONTAINERS	PRESERVATION	File ID
1 MW-1	12/4/02	1045	Liquid	X							2		BT80863
2 MW-11	12/4/02	1210	Liquid	X	X	X					7		BT80864
3 MW-3	12/4/02	1500	Liquid	X							2		BT80865
4 MW-2	12/4/02	1545	Liquid	X							2		BT80866
5 MW-10	12/4/02	1640	Liquid	X	X	X					7		BT80867
6 MW-7	12/4/02	1620	Liquid	X	X	X					7		BT80868
7 Trip Blank	12/3/02	1604	Liquid			X					3		BT80869
8													BT
9													BT
10													BT

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	12402	17:20	

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	12/5/02	0805	

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME
			12-5-02 0805

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

(Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

BONNER ANALYTICAL TESTING COMPANY

2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Hercules

YOUR COMPANY ADDRESS: 613 7th St
Hattiesburg MS 39401

NAME OF PERSON TO CONTACT: Charlie Jordan

CONTACT PERSON'S PHONE: _____ FAX: _____

CONTACT PERSON'S EMAIL: _____

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PARAMETERS FOR ANALYSIS: Dioxasthion	Semi-VOA	VOA					NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE: File ID
1 MW-9	12/5/02	1015	Liquid	X	X	X					7		BT80870
2 MW-4	12/5/02	1315	Liquid	X		X					5		BT80871
3 MW-5	12/5/02	1426	Liquid	X							2		BT80872
4 MW-6	12/5/02	1330	Liquid	X							2		BT80873
5 MW-8	12/5/02	~~1610~~ 1115	Liquid	X	X	X					7		BT80874
6 MS	12/5/02	1610	Liquid	X	X	X					7		BT80875
7 MSD	12/5/02	1610	Liquid	X	X	X					7		BT80876
8 Rinsate Blank	12/5/02	1525	Liquid	X	X	X					7		BT80877
9 Trip Blank	12/3/02	1604	Liquid			X					3		BT80878
10 Dup	12/13/02	1315	Liquid	X	X*	X					7 not 7		BT80879

Project Number: 005456

Turn Around Time

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Charles Vickery	05 DEC 02	1658	

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME
			12-6-02 0800

REMARKS: * Semi-Voa Dup collected at 1610

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

SAMPLE RECEIPT FORM

Nº 4523

Client: Hercules

Date: 6-5-02

Project #: MWells

1) Does this project fall under NPDES, RCRA, etc.	NA	YES	NO
2) Did Cooler come with a shipping slip (airbill, FedEx, etc.)? If YES, enter carrier name and airbill number here:	NA	YES	NO
3) Are custody seals on the outside of the cooler intact?	NA	YES	NO
4) Are custody seals unbroken and intact at the date and time of arrival?	NA	YES	NO
5) Are all bottles sealed in separate plastic bags?	NA	YES	NO
6) Are samples requiring no headspace, headspace free?	NA	YES	NO
7) Are chains of custody filled out properly? (ink, signed, dates, etc.)		YES	NO
8) Are all bottle labels complete and agree with COC? (ID, time, date, preservation?)		YES	NO
9) Were all bottles received intact?		YES	NO
10) Were correct containers used for the tests indicated?		YES	NO
11) Was a sufficient aliquot of sample sent for tests indicated?		YES	NO
12) Are samples within holding times for requested analysis?		YES	NO
13) Sample Preservation?			
A) If samples were collected within 4 to 6 hours prior to receipt, has chilling begun	NA	YES	NO
B) If samples were received beyond 6 hours of collection:	NA	YES	NO
1) Is there a temperature blank?	NA	YES	NO
2) If Yes. are samples received at 4°C?	NA	YES	NO
3) If No, are samples on ice?	NA	YES	NO
C) Have samples been checked for correct preservation?		YES	NO
1) If sample/s doesn't meet preservation, list deviation?			

14) Describe "NO" items for the above if # 1) response is NA or YES

Is there a Corrective Action form attached?	YES	NO
Is there a Client Contact form attached:	YES	NO

Signature: [signature]

Data File : D:\MSCONV\BFB12111.D
Acq Time : Dec 11, 2002 10:11:59.50 Operator:
Sample : BFB TUNE Inst :
Misc : Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\CCC1210.M
Title : 5-Point Calibration for Method 8260B

Scan Number 180

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	4506	PASS
75	95	30	60	52.5	10796	PASS
95	95	100	100	100.0	20546	PASS
96	95	5	9	6.2	1278	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	72.5	14894	PASS
175	174	5	9	6.9	1030	PASS
176	174	95	101	97.6	14542	PASS
177	176	5	9	5.5	795	PASS

BFB12111.D CCC1210.M Thu Dec 12 13:56:38 2002

BFB

Data File : D:\MSCONV\BFB1211A.D
Acq Time : Dec 12, 2002 0:02:12.48 Operator:
Sample : BFB TUNE Inst :
Misc : Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\CCC1210.M
Title : 5-Point Calibration for Method 8260B

Scan Number 1924

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	5486	PASS
75	95	30	60	51.3	11376	PASS
95	95	100	100	100.0	22184	PASS
96	95	5	9	6.5	1431	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	69.0	15296	PASS
175	174	5	9	8.0	1226	PASS
176	174	95	101	100.5	15368	PASS
177	176	5	9	5.1	783	PASS

BFB1211A.D CCC1210.M Thu Dec 12 13:57:48 2002

BFB

Data File : D:\MSCONV\BFB12131.D
Acq Time : Dec 13, 2002 11:53:43.21 Operator:
Sample : BFB TUNE Inst :
Misc : Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B

Scan Number 180

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	1432	PASS
75	95	30	60	49.5	3490	PASS
95	95	100	100	100.0	7049	PASS
96	95	5	9	8.9	626	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	80.3	5660	PASS
175	174	5	9	5.8	330	PASS
176	174	95	101	94.9	5374	PASS
177	176	5	9	6.0	322	PASS

BFB12131.D 1212021.M Fri Dec 13 16:16:04 2002

BFB

Data File : D:\MSCONV\BFB1213A.D
Acq Time : Dec 14, 2002 1:46:19.26 Operator:
Sample : BFB Inst :
Misc : Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B

Scan Number 180

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	1472	PASS
75	95	30	60	51.7	3635	PASS
95	95	100	100	100.0	7030	PASS
96	95	5	9	8.3	586	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	80.7	5672	PASS
175	174	5	9	5.5	310	PASS
176	174	95	101	95.3	5407	PASS
177	176	5	9	5.0	269	PASS

BFB1213A.D 1212021.M Sat Dec 14 08:54:39 2002

Evaluate Continuing Calibration Report

Data File : D:\MSCONV\CCC1211A.D
Acq Time : Dec 12, 2002 1:06:45.66 Operator:
Sample : CCC Inst :
Misc : Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\CCC1210.M
Title : 5-Point Calibration for Method 8260B
Last Update : Wed Dec 11 09:16:52 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	Fluorobenzene	1.000	1.000	0.0	116	-0.03
2	S	1,2-Dichloroethane-d4	0.030	0.030	-1.1	117	0.03
3	S	Dibromofluoromethane	0.436	0.439	-0.6	114	-0.02
4	P	Chloromethane	0.035	0.041	-15.6	127	-0.04
5	C	Vinyl Chloride	0.301	0.284	5.7	98	-0.04
6	P	1,1-Dichloroethene	0.276	0.241	12.9	94	-0.04
7	C	1,1-Dichloroethane	0.447	0.455	-1.8	111	0.00
8	C	Chloroform	0.680	0.633	6.9	105	0.00
9	P	1,2-Dichloroethane	0.388	0.449	-15.8	128	-0.02
10	C	Toluene	0.587	0.604	-3.0	118	-0.07
11	I	Chlorobenzene-d5	1.000	1.000	0.0	112	-0.05
12	S	Toluene-d8	1.794	1.840	-2.6	115	-0.05
13	P	Chlorobenzene	0.803	0.946	-17.7	122	-0.04
14	C	Ethylbenzene	0.306	0.332	-8.5	116	-0.37
15	P	Bromoform	0.272	0.229	15.9	88	-0.03
16	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	-0.05
17	S	4-Bromofluorobenzene	1.050	1.201	-14.4	132	-0.05
18	P	1,1,2,2-Tetrachloroethane	0.956	1.125	-17.6	135	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1210021D.D CCC1210.M Thu Dec 12 13:55:57 2002

Evaluate Continuing Calibration Report

Data File : D:\MSCONV\CCC12131.D
Acq Time : Dec 13, 2002 14:03:01.10
Sample : CCC
Misc :

Operator:
Inst :
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\CCC1212.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:48:20 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	Fluorobenzene	1.000	1.000	0.0	93	0.07
2	S	1,2-Dichloroethane-d4	0.032	0.031	5.1	90	0.13
3	S	Dibromofluoromethane	0.421	0.430	-2.1	92	0.08
4	T	Chloromethane	0.031	0.030	3.3	89	0.00
5	T	Vinyl Chloride	0.246	0.287	-16.6	103	0.05
6	M	1,1-Dichloroethene	0.215	0.245	-13.7	105	0.08
7	T	1,1-Dichloroethane	0.415	0.439	-5.6	97	0.14
8	T	Chloroform	0.608	0.620	-2.1	95	0.13
9	T	1,2-Dichloroethane	0.391	0.386	1.3	92	0.08
10	M	Toluene	0.543	0.565	-4.0	95	0.05
11	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.08
12	S	Toluene-d8	1.799	1.788	0.6	91	0.05
13	M	Chlorobenzene	0.876	0.916	-4.6	97	0.08
14	T	Ethylbenzene	0.334	0.334	0.1	94	-0.22
15	T	Bromoform	0.222	0.245	-10.1	95	0.10
16	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.07
17	S	4-Bromofluorobenzene	1.097	1.137	-3.6	101	0.07
18	T	1,1,2,2-Tetrachloroethane	1.013	1.073	-5.9	109	0.08

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

121201D.D CCC1212.M Sat Dec 14 09:31:13 2002

Evaluate Continuing Calibration Report

Data File : D:\MSCONV\CCC1213A.D
Acq Time : Dec 14, 2002 2:50:53.38 Operator:
Sample : CCC Inst :
Misc : Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\CCC1212.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:48:20 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	Fluorobenzene	1.000	1.000	0.0	99	0.00
2	S	1,2-Dichloroethane-d4	0.032	0.031	4.8	96	0.05
3	S	Dibromofluoromethane	0.421	0.403	4.3	92	0.03
4	T	Chloromethane	0.031	0.032	-2.1	100	-0.04
5	T	Vinyl Chloride	0.246	0.288	-16.7	110	-0.02
6	M	1,1-Dichloroethene	0.215	0.225	-4.3	103	-0.03
7	T	1,1-Dichloroethane	0.415	0.416	-0.2	98	0.02
8	T	Chloroform	0.608	0.588	3.2	96	0.04
9	T	1,2-Dichloroethane	0.391	0.386	1.2	98	0.02
10	M	Toluene	0.543	0.514	5.4	92	-0.03
11	I	Chlorobenzene-d5	1.000	1.000	0.0	102	-0.02
12	S	Toluene-d8	1.799	1.764	2.0	97	-0.03
13	M	Chlorobenzene	0.876	0.835	4.7	95	-0.02
14	T	Ethylbenzene	0.334	0.308	7.9	93	-0.33
15	T	Bromoform	0.222	0.266	-19.9	111	0.00
16	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	-0.02
17	S	4-Bromofluorobenzene	1.097	1.088	0.8	104	-0.03
18	T	1,1,2,2-Tetrachloroethane	1.013	1.060	-4.7	117	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
121201D.D CCC1212.M Sat Dec 14 12:31:22 2002

Quantitation Report

Data File : D:\MSCONV\LCS12111.D
Acq Time : Dec 11, 2002 11:32:59.75 Operator:
Sample : LCS Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 12 14:01 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1210021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Wed Dec 11 09:11:11 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.92	96	410060	50.00 ug/L	-0.03
31) Chlorobenzene-d5	31.73	117	386216	50.00 ug/L	-0.05
45) 1,4-Dichlorobenzene-d4	40.33	152	139545	50.00 ug/L	-0.05
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.78	102	12310	50.09 ugL	100.18%
3) Dibromofluoromethane	18.00	113	173129	48.57 ug/L	97.15%
32) Toluene-d8	26.47	98	654910	47.25 ug/L	94.49%
46) 4-Bromofluorobenzene	36.07	95	163862	55.71 ug/L	111.42%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	9.60	96	114358	51.20 ug/L m	15
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	0.00	83		Not Detected	
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	0.00	117		Not Detected	
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.13	78	538587	55.10 ug/L	100
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	22.30	95	145057	66.80 ug/L m	92
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	26.75	92	277741	57.87 ug/L	97
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	31.87	112	368387	60.17 ug/L m	79
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106		Not Detected	
40)	p,m-Xylene	0.00	106		Not Detected	
41)	o-Xylene	0.00	106		Not Detected	
42)	Styrene	0.00	104		Not Detected	
43)	Bromoform	0.00	173		Not Detected	
44)	Isopropylbenzene	0.00	105		Not Detected	
47)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
48)	Bromobenzene	0.00	156		Not Detected	
49)	1,2,3-Trichloropropane	0.00	75		Not Detected	
50)	n-Propylbenzene	0.00	91		Not Detected	
51)	2-Chlorotoluene	0.00	91		Not Detected	
52)	1,3,5-Trimethylbenzene	0.00	105		Not Detected	
53)	4-Chlorotoluene	0.00	91		Not Detected	
54)	t-Butylbenzene	0.00	119		Not Detected	
55)	1,2,4-Trimethylbenzene	0.00	105		Not Detected	
56)	sec-Butylbenzene	0.00	105		Not Detected	
57)	p-Isopropyltoluene	0.00	119		Not Detected	
58)	1,3-Dichlorobenzene	0.00	146		Not Detected	
59)	1,4-Dichlorobenzene	0.00	146		Not Detected	
60)	n-Butylbenzene	0.00	91		Not Detected	
61)	1,2-Dichlorobenzene	0.00	146		Not Detected	
62)	1,2-Dibromo-3-chloropropan	44.63	75	420	1.10 ug/L m	58
63)	1,2,4-Trichlorobenzene	47.90	180	2778	2.89 ug/L m	92
64)	Hexachlorobutadiene	48.47	225	13719	9.40 ug/L m	83
65)	Naphthalene	48.80	128	4575	10.35 ug/L m	100
66)	1,2,3-Trichlorobenzene	49.73	180	2213	4.15 ug/L m	86

(#) = qualifier out of range (m) = manual integration
LCS12111.D 1210021.M Thu Dec 12 14:01:28 2002

Quantitation Report

Data File : D:\MSCONV\BLK1213A.D
Acq Time : Dec 13, 2002 17:10:52.14 Operator:
Sample : BLANK Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 10:18 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	21.02	96	162837	50.00 ug/L	0.07
31) Chlorobenzene-d5	31.85	117	150972	50.00 ug/L	0.07
45) 1,4-Dichlorobenzene-d4	40.45	152	47998	50.00 ug/L	0.07
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.87	102	5383	51.14 ugL	102.29%
3) Dibromofluoromethane	18.10	113	72911	53.52 ug/L	107.05%
32) Toluene-d8	26.58	98	264232	48.94 ug/L	97.88%
46) 4-Bromofluorobenzene	36.18	95	56498	53.25 ug/L	106.51%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	0.00	83		Not Detected	
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	0.00	117		Not Detected	
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	0.00	78		Not Detected	
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	0.00	112		Not Detected	
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BLK1213A.D 1212021.M Sat Dec 14 10:18:52 2002

Quantitation Report

Data File : D:\MSCONV\BT80864Z.D
Acq Time : Dec 13, 2002 23:37:29.16 Operator:
Sample : MW-11 Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 8:59 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.97	96	173432	50.00 ug/L	0.02
31) Chlorobenzene-d5	31.78	117	162471	50.00 ug/L	0.00
45) 1,4-Dichlorobenzene-d4	40.37	152	48909	50.00 ug/L	-0.02
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.85	102	5714	50.97 ugL	101.94%
3) Dibromofluoromethane	18.07	113	71219	49.09 ug/L	98.18%
32) Toluene-d8	26.52	98	288125	49.59 ug/L	99.17%
46) 4-Bromofluorobenzene	36.10	95	61546	56.93 ug/L	113.86%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	0.00	83		Not Detected	
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	0.00	117		Not Detected	
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.18	78	472957	114.13 ug/L	100
22) 1,2-Dichloroethane	20.18	62	4226	3.11 ug/L	100
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	0.00	112		Not Detected	
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80864Z.D 1212021.M Sat Dec 14 09:00:10 2002

Quantitation Report

Data File : D:\MSCONV\BT80867Z.D
Acq Time : Dec 13, 2002 20:24:09.77 Operator:
Sample : MW-10 Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 9:02 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	20.97	96	161435	50.00	ug/L	0.02
31) Chlorobenzene-d5	31.78	117	146101	50.00	ug/L	0.00
45) 1,4-Dichlorobenzene-d4	40.38	152	47139	50.00	ug/L	0.00
System Monitoring Compounds						%Recovery
2) 1,2-Dichloroethane-d4	19.83	102	5298	50.77	ugL	101.54%
3) Dibromofluoromethane	18.07	113	71661	53.06	ug/L	106.13%
32) Toluene-d8	26.53	98	261367	50.02	ug/L	100.04%
46) 4-Bromofluorobenzene	36.12	95	54430	52.24	ug/L	104.48%
Target Compounds						Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected		
5) Chloromethane	0.00	49		Not Detected		
6) Vinyl Chloride	0.00	62		Not Detected		
7) Bromomethane	0.00	94		Not Detected		
8) Chloroethane	0.00	49		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
11) Methylene Chloride	0.00	84		Not Detected		
12) t-1,2-Dichloroethene	0.00	96		Not Detected		
13) 1,1-Dichloroethane	0.00	63		Not Detected		
14) 2,2-Dichloropropane	0.00	77		Not Detected		
15) c-1,2-Dichloroethene	0.00	61		Not Detected		
16) Chloroform	0.00	83		Not Detected		
17) Bromochloromethane	0.00	49		Not Detected		
18) 1,1,1-Trichloroethane	0.00	97		Not Detected		
19) Carbon Tetrachloride	0.00	117		Not Detected		
20) 1,1-Dichloropropene	0.00	75		Not Detected		
21) Benzene	0.00	78		Not Detected		
22) 1,2-Dichloroethane	0.00	62		Not Detected		
23) Trichloroethene	0.00	95		Not Detected		
24) 1,2-Dichloropropane	0.00	63		Not Detected		
25) Bromodichloromethane	0.00	83		Not Detected		
26) Dibromomethane	0.00	93		Not Detected		
27) c-1,3-Dichloropropene	0.00	75		Not Detected		
28) Toluene	0.00	92		Not Detected		
29) t-1,3-Dichloropropene	0.00	75		Not Detected		
30) 1,1,2-Trichloroethane	0.00	83		Not Detected		
33) Tetrachloroethene	0.00	166		Not Detected		
34) 1,3-Dichloropropane	0.00	76		Not Detected		
35) Dibromochloromethane	0.00	129		Not Detected		
36) 1,2-Dibromoethane	0.00	107		Not Detected		
37) Chlorobenzene	0.00	112		Not Detected		
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected		

