

M3650024

Date: 4/25/05

Spike Witness / Lot Approval:

4/25/05 DCS

Analyst: DK

Prep Method: SW846 3050 A CLP

Batch Temp:

92°C

Digest: Initial // Redigest of:

Report Type: Routine // ASP // Pkg5

Submission / Order #	Initial Wgt. (g)	Final Vol (ml)	Initial Color / Texture	Final Color / Clarity	Metals	Spike Vol (ml)
1	PBS	1.00	C-CUR	C-CUR	TAL	
2	LCSS	1.00	B-F	Y-CUR		
3 R-25824	807873	1.02	B-M		2AS 2Se 2Tl Ag Ba Cd Cr Co Ni Pb Sb Zn	
4	873 D	1.00				1.0ml 3K A.A. 0.1ml Se
5	873 S	1.02				
6	874	1.05				
7	875	1.02				
8	876	1.05				
9	877	1.00				
10 R-25779	806851	1.02			TAL	
11	852	1.01				
12	853	1.01				
13	854	1.01				
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Color / Clarity Key:

Color: C = Colorless ; Y = Yellow ; B = Brown

BL = Black ; G = Grey ; W = White

Clarity: CDY = Cloudy ; CLR = Clear ; OP = Opaque

Texture: F = Fine ; M = Medium ; CS = Coarse ; NAQ = Non Aqueous

Spiking Standards / Reagent Lot #:

Spike A,B: M1780059H, I Spike #4: —

TCLP Spk: — TCLP Ba: —

Se Std: M1780058T Sn Std: —

HNO3: M1780060F HCL: M1780059Y

H2O2: M1780060A LCSS: M1780058R

Comments:

CPI-A

(R-25824 = ASFB)

RUSH

DUE

4/27

(R-25779 = Routine = 2 week FAX)

Columbia Analytical Services – Rochester, NY

Analyst: DCB

Date Prepped: 7/26/05

Date Analyzed: 4/27/05

e it: 1355

Client / Submission #	Sample Number	Initial Wgt/Volume (g/ml)	Final Volume (ml)	Client / Submission #	Sample Number	Initial Wgt/Volume (g/ml)	Final Volume (ml)
	PBS	0.60	100	31	R-25825	807840	0.62
	LCSS	0.60		32		807841	0.64
R-25824	807873	0.62		33	R-25785	806979	0.65
	874	0.61		34		880	0.61
	875	0.66		35		881	0.65
	876	0.62		36	R-25770	806611	0.62
	877	0.62		37		612	0.64
-25764	806314	0.67		38		613	0.64
	315	0.64		39		615	0.64
	316	0.64		40		617	0.63
	317	0.62		41		618	0.65
	318	0.63		42		619	0.63
	319	0.64		43		620	0.64
	320	0.65		44		623	0.66
	320 Dup	0.65		45		623 Dup	0.64
	320 SPK	0.65		46		623 SPK	0.66
	321	0.64		47			
	322	0.62		48			
	323	0.64		49			
R-25779	806851	0.60				ICB	100ml DI Water
	852	0.61				Std 0	100ml DI Water
	853	0.62				Std 0.2*	0.20ml of 0.1ppm
	854	0.61				Std 0.5*	0.50ml of 0.1ppm
	265	0.60				Std 1.0*	1.00ml of 0.1ppm
	LCSS	0.61				Std 2.0*	2.00ml of 0.1ppm
R-25825	807826	0.61				Std 5.0*	5.00ml of 0.1ppm
	827	0.60				Std 10.0*	10.0ml of 0.1ppm
	828	0.61				ICV/CCV**	3.00ml of 0.1ppm
	829	0.67				LCSW/MS**	1.00ml of 0.1ppm
	830	0.61				CRDL*	0.20ml of 0.1ppm

of Reagents Used:

NO3: m1780057 H2SO4: — HCL: m1780059X K2S2O8: — KMnO4: m1780054F

n($\therefore$ m1780058W NaCl: m1780055F NH₂OH-HCL: m1780059A LCSS CAS Lot#: m1780060P

LCSS ERA Lot#: 246

Source Standard: (Vendor/Lot #) M178005/K **ICV Standard: (Vendor/Lot #) M178005/W

*10ppm stock Lot#: M357012A **10ppm stock Lot#: M3570152A

* 1ppm working std Lot#: M3570112C) ** (0.1ppm working std Lot#: M3570152C)

Comments/Problems: Analyze 806981

Lab Name: M3530099A M3530099B

1150

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RADIAL OPTIMA #1 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
PQL Std 1	BE	MI780058E	5	0.100	100	0.0050	2% HNO3	A	MI780058V	MI780058X	4/15/05	M118
	CO		50		0.0500	5% HCl	SD 4/18/05	B	MI780060F	MI780058X	4/25/05	M117
	V		50		0.0500		SD 4/15/05	C	MI780060F	MI780058X	4/25/05	M117
	SB		60		0.0600			D				
	AG		10		0.0100			E				
	ZN		20		0.0200			F				
	FE		100		0.100			G				
	NI		40		0.0400			H				
	CR		10		0.0100			I				
PQL Std 2	B	MI780058C	200	0.100	0.200			J				
	MO		25		0.0250			K				
	SN		500		0.500			L				
	TI		50		0.0500			M				
Single std	SR	MI780060C	1000	0.010	0.100			N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				
								V				
								W				
								X				
								Y				
								Z				
								AA				
								BB				
								CC				
								DD				
								EE				
								FF				

RADIAL OPTIMA #1 CALIBRATION STANDARD #2 (Standard is prepared weekly or as necessary)

CAL STD 1	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
	CA	M1780058X	5000	0.100	1000	0.500	2% HNO3	SD 4/25/05	A	M1780060F	M1780059K	4/5/05	M17
	K		5000			Below	5% HCl		B				
	MG		5000			0.500			C				
	NA		5000			0.500			D				
Single std	AL	M1780059K	10000	0.01		0.100			E				
	BA	M34300780B	100	0.20		0.020			F				
	CU	M1780049V	1000	0.02		0.020			G				
	MN	M1780053G	1000	0.01		0.010			H				
	K	M1780049W	10000	0.15		2.00			I				
	CD	M1780049T	1000	0.01		0.010			J				
	PB	M1780054V	1000	0.05		0.050			K				
	AS	M1780060N	1000	0.20		0.200			L				
	SE	M1780052D	1000	0.20		0.200			M				
									N				
									O				
									P				
									Q				
									R				
									S				
									T				
									U				
									V				
									W				
									X				
									Y				
									Z				
									AA				
									BB				
									CC				
									DD				
									EE				
									FF				

RADIAL OPTIMA #1- CALIBRATION STANDARD #4 / HLCCV1 (Standard is prepared weekly or as necessary)
(CALIBRATION STANDARD #3 IS A 1/5 DILUTION OF THIS STANDARD)

Cal Std 1	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
	CA	M1780058X	5000	4.00	200	100	2% HNO3	SD 4/8/05	A	M1780060F	M1780059X	5/1/05	M17/mic
	MG		5000			100	5% HCl		B				
	K		5000			100			C				
	NA		5000			100			D				
Cal Std 2	AG	M1780057W	100	2.00		1.00			E				
	CR		100			1.00			F				
	MN		150			1.50			G				
	NI		400			4.00			H				
Cal Std 3	ZN		200			2.00			I				
	AL	M1780059W	2000	2.00		20.0			J				
	BA		2000			20.0			K				
	BE		50			0.500			L				
Cal Std 4	CO		500			5.00			M				
	CU		250			2.50			N				
	FE		1000			10.0			O				
	V		500			5.00			P				
	AS	M1780058H	100	8.00		4.00			Q				
	CD		50			2.00			R				
	PB		50			2.00			S				
	SE		50			2.00			T				
Single Metals	TL		100			4.00			U				
	SB	M1780059B	1000	2.00		10.0			V				
	SN	M1780057J	1000	2.00		10.0			W				
	B	M1780060D	1000	1.00		5.00			X				
115363	MO	M1780057F	1000	1.00		5.00			Y				
	TI	M1780054V	1000	1.00		5.00			Z				
	SR	M1780060C	1000	1.00		5.00			AA				

RADIAL OPTIMA #1 ICV/CV STANDARD (Standard is prepared daily.)

Cal Std 1	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Pipet ID
	CA	M17800601A	5000	2.00	200	50.0	2% HNO3	SD 4/27/05	A	M17800601F	M17800559X	M17800601
	MG		5000			50.0	5% HCl	SD 4/28/05	B	M17800601F	M17800559X	M17800601
	K		5000			50.0			C			
	NA		5000			50.0			D			
Cal Std 2	AG	M1780058K	100	1.00		0.500			E			
	CR		100			0.500			F			
	MN		150			0.750			G			
	NI		400			2.00			H			
	ZN		200			1.00			I			
Cal Std 3	AL	M1780058L	2000	1.00		10.0			J			
	BA		2000			10.0			K			
	BE		50			0.250			L			
	CO		500			2.50			M			
	CU		250			1.25			N			
	FE		1000			5.00			O			
	V		500			2.50			P			
	AS	M17800601K	100	4.00		2.00			Q			
Cal Std 4	CD		50			1.00			R			
	PB		50			1.00			S			
	SE		50			1.00			T			
	TL		100			2.00			U			
	SB	M17800601E	1000	1.00		5.00			V			
Single Elements	SN	M17800550	1000	1.00		5.00			W			
	B	M17800554	1000	0.500		2.50			X			
	MO	M1780055Q	1000	0.500		2.50			Y			
	TI	M1780055V	1000	0.500		2.50			Z			
	SR	M1780055V	1000	0.500		2.50			AA			

RADIAL OPTIMA #1 - HLCCV2 (Standard is prepared weekly or as necessary.)

Cal Std 1	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
	CA	M1780059L	10000	1.00	100	100	2% HNO3	SA 4/2/05	A	M1780060F	M1780059X	4/30/05	AP141
	MG	M1780059M	5000	5.00	500	500	5% HCl		B				
	K	M1780049W	5000	3.00	300	200			C				
	NA	M1780059N	5000	4.00	400	200			D				
Cal Std 2	AG	M1780059V	100	2.00		2.00			E				
	CR	SA 4/2/05	100			2.00			F				
	MN		150			3.00			G				
	NI		400			8.00			H				
	ZN		200			4.00			I				
Cal Std 3	AL	M1780059W	2000	2.00		40.0			J				
	BA		2000			40.0			K				
	BE		50			1.00			L				
	CO		500			10.0			M				
	CU		250			5.00			N				
	FE		1000			20.0			O				
	V		500			10.0			P				
Single Metals	MO	M1780049R	1000	1.00		10.0			Q				
	PR	M1780045W	1000	0.800		10.0			R				
	TI	M1780054V	1000	1.00		10.0			S				
	Al	M1780059K	1000	4.00		500			T				
	Fe	M1780054R	1000	3.80		400			U				
	Mn	M1780052G	1000	0.700		10.0			V				
	As	M1780058H	100	8.00		8.00			W				
	Co		50			4.00			X				
	Pb		50			4.00			Y				
	Sr		50			4.00			Z				
	Ti		100			8.00							

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RADIAL OPTIMA #1 MRL STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Exp. Date	Pipet ID
Cal #1	M1780058X	5000	0.20	1000	1.00	5% HCL	SD 4/18/05	A	M1780060F	M1780057X	10/4/05	M17
		5000			1.00	2% HNO3		B				
		5000			1.00			C				
		5000			1.00			D				
Cal #2	M1780057Y	100	0.10		0.0100			E				
		100			0.0100			F				
		150			0.0150			G				
		200			0.0200			H				
		400			0.0400			I				
		2000	0.10		0.200			J				
Cal #3	M1780058Z	2000			0.200			K				
		1000			0.100			L				
		500			0.050			M				
		500			0.050			N				
		250			0.025			O				
		50			0.00500			P				
		50	0.10		0.0050			Q				
		100			BELOW			R				
Cal #4	M1780058A	50			BELOW			S				
		100						T				
		50						U				
		200	1.00		0.200			V				
PQL #2	M1780057C	25			0.0250			W				
		500			0.500			X				
		50			0.050			Y				
		1000	0.060		0.060			Z				
Single Stds	M1780058B	1000	0.060		0.060							
		1000	0.100		0.100							
		1000	0.300		0.300							
		1000	0.500		0.500							
		1000	0.500		0.500							
		1000	0.500		0.500							
SP49	M1780057L	1000	0.500		0.500							
		1000	0.500		0.500							
		1000	0.500		0.500							
		1000	0.500		0.500							

SP49

RADIAL OPTIMA #1 ICSAB STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Int. A Sol'n	M17800570	Multi	100	1000	Multi		SD 3/24/05	A	M17800570	M17800570	9/24/05	—
AL		5000			500			B				
CA		5000			500			C				
FE		2000			200			D				
MG		5000			500			E				
Int. B Sol'n	M17800570	Multi	10.0		Multi			F				
AG		100			1.00			G				
BA		50			0.500			H				
BE		50			0.500			I				
CD		100			1.00			J				
CO		50			0.500			K				
CR		50			0.500			L				
CU		50			0.500			M				
MN		50			0.500			N				
NI		100			1.00			O				
PB		100			1.00			P				
V		50			0.500			Q				
ZN		100			1.00			R				
								S				
								T				
								U				

ICSA STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Int. A Sol'n	M17800590	Multi	100	1000	Multi	5% HCL	SD 2/22/05	A	M1780058V	M1780057S	8/22/05	—
AL		5000			500	2% HNO3	SD 3/10/05	B	M1780058V	M1780059X	9/10/05	—
CA		5000			500		SD 4/11/05	C	M1780058V	M1780059X	10/11/05	—
FE		2000			200			D				
MG		5000			500			E				
								F				
								G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				
								V				

MISCELLANEOUS STANDARDS

Internal Standard

Type Of Std	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot#	Expiration Date	Pipet ID
	Y	M1780054Y	10000	5.00	500	100	24.1103 5.00 ml	SD 10/6/04	A	M1780055W	M1780056K	4/6/05	M18
	CS	M1780055A	1000	5.00				SD 11/7/04	B	M1780055W	M1780056K	5/17/05	M18
								SD 1/13/05	C	M1780058V	M1780057S	7/13/05	418
								SD 4/8/05	D	M1780055V	M1780059X	10/8/05	M18
									E				
									F				
									G				
									H				
									I				
									J				
									K				
									L				
									M				
									N				
									O				
									P				
									Q				
									R				
									S				
									T				
									U				
									V				
									W				

Reviewed & Approved

By: *CH*

Date: 11/15/04

AXIAL OPTIMA #2 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Single Metals	AL	10000	0.010	1000	0.100	2% HNO ₃	SD 4/11/05	A	M1780059K	M1780059X	4/14/05	M17
	BA	100	0.200	0.020	0.0200	5% HCl	SD 4/18/05	B	M17800590F	M1780059X	4/25/05	M17
	CU	1000	0.020	0.010	0.0100		SD 4/25/05	C	M1780060F	M1780059X	5/2/05	M17
	MN	1000	0.010	0.010	0.0100			D				
	MO	1000	0.025	0.025	0.0250			E				
	SB	1000	0.060	0.060	0.0600			F				
	AS	100	0.100	0.100	0.0100			G				
Cal Std 4	CD	50			0.0050			H				
	SE	50			0.0050			I				
	PB	50			0.0050			J				
	TL	100			0.0100			K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				
								V				
								W				
								X				
								Y				
								Z				
								AA				
								BB				
								CC				
								DD				
								EE				10

AXIAL OPTIMA #2- CALIBRATION STANDARD #4 / HLCCV1 (Standard is prepared weekly or as necessary)
 (CALIBRATION STANDARD #2 IS A 1/100 DILUTION OF THIS STANDARD)
 (CALIBRATION STANDARD #3 IS A 1/5 DILUTION OF THIS STANDARD)

Cal Std 1	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipette
	CA	M1780058X	5000	2.00	200	50.0	2% HNO3	SD 4/21/05	A	M1780060F	M1780059X	4/28/05	M178
	MG		5000			50.0	5% HCl		B				
	K		5000			50.0			C				
	NA		5000			50.0			D				
	AG	M1780059V	100	2.00		1.00			E				
	CR		100			1.00			F				
	MN		150			1.50			G				
	NI		400			4.00			H				
	ZN		200			2.00			I				
	AL	M1780059W	2000	2.00		20.0			J				
	BA		2000			20.0			K				
	BE		50			0.500			L				
	CO		500			5.00			M				
	CU		250			2.50			N				
	FE		1000			10.0			O				
	V		500			5.00			P				
	AS	M1780058H	100	4.00		2.00			Q				
	CD		50			1.00			R				
	PB		50			1.00			S				
	SE		50			1.00			T				
	TL		100			2.00			U				
	SB	M1780059B	1000	2.00		10.0			V				
	SN	M1780059S	1000	2.00		10.0			W				
	B	M1780060D	1000	1.00		5.00			X				
	MO	M1780049R	1000	1.00		5.00			Y				
	TI	M1780054V	1000	1.00		5.00			Z				
Single Metals													

AXIAL OPTIMA #2 ICVCCV STANDARD (Standard is prepared daily.)

Cal Std 1	Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Pipet ID
	CA	M1780060H	5000	1.00	200	25.0	2% HNO3	SD 4/18/05	A	M1780060F	M1780057X	M18/M17
	MG		5000			25.0	5% HCl	SD 4/19/05	B	M1780060F	M1780057X	M18/M17
	K		5000			25.0		SD 4/20/05	C	M1780060F	M1780057X	M18/M17
	NA		5000			25.0		SD 4/21/05	D	M1780060F	M1780057X	M18/M17
Cal Std 2	AG	M1780058K	100	1.00		0.500		SD 4/22/05	E	M1780060F	M1780057X	M18/M17
	CR		100			0.500		SD 4/23/05	F	M1780060F	M1780057X	M18/M17
	MN		150			0.750		SD 4/24/05	G	M1780060F	M1780057X	M18/M17
	NI		400			2.00		SD 4/26/05	H	M1780060F	M1780057X	M18/M17
	ZN		200			1.00			I			
	AL	M1780058L	2000	1.00		10.0			J			
	BA		2000			10.0			K			
	BE		50			0.250			L			
	CO		500			2.50			M			
	CU		250			1.25			N			
	FE		1000			5.00			O			
	V		500			2.50			P			
Cal Std 4	AS	M1780059T	100	2.00		1.00			Q			
	CD		50			0.500			R			
	PB		50			0.500			S			
	SE		50			0.500			T			
	TL		100			1.00			U			
	SB	M1780060E	1000	1.00		5.00			V			
	SN	M1780055O	1000	1.00		5.00			W			
	B	M1780055U	1000	0.500		2.50			X			
Single Elements	MO	M1780055Q	1000	0.500		2.50			Y			
	TI	M1780055V	1000	0.500		2.50			Z			

AXIAL OPTIMA #2- HLCCV2 (Standard is prepared weekly or as necessary)

Metal	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pip ID
Cal Std 2	AG	100	2.00	100	2.00	2% HNO3	SD 4/14/05	A	M1780058X	M1780058X	4/28/05	M18
	CR	100			2.00	5% HCl	SD 4/15/05	B	M178006AF	M1780058X	4/30/05	M18
	MN	150			3.00			C				
	NI	400			8.00			D				
	ZN	200			4.00			E				
Cal Std 3	AL	2000	2.00		40.0			F				
	BA	2000			40.0			G				
	BE	50			1.00			H				
	CO	500			10.0			I				
	CU	250			5.00			J				
	FE	1000			20.0			K				
	V	500			10.0			L				
	AS	100	4.00		4.00			M				
Cal Std 4	CD	50			2.00			N				
	PB	50			below			O				
	SE	50			2.00			P				
	TL	100			4.00			Q				
	MO	1000	1.00		10.0			R				
Single Metals	PB	1000	0.800		10.0			S				
	Al	10000	4.60		500			T				
	Ca	10000	5.00		500			U				
	Fe	10000	1.80		200			V				
	Mg	10000	5.00		500			W				
	Mn	1000	0.700		100			X				
	Cr	1000	0.800		100			Y				
								Z				

AXIAL OPTIMA #2 MRL STANDARD

Cal	Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Exp. Date	Pipet ID
#1	Ca	M1780058X	5000	0.20	1000	1.00	5% HCL	SD 4/11/05	A	M1780058V	M1780058X	10/10/05	M17
	K		5000			BELOW	2% HNO3		B				
	Mg		5000			1.00			C				
	Na		5000			1.00			D				
#2	Cr	M1780058V	100	0.10		0.0100			E				
	Ag		100			0.0100			F				
	Mn		150			0.0150			G				
	Zn		200			0.0200			H				
	Ni		400			0.0400			I				
	Al		2000	0.10		0.200			J				
#3	Ba	M1780058Z	2000			0.200			K				
	Fe		1000			0.100			L				
	Co		500			0.050			M				
	V		500			0.050			N				
	Cu		250			0.025			O				
	Be		50			0.00500			P				
	Cd		50	0.20		0.0100			Q				
#4	As, Tl	M1780058H	100			0.0200			R				
	Pb, Se		50			0.0100			S				
	B		200	1.00		0.200			T				
	Mo		25			0.0250			U				
PQL #2	Sn		500			0.500			V				
	Ti		50			0.050			W				
	Sb		1000	0.060		0.060			X				
	K		10000	0.400		5.00			Y				
Single Stds									Z				

ICSA STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Int. A Sol'n	M17800590	Multi	100	1000	Multi	5% HCL	SD 2/22/05	A	M1780058V	M1780057S	8/22/05	—
AL		5000			500	2% HNO3	SD 3/10/05	B	M1780058V	M1780059X	9/10/05	—
CA		5000			500		SD 4/11/05	C	M1780058V	M1780059X	10/11/05	—
FE		2000			200			D				
MG		5000			500			E				
								F				
								G				
								H				
								I				
								J				
								K				
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								U				
								V				

AXIAL OPTIMA #2 ICSAB STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Int. A Sol'n	M1780058V	Multi	50	500	Multi		SD clulca	A	M1780058V	M1780058V	10/11/05	-
AL		5000			500			B				
CA		5000			500			C				
FE		2000			200			D				
MG		5000			500			E				
Int. B Sol'n	M1780058V	Multi	5		Multi			F				
AG		20			0.200			G				
BA		50			0.500			H				
BE		50			0.500			I				
CD		100			1.00			J				
CO		50			0.500			K				
CR		50			0.500			L				
CU		50			0.500			M				
MN		50			0.500			N				
NI		100			1.00			O				
PB		5			0.0500			P				
V		50			0.500			Q				
ZN		100			1.00			R				
AS		10			0.100			S				
SB		60			0.600			T				
SE		5			0.0500			U				
TL		10			0.100			V				

OPTIMA #2 ON-LINE INTERNAL STANDARD

Element	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Y	M1780054Y	10000	2.0	2000	10.0	2% HNO3	SD 1/24/05	A	M1780058V	M1780057S	7/24/05	M18
Cs	M1780055A	10000	2.0	2000	10.0	5% HCL	SD 1/31/05	B	M1780058V	M1780052S	7/31/05	M18
							SD 2/18/05	C	M1780058V	M1780057S	8/8/05	M18
							SD 2/15/05	D	M1780058V	M1780057S	8/15/05	M18
							SD 2/23/05	E	M1780058V	M1780057S	8/23/05	M18
							SD 2/28/05	F	M1780058V	M1780057X	8/28/05	M18
							SD 3/8/05	G	M1780058V	M1780057X	9/8/05	M18
							SD 3/15/05	H	M1780058V	M1780057X	9/15/05	M18
							SD 3/23/05	I	M1780058V	M1780057X	9/23/05	M18
							DCB 3/20/05	J	M1780058V	M1780059X	9/30/05	M18
							SD 4/7/05	K	M1780058V	M1780057X	10/7/05	M18
							SD 4/14/05	L	M1780058V	M1780057X	10/14/05	M18
							SD 4/21/05	M	M1780060F	M1780057X	10/21/05	M18
								N				
								O				
								P				
								Q				
								R				
								S				

MERCURY CALIBRATION / CRDL STANDARDS

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Expiration Date	Nitric Acid Lot#	Pipet ID
Hg Cal Stk A	m178057m	1000	1.00	100	10.0	0.5% HNO3	DCB 4/22/05	A	4/22/05	m178057m	m4

(PREPARED DAILY)

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot#	Pipet ID
Hg Cal Stk B	Hg Cal Stk A	10.0	1.00	100	0.100	0.5% HNO3	DCB 4/22/05	B	m178057m	m4
							DCB 4/22/05	C	m178057m	m4
								D		
								E		
								F		
								G		
								H		

(PREPARED WITH EACH RUN)

Calibration Standards (ppb)	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot#	Pipet ID
0.200	Hg Cal Stk B	0.100	0.200	100	0.200	0.5% HNO3	DCB 4/22/05	I	m178057m	
0.500			0.500		0.500		DCB 4/22/05	J	m178057m	
1.00			1.00		1.00			K		
2.00			2.00		2.00			L		
5.00			5.00		5.00			M		
10.0			10.0		10.0			N		
CRA			0.200		0.200			O		

MERCURY CCV / LCSW / MS STANDARDS

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Expiration Date	Nitric Acid Lot#	Pipet ID
Hg CCV Stk A	m1780057m	1000	1.00	100	10.0	0.5% HNO3	Dec 4/22/05	A	4/28/05	m1780057m	m4

(PREPARED DAILY)

Standard	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot#	Pipet ID
Hg CCV Stk B	Hg CCV Stk A	10.0	1.00	100	0.100	0.5% HNO3	Dec 4/22/05	B	m1780057m	m4
							Dec 4/26/05	C	m1780057m	m4
								D		
								E		
								F		
								G		
								H		

(PREPARED WITH EACH RUN)

CCV Standard (ppb)	CAS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppb)	Matrix	Analyst/ Date	ID Letter	Nitric Acid Lot#	Pipet ID
3.00	Hg CCV Stk B	0.100	3.00	100	3.00	0.5% HNO3	Dec 4/22/05	I	m1780057m	
LCSW / MS			1.00		1.00		Dec 4/26/05	J	m1780057m	
								K		
								L		
								M		
								N		
								O		

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWNEX.4 (7.0-7.5FT)

Date Sampled : 04/13/05 15:45

Order #: 806850

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.1	%	04/27/05	11:00	1.0

1171

08

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

tern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 1

Date Sampled : 04/12/05 10:10

Order #: 806851

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	91.1	%	04/27/05	11:00	1.0
TOTAL CYANIDE	9012.T	1.00	1.10 U	MG/KG	04/26/05	12:45	1.0

1172

10

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 2

Date Sampled : 04/12/05 10:15

Order #: 806852

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	90.8	%	04/27/05	11:00	1.0
TOTAL CYANIDE	9012.T	1.00	1.10 U	MG/KG	04/26/05	12:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

General Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 3

Date Sampled : 04/12/05 10:20

Order #: 806853

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	90.8	%	04/27/05	11:00	1.0
TOTAL CYANIDE	9012.T	1.00	1.10 U	MG/KG	04/26/05	12:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 4

Date Sampled : 04/12/05 10:30

Order #: 806854

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	89.6	%	04/27/05	11:00	1.0
TOTAL CYANIDE	9012.T	1.00	1.12 U	MG/KG	04/26/05	12:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.2 BOTTOM (3.0FT)

Date Sampled : 04/12/05 12:30

Order #: 806855

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	87.0	%	04/27/05	11:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWN EX.2 (2.5-3.0FT)

Date Sampled : 04/12/05 12:35

Order #: 806856

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.5	%	04/27/05	11:00	1.0

1177

40

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Jtern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWW EX.2 (2.5-3.0FT)

Date Sampled : 04/12/05 12:40

Order #: 806857

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	87.2	%	04/27/05	11:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWE EX.2 (2.5-3.0FT)

Date Sampled : 04/12/05 12:45

Order #: 806858

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	92.6	%	04/27/05	11:00	1.0

1179

44

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Soil Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWS EX.2 (2.5-3.0FT)

Date Sampled : 04/12/05 12:50

Order #: 806859

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	90.0	%	04/27/05	11:00	1.0

1180

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.1 BOTTOM (15.0FT)

