A.4.3

VAN WATERS & ROGERS INC.

CLOSURE DOCUMENTATION REPORT
RCRA PART B PERMIT CONTAINER STORAGE
VAN WATERS & ROGERS INC. FACILITY
EVENDALE, OHIO

U.S. EPA I.D. # OHD 002 899 847
OHIO EPA PERMIT # 05-31-0629

VOLUME II

CLOSURE DOCUMENTATION REPORT

AUGUST 22, 1993

Prepared for: Van Waters & Rogers Inc.
600 Hunter Drive, Suite 300
Oak Brook, Illinois 60521-1926

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AMERICAN ENVIRONMENTAL NETWORK

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: TCPBAS

Initial Calibration Source: NIST,H.P.S.

Continuing Calibration Source: NIST,H.P.S.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic	2500.0	2529.73	101.2	2500.0	2546.10	101.8	2513.58	100.5	P
Barium	5000.0	4914.81	98.3	5000.0	4962.23	99.2	4912.34	98.2	P
Beryllium									
Cadmium	500.0	481.36	96.3	500.0	490.88	98.2	484.93	97.0	P
Calcium									
Chromium	2500.0	2444.08	97.8	2500.0	2502.08	100.1	2434.75	97.4	P
Cobalt									
Copper									
Iron									
Lead	2500.0	2483.34	99.3	2500.0	2544.63	101.8	2516.38	100.7	P
Magnesium									
Manganese									
Mercury	2.0	1.99	99.5	2.0	2.04	102.0	2.10	105.0	AV
Nickel									
Potassium									
Selenium	500.0	502.98	100.6	500.0	519.41	103.9	448.74	89.7	P
Silver	2500.0	2378.90	95.2	2500.0	2374.52	95.0	2322.18	92.9	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

AMERICAN ENVIRONMENTAL NETWORK

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Initial Calibration Source: NIST,H.P.S.

Continuing Calibration Source: NIST,H.P.S.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony	500.0	482.00	96.4	500.0	496.00	99.2	454.00	90.8	P
Arsenic	50.0	53.71	107.4	50.0	54.94	109.9	52.86	105.7	F
Barium									
Beryllium	250.0	259.00	103.6	250.0	257.00	102.8	249.00	99.6	P
Cadmium	250.0	253.00	101.2	250.0	250.00	100.0	276.00	110.4	P
Calcium									
Chromium	500.0	506.00	101.2	500.0	484.00	96.8	504.00	100.8	P
Cobalt									
Copper	1250.0	1263.00	101.0	1250.0	1197.00	95.8	1205.00	96.4	P
Iron									
Lead	50.0	51.93	103.9	50.0	53.09	106.2	52.63	105.3	F
Magnesium									
Manganese									
Mercury	2.0	1.99	99.5	2.0	2.04	102.0	2.10	105.0	AV
Nickel	2500.0	2750.00	110.0	2500.0	2751.00	110.0	2747.00	109.9	P
Potassium									
Selenium	25.0	25.91	103.6	25.0	26.86	107.4	26.33	105.3	F
Silver	500.0	488.00	97.6	500.0	489.00	97.8	507.00	101.4	P
Sodium									
Thallium	50.0	51.72	103.4	50.0	52.18	104.4	54.03	108.1	F
Vanadium									
Zinc	2500.0	2498.00	99.9	2500.0	2543.00	101.7	2498.00	99.9	P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

000007

AMERICAN ENVIRONMENTAL NETWORK

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Initial Calibration Source: NIST,H.P.S.

Continuing Calibration Source: NIST,H.P.S.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				50.0	49.84	99.7	50.30	100.6	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				25.0	27.18	108.7	26.86	107.4	F
Silver									
Sodium									
Thallium				50.0	51.26	102.5	51.72	103.4	F
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

000008

AMERICAN ENVIRONMENTAL NETWORK

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Initial Calibration Source: NIST,H.P.S.

Continuing Calibration Source: NIST,H.P.S.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				50.0	51.00	102.0			F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

AMERICAN ENVIRONMENTAL NETWORK

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Initial Calibration Source: NIST,H.P.S.

Continuing Calibration Source: NIST,H.P.S.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony	500.0	489.00	97.8	500.0	491.00	98.2	501.00	100.2	P
Arsenic	50.0	52.72	105.4	50.0	46.62	93.2			F
Barium									
Beryllium	250.0	248.00	99.2	250.0	254.00	101.6	236.00	94.4	P
Cadmium	250.0	236.00	94.4	250.0	247.00	98.8	228.00	91.2	P
Calcium									
Chromium	500.0	500.00	100.0	500.0	514.00	102.8	520.00	104.0	P
Cobalt									
Copper	1250.0	1257.00	100.6	1250.0	1230.00	98.4	1264.00	101.1	P
Iron									
Lead	50.0	52.56	105.1	50.0	52.56	105.1	51.38	102.8	F
Magnesium									
Manganese									
Mercury	2.0	1.80	90.0	2.0	1.91	95.5	2.12	106.0	AV
Nickel	2500.0	2479.00	99.2	2500.0	2512.00	100.5	2512.00	100.5	P
Potassium									
Selenium	25.0	26.19	104.8	25.0	24.50	98.0			F
Silver	500.0	479.00	95.8	500.0	474.00	94.8	450.00	90.0	P
Sodium									
Thallium	50.0	51.93	103.9	50.0	50.96	101.9	48.52	97.0	F
Vanadium									
Zinc	2500.0	2429.00	97.2	2500.0	2437.00	97.5	2360.00	94.4	P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

AMERICAN ENVIRONMENTAL NETWORK

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Initial Calibration Source: NIST,H.P.S.

Continuing Calibration Source: NIST,H.P.S.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony				500.0	546.00	109.2			P
Arsenic									
Barium									
Beryllium				250.0	238.00	95.2			P
Cadmium				250.0	245.00	98.0			P
Calcium									
Chromium				500.0	518.00	103.6			P
Cobalt									
Copper				1250.0	1273.00	101.8			P
Iron									
Lead				50.0	52.09	104.2	51.38	102.8	F
Magnesium									
Manganese									
Mercury				2.0	1.96	98.0			AV
Nickel				2500.0	2687.00	107.5			P
Potassium									
Selenium									
Silver				500.0	454.00	90.8			P
Sodium									
Thallium									
Vanadium									
Zinc				2500.0	2420.00	96.8			P
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

AMERICAN ENVIRONMENTAL NETWORK

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Initial Calibration Source: NIST,H.P.S.

Continuing Calibration Source: NIST,H.P.S.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				50.0	54.43	108.9	53.26	106.5	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits : Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

AMERICAN ENVIRONMENTAL NETWORK

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source: SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Found Found	%R
Aluminum								
Antimony				100.0	82.00	82.0		
Arsenic	10.0	9.63	96.3					
Barium								
Beryllium				10.0	9.00	90.0		
Cadmium				10.0	10.00	100.0		
Calcium								
Chromium				20.0	17.00	85.0		
Cobalt								
Copper				50.0	49.00	98.0		
Iron								
Lead	3.0	2.16	72.0					
Magnesium								
Manganese								
Mercury								
Nickel				100.0	50.00	50.0		
Potassium								
Selenium	5.0	5.28	105.6					
Silver				20.0	15.00	75.0		
Sodium								
Thallium	10.0	9.79	97.9					
Vanadium								
Zinc				50.0	29.00	58.0		

AMERICAN ENVIRONMENTAL NETWORK

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source: SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Found	%R
Aluminum								
Antimony				100.0	104.00	104.0		
Arsenic	10.0	10.32	103.2					
Barium								
Beryllium				10.0	9.00	90.0		
Cadmium				10.0	9.00	90.0		
Calcium								
Chromium				20.0	19.00	95.0		
Cobalt								
Copper				50.0	49.00	98.0		
Iron								
Lead	3.0	2.67	89.0					
Magnesium								
Manganese								
Mercury								
Nickel				100.0	101.00	101.0		
Potassium								
Selenium	5.0	5.32	106.4					
Silver				20.0	14.00	70.0		
Sodium								
Thallium	10.0	10.47	104.7					
Vanadium								
Zinc				50.0	42.00	84.0		

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: TCPBAS

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	500.0	U	500.0	U	500.0	U					P
Barium	100.0	U	100.0	U	100.0	U					P
Beryllium											
Cadmium	40.0	U	40.0	U	40.0	U					P
Calcium											
Chromium	100.0	U	100.0	U	100.0	U					P
Cobalt											
Copper											
Iron											
Lead	100.0	U	100.0	U	100.0	U					P
Magnesium											
Manganese											
Mercury	-0.1	B	0.1	U	-0.1	B			0.1	B	AV
Nickel											
Potassium											
Selenium	250.0	U	250.0	U	250.0	U					P
Silver	500.0	U	500.0	U	500.0	U					P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: TCPBAS

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic									500.0	U	P
Barium									100.0	U	P
Beryllium											
Cadmium									40.0	U	P
Calcium											
Chromium									100.0	U	P
Cobalt											
Copper											
Iron											
Lead									100.0	U	P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium									250.0	U	P
Silver									500.0	U	P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony	50.0	U	50.0	U	50.0	U					P
Arsenic	2.2	U	2.2	U	2.2	U					F
Barium											
Beryllium	5.0	U	5.0	U	5.0	U					P
Cadmium	2.0	U	2.0	U	2.0	U					P
Calcium											
Chromium	5.0	U	5.0	U	5.0	U					P
Cobalt											
Copper	10.0	U	10.0	U	10.0	U					P
Iron											
Lead	2.2	U	2.2	U	2.2	U	2.2	U			F
Magnesium											
Manganese											
Mercury	-0.1	B	0.1	U	-0.1	B			0.1	U	AV
Nickel	10.0	U	10.0	U	10.0	U					P
Potassium											
Selenium	3.2	U	3.2	U	3.2	U	3.2	U			F
Silver	5.0	U	5.0	U	5.0	U					P
Sodium											
Thallium	6.5	U	6.5	U	6.5	U	6.5	U			F
Vanadium											
Zinc	10.0	U	10.0	U	10.0	U					P
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic									2.2	U	F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.2	U	2.2	U			2.2	U	F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			3.2	U					3.2	U	F
Silver											
Sodium											
Thallium			6.5	U					6.5	U	F
Vanadium											
Zinc											
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	P
Arsenic	2.2	U	2.2	U							F
Barium											
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	P
Calcium											
Chromium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Cobalt											
Copper	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	P
Iron											
Lead	2.2	U	2.2	U	2.2	U	2.2	U			F
Magnesium											
Manganese											
Mercury	-0.1	B	-0.1	B	0.1	U	0.1	U			AV
Nickel	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	P
Potassium											
Selenium	3.2	U	3.2	U							F
Silver	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Sodium											
Thallium	6.5	U	6.5	U	6.5	U					F
Vanadium											
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	P
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.2	U	2.2	U	2.2	U			F
Magnesium											
Manganese											
Mercury									0.050	U	AV
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony									10.000	U	P
Arsenic											
Barium											
Beryllium									1.000	U	P
Cadmium									0.400	U	P
Calcium											
Chromium									1.000	U	P
Cobalt											
Copper									2.000	U	P
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel									2.000	U	P
Potassium											
Selenium											
Silver									1.000	U	P
Sodium											
Thallium											
Vanadium											
Zinc									2.000	U	P
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

3
BLANKS

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic									0.440	U	F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead									0.440	U	F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium									0.640	U	F
Silver											
Sodium											
Thallium									1.300	U	F
Vanadium											
Zinc											
Cyanide											

FORM III - IN

AMERICAN ENVIRONMENTAL NETWORK

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

ICP ID Number: PII ICS Source: H.P.S., SPEX

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony			12	16.0				
Arsenic								
Barium								
Beryllium		500	0	496.0	99.2			
Cadmium		1000	-4	981.0	98.1			
Calcium								
Chromium		500	2	444.0	88.8			
Cobalt								
Copper		500	9	487.0	97.4			
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel		1000	5	999.0	99.9			
Potassium								
Selenium								
Silver		1000	3	965.0	96.5			
Sodium								
Thallium								
Vanadium								
Zinc		1000	37	995.0	99.5			

FORM IV - IN

AMERICAN ENVIRONMENTAL NETWORK

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

ICP ID Number: PII ICS Source: H.P.S., SPEX

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony			-15	19.0				
Arsenic								
Barium								
Beryllium		500	0	469.0	93.8			
Cadmium		1000	5	922.0	92.2			
Calcium								
Chromium		500	1	470.0	94.0			
Cobalt								
Copper		500	6	480.0	96.0			
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel		1000	5	919.0	91.9			
Potassium								
Selenium								
Silver		1000	-7	934.0	93.4			
Sodium								
Thallium								
Vanadium								
Zinc		1000	35	979.0	97.9			

FORM IV - IN

AMERICAN ENVIRONMENTAL
NETWORK
5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

AENI

Lab Name: AMERICAN ENVIRON. NETWORK

Contract:BASC 0102 SDG No.:BAS102 Lab Sample Id:S07947S

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	2.2300		0.0500	U	2.00	111.5		AV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
THIS IS THE MATRIX SPIKE FOR MERCURY.

FORM V (PART 1) - IN

AMERICAN ENVIRONMENTAL
NETWORK
5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

P#1CONCRET

Lab Name: AMERICAN ENVIRON. NETWORK

Contract:BASC 0102 SDG No.:BAS102 Lab Sample Id:S07906S

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	45.0000		10.0000	U	100.00	45.0	N	P
Arsenic	75-125	6.8668		3.8462		8.00	37.8	N	F
Barium									NR
Beryllium	75-125	8.6000		1.0000	U	10.00	86.0		P
Cadmium	75-125	8.8000		0.4000	U	10.00	88.0		P
Calcium									NR
Chromium	75-125	21.2000		3.8000		20.00	87.0		P
Cobalt									NR
Copper	75-125	55.4000		4.0000	B	50.00	102.8		P
Iron									NR
Lead	75-125	7.8881		4.0940		4.00	94.9		F
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel	75-125	99.4000		5.0000	B	100.00	94.4		P
Potassium									NR
Selenium	75-125	4.6712		1.2800	U	2.00	233.6	N	F
Silver	75-125	8.2000		1.0000	U	10.00	82.0		P
Sodium									NR
Thallium	75-125	11.6546		1.3000	U	10.00	116.5		F
Vanadium									NR
Zinc	75-125	133.6000		13.6000		100.00	120.0		P
Cyanide									NR

Comments:
THIS IS THE MATRIX SPIKE FOR ICP AND GFAA.

AMERICAN ENVIRONMENTAL
NETWORK
5B
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

P#1CONCRET

Lab Name: AMERICAN ENVIRON. NETWORK

Contract:BASC 0102 SDG No.:BAS102 Lab Sample Id: S07906A

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		94.00		50.00	U	100.0	94.0		P
Arsenic									NR
Barium									NR
Beryllium		45.00		5.00	U	50.0	90.0		P
Cadmium		45.00		2.00	U	50.0	90.0		P
Calcium									NR
Chromium		104.00		19.00		100.0	85.0		P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver		89.00		5.00	U	100.0	89.0		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc		501.00		68.00		500.0	86.6		P
Cyanide									NR

Comments:

FORM V (PART 2) - IN

AMERICAN ENVIRONMENTAL NETWORK

7

LABORATORY CONTROL SAMPLE

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: TCPBAS

Solid LCS Source:

Aqueous LCS Source: SPEX

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	2500.0	2407.72	96.3						
Barium	5000.0	4625.32	92.5						
Beryllium									
Cadmium	500.0	481.97	96.4						
Calcium									
Chromium	2500.0	2285.92	91.4						
Cobalt									
Copper									
Iron									
Lead	2500.0	2390.56	95.6						
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	500.0	420.41	84.1						
Silver	2500.0	2248.27	89.9						
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

FORM VII - IN

AMERICAN ENVIRONMENTAL NETWORK

7

LABORATORY CONTROL SAMPLE

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Solid LCS Source: ERA LOT 215

Aqueous LCS Source: SPEX

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	2.0	2.07	103.5	13.7	19.8		7.5	21.0	144.5
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

FORM VII - IN

AMERICAN ENVIRONMENTAL NETWORK

7

LABORATORY CONTROL SAMPLE

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Solid LCS Source: ERA LOT 215

Aqueous LCS Source: SPEX

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	40.0	39.86	99.6	34.2	25.5		13.0	51.0	74.6
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	20.0	20.07	100.4	44.5	40.8		20.0	65.0	91.7
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	10.0	9.70	97.0	33.1	34.5		17.0	53.0	104.2
Silver									
Sodium									
Thallium	50.0	47.58	95.2	140.0	75.3		70.0	210.0	53.8
Vanadium									
Zinc									
Cyanide									

FORM VII - IN

AMERICAN ENVIRONMENTAL NETWORK

7

LABORATORY CONTROL SAMPLE

Lab Name: AMERICAN ENVIRON. NETWORK Contract: BASC 0102

SDG No.: BAS102

Solid LCS Source: ERA LOT 215

Aqueous LCS Source: SPEX

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony	500.0	575.00	115.0	21.3	26.6		9.0	130.0	124.9
Arsenic									
Barium									
Beryllium	50.0	47.00	94.0	58.1	60.8		35.0	87.0	104.6
Cadmium	50.0	50.00	100.0	70.3	83.2		35.0	112.0	118.3
Calcium									
Chromium	100.0	97.00	97.0	182.0	170.0		82.0	255.0	93.4
Cobalt									
Copper	250.0	248.00	99.2	92.7	95.0		46.0	139.0	102.5
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel	500.0	493.00	98.6	137.0	155.4		68.0	212.0	113.4
Potassium									
Selenium									
Silver	50.0	57.00	114.0	64.4	74.8		26.0	113.0	116.1
Sodium									
Thallium									
Vanadium									
Zinc	500.0	485.00	97.0	78.2	85.6		39.0	121.0	109.5
Cyanide									

FORM VII - IN

AMERICAN ENVIRONMENTAL
NETWORK
9
ICP SERIAL DILUTIONS

SAMPLE NO.

P#1-CONCRETE-10

Lab Name: AMERICAN ENVIRON. NETWORK

Contract:BASC 0102 SDG No.:BAS102 Lab Sample Id: S07906L

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum							
Antimony	50.00	U	250.00	U			P
Arsenic							
Barium							
Beryllium	5.00	U	25.00	U			P
Cadmium	2.00	U	10.00	U			P
Calcium							
Chromium	19.00		25.00	U	100.0		P
Cobalt							
Copper	20.00	B	50.00	U	100.0		P
Iron							
Lead							
Magnesium							
Manganese							
Mercury							
Nickel	25.00	B	50.00	U	100.0		P
Potassium							
Selenium							
Silver	5.00	U	25.00	U			P
Sodium							
Thallium							
Vanadium							
Zinc	68.00		50.00	U	100.0		P

FORM IX - IN

TABLE OF CONTENTS

I. CASE NARRATIVE

II. VOLATILES Data
- a) QC SUMMARY
  1. Surrogate Recovery (form II)
  2. MS / MSD (form III)
  3. Method Blank (form IV)
  4. GC / MS Tuning and Mass Calibration (form V)
  5. Internal Standard Area Summary (form VIII)
- b) SAMPLE DATA
  1. TCL Results
  2. Sample Raw Data
- c) STANDARDS DATA
  1. Initial Calibration (form VI)
  2. Continuing Calibration (form VII)
- d) RAW QC DATA

III. SEMIVOLATILES Data
- a) QC SUMMARY
  1. Surrogate Recovery (form II)
  2. MS / MSD Recovery (form III)
  3. Method Blank (form IV)
  4. GC / MS Tuning and Mass Calibration (form V)
  5. Internal Standard Area Summary (form VIII)
- b) SAMPLE DATA
  1. TCL Results
  2. Sample Raw Data
- c) STANDARDS DATA
  1. Initial Calibration (form VI)
  2. Continuing Calibration (form VII)
- d) RAW QC DATA

Section a).

QC SUMMARY

Surrogate Recovery (form II)
MS/MSD Recovery (form III)
Daily Blank Summary (form IV)
GC/MS Tuning and Calibration (form V)
Internal Standard Area Summary (form VIII)

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: AMER.ENV.NT Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

	EPA / CLIENT SAMPLE ID	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	0601VBLK C1	103	104	101		0
02	TRIP BLANK	102	94	99		0
03	0603VBLK C1	90	89	85		0
04	PADRINSE05 1:1	97	94	90		0
05	PADRINSE05 MS	95	90	88		0
06	PADRINSE05 MSD	98	93	91		0
07	PADWASH02 1:10	97	88	87		0
08	PADWASH02 MS	100	94	93		0
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS 2/88	LAB
S1 (TOL) = Toluene-d8	(88-110)	(89-108)
S2 (BFB) = Bromofluorobenzene	(86-115)	(89-107)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)	(84-103)

Column to be used to flag recovery values
+ Values outside of contract required QC limits
* Values outside of LAB generated QC limits
D Surrogates diluted out

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

	EPA / CLIENT SAMPLE ID	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	0617VBLK A1	99	98	96		0
02	PADRINSE05	99	101	97		0
03	PADWASH02	105	103	102		0
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS 2/88	
S1 (TOL) =	Toluene-d8	(88-110)	(89-108)
S2 (BFB) =	Bromofluorobenzene	(86-115)	(89-107)
S3 (DCE) =	1,2-Dichloroethane-d4	(76-114)	(84-103)

Column to be used to flag recovery values

+ Values outside of contract required QC limits
* Values outside of LAB generated QC limits

D Surrogates diluted out

000012

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Level: LOW

	EPA / CLIENT SAMPLE ID	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	0605HBLK C1	102	103	103		0
02	P#1CONCR.08	103	98	98		0
03	P#2CONCR.11	103	93	99		0
04	P#2CONCR11 MS	116	80	100		0
05	P#2CONCR11 MSD	116	81	100		0
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS 2/88	QC LIMITS LAB
S1 (TOL) = Toluene-d8	(81-117)	(86-117)
S2 (BFB) = Bromofluorobenzene	(74-121)	(82-118)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)	(86-109)

Column to be used to flag recovery values

+ Values outside of contract required QC limits
* Values outside of LAB generated QC limits

D Surrogates diluted out

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix Spike - EPA / CLIENT ID: PADWASH02 1:10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0.00	46.00	92	61-145
Trichloroethene	50.00	0.00	41.00	82	71-120
Benzene	50.00	0.00	43.00	85	76-127
Toluene	50.00	0.00	48.00	95	76-125
Chlorobenzene	50.00	9.30	53.00	87	75-130

* Values outside of qc limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III VOA-1 2/88 Rev.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix Spike - EPA / CLIENT ID: PADRINSE05 1:10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0.00	50.00	99	61-145
Trichloroethene	50.00	0.00	48.00	95	71-120
Benzene	50.00	0.00	48.00	95	76-127
Toluene	50.00	0.00	53.00	105	76-125
Chlorobenzene	50.00	3.90	52.00	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	54.00	108	8	14	61-145
Trichloroethene	50.00	49.00	98	3	14	71-120
Benzene	50.00	50.00	100	5	11	76-127
Toluene	50.00	56.00	112	6	13	76-125
Chlorobenzene	50.00	56.00	103	7	13	75-130

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

* Values outside of qc limits

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

COMMENTS: _____

FORM III VOA-1 2/88 Rev.

OS
OS

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

ab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix Spike - EPA / CLIENT ID: P#2CONCR.11 Level: LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0.00	51.00	101	59-172
Trichloroethene	50.00	0.00	49.00	97	62-137
Benzene	50.00	0.00	50.00	99	66-142
Toluene	50.00	2.10	64.00	122	59-139
Chlorobenzene	50.00	0.00	50.00	100	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	49.00	97	4	22	59-172
Trichloroethene	50.00	51.00	101	4	24	62-137
Benzene	50.00	51.00	102	2	21	66-142
Toluene	50.00	61.00	116	5	21	59-139
Chlorobenzene	50.00	50.00	100	0	21	60-133

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

* Values outside of qc limits

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

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >CF003 Lab Sample ID: 0601VBLK C1

Date Analyzed: 6/01/93 Time Analyzed: 10:33

Matrix: WATER Level: LOW

Instrument ID: HP5970-C

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

	LAB SAMPLE ID.	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AE#7894	TRIP BLANK	>CF012	6/01/93
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV VOA 2/88 Rev.

OS
OS

4A
VOLATILE METHOD BLANK SUMMARY

La' Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >CF050 Lab Sample ID: 0603VBLK C1

Date Analyzed: 6/03/93 Time Analyzed: 10:36

Matrix: WATER Level: LOW

Instrument ID: HP5970-C

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

	LAB SAMPLE ID.	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AE#7895	PADRINSE05 1:1	>CF051	6/03/93
02	AE#7895	PADRINSE05 MS	>CF052	6/03/93
03	AE#7895	PADRINSE05 MSD	>CF053	6/03/93
04	AE#7896	PADWASH02 1:10	>CF054	6/03/93
05	AE#7896	PADWASH02 MS	>CF055	6/03/93
06				
07				
08				
09				
10				
11				
12				
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C(ENTS:

FORM IV VOA

2/88 Rev.

000018

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >CF084 Lab Sample ID: 0605HBLK C1

Date Analyzed: 6/05/93 Time Analyzed: 17:42

Matrix: SOIL Level: LOW

Instrument ID: HP5970-C

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

	LAB SAMPLE ID.	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AE#7902	P#1CONCR.08	>CF090	6/05/93
02	AE#7903	P#2CONCR.11	>CF091	6/05/93
03	AE#7903	P#2CONCR11 MS	>CF092	6/06/93
04	AE#7903	P#2CONCR11 MSD	>CF093	6/06/93
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COMMENTS: _____

FORM IV VOA 2/88 Rev.

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4A
VOLATILE METHOD BLANK SUMMARY

L Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >AF268 Lab Sample ID: 0617VBLK A1

Date Analyzed: 6/17/93 Time Analyzed: 19:19

Matrix: WATER Level: LOW

Instrument ID: HP5985-A

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AE#7895	PADRINSE05	>AF270	6/17/93
02	AE#7896	PADWASH02	>AF271	6/17/93
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

La' Name: AMER.ENV.NTWK. Contract: N.A.

Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Lab File ID: >CD004 BFB Injection Date: 4/02/93

Instrument ID: HP5970-C BFB Injection Time: 16:28

Matrix: WATER Level: LOW Column: PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	24.9
75	30.0 - 60.0% OF MASS 95	51.7
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	8.1
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	67.6
175	5.0 - 9.0% of mass 174	5.0(7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	67.6(100.1)1
177	5.0 - 9.0% of mass 176	4.8(7.1)2

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

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0402VSTD20	0402VSTD20	>CD006	4/02/93	17:49
02	0402VSTD50	0402VSTD50	>CD007	4/02/93	18:35
03	0402VSTD100	0402VSTD100	>CD008	4/02/93	19:22
04	0402VSTD150	0402VSTD150	>CD009	4/02/93	20:09
05	0402VSTD200	0402VSTD200	>CD010	4/02/93	20:56
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FORM V VOA 2/88 Rev.

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

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

ab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >CF001 BFB Injection Date: 6/01/93

Instrument ID: HP5970-C BFB Injection Time: 8:44

Matrix: WATER Level: LOW Column: PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	23.4
75	30.0 - 60.0% OF MASS 95	45.8
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	67.4
175	5.0 - 9.0% of mass 174	4.6(6.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.5(95.7)1
177	5.0 - 9.0% of mass 176	4.4(6.8)2

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

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0601VSTD50	0601VSTD50 C1	>CF002	6/01/93	9:21
02	0601VBLK C1	0601VBLK C1	>CF003	6/01/93	10:33
03	AE#7894	TRIP BLANK	>CF012	6/01/93	18:16
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FORM V VOA 2/88 Rev.

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

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

ab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >CF048 BFB Injection Date: 6/03/93

Instrument ID: HP5970-C BFB Injection Time: 8:39

Matrix: WATER Level: LOW Column: PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	25.6
75	30.0 - 60.0% OF MASS 95	49.7
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	70.5
175	5.0 - 9.0% of mass 174	5.1(7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.9(99.2)1
177	5.0 - 9.0% of mass 176	4.9(7.0)2

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

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0603VSTD50	0603VSTD50 C1	>CF049	6/03/93	9:15
02	0603VBLK C1	0603VBLK C1	>CF050	6/03/93	10:36
03	AE#7895	PADRINSE05 1:10	>CF051	6/03/93	11:48
04	AE#7895	PADRINSE05 MS	>CF052	6/03/93	13:18
05	AE#7895	PADRINSE05 MSD	>CF053	6/03/93	14:06
06	AE#7896	PADWASH02 1:10	>CF054	6/03/93	14:54
07	AE#7896	PADWASH02 MS	>CF055	6/03/93	15:42
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FORM V VOA 2/88 Rev.

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

Lab Name: AMER.ENV.NTWK. Contract: N.A.

Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Lab File ID: >CF074 BFB Injection Date: 6/04/93

Instrument ID: HP5970-C BFB Injection Time: 15:42

Matrix: SOIL Level: LOW Column: PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	26.2
75	30.0 - 60.0% OF MASS 95	51.5
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	65.9
175	5.0 - 9.0% of mass 174	5.0(7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	65.3(99.0)1
177	5.0 - 9.0% of mass 176	3.9(5.9)2

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

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0604HSTD 20	0604HSTD 20	>CF077	6/04/93	19:57
02	0604HSTD 50	0604HSTD 50	>CF078	6/04/93	20:45
03	0604HSTD 10	0604HSTD 100	>CF079	6/04/93	21:33
04	0604HSTD 15	0604HSTD 150	>CF080	6/04/93	22:21
05	0604HSTD 20	0604HSTD 200	>CF081	6/04/93	23:09
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FORM V VOA 2/88 Rev.

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

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

ab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >CF082 BFB Injection Date: 6/05/93

Instrument ID: HP5970-C BFB Injection Time: 16:23

Matrix: SOIL Level: LOW Column: PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	26.8
75	30.0 - 60.0% OF MASS 95	51.2
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	69.6
175	5.0 - 9.0% of mass 174	5.3(7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	66.9(96.1)1
177	5.0 - 9.0% of mass 176	4.6(6.9)2

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

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0605HSTD50	0605HSTD50 C1	>CF083	6/05/93	16:53
02	0605HBLK C1	0605HBLK C1	>CF084	6/05/93	17:42
03	AE#7902	P#1CONCR.08	>CF090	6/05/93	22:40
04	AE#7903	P#2CONCR.11	>CF091	6/05/93	23:28
05	AE#7903	P#2CONCR11 MS	>CF092	6/06/93	0:16
06	AE#7903	P#2CONCR11 MSD	>CF093	6/06/93	1:04
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VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AMER.ENV.NTWK. Contract: N.A.

Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Lab File ID: >AF010 BFB Injection Date: 6/02/93

Instrument ID: HP5985-A BFB Injection Time: 23:32

Matrix: WATER Level: LOW Column: CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	18.0
75	30.0 - 60.0% OF MASS 95	44.2
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	88.5
175	5.0 - 9.0% of mass 174	6.5(7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	85.6(96.8)1
177	5.0 - 9.0% of mass 176	5.9(6.9)2

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

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0602VSTD20	0602VSTD20 A1	>AF012	6/03/93	0:43
02	0602VSTD50	0602VSTD50 A1	>AF013	6/03/93	1:26
03	0602VSTD100	0602VSTD100 A1	>AF014	6/03/93	2:09
04	0602VSTD150	0602VSTD150 A1	>AF015	6/03/93	2:51
05	0602VSTD200	0602VSTD200 A1	>AF016	6/03/93	3:34
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VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

I Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID: >AF266 BFB Injection Date: 6/17/93

Instrument ID: HP5985-A BFB Injection Time: 15:37

Matrix: WATER Level: LOW Column: CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	19.0
75	30.0 - 60.0% OF MASS 95	49.9
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	8.0
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	76.0
175	5.0 - 9.0% of mass 174	5.9(7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.0(97.3)1
177	5.0 - 9.0% of mass 176	5.7(7.7)2

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

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0617VSTD50	0617VSTD50 A1	>AF267	6/17/93	16:32
02	0617VBLK A1	0617VBLK A1	>AF268	6/17/93	19:19
03	AE#7895	PADRINSE05	>AF270	6/17/93	21:09
04	AE#7896	PADWASH02	>AF271	6/17/93	21:52
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FORM V VOA 2/88 Rev.

000027

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VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID (Standard): >CF002 Date Analyzed: 6/01/93

Instrument ID: HP5970-C Time Analyzed: 9:21

Matrix: WATER Level: LOW Column: PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	15952.	11.50	64020.	21.30	39433.	26.11
	UPPER LIMIT	31904.		128040.		78866.	
	LOWER LIMIT	7976.		32010.		19716.	
	EPA / CLIENT SAMPLE ID						
01	0601VBLK C1	15147.	11.49	61348.	21.29	37842.	26.09
02	TRIP BLANK	14268.	10.99	53301.	21.26	32229.	26.10
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII VOA 2/88 Rev.

OS

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID (Standard): >CF049 Date Analyzed: 6/03/93

Instrument ID: HP5970-C Time Analyzed: 9:15

Matrix: WATER Level: LOW Column: PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	14446.	10.99	59155.	21.30	37418.	26.10
	UPPER LIMIT	28892.		118310.		74836.	
	LOWER LIMIT	7223.		29578.		18709.	
	EPA / CLIENT SAMPLE ID						
01	0603VBLK C1	14307.	10.99	59718.	21.33	37623.	26.14
02	PADRINSE05 1	15134.	11.02	62884.	21.33	39299.	26.13
03	PADRINSE05 M	14571.	10.99	58110.	21.33	36514.	26.13
04	PADRINSE05 M	13185.	11.00	53689.	21.31	32944.	26.12
05	PADWASH02 1:	13554.	10.98	54679.	21.33	32185.	26.13
06	PADWASH02 MS	13044.	10.99	52805.	21.30	31608.	26.10
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII VOA 2/88 Rev.

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VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

ab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID (Standard): >CF083 Date Analyzed: 6/05/93

Instrument ID: HP5970-C Time Analyzed: 16:53

Matrix: SOIL Level: LOW Column: PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	19953.	10.99	75151.	21.33	41189.	26.14
	UPPER LIMIT	39906.		150302.		82378.	
	LOWER LIMIT	9977.		37575.		20594.	
	EPA / CLIENT SAMPLE ID						
01	0605HBLK C1	18636.	11.02	71449.	21.32	40418.	26.13
02	P#1CONCR.08	17656.	10.99	65844.	21.33	36157.	26.13
03	P#2CONCR.11	17172.	10.99	64242.	21.33	34524.	26.14
04	P#2CONCR11 M	17020.	10.99	61222.	21.33	26256.	26.14
05	P#2CONCR11 M	16499.	10.99	58437.	21.33	27544.	26.13
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII VOA 2/88 Rev.

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8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

I Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Lab File ID (Standard): >AF267 Date Analyzed: 6/17/93

Instrument ID: HP5985-A Time Analyzed: 16:32

Matrix: WATER Level: LOW Column: CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	20978.	10.27	94592.	11.77	35947.	17.18
	UPPER LIMIT	41956.		189184.		71894.	
	LOWER LIMIT	10489.		47296.		17973.	
	EPA / CLIENT SAMPLE ID						
01	0617VBLK A1	20328.	10.26	90803.	11.76	34580.	17.21
02	PADRINSE05	20852.	10.29	93826.	11.79	36173.	17.20
03	PADWASH02	20942.	10.37	100707.	11.80	35783.	17.17
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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FORM VIII VOA 2/88 Rev.

Section c).

STANDARDS DATA

Initial Calibrations (form VI)
Continuing Calibrations (form VII)

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AMER.ENV.NTWK. Contract: N.A.

I Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5970-C Calibration Date(s):04/02/93 N.A.

Matrix: WATER Level: LOW Column: PACK

Min $\overline{RRF}$ for SPCC(#) = 0.3 (0.25 for Bromoform) Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF20 =>CD006 RRF50 =>CD007
RRF100=>CD008 RRF150=>CD009 RRF200=>CD010

COMPOUND		RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#	2.354	2.116	1.893	1.987	2.020	2.074	8.5#
Bromomethane		1.728	1.647	1.494	1.400	1.370	1.528	10.2
Vinyl_Chloride	*	1.761	1.614	1.460	1.526	1.552	1.583	7.2*
Chloroethane		1.197	1.078	.961	1.022	1.029	1.057	8.3
Methylene_Chloride		2.010	1.778	1.655	1.815	1.776	1.807	7.1
Acetone		.547	.461	.476	.448	.477	.482	7.9
Carbon_Disulfide		.858	.722	.679	.742	.710	.742	9.2
1,1-Dichloroethene	*	1.661	1.513	1.432	1.575	1.534	1.543	5.4*
1,1-Dichloroethane	#	3.718	3.514	3.284	3.619	3.560	3.539	4.6#
1,2-Dichloroethene_(Total)		1.714	1.632	1.570	1.695	1.642	1.651	3.4
Chloroform	*	3.626	3.456	3.348	3.678	3.535	3.529	3.7*
1,2-Dichloroethane		2.350	2.274	2.191	2.412	2.396	2.325	3.9
2-Butanone		.127	.124	.135	.131	.151	.134	8.0
1,1,1-Trichloroethane		.710	.659	.637	.723	.715	.689	5.5
Carbon_Tetrachloride		.591	.554	.542	.619	.619	.585	6.2
Vinyl_Acetate		.940	1.013	1.044	1.077	1.246	1.064	10.7
Bromodichloromethane		.933	.890	.869	.982	.987	.932	5.7
1,2-Dichloropropane	*	.666	.614	.585	.645	.652	.632	5.2*
cis-1,3-Dichloropropene		.576	.608	.603	.674	.692	.631	7.9
Trichloroethene		.592	.522	.491	.552	.528	.537	7.0
Dibromochloromethane		.750	.751	.727	.830	.840	.780	6.7
1,1,2-Trichloroethane		.517	.488	.466	.505	.514	.498	4.2
Benzene		1.356	1.226	1.154	1.294	1.271	1.260	6.0
trans-1,3-Dichloropropene		.766	.759	.747	.834	.829	.787	5.2
2-Choroethylvinylether		0.000	0.000	0.000	0.000	0.000	0.000	0.0
Bromoform	#	.481	.483	.497	.549	.589	.520	9.1#
4-Methyl-2-pentanone		1.243	1.145	1.104	1.105	1.322	1.184	8.1
2-Hexanone		.752	.736	.731	.706	.881	.761	9.1
Tetrachloroethene		.822	.717	.678	.760	.732	.742	7.2
1,1,2,2-Tetrachloroethane		1.487	1.461	1.393	1.463	1.653	1.492	6.5
Toluene	*	1.486	1.358	1.281	1.401	1.386	1.382	5.3*
Chlorobenzene	#	1.901	1.721	1.604	1.798	1.745	1.754	6.2#
Ethylbenzene	*	.875	.783	.748	.823	.797	.805	5.9*
Styrene		1.813	1.708	1.646	1.821	1.765	1.751	4.2
Xylene_(Total)		1.057	.954	.910	1.003	.967	.978	5.6
T UENE-d8_(SURR)		2.024	2.005	1.949	1.999	1.980	1.991	1.4
BROMOFLUOROBENZENE_(SURR)		1.524	1.460	1.464	1.512	1.428	1.478	2.7
1,2-DICHLOROETHANE-d4_(SURR		2.024	2.057	2.067	2.115	2.093	2.071	1.7

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AMER.ENV.NTWK. Contract: N.A.

L[illegible] Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5970-C Calibration Date(s):06/04/93 N.A.

Matrix: SOIL Level: LOW Column: PACK

Min $\overline{RRF}$ for SPCC(#) = 0.3 (0.25 for Bromoform) Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF20 =>CF077 RRF50 =>CF078
RRF100=>CF079 RRF150=>CF080 RRF200=>CF081

COMPOUND		RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#	1.763	1.737	1.718	1.699	1.687	1.721	1.8#
Bromomethane		1.349	1.261	1.274	1.271	1.285	1.288	2.7
Vinyl_Chloride	*	1.314	1.368	1.100	1.069	1.066	1.183	12.3*
Chloroethane		.997	1.015	1.016	.898	.655	.916	16.8
Methylene_Chloride		3.033	2.165	2.012	1.857	1.822	2.178	22.8
Acetone		2.302	1.583	1.257	1.240	1.088	1.494	32.5
Carbon_Disulfide		1.173	.931	.798	.739	.704	.869	22.0
1,1-Dichloroethene	*	1.389	1.544	1.516	1.474	1.442	1.473	4.1*
1,1-Dichloroethane	#	3.352	3.719	3.607	3.537	3.502	3.543	3.8#
1,2-Dichloroethene_(Total)		1.521	1.667	1.649	1.593	1.574	1.601	3.7
Chloroform	*	3.308	3.634	3.564	3.525	3.463	3.499	3.5*
1,2-Dichloroethane		2.211	2.484	2.421	2.400	2.386	2.380	4.3
2-Butanone		.312	.356	.345	.348	.341	.340	4.9
1,1,1-Trichloroethane		.602	.674	.673	.679	.671	.660	4.9
Carbon_Tetrachloride		.480	.551	.562	.560	.558	.542	6.4
Vinyl_Acetate		.758	.939	.975	.823	.843	.867	10.2
Bromodichloromethane		.799	.915	.873	.923	.933	.888	6.2
1,2-Dichloropropane	*	.592	.661	.648	.662	.664	.646	4.7*
cis-1,3-Dichloropropene		.590	.652	.607	.659	.653	.632	5.0
Trichloroethene		.486	.542	.519	.532	.543	.525	4.5
Dibromochloromethane		.669	.791	.753	.845	.852	.782	9.6
1,1,2-Trichloroethane		.517	.536	.508	.543	.552	.531	3.4
Benzene		1.209	1.306	1.275	1.282	1.280	1.270	2.9
trans-1,3-Dichloropropene		.680	.787	.749	.791	.786	.759	6.2
2-Choroethylvinylether		.082	.124	.111	.132	.141	.118	19.3
Bromoform	#	.459	.555	.533	.625	.632	.561	12.7#
4-Methyl-2-pentanone		2.193	2.603	2.705	2.516	2.441	2.492	7.8
2-Hexanone		1.797	2.069	2.117	1.966	1.884	1.967	6.7
Tetrachloroethene		1.297	.779	.806	.757	.787	.885	26.1
1,1,2,2-Tetrachloroethane		1.840	2.046	2.059	2.055	2.039	2.008	4.7
Toluene	*	1.291	1.456	1.493	1.369	1.369	1.396	5.7*
Chlorobenzene	#	1.667	1.824	1.773	1.789	1.804	1.771	3.5#
Ethylbenzene	*	.732	.808	.808	.771	.793	.782	4.1*
Styrene		1.602	1.761	1.633	1.681	1.696	1.675	3.7
Xylene_(Total)		.906	.996	.987	.948	.960	.959	3.7
[illegible]UENE-d8_(SURR)		1.992	2.153	2.102	2.020	1.985	2.050	3.6
BROMOFLUOROBENZENE_(SURR)		1.532	1.566	1.370	1.479	1.457	1.481	5.1
1,2-DICHLOROETHANE-d4_(SURR		2.095	2.226	2.081	2.102	2.082	2.117	2.9

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AMER.ENV.NTWK. Contract: N.A.
Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.
Instrument ID: HP5985-A Calibration Date(s):06/02/93 N.A.
Matrix: WATER Level: LOW Column: CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform)
Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 =>AF012 RRF50 =>AF013
RRF100=>AF014 RRF150=>AF015 RRF200=>AF016

COMPOUND		RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#	1.467	1.447	1.428	1.497	1.548	1.477	3.2#
Bromomethane		1.610	1.583	1.526	1.441	1.423	1.517	5.5
Vinyl_Chloride	*	1.440	1.466	1.317	1.351	1.345	1.384	4.7*
Chloroethane		1.158	1.216	1.131	1.091	1.072	1.134	5.0
Methylene_Chloride		2.047	1.936	1.899	2.005	1.846	1.947	4.1
Acetone		.379	.401	.389	.378	.382	.386	2.5
Carbon_Disulfide		.918	.838	.840	.902	.839	.867	4.6
1,1-Dichloroethene	*	1.795	1.762	1.735	1.855	1.688	1.767	3.5*
1,1-Dichloroethane	#	3.497	3.372	3.269	3.543	3.208	3.378	4.2#
trans-1,2-Dichloroethene		1.892	1.869	1.852	2.006	1.839	1.892	3.5
Chloroform	*	3.081	2.981	2.873	3.127	2.828	2.978	4.3*
1,2-Dichloroethane		1.654	1.624	1.593	1.689	1.572	1.626	2.9
2-Butanone		.222	.230	.251	.288	.264	.251	10.6
1,1,1-Trichloroethane		.444	.424	.410	.451	.400	.426	5.0
Carbon_Tetrachloride		.354	.344	.328	.357	.326	.342	4.2
Vinyl_Acetate		1.016	.916	.957	.941	.814	.929	8.0
Bromodichloromethane		.574	.573	.561	.610	.577	.579	3.2
1,2-Dichloropropane	*	.546	.525	.516	.568	.507	.532	4.6*
cis-1,3-Dichloropropene		.598	.604	.572	.624	.571	.594	3.8
Trichloroethene		.453	.455	.436	.481	.436	.452	4.1
Dibromochloromethane		.544	.570	.513	.569	.517	.543	5.0
1,1,2-Trichloroethane		.463	.440	.429	.463	.424	.444	4.2
Benzene		1.398	1.329	1.288	1.361	1.227	1.320	5.0
trans-1,3-Dichloropropene		.738	.731	.702	.749	.682	.720	3.8
2-Chloroethylvinylether		.075	0.000	.130	.132	.139	.119	24.9
Bromoform	#	.446	.460	.437	.462	.423	.446	3.6#
4-Methyl-2-Pentanone		1.740	1.525	1.888	1.902	1.872	1.785	8.9
2-Hexanone		1.069	1.137	1.186	1.213	1.114	1.144	5.0
Tetrachloroethene		1.191	1.127	1.118	1.158	1.026	1.124	5.5
1,1,2,2-Tetrachloroethane	#	2.404	2.466	2.502	2.601	2.375	2.470	3.6#
Toluene	*	2.635	2.365	2.384	2.482	2.245	2.422	6.0*
Chlorobenzene	#	2.932	2.915	2.796	2.899	2.621	2.833	4.6#
Ethylbenzene	*	5.305	4.623	4.967	5.006	4.317	4.844	7.9*
Styrene		3.383	3.065	3.098	3.209	2.894	3.130	5.8
m + p-Xylenes		1.867	1.712	1.590	1.599	1.493	1.652	8.7
o-Xylene		1.839	1.720	1.720	1.763	1.585	1.725	5.4
TOLUENE-d8_(SURR)		4.108	3.829	3.927	3.583	3.568	3.803	6.1
BROMOFLUOROBENZENE_(SURR)		1.985	1.759	1.800	1.695	1.625	1.773	7.7
1,2-DICHLOROETHANE-d4_(SURR		1.597	1.445	1.490	1.431	1.430	1.479	4.8

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5970-C Calibration Date: 6/01/93 9:21

Lab File ID: >CF002 Init. Calib. Date(s): 05/03/93 N.A.

Matrix: WATER Level: LOW Column: PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform)
Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	2.074	1.098	47.1	#
Bromomethane		1.528	1.272	16.7	
Vinyl Chloride	*	1.583	1.831	15.7	*
Chloroethane		1.057	1.393	31.8	
Methylene_Chloride		1.807	2.018	11.7	
Acetone		.482	.455	5.6	
Carbon_Disulfide		.742	.675	9.1	
1,1-Dichloroethene	*	1.543	1.558	1.0	*
1,1-Dichloroethane	#	3.539	3.763	6.3	#
1,2-Dichloroethene_(Total)		1.651	1.773	7.4	
Chloroform	*	3.529	3.797	7.6	*
1,2-Dichloroethane		2.325	2.449	5.3	
2-Butanone		.134	.118	11.7	
1,1,1-Trichloroethane		.689	.667	3.1	
Carbon_Tetrachloride		.585	.594	1.6	
Vinyl Acetate		1.064	1.039	2.4	
Bromodichloromethane		.932	.922	1.1	
1,2-Dichloropropane	*	.632	.642	1.5	*
cis-1,3-Dichloropropene		.631	.682	8.2	
Trichloroethene		.537	.550	2.4	
Dibromochloromethane		.780	.816	4.6	
1,1,2-Trichloroethane		.498	.526	5.5	
Benzene		1.260	1.310	4.0	
trans-1,3-Dichloropropene		.787	.804	2.1	
2-Choroethylvinylether		0.000	0.000	0.0	
Bromoform	#	.520	.524	.8	#
4-Methyl-2-pentanone		1.184	.996	15.9	
2-Hexanone		.761	.665	12.6	
Tetrachloroethene		.742	.769	3.7	
1,1,2,2-Tetrachloroethane		1.492	1.417	5.0	
Toluene	*	1.382	1.286	6.9	*
Chlorobenzene	#	1.754	1.750	.2	#
Ethylbenzene	*	.805	.762	5.3	*
Styrene		1.751	1.701	2.8	
Xylene_(Total)		.978	.944	3.5	
TOLUENE-d8_(SURR)		1.991	1.776	10.8	
BROMOFLUOROBENZENE_(SURR)		1.478	1.506	1.9	
1,2-DICHLOROETHANE-d4_(SURR		2.071	2.050	1.0	

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5970-C Calibration Date: 6/03/93 9:15

Lab File ID:)CF049 Init. Calib. Date(s): 05/03/93 N.A.

Matrix: WATER Level: LOW Column: PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform)
Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane #	2.074	2.509	21.0 #
Bromomethane	1.528	2.059	34.8
Vinyl Chloride *	1.583	1.907	20.5 *
Chloroethane	1.057	1.412	33.5
Methylene Chloride	1.807	2.281	26.3
Acetone	.482	.545	13.0
Carbon Disulfide	.742	.779	4.9
1,1-Dichloroethene *	1.543	1.757	13.9 *
1,1-Dichloroethane #	3.539	4.396	24.2 #
1,2-Dichloroethene (Total)	1.651	1.973	19.5
Chloroform *	3.529	4.308	22.1 *
1,2-Dichloroethane	2.325	2.853	22.7
2-Butanone	.134	.139	3.7
1,1,1-Trichloroethane	.689	.718	4.2
Carbon Tetrachloride	.585	.607	3.8
Vinyl Acetate	1.064	.813	23.6
Bromodichloromethane	.932	1.016	9.0
1,2-Dichloropropane *	.632	.732	15.7 *
cis-1,3-Dichloropropene	.631	.684	8.5
Trichloroethene	.537	.613	14.2
Dibromochloromethane	.780	.847	8.6
1,1,2-Trichloroethane	.498	.554	11.2
Benzene	1.260	1.471	16.7
trans-1,3-Dichloropropene	.787	.873	11.0
2-Choroethylvinylether	0.000	0.000	0.0
Bromoform #	.520	.489	6.0 #
4-Methyl-2-pentanone	1.184	1.051	11.2
2-Hexanone	.761	.693	9.0
Tetrachloroethene	.742	.850	14.7
1,1,2,2-Tetrachloroethane	1.492	1.316	11.8
Toluene *	1.382	1.404	1.5 *
Chlorobenzene #	1.754	1.883	7.4 #
Ethylbenzene *	.805	.822	2.2 *
Styrene	1.751	1.820	4.0
Xylene (Total)	.978	1.015	3.8
TOLUENE-d8 (SURR)	1.991	1.932	3.0
BROMOFLUOROBENZENE (SURR)	1.478	1.655	12.0
1,2-DICHLOROETHANE-d4 (SURR	2.071	2.328	12.4

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5970-C Calibration Date: 6/05/93 16:53

Lab File ID: >CF083 Init. Calib. Date(s): 06/04/93 N.A.

Matrix: SOIL Level: LOW Column: PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform)
Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	1.771	1.682	5.1	#
Bromomethane		1.308	1.266	3.2	
Vinyl Chloride	*	1.255	1.292	2.9	*
Chloroethane		.954	.996	4.4	
Methylene Chloride		2.514	1.933	23.1	
Acetone		2.522	1.212	52.0	
Carbon Disulfide		1.124	1.004	10.7	
1,1-Dichloroethene	*	1.483	1.506	1.6	*
1,1-Dichloroethane	#	3.546	3.503	1.2	#
1,2-Dichloroethene (Total)		1.614	1.640	1.6	
Chloroform	*	3.499	3.540	1.1	*
1,2-Dichloroethane		2.372	2.340	1.3	
2-Butanone		.324	.325	.4	
1,1,1-Trichloroethane		.655	.639	2.4	
Carbon Tetrachloride		.532	.518	2.7	
Vinyl Acetate		.862	.912	5.7	
Bromodichloromethane		.887	.880	.7	
1,2-Dichloropropane	*	.641	.619	3.5	*
cis-1,3-Dichloropropene		.633	.637	.6	
Trichloroethene		.526	.537	2.1	
Dibromochloromethane		.775	.748	3.5	
1,1,2-Trichloroethane		.550	.508	7.7	
Benzene		1.278	1.255	1.8	
trans-1,3-Dichloropropene		.754	.773	2.6	
2-Choroethylvinylether		0.000	0.000	0.0	
Bromoform	#	.551	.534	3.1	#
4-Methyl-2-pentanone		2.527	2.307	8.7	
2-Hexanone		1.989	1.822	8.4	
Tetrachloroethene		.923	.765	17.1	
1,1,2,2-Tetrachloroethane		2.080	1.929	7.2	
Toluene	*	1.419	1.380	2.8	*
Chlorobenzene	#	1.812	1.784	1.6	#
Ethylbenzene	*	.804	.784	2.5	*
Styrene		1.734	1.727	.4	
Xylene (Total)		.987	.975	1.2	
TOLUENE-d8 (SURR)		2.065	1.983	4.0	
BROMOFLUOROBENZENE (SURR)		1.529	1.506	1.5	
1,2-DICHLOROETHANE-d4 (SURR		2.112	2.025	4.1	

FORM VII VOA SW 846

OS
OS

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

I Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5985-A Calibration Date: 6/17/93 Time: 16:32

Lab File ID: >AF267 Init. Calib. Date(s): 06/03/93 N.A.