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80867Z.D 1212021.M Sat Dec 14 09:03:08 2002

Quantitation Report

Data File : D:\MSCONV\BT80868Z.D
Acq Time : Dec 13, 2002 21:28:36.20 Operator:
Sample : MW-7 Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 9:09 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	20.95	96	165203	50.00	ug/L	0.00
31) Chlorobenzene-d5	31.78	117	151228	50.00	ug/L	0.00
45) 1,4-Dichlorobenzene-d4	40.37	152	50164	50.00	ug/L	-0.02
System Monitoring Compounds						%Recovery
2) 1,2-Dichloroethane-d4	19.83	102	5429	50.84	ugL	101.68%
3) Dibromofluoromethane	18.07	113	72810	52.68	ug/L	105.37%
32) Toluene-d8	26.52	98	270288	49.98	ug/L	99.95%
46) 4-Bromofluorobenzene	36.12	95	58969	53.18	ug/L	106.36%
Target Compounds						Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected		
5) Chloromethane	0.00	49		Not Detected		
6) Vinyl Chloride	0.00	62		Not Detected		
7) Bromomethane	0.00	94		Not Detected		
8) Chloroethane	0.00	49		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
11) Methylene Chloride	0.00	84		Not Detected		
12) t-1,2-Dichloroethene	0.00	96		Not Detected		
13) 1,1-Dichloroethane	0.00	63		Not Detected		
14) 2,2-Dichloropropane	0.00	77		Not Detected		
15) c-1,2-Dichloroethene	0.00	61		Not Detected		
16) Chloroform	0.00	83		Not Detected		
17) Bromochloromethane	0.00	49		Not Detected		
18) 1,1,1-Trichloroethane	0.00	97		Not Detected		
19) Carbon Tetrachloride	0.00	117		Not Detected		
20) 1,1-Dichloropropene	0.00	75		Not Detected		
21) Benzene	0.00	78		Not Detected		
22) 1,2-Dichloroethane	0.00	62		Not Detected		
23) Trichloroethene	0.00	95		Not Detected		
24) 1,2-Dichloropropane	0.00	63		Not Detected		
25) Bromodichloromethane	0.00	83		Not Detected		
26) Dibromomethane	0.00	93		Not Detected		
27) c-1,3-Dichloropropene	0.00	75		Not Detected		
28) Toluene	0.00	92		Not Detected		
29) t-1,3-Dichloropropene	0.00	75		Not Detected		
30) 1,1,2-Trichloroethane	0.00	83		Not Detected		
33) Tetrachloroethene	0.00	166		Not Detected		
34) 1,3-Dichloropropane	0.00	76		Not Detected		
35) Dibromochloromethane	0.00	129		Not Detected		
36) 1,2-Dibromoethane	0.00	107		Not Detected		
37) Chlorobenzene	0.00	112		Not Detected		
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected		

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80868Z.D 1212021.M Sat Dec 14 09:09:38 2002

Quantitation Report

Data File : D:\MSCONV\BT80869.D
Acq Time : Dec 12, 2002 3:15:38.56 Operator:
Sample : TRIP BLANK (12/4) Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 10:59 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1210021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Wed Dec 11 09:11:11 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.95	96	194821	50.00 ug/L	0.00
31) Chlorobenzene-d5	31.77	117	189630	50.00 ug/L	-0.02
45) 1,4-Dichlorobenzene-d4	40.33	152	69128	50.00 ug/L	-0.05
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.80	102	6696	57.35 ugL	114.69%
3) Dibromofluoromethane	18.03	113	90281	53.31 ug/L	106.63%
32) Toluene-d8	26.48	98	334423	49.14 ug/L	98.27%
46) 4-Bromofluorobenzene	36.08	95	77927	53.48 ug/L	106.96%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	17.23	83	5391	2.05 ug/L	93
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	0.00	117		Not Detected	
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	0.00	78		Not Detected	
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	0.00	112		Not Detected	
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80869.D 1210021.M Sat Dec 14 10:59:36 2002

Quantitation Report

Data File : D:\MSCONV\BT80870Z.D
Acq Time : Dec 13, 2002 22:33:03.61 Operator:
Sample : MW-9 Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 9:06 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.98	96	167657	50.00 ug/L	0.03
31) Chlorobenzene-d5	31.78	117	156947	50.00 ug/L	0.00
45) 1,4-Dichlorobenzene-d4	40.37	152	52115	50.00 ug/L	-0.02
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.85	102	5349	49.36 ugL	98.72%
3) Dibromofluoromethane	18.07	113	71288	50.83 ug/L	101.66%
32) Toluene-d8	26.52	98	278168	49.56 ug/L	99.12%
46) 4-Bromofluorobenzene	36.10	95	59642	51.78 ug/L	103.55%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	9.67	96	4271	5.92 ug/L m	1
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	0.00	83		Not Detected	
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	0.00	117		Not Detected	
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.20	78	36650	9.15 ug/L	100
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	0.00	112		Not Detected	
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106		Not Detected	
40)	p,m-Xylene	0.00	106		Not Detected	
41)	o-Xylene	0.00	106		Not Detected	
42)	Styrene	0.00	104		Not Detected	
43)	Bromoform	0.00	173		Not Detected	
44)	Isopropylbenzene	35.25	105	11703	2.48 ug/L	95
47)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
48)	Bromobenzene	0.00	156		Not Detected	
49)	1,2,3-Trichloropropane	0.00	75		Not Detected	
50)	n-Propylbenzene	0.00	91		Not Detected	
51)	2-Chlorotoluene	0.00	91		Not Detected	
52)	1,3,5-Trimethylbenzene	0.00	105		Not Detected	
53)	4-Chlorotoluene	0.00	91		Not Detected	
54)	t-Butylbenzene	0.00	119		Not Detected	
55)	1,2,4-Trimethylbenzene	0.00	105		Not Detected	
56)	sec-Butylbenzene	0.00	105		Not Detected	
57)	p-Isopropyltoluene	0.00	119		Not Detected	
58)	1,3-Dichlorobenzene	0.00	146		Not Detected	
59)	1,4-Dichlorobenzene	0.00	146		Not Detected	
60)	n-Butylbenzene	0.00	91		Not Detected	
61)	1,2-Dichlorobenzene	0.00	146		Not Detected	
62)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
63)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
64)	Hexachlorobutadiene	0.00	225		Not Detected	
65)	Naphthalene	0.00	128		Not Detected	
66)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration
BT80870Z.D 1212021.M Sat Dec 14 09:06:34 2002

Quantitation Report

Data File : D:\2002DATA\1202DATA\ITDS01\BT80871.D
Acq Time : Dec 11, 2002 20:49:16.98 Operator:
Sample : MW-4 Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 17:45 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1210021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Wed Dec 11 09:11:11 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.95	96	372601	50.00 ug/L	0.00
31) Chlorobenzene-d5	31.77	117	358424	50.00 ug/L	-0.02
45) 1,4-Dichlorobenzene-d4	40.35	152	137579	50.00 ug/L	-0.03
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.83	102	12216	54.70 ugL	109.41%
3) Dibromofluoromethane	18.05	113	173293	53.51 ug/L	107.01%
32) Toluene-d8	26.50	98	630724	49.03 ug/L	98.06%
46) 4-Bromofluorobenzene	36.10	95	162145	55.91 ug/L	111.83%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	5.05	49	447	1.72 ug/L #	59
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	6.67	49	18361	63.03 ug/L m	27
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	0.00	83		Not Detected	
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	19.57	117	35999	10.44 ug/L	86
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.17	78	127794	14.39 ug/L	100
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	31.90	112	10276	1.81 ug/L	98
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106		Not Detected	
40)	p,m-Xylene	0.00	106		Not Detected	
41)	o-Xylene	0.00	106		Not Detected	
42)	Styrene	0.00	104		Not Detected	
43)	Bromoform	0.00	173		Not Detected	
44)	Isopropylbenzene	35.32	105	13310	1.26 ug/L #	64
47)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
48)	Bromobenzene	0.00	156		Not Detected	
49)	1,2,3-Trichloropropane	0.00	75		Not Detected	
50)	n-Propylbenzene	0.00	91		Not Detected	
51)	2-Chlorotoluene	0.00	91		Not Detected	
52)	1,3,5-Trimethylbenzene	0.00	105		Not Detected	
53)	4-Chlorotoluene	0.00	91		Not Detected	
54)	t-Butylbenzene	0.00	119		Not Detected	
55)	1,2,4-Trimethylbenzene	0.00	105		Not Detected	
56)	sec-Butylbenzene	0.00	105		Not Detected	
57)	p-Isopropyltoluene	0.00	119		Not Detected	
58)	1,3-Dichlorobenzene	0.00	146		Not Detected	
59)	1,4-Dichlorobenzene	0.00	146		Not Detected	
60)	n-Butylbenzene	0.00	91		Not Detected	
61)	1,2-Dichlorobenzene	0.00	146		Not Detected	
62)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
63)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
64)	Hexachlorobutadiene	0.00	225		Not Detected	
65)	Naphthalene	48.80	128	2346	5.38 ug/L m	100
66)	1,2,3-Trichlorobenzene	49.77	180	951	1.81 ug/L m	77

(#) = qualifier out of range (m) = manual integration
BT80871.D 1210021.M Sat Dec 14 17:45:11 2002

Quantitation Report

Data File : D:\2002DATA\1202DATA\ITDS01\BT80874.D
Acq Time : Dec 11, 2002 16:31:12.82 Operator:
Sample : MW-8 Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 17:27 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1210021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Wed Dec 11 09:11:11 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.98	96	417057	50.00 ug/L	0.03
31) Chlorobenzene-d5	31.78	117	383120	50.00 ug/L	0.00
45) 1,4-Dichlorobenzene-d4	40.37	152	144433	50.00 ug/L	-0.02
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	20.18	102	17554	70.23 ugL	140.46%
3) Dibromofluoromethane	18.07	113	154593	42.64 ug/L	85.29%
32) Toluene-d8	26.52	98	708516	51.53 ug/L	103.05%
46) 4-Bromofluorobenzene	36.12	95	172970	56.82 ug/L	113.63%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	5.03	49	11367	39.16 ug/L	96
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	6.57	94	3829	4.07 ug/L	97
8) Chloroethane	6.85	49	21425	65.71 ug/L m	0
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	9.78	96	38516	16.96 ug/L m	62
11) Methylene Chloride	11.53	84	54627	26.05 ug/L m	1
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	16.65	61	65305	18.63 ug/L #	76
16) Chloroform	17.30	83	15950626	2829.06 ug/L	98
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	19.63	117	41959439	10874.20 ug/L #	9
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.37	78	17806914	1791.24 ug/L m	100
22) 1,2-Dichloroethane	20.28	62	64811	20.20 ug/L	100
23) Trichloroethene	22.43	95	12814	5.80 ug/L	86
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	23.82	83	25121	6.84 ug/L	96
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	26.78	92	136684	28.00 ug/L	96
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	29.05	166	24894	8.51 ug/L #	67
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	31.92	112	2597959	427.79 ug/L #	76
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	32.15	106	129342	55.57 ug/L m	1
40)	p,m-Xylene	32.42	106	188522	53.00 ug/L #	1
41)	o-Xylene	33.97	106	87381	26.01 ug/L	88
42)	Styrene	0.00	104		Not Detected	
43)	Bromoform	0.00	173		Not Detected	
44)	Isopropylbenzene	35.23	105	51765	4.60 ug/L #	64
47)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
48)	Bromobenzene	0.00	156		Not Detected	
49)	1,2,3-Trichloropropane	0.00	75		Not Detected	
50)	n-Propylbenzene	0.00	91		Not Detected	
51)	2-Chlorotoluene	0.00	91		Not Detected	
52)	1,3,5-Trimethylbenzene	37.10	105	13141	1.62 ug/L m	31
53)	4-Chlorotoluene	0.00	91		Not Detected	
54)	t-Butylbenzene	0.00	119		Not Detected	
55)	1,2,4-Trimethylbenzene	38.67	105	14059	1.81 ug/L m	98
56)	sec-Butylbenzene	0.00	105		Not Detected	
57)	p-Isopropyltoluene	39.82	119	162045	23.85 ug/L m	95
58)	1,3-Dichlorobenzene	40.48	146	13254	3.75 ug/L m	71
59)	1,4-Dichlorobenzene	40.48	146	13254	3.80 ug/L m	74
60)	n-Butylbenzene	0.00	91		Not Detected	
61)	1,2-Dichlorobenzene	41.82	146	9475	2.71 ug/L m	74
62)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
63)	1,2,4-Trichlorobenzene	47.92	180	2846	2.86 ug/L m	74
64)	Hexachlorobutadiene	0.00	225		Not Detected	
65)	Naphthalene	48.83	128	4184	9.14 ug/L m	100
66)	1,2,3-Trichlorobenzene	49.77	180	1409	2.55 ug/L m	83

(#) = qualifier out of range (m) = manual integration
BT80874.D 1210021.M Sat Dec 14 17:27:42 2002

Quantitation Report

Data File : D:\MSCONV\BT80874Z.D
Acq Time : Dec 14, 2002 4:59:54.3 Operator:
Sample : MW-8 Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 10:30 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.95	96	166675	50.00 ug/L	0.00
31) Chlorobenzene-d5	31.77	117	150817	50.00 ug/L	-0.02
45) 1,4-Dichlorobenzene-d4	40.37	152	46450	50.00 ug/L	-0.02
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.80	102	5342	49.58 ugL	99.17%
3) Dibromofluoromethane	18.05	113	72762	52.18 ug/L	104.37%
32) Toluene-d8	26.50	98	274334	50.86 ug/L	101.72%
46) 4-Bromofluorobenzene	36.10	95	56972	55.49 ug/L	110.98%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	1800
16) Chloroform	17.27	83	37130 ~~MG/18.33~~	ug/L	99
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	1600
19) Carbon Tetrachloride	19.58	117	28829 ~~MG/163.07~~	ug/L #	5
20) 1,1-Dichloropropene	0.00	75		Not Detected	6900
21) Benzene	20.17	78	272858 MG/ ~~68.51~~	ug/L	100
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	290
37) Chlorobenzene	31.92	112	7689 MG/ ~~72.92~~	ug/L #	47
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80874Z.D 1212021.M Sat Dec 14 10:30:30 2002

Quantitation Report

Data File : D:\MSCONV\BT80875Z.D
Acq Time : Dec 14, 2002 6:04:08.4
Sample : MATRIX SPIKE 1:100
Misc :
Quant Time: Dec 14 10:29 19102

Operator:
Inst :
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.98	96	172896	50.00 ug/L	0.03
31) Chlorobenzene-d5	31.80	117	156351	50.00 ug/L	0.02
45) 1,4-Dichlorobenzene-d4	40.38	152	48187	50.00 ug/L	0.00
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.88	102	5330	47.69 ugL	95.39%
3) Dibromofluoromethane	18.10	113	75728	52.36 ug/L	104.71%
32) Toluene-d8	26.55	98	282241	50.48 ug/L	100.95%
46) 4-Bromofluorobenzene	36.12	95	57105	53.61 ug/L	107.23%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	9.65	96	38239	51.43 ug/L	88
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	17.32	83	40016	~~19.04~~ ug/L	100
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	19.60	117	29661	~~161.74~~ ug/L	95
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.22	78	494242	119.63 ug/L	100
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	22.38	95	49661	52.75 ug/L	99
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	26.82	92	90573	48.34 ug/L	95
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	31.93	112	147489	54.03 ug/L #	85
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

1900
16000

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80875Z.D 1212021.M Sat Dec 14 10:29:41 2002

1,1-Dichloroethene 51.43 - 0 = 51.43

Benzene 119.63 - 68.51 = 51.12

Trichloroethene 52.75 - 0 = 52.75

Toluene 48.34 - 0 = 48.34

~~54.03~~

Chlorobenzene 54.03 - 2.92 = 51.11

Quantitation Report

Data File : D:\MSCONV\BT80876Z.D
Acq Time : Dec 14, 2002 7:08:33.58
Sample : MATRIX SPIKE DUP 1:100
Misc :
Quant Time: Dec 14 10:28 19102

Operator:
Inst :
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.95	96	174613	50.00 ug/L	0.00
31) Chlorobenzene-d5	31.77	117	156429	50.00 ug/L	-0.02
45) 1,4-Dichlorobenzene-d4	40.35	152	51339	50.00 ug/L	-0.03
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.82	102	5541	49.09 ugL	98.19%
3) Dibromofluoromethane	18.05	113	75301	51.55 ug/L	103.10%
32) Toluene-d8	26.50	98	281537	50.32 ug/L	100.65%
46) 4-Bromofluorobenzene	36.08	95	61038	53.79 ug/L	107.58%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	9.58	96	40446	53.86 ug/L #	60
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	180
16) Chloroform	17.25	83	37900 m67 ~~17.86~~	ug/L #	21
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	19.57	117	26351 m67 ~~142.28~~	ug/L #	89 (110 68)
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.15	78	487066	116.73 ug/L	100
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	22.33	95	51453	54.12 ug/L	100
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	26.78	92	95071	50.24 ug/L	95
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	31.90	112	157086	57.51 ug/L	87
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80876Z.D 1212021.M Sat Dec 14 10:29:00 2002

1,1-Dichloroethene 53,86 -0 = 53,86
Benzene 116,73 - 68,51 = 48.22
Trichloroethene 54,12 -0 = 54,12
Toluene 50,24 -0 = 50,24
Chlorobenzene 97,51 - 2,92 = 54,59