Date Sampled : 04/12/05 15:10

Order #: 806860

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	88.5	%	04/27/05	11:00	1.0

1181

48

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWE EX.1 (10.0-10.5FT)

Date Sampled : 04/12/05 15:30

Order #: 806861

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	89.5	%	04/27/05	11:00	1.0

1182
50

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID: SWW EX.1 (8.0-8.5FT)

Date Sampled : 04/12/05 15:40

Order #: 806862

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	92.8	%	04/27/05	11:00	1.0

1183

52

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWN EX.1 (7.0-7.5FT)

Date Sampled : 04/12/05 15:45

Order #: 806863

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	92.0	%	04/27/05	11:00	1.0

1184

54

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWS EX.1 (7.0-7.5FT)

Date Sampled : 04/12/05 15:55

Order #: 806864

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	91.7	%	04/27/05	11:00	1.0

1185

~~56~~

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Soil Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWS EX.3 (8.0-8.5FT)

Date Sampled : 04/13/05 13:00

Order #: 806865

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	81.0	%	04/27/05	11:00	1.0

1186

58

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWE EX.3 (8.0-9.0FT)

Date Sampled : 04/13/05 13:10

Order #: 806866

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	85.9	%	04/27/05	11:00	1.0

1187

60

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWW EX.3 (8.0-9.0FT)

Date Sampled : 04/13/05 13:15

Order #: 806867

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.8	%	04/27/05	11:00	1.0

1188

62

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWN EX.3 (8.0-9.0FT)

Date Sampled : 04/13/05 13:30

Order #: 806868

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.8	%	04/27/05	11:00	1.0

1189

64

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

tern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.1 BACKFILL

Date Sampled : 04/12/05 16:00

Order #: 806869

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	86.8	%	04/27/05	11:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.3 BACKFILL

Date Sampled : 04/13/05 14:00

Order #: 806870

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	84.8	%	04/27/05	11:00	1.0

1191

68

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Soil Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWW EX.4 (12.0-13.0FT)

Date Sampled : 04/13/05 15:30

Order #: 806871

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	84.6	%	04/27/05	11:00	1.0

1192

70

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWE EX.4 (10.0-10.5FT)

Date Sampled : 04/13/05 15:25

Order #: 806872

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.7	%	04/27/05	11:00	1.0

1193

72

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Soil Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.4 BOTTOM (15.0FT)

Date Sampled : 04/13/05 16:10

Order #: 806873

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	82.1	%	04/27/05	11:00	1.0

1194

74

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWS EX.4 (14.0-14.5FT)

Date Sampled : 04/13/05 15:40

Order #: 806874

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	82.8	%	04/27/05	11:00	1.0

1195

76

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Site Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWN EX.5 (7.0-7.5FT)

Date Sampled : 04/14/05 11:15

Order #: 806875

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	82.7	%	04/27/05	11:00	1.0

1196

78

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWE EX.5 (10.0-10.5FT)

Date Sampled : 04/14/05 11:25

Order #: 806876

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	82.0	%	04/27/05	11:00	1.0

1197

80

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

tern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWW EX.5 (6.0-6.5FT)

Date Sampled : 04/14/05 11:35

Order #: 806877

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	81.5	%	04/27/05	11:00	1.0

1198

81A

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWS EX.5 (9.0-9.5FT)

Date Sampled : 04/14/05 11:10

Order #: 806878

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	80.9	%	04/27/05	11:00	1.0

1199

~~83~~

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.5 BOTTOM (15.0FT)

Date Sampled : 04/14/05 11:20

Order #: 806879

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	85.0	%	04/27/05	11:00	1.0

1200

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWN EX.6 (5.0-5.5FT)

Date Sampled : 04/14/05 11:55

Order #: 806880

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.5	%	04/27/05	11:00	1.0

1201

87

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Item Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWS EX.6 (4.5-5.0FT)

Date Sampled : 04/14/05 13:35

Order #: 806881

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.8	%	04/27/05	11:00	1.0

1202

~~89~~

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWE EX.6 (6.0-6.5FT)

Date Sampled : 04/14/05 13:30

Order #: 806882

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	87.7	%	04/27/05	11:00	1.0

1203

~~91~~

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWW EX.6 (6.5-7.0FT)

Date Sampled : 04/14/05 13:39

Order #: 806883

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	84.4	%	04/27/05	11:00	1.0

1204

93

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.6 BOTTOM (7.0FT)

Date Sampled : 04/14/05 14:00

Order #: 806884

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	85.6	%	04/27/05	11:00	1.0

1205

95

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Test Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.7 BOTTOM (15.0FT)

Date Sampled : 04/15/05 14:00

Order #: 806885

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	86.2	%	04/27/05	11:00	1.0

1206

97

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWS EX.7 (5.0-5.5FT)

Date Sampled : 04/15/05 13:45

Order #: 806891

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	82.5	%	04/27/05	11:00	1.0

1209

103

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Item Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWN EX.7 (7.5-8.0FT)

Date Sampled : 04/15/05 13:40

Order #: 806892

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	86.0	%	04/27/05	11:00	1.0

1210

105

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.8 BOTTOM (12.0FT)

Date Sampled : 04/18/05 14:00

Order #: 806893

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	85.3	%	04/27/05	11:00	1.0

1211

107

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.5 BACKFILL

Date Sampled : 04/14/05 12:00

Order #: 806894

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	89.0	%	04/27/05	11:00	1.0

1212

109

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.7 BACKFILL

Date Sampled : 04/15/05 14:10

Order #: 806895

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	88.7	%	04/27/05	11:00	1.0

1213

111

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : EX.3 BOTTOM (10.0FT)

Date Sampled : 04/13/05 13:55

Order #: 807028

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/19/05

Submission #: R2525779

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.6	%	04/27/05	11:00	1.0

1214

~~113~~

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2525779
Client: Stern Properties
SOIL REMOVAL IRM 320 N GOODMAN ST # 041105

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
1.00 U	4.84	5.00	97	83 - 117	115392	MG/KG

TOTAL CYANIDE

115400

PERCENT SOL. 160.3M PERCENT SOLIDS

1 04/28/05 14:51

2 copies

25775

25871 ✓

REPORTED								DATE			
SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #	
	809784	SOIL/SEDIME	1.00	1.0	1.0			04/27/2005			
R2525775	806662	SOIL/SEDIME	79.4	1.0	1.0			04/27/2005		ASPB	
R2525775	806663	SOIL/SEDIME	82.1	1.0	1.0			04/27/2005		ASPB	
R2525770	806611	SOIL/SEDIME	74.2	1.0	1.0			04/27/2005		6	
R2525770	806612	SOIL/SEDIME	70.5	1.0	1.0			04/27/2005		6	
	809785	SOIL/SEDIME	69.6	1.0	1.0		1.30	04/27/2005			
R2525770	806613	SOIL/SEDIME	71.6	1.0	1.0			04/27/2005		6	
R2525779	806850	SOIL/SEDIME	83.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806851	SOIL/SEDIME	91.1	1.0	1.0			04/27/2005	RUN	2	
	809786	SOIL/SEDIME	90.3	1.0	1.0		0.87	04/27/2005			
R2525779	806852	SOIL/SEDIME	90.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806853	SOIL/SEDIME	90.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806854	SOIL/SEDIME	89.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806855	SOIL/SEDIME	87.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806856	SOIL/SEDIME	83.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806857	SOIL/SEDIME	87.2	1.0	1.0			04/27/2005	RUN	2	
R2525779	806858	SOIL/SEDIME	92.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806859	SOIL/SEDIME	90.0	1.0	1.0			04/27/2005	RUN	2	
	809787	SOIL/SEDIME	89.2	1.0	1.0		0.93	04/27/2005			
R2525779	806860	SOIL/SEDIME	88.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806861	SOIL/SEDIME	89.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806862	SOIL/SEDIME	92.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806863	SOIL/SEDIME	92.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806864	SOIL/SEDIME	91.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806865	SOIL/SEDIME	81.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806866	SOIL/SEDIME	85.9	1.0	1.0			04/27/2005	RUN	2	
	809788	SOIL/SEDIME	84.7	1.0	1.0		1.42	04/27/2005			
R2525779	806867	SOIL/SEDIME	83.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806868	SOIL/SEDIME	83.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806869	SOIL/SEDIME	86.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806870	SOIL/SEDIME	84.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806871	SOIL/SEDIME	84.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806872	SOIL/SEDIME	83.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806873	SOIL/SEDIME	82.1	1.0	1.0			04/27/2005	RUN	2	
	809789	SOIL/SEDIME	83.6	1.0	1.0		1.83	04/27/2005			
R2525779	806874	SOIL/SEDIME	82.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806875	SOIL/SEDIME	82.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806876	SOIL/SEDIME	82.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806877	SOIL/SEDIME	81.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806878	SOIL/SEDIME	80.9	1.0	1.0			04/27/2005	RUN	2	
R2525779	806879	SOIL/SEDIME	85.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806880	SOIL/SEDIME	83.5	1.0	1.0			04/27/2005	RUN	2	
	809790	SOIL/SEDIME	84.5	1.0	1.0		1.15	04/27/2005			
R2525779	806881	SOIL/SEDIME	83.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806882	SOIL/SEDIME	87.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806883	SOIL/SEDIME	84.4	1.0	1.0			04/27/2005	RUN	2	
R2525779	806884	SOIL/SEDIME	85.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806885	SOIL/SEDIME	86.2	1.0	1.0			04/27/2005	RUN	2	
R2525779	806888	SOIL/SEDIME	90.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806890	SOIL/SEDIME	84.4	1.0	1.0			04/27/2005	RUN	2	
UP	809791	SOIL/SEDIME	83.5	1.0	1.0		1.10	04/27/2005			

Reviewed & Approved

By: S. J. M. M.Date: 4/28/05

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1216

SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
R2525779	806891	SOIL/SEDIME	82.5	1.0	1.0			04/27/2005	RUN	2
R2525779	806892	SOIL/SEDIME	86.0	1.0	1.0			04/27/2005	RUN	2
R2525779	806893	SOIL/SEDIME	85.2	1.0	1.0			04/27/2005	RUN	2
R2525779	806894	SOIL/SEDIME	89.0	1.0	1.0			04/27/2005	RUN	2
R2525779	806895	SOIL/SEDIME	88.7	1.0	1.0			04/27/2005	RUN	2
R2525779	807028	SOIL/SEDIME	83.6	1.0	1.0			04/27/2005	RUN	2
R2525770	806615	SOIL/SEDIME	52.3	1.0	1.0			04/27/2005		6
	809792	SOIL/SEDIME	59.8	1.0	1.0		13.44	04/27/2005		
R2525770	806617	SOIL/SEDIME	76.6	1.0	1.0			04/27/2005		6
R2525809	807470	SOIL/SEDIME	88.6	1.0	1.0			04/27/2005	RUN	1
R2525809	807471	SOIL/SEDIME	84.0	1.0	1.0			04/27/2005	RUN	1
R2525809	807472	SOIL/SEDIME	88.4	1.0	1.0			04/27/2005	RUN	1
R2525809	807473	SOIL/SEDIME	83.7	1.0	1.0			04/27/2005	RUN	1
R2525816	807566	SOIL/SEDIME	86.4	1.0	1.0			04/27/2005		1
	809793	SOIL/SEDIME	84.6	1.0	1.0		2.14	04/27/2005		
R2525816	807567	SOIL/SEDIME	87.8	1.0	1.0			04/27/2005		1
R2525816	807568	SOIL/SEDIME	85.6	1.0	1.0			04/27/2005		1
R2525825	807839	SOIL/SEDIME	82.6	1.0	1.0			04/27/2005	RUN	2
	809794	SOIL/SEDIME	79.9	1.0	1.0		3.32	04/27/2005		
R2525770	806618	SOIL/SEDIME	63.1	1.0	1.0			04/27/2005		6
R2525770	806619	SOIL/SEDIME	76.2	1.0	1.0			04/27/2005		6
R2525770	806620	SOIL/SEDIME	44.6	1.0	1.0			04/27/2005		6
R2525770	806623	SOIL/SEDIME	76.4	1.0	1.0			04/27/2005	QC	6
	809795	SOIL/SEDIME	76.4	1.0	1.0		0.04	04/27/2005		
R2525828	807872	SOIL/SEDIME	83.1	1.0	1.0			04/27/2005	RUN	2
R2525871	808522	SOIL/SEDIME	83.2	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808523	SOIL/SEDIME	94.6	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808525	SOIL/SEDIME	88.3	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808526	SOIL/SEDIME	90.2	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808527	SOIL/SEDIME	91.3	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808528	SOIL/SEDIME	89.8	1.0	1.0			04/27/2005	RUN	ASPB
	809796	SOIL/SEDIME	89.8	1.0	1.0		0.05	04/27/2005		
R2525871	808529	SOIL/SEDIME	90.0	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808530	SOIL/SEDIME	90.9	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808531	SOIL/SEDIME	93.1	1.0	1.0			04/27/2005	RUN	ASPB
R2525871	808532	SOIL/SEDIME	90.4	1.0	1.0			04/27/2005	RUN	ASPB

Records printed: 87

SOLIDS REPORT

: 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

PLATE: DWPS

3" :

CONTROL

#	ORDER #	SUBMISSION	TYPE	GROSS (g)	TARE (g)	DIFF (g)	% SOLID	DISH ID	LS JOB#	LS LOC#
2	809784	R25 0	MBLK	(1.2200-1.2200)=0.0000			1.00	121		
				(1.2200-1.2200)=0.0000						
	806662	R2525775	ESMP	(10.4500-1.2600)=9.1900			79.40	15		
				(12.8400-1.2600)=11.5800						
	806663	R2525775	ESMP	(9.6800-1.2700)=8.4100			82.10	16		
				(11.5100-1.2700)=10.2400						
5	806611	R2525770	ESMP	(9.3300-1.2700)=8.0600			74.20	17		
				(12.1300-1.2700)=10.8600						
	806612	R2525770	ESMP	(9.3900-1.2800)=8.1100			70.50	18		
				(12.7900-1.2800)=11.5100						
7	809785	R25 0	DUPE	(9.2900-1.2800)=8.0100			69.60	19		
				(12.7900-1.2800)=11.5100						
	806613	R2525770	ESMP	(8.7600-1.3100)=7.4500			71.60	20		
				(11.7100-1.3100)=10.4000						
1	806850	R2525779	ESMP	(9.7600-1.2800)=8.4800			83.00	21		
				(11.4900-1.2800)=10.2100						
11	806851	R2525779	ESMP	(10.6500-1.2700)=9.3800			91.10	22		
				(11.5700-1.2700)=10.3000						
1	809786	R25 0	DUPE	(10.9900-1.3000)=9.6900			90.30	23		
				(12.0300-1.3000)=10.7300						
14	806852	R2525779	ESMP	(10.8500-1.2800)=9.5700			90.80	24		
				(11.8200-1.2800)=10.5400						
1	806853	R2525779	ESMP	(11.1000-1.2700)=9.8300			90.80	25		
				(12.1000-1.2700)=10.8300						
1	806854	R2525779	ESMP	(10.4800-1.2700)=9.2100			89.60	26		
				(11.5500-1.2700)=10.2800						
17	806855	R2525779	ESMP	(11.2800-1.2700)=10.0100			87.00	27		
				(12.7800-1.2700)=11.5100						
1	806856	R2525779	ESMP	(10.3900-1.2500)=9.1400			83.50	28		
				(12.2000-1.2500)=10.9500						
19	806857	R2525779	ESMP	(10.8100-1.3000)=9.5100			87.20	29		
				(12.2000-1.3000)=10.9000						
2	806858	R2525779	ESMP	(10.9800-1.2800)=9.7000			92.60	30		
				(11.7500-1.2800)=10.4700						
21	806859	R2525779	ESMP	(10.8000-1.2200)=9.5800			90.00	31		
				(11.8600-1.2200)=10.6400						
24	809787	R25 0	DUPE	(10.7600-1.2100)=9.5500			89.20	32		
				(11.9200-1.2100)=10.7100						
2	806860	R2525779	ESMP	(10.7700-1.2200)=9.5500			88.50	33		
				(12.0100-1.2200)=10.7900						
25	806861	R2525779	ESMP	(10.6600-1.2100)=9.4500			89.50	34		
				(11.7700-1.2100)=10.5600						
2	806862	R2525779	ESMP	(11.7500-1.2000)=10.5500			92.80	35		
				(12.5700-1.2000)=11.3700						
27	806863	R2525779	ESMP	(11.3500-1.2000)=10.1500			92.00	36		
				(12.2300-1.2000)=11.0300						
28	806864	R2525779	ESMP	(11.0000-1.2200)=9.7800			91.70	37		
				(11.8800-1.2200)=10.6600						
2	806865	R2525779	ESMP	(10.4200-1.2100)=9.2100			81.00	38		
				(12.5800-1.2100)=11.3700						

SOLIDS REPORT

#: 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

LATE: DWPS

f :

CONTROL

	ORDER #	SUBMISSION	TYPE	GROSS(g)	TARE(g)	DIFF(g)	% SOLID	DISH ID	LS JOB#	LS LOC#
1	806866	R2525779	ESMP	(10.5900-1.2100)=9.3800 (12.1300-1.2100)=10.9200			DRY*100 = 85.90 WET	39		
1	809788	R25	DUPE	(11.2200-1.2100)=10.0100 (13.0300-1.2100)=11.8200			DRY*100 = 84.70 WET	40		
3	806867	R2525779	ESMP	(11.1600-1.2600)=9.9000 (13.0700-1.2600)=11.8100			DRY*100 = 83.80 WET	41		
4	806868	R2525779	ESMP	(10.2600-1.2700)=8.9900 (12.0000-1.2700)=10.7300			DRY*100 = 83.80 WET	42		
5	806869	R2525779	ESMP	(10.7600-1.2300)=9.5300 (12.2100-1.2300)=10.9800			DRY*100 = 86.80 WET	43		
6	806870	R2525779	ESMP	(10.3600-1.2600)=9.1000 (11.9900-1.2600)=10.7300			DRY*100 = 84.80 WET	44		
7	806871	R2525779	ESMP	(10.3800-1.2600)=9.1200 (12.0400-1.2600)=10.7800			DRY*100 = 84.60 WET	45		
8	806872	R2525779	ESMP	(10.4900-1.2600)=9.2300 (12.2900-1.2600)=11.0300			DRY*100 = 83.70 WET	46		
9	806873	R2525779	ESMP	(10.5200-1.1900)=9.3300 (12.5500-1.1900)=11.3600			DRY*100 = 82.10 WET	47		
0	809789	R25	DUPE	(11.0100-1.2100)=9.8000 (12.9300-1.2100)=11.7200			DRY*100 = 83.60 WET	48		
2	806874	R2525779	ESMP	(10.6800-1.2100)=9.4700 (12.6500-1.2100)=11.4400			DRY*100 = 82.80 WET	49		
3	806875	R2525779	ESMP	(10.3800-1.2400)=9.1400 (12.2900-1.2400)=11.0500			DRY*100 = 82.70 WET	50		
4	806876	R2525779	ESMP	(9.9600-1.2300)=8.7300 (11.8800-1.2300)=10.6500			DRY*100 = 82.00 WET	51		
5	806877	R2525779	ESMP	(10.4100-1.2200)=9.1900 (12.5000-1.2200)=11.2800			DRY*100 = 81.50 WET	52		
6	806878	R2525779	ESMP	(10.4000-1.2100)=9.1900 (12.5700-1.2100)=11.3600			DRY*100 = 80.90 WET	53		
7	806879	R2525779	ESMP	(11.0700-1.2400)=9.8300 (12.8000-1.2400)=11.5600			DRY*100 = 85.00 WET	54		
8	806880	R2525779	ESMP	(10.1600-1.2100)=8.9500 (11.9300-1.2100)=10.7200			DRY*100 = 83.50 WET	55		
9	809790	R25	DUPE	(10.3100-1.2300)=9.0800 (11.9800-1.2300)=10.7500			DRY*100 = 84.50 WET	56		
1	806881	R2525779	ESMP	(10.8400-1.1900)=9.6500 (12.7000-1.1900)=11.5100			DRY*100 = 83.80 WET	57		
2	806882	R2525779	ESMP	(10.7300-1.2100)=9.5200 (12.0600-1.2100)=10.8500			DRY*100 = 87.70 WET	58		
3	806883	R2525779	ESMP	(10.2000-1.2200)=8.9800 (11.8600-1.2200)=10.6400			DRY*100 = 84.40 WET	59		
4	806884	R2525779	ESMP	(10.0900-1.2300)=8.8600 (11.5800-1.2300)=10.3500			DRY*100 = 85.60 WET	60		
5	806885	R2525779	ESMP	(10.5000-1.2300)=9.2700 (11.9900-1.2300)=10.7600			DRY*100 = 86.20 WET	61		
6	806888	R2525779	ESMP	(10.9600-1.2400)=9.7200 (11.9400-1.2400)=10.7000			DRY*100 = 90.80 WET	62		
7	806890	R2525779	ESMP	(11.0400-1.2100)=9.8300 (12.8500-1.2100)=11.6400			DRY*100 = 84.40 WET	64		

SOLIDS REPORT

I : 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

UPDATE: DWPS

IT :

	ORDER #	SUBMISSION	CONTROL TYPE	GROSS (g)	TARE (g)	DIFF (g)	% SOLID	DISH ID	LS JOB#	LS LOC#
38	809791	R25 0	DUPE	(10.9700-1.2200)=9.7500 (12.9000-1.2200)=11.6800			DRY*100 = 83.50 WET	65		
51	806891	R2525779	ESMP	(9.8600-1.2300)=8.6300 (11.6900-1.2300)=10.4600			DRY*100 = 82.50 WET	66		
53	806892	R2525779	ESMP	(10.6700-1.2000)=9.4700 (12.2100-1.2000)=11.0100			DRY*100 = 86.00 WET	67		
52	806893	R2525779	ESMP	(10.5900-1.2200)=9.3700 (12.2100-1.2200)=10.9900			DRY*100 = 85.20 WET	68		
5	806894	R2525779	ESMP	(10.5100-1.2100)=9.3000 (11.6600-1.2100)=10.4500			DRY*100 = 89.00 WET	59		
54	806895	R2525779	ESMP	(10.6000-1.2300)=9.3700 (11.7900-1.2300)=10.5600			DRY*100 = 88.70 WET	70		
5	807028	R2525779	ESMP	(10.6700-1.2000)=9.4700 (12.5300-1.2000)=11.3300			DRY*100 = 83.60 WET	71		
56	806615	R2525770	ESMP	(6.6400-1.2300)=5.4100 (11.5800-1.2300)=10.3500			DRY*100 = 52.30 WET	73		
5	809792	R25 0	DUPE	(7.7700-1.2300)=6.5400 (12.1600-1.2300)=10.9300			DRY*100 = 59.80 WET	74		
5	806617	R2525770	ESMP	(9.0700-1.2300)=7.8400 (11.4600-1.2300)=10.2300			DRY*100 = 76.60 WET	75		
70	807470	R2525809	ESMP	(10.9800-1.2200)=9.7600 (12.2300-1.2200)=11.0100			DRY*100 = 88.60 WET	76		
7	807471	R2525809	ESMP	(10.8000-1.2000)=9.6000 (12.6300-1.2000)=11.4300			DRY*100 = 84.00 WET	77		
72	807472	R2525809	ESMP	(10.2400-1.2700)=8.9700 (11.4200-1.2700)=10.1500			DRY*100 = 88.40 WET	78		
7	807473	R2525809	ESMP	(9.9600-1.2200)=8.7400 (11.6600-1.2200)=10.4400			DRY*100 = 83.70 WET	79		
7	807566	R2525816	ESMP	(11.3000-1.2300)=10.0700 (12.8800-1.2300)=11.6500			DRY*100 = 86.40 WET	80		
75	809793	R25 0	DUPE	(10.0900-1.2100)=8.8800 (11.7100-1.2100)=10.5000			DRY*100 = 84.60 WET	82		
7	807567	R2525816	ESMP	(10.9100-1.2300)=9.6800 (12.2500-1.2300)=11.0200			DRY*100 = 87.80 WET	83		
78	807568	R2525816	ESMP	(11.0200-1.2200)=9.8000 (12.6700-1.2200)=11.4500			DRY*100 = 85.60 WET	84		
	807839	R2525825	ESMP	(11.1500-1.2500)=9.9000 (13.2400-1.2500)=11.9900			DRY*100 = 82.60 WET	1		
	809794	R25 0	DUPE	(11.0300-1.2900)=9.7400 (13.4800-1.2900)=12.1900			DRY*100 = 79.90 WET	2		
82	806618	R2525770	ESMP	(8.7500-1.2200)=7.5300 (13.1500-1.2200)=11.9300			DRY*100 = 63.10 WET	85	D3	
	806619	R2525770	ESMP	(9.6600-1.2200)=8.4400 (12.2900-1.2200)=11.0700			DRY*100 = 76.20 WET	86	D3	
84	806620	R2525770	ESMP	(6.3300-1.2300)=5.1000 (12.6500-1.2300)=11.4200			DRY*100 = 44.60 WET	87	D3	
	806623	R2525770	ESMP	(8.9400-1.2100)=7.7300 (11.3200-1.2100)=10.1100			DRY*100 = 76.40 WET	88	D3	
	809795	R25 0	DUPE	(9.7400-1.2100)=8.5300 (12.3700-1.2100)=11.1600			DRY*100 = 76.40 WET	89		

SOLIDS REPORT

I #: 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

IPLATE: DWPS

IT :

#	ORDER #	SUBMISSION	CONTROL		GROSS(g)	TARE(g)	DIFF(g)	% SOLID	DISH ID	LS	LS
			TYPE							JOB#	LOC#
18	807872	R2525828	ESMP		(10.2500-1.2700)=8.9800 (12.0800-1.2700)=10.8100		DRY*100 = 83.10 WET	3			
19	808522	R2525871	ESMP		(10.9600-1.2700)=9.6900 (12.9200-1.2700)=11.6500		DRY*100 = 83.20 WET	4			
20	808523	R2525871	ESMP		(11.8600-1.2700)=10.5900 (12.4600-1.2700)=11.1900		DRY*100 = 94.60 WET	5			
21	808525	R2525871	ESMP		(10.4700-1.2800)=9.1900 (11.6900-1.2800)=10.4100		DRY*100 = 88.30 WET	6			
22	808526	R2525871	ESMP		(11.3900-1.2900)=10.1000 (12.4900-1.2900)=11.2000		DRY*100 = 90.20 WET	7			
23	808527	R2525871	ESMP		(10.7100-1.2700)=9.4400 (11.6100-1.2700)=10.3400		DRY*100 = 91.30 WET	8			
24	808528	R2525871	ESMP		(10.5300-1.2600)=9.2700 (11.5800-1.2600)=10.3200		DRY*100 = 89.80 WET	9			
25	809796	R25 0	DUPE		(10.6500-1.2800)=9.3700 (11.7200-1.2800)=10.4400		DRY*100 = 89.80 WET	10			
27	808529	R2525871	ESMP		(10.8200-1.2700)=9.5500 (11.8800-1.2700)=10.6100		DRY*100 = 90.00 WET	11			
28	808530	R2525871	ESMP		(11.2700-1.2800)=9.9900 (12.2700-1.2800)=10.9900		DRY*100 = 90.90 WET	12			
29	808531	R2525871	ESMP		(11.3300-1.2800)=10.0500 (12.0700-1.2800)=10.7900		DRY*100 = 93.10 WET	13			
30	808532	R2525871	ESMP		(10.5400-1.2800)=9.2600 (11.5200-1.2800)=10.2400		DRY*100 = 90.40 WET	14			

MB Dish # 121

0A

Dry Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: KMC

Date: 4/27/05

Time: 10:05

"S" weight initial: 10.01 final: 10.00

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
807839	R25-		13.24	Gross	11.15	
	-25825	1	1.25	Tare		
				Diff.		
607839			13.48	Gross	11.03	
DUP	↓	2	1.29	Tare		
				Diff.		
307872	R25-		12.08	Gross	10.25	
	25828	3	1.27	Tare		
				Diff.		
308522	R25-		12.92	Gross	10.96	
	25871	4	1.27	Tare		
				Diff.		
308523			12.46	Gross	11.86	
		5	1.27	Tare		
				Diff.		
308525			11.69	Gross	10.47	
		6	1.28	Tare		
				Diff.		
308526			12.49	Gross	11.39	
		7	1.29	Tare		
				Diff.		
808527			11.61	Gross	10.71	
		8	1.27	Tare		
				Diff.		