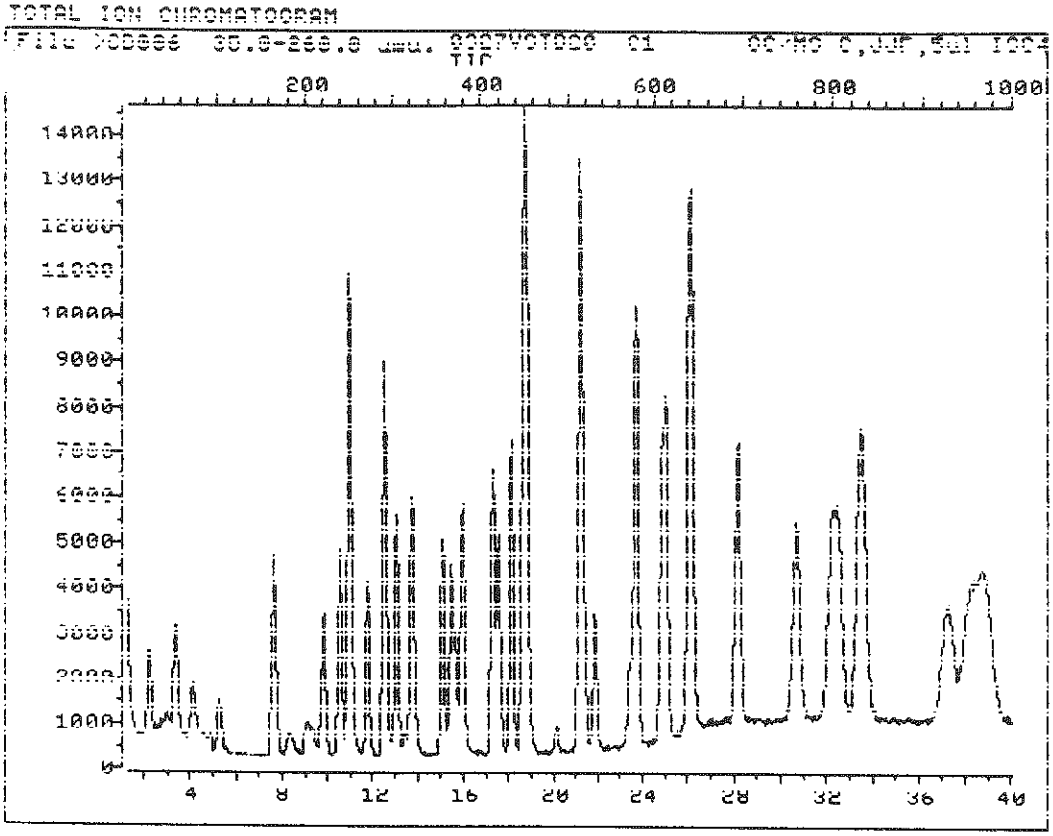
Matrix: WATER Level: LOW Column: CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform)

Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	1.477	.990	33.0	#
Bromomethane		1.517	1.445	4.7	
Vinyl Chloride	*	1.384	1.138	17.8	*
Chloroethane		1.134	1.119	1.3	
Methylene_Chloride		1.947	2.291	17.7	
Acetone		.386	.625	61.9	
Carbon_Disulfide		.867	1.019	17.5	
1,1-Dichloroethene	*	1.767	1.933	9.4	*
1,1-Dichloroethane	#	3.378	3.750	11.0	#
trans-1,2-Dichloroethene		1.892	2.106	11.3	
Chloroform	*	2.978	3.563	19.6	*
1,2-Dichloroethane		1.626	1.941	19.3	
2-Butanone		.251	.281	11.9	
1,1,1-Trichloroethane		.426	.509	19.6	
Carbon_Tetrachloride		.342	.432	26.5	
Vinyl Acetate		.929	.966	4.0	
Bromodichloromethane		.579	.656	13.3	
1,2-Dichloropropane	*	.532	.621	16.6	*
cis-1,3-Dichloropropene		.594	.716	20.5	
Trichloroethene		.452	.532	17.7	
Dibromochloromethane		.543	.647	19.2	
1,1,2-Trichloroethane		.444	.501	12.9	
Benzene		1.320	1.413	7.0	
trans-1,3-Dichloropropene		.720	.850	18.1	
2-Chloroethylvinylether		.119	.158	32.6	
Bromoform	#	.446	.522	17.2	#
4-Methyl-2-Pentanone		1.785	1.640	8.2	
2-Hexanone		1.144	1.028	10.1	
Tetrachloroethene		1.124	1.125	.1	
1,1,2,2-Tetrachloroethane	#	2.470	2.539	2.8	#
Toluene	*	2.422	2.415	.3	*
Chlorobenzene	#	2.833	2.830	.1	#
Ethylbenzene	*	4.844	4.702	2.9	*
Styrene		3.130	3.251	3.9	
m + p-Xylenes		1.652	1.730	4.7	
o-Xylene		1.725	1.809	4.8	
TOLUENE-d8_(SURR)		3.803	3.534	7.1	
BROMOFLUOROBENZENE_(SURR)		1.773	1.819	2.6	
1,2-DICHLOROETHANE-d4_(SURR		1.479	1.505	1.8	

TOTAL ION CHROMATOGRAM



Data File: >CD006::C1 Quant Output File: ^CD006::OU
Name: 0327VSTD20 C1
Misc: GC/MS C,JJF,5ul ISC4,2ul SSC4,V01C4,V02C4/5mls

Id File: I9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 16:25

Operator ID: ZIPPY
Quant Time: 930402 18:30
Injected at: 930402 17:49

QUANT REPORT

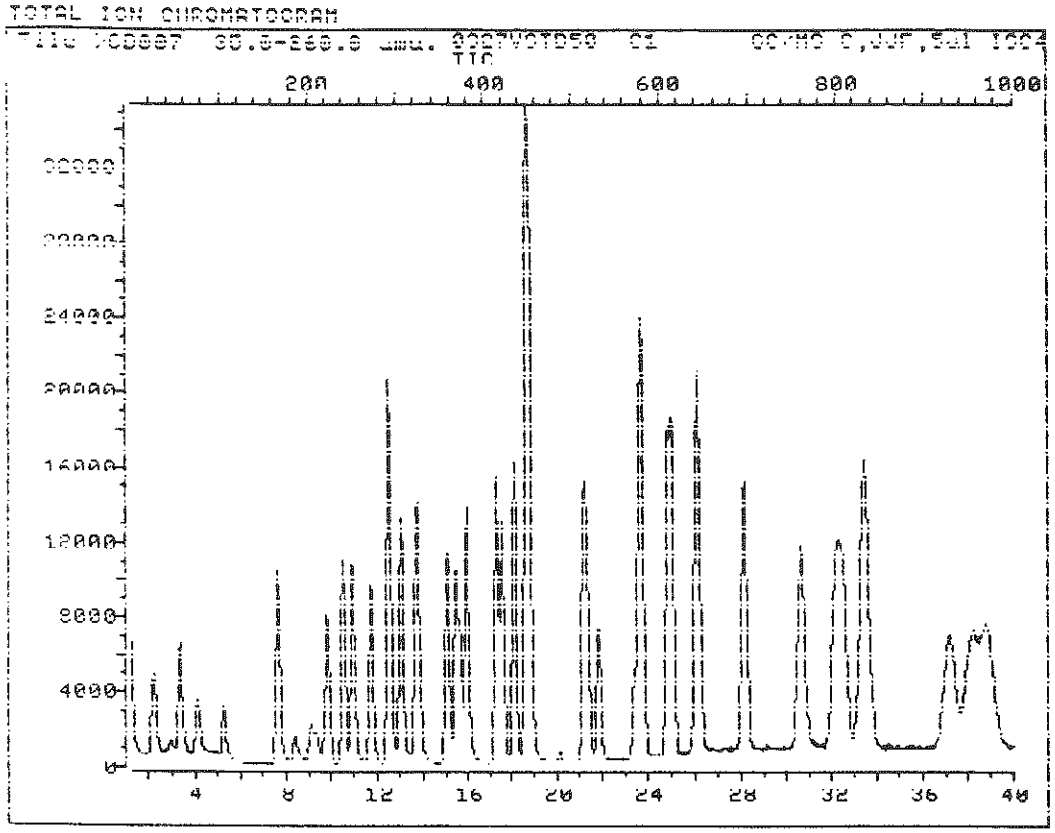
Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930402 18:30
Output File: ^CD006::OU Injected at: 930402 17:49
Data File: >CD006::C1 Dilution Factor: 1.00000
Name: 0327VSTD20 C1
Misc: GC/MS C,JJF,5ul ISC4,2ul SSC4,V01C4,V02C4/5mls

ID File: I9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 16:25

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	250	16477	50.00	ug/L	84
2)	Chloromethane	50.0	25	15517	24.85	ug/L	95
3)	Bromomethane	94.0	53	11386	23.06	ug/L	88
4)	Vinyl Chloride	62.0	73	11609	23.84	ug/L	99
5)	Chloroethane	64.0	104	7886	24.08	ug/L	93
6)	Methylene Chloride	84.0	164	13246	24.35	ug/L	92
7)	Acetone	43.0	181	3605	24.29	ug/L	84
8)	Acrylonitrile	53.0	201	5676	48.10	ug/L	100
9)	Acrolein	56.0	184	3217M	77.75	ug/L	
10)	Trichlorofluoromethane	101.0	221	17901	20.84	ug/L	100
11)	Carbon Disulfide	76.0	209	5653	3.88	ug/L	87
12)	1,1-Dichloroethene	96.0	239	10946	25.25	ug/L	72
13)	1,1-Dichloroethane	63.0	271	24504	23.43	ug/L	93
14)	1,2-Dichloroethene (Total)	96.0	290	22590	44.80	ug/L	87
15)	Chloroform	83.0	304	23899	22.53	ug/L	91
16)	1,2-Dichloroethane	62.0	324	15488	20.33	ug/L	95
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	321	13339	19.55	ug/L	94
18)	2-Butanone	72.0	323	839	3.80	ug/L	98
19)	*1,4-Difluorobenzene	114.0	513	60688	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	356	17238	22.18	ug/L	78
21)	Carbon Tetrachloride	117.0	366	14346	21.51	ug/L	87
22)	Vinyl Acetate	43.0	371	22817M	6634.59	ug/L	
23)	Bromodichloromethane	83.0	379	22657	22.11	ug/L	91
24)	1,2-Dichloropropane	63.0	414	16169	24.68	ug/L	92
25)	trans-1,3-Dichloropropene	75.0	420	18603	21.98	ug/L	96
26)	Trichloroethene	130.0	435	14371	26.72	ug/L	92
27)	Dibromochloromethane	129.0	450	18215	22.51	ug/L	98
28)	1,1,2-Trichloroethane	97.0	452	12556	24.00	ug/L	94
29)	Benzene	78.0	448	32926	25.09	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	453	13982	18.82	ug/L	100
32)	Bromoform	173.0	518	11685	24.10	ug/L	94
33)	*Chlorobenzene-d5	117.0	639	33362	50.00	ug/L	98
34)	4-Methyl-2-Pentanone	43.0	531	16585	27.65	ug/L	87
35)	2-Hexanone	43.0	571	10034	25.34	ug/L	88
36)	Tetrachloroethene	164.0	579	10965	28.58	ug/L	99
37)	1,1,2,2-Tetrachloroethane	83.0	577	19848	24.27	ug/L	78
38)	Toluene	92.0	614	19829	25.74	ug/L	99
39)	Chlorobenzene	112.0	642	25370	25.54	ug/L	94
40)	Ethylbenzene	106.0	694	11677	25.41	ug/L	97
41)	Styrene	104.0	798	24196	22.69	ug/L	97
42)	Xylene (Total)	106.0	832	42318M	72.91	ug/L	97
43)	m-Xylene	106.0	806	14369	24.25	ug/L	100
44)	o + p-Xylenes	106.0	832	27912	48.65	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
45)	BROMOFLUOROBENZENE (SURR)	95.0	759	20342	24.58	ug/L	88
46)	TOLUENE-d8 (SURR)	98.0	609	27010	23.03	ug/L	89
47)	1,3 Dichlorobenzene	146.0	927	22584	25.30	ug/L	100
48)	1,2 Dichlorobenzene	146.0	954	21441M	25.63	ug/L	100
49)	1,4 Dichlorobenzene	146.0	970	23760M	25.19	ug/L	100

* Compound is ISTD



Data File: >CD007::C1 Quant Output File: ^CD007::OU
Name: 0327VSTD50 C1
Misc: GC/MS C,JJF,5ul ISC4,5ul SSC4,V01C4,V02C4/5mls

Id File: I9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

Operator ID: ZIPPY
Quant Time: 930402 19:16
Injected at: 930402 18:35

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930402 19:16
Output File: ^CD007::OU Injected at: 930402 18:35
Data File: >CD007::C1 Dilution Factor: 1.00000
Name: 0327USTD50 C1
Misc: GC/MS C,JJF,5ul ISC4,5ul SSC4,V01C4,V02C4/5mls

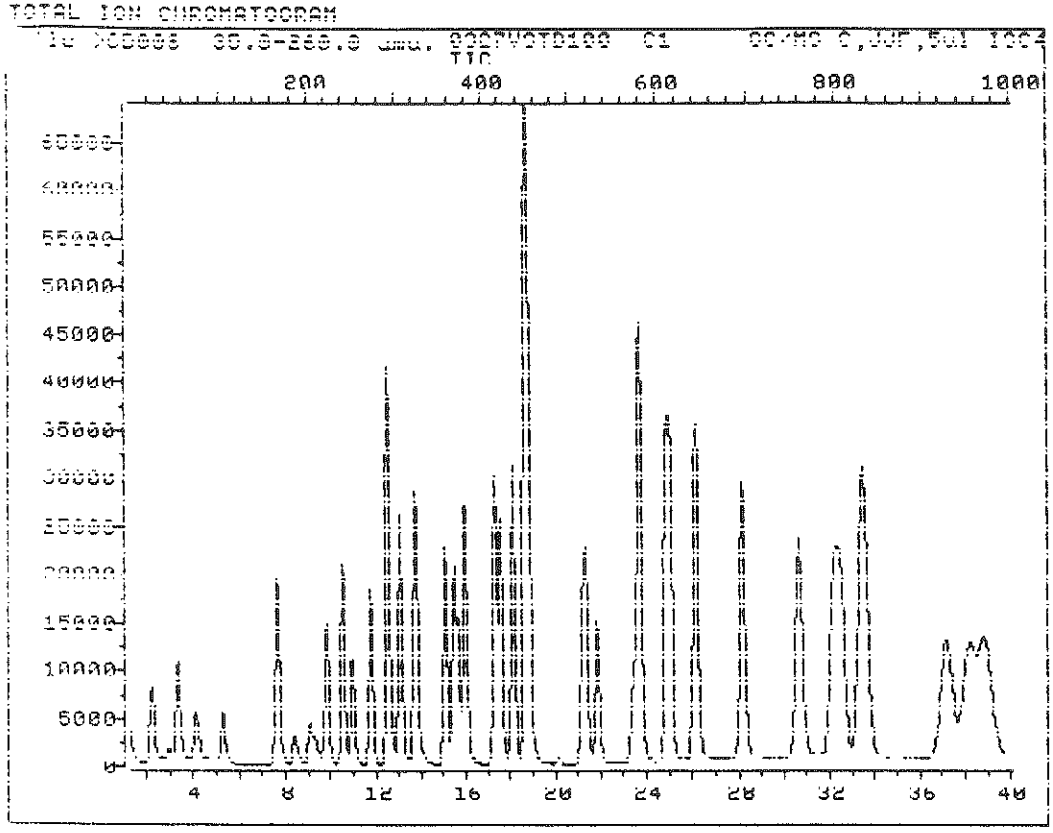
ID File: I9UCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	250	16476	50.00	ug/L	86
2)	Chloromethane	50.0	25	34866	55.84	ug/L	93
3)	Bromomethane	94.0	54	27140	54.98	ug/L	87
4)	Vinyl Chloride	62.0	74	26596	54.63	ug/L	96
5)	Chloroethane	64.0	104	17760	54.23	ug/L	96
6)	Methylene Chloride	84.0	165	29291	53.86	ug/L	88
7)	Acetone	43.0	185	7604	51.24	ug/L	87
8)	Acrylonitrile	53.0	202	13836	117.25	ug/L	100
9)	Acrolein	56.0	184	7202M	174.07	ug/L	
10)	Trichlorofluoromethane	101.0	221	44172	51.43	ug/L	100
11)	Carbon Disulfide	76.0	208	11887	8.16	ug/L	87
12)	1,1-Dichloroethene	96.0	240	24923	57.49	ug/L	71
13)	1,1-Dichloroethane	63.0	271	57900	55.36	ug/L	95
14)	1,2-Dichloroethene (Total)	96.0	290	53795	106.70	ug/L	90
15)	Chloroform	83.0	305	56941	53.68	ug/L	94
16)	1,2-Dichloroethane	62.0	324	37473	49.19	ug/L	97
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	321	33899	49.68	ug/L	97
18)	2-Butanone	72.0	323	2034	9.21	ug/L	98
19)	*1,4-Difluorobenzene	114.0	514	62796	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	357	41410	51.49	ug/L	78
21)	Carbon Tetrachloride	117.0	366	34758	50.38	ug/L	84
22)	Vinyl Acetate	43.0	371	63604	17873.56	ug/L	70
23)	Bromodichloromethane	83.0	379	55900	52.73	ug/L	93
24)	1,2-Dichloropropane	63.0	414	38534	56.84	ug/L	91
25)	trans-1,3-Dichloropropene	75.0	421	47673	54.42	ug/L	94
26)	Trichloroethene	130.0	435	32792	58.92	ug/L	92
27)	Dibromochloromethane	129.0	450	47132	56.29	ug/L	98
28)	1,1,2-Trichloroethane	97.0	453	30630	56.58	ug/L	93
29)	Benzene	78.0	449	76984	56.68	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	453	38201	49.68	ug/L	100
32)	Bromoform	173.0	518	30313	60.41	ug/L	99
33)	*Chlorobenzene-d5	117.0	640	34714	50.00	ug/L	96
34)	4-Methyl-2-Pentanone	43.0	532	39734	63.67	ug/L	85
35)	2-Hexanone	43.0	572	25547	62.00	ug/L	84
36)	Tetrachloroethene	164.0	580	24885	62.34	ug/L	93
37)	1,1,2,2-Tetrachloroethane	83.0	577	50719	59.60	ug/L	73
38	Toluene	92.0	614	47141	58.82	ug/L	98
39)	Chlorobenzene	112.0	642	59744	57.80	ug/L	94
40)	Ethylbenzene	106.0	694	27165	56.81	ug/L	98
41)	Styrene	104.0	798	59294	53.44	ug/L	99
42)	Xylene (Total)	106.0	831	99302M	164.43	ug/L	98
43)	m-Xylene	106.0	805	33647	54.57	ug/L	100
44)	o + p-Xylenes	106.0	831	65583	109.85	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
45)	BROMOFLUOROBENZENE (SURR)	95.0	759	50694	58.87	ug/L	82
46)	TOLUENE-d8 (SURR)	98.0	609	69613	57.05	ug/L	93
47)	1,3 Dichlorobenzene	146.0	926	50674	54.56	ug/L	100
48)	1,2 Dichlorobenzene	146.0	953	50498M	58.01	ug/L	100
49)	1,4 Dichlorobenzene	146.0	970	54388M	55.42	ug/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CD008::C1 Quant Output File: ^CD008::OU
Name: 0327USTD100 C1
Misc: GC/MS C,JJF,5ul ISC4,10ul SSC4,V01C4,V02C4/5mls

Id File: I9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

Operator ID: ZIPPY
Quant Time: 930402 20:03
Injected at: 930402 19:22

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930402 20:03
Output File: ^CD008::OU Injected at: 930402 19:22
Data File: >CD008::C1 Dilution Factor: 1.00000
Name: 0327USTD100 C1
Misc: GC/MS C,JJF,5ul ISC4,10ul SSC4,V01C4,V02C4/5mls

ID File: I8VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

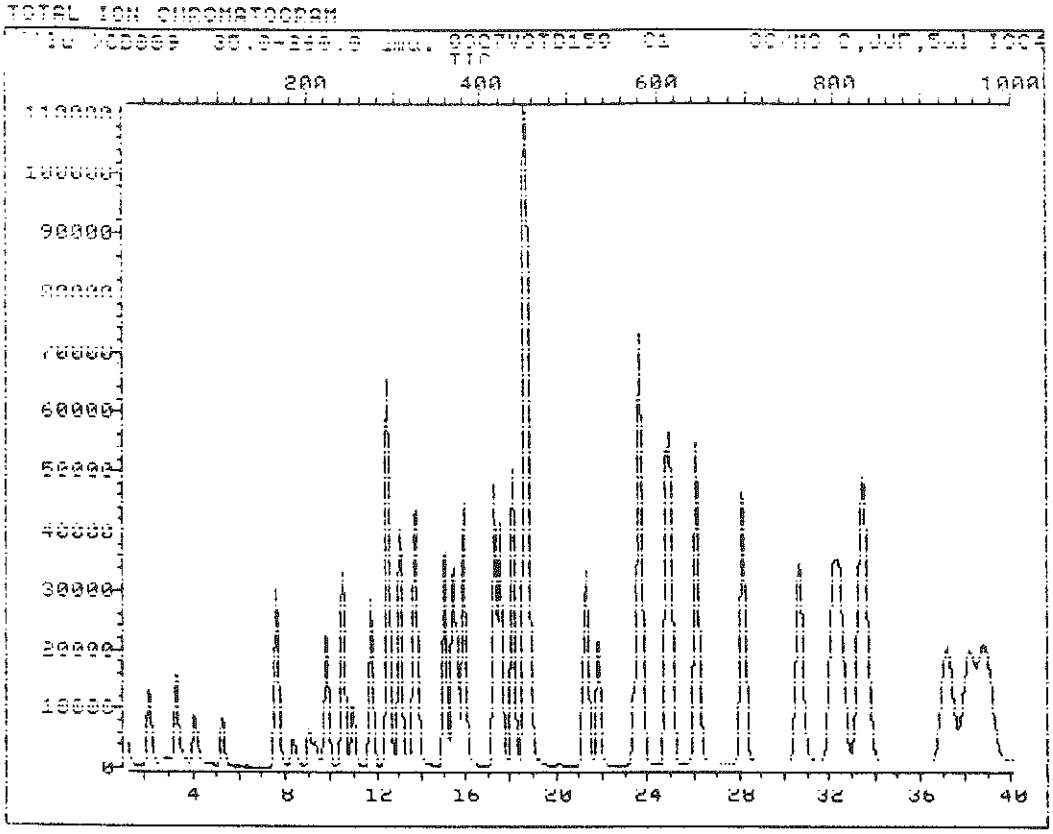
	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	16713	50.00	ug/L	82
2)	Chloromethane	50.0	25	63270	99.90	ug/L	91
3)	Bromomethane	94.0	54	49953	99.76	ug/L	84
4)	Vinyl Chloride	62.0	74	48789	98.79	ug/L	96
5)	Chloroethane	64.0	104	32128	96.71	ug/L	97
6)	Methylene Chloride	84.0	165	55307	100.25	ug/L	91
7)	Acetone	43.0	185	15899	105.61	ug/L	85
8)	Acrylonitrile	53.0	202	28730	240.02	ug/L	100
9)	Acrolein	56.0	184	14230M	339.07	ug/L	
10)	Trichlorofluoromethane	101.0	222	82319	94.49	ug/L	100
11)	Carbon Disulfide	76.0	209	22696	15.37	ug/L	86
12)	1,1-Dichloroethene	96.0	240	47862	108.85	ug/L	70
13)	1,1-Dichloroethane	63.0	272	109779	103.48	ug/L	95
14)	1,2-Dichloroethene (Total)	96.0	291	104987	205.28	ug/L	87
15)	Chloroform	83.0	305	111915	104.01	ug/L	94
16)	1,2-Dichloroethane	62.0	324	73244	94.78	ug/L	99
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	321	69084	99.81	ug/L	95
18)	2-Butanone	72.0	324	4513	20.14	ug/L	92
19)	*1,4-Difluorobenzene	114.0	514	63738	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	357	81234	99.52	ug/L	78
21)	Carbon Tetrachloride	117.0	367	69088	98.65	ug/L	84
22)	Vinyl Acetate	43.0	372	133104	36851.16	ug/L	69
23)	Bromodichloromethane	83.0	380	110746	102.92	ug/L	91
24)	1,2-Dichloropropane	63.0	415	74600	108.42	ug/L	93
25)	trans-1,3-Dichloropropene	75.0	421	95267	107.15	ug/L	94
26)	Trichloroethene	130.0	436	62539	110.70	ug/L	87
27)	Dibromochloromethane	129.0	450	92636	109.00	ug/L	98
28)	1,1,2-Trichloroethane	97.0	453	59453	108.19	ug/L	97
29)	Benzene	78.0	449	147105	106.71	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	454	76895	98.53	ug/L	100
32)	Bromoform	173.0	518	63290	124.26	ug/L	94
33)	*Chlorobenzene-d5	117.0	640	36376	50.00	ug/L	97
34)	4-Methyl-2-Pentanone	43.0	532	80337	122.86	ug/L	87
35)	2-Hexanone	43.0	572	53183	123.18	ug/L	86
36)	Tetrachloroethene	164.0	580	49343	117.97	ug/L	93
37)	1,1,2,2-Tetrachloroethane	83.0	577	101371	113.67	ug/L	71
[illegible]	Toluene	92.0	614	93227	111.01	ug/L	98
[illegible]	Chlorobenzene	112.0	643	116711	107.75	ug/L	96
40)	Ethylbenzene	106.0	694	54420	108.61	ug/L	98
41)	Styrene	104.0	798	119766	103.02	ug/L	96
42)	Xylene (Total)	106.0	831	198623M	313.86	ug/L	98
43)	m-Xylene	106.0	806	67233	104.06	ug/L	[illegible]
44)	o + p-Xylenes	106.0	831	131361	209.98	ug/L	100

000069

	Compound	Q ion	Scan#	Area	Conc	Units	q
45)	BROMOFLUOROBENZENE (SURR)	95.0	759	106527	118.05	ug/L	82
46)	TOLUENE-d8 (SURR)	98.0	609	141765	110.87	ug/L	87
47)	1,3 Dichlorobenzene	146.0	926	103418	106.27	ug/L	100
48)	1,2 Dichlorobenzene	146.0	954	95494M	104.68	ug/L	100
49)	1,4 Dichlorobenzene	146.0	971	106495M	103.56	ug/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CD009::C1 Quant Output File: ^CD009::OU
Name: 0327VSTD150 C1
Misc: GC/MS C,JJF,5ul ISC4,15ul SSC4,V01C4,V02C4/5mls

Id File: IDVCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

Operator ID: ZIPPY
Quant Time: 930402 20:50
Injected at: 930402 20:09

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930402 20:50
Output File: ^CD009::OU Injected at: 930402 20:09
Data File: >CD009::C1 Dilution Factor: 1.00000
Name: 0327VSTD150 C1
Misc: GC/MS C,JJF,5ul ISC4,15ul SSC4,V01C4,V02C4/5mls

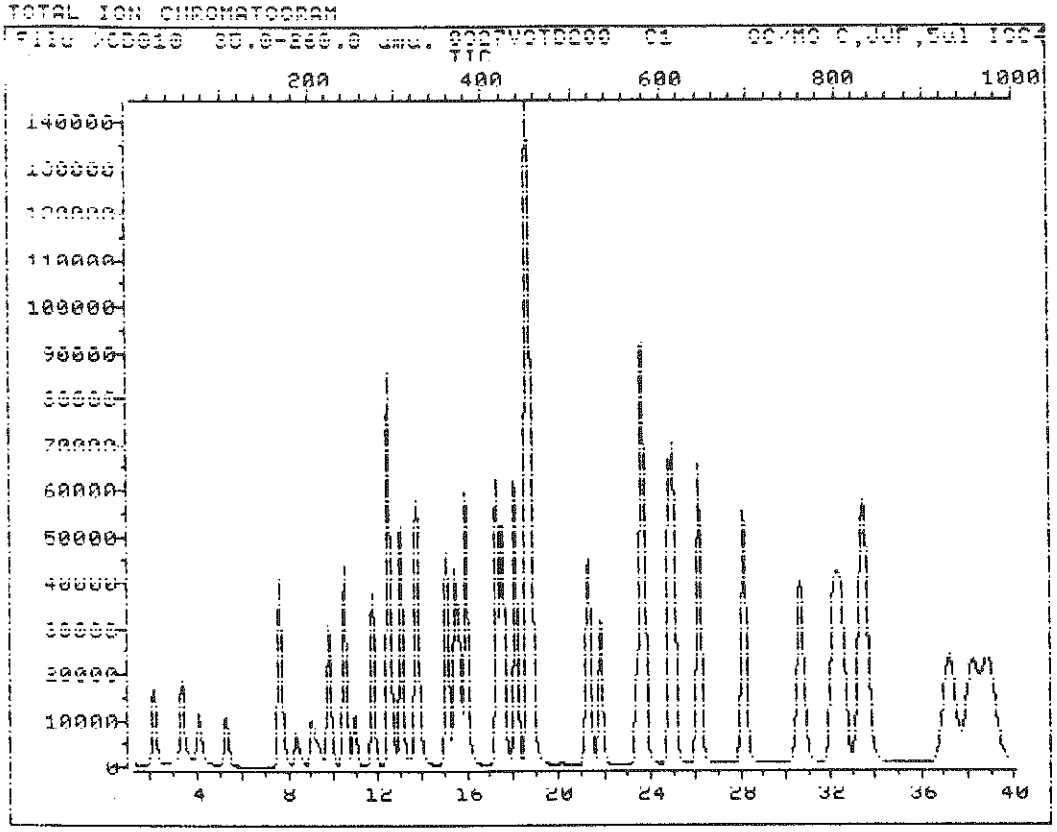
ID File: IDVCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	250	16195	50.00	ug/L	86
2)	Chloromethane	50.0	24	96564	310.37	ug/L	93
3)	Bromomethane	94.0	53	68009	173.79	ug/L	86
4)	Vinyl Chloride	62.0	73	74167	228.64	ug/L	95
5)	Chloroethane	64.0	104	49629	199.58	ug/L	97
6)	Methylene Chloride	84.0	164	88195	198.99	ug/L	90
7)	Acetone	43.0	182	21779	141.34	ug/L	85
8)	Acrylonitrile	53.0	201	42055	185.68	ug/L	100
9)	Acrolein	56.0	183	20922M	59737.95	ug/L	
10)	Trichlorofluoromethane	101.0	221	125814	290.52	ug/L	100
11)	Carbon Disulfide	76.0	208	36052	18.90	ug/L	100
12)	1,1-Dichloroethene	96.0	240	76520	223.46	ug/L	71
13)	1,1-Dichloroethane	63.0	272	175816	347.01	ug/L	94
14)	1,2-Dichloroethene (Total)	96.0	290	164756	191.98	ug/L	88
15)	Chloroform	83.0	305	178685	278.68	ug/L	95
16)	1,2-Dichloroethane	62.0	324	117185	201.25	ug/L	98
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	321	102735	200.92	ug/L	95
18)	2-Butanone	72.0	323	6365	125.20	ug/L	92
19)	*1,4-Difluorobenzene	114.0	514	61317	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	356	132963	177.94	ug/L	77
21)	Carbon Tetrachloride	117.0	367	113858	163.56	ug/L	89
22)	Vinyl Acetate	43.0	371	198046	162.06	ug/L	70
23)	Bromodichloromethane	83.0	379	180547	181.62	ug/L	94
24)	1,2-Dichloropropane	63.0	414	118711	228.35	ug/L	94
25)	trans-1,3-Dichloropropene	75.0	421	153399	179.42	ug/L	94
26)	Trichloroethene	130.0	435	101506	194.89	ug/L	93
27)	Dibromochloromethane	129.0	450	152745	168.98	ug/L	97
28)	1,1,2-Trichloroethane	97.0	453	92840	195.12	ug/L	94
29)	Benzene	78.0	449	238074	222.04	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	453	123920	180.26	ug/L	100
32)	Bromoform	173.0	518	100979	151.41	ug/L	98
33)	*Chlorobenzene-d5	117.0	640	35049	50.00	ug/L	96
34)	4-Methyl-2-Pentanone	43.0	532	116210	173.56	ug/L	86
35)	2-Hexanone	43.0	571	74194	165.65	ug/L	85
36)	Tetrachloroethene	164.0	580	79860	274.77	ug/L	97
37)	1,1,2,2-Tetrachloroethane	83.0	577	153857	252.30	ug/L	73
38)	Toluene	92.0	614	147273	332.17	ug/L	98
39)	Chlorobenzene	112.0	642	189041	308.31	ug/L	96
40)	Ethylbenzene	106.0	694	86493	344.70	ug/L	96
41)	Styrene	104.0	798	191451	361.64	ug/L	96
42)	Xylene (Total)	106.0	832	316300M	1002.02	ug/L	99
43)	m-Xylene	106.0	806	107551	334.65	ug/L	100
44)	o + p-Xylenes	106.0	832	210164	674.97	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
35)	BROMOFLUOROBENZENE (SURR)	95.0	759	158978	281.70	ug/L	84
48)	TOLUENE-d8 (SURR)	98.0	609	210224	299.47	ug/L	90
47)	1,3 Dichlorobenzene	146.0	928	163533M	306.74	ug/L	100
48)	1,2 Dichlorobenzene	146.0	953	160237M	305.45	ug/L	100
49)	1,4 Dichlorobenzene	146.0	971	168067M	307.13	ug/L	

+ Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CD010::C1 Quant Output File: ^CD010::OU
Name: 0327VSTD200 C1
Misc: GC/MS C,JJF,5ul ISC4,20ul SSC4,V01C4,V02C4/5mls

Id File: I9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

Operator ID: ZIPPY
Quant Time: 930402 21:40
Injected at: 930402 20:56

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930402 21:40
Output File: ^CD010::OU Injected at: 930402 20:56
Data File: >CD010::C1 Dilution Factor: 1.00000
Name: 0327VSTD200 C1
Misc: GC/MS C,JJF,5ul ISC4,20ul SSC4,V01C4,V02C4/5mls

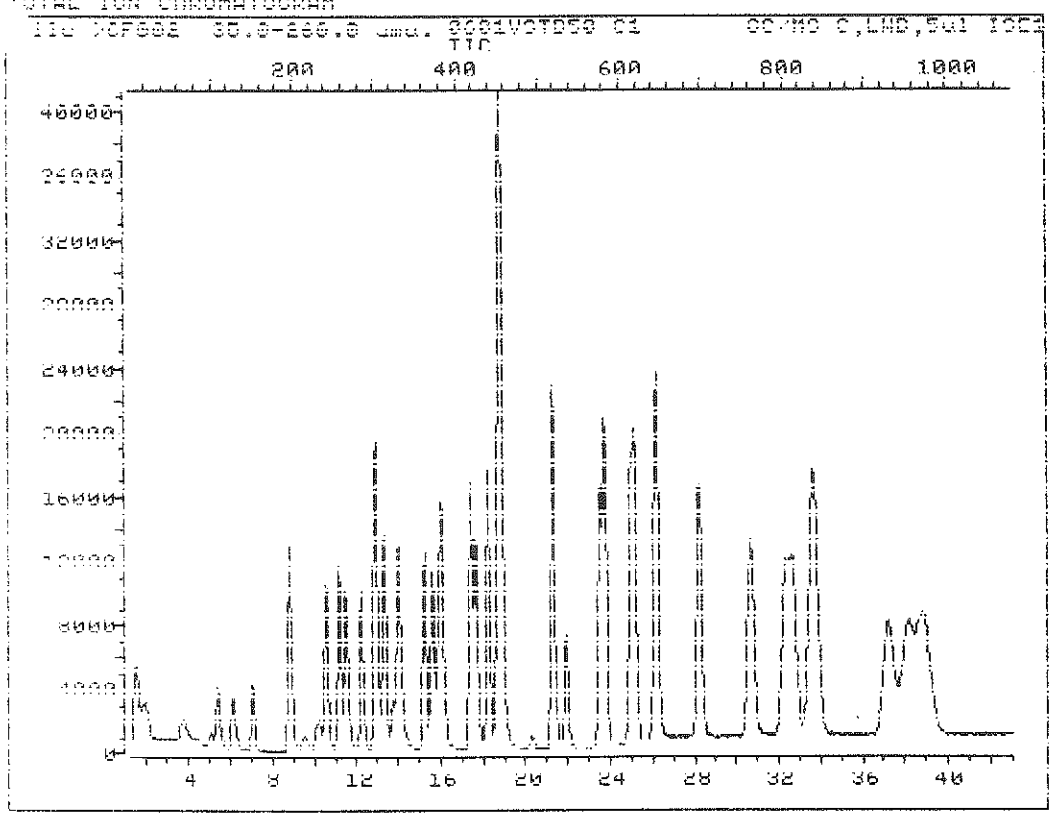
ID File: I9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930402 19:15

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	249	16241	50.00	ug/L	86
2)	Chloromethane	50.0	23	131216	213.19	ug/L	93
3)	Bromomethane	94.0	53	88995	182.89	ug/L	89
4)	Vinyl Chloride	62.0	72	100850	210.14	ug/L	95
5)	Chloroethane	64.0	103	66855	207.10	ug/L	96
6)	Methylene Chloride	84.0	164	115371	215.21	ug/L	88
7)	Acetone	43.0	182	30959	211.63	ug/L	84
8)	Acrylonitrile	53.0	200	62418	536.62	ug/L	100
9)	Acrolein	56.0	182	30868	756.89	ug/L	1
10)	Trichlorofluoromethane	101.0	220	167900	198.33	ug/L	100
11)	Carbon Disulfide	76.0	207	46128	32.14	ug/L	86
12)	1,1-Dichloroethene	96.0	238	99647	233.20	ug/L	72
13)	1,1-Dichloroethane	63.0	270	231250	224.31	ug/L	94
14)	1,2-Dichloroethene (Total)	96.0	289	213325	429.22	ug/L	88
15)	Chloroform	83.0	304	229657	219.65	ug/L	96
16)	1,2-Dichloroethane	62.0	323	155658	207.29	ug/L	97
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	320	135937	202.10	ug/L	96
18)	2-Butanone	72.0	322	9815	45.07	ug/L	93
19)	*1,4-Difluorobenzene	114.0	513	59143	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	355	169152	223.33	ug/L	79
21)	Carbon Tetrachloride	117.0	366	146392	225.27	ug/L	87
22)	Vinyl Acetate	43.0	370	294667	87919.81	ug/L	70
23)	Bromodichloromethane	83.0	378	233408	233.77	ug/L	93
24)	1,2-Dichloropropane	63.0	413	154141	241.42	ug/L	93
25)	trans-1,3-Dichloropropene	75.0	420	195998	237.58	ug/L	95
26)	Trichloroethene	130.0	434	124794	238.07	ug/L	89
27)	Dibromochloromethane	129.0	449	198843	252.16	ug/L	99
28)	1,1,2-Trichloroethane	97.0	452	121621	238.52	ug/L	93
29)	Benzene	78.0	448	300713	235.09	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	452	163658	226.00	ug/L	100
32)	Bromoform	173.0	517	139320	294.79	ug/L	98
33)	*Chlorobenzene-d5	117.0	638	32552	50.00	ug/L	97
34)	4-Methyl-2-Pentanone	43.0	530	172135	294.16	ug/L	86
35)	2-Hexanone	43.0	570	114693	296.85	ug/L	85
36)	Tetrachloroethene	164.0	578	95280	254.56	ug/L	95
37)	1,1,2,2-Tetrachloroethane	83.0	576	215274	269.76	ug/L	73
38)	Toluene	92.0	613	180520	240.20	ug/L	99
[illegible]	Chlorobenzene	112.0	641	227194	234.38	ug/L	94
40)	Ethylbenzene	106.0	693	103826	231.56	ug/L	97
41)	Styrene	104.0	796	229840	220.93	ug/L	98
42)	Xylene (Total)	106.0	831	377928M	667.35	ug/L	98
43)	m-Xylene	106.0	804	129264	223.57	ug/L	100
44)	o + p-Xylenes	106.0	831	247148	441.47	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
45)	BROMOFLUOROBENZENE (SURR)	95.0	758	185968	230.29	ug/L	83
46)	TOLUENE-d8 (SURR)	98.0	608	257787	225.29	ug/L	90
47)	1,3 Dichlorobenzene	146.0	926	196488	225.62	ug/L	100
48)	1,2 Dichlorobenzene	146.0	953	181646M	222.51	ug/L	100
49)	1,4 Dichlorobenzene	146.0	968	209366M	227.51	ug/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CF002::C1 Quant Output File: ^CF002::OU
Name: 0601VSTD50 C1
Misc: GC/MS C,LWB,5ul ISE1,SSE1,V01E3,V02E1/5ml

Id File: T90CD1::TC
Title: HSL VOLATILES
Last Calibration: 930526 15:01

Operator ID: LEE
Quant Time: 930601 10:05
Injected at: 930601 09:21

QUANT REPORT

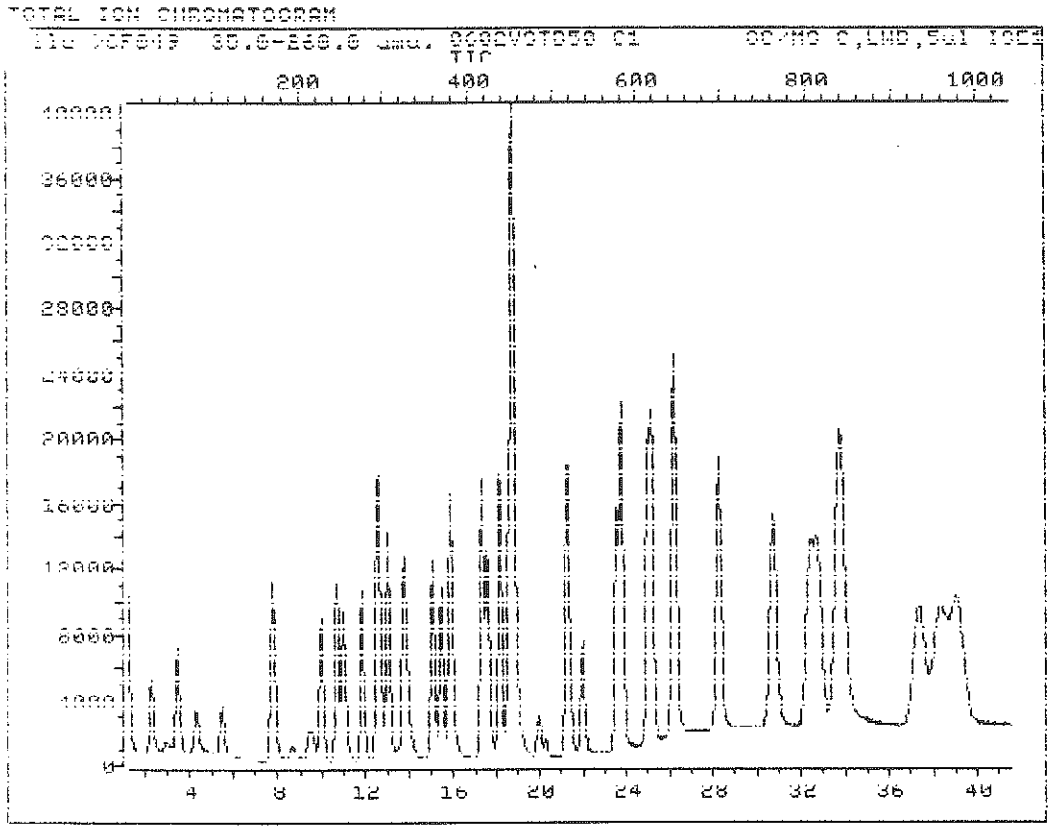
Operator ID: LEE Quant Rev: 6 Quant Time: 930601 10:05
Output File: ^CF002::OU Injected at: 930601 09:21
Data File: >CF002::C1 Dilution Factor: 1.00000
Name: 0601VSTD50 C1
Misc: GC/MS C,LWB,5ul ISE1,SSE1,VO1E3,VO2E1/5ml

ID File: I9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930526 15:01

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	264	15952	50.00	ug/L	86
2)	Chloromethane	50.0	64	17511	25.39	ug/L	95
3)	Bromomethane	94.0	107	20293	40.08	ug/L	90
4)	Vinyl Chloride	62.0	126	29208	56.32	ug/L	95
5)	Chloroethane	64.0	149	22226	63.53	ug/L	93
6)	Methylene Chloride	84.0	195	32196	53.44	ug/L	92
7)	Acetone	43.0	211	7255M	39.78	ug/L	
8)	Acrylonitrile	53.0	228	12631	32.79	ug/L	100
9)	Acrolein	56.0	214	4870	63.72	ug/L	1
10)	Trichlorofluoromethane	101.0	240	48871	58.77	ug/L	100
11)	Carbon Disulfide	76.0	232	10762	42.27	ug/L	87
12)	1,1-Dichloroethene	96.0	256	24851	49.52	ug/L	72
13)	1,1-Dichloroethane	63.0	283	60025	52.69	ug/L	95
14)	1,2-Dichloroethene (Total)	96.0	301	56580	105.51	ug/L	89
15)	Chloroform	83.0	311	60571	53.49	ug/L	92
16)	1,2-Dichloroethane	62.0	331	39063	52.91	ug/L	97
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	328	32704	50.23	ug/L	90
18)	2-Butanone	72.0	333	1881	45.05	ug/L	96
19)	*1,4-Difluorobenzene	114.0	517	64020	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	361	42723	48.62	ug/L	73
21)	Carbon Tetrachloride	117.0	371	38044	51.38	ug/L	91
22)	Vinyl Acetate	43.0	377	66507	52.41	ug/L	72
23)	Bromodichloromethane	83.0	381	59013	50.03	ug/L	93
24)	1,2-Dichloropropane	63.0	412	41106	50.36	ug/L	94
25)	trans-1,3-Dichloropropene	75.0	423	51441	52.39	ug/L	95
26)	Trichloroethene	130.0	438	35195	50.14	ug/L	91
27)	Dibromochloromethane	129.0	449	52229	53.53	ug/L	99
28)	1,1,2-Trichloroethane	97.0	453	33647	52.49	ug/L	96
29)	Benzene	78.0	453	83876	51.24	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	455	43662	57.51	ug/L	100
32)	Bromoform	173.0	516	33541	52.27	ug/L	97
33)	*Chlorobenzene-d5	117.0	641	39433	50.00	ug/L	94
34)	4-Methyl-2-Pentanone	43.0	534	39256	42.35	ug/L	88
35)	2-Hexanone	43.0	574	26219	44.36	ug/L	87
36)	Tetrachloroethene	164.0	580	30317	50.85	ug/L	95
37)	1,1,2,2-Tetrachloroethane	83.0	575	55880M	47.68	ug/L	
3	Toluene	92.0	616	50731	45.53	ug/L	99
39)	Chlorobenzene	112.0	644	68992	49.20	ug/L	95
40)	Ethylbenzene	106.0	696	30056	46.53	ug/L	98
41)	Styrene	104.0	800	67071	48.33	ug/L	93
42)	Xylene (Total)	106.0	836	111663M	141.87	ug/L	89
43)	m-Xylene	106.0	811	37869	47.21	ug/L	100
44)	o + p-Xylenes	106.0	836	73700	94.70	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
45)	BROMOFLUOROBENZENE (SURR)	95.0	759	59395	50.52	ug/L	82
46)	TOLUENE-d8 (SURR)	98.0	612	70028	44.29	ug/L	89
47)	1,3 Dichlorobenzene	146.0	929	62458	50.60	ug/L	100
48)	1,2 Dichlorobenzene	146.0	952	58156M	50.39	ug/L	100
49)	1,4 Dichlorobenzene	146.0	971	66129M	50.23	ug/L	100

* Compound is ISTD



Data File: >CF049::C1 Quant Output File: ^CF049::OU
Name: 06020STD50 C1
Misc: GC/MS C,LWB,5ul ISE1,SSE1,V01E3,V02E1/5ml

IA File: I90CD1::IC
Title: HSL VOLATILES
Last Calibration: 930602 10:28

Operator ID: LEE
Quant Time: 930603 10:01
Injected at: 930603 09:15

QUANT REPORT

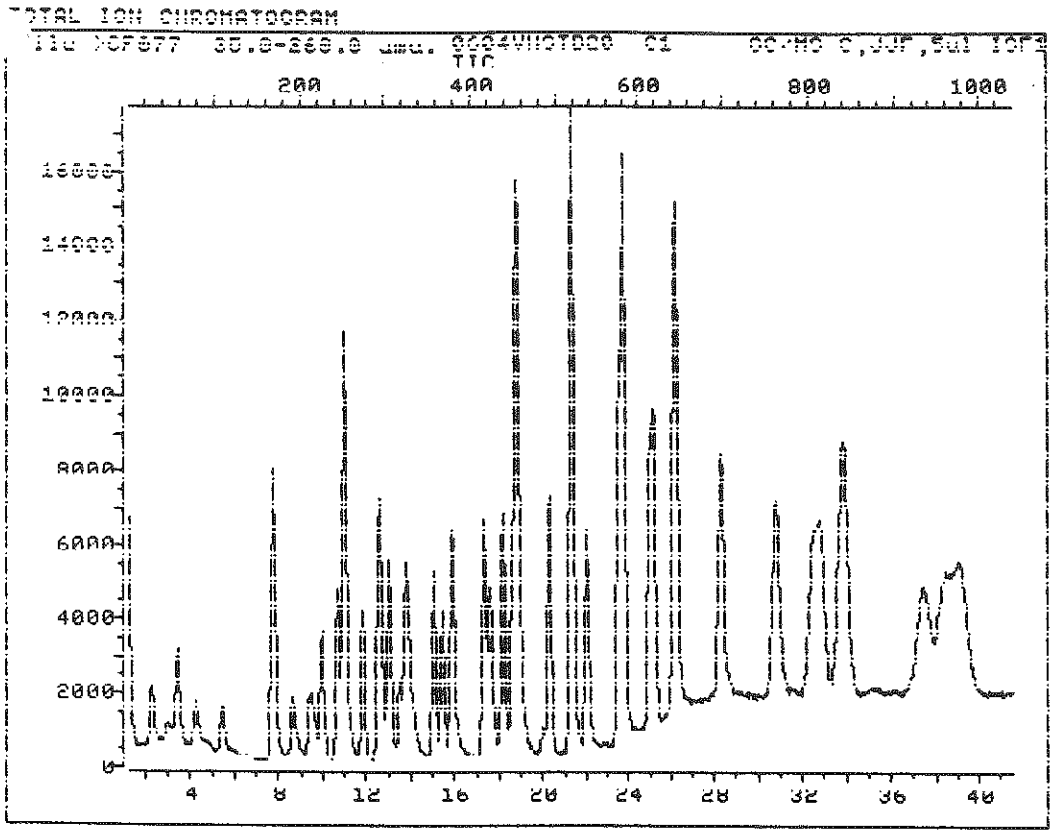
Operator ID: LEE Quant Rev: 6 Quant Time: 930603 10:01
Output File: ^CF049::OU Injected at: 930603 09:15
Data File: >CF049::C1 Dilution Factor: 1.00000
Name: 0602VSTD50 C1
Misc: GC/MS C,LWB,5ul ISE1,SSE1,VO1E3,VO2E1/5ml

ID File: T9VCD1::IC
Title: HSL VOLATILES
Last Calibration: 930602 10:28

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	14446	50.00	ug/L	83
2)	Chloromethane	50.0	26	36250	58.04	ug/L	93
3)	Bromomethane	94.0	56	29741M	64.87	ug/L	
4)	Vinyl Chloride	62.0	78	27543	58.64	ug/L	98
5)	Chloroethane	64.0	109	20394	64.37	ug/L	95
6)	Methylene Chloride	84.0	168	32951	60.39	ug/L	90
7)	Acetone	43.0	190	7866	47.63	ug/L	86
8)	Acrylonitrile	53.0	209	13632	110.58	ug/L	100
9)	Acrolein	56.0	194	3988M	57.62	ug/L	
10)	Trichlorofluoromethane	101.0	225	46773	62.11	ug/L	100
11)	Carbon Disulfide	76.0	214	11248	48.78	ug/L	88
12)	1,1-Dichloroethene	96.0	243	25381	55.85	ug/L	71
13)	1,1-Dichloroethane	63.0	273	63501	61.56	ug/L	94
14)	1,2-Dichloroethene (Total)	96.0	293	57002	117.38	ug/L	86
15)	Chloroform	83.0	304	62235	60.69	ug/L	93
16)	1,2-Dichloroethane	62.0	325	41220	61.65	ug/L	96
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	322	33627	57.03	ug/L	95
18)	2-Butanone	72.0	330	2001	52.92	ug/L	94
19)	*1,4-Difluorobenzene	114.0	512	59155	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	357	42462	52.30	ug/L	78
21)	Carbon Tetrachloride	117.0	366	35909	52.48	ug/L	85
22)	Vinyl Acetate	43.0	375	48086	41.01	ug/L	71
23)	Bromodichloromethane	83.0	378	60124	55.16	ug/L	89
24)	1,2-Dichloropropane	63.0	415	43274	57.37	ug/L	95
25)	trans-1,3-Dichloropropene	75.0	421	51668	56.95	ug/L	95
26)	Trichloroethene	130.0	436	36279	55.94	ug/L	92
27)	Dibromochloromethane	129.0	447	50104	55.58	ug/L	99
28)	1,1,2-Trichloroethane	97.0	451	32746	55.28	ug/L	93
29)	Benzene	78.0	452	86994	57.51	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	454	40469	57.69	ug/L	100
31)	2-Chloroethylvinylether	63.0	482	7786	155.56	ug/L	96
32)	Bromoform	173.0	515	28909	48.75	ug/L	96
33)	*Chlorobenzene-d5	117.0	641	37418	50.00	ug/L	94
34)	4-Methyl-2-Pentanone	43.0	535	39338	44.72	ug/L	84
35)	2-Hexanone	43.0	575	25913	46.21	ug/L	87
36)	Tetrachloroethene	164.0	580	31818	56.24	ug/L	96
	1,1,2,2-Tetrachloroethane	83.0	574	49252M	44.29	ug/L	
38)	Toluene	92.0	617	52530	49.68	ug/L	99
39)	Chlorobenzene	112.0	644	70466	52.96	ug/L	94
40)	Ethylbenzene	106.0	696	30773	50.21	ug/L	98
41)	Styrene	104.0	804	68103	51.72	ug/L	99
42)	Xylene (Total)	106.0	839	113954M	152.58	ug/L	99
43)	m-Xylene	106.0	813	38827	51.01	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	o + p-Xylenes	106.0	839	75302	101.97	ug/L	100
45)	BROMOFLUOROBENZENE (SURR)	95.0	761	61911	55.49	ug/L	83
46)	TOLUENE-d8 (SURR)	98.0	612	72304	48.20	ug/L	91
47)	1,3 Dichlorobenzene	146.0	931	61403	52.43	ug/L	100
48)	1,2 Dichlorobenzene	146.0	956	64340M	58.75	ug/L	100
49)	1,4 Dichlorobenzene	146.0	974	67065M	53.69	ug/L	

* Compound is ISTD



Data File: >CF077::C1 Quant Output File: ^CF077::OU
Name: 0604VHSTD20 C1
Misc: GC/MS C,JJF,5ul ISF1,5ul SSF1,VO1F1,VO2F1/5ml

Id File: I9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

Operator ID: ZIPPY
Quant Time: 930604 21:23
Injected at: 930604 19:57

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930604 21:23
Output File: ^CF077::OU Injected at: 930604 19:57
Data File: >CF077::C1 Dilution Factor: 1.00000
Name: 0604OHSTD20 C1
Misc: GC/MS C,JJF,5ul ISF1,5ul SSF1,VO1F1,VO2F1/5ml

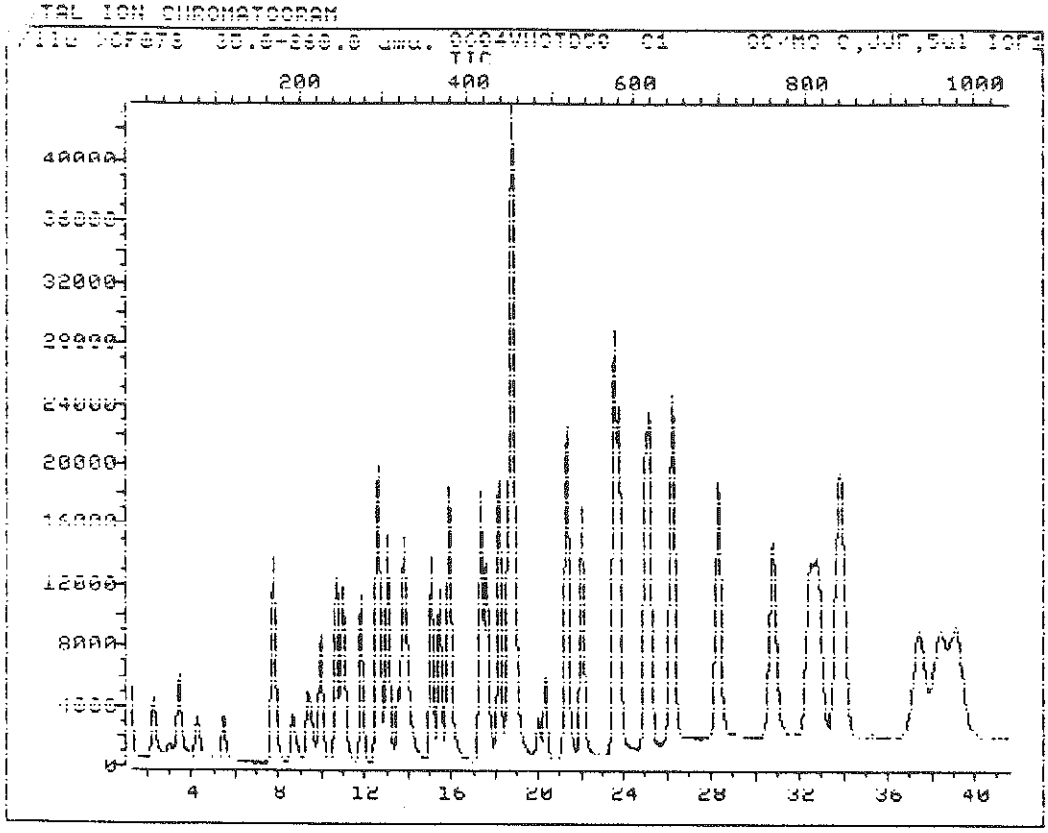
ID File: I9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	19140	50.00	ug/L	84
2)	Chloromethane	50.0	26	13497	16.84	ug/L	95
3)	Bromomethane	94.0	56	10327	16.81	ug/L	84
4)	Vinyl Chloride	62.0	77	10058	16.47	ug/L	92
5)	Chloroethane	64.0	108	7629	17.47	ug/L	98
6)	Methylene Chloride	84.0	168	23219	26.71	ug/L	89
7)	Acetone	43.0	190	17625	49.50	ug/L	86
8)	Acrylonitrile	53.0	210	12555	50.80	ug/L	100
9)	Acrolein	56.0	196	3065	34.90	ug/L	1
10)	Trichlorofluoromethane	101.0	225	18046	16.38	ug/L	100
11)	Carbon Disulfide	76.0	214	8978	20.99	ug/L	87
12)	1,1-Dichloroethene	96.0	244	10638	17.37	ug/L	71
13)	1,1-Dichloroethane	63.0	273	25667	18.21	ug/L	93
14)	1,2-Dichloroethene (Total)	96.0	293	23286	36.77	ug/L	88
15)	Chloroform	83.0	304	25328	18.21	ug/L	96
16)	1,2-Dichloroethane	62.0	325	16925	17.88	ug/L	98
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	323	16040	19.28	ug/L	95
18)	2-Butanone	72.0	332	2389	25.08	ug/L	99
19)	*1,4-Difluorobenzene	114.0	518	72152	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	357	17368	17.07	ug/L	81
21)	Carbon Tetrachloride	117.0	367	13868	15.19	ug/L	88
22)	Vinyl Acetate	43.0	376	21872	12.74	ug/L	72
23)	Bromodichloromethane	83.0	378	23075	16.80	ug/L	92
24)	1,2-Dichloropropane	63.0	415	17094	18.51	ug/L	96
25)	trans-1,3-Dichloropropene	75.0	422	19628	17.09	ug/L	95
26)	Trichloroethene	130.0	437	14026	17.90	ug/L	87
27)	Dibromochloromethane	129.0	448	19304	15.91	ug/L	97
28)	1,1,2-Trichloroethane	97.0	453	14914	18.52	ug/L	96
29)	Benzene	78.0	453	34880	18.56	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	455	17018	16.52	ug/L	100
31)	2-Chloroethylvinylether	63.0	484	2377	2.54	ug/L	97
32)	Bromoform	173.0	516	13257	15.90	ug/L	99
33)	*Chlorobenzene-d5	117.0	642	41200	50.00	ug/L	96
34)	4-Methyl-2-Pentanone	43.0	536	36148	22.66	ug/L	86
35)	2-Hexanone	43.0	576	29609	25.30	ug/L	84
3	Tetrachloroethene	164.0	581	21371	32.87	ug/L	99
37)	1,1,2,2-Tetrachloroethane	83.0	575	30330	18.19	ug/L	63
38)	Toluene	92.0	618	21271	18.56	ug/L	99
39)	Chlorobenzene	112.0	645	27470	17.67	ug/L	94
40)	Ethylbenzene	106.0	698	12063	17.67	ug/L	96
41)	Styrene	104.0	805	26409	18.13	ug/L	96
42)	Xylene (Total)	106.0	840	44815M	54.16	ug/L	97
43)	m-Xylene	106.0	815	15177	17.98	ug/L	100

00014

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	o + p-Xylenes	106.0	840	29638	36.23	ug/L	100
45)	BROMOFLUOROBENZENE (SURR)	95.0	762	25254	20.01	ug/L	81
46)	TOLUENE-d8 (SURR)	98.0	613	32824	20.08	ug/L	94
47)	1,3 Dichlorobenzene	146.0	934	22971	18.05	ug/L	100
48)	1,2 Dichlorobenzene	146.0	959	23179M	18.83	ug/L	100
49)	1,4 Dichlorobenzene	146.0	976	24367M	18.41	ug/L	100

* Compound is ISTD



Data File: >CF078::C1 Quant Output File: ^CF078::OU
Name: 0604VHSTD50 C1
Misc: GC/MS C,JJF,5ul ISF1,5ul SSF1,VO1F1,VO2F1/5ml

Id File: I9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

Operator ID: ZIPPY
Quant Time: 930604 21:27
Injected at: 930604 20:45

QUANT REPORT

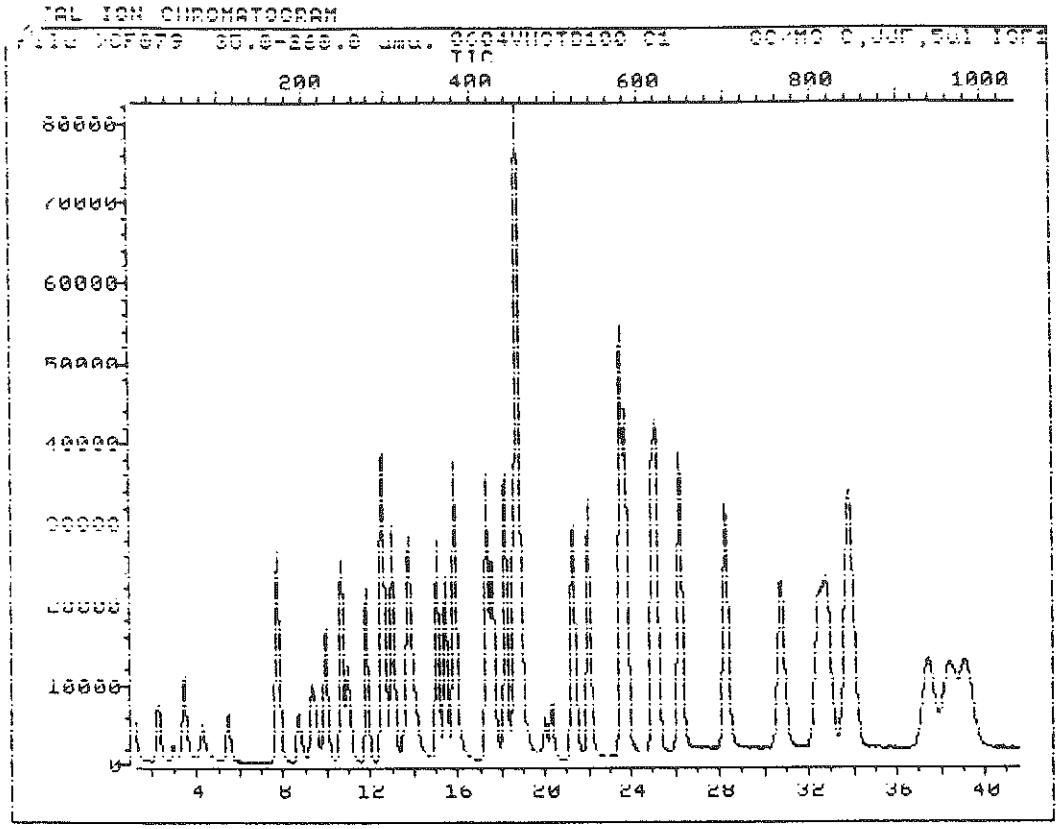
Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930604 21:27
Output File: ^CF078::OU Injected at: 930604 20:45
Data File: >CF078::C1 Dilution Factor: 1.00000
Name: 0604UHSTD50 C1
Misc: GC/MS C,JJF,5ul ISF1,5ul SSF1,VO1F1,VO2F1/5ml