Quantitation Report

Data File : D:\MSCONV\BT80877Z.D
Acq Time : Dec 13, 2002 18:15:18.68 Operator:
Sample : RINSATE BLANK Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 9:24 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	20.98	96	163364	50.00	ug/L	0.03
31) Chlorobenzene-d5	31.80	117	153648	50.00	ug/L	0.02
45) 1,4-Dichlorobenzene-d4	40.42	152	47707	50.00	ug/L	0.03
System Monitoring Compounds						%Recovery
2) 1,2-Dichloroethane-d4	19.87	102	5550	52.56	ugL	105.12%
3) Dibromofluoromethane	18.07	113	69996	51.22	ug/L	102.44%
32) Toluene-d8	26.53	98	275313	50.10	ug/L	100.21%
46) 4-Bromofluorobenzene	36.17	95	56264	53.36	ug/L	106.71%
Target Compounds						Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected		
5) Chloromethane	0.00	49		Not Detected		
6) Vinyl Chloride	0.00	62		Not Detected		
7) Bromomethane	0.00	94		Not Detected		
8) Chloroethane	0.00	49		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
11) Methylene Chloride	11.20	84		Not Detected		
12) t-1,2-Dichloroethene	0.00	96		Not Detected		
13) 1,1-Dichloroethane	0.00	63		Not Detected		
14) 2,2-Dichloropropane	0.00	77		Not Detected		
15) c-1,2-Dichloroethene	0.00	61		Not Detected		
16) Chloroform	0.00	83		Not Detected		
17) Bromochloromethane	0.00	49		Not Detected		
18) 1,1,1-Trichloroethane	0.00	97		Not Detected		
19) Carbon Tetrachloride	0.00	117		Not Detected		
20) 1,1-Dichloropropene	0.00	75		Not Detected		
21) Benzene	0.00	78		Not Detected		
22) 1,2-Dichloroethane	0.00	62		Not Detected		
23) Trichloroethene	0.00	95		Not Detected		
24) 1,2-Dichloropropane	0.00	63		Not Detected		
25) Bromodichloromethane	0.00	83		Not Detected		
26) Dibromomethane	0.00	93		Not Detected		
27) c-1,3-Dichloropropene	0.00	75		Not Detected		
28) Toluene	0.00	92		Not Detected		
29) t-1,3-Dichloropropene	0.00	75		Not Detected		
30) 1,1,2-Trichloroethane	0.00	83		Not Detected		
33) Tetrachloroethene	0.00	166		Not Detected		
34) 1,3-Dichloropropane	0.00	76		Not Detected		
35) Dibromochloromethane	0.00	129		Not Detected		
36) 1,2-Dibromoethane	0.00	107		Not Detected		
37) Chlorobenzene	0.00	112		Not Detected		
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected		

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80877Z.D 1212021.M Sat Dec 14 09:24:50 2002

Quantitation Report

Data File : D:\MSCONV\BT80878Z.D
Acq Time : Dec 13, 2002 19:19:46.9 Operator:
Sample : TRIP BLANK Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 9:27 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1212021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Fri Dec 13 13:42:53 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	21.02	96	163651	50.00 ug/L	0.07
31) Chlorobenzene-d5	31.80	117	150183	50.00 ug/L	0.02
45) 1,4-Dichlorobenzene-d4	40.40	152	49358	50.00 ug/L	0.02
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.87	102	5438	51.41 ugL	102.82%
3) Dibromofluoromethane	18.10	113	76581	55.94 ug/L	111.88%
32) Toluene-d8	26.55	98	267982	49.89 ug/L	99.79%
46) 4-Bromofluorobenzene	36.13	95	57163	52.40 ug/L	104.79%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	0.00	49		Not Detected	
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	0.00	49		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	17.33	83	2389	1.20 ug/L	99
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	0.00	117		Not Detected	
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	0.00	78		Not Detected	
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	0.00	112		Not Detected	
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106	Not Detected
40)	p,m-Xylene	0.00	106	Not Detected
41)	o-Xylene	0.00	106	Not Detected
42)	Styrene	0.00	104	Not Detected
43)	Bromoform	0.00	173	Not Detected
44)	Isopropylbenzene	0.00	105	Not Detected
47)	1,1,2,2-Tetrachloroethane	0.00	83	Not Detected
48)	Bromobenzene	0.00	156	Not Detected
49)	1,2,3-Trichloropropane	0.00	75	Not Detected
50)	n-Propylbenzene	0.00	91	Not Detected
51)	2-Chlorotoluene	0.00	91	Not Detected
52)	1,3,5-Trimethylbenzene	0.00	105	Not Detected
53)	4-Chlorotoluene	0.00	91	Not Detected
54)	t-Butylbenzene	0.00	119	Not Detected
55)	1,2,4-Trimethylbenzene	0.00	105	Not Detected
56)	sec-Butylbenzene	0.00	105	Not Detected
57)	p-Isopropyltoluene	0.00	119	Not Detected
58)	1,3-Dichlorobenzene	0.00	146	Not Detected
59)	1,4-Dichlorobenzene	0.00	146	Not Detected
60)	n-Butylbenzene	0.00	91	Not Detected
61)	1,2-Dichlorobenzene	0.00	146	Not Detected
62)	1,2-Dibromo-3-chloropropan	0.00	75	Not Detected
63)	1,2,4-Trichlorobenzene	0.00	180	Not Detected
64)	Hexachlorobutadiene	0.00	225	Not Detected
65)	Naphthalene	0.00	128	Not Detected
66)	1,2,3-Trichlorobenzene	0.00	180	Not Detected

(#) = qualifier out of range (m) = manual integration
BT80878Z.D 1212021.M Sat Dec 14 09:27:34 2002

Quantitation Report

Data File : D:\2002DATA\1202DATA\ITDS01\BT80879.D
Acq Time : Dec 11, 2002 21:53:22.37 Operator:
Sample : DUP Inst :
Misc : Multiplr: 1.00
Quant Time: Dec 14 17:30 19102

Method : D:\HPCHEM\1\METHODS\01CURVES\1210021.M
Title : 5-Point Calibration for Method 8260B
Last Update : Wed Dec 11 09:11:11 2002
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	20.92	96	378878	50.00 ug/L	-0.03
31) Chlorobenzene-d5	31.75	117	356956	50.00 ug/L	-0.03
45) 1,4-Dichlorobenzene-d4	40.33	152	135480	50.00 ug/L	-0.05
System Monitoring Compounds					%Recovery
2) 1,2-Dichloroethane-d4	19.83	102	11917	52.48 ugL	104.96%
3) Dibromofluoromethane	18.02	113	173829	52.78 ug/L	105.57%
32) Toluene-d8	26.50	98	639231	49.90 ug/L	99.79%
46) 4-Bromofluorobenzene	36.08	95	157170	55.04 ug/L	110.08%
Target Compounds					Qvalue
4) Dichlorodifluoromethane	0.00	85		Not Detected	
5) Chloromethane	5.05	49	315	1.19 ug/L #	22
6) Vinyl Chloride	0.00	62		Not Detected	
7) Bromomethane	0.00	94		Not Detected	
8) Chloroethane	7.08	49	19180	64.75 ug/L m	82
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
11) Methylene Chloride	0.00	84		Not Detected	
12) t-1,2-Dichloroethene	0.00	96		Not Detected	
13) 1,1-Dichloroethane	0.00	63		Not Detected	
14) 2,2-Dichloropropane	0.00	77		Not Detected	
15) c-1,2-Dichloroethene	0.00	61		Not Detected	
16) Chloroform	0.00	83		Not Detected	
17) Bromochloromethane	0.00	49		Not Detected	
18) 1,1,1-Trichloroethane	0.00	97		Not Detected	
19) Carbon Tetrachloride	19.53	117	19377	5.53 ug/L	88
20) 1,1-Dichloropropene	0.00	75		Not Detected	
21) Benzene	20.13	78	101258	11.21 ug/L	100
22) 1,2-Dichloroethane	0.00	62		Not Detected	
23) Trichloroethene	0.00	95		Not Detected	
24) 1,2-Dichloropropane	0.00	63		Not Detected	
25) Bromodichloromethane	0.00	83		Not Detected	
26) Dibromomethane	0.00	93		Not Detected	
27) c-1,3-Dichloropropene	0.00	75		Not Detected	
28) Toluene	0.00	92		Not Detected	
29) t-1,3-Dichloropropene	0.00	75		Not Detected	
30) 1,1,2-Trichloroethane	0.00	83		Not Detected	
33) Tetrachloroethene	0.00	166		Not Detected	
34) 1,3-Dichloropropane	0.00	76		Not Detected	
35) Dibromochloromethane	0.00	129		Not Detected	
36) 1,2-Dibromoethane	0.00	107		Not Detected	
37) Chlorobenzene	31.88	112	6475	1.14 ug/L #	26
38) 1,1,1,2-Tetrachloroethane	0.00	131		Not Detected	

39)	Ethylbenzene	0.00	106		Not Detected	
40)	p,m-Xylene	0.00	106		Not Detected	
41)	o-Xylene	0.00	106		Not Detected	
42)	Styrene	0.00	104		Not Detected	
43)	Bromoform	0.00	173		Not Detected	
44)	Isopropylbenzene	35.32	105	10547	1.01 ug/L #	67
47)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
48)	Bromobenzene	0.00	156		Not Detected	
49)	1,2,3-Trichloropropane	0.00	75		Not Detected	
50)	n-Propylbenzene	0.00	91		Not Detected	
51)	2-Chlorotoluene	0.00	91		Not Detected	
52)	1,3,5-Trimethylbenzene	0.00	105		Not Detected	
53)	4-Chlorotoluene	0.00	91		Not Detected	
54)	t-Butylbenzene	0.00	119		Not Detected	
55)	1,2,4-Trimethylbenzene	0.00	105		Not Detected	
56)	sec-Butylbenzene	0.00	105		Not Detected	
57)	p-Isopropyltoluene	0.00	119		Not Detected	
58)	1,3-Dichlorobenzene	0.00	146		Not Detected	
59)	1,4-Dichlorobenzene	0.00	146		Not Detected	
60)	n-Butylbenzene	0.00	91		Not Detected	
61)	1,2-Dichlorobenzene	0.00	146		Not Detected	
62)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
63)	1,2,4-Trichlorobenzene	47.92	180	2022	2.17 ug/L m	82
64)	Hexachlorobutadiene	0.00	225		Not Detected	
65)	Naphthalene	48.82	128	3150	7.34 ug/L m	100
66)	1,2,3-Trichlorobenzene	49.75	180	1411	2.73 ug/L m	83

(#) = qualifier out of range (m) = manual integration
BT80879.D 1210021.M Sat Dec 14 17:31:01 2002

Bonner Analytical Testing Company

2703 Oak Grove Road, Hattiesburg, MS 39402
Phone: (601) 264-2854 Fax: (601) 268-7084

CASE NARRATIVE: Hercules

Semi-volatiles(BNA analysis)

Samples were collected on December 4th and 5th from Hercules in Hattiesburg, MS. They were received at BATCO on December 5, 2002 and included monitoring wells 7, 8, 9, 10, and 11. A duplicate sample, a matrix spike/matrix spike duplicate, and a rinsate blank were also collected for BNA analysis.

Samples were extracted on December 10, 2002 according to EPA SW-846 method 3510C and analyzed according to EPA SW-846 method 8270C on December 11, 2002. No complications were observed during the extraction process or in the analysis of the samples.

No compounds listed in method 8270 were found in the samples except for 4-methylphenol, which was observed in BT80874 and the duplicate sample. The concentration of 4-methylphenol in BT80874 was 13.16 ppb and the concentration in the duplicate sample was 12.76 ppb.

A DFTPP standard was run on the GC/MS to ensure the machine was functioning properly. A six-point curve was also installed prior to the injection of the Hercules samples. The concentrations of the curve range from 10 ppm to 100 ppm. The percent RSD for all compounds in the curve was below 15%. Also, calibration verifications were run during the sequence for QA/QC purposes. Both the DFTPP standard and the calibration verifications passed. Also, all SPCC and CCC compounds passed according to method 8270C.

Authorized by: _____
Michael S. Bonner, PhD.

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: HERCULES
Location: MW11
File #: BT80864

	Date	Time	Analyst
Collected:	12/4/02	12:10	MGJ
Extracted:	12/10/02	8:00	WTD
Analyzed:	12/10/02	21:44	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80864 Detected Amount ug/L (ppb)	BT80864 Spike Amount ug	BT80864 Spike % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Spike Amount ug	BLANK Spike % Recovery	LAB CONTROL Detected Amount ng/ul in the extract	LAB CONTROL Spike Amount ug	LAB CONTROL Spike % Recovery	Matrix Spike Detected Amount ng/ul in the extract	Matrix Spike Amount ug	Matrix Spike % Recovery
Phenol	108-95-2	5.2	ND			ND			76.13	150.00	50.75	42.25	150.00	28.17
Bis(2-chloroethyl)ether	111-44-4	6.9	ND			ND			ND			ND		
2-Chlorophenol	95-57-8	5.7	ND			ND			124.32	150.00	82.88	155.86	150.00	103.91
1,3-Dichlorobenzene	541-73-1	8.3	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	6.1	ND			ND			54.22	100.00	54.22	69.80	100.00	69.80
Benzyl Alcohol	100-51-6	14.8	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	6.0	ND			ND			ND			ND		
2-Methylphenol	95-48-7	5.6	ND			ND			ND			ND		
Bis(2-chloroisopropyl)ether	108-60-1	8.8	ND			ND			ND			ND		
4-Methylphenol	106-44-5	8.7	ND			ND			ND			ND		
Hexachloroethane	67-72-1	8.0	ND			ND			ND			ND		
N-Nitroso-di-N-propylamine	621-64-7	9.7	ND			ND			76.46	100.00	76.46	88.35	100.00	100.00
Nitrobenzene	98-95-3	8.2	ND			ND			ND			ND		
Isophorone	78-59-1	9.2	ND			ND			ND			ND		
2,4-Dimethylphenol	105-67-9	6.0	ND			ND			ND			ND		
2-Nitrophenol	88-75-5	9.1	ND			ND			ND			ND		
Benzoic Acid	65-85-0	22.3	ND			ND			ND			ND		
Bis(2-chloroethoxy)methane	111-91-1	8.8	ND			ND			ND			ND		
2,4-Dichlorophenol	120-83-2	5.2	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	9.4	ND			ND			61.87	100.00	61.87	75.01	100.00	75.01
Naphthalene	91-20-3	8.5	ND			ND			ND			ND		
4-Chloroaniline	106-47-8	8.5	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	9.4	ND			ND			ND			ND		
4-Chloro-3-methylphenol	59-50-7	7.7	ND			ND			131.76	100.00	131.76	134.86	150.00	89.91
2-Methylnaphthalene	91-57-6	7.5	ND			ND			ND			ND		
Hexachlorocyclopentadiene	77-47-4	8.6	ND			ND			ND			ND		
2,4,6-Trichlorophenol	88-06-2	9.1	ND			ND			ND			ND		
2,4,5-Trichlorophenol	95-95-4	7.1	ND			ND			ND			ND		
2-Chloronaphthalene	91-58-7	5.7	ND			ND			ND			ND		
2-Nitroaniline	88-74-4	12.0	ND			ND			ND			ND		
Dimethylphthalate	131-11-3	8.2	ND			ND			ND			ND		
Acenaphthylene	208-96-8	9.0	ND			ND			ND			ND		
2,6-Dinitrotoluene	606-20-2	9.2	ND			ND			ND			ND		
3-Nitroaniline	99-09-2	16.0	ND			ND			ND			ND		
Acenaphthene	83-32-9	8.3	ND			ND			84.79	100.00	84.79	92.86	100.00	92.86
2,4-Dinitrophenol	51-28-5	14.2	ND			ND			35.61	150.00	23.74	97.42	150.00	64.95
4-Nitrophenol	100-02-7	8.6	ND			ND			35.61	150.00	23.74	20.32	150.00	13.55
Dibenzofuran	132-64-9	8.4	ND			ND			ND			ND		
2,4-Dinitrotoluene	121-14-2	8.3	ND			ND			ND			ND		
Diethylphthalate	84-66-2	9.9	ND			ND			ND			ND		
Fluorene	86-73-7	9.8	ND			ND			ND			ND		
4-Chlorophenyl-phenylether	7005-72-3	8.3	ND			ND			ND			ND		
4-Nitroaniline	100-01-6	8.7	ND			ND			ND			ND		
4,6-Dinitro-2-methylphenol	534-52-1	12.2	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: **HERCULES**
Location: **MW11**
File #: **BT80864**

	Date	Time	Analyst
Collection:	12/4/02	12:10	MGJ
Extraction:	12/10/02	8:00	WTD
Analysis:	12/10/02	21:44	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80864 Detected Amount ug/L (ppb)	BT80864 Spike Amount ug	BT80864 Spike % Recovery	Method Blank Detected Amount ug/L (ppb)	Method Blank Spike Amount ug	Method Blank Spike % Recovery	LAB CONTROL Detected Amount ng/ul in the extract	LAB CONTROL Spike Amount ug	LAB CONTROL Spike % Recovery	Matrix Spike Detected Amount ng/ul in the extract	Matrix Spike Spike Amount ug	Matrix Spike Spike % Recovery
N-Nitrosodiphenylamine	86-30-6	7.5	ND			ND			ND			ND		
4-Bromophenyl-phenylether	101-55-3	7.0	ND			ND			ND			ND		
Hexachlorobenzene	118-74-1	8.0	ND			ND			ND			ND		
Pentachlorophenol	87-86-5	12.5	ND			ND			142.77	150.00	95.18	104.13	150.00	69.42
Phenanthrene	85-01-8	7.1	ND			ND			ND			ND		
Anthracene	120-12-7	8.0	ND			ND			ND			ND		
Di-n-butylphthalate	84-74-2	7.8	ND			ND			ND			ND		
Fluoranthene	206-44-0	5.7	ND			ND			ND			ND		
Pyrene	129-00-0	7.9	ND			ND			ND			ND		
Butylbenzylphthalate	85-68-7	9.9	ND			ND			ND			ND		
Benzo(a)anthracene	56-55-3	7.7	ND			ND			ND			ND		
3,3'-Dichlorobenzidiene	91-94-1	16.5	ND			ND			ND			ND		
Chrysene	218-01-9	7.8	ND			ND			ND			ND		
Bis(2-ethylhexyl)phthalate	117-81-7	9.1	ND			ND			ND			ND		
Di-n-octylphthalate	117-84-0	9.4	ND			ND			ND			ND		
Benzo(b)fluoranthene	205-99-2	6.8	ND			ND			ND			ND		
Benzo(k)fluoranthene	207-08-9	4.9	ND			ND			ND			ND		
Benzo(a)pyrene	50-32-8	5.9	ND			ND			ND			ND		
Indeno(1,2,3-c,d)pyrene	193-39-5	7.8	ND			ND			ND			ND		
Dibenzo(a,h)anthracene	53-70-3	9.0	ND			ND			ND			ND		
Benzo(g,h,i)perylene	191-24-2	10.0	ND			ND			ND			ND		
Azobenzene	103-33-3	9.5	ND			ND			ND			ND		
Benzidine	92-87-5	6.6	ND			ND			ND			ND		
N-Nitrosodimethylamine	62-75-9	8.2	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
2-Fluorophenol			53.57	200.00	26.79	116.04	200.00	58.02	108.06	200.00	54.03	114.89	200.00	57.45
Phenol-d5			36.93	200.00	18.47	89.38	200.00	44.69	85.93	200.00	42.97	30.27	200.00	15.14
Nitrobenzene-d5			55.08	100.00	55.08	77.13	100.00	77.13	68.48	100.00	68.48	113.63	100.00	113.63
2-Fluorobiphenyl			43.69	100.00	43.69	95.45	100.00	95.45	85.07	100.00	85.07	93.90	100.00	93.90
2,4,6-Tribromophenol			128.0	200.00	64.00	209.08	200.00	104.54	207.66	200.00	103.83	181.50	200.00	90.75
Terphenyl-d14			101.86	100.00	101.86	89.62	100.00	89.62	88.87	100.00	88.87	100.21	100.00	100.21