#08

→ MB#2

Dry Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: UNKDate: 4/27/05

Time: _____

"S" weight initial: _____

final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
808528	R25- 25871	9	11.58 1.26	Gross Tare	10.53	
				Diff.		
808528		10	11.72 1.28	Gross Tare	10.65	
DUP				Diff.		
808529		11	11.88 1.27	Gross Tare	10.82	
				Diff.		
808530		12	12.27 1.28	Gross Tare	11.27	
				Diff.		
808531		13	12.07 1.28	Gross Tare	11.33	
				Diff.		
808532		14	11.52 1.28	Gross Tare	10.54	
				Diff.		
				Gross		
				Tare		
				Diff.		
				Gross		
				Tare		
				Diff.		
				Gross		
				Tare		
				Diff.		
				Gross		
				Tare		
				Diff.		
				Gross		
				Tare		
				Diff.		

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1223

1

→ MB#3

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: RMC

Date: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
306662	R25 - 25775	15	12.84 1.26	Gross Tare	10.45	
				Diff.		
306663	R25 - 25775	16	11.51 1.27	Gross Tare	9.68	
				Diff.		
206611		17	12.13 1.27	Gross Tare	9.33	
				Diff.		
306612		18	12.79 1.28	Gross Tare	9.39	
				Diff.		
306612 DWP		19	12.79 1.28	Gross Tare	9.29	
				Diff.		
206613		20	11.71 1.31	Gross Tare	8.76	
				Diff.		
	R25 -		11.49	Gross	9.76	
206850	25779	21	1.28	Tare		
				Diff.		
			11.57	Gross	10.65	
306851		22	1.27	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====

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#2

→ MB # 4

Dry Weight Percent Solids

Analyst: KMCDate: 4/27/05 Time: _____ "S" weight initial: _____ final: _____Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
806851	R25-		12.03	Gross	10.99	
DUP	25779	23	1.30	Tare		
=====	=====	=====	=====	=====	=====	=====
			11.82	Gross	10.85	
806852		24	1.28	Tare		
=====	=====	=====	=====	=====	=====	=====
			12.10	Gross	11.10	
806853		25	1.27	Tare		
=====	=====	=====	=====	=====	=====	=====
			11.55	Gross	10.48	
806854		26	1.27	Tare		
=====	=====	=====	=====	=====	=====	=====
			12.78	Gross	11.28	
806855		27	1.27	Tare		
=====	=====	=====	=====	=====	=====	=====
			12.20	Gross	10.39	
806856		28	1.25	Tare		
=====	=====	=====	=====	=====	=====	=====
			12.20	Gross	10.81	
806857		29	1.30	Tare		
=====	=====	=====	=====	=====	=====	=====
			11.75	Gross	10.98	
806858		30	1.28	Tare		
=====	=====	=====	=====	=====	=====	=====
				Diff.		

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1225

#3

→ MB #5

Dry Weight Percent Solids

Analyst: KMCDate: 4/27/05

Time: _____

"S" weight initial: _____

final: _____

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
756859	R25-		11.86	Gross	10.80	
	25779	31	1.22	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			11.92	Gross	10.76	
6806859		32	1.21	Tare		
DUP				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.01	Gross	10.77	
306860		33	1.22	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			11.77	Gross	10.66	
906861		34	1.21	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.57	Gross	11.75	
006862		35	1.20	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.23	Gross	11.35	
006863		36	1.20	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			11.88	Gross	11.00	
306864		37	1.22	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.58	Gross	10.42	
706865		38	1.21	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====

→ MB# 6

#4

Dry Weight Percent Solids

Columbia Analytical Services

Analyst: UML

1 Mustard Street

Rochester, NY 14609

Date: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
	R25 -		12.13	Gross	10.59	
306866	25779	39	1.21	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			13.03	Gross	11.22	
306866		40	1.21	Tare		
DWD				Diff.		
=====	=====	=====	=====	=====	=====	=====
			13.07	Gross	11.16	
306867		41	1.26	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.00	Gross	10.26	
306868		42	1.27	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.21	Gross	10.76	
306869		43	1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			11.99	Gross	10.36	
306870		44	1.26	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.04	Gross	10.38	
306871		45	1.26	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.29	Gross	10.49	
306872		46	1.26	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====

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1227

#5

→ MB #7

Dry Weight Percent Solids

Analyst:

UNC

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Date:

4/27/05

Time:

"S" weight initial:

final:

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
206873	R25- 25779	47	12.55 1.19	Gross Tare	10.52	
=====	=====	=====	=====	=====	=====	=====
206873 DUP		48	12.93 1.21	Gross Tare	11.01	
=====	=====	=====	=====	=====	=====	=====
206874		49	12.65 1.21	Gross Tare	10.68	
=====	=====	=====	=====	=====	=====	=====
206875		50	12.29 1.24	Gross Tare	10.38	
=====	=====	=====	=====	=====	=====	=====
206876		51	11.88 1.23	Gross Tare	9.96	
=====	=====	=====	=====	=====	=====	=====
206877		52	12.50 1.22	Gross Tare	10.41	
=====	=====	=====	=====	=====	=====	=====
206878		53	12.57 1.21	Gross Tare	10.40	
=====	=====	=====	=====	=====	=====	=====
206879	✓	54	12.80 1.24	Gross Tare	11.07	
=====	=====	=====	=====	=====	=====	=====

→ MB #8

ID
29
1-19

#6

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: KMC

Date: 4/27/05 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
306880	R25 -	55	11.93	Gross	10.16	
			1.21	Tare		
	25779			Diff.		
=====	=====	=====	=====	=====	=====	=====
06880		56	11.98	Gross	10.31	
DUP			1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
306881		57	12.70	Gross	10.84	
			1.19	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806882		58	12.06	Gross	10.73	
			1.21	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806883		59	11.86	Gross	10.20	
			1.22	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806884		60	11.58	Gross	10.09	
			1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806885		61	11.99	Gross	10.50	
			1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806888		62	11.94	Gross	10.96	
			1.24	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====

MB #9

IV 03
1.23

1.24

#7

Dry Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: UMCDate: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
806890	R25- 25779	64	12.85 1.21	Gross Tare	11.04	
806890		65	12.90 1.22	Gross Tare	10.97	
806891		66	11.69 1.23	Gross Tare	9.86	
806892		67	12.21 1.20	Gross Tare	10.67	
806893		68	12.21 1.22	Gross Tare	10.59	
806894		69	11.66 1.21	Gross Tare	10.51	
806895		70	11.79 1.23	Gross Tare	10.60 10.67	wrote in wrong box
807028		71	12.53 1.20	Gross Tare	10.67	

#8

→ MB #10

Dry Weight Percent Solids

Analyst: KMC

Date: 4/27/05

Time: _____

"S" weight initial: _____

final: _____

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
806615	R25-25770	73	11.58 1.23	Gross Tare	6.64	
806615 DUP	↓	74	12.16 1.23	Gross Tare	7.77	
806617	↓	75	11.46 1.23	Gross Tare	9.07	
807470	R25-25809	76	12.23 1.22	Gross Tare	10.98	
807471	R25-↓	77	12.63 1.20	Gross Tare	10.80	
807472	↓	78	11.42 1.25 1.27	Gross Tare	10.24	
807473	↓	79	11.66 1.22	Gross Tare	9.96	
807566	R25-25816	80	12.88 1.23	Gross Tare	11.30	

#9

→ MB # 11 #81

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: LMC

Date: 4/27/05 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
507566 DWP	R25- 25816	81 82	11.71 1.21	Gross Tare	10.09	
507567	↓	83	12.25 1.23	Gross Tare	10.91	
507568	↓	84	12.67 1.22	Gross Tare	11.02	
507839	R25- 25825			Gross Tare		
U6615	22 R25- 25770	85	13.15 1.22	Gross Tare	8.75	
506619	↓	86	12.29 1.22	Gross Tare	9.66	
806620	↓	87	12.65 1.23	Gross Tare	6.33	
806623	↓	88	11.32 1.21	Gross Tare	8.94	

moved to beginning of run
prior to analysis

switched
order due to R25

10

→ MB # 12

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609Analyst: KMCDate: 4/27/05

Time: _____

'S' weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
306623	R25-		12.37	Gross	9.74	
DWP	25770	89	1.21	Tare		
=====	=====	=====	=====	=====	=====	=====
				Diff.		
				Gross	1.22	
				Tare		
				Diff.		
MB#1		121	1.22	Gross	1.21	
=====	=====	=====	=====	=====	=====	=====
				Tare		
				Diff.		
MB#2		122	1.21	Gross	1.22	
=====	=====	=====	=====	=====	=====	=====
				Tare		
				Diff.		
MB#3		123	1.21	Gross	1.21	
=====	=====	=====	=====	=====	=====	=====
				Tare		
				Diff.		
MB#4		124	1.22	Gross	1.21	
=====	=====	=====	=====	=====	=====	=====
				Tare		
				Diff.		
MB#5		128	1.21	Gross	1.22	
=====	=====	=====	=====	=====	=====	=====
				Tare		
				Diff.		
MB#6		135	1.21	Gross	1.23	
=====	=====	=====	=====	=====	=====	=====
				Tare		
				Diff.		
MB#7		116	1.21	Gross		
=====	=====	=====	=====	=====	=====	=====
				Tare		
				Diff.		

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1233

#: 115392

e: TOTAL CN 9012.TOT TOTAL CYANIDE BY SW-846 9012A

d: 04/27/05 11:53

R25054
R25792Kuri
115392
115391

				REPORTED						DATE		
	SUBMISSION	ORDER #	MATRIX	RESULT		DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #
L		808737	WATER	0.313		1.0	0.0100	104.2		04/26/2005		
		808738	WATER	0.0100	U	1.0	0.0100			04/26/2005		
		808739	WATER	0.0100	U	1.0	0.0100			04/26/2005		
B		808740	WATER	0.102		1.0	0.0100	102.2		04/26/2005		
		808741	WATER	0.397		1.0	0.0100	99.3		04/26/2005		
	R2525654	804470	WATER	0.0100	U	1.0	0.0100			04/26/2005	RUN	ASP-B
P	R2525654	804472	WATER	0.0100	U	1.0	0.0100			04/26/2005	RUN	ASP-B
		808742	WATER	0.0100	U	1.0	0.0100			04/26/2005		
		808743	WATER	0.0786		1.0	0.0100	78.6		04/26/2005		
P	R2525769	806582	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
P	R2525769	806583	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525769	806584	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
		808744	WATER	0.318		1.0	0.0100	106.2		04/26/2005		
P	R2525769	806585	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525769	806586	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525769	806587	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
P	R2525769	806588	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
P	R2525769	806589	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525769	806590	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525770	806611	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005		6
P	R2525770	806612	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005		6
	R2525770	806613	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005		6
		808749	SOIL/SEDIME	0.302		1.0	1.00	100.7		04/26/2005		
P	R2525779	806851	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005	RUN	2
		808750	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005		
		808752	SOIL/SEDIME	4.84		1.0	1.00	96.8		04/26/2005		
S		808753	SOIL/SEDIME	9.26		1.0	1.00	46.3		04/26/2005		
P	R2525779	806852	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005	RUN	2
	R2525779	806853	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005	RUN	2
	R2525779	806854	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005	RUN	2
P		808754	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005		
		808755	SOIL/SEDIME	4.20		1.0	1.00	97.4		04/26/2005		
	R2525769	806591	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
P	R2525769	806592	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525769	806593	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525769	806594	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
S		808746	WATER	0.315		1.0	0.0100	105.1		04/26/2005		
P	R2525769	806595	WATER	0.0100	U	1.0	0.0100			04/26/2005	QC	6
		808747	WATER	0.0100	U	1.0	0.0100			04/26/2005		
		808748	WATER	0.0904		1.0	0.0100	90.4		04/26/2005		
P	R2525769	806597	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
	R2525769	806598	WATER	0.0100	U	1.0	0.0100			04/26/2005		6
		808756	WATER	0.321		1.0	0.0100	106.9		04/26/2005		
P	R2525770	806615	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005		6
	R2525770	806617	SOIL/SEDIME	1.00	U	1.0	1.00			04/26/2005		6

Cords printed: 45

Reviewed & Approved

By: CK/UT/BLDate: 4/27/05

YTE:G:\STARLIMS\ASBAR.RP1

Midi-Cyanide Distillation Sheet

Method: 335.2 CLP-M Cyanide, Total

Stock ppm: 1022.36 WC71044A

Analyst: GNITA

Date Std'n: 3/4/05

Date: 4/25/05

10 ppm Spike Solution:

Chiller Temp: 6°C

Date made: 4/25/05

Block #1 Temp: 13.5°

mL used: 0.978

Block #2 Temp: 13.5°

Pipette ID: BATMAN

Spike witness: CMW

1

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol	Method	pH	H2S +/-	Comments
1	Prep Blk	water		50	50	9012/335	N/A	N/A	
2	LCS-LL	water		50	50	9012/335	N/A	N/A	+0.5mls of 10ppm
3	LCS-HL	water		50	50	9012/335	N/A	N/A	+2.0mls of 10ppm
4		R25654	804470	50	50	9012	7.12	-	
5			804472	50	50	9012	7.12	-	
6			472DUP	50	50	9012	7.12	-	
7			472SPK	50	50	9012	7.12	-	+0.5mls of 10ppm
8		R25769	806582	50	50	9012	7.12	-	
9			806583	50	50	9012	7.12	-	
10			806584	50	50	9012	7.12	-	
11			806585	50	50	9012	7.12	-	
12			806586	50	50	9012	7.12	-	
13			806587	50	50	9012	7	-	
14			806588	50	50	9012	7.12	-	
15			806589	50	50	9012	7.12	-	
16			806590	50	50	9012	7.12	-	
17			806591	50	50	9012	7.12	-	
18			806592	50	50	9012	7.12	-	
19			806593	50	50	9012	7.12	-	
20			806594	50	50	9012	7.12	-	

1237

Midi-Cyanide Distillation Sheet

Method: 335.2 CLP-M Cyanide, Total

Stock ppm: 1022.36 WC 71044A

Analyst: GNITH

Date Std'n: 3/4/05

Date: 4/25/05

10 ppm Spike Solution:

Still Temp: 62

Date made: 4/25/05

Midi Block #1 Temp: 130°C

mL used: 0.978

Midi Block #2 Temp: 135°C

Pipette ID: BATHAN

SPK Volume: 50

2

Still #	QC type	Subm. #	Order #	Dist. Vol.	Final Vol	Method	pH	H2S +/-	Comments
1		R25769	806595	50	50	9012	7.12		
2			595DUP	50	50	9012	7.12		
3			595SPK	50	50	9012	7.12		+0.5mls of 10ppm
4			806597	50	50	9012	7.12		
5			806598	50	50	9012	7.12		
6		R25792	807125	50	50	335.4	7.12		
7	Prep Blk	SOIL		1.00	50	9012	N/A		
8	LCS-LL	SOIL		1.00	50	9012	N/A		+0.5mls of 10ppm
9	LCS-HL	SOIL		1.00	50	9012	N/A		+2.0mls of 10ppm
10		R25779	806851	1.09	50	9012	N/A		
11			806852	1.02	50	9012	N/A		
12			806853	1.17	50	9012	N/A		
13			806854	1.03	50	9012	N/A		
14			854DUP	1.14	50	9012	N/A		
15			854SPK	1.16	50	9012	N/A		+0.5mls of 10ppm
16		R25770	806611	1.22	50	9012	N/A		
17			806612	1.05	50	9012	N/A		
18			806613	1.10	50	9012	N/A		
19			806615	1.02	50	9012	N/A		
20			806617	1.11	50	9012	N/A		

1238

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Cyanide AA (Total, Weak Acid Dissociable, and Amenable)

Applicable Methods: 335.2 CLP-M/335.4, 9012A, 335.1 (Amn), SM4500(W&D)

Analyst : N. MEAD CC : 0.99960
 Date : 4/26/05 Slope : 186.68
 Analysis Time: 12:45 Y-int : 0.62675
 Pipette: TOONCES, ROBIN, SALLY

Total CN (wet Wght.) = mg/L Dist * Dist. Vol. * Dil^n / Sample Vol. Amenable CN = Total CN - Fixed CN

	Method	Job #	Order #	Peak Height	mg/L	Original Vol. (mls)	Final Vol. (mls)	Dil.	Total CN mg/L	Fixed CN mg/L	Amenable CN mg/L	Distill Date	#	# Pos.
1			0.50	92.3	0.49106						98.2%			
2			0.40	75.7	0.40214						100.5%			
3			0.30	58.0	0.30733						102.4%			
4			0.20	39.0	0.20555						102.8%			
5			0.10	20.1	0.10431						104.3%			
6			0.05	9.8	0.04914						98.3%			
7			0.02	3.9	0.01753						87.7%			
8			0.01	1.8	0.00628						62.8%			
9			0.00	0.0	-0.00336									
0		ICV	1	59.0	0.31269									
11		ICB	1	0.0	-0.00336									
12	9012/335	Prep Blk	1	0.0	-0.00336	50	50	1	-0.0034			4/25	1	-1
13	9012/335	LCS-LL	1	19.7	0.10217	50	50	1	0.1022			4/25	1	2
14	9012/335	LCS-HL	1	74.8	0.39732	50	50	1	0.3973			4/25	1	3
15	9012	R25654	804470	0.0	-0.00336	50	50	1	-0.0034			4/25	1	4
16	9012		804472	0.0	-0.00336	50	50	1	-0.0034			4/25	1	5
17	9012		472DUP	0.0	-0.00336	50	50	1	-0.0034			4/25	1	6
18	9012		472SPK	15.3	0.07860	50	50	1	0.0786			4/25	1	7
19	9012	R25769	806582	0.0	-0.00336	50	50	1	-0.0034			4/25	1	8
20	9012		806583	0.0	-0.00336	50	50	1	-0.0034			4/25	1	9
21	9012		806584	0.0	-0.00336	50	50	1	-0.0034			4/25	1	10
22		CCV	2	60.1	0.31858									
23		CCB	2	0.0	-0.00336									

#	Method	Job #	Order #	Peak Height	mg/L	Original Vol. (mls)	Final Vol. (mls)	Dil.	Total CN mg/L	Fixed CN mg/L	Amenable CN mg/L	Distill Date	#	#
2	9012		806585	0.0	-0.00336	50	50	1	-0.0034			4/25	1	11
25	9012		806586	0.0	-0.00336	50	50	1	-0.0034			4/25	1	12
2	9012		806587	0.0	-0.00336	50	50	1	-0.0034			4/25	1	13
27	9012		806588	0.5	-0.00068	50	50	1	-0.0007			4/25	1	14
20	9012		806589	0.4	-0.00121	50	50	1	-0.0012			4/25	1	15
2	9012		806590	0.0	-0.00336	50	50	1	-0.0034			4/25	1	16
30	9012		806591	0.0	-0.00336	50	50	1	-0.0034			4/25	1	17
3	9012		806592	0.0	-0.00336	50	50	1	-0.0034			4/25	1	18
32	9012		806593	0.0	-0.00336	50	50	1	-0.0034			4/25	1	19
2	9012		806594	0.0	-0.00336	50	50	1	-0.0034			4/25	1	20
34		CCV	3	57.0	0.30197									
3		CCB	3	0.0	-0.00336									
36	9012		806595	0.0	-0.00336	50	50	1	-0.0034			4/25	2	1
3	9012		595DUP	0.0	-0.00336	50	50	1	-0.0034			4/25	2	2
38	9012		595SPK	17.5	0.09038	50	50	1	0.0904			4/25	2	3
3	9012		806597	0.0	-0.00336	50	50	1	-0.0034			4/25	2	4
40	9012		806598	0.0	-0.00336	50	50	1	-0.0034			4/25	2	5
41	335.4	R25792	807125	0.0	-0.00336	50	50	1	-0.0034			4/25	2	6
42	9012	PB-SOIL	2	0.0	-0.00336	1	50	1	-0.1679			4/25	2	7
43	9012	LCSLL-S	2	18.7	0.09681	1	50	1	4.8406			4/25	2	8
4	9012	LCSHL-S	2	35.2	0.18520	1	50	1	9.2599			4/25	2	9
45	9012	R25779	806851	0.0	-0.00336	1.09	50	1	-0.1540			4/25	2	10
4		CCV	4	59.5	0.31536									
47		CCB	4	0.0	-0.00336									
4	9012		806852	0.0	-0.00336	1.02	50	1	-0.1646			4/25	2	11
49	9012		806853	0.0	-0.00336	1.17	50	1	-0.1435			4/25	2	12
5	9012		806854	0.0	-0.00336	1.03	50	1	-0.1630			4/25	2	13
51	9012		854DUP	0.0	-0.00336	1.14	50	1	-0.1473			4/25	2	14
52	9012		854SPK	18.8	0.09735	1.16	50	1	4.1960			4/25	2	15

#	Method	Job #	Order #	Peak Height	mg/L	Original Vol. (mls)	Final Vol. (mls)	Dil.	Total CN mg/L	Fixed CN mg/L	Amenable CN mg/L	Distill. Date	#	Pos. #
53	9012	R25770	806611	0.0	-0.00336	1.22	50	1	-0.1376			4/25	2	16
54	9012		806612	0.0	-0.00336	1.05	50	1	-0.1599			4/25	2	17
55	9012		806613	0.0	-0.00336	1.1	50	1	-0.1526			4/25	2	18
56	9012		806615	0.0	-0.00336	1.02	50	1	-0.1646			4/25	2	19
57	9012		806617	0.0	-0.00336	1.11	50	1	-0.1512			4/25	2	20
58		CCV	5	60.5	0.32072									
59		CCB	5	0.0	-0.00336									

Columbia Analytical Services
1 Mustard St., Rochester NY

General Chemistry Analytical Run Cover Sheet

Analyst: N. Mead Date: 4/26/05

Analysis: Total Cyanide Instrument: Technicon AA

Quality Control:

	Same as Log #, Date	Stock Sol (mLs)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Stds. Prep. :	WC69161A, 8/02/04				
10 ppm Working Stock:	WC69160B, 8/02/04	1.020	1022.36	100	10.0
b) I/CCV (Ref.) Prep.:	WC69161B, 8/02/04	0.30	10	10	0.30
10 ppm Working Stock:	WC69160F, 8/02/04	1.002	998.4	100	10.0
c) LCS (water) Prep:	WC69160D, 8/02/04	2	10	50	0.4
LCS (water) Prep:	WC69160C, 8/02/04	0.5	10	50	0.1
LCS (soil) Prep. :	WC69160D, 8/02/04	2	10	~1 g.	~ 20 (see bench sheet)
LCS (soil) Prep:	WC69160C, 8/02/04	0.5	10	~1 g.	~ 5 (see bench sheet)
Mtx Spk (water) Prep:	WC69160E, 8/02/04	0.5	10	50	0.1
Mtx Spk (soil) Prep:	WC69160E, 8/02/04	0.5	10	~1 g.	~5 (see bench sheet)

Comments:

1000 mg/L TCN Std. Stock prepared 7/22/04, WC69154D, standardized 3/04/05, WC71044A
1000 mg/L TCN Ref. Stock prepared 7/22/04, WC69154E, standardized 7/22/04, WC71016B

10 mg/L Std. and Ref. working stocks are prepared weekly using the above Stock solutions,
diluting to volume with 0.25N NaOH

Method Reference: 335.2 EPA 600; 9010A, 9012 EPA SW-846; 335.2 CLP-M NYSASP

Packages: Copy and attach Standards Preparation

Instrument log filled in? (Y)(N)

Comments:

8/2/04
cmw(A) TCN AA STANDARDS

Conc. (mg/L)	mls 10ppm Std. Stock (WC69160B)	mls 0.25N NaOH (WC69160A)
0.500	0.50	9.50
0.400	0.40	9.60
0.300	0.30	9.70
0.200	0.20	9.80
0.100	0.10	9.90
0.050	1/10 of 0.500 std.	9.00
0.020	1/10 of 0.200 std.	9.00
0.010	1/10 of 0.100 std.	9.00
0.000	10 mls of 0.25N NaOH	

standards)
standardization
),
1°C.

WC69160B)
1.0g
ppm
0.0ppm

(B) CCV/ICV AA Prep

Add 0.3mLs 10ppm Ref. working stock (WC69160F)
to 9.7mLs 0.25N NaOH (WC69160A). Run every
10 samples. Make fresh each run.

< (WC69160B)
1.0g
ppm
= 20.0ppm.

8/3/04
CB(C) TDS Reference

0.9120g NaCl (WC65154C) diluted to 1L with
DI H₂O [Volumetric Flask] Stored in plastic
bottle @ 4°C Expires 8/3/05 TV = 912

8/3/04
GN(D) Post-digestion Matrix Match - TKN

Same as WC 691577. Exp. 1 month 9/3/04.

8/3/04
cmw(E) 10% Phosphoric Acid - Phenols

Same as WC69137D. Expires 1 year.

8/3/04
cmw(F) Phenols Color Reagent

Same as WC69109F. Expires 1 week 8/10/04

8/3/04
JOT(G) Rec'd Eckard Pharmacy: Mineral Oil

- Same as WC69100C. No Exp

8/4/04
DK(H) Total Sulfur Reagent.

400.00g NaOH (WC 65104A) diluted to 1 L with
DI H₂O (Volumetric flask) Stored in amber
glass jar bottle room temp. Expired 8/4/05

1243

2/04 TCN Distillationcmw Ⓐ 0.25N NaOH

40.0mLs NaOH (WC69074F, EM Lot # 3321) →
2 Liters w/ DI. Make fresh each run.

Ⓑ TCN 10ppm working stock (for LCS/ms/STANDARDS)

1.020 mL TCN Std. Stock #1 (WC69154D), Standardization
WC71016A → 100mL w/ 0.25 NaOH (WC69160A).
Prepare fresh weekly. Store in amber glass @ 4°C.

Ⓒ TCN Low Level LCS:

Add 0.50mL 10ppm working Standard Stock (WC69160B)
to 50mL DI. TV = 0.100ppm. For soils, add 1.0g
Ottawa sand to 50.0mL DI and 0.50mL 10ppm
Standard working stock (WC69160B). TV = 5.0ppm.

Ⓓ TCN High Level LCS:

Add 2.0mL 10ppm Standard working stock (WC69160B)
to 50mL DI. TV = 0.400ppm. For soils, add 1.0g
Ottawa sand to 50mL DI and 2.0mL 10ppm
Standard working stock (WC69160B). TV = 20.0ppm.

Ⓔ TCN Matrix Spike

Add 0.50mLs 10ppm Standard Working Stock (WC69160B)
to 50.0mL sample. TV = 0.100ppm. For soils, 1.0g sample
to 50.0mL DI and 0.50mL 10ppm Standard working
stock (WC69160B). TV = 5.0ppm.

Ⓕ TCN 10ppm Reference Working Stock

Add 1.002mL TCN Ref. Stock #2 (WC69154E) Standardization
WC71016B → 100mLs w/ 0.25N NaOH (WC69160A). Prep fresh
weekly. Store in Amber glass @ 4°C.

Ⓐ TCN
Conc.

0.1

0.

0.3

0.7

0.10

0.0

0.0

0.0

0.

Ⓑ CC

Add
to 9
10 s

cmw 8/2/04

7/21/04

NM

(A) Buffer - NH₃

- same as WC69115 F. Store @ RT. Exp. 1 year {7/21/0

(B) Hypochlorite - NH₃

- 350 mL UPDI

- 350 mL 6% Sodium Hydroxide (WC69098 A)

Prepare fresh each run.

(C) NH₃ Carrier/Diluent

- same as WC69135 E. Prepared solution X 2.