ID File: I9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	18679	50.00	ug/L	83
2)	Chloromethane	50.0	26	32447	41.48	ug/L	93
3)	Bromomethane	94.0	56	23548	39.28	ug/L	89
4)	Vinyl Chloride	62.0	77	25545	42.85	ug/L	97
5)	Chloroethane	64.0	109	18963	44.51	ug/L	95
6)	Methylene Chloride	84.0	168	40434	47.66	ug/L	88
7)	Acetone	43.0	191	29570	85.09	ug/L	87
8)	Acrylonitrile	53.0	209	34026	141.06	ug/L	100
9)	Acrolein	56.0	194	7686	89.69	ug/L	3
10)	Trichlorofluoromethane	101.0	225	44958	41.82	ug/L	100
11)	Carbon Disulfide	76.0	213	17387	41.66	ug/L	87
12)	1,1-Dichloroethene	96.0	243	28835	48.24	ug/L	72
13)	1,1-Dichloroethane	63.0	273	69467	50.51	ug/L	93
14)	1,2-Dichloroethene (Total)	96.0	293	62289	100.80	ug/L	84
15)	Chloroform	83.0	304	67882	50.02	ug/L	94
16)	1,2-Dichloroethane	62.0	325	46390	50.22	ug/L	98
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	323	41570	51.20	ug/L	98
18)	2-Butanone	72.0	330	6644	71.46	ug/L	92
19)	*1,4-Difluorobenzene	114.0	518	71125	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	357	47952	47.82	ug/L	80
21)	Carbon Tetrachloride	117.0	367	39192	43.55	ug/L	85
22)	Vinyl Acetate	43.0	376	66762	39.46	ug/L	72
23)	Bromodichloromethane	83.0	378	65057	48.05	ug/L	92
24)	1,2-Dichloropropane	63.0	415	46992	51.63	ug/L	94
25)	trans-1,3-Dichloropropene	75.0	422	55996	49.46	ug/L	96
26)	Trichloroethene	130.0	437	38570	49.93	ug/L	93
27)	Dibromochloromethane	129.0	448	56240	47.01	ug/L	98
28)	1,1,2-Trichloroethane	97.0	452	38124	48.04	ug/L	92
29)	Benzene	78.0	453	92890	50.14	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	455	46389	45.67	ug/L	100
31)	2-Chloroethylvinylether	63.0	483	8841	9.58	ug/L	97
32)	Bromoform	173.0	516	39464	48.02	ug/L	96
33)	*Chlorobenzene-d5	117.0	642	38997	50.00	ug/L	96
34)	4-Methyl-2-Pentanone	43.0	536	101510	67.22	ug/L	85
35)	2-Hexanone	43.0	576	80699	72.85	ug/L	84
3	Tetrachloroethene	164.0	581	30393	49.38	ug/L	98
37)	1,1,2,2-Tetrachloroethane	83.0	575	79784	50.55	ug/L	62
38)	Toluene	92.0	618	56783	52.34	ug/L	98
39)	Chlorobenzene	112.0	645	71114	48.33	ug/L	98
40)	Ethylbenzene	106.0	698	31502	48.74	ug/L	89
41)	Styrene	104.0	805	68682	49.82	ug/L	96
42)	Xylene (Total)	106.0	840	116553M	148.82	ug/L	99
43)	m-Xylene	106.0	814	39422	49.35	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	o + p-Xylenes	106.0	840	77021	99.46	ug/L	100
45)	BROMOFLUOROBENZENE (SURR)	95.0	762	61075	51.11	ug/L	86
46)	TOLUENE-d8 (SURR)	98.0	613	83973	54.27	ug/L	92
47)	1,3 Dichlorobenzene	146.0	933	57490M	47.73	ug/L	100
48)	1,2 Dichlorobenzene	146.0	958	54599M	46.85	ug/L	100
49)	1,4 Dichlorobenzene	146.0	976	64637M	51.61	ug/L	100

* Compound is ISTD



Data File: >CF079::C1 Quant Output File: ^CF079::OU
Name: 0604UHSTD100 C1
Misc: GC/MS C,JJF,5ul ISF1,10ul SSF1,UO1F1,UO2F1/5ml

Id File: I9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

Operator ID: ZIPPY
Quant Time: 930604 22:15
Injected at: 930604 21:33

QUANT REPORT

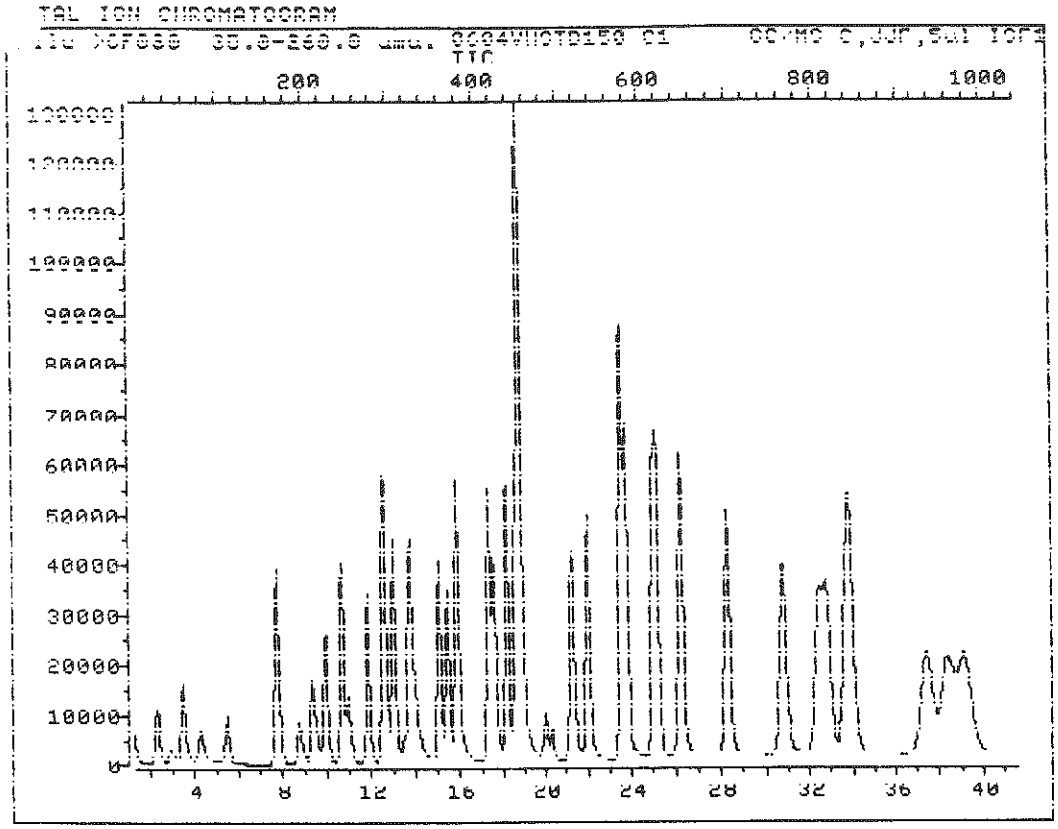
Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930604 22:15
Output File: ^CF079::OU Injected at: 930604 21:33
Data File: >CF079::C1 Dilution Factor: 1.00000
Name: 0604UHSTD100 C1
Misc: GC/MS C,JJF,5ul ISF1,10ul SSF1,VO1F1,VO2F1/5ml

ID File: T9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	18833	50.00	ug/L	82
2)	Chloromethane	50.0	26	64700	82.04	ug/L	94
3)	Bromomethane	94.0	56	48004	79.43	ug/L	91
4)	Vinyl Chloride	62.0	77	41442	68.85	ug/L	94
5)	Chloroethane	64.0	109	38257	89.06	ug/L	96
6)	Methylene Chloride	84.0	167	75794	88.60	ug/L	90
7)	Acetone	43.0	191	47355	135.16	ug/L	85
8)	Acrylonitrile	53.0	208	69700	286.59	ug/L	100
9)	Acrolein	56.0	193	17866M	206.77	ug/L	
10)	Trichlorofluoromethane	101.0	225	90273	83.28	ug/L	100
11)	Carbon Disulfide	76.0	212	30046	71.40	ug/L	87
12)	1,1-Dichloroethene	96.0	243	57096	94.74	ug/L	71
13)	1,1-Dichloroethane	63.0	273	135845	97.96	ug/L	94
14)	1,2-Dichloroethene (Total)	96.0	293	124234	199.39	ug/L	88
15)	Chloroform	83.0	304	134259	98.13	ug/L	93
16)	1,2-Dichloroethane	62.0	325	91195	97.92	ug/L	98
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	322	78380	95.75	ug/L	96
18)	2-Butanone	72.0	330	12996	138.65	ug/L	93
19)	*1,4-Difluorobenzene	114.0	518	71212	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	357	95794	95.41	ug/L	78
21)	Carbon Tetrachloride	117.0	367	79991	88.78	ug/L	84
22)	Vinyl Acetate	43.0	376	138826	81.96	ug/L	71
23)	Bromodichloromethane	83.0	378	124279	91.68	ug/L	94
24)	1,2-Dichloropropane	63.0	415	92309	101.29	ug/L	92
25)	trans-1,3-Dichloropropene	75.0	422	106695	94.14	ug/L	95
26)	Trichloroethene	130.0	437	73922	95.58	ug/L	91
27)	Dibromochloromethane	129.0	447	107253	89.54	ug/L	99
28)	1,1,2-Trichloroethane	97.0	452	72415	91.13	ug/L	93
29)	Benzene	78.0	453	181632	97.92	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	454	86428	84.98	ug/L	100
31)	2-Chloroethylvinylether	63.0	484	15762	17.06	ug/L	92
32)	Bromoform	173.0	516	75965	92.31	ug/L	94
33)	*Chlorobenzene-d5	117.0	642	36295	50.00	ug/L	96
34)	4-Methyl-2-Pentanone	43.0	536	196346	139.71	ug/L	83
35)	2-Hexanone	43.0	576	153698	149.07	ug/L	85
3[illegible]	Tetrachloroethene	164.0	581	58535	102.19	ug/L	96
37)	1,1,2,2-Tetrachloroethane	83.0	574	149451M	101.75	ug/L	
38)	Toluene	92.0	618	108390	107.35	ug/L	98
39)	Chlorobenzene	112.0	645	128719	93.99	ug/L	95
40)	Ethylbenzene	106.0	697	58671	97.54	ug/L	98
41)	Styrene	104.0	805	118520	92.38	ug/L	99
42)	Xylene (Total)	106.0	840	214833M	294.73	ug/L	99
43)	m-Xylene	106.0	814	73379	98.69	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	o + p-Xylenes	106.0	840	140275	194.62	ug/L	100
45)	BROMOFLUOROBENZENE (SURR)	95.0	762	99433	89.41	ug/L	84
46)	TOLUENE-d8 (SURR)	98.0	613	152594	105.96	ug/L	94
47)	1,3 Dichlorobenzene	146.0	933	95291	85.01	ug/L	100
48)	1,2 Dichlorobenzene	146.0	959	93306M	86.02	ug/L	100
49)	1,4 Dichlorobenzene	146.0	977	99829M	85.64	ug/L	100

* Compound is ISTD



Data File: >CF080::C1 Quant Output File: ^CF080::OU
Name: 0604VHSTD150 C1
Misc: GC/MS C,JJF,5ul ISF1,15ul SSF1,VO1F1,VO2F1/5ml

Id File: IDHCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

Operator ID: ZIPPY
Quant Time: 930604 23:03
Injected at: 930604 22:21

QUANT REPORT

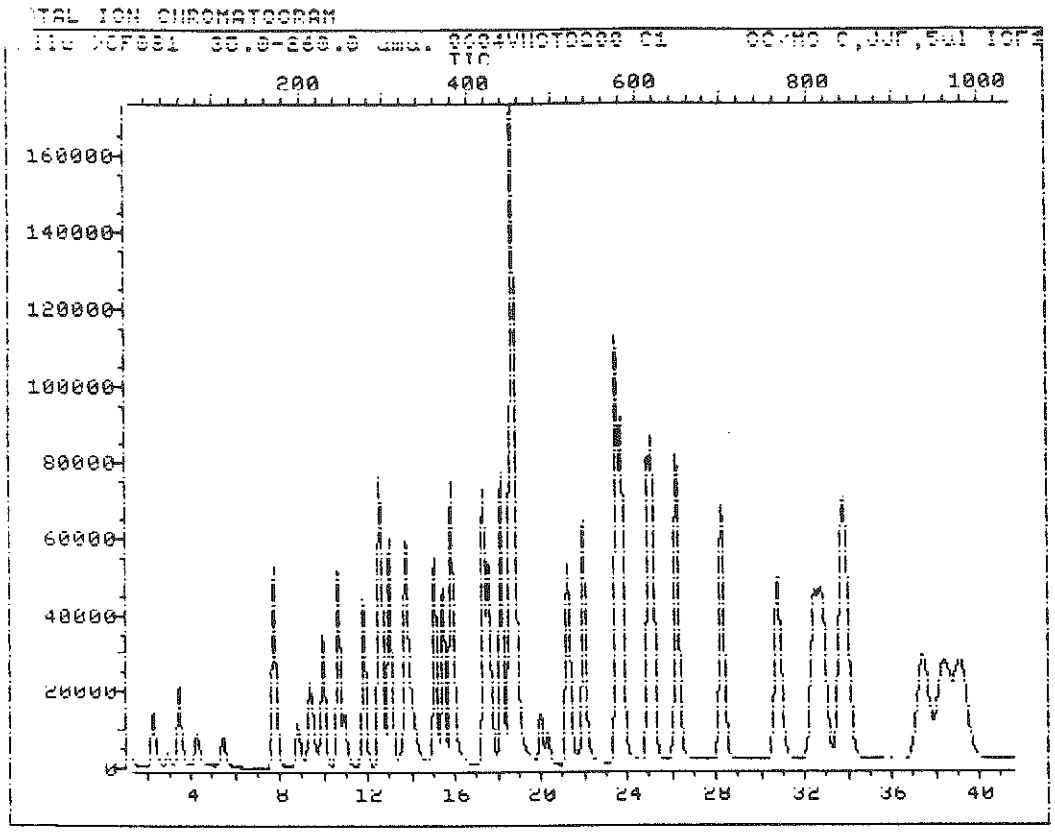
Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930604 23:03
Output File: ^CF080::OU Injected at: 930604 22:21
Data File: >CF080::C1 Dilution Factor: 1.00000
Name: 0604VHSTD150 C1
Misc: GC/MS C,JJF,5ul ISF1,15ul SSF1,VO1F1,VO2F1/5ml

ID File: IDHCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	250	19336	50.00	ug/L	83
2)	Chloromethane	50.0	27	98546	128.00	ug/L	93
3)	Bromomethane	94.0	56	73729	125.43	ug/L	88
4)	Vinyl Chloride	62.0	77	62042	108.80	ug/L	95
5)	Chloroethane	64.0	109	52089	124.29	ug/L	96
6)	Methylene Chloride	84.0	167	107717	142.72	ug/L	90
7)	Acetone	43.0	193	71925	225.28	ug/L	87
8)	Acrylonitrile	53.0	208	107867	436.92	ug/L	100
9)	Acrolein	56.0	194	13831	164.16	ug/L	1
10)	Trichlorofluoromethane	101.0	225	135612	125.89	ug/L	100
11)	Carbon Disulfide	76.0	212	42843	141.33	ug/L	100
12)	1,1-Dichloroethene	96.0	243	85480	140.65	ug/L	71
13)	1,1-Dichloroethane	63.0	273	205205	146.07	ug/L	95
14)	1,2-Dichloroethene (Total)	96.0	292	184819	295.10	ug/L	86
15)	Chloroform	83.0	304	204453	147.52	ug/L	93
16)	1,2-Dichloroethane	62.0	324	139213	147.83	ug/L	98
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	322	121909	147.64	ug/L	98
18)	2-Butanone	72.0	330	20209	210.68	ug/L	91
19)	*1,4-Difluorobenzene	114.0	518	71033	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	356	144581	144.57	ug/L	78
21)	Carbon Tetrachloride	117.0	366	119412	131.69	ug/L	89
22)	Vinyl Acetate	43.0	376	175315	105.52	ug/L	71
23)	Bromodichloromethane	83.0	377	196703	146.25	ug/L	93
24)	1,2-Dichloropropane	63.0	415	141142	156.19	ug/L	94
25)	trans-1,3-Dichloropropene	75.0	421	168462	150.79	ug/L	95
26)	Trichloroethene	130.0	437	113437	149.56	ug/L	90
27)	Dibromochloromethane	129.0	447	180068	150.04	ug/L	97
28)	1,1,2-Trichloroethane	97.0	452	115785	150.88	ug/L	96
29)	Benzene	78.0	452	273267	150.25	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	454	140498	140.37	ug/L	100
31)	2-Chloroethylvinylether	63.0	483	28095	29.89	ug/L	94
32)	Bromoform	173.0	515	133290	158.61	ug/L	97
33)	*Chlorobenzene-d5	117.0	642	40414	50.00	ug/L	94
34)	4-Methyl-2-Pentanone	43.0	536	305024	203.66	ug/L	84
35)	2-Hexanone	43.0	575	238311	216.23	ug/L	85
3	Tetrachloroethene	164.0	580	91787	146.97	ug/L	95
3,	1,1,2,2-Tetrachloroethane	83.0	574	249196	156.61	ug/L	62
38)	Toluene	92.0	617	166007	151.25	ug/L	96
39)	Chlorobenzene	112.0	645	216949	148.50	ug/L	95
40)	Ethylbenzene	106.0	697	93506	144.87	ug/L	97
41)	Styrene	104.0	804	203751	148.82	ug/L	96
42)	Xylene (Total)	106.0	839	344863M	445.42	ug/L	99
43)	m-Xylene	106.0	814	116924	147.93	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	o + p-Xylenes	106.0	839	228195	298.21	ug/L	100
45)	BROMOFLUOROBENZENE (SURR)	95.0	762	179306	152.31	ug/L	84
46)	TOLUENE-d8 (SURR)	98.0	613	244915	156.89	ug/L	92
47)	1,3 Dichlorobenzene	146.0	933	172105	146.31	ug/L	100
48)	1,2 Dichlorobenzene	146.0	958	171671M	148.56	ug/L	100
49)	1,4 Dichlorobenzene	146.0	976	182385M	150.40	ug/L	100

* Compound is ISTD



Data File: >CF081::C1 Quant Output File: ^CF081::OU
Name: 0604VHSTD200 C1
Misc: GC/MS C,JJF,5ul ISF1,20ul SSF1,VO1F1,VO2F1/5ml

Id File: I9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

Operator ID: ZIPPY
Quant Time: 930604 23:51
Injected at: 930604 23:09

QUANT REPORT

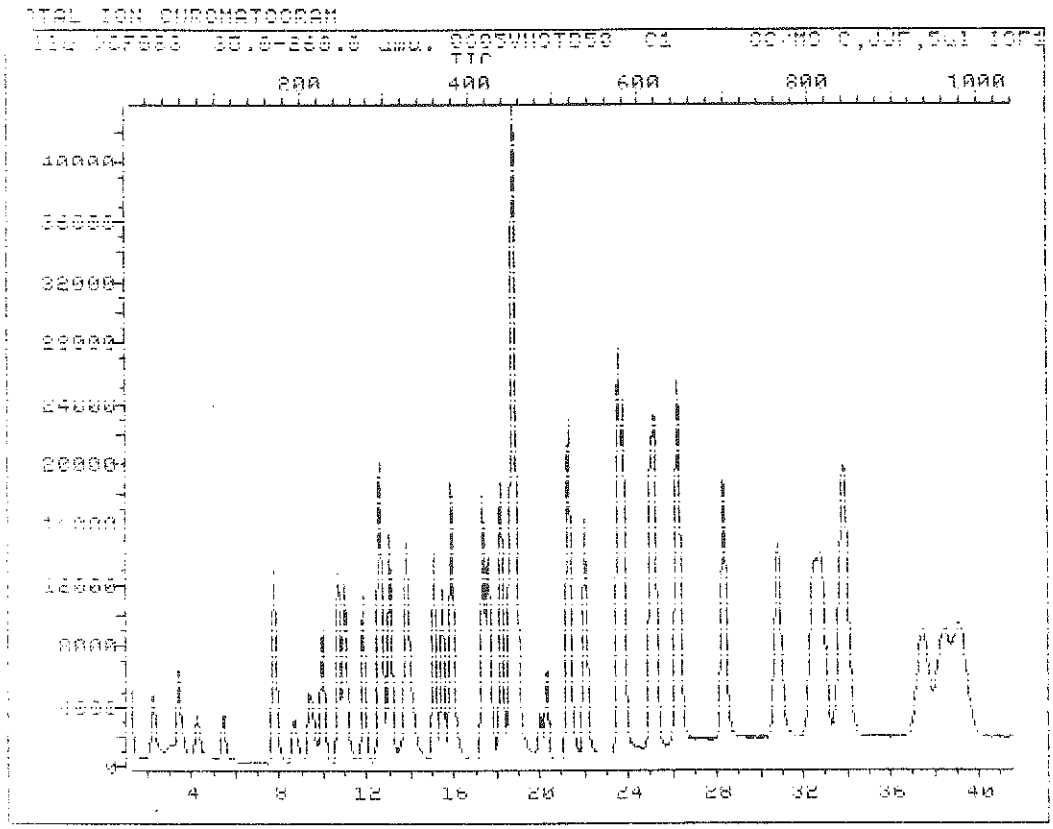
Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930604 23:51
Output File: ^CF081::OU Injected at: 930604 23:09
Data File: >CF081::C1 Dilution Factor: 1.00000
Name: 0604UHSTD200 C1
Misc: GC/MS C,JJF,5ul ISF1,20ul SSF1,VO1F1,VO2F1/5ml

ID File: I9HCF1::IC
Title: HSL VOLATILES
Last Calibration: 930604 21:19

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	249	19207	50.00	ug/L	85
2)	Chloromethane	50.0	26	129583	161.11	ug/L	93
3)	Bromomethane	94.0	56	98725	160.17	ug/L	88
4)	Vinyl Chloride	62.0	77	81881	133.57	ug/L	96
5)	Chloroethane	64.0	109	50311	114.84	ug/L	96
6)	Methylene Chloride	84.0	167	139956	160.43	ug/L	90
7)	Acetone	43.0	193	83622	234.02	ug/L	85
8)	Acrylonitrile	53.0	208	131363	529.62	ug/L	100
9)	Acrolein	56.0	193	32554	369.43	ug/L	1
10)	Trichlorofluoromethane	101.0	224	178413	161.39	ug/L	100
11)	Carbon Disulfide	76.0	211	54053	125.95	ug/L	87
12)	1,1-Dichloroethene	96.0	242	110771	180.23	ug/L	70
13)	1,1-Dichloroethane	63.0	272	269053	190.24	ug/L	93
14)	1,2-Dichloroethene (Total)	96.0	291	241836	380.58	ug/L	87
15)	Chloroform	83.0	303	266049	190.66	ug/L	93
16)	1,2-Dichloroethane	62.0	324	183290	192.98	ug/L	96
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	321	159914	191.55	ug/L	96
18)	2-Butanone	72.0	330	26221	274.29	ug/L	91
19)	*1,4-Difluorobenzene	114.0	517	70469	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	356	189192	190.41	ug/L	77
21)	Carbon Tetrachloride	117.0	366	157196	176.31	ug/L	89
22)	Vinyl Acetate	43.0	375	237559	141.72	ug/L	71
23)	Bromodichloromethane	83.0	377	262891	195.97	ug/L	93
24)	1,2-Dichloropropane	63.0	414	187314	207.70	ug/L	92
25)	trans-1,3-Dichloropropene	75.0	421	221554	197.53	ug/L	95
26)	Trichloroethene	130.0	436	153127	200.08	ug/L	89
27)	Dibromochloromethane	129.0	446	240237	202.67	ug/L	99
28)	1,1,2-Trichloroethane	97.0	451	155663	197.96	ug/L	96
29)	Benzene	78.0	452	360708	196.51	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	453	184199	183.03	ug/L	100
31)	2-Chloroethylvinylether	63.0	483	39729	43.45	ug/L	97
32)	Bromoform	173.0	514	178217	218.85	ug/L	98
33)	*Chlorobenzene-d5	117.0	641	39674	50.00	ug/L	95
34)	4-Methyl-2-Pentanone	43.0	535	387386	252.17	ug/L	86
35)	2-Hexanone	43.0	575	299018	265.32	ug/L	85
36)	Tetrachloroethene	164.0	580	124912	199.50	ug/L	97
37)	1,1,2,2-Tetrachloroethane	83.0	574	323623	201.56	ug/L	61
38)	Toluene	92.0	617	217226	196.82	ug/L	98
39)	Chlorobenzene	112.0	644	286297	191.25	ug/L	93
40)	Ethylbenzene	106.0	697	125787	191.31	ug/L	99
41)	Styrene	104.0	803	269219	191.96	ug/L	97
42)	Xylene (Total)	106.0	840	457114M	573.70	ug/L	98
43)	m-Xylene	106.0	813	154012	189.49	ug/L	100

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	o + p-Xylenes	106.0	840	304060	385.93	ug/L	100
45)	BROMOFLUOROBENZENE (SURR)	95.0	761	231274	190.25	ug/L	83
46)	TOLUENE-d8 (SURR)	98.0	612	315057	200.14	ug/L	91
47)	1,3 Dichlorobenzene	146.0	931	234263	191.18	ug/L	100
48)	1,2 Dichlorobenzene	146.0	958	231339M	195.12	ug/L	100
49)	1,4 Dichlorobenzene	146.0	976	236602M	185.68	ug/L	100

* Compound is ISTD



Data File: >CF083::C1 Quant Output File: ^CF083::OU
Name: 9605UHSTD50 C1
Misc: GC/MS C,JJF,5ml ISF1,SSF1,U01F1,U02F1/5mls

IS File: 144CF1::IC
Title: HSL VOLATILES
Last Calibration: 930605 00:02

Operator ID: ZIPPY
Quant Time: 930605 17:36
Injected at: 930605 16:53

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930605 17:36
Output File: >CF083::OU Injected at: 930605 16:53
Data File: >CF083::C1 Dilution Factor: 1.00000
Name: USASUHST050 C1
Misc: GC/MS C,JJF,5ul ISF1,SSF1,V01F1,V02F1/5mls

ID File: [9BCF1::]C
Title: HSL VOLATILES
Last Calibration: 930605 00:02

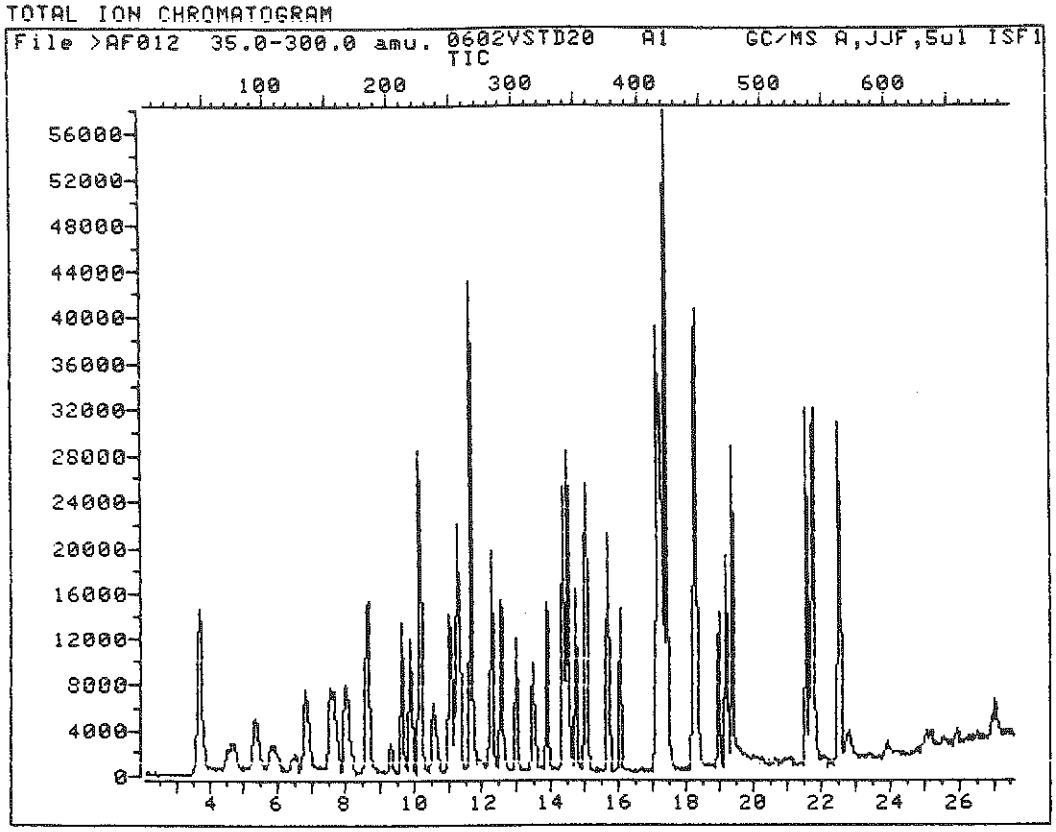
	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	19953	50.00	ug/L	87
2)	Chloromethane	50.0	26	33553	42.42	ug/L	91
3)	Bromomethane	94.0	56	25266	48.41	ug/L	89
4)	Vinyl Chloride	62.0	77	35281	51.37	ug/L	97
5)	Chloroethane	64.0	108	19864	52.19	ug/L	94
6)	Methylene Chloride	84.0	168	38562	48.44	ug/L	90
7)	Acetone	43.0	190	24176	24.02	ug/L	84
8)	Acrylonitrile	53.0	209	33871	49.94	ug/L	100
9)	Acrolein	56.0	194	10392	123.00	ug/L	1
10)	Trichlorofluoromethane	101.0	225	46602	48.85	ug/L	100
11)	Carbon Disulfide	76.0	213	20035	44.65	ug/L	85
12)	1,1-Dichloroethene	96.0	243	30855	50.28	ug/L	73
13)	1,1-Dichloroethane	63.0	274	69891	49.38	ug/L	94
14)	1,2-Dichloroethene (Total)	96.0	293	65442	101.64	ug/L	89
15)	Chloroform	83.0	304	70623	50.57	ug/L	94
16)	1,2-Dichloroethane	62.0	325	46689	49.34	ug/L	99
17)	1,2-DICHLOROETHANE-A4 (SURR)	65.0	323	40403	47.94	ug/L	93
18)	2-Butanone	72.0	330	6488	50.21	ug/L	95
19)	*1,4-Difluorobenzene	114.0	518	75151	50.00	ug/L	100
20)	1,1,1-Trichloroethane	97.0	352	48005	48.79	ug/L	76
21)	Carbon Tetrachloride	117.0	367	38910	48.66	ug/L	83
22)	Vinyl Acetate	43.0	377	68532	52.87	ug/L	71
23)	Bromodichloromethane	83.0	378	66134	49.63	ug/L	93
24)	1,2-Dichloropropane	63.0	416	46528	48.96	ug/L	92
25)	trans-1,3-Dichloropropene	75.0	422	58111	51.29	ug/L	93
26)	Trichloroethene	130.0	437	40344	51.07	ug/L	90
27)	Dibromochloromethane	129.0	448	56214	48.24	ug/L	99
28)	1,1,2-Trichloroethane	97.0	452	38153	46.16	ug/L	94
29)	Benzene	78.0	453	94335	49.12	ug/L	100
30)	cis-1,3-Dichloropropene	75.0	455	42868	50.30	ug/L	100
31)	2-Chloroethylvinylether	63.0	484	9455	62.19	ug/L	98
32)	Bromoform	173.0	516	40115	48.43	ug/L	96
33)	*Chlorobenzene-d5	117.0	642	41189	50.00	ug/L	95
34)	4-Methyl-2-Pentanone	43.0	536	95035	45.66	ug/L	87
35)	2-Hexanone	43.0	576	75025	45.78	ug/L	86
36)	Tetrachloroethene	164.0	581	31502	41.45	ug/L	97
37)	1,1,2,2-Tetrachloroethane	83.0	575	79454	46.38	ug/L	62
38)	Toluene	92.0	618	56852	48.62	ug/L	99
39)	Chlorobenzene	112.0	645	73488	49.22	ug/L	93
40)	Ethylbenzene	106.0	698	32272	48.74	ug/L	98
41)	Styrene	104.0	805	71130	49.81	ug/L	98
42)	Xylene (Total)	106.0	840	120439M	148.21	ug/L	99
43)	m-Xylene	106.0	814	40901	49.62	ug/L	100

000129

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	o + p-Xylenes	106.0	840	79471	98.67	ug/L	100
45)	BROMOFLUOROBENZENE (SURR)	95.0	762	62021	49.24	ug/L	86
46)	TOLUENE-d8 (SURR)	98.0	613	81679	48.01	ug/L	89
47)	1,3 Dichlorobenzene	146.0	936	61130M	49.76	ug/L	100
48)	1,2 Dichlorobenzene	146.0	957	57142M	47.06	ug/L	100
49)	1,4 Dichlorobenzene	146.0	978	67036M	51.32	ug/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AF012::C2 Quant Output File: ^AF012::OU
Name: 0602VSTD20 A1
Misc: GC/MS A,JJF,5ul ISF1,2ul SSF1,VO1F1,VO2F1/5mls

Id File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

Operator ID: ZIPPY
Quant Time: 930603 01:12
Injected at: 930603 00:43

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930603 01:12
Output File: ^AF012::OU Injected at: 930603 00:43
Data File: >AF012::C2 Dilution Factor: 1.00000
Name: 0602VSTD20 A1
Misc: GC/MS A,JJF,5ul ISF1,2ul SSF1,VO1F1,VO2F1/5mls

ID File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

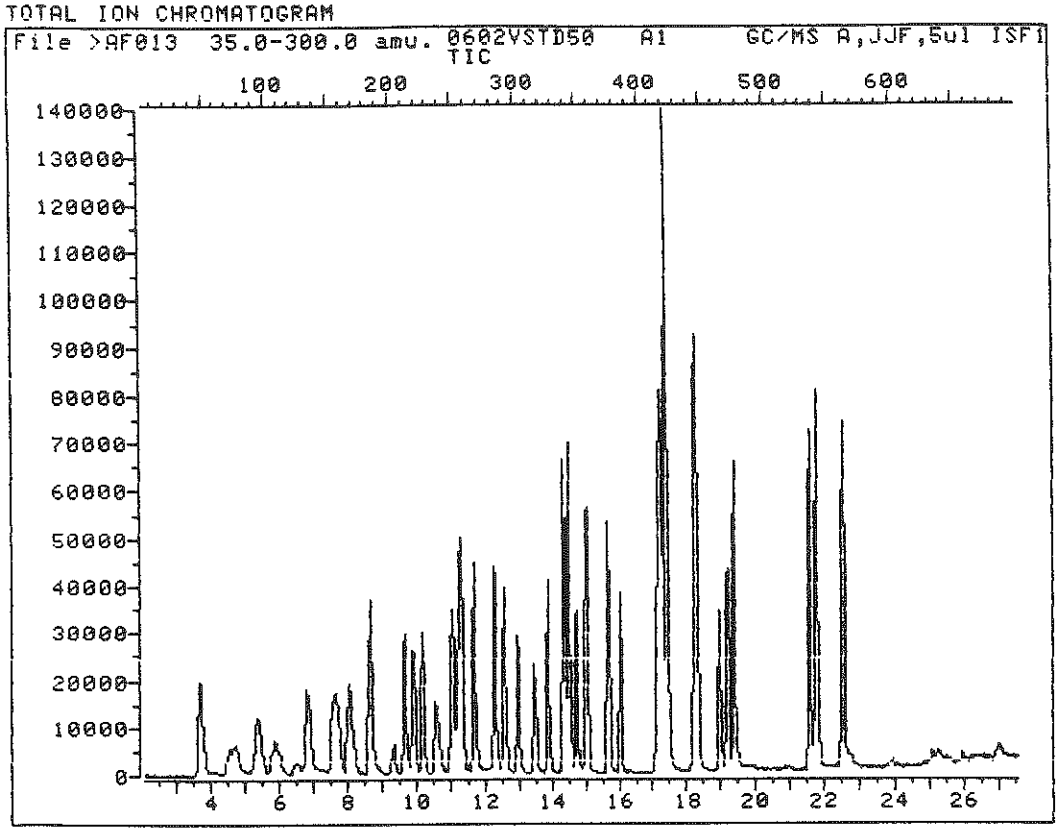
	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	223	24407	50.00	ng/mL	60
2)	Chloromethane	50.0	69	14322	17.81	ng/mL	90
3)	Vinyl Chloride	62.0	74	14057	18.68	ng/mL	95
4)	Bromomethane	94.0	91	15720	21.15	ng/mL	97
5)	Chloroethane	64.0	93	11304	20.34	ng/mL	98
6)	Trichlorofluoromethane	101.0	106	17387	20.72	ng/mL	88
7)	Acetone	43.0	123	3699	21.69	ng/mL	88
8)	Acrylonitrile	53.0	155	9492	39.47	ng/mL	100
9)	Acrolein	56.0	121	4324M	40.28	ng/mL	
10)	1,1-Dichloroethene	96.0	131	17524	21.10	ng/mL	93
11)	Methylene Chloride	84.0	152	19988	21.49	ng/mL	74
12)	Carbon Disulfide	76.0	156	8963	23.60	ng/mL	100
13)	trans-1,2-Dichloroethene	96.0	165	18473	21.13	ng/mL	88
14)	1,1-Dichloroethane	63.0	182	34136	21.01	ng/mL	97
15)	2-Butanone	72.0	200	2165	21.67	ng/mL	90
16)	cis-1,2-Dichloroethene	96.0	209	18412	20.34	ng/mL	84
17)	Chloroform	83.0	216	30083	21.66	ng/mL	89
18)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	247	15592	25.97	ng/mL	100
19)	1,2-Dichloroethane	62.0	252	16146	23.70	ng/mL	80
20)	*1,4-Difluorobenzene	114.0	264	109123	50.00	ng/mL	96
21)	Vinyl Acetate	43.0	181	44369M	21.02	ng/mL	
22)	1,1,1-Trichloroethane	97.0	234	19367	22.12	ng/mL	96
23)	Carbon Tetrachloride	117.0	247	15447	20.81	ng/mL	88
24)	Benzene	78.0	254	60999	20.67	ng/mL	100
25)	Trichloroethene	95.0	281	19763	19.73	ng/mL	85
26)	1,2-Dichloropropane	63.0	288	23814	20.11	ng/mL	85
27)	Bromodichloromethane	83.0	300	25044	20.62	ng/mL	95
28)	2-Chloroethylvinylether	63.0	312	3276	22.92	ng/mL	95
29)	trans-1,3-Dichloropropene	75.0	324	32196	21.25	ng/mL	96
30)	TOLUENE-d8 (SURR1)	98.0	337	60688	22.73	ng/mL	98
31)	cis-1,3-Dichloropropene	75.0	348	26113	22.11	ng/mL	100
32)	1,1,2-Trichloroethane	97.0	356	20224	19.77	ng/mL	94
33)	Dibromochloromethane	129.0	383	23746	18.71	ng/mL	87
34)	Bromoform	173.0	464	19449	18.19	ng/mL	97
35)	*Chlorobenzene-d5	82.0	413	36935	50.00	ng/mL	94
36)	4-Methyl-2-Pentanone	43.0	313	25702	18.67	ng/mL	92
37)	Toluene	92.0	341	38934	20.47	ng/mL	92
38)	2-Hexanone	43.0	355	15787	17.49	ng/mL	54
39)	Tetrachloroethene	164.0	373	17599	19.35	ng/mL	99
40)	Chlorobenzene	112.0	415	43313	18.79	ng/mL	92
41)	Ethylbenzene	91.0	417	78382M	20.81	ng/mL	98
42)	m + p-Xylenes	106.0	421	55177	40.87	ng/mL	84
43)	o-Xylene	106.0	443	27170	20.02	ng/mL	97

000132

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	Styrene	104.0	445	49973	19.86	ng/mL	97
45)	1,1,2,2-Tetrachloroethane	83.0	470	35512	18.02	ng/mL	93
46)	BROMOFLUOROBENZENE (SURR)	95.0	475	29333	24.35	ng/mL	88
47)	1,3-Dichlorobenzene	146.0	535	38746	19.31	ng/mL	100
48)	1,4-Dichlorobenzene	146.0	541	40134	19.30	ng/mL	100
49)	1,2-Dichlorobenzene	146.0	561	37157	18.82	ng/mL	100
50)	TOLUENE-d8 (SURR)	98.0	337	60688	22.08	ng/mL	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AF013::C2 Quant Output File: ^AF013::OU
Name: 0602VSTD50 A1
Misc: GC/MS A,JJF,5ul ISF1,5ul SSF1,VO1F1,VO2F1/5mls

Id File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

Operator ID: ZIPPY
Quant Time: 930603 01:54
Injected at: 930603 01:26

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930603 01:54
Output File: ^AF013::OU Injected at: 930603 01:26
Data File: >AF013::C2 Dilution Factor: 1.00000
Name: 0602VSTD50 A1
Misc: GC/MS A,JJF,5ul ISF1,5ul SSF1,VO1F1,VO2F1/5mls

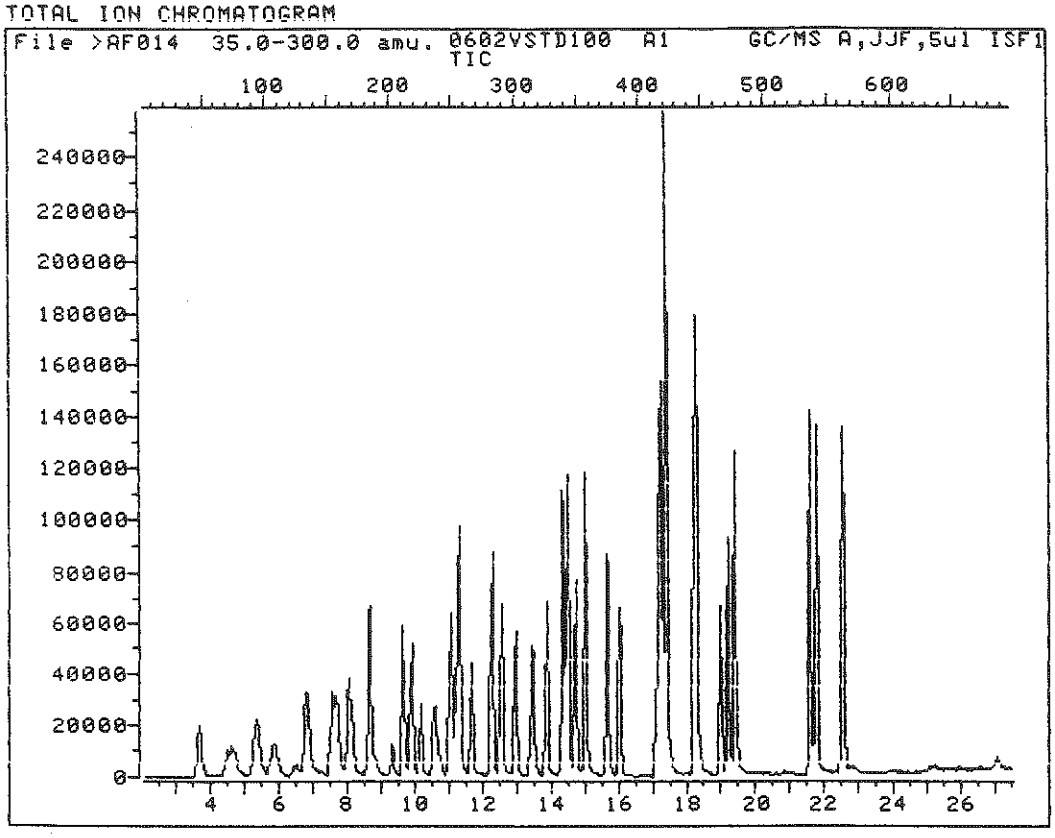
ID File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	224	24754	50.00	ng/mL	76
2)	Chloromethane	50.0	70	35809	43.90	ng/mL	89
3)	Vinyl Chloride	62.0	74	36295	47.56	ng/mL	96
4)	Bromomethane	94.0	92	39178	51.98	ng/mL	98
5)	Chloroethane	64.0	94	30094	53.40	ng/mL	93
6)	Trichlorofluoromethane	101.0	106	46128	54.21	ng/mL	92
7)	Acetone	43.0	124	9929	57.39	ng/mL	83
8)	Acrylonitrile	53.0	156	27685	113.51	ng/mL	100
9)	Acrolein	56.0	122	11197	102.85	ng/mL	1
10)	1,1-Dichloroethene	96.0	132	43620	51.79	ng/mL	92
11)	Methylene Chloride	84.0	153	47916	50.80	ng/mL	62
12)	Carbon Disulfide	76.0	157	20733	53.82	ng/mL	100
13)	trans-1,2-Dichloroethene	96.0	165	46275	52.18	ng/mL	75
14)	1,1-Dichloroethane	63.0	183	83463	50.65	ng/mL	96
15)	2-Butanone	72.0	201	5700	56.25	ng/mL	88
16)	cis-1,2-Dichloroethene	96.0	210	46042	50.15	ng/mL	84
17)	Chloroform	83.0	216	73800	52.40	ng/mL	88
18)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	248	35762	58.72	ng/mL	100
19)	1,2-Dichloroethane	62.0	252	40193	58.18	ng/mL	84
20)	*1,4-Difluorobenzene	114.0	265	109937	50.00	ng/mL	95
21)	Vinyl Acetate	43.0	182	100677M	47.33	ng/mL	
22)	1,1,1-Trichloroethane	97.0	235	46577	52.81	ng/mL	99
23)	Carbon Tetrachloride	117.0	247	37786	50.52	ng/mL	91
24)	Benzene	78.0	255	146064	49.13	ng/mL	100
25)	Trichloroethene	95.0	281	49989	49.55	ng/mL	94
26)	1,2-Dichloropropane	63.0	289	57699	48.36	ng/mL	85
27)	Bromodichloromethane	83.0	300	63020	51.51	ng/mL	95
29)	trans-1,3-Dichloropropene	75.0	325	80320	52.63	ng/mL	95
30)	TOLUENE-d8 (SURR1)	98.0	338	146802	54.58	ng/mL	95
31)	cis-1,3-Dichloropropene	75.0	349	66418	55.81	ng/mL	100
32)	1,1,2-Trichloroethane	97.0	357	48331	46.90	ng/mL	99
33)	Dibromochloromethane	129.0	384	62644	48.99	ng/mL	91
34)	Bromoform	173.0	464	50596	46.98	ng/mL	97
35)	*Chlorobenzene-d5	82.0	413	38344	50.00	ng/mL	92
36)	4-Methyl-2-Pentanone	43.0	314	58480	40.93	ng/mL	90
37)	Toluene	92.0	342	90678	45.91	ng/mL	93
38)	2-Hexanone	43.0	356	43595	46.51	ng/mL	62
39)	Tetrachloroethene	164.0	374	43219	45.78	ng/mL	98
40)	Chlorobenzene	112.0	415	111787	46.71	ng/mL	98
41)	Ethylbenzene	91.0	417	177273M	45.34	ng/mL	99
42)	m + p-Xylenes	106.0	421	131289	93.67	ng/mL	85
43)	o-Xylene	106.0	444	65954	46.81	ng/mL	97
44)	Styrene	104.0	446	117534	45.00	ng/mL	88

	Compound	Q ion	Scan#	Area	Conc	Units	q
45)	1,1,2,2-Tetrachloroethane	83.0	471	94547	46.21	ng/mL	95
46)	BROMOFLUOROBENZENE (SURR)	95.0	476	67463	53.95	ng/mL	95
47)	1,3-Dichlorobenzene	146.0	536	96266	46.22	ng/mL	100
48)	1,4-Dichlorobenzene	146.0	541	99799	46.23	ng/mL	100
49)	1,2-Dichlorobenzene	146.0	562	93668	45.69	ng/mL	100
50)	TOLUENE-d8 (SURR)	98.0	338	146802	51.45	ng/mL	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AF014::C2 Quant Output File: ^AF014::OU
Name: 0602VSTD100 A1
Misc: GC/MS A,JJF,5ul ISF1,10ul SSF1,VO1F1,VO2F1/5mls

Id File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

Operator ID: ZIPPY
Quant Time: 930603 02:37
Injected at: 930603 02:09

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930603 02:37
Output File: ^AF014::OU Injected at: 930603 02:09
Data File: >AF014::C2 Dilution Factor: 1.00000
Name: 0602VSTD100 A1
Misc: GC/MS A,JJF,5ul ISF1,10ul SSF1,VO1F1,VO2F1/5mls

ID File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	223	23512	50.00	ng/mL	66
2)	Chloromethane	50.0	68	67148	86.66	ng/mL	90
3)	Vinyl Chloride	62.0	73	61914	85.41	ng/mL	94
4)	Bromomethane	94.0	91	71747	100.22	ng/mL	96
5)	Chloroethane	64.0	93	53202	99.38	ng/mL	94
6)	Trichlorofluoromethane	101.0	105	82353	101.90	ng/mL	94
7)	Acetone	43.0	124	18291	111.32	ng/mL	75
8)	Acrylonitrile	53.0	155	52007	224.49	ng/mL	100
9)	Acrolein	56.0	121	20289	196.21	ng/mL	1
10)	1,1-Dichloroethene	96.0	131	81602	102.01	ng/mL	96
11)	Methylene Chloride	84.0	152	89319	99.69	ng/mL	76
12)	Carbon Disulfide	76.0	156	39487	107.91	ng/mL	100
13)	trans-1,2-Dichloroethene	96.0	165	87082	103.38	ng/mL	85
14)	1,1-Dichloroethane	63.0	182	153721	98.22	ng/mL	95
15)	2-Butanone	72.0	200	11799	122.59	ng/mL	89
16)	cis-1,2-Dichloroethene	96.0	209	87042	99.82	ng/mL	86
17)	Chloroform	83.0	216	135088	100.99	ng/mL	88
18)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	247	70085	121.17	ng/mL	100
19)	1,2-Dichloroethane	62.0	252	74931	114.19	ng/mL	83
20)	*1,4-Difluorobenzene	114.0	264	108236	50.00	ng/mL	94
21)	Vinyl Acetate	43.0	181	207141M	98.92	ng/mL	
22)	1,1,1-Trichloroethane	97.0	235	88729	102.18	ng/mL	99
23)	Carbon Tetrachloride	117.0	247	70922	96.31	ng/mL	90
24)	Benzene	78.0	254	278764	95.23	ng/mL	100
25)	Trichloroethene	95.0	281	94449	95.08	ng/mL	93
26)	1,2-Dichloropropane	63.0	288	111611	95.02	ng/mL	86
27)	Bromodichloromethane	83.0	300	121423	100.80	ng/mL	95
28)	2-Chloroethylvinylether	63.0	312	28227	199.10	ng/mL	94
29)	trans-1,3-Dichloropropene	75.0	324	151869	101.08	ng/mL	94
30)	TOLUENE-d8 (SURR1)	98.0	337	278648	105.24	ng/mL	96
31)	cis-1,3-Dichloropropene	75.0	348	123839	105.70	ng/mL	100
32)	1,1,2-Trichloroethane	97.0	356	92868	91.53	ng/mL	95
33)	Dibromochloromethane	129.0	383	111158	88.30	ng/mL	84
34)	Bromoform	173.0	464	94595	89.21	ng/mL	97
35)	*Chlorobenzene-d5	82.0	413	35475	50.00	ng/mL	95
36)	4-Methyl-2-Pentanone	43.0	314	133936	101.32	ng/mL	90
37)	Toluene	92.0	341	169136	92.56	ng/mL	91
38)	2-Hexanone	43.0	355	84168	97.06	ng/mL	54
39)	Tetrachloroethene	164.0	373	79285	90.78	ng/mL	99
40)	Chlorobenzene	112.0	415	198364	89.59	ng/mL	90
41)	Ethylbenzene	91.0	417	352373M	97.42	ng/mL	97
42)	m + p-Xylenes	106.0	421	225627	174.00	ng/mL	84
43)	o-Xylene	106.0	443	122012	93.59	ng/mL	96

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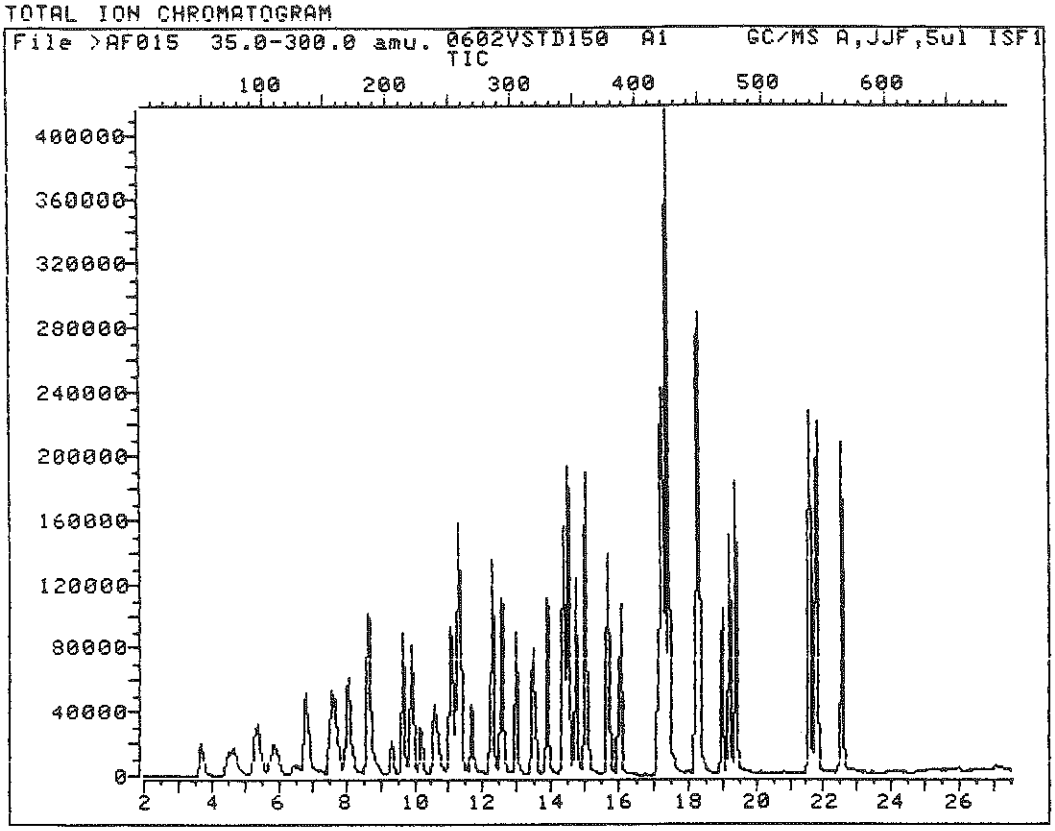
	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	Styrene	104.0	445	219818	90.97	ng/mL	95
45)	1,1,2,2-Tetrachloroethane	83.0	470	177509	93.78	ng/mL	96
46)	BROMOFLUOROBENZENE (SURR)	95.0	475	127724	110.41	ng/mL	88
47)	1,3-Dichlorobenzene	146.0	535	176174	91.43	ng/mL	100
48)	1,4-Dichlorobenzene	146.0	541	183161	91.72	ng/mL	100
49)	1,2-Dichlorobenzene	146.0	561	176351	92.99	ng/mL	100
50)	TOLUENE-d8 (SURR)	98.0	337	278648	105.56	ng/mL	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AF015::C2 Quant Output File: ^AF015::OU
Name: 0602VSTD150 A1
Misc: GC/MS A,JJF,5ul ISF1,15ul SSF1,VO1F1,VO2F1/5mls

Id File: IDVAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:34

Operator ID: ZIPPY
Quant Time: 930603 09:11
Injected at: 930603 02:51

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930603 09:11
Output File: ^AF015::OU Injected at: 930603 02:51
Data File: >AF015::C2 Dilution Factor: 1.00000
Name: 0602VSTD150 A1
Misc: GC/MS A,JJF,5ul ISF1,15ul SSF1,VO1F1,VO2F1/5mls

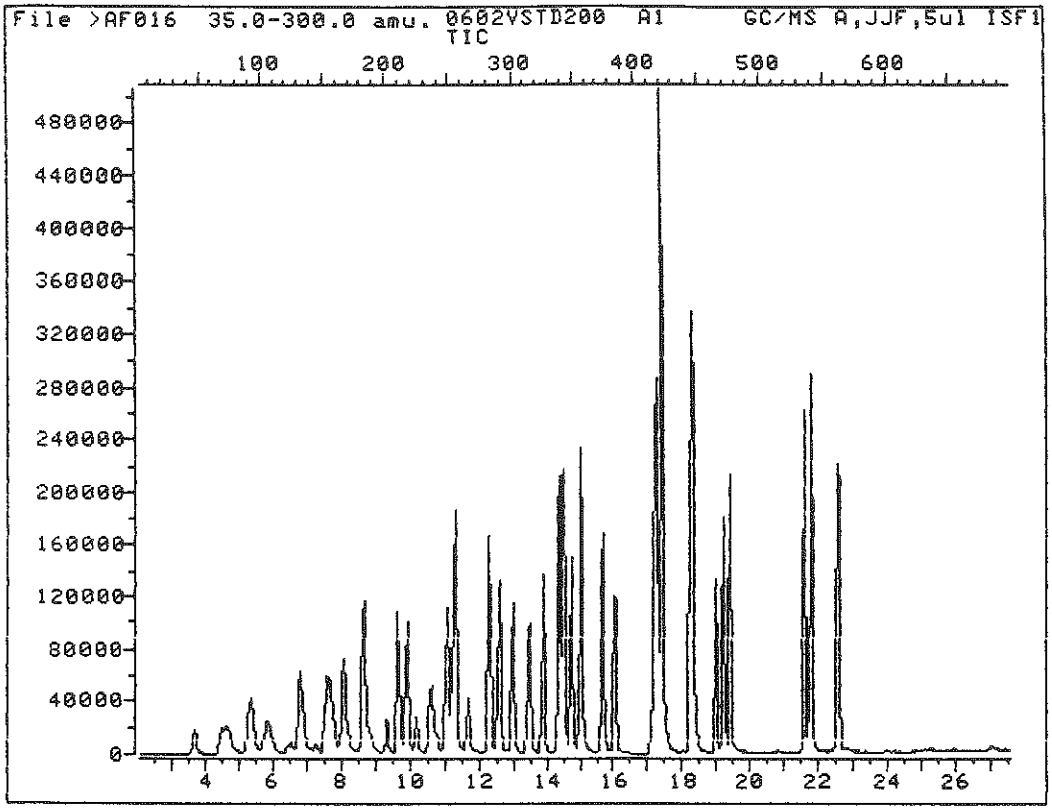
ID File: IDVAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:34