Certified by:

Micheal S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: HERCULES
Location: MW10
File #: BT80867

	Date	Time	Analyst
Collected:	12/4/02	16:40	MGJ
Extracted:	12/10/02	8:00	WTD
Analyzed:	12/10/02	22:43	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80867			BLANK			LAB CONTROL			Matrix Spike		
			Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ng/ul in the extract	Spike		Detected Amount ng/ul in the extract	Spike	
				Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery
Phenol	108-95-2	5.2	ND			ND			76.13	150.00	50.75	42.25	150.00	28.17
Bis(2-chloroethyl)ether	111-44-4	6.9	ND			ND			ND			ND		
2-Chlorophenol	95-57-8	5.7	ND			ND			124.32	150.00	82.88	155.86	150.00	103.91
1,3-Dichlorobenzene	541-73-1	8.3	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	6.1	ND			ND			54.22	100.00	54.22	69.80	100.00	69.80
Benzyl Alcohol	100-51-6	14.8	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	6.0	ND			ND			ND			ND		
2-Methylphenol	95-48-7	5.6	ND			ND			ND			ND		
Bis(2-chloroisopropyl)ether	108-60-1	8.8	ND			ND			ND			ND		
4-Methylphenol	106-44-5	8.7	ND			ND			ND			ND		
Hexachloroethane	67-72-1	8.0	ND			ND			ND			ND		
N-Nitroso-di-N-propylamine	621-64-7	9.7	ND			ND			76.46	100.00	76.46	88.35	100.00	100.00
Nitrobenzene	98-95-3	8.2	ND			ND			ND			ND		
Isophorone	78-59-1	9.2	ND			ND			ND			ND		
2,4-Dimethylphenol	105-67-9	6.0	ND			ND			ND			ND		
2-Nitrophenol	88-75-5	9.1	ND			ND			ND			ND		
Benzoic Acid	65-85-0	22.3	ND			ND			ND			ND		
Bis(2-chloroethoxy)methane	111-91-1	8.8	ND			ND			ND			ND		
2,4-Dichlorophenol	120-83-2	5.2	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	9.4	ND			ND			61.87	100.00	61.87	75.01	100.00	75.01
Naphthalene	91-20-3	8.5	ND			ND			ND			ND		
4-Chloroaniline	106-47-8	8.5	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	9.4	ND			ND			ND			ND		
4-Chloro-3-methylphenol	59-50-7	7.7	ND			ND			131.76	100.00	131.76	134.86	150.00	89.91
2-Methylnaphthalene	91-57-6	7.5	ND			ND			ND			ND		
Hexachlorocyclopentadiene	77-47-4	8.6	ND			ND			ND			ND		
2,4,6-Trichlorophenol	88-06-2	9.1	ND			ND			ND			ND		
2,4,5-Trichlorophenol	95-95-4	7.1	ND			ND			ND			ND		
2-Chloronaphthalene	91-58-7	5.7	ND			ND			ND			ND		
2-Nitroaniline	88-74-4	12.0	ND			ND			ND			ND		
Dimethylphthalate	131-11-3	8.2	ND			ND			ND			ND		
Acenaphthylene	208-96-8	9.0	ND			ND			ND			ND		
2,6-Dinitrotoluene	606-20-2	9.2	ND			ND			ND			ND		
3-Nitroaniline	99-09-2	16.0	ND			ND			ND			ND		
Acenaphthene	83-32-9	8.3	ND			ND			84.79	100.00	84.79	92.86	100.00	92.86
2,4-Dinitrophenol	51-28-5	14.2	ND			ND			35.61	150.00	23.74	97.42	150.00	64.95
4-Nitrophenol	100-02-7	8.6	ND			ND			35.61	150.00	23.74	20.32	150.00	13.55
Dibenzofuran	132-64-9	8.4	ND			ND			ND			ND		
2,4-Dinitrotoluene	121-14-2	8.3	ND			ND			ND			ND		
Diethylphthalate	84-66-2	9.9	ND			ND			ND			ND		
Fluorene	86-73-7	9.8	ND			ND			ND			ND		
4-Chlorophenyl-phenylether	7005-72-3	8.3	ND			ND			ND			ND		
4-Nitroaniline	100-01-6	8.7	ND			ND			ND			ND		
4,6-Dinitro-2-methylphenol	534-52-1	12.2	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: **HERCULES**
Location: **MW10**
File #: **BT80867**

	Date	Time	
Collection:	12/4/02	16:40	MGJ
Extraction:	12/10/02	8:00	WTD
Analysis:	12/10/02	22:43	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80867 Detected Amount ug/L (ppb)	BT80867 Spike Amount ug	BT80867 Spike % Recovery	Method Blank Detected Amount ug/L (ppb)	Method Blank Spike Amount ug	Method Blank Spike % Recovery	LAB CONTROL Detected Amount ng/ul in the extract	LAB CONTROL Spike Amount ug	LAB CONTROL Spike % Recovery	Matrix Spike Detected Amount ng/ul in the extract	Matrix Spike Spike Amount ug	Matrix Spike Spike % Recovery
N-Nitrosodiphenylamine	86-30-6	7.5	ND			ND			ND			ND		
4-Bromophenyl-phenylether	101-55-3	7.0	ND			ND			ND			ND		
Hexachlorobenzene	118-74-1	8.0	ND			ND			ND			ND		
Pentachlorophenol	87-86-5	12.5	ND			ND			142.77	150.00	95.18	104.13	150.00	69.42
Phenanthrene	85-01-8	7.1	ND			ND			ND			ND		
Anthracene	120-12-7	8.0	ND			ND			ND			ND		
Di-n-butylphthalate	84-74-2	7.8	ND			ND			ND			ND		
Fluoranthene	206-44-0	5.7	ND			ND			ND			ND		
Pyrene	129-00-0	7.9	ND			ND			ND			ND		
Butylbenzylphthalate	85-68-7	9.9	ND			ND			ND			ND		
Benzo(a)anthracene	56-55-3	7.7	ND			ND			ND			ND		
3,3'-Dichlorobenzidiene	91-94-1	16.5	ND			ND			ND			ND		
Chrysene	218-01-9	7.8	ND			ND			ND			ND		
Bis(2-ethylhexyl)phthalate	117-81-7	9.1	ND			ND			ND			ND		
Di-n-octylphthalate	117-84-0	9.4	ND			ND			ND			ND		
Benzo(b)fluoranthene	205-99-2	6.8	ND			ND			ND			ND		
Benzo(k)fluoranthene	207-08-9	4.9	ND			ND			ND			ND		
Benzo(a)pyrene	50-32-8	5.9	ND			ND			ND			ND		
Indeno(1,2,3-c,d)pyrene	193-39-5	7.8	ND			ND			ND			ND		
Dibenzo(a,h)anthracene	53-70-3	9.0	ND			ND			ND			ND		
Benzo(g,h,i)perylene	191-24-2	10.0	ND			ND			ND			ND		
Azobenzene	103-33-3	9.5	ND			ND			ND			ND		
Benzidine	92-87-5	6.6	ND			ND			ND			ND		
N-Nitrosodimethylamine	62-75-9	8.2	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
2-Fluorophenol			93.94	200.00	46.97	116.04	200.00	58.02	108.06	200.00	54.03	65.92	200.00	32.96
Phenol-d5			62.37	200.00	31.19	89.38	200.00	44.69	85.93	200.00	42.97	56.99	200.00	28.50
Nitrobenzene-d5			66.59	100.00	66.59	77.13	100.00	77.13	68.48	100.00	68.48	64.83	100.00	64.83
2-Fluorobiphenyl			78.69	100.00	78.69	95.45	100.00	95.45	85.07	100.00	85.07	61.13	100.00	61.13
2,4,6-Tribromophenol			189.2	200.00	94.59	209.08	200.00	104.54	207.66	200.00	103.83	165.04	200.00	82.52
Terphenyl-d14			91.33	100.00	91.33	89.62	100.00	89.62	88.87	100.00	88.87	84.27	100.00	84.27

Certified by:

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Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: HERCULES
Location: MW7
File #: BT80868

	Date	Time	Analyst
Collected:	12/4/02	16:20	MGJ
Extracted:	12/10/02	8:00	WTD
Analyzed:	12/10/02	23:42	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80868 Detected Amount ug/L (ppb)	BT80868 Spike Amount ug	BT80868 Spike % Recovery	BLANK Detected Amount ug/L (ppb)	BLANK Spike Amount ug	BLANK Spike % Recovery	LAB CONTROL Detected Amount ng/ul in the extract	LAB CONTROL Spike Amount ug	LAB CONTROL Spike % Recovery	Matrix Spike Detected Amount ng/ul in the extract	Matrix Spike Spike Amount ug	Matrix Spike Spike % Recovery
Phenol	108-95-2	5.2	ND			ND			76.13	150.00	50.75	42.25	150.00	28.17
Bis(2-chloroethyl)ether	111-44-4	6.9	ND			ND			ND			ND		
2-Chlorophenol	95-57-8	5.7	ND			ND			124.32	150.00	82.88	155.86	150.00	103.91
1,3-Dichlorobenzene	541-73-1	8.3	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	6.1	ND			ND			54.22	100.00	54.22	69.80	100.00	69.80
Benzyl Alcohol	100-51-6	14.8	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	6.0	ND			ND			ND			ND		
2-Methylphenol	95-48-7	5.6	ND			ND			ND			ND		
Bis(2-chloroisopropyl)ether	108-60-1	8.8	ND			ND			ND			ND		
4-Methylphenol	106-44-5	8.7	ND			ND			ND			ND		
Hexachloroethane	67-72-1	8.0	ND			ND			ND			ND		
N-Nitroso-di-N-propylamine	621-64-7	9.7	ND			ND			76.46	100.00	76.46	88.35	100.00	100.00
Nitrobenzene	98-95-3	8.2	ND			ND			ND			ND		
Isophorone	78-59-1	9.2	ND			ND			ND			ND		
2,4-Dimethylphenol	105-67-9	6.0	ND			ND			ND			ND		
2-Nitrophenol	88-75-5	9.1	ND			ND			ND			ND		
Benzoic Acid	65-85-0	22.3	ND			ND			ND			ND		
Bis(2-chloroethoxy)methane	111-91-1	8.8	ND			ND			ND			ND		
2,4-Dichlorophenol	120-83-2	5.2	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	9.4	ND			ND			61.87	100.00	61.87	75.01	100.00	75.01
Naphthalene	91-20-3	8.5	ND			ND			ND			ND		
4-Chloroaniline	106-47-8	8.5	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	9.4	ND			ND			ND			ND		
4-Chloro-3-methylphenol	59-50-7	7.7	ND			ND			131.76	100.00	131.76	134.86	150.00	89.91
2-Methylnaphthalene	91-57-6	7.5	ND			ND			ND			ND		
Hexachlorocyclopentadiene	77-47-4	8.6	ND			ND			ND			ND		
2,4,6-Trichlorophenol	88-06-2	9.1	ND			ND			ND			ND		
2,4,5-Trichlorophenol	95-95-4	7.1	ND			ND			ND			ND		
2-Chloronaphthalene	91-58-7	5.7	ND			ND			ND			ND		
2-Nitroaniline	88-74-4	12.0	ND			ND			ND			ND		
Dimethylphthalate	131-11-3	8.2	ND			ND			ND			ND		
Acenaphthylene	208-96-8	9.0	ND			ND			ND			ND		
2,6-Dinitrotoluene	606-20-2	9.2	ND			ND			ND			ND		
3-Nitroaniline	99-09-2	16.0	ND			ND			ND			ND		
Acenaphthene	83-32-9	8.3	ND			ND			84.79	100.00	84.79	92.86	100.00	92.86
2,4-Dinitrophenol	51-28-5	14.2	ND			ND			35.61	150.00	23.74	97.42	150.00	64.95
4-Nitrophenol	100-02-7	8.6	ND			ND			35.61	150.00	23.74	20.32	150.00	13.55
Dibenzofuran	132-64-9	8.4	ND			ND			ND			ND		
2,4-Dinitrotoluene	121-14-2	8.3	ND			ND			ND			ND		
Diethylphthalate	84-66-2	9.9	ND			ND			ND			ND		
Fluorene	86-73-7	9.8	ND			ND			ND			ND		
4-Chlorophenyl-phenylether	7005-72-3	8.3	ND			ND			ND			ND		
4-Nitroaniline	100-01-6	8.7	ND			ND			ND			ND		
4,6-Dinitro-2-methylphenol	534-52-1	12.2	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: **HERCULES**
Location: **MW7**
File #: **BT80868**

	Date	Time	Analyst
Collection:	12/4/02	16:20	MGJ
Extraction:	12/10/02	8:00	WTD
Analysis:	12/10/02	23:42	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80868 Detected Amount ug/L (ppb)	BT80868 Spike Amount ug	BT80868 Spike % Recovery	Method Blank Detected Amount ug/L (ppb)	Method Blank Spike Amount ug	Method Blank Spike % Recovery	LAB CONTROL Detected Amount ng/ul in the extract	LAB CONTROL Spike Amount ug	LAB CONTROL Spike % Recovery	Matrix Spike Detected Amount ng/ul in the extract	Matrix Spike Amount ug	Matrix Spike % Recovery
N-Nitrosodiphenylamine	86-30-6	7.5	ND			ND			ND			ND		
4-Bromophenyl-phenylether	101-55-3	7.0	ND			ND			ND			ND		
Hexachlorobenzene	118-74-1	8.0	ND			ND			ND			ND		
Pentachlorophenol	87-86-5	12.5	ND			ND			142.77	150.00	95.18	104.13	150.00	69.42
Phenanthrene	85-01-8	7.1	ND			ND			ND			ND		
Anthracene	120-12-7	8.0	ND			ND			ND			ND		
Di-n-butylphthalate	84-74-2	7.8	ND			ND			ND			ND		
Fluoranthene	206-44-0	5.7	ND			ND			ND			ND		
Pyrene	129-00-0	7.9	ND			ND			ND			ND		
Butylbenzylphthalate	85-68-7	9.9	ND			ND			ND			ND		
Benzo(a)anthracene	56-55-3	7.7	ND			ND			ND			ND		
3,3'-Dichlorobenzidiene	91-94-1	16.5	ND			ND			ND			ND		
Chrysene	218-01-9	7.8	ND			ND			ND			ND		
Bis(2-ethylhexyl)phthalate	117-81-7	9.1	ND			ND			ND			ND		
Di-n-octylphthalate	117-84-0	9.4	ND			ND			ND			ND		
Benzo(b)fluoranthene	205-99-2	6.8	ND			ND			ND			ND		
Benzo(k)fluoranthene	207-08-9	4.9	ND			ND			ND			ND		
Benzo(a)pyrene	50-32-8	5.9	ND			ND			ND			ND		
Indeno(1,2,3-c,d)pyrene	193-39-5	7.8	ND			ND			ND			ND		
Dibenzo(a,h)anthracene	53-70-3	9.0	ND			ND			ND			ND		
Benzo(g,h,i)perylene	191-24-2	10.0	ND			ND			ND			ND		
Azobenzene	103-33-3	9.5	ND			ND			ND			ND		
Benzidine	92-87-5	6.6	ND			ND			ND			ND		
N-Nitrosodimethylamine	62-75-9	8.2	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
2-Fluorophenol			99.28	200.00	49.64	116.04	200.00	58.02	108.06	200.00	54.03	114.89	200.00	57.45
Phenol-d5			71.03	200.00	35.52	89.38	200.00	44.69	85.93	200.00	42.97	30.27	200.00	15.14
Nitrobenzene-d5			66.59	100.00	66.59	77.13	100.00	77.13	68.48	100.00	68.48	113.63	100.00	113.63
2-Fluorobiphenyl			82.64	100.00	82.64	95.45	100.00	95.45	85.07	100.00	85.07	93.90	100.00	93.90
2,4,6-Tribromophenol			196.1	200.00	98.03	209.08	200.00	104.54	207.66	200.00	103.83	181.50	200.00	90.75
Terphenyl-d14			89.57	100.00	89.57	89.62	100.00	89.62	88.87	100.00	88.87	100.21	100.00	100.21

Certified by:

Micheal S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: HERCULES
Location: MW9
File #: BT80870

	Date	Time	Analyst
Collected:	12/5/02	10:15	MGJ
Extracted:	12/10/02	8:00	WTD
Analyzed:	12/11/02	0:41	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80870			BLANK			LAB CONTROL			Matrix Spike		
			Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ng/ul in the extract	Spike		Detected Amount ng/ul in the extract	Spike	
				Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery
Phenol	108-95-2	5.2	ND			ND			76.13	150.00	50.75	42.25	150.00	28.17
Bis(2-chloroethyl)ether	111-44-4	6.9	ND			ND			ND			ND		
2-Chlorophenol	95-57-8	5.7	ND			ND			124.32	150.00	82.88	155.86	150.00	103.91
1,3-Dichlorobenzene	541-73-1	8.3	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	6.1	ND			ND			54.22	100.00	54.22	69.80	100.00	69.80
Benzyl Alcohol	100-51-6	14.8	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	6.0	ND			ND			ND			ND		
2-Methylphenol	95-48-7	5.6	ND			ND			ND			ND		
Bis(2-chloroisopropyl)ether	108-60-1	8.8	ND			ND			ND			ND		
4-Methylphenol	106-44-5	8.7	ND			ND			ND			ND		
Hexachloroethane	67-72-1	8.0	ND			ND			ND			ND		
N-Nitroso-di-N-propylamine	621-64-7	9.7	ND			ND			76.46	100.00	76.46	88.35	100.00	100.00
Nitrobenzene	98-95-3	8.2	ND			ND			ND			ND		
Isophorone	78-59-1	9.2	ND			ND			ND			ND		
2,4-Dimethylphenol	105-67-9	6.0	ND			ND			ND			ND		
2-Nitrophenol	88-75-5	9.1	ND			ND			ND			ND		
Benzoic Acid	65-85-0	22.3	ND			ND			ND			ND		
Bis(2-chloroethoxy)methane	111-91-1	8.8	ND			ND			ND			ND		
2,4-Dichlorophenol	120-83-2	5.2	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	9.4	ND			ND			61.87	100.00	61.87	75.01	100.00	75.01
Naphthalene	91-20-3	8.5	ND			ND			ND			ND		
4-Chloroaniline	106-47-8	8.5	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	9.4	ND			ND			ND			ND		
4-Chloro-3-methylphenol	59-50-7	7.7	ND			ND			131.76	100.00	131.76	128.47	150.00	85.65
2-Methylnaphthalene	91-57-6	7.5	ND			ND			ND			ND		
Hexachlorocyclopentadiene	77-47-4	8.6	ND			ND			ND			ND		
2,4,6-Trichlorophenol	88-06-2	9.1	ND			ND			ND			ND		
2,4,5-Trichlorophenol	95-95-4	7.1	ND			ND			ND			ND		
2-Chloronaphthalene	91-58-7	5.7	ND			ND			ND			ND		
2-Nitroaniline	88-74-4	12.0	ND			ND			ND			ND		
Dimethylphthalate	131-11-3	8.2	ND			ND			ND			ND		
Acenaphthylene	208-96-8	9.0	ND			ND			ND			ND		
2,6-Dinitrotoluene	606-20-2	9.2	ND			ND			ND			ND		
3-Nitroaniline	99-09-2	16.0	ND			ND			ND			ND		
Acenaphthene	83-32-9	8.3	ND			ND			84.79	100.00	84.79	92.86	100.00	92.86
2,4-Dinitrophenol	51-28-5	14.2	ND			ND			35.61	150.00	23.74	97.42	150.00	64.95
4-Nitrophenol	100-02-7	8.6	ND			ND			35.61	150.00	23.74	20.32	150.00	13.55
Dibenzofuran	132-64-9	8.4	ND			ND			ND			ND		
2,4-Dinitrotoluene	121-14-2	8.3	ND			ND			ND			ND		
Diethylphthalate	84-66-2	9.9	ND			ND			ND			ND		
Fluorene	86-73-7	9.8	ND			ND			ND			ND		
4-Chlorophenyl-phenylether	7005-72-3	8.3	ND			ND			ND			ND		
4-Nitroaniline	100-01-6	8.7	ND			ND			ND			ND		
4,6-Dinitro-2-methylphenol	534-52-1	12.2	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: **HERCULES**
Location: **MW9**
File #: **BT80870**