7/22/04

BB

(D) 1000 ppm TCN Stock #1: Standard Stock

To a tared 500 mL volumetric flask add:

• 1.26g KCN (WC55171 D)

• 1.00g KOH (WC55174 A)

• ~ 400 mL DI

Dissolve and bring to volume w/ DI. Store in TCN refrigerator @ 4°C in amber glass. Expires 7/22/05.

(E) 1000 ppm TCN Stock #2: Reference Stock

To a tared 500 mL volumetric flask add:

• 1.26g KCN (WC55171 C)

• 1.00g KOH (WC55174 A)

• ~ 400 mL DI

Dissolve and bring to volume w/ DI. Store in TCN refrigerator @ 4°C in amber glass. Expires 7/22/05.

7/22/04

(F) IOC Standard Stock (1000 ppm)

2.128g KHP (Em WC55103 A) previously dried @ 104°C for 2 hrs. → 1000 mL w/ DI. Store @ RT in amber glass Exp. 1 yr. (7/22/05)

1245

2/2/05 TCN Stock Standardization

83 (A) Std'n of 1000ppm Stock #1 (WC69154D) - Std. Stock
(WC69225T)

Trial #	mLs Stock #1	mLs 0.0192N AgNO_3	- BIK
BIK	0.0	0.04	-
1	5.0	5.15	5.11
2	5.0	5.13	5.09
3	5.0	5.11	5.07

$$\bar{x} = 5.09 \text{ mLs}$$

$$\text{mg/L CN}^- = (5.09 \text{ mL}) (0.0192 \text{ N}) (52) (1000) = 1016.3712 \text{ mg/L}$$

5.0 mL Stock #1

$$\text{Dil'n factor: } \frac{1000}{1016.3712} = 0.984 \text{ mLs} \rightarrow 100 \text{ mL for } 10 \text{ ppm}$$

(B) Std'n of 1000ppm Stock #2 (WC69154E) - Reference Stock

Trial #	mLs Stock #2	mLs 0.0192N AgNO_3	- BIK
BIK	0.0	0.04	-
1	5.0	5.28	5.24
2	5.0	5.27	5.23
3	5.0	5.27	5.23

$$\bar{x} = 5.23 \text{ mLs}$$

$$\text{mg/L CN}^- = (5.23 \text{ mLs}) (0.0192 \text{ N}) (52) (1000) = 1044.3264 \text{ mg/L}$$

5.0 mLs Stock #2

$$\text{Dil'n factor: } \frac{1000}{1044.3264} = 0.958 \text{ mLs} \rightarrow 100 \text{ mL for } 10 \text{ ppm}$$

Continued on Page

Read and Understood By

1246

3/4/05 TCN Stock Standardization

① Std'n of 1000 ppm Stock #1 (WC69154D) - Std Stock

Trial #	mls stock #1	mls 0.0192 AgNO_3	- Blk
Blk	0	0.03	-
1	5.0	5.15	5.12
2	5.0	5.15	5.12
3	5.0	5.15	5.12

$$\bar{x} = 5.12 \text{ mls}$$

$$\text{CN, ng/L} = \frac{(5.12)(0.0192)(52)(1000)}{5} = 1022.3616$$

$$\text{Dil'n factor} = \frac{1000}{1022.3616} = 0.978 \text{ mls} \rightarrow 100 \text{ for 10 ppm}$$

② Std'n of 1000 ppm stock #2 (WC69154E) - Ref Stock

Trial #	mls stock #2	mls 0.0192 AgNO_3	- Blk
Blk	0	0.03	-
1	5.0	5.24	5.21
2	5.0	5.25	5.22
3	5.0	5.25	5.22

$$\bar{x} = 5.22 \text{ mls}$$

$$\text{CN, ng/L} = \frac{(5.22)(0.0192)(52)(1000)}{5} = 1042.3296$$

$$\text{Dil'n factor} = \frac{1000}{1042.3296} = 0.959 \text{ mls} \rightarrow 100 \text{ for 10 ppm}$$

Smp ③ Standardization of Stock Chlorine Sol'n.

$$3/7/05 \quad \frac{(1.91 \text{ mls } \text{Na}_2\text{S}_2\text{O}_3)(0.00564 \text{ N})(35.45)}{5.0}$$

$$= 0.07638 \text{ ng/L} = 76.4 \text{ ng/L}$$

Continued on Page

Read and Understood By

1247

Instrument Detection Limit Study
Columbia Analytical Services
Rochester, NY

IDL Method revised in 9/93 ASP protocol, page G-7: "...multiply by the Students t- value (2.528) the standard deviation obtained for analysis of a standard solution at a concentration of 3-5x the estimated IDL on three days with a minimum of seven measurements per day."

EPA Method # 335.3/9012

Analyte: TCN

Amount used: 0.0200 mg/L

Date	Trial	Result (mg/L)
02/08/05	1	0.01798
	2	0.01742
	3	0.01687
	4	0.01631
	5	0.01687
	6	0.01742
	7	0.01631
	8	0.01831
	9	0.01774
	10	0.01774
	11	0.01831
	12	0.01774
	13	0.01774
	14	0.01774
	15	0.01886
	16	0.01886
	17	0.01830
	18	0.01830
	19	0.01886
	20	0.01886
	21	0.01886

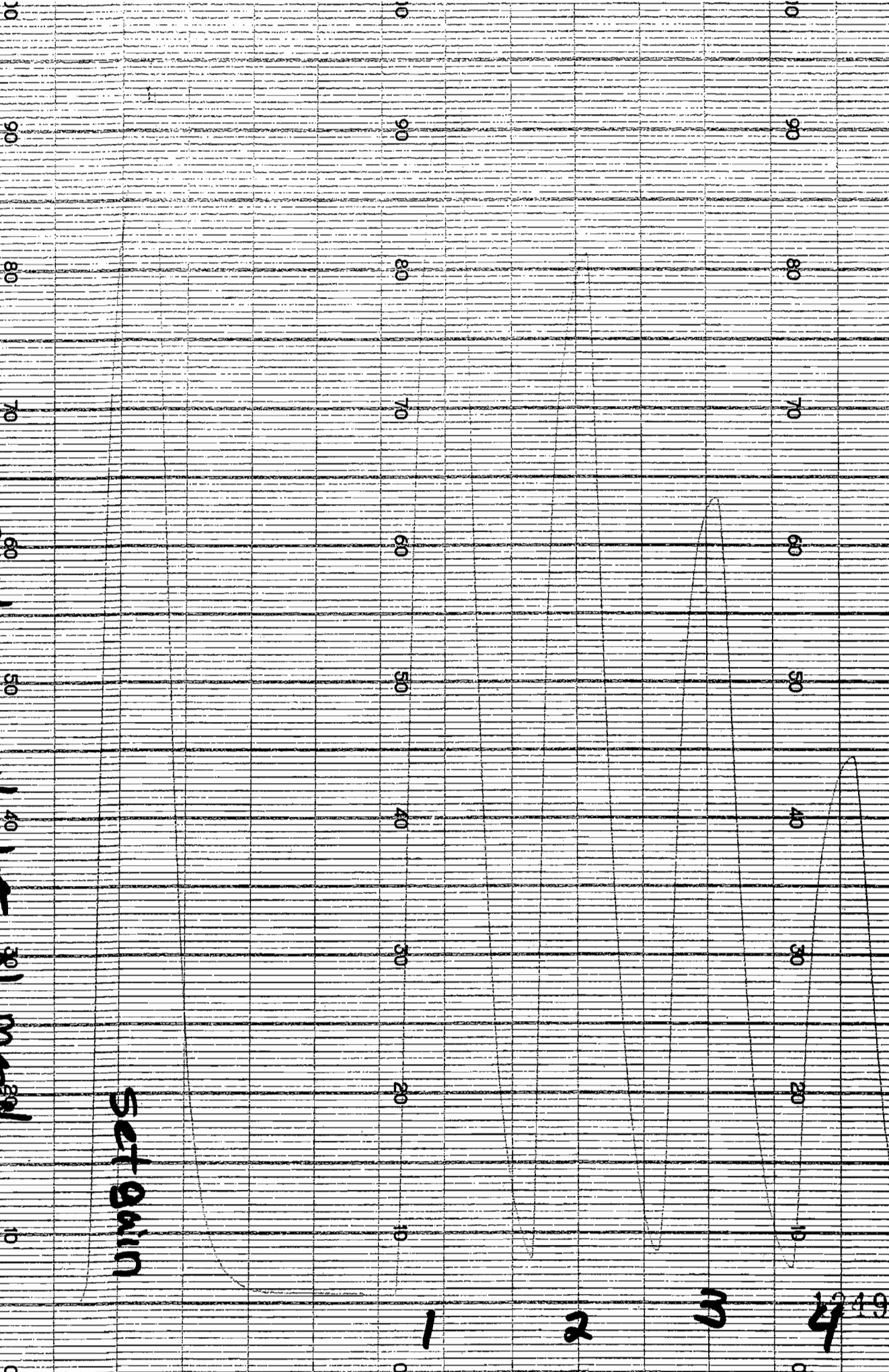
Standard Deviation = 0.00079

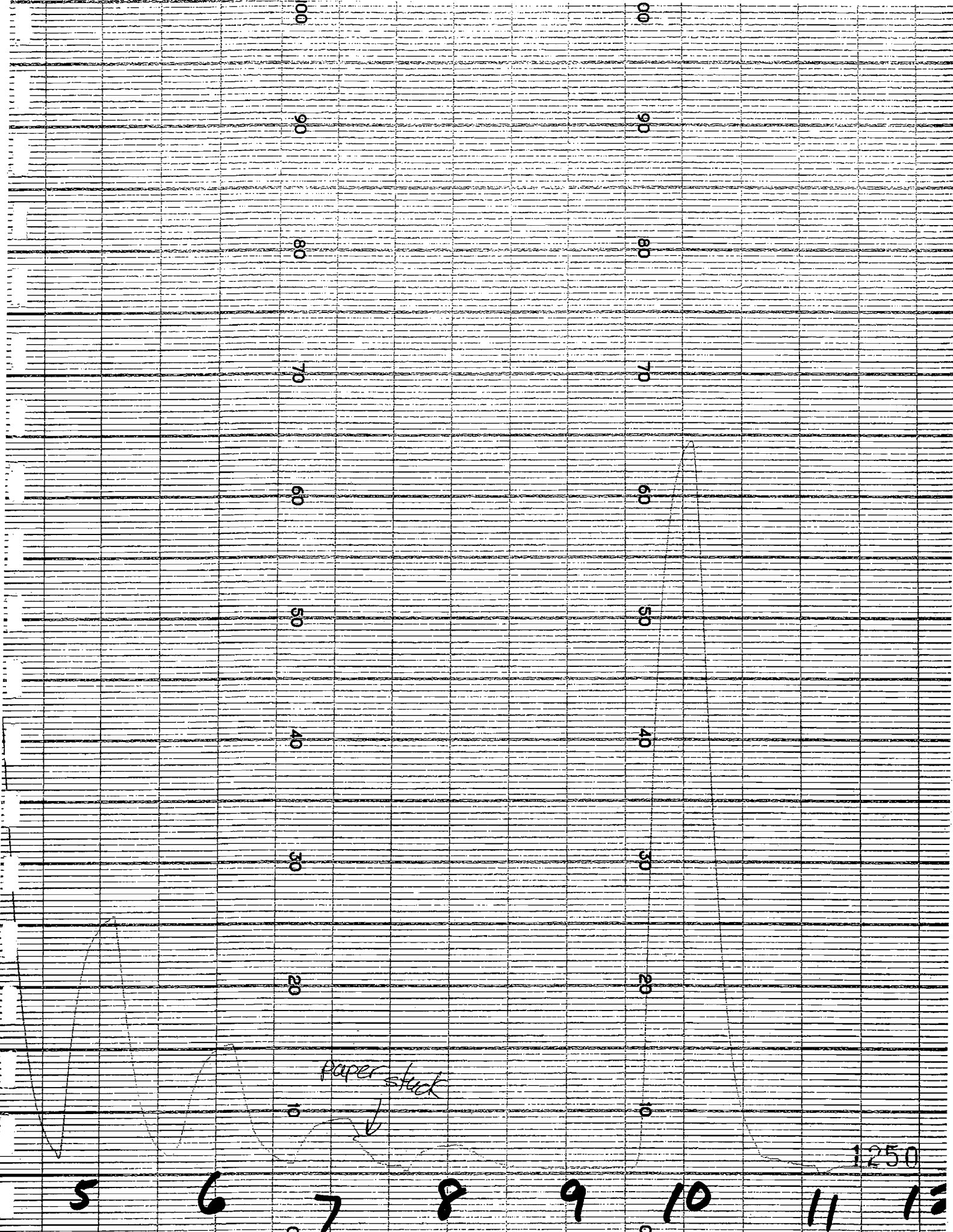
IDL = 0.00079 * 2.528 = 0.001991

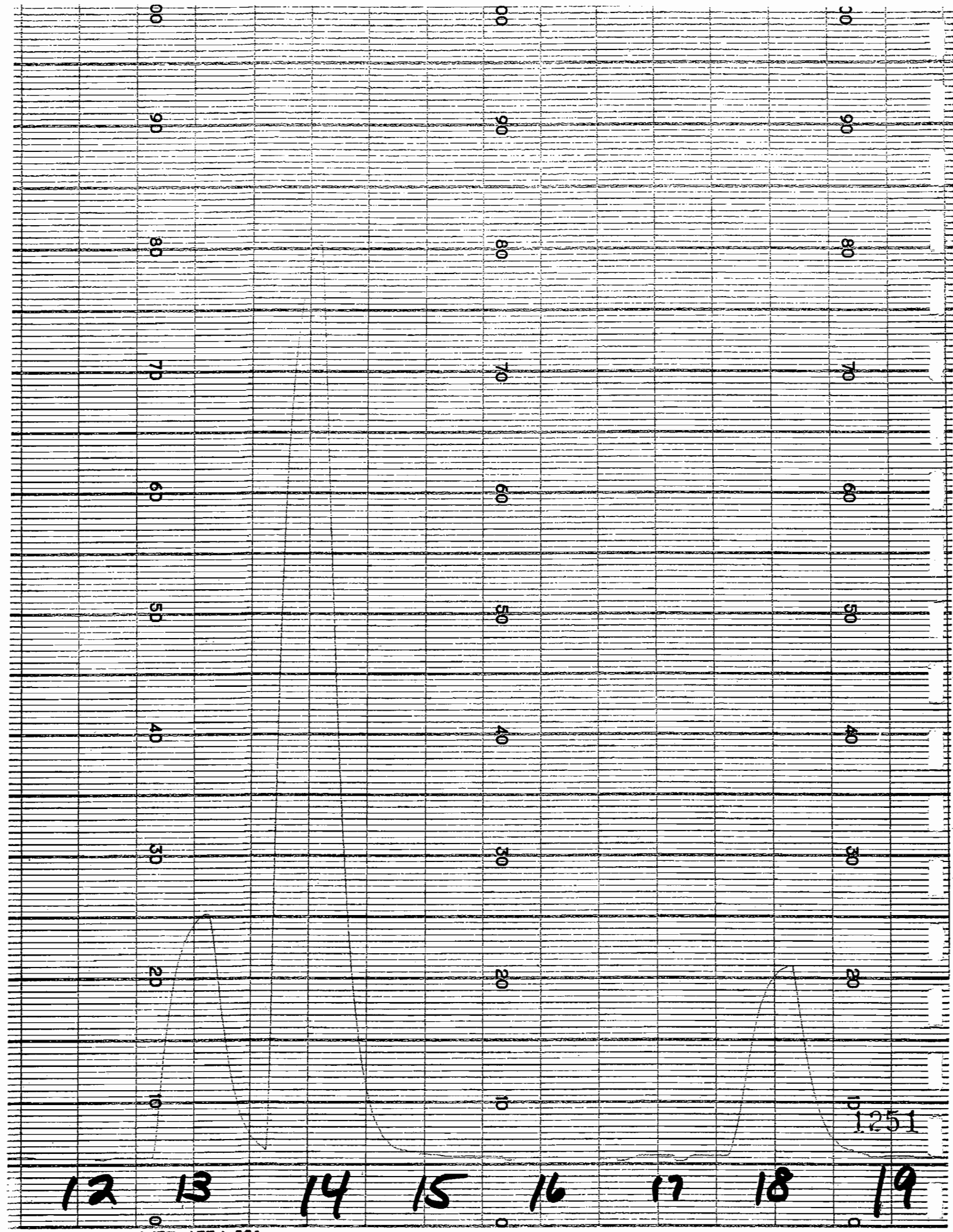
P:\L\1\GREG\MDL\TCN-IDL.WK1

Set gain

TCN
start run: 12:45
4/26/05 N. med







12

13

14

15

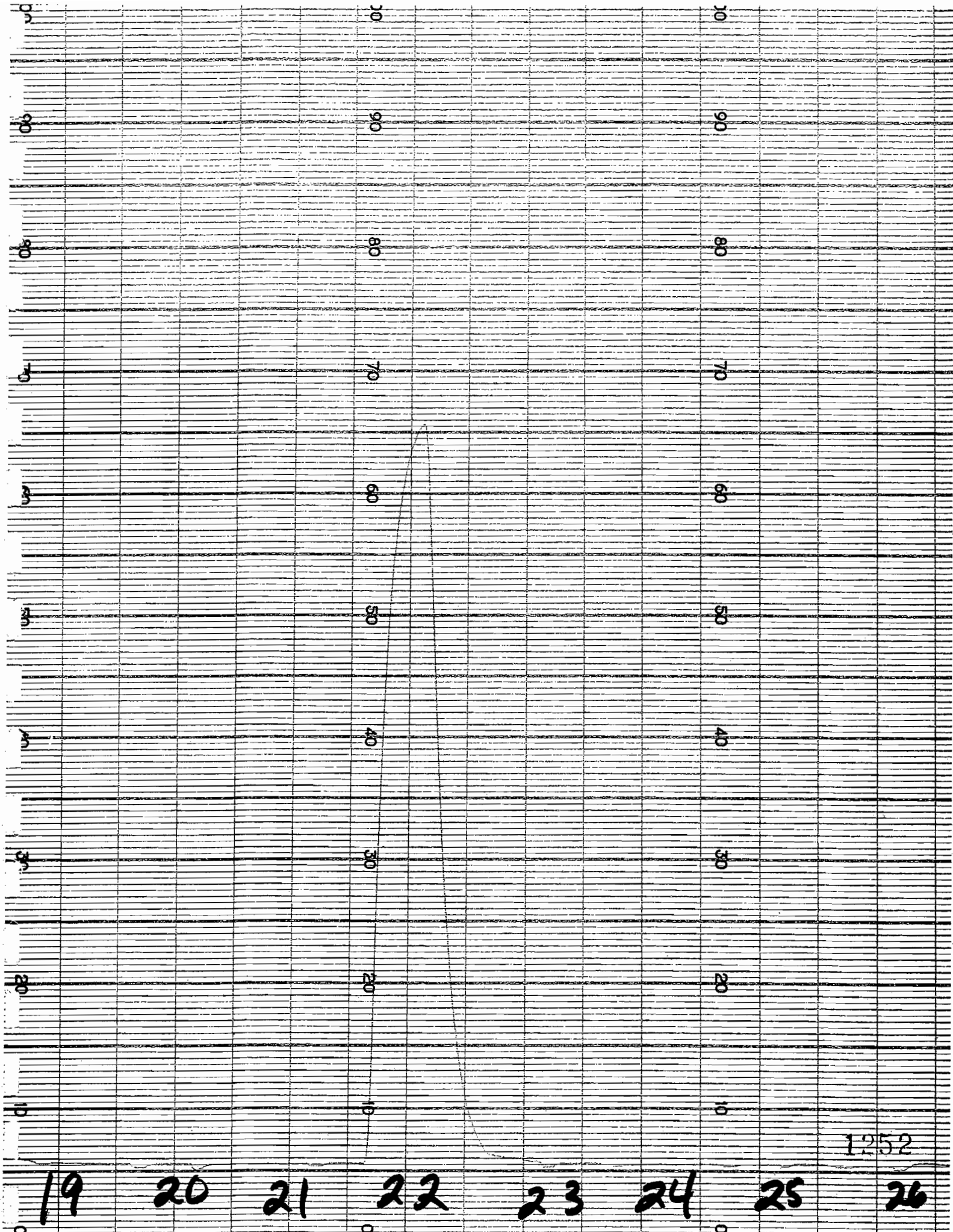
16

17

18

19

1251



1252

00

00

100

90

90

90

80

80

80

70

70

70

60

60

60

50

50

50

40

40

40

30

30

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20

10

10

10

1253

26

27

28

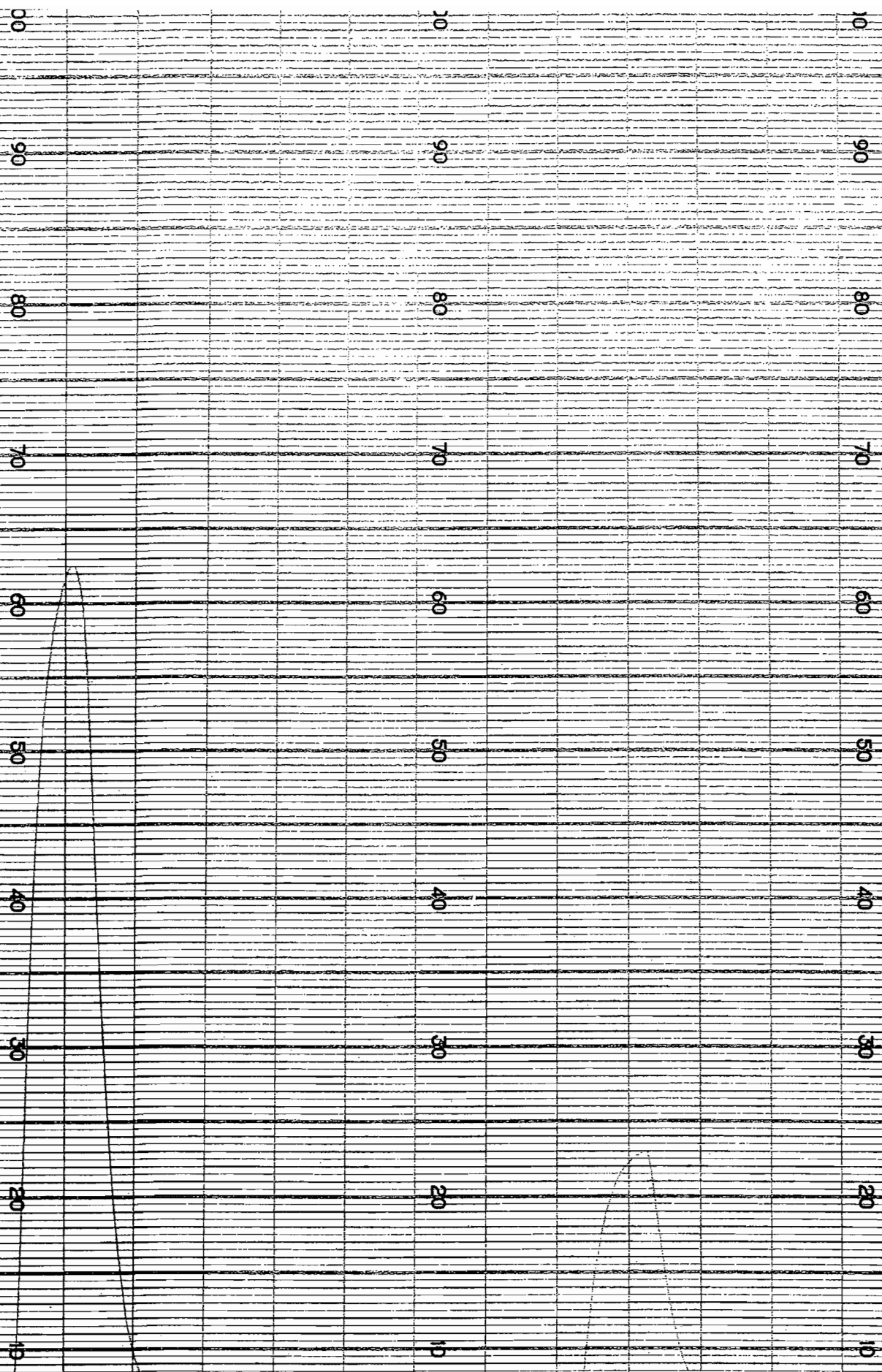
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30

31

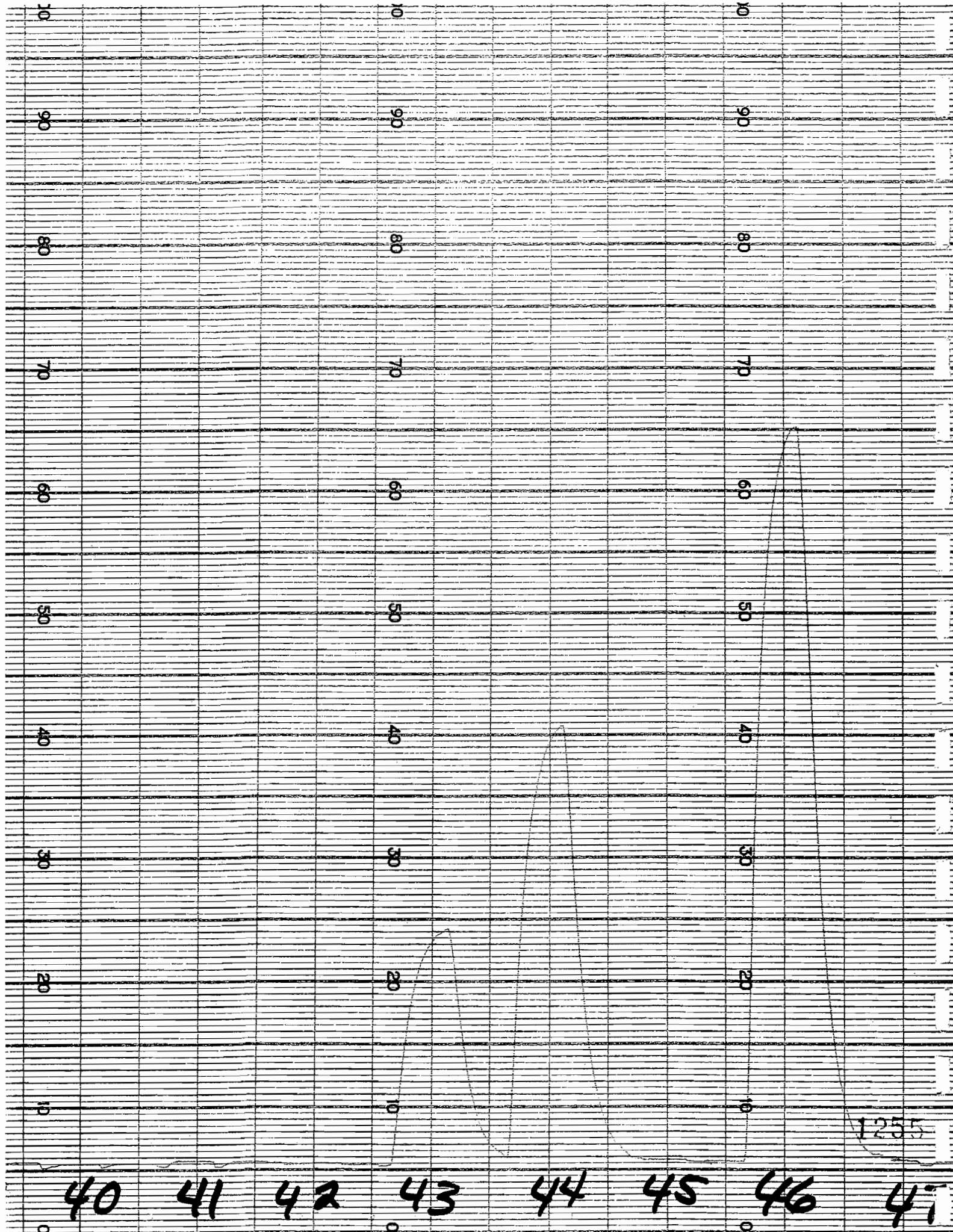
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33