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	225	23792	50.00	ng/mL	68
2)	Chloromethane	50.0	70	106828	137.03	ng/mL	92
3)	Vinyl Chloride	62.0	74	96460	133.73	ng/mL	95
4)	Bromomethane	94.0	92	102886	142.14	ng/mL	99
5)	Chloroethane	64.0	94	77889	143.82	ng/mL	95
6)	Trichlorofluoromethane	101.0	107	125487	153.33	ng/mL	90
7)	Acetone	43.0	126	27001	182.91	ng/mL	82
8)	Acrylonitrile	53.0	157	91776	385.61	ng/mL	100
9)	Acrolein	56.0	123	29278	288.86	ng/mL	1
10)	1,1-Dichloroethene	96.0	133	132379	162.09	ng/mL	93
11)	Methylene Chloride	84.0	154	143126	158.04	ng/mL	76
12)	Carbon Disulfide	76.0	158	64402	171.49	ng/mL	100
13)	trans-1,2-Dichloroethene	96.0	167	143171	166.64	ng/mL	79
14)	1,1-Dichloroethane	63.0	184	252901	159.96	ng/mL	96
15)	2-Butanone	72.0	202	20549	174.13	ng/mL	89
16)	cis-1,2-Dichloroethene	96.0	211	143626	161.51	ng/mL	82
17)	Chloroform	83.0	218	223215	164.06	ng/mL	87
18)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	249	102149	173.79	ng/mL	100
19)	1,2-Dichloroethane	62.0	254	120535	183.90	ng/mL	82
20)	*1,4-Difluorobenzene	114.0	266	107598	50.00	ng/mL	97
21)	Vinyl Acetate	43.0	183	303650	145.16	ng/mL	56
22)	1,1,1-Trichloroethane	97.0	237	145488	165.36	ng/mL	98
23)	Carbon Tetrachloride	117.0	248	115281	154.60	ng/mL	93
24)	Benzene	78.0	256	439259	152.58	ng/mL	100
25)	Trichloroethene	95.0	283	155143	155.34	ng/mL	92
26)	1,2-Dichloropropane	63.0	290	183376	157.34	ng/mL	85
27)	Bromodichloromethane	83.0	302	196910	163.26	ng/mL	94
28)	2-Chloroethylvinylether	63.0	314	42782	235.00	ng/mL	96
29)	trans-1,3-Dichloropropene	75.0	326	241725	163.14	ng/mL	93
30)	TOLUENE-d8 (SURR1)	98.0	339	397828	150.53	ng/mL	95
31)	cis-1,3-Dichloropropene	75.0	350	201340	172.59	ng/mL	100
32)	1,1,2-Trichloroethane	97.0	358	149501	152.88	ng/mL	99
33)	Dibromochloromethane	129.0	385	183605	149.76	ng/mL	84
34)	Bromoform	173.0	466	149167	146.51	ng/mL	97
35)	*Chlorobenzene-d5	82.0	415	37009	50.00	ng/mL	96
36)	4-Methyl-2-Pentanone	43.0	316	211169	158.46	ng/mL	91
37)	Toluene	92.0	343	275605	148.82	ng/mL	93
38)	2-Hexanone	43.0	357	134709	159.81	ng/mL	68
39)	Tetrachloroethene	164.0	375	128539	143.16	ng/mL	97
40)	Chlorobenzene	112.0	417	321881	142.68	ng/mL	90
41)	Ethylbenzene	91.0	419	555795M	156.06	ng/mL	96
42)	m + p-Xylenes	106.0	423	355010	274.53	ng/mL	83
43)	o-Xylene	106.0	446	195757	149.72	ng/mL	90

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	Styrene	104.0	447	356345	147.83	ng/mL	95
45)	1,1,2,2-Tetrachloroethane	83.0	472	288801	155.85	ng/mL	96
46)	BROMOFLUOROBENZENE (SURR)	95.0	477	188158	155.96	ng/mL	96
47)	1,3-Dichlorobenzene	146.0	537	282540	149.11	ng/mL	100
48)	1,4-Dichlorobenzene	146.0	543	289127	147.32	ng/mL	100
49)	1,2-Dichlorobenzene	146.0	563	270957	146.04	ng/mL	100
50)	TOLUENE-d8 (SURR)	98.0	339	397828	145.57	ng/mL	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AF016::C2 Quant Output File: ^AF016::OU
Name: 0602VSTD200 A1
Misc: GC/MS A,JJF,5ul ISF1,20ul SSF1,VO1F1,VO2F1/5mls

Id File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

Operator ID: ZIPPY
Quant Time: 930603 04:02
Injected at: 930603 03:34

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930603 04:02
Output File: ^AF016::OU Injected at: 930603 03:34
Data File: >AF016::C2 Dilution Factor: 1.00000
Name: 0602VSTD200 A1
Misc: GC/MS A,JJF,5ul ISF1,20ul SSF1,VO1F1,VO2F1/5mls

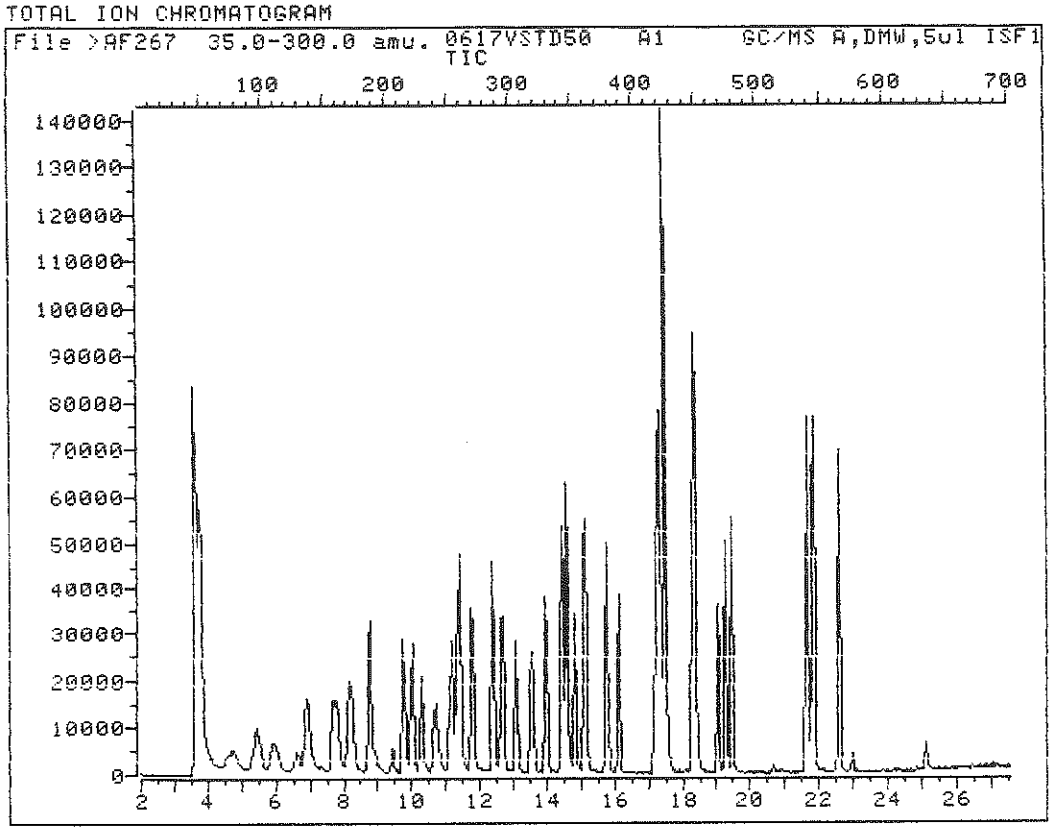
ID File: I9VAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:24

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	223	23351	50.00	ng/mL	62
2)	Chloromethane	50.0	68	144561	187.86	ng/mL	91
3)	Vinyl Chloride	62.0	73	125634	174.50	ng/mL	97
4)	Bromomethane	94.0	90	132918	186.96	ng/mL	97
5)	Chloroethane	64.0	92	100147	188.37	ng/mL	95
6)	Trichlorofluoromethane	101.0	105	158788	197.83	ng/mL	94
7)	Acetone	43.0	124	35645	218.42	ng/mL	82
8)	Acrylonitrile	53.0	155	96928	421.28	ng/mL	100
9)	Acrolein	56.0	121	31999	311.60	ng/mL	1
10)	1,1-Dichloroethene	96.0	131	157691	198.49	ng/mL	95
11)	Methylene Chloride	84.0	152	172416	193.77	ng/mL	67
12)	Carbon Disulfide	76.0	156	78387	215.70	ng/mL	100
13)	trans-1,2-Dichloroethene	96.0	165	171747	205.29	ng/mL	74
14)	1,1-Dichloroethane	63.0	182	299685	192.81	ng/mL	95
15)	2-Butanone	72.0	200	24700	258.39	ng/mL	90
16)	cis-1,2-Dichloroethene	96.0	209	170060	196.37	ng/mL	88
17)	Chloroform	83.0	216	264169	198.85	ng/mL	87
18)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	248	133594	232.56	ng/mL	100
19)	1,2-Dichloroethane	62.0	252	146794	225.24	ng/mL	83
20)	*1,4-Difluorobenzene	114.0	264	107410	50.00	ng/mL	95
21)	Vinyl Acetate	43.0	181	349589	168.23	ng/mL	56
22)	1,1,1-Trichloroethane	97.0	235	171995	199.60	ng/mL	98
23)	Carbon Tetrachloride	117.0	247	140041	191.64	ng/mL	93
24)	Benzene	78.0	254	527350	181.54	ng/mL	100
25)	Trichloroethene	95.0	281	187168	189.87	ng/mL	91
26)	1,2-Dichloropropane	63.0	289	217987	187.00	ng/mL	83
27)	Bromodichloromethane	83.0	300	247982	207.45	ng/mL	95
28)	2-Chloroethylvinylether	63.0	312	59635	423.86	ng/mL	95
29)	trans-1,3-Dichloropropene	75.0	325	292923	196.46	ng/mL	94
30)	TOLUENE-d8 (SURR1)	98.0	338	519505	197.71	ng/mL	96
31)	cis-1,3-Dichloropropene	75.0	348	245487	211.14	ng/mL	100
32)	1,1,2-Trichloroethane	97.0	356	182037	180.79	ng/mL	96
33)	Dibromochloromethane	129.0	383	222191	177.85	ng/mL	83
34)	Bromoform	173.0	464	181883	172.85	ng/mL	96
35)	*Chlorobenzene-d5	82.0	413	36403	50.00	ng/mL	95
36)	4-Methyl-2-Pentanone	43.0	314	272570	200.93	ng/mL	95
37)	Toluene	92.0	341	326948	174.37	ng/mL	90
38)	2-Hexanone	43.0	356	162194	182.28	ng/mL	63
39)	Tetrachloroethene	164.0	374	149322	166.62	ng/mL	99
40)	Chlorobenzene	112.0	415	381694	167.99	ng/mL	93
41)	Ethylbenzene	91.0	417	628586M	169.36	ng/mL	97
42)	m + p-Xylenes	106.0	421	434861	326.80	ng/mL	84
43)	o-Xylene	106.0	444	230804	172.53	ng/mL	91

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	Styrene	104.0	445	421447	169.97	ng/mL	94
45)	1,1,2,2-Tetrachloroethane	83.0	470	345820	178.04	ng/mL	97
46)	BROMOFLUOROBENZENE (SURR)	95.0	475	236595	199.31	ng/mL	81
47)	1,3-Dichlorobenzene	146.0	535	337697	170.79	ng/mL	100
48)	1,4-Dichlorobenzene	146.0	541	347917	169.77	ng/mL	100
49)	1,2-Dichlorobenzene	146.0	561	322189	165.55	ng/mL	100
50)	TOLUENE-d8 (SURR)	98.0	338	519505	191.78	ng/mL	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AF267::C2 Quant Output File: ^AF267::OU
Name: 0617VSTD50 A1
Misc: GC/MS A,DMW,5ul ISF1,SSF1,VO1F1,VO2F1/5mls

Id File: IDVAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:34

Operator ID: ZIPPY
Quant Time: 930617 17:04
Injected at: 930617 16:32

QUANT REPORT

Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930617 17:04
Output File: ^AF267::OU Injected at: 930617 16:32
Data File: >AF267::C2 Dilution Factor: 1.00000
Name: 0617VSTD50 A1
Misc: GC/MS A,DMW,5ul ISF1,SSF1,VO1F1,VO2F1/5mls

ID File: IDVAF1::ID
Title: HSL VOLATILES
Last Calibration: 930507 17:34

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	227	20978	50.00	ng/mL	38
2)	Chloromethane	50.0	71	20765	30.21	ng/mL	94
3)	Vinyl Chloride	62.0	77	23870	37.53	ng/mL	96
4)	Bromomethane	94.0	95	30307	47.49	ng/mL	98
5)	Chloroethane	64.0	96	23478	49.17	ng/mL	97
6)	Trichlorofluoromethane	101.0	108	39390	54.59	ng/mL	93
7)	Acetone	43.0	127	13104	100.68	ng/mL	85
8)	Acrylonitrile	53.0	159	22528	107.35	ng/mL	100
9)	Acrolein	56.0	125	9830	109.99	ng/mL	1
10)	1,1-Dichloroethene	96.0	135	40549	56.31	ng/mL	94
11)	Methylene Chloride	84.0	156	48067	60.19	ng/mL	59
12)	Carbon Disulfide	76.0	161	21380	64.57	ng/mL	100
13)	trans-1,2-Dichloroethene	96.0	169	44181	58.32	ng/mL	72
14)	1,1-Dichloroethane	63.0	186	78660	56.43	ng/mL	97
15)	2-Butanone	72.0	204	5895	56.65	ng/mL	95
16)	cis-1,2-Dichloroethene	96.0	213	45340	57.83	ng/mL	78
17)	Chloroform	83.0	220	74752	62.31	ng/mL	88
18)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	252	31577	60.93	ng/mL	100
19)	1,2-Dichloroethane	62.0	256	40716	70.45	ng/mL	81
20)	*1,4-Difluorobenzene	114.0	268	94592	50.00	ng/mL	97
21)	Vinyl Acetate	43.0	185	91371M	49.69	ng/mL	
22)	1,1,1-Trichloroethane	97.0	239	48156	62.26	ng/mL	98
23)	Carbon Tetrachloride	117.0	251	40880	62.36	ng/mL	92
24)	Benzene	78.0	258	133627	52.80	ng/mL	100
25)	Trichloroethene	95.0	285	50309	57.30	ng/mL	88
26)	1,2-Dichloropropane	63.0	293	58703	57.29	ng/mL	83
27)	Bromodichloromethane	83.0	304	62057	58.52	ng/mL	94
28)	2-Chloroethylvinylether	63.0	316	14953	93.43	ng/mL	95
29)	trans-1,3-Dichloropropene	75.0	328	80420	61.74	ng/mL	95
30)	TOLUENE-d8 (SURR1)	98.0	341	127038	54.68	ng/mL	94
31)	cis-1,3-Dichloropropene	75.0	352	67712	66.03	ng/mL	100
32)	1,1,2-Trichloroethane	97.0	360	47403	55.14	ng/mL	92
33)	Dibromochloromethane	129.0	387	61174	56.76	ng/mL	92
34)	Bromoform	173.0	467	49388	55.18	ng/mL	97
35)	*Chlorobenzene-d5	82.0	416	35947	50.00	ng/mL	91
36)	4-Methyl-2-Pentanone	43.0	317	58943	45.54	ng/mL	91
37)	Toluene	92.0	345	86821	48.27	ng/mL	89
38)	2-Hexanone	43.0	359	36958M	45.14	ng/mL	90
39)	Tetrachloroethene	164.0	377	40425	46.35	ng/mL	97
40)	Chlorobenzene	112.0	418	101746	46.43	ng/mL	97
41)	Ethylbenzene	91.0	420	169038M	48.87	ng/mL	95
42)	m + p-Xylenes	106.0	424	124410	99.05	ng/mL	83
43)	o-Xylene	106.0	447	65025	51.20	ng/mL	95

060417

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	Styrene	104.0	449	116856	49.91	ng/mL	99
45)	1,1,2,2-Tetrachloroethane	83.0	473	91270	50.71	ng/mL	95
46)	BROMOFLUOROBENZENE (SURR)	95.0	478	65370	55.78	ng/mL	88
47)	1,3-Dichlorobenzene	146.0	538	95071	51.66	ng/mL	100
48)	1,4-Dichlorobenzene	146.0	544	96670	50.71	ng/mL	100
49)	1,2-Dichlorobenzene	146.0	564	89689	49.77	ng/mL	100
50)	TOLUENE-d8 (SURR)	98.0	341	127038	47.86	ng/mL	94

* Compound is ISTD

Section d).

RAW QC DATA

Method Blank Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0601VBLK C1

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix: WATER Lab Sample ID: 0601VBLK C1

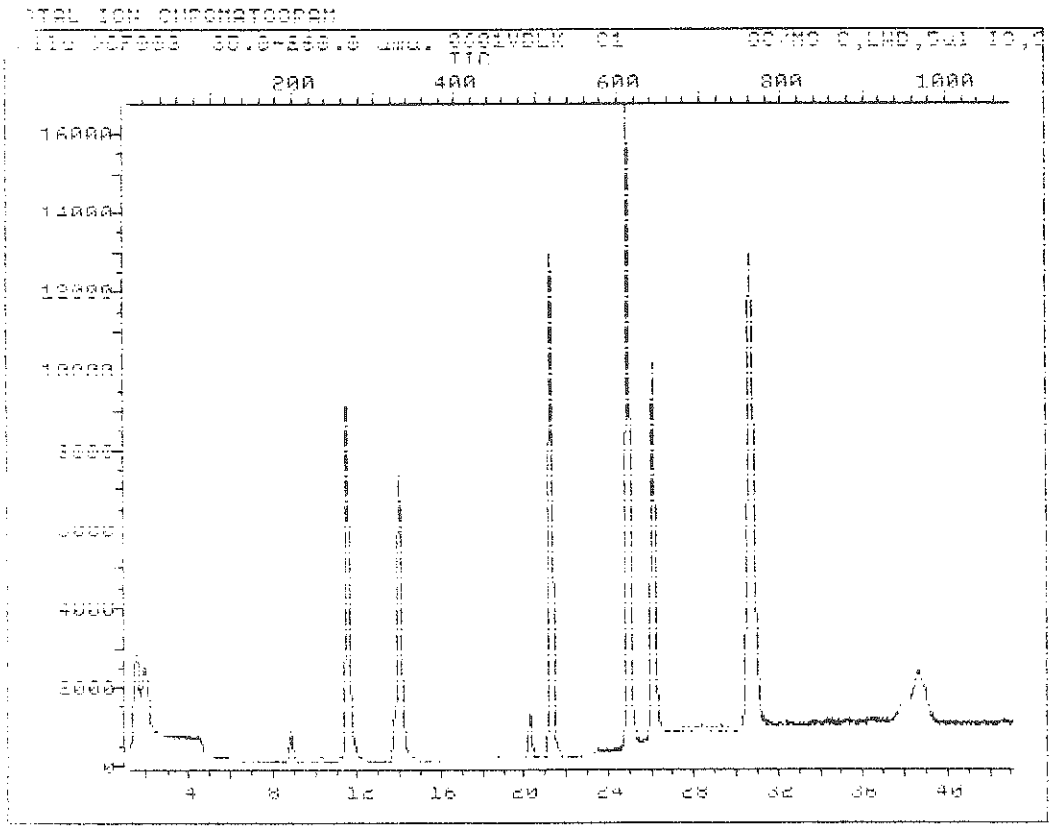
Sample (wt/vol): 5 mL Lab File ID: >CF003

Level: LOW Date Received: N.A.

% Moisture: not dec. N.A. Date Analyzed: 6/01/93

Column: PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	3.	J
67-64-1	Acetone	100.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (Total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
110-75-8	2-Chloroethylvinylether	10.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (Total)	5.	U



Data File: >CF003::C1 Quant Output File: ^CF003::OU
Name: 960VBLK C1
Misc: GC/MS C,LWB,5ul IS,SS/5mls

GC File: 190CSD::C
Title: HSL VOLATILES
Last Calibration: 930601 10:23

Operator ID: LEE
Quant Time: 930601 11:17
Injected at: 930601 10:33

QUANT REPORT

Operator ID: LEE
Output File: ^CF003::QU
Data File: >CF003::C1
Name: 8601UBLK C1
Misc: GC/MS C,LWB,5ul IS,SS/5mls

Quant Rev: 6 Quant Time: 930601 11:17
Injected at: 930601 10:33
Dilution Factor: 1.00000

ID File: I90CED::IC
Title: HSL VOLATILES
Last Calibration: 930601 10:23

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	264	15142	50.00	ug/L	86
6)	Methylene Chloride	84.0	195	1956	3.29	ug/L	90
[illegible]	1,2-DICHLOROETHANE-A4 (SURR)	65.0	329	31925	50.28	ug/L	97
[illegible]	1,4-Dichlorobenzene	114.0	517	51348	50.00	ug/L	100
[illegible]	*Chlorobenzene-d5	117.0	641	37842	50.00	ug/L	94
15)	BROMOFLUOROBENZENE (SURR)	95.0	760	59373	52.08	ug/L	86
[illegible]	TOLUENE-A8 (SURR)	98.0	612	69010	51.34	ug/L	88

* Compound is ISTD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0603VBLK C1

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix: WATER Lab Sample ID: 0603VBLK C1

Sample (wt/vol): 5 mL Lab File ID: >CF050

Level: LOW Date Received: N.A.

% Moisture: not dec. N.A. Date Analyzed: 6/03/93

Column: PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	9.	J
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (Total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
110-75-8	2-Chloroethylvinylether	10.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (Total)	5.	U

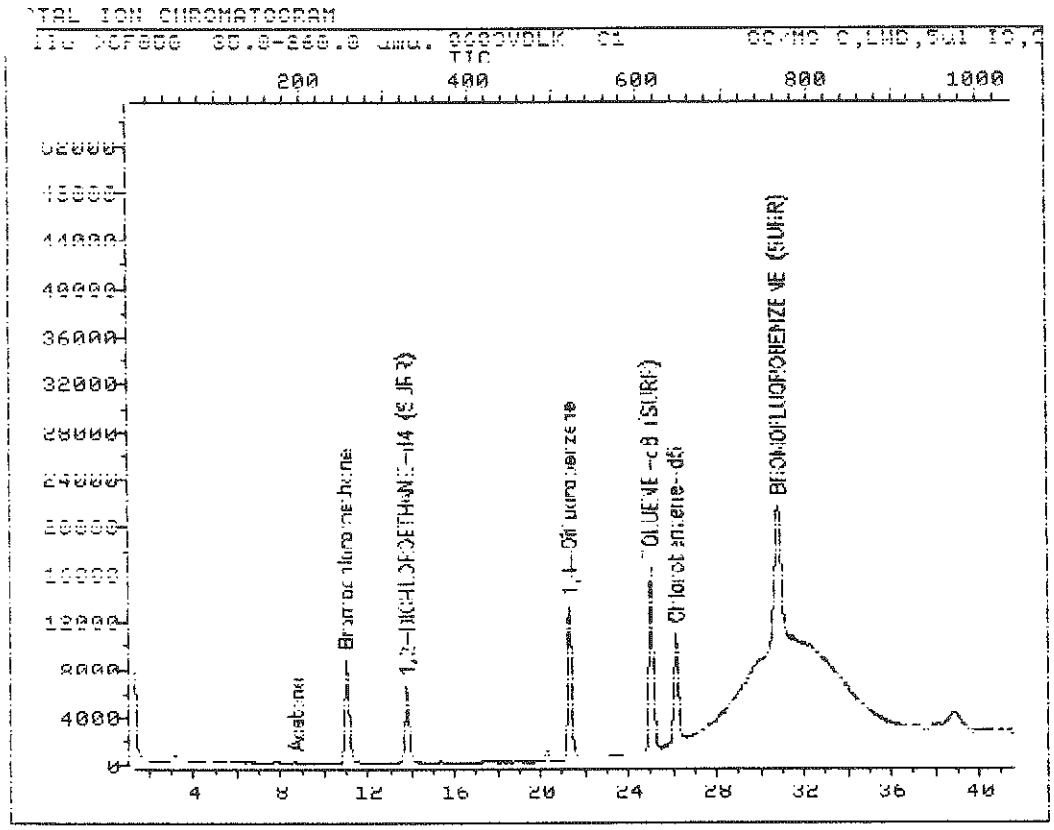
AMERICAN ENVIRONMENTAL NETWORK, Inc.
VOLATILE ORGANIC ANALYSIS - TABULATED REPORT
TCLP Analysis

Lab Data File:	>CF050	Method Number:	TCLP
I Sample Name:	0603VBLK C1	Date Analyzed:	930603
Matrix:	Water	Date Collected:	N.A.
Dilution Factor:	1.0	Date Received:	N.A.

Sample Info.: GC/MS C,LWB,5ul IS,SS/5mls

U = not detected
J = estimated value, below detection limit
B = analyte detected in Method Blank

Compound	Concentration ug/L of Leachate	Detection Limit	
Vinyl Chloride		10	U
1,1-Dichloroethene		5	U
2-Butanone		10	U
Chloroform		5	U
1,2-Dichloroethane		5	U
Carbon Tetrachloride		5	U
Benzene		5	U
Trichloroethene		5	U
Tetrachloroethene		5	U
Chlorobenzene		5	U
1,4-Dichlorobenzene		5	U



Data File: >CF050::C1 Quant Output File: ^CF050::OU
Name: 0603VBLK C1
Misc: GC/MS C,LWB,5ul IS,SS/5mls

Id File: IDUCED::IC
Title: HSL VOLATILES
Last Calibration: 930603 10:25

Operator ID: LEE
Quant Time: 930603 11:18
Injected at: 930603 10:36

QUANT REPORT

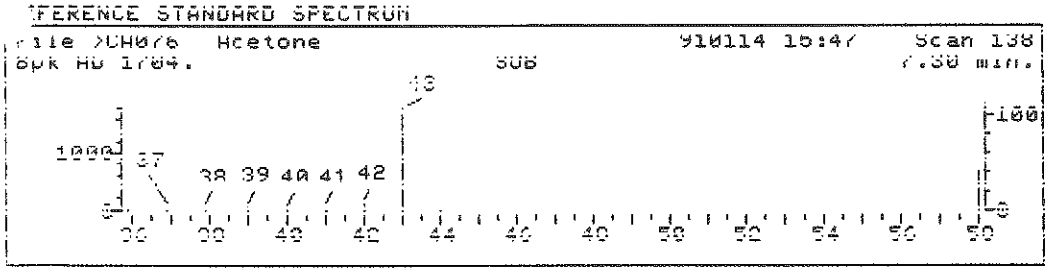
Operator ID: LEE Quant Rev: 6 Quant Time: 930603 11:18
Output File: ^CF050::OU Injected at: 930603 10:36
Data File: >CF050::C1 Dilution Factor: 1.00000
Name: 0603VBLK C1
Misc: GC/MS C,LWB,5ul IS,SS/5mls

ID File: IDUCED::IC
Title: HSL VOLATILES
Last Calibration: 930603 10:25

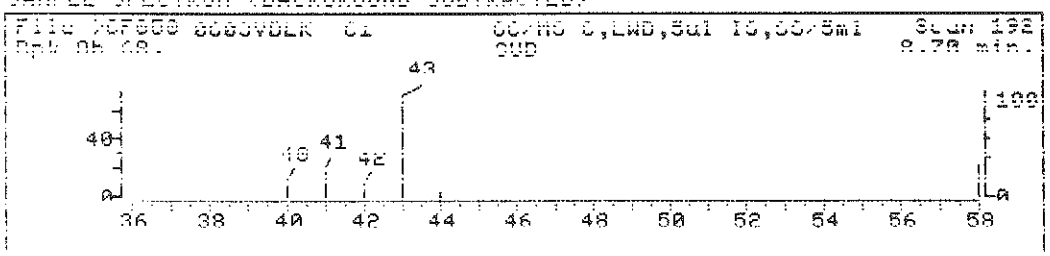
	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	14307	50.00	ug/L	82
7)	Acetone	43.0	192	1396	8.96	ug/L	92
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	323	28320	42.52	ug/L	96
19)	*1,4-Difluorobenzene	114.0	518	59718	50.00	ug/L	100
33)	*Chlorobenzene-d5	117.0	642	37623	50.00	ug/L	96
45)	BROMOFLUOROBENZENE (SURR)	95.0	763	55585	44.65	ug/L	83
46)	TOLUENE-d8 (SURR)	98.0	613	65116	44.78	ug/L	93

* Compound is ISTD

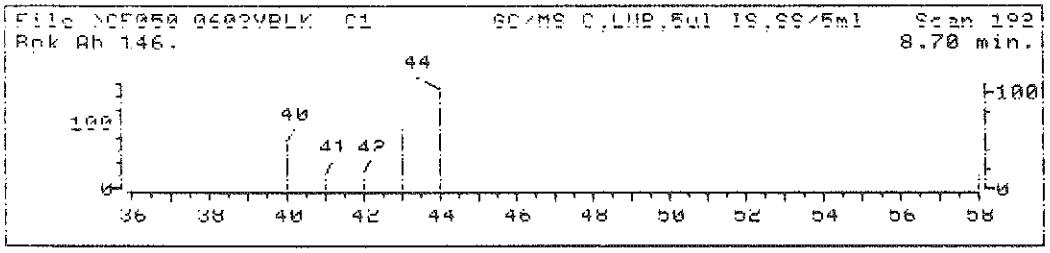
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >CF050::C1 Quant Output File: ^CF050::OU
Name: 0603VBLK C1
Misc: GC/MS C,LWB,5ul IS,SS/5mls
Quant Time: 930603 11:18 Quant ID File: IDUCED::IC
Injected at: 930603 10:36 Last Calibration: 930603 10:25

Compound No: 7
Compound Name: Acetone
Scan Number: 192
Retention Time: 8.70 min.
Quant Ion: 43.0
Area: 1396
Concentration: 8.96 ug/L
q-value: 92

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0605HBLK C1

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix: SOIL Lab Sample ID: 0605HBLK C1

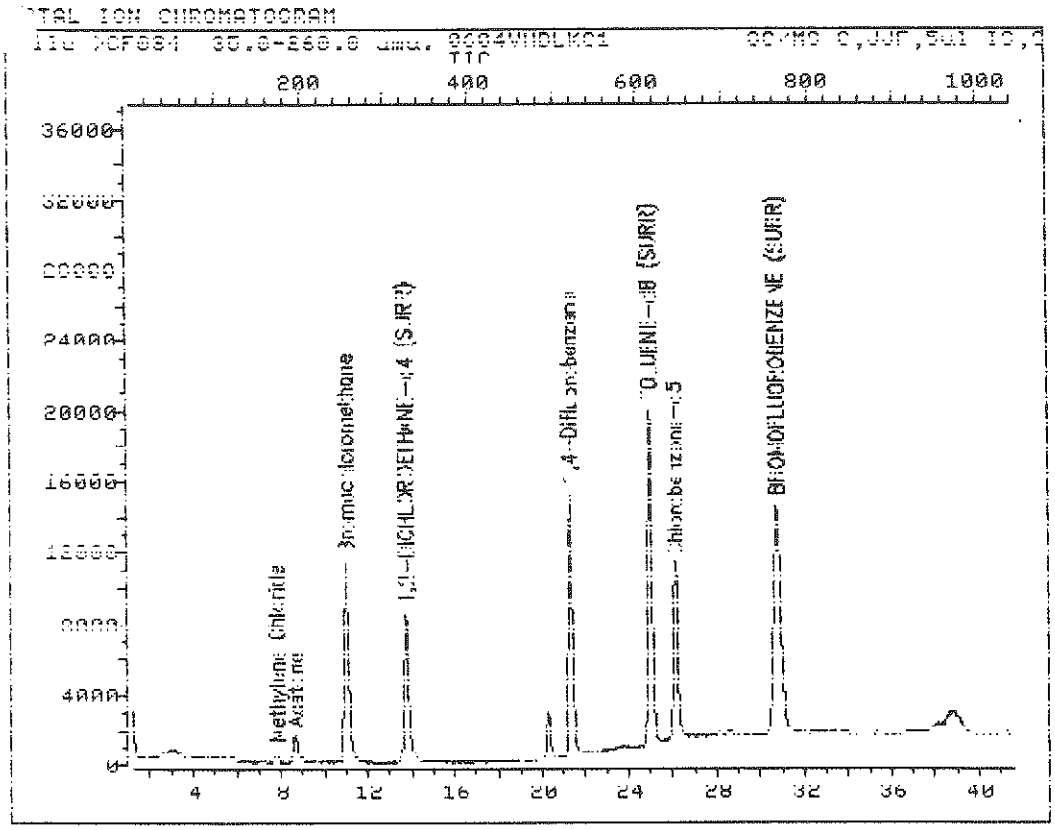
Sample (wt/vol): 5 G Lab File ID: >CF084

Level: LOW Date Received: N.A.

% Moisture: not dec. N.A. Date Analyzed: 6/05/93

Column: PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	2.	J
67-64-1	Acetone	41.	J
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (Total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
110-75-8	2-Chloroethylvinylether	10.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (Total)	5.	U



Data File: >CF084::C1 Quant Output File: ^CF084::OU
Name: 0604VHBLKC1
Misc: GC/MS C,JJF,5ul IS,SS/5mls

Id File: I9HCFD::IC
Title: HSL VOLATILES
Last Calibration: 930605 17:46

Operator ID: ZIPPY
Quant Time: 930605 18:24
Injected at: 930605 17:42

QUANT REPORT

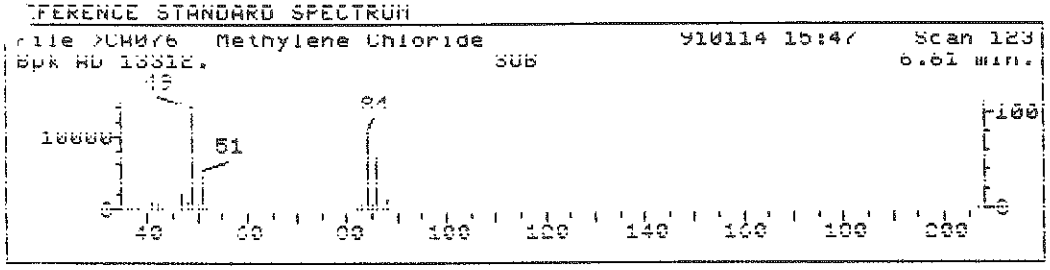
Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930605 18:24
Output File: ^CF084::OU Injected at: 930605 17:42
Data File: >CF084::C1 Dilution Factor: 1.00000
Name: 0604VHBLKC1
Misc: GC/MS C,JJF,5ul IS,SS/5mls

ID File: I9HCFD::IC
Title: HSL VOLATILES
Last Calibration: 930605 17:46

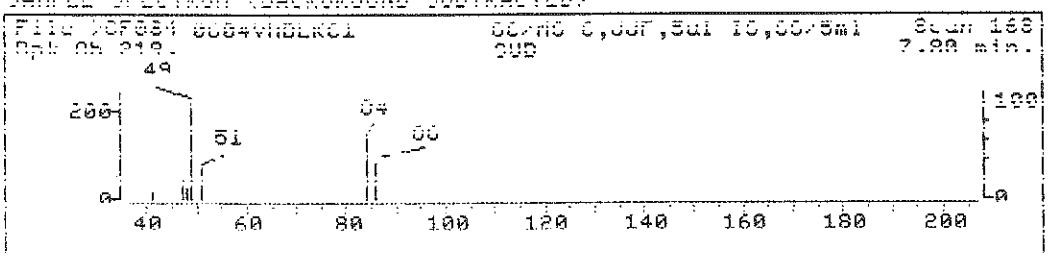
	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	251	18636	50.00	ug/L	81
6)	Methylene Chloride	84.0	168	1708	2.37	ug/L	90
7)	Acetone	43.0	190	18619	41.23	ug/L	84
17)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	322	38878	51.51	ug/L	98
19)	*1,4-Difluorobenzene	114.0	517	71449	50.00	ug/L	100
33)	*Chlorobenzene-d5	117.0	641	40418	50.00	ug/L	95
45)	BROMOFLUOROBENZENE (SURR)	95.0	761	62935	51.70	ug/L	86
46)	TOLUENE-d8 (SURR)	98.0	612	81712	50.97	ug/L	91

* Compound is ISTD

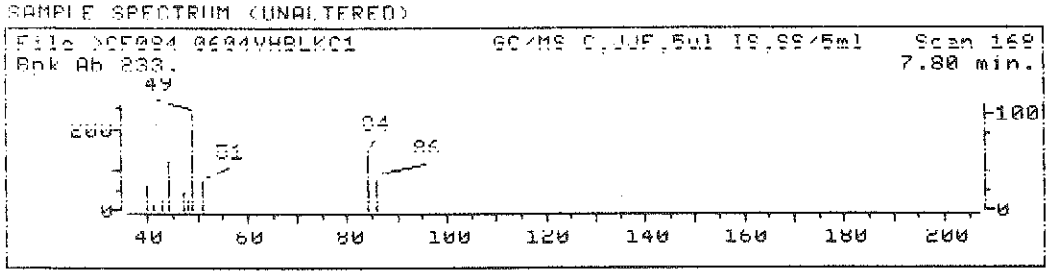
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



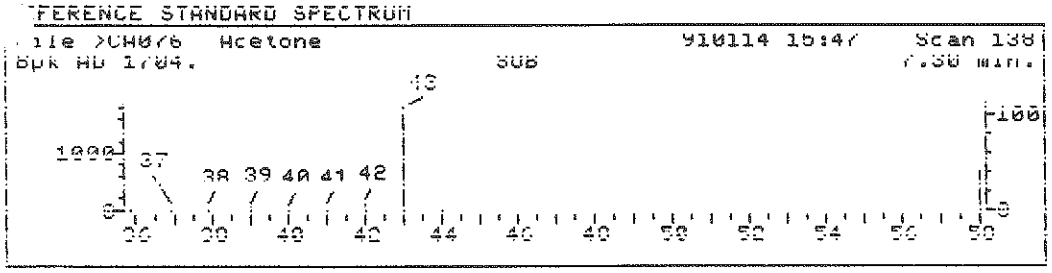
SAMPLE SPECTRUM (UNALTERED)



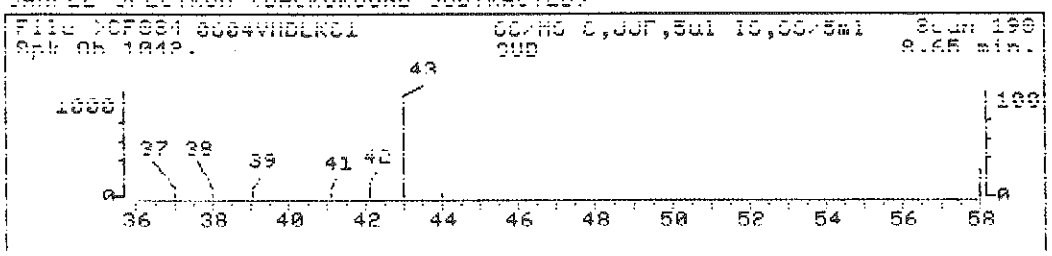
Data File: >CF084::C1 Quant Output File: ^CF084::OU
Name: 0604VHBLKC1
Misc: GC/MS C,JJF,5ul IS,SS/5mls
Quant Time: 930605 18:24 Quant ID File: I9HCFD::IC
Injected at: 930605 17:42 Last Calibration: 930605 17:46

Compound No: 6
Compound Name: Methylene Chloride
Scan Number: 168
Retention Time: 7.80 min.
Quant Ion: 84.0
Area: 1708
Concentration: 2.37 ug/L
q-value: 90

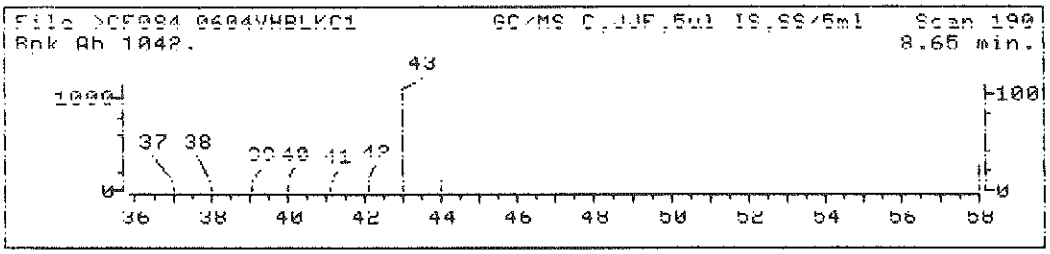
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >CF084::C1 Quant Output File: ^CF084::OU
Name: 0604VHBLKC1
Misc: GC/MS C,JJF,5ul IS,SS/5mls
Quant Time: 930605 18:24 Quant ID File: I9HCFD::IC
Injected at: 930605 17:42 Last Calibration: 930605 17:46

Compound No: 7
Compound Name: Acetone
Scan Number: 190
Retention Time: 8.65 min.
Quant Ion: 43.0
Area: 18619
Concentration: 41.23 ug/L
q-value: 84

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0617VBLK A1

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix: WATER Lab Sample ID: 0617VBLK A1

Sample (wt/vol): 5 mL Lab File ID: >AF268

Level: LOW Date Received: N.A.

% Moisture: not dec. N.A. Date Analyzed: 6/17/93

Column: CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	2.	J
67-64-1	Acetone	5.	J
75-15-0	Carbon Disulfide	3.	J
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
110-75-8	2-Chloroethylvinylether	10.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	m + p-Xylenes	5.	U
95-47-6	o-Xylene	5.	U

AMERICAN ENVIRONMENTAL NETWORK, Inc.
VOLATILE ORGANIC ANALYSIS - TABULATED REPORT
TCLP Analysis

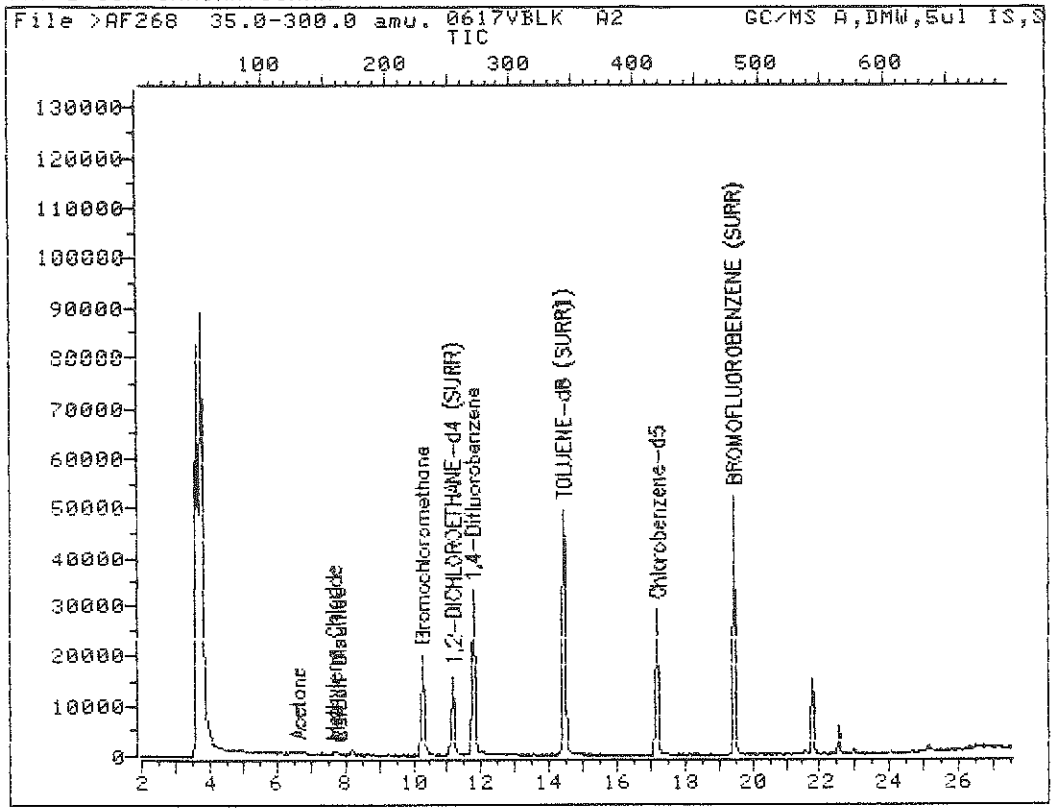
Lab Data File:	>AF268	Method Number:	TCLP
Sample Name:	0617VBLK A2	Date Analyzed:	930617
Matrix:	Water	Date Collected:	N.A.
Dilution Factor:	1.0	Date Received:	N.A.

Sample Info.: GC/MS A,DMW,5ul IS,SS/5mls

U = not detected
J = estimated value, below detection limit
B = analyte detected in Method Blank

Compound	Concentration ug/L of Leachate	Detection Limit	
Vinyl Chloride		10	U
1,1-Dichloroethene		5	U
2-Butanone		10	U
Chloroform		5	U
1,2-Dichloroethane		5	U
Carbon Tetrachloride		5	U
Benzene		5	U
Trichloroethene		5	U
Tetrachloroethene		5	U
Chlorobenzene		5	U
1,4-Dichlorobenzene		5	U

TOTAL ION CHROMATOGRAM



Data File: >AF268::C2 Quant Output File: ^AF268::OU
Name: 0617VBLK A2
Misc: GC/MS A,DMW,5ul IS,SS/5mls

Id File: IDVAFD::ID
Title: HSL VOLATILES
Last Calibration: 930617 17:36

Operator ID: ZIPPY
Quant Time: 930617 19:47
Injected at: 930617 19:19

QUANT REPORT

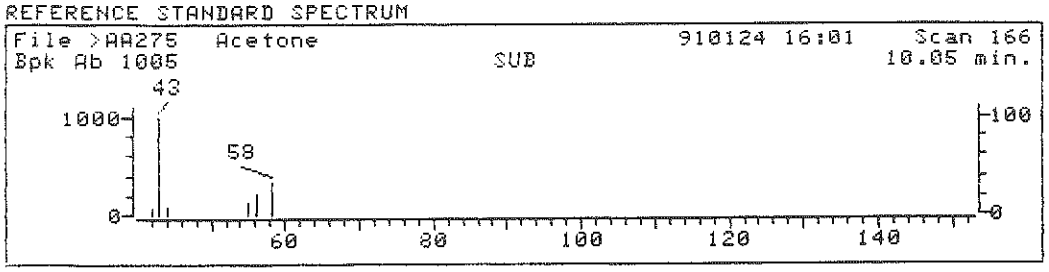
Operator ID: ZIPPY Quant Rev: 6 Quant Time: 930617 19:47
Output File: ^AF268::OU Injected at: 930617 19:19
Data File: >AF268::C2 Dilution Factor: 1.00000
Name: 0617VBLK A2
Misc: GC/MS A,DMW,5ul IS,SS/5mls

ID File: IDVAFD::ID
Title: HSL VOLATILES
Last Calibration: 930617 17:36

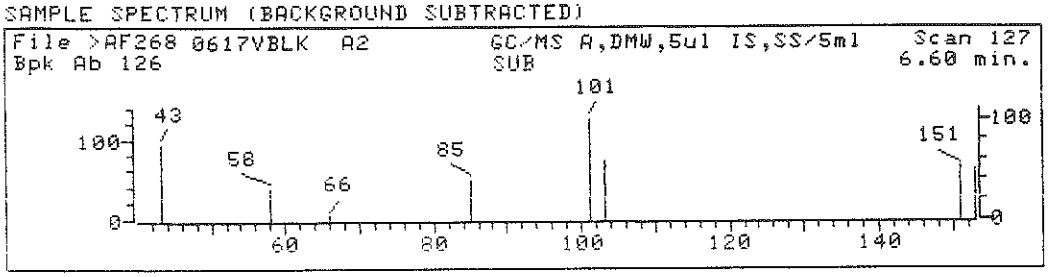
	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	128.0	227	20328	50.00	ng/mL	64
7)	Acetone	43.0	127	1151	4.53	ng/mL	80
11)	Methylene Chloride	84.0	156	1413	1.52	ng/mL	40
12)	Carbon Disulfide	76.0	160	1138	2.75	ng/mL	100
18)	1,2-DICHLOROETHANE-d4 (SURR)	65.0	252	29294	47.87	ng/mL	100
20)	*1,4-Difluorobenzene	114.0	268	90803	50.00	ng/mL	99
30)	TOLUENE-d8 (SURR1)	98.0	341	121208	49.70	ng/mL	93
35)	*Chlorobenzene-d5	82.0	417	34580	50.00	ng/mL	95
46)	BROMOFLUOROBENZENE (SURR)	95.0	479	61673	49.04	ng/mL	82
50)	TOLUENE-d8 (SURR)	98.0	341	121208	49.59	ng/mL	93

* Compound is ISTD

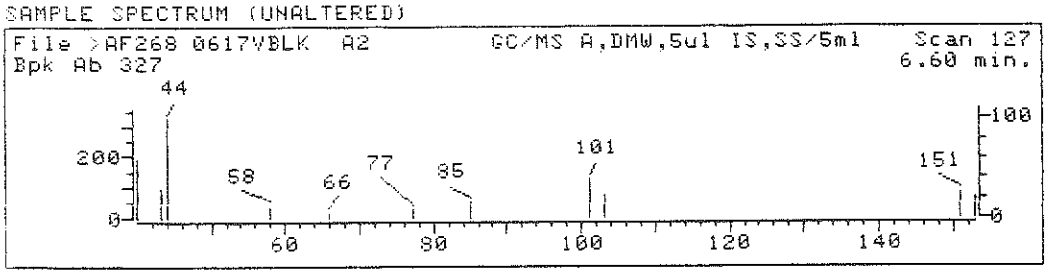
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



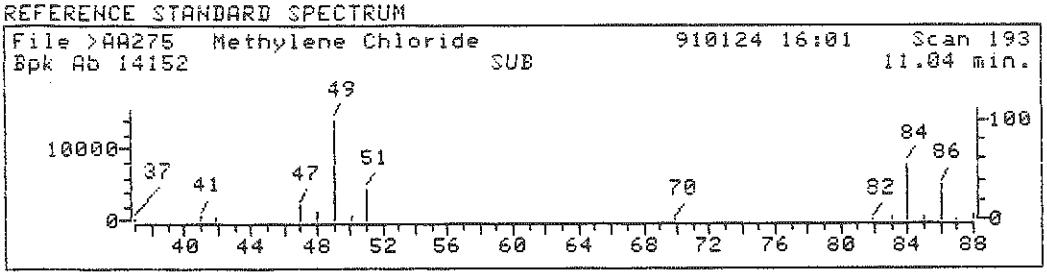
SAMPLE SPECTRUM (UNALTERED)



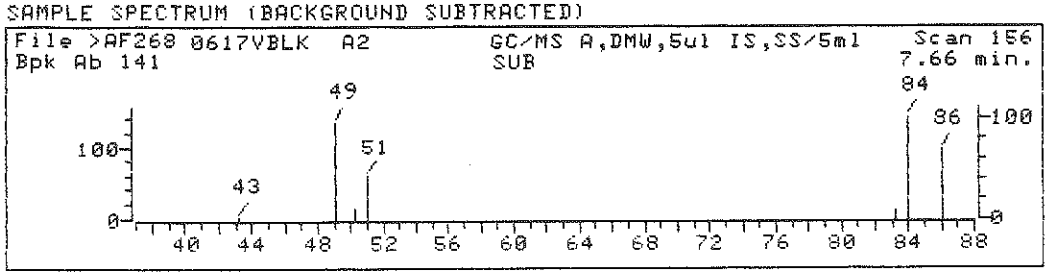
Data File: >AF268::C2 Quant Output File: ^AF268::OU
Name: 0617VBLK A2
Misc: GC/MS A,DMW,5ul IS,SS/5mls
Quant Time: 930617 19:47 Quant ID File: IDVAFD::ID
Injected at: 930617 19:19 Last Calibration: 930617 17:36

Compound No: 7
Compound Name: Acetone
Scan Number: 127
Retention Time: 6.60 min.
Quant Ion: 43.0
Area: 1151
Concentration: 4.53 ng/mL
q-value: 80

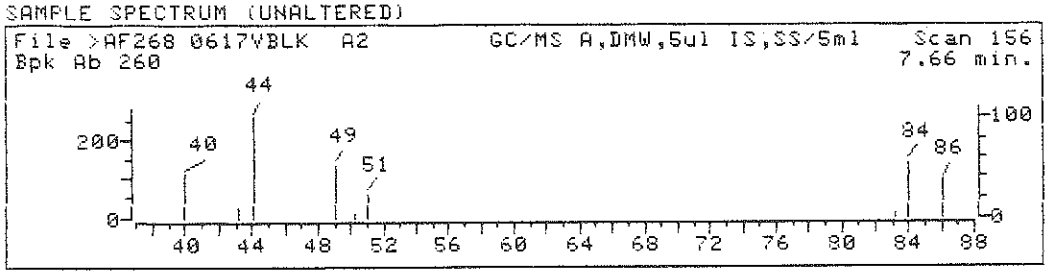
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



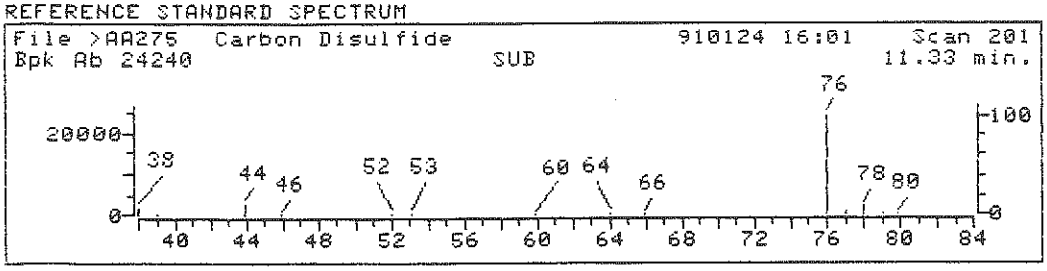
SAMPLE SPECTRUM (UNALTERED)



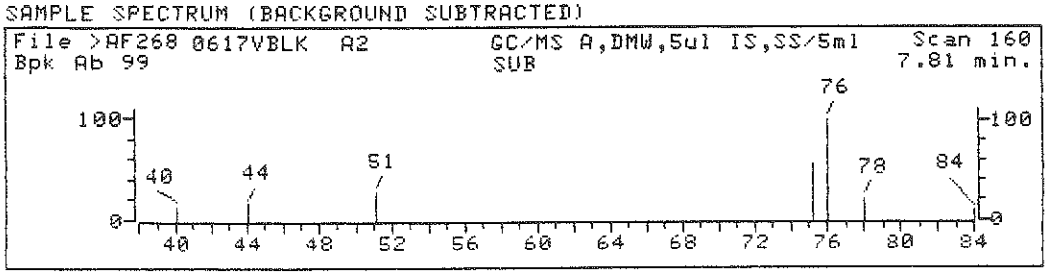
Data File: >AF268::C2 Quant Output File: ^AF268::OU
Name: 0617VBLK A2
Misc: GC/MS A,DMW,5ul IS,SS/5mls
Quant Time: 930617 19:47 Quant ID File: IDVAFD::ID
Injected at: 930617 19:19 Last Calibration: 930617 17:36

Compound No: 11
Compound Name: Methylene Chloride
Scan Number: 156
Retention Time: 7.66 min.
Quant Ion: 84.0
Area: 1413
Concentration: 1.52 ng/mL
q-value: 40

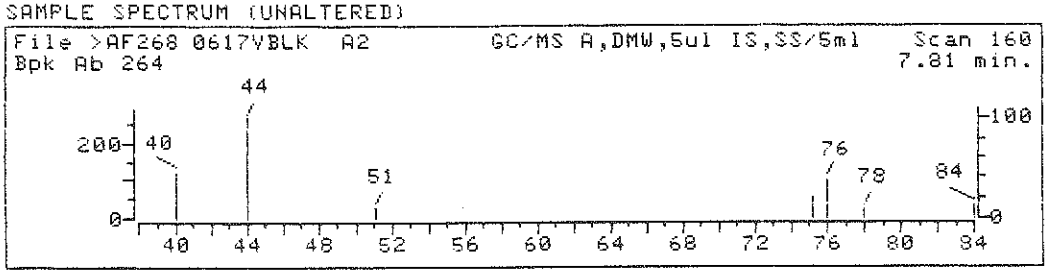
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >AF268::C2 Quant Output File: ^AF268::OU
Name: 0617VBLK A2
Misc: GC/MS A,DMW,5ul IS,SS/5mls
Quant Time: 930617 19:47 Quant ID File: IDVAFD::ID
Injected at: 930617 19:19 Last Calibration: 930617 17:36

Compound No: 12
Compound Name: Carbon Disulfide
Scan Number: 160
Retention Time: 7.81 min.
Quant Ion: 76.0
Area: 1138
Concentration: 2.75 ng/mL
q-value: 100

Section a).

QC SUMMARY

Surrogate Recovery (form II)
MS/MSD Recovery (form III)
Daily Blank Summary (form IV)
GC/MS Tuning and Calibration (form V)
Internal Standard Area Summary (form VIII)

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

	EPA / CLIENT SAMPLE ID	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	TOT OUT
01	0526-BC BLK	98	79	74	36	64	72	0
02	0526-BC LCS	95	82	75	41	69	74	0
03	PAD-RINSE-06	83	85	80	42	64	74	0
04								
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		QC LIMITS 2/88	QC LIMITS LAB
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	(53-124)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	(58-121)
S3 (TPH)	= Terphenyl-d14	(33-141)	(63-176)
S4 (PHL)	= Phenol-d5	(10-94)	(21-102)
S5 (2FP)	= 2-Fluorophenol	(21-100)	(26-94)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	(24-82)

Column to be used to flag recovery values
+ Values outside of contract required QC limits
* Values outside of LAB generated QC limits
D Surrogates diluted out

FORM II SV-1 2/88 Rev.