	Date	Time	Analyst
Collection:	12/5/02	10:15	MGJ
Extraction:	12/10/02	8:00	WTD
Analysis:	12/11/02	0:41	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80870 Detected Amount ug/L (ppb)	BT80870 Spike Amount ug	BT80870 Spike % Recovery	Method Blank Detected Amount ug/L (ppb)	Method Blank Spike Amount ug	Method Blank Spike % Recovery	LAB CONTROL Detected Amount ng/ul in the extract	LAB CONTROL Spike Amount ug	LAB CONTROL Spike % Recovery	Matrix Spike Detected Amount ng/ul in the extract	Matrix Spike Spike Amount ug	Matrix Spike Spike % Recovery
N-Nitrosodiphenylamine	86-30-6	7.5	ND			ND			ND			ND		
4-Bromophenyl-phenylether	101-55-3	7.0	ND			ND			ND			ND		
Hexachlorobenzene	118-74-1	8.0	ND			ND			ND			ND		
Pentachlorophenol	87-86-5	12.5	ND			ND			142.77	150.00	95.18	104.13	150.00	69.42
Phenanthrene	85-01-8	7.1	ND			ND			ND			ND		
Anthracene	120-12-7	8.0	ND			ND			ND			ND		
Di-n-butylphthalate	84-74-2	7.8	ND			ND			ND			ND		
Fluoranthene	206-44-0	5.7	ND			ND			ND			ND		
Pyrene	129-00-0	7.9	ND			ND			ND			ND		
Butylbenzylphthalate	85-68-7	9.9	ND			ND			ND			ND		
Benzo(a)anthracene	56-55-3	7.7	ND			ND			ND			ND		
3,3'-Dichlorobenzidiene	91-94-1	16.5	ND			ND			ND			ND		
Chrysene	218-01-9	7.8	ND			ND			ND			ND		
Bis(2-ethylhexyl)phthalate	117-81-7	9.1	ND			ND			ND			ND		
Di-n-octylphthalate	117-84-0	9.4	ND			ND			ND			ND		
Benzo(b)fluoranthene	205-99-2	6.8	ND			ND			ND			ND		
Benzo(k)fluoranthene	207-08-9	4.9	ND			ND			ND			ND		
Benzo(a)pyrene	50-32-8	5.9	ND			ND			ND			ND		
Indeno(1,2,3-c,d)pyrene	193-39-5	7.8	ND			ND			ND			ND		
Dibenzo(a,h)anthracene	53-70-3	9.0	ND			ND			ND			ND		
Benzo(g,h,I)perylene	191-24-2	10.0	ND			ND			ND			ND		
Azobenzene	103-33-3	9.5	ND			ND			ND			ND		
Benzidine	92-87-5	6.6	ND			ND			ND			ND		
N-Nitrosodimethylamine	62-75-9	8.2	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
2-Fluorophenol			111.30	200.00	55.65	116.04	200.00	58.02	108.06	200.00	54.03	114.80	200.00	57.40
Phenol-d5			55.39	200.00	27.70	89.38	200.00	44.69	85.93	200.00	42.97	30.27	200.00	15.14
Nitrobenzene-d5			77.64	100.00	77.64	77.13	100.00	77.13	68.48	100.00	68.48	113.63	100.00	113.63
2-Fluorobiphenyl			89.35	100.00	89.35	95.45	100.00	95.45	85.07	100.00	85.07	93.90	100.00	93.90
2,4,6-Tribromophenol			199.3	200.00	99.64	209.08	200.00	104.54	207.66	200.00	103.83	181.50	200.00	90.75
Terphenyl-d14			101.83	100.00	101.83	89.62	100.00	89.62	88.87	100.00	88.87	100.21	100.00	100.21

Certified by: Micheal S. Bonner, Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: HERCULES
Location: MW8
File #: BT80874

	Date	Time	Analyst
Collected:	12/5/02	16:10	MGJ
Extracted:	12/10/02	8:00	WTD
Analyzed:	12/11/02	1:55	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80874			BLANK			LAB CONTROL			Matrix Spike		
			Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ng/ul in the extract	Spike		Detected Amount ng/ul in the extract	Spike	
				Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery
Phenol	108-95-2	5.2	ND			ND			76.13	150.00	50.75	42.25	150.00	28.17
Bis(2-chloroethyl)ether	111-44-4	6.9	ND			ND			ND			ND		
2-Chlorophenol	95-57-8	5.7	ND			ND			124.32	150.00	82.88	155.86	150.00	103.91
1,3-Dichlorobenzene	541-73-1	8.3	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	6.1	ND			ND			54.22	100.00	54.22	69.80	100.00	69.80
Benzyl Alcohol	100-51-6	14.8	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	6.0	ND			ND			ND			ND		
2-Methylphenol	95-48-7	5.6	ND			ND			ND			ND		
Bis(2-chloroisopropyl)ether	108-60-1	8.8	ND			ND			ND			ND		
4-Methylphenol	106-44-5	8.7	13.16			ND			ND			ND		
Hexachloroethane	67-72-1	8.0	ND			ND			ND			ND		
N-Nitroso-di-N-propylamine	621-64-7	9.7	ND			ND			76.46	100.00	76.46	88.35	100.00	100.00
Nitrobenzene	98-95-3	8.2	ND			ND			ND			ND		
Isophorone	78-59-1	9.2	ND			ND			ND			ND		
2,4-Dimethylphenol	105-67-9	6.0	ND			ND			ND			ND		
2-Nitrophenol	88-75-5	9.1	ND			ND			ND			ND		
Benzoic Acid	65-85-0	22.3	ND			ND			ND			ND		
Bis(2-chloroethoxy)methane	111-91-1	8.8	ND			ND			ND			ND		
2,4-Dichlorophenol	120-83-2	5.2	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	9.4	ND			ND			61.87	100.00	61.87	75.01	100.00	75.01
Naphthalene	91-20-3	8.5	ND			ND			ND			ND		
4-Chloroaniline	106-47-8	8.5	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	9.4	ND			ND			ND			ND		
4-Chloro-3-methylphenol	59-50-7	7.7	ND			ND			131.76	100.00	131.76	134.86	150.00	89.91
2-Methylnaphthalene	91-57-6	7.5	ND			ND			ND			ND		
Hexachlorocyclopentadiene	77-47-4	8.6	ND			ND			ND			ND		
2,4,6-Trichlorophenol	88-06-2	9.1	ND			ND			ND			ND		
2,4,5-Trichlorophenol	95-95-4	7.1	ND			ND			ND			ND		
2-Chloronaphthalene	91-58-7	5.7	ND			ND			ND			ND		
2-Nitroaniline	88-74-4	12.0	ND			ND			ND			ND		
Dimethylphthalate	131-11-3	8.2	ND			ND			ND			ND		
Acenaphthylene	208-96-8	9.0	ND			ND			ND			ND		
2,6-Dinitrotoluene	606-20-2	9.2	ND			ND			ND			ND		
3-Nitroaniline	99-09-2	16.0	ND			ND			ND			ND		
Acenaphthene	83-32-9	8.3	ND			ND			84.79	100.00	84.79	92.86	100.00	92.86
2,4-Dinitrophenol	51-28-5	14.2	ND			ND			35.61	150.00	23.74	97.42	150.00	64.95
4-Nitrophenol	100-02-7	8.6	ND			ND			35.61	150.00	23.74	20.32	150.00	13.55
Dibenzofuran	132-64-9	8.4	ND			ND			ND			ND		
2,4-Dinitrotoluene	121-14-2	8.3	ND			ND			ND			ND		
Diethylphthalate	84-66-2	9.9	ND			ND			ND			ND		
Fluorene	86-73-7	9.8	ND			ND			ND			ND		
4-Chlorophenyl-phenylether	7005-72-3	8.3	ND			ND			ND			ND		
4-Nitroaniline	100-01-6	8.7	ND			ND			ND			ND		
4,6-Dinitro-2-methylphenol	534-52-1	12.2	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: **HERCULES**
Location: **MW8**
File #: **BT80874**

	Date	Time	Analyst
Collection:	12/5/02	16:10	MGJ
Extraction:	12/10/02	8:00	WTD
Analysis:	12/11/02	1:55	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80874 Detected Amount ug/L (ppb)	BT80874 Spike Amount ug	BT80874 Spike % Recovery	Method Blank Detected Amount ug/L (ppb)	Method Blank Spike Amount ug	Method Blank Spike % Recovery	LAB CONTROL Detected Amount ng/ul in the extract	LAB CONTROL Spike Amount ug	LAB CONTROL Spike % Recovery	Matrix Spike Detected Amount ng/ul in the extract	Matrix Spike Spike Amount ug	Matrix Spike Spike % Recovery
N-Nitrosodiphenylamine	86-30-6	7.5	ND			ND			ND			ND		
4-Bromophenyl-phenylether	101-55-3	7.0	ND			ND			ND			ND		
Hexachlorobenzene	118-74-1	8.0	ND			ND			ND			ND		
Pentachlorophenol	87-86-5	12.5	ND			ND			142.77	150.00	95.18	104.13	150.00	69.42
Phenanthrene	85-01-8	7.1	ND			ND			ND			ND		
Anthracene	120-12-7	8.0	ND			ND			ND			ND		
Di-n-butylphthalate	84-74-2	7.8	ND			ND			ND			ND		
Fluoranthene	206-44-0	5.7	ND			ND			ND			ND		
Pyrene	129-00-0	7.9	ND			ND			ND			ND		
Butylbenzylphthalate	85-68-7	9.9	ND			ND			ND			ND		
Benzo(a)anthracene	56-55-3	7.7	ND			ND			ND			ND		
3,3'-Dichlorobenzidiene	91-94-1	16.5	ND			ND			ND			ND		
Chrysene	218-01-9	7.8	ND			ND			ND			ND		
Bis(2-ethylhexyl)phthalate	117-81-7	9.1	ND			ND			ND			ND		
Di-n-octylphthalate	117-84-0	9.4	ND			ND			ND			ND		
Benzo(b)fluoranthene	205-99-2	6.8	ND			ND			ND			ND		
Benzo(k)fluoranthene	207-08-9	4.9	ND			ND			ND			ND		
Benzo(a)pyrene	50-32-8	5.9	ND			ND			ND			ND		
Indeno(1,2,3-c,d)pyrene	193-39-5	7.8	ND			ND			ND			ND		
Dibenzo(a,h)anthracene	53-70-3	9.0	ND			ND			ND			ND		
Benzo(g,h,i)perylene	191-24-2	10.0	ND			ND			ND			ND		
Azobenzene	103-33-3	9.5	ND			ND			ND			ND		
Benzidine	92-87-5	6.6	ND			ND			ND			ND		
N-Nitrosodimethylamine	62-75-9	8.2	ND			ND			ND			ND		
Surrogate Compounds			Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
2-Fluorophenol			98.26	200.00	49.13	116.04	200.00	58.02	108.06	200.00	54.03	114.89	200.00	57.45
Phenol-d5			38.71	200.00	19.36	89.38	200.00	44.69	85.93	200.00	42.97	30.27	200.00	15.14
Nitrobenzene-d5			94.98	100.00	94.98	77.13	100.00	77.13	68.48	100.00	68.48	113.63	100.00	113.63
2-Fluorobiphenyl			82.13	100.00	82.13	95.45	100.00	95.45	85.07	100.00	85.07	93.90	100.00	93.90
2,4,6-Tribromophenol			196.3	200.00	98.17	209.08	200.00	104.54	207.66	200.00	103.83	181.50	200.00	90.75
Terphenyl-d14			89.33	100.00	89.33	89.62	100.00	89.62	88.87	100.00	88.87	100.21	100.00	100.21

Certified by: _____
Micheal S. Bonner,Ph. D.
Bonner Analytical Testing Company

BONNER ANALYTICAL TESTING COMPANY

QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
BASE NEUTRALS AND ACIDS - GC/MS ANALYSIS DATA

Client: HERCULES
Location: RINSATE BLANK
File #: BT80877

	Date	Time	Analyst
Collected:	12/5/02	15:25	MGJ
Extracted:	12/10/02	8:00	WTD
Analyzed:	12/11/02	4:52	WTD

Sample Type: Water
Extraction Method: 3510C
Analysis Method: 8270C

Compound Name	CAS Number	MDL ug/L (ppb)	BT80877			BLANK			LAB CONTROL			Matrix Spike		
			Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ng/ul in the extract	Spike		Detected Amount ng/ul in the extract	Spike	
				Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery		Amount ug	% Recovery
Phenol	108-95-2	5.2	ND			ND			76.13	150.00	50.75	42.25	150.00	28.17
Bis(2-chloroethyl)ether	111-44-4	6.9	ND			ND			ND			ND		
2-Chlorophenol	95-57-8	5.7	ND			ND			124.32	150.00	82.88	155.86	150.00	103.91
1,3-Dichlorobenzene	541-73-1	8.3	ND			ND			ND			ND		
1,4-Dichlorobenzene	106-46-7	6.1	ND			ND			54.22	100.00	54.22	69.80	100.00	69.80
Benzyl Alcohol	100-51-6	14.8	ND			ND			ND			ND		
1,2-Dichlorobenzene	95-50-1	6.0	ND			ND			ND			ND		
2-Methylphenol	95-48-7	5.6	ND			ND			ND			ND		
Bis(2-chloroisopropyl)ether	108-60-1	8.8	ND			ND			ND			ND		
4-Methylphenol	106-44-5	8.7	ND			ND			ND			ND		
Hexachloroethane	67-72-1	8.0	ND			ND			ND			ND		
N-Nitroso-di-N-propylamine	621-64-7	9.7	ND			ND			76.46	100.00	76.46	88.35	100.00	100.00
Nitrobenzene	98-95-3	8.2	ND			ND			ND			ND		
Isophorone	78-59-1	9.2	ND			ND			ND			ND		
2,4-Dimethylphenol	105-67-9	6.0	ND			ND			ND			ND		
2-Nitrophenol	88-75-5	9.1	ND			ND			ND			ND		
Benzoic Acid	65-85-0	22.3	ND			ND			ND			ND		
Bis(2-chloroethoxy)methane	111-91-1	8.8	ND			ND			ND			ND		
2,4-Dichlorophenol	120-83-2	5.2	ND			ND			ND			ND		
1,2,4-Trichlorobenzene	120-82-1	9.4	ND			ND			61.87	100.00	61.87	75.01	100.00	75.01
Naphthalene	91-20-3	8.5	ND			ND			ND			ND		
4-Chloroaniline	106-47-8	8.5	ND			ND			ND			ND		
Hexachlorobutadiene	87-68-3	9.4	ND			ND			ND			ND		
4-Chloro-3-methylphenol	59-50-7	7.7	ND			ND			131.76	100.00	131.76	134.86	150.00	89.91
2-Methylnaphthalene	91-57-6	7.5	ND			ND			ND			ND		
Hexachlorocyclopentadiene	77-47-4	8.6	ND			ND			ND			ND		
2,4,6-Trichlorophenol	88-06-2	9.1	ND			ND			ND			ND		
2,4,5-Trichlorophenol	95-95-4	7.1	ND			ND			ND			ND		
2-Chloronaphthalene	91-58-7	5.7	ND			ND			ND			ND		
2-Nitroaniline	88-74-4	12.0	ND			ND			ND			ND		
Dimethylphthalate	131-11-3	8.2	ND			ND			ND			ND		
Acenaphthylene	208-96-8	9.0	ND			ND			ND			ND		
2,6-Dinitrotoluene	606-20-2	9.2	ND			ND			ND			ND		
3-Nitroaniline	99-09-2	16.0	ND			ND			ND			ND		
Acenaphthene	83-32-9	8.3	ND			ND			84.79	100.00	84.79	92.86	100.00	92.86
2,4-Dinitrophenol	51-28-5	14.2	ND			ND			35.61	150.00	23.74	97.42	150.00	64.95
4-Nitrophenol	100-02-7	8.6	ND			ND			35.61	150.00	23.74	20.32	150.00	13.55
Dibenzofuran	132-64-9	8.4	ND			ND			ND			ND		
2,4-Dinitrotoluene	121-14-2	8.3	ND			ND			ND			ND		
Diethylphthalate	84-66-2	9.9	ND			ND			ND			ND		
Fluorene	86-73-7	9.8	ND			ND			ND			ND		
4-Chlorophenyl-phenylether	7005-72-3	8.3	ND			ND			ND			ND		
4-Nitroaniline	100-01-6	8.7	ND			ND			ND			ND		
4,6-Dinitro-2-methylphenol	534-52-1	12.2	ND			ND			ND			ND		

BONNER ANALYTICAL TESTING COMPANY

2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

Testing Your Work for a Safer Tomorrow

YOUR COMPANY NAME: Hercules

YOUR COMPANY ADDRESS: 613 7th St
Hattiesburg, MS 39401

NAME OF PERSON TO CONTACT: Charlie Jordan

CONTACT PERSON'S PHONE: (601) 936-4440 FAX:

CONTACT PERSON'S EMAIL:

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	Di'oxathion	Semi'-Voa	VOA					NUMBER OF CONTAINERS	PRESERVATION	File ID
1	MW-1	12/4/02	1045	Liquid	X							2		BT80863
X 2	MW-11	12/4/02	1210	Liquid	X	X	X					7		BT80864
3	MW-3	12/4/02	1500	Liquid	X							2		BT80865
4	MW-2	12/4/02	1545	Liquid	X							2		BT80866
X 5	MW-10	12/4/02	1640	Liquid	X	X	X					7		BT80867
X 6	MW-7	12/4/02	1620	Liquid	X	X	X					7		BT80868
7	Trip Blank	12/3/02	1604	Liquid			X					3		BT80869
8														BT
9														BT
10														BT