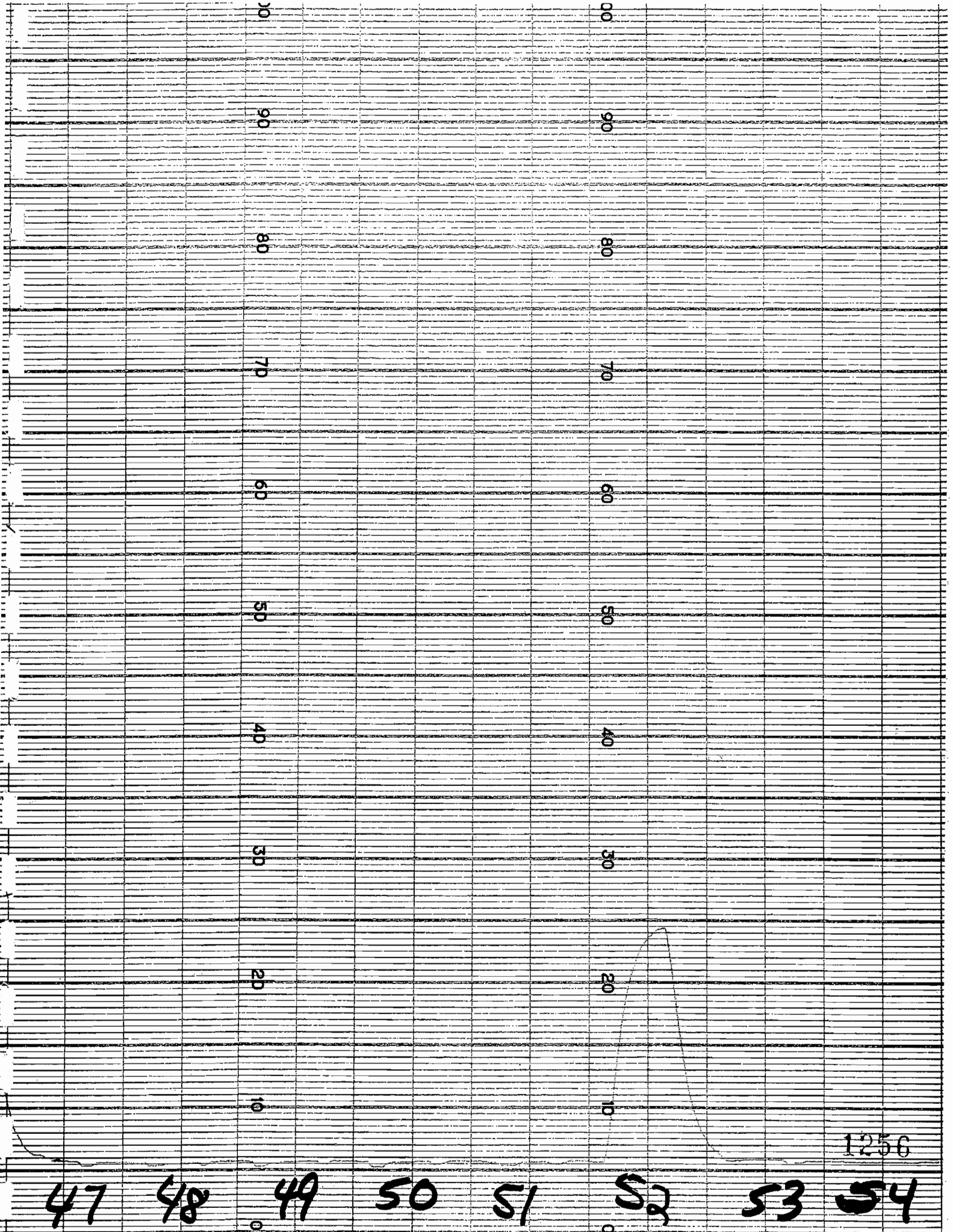


1254

33 34 35 36 37 38 39 40



1255



1256

47 48 49 50 51 52 53 54

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60
50
40
30
20
10

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70
60
50
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40
30
20
10

End run: 14:50

1257

3 54 55 56 57 58 59

**Post Excavation Groundwater Monitoring
Analytical Data Reports**

September 7, 2006

Mr. Gary Stern
Stern Properties
274 North Goodman Street
Rochester, NY 14607

Project: 320 N. Goodman Project# 206101
Submission #: R2633144

Dear Mr. Stern

Enclosed are the results of the analysis requested. Should you have any questions please contact me at (585)288-5380 x130.

Thank you for allowing us to provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES



Carlton R. Beechler
Project Manager

enc.

CC: Dennis Porter
 LaBella Associates
 300 State Street
 Suite 201
 Rochester, NY 14614



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Stern Properties
Project Reference: 320 N. GOODMAN PROJECT# 206101
Lab Submission # : R2633114
Project Manager : Carlton Beechler
Reported : 09/05/06

Report Contains a total of _____ pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael E. Perry*

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Stern Properties
Project: 320 N. Goodman Project# 206101
Sample Matrix: Water

Service Request No.: R2633144
Date Received: 8/9/06

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV, CLP deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Seven water samples were received for analysis at Columbia Analytical Services (CAS) on 8/9/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The dissolved metals sample was filtered upon receipt at CAS. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Dissolved Metals

No analytical or quality control problems were encountered during analysis.

PCB Aroclors by EPA Method 8082

No analytical or quality control problems were encountered during analysis.

Volatile Organic Compounds by EPA Method 8260B

Toluene was detected in sample MW-14R outside the calibration range of the instrument and is flagged with an "E". The sample was reanalyzed at dilution and the compound has been re-flagged with a "D", demonstrating that it is now within the calibration range of the instrument. Both sets of data are reported.

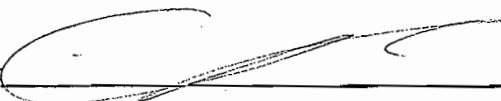
Hits between the MDL and PQL are flagged with a "J" as estimated.

No analytical or quality control problems were encountered during analysis.

Semivolatile Organic Compounds by EPA Method 8270C

No analytical or quality control problems were encountered during analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:

Approved by 

Date 9-7-06

DATE REVISED:
DATE DUE: 9/6/06
PROTOCOL: SW846
SHIPPING No.:

[illegible]



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
West Virginia ID # 292

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)	
320 N. GOODMAN		206101			
Project Manager		Report CC			
MR. GARY STERN		DENNIS PORTER			
Company/Address		LABELLA ASSOC			
THE GARY & MARCIA STERN FAMILY LIMITED PARTNERSHIP					
274 N. GOODMAN ST					
ROCHESTER, NY 14607					
Phone #		FAX #			
442-9061		760-2394			
Sample's Signature		Sample's Printed Name			
Craig A. Stiles		CRAIG A. STILES			
FOR OFFICE USE ONLY		SAMPLING			
LAB ID		DATE		TIME	
MATRIX					
CLIENT SAMPLE ID					
MW-18	928392	928393	8/9/06	1020	GW
MW-14R	928394			1105	
MW-17R	928395			1132	
MW-15R	928396			1200	
MW-16R	928397			1228	
TRIP BLANK	928398			0909	
SPECIAL INSTRUCTIONS/COMMENTS		CUSTODY SEALS: Y N			
Metals - TO BE FILTERED BY LAB		RELINQUISHED BY			
CATEGOR 3 BELIEVABLES		RECEIVED BY			
CC RPT TO : LABELLA ASSOC		RELINQUISHED BY			
ATTN: DENNIS PORTER		RELINQUISHED BY			
300 STATE ST. SUITE 201		RELINQUISHED BY			
ROCHESTER, NY 14614		RELINQUISHED BY			
FAX: 454-3066 PHONE 454-6110		RELINQUISHED BY			
See APP ☐		RELINQUISHED BY			
SAMPLE RECEIPT: CONDITION/COOLER TEMP:		RELINQUISHED BY			
RELINQUISHED BY		RELINQUISHED BY			
Signature		Signature			
CRAIG A. STILES		Signature			
Printed Name		Printed Name			
LABELLA ASSOC		Printed Name			
Firm		Firm			
Date/Time		Date/Time			
8/9/06 @ 1257		8/9/06 1257			

Cooler Receipt And Preservation Check Form

Project/Client Goodman Submission Number R2-33114

Cooler received on 8/9/06 by: 27 COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 5°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 8/9/06 @ 1300

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

PC Secondary Review: 118901

Cooler Breakdown: Date: 8/9/06 by: 27

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
12	NaOH						
2	HNO ₃						
2	H ₂ SO ₄						
Residual Chlorine (+/-)	for TCN & Phenol						
5-9**	P/PCBs (608 only)						

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: 118901 8-10-06

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL/TANK

Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-18

Date Sampled : 08/09/06 10:20 Order #: 928392 Sample Matrix: WATER
 Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133617

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/10/06			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-18

Date Sampled : 08/09/06 10:20 Order #: 928392 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133617

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 08/10/06
ANALYTICAL DILUTION: 1.00

M+P-XYLENE	5.0	5.0 U	UG/L
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SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	109	%
TOLUENE-D8	(88 - 124 %)	105	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-14R

Date Sampled : 08/09/06 11:05 Order #: 928394 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 08/11/06		
ANALYTICAL DILUTION:	4.00		
BENZENE	1.0	4.0 U	UG/L
N-BUTYLBENZENE	5.0	20 U	UG/L
SEC-BUTYLBENZENE	5.0	20 U	UG/L
TERT-BUTYLBENZENE	5.0	20 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	20 U	UG/L
ETHYLBENZENE	5.0	32	UG/L
ISOPROPYL BENZENE	5.0	32	UG/L
P-ISOPROPYLTOLUENE	5.0	20 U	UG/L
NAPHTHALENE	5.0	20 U	UG/L
N-PROPYLBENZENE	5.0	5.4 J	UG/L
TOLUENE	5.0	520 D	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	20 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	20 U	UG/L
O-XYLENE	5.0	33	UG/L
M+P-XYLENE	5.0	190	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	110	%
TOLUENE-D8	(88 - 124 %)	104	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-17R

Date Sampled : 08/09/06 11:32 Order #: 928395 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133617

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 08/10/06		
ANALYTICAL DILUTION:	1.00		
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	2.2 J	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	0.89 J	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	105	%
TOLUENE-D8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-15R

Date Sampled : 08/09/06 12:00 Order #: 928396 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/11/06			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	2.9 J	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	1.3 J	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	9.1	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	10	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	3.1 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	1.8 J	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	2.1 J	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	111	%
TOLUENE-D8	(88 - 124 %)	108	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	104	%

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-16R

Date Sampled : 08/09/06 12:28 Order #: 928397 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/11/06			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	2.1 J	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	1.1 J	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	102	%
TOLUENE-D8	(88 - 124 %)	102	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	97	%

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : TRIP BLANK

Date Sampled, : 08/09/06 09:09 Order #: 928398 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133617

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/10/06			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	23	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : TRIP BLANK

Date Sampled : 08/09/06 09:09 Order #: 928398 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133617

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 08/10/06
ANALYTICAL DILUTION: 1.00

M+P-XYLENE	5.0	5.0 U	UG/L
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SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	107	%
TOLUENE-D8	(88 - 124 %)	105	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-14R

Date Sampled : 08/09/06 11:05 Order #: 928394 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133630

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 08/10/06
ANALYTICAL DILUTION: 1.00

BENZENE	1.0	1.2 J	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	35	UG/L
ISOPROPYL BENZENE	5.0	32	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	4.8 J	UG/L
TOLUENE	5.0	450 E	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	2.9 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	34	UG/L
M+P-XYLENE	5.0	180	UG/L

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	108	%
TOLUENE-D8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL/TANK

Reported: 09/05/06

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :

Order #: 929643

Sample Matrix: WATER

Date Received:

Submission #:

Analytical Run 133617

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/10/06			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 09/05/06

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 929643	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 133617

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 08/10/06
ANALYTICAL DILUTION: 1.00

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	104	%
TOLUENE-D8	(88 - 124 %)	105	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	101	%

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 09/05/06

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 929753	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 133630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/11/06			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	105	%
TOLUENE-D8	(88 - 124 %)	101	%
DIBROMOFLUOROMETHANE	(91 - 115 %)	100	%

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
WATER

Spiked Order No. : 928397 Stern Properties

Client ID: MW-16R

Test: 8260B TANK LIST

Analytical Units: UG/L

Run Number : 133630

ANALYTE	SPIKE	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
	ADDED		FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
BENZENE	50.0	0	55.0	110	53.0	106	4	30	70 - 130	
N-BUTYLBENZENE	50.0	0	46.0	92	47.0	94	2	30	70 - 130	
SEC-BUTYLBENZENE	50.0	0	45.0	90	45.0	90	0	30	70 - 130	
TERT-BUTYLBENZENE	50.0	0	51.0	102	50.0	100	2	30	70 - 130	
METHYL-TERT-BUTYL-ETHER	50.0	2.10	55.0	106	56.0	108	2	30	70 - 130	
ETHYLBENZENE	50.0	0	53.0	106	52.0	104	2	30	70 - 130	
ISOPROPYL BENZENE	50.0	0	50.0	100	50.0	100	0	30	70 - 130	
P-ISOPROPYLTOLUENE	50.0	0	47.0	94	46.0	92	2	30	70 - 130	
NAPHTHALENE	50.0	1.10	55.0	108	57.0	112	4	30	50 - 150	
N-PROPYLBENZENE	50.0	0	50.0	100	50.0	100	0	30	70 - 130	
TOLUENE	50.0	0	53.0	106	50.0	100	6	30	70 - 130	
1,2,4-TRIMETHYLBENZENE	50.0	0	42.0	84	40.0	80	5	30	70 - 130	
1,3,5-TRIMETHYLBENZENE	50.0	0	39.0	78	38.0	76	3	30	70 - 130	
O-XYLENE	50.0	0	48.0	96	48.0	96	0	30	70 - 130	
M+P-XYLENE	100	0	95.0	95	92.0	92	3	30	70 - 130	

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCL/TANKLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 929640

ANALYTICAL RUN #: 133617

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 08/10/06			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	118	50 - 150
BENZENE	20.0	98	70 - 130
BROMODICHLOROMETHANE	20.0	100	70 - 130
BROMOFORM	20.0	99	70 - 130
BROMOMETHANE	20.0	99	50 - 150
2-BUTANONE (MEK)	20.0	112	50 - 150
SEC-BUTYLBENZENE	20.0	89	70 - 130
N-BUTYLBENZENE	20.0	99	70 - 130
TERT-BUTYLBENZENE	20.0	98	70 - 130
CARBON DISULFIDE	20.0	97	70 - 130
CARBON TETRACHLORIDE	20.0	101	70 - 130
CHLOROBENZENE	20.0	98	70 - 130
CHLOROETHANE	20.0	97	70 - 130
CHLOROFORM	20.0	100	70 - 130
CHLOROMETHANE	20.0	95	70 - 130
DIBROMOCHLOROMETHANE	20.0	102	70 - 130
1,1-DICHLOROETHANE	20.0	100	70 - 130
1,2-DICHLOROETHANE	20.0	100	70 - 130
1,1-DICHLOROETHENE	20.0	109	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	104	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	101	70 - 130
1,2-DICHLOROPROPANE	20.0	101	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	106	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	101	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	100	70 - 130
ETHYLBENZENE	20.0	101	70 - 130
2-HEXANONE	20.0	110	70 - 130
ISOPROPYL BENZENE	20.0	95	70 - 130
P-ISOPROPYLTOLUENE	20.0	99	70 - 130
METHYLENE CHLORIDE	20.0	103	70 - 130
NAPHTHALENE	20.0	104	50 - 150
4-METHYL-2-PENTANONE (MIBK)	20.0	109	70 - 130
N-PROPYLBENZENE	20.0	97	70 - 130
STYRENE	20.0	95	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	107	70 - 130
TETRACHLOROETHENE	20.0	96	70 - 130
TOLUENE	20.0	95	70 - 130
1,1,1-TRICHLOROETHANE	20.0	101	70 - 130
1,1,2-TRICHLOROETHANE	20.0	99	70 - 130
TRICHLOROETHENE	20.0	96	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	98	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL/TANK

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 929640 ANALYTICAL RUN #: 133617

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 08/10/06			
ANALYTICAL DILUTION: 1.0			
1,2,4-TRIMETHYLBENZENE	20.0	104	70 - 130
VINYL CHLORIDE	20.0	97	70 - 130
O-XYLENE	20.0	95	70 - 130
M+P-XYLENE	40.0	96	70 - 130

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TANK LISTLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 929754 ANALYTICAL RUN #: 133630

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 08/11/06			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	112	70 - 130
N-BUTYLBENZENE	20.0	115	70 - 130
SEC-BUTYLBENZENE	20.0	106	70 - 130
TERT-BUTYLBENZENE	20.0	112	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	112	70 - 130
ETHYLBENZENE	20.0	112	70 - 130
ISOPROPYL BENZENE	20.0	109	70 - 130
P-ISOPROPYLTOLUENE	20.0	114	70 - 130
NAPHTHALENE	20.0	115	50 - 150
N-PROPYLBENZENE	20.0	110	70 - 130
TOLUENE	20.0	111	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	114	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	114	70 - 130
O-XYLENE	20.0	115	70 - 130
M+P-XYLENE	40.0	110	70 - 130

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8270C STARS LIST SEMIVOLATIL
Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-18

Date Sampled : 08/09/06 10:20 Order #: 928392 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133739

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 08/10/06			
DATE ANALYZED : 08/21/06			
ANALYTICAL DILUTION: 1.05			
ACENAPHTHENE	10	11 U	UG/L
ANTHRACENE	10	11 U	UG/L
BENZO(A) ANTHRACENE	10	11 U	UG/L
BENZO(A) PYRENE	10	11 U	UG/L
BENZO(B) FLUORANTHENE	10	11 U	UG/L
BENZO(G, H, I) PERYLENE	10	11 U	UG/L
BENZO(K) FLUORANTHENE	10	11 U	UG/L
INDENO(1,2,3-CD) PYRENE	10	11 U	UG/L
CHRYSENE	10	11 U	UG/L
DIBENZO(A, H) ANTHRACENE	10	11 U	UG/L
FLUORANTHENE	10	11 U	UG/L
FLUORENE	10	11 U	UG/L
NAPHTHALENE	10	11 U	UG/L
PHENANTHRENE	10	11 U	UG/L
PYRENE	10	11 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	60	%
NITROBENZENE-d5	(38 - 105 %)	83	%
2-FLUOROBIPHENYL	(38 - 100 %)	82	%

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8270C STARS LIST SEMIVOLATIL
Reported: 09/05/06

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 930361	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 133739

ANALYTE	PQL	RESULT	UNITS
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DATE EXTRACTED	:	08/10/06
DATE ANALYZED	:	08/17/06
ANALYTICAL DILUTION:		1.00

ACENAPHTHENE	10	10 U	UG/L
ANTHRACENE	10	10 U	UG/L
BENZO (A) ANTHRACENE	10	10 U	UG/L
BENZO (A) PYRENE	10	10 U	UG/L
BENZO (B) FLUORANTHENE	10	10 U	UG/L
BENZO (G, H, I) PERYLENE	10	10 U	UG/L
BENZO (K) FLUORANTHENE	10	10 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	10 U	UG/L
CHRYSENE	10	10 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	10 U	UG/L
FLUORANTHENE	10	10 U	UG/L
FLUORENE	10	10 U	UG/L
NAPHTHALENE	10	10 U	UG/L
PHENANTHRENE	10	10 U	UG/L
PYRENE	10	10 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	96	%
NITROBENZENE-d5	(38 - 105 %)	82	%
2-FLUOROBIPHENYL	(38 - 100 %)	81	%

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 930362

Dup Spiked Order No. : 930363

Client ID:

Test: 8270C STARS LIST SEMIVOLATILES

Analytical Units: UG/L

Run Number : 133739

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.				QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
ACENAPHTHENE	100	0	87.0	87	87.0	87	0	31	41 - 121	
ANTHRACENE	100	0	91.0	91	91.0	91	0	30	73 - 130	
BENZO (A) ANTHRACENE	100	0	93.0	93	93.0	93	0	30	71 - 130	
BENZO (A) PYRENE	100	0	93.0	93	95.0	95	2	30	61 - 119	
BENZO (B) FLUORANTHENE	100	0	96.0	96	95.0	95	1	30	68 - 130	
BENZO (G, H, I) PERYLENE	100	0	97.0	97	99.0	99	2	30	50 - 125	
BENZO (K) FLUORANTHENE	100	0	96.0	96	96.0	96	0	30	68 - 113	
INDENO (1, 2, 3-CD) PYRENE	100	0	94.0	94	96.0	96	2	30	70 - 130	
CHRYSENE	100	0	93.0	93	93.0	93	0	30	61 - 119	
DIBENZO (A, H) ANTHRACENE	100	0	100	100	100	100	0	30	70 - 130	
FLUORANTHENE	100	0	91.0	91	90.0	90	1	30	75 - 130	
FLUORENE	100	0	92.0	92	91.0	91	1	30	60 - 111	
NAPHTHALENE	100	0	74.0	74	72.0	72	3	30	26 - 109	
PHENANTHRENE	100	0	93.0	93	93.0	93	0	30	68 - 130	
PYRENE	100	0	92.0	92	93.0	93	1	31	60 - 130	

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 09/05/06

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT# 206101

Client Sample ID : MW-18

Date Sampled : 08/09/06 10:20 Order #: 928392 Sample Matrix: WATER
Date Received: 08/09/06 Submission #: R2633114 Analytical Run 133816

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 08/15/06			
DATE ANALYZED : 08/21/06			
ANALYTICAL DILUTION: 1.00			
PCB 1016	1.0	1.0 U	UG/L
PCB 1221	2.0	2.0 U	UG/L
PCB 1232	1.0	1.0 U	UG/L
PCB 1242	1.0	1.0 U	UG/L
PCB 1248	1.0	1.0 U	UG/L
PCB 1254	1.0	1.0 U	UG/L
PCB 1260	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(10 - 144 %)	12	%
TETRACHLORO-META-XYLENE	(28 - 119 %)	43	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 09/05/06

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 930858	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 133816

ANALYTE	PQL	RESULT	UNITS
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DATE EXTRACTED	: 08/15/06
DATE ANALYZED	: 08/21/06
ANALYTICAL DILUTION:	1.00

PCB 1016	1.0	1.0 U	UG/L
PCB 1221	2.0	2.0 U	UG/L
PCB 1232	1.0	1.0 U	UG/L
PCB 1242	1.0	1.0 U	UG/L
PCB 1248	1.0	1.0 U	UG/L
PCB 1254	1.0	1.0 U	UG/L
PCB 1260	1.0	1.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(10 - 144 %)	56	%
TETRACHLORO-META-XYLENE	(28 - 119 %)	43	%

UMBIA ANALYTICAL SERVICES

ALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
 WATER

Spiked Order No. : 930859

Dup Spiked Order No. : 930860

Client ID:

Test: 8082 PCB'S

Analytical Units: UG/L

Run Number : 133816

ANALYTE	SPIKE	SAMPLE	BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS	
	ADDED	CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.
PCB 1260	5.0	0	4.20	84	4.20	84	0	30	57 - 136

METALS
COVER PAGE - INORGANIC ANALYSES DATA PACKAGEContract: R2633114SDG No.: 928392

Lab Code:

Case No.:

SAS No.:

S W No.: SW846 CLP-MClient: Stern PropertiesSample No.Lab Sample ID.MW-18928393

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YESIf yes-were raw data generated before
application of background corrections?Yes/No NOComments: See Attached Case Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Michael F. Perry

Name:

Michael F. Perry

Date:

9/7/06

Title:

Laboratory Manager30

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-18

Contract: R2633114

Lab Code:

Case No.:

SAS No.:

SDG NO.: 928392

Matrix (soil/water): WATER

Lab Sample ID: 928393

Level (low/med): LOW

Date Received: 08/09/06

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	72.0			P
7440-43-9	Cadmium	5.0	U		P
7440-47-3	Chromium	10.0	U		P
7439-92-1	Lead	5.0	U		P
7439-97-6	Mercury	0.20	U		CV
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-3-

BLANKS

Contract: R2633114

Code:

Case No.:

SAS No.:

SDG NO.: 928392

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)						Preparation Blank	C	M
			1	C	2	C	3	C			
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Barium	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Lead	5.0	U	5.0	U	5.0	U	5.0	U	6.182		P
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.200	U	CV
Selenium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Silver	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P

METALS

-3-

BLANKS

Contract: R2633114

Lab Code:

Case No.:

SAS No.:

SDG NO.: 928392

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)						Preparation Blank	C	M
			1	C	2	C	3	C			
Arsenic			10.0	U	10.0	U					P
Barium			20.0	U	20.0	U					P
Cadmium			5.0	U	5.0	U					P
Chromium			10.0	U	10.0	U					P
Lead			5.0	U	5.0	U					P
Selenium			10.0	U	10.0	U					P
Silver			10.0	U	10.0	U					P

December 14, 2006

Mr. Gary Stern
Stern Properties
274 North Goodman Street
Rochester, NY 14607

Received By
LaBella Associates, P.C.

DEC 18 2006

Client: _____

Proj.#: _____

Project: 320 N. Goodman Project# 206101
Submission #: R2634922

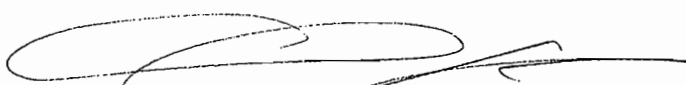
Dear Mr. Stern

Enclosed are the results of the analysis requested. Should you have any questions please contact me at (585)288-5380 x130.

Thank you for allowing us to provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES



Carlton R. Beechler
Project Manager

enc.

CC: Dennis Porter
LaBella Associates
300 State Street
Suite 201
Rochester, NY 14614



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Stern Properties
Project Reference: 320 NORTH GOODMAN
Lab Submission # : R2634922
Project Manager : Carlton Beechler
Reported : 12/13/06

Report Contains a total of 16 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K. Perry*

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Stern Properties
Project: 320 North Goodman
Sample Matrix: Water

Service Request No.: R2634922
Date Received: 11/27/06

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV, CLP deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Four samples and one trip blank were received for analysis at Columbia Analytical Services on 11/27/06. The following discrepancy was noted upon initial sample inspection: The samples were received at a temperature over 6°C. As per instructions from Craig Stiles, all samples were to be tested, despite thermal preservation issues. This exception is also noted on the cooler receipt and preservation form included in this data package. Otherwise, the samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

Toluene was detected in sample MW-14R outside the calibration range of the instrument and is flagged with an "E". The sample was reanalyzed at dilution and the compound has been re-flagged with a "D", demonstrating that it is now within the calibration range of the instrument. Both sets of data are reported.

Hits between the MDL and PQL are flagged with a "J" as estimated.