OS

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

	EPA / CLIENT SAMPLE ID	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	TOT OUT
01	PAD-WASH-03	61	68	70	39	49	78	0
02								
03								
04								
05								
06								
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		QC LIMITS 2/88	QC LIMITS LAB
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	(53-124)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	(58-121)
S3 (TPH)	= Terphenyl-d14	(33-141)	(63-176)
S4 (PHL)	= Phenol-d5	(10-94)	(21-102)
S5 (2FP)	= 2-Fluorophenol	(21-100)	(26-94)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	(24-82)

Column to be used to flag recovery values

* Values outside of the LAB generated QC limits

D Surrogates diluted out

FORM II SV-1 SW-846

05

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Level: LOW

	EPA / CLIENT SAMPLE ID	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	TOT OUT
01	0526-AB BLK	30	31	35 *	25	21	26	1
02	P#1CONCR.09	55	55	58	57	30	26	0
03	P#2CONCR.12	57	57	63	58	40	22	0
04	P#2CONCR12 MS	47	49	60	50	42	40	0
05	P#2CONCR12 MSD	52	48	59	49	85	43	0
06								
07								
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		QC LIMITS 2/88	QC LIMITS LAB
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	(14-101)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	(29-105)
S3 (TPH)	= Terphenyl-d14	(18-137)	(42-155)
S4 (PHL)	= Phenol-d5	(24-113)	(13-73)
S5 (2FP)	= 2-Fluorophenol	(25-121)	(14-69)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	(10-102)

Column to be used to flag recovery values
* Values outside of LAB generated QC limits
D Surrogates diluted out

3C
WATER SEMIVOLATILE MATRIX SPIKE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix Spike - EPA / CLIENT ID: 0526-BC LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	200.00	0.00	97.00	48	12- 89
2-Chlorophenol	200.00	0.00	160.00	79	27-123
1,4-Dichlorobenzene	100.00	0.00	86.00	85	36- 97
N-Nitroso-Di-n-Prop.(1)	100.00	0.00	92.00	91	41-116
1,2,4-Trichlorobenzene	100.00	0.00	82.00	82	39- 98
4-Chloro-3-methylphenol	200.00	0.00	170.00	82	23- 97
Acenaphthene	100.00	0.00	110.00	105	46-118
4-Nitrophenol	200.00	0.00	74.00	36	10- 80
2,4-Dinitrotoluene	100.00	0.00	92.00	91	24- 96
Pentachlorophenol	200.00	0.00	160.00	80	9-103
Pyrene	100.00	0.00	76.00	76	26-127

(1) N-Nitroso-di-n-propylamine

* Values outside of qc limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

FORM III SV-1 2/88 Rev.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix Spike - EPA / CLIENT ID: P#2CONCR.12 Level: LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8450.00	0.00	8250.00	97 *	26- 90
2-Chlorophenol	8450.00	0.00	7450.00	88	25-102
1,4-Dichlorobenzene	4220.00	0.00	4180.00	99	28-104
N-Nitroso-di-n-prop.(1)	4220.00	0.00	4640.00	109	41-126
1,2,4-Trichlorobenzene	4220.00	0.00	3920.00	92	38-107
4-Chloro-3-methylphenol	8450.00	0.00	8270.00	97	26-103
Acenaphthene	4220.00	0.00	4200.00	99	31-137
4-Nitrophenol	8450.00	0.00	8400.00	99	11-114
2,4-Dinitrotoluene	4220.00	0.00	4930.00	116 *	28- 89
Pentachlorophenol	8450.00	0.00	5680.00	67	17-109
Pyrene	4220.00	0.00	5420.00	128	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8450.00	6570.00	77	22	35	26- 90
2-Chlorophenol	8450.00	7540.00	89	1	50	25-102
1,4-Dichlorobenzene	4220.00	4120.00	97	2	27	28-104
N-Nitroso-di-n-prop.(1)	4220.00	3950.00	93	15	38	41-126
1,2,4-Trichlorobenzene	4220.00	4020.00	95	3	23	38-107
4-Chloro-3-methylphenol	8450.00	7860.00	93	4	33	26-103
Acenaphthene	4220.00	4970.00	117	16	19	31-137
4-Nitrophenol	8450.00	8850.00	105	6	50	11-114
2,4-Dinitrotoluene	4220.00	4740.00	112 *	3	47	28- 89
Pentachlorophenol	8450.00	5870.00	69	2	47	17-109
Pyrene	4220.00	5210.00	123	3	36	35-142

(1) N-Nitroso-di-n-propylamine

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

RPD: 0 out of 11 outside limits
Spike Recovery: 3 out of 22 outside limits

COMMENTS: _____

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID: >DF032 Lab Sample ID: 0526-BC BLK

Date Extracted: 05/26/93 Extraction: CONT

Date Analyzed: 6/07/93 Time Analyzed: 18:59

Matrix: WATER Level: LOW

Instrument ID: HP5970-D

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0526-BC LCS	0526-BC LCS	>DF033	6/07/93
02	AE#7897	PAD-RINSE-06	>DF034	6/07/93
03	AE#7898	PAD-WASH-03	>DF152	6/19/93
04				
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06				
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08				
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COMMENTS: _____

FORM IV SV 2/88 Rev.

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SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID: >DF153 Lab Sample ID: 0526-AB BLK

Date Extracted: 05/26/93 Extraction: SONC

Date Analyzed: 6/19/93 Time Analyzed: 20:09

Matrix: SOIL Level: LOW

Instrument ID: HP5970-D

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AE#7904	P#1CONCR.09	>DF099	6/15/93
02	AE#7905	P#2CONCR.12	>DF100	6/15/93
03	AE#7905	P#2CONCR12 MS	>DF101	6/15/93
04	AE#7905	P#2CONCR12 MSD	>DF125	6/16/93
05				
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COMMENTS: _____

FORM IV SV 2/88 Rev.

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5B

SEMIVOLATILE ORGANICS GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AMER.ENV.NTWK. Contract: N.A.

Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Lab File ID: >DE086 DFTPP Injection Date: 5/17/93

Instrument ID: HP5995-B DFTPP Injection Time: 13:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	53.3
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	64.
70	Less than 2.0% of mass 69	0.0(0.0)1
127	25.0 - 75.0% of mass 198	40.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	18.1
365	Greater than 0.75% of mass 198	1.35
441	Present, but less than mass 443	5.4
442	40.0 - 110.0% of mass 198	40.8
443	15.0 - 24.0% of mass 442	7.5(18.3)2

1-Value is % mass 69 2-Value is % mass 442

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0517S3D3	0517S3D3	>DE089	5/17/93	16:53
02	0517S4D3	0517S4D3	>DE090	5/17/93	17:43
03	0517S5D3	0517S5D3	>DE091	5/17/93	18:33
04	0517S1D3	0517S1D3	>DE092	5/17/93	19:22
05	0517S2D3	0517S2D3	>DE093	5/17/93	20:12
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FORM V SV 3/90 Rev.

SEMIVOLATILE ORGANICS GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID: >DF030 DFTPP Injection Date: 6/07/93

Instrument ID: HP5970-D DFTPP Injection Time: 15:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.5
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	73.
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	42.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	19.0
365	Greater than 1.00% of mass 198	1.58
441	Present, but less than mass 443	5.6
442	Greater than 40.0% of mass 198	40.1
443	17.0 - 23.0% of mass 442	7.2(18.0)2

1-Value is % mass 69 2-Value is % mass 442

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0607S2D1	0607S2D1	>DF031	6/07/93	16:29
02	0526-BC BLK	0526-BC BLK	>DF032	6/07/93	18:59
03	0526-BC LCS	0526-BC LCS	>DF033	6/07/93	19:49
04	AE#7897	PAD-RINSE-06	>DF034	6/07/93	20:39
05					
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FORM V SV 2/88 Rev.

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5B

SEMIVOLATILE ORGANICS GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AMER.ENV.NTWK. Contract: N.A.

Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Lab File ID: >DF088 DFTPP Injection Date: 6/14/93

Instrument ID: HP5970-D DFTPP Injection Time: 16:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.8
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	72.
70	Less than 2.0% of mass 69	.1(.2)1
127	40.0 - 60.0% of mass 198	40.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 1.00% of mass 198	2.28
441	Present, but less than mass 443	12.2
442	Greater than 40.0% of mass 198	88.5
443	17.0 - 23.0% of mass 442	16.9(19.1)2

1-Value is % mass 69 2-Value is % mass 442

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0614S1D3	0614S1D3	>DF090	6/14/93	19:00
02	0614S2D3	0614S2D3	>DF091	6/14/93	19:50
03	0614S3D3	0614S3D3	>DF092	6/14/93	20:40
04	0614S4D3	0614S4D3	>DF093	6/14/93	21:31
05	0614S5D3	0614S5D3	>DF094	6/14/93	22:21
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SEMIVOLATILE ORGANICS GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID: >DF097 DFTPP Injection Date: 6/15/93

Instrument ID: HP5970-D DFTPP Injection Time: 8:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.4
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	68.
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	40.3
197	Less than 1.0% of mass 198	.4
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.00% of mass 198	2.06
441	Present, but less than mass 443	7.8
442	Greater than 40.0% of mass 198	55.9
443	17.0 - 23.0% of mass 442	10.1(18.0)2

1-Value is % mass 69 2-Value is % mass 442

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0615S2D1	0615S2D1	>DF098	6/15/93	9:16
02	AE#7904	P#1CONCR.09	>DF099	6/15/93	11:31
03	AE#7905	P#2CONCR.12	>DF100	6/15/93	12:21
04	AE#7905	P#2CONCR12 MS	>DF101	6/15/93	13:11
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FORM V SV 2/88 Rev.

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SEMIVOLATILE ORGANICS GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID: >DF120 DFTPP Injection Date: 6/16/93

Instrument ID: HP5970-D DFTPP Injection Time: 15:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.0
68	Less than 2.0% of mass 69	.5(.8)1
69	Mass 69 relative abundance	67.
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	41.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 1.00% of mass 198	2.12
441	Present, but less than mass 443	10.2
442	Greater than 40.0% of mass 198	73.6
443	17.0 - 23.0% of mass 442	14.0(19.0)2

1-Value is % mass 69 2-Value is % mass 442

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0616S2D1	0616S2D1	>DF122	6/16/93	18:07
02	AE#7905	P#2CONCR12 MSD	>DF125	6/16/93	21:44
03					
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FORM V SV 2/88 Rev.

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SEMIVOLATILE ORGANICS GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID: >DF147 DFTPP Injection Date: 6/19/93

Instrument ID: HP5970-D DFTPP Injection Time: 15:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.1
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	71.
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	40.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 1.00% of mass 198	1.49
441	Present, but less than mass 443	6.8
442	Greater than 40.0% of mass 198	49.4
443	17.0 - 23.0% of mass 442	9.7(19.6)2

1-Value is % mass 69 2-Value is % mass 442

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

	LAB SAMPLE ID	EPA / CLIENT SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0619S2D1	0619S2D1	>DF149	6/19/93	15:50
02	AE#7898	PAD-WASH-03	>DF152	6/19/93	19:18
03	0526-AB BLK	0526-AB BLK	>DF153	6/19/93	20:09
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FORM V SV 2/88 Rev.

OS
OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID (Standard): >DF031 Date Analyzed: 6/07/93

Instrument ID: HP5970-D Time Analyzed: 16:29

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	29583.	8.39	116450.	11.91	67743.	17.31
	UPPER LIMIT	59166.		232900.		135486.	
	LOWER LIMIT	14792.		58225.		33871.	
	EPA / CLIENT SAMPLE ID						
01	0526-BC BLK	31832.	8.39	116136.	11.90	72492.	17.30
02	0526-BC LCS	31027.	8.39	121051.	11.91	69661.	17.31
03	PAD-RINSE-06	29270.	8.36	117607.	11.88	69023.	17.31
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 2/88 Rev.

OS
OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID (Standard): >DF031 Date Analyzed: 6/07/93

Instrument ID: HP5970-D Time Analyze 3 16:29

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	132116.	21.90	111359.	29.87	147568.	33.18
	UPPER LIMIT	264232.		222718.		295136.	
	LOWER LIMIT	66058.		55680.		73784.	
	EPA / CLIENT SAMPLE ID						
01	0526-BC BLK	140850.	21.89	161007.	29.88	171615.	33.15
02	0526-BC LCS	137733.	21.89	151224.	29.86	160677.	33.13
03	PAD-RINSE-06	134767.	21.87	143784.	29.87	143129.	33.15
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 2/88 Rev.

OS
OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

ıb File ID (Standard): ›DF098 Date Analyzed: 6/15/93

Instrument ID: HP5970-D Time Analyzed: 9:16

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	21421.	8.10	75799.	11.59	40497.	16.97
	UPPER LIMIT	42842.		151598.		80994.	
	LOWER LIMIT	10711.		37899.		20248.	
	EPA / CLIENT SAMPLE ID						
01	P#1CONCR.09	32611.	8.19	112284.	11.63	56326.	16.98
02	P#2CONCR.12	36578.	8.23	124721.	11.65	63192.	16.96
03	P#2CONCR12 M	33245.	8.18	124505.	11.62	64521.	16.97
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 2/88 Rev.

OS
OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID (Standard): >DF098 Date Analyzed: 6/15/93

Instrument ID: HP5970-D Time Analyze 3 9:16

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	78816.	21.53	74513.	29.56	70851.	32.76
	UPPER LIMIT	157632.		149026.		141702.	
	LOWER LIMIT	39408.		37256.		35425.	
	EPA / CLIENT SAMPLE ID						
01	P#1CONCR.09	104884.	21.53	102361.	29.56	95213.	32.75
02	P#2CONCR.12	118772.	21.52	112851.	29.54	109153.	32.76
03	P#2CONCR12 M	120476.	21.52	115916.	29.54	111054.	32.76
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 2/88 Rev.

OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID (Standard): >DF122 Date Analyzed: 6/16/93

Instrument ID: HP5970-D Time Analyzed: 18:07

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	22863.	8.05	85489.	11.55	46790.	16.92
	UPPER LIMIT	45726.		170978.		93580.	
	LOWER LIMIT	11432.		42745.		23395.	
	EPA / CLIENT SAMPLE ID						
01	P#2CONCR12 M	39801.	8.14	146651.	11.58	80411.	16.93
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 2/88 Rev.

OS
OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

ıb File ID (Standard): >DF122 Date Analyzed: 6/16/93

Instrument ID: HP5970-D Time Analyze 3 18:07

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	92422.	21.48	84438.	29.51	76226.	32.70
	UPPER LIMIT	184844.		168876.		152452.	
	LOWER LIMIT	46211.		42219.		38113.	
	EPA / CLIENT SAMPLE ID						
01	P#2CONCR12 M	157082.	21.48	158108.	29.51	147257.	32.70
02							
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 2/88 Rev.

OS
OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

> File ID (Standard): >DF149 Date Analyzed: 6/19/93

Instrument ID: HP5970-D Time Analyzed: 15:50

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	24773.	8.00	92617.	11.50	51312.	16.85
	UPPER LIMIT	49546.		185234.		102624.	
	LOWER LIMIT	12387.		46309.		25656.	
	EPA / CLIENT SAMPLE ID						
01	PAD-WASH-03	24515.	7.98	89829.	11.47	50034.	16.85
02	0526-AB BLK	35154.	8.01	135069.	11.50	75808.	16.88
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 2/88 Rev.

OS
OS

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

b File ID (Standard): >DF149 Date Analyzed: 6/19/93

Instrument ID: HP5970-D Time Analyze 3 15:50

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	99968.	21.41	88027.	29.46	86386.	32.66
	UPPER LIMIT	199936.		176054.		172772.	
	LOWER LIMIT	49984.		44014.		43193.	
	EPA / CLIENT SAMPLE ID						
01	PAD-WASH-03	97980.	21.40	108390.	29.46	104035.	32.65
02	0526-AB BLK	153308.	21.43	159646.	29.48	164959.	32.67
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 2/88 Rev.

OS
OS

Section c).

STANDARDS DATA

Initial Calibrations (form VI)
Continuing Calibrations (form VII)

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AMER.ENV.NTWK. Contract: N.A.

Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5995-B Calibration Date(s): 06/14/93 N.A.

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 =>DF090 RRF50 =>DF091
RRF80 =>DF092 RRF120=>DF093 RRF160=>DF094

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.930	1.807	1.463	1.927	1.379	1.701	15.4*
bis(2-Chloroethyl)ether	1.757	1.582	1.412	1.481	1.410	1.529	9.5
2-Chlorophenol	1.500	1.239	1.289	1.331	1.190	1.310	9.1
1,3-Dichlorobenzene	1.556	1.342	1.232	1.310	1.186	1.325	10.8
1,4-Dichlorobenzene *	1.600	1.339	1.193	1.171	1.063	1.273	16.3*
Benzyl alcohol	.913	.910	.790	.869	.836	.864	6.0
1,2-Dichlorobenzene	1.480	1.159	1.036	1.077	1.006	1.152	16.7
2-Methylphenol	1.343	1.099	1.082	1.025	.967	1.103	13.0
bis(2-chloroisopropyl)ether	2.722	2.647	2.606	2.916	2.715	2.721	4.4
4-Methylphenol	1.371	1.106	1.177	1.259	1.181	1.219	8.3
N-Nitroso-di-n-propylamine #	1.273	1.068	1.115	1.289	1.287	1.206	8.8#
Hexachloroethane	.677	.569	.541	.571	.527	.577	10.3
Nitrobenzene	.452	.422	.472	.438	.470	.451	4.7
Isophorone	.918	.881	.879	.951	.754	.876	8.5
2-Nitrophenol *	.210	.186	.215	.203	.185	.200	6.8*
2,4-Dimethylphenol	.315	.279	.289	.303	.275	.292	5.8
Benzoic acid	.198	.207	.229	.246	.248	.226	9.9
bis(2-Chloroethoxy)methane	.542	.527	.516	.521	.454	.512	6.6
2,4-Dichlorophenol *	.328	.290	.294	.284	.282	.296	6.3*
1,2,4-Trichlorobenzene	.374	.334	.312	.318	.291	.326	9.6
Naphthalene	1.028	.944	.876	.936	.840	.925	7.8
4-Chloroaniline	.502	.461	.456	.425	.402	.449	8.5
Hexachlorobutadiene *	.225	.195	.172	.170	.161	.185	14.1*
4-Chloro-3-methylphenol *	.373	.356	.345	.385	.367	.365	4.3*
2-Methylnaphthalene	.699	.579	.569	.600	.553	.600	9.7
Hexachlorocyclopentadiene #	.354	.365	.346	.363	.317	.349	5.6#
2,4,6-Trichlorophenol *	.465	.416	.415	.420	.408	.425	5.4*
2,4,5-Trichlorophenol	.510	.443	.425	.459	.400	.447	9.2
2-Chloronaphthalene	1.190	1.095	1.043	1.091	.969	1.078	7.5
2-Nitroaniline	.541	.580	.602	.574	.626	.585	5.4
Dimethylphthalate	1.437	1.300	1.266	1.250	1.144	1.280	8.2
Acenaphthylene	1.802	1.813	1.503	1.574	1.439	1.626	10.6
2,6-Dinitrotoluene	.368	.368	.351	.346	.357	.358	2.9
3-Nitroaniline	.393	.366	.320	.321	.326	.345	9.4
Acenaphthene *	1.124	1.109	.878	.914	.835	.972	13.9*
2,4-Dinitrophenol #	.111	.169	.211	.247	.267	.201	31.2#
4 Nitrophenol #	.206	.207	.227	.241	.216	.219	6.7#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AMER.ENV.NTWK. Contract: N.A.

Lab Code: AENI Case No: N.A. SAS No: N.A. SDG No: N.A.

Instrument ID: HP5995-B Calibration Date(s): 06/14/93 N.A.

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 =>DF090 RRF50 =>DF091
RRF80 =>DF092 RRF120=>DF093 RRF160=>DF094

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.785	1.576	1.534	1.419	1.318	1.526	11.5
2,4-Dinitrotoluene	.561	.563	.529	.567	.496	.543	5.6
Diethylphthalate	1.545	1.334	1.103	.975	.974	1.186	20.9
4-Chlorophenyl-phenylether	.688	.572	.497	.447	.410	.523	21.1
Fluorene	1.305	1.210	1.172	1.062	.978	1.146	11.2
4-Nitroaniline	.384	.411	.392	.394	.361	.388	4.7
4,6-Dinitro-2-methylphenol	.136	.152	.157	.174	.144	.153	9.4
N-Nitrosodiphenylamine (1) *	.505	.452	.433	.434	.339	.433	13.8*
4-Bromophenyl-phenylether	.262	.232	.222	.212	.191	.224	11.7
Hexachlorobenzene	.395	.336	.321	.326	.312	.338	9.7
Pentachlorophenol *	.185	.183	.194	.218	.212	.199	8.0*
Phenanthrene	1.048	.972	.841	.909	.794	.913	11.1
Anthracene	1.076	1.005	.836	.874	.752	.909	14.4
Di-n-butylphthalate	1.471	1.371	1.336	1.233	1.116	1.306	10.4
Fluoranthene *	1.123	1.118	.993	1.066	.984	1.057	6.3*
Pyrene	1.176	1.238	1.275	1.316	1.220	1.245	4.3
Butylbenzylphthalate	.698	.664	.699	.764	.699	.705	5.2
3,3'-Dichlorobenzidine	.294	.337	.368	.408	.295	.341	14.3
Benzo(a)anthracene	1.192	1.241	1.224	1.291	1.190	1.227	3.4
Chrysene	1.141	1.122	1.013	1.002	.819	1.019	12.6
bis(2-Ethylhexyl)phthalate	.934	.930	.986	.911	.833	.919	6.0
Di-n-octylphthalate *	1.800	1.526	1.425	1.312	1.268	1.466	14.4*
Benzo(b)fluoranthene	1.333	1.372	1.531	1.550	1.356	1.428	7.3
Benzo(k)fluoranthene	1.166	1.125	1.087	1.150	1.032	1.112	4.8
Benzo(a)pyrene *	1.195	1.213	1.096	1.163	1.078	1.149	5.2*
Indeno(1,2,3-cd)pyrene	1.524	1.545	1.428	1.499	1.393	1.478	4.4
Dibenz(a,h)anthracene	1.191	1.188	1.071	1.142	1.045	1.127	5.9
Benzo(g,h,i)perylene	1.273	1.293	1.213	1.277	1.205	1.252	3.2
NITROBENZENE-d5 (SURR)	.474	.465	.465	.501	.467	.474	3.3
2-FLUOROBIPHENYL (SURR)	1.383	1.206	1.144	1.148	1.024	1.181	11.1
TERPHENYL-d14 (SURR)	1.010	.976	.942	1.016	.935	.976	3.8
PHENOL-d5 (SURR)	1.876	1.720	1.654	1.852	1.668	1.754	5.9
2-FLUOROPHENOL (SURR)	1.320	1.163	1.076	1.209	1.150	1.184	7.6
2,4,6-TRIBROMOPHENOL (SURR)	.442	.411	.405	.448	.420	.425	4.5

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AMER.ENV.NTWK. Contract:BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

'strument ID: HP5970-D Calibration Date: 6/07/93 Time: 16:29

Lab File ID: >DF031 Init. Calib. Date(s):05/17/93 05/17/93

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol *	1.563	1.219	22.0 *
bis(2-Chloroethyl)ether	1.300	1.149	11.6
2-Chlorophenol	1.217	1.082	11.1
1,3-Dichlorobenzene	1.240	1.070	13.7
1,4-Dichlorobenzene *	1.216	1.066	12.4 *
Benzyl alcohol	.733	.645	12.0
1,2-Dichlorobenzene	1.168	.957	18.1
2-Methylphenol	1.018	.953	6.4
bis(2-chloroisopropyl)ether	2.143	1.554	27.5
4-Methylphenol	1.131	1.013	10.4
N-Nitroso-di-n-propylamine #	.935	.812	13.1 #
Hexachloroethane	.550	.436	20.8
Nitrobenzene	.402	.321	20.2
Isophorone	.787	.644	18.2
2-Nitrophenol *	.202	.163	19.6 *
2,4-Dimethylphenol	.258	.231	10.5
Benzoic acid	.196	.104	47.2
bis(2-Chloroethoxy)methane	.429	.407	5.2
2,4-Dichlorophenol *	.297	.236	20.4 *
1,2,4-Trichlorobenzene	.336	.272	19.2
Naphthalene	.808	.761	5.8
4-Chloroaniline	.411	.394	4.2
Hexachlorobutadiene *	.206	.164	20.6 *
4-Chloro-3-methylphenol *	.345	.278	19.5 *
2-Methylnaphthalene	.548	.482	12.1
Hexachlorocyclopentadiene #	.341	.118	65.5 #
2,4,6-Trichlorophenol *	.423	.364	14.1 *
2,4,5-Trichlorophenol	.464	.403	13.0
2-Chloronaphthalene	.988	.883	10.7
2-Nitroaniline	.519	.443	14.7
Dimethylphthalate	1.238	1.024	17.3
Acenaphthylene	1.462	1.270	13.1
2,6-Dinitrotoluene	.370	.296	19.8
3-Nitroaniline	.477	.404	15.2
Acenaphthene *	.890	.774	13.0 *
2,4-Dinitrophenol #	.265	.061	76.9 #
4-Nitrophenol #	.192	.163	15.1 #

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AMER.ENV.NTWK. Contract:BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

strument ID: HP5970-D Calibration Date: 6/07/93 Time: 16:29

Lab File ID: >DF031 Init. Calib. Date(s):05/17/93 05/17/93

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.503	1.327	11.7
2,4-Dinitrotoluene	.521	.407	21.9
Diethylphthalate	1.214	1.123	7.5
4-Chlorophenyl-phenylether	.546	.470	14.0
Fluorene	1.142	1.029	9.9
4-Nitroaniline	.379	.341	9.9
4,6-Dinitro-2-methylphenol	.161	.084	48.1
N-Nitrosodiphenylamine (1) *	.400	.401	.5 *
4-Bromophenyl-phenylether	.220	.198	9.7
Hexachlorobenzene	.329	.294	10.9
Pentachlorophenol *	.199	.173	13.1 *
Phenanthrene	.842	.784	6.9
Anthracene	.858	.808	5.8
Di-n-butylphthalate	1.207	1.160	4.0
Fluoranthene *	1.053	.928	11.8 *
Pyrene	1.230	1.142	7.2
Butylbenzylphthalate	.711	.663	6.7
3,3'-Dichlorobenzidine	.416	.403	3.1
Benzo(a)anthracene	1.286	1.145	11.0
Chrysene	.950	.981	3.3
bis(2-Ethylhexyl)phthalate	.834	.897	7.5
Di-n-octylphthalate *	1.149	1.272	10.7 *
Benzo(b)fluoranthene	1.363	1.040	23.7
Benzo(k)fluoranthene	1.074	.806	25.0
Benzo(a)pyrene *	1.002	.907	9.5 *
Indeno(1,2,3-cd)pyrene	1.258	1.167	7.2
Dibenz(a,h)anthracene	.955	.862	9.7
Benzo(g,h,i)perylene	1.099	.986	10.3
NITROBENZENE-d5 (SURR)	.393	.344	12.5
2-FLUOROBIPHENYL (SURR)	1.065	1.003	5.8
TERPHENYL-d14 (SURR)	.938	.879	6.3
PHENOL-d5 (SURR)	1.449	1.330	8.2
2-FLUOROPHENOL (SURR)	.988	.844	14.6
2,4,6-TRIBROMOPHENOL (SURR)	.402	.380	5.5

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AMER.ENV.NTWK. Contract:BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

Instrument ID: HP5970-D Calibration Date: 6/15/93 Time: 9:16

Lab File ID: >DF098 Init. Calib. Date(s):06/14/93 N.A.

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.701	1.550	8.9	*
bis(2-Chloroethyl)ether		1.529	1.381	9.6	
2-Chlorophenol		1.310	1.145	12.6	
1,3-Dichlorobenzene		1.325	1.331	.4	
1,4-Dichlorobenzene	*	1.273	1.329	4.4	*
Benzyl alcohol		.864	.840	2.7	
1,2-Dichlorobenzene		1.152	1.165	1.1	
2-Methylphenol		1.103	.968	12.3	
bis(2-chloroisopropyl)ether		2.721	1.890	30.6	
4-Methylphenol		1.219	.982	19.4	
N-Nitroso-di-n-propylamine	#	1.206	.941	22.0	#
Hexachloroethane		.577	.555	3.8	
Nitrobenzene		.451	.388	13.9	
Isophorone		.876	.793	9.5	
2-Nitrophenol	*	.200	.182	8.8	*
2,4-Dimethylphenol		.292	.251	14.0	
Benzoic acid		.226	.186	17.7	
bis(2-Chloroethoxy)methane		.512	.463	9.6	
2,4-Dichlorophenol	*	.296	.283	4.2	*
1,2,4-Trichlorobenzene		.326	.334	2.7	
Naphthalene		.925	.936	1.3	
4-Chloroaniline		.449	.446	.8	
Hexachlorobutadiene	*	.185	.208	12.9	*
4-Chloro-3-methylphenol	*	.365	.326	10.7	*
2-Methylnaphthalene		.600	.585	2.6	
Hexachlorocyclopentadiene	#	.349	.356	2.0	#
2,4,6-Trichlorophenol	*	.425	.439	3.3	*
2,4,5-Trichlorophenol		.447	.435	2.9	
2-Chloronaphthalene		1.078	1.085	.7	
2-Nitroaniline		.585	.525	10.2	
Dimethylphthalate		1.280	1.365	6.6	
Acenaphthylene		1.626	1.900	16.9	
2,6-Dinitrotoluene		.358	.356	.5	
3-Nitroaniline		.345	.375	8.5	
Acenaphthene	*	.972	1.162	19.6	*
2,4-Dinitrophenol	#	.201	.189	5.8	#
4-Nitrophenol	#	.219	.250	14.2	#

000222

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AMER.ENV.NTWK. Contract:BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

Instrument ID: HP5970-D Calibration Date: 6/15/93 Time: 9:16

Lab File ID: >DF098 Init. Calib. Date(s):06/15/93 N.A.

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.526	1.678	9.9
2,4-Dinitrotoluene	.543	.544	.2
Diethylphthalate	1.186	1.511	27.4
4-Chlorophenyl-phenylether	.523	.630	20.5
Fluorene	1.146	1.327	15.8
4-Nitroaniline	.388	.399	2.9
4,6-Dinitro-2-methylphenol	.153	.157	3.0
N-Nitrosodiphenylamine (1) *	.433	.468	8.2 *
4-Bromophenyl-phenylether	.224	.247	10.4
Hexachlorobenzene	.338	.354	4.7
Pentachlorophenol *	.199	.189	4.6 *
Phenanthrene	.913	1.065	16.7
Anthracene	.909	1.073	18.0
Di-n-butylphthalate	1.306	1.434	9.8
Fluoranthene *	1.057	1.129	6.9 *
Pyrene	1.245	1.181	5.1
Butylbenzylphthalate	.705	.636	9.8
3,3'-Dichlorobenzidine	.341	.342	.4
Benzo(a)anthracene	1.227	1.172	4.5
Chrysene	1.019	1.127	10.6
bis(2-Ethylhexyl)phthalate	.919	.679	26.1
Di-n-octylphthalate *	1.466	1.776	21.1 *
Benzo(b)fluoranthene	1.428	1.507	5.5
Benzo(k)fluoranthene	1.112	1.092	1.8
Benzo(a)pyrene *	1.149	1.168	1.7 *
Indeno(1,2,3-cd)pyrene	1.478	1.481	.2
Dibenz(a,h)anthracene	1.127	1.157	2.7
Benzo(g,h,i)perylene	1.252	1.189	5.0
NITROBENZENE-d5 (SURR)	.474	.439	7.4
2-FLUOROBIPHENYL (SURR)	1.181	1.264	7.0
TERPHENYL-d14 (SURR)	.976	.971	.5
PHENOL-d5 (SURR)	1.754	1.484	15.4
2-FLUOROPHENOL (SURR)	1.184	1.128	4.7
2,4,6-TRIBROMOPHENOL (SURR)	.425	.446	4.9

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AMER.ENV.NTWK. Contract:BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

strument ID: HP5970-D Calibration Date: 6/16/93 Time: 18:07

Lab File ID: >DF122 Init. Calib. Date(s):06/14/93 N.A.

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Phenol *	1.701	1.626	4.4 *
bis(2-Chloroethyl)ether	1.529	1.291	15.5
2-Chlorophenol	1.310	1.250	4.6
1,3-Dichlorobenzene	1.325	1.235	6.8
1,4-Dichlorobenzene *	1.273	1.267	.5 *
Benzyl alcohol	.864	.693	19.8
1,2-Dichlorobenzene	1.152	1.191	3.4
2-Methylphenol	1.103	1.129	2.3
bis(2-chloroisopropyl)ether	2.721	2.042	25.0
4-Methylphenol	1.219	1.227	.7
N-Nitroso-di-n-propylamine #	1.206	1.166	3.4 #
Hexachloroethane	.577	.525	8.9
Nitrobenzene	.451	.426	5.5
Isophorone	.876	.808	7.8
2-Nitrophenol *	.200	.213	6.6 *
2,4-Dimethylphenol	.292	.283	3.1
Benzoic acid	.226	.181	19.8
bis(2-Chloroethoxy)methane	.512	.432	15.6
2,4-Dichlorophenol *	.296	.310	4.9 *
1,2,4-Trichlorobenzene	.326	.334	2.7
Naphthalene	.925	.905	2.1
4-Chloroaniline	.449	.465	3.5
Hexachlorobutadiene *	.185	.207	12.0 *
4-Chloro-3-methylphenol *	.365	.370	1.3 *
2-Methylnaphthalene	.600	.620	3.4
Hexachlorocyclopentadiene #	.349	.285	18.3 #
2,4,6-Trichlorophenol *	.425	.455	7.0 *
2,4,5-Trichlorophenol	.447	.500	11.7
2-Chloronaphthalene	1.078	1.144	6.2
2-Nitroaniline	.585	.543	7.1
Dimethylphthalate	1.280	1.441	12.6
Acenaphthylene	1.626	1.706	4.9
2,6-Dinitrotoluene	.358	.351	2.1
3-Nitroaniline	.345	.379	9.7
Acenaphthene *	.972	.999	2.7 *
2,4-Dinitrophenol #	.201	.121	39.8 #
4-Nitrophenol #	.219	.222	1.3 #

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AMER.ENV.NTWK. Contract:BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

strument ID: HP5970-D Calibration Date: 6/16/93 Time: 18:07

Lab File ID: >DF122 Init. Calib. Date(s):06/14/93 N.A.

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.526	1.682	10.2
2,4-Dinitrotoluene	.543	.535	1.6
Diethylphthalate	1.186	1.432	20.8
4-Chlorophenyl-phenylether	.523	.622	19.0
Fluorene	1.146	1.318	15.0
4-Nitroaniline	.388	.410	5.6
4,6-Dinitro-2-methylphenol	.153	.123	19.7
N-Nitrosodiphenylamine (1) *	.433	.503	16.2 *
4-Bromophenyl-phenylether	.224	.236	5.3
Hexachlorobenzene	.338	.343	1.3
Pentachlorophenol *	.199	.151	23.7 *
Phenanthrene	.913	.960	5.1
Anthracene	.909	.956	5.2
Di-n-butylphthalate	1.306	1.401	7.3
Fluoranthene *	1.057	1.063	.5 *
Pyrene	1.245	1.176	5.5
Butylbenzylphthalate	.705	.702	.4
3,3'-Dichlorobenzidine	.341	.396	16.4
Benzo(a)anthracene	1.227	1.129	8.0
Chrysene	1.019	.959	5.9
bis(2-Ethylhexyl)phthalate	.919	.919	.1
Di-n-octylphthalate *	1.466	1.497	2.1 *
Benzo(b)fluoranthene	1.428	1.677	17.4
Benzo(k)fluoranthene	1.112	1.239	11.4
Benzo(a)pyrene *	1.149	1.186	3.2 *
Indeno(1,2,3-cd)pyrene	1.478	1.385	6.3
Dibenz(a,h)anthracene	1.127	1.049	7.0
Benzo(g,h,i)perylene	1.252	1.096	12.5
NITROBENZENE-d5 (SURR)	.474	.436	8.2
2-FLUOROBIPHENYL (SURR)	1.181	1.320	11.8
TERPHENYL-d14 (SURR)	.976	.937	4.0
PHENOL-d5 (SURR)	1.754	1.541	12.1
2-FLUOROPHENOL (SURR)	1.184	1.051	11.2
2,4,6-TRIBROMOPHENOL (SURR)	.425	.412	3.1

(1) Cannot be separated from Diphenylamine

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

Instrument ID: HP5970-D Calibration Date: 6/19/93 Time: 15:50

Lab File ID: >DF149 Init. Calib. Date(s): 06/14/93 N.A.

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	$\overline{RRF}$	RRF50	%D
Dibenzofuran	1.526	1.685	10.4
2,4-Dinitrotoluene	.543	.555	2.2
Diethylphthalate	1.186	1.333	12.4
4-Chlorophenyl-phenylether	.523	.628	20.1
Fluorene	1.146	1.339	16.9
4-Nitroaniline	.388	.362	6.7
4,6-Dinitro-2-methylphenol	.153	.151	1.0
N-Nitrosodiphenylamine (1) *	.433	.460	6.3 *
4-Bromophenyl-phenylether	.224	.238	6.3
Hexachlorobenzene	.338	.353	4.3
Pentachlorophenol *	.199	.204	2.6 *
Phenanthrene	.913	.945	3.5
Anthracene	.909	.930	2.3
Di-n-butylphthalate	1.306	1.250	4.3
Fluoranthene *	1.057	1.094	3.5 *
Pyrene	1.245	1.294	3.9
Butylbenzylphthalate	.705	.655	7.1
3,3'-Dichlorobenzidine	.341	.397	16.7
Benzo(a)anthracene	1.227	1.252	2.0
Chrysene	1.019	1.141	11.9
bis(2-Ethylhexyl)phthalate	.919	.924	.6
Di-n-octylphthalate *	1.466	1.762	20.2 *
Benzo(b)fluoranthene	1.428	1.437	.6
Benzo(k)fluoranthene	1.112	1.228	10.5
Benzo(a)pyrene *	1.149	1.200	4.5 *
Indeno(1,2,3-cd)pyrene	1.478	1.370	7.3
Dibenz(a,h)anthracene	1.127	1.210	7.4
Benzo(g,h,i)perylene	1.252	1.370	9.4
NITROBENZENE-d5 (SURR)	.474	.454	4.2
2-FLUOROBIPHENYL (SURR)	1.181	1.316	11.4
TERPHENYL-d14 (SURR)	.976	.994	1.9
PHENOL-d5 (SURR)	1.754	1.559	11.1
2-FLUOROPHENOL (SURR)	1.184	1.063	10.2
2,4,6-TRIBROMOPHENOL (SURR)	.425	.443	4.2

(1) Cannot be separated from Diphenylamine

000228

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:AMER.ENV.NTWK. Contract:BASC-0102

Lab Code: AENI Case No.: CINCIN. SAS No.: N.A. SDG No.: N.A.

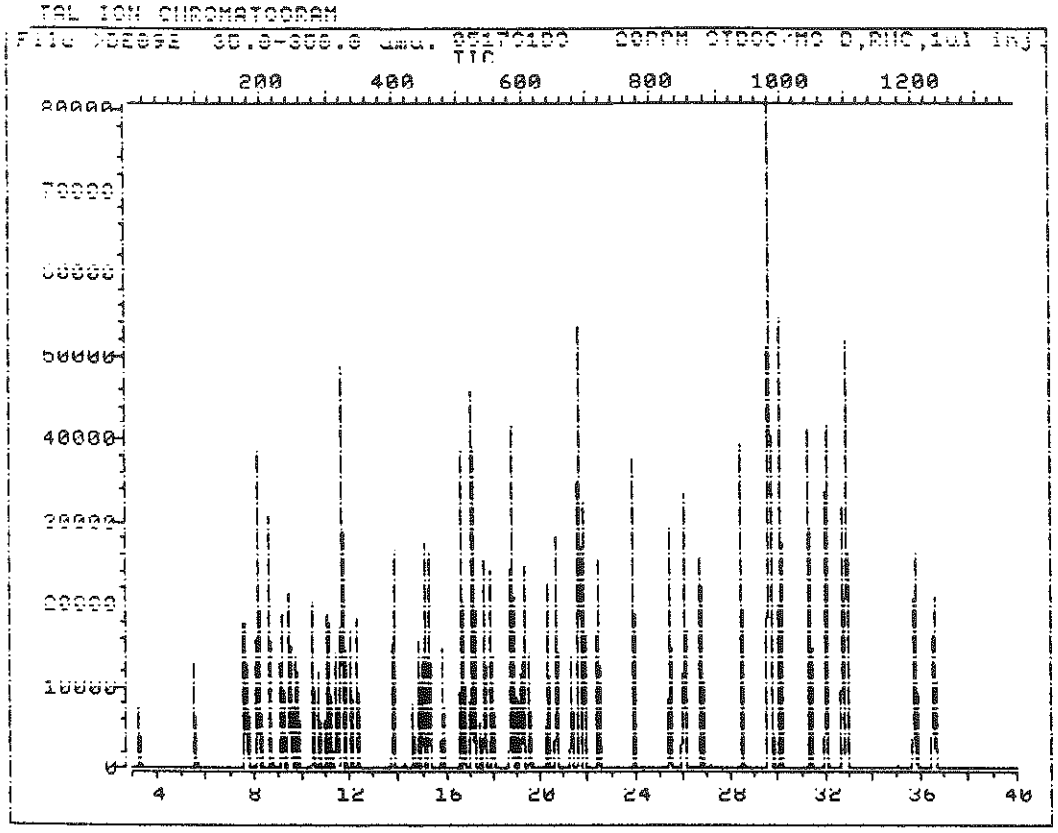
Instrument ID: HP5970-D Calibration Date: 6/19/93 Time: 15:50

Lab File ID: >DF149 Init. Calib. Date(s):06/14/93 N.A.

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.701	1.358	20.2	*
bis(2-Chloroethyl)ether		1.529	1.389	9.1	
2-Chlorophenol		1.310	1.221	6.8	
1,3-Dichlorobenzene		1.325	1.292	2.5	
1,4-Dichlorobenzene	*	1.273	1.282	.7	*
Benzyl alcohol		.864	.806	6.6	
1,2-Dichlorobenzene		1.152	1.127	2.1	
2-Methylphenol		1.103	.973	11.8	
bis(2-chloroisopropyl)ether		2.721	2.192	19.4	
4-Methylphenol		1.219	1.224	.5	
N-Nitroso-di-n-propylamine	#	1.206	1.074	11.0	#
Hexachloroethane		.577	.557	3.5	
Nitrobenzene		.451	.394	12.5	
Isophorone		.876	.810	7.5	
2-Nitrophenol	*	.200	.191	4.5	*
2,4-Dimethylphenol		.292	.223	23.6	
Benzoic acid		.226	.215	5.0	
bis(2-Chloroethoxy)methane		.512	.448	12.5	
2,4-Dichlorophenol	*	.296	.287	2.9	*
1,2,4-Trichlorobenzene		.326	.331	1.6	
Naphthalene		.925	.912	1.3	
4-Chloroaniline		.449	.375	16.6	
Hexachlorobutadiene	*	.185	.219	18.7	*
4-Chloro-3-methylphenol	*	.365	.332	9.0	*
2-Methylnaphthalene		.600	.588	2.0	
Hexachlorocyclopentadiene	#	.349	.287	17.8	#
2,4,6-Trichlorophenol	*	.425	.445	4.6	*
2,4,5-Trichlorophenol		.447	.477	6.5	
2-Chloronaphthalene		1.078	1.147	6.4	
2-Nitroaniline		.585	.547	6.4	
Dimethylphthalate		1.280	1.354	5.8	
Acenaphthylene		1.626	1.787	9.9	
2,6-Dinitrotoluene		.358	.393	9.6	
3-Nitroaniline		.345	.342	.8	
Acenaphthene	*	.972	1.067	9.8	*
2,4-Dinitrophenol	#	.201	.179	10.9	#
4-Nitrophenol	#	.219	.212	3.5	#

000227



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Misc: GC/MS D,RHC,1ul inj. 20ppm BNASTD BTL# 1

Id File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

Operator ID: ROY
Quant Time: 930517 20:03
Injected at: 930517 19:22

QUANT REPORT

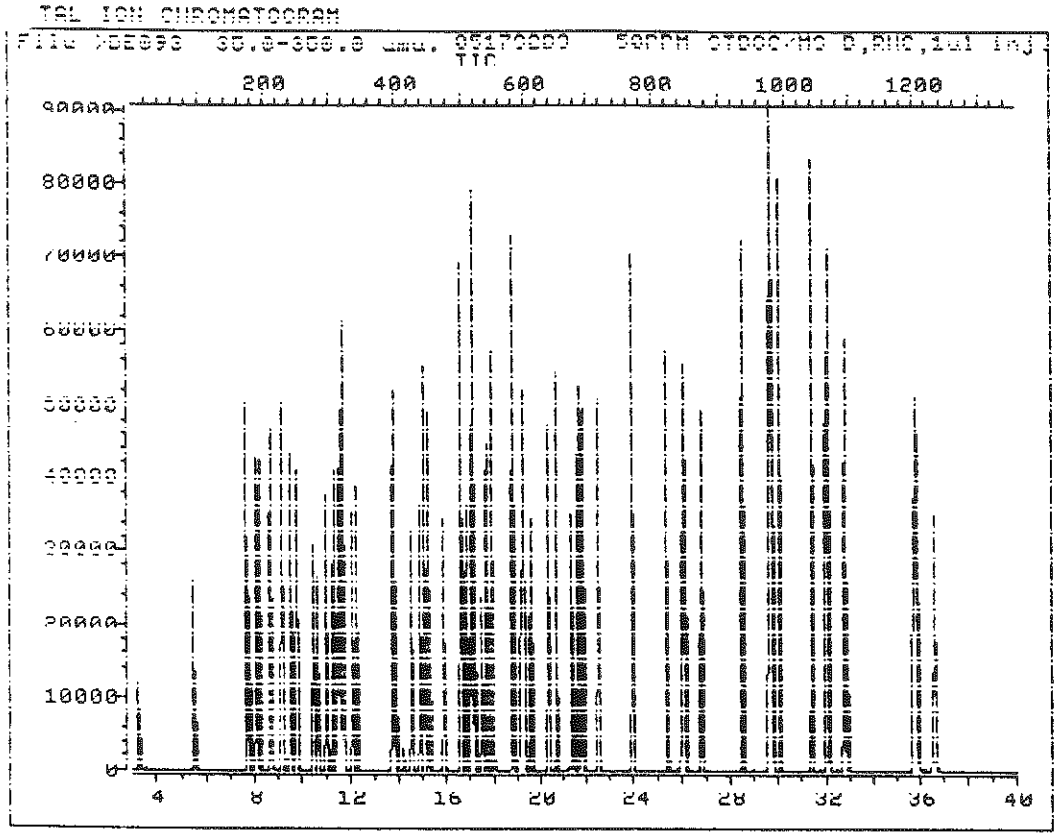
Operator ID: ROY Quant Rev: 6 Quant Time: 930517 20:03
Output File: ^DE092::OU Injected at: 930517 19:22
Data File: >DE092::D1 Dilution Factor: 1.00000
Name: 0517S1D3 20PPM STD
Misc: GC/MS D,RHC,1ul inj. 20ppm BNASTD BTL# 1

ID File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	8.15	191	13681	40.00	UG/ML	85
2)	N-Nitroso-di-methylamine	3.27	12	5305	17.17	UG/ML	83
3)	Phenol	7.63	172	11716	21.74	UG/ML	90
4)	Aniline	7.69	174	10130M	20.21	UG/ML	
5)	bis(2-Chloroethyl)ether	7.69	174	10129	20.20	UG/ML	82
6)	2-Chlorophenol	7.74	176	8972	19.83	UG/ML	98
7)	1,3-Dichlorobenzene	8.04	187	10227	21.38	UG/ML	97
8)	1,4-Dichlorobenzene	8.18	192	9875	20.94	UG/ML	85
9)	Benzyl alcohol	8.67	210	4672	15.99	UG/ML	96
10)	1,2-Dichlorobenzene	8.67	210	9688	22.91	UG/ML	96
11)	2-Methylphenol	9.11	226	8256	22.18	UG/ML	95
12)	bis(2-Chloroisopropyl)ether	9.08	225	15079	20.66	UG/ML	91
13)	4-Methylphenol	9.52	241	8721	20.20	UG/ML	93
14)	N-Nitroso-di-n-propylamine	9.49	240	7398	20.42	UG/ML	74
15)	Hexachloroethane	9.46	239	4275	21.54	UG/ML	86
16)	2-FLUOROPHENOL (SURR)	5.48	93	6947	19.49	UG/ML	98
17)	PHENOL-d5 (SURR)	7.61	171	10969	20.11	UG/ML	61
18)	*Naphthalene-d8	11.67	320	54611	40.00	UG/ML	97
19)	Nitrobenzene	9.79	251	11413	19.22	UG/ML	70
20)	Isophorone	10.44	275	23117	20.41	UG/ML	92
21)	2-Nitrophenol	10.66	283	5964	20.30	UG/ML	94
22)	2,4-Dimethylphenol	10.99	295	7712	20.91	UG/ML	73
23)	Benzoic acid	11.54	315	4392	12.60	UG/ML	98
24)	bis(2-Chloroethoxy)methane	11.21	303	13426	19.46	UG/ML	86
25)	2,4-Dichlorophenol	11.40	310	9297	20.34	UG/ML	90
26)	1,2,4-Trichlorobenzene	11.56	316	10652	21.21	UG/ML	97
27)	Naphthalene	11.73	322	27015	20.73	UG/ML	94
28)	4-Chloroaniline	12.05	334	11723	17.74	UG/ML	95
29)	Hexachlorobutadiene	12.33	344	6779	19.47	UG/ML	98
30)	4-Chloro-3-methylphenol	13.69	394	10502	21.37	UG/ML	69
31)	2-Methylnaphthalene	13.80	398	18948	20.57	UG/ML	92
32)	NITROBENZENE-d5 (SURR)	9.74	249	11423	19.69	UG/ML	98
33)	*Acenaphthene-d10	17.05	517	34484	40.00	UG/ML	97
34)	Hexachlorocyclopentadiene	14.51	424	5125	13.09	UG/ML	96
35)	2,4,6-Trichlorophenol	14.84	436	8257	18.63	UG/ML	97
[illegible]	2,4,5-Trichlorophenol	14.97	441	9011	19.56	UG/ML	96
37)	2-Chloronaphthalene	15.27	452	20355	19.94	UG/ML	98
38)	2-Nitroaniline	17.13	520	9168	17.42	UG/ML	76
39)	Dimethylphthalate	16.58	500	26208	20.31	UG/ML	96
40)	Acenaphthylene	16.56	499	31511	20.18	UG/ML	97
41)	3-Nitroaniline	15.82	472	7659	17.19	UG/ML	89
42)	Acenaphthene	17.16	521	19841	20.78	UG/ML	96
[illegible]	2,4-Dinitrophenol	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	17.92	549	3044	14.88	UG/ML	76
45)	Dibenzofuran	17.65	539	30768	19.39	UG/ML	97
46)	2,4-Dinitrotoluene	17.92	549	10194	18.61	UG/ML	75
47)	2,6-Dinitrotoluene	16.75	506	7092	20.74	UG/ML	91
48)	Diethylphthalate	18.82	582	28050	22.09	UG/ML	96
49)	4-Chlorophenyl-phenylether	18.82	582	12377	20.59	UG/ML	94
50)	Fluorene	18.71	578	23424	20.15	UG/ML	98
51)	4-Nitroaniline	19.09	592	6864	16.15	UG/ML	52
52)	2-FLUOROBIPHENYL (SURR)	15.08	445	23093	20.67	UG/ML	98
53)	2,4,6-TRIBROMOPHENOL (SURR)	19.53	608	7659	16.24	UG/ML	100
54)	*Phenanthrene-d10	21.63	685	72034	40.00	UG/ML	95
55)	4,6-Dinitro-2-methylphenol	19.17	595	6365	19.26	UG/ML	100
56)	N-Nitrosodiphenylamine	19.26	598	17409	18.95	UG/ML	93
57)	1,2-Diphenyl Hydrazine	17.16	521	1906M	19.83	UG/ML	
58)	4-Bromophenyl-phenylether	20.32	637	9325	18.39	UG/ML	91
59)	Hexachlorobenzene	20.67	650	14116	18.30	UG/ML	95
60)	Pentachlorophenol	21.33	674	6505	12.90	UG/ML	96
61)	Phenanthrene	21.68	687	35212	18.67	UG/ML	98
62)	Anthracene	21.82	692	37012	20.31	UG/ML	99
63)	Di-n-butylphthalate	23.92	769	52754	19.46	UG/ML	99
64)	Fluoranthene	25.39	823	44331	19.18	UG/ML	85
65)	*Chrysene-d12	29.65	979	73669	40.00	UG/ML	85
66)	Benzidine	25.99	845	17056	10.75	UG/ML	93
67)	Pyrene	26.08	848	46009	17.69	UG/ML	89
68)	Butylbenzylphthalate	28.48	936	26516	20.94	UG/ML	97
69)	3,3'-Dichlorobenzidine	29.65	979	17334	15.62	UG/ML	79
70)	Benzo(a)anthracene	29.57	976	47874	17.54	UG/ML	99
71)	Bis(2-Ethylhexyl)phthalate	30.06	994	34969	18.60	UG/ML	93
72)	Chrysene	29.70	981	42082	19.07	UG/ML	97
73)	TERPHENYL-d14 (SURR)	26.76	873	35408	16.99	UG/ML	100
74)	*Perylene-d12	32.87	1097	86726	40.00	UG/ML	100
75)	Di-n-octylphthalate	31.34	1041	59150	17.92	UG/ML	100
76)	Benzo(b)fluoranthene	32.00	1065	66154M	22.57	UG/ML	97
77)	Benzo(k)fluoranthene	32.05	1067	53472M	21.41	UG/ML	97
78)	Benzo(a)pyrene	32.71	1091	49117	19.74	UG/ML	93
79)	Indeno(1,2,3-cd)pyrene	35.71	1201	59399	20.93	UG/ML	85
80)	Dibenz(a,h)anthracene	35.76	1203	45409	21.11	UG/ML	93
81)	Benzo(g,h,i)perylene	36.53	1231	50098	21.84	UG/ML	66

* Compound is ISTD



Data File: >DE093::D1 Quant Output File: ^DE093::OU
Name: 0517S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul inj. 50ppm BNASTD BTL# 2

Id File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

Operator ID: ROY
Quant Time: 930517 20:53
Injected at: 930517 20:12

QUANT REPORT

Operator ID: ROY Quant Rev: 6 Quant Time: 930517 20:53
Output File: ^DE093::OU Injected at: 930517 20:12
Data File: >DE093::D1 Dilution Factor: 1.00000
Name: 0517S2D3 50PPM STD
Misc: GC/MS D.RHC.1ul inj. 50ppm BNASTD BTL# 2

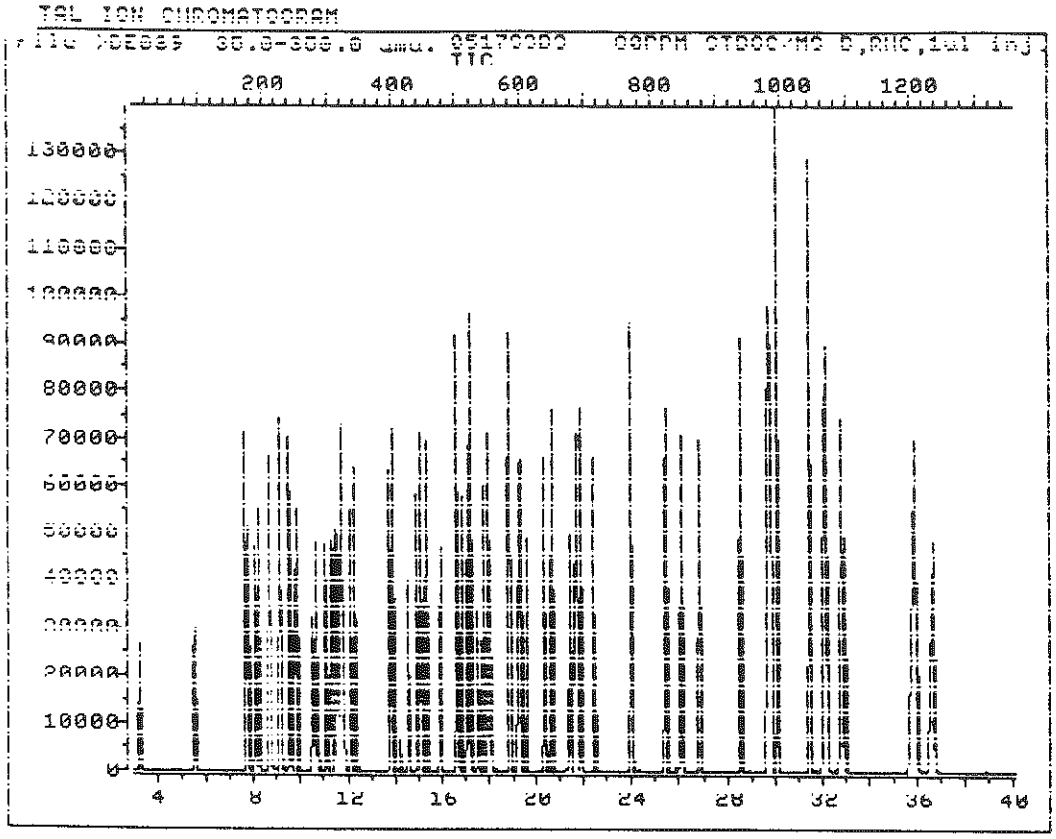
ID File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	8.17	189	15007	40.00	UG/ML	85
2)	N-Nitroso-di-methylamine	3.26	9	13446	39.66	UG/ML	65
3)	Phenol	7.65	170	29017	49.09	UG/ML	99
4)	Aniline	7.70	172	25508M	46.39	UG/ML	
5)	bis(2-Chloroethyl)ether	7.70	172	25288	45.99	UG/ML	85
6)	2-Chlorophenol	7.76	174	22341	45.01	UG/ML	86
7)	1,3-Dichlorobenzene	8.06	185	24356	46.41	UG/ML	97
8)	1,4-Dichlorobenzene	8.19	190	23293	45.03	UG/ML	88
9)	Benzyl alcohol	8.71	209	13875	43.29	UG/ML	96
10)	1,2-Dichlorobenzene	8.66	207	21551	46.47	UG/ML	89
11)	2-Methylphenol	9.12	224	19430	47.59	UG/ML	92
12)	bis(2-Chloroisopropyl)ether	9.09	223	38478	48.06	UG/ML	83
13)	4-Methylphenol	9.56	240	22783	48.10	UG/ML	93
14)	N-Nitroso-di-n-propylamine	9.50	238	17667	44.46	UG/ML	93
15)	Hexachloroethane	9.45	236	10474	48.12	UG/ML	54
16)	2-FLUOROPHENOL (SURR)	5.46	90	19532	49.97	UG/ML	73
17)	PHENOL-d5 (SURR)	7.62	169	27380	45.77	UG/ML	71
18)	*Naphthalene-d8	11.69	318	56848	40.00	UG/ML	99
19)	Nitrobenzene	9.80	249	27878	45.10	UG/ML	90
20)	Isophorone	10.48	274	56511	47.94	UG/ML	90
21)	2-Nitrophenol	10.68	281	14087	46.06	UG/ML	92
22)	2,4-Dimethylphenol	11.00	293	17920	46.67	UG/ML	80
23)	Benzoic acid	11.71	319	12555M	34.61	UG/ML	81
24)	bis(2-Chloroethoxy)methane	11.22	301	32019	44.58	UG/ML	87
25)	2,4-Dichlorophenol	11.41	308	21680	45.56	UG/ML	88
26)	1,2,4-Trichlorobenzene	11.58	314	24507	46.88	UG/ML	99
27)	Naphthalene	11.74	320	61578	45.40	UG/ML	95
28)	4-Chloroaniline	12.07	332	29603	43.03	UG/ML	95
29)	Hexachlorobutadiene	12.31	341	14961	41.27	UG/ML	98
30)	4-Chloro-3-methylphenol	13.70	392	23950	46.82	UG/ML	65
31)	2-Methylnaphthalene	13.81	396	39358	41.05	UG/ML	91
32)	NITROBENZENE-d5 (SURR)	9.75	247	28125	46.56	UG/ML	92
33)	*Acenaphthene-d10	17.06	515	33612	40.00	UG/ML	98
34)	Hexachlorocyclopentadiene	14.52	422	14949	39.18	UG/ML	95
35)	2,4,6-Trichlorophenol	14.85	434	18932	43.82	UG/ML	97
3	2,4,5-Trichlorophenol	14.99	439	21199	47.21	UG/ML	98
37)	2-Chloronaphthalene	15.29	450	42774	43.00	UG/ML	97
38)	2-Nitroaniline	17.17	519	22555	43.96	UG/ML	72
39)	Dimethylphthalate	16.60	498	53614	42.63	UG/ML	97
40)	Acenaphthylene	16.57	497	66220	43.51	UG/ML	99
41)	3-Nitroaniline	15.86	471	21843	50.29	UG/ML	90
42)	Acenaphthene	17.17	519	38864	41.75	UG/ML	95
43)	2,4-Dinitrophenol	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