PARAMETERS FOR ANALYSIS

LABORATORY USE

Turn Around Time

Project Number: 005456

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	12-4-02	17:20	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	12/5/02	0805	

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME
					12-5-02 0805

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

BONNER ANALYTICAL TESTING COMPANY

2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Hercules

YOUR COMPANY ADDRESS: 613 7th St
Hattiesburg MS 39401

NAME OF PERSON TO CONTACT: Charlie Jordan

CONTACT PERSON'S PHONE: _____ FAX: _____

CONTACT PERSON'S EMAIL: _____

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	Dioxsthion	Semi-VOA	VOA					NUMBER OF CONTAINERS	PRESERVATION	File ID
X	1 MW-9	12/5/02	1019	Liquid	X	X	X					7		BT80670
	2 MW-4	12/5/02	1315	Liquid	X		X					5		BT80671
	3 MW-5	12/5/02	1426	Liquid	X							2		BT80672
	4 MW-6	12/5/02	1330	Liquid	X							2		BT80673
X	5 MW-8	12/5/02	~~1610~~ 1115	Liquid	X	X	X					7		BT80674 13.16
X	6 MS	12/5/02	1610	Liquid	X	X	X					7		BT80675
X	7 MSD	12/5/02	1610	Liquid	X	X	X					7		BT80676
X	8 Rinsate Blank	12/5/02	1525	Liquid	X	X	X					7		BT80677
	9 Trip Blank	12/3/02	1604	Liquid			X					3		BT80678
L	10 Dup	12/3/02	1315	Liquid	X	X*	X					~~5~~ 7		BT80679 12.76

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Charlie Jordan	05DEC02	1658	

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME
			12-6-02 0800

REMARKS: * Semi-Voa Dup collected at 1610

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

LABORATORY USE

Turn Around Time

Project Number 005456

REVISION NO 1.2
03/22/01

SAMPLE RECEIPT FORM

NO 4523

Client: Hercules

Date: 12-5-02

Project #: MWells

1) Does this project fall under NPDES, RCRA, etc.	NA	YES	NO
2) Did Cooler come with a shipping slip (airbill, FedEx, etc.)? If YES, enter carrier name and airbill number here:	NA	YES	NO
3) Are custody seals on the outside of the cooler intact?	NA	YES	NO
4) Are custody seals unbroken and intact at the date and time of arrival?	NA	YES	NO
5) Are all bottles sealed in separate plastic bags?	NA	YES	NO
6) Are samples requiring no headspace, headspace free?	NA	YES	NO
7) Are chains of custody filled out properly? (ink, signed, dates, etc.)		YES	NO
8) Are all bottle labels complete and agree with COC? (ID, time, date, preservation?)		YES	NO
9) Were all bottles received intact?		YES	NO
10) Were correct containers used for the tests indicated?		YES	NO
11) Was a sufficient aliquot of sample sent for tests indicated?		YES	NO
12) Are samples within holding times for requested analysis?		YES	NO

13) Sample Preservation?

A) If samples were collected within 4 to 6 hours prior to receipt, has chilling begun	NA	YES	NO
B) If samples were received beyond 6 hours of collection:	NA	YES	NO
1) Is there a temperature blank?	NA	YES	NO
2) If Yes, are samples received at 4°C?	NA	YES	NO
3) If No, are samples on ice?	NA	YES	NO
C) Have samples been checked for correct preservation?		YES	NO

1) If sample/s doesn't meet preservation, list deviation?

14) Describe "NO" items for the above if # 1) response is NA or YES

Is there a Corrective Action form attached?	YES	NO
Is there a Client Contact form attached:	YES	NO

Signature: [signature]

Data File : C:\HPCHEM\1\DATA\120902\MB1209.D Vial: 4
Acq On : 9 Dec 02 6:53 pm Operator: WTD
Sample : METHOD BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:44 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.35	152	769310	40.00	NG/UL	-0.02
17) Napthalene-d8	14.25	136	2839020	40.00	NG/UL	-0.03
32) Acenaphthene-d10	18.37	164	1042251	40.00	NG/UL	-0.02
53) Phenanthrene-d10	21.80	188	1315980	40.00	NG/UL	-0.02
64) Chrysene-d12	28.12	240	845790	40.00	NG/UL	-0.05
74) Perylene-d12	33.62	264	483551	40.00	NG/UL	-0.06
System Monitoring Compounds						
3) 2-Fluorophenol	8.65	112	3124446	116.04	NG/UL	-0.02
Spiked Amount 200.000	Range 21 - 100		Recovery = 58.02%			
4) Phenol-d6	10.75	99	2890858	89.38	NG/UL	-0.06
Spiked Amount 200.000	Range 10 - 94		Recovery = 44.69%			
18) Nitrobenzene-d5	12.69	82	2069382	77.13	NG/UL	-0.04
Spiked Amount 100.000	Range 35 - 114		Recovery = 77.13%			
37) 2-Fluorobiphenyl	16.83	172	2890232	95.45	NG/UL	-0.04
Spiked Amount 100.000	Range 43 - 116		Recovery = 95.45%			
52) 2,4,6-Tribromophenol	20.26	330	866006	209.08	NG/UL	-0.03
Spiked Amount 200.000	Range 10 - 123		Recovery = 104.54%			
66) Terphenyl-d14	25.63	244	1967519	89.62	NG/UL	-0.01
Spiked Amount 100.000	Range 33 - 141		Recovery = 89.62%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.00	42		N.D.	d	
5) Phenol	0.00	94		N.D.	d	
6) bis(2-Chloroethyl)ether	0.00	93		N.D.	d	
7) 2-Chlorophenol	0.00	128		N.D.	d	
8) 1,3-Dichlorobenzene	0.00	146		N.D.	d	
9) 1,4-Dichlorobenzene	0.00	146		N.D.	d	
10) 1,2-Dichlorobenzene	0.00	146		N.D.		
11) Benzyl alcohol	0.00	108		N.D.	d	
12) 2-Methylphenol	0.00	107		N.D.	d	
13) 4-Methylphenol	0.00	107		N.D.	d	
14) Bis (2-chloroisopropyl) et	0.00	45		N.D.	d	
15) N-Nitroso-di-propylamine	12.69	70	265372	14.10	NG/UL#	73
16) Hexachloroethane	0.00	117		N.D.	d	
19) Nitrobenzene	0.00	77		N.D.	d	
20) Isophorone	0.00	82		N.D.	d	

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

Data File : C:\HPCHEM\1\DATA\120902\MB1209.D Vial: 4
Acq On : 9 Dec 02 6:53 pm Operator: WTD
Sample : METHOD BLANK Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:44 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
21) 2-Nitrophenol	0.00	139		N.D.	
22) 2,4-Dimethylphenol	0.00	122		N.D. d	
23) bis(2-Chloroethoxy)methane	0.00	93		N.D.	
24) Benzoic acid	0.00	122		N.D. d	
25) 2,4-Dichlorophenol	0.00	162		N.D.	
26) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
27) Naphthalene	0.00	128		N.D. d	
28) 4-Chloroaniline	0.00	127		N.D. d	
29) Hexachlorobutadiene	0.00	225		N.D.	
30) 4-Chloro-3-methylphenol	0.00	107		N.D. d	
31) 2-Methylnaphthalene	0.00	142		N.D. d	
33) Hexachlorocyclopentadiene	0.00	237		N.D.	
34) 2,4,6-Trichlorophenol	0.00	196		N.D.	
35) 2,4,5-Trichlorophenol	0.00	196		N.D.	
36) 2-Chloronaphthalene	0.00	162		N.D. d	
38) 2-Nitroaniline	0.00	65		N.D. d	
39) 2,4-Dinitrophenol	0.00	184		N.D.	
40) 4-Nitrophenol	0.00	139		N.D. d	
41) Dimethylphthalate	0.00	163		N.D. d	
42) Acenaphthylene	0.00	152		N.D. d	
43) 3-Nitroaniline	0.00	138		N.D. d	
44) Acenaphthene	0.00	154		N.D. d	
45) Dibenzofuran	0.00	168		N.D. d	
46) 2,4-Dinitrotoluene	0.00	165		N.D. d	
47) 2,6-Dinitrotoluene	0.00	165		N.D. d	
48) Diethylphthalate	0.00	149		N.D. d	
49) 4-Chlorophenyl-phenylether	0.00	204		N.D.	
50) Fluorene	0.00	166		N.D. d	
51) 4-Nitroaniline	0.00	138		N.D.	
54) 4,6-Dinitro-2-methylphenol	0.00	198		N.D. d	
55) N-Nitrosodiphenylamine	0.00	169		N.D. d	
56) Diphenylamine	0.00	169		N.D. d	
57) 4-Bromophenyl-phenylether	0.00	248		N.D. d	
58) Hexachlorobenzene	0.00	284		N.D.	
59) Pentachlorophenol	0.00	266		N.D.	
60) Phenanthrene	0.00	178		N.D. d	
61) Anthracene	0.00	178		N.D. d	

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

Data File : C:\HPCHEM\1\DATA\120902\MB1209.D
Acq On : 9 Dec 02 6:53 pm
Sample : METHOD BLANK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:44 19102

Vial: 4
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RI

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
62) Di-n-butylphthalate	0.00	149		N.D. d	
63) Fluoranthene	0.00	202		N.D. d	
65) Pyrene	0.00	202		N.D. d	
67) Butylbenzylphthalate	0.00	149		N.D. d	
68) 3,3'-Dichlorobenzidine	0.00	252		N.D.	
69) Benzo(a)anthracene	0.00	228		N.D. d	
70) Chrysene	0.00	228		N.D. d	
71) bis(2-Ethylhexyl)phthalate	0.00	149		N.D. d	
72) Di-n-Octylphthalate	0.00	149		N.D. d	
73) Indeno(1,2,3-cd)pyrene	0.00	276		N.D.	
75) Benzo(b)fluoranthene	0.00	252		N.D.	
76) Benzo(k)fluoranthene	0.00	252		N.D.	
77) Benzo(a)pyrene	0.00	252		N.D. d	
78) Dibenz(a,h)anthracene	0.00	278		N.D.	
79) Benzo(g,h,i)perylene	0.00	276		N.D.	

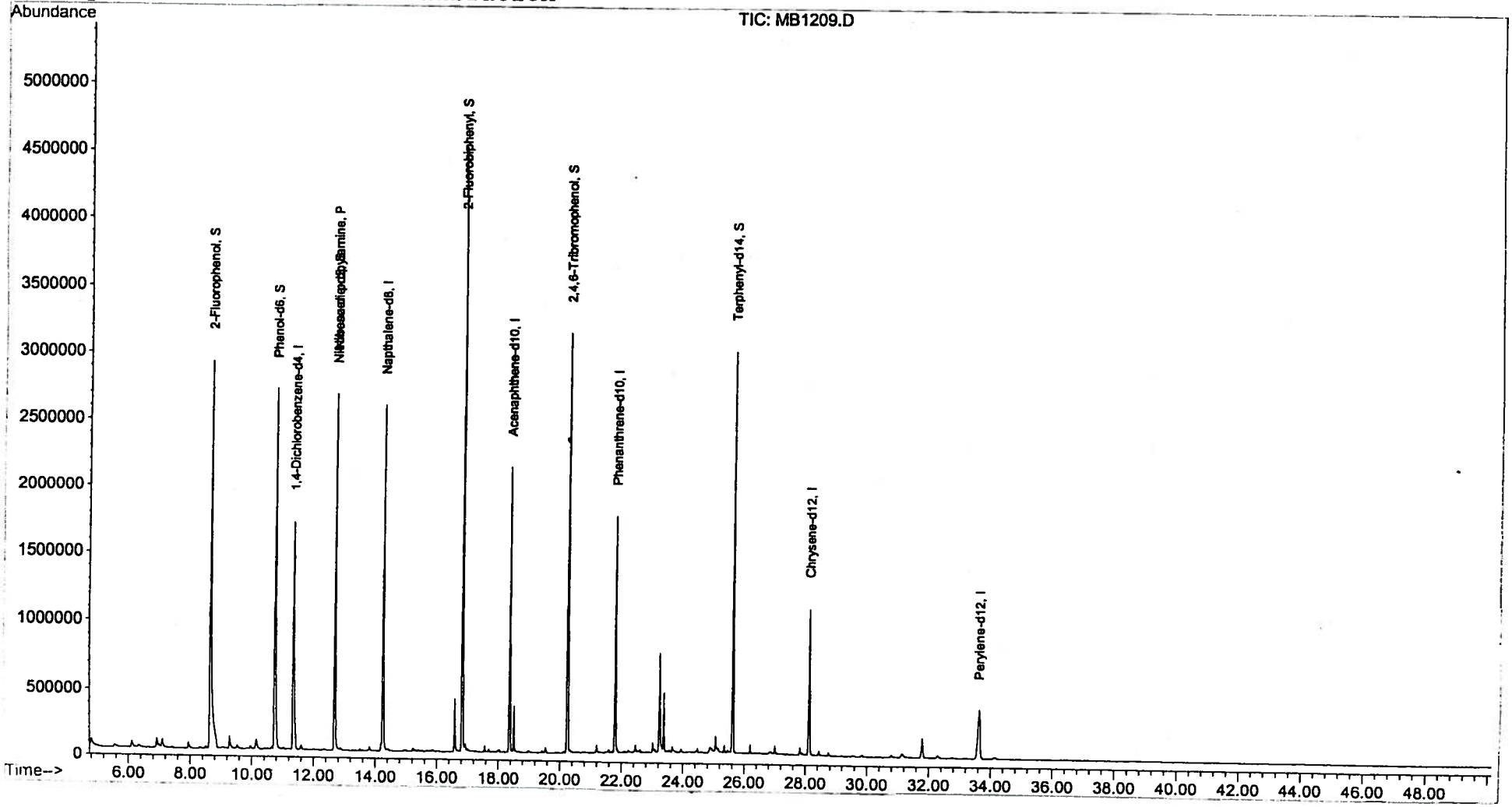
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\120902\MB1209.D
Acq On : 9 Dec 02 6:53 pm
Sample : METHOD BLANK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:44 19102

Vial: 4
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\120902\LC1209.D Vial: 5
Acq On : 9 Dec 02 8:53 pm Operator: WTD
Sample : LAB CONTROL Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:49 19102 Quant Results File: 82701202.RI

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.35	152	680094	40.00	NG/UL	-0.02
17) Napthalene-d8	14.25	136	2506835	40.00	NG/UL	-0.03
32) Acenaphthene-d10	18.37	164	993375	40.00	NG/UL	-0.02
53) Phenanthrene-d10	21.80	188	1218474	40.00	NG/UL	-0.03
64) Chrysene-d12	28.12	240	806174	40.00	NG/UL	-0.05
74) Perylene-d12	33.62	264	453633	40.00	NG/UL	-0.06
System Monitoring Compounds						
3) 2-Fluorophenol	8.65	112	2572089	108.06	NG/UL	-0.02
Spiked Amount 200.000	Range 21 - 100		Recovery = 54.03%			
4) Phenol-d6	10.76	99	2456923	85.93	NG/UL	-0.05
Spiked Amount 200.000	Range 10 - 94		Recovery = 42.97%			
18) Nitrobenzene-d5	12.69	82	1622297	68.48	NG/UL	-0.04
Spiked Amount 100.000	Range 35 - 114		Recovery = 68.48%			
37) 2-Fluorobiphenyl	16.82	172	2455164	85.07	NG/UL	-0.04
Spiked Amount 100.000	Range 43 - 116		Recovery = 85.07%			
52) 2,4,6-Tribromophenol	20.26	330	819804	207.66	NG/UL	-0.03
Spiked Amount 200.000	Range 10 - 123		Recovery = 103.83%			
66) Terphenyl-d14	25.63	244	1859633	88.87	NG/UL	-0.01
Spiked Amount 100.000	Range 33 - 141		Recovery = 88.87%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.00	42		N.D.	d	
5) Phenol	10.79	94	2203071	76.13	NG/UL	95
6) bis(2-Chloroethyl)ether	0.00	93		N.D.	d	
7) 2-Chlorophenol	10.97	128	2788991	124.32	NG/UL	95
8) 1,3-Dichlorobenzene	11.39	146	1317506	53.52	NG/UL	98
9) 1,4-Dichlorobenzene	11.39	146	1317506	54.22	NG/UL	97
10) 1,2-Dichlorobenzene	0.00	146		N.D.		
11) Benzyl alcohol	0.00	108		N.D.	d	
12) 2-Methylphenol	0.00	107		N.D.	d	
13) 4-Methylphenol	0.00	107		N.D.	d	
14) Bis (2-chloroisopropyl) et	0.00	45		N.D.	d	
15) N-Nitroso-di-propylamine	12.42	70	1271860	76.46	NG/UL	98
16) Hexachloroethane	0.00	117		N.D.	d	
19) Nitrobenzene	0.00	77		N.D.	d	
20) Isophorone	0.00	82		N.D.	d	

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

Data File : C:\HPCHEM\1\DATA\120902\LC1209.D Vial: 5
Acq On : 9 Dec 02 8:53 pm Operator: WTD
Sample : LAB CONTROL Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:49 19102 Quant Results File: 82701202.RE

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
21) 2-Nitrophenol	0.00	139		N.D. d	
22) 2,4-Dimethylphenol	0.00	122		N.D. d	
23) bis(2-Chloroethoxy)methane	0.00	93		N.D. d	
24) Benzoic acid	0.00	122		N.D. d	
25) 2,4-Dichlorophenol	0.00	162		N.D. d	
26) 1,2,4-Trichlorobenzene	14.17	180	967563	61.87 NG/UL	98
27) Naphthalene	0.00	128		N.D. d	
28) 4-Chloroaniline	0.00	127		N.D. d	
29) Hexachlorobutadiene	0.00	225		N.D.	
30) 4-Chloro-3-methylphenol	15.69	107	2295004	131.76 NG/UL	100
31) 2-Methylnaphthalene	15.69	142	2080927	54.69 NG/UL#	19
33) Hexachlorocyclopentadiene	0.00	237		N.D.	
34) 2,4,6-Trichlorophenol	0.00	196		N.D.	
35) 2,4,5-Trichlorophenol	0.00	196		N.D.	
36) 2-Chloronaphthalene	0.00	162		N.D. d	
38) 2-Nitroaniline	0.00	65		N.D. d	
39) 2,4-Dinitrophenol	0.00	184		N.D. d	
40) 4-Nitrophenol	18.85	139	686118	35.61 NG/UL#	13
41) Dimethylphthalate	0.00	163		N.D. d	
42) Acenaphthylene	0.00	152		N.D. d	
43) 3-Nitroaniline	0.00	138		N.D. d	
44) Acenaphthene	18.45	154	2173011	84.79 NG/UL	99
45) Dibenzofuran	0.00	168		N.D. d	
46) 2,4-Dinitrotoluene	18.98	165	881131	90.50 NG/UL	99
47) 2,6-Dinitrotoluene	0.00	165		N.D. d	
48) Diethylphthalate	0.00	149		N.D. d	
49) 4-Chlorophenyl-phenylether	0.00	204		N.D.	
50) Fluorene	0.00	166		N.D. d	
51) 4-Nitroaniline	0.00	138		N.D. d	
54) 4,6-Dinitro-2-methylphenol	0.00	198		N.D. d	
55) N-Nitrosodiphenylamine	0.00	169		N.D. d	
56) Diphenylamine	0.00	169		N.D. d	
57) 4-Bromophenyl-phenylether	0.00	248		N.D.	
58) Hexachlorobenzene	0.00	284		N.D.	
59) Pentachlorophenol	21.55	266	733480	172.77 NG/UL	99
60) Phenanthrene	0.00	178		N.D. d	
61) Anthracene	0.00	178		N.D. d	