No analytical or quality control problems were encountered during analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:

Approved by



Date

12/14/06

SDG #: 959482
SUBMISSION R2634922
CLIENT: Stern Properties
CLIENT REP: Carlton Beechler
PROJECT: 320 NORTH GOODMAN

BATCH COMPLETE: yes
DISKETTE REQUESTED: Y X N
DATE: 11/29/06
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:

DATE REVISED:
DATE DUE: 12/22/06
PROTOCOL: SW846
SHIPPING No.:

[illegible]



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).
- Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is $\geq 100\%$ difference for the detected concentrations between the two GC columns.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

Client Name	Project Number	Report CC	Analyst	Matrix	Sample ID	Sampling Date	Sampling Time	Matrix	Number of Containers	Preservative	Analysis Requested (Include Method Number and Container Preservative)
320 N. Goodman	206101	Report CC	Dennis Porter (LaBella)	Water	759482	10/21/06	1140	Water	3	GC/MS VOAS	
206101	206101	Report CC	Dennis Porter (LaBella)	Water	759482	10/21/06	1200	Water	3	GC/MS VOAS	
206101	206101	Report CC	Dennis Porter (LaBella)	Water	759482	10/21/06	1154	Water	3	GC/MS VOAS	
206101	206101	Report CC	Dennis Porter (LaBella)	Water	759482	10/21/06	1146	Water	3	GC/MS VOAS	
206101	206101	Report CC	Dennis Porter (LaBella)	Water	759482	10/21/06	0930	Water	3	GC/MS VOAS	
Special Instructions/Comments: Copy data package to: Mr. Dennis Porter c/o LaBella Associates 300 State St Rochester, NY 14614 Collection date is 11/27/06 to 12/1/06 per Client request											

Cooler Receipt And Preservation Check Form

Project/Client Stern Properties Submission Number R2-34922

Cooler received on 11/27/06 by: RC COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 9°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below

No No No No No

Date/Time Temperatures Taken: 11/27/06 @ 1710

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples OK to test for Craig Jiles

PC Secondary Review: 11/29/06

Cooler Breakdown: Date: 11/29/06 by: RC

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
≥12	NaOH						
≥2	HNO ₃						
≥2	H ₂ SO ₄						
Residual Chlorine (+/-) for TCN & Phenol							

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH _____

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: 11/30/06

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 12/13/06

Stern Properties

Project Reference: 320 NORTH GOODMAN

Client Sample ID : MW-14R

Date Sampled : 11/27/06 11:40 Order #: 959482 Sample Matrix: WATER
Date Received: 11/27/06 Submission #: R2634922 Analytical Run 138142

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/29/06			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.1	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	60	UG/L
ISOPROPYL BENZENE	5.0	27	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.3	UG/L
TOLUENE	5.0	260 E	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	2.9 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	1.0 J	UG/L
O-XYLENE	5.0	44	UG/L
M+P-XYLENE	5.0	260	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	105	%
TOLUENE-D8	(88 - 124 %)	96	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	92	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 12/13/06

Stern Properties

Project Reference: 320 NORTH GOODMAN

Client Sample ID : MW-14R

Date Sampled : 11/27/06 11:40 Order #: 959482 Sample Matrix: WATER
Date Received: 11/27/06 Submission #: R2634922 Analytical Run 138142

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 12/01/06			
ANALYTICAL DILUTION: 2.00			
BENZENE	1.0	1.2 J	UG/L
N-BUTYLBENZENE	5.0	10 U	UG/L
SEC-BUTYLBENZENE	5.0	10 U	UG/L
TERT-BUTYLBENZENE	5.0	10 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	10 U	UG/L
ETHYLBENZENE	5.0	66	UG/L
ISOPROPYL BENZENE	5.0	30	UG/L
P-ISOPROPYLTOLUENE	5.0	10 U	UG/L
NAPHTHALENE	5.0	10 U	UG/L
N-PROPYLBENZENE	5.0	5.7 J	UG/L
TOLUENE	5.0	300 D	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	2.8 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	10 U	UG/L
O-XYLENE	5.0	53	UG/L
M+P-XYLENE	5.0	320	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	104	%
TOLUENE-D8	(88 - 124 %)	101	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	93	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 12/13/06

Stern Properties
Project Reference: 320 NORTH GOODMAN
Client Sample ID : MW-15R

Date Sampled : 11/27/06 12:00 Order #: 959483 Sample Matrix: WATER
Date Received: 11/27/06 Submission #: R2634922 Analytical Run 138141

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/29/06			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	1.1 J	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	7.4	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	7.5	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	1.6 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	0.99 J	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	104	%
TOLUENE-D8	(88 - 124 %)	102	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	95	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TANK LIST

Reported: 12/13/06

Stern Properties

Project Reference: 320 NORTH GOODMAN

Client Sample ID : MW-16R

Date Sampled : 11/27/06 11:54 Order #: 959484 Sample Matrix: WATER
Date Received: 11/27/06 Submission #: R2634922 Analytical Run 138141

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/29/06			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	1.9 J	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	102	%
TOLUENE-D8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	94	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 12/13/06

Stern Properties
Project Reference: 320 NORTH GOODMAN
Client Sample ID : MW-17R

Date Sampled : 11/27/06 11:46 Order #: 959485 Sample Matrix: WATER
Date Received: 11/27/06 Submission #: R2634922 Analytical Run 138141

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 11/29/06		
ANALYTICAL DILUTION:	1.00		
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	1.6 J	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	103	%
TOLUENE-D8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	93	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 12/13/06

Stern Properties

Project Reference: 320 NORTH GOODMAN

Client Sample ID : TRIP BLANK

Date Sampled : 11/27/06 09:30 Order #: 959486 Sample Matrix: WATER
Date Received: 11/27/06 Submission #: R2634922 Analytical Run 138141

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 11/29/06		
ANALYTICAL DILUTION:	1.00		
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	102	%
TOLUENE-D8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	94	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 12/13/06

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 960598	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 138141

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/29/06			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
ERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	101	%
TOLUENE-D8	(88 - 124 %)	102	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	94	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 12/13/06

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 960602 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 138142

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 12/01/06		
ANALYTICAL DILUTION:	1.00		
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	102	%
TOLUENE-D8	(88 - 124 %)	102	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	96	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TANK LIST

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 960599 ANALYTICAL RUN #: 138141

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 11/29/06			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	100	70 - 130
ISOBUTYLBENZENE	20.0	76	70 - 130
SEC-BUTYLBENZENE	20.0	80	70 - 130
TERT-BUTYLBENZENE	20.0	91	70 - 130
DIETHYL-TERT-BUTYL-ETHER	20.0	100	70 - 130
ETHYLBENZENE	20.0	101	70 - 130
ISOPROPYL BENZENE	20.0	93	70 - 130
p-ISOPROPYLTOLUENE	20.0	83	70 - 130
1,4-NAPHTHALENE	20.0	85	50 - 150
N-PROPYLBENZENE	20.0	96	70 - 130
TOLUENE	20.0	103	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	88	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	89	70 - 130
O-XYLENE	20.0	95	70 - 130
m,p-XYLENE	40.0	97	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TANK LIST

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 960603

ANALYTICAL RUN # : 138142

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 12/01/06			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	99	70 - 130
N-BUTYLBENZENE	20.0	79	70 - 130
SEC-BUTYLBENZENE	20.0	81	70 - 130
TERT-BUTYLBENZENE	20.0	91	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	108	70 - 130
ETHYLBENZENE	20.0	101	70 - 130
ISOPROPYL BENZENE	20.0	93	70 - 130
P-ISOPROPYLTOLUENE	20.0	83	70 - 130
NAPHTHALENE	20.0	84	50 - 150
N-PROPYLBENZENE	20.0	90	70 - 130
TOLUENE	20.0	103	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	92	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	92	70 - 130
O-XYLENE	20.0	95	70 - 130
M+P-XYLENE	40.0	98	70 - 130

March 20, 2007

Mr. Gary Stern
Stern Properties
274 North Goodman Street
Rochester, NY 14607

Re: Project: 320 N. Goodman Project#206101
Submission #R2736311

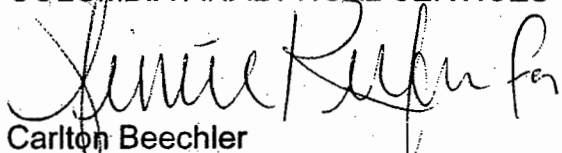
Dear Mr. Gary Stern:

Enclosed is an analytical data report for the above referenced facility. A total of five water samples and one Trip Blank were received by our laboratory February 22nd, 2007.

Any problems encountered with this project are addressed in a case narrative section, which is presented later in this report.

This report consists of two (2) packages: the sample data package and data summary package. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Sincerely,
COLUMBIA ANALYTICAL SERVICES



Carlton Beechler
Project Chemist

CC Mr. Dennis Porter
LaBella Associates
300 State St. Suite 201
Rochester, NY 146114

enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Stern Properties
Project Reference: 320 N. GOODMAN PROJECT #206101
Lab Submission # : R2736311
Project Manager : Carlton Beechler
Reported : 03/16/07

Report Contains a total of 39 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael E. King*

CASE NARRATIVE
COMPANY: Stern Properties
320 N. Goodman Street #206101
SUBMISSION #: R2736311

Stern samples were collected on 02/22/07 and received at CAS on 02/22/07 in good condition.

INORGANICS

One water sample was analyzed for TAL metals by method 6010B/7470A.

Site specific QC was not requested for these samples. All Blank spike recoveries were within limits.

All Laboratory Blanks were free of contamination.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

Three water samples were analyzed for the STARS list of Volatiles by method 8260B from SW-846. One water sample and one Trip Blank were analyzed for the TCL+STARS list of Volatiles by method 8260B from SW-846.

All tuning criteria for BFB were met.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within acceptance limits for all samples.

Site specific QC was not requested for these samples. All Reference spike recoveries were within limits.

The Laboratory Blanks associated with these analyses were free of contamination.

For sample MW-17R Toluene exceeded the calibration range of the instrument and has been "E" flagged accordingly. The sample was diluted and re-analyzed to bring the over-range compound into the calibrated range of the instrument. Toluene was identified in the dilution and has been "D" flagged accordingly.

All results between the MDL and PQL have been "J" flagged as estimated.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

One water sample was analyzed for the STARS list of Semivolatiles by method 8270C.

All tuning criteria for DFTPP were met.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within limits except Nitrobenzene-d5 and 2-Fluorobiphenyl for sample MW-18 were outside limits low. The sample was re-analyzed to confirm the low surrogate recoveries since no sample was available for re-extraction. All outlying QC has been flagged as "**".

Site specific QC was not requested for these samples. All Blank Spike/Blank Spike duplicate recoveries were within limits. All RPD's were within limits.

The Laboratory Blank associated with these analyses was free of contamination.

All results between the MDL and PQL have been "J" flagged as estimated.

No other analytical or QC problems were encountered.

PCB'S

One water sample was analyzed for PCB's by methods 8082 from SW-846.

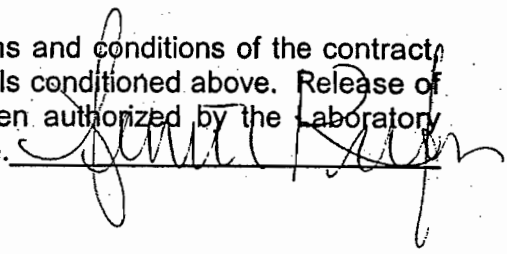
All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within limits.

Site specific QC was not requested for these samples. All Blank Spike/Blank Spike Duplicate recoveries were within limits. All RPD's were within limits.

The Laboratory Blank associated with these analyses was free of contamination.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. 

[illegible]



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).
- Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is $\geq 100\%$ difference for the detected concentrations between the two GC columns.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AF" for Automated Cold Vapor Atomic Fluorescence Spectrometry
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1 CAS Contact

Client Information Name: <u>20 N. GOODMAN</u> Manager: <u>MR. DENNIS PORTER</u> Address: <u>MR. GARY STERN</u> <u>MR. GARY & MARCIA STERN FAMILY LIMITED PARTNERSHIP</u> <u>274 N. GOODMAN ST</u> <u>ROCHESTER, NY 14607</u> Phone: <u>442-9061</u> Fax: <u>760-2394</u> Client Signature: <u>[Signature]</u> Sampler's Printed Name: <u>CRAIG A. STILES</u>		Project Information Project Number: <u>206101</u> Report CC: <u>MR. GARY STERN</u> Matrix: <u>GW</u>	
Analysis Requested (Include Method Number and Container Preservative)		Turnaround Requirements RUSH (SURCHARGES APPLY) 24 hr ☐ 48 hr ☐ 5 day ☐ STANDARD ☒ REQUESTED FAX DATE: _____ REQUESTED REPORT DATE: _____	
Preservative 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____		Report Requirements I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) _____ III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ V. Specialized Forms / Custom Report _____ Edata Yes ☐ No ☐	
RECEIVED BY Signature: <u>[Signature]</u> Printed Name: <u>CRAIG A. STILES</u> Firm: <u>LABELLA ASSOC.</u> Date/Time: <u>2-22-07 1413</u>		RECEIVED BY Signature: <u>[Signature]</u> Printed Name: <u>CRAIG A. STILES</u> Firm: <u>LABELLA ASSOC.</u> Date/Time: <u>2-22-07 1413</u>	
RECEIVED BY Signature: <u>[Signature]</u> Printed Name: <u>CRAIG A. STILES</u> Firm: <u>LABELLA ASSOC.</u> Date/Time: <u>2-22-07 1413</u>		RECEIVED BY Signature: <u>[Signature]</u> Printed Name: <u>CRAIG A. STILES</u> Firm: <u>LABELLA ASSOC.</u> Date/Time: <u>2-22-07 1413</u>	

SPECIAL INSTRUCTIONS/COMMENTS
 Category B Deliverables
 Cc: Report to
 LABELLA ASSOCIATES
 ATTN: DENNIS PORTER
 300 STATE ST, SUITE 201
 ROCHESTER, NY 14604

INVOICE INFORMATION
 PO# _____
 BILL TO:
 THE GARY & MARCIA STERN FAMILY LIMITED PARTNERSHIP
 SUBMISSION #: 22236311
 RECEIVED BY _____

Cooler Receipt And Preservation Check Form

Project/Client Stern Submission Number R2-36311

Cooler received on 2/22/07 by: UNC COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 9°C

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 2/22/07 1420

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples 4 hr rule

PC Secondary Review: unc 2/22/07

Cooler Breakdown: Date: 2/22/07 by: RJ

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
≥12	NaOH						
≤2	HNO ₃	✓					
≤2	H ₂ SO ₄						
Residual Chlorine (+/-)	for TCN & Phenol						

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH _____

VOC Vial pH Verification
(Tested after Analysis)
Following Samples
Exhibited pH > 2

Other Comments:

PC Secondary Review: CR 3/6/07

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-18

Date Sampled : 02/22/07 13:25 Order #: 980101 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141502

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/23/07			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	23	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-18

Date Sampled : 02/22/07 13:25 Order #: 980101 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141502

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 02/23/07
ANALYTICAL DILUTION: 1.00

M+P-XYLENE	5.0	0.43 J	UG/L
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SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	87	%
TOLUENE-D8	(88 - 124 %)	91	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	96	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL/TANK

Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : TRIP BLANK

Date Sampled : 02/22/07

Order #: 980106

Sample Matrix: WATER

Date Received: 02/22/07

Submission #: R2736311

Analytical Run 141717

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
~	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : TRIP BLANK

Date Sampled : 02/22/07 Order #: 980106 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141717

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 02/27/07
ANALYTICAL DILUTION: 1.00

M+P-XYLENE	5.0	5.0 U	UG/L
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SURROGATE RECOVERIES	QC LIMITS
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4-BROMOFLUOROBENZENE	(80 - 123 %)	99	%
TOLUENE-D8	(88 - 124 %)	101	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TANK LIST

Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-14R

Date Sampled : 02/22/07 11:25 Order #: 980103 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141717

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 5.00			
BENZENE	1.0	1.6 J	UG/L
N-BUTYLBENZENE	5.0	25 U	UG/L
SEC-BUTYLBENZENE	5.0	25 U	UG/L
TERT-BUTYLBENZENE	5.0	25 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	25 U	UG/L
ETHYLBENZENE	5.0	150	UG/L
ISOPROPYL BENZENE	5.0	42	UG/L
P-ISOPROPYLTOLUENE	5.0	25 U	UG/L
NAPHTHALENE	5.0	25 U	UG/L
N-PROPYLBENZENE	5.0	9.3 J	UG/L
TOLUENE	5.0	640	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	6.4 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	3.0 J	UG/L
O-XYLENE	5.0	120	UG/L
M+P-XYLENE	5.0	650	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	104	%
TOLUENE-D8	(88 - 124 %)	103	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	106	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-15R

Date Sampled : 02/22/07 12:15 Order #: 980104 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141717

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.6	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	0.51 J	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	0.39 J	UG/L
ETHYLBENZENE	5.0	1.4 J	UG/L
ISOPROPYL BENZENE	5.0	3.9 J	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	2.7 J	UG/L
TOLUENE	5.0	86	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	1.3 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	0.74 J	UG/L
O-XYLENE	5.0	1.7 J	UG/L
M+P-XYLENE	5.0	26	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	99	%
TOLUENE-D8	(88 - 124 %)	105	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TANK LIST

Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-17R

Date Sampled : 02/22/07 12:50 Order #: 980105 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141502

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/23/07			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	3.1	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	6.4	UG/L
ISOPROPYL BENZENE	5.0	5.3	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	1.1 J	UG/L
TOLUENE	5.0	210 E	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	1.4 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	0.50 J	UG/L
O-XYLENE	5.0	8.2	UG/L
M+P-XYLENE	5.0	110	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	89	%
TOLUENE-D8	(88 - 124 %)	91	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TANK LIST

Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-17R

Date Sampled : 02/22/07 12:50 Order #: 980105 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141502

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 2.00			
BENZENE	1.0	2.3	UG/L
N-BUTYLBENZENE	5.0	10 U	UG/L
SEC-BUTYLBENZENE	5.0	10 U	UG/L
TERT-BUTYLBENZENE	5.0	10 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	10 U	UG/L
ETHYLBENZENE	5.0	5.3 J	UG/L
ISOPROPYL BENZENE	5.0	4.5 J	UG/L
P-ISOPROPYLTOLUENE	5.0	10 U	UG/L
NAPHTHALENE	5.0	10 U	UG/L
N-PROPYLBENZENE	5.0	1.0 J	UG/L
TOLUENE	5.0	160 D	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	1.1 J	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	10 U	UG/L
O-XYLENE	5.0	6.5 J	UG/L
M+P-XYLENE	5.0	81	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	98	%
TOLUENE-D8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 03/16/07

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 982843 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 141502

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/23/07			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 03/16/07

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 982843	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 141502

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/23/07			
ANALYTICAL DILUTION: 1.00			

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	89	%
TOLUENE-D8	(88 - 124 %)	90	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	91	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 03/16/07

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 985173	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 141502

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/23/07			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	89	%
TOLUENE-D8	(88 - 124 %)	90	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	91	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL/TANK

Reported: 03/16/07

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 984416 Sample Matrix: WATER
 Date Received: Submission #: Analytical Run 141717

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL/TANK
Reported: 03/16/07

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 984416	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 141717

ANALYTE	PQL	RESULT	UNITS
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DATE ANALYZED : 02/27/07
ANALYTICAL DILUTION: 1.00

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	97	%
TOLUENE-D8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	101	%

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TANK LIST
Reported: 03/16/07

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 984414	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 141717

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
N-BUTYLBENZENE	5.0	5.0 U	UG/L
SEC-BUTYLBENZENE	5.0	5.0 U	UG/L
TERT-BUTYLBENZENE	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
ISOPROPYL BENZENE	5.0	5.0 U	UG/L
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/L
NAPHTHALENE	5.0	5.0 U	UG/L
N-PROPYLBENZENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	97	%
TOLUENE-D8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	101	%

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCL/TANKLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 982844

ANALYTICAL RUN #: 141502

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/23/07			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	117	50 - 150
BENZENE	20.0	109	70 - 130
BROMODICHLOROMETHANE	20.0	113	70 - 130
BROMOFORM	20.0	111	70 - 130
BROMOMETHANE	20.0	112	50 - 150
2-BUTANONE (MEK)	20.0	110	50 - 150
SEC-BUTYLBENZENE	20.0	105	70 - 130
N-BUTYLBENZENE	20.0	114	70 - 130
TERT-BUTYLBENZENE	20.0	110	70 - 130
CARBON DISULFIDE	20.0	101	70 - 130
CARBON TETRACHLORIDE	20.0	115	70 - 130
CHLOROBENZENE	20.0	109	70 - 130
CHLOROETHANE	20.0	112	70 - 130
CHLOROFORM	20.0	113	70 - 130
CHLOROMETHANE	20.0	115	70 - 130
DIBROMOCHLOROMETHANE	20.0	113	70 - 130
1,1-DICHLOROETHANE	20.0	112	70 - 130
1,2-DICHLOROETHANE	20.0	108	70 - 130
1,1-DICHLOROETHENE	20.0	120	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	114	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	109	70 - 130
1,2-DICHLOROPROPANE	20.0	113	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	108	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	104	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	113	70 - 130
ETHYLBENZENE	20.0	110	70 - 130
2-HEXANONE	20.0	97	70 - 130
ISOPROPYL BENZENE	20.0	110	70 - 130
P-ISOPROPYLTOLUENE	20.0	114	70 - 130
METHYLENE CHLORIDE	20.0	111	70 - 130
NAPHTHALENE	20.0	93	50 - 150
4-METHYL-2-PENTANONE (MIBK)	20.0	96	70 - 130
N-PROPYLBENZENE	20.0	107	70 - 130
STYRENE	20.0	96	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	110	70 - 130
TETRACHLOROETHENE	20.0	109	70 - 130
TOLUENE	20.0	108	70 - 130
1,1,1-TRICHLOROETHANE	20.0	114	70 - 130
1,1,2-TRICHLOROETHANE	20.0	108	70 - 130
TRICHLOROETHENE	20.0	108	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	113	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL/TANK

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 982844 ANALYTICAL RUN #: 141502

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 02/23/07		
ANALYTICAL DILUTION:	1.0		
1,2,4-TRIMETHYLBENZENE	20.0	114	70 - 130
VINYL CHLORIDE	20.0	115	70 - 130
m-XYLENE	20.0	111	70 - 130
1+P-XYLENE	40.0	110	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TANK LIST

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 985174 ANALYTICAL RUN #: 141502

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/23/07			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	109	70 - 130
N-BUTYLBENZENE	20.0	114	70 - 130
SEC-BUTYLBENZENE	20.0	105	70 - 130
TERT-BUTYLBENZENE	20.0	110	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	113	70 - 130
ETHYLBENZENE	20.0	110	70 - 130
ISOPROPYL BENZENE	20.0	110	70 - 130
P-ISOPROPYLTOLUENE	20.0	114	70 - 130
NAPHTHALENE	20.0	93	50 - 150
N-PROPYLBENZENE	20.0	107	70 - 130
TOLUENE	20.0	108	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	114	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	113	70 - 130
O-XYLENE	20.0	111	70 - 130
M+P-XYLENE	40.0	110	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TANK LIST

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 984415

ANALYTICAL RUN #: 141717

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	106	70 - 130
N-BUTYLBENZENE	20.0	108	70 - 130
SEC-BUTYLBENZENE	20.0	105	70 - 130
TERT-BUTYLBENZENE	20.0	109	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	108	70 - 130
ETHYLBENZENE	20.0	112	70 - 130
ISOPROPYL BENZENE	20.0	112	70 - 130
P-ISOPROPYLTOLUENE	20.0	113	70 - 130
NAPHTHALENE	20.0	92	50 - 150
N-PROPYLBENZENE	20.0	106	70 - 130
TOLUENE	20.0	106	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	112	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	107	70 - 130
O-XYLENE	20.0	108	70 - 130
M+P-XYLENE	40.0	109	70 - 130

Y L U M B I A A N A L Y T I C A L S E R V I C E S

VOLATILE ORGANICS
METHOD: 8260B TCL/TANK

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 984417

ANALYTICAL RUN #: 141717

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	94	50 - 150
BENZENE	20.0	106	70 - 130
BROMODICHLOROMETHANE	20.0	102	70 - 130
BROMOFORM	20.0	104	70 - 130
BROMOMETHANE	20.0	118	50 - 150
2-BUTANONE (MEK)	20.0	89	50 - 150
SEC-BUTYLBENZENE	20.0	105	70 - 130
N-BUTYLBENZENE	20.0	108	70 - 130
TERT-BUTYLBENZENE	20.0	109	70 - 130
CARBON DISULFIDE	20.0	87	70 - 130
CARBON TETRACHLORIDE	20.0	107	70 - 130
CHLOROBENZENE	20.0	106	70 - 130
CHLOROETHANE	20.0	104	70 - 130
CHLOROFORM	20.0	101	70 - 130
CHLOROMETHANE	20.0	113	70 - 130
DIBROMOCHLOROMETHANE	20.0	101	70 - 130
1,1-DICHLOROETHANE	20.0	108	70 - 130
1,2-DICHLOROETHANE	20.0	99	70 - 130
1,1-DICHLOROETHENE	20.0	116	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	108	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	103	70 - 130
1,2-DICHLOROPROPANE	20.0	102	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	102	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	98	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	108	70 - 130
ETHYLBENZENE	20.0	112	70 - 130
2-HEXANONE	20.0	90	70 - 130
ISOPROPYL BENZENE	20.0	112	70 - 130
P-ISOPROPYLTOLUENE	20.0	113	70 - 130
METHYLENE CHLORIDE	20.0	105	70 - 130
NAPHTHALENE	20.0	92	50 - 150
4-METHYL-2-PENTANONE (MIBK)	20.0	97	70 - 130
N-PROPYLBENZENE	20.0	106	70 - 130
STYRENE	20.0	96	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	103	70 - 130
TETRACHLOROETHENE	20.0	110	70 - 130
TOLUENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	105	70 - 130
1,1,2-TRICHLOROETHANE	20.0	104	70 - 130
TRICHLOROETHENE	20.0	103	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	107	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL/TANK

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 984417 ANALYTICAL RUN # : 141717

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/27/07			
ANALYTICAL DILUTION: 1.0			
1,2,4-TRIMETHYLBENZENE	20.0	112	70 - 130
VINYL CHLORIDE	20.0	118	70 - 130
O-XYLENE	20.0	108	70 - 130
M+P-XYLENE	40.0	109	70 - 130

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C STARS LIST SEMIVOLATIL

Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-18

Date Sampled : 02/22/07 13:25 Order #: 980101 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141288

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 02/26/07			
DATE ANALYZED : 03/01/07			
ANALYTICAL DILUTION: 0.98			
ACENAPHTHENE	10	9.8 U	UG/L
ANTHRACENE	10	9.8 U	UG/L
BENZO (A) ANTHRACENE	10	9.8 U	UG/L
BENZO (A) PYRENE	10	9.8 U	UG/L
BENZO (B) FLUORANTHENE	10	9.8 U	UG/L
BENZO (G, H, I) PERYLENE	10	9.8 U	UG/L
BENZO (K) FLUORANTHENE	10	9.8 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	9.8 U	UG/L
CHRYSENE	10	9.8 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	9.8 U	UG/L
FLUORANTHENE	10	0.78 J	UG/L
FLUORENE	10	9.8 U	UG/L
NAPHTHALENE	10	9.8 U	UG/L
PHENANTHRENE	10	0.50 J	UG/L
PYRENE	10	0.77 J	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(40 - 137 %)	42	%
NITROBENZENE-d5	(38 - 105 %)	12 *	%
2-FLUOROBIPHENYL	(38 - 100 %)	18 *	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C STARS LIST SEMIVOLATIL

Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-18

Date Sampled : 02/22/07 13:25 Order #: 980101 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 0

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 02/26/07			
DATE ANALYZED : 03/01/07			
ANALYTICAL DILUTION: 0.98			
ACENAPHTHENE	10	9.8 U	UG/L
ANTHRACENE	10	9.8 U	UG/L
BENZO (A) ANTHRACENE	10	9.8 U	UG/L
BENZO (A) PYRENE	10	9.8 U	UG/L
BENZO (B) FLUORANTHENE	10	9.8 U	UG/L
BENZO (G, H, I) PERYLENE	10	9.8 U	UG/L
BENZO (K) FLUORANTHENE	10	9.8 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	9.8 U	UG/L
CHRYSENE	10	9.8 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	9.8 U	UG/L
FLUORANTHENE	10	0.74 J	UG/L
FLUORENE	10	9.8 U	UG/L
NAPHTHALENE	10	9.8 U	UG/L
PHENANTHRENE	10	0.45 J	UG/L
PYRENE	10	0.79 J	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	45	%
NITROBENZENE-d5	(38 - 105 %)	12 *	%
2-FLUOROBIPHENYL	(38 - 100 %)	18 *	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C STARS LIST SEMIVOLATIL

Reported: 03/16/07

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 981714	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 141288