000232

	Compound	R.T.	Scan#	Area	Conc	Units	Q
44)	4-Nitrophenol	17.96	548	8784	44.05	UG/ML	59
45)	Dibenzofuran	17.66	537	69893	45.20	UG/ML	97
46)	2,4-Dinitrotoluene	17.96	548	24029	45.01	UG/ML	92
47)	2,6-Dinitrotoluene	16.76	504	16161	48.49	UG/ML	93
48)	Diethylphthalate	18.83	580	52349	42.29	UG/ML	97
49)	4-Chlorophenyl-phenylether	18.83	580	23959	40.89	UG/ML	97
50)	Fluorene	18.75	577	53367	47.10	UG/ML	98
51)	4-Nitroaniline	19.16	592	17873	43.14	UG/ML	65
52)	2-FLUOROBIPHENYL (SURR)	15.10	443	47559	43.67	UG/ML	97
53)	2,4,6-TRIBROMOPHENOL (SURR)	19.54	606	17693	38.49	UG/ML	100
54)	*Phenanthrene-d10	21.62	682	71549	40.00	UG/ML	89
55)	4,6-Dinitro-2-methylphenol	19.22	594	16240	49.47	UG/ML	100
56)	N-Nitrosodiphenylamine	19.30	597	39031	42.77	UG/ML	96
57)	1,2-Diphenyl Hydrazine	17.17	519	4092M	42.86	UG/ML	
58)	4-Bromophenyl-phenylether	20.33	635	20433	40.58	UG/ML	90
59)	Hexachlorobenzene	20.69	648	29035	37.89	UG/ML	93
60)	Pentachlorophenol	21.34	672	17250	34.43	UG/ML	97
61)	Phenanthrene	21.70	685	76896	41.05	UG/ML	98
62)	Anthracene	21.84	690	81271	44.90	UG/ML	98
63)	Di-n-butylphthalate	23.94	767	111269	41.32	UG/ML	99
64)	Fluoranthene	25.44	822	97363	42.41	UG/ML	96
65)	*Chrysene-d12	29.64	976	64804	40.00	UG/ML	83
66)	Benzidine	26.01	843	41898	30.01	UG/ML	93
67)	Pyrene	26.09	846	98710	43.15	UG/ML	86
68)	Butylbenzylphthalate	28.49	934	58561	52.58	UG/ML	97
69)	3,3'-Dichlorobenzidine	29.67	977	36385	37.27	UG/ML	79
70)	Benzo(a)anthracene	29.58	974	103391	43.06	UG/ML	98
71)	Bis(2-Ethylhexyl)phthalate	30.05	991	68603	41.47	UG/ML	91
72)	Chrysene	29.72	979	84083	43.30	UG/ML	97
73)	TERPHENYL-d14 (SURR)	26.77	871	77325	42.17	UG/ML	100
74)	*Perylene-d12	32.89	1095	81258	40.00	UG/ML	100
75)	Di-n-octylphthalate	31.36	1039	124285	40.18	UG/ML	100
76)	Benzo(b)fluoranthene	32.09	1066	94104M	34.26	UG/ML	95
77)	Benzo(k)fluoranthene	32.01	1063	122847	52.50	UG/ML	95
78)	Benzo(a)pyrene	32.75	1090	105204	45.12	UG/ML	95
79)	Indeno(1,2,3-cd)pyrene	35.75	1200	132993	50.02	UG/ML	83
80)	Dibenz(a,h)anthracene	35.83	1203	99320	49.27	UG/ML	92
81)	Benzo(g,h,i)perylene	36.60	1231	112316	52.26	UG/ML	66

* Compound is ISTD



Data File: >DE089::D1 Quant Output File: ^DE089::OU
Name: 0517S3D3 80PPM STD
Misc: GC/MS D,RHC,1ul inj. 80ppm BNASTD BTL# 3

Id File: TDSDE3::TC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

Operator ID: ROY
Quant Time: 930517 17:34
Injected at: 930517 16:53

QUANT REPORT

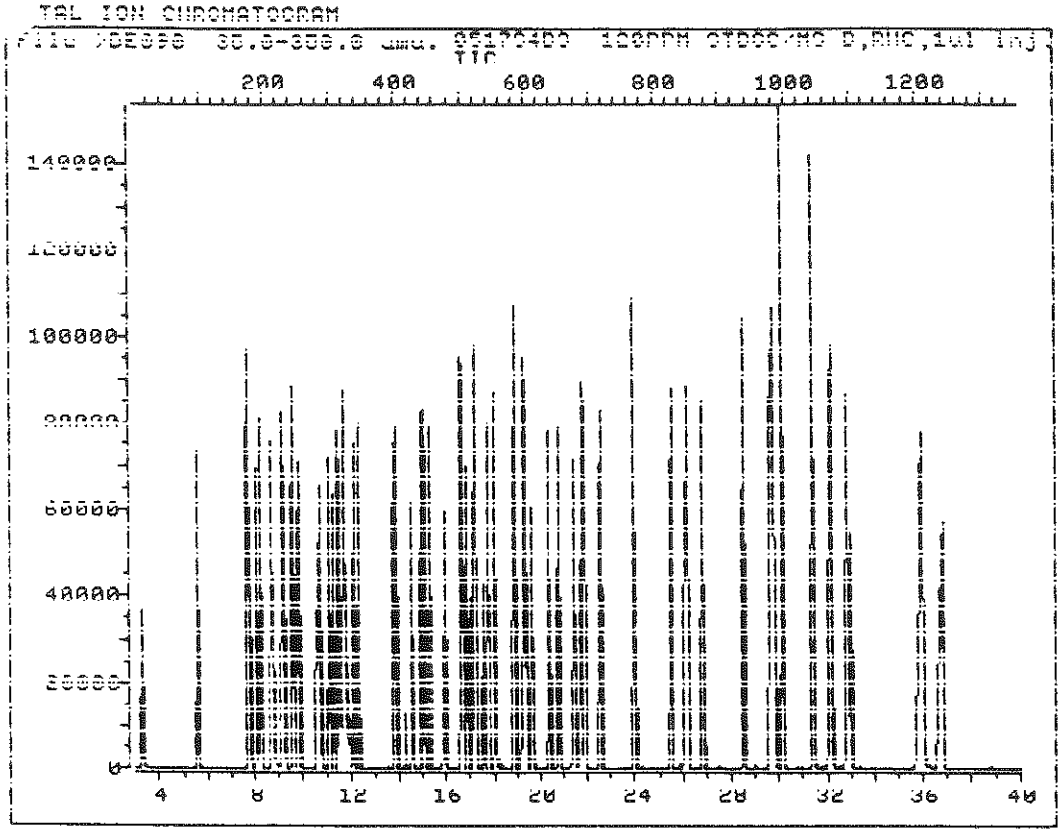
Operator ID: ROY Quant Rev: 6 Quant Time: 930517 17:34
Output File: ^DE089::OU Injected at: 930517 16:53
Data File: >DE089::D1 Dilution Factor: 1.00000
Name: 0517S3D3 80PPM STD
Misc: GC/MS D,RHC,1ul inj. 80ppm BNASTD BTL# 3

TD File: TDSDE3::TC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	8.17	189	14266	40.00	UG/ML	86
2)	N-Nitroso-di-methylamine	3.28	10	26637	82.66	UG/ML	83
3)	Phenol	7.67	171	45113	80.28	UG/ML	94
4)	Aniline	7.73	173	37512M	71.76	UG/ML	
5)	bis(2-Chloroethyl)ether	7.73	173	37524	71.78	UG/ML	74
6)	2-Chlorophenol	7.78	175	34119	72.30	UG/ML	74
7)	1,3-Dichlorobenzene	8.06	185	32156	64.46	UG/ML	97
8)	1,4-Dichlorobenzene	8.22	191	34647	70.46	UG/ML	92
9)	Benzyl alcohol	8.74	210	20651	67.77	UG/ML	97
10)	1,2-Dichlorobenzene	8.68	208	32524	73.77	UG/ML	97
11)	2-Methylphenol	9.15	225	28322	72.97	UG/ML	92
12)	bis(2-Chloroisopropyl)ether	9.09	223	57459M	75.50	UG/ML	
13)	4-Methylphenol	9.59	241	32395	71.95	UG/ML	92
14)	N-Nitroso-di-n-propylamine	9.53	239	28753	76.11	UG/ML	93
15)	Hexachloroethane	9.48	237	15728	76.00	UG/ML	78
16)	2-FLUOROPHENOL (SURR)	5.46	90	27126	73.00	UG/ML	64
17)	PHENOL-d5 (SURR)	7.65	170	39948	70.24	UG/ML	65
18)	*Naphthalene-d8	11.69	318	55065	40.00	UG/ML	96
19)	Nitrobenzene	9.83	250	44061	73.59	UG/ML	85
20)	Isophorone	10.54	276	89660	78.52	UG/ML	89
21)	2-Nitrophenol	10.71	282	22940	77.43	UG/ML	85
22)	2,4-Dimethylphenol	11.03	294	27402	73.67	UG/ML	80
23)	Benzoic acid	11.85	324	22194M	63.16	UG/ML	98
24)	bis(2-Chloroethoxy)methane	11.25	302	44837	64.44	UG/ML	87
25)	2,4-Dichlorophenol	11.44	309	31066	67.41	UG/ML	90
26)	1,2,4-Trichlorobenzene	11.58	314	35732	70.56	UG/ML	97
27)	Naphthalene	11.77	321	89481	68.10	UG/ML	95
28)	4-Chloroaniline	12.10	333	43515	65.29	UG/ML	95
29)	Hexachlorobutadiene	12.34	342	23368	66.55	UG/ML	98
30)	4-Chloro-3-methylphenol	13.74	393	37495	75.67	UG/ML	56
31)	2-Methylnaphthalene	13.85	397	62252	67.03	UG/ML	90
32)	NITROBENZENE-d5 (SURR)	9.78	248	42017	71.82	UG/ML	94
33)	*Acenaphthene-d10	17.09	516	35273	40.00	UG/ML	97
34)	Hexachlorocyclopentadiene	14.53	422	25339	63.28	UG/ML	96
35)	2,4,6-Trichlorophenol	14.88	435	27696	61.08	UG/ML	96
36)	2,4,5-Trichlorophenol	15.02	440	31918	67.73	UG/ML	97
37)	2-Chloronaphthalene	15.32	451	65076	62.33	UG/ML	97
38)	2-Nitroaniline	17.23	521	36234	67.29	UG/ML	68
39)	Dimethylphthalate	16.63	499	81138	61.48	UG/ML	98
40)	Acenaphthylene	16.60	498	98778	61.85	UG/ML	97
41)	3-Nitroaniline	15.89	472	33727	73.99	UG/ML	91
42)	Acenaphthene	17.20	520	57138	58.49	UG/ML	96
43)	2,4-Dinitrophenol	17.50	531	18586	92.84	UG/ML	91

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	18.00	549	13263	63.38	UG/ML	69
45)	Dibenzofuran	17.69	538	104941	64.67	UG/ML	99
46)	2,4-Dinitrotoluene	18.00	549	34024	60.73	UG/ML	89
47)	2,6-Dinitrotoluene	16.82	506	26110	74.65	UG/ML	90
48)	Diethylphthalate	18.90	582	79023	60.83	UG/ML	99
49)	4-Chlorophenyl-phenylether	18.87	581	33216	54.02	UG/ML	93
50)	Fluorene	18.79	578	80336	67.57	UG/ML	96
51)	4-Nitroaniline	19.25	595	29514	67.89	UG/ML	63
52)	2-FLUOROBIPHENYL (SURR)	15.13	444	71924	62.93	UG/ML	98
53)	2,4,6-TRIBROMOPHENOL (SURR)	19.58	607	27992	58.02	UG/ML	100
54)	*Phenanthrene-d10	21.65	683	74307	40.00	UG/ML	93
55)	4,6-Dinitro-2-methylphenol	19.28	596	23505	68.95	UG/ML	100
56)	N-Nitrosodiphenylamine	19.33	598	54146	57.13	UG/ML	94
57)	1,2-Diphenyl Hydrazine	17.20	520	5927M	59.77	UG/ML	
58)	4-Bromophenyl-phenylether	20.37	636	32083	61.35	UG/ML	84
59)	Hexachlorobenzene	20.73	649	45305	56.92	UG/ML	93
60)	Pentachlorophenol	21.38	673	28100	54.00	UG/ML	96
61)	Phenanthrene	21.74	686	118259	60.78	UG/ML	98
62)	Anthracene	21.90	692	122001	64.90	UG/ML	98
63)	Di-n-butylphthalate	23.97	768	176169	62.99	UG/ML	98
64)	Fluoranthene	25.48	823	150106	62.96	UG/ML	93
65)	*Chrysene-d12	29.68	977	60561	40.00	UG/ML	87
66)	Benzidine	26.05	844	72076	55.24	UG/ML	92
67)	Pyrene	26.13	847	151961	71.09	UG/ML	87
68)	Butylbenzylphthalate	28.51	934	81510	78.31	UG/ML	89
69)	3,3'-Dichlorobenzidine	29.71	978	50315	55.15	UG/ML	78
70)	Benzo(a)anthracene	29.63	975	155558	69.32	UG/ML	97
71)	Bis(2-Ethylhexyl)phthalate	30.09	992	104458	67.57	UG/ML	90
72)	Chrysene	29.76	980	120793	66.57	UG/ML	97
73)	TERPHENYL-d14 (SURR)	26.81	872	114401	66.76	UG/ML	100
74)	*Perylene-d12	32.90	1095	84242	40.00	UG/ML	100
75)	Di-n-octylphthalate	31.40	1040	177292	55.29	UG/ML	100
76)	Benzo(b)fluoranthene	32.11	1066	243748M	85.61	UG/ML	94
77)	Benzo(k)fluoranthene	32.14	1067	177774M	73.28	UG/ML	94
78)	Benzo(a)pyrene	32.79	1091	161080	66.64	UG/ML	94
79)	Indeno(1,2,3-cd)pyrene	35.88	1204	204576	74.22	UG/ML	89
80)	Dibenz(a,h)anthracene	35.93	1206	149538	71.56	UG/ML	92
81)	Benzo(g,h,i)perylene	36.70	1234	180066	80.82	UG/ML	66

* Compound is ISTD



Data File: >DE090::D1 Quant Output File: ^DE090::OU
Name: 0517S4D3 120PPM STD
Misc: GC/MS D,RHC,1ul inj. 120ppm BNASTD BTL# 4

Id File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

Operator ID: ROY
Quant Time: 930517 18:24
Injected at: 930517 17:43

QUANT REPORT

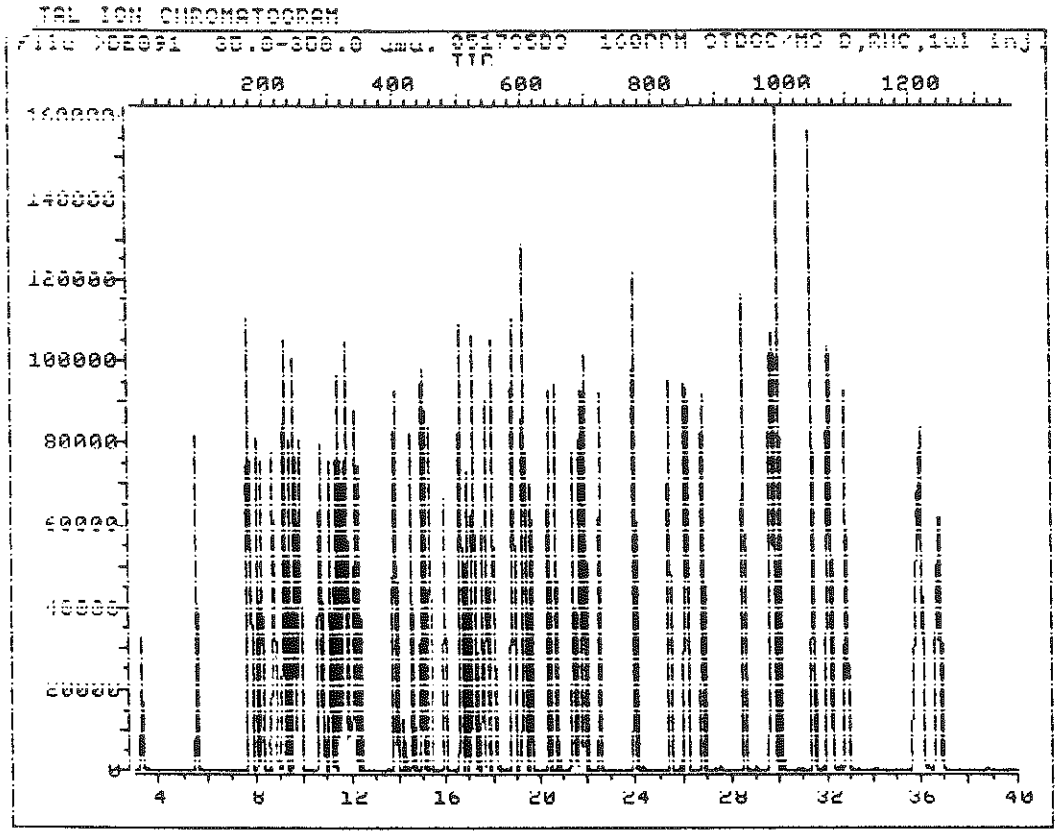
Operator ID: ROY Quant Rev: 6 Quant Time: 930517 18:24
Output File: ^DE090::OU Injected at: 930517 17:43
Data File: >DE090::D1 Dilution Factor: 1.00000
Name: 0517S4D3 120PPM STD
Misc: GC/MS D,RHC,1ul inj, 120ppm BNASTD BTL# 4

ID File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	8.17	189	13142	40.00	UG/ML	86
2)	N-Nitroso-di-methylamine	3.28	10	35144	118.38	UG/ML	93
3)	Phenol	7.70	172	61447	118.70	UG/ML	86
4)	Aniline	7.73	173	51662	107.28	UG/ML	29
5)	bis(2-Chloroethyl)ether	7.73	173	51662	107.28	UG/ML	88
6)	2-Chlorophenol	7.79	175	50816	116.90	UG/ML	79
7)	1,3-Dichlorobenzene	8.09	186	49406	107.50	UG/ML	98
8)	1,4-Dichlorobenzene	8.22	191	46103	101.78	UG/ML	95
9)	Benzyl alcohol	8.77	211	29479	105.02	UG/ML	97
10)	1,2-Dichlorobenzene	8.69	208	42709	105.16	UG/ML	93
11)	2-Methylphenol	9.15	225	40625	113.62	UG/ML	92
12)	bis(2-Chloroisopropyl)ether	9.12	224	90762	129.46	UG/ML	83
13)	4-Methylphenol	9.62	242	40605	97.90	UG/ML	91
14)	N-Nitroso-di-n-propylamine	9.59	241	36159	103.90	UG/ML	81
15)	Hexachloroethane	9.48	237	21972	115.26	UG/ML	95
16)	2-FLUOROPHENOL (SURR)	5.49	91	41388	120.91	UG/ML	95
17)	PHENOL-d5 (SURR)	7.68	171	57686	110.11	UG/ML	62
18)	*Naphthalene-d8	11.72	319	52725	40.00	UG/ML	98
19)	Nitrobenzene	9.86	251	63166	110.18	UG/ML	84
20)	Isophorone	10.60	278	121540	111.16	UG/ML	89
21)	2-Nitrophenol	10.71	282	34104	120.23	UG/ML	88
22)	2,4-Dimethylphenol	11.09	296	41436	116.35	UG/ML	77
23)	Benzoic acid	11.99	329	35053M	104.18	UG/ML	98
24)	bis(2-Chloroethoxy)methane	11.28	303	63945	95.98	UG/ML	85
25)	2,4-Dichlorophenol	11.47	310	45314	102.68	UG/ML	91
26)	1,2,4-Trichlorobenzene	11.61	315	50711	104.59	UG/ML	98
27)	Naphthalene	11.77	321	110324	87.70	UG/ML	94
28)	4-Chloroaniline	12.13	334	63925	100.17	UG/ML	96
29)	Hexachlorobutadiene	12.35	342	28713	85.40	UG/ML	98
30)	4-Chloro-3-methylphenol	13.77	394	55069M	116.06	UG/ML	
31)	2-Methylnaphthalene	13.85	397	73805	82.99	UG/ML	89
32)	NITROBENZENE-d5 (SURR)	9.81	249	61508	109.80	UG/ML	93
33)	*Acenaphthene-d10	17.10	516	32748	40.00	UG/ML	95
34)	Hexachlorocyclopentadiene	14.56	423	36328	97.72	UG/ML	97
35)	2,4,6-Trichlorophenol	14.91	436	40516	96.24	UG/ML	98
3	2,4,5-Trichlorophenol	15.05	441	45185	103.28	UG/ML	96
37)	2-Chloronaphthalene	15.32	451	95795	98.83	UG/ML	96
38)	2-Nitroaniline	17.26	522	48038	96.10	UG/ML	72
39)	Dimethylphthalate	16.66	500	113405	92.56	UG/ML	97
40)	Acenaphthylene	16.61	498	132719	89.51	UG/ML	97
41)	3-Nitroaniline	15.92	473	48955	115.68	UG/ML	90
42)	Acenaphthene	17.21	520	81799	90.20	UG/ML	95
43)	2,4-Dinitrophenol	17.54	530	98618	152.98	UG/ML	[illegible]

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	18.03	550	19872	102.29	UG/ML	66
45)	Dibenzofuran	17.73	539	132618	88.02	UG/ML	98
46)	2,4-Dinitrotoluene	18.03	550	50262	96.62	UG/ML	95
47)	2,6-Dinitrotoluene	16.85	507	36206	111.50	UG/ML	93
48)	Diethylphthalate	18.93	583	98738	81.87	UG/ML	99
49)	4-Chlorophenyl-phenylether	18.87	581	49810	87.25	UG/ML	94
50)	Fluorene	18.79	578	100692	91.22	UG/ML	97
51)	4-Nitroaniline	19.31	597	35227	87.28	UG/ML	59
52)	2-FLUOROBIPHENYL (SURR)	15.13	444	98809	93.12	UG/ML	97
53)	2,4,6-TRIBROMOPHENOL (SURR)	19.61	608	38269	85.44	UG/ML	100
54)	*Phenanthrene-d10	21.66	683	66863	40.00	UG/ML	93
55)	4,6-Dinitro-2-methylphenol	19.34	598	29978	97.73	UG/ML	100
56)	N-Nitrosodiphenylamine	19.37	599	71616	83.98	UG/ML	96
57)	1,2-Diphenyl Hydrazine	17.23	521	8820M	98.85	UG/ML	
58)	4-Bromophenyl-phenylether	20.38	636	40788	86.68	UG/ML	92
59)	Hexachlorobenzene	20.73	649	64375	89.89	UG/ML	91
60)	Pentachlorophenol	21.41	674	44011	94.00	UG/ML	96
61)	Phenanthrene	21.77	687	158485	90.53	UG/ML	98
62)	Anthracene	21.90	692	162252	95.92	UG/ML	99
63)	Di-n-butylphthalate	23.98	768	221383	87.97	UG/ML	98
64)	Fluoranthene	25.48	823	198226	92.40	UG/ML	91
65)	*Chrysene-d12	29.69	977	54379	40.00	UG/ML	82
66)	Benzidine	26.05	844	93802	80.06	UG/ML	91
67)	Pyrene	26.16	848	198509	103.42	UG/ML	89
68)	Butylbenzylphthalate	28.51	934	120347	128.77	UG/ML	88
69)	3,3'-Dichlorobenzidine	29.74	979	60257	73.55	UG/ML	79
70)	Benzo(a)anthracene	29.66	976	212977	105.70	UG/ML	98
71)	Bis(2-Ethylhexyl)phthalate	30.10	992	124864	89.96	UG/ML	90
72)	Chrysene	29.79	981	135570	83.21	UG/ML	98
73)	TERPHENYL-d14 (SURR)	26.85	873	152989	99.43	UG/ML	100
74)	*Perylene-d12	32.94	1096	75299	40.00	UG/ML	100
75)	Di-n-octylphthalate	31.41	1040	253224	88.35	UG/ML	100
76)	Benzo(b)fluoranthene	32.14	1067	332292M	130.57	UG/ML	94
77)	Benzo(k)fluoranthene	32.17	1068	208887M	96.33	UG/ML	94
78)	Benzo(a)pyrene	32.83	1092	218865	101.30	UG/ML	95
79)	Indeno(1,2,3-cd)pyrene	35.97	1207	282446	114.64	UG/ML	90
80)	Dibenz(a,h)anthracene	35.99	1208	217923	116.66	UG/ML	92
81)	Benzo(g,h,i)perylene	36.79	1237	248493	124.78	UG/ML	67

* Compound is ISTD



Data File: >DE091::D1 Quant Output File: ^DE091::OU
Name: 0517S5D3 160PPM STD
Misc: GC/MS D,RHC,1ul inj. 160ppm BNASTD BTL# 5

Id File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

Operator ID: ROY
Quant Time: 930517 19:13
Injected at: 930517 18:33

QUANT REPORT

Operator ID: ROY Quant Rev: 6 Quant Time: 930517 19:13
Output File: ^DE091::OU Injected at: 930517 18:33
Data File: >DE091::D1 Dilution Factor: 1.00000
Name: 0517S5D3 160PPM STD
Misc: GC/MS D,RHC,1ul inj. 160ppm BNASTD BTL# 5

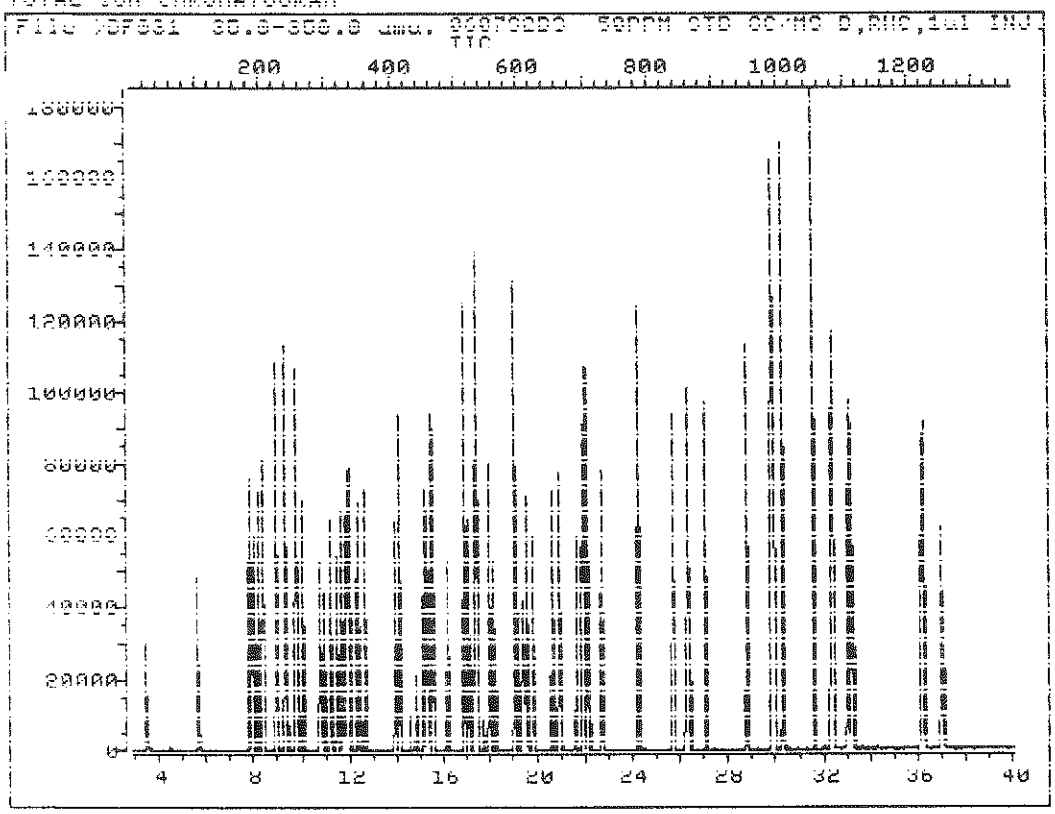
ID File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930517 17:08

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	8.17	189	13497	40.00	UG/ML	85
2)	N-Nitroso-di-methylamine	3.28	10	46577	152.77	UG/ML	91
3)	Phenol	7.73	173	76416	143.73	UG/ML	78
4)	Aniline	7.76	174	56532	114.30	UG/ML	27
5)	bis(2-Chloroethyl)ether	7.76	174	56532	114.30	UG/ML	82
6)	2-Chlorophenol	7.81	176	59201	132.61	UG/ML	72
7)	1,3-Dichlorobenzene	8.08	186	55371	117.31	UG/ML	99
8)	1,4-Dichlorobenzene	8.22	191	54619M	117.41	UG/ML	95
9)	Benzyl alcohol	8.82	213	41689	144.61	UG/ML	99
10)	1,2-Dichlorobenzene	8.68	208	56912	136.45	UG/ML	93
11)	2-Methylphenol	9.18	226	44572	121.38	UG/ML	92
12)	bis(2-Chloroisopropyl)ether	9.12	224	115612M	160.57	UG/ML	
13)	4-Methylphenol	9.64	243	54007	126.78	UG/ML	92
14)	N-Nitroso-di-n-propylamine	9.61	242	39232	109.77	UG/ML	84
15)	Hexachloroethane	9.48	237	24769	126.51	UG/ML	67
16)	2-FLUOROPHENOL (SURR)	5.49	91	47724	135.75	UG/ML	93
17)	PHENOL-d5 (SURR)	7.67	171	71179	132.29	UG/ML	67
18)	*Naphthalene-d8	11.71	319	52143	40.00	UG/ML	97
19)	Nitrobenzene	9.89	252	83491	147.26	UG/ML	81
20)	Isophorone	10.65	280	148660	137.48	UG/ML	89
21)	2-Nitrophenol	10.73	283	35723	127.34	UG/ML	85
22)	2,4-Dimethylphenol	11.11	297	50921	144.58	UG/ML	78
23)	Benzoic acid	12.07	332	45770M	137.55	UG/ML	97
24)	bis(2-Chloroethoxy)methane	11.30	304	81873	124.27	UG/ML	84
25)	2,4-Dichlorophenol	11.52	312	56228	128.84	UG/ML	90
26)	1,2,4-Trichlorobenzene	11.60	315	62880	131.13	UG/ML	97
27)	Naphthalene	11.80	322	140475	112.91	UG/ML	95
28)	4-Chloroaniline	12.15	335	85699	135.80	UG/ML	96
29)	Hexachlorobutadiene	12.34	342	37406	112.49	UG/ML	97
30)	4-Chloro-3-methylphenol	13.76	394	65882	140.40	UG/ML	59
31)	2-Methylnaphthalene	13.87	398	95441	108.52	UG/ML	91
32)	NITROBENZENE-d5 (SURR)	9.83	250	79363	143.25	UG/ML	95
33)	*Acenaphthene-d10	17.09	516	34144	40.00	UG/ML	96
34)	Hexachlorocyclopentadiene	14.55	423	44109	113.80	UG/ML	98
35)	2,4,6-Trichlorophenol	14.93	437	52172	118.86	UG/ML	98
3	2,4,5-Trichlorophenol	15.07	442	51642	113.21	UG/ML	97
37)	2-Chloronaphthalene	15.34	452	115593	114.38	UG/ML	97
38)	2-Nitroaniline	17.31	524	71682	137.53	UG/ML	60
39)	Dimethylphthalate	16.68	501	149042	116.67	UG/ML	96
40)	Acenaphthylene	16.63	499	157490	101.88	UG/ML	97
41)	3-Nitroaniline	15.94	474	60851	137.91	UG/ML	91
42)	Acenaphthene	17.23	521	100027	105.79	UG/ML	97
43)	2,4-Dinitrophenol	17.58	534	38935	[illegible]	UG/ML	[illegible]

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	18.07	552	25047	123.66	UG/ML	62
45)	Dibenzofuran	17.75	540	168016	106.96	UG/ML	97
46)	2,4-Dinitrotoluene	18.07	552	61331	113.08	UG/ML	92
47)	2,6-Dinitrotoluene	16.87	508	42871	126.62	UG/ML	94
48)	Diethylphthalate	18.97	585	146731	116.69	UG/ML	95
49)	4-Chlorophenyl-phenylether	18.89	582	63228	106.23	UG/ML	92
50)	Fluorene	18.81	579	125595	109.13	UG/ML	98
51)	4-Nitroaniline	19.36	599	40107	95.30	UG/ML	56
52)	2-FLUOROBIPHENYL (SURR)	15.15	445	112992	102.13	UG/ML	98
53)	2,4,6-TRIBROMOPHENOL (SURR)	19.63	609	49214	105.39	UG/ML	100
54)	*Phenanthrene-d10	21.68	684	67189	40.00	UG/ML	95
55)	4,6-Dinitro-2-methylphenol	19.38	600	37664	122.19	UG/ML	100
56)	N-Nitrosodiphenylamine	19.41	601	95903M	111.91	UG/ML	99
57)	1,2-Diphenyl Hydrazine	17.23	521	11282M	125.83	UG/ML	
58)	4-Bromophenyl-phenylether	20.39	637	51246	108.38	UG/ML	92
59)	Hexachlorobenzene	20.75	650	81942	113.86	UG/ML	93
60)	Pentachlorophenol	21.43	675	56718	120.55	UG/ML	97
61)	Phenanthrene	21.79	688	212055	120.54	UG/ML	98
62)	Anthracene	21.95	694	194903	114.66	UG/ML	98
63)	Di-n-butylphthalate	24.00	769	279423	110.49	UG/ML	98
64)	Fluoranthene	25.50	824	254515	118.06	UG/ML	93
65)	*Chrysene-d12	29.70	978	51288	40.00	UG/ML	80
66)	Benzidine	26.07	845	121907	110.32	UG/ML	92
67)	Pyrene	26.18	849	248279	137.14	UG/ML	90
68)	Butylbenzylphthalate	28.53	935	143419	162.71	UG/ML	91
69)	3,3'-Dichlorobenzidine	29.75	980	76685M	99.25	UG/ML	80
70)	Benzo(a)anthracene	29.67	977	259704	136.66	UG/ML	98
71)	Bis(2-Ethylhexyl)phthalate	30.11	993	153346	117.14	UG/ML	88
72)	Chrysene	29.81	982	152104	98.98	UG/ML	98
73)	TERPHENYL-d14 (SURR)	26.86	874	183233	126.27	UG/ML	100
74)	*Perylene-d12	32.95	1097	73008	40.00	UG/ML	100
75)	Di-n-octylphthalate	31.42	1041	287811	103.57	UG/ML	100
76)	Benzo(b)fluoranthene	32.16	1068	421759	170.92	UG/ML	94
77)	Benzo(k)fluoranthene	32.16	1068	276509M	131.51	UG/ML	94
78)	Benzo(a)pyrene	32.87	1094	267038	127.48	UG/ML	95
79)	Indeno(1,2,3-cd)pyrene	36.03	1210	334809	140.15	UG/ML	89
80)	Dibenz(a,h)anthracene	36.06	1211	262280	144.82	UG/ML	92
81)	Benzo(g,h,i)perylene	36.82	1239	311558	161.36	UG/ML	67

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >DF031::D1 Quant Output File: ^DF031::OU
Name: 0607S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul INJ. 50ppm BNASTD BTL# 1

Id File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

Operator ID: ROY
Quant Time: 930607 17:10
Injected at: 930607 16:29

QUANT REPORT

O ator ID: ROY Quant Rev: 6 Quant Time: 930607 17:10
Output File: ^DF031::OU Injected at: 930607 16:29
Data File: >DF031::D1 Dilution Factor: 1.00000
Name: 0607S2D3 50PPM STD
Misc: GC/MS D.RHC.1ul INJ. 50ppm BNASTD BTL# 1

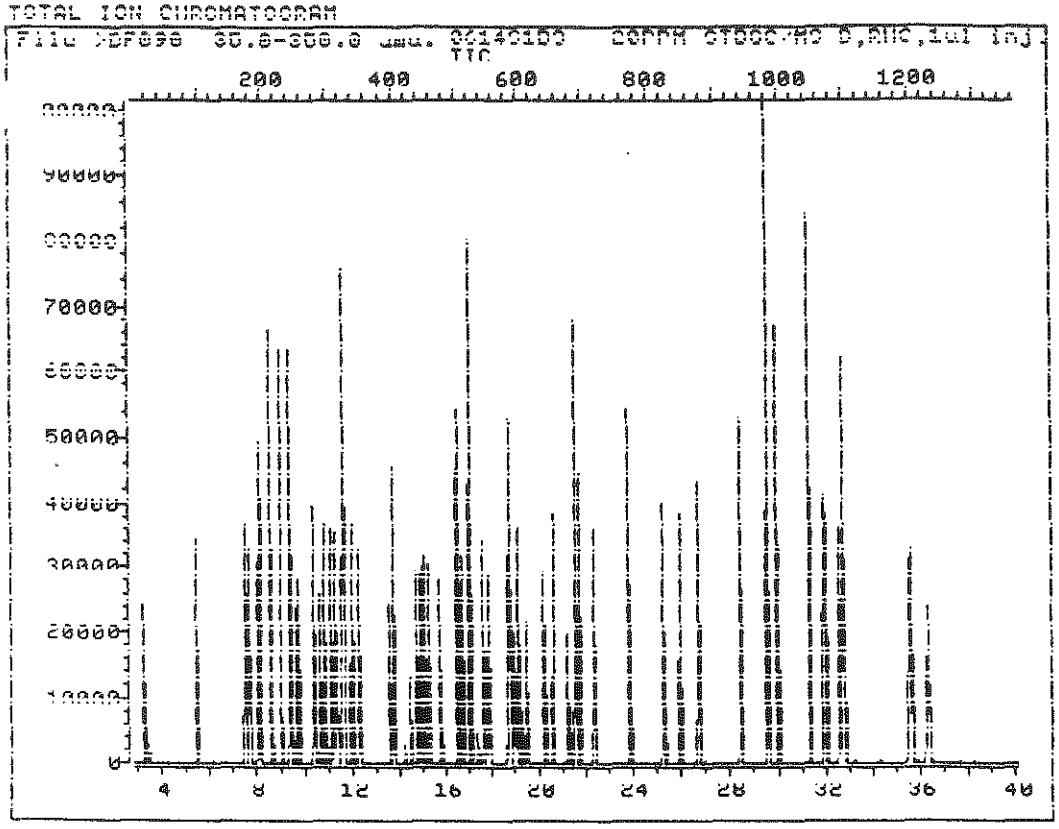
ID File: IDSDE3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	202	29583	40.00	UG/ML	85
2)	N-Nitroso-di-methylamine	42.0	21	21084	34.10	UG/ML	98
3)	Phenol	94.0	181	45061	38.98	UG/ML	92
4)	Aniline	93.0	185	43562M	45.22	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	185	42484	44.18	UG/ML	72
6)	2-Chlorophenol	128.0	187	40020	44.47	UG/ML	68
7)	1,3-Dichlorobenzene	146.0	198	39581	43.17	UG/ML	99
8)	1,4-Dichlorobenzene	146.0	203	39417	43.82	UG/ML	85
9)	Benzyl alcohol	108.0	221	23868	44.01	UG/ML	92
10)	1,2-Dichlorobenzene	146.0	221	35392	40.95	UG/ML	95
11)	2-Methylphenol	108.0	236	35232	46.78	UG/ML	99
12)	bis(2-Chloroisopropyl)ether	45.0	236	57464	36.26	UG/ML	1
13)	4-Methylphenol	108.0	252	37469	44.79	UG/ML	93
14)	N-Nitroso-di-n-propylamine	70.0	251	30041	43.44	UG/ML	94
15)	Hexachloroethane	117.0	250	16106	39.59	UG/ML	97
16)	2-FLUOROPHENOL (SURR)	112.0	102	31223	42.72	UG/ML	99
17)	PHENOL-d5 (SURR)	99.0	180	49171	45.88	UG/ML	80
18)	*Naphthalene-d8	136.0	331	116450	40.00	UG/ML	93
19)	Nitrobenzene	77.0	262	46692	39.90	UG/ML	91
20)	Isophorone	82.0	287	93755	40.90	UG/ML	87
21)	2-Nitrophenol	139.0	294	23692	40.21	UG/ML	88
22)	2,4-Dimethylphenol	122.0	306	33608	44.76	UG/ML	74
23)	Benzoic acid	122.0	329	15069	26.41	UG/ML	96
24)	bis(2-Chloroethoxy)methane	93.0	315	59199	47.37	UG/ML	84
25)	2,4-Dichlorophenol	162.0	321	34372	39.79	UG/ML	90
26)	1,2,4-Trichlorobenzene	180.0	328	39565	40.41	UG/ML	98
27)	Naphthalene	128.0	333	110751	47.09	UG/ML	94
28)	4-Chloroaniline	127.0	346	57329	47.89	UG/ML	96
29)	Hexachlorobutadiene	225.0	355	23842	39.68	UG/ML	98
30)	4-Chloro-3-methylphenol	107.0	404	40460	40.26	UG/ML	65
31)	2-Methylnaphthalene	142.0	410	70090	43.98	UG/ML	92
32)	NITROBENZENE-d5 (SURR)	82.0	260	50037	43.73	UG/ML	86
33)	*Acenaphthene-d10	164.0	529	67743	40.00	UG/ML	98
34)	Hexachlorocyclopentadiene	237.0	436	9957	17.24	UG/ML	98
35)	2,4,6-Trichlorophenol	196.0	448	30796	42.96	UG/ML	97
36)	2,4,5-Trichlorophenol	196.0	452	34143	43.49	UG/ML	95
37)	2-Chloronaphthalene	162.0	464	74734	44.64	UG/ML	96
38)	2-Nitroaniline	65.0	533	37507	42.66	UG/ML	69
3	Dimethylphthalate	163.0	512	86704	41.34	UG/ML	97
40)	Acenaphthylene	152.0	511	107529	43.44	UG/ML	96
41)	3-Nitroaniline	138.0	484	34249	42.38	UG/ML	84
42)	Acenaphthene	153.0	533	65576	43.50	UG/ML	94
43)	2,4-Dinitrophenol	184.0	543	5185	11.57	UG/ML	81

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	109.0	559	13793	42.45	UG/ML	74
45)	Dibenzofuran	168.0	552	112369	44.14	UG/ML	92
46)	2,4-Dinitrotoluene	165.0	561	34481	39.06	UG/ML	67
47)	2,6-Dinitrotoluene	165.0	518	25096	40.08	UG/ML	95
48)	Diethylphthalate	149.0	594	95121	46.25	UG/ML	96
49)	4-Chlorophenyl-phenylether	204.0	594	39760	43.02	UG/ML	95
50)	Fluorene	166.0	591	87127	45.03	UG/ML	99
51)	4-Nitroaniline	138.0	605	28910	45.06	UG/ML	66
52)	2-FLUOROBIPHENYL (SURR)	172.0	457	84964	47.12	UG/ML	95
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	620	32209	47.26	UG/ML	100
54)	*Phenanthrene-d10	188.0	697	132116	40.00	UG/ML	95
55)	4,6-Dinitro-2-methylphenol	198.0	607	13810	25.94	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	610	66304	50.24	UG/ML	92
57)	1,2-Diphenyl Hydrazine	77.0	533	7626M	51.42	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	649	32746	45.18	UG/ML	93
59)	Hexachlorobenzene	284.0	662	48477	44.55	UG/ML	89
60)	Pentachlorophenol	266.0	686	28495	43.44	UG/ML	97
61)	Phenanthrene	178.0	700	129505	46.54	UG/ML	97
62)	Anthracene	178.0	705	133477	47.09	UG/ML	99
63)	Di-n-butylphthalate	149.0	781	191509	48.02	UG/ML	98
64)	Fluoranthene	202.0	836	153332	44.09	UG/ML	90
65)	*Chrysene-d12	240.0	989	111359	40.00	UG/ML	83
66)	Benzidine	184.0	858	63820	41.76	UG/ML	91
67)	Pyrene	202.0	861	158921	46.42	UG/ML	91
68)	Butylbenzylphthalate	149.0	946	92252	46.64	UG/ML	81
69)	3,3'-Dichlorobenzidine	252.0	990	56050	48.44	UG/ML	81
70)	Benzo(a)anthracene	228.0	988	159318	44.49	UG/ML	97
71)	Bis(2-Ethylhexyl)phthalate	149.0	1004	124793	53.73	UG/ML	89
72)	Chrysene	228.0	992	136540	51.62	UG/ML	97
73)	TERPHENYL-d14 (SURR)	244.0	886	122351	46.84	UG/ML	100
74)	*Perylene-d12	264.0	1110	147568	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1052	234673	55.35	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1077	191888	38.17	UG/ML	95
77)	Benzo(k)fluoranthene	252.0	1080	148664M	37.53	UG/ML	95
78)	Benzo(a)pyrene	252.0	1105	167220	45.26	UG/ML	97
79)	Indeno(1,2,3-cd)pyrene	276.0	1218	215339M	46.40	UG/ML	87
80)	Dibenz(a,h)anthracene	278.0	1222	159068	45.15	UG/ML	95
81)	Benzo(g,h,i)perylene	276.0	1251	181949	44.86	UG/ML	69

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >DF090::D1 Quant Output File: ^DF090::OU
Name: 0614S1D3 20PPM STD
Misc: GC/MS D,RHC,1ul inj. 20ppm BNASTD 330 BTL# 1

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

Operator ID: ROY
Quant Time: 930614 19:41
Injected at: 930614 19:00

QUANT REPORT

O -ator ID: ROY Quant Rev: 6 Quant Time: 930614 19:41
Output File: ^DF090::OU Injected at: 930614 19:00
Data File: >DF090::D1 Dilution Factor: 1.00000
Name: 0614S1D3 20PPM STD
Misc: GC/MS D,RHC,1ul inj. 20ppm BNASTD 330 BTL# 1

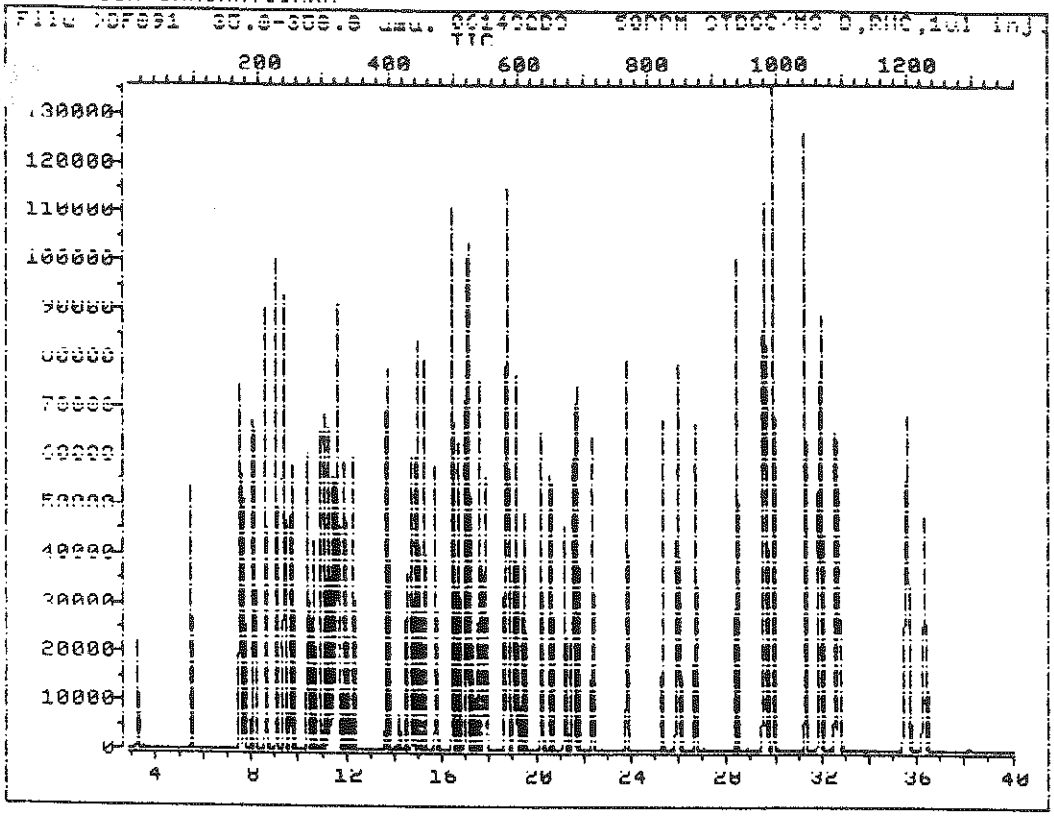
ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	191	22391	40.00	UG/ML	85
2)	N-Nitroso-di-methylamine	42.0	14	16039	34.27	UG/ML	81
3)	Phenol	94.0	171	21611	24.70	UG/ML	87
4)	Aniline	93.0	174	19671M	26.98	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	174	19673	27.03	UG/ML	92
6)	2-Chlorophenol	128.0	176	16793	24.66	UG/ML	76
7)	1,3-Dichlorobenzene	146.0	188	17419	25.10	UG/ML	98
8)	1,4-Dichlorobenzene	146.0	193	17910	26.31	UG/ML	95
9)	Benzyl alcohol	108.0	210	10225	24.91	UG/ML	93
10)	1,2-Dichlorobenzene	146.0	210	16568	25.33	UG/ML	95
11)	2-Methylphenol	108.0	225	15039	26.38	UG/ML	98
12)	bis(2-Chloroisopropyl)ether	45.0	225	30478	25.41	UG/ML	7
13)	4-Methylphenol	108.0	240	15348	24.24	UG/ML	93
14)	N-Nitroso-di-n-propylamine	70.0	239	14248	27.22	UG/ML	92
15)	Hexachloroethane	117.0	239	7584	24.63	UG/ML	89
16)	2-FLUOROPHENOL (SURR)	112.0	93	14784	26.72	UG/ML	95
17)	PHENOL-d5 (SURR)	99.0	170	21003	25.89	UG/ML	56
18)	*Naphthalene-d8	136.0	320	88317	40.00	UG/ML	94
19)	Nitrobenzene	77.0	250	19977	22.51	UG/ML	96
20)	Isophorone	82.0	275	40520	23.31	UG/ML	84
21)	2-Nitrophenol	139.0	283	9292	20.80	UG/ML	80
22)	2,4-Dimethylphenol	122.0	294	13919	24.44	UG/ML	81
23)	Benzoic acid	122.0	312	8750	20.22	UG/ML	97
24)	bis(2-Chloroethoxy)methane	93.0	303	23922	25.24	UG/ML	87
25)	2,4-Dichlorophenol	162.0	309	14493	22.12	UG/ML	94
26)	1,2,4-Trichlorobenzene	180.0	316	16519	22.25	UG/ML	99
27)	Naphthalene	128.0	322	45405	25.45	UG/ML	96
28)	4-Chloroaniline	127.0	334	22185	24.43	UG/ML	96
29)	Hexachlorobutadiene	225.0	344	9954	21.85	UG/ML	96
30)	4-Chloro-3-methylphenol	107.0	392	16484	21.63	UG/ML	66
31)	2-Methylnaphthalene	142.0	398	30879	25.55	UG/ML	93
32)	NITROBENZENE-d5 (SURR)	82.0	249	20949	24.14	UG/ML	87
33)	*Acenaphthene-d10	164.0	517	49653	40.00	UG/ML	97
34)	Hexachlorocyclopentadiene	237.0	424	8801	20.79	UG/ML	96
35)	2,4,6-Trichlorophenol	196.0	435	11544M	21.97	UG/ML	96
36)	2,4,5-Trichlorophenol	196.0	439	12653	21.99	UG/ML	98
37)	2-Chloronaphthalene	162.0	451	29542	24.08	UG/ML	95
38)	2-Nitroaniline	65.0	471	13441M	20.86	UG/ML	71
39	Dimethylphthalate	163.0	499	35665	23.20	UG/ML	98
40)	Acenaphthylene	152.0	498	44727	24.65	UG/ML	97
41)	3-Nitroaniline	138.0	519	9747M	16.45	UG/ML	90
42)	Acenaphthene	153.0	520	27908	25.26	UG/ML	95
43)	2,4-Dinitrophenol	184.0	529	2763	8.41	UG/ML	96

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	109.0	545	5120	21.50	UG/ML	69
45)	Dibenzofuran	168.0	538	44313	23.75	UG/ML	96
46)	2,4-Dinitrotoluene	165.0	548	13931	21.53	UG/ML	93
47)	2,6-Dinitrotoluene	165.0	505	9149	19.94	UG/ML	80
48)	Diethylphthalate	149.0	581	38352	25.44	UG/ML	98
49)	4-Chlorophenyl-phenylether	204.0	582	17069	25.19	UG/ML	74
50)	Fluorene	166.0	577	32407	22.85	UG/ML	99
51)	4-Nitroaniline	138.0	590	9527	20.26	UG/ML	52
52)	2-FLUOROBIPHENYL (SURR)	172.0	444	34329	25.97	UG/ML	96
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	607	10968	21.96	UG/ML	100
54)	*Phenanthrene-d10	188.0	683	91222	40.00	UG/ML	87
55)	4,6-Dinitro-2-methylphenol	198.0	593	6202	16.87	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	597	23031	25.27	UG/ML	93
57)	1,2-Diphenyl Hydrazine	77.0	520	2793M	27.28	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	636	11929	23.84	UG/ML	93
59)	Hexachlorobenzene	284.0	649	18006	23.97	UG/ML	95
60)	Pentachlorophenol	266.0	672	8447	18.65	UG/ML	96
61)	Phenanthrene	178.0	686	47791	24.87	UG/ML	98
62)	Anthracene	178.0	691	49098	25.08	UG/ML	99
63)	Di-n-butylphthalate	149.0	768	67115	24.37	UG/ML	98
64)	Fluoranthene	202.0	822	51231	21.33	UG/ML	93
65)	*Chrysene-d12	240.0	978	89032	40.00	UG/ML	82
66)	Benzidine	184.0	843	17393	14.24	UG/ML	90
67)	Pyrene	202.0	846	52352	19.12	UG/ML	82
68)	Butylbenzylphthalate	149.0	935	31071	19.65	UG/ML	91
69)	3,3'-Dichlorobenzidine	252.0	978	13111	14.17	UG/ML	81
70)	Benzo(a)anthracene	228.0	975	53051	18.53	UG/ML	99
71)	Bis(2-Ethylhexyl)phthalate	149.0	993	41561	22.38	UG/ML	89
72)	Chrysene	228.0	980	50777	24.01	UG/ML	97
73)	TERPHENYL-d14 (SURR)	244.0	872	44961	21.53	UG/ML	100
74)	*Perylene-d12	264.0	1095	90068	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1041	81042	31.32	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1063	60036	19.56	UG/ML	93
77)	Benzo(k)fluoranthene	252.0	1065	52494M	21.71	UG/ML	93
78)	Benzo(a)pyrene	252.0	1089	53819	23.86	UG/ML	92
79)	Indeno(1,2,3-cd)pyrene	276.0	1196	68647	24.23	UG/ML	76
80)	Dibenz(a,h)anthracene	278.0	1198	53613	24.93	UG/ML	90
81)	Benzo(g,h,i)perylene	276.0	1225	57315	23.15	UG/ML	62

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Name: 0614S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul inj. 50ppm BNASTD 331 BTL# 2

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

Operator ID: ROY
Quant Time: 930614 20:31
Injected at: 930614 19:50

QUANT REPORT

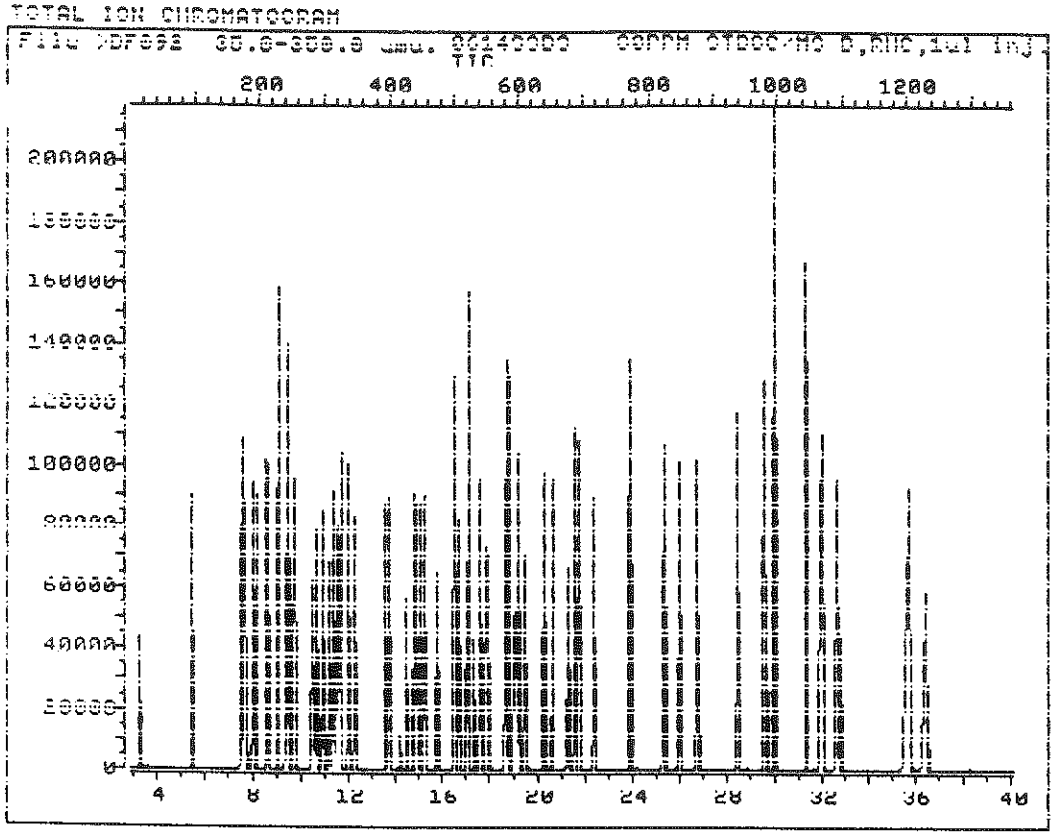
Operator ID: ROY Quant Rev: 6 Quant Time: 930614 20:31
Output File: ^DF091::OU Injected at: 930614 19:50
Data File: >DF091::D1 Dilution Factor: 1.00000
Name: 0614S2D3 50PPM STD
Misc: GC/MS D.RHC,1ul inj. 50ppm BNASTD 331 BTL# 2

ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	191	20231	40.00	UG/ML	86
2)	N-Nitroso-di-methylamine	42.0	13	21600	51.08	UG/ML	50
3)	Phenol	94.0	171	45706	57.82	UG/ML	88
4)	Aniline	93.0	174	40007M	60.73	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	174	40020	60.85	UG/ML	80
6)	2-Chlorophenol	128.0	176	31333	50.91	UG/ML	45
7)	1,3-Dichlorobenzene	146.0	187	33951	54.14	UG/ML	98
8)	1,4-Dichlorobenzene	146.0	192	33864	55.06	UG/ML	90
9)	Benzyl alcohol	108.0	210	23012	62.05	UG/ML	95
10)	1,2-Dichlorobenzene	146.0	209	29320	49.61	UG/ML	91
11)	2-Methylphenol	108.0	225	27782	53.94	UG/ML	96
12)	bis(2-Chloroisopropyl)ether	45.0	225	66936	61.77	UG/ML	22
13)	4-Methylphenol	108.0	240	27982	48.92	UG/ML	95
14)	N-Nitroso-di-n-propylamine	70.0	239	27019	57.14	UG/ML	92
15)	Hexachloroethane	117.0	238	14381	51.69	UG/ML	58
16)	2-FLUOROPHENOL (SURR)	112.0	92	29421	58.86	UG/ML	82
17)	PHENOL-d5 (SURR)	99.0	170	43496	59.35	UG/ML	60
18)	*Naphthalene-d8	136.0	319	76427	40.00	UG/ML	97
19)	Nitrobenzene	77.0	250	40341	52.52	UG/ML	89
20)	Isophorone	82.0	275	84159	55.94	UG/ML	87
21)	2-Nitrophenol	139.0	282	17810	46.06	UG/ML	94
22)	2,4-Dimethylphenol	122.0	294	26665	54.11	UG/ML	75
23)	Benzoic acid	122.0	317	19808	52.89	UG/ML	95
24)	bis(2-Chloroethoxy)methane	93.0	303	50384	61.43	UG/ML	84
25)	2,4-Dichlorophenol	162.0	309	27674	48.81	UG/ML	92
26)	1,2,4-Trichlorobenzene	180.0	315	31869	49.60	UG/ML	97
27)	Naphthalene	128.0	321	90152	58.40	UG/ML	95
28)	4-Chloroaniline	127.0	333	44023	56.03	UG/ML	97
29)	Hexachlorobutadiene	225.0	343	18651	47.30	UG/ML	98
30)	4-Chloro-3-methylphenol	107.0	392	33985M	51.52	UG/ML	
31)	2-Methylnaphthalene	142.0	397	55298	52.87	UG/ML	96
32)	NITROBENZENE-d5 (SURR)	82.0	248	44431	59.17	UG/ML	91
33)	*Acenaphthene-d10	164.0	516	43417	40.00	UG/ML	98
34)	Hexachlorocyclopentadiene	237.0	423	19801	53.50	UG/ML	95
35)	2,4,6-Trichlorophenol	196.0	435	22605	49.20	UG/ML	97
36)	2,4,5-Trichlorophenol	196.0	439	24056	47.81	UG/ML	99
37)	2-Chloronaphthalene	162.0	451	59446	55.40	UG/ML	95
38)	2-Nitroaniline	65.0	471	31496M	55.89	UG/ML	70
39	Dimethylphthalate	163.0	499	70573	52.50	UG/ML	97
40)	Acenaphthylene	152.0	498	98414	62.03	UG/ML	96
41)	3-Nitroaniline	138.0	519	19848M	38.32	UG/ML	86
42)	Acenaphthene	153.0	520	60199	62.31	UG/ML	97
43)	2,4-Dinitrophenol	184.0	529	9148	31.85	UG/ML	87

	Compound	Q ion	Scan#	Area	Conc	Units	q
4	4-Nitrophenol	109.0	545	11248	54.01	UG/ML	68
45)	Dibenzofuran	168.0	538	85542	52.43	UG/ML	99
46)	2,4-Dinitrotoluene	165.0	548	30569	54.03	UG/ML	93
47)	2,6-Dinitrotoluene	165.0	505	19997	49.83	UG/ML	77
48)	Diethylphthalate	149.0	580	72388	54.91	UG/ML	97
49)	4-Chlorophenyl-phenylether	204.0	581	31071	52.45	UG/ML	92
50)	Fluorene	166.0	577	65677	52.97	UG/ML	98
51)	4-Nitroaniline	138.0	591	22290	54.21	UG/ML	61
52)	2-FLUOROBIPHENYL (SURR)	172.0	444	65427	56.61	UG/ML	97
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	606	22289	51.03	UG/ML	100
54)	*Phenanthrene-d10	188.0	683	82288	40.00	UG/ML	94
55)	4,6-Dinitro-2-methylphenol	198.0	594	15624	47.11	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	597	46461	56.52	UG/ML	94
57)	1,2-Diphenyl Hydrazine	77.0	520	6467M	70.01	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	635	23909	52.96	UG/ML	94
59)	Hexachlorobenzene	284.0	648	34572	51.01	UG/ML	88
60)	Pentachlorophenol	266.0	672	18816	46.05	UG/ML	97
61)	Phenanthrene	178.0	685	99973	57.68	UG/ML	98
62)	Anthracene	178.0	690	103409	58.57	UG/ML	99
63)	Di-n-butylphthalate	149.0	767	141060	56.79	UG/ML	99
64)	Fluoranthene	202.0	821	114997	53.09	UG/ML	88
65)	*Chrysene-d12	240.0	977	73800	40.00	UG/ML	84
66)	Benzidine	184.0	842	53429	52.76	UG/ML	89
67)	Pyrene	202.0	846	114171	50.32	UG/ML	89
68)	Butylbenzylphthalate	149.0	934	61215	46.70	UG/ML	92
69)	3,3'-Dichlorobenzidine	252.0	977	31122	40.58	UG/ML	78
70)	Benzo(a)anthracene	228.0	975	114525	48.25	UG/ML	97
71)	Bis(2-Ethylhexyl)phthalate	149.0	992	85810	55.75	UG/ML	87
72)	Chrysene	228.0	979	103536	59.07	UG/ML	97
73)	TERPHENYL-d14 (SURR)	244.0	871	90032	52.01	UG/ML	100
74)	*Perylene-d12	264.0	1094	77175	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1040	147186	66.38	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1063	132306	50.32	UG/ML	94
77)	Benzo(k)fluoranthene	252.0	1066	108574M	52.40	UG/ML	94
78)	Benzo(a)pyrene	252.0	1089	116973	60.53	UG/ML	93
79)	Indeno(1,2,3-cd)pyrene	276.0	1197	149003	61.39	UG/ML	83
80)	Dibenz(a,h)anthracene	278.0	1199	114643	62.21	UG/ML	92
81)	Benzo(g,h,i)perylene	276.0	1227	124757	58.82	UG/ML	66

* Compound is ISTD



Data File: >DF092::D1 Quant Output File: ^DF092::OU
Name: 0614S3D3 80PPM STD
Misc: GC/MS D,RHC,1ul inj. 80ppm BNASTD 332 BTL# 3

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

Operator ID: ROY
Quant Time: 930614 21:22
Injected at: 930614 20:40

QUANT REPORT

C ator ID: ROY Quant Rev: 6 Quant Time: 930614 21:22
Output File: ^DF092::OU Injected at: 930614 20:40
Data File: >DF092::D1 Dilution Factor: 1.00000
Name: 0614S3D3 80PPM STD
Misc: GC/MS D,RHC,1ul inj. 80ppm BNASTD 332 BTL# 3

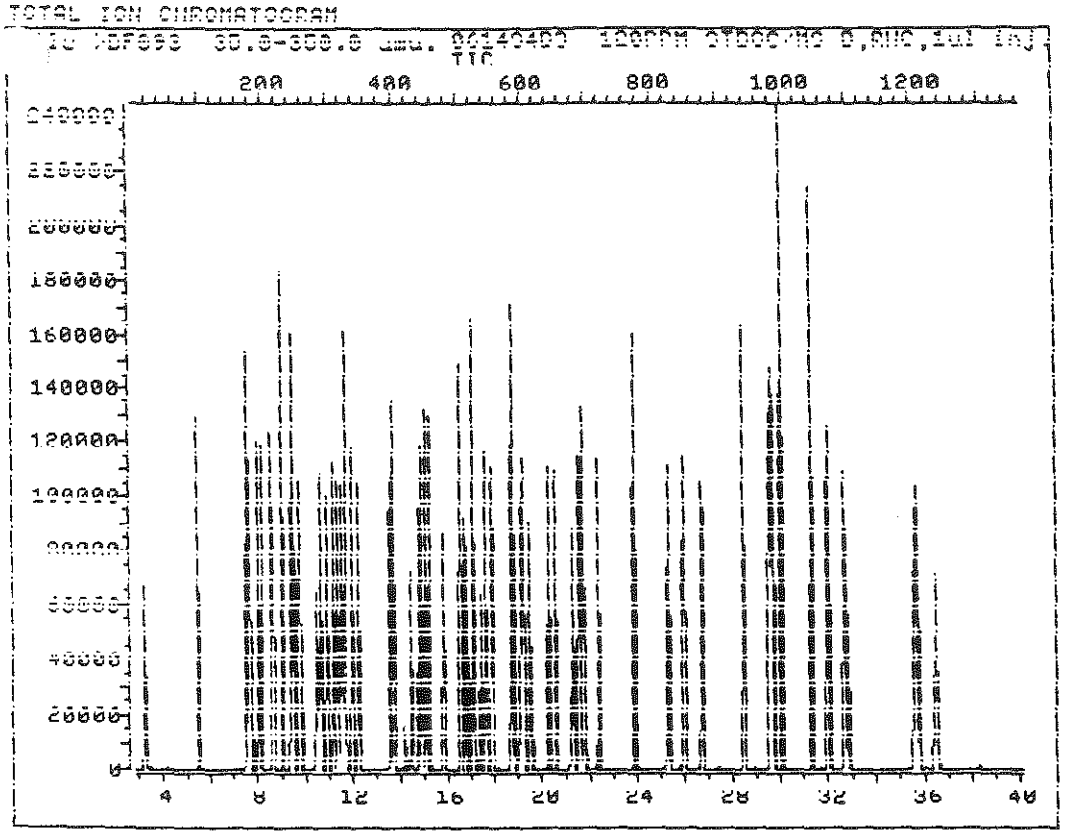
ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	192	20199	40.00	UG/ML	86
2)	N-Nitroso-di-methylamine	42.0	14	36876	87.35	UG/ML	83
3)	Phenol	94.0	172	59115	74.90	UG/ML	98
4)	Aniline	93.0	175	57245M	87.03	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	175	57051	86.89	UG/ML	85
6)	2-Chlorophenol	128.0	177	52057	84.72	UG/ML	55
7)	1,3-Dichlorobenzene	146.0	188	49761	79.48	UG/ML	98
8)	1,4-Dichlorobenzene	146.0	193	48205	78.49	UG/ML	92
9)	Benzyl alcohol	108.0	211	31911	86.18	UG/ML	96
10)	1,2-Dichlorobenzene	146.0	210	41867	70.95	UG/ML	94
11)	2-Methylphenol	108.0	226	43705	85.00	UG/ML	98
12)	bis(2-Chloroisopropyl)ether	45.0	226	105289	97.31	UG/ML	24
13)	4-Methylphenol	108.0	242	47548	83.25	UG/ML	91
14)	N-Nitroso-di-n-propylamine	70.0	241	45026	95.37	UG/ML	90
15)	Hexachloroethane	117.0	239	21851	78.66	UG/ML	68
16)	2-FLUOROPHENOL (SURR)	112.0	93	43456	87.08	UG/ML	95
17)	PHENOL-d5 (SURR)	99.0	171	66806	91.30	UG/ML	70
18)	*Naphthalene-d8	136.0	320	75266	40.00	UG/ML	97
19)	Nitrobenzene	77.0	252	70998	93.86	UG/ML	76
20)	Isophorone	82.0	277	132250	89.26	UG/ML	87
21)	2-Nitrophenol	139.0	284	32339	84.93	UG/ML	76
22)	2,4-Dimethylphenol	122.0	296	43445	89.52	UG/ML	74
23)	Benzoic acid	122.0	323	34488M	93.50	UG/ML	
24)	bis(2-Chloroethoxy)methane	93.0	304	77670	96.16	UG/ML	85
25)	2,4-Dichlorophenol	162.0	311	44311	79.36	UG/ML	84
26)	1,2,4-Trichlorobenzene	180.0	316	46907	74.13	UG/ML	98
27)	Naphthalene	128.0	322	131855	86.74	UG/ML	95
28)	4-Chloroaniline	127.0	335	68611	88.67	UG/ML	97
29)	Hexachlorobutadiene	225.0	344	25897	66.69	UG/ML	98
30)	4-Chloro-3-methylphenol	107.0	393	51853	79.82	UG/ML	53
31)	2-Methylnaphthalene	142.0	398	85627	83.12	UG/ML	92
32)	NITROBENZENE-d5 (SURR)	82.0	250	69983	94.64	UG/ML	95
33)	*Acenaphthene-d10	164.0	517	42912	40.00	UG/ML	95
34)	Hexachlorocyclopentadiene	237.0	424	29730	81.27	UG/ML	97
35)	2,4,6-Trichlorophenol	196.0	436	35597	78.39	UG/ML	97
36)	2,4,5-Trichlorophenol	196.0	440	36512	73.42	UG/ML	97
37)	2-Chloronaphthalene	162.0	452	89492	84.39	UG/ML	97
38)	2-Nitroaniline	65.0	473	51621M	92.68	UG/ML	67
[illegible]	Dimethylphthalate	163.0	500	108636	81.77	UG/ML	98
40)	Acenaphthylene	152.0	499	129025	82.29	UG/ML	96
41)	3-Nitroaniline	138.0	521	27495M	53.71	UG/ML	90
42)	Acenaphthene	153.0	521	75364	78.92	UG/ML	95
43)	2,4-Dinitrophenol	184.0	531	18121	63.84	UG/ML	81

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	109.0	547	19462	94.56	UG/ML	67
45)	Dibenzofuran	168.0	540	131656	81.64	UG/ML	91
46)	2,4-Dinitrotoluene	165.0	549	45423	81.23	UG/ML	76
47)	2,6-Dinitrotoluene	165.0	506	30098	75.89	UG/ML	95
48)	Diethylphthalate	149.0	582	94688	72.68	UG/ML	99
49)	4-Chlorophenyl-phenylether	204.0	582	42628	72.80	UG/ML	90
50)	Fluorene	166.0	579	100632	82.11	UG/ML	99
51)	4-Nitroaniline	138.0	594	33623	82.73	UG/ML	61
52)	2-FLUOROBIPHENYL (SURR)	172.0	445	98156	85.93	UG/ML	97
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	608	34757	80.51	UG/ML	100
54)	*Phenanthrene-d10	188.0	684	82912	40.00	UG/ML	95
55)	4,6-Dinitro-2-methylphenol	198.0	596	26047	77.95	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	599	71726	86.60	UG/ML	92
57)	1,2-Diphenyl Hydrazine	77.0	521	9282M	99.73	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	637	36876	81.07	UG/ML	85
59)	Hexachlorobenzene	284.0	650	53237	77.96	UG/ML	94
60)	Pentachlorophenol	266.0	673	32250	78.34	UG/ML	96
61)	Phenanthrene	178.0	687	139385	79.82	UG/ML	97
62)	Anthracene	178.0	692	138665	77.94	UG/ML	99
63)	Di-n-butylphthalate	149.0	769	221607	88.54	UG/ML	98
64)	Fluoranthene	202.0	823	164665	75.45	UG/ML	92
65)	*Chrysene-d12	240.0	978	69333	40.00	UG/ML	86
66)	Benzidine	184.0	844	76090	79.97	UG/ML	91
67)	Pyrene	202.0	848	176797	82.94	UG/ML	97
68)	Butylbenzylphthalate	149.0	935	96863	78.65	UG/ML	90
69)	3,3'-Dichlorobenzidine	252.0	979	51028	70.82	UG/ML	80
70)	Benzo(a)anthracene	228.0	976	169686	76.10	UG/ML	97
71)	Bis(2-Ethylhexyl)phthalate	149.0	994	136743	94.56	UG/ML	92
72)	Chrysene	228.0	981	140414	85.27	UG/ML	96
73)	TERPHENYL-d14 (SURR)	244.0	873	130596	80.30	UG/ML	100
74)	*Perylene-d12	264.0	1095	77364	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1041	220560	99.22	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1065	236915	89.88	UG/ML	96
77)	Benzo(k)fluoranthene	252.0	1067	168237M	81.00	UG/ML	96
78)	Benzo(a)pyrene	252.0	1091	169610	87.56	UG/ML	95
79)	Indeno(1,2,3-cd)pyrene	276.0	1199	220922M	90.80	UG/ML	84
80)	Dibenz(a,h)anthracene	278.0	1202	165663	89.68	UG/ML	92
81)	Benzo(g,h,i)perylene	276.0	1229	187714	88.28	UG/ML	67

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >DF093::D1 Quant Output File: ^DF093::OU
Name: 0614S4D3 120PPM STD
Misc: GC/MS D,RHC,1ul inj. 120ppm BNASTD 333 BTL# 4

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

Operator ID: ROY
Quant Time: 930614 22:12
Injected at: 930614 21:31

QUANT REPORT

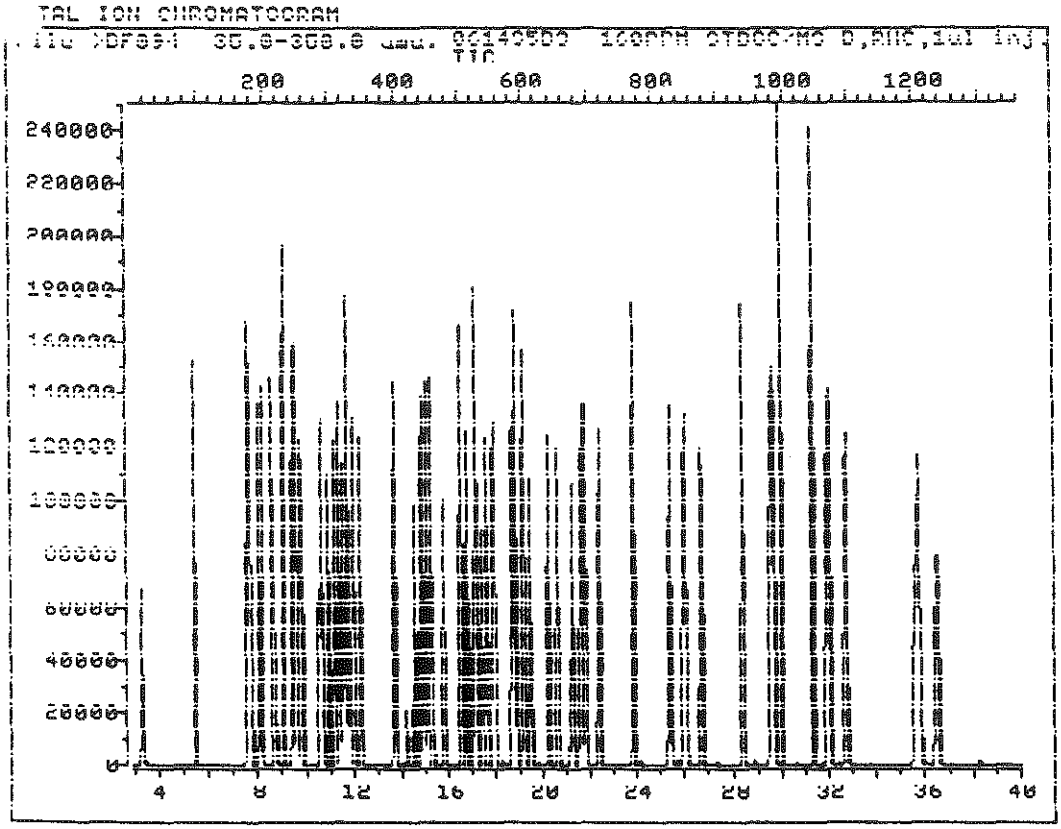
Operator ID: ROY Quant Rev: 6 Quant Time: 930614 22:12
Output File: ^DF093::OU Injected at: 930614 21:31
Data File: >DF093::D1 Dilution Factor: 1.00000
Name: 0614S4D3 120PPM STD
Misc: GC/MS D,RHC,1ul inj, 120ppm BNASTD 333 BTL# 4

ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	191	17462	40.00	UG/ML	85
2)	N-Nitroso-di-methylamine	42.0	14	49939	136.84	UG/ML	91
3)	Phenol	94.0	173	100955	147.96	UG/ML	97
4)	Aniline	93.0	175	77350M	136.03	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	175	77601	136.71	UG/ML	85
6)	2-Chlorophenol	128.0	177	69717	131.25	UG/ML	62
7)	1,3-Dichlorobenzene	146.0	188	68625	126.79	UG/ML	98
8)	1,4-Dichlorobenzene	146.0	193	61345	115.55	UG/ML	97
9)	Benzyl alcohol	108.0	212	45529	142.23	UG/ML	98
10)	1,2-Dichlorobenzene	146.0	210	56412	110.59	UG/ML	94
11)	2-Methylphenol	108.0	226	53679	120.76	UG/ML	98
12)	bis(2-Chloroisopropyl)ether	45.0	226	152749	163.31	UG/ML	46
13)	4-Methylphenol	108.0	243	65931	133.53	UG/ML	92
14)	N-Nitroso-di-n-propylamine	70.0	242	67527M	165.44	UG/ML	80
15)	Hexachloroethane	117.0	239	29884	124.43	UG/ML	82
16)	2-FLUOROPHENOL (SURR)	112.0	93	63342	146.82	UG/ML	95
17)	PHENOL-d5 (SURR)	99.0	172	97034	153.40	UG/ML	65
18)	*Naphthalene-d8	136.0	320	67089	40.00	UG/ML	96
19)	Nitrobenzene	77.0	252	88085	130.64	UG/ML	86
20)	Isophorone	82.0	279	191299	144.85	UG/ML	86
21)	2-Nitrophenol	139.0	284	40864	120.39	UG/ML	80
22)	2,4-Dimethylphenol	122.0	297	60969	140.95	UG/ML	72
23)	Benzoic acid	122.0	327	49457M	150.43	UG/ML	83
24)	bis(2-Chloroethoxy)methane	93.0	305	104882	145.68	UG/ML	84
25)	2,4-Dichlorophenol	162.0	311	57248	115.02	UG/ML	93
26)	1,2,4-Trichlorobenzene	180.0	316	63980	113.43	UG/ML	98
27)	Naphthalene	128.0	323	188449	139.08	UG/ML	96
28)	4-Chloroaniline	127.0	335	85536	124.02	UG/ML	97
29)	Hexachlorobutadiene	225.0	344	34217	98.86	UG/ML	97
30)	4-Chloro-3-methylphenol	107.0	394	77480M	133.81	UG/ML	
31)	2-Methylnaphthalene	142.0	399	120837	131.60	UG/ML	92
32)	NITROBENZENE-d5 (SURR)	82.0	250	100864	153.02	UG/ML	93
33)	*Acenaphthene-d10	164.0	517	38635	40.00	UG/ML	97
34)	Hexachlorocyclopentadiene	237.0	424	42097	127.82	UG/ML	96
35)	2,4,6-Trichlorophenol	196.0	436	48737	119.20	UG/ML	97
36)	2,4,5-Trichlorophenol	196.0	441	53200	118.83	UG/ML	95
37)	2-Chloronaphthalene	162.0	453	126423	132.41	UG/ML	93
38)	2-Nitroaniline	65.0	473	66559M	132.72	UG/ML	70
39	Dimethylphthalate	163.0	501	144929	121.17	UG/ML	97
40)	Acenaphthylene	152.0	499	182385	129.19	UG/ML	96
41)	3-Nitroaniline	138.0	522	37250M	80.82	UG/ML	85
42)	Acenaphthene	153.0	521	105986	123.27	UG/ML	95
43)	2,4-Dinitrophenol	184.0	532	28601	111.92	UG/ML	78

	Compound	Q ion	Scan#	Area	Conc	Units	q
44	4-Nitrophenol	109.0	548	27935	150.75	UG/ML	66
45)	Dibenzofuran	168.0	540	164503	113.31	UG/ML	96
46)	2,4-Dinitrotoluene	165.0	550	65703	130.51	UG/ML	81
47)	2,6-Dinitrotoluene	165.0	507	40104	112.31	UG/ML	92
48)	Diethylphthalate	149.0	583	113004	96.34	UG/ML	99
49)	4-Chlorophenyl-phenylether	204.0	582	51847	98.35	UG/ML	89
50)	Fluorene	166.0	579	123141	111.60	UG/ML	97
51)	4-Nitroaniline	138.0	596	45680	124.85	UG/ML	58
52)	2-FLUOROBIPHENYL (SURR)	172.0	446	133054	129.37	UG/ML	96
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	608	51979	133.74	UG/ML	100
54)	*Phenanthrene-d10	188.0	684	73381	40.00	UG/ML	95
55)	4,6-Dinitro-2-methylphenol	198.0	598	38220	129.23	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	600	95642	130.47	UG/ML	94
57)	1,2-Diphenyl Hydrazine	77.0	522	12665M	153.75	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	637	46600	115.75	UG/ML	88
59)	Hexachlorobenzene	284.0	650	71661	118.57	UG/ML	92
60)	Pentachlorophenol	266.0	674	48069	131.93	UG/ML	96
61)	Phenanthrene	178.0	687	200191	129.53	UG/ML	98
62)	Anthracene	178.0	693	192403	122.20	UG/ML	99
63)	Di-n-butylphthalate	149.0	769	271529	122.57	UG/ML	98
64)	Fluoranthene	202.0	823	234760	121.53	UG/ML	92
65)	*Chrysene-d12	240.0	978	59005	40.00	UG/ML	80
66)	Benzidine	184.0	844	107684	132.99	UG/ML	91
67)	Pyrene	202.0	848	233024	128.44	UG/ML	91
68)	Butylbenzylphthalate	149.0	936	135289	129.08	UG/ML	93
69)	3,3'-Dichlorobenzidine	252.0	980	72234	117.81	UG/ML	82
70)	Benzo(a)anthracene	228.0	977	228462	120.40	UG/ML	97
71)	Bis(2-Ethylhexyl)phthalate	149.0	994	161226	131.00	UG/ML	89
72)	Chrysene	228.0	982	177330	126.54	UG/ML	96
73)	TERPHENYL-d14 (SURR)	244.0	873	179781	129.89	UG/ML	100
74)	*Perylene-d12	264.0	1096	68596	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1042	270052	137.02	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1067	319050M	136.52	UG/ML	95
77)	Benzo(k)fluoranthene	252.0	1068	236733M	128.55	UG/ML	95
78)	Benzo(a)pyrene	252.0	1092	239283	139.31	UG/ML	95
79)	Indeno(1,2,3-cd)pyrene	276.0	1202	308507M	143.00	UG/ML	86
80)	Dibenz(a,h)anthracene	278.0	1205	234920	143.43	UG/ML	95
81)	Benzo(g,h,i)perylene	276.0	1232	262742	139.37	UG/ML	68

* Compound is ISTD



Data File: >DF094::D1 Quant Output File: ^DF094::OU
Name: 0614S5D3 160PPM STD
Misc: GC/MS D,RHC,1ul inj. 160ppm BNASTD 334 BTL# 5

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

Operator ID: ROY
Quant Time: 930614 23:02
Injected at: 930614 22:21

QUANT REPORT

Operator ID: ROY Quant Rev: 6 Quant Time: 930614 23:02
Output File: ^DF094::OU Injected at: 930614 22:21
Data File: >DF094::D1 Dilution Factor: 1.00000
Name: 0614S5D3 160PPM STD
Misc: GC/MS D,RHC,1ul inj. 160ppm BNASTD 334 BTL# 5

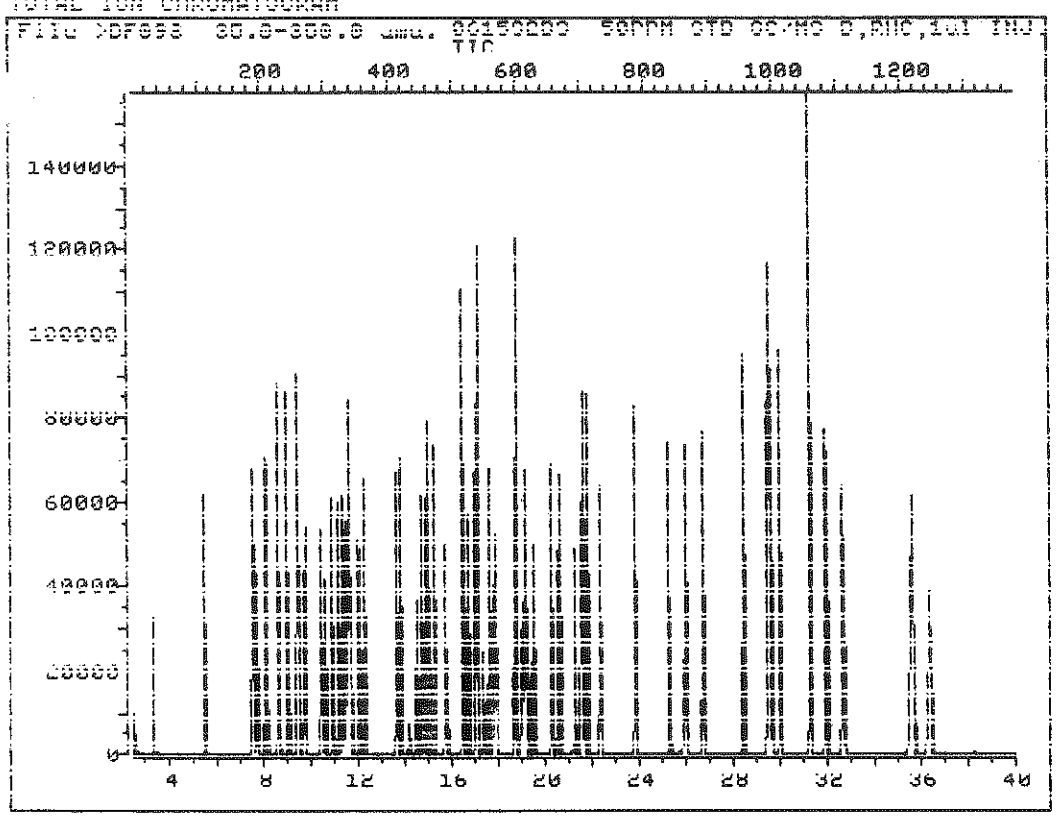
ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930526 14:29

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	191	17736	40.00	UG/ML	86
2)	N-Nitroso-di-methylamine	42.0	14	65022	175.41	UG/ML	93
3)	Phenol	94.0	173	97868	141.22	UG/ML	97
4)	Aniline	93.0	175	100040M	173.21	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	175	100061	173.55	UG/ML	83
6)	2-Chlorophenol	128.0	177	84413	156.46	UG/ML	62
7)	1,3-Dichlorobenzene	146.0	188	84165	153.10	UG/ML	99
8)	1,4-Dichlorobenzene	146.0	193	75403	139.83	UG/ML	98
9)	Benzyl alcohol	108.0	213	59301	182.39	UG/ML	98
10)	1,2-Dichlorobenzene	146.0	210	71389	137.79	UG/ML	94
11)	2-Methylphenol	108.0	226	68618	151.98	UG/ML	96
12)	bis(2-Chloroisopropyl)ether	45.0	225	192609	202.74	UG/ML	74
13)	4-Methylphenol	108.0	244	83806	167.11	UG/ML	92
14)	N-Nitroso-di-n-propylamine	70.0	246	91332M	220.31	UG/ML	75
15)	Hexachloroethane	117.0	239	37372	153.21	UG/ML	96
16)	2-FLUOROPHENOL (SURR)	112.0	93	81565	186.14	UG/ML	91
17)	PHENOL-d5 (SURR)	99.0	172	118319	184.16	UG/ML	67
18)	*Naphthalene-d8	136.0	320	68674	40.00	UG/ML	99
19)	Nitrobenzene	77.0	253	128981	186.88	UG/ML	64
20)	Isophorone	82.0	280	207006	153.12	UG/ML	86
21)	2-Nitrophenol	139.0	284	50907	146.52	UG/ML	77
22)	2,4-Dimethylphenol	122.0	297	75448	170.39	UG/ML	77
23)	Benzoic acid	122.0	331	68181M	202.59	UG/ML	81
24)	bis(2-Chloroethoxy)methane	93.0	305	124687	169.19	UG/ML	83
25)	2,4-Dichlorophenol	162.0	311	77525	152.17	UG/ML	93
26)	1,2,4-Trichlorobenzene	180.0	316	79905	138.39	UG/ML	98
27)	Naphthalene	128.0	323	230638	166.28	UG/ML	96
28)	4-Chloroaniline	127.0	335	110375	156.34	UG/ML	96
29)	Hexachlorobutadiene	225.0	344	44222	124.81	UG/ML	96
30)	4-Chloro-3-methylphenol	107.0	394	100937M	170.30	UG/ML	
31)	2-Methylnaphthalene	142.0	399	151919	161.63	UG/ML	92
32)	NITROBENZENE-d5 (SURR)	82.0	251	128165	189.95	UG/ML	92
33)	*Acenaphthene-d10	164.0	516	39933	40.00	UG/ML	96
34)	Hexachlorocyclopentadiene	237.0	424	50551	148.50	UG/ML	95
35)	2,4,6-Trichlorophenol	196.0	436	65143	154.15	UG/ML	96
36)	2,4,5-Trichlorophenol	196.0	441	63926	138.14	UG/ML	97
37)	2-Chloronaphthalene	162.0	453	154804	156.87	UG/ML	94
38)	2-Nitroaniline	65.0	474	99965M	192.86	UG/ML	65
39)	Dimethylphthalate	163.0	501	182791	147.85	UG/ML	97
40)	Acenaphthylene	152.0	499	229819	157.50	UG/ML	96
41)	3-Nitroaniline	138.0	523	52049M	109.25	UG/ML	85
42)	Acenaphthene	153.0	521	133370	150.08	UG/ML	96
43)	2,4-Dinitrophenol	184.0	533	42736	161.80	UG/ML	68

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	109.0	549	34450	179.86	UG/ML	63
45)	Dibenzofuran	168.0	540	210501	140.28	UG/ML	96
46)	2,4-Dinitrotoluene	165.0	551	79252	152.31	UG/ML	82
47)	2,6-Dinitrotoluene	165.0	508	57079	154.65	UG/ML	89
48)	Diethylphthalate	149.0	584	155638	128.37	UG/ML	98
49)	4-Chlorophenyl-phenylether	204.0	582	65519	120.25	UG/ML	86
50)	Fluorene	166.0	579	156232	136.99	UG/ML	95
51)	4-Nitroaniline	138.0	598	57680	152.52	UG/ML	58
52)	2-FLUOROBIPHENYL (SURR)	172.0	446	163557	153.86	UG/ML	95
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	609	67163	167.19	UG/ML	100
54)	*Phenanthrene-d10	188.0	684	75668	40.00	UG/ML	94
55)	4,6-Dinitro-2-methylphenol	198.0	599	43504	142.65	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	600	102644	135.79	UG/ML	94
57)	1,2-Diphenyl Hydrazine	77.0	522	15873M	186.88	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	637	57715	139.02	UG/ML	87
59)	Hexachlorobenzene	284.0	650	94550	151.71	UG/ML	90
60)	Pentachlorophenol	266.0	674	64112	170.65	UG/ML	97
61)	Phenanthrene	178.0	688	240268	150.76	UG/ML	98
62)	Anthracene	178.0	693	227673	140.23	UG/ML	99
63)	Di-n-butylphthalate	149.0	769	337894	147.92	UG/ML	98
64)	Fluoranthene	202.0	824	297813	149.52	UG/ML	96
65)	*Chrysene-d12	240.0	978	61530	40.00	UG/ML	80
66)	Benzidine	184.0	845	137761	163.15	UG/ML	94
67)	Pyrene	202.0	849	300379	158.78	UG/ML	97
68)	Butylbenzylphthalate	149.0	936	172161	157.52	UG/ML	84
69)	3,3'-Dichlorobenzidine	252.0	980	72583	113.52	UG/ML	81
70)	Benzo(a)anthracene	228.0	977	292811	147.98	UG/ML	96
71)	Bis(2-Ethylhexyl)phthalate	149.0	994	205101	159.81	UG/ML	91
72)	Chrysene	228.0	982	201655	137.99	UG/ML	98
73)	TERPHENYL-d14 (SURR)	244.0	873	230121	159.44	UG/ML	100
74)	*Perylene-d12	264.0	1096	68814	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1042	349052	176.54	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1067	373295M	159.22	UG/ML	95
77)	Benzo(k)fluoranthene	252.0	1069	284162M	153.82	UG/ML	95
78)	Benzo(a)pyrene	252.0	1093	296623	172.15	UG/ML	97
79)	Indeno(1,2,3-cd)pyrene	276.0	1203	383391M	177.15	UG/ML	93
80)	Dibenz(a,h)anthracene	278.0	1206	287687	175.09	UG/ML	92
81)	Benzo(g,h,i)perylene	276.0	1233	331792	175.43	UG/ML	68

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >DF098::D1 Quant Output File: ^DF098::OU
Name: 0615S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul INJ. 50ppm BNASTD BTL# 1

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930615 09:15

Operator ID: ROY
Quant Time: 930615 09:57
Injected at: 930615 09:16

QUANT REPORT

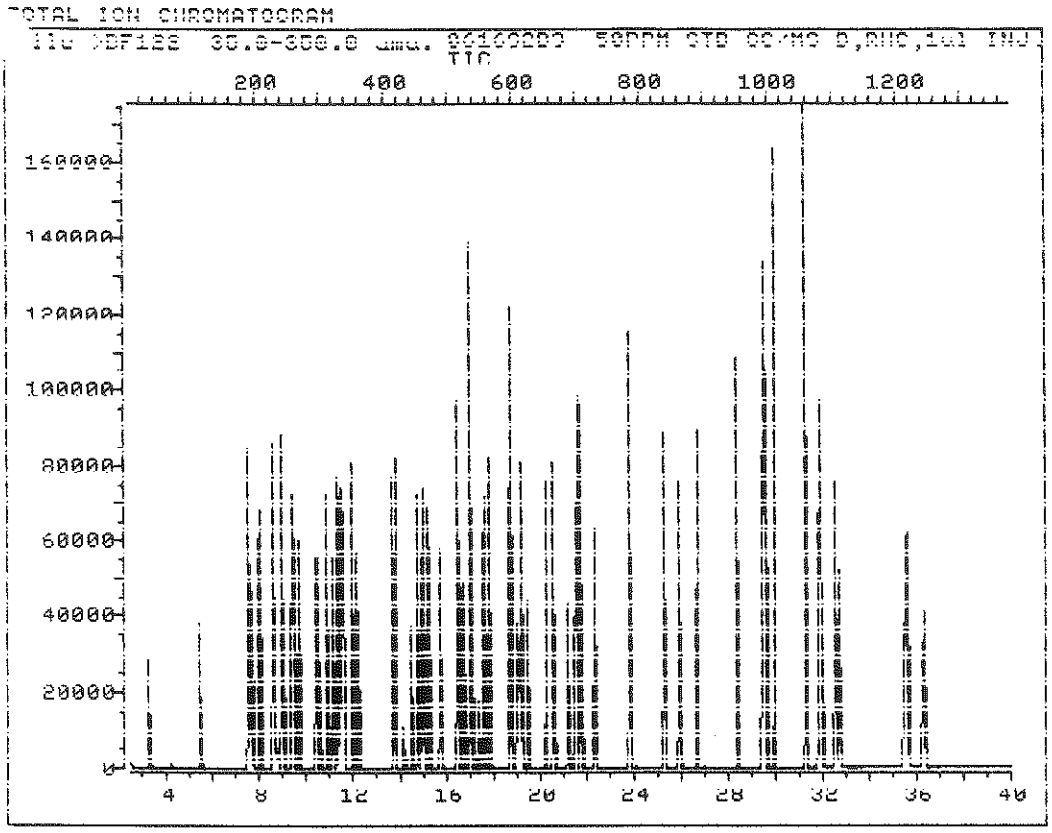
Operator ID: ROY Quant Rev: 6 Quant Time: 930615 09:57
Output File: ^DF098::OU Injected at: 930615 09:16
Data File: >DF098::D1 Dilution Factor: 1.00000
Name: 0615S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul INJ. 50ppm BNASTD BTL# 1

ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930615 09:15

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	206	21421	40.00	UG/ML	87
2)	N-Nitroso-di-methylamine	42.0	28	23457	43.20	UG/ML	82
3)	Phenol	94.0	186	41497	45.54	UG/ML	86
4)	Aniline	93.0	189	36946M	45.13	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	189	36984	45.18	UG/ML	89
6)	2-Chlorophenol	128.0	190	30648	43.70	UG/ML	95
7)	1,3-Dichlorobenzene	146.0	202	35642	50.22	UG/ML	99
8)	1,4-Dichlorobenzene	146.0	207	35598	52.21	UG/ML	89
9)	Benzyl alcohol	108.0	225	22499	48.65	UG/ML	98
10)	1,2-Dichlorobenzene	146.0	224	31195	50.58	UG/ML	91
11)	2-Methylphenol	108.0	240	25915	43.87	UG/ML	96
12)	bis(2-Chloroisopropyl)ether	45.0	240	50599	34.72	UG/ML	2
13)	4-Methylphenol	108.0	255	26305	40.30	UG/ML	94
14)	N-Nitroso-di-n-propylamine	70.0	254	25209M	39.02	UG/ML	92
15)	Hexachloroethane	117.0	253	14853	48.08	UG/ML	53
16)	2-FLUOROPHENOL (SURR)	112.0	107	30206	47.65	UG/ML	84
17)	PHENOL-d5 (SURR)	99.0	185	39734	42.30	UG/ML	60
18)	*Naphthalene-d8	136.0	334	75799	40.00	UG/ML	91
19)	Nitrobenzene	77.0	265	36764	43.05	UG/ML	95
20)	Isophorone	82.0	290	75107	45.23	UG/ML	89
21)	2-Nitrophenol	139.0	297	17284	45.60	UG/ML	94
22)	2,4-Dimethylphenol	122.0	309	23807	43.01	UG/ML	73
23)	Benzoic acid	122.0	332	17607	41.17	UG/ML	96
24)	bis(2-Chloroethoxy)methane	93.0	318	43844	45.19	UG/ML	87
25)	2,4-Dichlorophenol	162.0	324	26855	47.91	UG/ML	94
26)	1,2,4-Trichlorobenzene	180.0	330	31680	51.34	UG/ML	95
27)	Naphthalene	128.0	336	88727	50.63	UG/ML	95
28)	4-Chloroaniline	127.0	348	42211	49.59	UG/ML	97
29)	Hexachlorobutadiene	225.0	358	19751	56.42	UG/ML	98
30)	4-Chloro-3-methylphenol	107.0	407	30894	44.64	UG/ML	54
31)	2-Methylnaphthalene	142.0	412	55392	48.71	UG/ML	93
32)	NITROBENZENE-d5 (SURR)	82.0	263	41623	46.30	UG/ML	90
33)	*Acenaphthene-d10	164.0	531	40497	40.00	UG/ML	97
34)	Hexachlorocyclopentadiene	237.0	439	18019	50.98	UG/ML	95
35)	2,4,6-Trichlorophenol	196.0	450	22224	51.66	UG/ML	96
36)	2,4,5-Trichlorophenol	196.0	454	22000	48.56	UG/ML	96
37)	2-Chloronaphthalene	162.0	466	54926	50.35	UG/ML	97
38)	2-Nitroaniline	65.0	486	26574	44.89	UG/ML	94
3	Dimethylphthalate	163.0	514	69072	53.32	UG/ML	98
40)	Acenaphthylene	152.0	513	96203	58.43	UG/ML	96
41)	3-Nitroaniline	138.0	534	18963	54.26	UG/ML	54
42)	Acenaphthene	153.0	535	58837	59.78	UG/ML	95
43)	2,4-Dinitrophenol	184.0	544	9588	47.10	UG/ML	89

	Compound	Q ion	Scan#	Area	Conc	Units	q
4	4-Nitrophenol	109.0	561	12678	57.08	UG/ML	26
45)	Dibenzofuran	168.0	553	84930	54.96	UG/ML	99
46)	2,4-Dinitrotoluene	165.0	563	27552	50.09	UG/ML	82
47)	2,6-Dinitrotoluene	165.0	520	18043	49.75	UG/ML	85
48)	Diethylphthalate	149.0	596	76498	63.70	UG/ML	98
49)	4-Chlorophenyl-phenylether	204.0	596	31881	60.23	UG/ML	97
50)	Fluorene	166.0	592	67163	57.90	UG/ML	98
51)	4-Nitroaniline	138.0	606	20217	51.43	UG/ML	33
52)	2-FLUOROBIPHENYL (SURR)	172.0	459	63964	53.51	UG/ML	96
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	622	22587	52.46	UG/ML	100
54)	*Phenanthrene-d10	188.0	698	78816	40.00	UG/ML	92
55)	4,6-Dinitro-2-methylphenol	198.0	609	15468	51.49	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	612	46097	54.09	UG/ML	93
57)	1,2-Diphenyl Hydrazine	77.0	535	5287M	46.25	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	650	24329	55.18	UG/ML	91
59)	Hexachlorobenzene	284.0	663	34866	52.36	UG/ML	87
60)	Pentachlorophenol	266.0	687	18665	47.71	UG/ML	96
61)	Phenanthrene	178.0	701	104930	58.35	UG/ML	97
62)	Anthracene	178.0	706	105684	59.02	UG/ML	99
63)	Di-n-butylphthalate	149.0	783	141233	54.89	UG/ML	96
64)	Fluoranthene	202.0	837	111255	53.42	UG/ML	96
65)	*Chrysene-d12	240.0	992	74513	40.00	UG/ML	86
66)	Benzidine	184.0	857	30317	30.29	UG/ML	88
67)	Pyrene	202.0	861	110042	47.44	UG/ML	83
68)	Butylbenzylphthalate	149.0	949	59194	45.09	UG/ML	88
69)	3,3'-Dichlorobenzidine	252.0	992	31853	50.21	UG/ML	78
70)	Benzo(a)anthracene	228.0	990	109134	47.73	UG/ML	98
71)	Bis(2-Ethylhexyl)phthalate	149.0	1007	63242	36.95	UG/ML	93
72)	Chrysene	228.0	995	105010	55.30	UG/ML	97
73)	TERPHENYL-d14 (SURR)	244.0	887	90430	49.75	UG/ML	100
74)	*Perylene-d12	264.0	1109	70851M	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1055	157264M	60.55	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1078	133478	52.75	UG/ML	94
77)	Benzo(k)fluoranthene	252.0	1080	96759M	49.11	UG/ML	94
78)	Benzo(a)pyrene	252.0	1104	103466	50.85	UG/ML	93
79)	Indeno(1,2,3-cd)pyrene	276.0	1212	131133	50.10	UG/ML	81
80)	Dibenz(a,h)anthracene	278.0	1215	102505	51.34	UG/ML	95
81)	Benzo(g,h,i)perylene	276.0	1242	105339	47.49	UG/ML	64

* Compound is ISTD



Data File: >DF122::D1 Quant Output File: ^DF122::OU
Name: 0616S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul INJ. 50ppm BNASTD BTL# 1

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930615 09:15

Operator ID: ROY
Quant Time: 930616 18:48
Injected at: 930616 18:07

QUANT REPORT

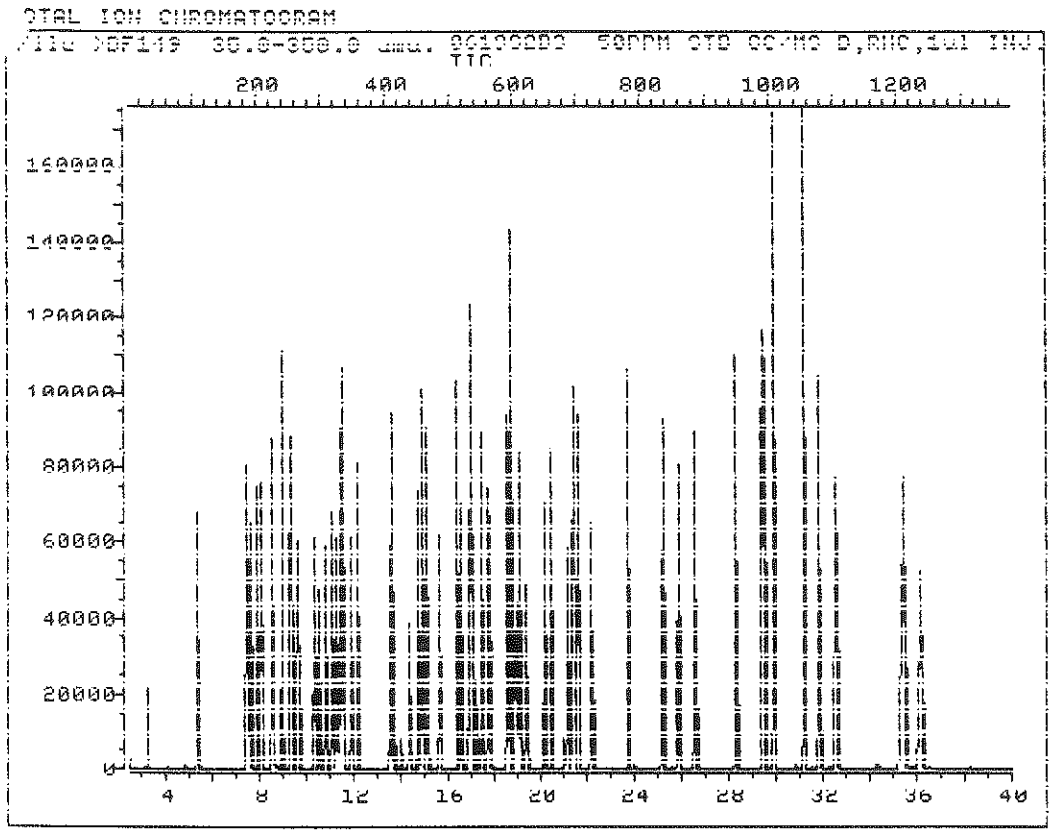
Operator ID: ROY Quant Rev: 6 Quant Time: 930616 18:48
Output File: ^DF122::OU Injected at: 930616 18:07
Data File: >DF122::D1 Dilution Factor: 1.00000
Name: 0616S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul INJ. 50ppm BNASTD BTL# 1

ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930615 09:15

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	205	22863	40.00	UG/ML	86
2)	N-Nitroso-di-methylamine	42.0	98	21547M	37.18	UG/ML	77
3)	Phenol	94.0	186	46471	47.78	UG/ML	96
4)	Aniline	93.0	188	37343M	42.74	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	188	36902	42.23	UG/ML	88
6)	2-Chlorophenol	128.0	190	35708	47.70	UG/ML	93
7)	1,3-Dichlorobenzene	146.0	201	35286	46.58	UG/ML	97
8)	1,4-Dichlorobenzene	146.0	206	36199	49.74	UG/ML	85
9)	Benzyl alcohol	108.0	225	19802	40.11	UG/ML	92
10)	1,2-Dichlorobenzene	146.0	224	34041	51.71	UG/ML	93
11)	2-Methylphenol	108.0	240	32260	51.16	UG/ML	96
12)	bis(2-Chloroisopropyl)ether	45.0	239	58356	37.52	UG/ML	89
13)	4-Methylphenol	108.0	255	35075	50.35	UG/ML	93
14)	N-Nitroso-di-n-propylamine	70.0	254	33311	48.31	UG/ML	91
15)	Hexachloroethane	117.0	253	15011	45.53	UG/ML	76
16)	2-FLUOROPHENOL (SURR)	112.0	107	30033	44.39	UG/ML	63
17)	PHENOL-d5 (SURR)	99.0	185	44041	43.93	UG/ML	74
18)	*Naphthalene-d8	136.0	333	85489	40.00	UG/ML	91
19)	Nitrobenzene	77.0	265	45512	47.25	UG/ML	74
20)	Isophorone	82.0	290	86330	46.10	UG/ML	89
21)	2-Nitrophenol	139.0	297	22775	53.28	UG/ML	88
22)	2,4-Dimethylphenol	122.0	309	30240	48.44	UG/ML	80
23)	Benzoic acid	122.0	333	19346	40.10	UG/ML	95
24)	bis(2-Chloroethoxy)methane	93.0	317	46198	42.22	UG/ML	86
25)	2,4-Dichlorophenol	162.0	324	33149	52.44	UG/ML	94
26)	1,2,4-Trichlorobenzene	180.0	330	35729	51.34	UG/ML	99
27)	Naphthalene	128.0	335	96753	48.95	UG/ML	95
28)	4-Chloroaniline	127.0	348	49696	51.77	UG/ML	96
29)	Hexachlorobutadiene	225.0	357	22098	55.97	UG/ML	97
30)	4-Chloro-3-methylphenol	107.0	408	39553	50.68	UG/ML	45
31)	2-Methylnaphthalene	142.0	412	66282	51.68	UG/ML	93
32)	NITROBENZENE-d5 (SURR)	82.0	263	46560	45.92	UG/ML	96
33)	*Acenaphthene-d10	164.0	530	46790M	40.00	UG/ML	96
34)	Hexachlorocyclopentadiene	237.0	438	16677	40.84	UG/ML	95
35)	2,4,6-Trichlorophenol	196.0	450	26583	53.48	UG/ML	98
36)	2,4,5-Trichlorophenol	196.0	454	29242	55.86	UG/ML	96
[illegible]	2-Chloronaphthalene	162.0	465	66905	53.08	UG/ML	96
38)	2-Nitroaniline	65.0	486	31771	46.46	UG/ML	85
39)	Dimethylphthalate	163.0	513	84290	56.32	UG/ML	99
40)	Acenaphthylene	152.0	512	99790	52.46	UG/ML	96
41)	3-Nitroaniline	138.0	534	22146	54.85	UG/ML	49
42)	Acenaphthene	153.0	534	58413	51.37	UG/ML	93
43)	2,4-Dinitrophenol	184.0	544	7086	30.13	UG/ML	71

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	109.0	562	13005	50.68	UG/ML	65
45)	Dibenzofuran	168.0	552	98403	55.11	UG/ML	99
46)	2,4-Dinitrotoluene	165.0	562	31274	49.21	UG/ML	89
47)	2,6-Dinitrotoluene	165.0	519	20513	48.96	UG/ML	96
48)	Diethylphthalate	149.0	595	83782	60.38	UG/ML	97
49)	4-Chlorophenyl-phenylether	204.0	595	36381	59.48	UG/ML	98
50)	Fluorene	166.0	591	77072	57.51	UG/ML	99
51)	4-Nitroaniline	138.0	606	23975	52.78	UG/ML	46
52)	2-FLUOROBIPHENYL (SURR)	172.0	458	77216	55.90	UG/ML	97
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	621	24100	48.45	UG/ML	100
54)	*Phenanthrene-d10	188.0	697	92422	40.00	UG/ML	90
55)	4,6-Dinitro-2-methylphenol	198.0	608	14152	40.17	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	612	58069	58.10	UG/ML	94
57)	1,2-Diphenyl Hydrazine	77.0	534	5911M	44.10	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	650	27225	52.66	UG/ML	87
59)	Hexachlorobenzene	284.0	663	39575	50.68	UG/ML	94
60)	Pentachlorophenol	266.0	687	17499	38.14	UG/ML	96
61)	Phenanthrene	178.0	700	110872	52.58	UG/ML	98
62)	Anthracene	178.0	705	110501	52.62	UG/ML	98
63)	Di-n-butylphthalate	149.0	782	161824	53.64	UG/ML	98
64)	Fluoranthene	202.0	836	122754	50.27	UG/ML	89
65)	*Chrysene-d12	240.0	991	84438	40.00	UG/ML	82
66)	Benzidine	184.0	857	43300	38.17	UG/ML	89
67)	Pyrene	202.0	860	124145	47.23	UG/ML	81
68)	Butylbenzylphthalate	149.0	949	74074	49.79	UG/ML	87
69)	3,3'-Dichlorobenzidine	252.0	992	41847	58.21	UG/ML	80
70)	Benzo(a)anthracene	228.0	989	119140	45.98	UG/ML	98
71)	Bis(2-Ethylhexyl)phthalate	149.0	1007	97026	50.02	UG/ML	94
72)	Chrysene	228.0	994	101200	47.03	UG/ML	97
73)	TERPHENYL-d14 (SURR)	244.0	886	98909	48.02	UG/ML	100
74)	*Perylene-d12	264.0	1108	76226	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1055	142617M	51.04	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1078	159746	58.68	UG/ML	97
77)	Benzo(k)fluoranthene	252.0	1080	118092M	55.72	UG/ML	97
78)	Benzo(a)pyrene	252.0	1104	113007	51.62	UG/ML	97
79)	Indeno(1,2,3-cd)pyrene	276.0	1210	131986	46.87	UG/ML	78
80)	Dibenz(a,h)anthracene	278.0	1213	99917	46.51	UG/ML	94
81)	Benzo(g,h,i)perylene	276.0	1240	104460	43.77	UG/ML	65

* Compound is ISTD



Data File: >DF149::D1 Quant Output File: ^DF149::OU
Name: 0619S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul INJ. 50ppm BNASTD BTL# 1

Id File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930615 09:15

Operator ID: ROY
Quant Time: 930619 16:31
Injected at: 930619 15:50

QUANT REPORT

Operator ID: ROY Quant Rev: 6 Quant Time: 930619 16:31
Output File: ^DF149::OU Injected at: 930619 15:50
Data File: >DF149::D1 Dilution Factor: 1.00000
Name: 0619S2D3 50PPM STD
Misc: GC/MS D,RHC,1ul INJ. 50ppm BNASTD BTL# 1

ID File: IDSDF3::IC
Title: HP BNA STANDARDS METHOD 625
Last Calibration: 930615 09:15

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	202	24773	40.00	UG/ML	86
2)	N-Nitroso-di-methylamine	42.0	25	21565	34.34	UG/ML	49
3)	Phenol	94.0	182	42043	39.90	UG/ML	95
4)	Aniline	93.0	185	43274M	45.71	UG/ML	
5)	bis(2-Chloroethyl)ether	93.0	185	43027	45.45	UG/ML	88
6)	2-Chlorophenol	128.0	187	37814	46.62	UG/ML	70
7)	1,3-Dichlorobenzene	146.0	198	40013	48.75	UG/ML	98
8)	1,4-Dichlorobenzene	146.0	203	39701	50.35	UG/ML	88
9)	Benzyl alcohol	108.0	221	24974	46.69	UG/ML	96
10)	1,2-Dichlorobenzene	146.0	220	34904	48.93	UG/ML	92
11)	2-Methylphenol	108.0	236	30137	44.11	UG/ML	97
12)	bis(2-Chloroisopropyl)ether	45.0	236	67889	40.28	UG/ML	25
13)	4-Methylphenol	108.0	252	37915	50.23	UG/ML	93
14)	N-Nitroso-di-n-propylamine	70.0	251	33263	44.52	UG/ML	80
15)	Hexachloroethane	117.0	249	17240	48.26	UG/ML	64
16)	2-FLUOROPHENOL (SURR)	112.0	104	32911	44.89	UG/ML	98
17)	PHENOL-d5 (SURR)	99.0	181	48266	44.43	UG/ML	74
18)	*Naphthalene-d8	136.0	330	92617	40.00	UG/ML	96
19)	Nitrobenzene	77.0	261	45645	43.74	UG/ML	97
20)	Isophorone	82.0	286	93799	46.23	UG/ML	89
21)	2-Nitrophenol	139.0	293	22121	47.77	UG/ML	92
22)	2,4-Dimethylphenol	122.0	305	25826	38.18	UG/ML	76
23)	Benzoic acid	122.0	329	24835	47.52	UG/ML	95
24)	bis(2-Chloroethoxy)methane	93.0	314	51864	43.75	UG/ML	86
25)	2,4-Dichlorophenol	162.0	320	33258	48.56	UG/ML	91
26)	1,2,4-Trichlorobenzene	180.0	326	38301	50.80	UG/ML	96
27)	Naphthalene	128.0	332	105624	49.33	UG/ML	95
28)	4-Chloroaniline	127.0	344	43384	41.72	UG/ML	96
29)	Hexachlorobutadiene	225.0	354	25391	59.36	UG/ML	97
30)	4-Chloro-3-methylphenol	107.0	403	38453	45.48	UG/ML	66
31)	2-Methylnaphthalene	142.0	408	68081	49.00	UG/ML	96
32)	NITROBENZENE-d5 (SURR)	82.0	259	52603	47.89	UG/ML	92
33)	*Acenaphthene-d10	164.0	526	51312	40.00	UG/ML	98
34)	Hexachlorocyclopentadiene	237.0	434	18415	41.12	UG/ML	98
35)	2,4,6-Trichlorophenol	196.0	446	28519	52.32	UG/ML	97
[illegible]	2,4,5-Trichlorophenol	196.0	450	30566	53.24	UG/ML	96
[illegible]	2-Chloronaphthalene	162.0	462	73573	53.22	UG/ML	93
38)	2-Nitroaniline	65.0	482	35102	46.80	UG/ML	93
39)	Dimethylphthalate	163.0	510	86817	52.89	UG/ML	98
40)	Acenaphthylene	152.0	508	114618	54.95	UG/ML	96
41)	3-Nitroaniline	138.0	530	21956M	49.58	UG/ML	
42)	Acenaphthene	153.0	530	68461	54.90	UG/ML	94
43)	2,4-Dinitrophenol	184.0	540	11489	44.54	UG/ML	91

	Compound	Q ion	Scan#	Area	Conc	Units	q
44)	4-Nitrophenol	109.0	557	13577	48.24	UG/ML	67
45)	Dibenzofuran	168.0	549	108085	55.20	UG/ML	98
46)	2,4-Dinitrotoluene	165.0	559	35618	51.10	UG/ML	96
47)	2,6-Dinitrotoluene	165.0	516	25182	54.80	UG/ML	86
48)	Diethylphthalate	149.0	592	85491	56.18	UG/ML	97
49)	4-Chlorophenyl-phenylether	204.0	592	40280	60.06	UG/ML	93
50)	Fluorene	166.0	588	85912	58.45	UG/ML	97
51)	4-Nitroaniline	138.0	602	23242	46.66	UG/ML	53
52)	2-FLUOROBIPHENYL (SURR)	172.0	455	84395	55.72	UG/ML	96
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	617	28424	52.10	UG/ML	100
54)	*Phenanthrene-d10	188.0	693	99968	40.00	UG/ML	89
55)	4,6-Dinitro-2-methylphenol	198.0	605	18872	49.53	UG/ML	100
56)	N-Nitrosodiphenylamine	169.0	608	57468	53.16	UG/ML	94
57)	1,2-Diphenyl Hydrazine	77.0	531	7109M	49.03	UG/ML	
58)	4-Bromophenyl-phenylether	248.0	646	29712	53.13	UG/ML	92
59)	Hexachlorobenzene	284.0	659	44064	52.17	UG/ML	93
60)	Pentachlorophenol	266.0	683	25469	51.32	UG/ML	96
61)	Phenanthrene	178.0	696	118067	51.76	UG/ML	97
62)	Anthracene	178.0	701	116169	51.14	UG/ML	99
63)	Di-n-butylphthalate	149.0	778	156203	47.86	UG/ML	98
64)	Fluoranthene	202.0	832	136737	51.77	UG/ML	89
65)	*Chrysene-d12	240.0	988	88027	40.00	UG/ML	87
67)	Pyrene	202.0	856	142402	51.97	UG/ML	82
68)	Butylbenzylphthalate	149.0	945	72038	46.45	UG/ML	90
69)	3,3'-Dichlorobenzidine	252.0	989	43719	58.33	UG/ML	82
70)	Benzo(a)anthracene	228.0	986	137802	51.01	UG/ML	97
71)	Bis(2-Ethylhexyl)phthalate	149.0	1004	101692	50.29	UG/ML	91
72)	Chrysene	228.0	991	125497	55.94	UG/ML	96
73)	TERPHENYL-d14 (SURR)	244.0	882	109358	50.93	UG/ML	100
74)	*Perylene-d12	264.0	1105	86386	40.00	UG/ML	100
75)	Di-n-octylphthalate	149.0	1052	190303	60.10	UG/ML	100
76)	Benzo(b)fluoranthene	252.0	1074	155186	50.30	UG/ML	94
77)	Benzo(k)fluoranthene	252.0	1077	132659	55.23	UG/ML	94
78)	Benzo(a)pyrene	252.0	1100	129617	52.24	UG/ML	93
79)	Indeno(1,2,3-cd)pyrene	276.0	1236	147896	46.34	UG/ML	82
80)	Dibenz(a,h)anthracene	278.0	1209	130705	53.69	UG/ML	92
81)	Benzo(g,h,i)perylene	276.0	1236	147896	54.69	UG/ML	65

* Compound is ISTD

Section d).