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

Data File : C:\HPCHEM\1\DATA\120902\LC1209.D Vial: 5
Acq On : 9 Dec 02 8:53 pm Operator: WTD
Sample : LAB CONTROL Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:49 19102 Quant Results File: 82701202.RF

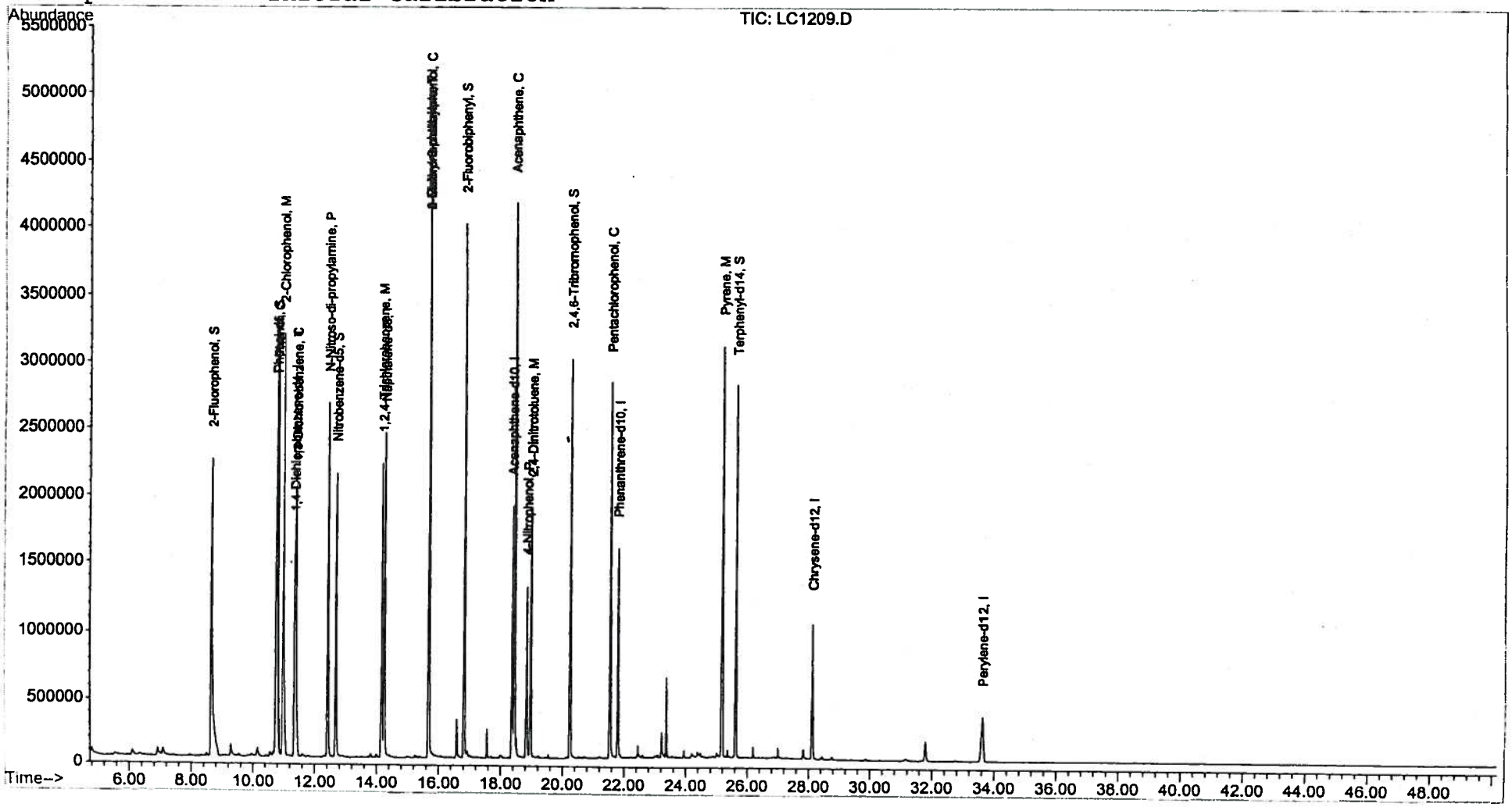
Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
62) Di-n-butylphthalate	0.00	149		N.D. d	
63) Fluoranthene	0.00	202		N.D.	
65) Pyrene	25.19	202	3102182	87.27 NG/UL	97
67) Butylbenzylphthalate	0.00	149		N.D. d	
68) 3,3'-Dichlorobenzidine	0.00	252		N.D.	
69) Benzo(a)anthracene	0.00	228		N.D. d	
70) Chrysene	0.00	228		N.D. d	
71) bis(2-Ethylhexyl)phthalate	0.00	149		N.D. d	
72) Di-n-Octylphthalate	0.00	149		N.D. d	
73) Indeno(1,2,3-cd)pyrene	0.00	276		N.D.	
75) Benzo(b)fluoranthene	0.00	252		N.D.	
76) Benzo(k)fluoranthene	0.00	252		N.D.	
77) Benzo(a)pyrene	0.00	252		N.D. d	
78) Dibenz(a,h)anthracene	0.00	278		N.D.	
79) Benzo(g,h,i)perylene	0.00	276		N.D.	

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

Data File : C:\HPCHEM\1\DATA\120902\LC1209.D Vial: 5
Acq On : 9 Dec 02 8:53 pm Operator: WTD
Sample : LAB CONTROL Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:49 19102 Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Quantitation Report (QA Reviewed)

Data File : C:\HPCHEM\1\DATA\120902\LC1209P.D Vial: 6
Acq On : 9 Dec 02 9:52 pm Operator: WTD
Sample : LAB CONTROL, TCLP Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:50 19102 Quant Results File: TCLP1127.R

Quant Method : C:\HPCHEM\1\METHODS\TCLP1127.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Wed Nov 27 09:18:15 2002
Response via : Initial Calibration
DataAcq Meth : 8270

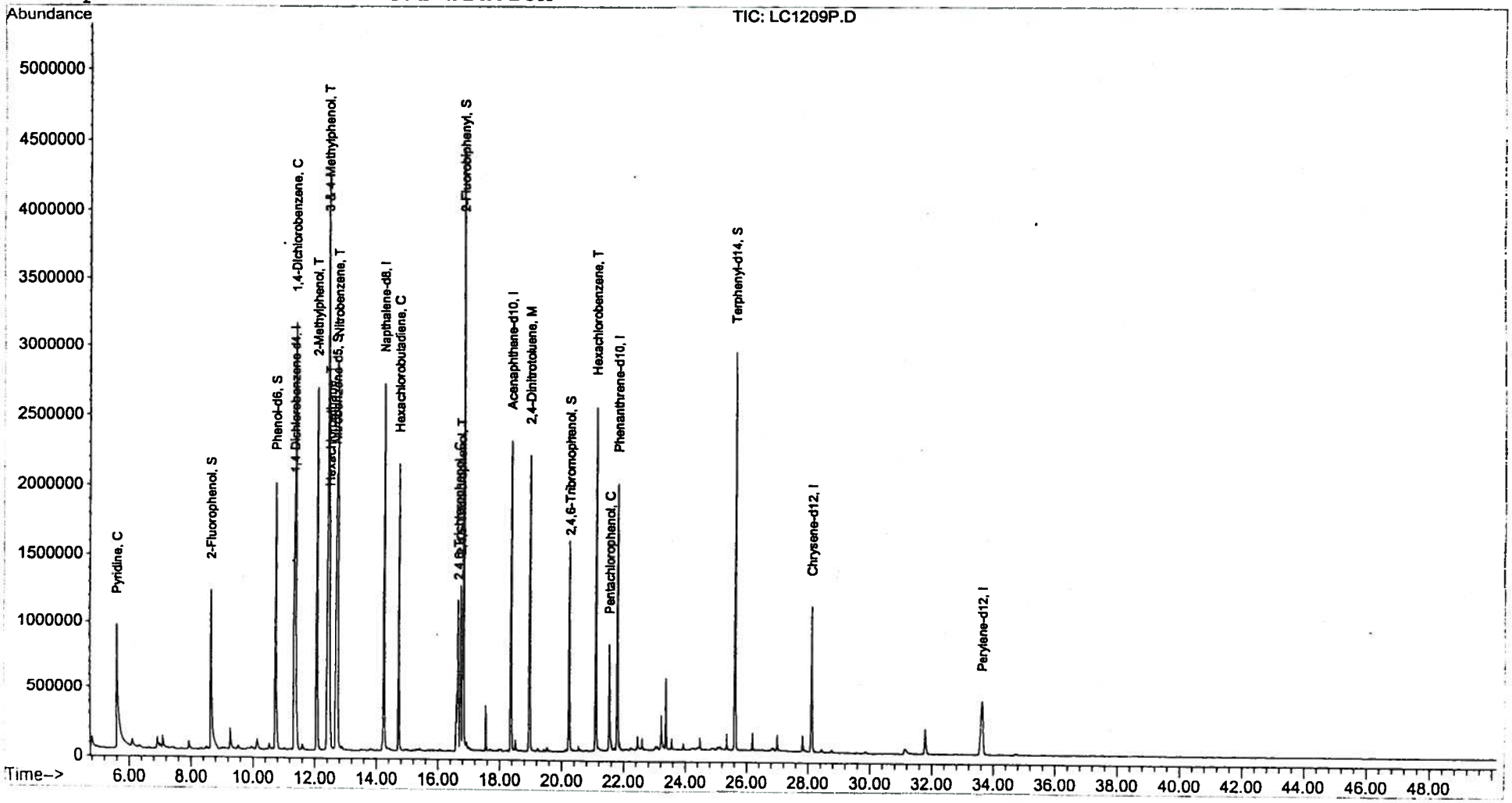
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.34	152	766640	40.00	NG/UL	0.00
9) Napthalene-d8	14.25	136	2948616	40.00	NG/UL	0.00
13) Acenaphthene-d10	18.37	164	1180158	40.00	NG/UL	0.00
19) Phenanthrene-d10	21.80	188	1485819	40.00	NG/UL	0.00
22) Chrysene-d12	28.12	240	866314	40.00	NG/UL	0.00
24) Perylene-d12	33.63	264	520066	40.00	NG/UL	0.01
System Monitoring Compounds						
2) 2-Fluorophenol	8.65	112	1167281	44.94	NG/UL	-0.02
Spiked Amount 200.000	Range 21 - 100		Recovery = 22.47%			
3) Phenol-d6	10.74	99	1978723	61.98	NG/UL	-0.03
Spiked Amount 200.000	Range 10 - 94		Recovery = 30.99%			
10) Nitrobenzene-d5	12.69	82	1803497	65.95	NG/UL	-0.01
Spiked Amount 100.000	Range 35 - 114		Recovery = 65.95%			
16) 2-Fluorobiphenyl	16.83	172	2622804	78.11	NG/UL	0.00
Spiked Amount 100.000	Range 43 - 116		Recovery = 78.11%			
18) 2,4,6-Tribromophenol	20.25	330	399013	87.38	NG/UL	0.00
Spiked Amount 200.000	Range 10 - 123		Recovery = 43.69%			
23) Terphenyl-d14	25.63	244	1967916	84.68	NG/UL	0.00
Spiked Amount 100.000	Range 33 - 141		Recovery = 84.68%			
Target Compounds						Qvalue
4) Pyridine	5.61	79	1302189	38.28	NG/UL	97
5) 1,4-Dichlorobenzene	11.38	146	1931340	69.03	NG/UL	99
6) 2-Methylphenol	12.08	107	1326709	63.14	NG/UL	96
7) 3 & 4-Methylphenol	12.44	107	3151606	119.45	NG/UL	95
8) Hexachloroethane	12.48	117	628646	75.27	NG/UL	99
11) Nitrobenzene	12.74	77	1882216	64.91	NG/UL	89
12) Hexachlorobutadiene	14.73	225	529457	51.15	NG/UL	99
14) 2,4,6-Trichlorophenol	16.66	196	343433	33.02	NG/UL	99
15) 2,4,5-Trichlorophenol	16.74	196	418780	39.29	NG/UL	97
17) 2,4-Dinitrotoluene	18.98	165	1033366	94.70	NG/UL	98
20) Hexachlorobenzene	21.11	284	758412	94.20	NG/UL	95
21) Pentachlorophenol	21.54	266	191689	45.69	NG/UL	96

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

Quantit on Report

Data File : C:\HPCHEM\1\DATA\120902\LC1209P.D Vial: 6
Acq On : 9 Dec 02 9:52 pm Operator: WTD
Sample : LAB CONTROL, TCLP Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 9:50 19102 Quant Results File: TCLP1127.RES

Method : C:\HPCHEM\1\METHODS\TCLP1127.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Wed Nov 27 09:18:15 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\IC1202A.D Vial: 2
Acq On : 10 Dec 02 3:47 pm Operator: WTD
Sample : INITIAL CALIBRATION Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:31 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.37	152	774014	40.00	NG/UL	0.00
17) Napthalene-d8	14.28	136	3043439	40.00	NG/UL	0.00
32) Acenaphthene-d10	18.39	164	1324843	40.00	NG/UL	0.00
53) Phenanthrene-d10	21.82	188	1679144	40.00	NG/UL	0.00
64) Chrysene-d12	28.16	240	990493	40.00	NG/UL	-0.02
74) Perylene-d12	33.68	264	510609	40.00	NG/UL	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	8.69	112	6929274	255.79	NG/UL	0.02
Spiked Amount 200.000	Range 21 - 100		Recovery = 127.90%#			
4) Phenol-d6	10.82	99	7936976	243.91	NG/UL	0.02
Spiked Amount 200.000	Range 10 - 94		Recovery = 121.96%#			
18) Nitrobenzene-d5	12.72	82	2791251	97.05	NG/UL	0.00
Spiked Amount 100.000	Range 35 - 114		Recovery = 97.05%			
37) 2-Fluorobiphenyl	16.86	172	3968097	103.10	NG/UL	0.00
Spiked Amount 100.000	Range 43 - 116		Recovery = 103.10%			
52) 2,4,6-Tribromophenol	20.29	330	1283656	243.80	NG/UL	0.00
Spiked Amount 200.000	Range 10 - 123		Recovery = 121.90%			
66) Terphenyl-d14	25.65	244	2619100	101.88	NG/UL	0.00
Spiked Amount 100.000	Range 33 - 141		Recovery = 101.88%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	5.71	42	894659	54.05	UG/L	97
5) Phenol	10.85	94	1831581m	55.61	NG/UL	95
6) bis(2-Chloroethyl)ether	10.92	93	1662278	56.67	NG/UL	98
7) 2-Chlorophenol	11.00	128	1286156m	50.37	NG/UL	96
8) 1,3-Dichlorobenzene	11.28	146	1455883m	51.96	NG/UL	99
9) 1,4-Dichlorobenzene	11.41	146	1570987m	56.80	NG/UL	97
10) 1,2-Dichlorobenzene	11.82	146	1416457m	55.48	NG/UL	98
11) Benzyl alcohol	12.12	108	1307493m	54.55	NG/UL	95
12) 2-Methylphenol	12.12	107	1089157m	54.45	NG/UL	93
13) 4-Methylphenol	12.45	107	1623310m	56.47	NG/UL	98
14) Bis (2-chloroisopropyl) et	12.12	45	3322181m	55.32	NG/UL	94
15) N-Nitroso-di-propylamine	12.47	70	1003884m	53.03	NG/UL	97
16) Hexachloroethane	12.49	117	580677m	56.18	NG/UL	96
19) Nitrobenzene	12.76	77	1466826	49.65	NG/UL	94
20) Isophorone	13.29	82	3031884	50.35	NG/UL	95

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

Data File : C:\HPCHEM\1\DATA\121002\IC1202A.D Vial: 2
Acq On : 10 Dec 02 3:47 pm Operator: WTD
Sample : INITIAL CALIBRATION Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:31 19102 Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) 2-Nitrophenol	13.49	139	955982m	55.39	NG/UL	93
22) 2,4-Dimethylphenol	13.64	122	1134800	54.73	NG/UL	99
23) bis(2-Chloroethoxy)methane	13.83	93	1890079	51.55	NG/UL	98
24) Benzoic acid	14.08	122	884440	52.76	NG/UL#	100
25) 2,4-Dichlorophenol	14.04	162	1046614	52.60	NG/UL	97
26) 1,2,4-Trichlorobenzene	14.19	180	1009866	53.19	NG/UL	99
27) Naphthalene	14.32	128	3939168	57.64	NG/UL	98
28) 4-Chloroaniline	14.55	127	1537529	54.34	NG/UL	97
29) Hexachlorobutadiene	14.75	225	573071	54.16	NG/UL	98
30) 4-Chloro-3-methylphenol	15.72	107	1207979	57.12	NG/UL	99
31) 2-Methylnaphthalene	15.92	142	2624437	56.82	NG/UL	100
33) Hexachlorocyclopentadiene	16.45	237	290479m	58.66	NG/UL	100
34) 2,4,6-Trichlorophenol	16.68	196	632265m	54.37	NG/UL	97
35) 2,4,5-Trichlorophenol	16.78	196	657381m	55.39	NG/UL	97
36) 2-Chloronaphthalene	17.05	162	1930697	53.64	NG/UL	95
38) 2-Nitroaniline	17.43	65	761052	49.43	NG/UL	93
39) 2,4-Dinitrophenol	18.64	184	228455	47.26	NG/UL	91
40) 4-Nitrophenol	18.84	139	1202943m	46.81	NG/UL	61
41) Dimethylphthalate	17.94	163	2243243	53.11	NG/UL	98
42) Acenaphthylene	18.03	152	3310992	53.92	NG/UL	98
43) 3-Nitroaniline	18.42	138	665185	52.03	NG/UL	94
44) Acenaphthene	18.47	154	1826746	53.44	NG/UL	97
45) Dibenzofuran	18.84	168	2505769	55.04	NG/UL	90
46) 2,4-Dinitrotoluene	19.00	165	707687	54.50	NG/UL	99
47) 2,6-Dinitrotoluene	18.10	165	568200	52.90	NG/UL	98
48) Diethylphthalate	19.59	149	2337238	56.20	NG/UL	98
49) 4-Chlorophenyl-phenylether	19.68	204	970661	58.90	NG/UL	96
50) Fluorene	19.65	166	1869939	54.73	NG/UL	98
51) 4-Nitroaniline	19.88	138	527418	47.53	NG/UL	95
54) 4,6-Dinitro-2-methylphenol	19.95	198	366618	55.52	NG/UL#	75
55) N-Nitrosodiphenylamine	20.00	169	1345211	54.81	NG/UL	97
56) Diphenylamine	20.00	169	1345211	54.82	NG/UL	97
57) 4-Bromophenyl-phenylether	20.80	248	504278	56.51	NG/UL	94
58) Hexachlorobenzene	21.13	284	368639	40.84	NG/UL	99
59) Pentachlorophenol	21.58	266	340228	58.15	NG/UL	96
60) Phenanthrene	21.88	178	2289280	55.84	NG/UL	99
61) Anthracene	21.99	178	2311956	56.40	NG/UL	99