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 02/26/07			
DATE ANALYZED : 03/01/07			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	10	10 U	UG/L
ANTHRACENE	10	10 U	UG/L
BENZO (A) ANTHRACENE	10	10 U	UG/L
BENZO (A) PYRENE	10	10 U	UG/L
BENZO (B) FLUORANTHENE	10	10 U	UG/L
BENZO (G, H, I) PERYLENE	10	10 U	UG/L
BENZO (K) FLUORANTHENE	10	10 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	10 U	UG/L
CHRYSENE	10	10 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	10 U	UG/L
FLUORANTHENE	10	10 U	UG/L
FLUORENE	10	10 U	UG/L
NAPHTHALENE	10	10 U	UG/L
PHENANTHRENE	10	10 U	UG/L
PYRENE	10	10 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	104	%
NITROBENZENE-d5	(38 - 105 %)	74	%
2-FLUOROBIPHENYL	(38 - 100 %)	77	%

LOMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
WATER

Spiked Order No. : 981715

Dup Spiked Order No. : 981716

Client ID:

Test: 8270C STARS LIST SEMIVOLATILES

Analytical Units: UG/L

Run Number : 141288

ANALYTE	SPIKE ADDED	SAMPLE CONCENT.	BLANK SPIKE		BLANK SPIKE DUP.				QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
ACENAPHTHENE	100	0	74.0	74	73.0	73	1	31	41 - 121	
ANTHRACENE	100	0	84.0	84	87.0	87	4	30	73 - 130	
BENZO (A) ANTHRACENE	100	0	87.0	87	91.0	91	4	30	71 - 130	
BENZO (A) PYRENE	100	0	87.0	87	90.0	90	3	30	61 - 119	
BENZO (B) FLUORANTHENE	100	0	90.0	90	94.0	94	4	30	68 - 130	
BENZO (G, H, I) PERYLENE	100	0	84.0	84	85.0	85	1	30	50 - 125	
BENZO (K) FLUORANTHENE	100	0	89.0	89	94.0	94	5	30	68 - 113	
INDENO (1, 2, 3-CD) PYRENE	100	0	84.0	84	85.0	85	1	30	70 - 130	
CHRYSENE	100	0	88.0	88	91.0	91	3	30	61 - 119	
DIBENZO (A, H) ANTHRACENE	100	0	84.0	84	85.0	85	1	30	70 - 130	
FLUORANTHENE	100	0	83.0	83	86.0	86	4	30	75 - 130	
FLUORENE	100	0	82.0	82	83.0	83	1	30	60 - 111	
NAPHTHALENE	100	0	46.0	46	45.0	45	2	30	26 - 109	
PHENANTHRENE	100	0	86.0	86	88.0	88	2	30	68 - 130	
PYRENE	100	0	96.0	96	100	100	4	31	60 - 130	

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 03/16/07

Stern Properties

Project Reference: 320 N. GOODMAN PROJECT #206101

Client Sample ID : MW-18

Date Sampled : 02/22/07 13:25 Order #: 980101 Sample Matrix: WATER
Date Received: 02/22/07 Submission #: R2736311 Analytical Run 141437

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 02/23/07			
DATE ANALYZED : 03/06/07			
ANALYTICAL DILUTION: 1.00			
PCB 1016	1.0	1.0 U	UG/L
PCB 1221	2.0	2.0 U	UG/L
PCB 1232	1.0	1.0 U	UG/L
PCB 1242	1.0	1.0 U	UG/L
PCB 1248	1.0	1.0 U	UG/L
PCB 1254	1.0	1.0 U	UG/L
PCB 1260	1.0	1.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

DECACHLOROBIPHENYL	(10 - 129 %)	25	%
TETRACHLORO-META-XYLENE	(34 - 113 %)	87	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8082 PCB'S
Reported: 03/16/07

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 982443 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 141437

ANALYTE	PQL	RESULT	UNITS
---------	-----	--------	-------

DATE EXTRACTED	: 02/23/07		
DATE ANALYZED	: 03/05/07		
ANALYTICAL DILUTION:	1.00		

PCB 1016	1.0	1.0 U	UG/L
PCB 1221	2.0	2.0 U	UG/L
PCB 1232	1.0	1.0 U	UG/L
PCB 1242	1.0	1.0 U	UG/L
PCB 1248	1.0	1.0 U	UG/L
PCB 1254	1.0	1.0 U	UG/L
PCB 1260	1.0	1.0 U	UG/L
PCB 1268	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(10 - 129 %)	80	%
TETRACHLORO-META-XYLENE	(34 - 113 %)	83	%

UMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY: LABORATORY CONTROL SAMPLE
 WATER

Spiked Order'No. : 982444

Dup Spiked Order No. : 982445

Client ID:

Test: 8082 PCB'S

Analytical Units: UG/L

Run Number : 141437

ANALYTE	SPIKE	SAMPLE	BLANK SPIKE		BLANK SPIKE DUP.			QC LIMITS		
	ADDED	CONCENT.	FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
PCB 1260	5.0	0	4.80	96	4.90	98	2	30	57 - 129	

METALS
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Contract: R2736311 SDG No.: 980101
Lab Code: _____ Case No.: _____ SAS No.: _____
No.: SW846 CLP-M Client: Stern Properties

Sample No. Lab Sample ID.
MW-18-F 980102

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See Attached Case Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Michael K. Perry

Name: Michael K. Perry

Date: 3/20/07

Title: Laboratory Manager

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-18-F

Contract: R2736311

Lab Code:

Case No.:

SAS No.:

SDG NO.: 980101

Matrix (soil/water): WATER

Lab Sample ID: 980102

Level (low/med): LOW

Date Received: 02/22/07

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

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	146			P
7440-43-9	Cadmium	5.0	U		P
7440-47-3	Chromium	10.0	U		P
7439-92-1	Lead	12.1			P
7439-97-6	Mercury	0.20	U		CV
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-3-

BLANKS

Contract: R2736311

Code: Case No.: SAS No.: SDG NO.: 980101

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Barium	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Lead	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.200	U	CV
Selenium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Silver	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P

METALS

-3-

BLANKS

tract: R2736311

Code:

Case No.:

SAS No.:

SDG NO.: 980101

paration Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank		M
		1	C	2	C	3	C			
Arsenic		10.0	U	10.0	U					P
Barium		20.0	U	20.0	U					P
Cadmium		5.0	U	5.0	U					P
Chromium		10.0	U	10.0	U					P
Lead		5.0	U	5.0	U					P
Selenium		10.0	U	10.0	U					P
Silver		10.0	U	10.0	U					P

Biocell Monitoring Analytical Data Report



A FULL SERVICE ENVIRONMENTAL LABORATORY

October 18, 2007

Mr. Dan Noll
LaBella Associates, PC
300 State Street
Suite 201
Rochester, NY 14614

Project: LaBella Associates
Submission# R2740056

Dear Mr. Noll:

Enclosed are the results of the analysis requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (585)288-5380 x131.

Thank you for allowing us to provide this service.

Sincerely,
COLUMBIA ANALYTICAL SERVICES

A handwritten signature in black ink, appearing to read 'Deb Patton', is written over the typed name.

Deb Patton
Project Manager



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Lab Submission # : R2740056
Project Manager : Deborah Patton
Reported : 10/15/07

Report Contains a total of 130 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K. Perry*

SDG NARRATIVE

CASE NARRATIVE
COMPANY: Paradigm Environmental Services
LaBella Associates
SUBMISSION #: R2740056

Three water samples were collected on 09/28/07 and received at CAS on 09/28/07 with a cooler temperature of 11.1°C. This exceeded the 0-6°C temperature guidelines.

VOLATILE ORGANICS

Three water samples were analyzed for Volatile Organics by method 8260B from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

All Internal Standards were within QC limits.

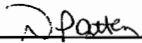
All surrogate standard recoveries were within limits.

Site specific QC was not requested but was run for BC Grab. All Matrix Spike/ Matrix Spike Duplicate and Reference spike recoveries were within limits.

The Laboratory Blank associated with these samples was free of contamination.

All samples were analyzed within required holding times.

No other QC or analytical problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. 

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

[illegible]



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).
- Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is $\geq 100\%$ difference for the detected concentrations between the two GC columns.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

CHAINS OF CUSTODY

INTERNAL CHAINS

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue

Rochester, NY 14608

(585) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: LaBella Associates, PC	COMPANY: Gary Stern - Village Gate	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 300 State Street, Suite 201	ADDRESS: 274 N. Goodman St	TURNAROUND TIME: (WORKING DAYS)	206101
CITY: Rochester	CITY: Rochester	STATE: N.Y.	ZIP: 14607
PHONE: (585) 295-6611	PHONE: (585) 295-6283	FAX: (585) 454-3066	STANDARD TURNAROUND
ATTN: Mr. Dan Noll	ATTN: Mr. Gary Stern	OTHER	1 2 3 5
COMMENTS: ASP Category B Deliverable Package Requested	Quotation #		

320 N. Goodman

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	STARS VOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	28-Sep-07		X	BC Grab	Soil	1	X	1041312	
2	28-Sep-07		X	BC Comp E	Soil	1	X	314	
3	28-Sep-07		X	BC-Comp W	Soil	1	X	315	
4									
5									
6									
7									
8									
9									
10								R2740056	

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type:	Y ☐ N ☐	Y ☐ N ☐	
Preservation:	Y ☐ N ☐	Y ☐ N ☐	
Holding Time:	Y ☐ N ☐	Y ☐ N ☐	
Temperature:	Y ☐ N ☐	Y ☐ N ☐	

Craig A. Stiles

Sampled By

28-Sep-07

Total Cost:

Relinquished By

28-Sep-07

Total Cost:

Received By

28-Sep-07

P.I.F.

Received @ Lab By

28-Sep-07

Total Cost:

Cooler Receipt And Preservation Check Form

Project/Client Paradigm Submission Number R274054

Cooler received on 9/28/07 by: RJ COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 11.1°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 9/28/07 @ 1648

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

PC Secondary Review: Deeth

Cooler Breakdown: Date: 10/1/07 by: AHJ

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
≥12	NaOH						
≤2	HNO ₃						
≤2	H ₂ SO ₄						
Residual Chlorine (+/-)	for TCN & Phenol						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: _____

Chain of Custody

Submission: R2740056 **Client:** Paradigm Environmental Service

Lab ID: 1041312 **Matrix** SOIL

Received into CAS-Rochester Custody: 9/28/07

Container: 10413121

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/01/07 9:44	ahentsch	Sample Management	Cooler 1	Storage	☐
10/04/07 12:21	karnold	GC/MS Volatiles	Cooler 1 - S08	Analysis	☐
10/04/07 17:26	karnold	GC/MS Volatiles	Cooler 2	Storage	☐
10/08/07 9:19	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
10/08/07 11:33	rpawl	Wet Chemistry	Cooler 2	Storage	☐

Lab ID: 1041314 **Matrix** SOIL

Received into CAS-Rochester Custody: 9/28/07

Container: 10413141

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/01/07 9:44	ahentsch	Sample Management	Cooler 1	Storage	☐
10/04/07 12:21	karnold	GC/MS Volatiles	Cooler 1 - S08	Analysis	☐
10/04/07 17:26	karnold	GC/MS Volatiles	Cooler 2	Storage	☐
10/08/07 9:19	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
10/08/07 11:33	rpawl	Wet Chemistry	Cooler 2	Storage	☐

Lab ID: 1041315 **Matrix** SOIL

Received into CAS-Rochester Custody: 9/28/07

Container: 10413151

Date of Custody	User	Dept	Storage Location	Purpose	Empty
10/01/07 9:44	ahentsch	Sample Management	Cooler 1	Storage	☐
10/04/07 12:21	karnold	GC/MS Volatiles	Cooler 1 - S08	Analysis	☐
10/04/07 17:26	karnold	GC/MS Volatiles	Cooler 2	Storage	☐
10/08/07 9:20	rpawl	Wet Chemistry	Cooler 2	Analysis	☐
10/08/07 11:33	rpawl	Wet Chemistry	Cooler 2	Storage	☐

VOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 1041312 Paradigm Environmental Service

Client ID: BC GRAB

Test: 8260B STARS LIST

Analytical Units: UG/KG

Run Number : 151212

Percent Solid : 87.4

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
BENZENE	57.2	0	56.1	98	60.6	106	8	30	70 - 130	
N-BUTYLBENZENE	57.2	0	48.1	84	45.8	80	5	30	70 - 130	
SEC-BUTYLBENZENE	57.2	0	59.5	104	59.5	104	0	30	70 - 130	
TERT-BUTYLBENZENE	57.2	0	61.8	108	61.8	108	0	30	70 - 130	
METHYL-TERT-BUTYL-ETHER	57.2	0	67.5	118	62.9	110	7	30	70 - 130	
ETHYLBENZENE	57.2	0.641	57.2	99	58.4	101	2	30	70 - 130	
ISOPROPYL BENZENE	57.2	0	57.2	100	57.2	100	0	30	70 - 130	
P-ISOPROPYLTOLUENE	57.2	0	57.2	100	53.8	94	6	30	70 - 130	
NAPHTHALENE	57.2	0	40.0	70	40.0	70	0	30	50 - 150	
N-PROPYLBENZENE	57.2	0	60.6	106	60.6	106	0	30	70 - 130	
TOLUENE	57.2	3.20	60.6	100	61.8	102	2	30	70 - 130	
1,2,4-TRIMETHYLBENZENE	57.2	0	61.8	108	60.6	106	2	30	70 - 130	
1,3,5-TRIMETHYLBENZENE	57.2	0	62.9	110	61.8	108	2	30	70 - 130	
O-XYLENE	57.2	0.549	57.2	99	56.1	97	2	30	70 - 130	
M+P-XYLENE	114	1.95	114	98	114	98	0	30	70 - 130	

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B STARS LISTLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 1043051

ANALYTICAL RUN #: 151212

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 10/04/07			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	112	70 - 130
N-BUTYLBENZENE	20.0	108	70 - 130
SEC-BUTYLBENZENE	20.0	120	70 - 130
TERT-BUTYLBENZENE	20.0	114	70 - 130
METHYL-TERT-BUTYL-ETHER	20.0	107	70 - 130
ETHYLBENZENE	20.0	115	70 - 130
ISOPROPYL BENZENE	20.0	114	70 - 130
P-ISOPROPYLTOLUENE	20.0	112	70 - 130
NAPHTHALENE	20.0	110	50 - 150
N-PROPYLBENZENE	20.0	108	70 - 130
TOLUENE	20.0	109	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	109	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	109	70 - 130
O-XYLENE	20.0	111	70 - 130
M+P-XYLENE	40.0	112	70 - 130

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

METBLK1

Lab Name: CASROCH Contract: Paradigm
 Lab Code: 10145 Case No.: R7-40056 SAS No.: _____ SDG No.: 1041312
 Lab File ID: Q7789.D Lab Sample ID: 1043050 1.0
 Date Analyzed: 10/04/07 Time Analyzed: 12:42
 GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOA7

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS1	1043051 1.0	Q7787.D	11:29
02	BC GRAB	1041312 1.0	Q7793.D	15:09
03	BC COMP E	1041314 1.0	Q7794.D	15:46
04	BC COMP W	1041315 1.0	Q7795.D	16:22
05	BC GRAB MS	1043052 1.0	Q7796.D	16:59
06	BC GRAB MSD	1043053 1.0	Q7797.D	17:35

COMMENTS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASROCH Contract: Paradigm
 Lab Code: 10145 Case No.: R7-40056 SAS No.: SDG No.: 1041312
 Lab File ID: Q7772.D BFB Injection Date: 10/03/07
 Instrument ID: MSVOA7 BFB Injection Time: 12:53
 GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.4
75	30.0 - 60.0% of mass 95	48.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (0.5)1
174	50.0 - 120.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	5.0 (6.4)1
176	95.0 - 101.0% of mass 174	76.0 (97.7)1
177	5.0 - 9.0% of mass 176	4.3 (5.7)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1	1 PPB	Q7774.D	10/03/07	14:06
02	5	5 PPB	Q7775.D	10/03/07	14:42
03	20	20 PPB	Q7776.D	10/03/07	15:19
04	50	50 PPB	Q7777.D	10/03/07	15:56
05	100	100 PPB	Q7778.D	10/03/07	16:32
06	150	150 PPB	Q7779.D	10/03/07	17:09
07	200	200 PPB	Q7780.D	10/03/07	17:45

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7772.D

Vial: 27

Acq On : 3 Oct 2007 12:53 pm

Operator: K.Ruest

Sample : TUNE

Inst : GC/MS Ins

Misc :

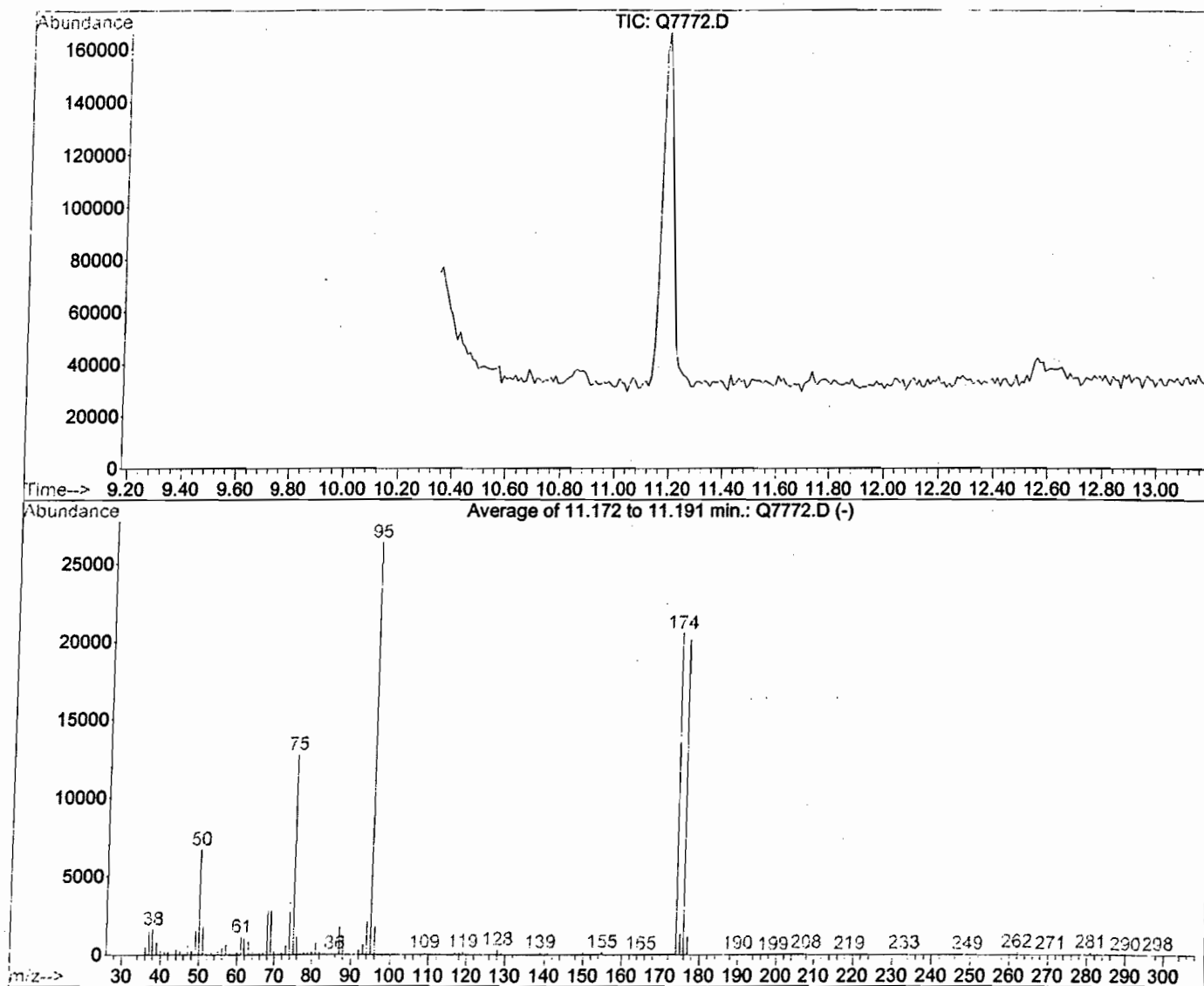
Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL0822.M (RTE Integrator)

Title : 8260voa

KR 10/3/07



AutoFind: Scans 85, 86, 87; Background Corrected with Scan 73

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	6711	PASS
75	95	30	60	48.2	12732	PASS
95	95	100	100	100.0	26423	PASS
96	95	5	9	6.7	1772	PASS
173	174	0.00	2	0.5	106	PASS
174	95	50	120	77.7	20541	PASS
175	174	5	9	6.4	1309	PASS
176	174	95	101	97.7	20077	PASS
177	176	5	9	5.7	1141	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASROCH Contract: Paradigm
 Lab Code: 10145 Case No.: R7-40056 SAS No.: _____ SDG No.: 1041312
 Lab File ID: Q7785.D BFB Injection Date: 10/04/07
 Instrument ID: MSVOA7 BFB Injection Time: 10:17
 GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	45.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	76.4
175	5.0 - 9.0% of mass 174	6.1 (7.9)1
176	95.0 - 101.0% of mass 174	76.2 (99.8)1
177	5.0 - 9.0% of mass 176	4.9 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV1	CCV	Q7786.D	10/04/07	10:53
02	LCS1	1043051 1.0	Q7787.D	10/04/07	11:29
03	METBLK1	1043050 1.0	Q7789.D	10/04/07	12:42
04	BC GRAB	1041312 1.0	Q7793.D	10/04/07	15:09
05	BC COMP E	1041314 1.0	Q7794.D	10/04/07	15:46
06	BC COMP W	1041315 1.0	Q7795.D	10/04/07	16:22
07	BC GRAB MS	1043052 1.0	Q7796.D	10/04/07	16:59
08	BC GRAB MSD	1043053 1.0	Q7797.D	10/04/07	17:35

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7785.D

Vial: 27

Acq On : 4 Oct 2007 10:17 am

Operator: K.Ruest

Sample : TUNE

Inst : GC/MS Ins

Misc :

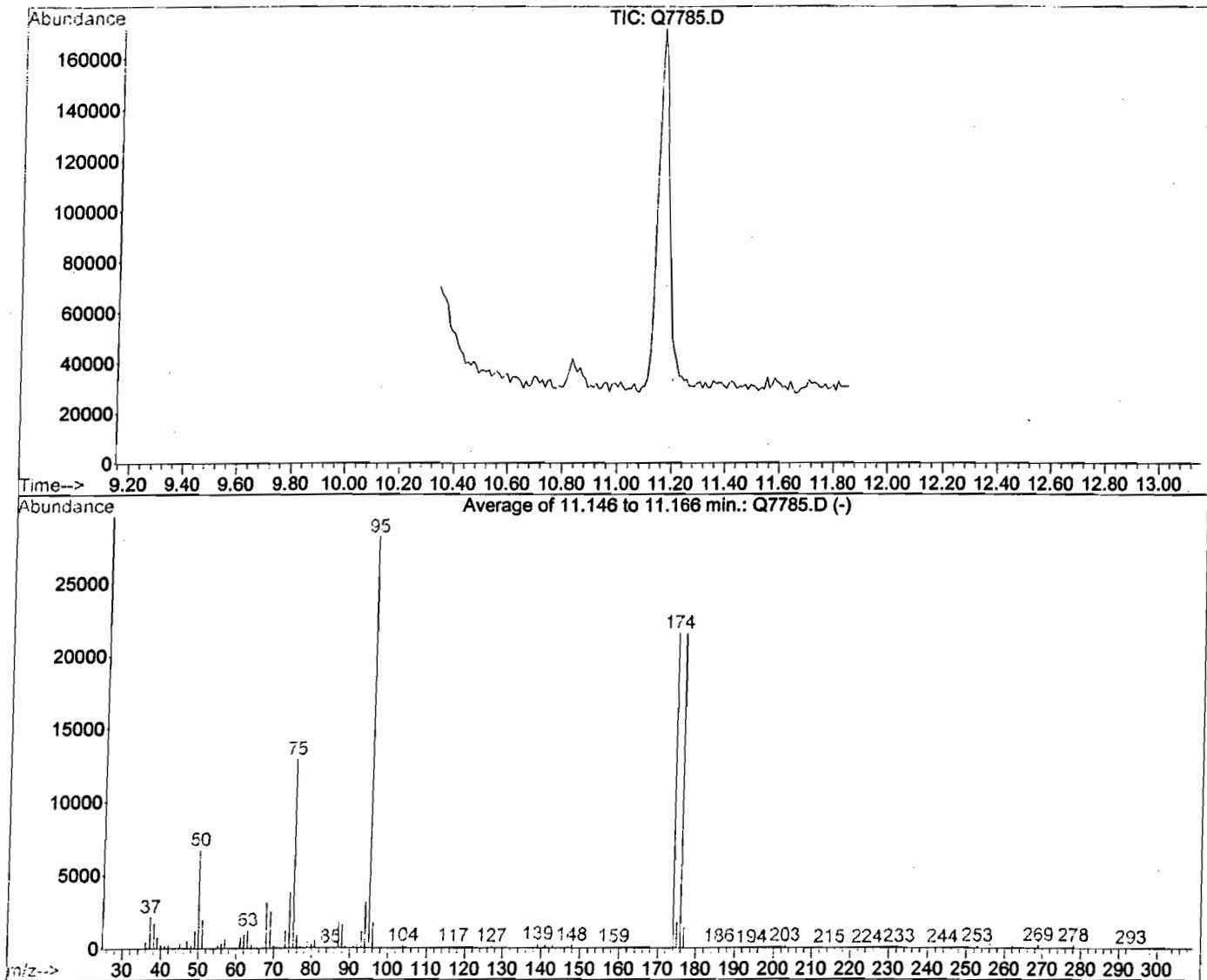
Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

12/10/07



AutoFind: Scans 83, 84, 85; Background Corrected with Scan 71

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	6723	PASS
75	95	30	60	45.6	12880	PASS
95	95	100	100	100.0	28216	PASS
96	95	5	9	6.1	1729	PASS
173	174	0.00	2	0.3	62	PASS
174	95	50	120	76.4	21557	PASS
175	174	5	9	7.9	1712	PASS
176	174	95	101	99.8	21509	PASS
177	176	5	9	6.4	1372	PASS

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASROCH Contract: Paradigm
 Lab Code: 10145 Case No.: R7-40056 SAS No.: SDG No.: 1041312
 Lab File ID (Standard): Q7786.D Date Analyzed: 10/04/07
 Instrument ID: MSVOA7 Time Analyzed: 10:53
 GC Column: DB624 ID: 0.25 (mm) Heated Purge (Y/N): Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	333901	10.89	584297	12.23	548530	17.79
UPPER LIMIT	667802	10.39	1168594	11.73	1097060	17.29
LOWER LIMIT	166951	11.39	292149	12.73	274265	18.29
EPA SAMPLE NO.						
01 LCS1	340804	10.89	573413	12.24	545477	17.78
02 METBLK1	347384	10.89	609665	12.24	569076	17.79
03 BC GRAB	339983	10.89	623872	12.24	558053	17.79
04 BC COMP E	353801	10.89	616394	12.24	563256	17.79
05 BC COMP W	357635	10.89	616977	12.24	576758	17.79
06 BC GRAB MS	331973	10.89	633098	12.24	559149	17.79
07 BC GRAB MSD	350166	10.89	592800	12.23	562517	17.79

IS1 = Pentafluorobenzene
 IS2 = 1,4 - Difluorobenzene
 IS3 = d5 - Chlorobenzene
 IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASROCH Contract: Paradigm
 Lab Code: 10145 Case No.: R7-40056 SAS No.: SDG No.: 1041312
 Lab File ID (Standard): Q7786.D Date Analyzed: 10/04/07
 Instrument ID: MSVOA7 Time Analyzed: 10:53
 GC Column: DB624 ID: 0.25 (mm) Heated Purge (Y/N): Y

	IS4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	263475	22.57				
UPPER LIMIT	526950	22.07				
LOWER LIMIT	131738	23.07				
EPA SAMPLE NO.						
01 LCS1	262245	22.57				
02 METBLK1	274847	22.58				
03 BC GRAB	223852	22.58				
04 BC COMP E	222118	22.58				
05 BC COMP W	255544	22.58				
06 BC GRAB MS	224328	22.58				
07 BC GRAB MS	228075	22.58				