RAW QC DATA

Method Blank Data

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0526-BC BLK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix: WATER Lab Sample ID: 0526-BC BLK

Sample (wt/vol): 1000 mL Lab File ID: >DF032

Level: LOW Date Received: N.A.

% Moisture: (not dec) N.A. (dec) N.A. Date Extracted: 05/26/93

Extraction: CONT Date Analyzed: 6/07/93

GPC Cleanup: N pH: 2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0526-BC BLK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

Matrix: WATER Lab Sample ID: 0526-BC BLK

Sample (wt/vol): 1000 mL Lab File ID: >DF032

Level: LOW Date Received: N.A.

% Moisture: (not dec) N.A. (dec) N.A. Date Extracted: 05/26/93

Extraction: CONT Date Analyzed: 6/07/93

GPC Cleanup: N pH: 2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	Bis(2-Ethylhexyl)phthalate	10.	U
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

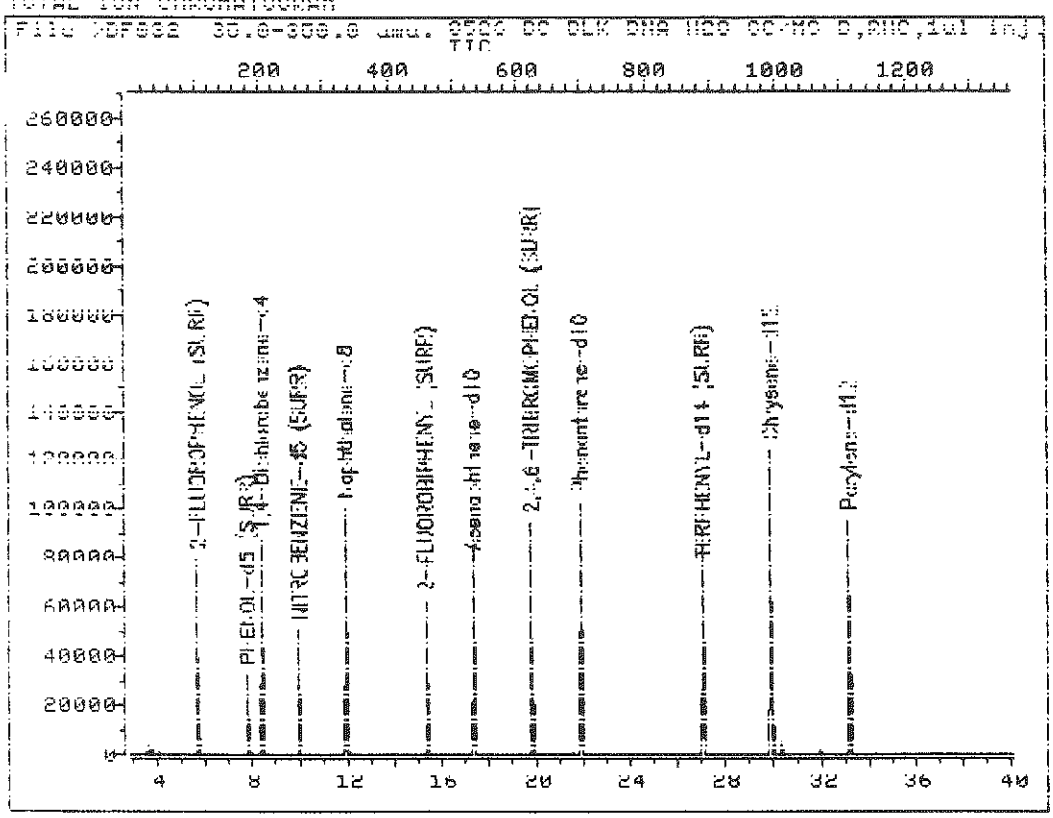
AMERICAN ENVIRONMENTAL NETWORK Inc.
SEMIVOLATILE ORGANIC ANALYSIS - TABULATED REPORT
TCLP Analysis

Lab Data File:	>DF032		
Lab Sample Name:	0526-BC BLK BNA H2O	Date Analyzed:	930607
Matrix:	Water	Date Collected:	N.A.
Dilution Factor:	1.0	Date Received:	N.A.
Method Number:	TCLP	Date Extracted:	930526
Sample Info.: GC/MS D,RHC,1ul inj. BASC-0102			BTL# 1

U = not detected
J = estimated value, below detection limit

Compound	Concentration ug/L of Leachate	Detection Limit	
Pyridine		10	U
1,4-Dichlorobenzene		10	U
2-Methylphenol + 3-MethylphenoL		10	U
4-Methylphenol		10	U
Hexachloroethane		10	U
Nitrobenzene		10	U
Hexachlorobutadiene		10	U
2,4,6-Trichlorophenol		10	U
2,4,5-Trichlorophenol		50	U
2,4-Dinitrotoluene		50	U
Hexachlorobenzene		10	U
Pentachlorophenol		50	U

TOTAL ION CHROMATOGRAM



Data File: >DF032::D1 Quant Output File: ^DF032::OU
Name: 0526-BC BLK BNA H20
Misc: GC/MS D,RHC,1ul inj. BASC-0102 BTL# 1

Id File: IDSD06::IC
Title: HP BNA STANDARDS METHOD 2/88
Last Calibration: 930607 17:43

Operator ID: ROY
Quant Time: 930607 19:40
Injected at: 930607 18:59

QUANT REPORT

O ·ator ID: ROY Quant Rev: 6 Quant Time: 930607 19:40
Output File: ^DF032::OU Injected at: 930607 18:59
Data File: >DF032::D1 Dilution Factor: 1.00000
Name: 0526-BC BLK BNA H2O
Misc: GC/MS D,RHC,1ul inj. BASC-0102 BTL# 1

ID File: IDSD06::IC
Title: HP BNA STANDARDS METHOD 2/88
Last Calibration: 930607 17:43

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	202	31832	40.00	UG/ML	86
16)	2-FLUOROPHENOL (SURR)	112.0	102	43222	64.32	UG/ML	89
17)	PHENOL-d5 (SURR)	99.0	179	38206	36.11	UG/ML	89
18)	*Naphthalene-d8	136.0	331	116136	40.00	UG/ML	96
32)	NITROBENZENE-d5 (SURR)	82.0	260	49069	49.17	UG/ML	95
33)	*Acenaphthene-d10	164.0	529	72492	40.00	UG/ML	97
52)	2-FLUOROBIPHENYL (SURR)	172.0	456	71847	39.51	UG/ML	96
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	621	49708	72.11	UG/ML	100
54)	*Phenanthrene-d10	188.0	697	140850	40.00	UG/ML	93
65)	*Chrysene-d12	240.0	990	161007	40.00	UG/ML	83
73)	TERPHENYL-d14 (SURR)	244.0	886	130912	37.00	UG/ML	100
74)	*Perylene-d12	264.0	1110	171615	40.00	UG/ML	100

* Compound is ISTD

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0526-AB BLK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

trix: SOIL Lab Sample ID: 0526-AB BLK

Sample (wt/vol): 30 G Lab File ID: >DF153

Level: LOW Date Received: N.A.

% Moisture:(not dec) N.A. (dec) N.A. Date Extracted: 05/26/93

Extraction: SONC Date Analyzed: 6/19/93

GPC Cleanup: N pH: 2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(2-Chloroethoxy)methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethylphthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA / CLIENT ID

0526-AB BLK

Lab Name: AMER.ENV.NTWK. Contract: BASC-0102

Lab Code: AENI Case No: CINCIN. SAS No: N.A. SDG No: N.A.

trix: SOIL Lab Sample ID: 0526-AB BLK

Sample (wt/vol): 30 G Lab File ID: >DF153

Level: LOW Date Received: N.A.

% Moisture:(not dec) N.A. (dec) N.A. Date Extracted: 05/26/93

Extraction: SONC Date Analyzed: 6/19/93

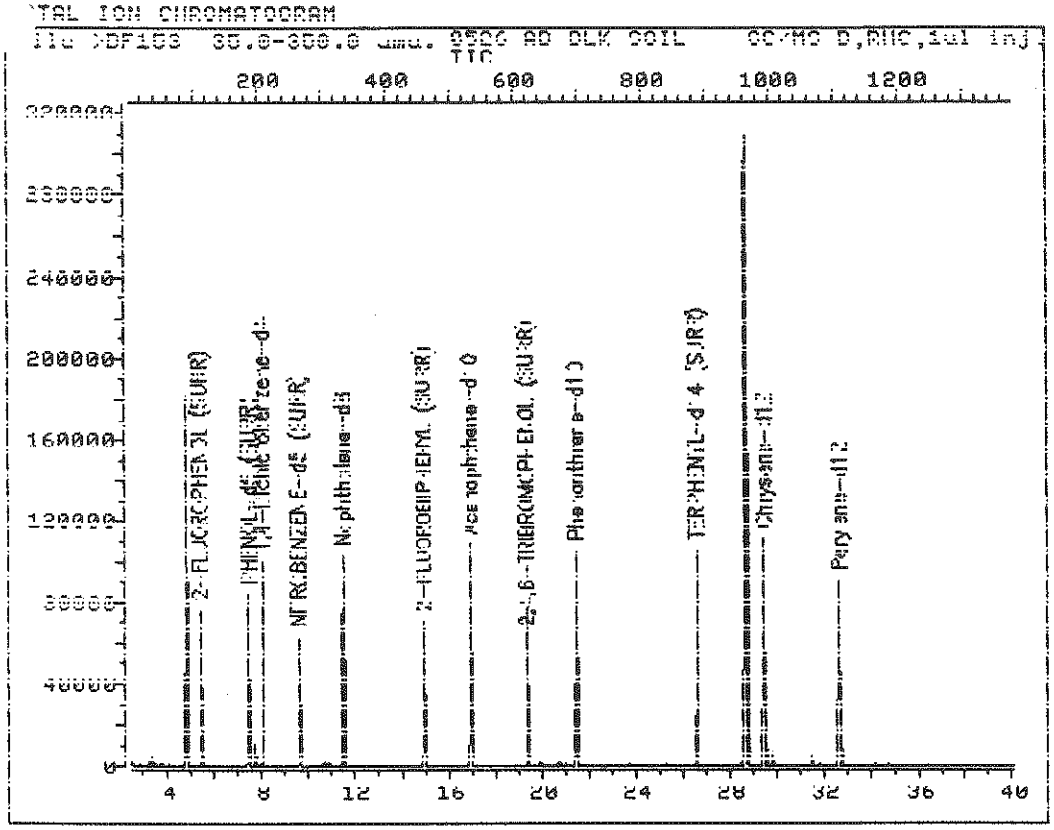
GPC Cleanup: N pH: 2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-butylphthalate	330.	U
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	Bis(2-Ethylhexyl)phthalate	330.	U
117-84-0	Di-n-octylphthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenz(a,h)anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 SW 846

0S
0S



Data File: >DF153::D1 Quant Output File: ^DF153::OU
Name: 0526-AB BLK SOIL
Misc: GC/MS D,RHC,1ul inj. BASC-0102 BTL# 3

Id File: IDSD06::IC
Title: HP BNA STANDARDS METHOD 2/88
Last Calibration: 930619 17:07

Operator ID: ROY
Quant Time: 930619 20:50
Injected at: 930619 20:09

QUANT REPORT

Operator ID: ROY Quant Rev: 6 Quant Time: 930619 20:50
Output File: ^DF153::OU Injected at: 930619 20:09
Data File: >DF153::D1 Dilution Factor: 1.00000
Name: 0526-AB BLK SOIL
Misc: GC/MS D,RHC,1ul inj, BASC-0102 BTL# 3

ID File: IDSD06::IC
Title: HP BNA STANDARDS METHOD 2/88
Last Calibration: 930619 17:07

	Compound	Q ion	Scan#	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	152.0	203	35154	40.00	UG/ML	86
16)	2-FLUOROPHENOL (SURR)	112.0	106	39143	41.91	UG/ML	81
17)	PHENOL-d5 (SURR)	99.0	183	68134	49.74	UG/ML	56
18)	*Naphthalene-d8	136.0	331	135069	40.00	UG/ML	95
32)	NITROBENZENE-d5 (SURR)	82.0	260	46117	30.06	UG/ML	96
33)	*Acenaphthene-d10	164.0	528	75808	40.00	UG/ML	97
52)	2-FLUOROBIPHENYL (SURR)	172.0	455	76749	30.78	UG/ML	97
53)	2,4,6-TRIBROMOPHENOL (SURR)	329.7	618	44278	52.72	UG/ML	100
54)	*Phenanthrene-d10	188.0	695	153308	40.00	UG/ML	94
65)	*Chrysene-d12	240.0	990	159646	40.00	UG/ML	86
73)	TERPHENYL-d14 (SURR)	244.0	884	140575	35.44	UG/ML	100
74)	*Perylene-d12	264.0	1107	164959	40.00	UG/ML	100

* Compound is ISTD

PROJECT NUMBER: BASC-0102

PROJECT TITLE: VW&R Cincin.

CLIENT NAME: BASCOR

DUE DATE: 6/07/93 (fixed)

		REPORT LEVEL						
		I	II	600 III	SW-846 III	NJ Red IV	(Tier II) Full NJ V	CLP VI
Case Narrative					✓			
Sample Results	Form I-A				✓			
Raw Data					✓			
TIC Form					✓			
Raw Data					✓			
Blank Results	Form I-B				✓			
Raw Data					✓			
Surrogate Summary	Form II				✓			
MS/MSD Results	Form III				✓			
Raw Data								
MS/ Duplicate Results	Forms I, III							
Raw Data								
BS/BSD Results (Client Specific)	Form III				✓			
Raw Data								
Method Blank Summary	Form IV				✓			
Instrument Performance Check/Tune	Form V				✓			
Raw Data								
Initial Calibration	Form VI				✓			
Raw Data					✓			
Continuing Calibration	Form VII				✓			
Raw Data					✓			
Internal Standard Summary	Form VIII				✓			
Control Charts								
Summary Package								

GC/MS DATA REVIEW

LEVEL ONE - CHEMIST

Form I:
- a. detection limits_____
- b. dilution factor_____
- c. flags_____
- d. dates & sample IDs_____

Raw Data:
- a. quant reports____(QAREA)_____(QDEL)_____
- b. chromatograms_____
- c. spectra_____(false positives)_____
  (false negatives)_____

Form II:
- a. all samples & QC included_____
- b. reanalyses for outliers_____

Form III:
- a. all MS compounds detected_____
- b. correct # of outliers recorded_____

Form VI:
- a. all associated samples included_____

Form V:
- a. all analyses in 12hrs._____
- b. all samples & QC inluded_____
- c. tune criteria passes_____

Form VI:
- a. calibration date(s) correct_____
- b. % RSDs and avg. RRF pass_____

Form VII:
- a. calibration date correct_____
- b. avg. RRF match Form VI_____
- c. % DIFF and RRF pass (yes)_____(no & why not)_____

Form VIII:
- a. all samples & QC included_____
- b. reanalyses for outliers_____

Notebook page:
- a. extraction & %solids_____
- b. injection log_____

Correct method used:_____

Correct deliverable level:_____

GC/MS DATA REVIEW

LEVEL TWO - SUPERVISOR

Form I:
- a. detection limits_____
- b. dilution factor_____
- c. flags_____
- d. dates & sample IDs_____

Raw Data:
- a. quant reports_____
- b. chromatograms_____
- c. spectra_____

Form II:
- a. all samples & QC included_____
- b. reanalyses for outliers_____

Form III:
- a. all MS compounds detected_____
- b. correct # of outliers recorded_____

Form VI:
- a. all associated samples included_____

Form V:
- a. all analyses in 12hrs._____
- b. all samples & QC inluded_____
- c. tune criteria passes_____

Form VI:
- a. calibration date(s) correct_____
- b. % RSDs and avg. RRF pass_____

Form VII:
- a. calibration date correct_____
- b. avg. RRF match Form VI_____
- c. % DIFF and RRF pass_____

Form VIII:
- a. all samples & QC included_____
- b. reanalyses for outliers_____

Notebook page:
- a. extraction & %solids_____
- b. injection log_____

Case Narrative:
- a. "typos" fixed_____
- b. all dates correct_____
- c. client and AE IDs correct_____
- d. project & client names_____
- e. contract numbers_____
- f. all necessesary info. included_____

Final Package:
- a. all separation pages_____
- b. table of contents_____
- c. title page_____

A.4.3

June 27, 1986

McKesson

Office of the Regional Administrator
Environmental Protection Agency
Region V
Federal Building
230 South Dearborn
Chicago, IL 60604

Re: McKesson Corporation Financial Tests
for Liability Coverage and Closure Cost Care

Dear Sir or Madam:

I am the Chief Financial Officer of McKesson Corporation ("McKesson") located at One Post Street, San Francisco, California 94104. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage and closure as specified in Subpart H of 40 CFR Parts 264 and 265.

The owner or operator identified above is the owner or operator of the following facilities for which liability coverage is being demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265:

*See Exhibit "A" attached hereto and fully incorporated herein by reference.

1. The owner or operator identified above owns or operates the following facilities for which financial assurance for closure or post-closure care is demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure and/or post-closure cost estimates covered by the test are shown for each facility:

*See Exhibit "B" attached hereto and fully incorporated herein by reference.

2. The owner or operator identified above guarantees through the corporate guarantee specified in Subpart H of 40 CFR Parts 264 and 265, the closure and post-closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the closure or post-closure care so guaranteed are shown for each facility.

*See Exhibit "C" attached hereto and fully incorporated herein by reference.

3. In states where EPA is not administering the financial requirements of Subpart H of 40 CFR Parts 264 and 265, this owner or operator is demonstrating financial assurance for the closure or post-closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure and/or post-closure cost estimates covered by such a test are shown for each facility:

*See Exhibit "D" attached hereto and fully incorporated herein by reference.

4. The owner or operator identified above owns or operates the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to EPA or a state through the financial test or any other financial assurance mechanism specified in Subpart H of 40 CFR Parts 264 and 265 or equivalent or substantially equivalent state mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility:

*None.

This owner or operator is required to file a Form 10K with the Securities and Exchange Commission ("SEC") for the latest fiscal year.

The fiscal year of this owner or operator ends on March 31. The figures for the following items marked with an asterisk are derived from this owner or operator's independently

audited, year-end financial statements for the latest completed fiscal year ended March 31, 1986:

ALTERNATIVE II

1.	Sum of current closure and post-closure cost estimates. (total of all cost estimates listed above)	$1,527,706
2.	Amount of annual aggregate liability coverage to be demonstrated.	$2,000,000
3.	Sum of lines 1 and 2.	$3,527,706
4.	Current bond rating of most recent issuance and name of rating service.	Moody's A3
5.	Date of issuance of bond.	February 21, 1986
6.	Date of maturity of bond.	February 15, 1991
*7.	Tangible Net Worth.	$376,000,000
*8.	Total assets in the U.S.	N/A
9.	Is line 7 at least $10 million?	Yes
10.	Is line 7 at least 6 times line 3?	Yes
*11.	Are at least 90% of assets located in the U.S.?	Yes
12.	Is line 8 at least 6 times line 3?	N/A

I hereby certify that the wording of this letter is identical to the wording specified in 40 CFR 264.151(g) as such regulations were constituted on the date shown immediately below.

Alan J. Seelenfreund
Vice President and Chief Financial Officer
McKesson Corporation

June 27, 1986

AJS:sh

EPA REGION V

Facility Address	EPA #
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, OH 45241	#OHD002899847
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHD071107791
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MID010861524
Grand Rapids 7025 Dutton Industrial Drive Dutton, MI 49316	#MID980681696
Bloomington - 2010 N. Eagle Road Normal, IL 61761	#ILD000781633
Chicago Heights - P.O. Box 456 Chicago Heights, IL 60411	#ILD047029228
Milwaukee (West Allis) P.O. Box 14545 Milwaukee, WI 53214 1707 S. 101st Street West Allis, WI	#WID040784936
Minneapolis - 111 22nd Avenue, NE Minneapolis, MN 55418	#MND054497052
Schaumburg - 2055 Hammond Drive Schaumburg, IL 60195	#ILD000819938
633 East 138th Street Dolton, IL 60419	#ILD980613913

The Dolton facility listed above is operated by McKesson Envirosystems Company, a wholly-owned subsidiary of McKesson Corporation.

EXHIBIT "A"

EPA REGION V

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, OH 45241	#OHD002899847	$ 11,521
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHD071107791	$ 12,565
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MID010861524	$ 12,441
Grand Rapids 7025 Dutton Industrial Drive Dutton, MI 49316	#MID980681696	$ 12,414
Bloomington 2010 N. Eagle Road Normal, IL 61761	#ILD000781633	$ 15,828
Chicago Heights - P.O. Box 456 Chicago Heights, IL 60411	#ILD047029228	$ 13,132
Milwaukee (West Allis) P.O. Box 14545 Milwaukee, WI 53214 1707 S. 101st Street West Allis, WI	#WID040784936	$ 10,371
	carried over	$ 88,272

EXHIBIT "B"

EPA REGION V CONTINUED

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
	brought forward	$ 88,272
Schaumburg 2055 Hammond Drive Schaumburg, IL 60195	#ILD000819938	$ $17,017
633 East 138th Street Dolton, IL 60419	#ILD980613913	$ 131,000
111 22nd Avenue, NE Minneapolis, MN 55418	#MND054497052	$ 17,017
		$ 253,306

The Dolton facility listed above is operated by McKesson Envirosystems Company, a wholly-owned subsidiary of McKesson Corporation.

EXHIBIT "B"

EXHIBIT "D"

EPA REGION V

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, OH 45241	#OHD002899847	$ 11,521
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHD071107791	$ 12,565
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MID010861524	$ 12,441
Grand Rapids 7025 Dutton Industrial Drive Dutton, MI 49316	#MID980681696	$ 12,414
Bloomington 2010 N. Eagle Road Normal, IL 61761	#ILD000781633	$ 15,828
Chicago Heights - P.O. Box 456 Chicago Heights, IL 60411	#ILD047029228	$ 13,132
Milwaukee (West Allis) P.O. Box 14545 Milwaukee, WI 53214 1707 S. 101st Street West Allis, WI	#WID040784936	$ 10,371
	carried over	$ 88,272

EPA REGION V CONTINUED

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
	brought forward	$ 88,272
Schaumburg 2055 Hammond Drive Schaumburg, IL 60195	#ILD000819938	$ $17,017
633 East 138th Street Dolton, IL 60419	#ILD980613913	$ 131,000
111 22nd Avenue, NE Minneapolis, MN 55418	#MND054497052	$ 17,017
		$ 253,306

The Dolton facility listed above is operated by McKesson Envirosystems Company, a wholly-owned subsidiary of McKesson Corporation.

ILLINOIS

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
Bloomington 2010 N. Eagle Road Normal, IL 61761	#ILD000781633	$ 15,828
Chicago Heights P.O. Box 456 Chicago Heights, IL 60411	#ILD047029228	$ 13,132
Schaumburg 2055 Hammond Drive Schaumburg, IL 60195	#ILD000819938	$ 11,454
633 East 138th Street Dolton, IL 60419	#ILD980613913	$ 136,000
	TOTAL:	$ 176,414

The Dolton facility listed above is operated by McKesson Envirosystems Company, a wholly-owned subsidiary of McKesson Corporation.

MICHIGAN

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
1. Detroit - 27001 Trolley Industrial drive Taylor, Michigan 48180	#MID010861524	$ 12,441
2. Grand Rapids 7025 Dutton Industrial Drive Dutton, Michigan	#MID980681696	$ 12,414
	TOTAL	$ 24,855

MINNESOTA

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
111 - 22nd Avenue, N.E. Minneapolis, Minnisota 55418	MND0544987052	$ 17,017

OHIO

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
1. 3025 Exon Avenue Evendale Cincinnati, Ohio 45241	#OHD002899847	$ 11,521
2. Cleveland 26601 Richmond Road Bedford Heights, Ohio 44146	#OHD071107791	$ 12,565
		$ 24,086

Deloitte
Haskins-Sells

44 Montgomery Street
San Francisco, California 94104-4602
(415) 393-4300
Telex: 340336

McKesson Corporation: June 27, 1986

We have examined the consolidated financial statements of McKesson Corporation for the year ended March 31, 1986, and have issued our opinion thereon dated May 23, 1986. Our examination was made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. We have not performed any auditing procedures beyond the date of our opinion on the consolidated financial statements; accordingly, this letter is based on our knowledge as of that date and should be read with that understanding.

At your request, we have performed the procedures described below with respect to the accompanying letter dated June 27, 1986 from Mr. Alan J. Seelenfreund, Vice President and Chief Financial Officer, McKesson Corporation. It is understood that this report is solely for filing with the agencies listed in the Appendix to this letter in accordance with requirements of Subpart H of 40 CFR Parts 264 an 265 or similar state requirements, and is not to be used for any other purpose. The procedures that we performed are summarized as follows:

> We recomputed from, or reconciled to, the consolidated financial statements referred to in the first paragraph the information included in items 7, 8 and 11 under the caption Alternative II in the letter referred to above.

Because the procedures referred to in the preceding paragraph were not sufficient to constitute an examination made in accordance with generally accepted auditing standards, we do not express an opinion on any of the information or amounts listed under the caption Alternative II in the aforementioned letter. In performing the procedures referred to above, however, no matters came to our attention that caused us to believe that the information or amounts included in items 7, 8 and 11 should be adjusted.

Yours truly,

Deloitte Haskins & Sells

APPENDIX

Agencies receiving filings dated June 27, 1986 from Mr. Alan J. Seelenfreund, Vice President and Chief Financial Officer of McKesson Corporation, in accordance with Subpart H of 40 CFR Parts 264 and 265 or similar state requirements:

Environmental Protection Agency, Region II
Environmental Protection Agency, Region V
Environmental Protection Agency, Region VII
Arkansas Department of Pollution Control and Ecology
California Department of Health Sciences, Toxic Substances Control Division
Florida Department of Environmental Regulation
Georgia Department of Natural Resources, Environmental Protection Division
Illinois Environmental Protection Agency
Kansas Department of Health and Environment, Bureau of Waste Management
Michigan Department of National Resources, Hazardous Waste Division
Minnesota Pollution Control Agency, Solid and Hazardous Waste Division
Nebraska Department of Environmental Control, Hazardous Waste Section
New Mexico Environmental Improvement Division
North Carolina Department of Human Resources
Ohio Environmental Protection Agency
Oregon Department of Environmental Quality, Hazardous and Solid Waste Division
South Carolina Department of Health and Environmental Control, Bureau of Solid and Hazardous Waste Management
Tennessee Department of Health and Environment
Texas Water Commission, Hazardous Waste and Solid Waste Division

RESPONSIBILITY FOR FINANCIAL STATEMENTS

McKesson Corporation is responsible for the preparation and accuracy of the financial statements and other information included in this report. The financial statements have been prepared in conformity with generally accepted accounting principles using, where appropriate, management's best estimates and judgments.

In meeting its responsibility for the reliability of the financial statements, the company depends on its system of internal accounting control. The system is designed to provide reasonable assurance that assets are safeguarded and that transactions are executed as authorized and are properly recorded. The system is augmented by written policies and procedures and an internal audit department.

Deloitte Haskins & Sells, the company's independent auditors, have examined the financial statements in accordance with generally accepted auditing standards, and their opinion appears to the right.

The Board of Directors reviews the financial statements and reporting practices of the company through its Audit Committee, which is composed entirely of directors who are not officers or employees of the company. The committee meets regularly with the independent auditors, internal auditors and management to discuss audit scope and results and to consider internal control and financial reporting matters. Both the independent and internal auditors have unrestricted access to the Audit Committee.

Neil E. Harlan
Chairman and
Chief Executive Officer

Alan Seelenfreund
Vice President and
Chief Financial Officer

Opinion of Independent Auditors

Deloitte Haskins+Sells

The Stockholders and Board of Directors
of McKesson Corporation:

We have examined the consolidated balance sheets of McKesson Corporation and subsidiaries as of March 31, 1986, 1985 and 1984 and the related statements of consolidated income, changes in consolidated stockholders' equity and changes in consolidated financial position for the years then ended. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, such consolidated financial statements present fairly the financial position of the companies at March 31, 1986, 1985 and 1984 and the results of their operations and the changes in their financial position for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

Deloitte Haskins & Sells

San Francisco, California 94104
May 23, 1986

3. In states where EPA is not administering the financial requirements of Subpart H of 40 CFR Parts 264 and 265, Foremost is demonstrating financial assurance for the closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure cost estimates covered by such a test are shown for each facility:

*None.

4. Foremost owns or operates the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to EPA or a state through the financial test or any other financial assurance mechanism specified in Subpart H or 40 CFR Parts 264 and 265 or equivalent or substantially equivalent state mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility:

*None.

Foremost is required to file a Form 10K with the Securities and Exchange Commission ("SEC") for the latest fiscal year.

The fiscal year of Foremost ends on March 31. The figures for the following items marked with an asterisk are derived from Foremost's independently audited, year-end financial statements for the latest completed fiscal year ended March 31, 1983:

ALTERNATIVE II

1.	Sum of current closure cost estimates. (EPA Regions I-X)	$4,635,930
2.	Amount of annual aggregate liability coverage to be demonstrated.	$2,000,000
3.	Sum of lines 1 and 2.	$6,635,930
4.	Current bond rating of most recent issuance and name of rating service:	Moody's - A
5.	Date of issuance of bond.	April 1, 1982

EPA REGION V

Facility Address	EPA #	
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, Ohio 45241	#OHDOO2899847	
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHDO71107791	
Columbus - 1795 E. Moler Road Columbus, OH 43207	#OHDO39991690	NOT TSD
Dayton - 2228 W. Dorothy Lane Dayton, Ohio 45439	#OHDOOO780338	NOT TSD
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MIDO10861524	
Grand Rapids - 4975 Starr Street S.E. Grand Rapids, MI 49506	#MIDO53670063	
Appleton - P.O. Box 23 Appleton, WI 54911 1836 W. Rogers Avenue	#WIDO30177620	
Bloomington - 2010 N. Eagle Road Normal, IL 61761	#ILDOO0781633	
Chicago - 600 Hunter Drive Oak Brook, IL 60521	#ILDO70687165	
Chicago Heights - P.O. Box 456 Chicago Heights, IL 60411	#ILDO47029228	

EXHIBIT "A"

6.	Date of maturity of bond.	April 1, 2012
*7.	Tangible Net Worth.	$417,283,000
8.	Total assets in the U.S.	Not Applicable
9.	Is line 7 at least $10 Million?	Yes
10.	Is line 7 at least 6 times line 3?	Yes
11.	Are at least 90% of assets located in the U.S.?	Yes

I hereby certify that the wording of this letter is identical to the wording specified in 40 CFR 264.157(g) as such regulations were constituted on the date shown immediately below.

Neil E. Harlan
Chairman of the Board
Foremost-McKesson, Inc.

NEH/smc

June 27, 1983

McKesson Corp.
One Post Street, San Fra[illegible]o CA 94104 Tel 415 983-8300

McKesson

June 29, 1984

Office of the Regional Administrator
Environmental Protection Agency
Region V
Federal Building
230 South Dearborn
Chicago, Illinois 60604

Re: McKesson Corporation Financial Tests
for Liability Coverage and Closure Cost Care

Dear Sir or Madam:

I am the Chief Financial Officer of McKesson Corporation ("McKesson") located at One Post Street, San Francisco, California 94104. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage and closure care as specified in Subpart H of 40 CFR Parts 264 and 265.

McKesson is the owner or operator of the following facilities for which liability coverage is being demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265:

*See Exhibit "A" attached hereto and fully incorporated herein by reference.

1. McKesson owns or operates the following facilities for which financial assurance for closure care is demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure cost estimates covered by the test are shown for each facility:

*See Exhibit "B" attached hereto and fully incorporated herein by reference.

2. McKesson guarantees through the corporate guarantee specified in Subpart H of 40 CFR Parts 264 and 265, the closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the closure care so guaranteed are shown for each facility.

*See Exhibit "C" attached hereto and fully incorporated herein by reference.

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Since 1833

3. In states where EPA is not administering the financial requirements of Subpart H of 40 CFR Parts 264 and 265, McKesson is demonstrating financial assurance for the closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure cost estimates covered by such a test are shown for each facility:

*None.

4. McKesson owns or operates the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to EPA or a state through the financial test or any other financial assurance mechanism specified in Subpart H or 40 CFR Parts 264 and 265 or equivalent or substantially equivalent state mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility:

*None.

McKesson is required to file a Form 10K with the Securities and Exchange Commission ("SEC") for the latest fiscal year.

The fiscal year of McKesson ends on March 31. The figures for the following items marked with an asterisk are derived from McKesson's independently audited, year-end financial statements for the latest completed fiscal year ended March 31, 1984:

ALTERNATIVE II

1.	Sum of current closure cost estimates. (EPA Regions I-X)	$1,646,047
2.	Amount of annual aggregate liability coverage to be demonstrated.	$2,000,000
3.	Sum of lines 1 and 2.	$3,646,047
4.	Current bond rating of most recent issuance and name of rating service:	Moody's - A
5.	Date of issuance of bond.	April 1, 1982

6.	Date of maturity of bond.	April 1, 2012
*7.	Tangible Net Worth.	$468,648,000
8.	Total assets in the U.S.	Not Applicable
9.	Is line 7 at least $10 Million?	Yes
10.	Is line 7 at least 6 times line 3?	Yes
11.	Are at least 90% of assets located in the U.S.?	Yes

I hereby certify that the wording of this letter is identical to the wording specified in 40 CFR 264.157(g) as such regulations were constituted on the date shown immediately below.

Alan J. Seelenfreund
Vice President and Chief Financial Officer
McKesson Corporation

AJS/smc

June 29, 1984

EPA REGION V

Facility Address	EPA #
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, OH 45241	#OHD002899847
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHD071107791
Columbus - 1795 E. Moler Road Columbus, OH 43207	#OHD039991690
Dayton - 2228 W. Dorothy Lane Dayton, OH 45439	#OHD000780338
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MID010861524
Grand Rapids 7025 Dutton Industrial Drive Dutton, MI 49316	#MID980681696
Appleton - P.O. Box 23 1836 W. Rogers Avenue Appleton, WI 54911	#WID030177620
Bloomington - 2010 N. Eagle Road Normal, IL 61761	#ILD000781633
Chicago Heights - P.O. Box 456 Chicago Heights, IL 60411	#ILD047029228
Dolton (Repack Center) 633 138th Street P.O. Box 304 Dolton, IL 60419	#ILD000781641

Not listed under closure

EXHIBIT "A"

EPA REGION V CONTINUED

Facility Address	EPA #
Milwaukee (West Allis) P.O. Box 14545 Milwaukee, WI 53214 1707 S. 101st Street West Allis, WI	#WID040784936
Minneapolis - 111 22nd Avenue, NE Minneapolis, MN 55418	#MND054497052
Schaumburg - 2055 Hammond Drive Schaumburg, IL 60195	#ILD000819938
McKesson Envirosystems Company Recycling Facility 633 East 138th Street Dolton, IL	#ILD980613913

EXHIBIT "A"

EPA REGION V

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, OH 45241	#OHD002899847	$ 10,747
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHD071107791	$ 11,720
Columbus - 1795 E. Moler Road Columbus, OH 43207	#OHD039991690	$ 10,916
Dayton - 2228 W. Dorothy Lane Dayton, OH 45439	#OHD000780338	$ 10,675
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MID010861524	$ 11,648
Grand Rapids 7025 Dutton Industrial Drive Dutton, MI 49316	#MID980681696	$ 11,580
Appleton - P.O. Box 23 1836 W. Rogers Avenue Appleton, WI 54911	#WID030177620	$ 10,512
Bloomington 2010 N. Eagle Road Normal, IL 61761	#ILD000781633	$ 14,229
Chicago Heights - P.O. Box 456 Chicago Heights, IL 60411	#ILD047029228	$ 12,249

EXHIBIT "B"

EPA REGION V CONTINUED

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
Milwaukee (West Allis) P.O. Box 14545 Milwaukee, WI 53214 1707 S. 101st Street West Allis, WI	#WID040784936	$ 9,674
Minneapolis 111 22nd Avenue, NE Minneapolis, MN 55418	#MND054497052	$ 15,873
Schaumburg 2055 Hammond Drive Schaumburg, IL 60195	#ILD000819938	$ 10,684
	TOTAL	$ 140,507

EXHIBIT "B"

EPA REGION V

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
633 East 138th Street Dolton, IL	#ILD980613913	$ 114,600

The above facility is operated by McKesson Envirosystems Company, a California corporation and wholly-owned subsidiary of McKesson Corporation.

EXHIBIT "C"

McKesson Corp. Law Department
One Post Street, San Fr[illegible]co CA 94104 Tel 415 983 8319

OHD 002899847

Ivan D. Meyerson Assistant General Counsel

2 Michigan facil +
~~MND 054497052~~
— Part B

McKesson

June 29, 1984

Office of the Regional Administrator
Environmental Protection Agency
Region V
Federal Building
230 South Dearborn
Chicago, IL 60604

RECEIVED
JUL 4 1984
U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

RECEIVED
JUL 05 1984
WASTE MANAGEMENT
BRANCH

Re: Federal Financial Requirements
Hazardous Waste TSD Facilities

Dear Sir/Madam:

On behalf of McKesson Corporation and its wholly-owned subsidiaries (the "McKesson Group") we hereby submit the enclosed documents to meet the financial test and to demonstrate the financial responsibility of the McKesson Group under the standards of the Environmental Protection Agency applicable to owners and operators of hazardous waste treatment, storage and disposal facilities.

1. The letter of Alan J. Seelenfreund, Vice President and Chief Financial Officer of McKesson Corporation ("McKesson");

2. The Annual Report of McKesson Corporation for the fiscal year ended March 31, 1984, which report contains the independent certified public accountants' report on the financial statements of the McKesson Group; and

3. The special report of Deloitte Haskins & Sells to the effect specified in the regulations.

The facilities owned by the McKesson Group are either operated by McKesson Chemical Company (a division of McKesson) or McKesson Envirosystems Company (a wholly-owned subsidiary of McKesson). With respect to the facilities operated by McKesson Chemical Company, we are submitting this material to satisfy both the requirements for liability coverage, and closure care. Note further that the figure indicating the sum of closure cost estimates is an aggregate of the estimates for the facilities in all EPA regions -- although only the specific facilities in your region are listed in Mr. Seelenfreund's letter.

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4. With respect to the facility in your region operated by McKesson Envirosystems Company (set forth on Exhibit C to Mr. Seelenfreund's letter) you will also find enclosed a copy of the environmental impairment liability policy which we have in force for that facility.

I trust that you will find all of the enclosed material to be in order; however, should you have questions or require further information or details, kindly address all inquiries on this matter to me. Thank you very much.

Very truly yours,

Ivan D. Meyerson
Associate General Counsel

IDM/smc

Encl.

Deloitte
Haskins+Sells

44 Montgomery Street
San Francisco, California 94104
(415) 393-4300
Telex 340336

McKesson Corporation: June 29, 1984

We have examined the consolidated financial statements of McKesson Corporation for the year ended March 31, 1984, and have issued our report thereon dated May 24, 1984. Our examination was made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. We have not performed any auditing procedures beyond the date of our opinion on the consolidated financial statements; accordingly, this letter is based on our knowledge as of that date and should be read with that understanding.

At your request, we have performed the procedures described below with respect to the accompanying letter from Mr. Alan J. Seelenfreund, Vice President and Chief Financial Officer, McKesson Corporation to the Regional Administrator - Environmental Protection Agency dated June 29, 1984. It is understood that this report is solely for filing with the Environmental Protection Agency in accordance with requirements of the Resource Conservation and Recovery Act, and is not to be used for any other purpose. The procedures that we performed are summarized as follows:

> We recomputed from, or reconciled to, the consolidated financial statements referred to in the first paragraph the information included in items 7 and 11 under the caption Alternative II in the letter referred to above.

Because the procedures referred to in the preceding paragraph were not sufficient to constitute an examination made in accordance with generally accepted auditing standards, we do not express an opinion on any of the information or amounts listed under the caption Alternative II in the aforementioned letter. In performing the procedures referred to above, however, no matters came to our attention that caused us to believe that the information or amounts included in items 7 and 11 should be adjusted.

Yours truly,

Deloitte Haskins & Sells

Law Department

Foremost-McKesson, Inc.
One Post Street
San Francisco, CA 94104
415 983 8319

Ivan D. Meyerson
Assistant General Counsel

Serving the Nation
Since 1833

OHD 002 899847
GOS - DISCARD
1982 ANNUAL REPORT

June 27, 1983

FOREMOST
McKESSON

Office of the Regional Administrator
Environmental Protection Agency
Region V
Federal Building
230 South Dearborn
Chicago, Illinois 60604

RECEIVED
WASTE MANAGEMENT
BRANCH

Re: Federal Financial Requirements
Hazardous Waste TSD Facilities

Dear Sir/Madam:

On behalf of Foremost-McKesson, Inc. and its wholly-owned subsidiaries (the "Foremost Group") we hereby submit the enclosed documents to meet the financial test and to demonstrate the financial responsibility of the Foremost Group under the standards of the Environmental Protection Agency applicable to owners and operators of hazardous waste treatment, storage and disposal facilities.

1. The letter of Neil E. Harlan, Chairman of the Board and Chief Financial Officer of Foremost-McKesson, Inc. ("Foremost");

2. The Annual Report of Foremost-McKesson, Inc. for the fiscal year ended March 31, 1983, which report contains the independent certified public accountants' report on the financial statements of the Foremost Group; and

3. The special report of Deloitte Haskins & Sells to the effect specified in the regulations.

The facilities owned by the Foremost Group are either operated by McKesson Chemical Company (a division of Foremost) or McKesson Envirosystems Company (a wholly-owned subsidiary of Foremost). Please note that we are submitting this material to satisfy both the requirements for liability coverage, and closure care. Note further that the figure indicating the sum of closure cost estimates is an aggregate of the estimates for the facilities in all EPA regions -- although only the specific facilities in your region are listed in Mr. Harlan's letter.

Law Department
Foremost-McKesson, Inc.

I trust that you will find all of the enclosed material to be in order; however, should you have questions or require further information or details, kindly address all inquiries on this matter to me. Thank you very much.

Very truly yours,

Ivan D. Meyerson
Assistant General Counsel

IDM/smc

Encl.

Foremost-McKesson, Inc.
One Post Street
San Francisco, CA 94104
415 983 8300

June 27, 1983

Office of the Regional Administrator
Environmental Protection Agency
Region V
Federal Building
230 South Dearborn
Chicago, Illinois 60604

FOREMOST McKESSON

Re: Foremost-McKesson, Inc. Financial Tests
for Liability Coverage and Closure Cost Care

Dear Sir or Madam:

I am the Chief Financial Officer of Foremost-McKesson, Inc. ("Foremost") located at One Post Street, San Francisco, California 94104. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage and closure care as specified in Subpart H of 40 CFR Parts 264 and 265.

Foremost is the owner or operator of the following facilities for which liability coverage is being demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265:

*See Exhibit "A" attached hereto and fully incorporated herein by reference.

1. Foremost owns or operates the following facilities for which financial assurance for closure care is demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure cost estimates covered by the test are shown for each facility:

*See Exhibit "B" attached hereto and fully incorporated herein by reference.

2. Foremost guarantees through the corporate guarantee specified in Subpart H of 40 CFR Parts 264 and 265, the closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the closure care so guaranteed are shown for each facility.

*See Exhibit "C" attached hereto and fully incorporated herein by reference.

Law Department
Foremost-McKesson, Inc.
One Post Street
San Francisco, CA 94104
415 983 8319

Ivan D. Meyerson
Assistant General Counsel

July 5, 1982

Office of the Regional Administrator
Environmental Protection Agency
Region V
Federal Building
230 South Dearborn
Chicago, Illinois 60604

FOREMOST
McKESSON

Dear Sir/Madam:

On behalf of Foremost-McKesson, Inc. and its wholly-owned subsidiaries (the "Foremost Group"), we hereby submit the enclosed documents to meet the financial test and to demonstrate the financial responsibility of the Foremost Group under the standards of the Environmental Protection Agency applicable to owners and operators of hazardous waste treatment, storage, and disposal facilities:

1. The letter of Neil E. Harlan, Chairman of the Board and Chief Financial Officer of Foremost-McKesson, Inc.;

2. The Annual Report of Foremost-McKesson, Inc. for the fiscal year ended March 31, 1982, which Report contains the independent certified public accountant's report on the financial statements of the Foremost Group; and

3. The special report of DeLoitte, Haskins & Sells to the effect specified in the regulations.

The facilities owned by the Foremost Group are either operated by McKesson Chemical Company or McKesson Envirosystems Company. Please note that we are submitting this material to satisfy both the requirements for liability coverage, and closure/postclosure care. Note further that the figure used for the sum of closure cost estimates is an aggregate of the estimates for the facilities in all EPA regions -- although only the specific facilities in your region are listed in Mr. Harlan's letter.

I trust you will find all of the enclosed material in order; however, should you have questions or require further information or details, please address all inquiries on this matter to me. Thank you very much.

Very truly yours,

Ivan D. Meyerson
Assistant General Counsel

IDM/smc
Encl.

Foremost-McKesson, Inc.
One Post Street
San Francisco, CA 94104
415 983 8300

July 5, 1982

Office of the Regional Administrator
Environmental Protection Agency
Region V
Federal Building
230 South Dearborn
Chicago, Illinois 60604

FOREMOST McKESSON

Re: Foremost-McKesson, Inc. Financial Tests
for Liability, Closure & Post-Closure Care

Dear Sir or Madam:

I am the Chief Financial Officer of Foremost-McKesson, Inc. ("Foremost") located at One Post Street, San Francisco, California 94104. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage and closure and/or post-closure care as specified in Subpart H of 40 CFR Parts 264 and 265.

Foremost is the owner or operator of the following facilities for which liability coverage is being demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265:

*See Exhibit "A" attached hereto and fully incorporated herein by reference.

1. Foremost owns or operates the following facilities for which financial assurance for closure or post-closure care is demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure and/or post-closure cost estimates covered by the test are shown for each facility:

*See Exhibit "B" attached hereto and fully incorporated herein by reference.

2. Foremost guarantees through the corporate guarantee specified in Subpart H of 40 CFR Parts 264 and 265, the closure and post-closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the closure or post-closure care so guaranteed are shown for each facility.

*See Exhibit "C" attached hereto and fully incorporated herein by reference.

3. In states where EPA is not administering the financial requirements of Subpart H of 40 CFR Parts 264 and 265, Foremost is demonstrating financial assurance for the closure or post-closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure and/or post closure cost estimates covered by such a test are shown for each facility:

*None.

4. Foremost owns or operates the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to EPA or a state through the financial test or any other financial assurance mechanism specified in Subpart H or 40 CFR Parts 264 and 265 or equivalent or substantially equivalent state mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility:

*None.

Foremost is required to file a Form 10K with the Securities and Exchange Commission ("SEC") for the latest fiscal year.

The fiscal year of Foremost ends on March 31. The figures for the following items marked with an asterisk are derived from Foremost's independently audited, year-end financial statements for the latest completed fiscal year ended March 31, 1982:

ALTERNATIVE II

1.	Sum of current closure and post-closure cost estimates. (EPA Regions I-X)	$1,057,476
2.	Amount of annual aggregate liability coverage to be demonstrated.	$8,000,000
3.	Sum of lines 1 and 2.	$9,057,476
4.	Current bond rating of most recent issuance and name of rating service:	Moody's - A
5.	Date of issuance of bond.	April 1, 1982

6.	Date of maturity of bond.	April 1, 2012
*7.	Tangible Net Worth.	$390,227,000
8.	Total assets in the U.S.	Not Applicable
9.	Is line 7 at least $10 Million?	Yes
10.	Is line 7 at least 6 times line 3?	Yes
*11.	Are at least 90% of assets located in the U.S.?	Yes

I hereby certify that the wording of this letter is identical to the wording specified in 40 CFR 264.157(g) as such regulations were constituted on the date shown immediately below.

Neil E. Harlan
Chairman of the Board
Foremost-McKesson, Inc.

July 5, 1982

EPA REGION V

Facility Address	EPA #
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, Ohio 45241	#OHDOO2899847
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHDO71107791
Columbus - 1795 E. Moler Road Columbus, OH 43207	#OHDO39991690
Dayton - 2228 W. Dorothy Lane Dayton, Ohio 45439	#OHDOOO780338
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MIDO10861524
Grand Rapids - 4975 Starr Street S.E. Grand Rapids, MI 49506	#MIDO53670063
Appleton - P.O. Box 23 Appleton, WI 54911 1836 W. Rogers Avenue	#WIDO30177620
Bloomington - 2010 N. Eagle Road Normal, IL 61761	#ILDOO0781633
Chicago - 600 Hunter Drive Oak Brook, IL 60521	#ILD070687165
Chicago Heights - P.O. Box 456 Chicago Heights, IL 60411	#ILDO47029228

EXHIBIT "A"

EPA REGION V CONTINUED:

Dolton (Repack Center) 633 138th Street P.O. Box 304 Dolton, IL 60419	#ILD000781641
Milwaukee (West Allis) P.O. Box 14545 Milwaukee, WI 53214 1707 S. 101st Street West Allis, WI	#WIDO40784936
Minneapolis - 111 22nd Avenue, N.E. Minneapolis, MN 55418	#MNDO54497052
Schaumburg - 2055 Hammond Drive Schaumburg, IL 60195	#ILDO00819938
McKesson Envirosystems Company Recycling Facility 633 East 138th Street Dolton, Illinois	#ILD005097670

EXHIBIT "A"

EPA REGION V

Facility Address	EPA #	Closure/Post-Closure Cost Estimates
Cincinnati - 3025 Exon Avenue Evendale, Cincinnati, Ohio 45241	#OHDOO2899847	$ 308
Cleveland - 26601 Richmond Road Bedford Heights, OH 44146	#OHDO71107791	$ 937
Columbus - 1795 E. Moler Road Columbus, OH 43207	Not in Fil. #OHDO39991690	$ 523
Dayton - 2228 W. Dorothy Lane Dayton, Ohio 45439	#OHDOOO780338	$ 689
Detroit - 27001 Trolley Industrial Drive Taylor, MI 48180	#MIDO10861524	$ 1,094
Grand Rapids - 4975 Starr Street S.E. Grand Rapids, MI 49506	#MIDO53670063	$ 1,587
Appleton - P.O. Box 23 Appleton, WI 54911 1836 W. Rogers Avenue	#WIDO30177620	$ 5,952
Bloomington - 2010 N. Eagle Road Normal, IL 61761	#ILDOOO781633	$ 5,460
Chicago - 600 Hunter Drive Oak Brook, IL 60521	#ILD070687165	Central Regional Office
Chicago Heights - P.O. Box 456 icago Heights, IL 60411	#ILDO47029228	$ 6,240

EXHIBIT "B"

EPA REGION V CONTINUED:

Dolton (Repack Center) 633 138th Street P.O. Box 304 Dolton, IL 60419	#ILD000781641	
Milwaukee (West Allis) P.O. Box 14545 Milwaukee, WI 53214 1707 S. 101st Street West Allis, WI	#WID040784936	$ 5,876
Minneapolis - 111 22nd Avenue, N.E. Minneapolis, MN 55418	#MND054497052	$10,400
Schaumburg - 2055 Hammond Drive Schaumburg, IL 60195	#ILD000819938	$ 7,800
	TOTAL:	$46,866

EXHIBIT "B"

EPA REGION V

Facility Address	EPA #	Closure/Post-Closure Cost Estimate
633 East 138th Street Dolton, Illinois	ILDOO5097670	$122,000

The above facility is owned and operated by McKesson Envirosystems Company, a California corporation and wholly-owned subsidiary of Foremost-McKesson, Inc.

EXHIBIT "C"

Deloitte
Haskins+Sells

44 Montgomery Street
San Francisco, California 94104
(415) 393-4300
Telex 340336

Foremost-McKesson, Inc.:

We have examined the consolidated financial statements of Foremost-McKesson, Inc. for the year ended March 31, 1982, and have issued our report thereon dated May 21, 1982. Our examination was made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. We have not performed any auditing procedures beyond the date of our opinion on the consolidated financial statements; accordingly, this letter is based on our knowledge as of that date and should be read with that understanding.

At your request, we have performed the procedures described below with respect to the accompanying letter from Mr. Neil E. Harlan, Chairman of the Board, Foremost-McKesson, Inc. to the Regional Administrator - Environmental Protection Agency, Region V dated July 5, 1982. It is understood that this report is solely for filing with the Environmental Protection Agency in accordance with requirements of the Resource Conservation and Recovery Act, and is not to be used for any other purpose. The procedures that we performed are summarized as follows:

> We recomputed from, or reconciled to, the consolidated financial statements referred to in the first paragraph the information included in items 7 and 11 under the caption Alternative II in the letter referred to above.

Because the procedures referred to in the preceding paragraph were not sufficient to constitute an examination made in accordance with generally accepted auditing standards, we do not express an opinion on any of the information or amounts listed under the caption Alternative II in the aforementioned letter. In performing the procedures referred to above, however, no matters came to our attention that caused us to believe that the information or amounts included in items 7 and 11 should be adjusted.

Yours truly,

Deloitte Haskins + Sells

July 5, 1982