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

Data File : C:\HPCHEM\1\DATA\121002\IC1202A.D
Acq On : 10 Dec 02 3:47 pm
Sample : INITIAL CALIBRATION
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:31 19102

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.I

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
62) Di-n-butylphthalate	23.40	149	3497404	51.93 NG/UL	99
63) Fluoranthene	24.68	202	2293633	53.23 NG/UL	99
65) Pyrene	25.19	202	2332982	53.42 NG/UL	98
67) Butylbenzylphthalate	26.90	149	1379680	56.35 NG/UL	99
68) 3,3'-Dichlorobenzidine	28.15	252	241836	55.79 NG/UL	96
69) Benzo(a)anthracene	28.10	228	1726743	57.79 NG/UL	100
70) Chrysene	28.23	228	1499477	57.95 NG/UL	98
71) bis(2-Ethylhexyl)phthalate	28.46	149	1425712m	57.66 NG/UL	97
72) Di-n-Octylphthalate	30.58	149	1735591m	50.15 NG/UL	99
73) Indeno(1,2,3-cd)pyrene	40.72	276	526395m	55.28 NG/UL	99
75) Benzo(b)fluoranthene	31.87	252	1125595	54.32 NG/UL	99
76) Benzo(k)fluoranthene	31.99	252	1054549	52.29 NG/UL	99
77) Benzo(a)pyrene	33.37	252	959302	54.76 NG/UL	99
78) Dibenz(a,h)anthracene	41.05	278	619563m	57.25 NG/UL	99
79) Benzo(g,h,i)perylene	42.88	276	527935m	45.95 NG/UL	99

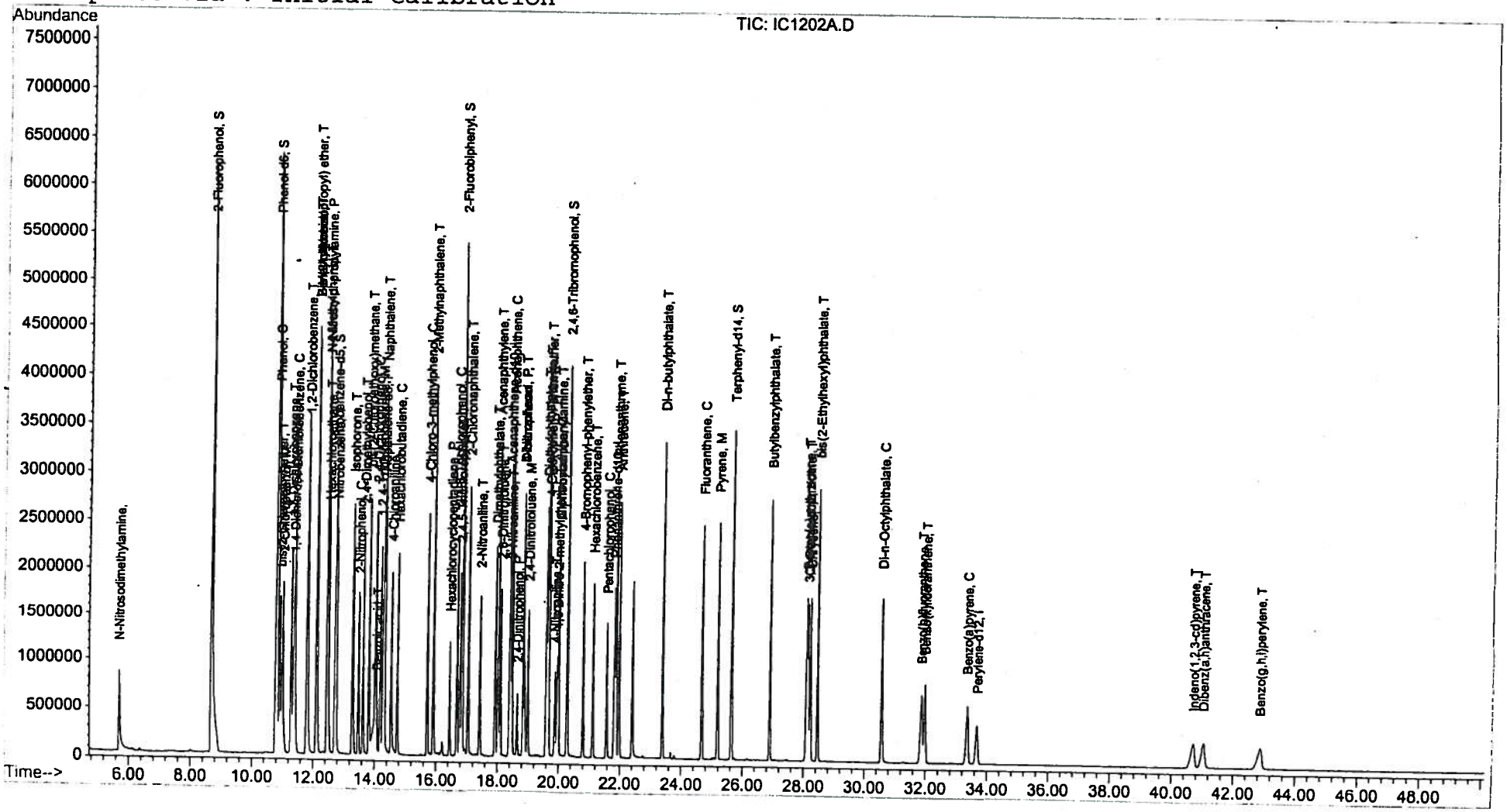
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\121002\IC1202A.D
Acq On : 10 Dec 02 3:47 pm
Sample : INITIAL CALIBRATION
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:31 19102

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.RES

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\121002\IC1202A.D Vial: 2
Acq On : 10 Dec 02 3:47 pm Operator: WTD
Sample : INITIAL CALIBRATION Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
2		N-Nitrosodimethylamine	0.855	0.925	-8.2	94	-0.01
3	S	2-Fluorophenol	1.400	1.790	-27.9	116	0.02
4	S	Phenol-d6	1.682	2.051	-21.9	110	0.02
5	C	Phenol	1.702	1.893	-11.2	101	0.03
6	T	bis(2-Chloroethyl)ether	1.516	1.718	-13.3	102	0.00
7	M	2-Chlorophenol	1.319	1.329	-0.8	90	0.02
8	T	1,3-Dichlorobenzene	1.448	1.505	-3.9	93	0.00
9	C	1,4-Dichlorobenzene	1.429	1.624	-13.6	102	0.00
10	T	1,2-Dichlorobenzene	1.319	1.464	-11.0	100	0.00
11	T	Benzyl alcohol	1.239	1.351	-9.0	98	0.03
12	T	2-Methylphenol	1.034	1.126	-8.9	98	0.03
13	T	4-Methylphenol	1.486	1.678	-12.9	102	0.00
14	T	Bis (2-chloroisopropyl) eth	3.104	3.434	-10.6	100	0.00
15	P	N-Nitroso-di-propylamine	0.978	1.038	-6.1	95	-0.02
16	T	Hexachloroethane	0.534	0.600	-12.4	101	0.00
17	I	Napthalene-d8	1.000	1.000	0.0	104	0.00
18	S	Nitrobenzene-d5	0.378	0.367	2.9	102	0.00
19	T	Nitrobenzene	0.388	0.386	0.5	103	0.00
20	T	Isophorone	0.791	0.797	-0.8	104	0.00
21	C	2-Nitrophenol	0.227	0.251	-10.6	112	0.00
22	T	2,4-Dimethylphenol	0.273	0.298	-9.2	114	0.00
23	T	bis(2-Chloroethoxy)methane	0.482	0.497	-3.1	107	0.00
24	T	Benzoic acid	0.220	0.232	-5.5	105	-0.09
25	C	2,4-Dichlorophenol	0.262	0.275	-5.0	108	0.00
26	M	1,2,4-Trichlorobenzene	0.250	0.265	-6.0	108	0.00
27	T	Naphthalene	0.898	1.035	-15.3	118	0.00
28	T	4-Chloroaniline	0.372	0.404	-8.6	110	0.00
29	C	Hexachlorobutadiene	0.139	0.151	-8.6	111	0.00
30	C	4-Chloro-3-methylphenol	0.278	0.318	-14.4	115	0.03
31	T	2-Methylnaphthalene	0.607	0.690	-13.7	115	0.00
32	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00
33	P	Hexachlorocyclopentadiene	0.149	0.175	-17.4	120	0.00
34	C	2,4,6-Trichlorophenol	0.351	0.382	-8.8	112	0.00
35	T	2,4,5-Trichlorophenol	0.358	0.397	-10.9	113	0.02

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\121002\IC1202A.D
Acq On : 10 Dec 02 3:47 pm
Sample : INITIAL CALIBRATION
Misc :
MS Integration Params: RTEINT.P

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	T	2-Chloronaphthalene	1.087	1.166	-7.3	111	0.00
37	S	2-Fluorobiphenyl	1.162	1.198	-3.1	109	0.00
38	T	2-Nitroaniline	0.465	0.460	1.1	103	0.00
39	P	2,4-Dinitrophenol	0.146	0.138	5.5	101	0.00
40	P	4-Nitrophenol	0.776	0.726	6.4	96	-0.02
41	T	Dimethylphthalate	1.275	1.355	-6.3	111	0.00
42	T	Acenaphthylene	1.854	1.999	-7.8	111	0.00
43	T	3-Nitroaniline	0.386	0.402	-4.1	109	0.00
44	C	Acenaphthene	1.032	1.103	-6.9	110	0.00
45	T	Dibenzofuran	1.374	1.513	-10.1	114	0.00
46	M	2,4-Dinitrotoluene	0.392	0.427	-8.9	113	-0.02
47	T	2,6-Dinitrotoluene	0.324	0.343	-5.9	110	-0.02
48	T	Diethylphthalate	1.256	1.411	-12.3	117	-0.02
49	T	4-Chlorophenyl-phenylether	0.498	0.586	-17.7	123	0.00
50	T	Fluorene	1.031	1.129	-9.5	113	0.00
51	T	4-Nitroaniline	0.335	0.318	5.1	98	-0.05
52	S	2,4,6-Tribromophenol	0.159	0.194	-22.0	128	0.00
53	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
54	T	4,6-Dinitro-2-methylphenol	0.157	0.175	-11.5	117	-0.03
55	T	N-Nitrosodiphenylamine	0.585	0.641	-9.6	116	-0.01
56	C	Diphenylamine	0.585	0.641	-9.6	116	-0.01
57	T	4-Bromophenyl-phenylether	0.213	0.240	-12.7	116	-0.01
58	T	Hexachlorobenzene	0.215	0.176	18.1	86	-0.01
59	C	Pentachlorophenol	0.139	0.162	-16.5	118	0.00
60	T	Phenanthrene	0.977	1.091	-11.7	118	-0.01
61	T	Anthracene	0.976	1.101	-12.8	120	-0.01
62	T	Di-n-butylphthalate	1.605	1.666	-3.8	110	-0.02
63	C	Fluoranthene	1.026	1.093	-6.5	112	0.00
64	I	Chrysene-d12	1.000	1.000	0.0	115	-0.02
65	M	Pyrene	1.764	1.884	-6.8	114	-0.02
66	S	Terphenyl-d14	1.038	1.058	-1.9	111	0.00
67	T	Butylbenzylphthalate	0.989	1.114	-12.6	124	-0.01
68	T	3,3'-Dichlorobenzidine	0.175	0.195	-11.4	153	0.00
69	T	Benzo(a)anthracene	1.207	1.395	-15.6	128	-0.02
70	T	Chrysene	1.045	1.211	-15.9	130	-0.03

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\121002\IC1202A.D
Acq On : 10 Dec 02 3:47 pm
Sample : INITIAL CALIBRATION
Misc :
MS Integration Params: RTEINT.P

Vial: 2
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
71	T	bis(2-Ethylhexyl)phthalate	0.998	1.152	-15.4	134	-0.02
72	C	Di-n-Octylphthalate	1.398	1.402	-0.3	121	-0.02
73	T	Indeno(1,2,3-cd)pyrene	0.385	0.425	-10.4	148	-0.06
74	I	Perylene-d12	1.000	1.000	0.0	158	0.00
75	T	Benzo(b)fluoranthene	1.623	1.764	-8.7	159	-0.02
76	T	Benzo(k)fluoranthene	1.580	1.652	-4.6	154	-0.04
77	C	Benzo(a)pyrene	1.372	1.503	-9.5	166	-0.05
78	T	Dibenz(a,h)anthracene	0.848	0.971	-14.5	171	-0.08
79	T	Benzo(g,h,i)perylene	0.900	0.827	8.1	148	-0.10

Data File : C:\HPCHEM\1\DATA\121002\RB1210A.D
Acq On : 10 Dec 02 4:47 pm
Sample : REAGENT BLANK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:32 19102

Vial: 16
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00 NG/UL	-11.37
17) Napthalene-d8	0.00	136	0	0.00 NG/UL	-14.28
32) Acenaphthene-d10	0.00	164	0	0.00 NG/UL	-18.39
53) Phenanthrene-d10	0.00	188	0	0.00 NG/UL	-21.83
64) Chrysene-d12	0.00	240	0	0.00 NG/UL	-28.17
74) Perylene-d12	0.00	264	0	0.00 NG/UL	-33.68
System Monitoring Compounds					
3) 2-Fluorophenol	0.00	112	0	0.00 NG/UL	
Spiked Amount 200.000	Range 21 - 100		Recovery =	0.00%#	
4) Phenol-d6	0.00	99	0	0.00 NG/UL	
Spiked Amount 200.000	Range 10 - 94		Recovery =	0.00%#	
18) Nitrobenzene-d5	0.00	82	0	0.00 NG/UL	
Spiked Amount 100.000	Range 35 - 114		Recovery =	0.00%#	
37) 2-Fluorobiphenyl	0.00	172	0	0.00 NG/UL	
Spiked Amount 100.000	Range 43 - 116		Recovery =	0.00%#	
52) 2,4,6-Tribromophenol	0.00	330	0	0.00 NG/UL	
Spiked Amount 200.000	Range 10 - 123		Recovery =	0.00%#	
66) Terphenyl-d14	0.00	244	0	0.00 NG/UL	
Spiked Amount 100.000	Range 33 - 141		Recovery =	0.00%#	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.00	42	N.D. d		
5) Phenol	0.00	94	N.D. d		
6) bis(2-Chloroethyl)ether	0.00	93	N.D.		
7) 2-Chlorophenol	0.00	128	N.D.		
8) 1,3-Dichlorobenzene	0.00	146	N.D.		
9) 1,4-Dichlorobenzene	0.00	146	N.D.		
10) 1,2-Dichlorobenzene	0.00	146	N.D.		
11) Benzyl alcohol	0.00	108	N.D.		
12) 2-Methylphenol	0.00	107	N.D.		
13) 4-Methylphenol	0.00	107	N.D.		
14) Bis (2-chloroisopropyl) et	0.00	45	N.D. d		
15) N-Nitroso-di-propylamine	0.00	70	N.D.		
16) Hexachloroethane	0.00	117	N.D. d		
19) Nitrobenzene	0.00	77	N.D. d		
20) Isophorone	0.00	82	N.D.		

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

Data File : C:\HPCHEM\1\DATA\121002\RB1210A.D
Acq On : 10 Dec 02 4:47 pm
Sample : REAGENT BLANK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 12 10:32 19102

Vial: 16
Operator: WTD
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 82701202.R

Quant Method : C:\HPCHEM\1\METHODS\82701202.M (RTE Integrator)
Title : BNA 625 FIVE POINT CALIBRATION
Last Update : Mon Dec 02 11:53:03 2002
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
21) 2-Nitrophenol	0.00	139		N.D.	
22) 2,4-Dimethylphenol	0.00	122		N.D.	
23) bis(2-Chloroethoxy)methane	0.00	93		N.D.	
24) Benzoic acid	0.00	122		N.D.	
25) 2,4-Dichlorophenol	0.00	162		N.D.	
26) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
27) Naphthalene	0.00	128		N.D. d	
28) 4-Chloroaniline	0.00	127		N.D.	
29) Hexachlorobutadiene	0.00	225		N.D.	
30) 4-Chloro-3-methylphenol	0.00	107		N.D.	
31) 2-Methylnaphthalene	0.00	142		N.D. d	
33) Hexachlorocyclopentadiene	0.00	237		N.D.	
34) 2,4,6-Trichlorophenol	0.00	196		N.D.	
35) 2,4,5-Trichlorophenol	0.00	196		N.D.	
36) 2-Chloronaphthalene	0.00	162		N.D.	
38) 2-Nitroaniline	0.00	65		N.D. d	
39) 2,4-Dinitrophenol	0.00	184		N.D.	
40) 4-Nitrophenol	0.00	139		N.D.	
41) Dimethylphthalate	0.00	163		N.D.	
42) Acenaphthylene	0.00	152		N.D.	
43) 3-Nitroaniline	0.00	138		N.D.	
44) Acenaphthene	0.00	154		N.D.	
45) Dibenzofuran	0.00	168		N.D.	
46) 2,4-Dinitrotoluene	0.00	165		N.D.	
47) 2,6-Dinitrotoluene	0.00	165		N.D.	
48) Diethylphthalate	0.00	149		N.D.	
49) 4-Chlorophenyl-phenylether	0.00	204		N.D.	
50) Fluorene	0.00	166		N.D.	
51) 4-Nitroaniline	0.00	138		N.D.	
54) 4,6-Dinitro-2-methylphenol	0.00	198		N.D.	
55) N-Nitrosodiphenylamine	0.00	169		N.D. d	
56) Diphenylamine	0.00	169		N.D. d	
57) 4-Bromophenyl-phenylether	0.00	248		N.D.	
58) Hexachlorobenzene	0.00	284		N.D.	
59) Pentachlorophenol	0.00	266		N.D.	
60) Phenanthrene	0.00	178		N.D. d	
61) Anthracene	0.00	178		N.D. d	

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