IS1 = Pentafluorobenzene
 IS2 = 1,4 - Difluorobenzene
 IS3 = d5 - Chlorobenzene
 IS4 = d4 - Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

MDL Study Report

Analytical Method: 8260B
 Extraction Method: EPA 5035/5030B
 Matrix: SOIL
 Instrument: GC/MS Ins 7

MDL Study ID: MDL213

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
1,1,1,2-Tetrachloroethane	2.00	1.71	0.105	3.143	0.33	ug/Kg	6	85	Valid MDL Data
1,1,1-Trichloroethane (TCA)	2.00	1.66	0.0865	3.143	0.27	ug/Kg	5	83	Valid MDL Data
1,1,2,2-Tetrachloroethane	2.00	1.90	0.129	3.143	0.41	ug/Kg	7	95	Valid MDL Data
1,1,2-Trichloroethane	2.00	1.86	0.113	3.143	0.35	ug/Kg	6	93	Valid MDL Data
1,1-Dichloroethane	2.00	1.69	0.0675	3.143	0.21	ug/Kg	4	85	Valid MDL Data
1,1-Dichloroethene	2.00	1.71	0.125	3.143	0.39	ug/Kg	7	86	Valid MDL Data
1,1-Dichloropropene	2.00	1.65	0.155	3.143	0.49	ug/Kg	9	83	Valid MDL Data
1,2,3-Trichlorobenzene	2.00	2.08	0.231	3.143	0.73	ug/Kg	11	104	Valid MDL Data
1,2,3-Trichloropropane	2.00	2.17	0.426	3.143	1.3	ug/Kg	20	109	Valid MDL Data
1,2,4-Trichlorobenzene	2.00	2.03	0.207	3.143	0.65	ug/Kg	10	101	Valid MDL Data
1,2,4-Trimethylbenzene	2.00	1.82	0.169	3.143	0.53	ug/Kg	9	91	Valid MDL Data
1,2-Dibromo-3-chloropropane (DBCP)	2.00	2.12	0.255	3.143	0.80	ug/Kg	12	106	Valid MDL Data
1,2-Dibromoethane (EDB)	2.00	1.78	0.0736	3.143	0.23	ug/Kg	4	89	Valid MDL Data
1,2-Dichloro-1,1,2-trifluoroethane (C)	2.00	1.55	0.0875	3.143	0.28	ug/Kg	6	78	Valid MDL Data
1,2-Dichlorobenzene	2.00	1.84	0.171	3.143	0.54	ug/Kg	9	92	Valid MDL Data
1,2-Dichloroethane (EDC)	2.00	1.80	0.0989	3.143	0.31	ug/Kg	5	90	Valid MDL Data
1,2-Dichloropropane	2.00	1.73	0.0851	3.143	0.27	ug/Kg	5	87	Valid MDL Data
1,3,5-Trimethylbenzene	2.00	1.69	0.114	3.143	0.36	ug/Kg	7	84	Valid MDL Data
1,3-Dichlorobenzene	2.00	1.72	0.125	3.143	0.39	ug/Kg	7	86	Valid MDL Data
1,3-Dichloropropane	2.00	1.68	0.112	3.143	0.35	ug/Kg	7	84	Valid MDL Data
1,4-Dichlorobenzene	2.00	1.75	0.139	3.143	0.44	ug/Kg	8	88	Valid MDL Data
1,4-Dioxane	40.0	39.5	6.81	3.143	21	ug/Kg	17	99	Valid MDL Data
2,2-Dichloro-1,1,1-trifluoroethane (C)	2.00	1.52	0.109	3.143	0.34	ug/Kg	7	76	Valid MDL Data
2,2-Dichloropropane	2.00	1.65	0.101	3.143	0.32	ug/Kg	6	83	Valid MDL Data
2-Butanone (MEK)	3.00	3.28	0.242	3.143	0.76	ug/Kg	7	109	Valid MDL Data
2-Chloro-1,3-butadiene	2.00	2.41	0.0958	3.143	0.30	ug/Kg	4	120	Valid MDL Data
2-Chloroethyl Vinyl Ether	3.00	2.55	0.213	3.143	0.67	ug/Kg	8	85	Valid MDL Data
2-Chlorotoluene	2.00	1.75	0.140	3.143	0.44	ug/Kg	8	87	Valid MDL Data
2-Hexanone	3.00	3.74	0.511	3.143	1.6	ug/Kg	14	125	Valid MDL Data
2-Nitropropane	3.00	3.53	0.295	3.143	0.93	ug/Kg	8	118	Valid MDL Data
2-Propanol	40.0	38.3	2.67	3.143	8.4	ug/Kg	7	96	Valid MDL Data

Supervisor Approval:

QA/QC Approval:

Printed: 12/27/2006 13:52:14

P:\Health\Crystal.rpt\MDLStudy.rpt

MDL Study Report

Analytical Method: 8260B
 Extraction Method: EPA 5035/5030B
 Matrix: SOIL
 Instrument: GC/MS Ins

MDL Study ID: MDL213

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
4-Chlorotoluene	2.00	1.73	0.0966	3.143	0.30	ug/Kg	6	87	Valid MDL Data
4-Isopropyltoluene	2.00	1.88	0.170	3.143	0.53	ug/Kg	9	94	Valid MDL Data
4-Methyl-2-pentanone (MIBK)	2.00	2.98	0.138	3.143	0.43	ug/Kg	5	149	Valid MDL Data
Acetone	3.00	6.16	0.842	3.143	2.6	ug/Kg	14	205	Valid MDL Data
Acetonitrile	10.0	9.32	0.645	3.143	2.0	ug/Kg	7	93	Valid MDL Data
Acrolein	10.0	13.4	0.896	3.143	2.8	ug/Kg	7	134	Valid MDL Data
Acrylonitrile	10.0	8.65	0.409	3.143	1.3	ug/Kg	5	86	Valid MDL Data
Allyl Chloride	2.00	1.73	0.0696	3.143	0.22	ug/Kg	4	86	Valid MDL Data
Benzene	1.00	0.956	0.0683	3.143	0.21	ug/Kg	7	96	Valid MDL Data
Bromobenzene	2.00	1.67	0.122	3.143	0.38	ug/Kg	7	84	Valid MDL Data
Bromochloromethane	2.00	1.92	0.135	3.143	0.42	ug/Kg	7	96	Valid MDL Data
Bromodichloromethane	1.00	0.980	0.0404	3.143	0.13	ug/Kg	4	98	Valid MDL Data
Bromoform	2.00	1.67	0.0879	3.143	0.28	ug/Kg	5	84	Valid MDL Data
Bromomethane	2.00	1.52	0.152	3.143	0.48	ug/Kg	10	76	Valid MDL Data
Carbon Disulfide	2.00	2.39	0.0698	3.143	0.22	ug/Kg	3	120	Valid MDL Data
Carbon Tetrachloride	2.00	1.62	0.0898	3.143	0.28	ug/Kg	6	81	Valid MDL Data
Chlorobenzene	2.00	1.73	0.0673	3.143	0.21	ug/Kg	4	87	Valid MDL Data
Chloroethane	2.00	1.84	0.173	3.143	0.54	ug/Kg	9	92	Valid MDL Data
Chloroform	2.00	2.02	0.121	3.143	0.38	ug/Kg	6	101	Valid MDL Data
Chloromethane	2.00	1.76	0.0969	3.143	0.30	ug/Kg	6	88	Valid MDL Data
cis-1,2-Dichloroethene	2.00	1.79	0.167	3.143	0.53	ug/Kg	9	90	Valid MDL Data
cis-1,3-Dichloropropene	2.00	1.71	0.104	3.143	0.33	ug/Kg	6	85	Valid MDL Data
Cyclohexane	2.00	1.44	0.0736	3.143	0.23	ug/Kg	5	72	Valid MDL Data
Cyclohexanone	2.00	1.75	0.132	3.143	0.41	ug/Kg	8	88	Valid MDL Data
Dibromochloromethane	2.00	1.73	0.0986	3.143	0.31	ug/Kg	6	87	Valid MDL Data
Dibromomethane	2.00	1.86	0.0854	3.143	0.27	ug/Kg	5	93	Valid MDL Data
Dichlorodifluoromethane	2.00	1.74	0.125	3.143	0.39	ug/Kg	7	87	Valid MDL Data
Diethyl Ether	2.00	1.81	0.0966	3.143	0.30	ug/Kg	5	91	Valid MDL Data
Ethyl Methacrylate	2.00	1.76	0.0680	3.143	0.21	ug/Kg	4	88	Valid MDL Data
Ethylbenzene	2.00	1.64	0.106	3.143	0.33	ug/Kg	6	82	Valid MDL Data
Hexachlorobutadiene	2.00	1.93	0.235	3.143	0.74	ug/Kg	12	96	Valid MDL Data

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Supervisor Approval:

QA/QC Approval:

MDL Study Report

MDL Study ID: MDL213

Analytical Method: 8260B
 Extraction Method: EPA 5035/5030B
 Matrix: SOIL
 Instrument: GC/MS Ins

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Iodomethane (Methyl Iodide)	3.00	2.41	0.244	3.143	0.77	ug/Kg	10	80	Valid MDL Data
Isobutyl Alcohol	40.0	35.0	2.89	3.143	9.1	ug/Kg	8	88	Valid MDL Data
Isopropylbenzene	2.00	1.55	0.0871	3.143	0.27	ug/Kg	6	78	Valid MDL Data
m,p-Xylenes	4.00	3.16	0.179	3.143	0.56	ug/Kg	6	79	Valid MDL Data
Methacrylonitrile	2.00	1.81	0.186	3.143	0.58	ug/Kg	10	90	Valid MDL Data
Methyl Acetate	2.00	1.95	0.123	3.143	0.39	ug/Kg	6	98	Valid MDL Data
Methyl Methacrylate	2.00	1.96	0.124	3.143	0.39	ug/Kg	6	98	Valid MDL Data
Methyl tert-Butyl Ether	2.00	1.78	0.0722	3.143	0.23	ug/Kg	4	89	Valid MDL Data
Methylcyclohexane	2.00	1.50	0.124	3.143	0.39	ug/Kg	8	75	Valid MDL Data
Methylene Chloride	1.00	0.983	0.0645	3.143	0.20	ug/Kg	7	98	Valid MDL Data
Naphthalene	2.00	2.29	0.242	3.143	0.76	ug/Kg	11	115	Valid MDL Data
n-Butylbenzene	2.00	1.74	0.160	3.143	0.50	ug/Kg	9	87	Valid MDL Data
n-Heptane	2.00	1.83	0.161	3.143	0.51	ug/Kg	9	91	Valid MDL Data
n-Propylbenzene	2.00	1.69	0.127	3.143	0.40	ug/Kg	8	84	Valid MDL Data
o-Xylene	2.00	1.59	0.0853	3.143	0.27	ug/Kg	5	79	Valid MDL Data
Propionitrile	10.0	8.55	1.05	3.143	3.3	ug/Kg	12	86	Valid MDL Data
sec-Butylbenzene	2.00	1.62	0.148	3.143	0.47	ug/Kg	9	81	Valid MDL Data
Styrene	2.00	1.61	0.0781	3.143	0.25	ug/Kg	5	81	Valid MDL Data
tert-Butyl Alcohol	40.0	35.7	1.67	3.143	5.3	ug/Kg	5	89	Valid MDL Data
tert-Butylbenzene	2.00	1.65	0.0922	3.143	0.29	ug/Kg	6	82	Valid MDL Data
Tetrachloroethene (PCE)	2.00	1.55	0.141	3.143	0.44	ug/Kg	9	78	Valid MDL Data
Tetrahydrofuran	3.00	3.87	0.600	3.143	1.9	ug/Kg	16	129	Valid MDL Data
Toluene	2.00	1.67	0.0955	3.143	0.30	ug/Kg	6	84	Valid MDL Data
trans-1,2-Dichloroethene	2.00	1.65	0.0911	3.143	0.29	ug/Kg	6	83	Valid MDL Data
trans-1,3-Dichloropropene	2.00	1.69	0.0926	3.143	0.29	ug/Kg	5	84	Valid MDL Data
trans-1,4-Dichloro-2-butene	2.00	2.02	0.216	3.143	0.68	ug/Kg	11	101	Valid MDL Data
Trichloroethene (TCE)	2.00	1.62	0.0899	3.143	0.28	ug/Kg	6	81	Valid MDL Data
Trichlorofluoromethane	2.00	1.60	0.0883	3.143	0.28	ug/Kg	6	80	Valid MDL Data
Trichlorotrifluoroethane	2.00	1.67	0.188	3.143	0.59	ug/Kg	11	84	Valid MDL Data
Vinyl Acetate	3.00	2.55	0.161	3.143	0.51	ug/Kg	6	85	Valid MDL Data
Vinyl Chloride	2.00	1.75	0.153	3.143	0.48	ug/Kg	9	88	Valid MDL Data

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Supervisor Approval:

QA/QC Approval:

Printed: 12/27/2006 13:52:14

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VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Client Sample ID : BC GRABDate Sampled : 09/28/07 12:05 Order #: 1041312 Sample Matrix: SOIL/SEDIMENT
Date Received: 09/28/07 Submission #: R2740056 Percent Solid: 87.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 10/04/07		
ANALYTICAL DILUTION:	1.00		Dry Weight
BENZENE	5.0	5.7 U	UG/KG
N-BUTYLBENZENE	5.0	5.7 U	UG/KG
SEC-BUTYLBENZENE	5.0	5.7 U	UG/KG
TERT-BUTYLBENZENE	5.0	5.7 U	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	5.7 U	UG/KG
ETHYLBENZENE	5.0	0.64 J	UG/KG
ISOPROPYL BENZENE	5.0	5.7 U	UG/KG
P-ISOPROPYLTOLUENE	5.0	5.7 U	UG/KG
NAPHTHALENE	5.0	5.7 U	UG/KG
N-PROPYLBENZENE	5.0	5.7 U	UG/KG
TOLUENE	5.0	3.2 J	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	5.7 U	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	5.7 U	UG/KG
O-XYLENE	5.0	0.55 J	UG/KG
M+P-XYLENE	5.0	1.9 J	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(50 - 135 %)	87	%
TOLUENE-D8	(75 - 128 %)	97	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	95	%

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7795.D

Vial: 34

Acq On : 4 Oct 2007 4:22 pm

Operator: K.Ruest

Sample : 1041315 1.0

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 16:52 2007

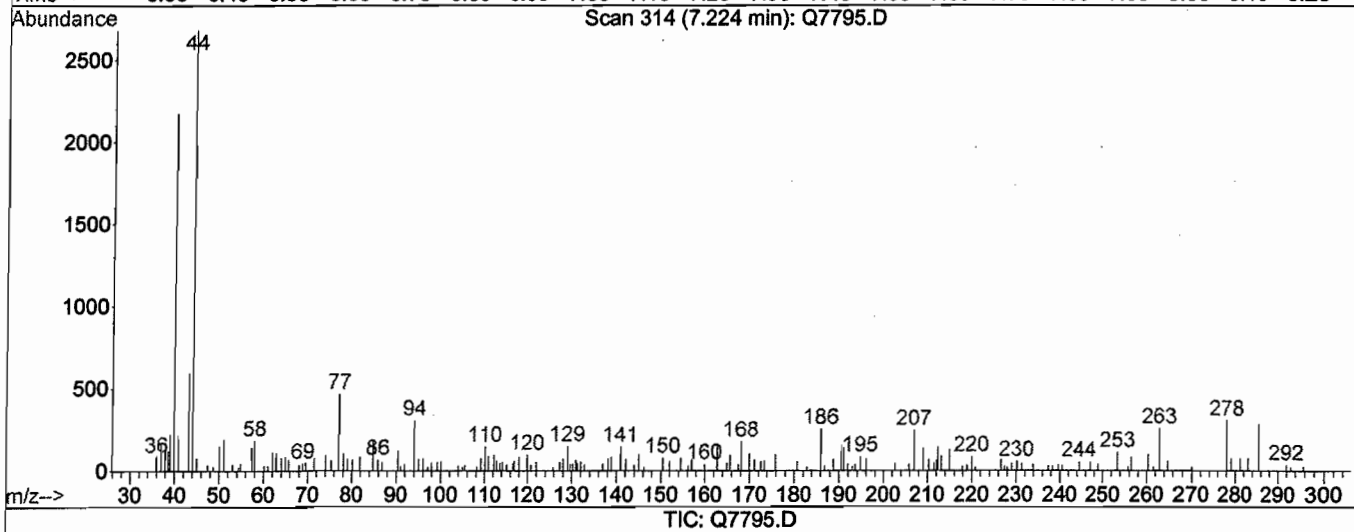
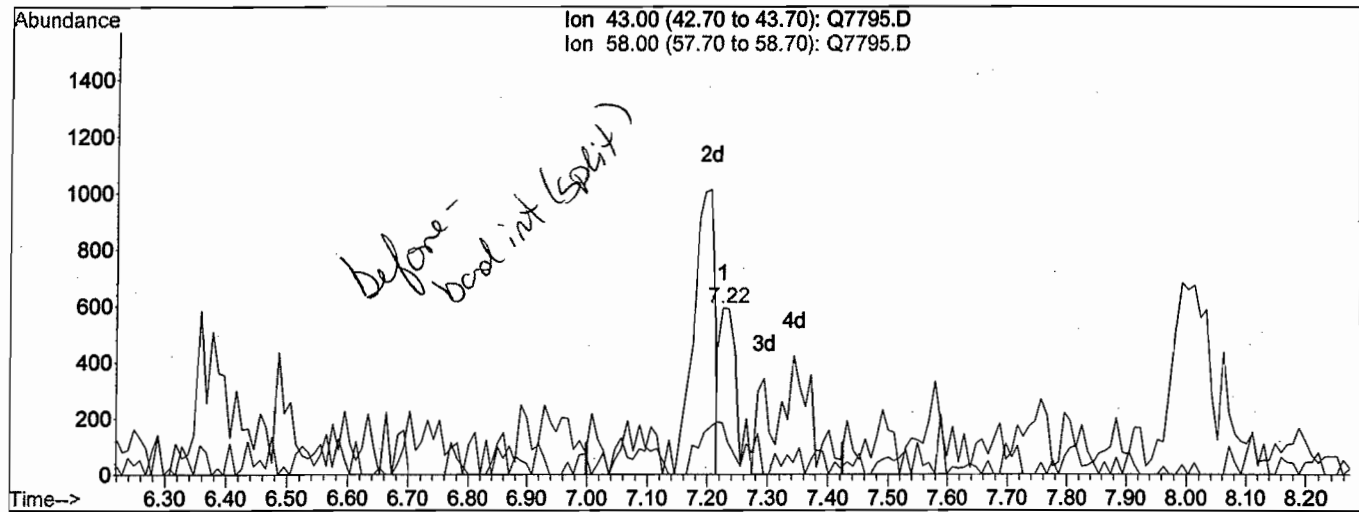
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Single Level Calibration



(14) Acetone

7.22min 0.42ppb

response 1104

Ion	Exp%	Act%
43.00	100	100
58.00	26.90	31.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7795.D

Vial: 34

Acq On : 4 Oct 2007 4:22 pm

Operator: K.Ruest

Sample : 1041315 1.0

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 17:20 2007

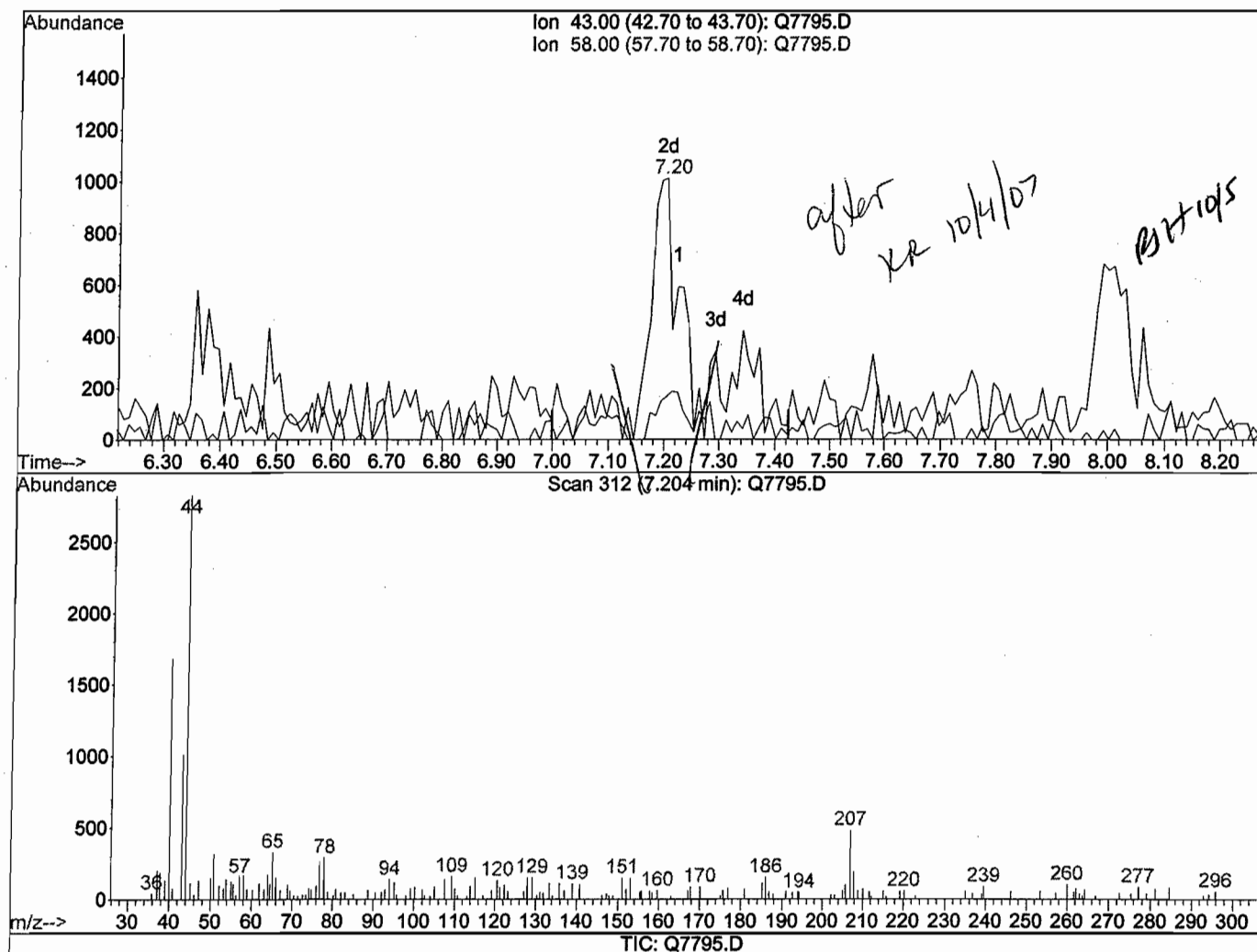
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Single Level Calibration



(14) Acetone

7.20min 1.40ppb m

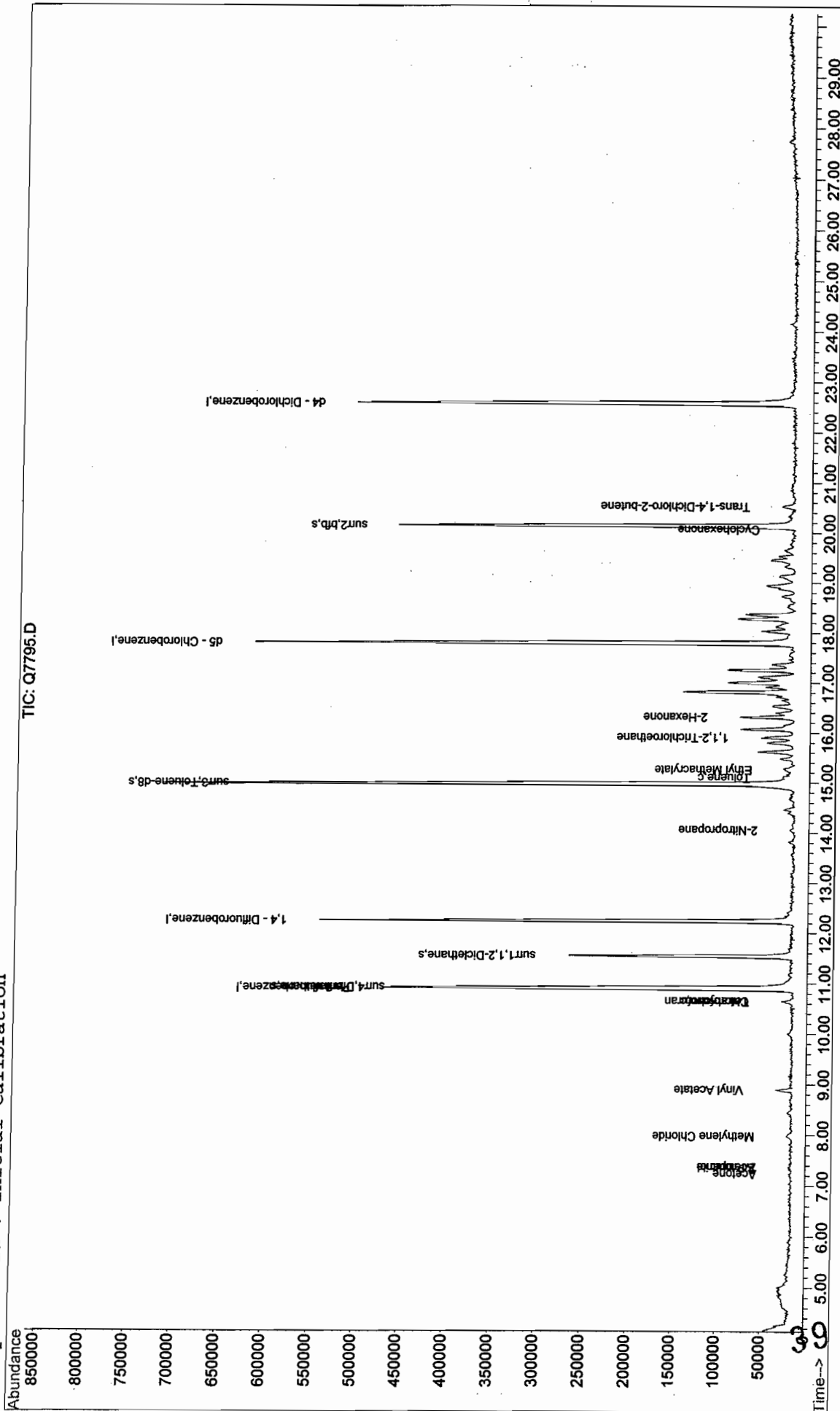
response 3645

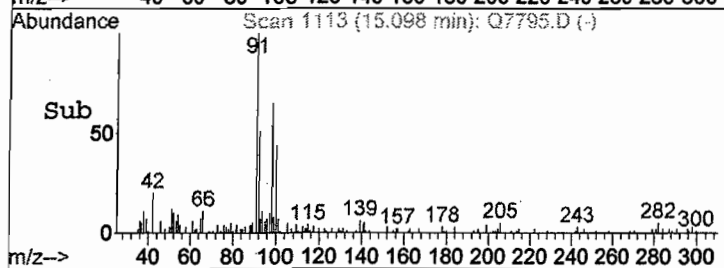
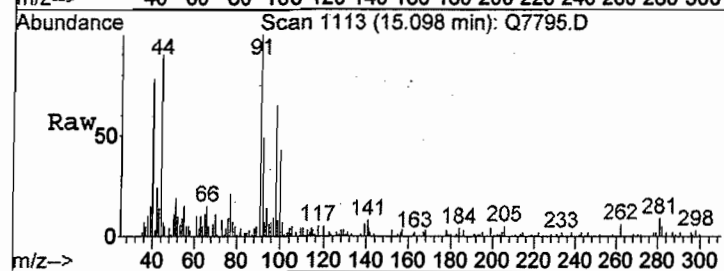
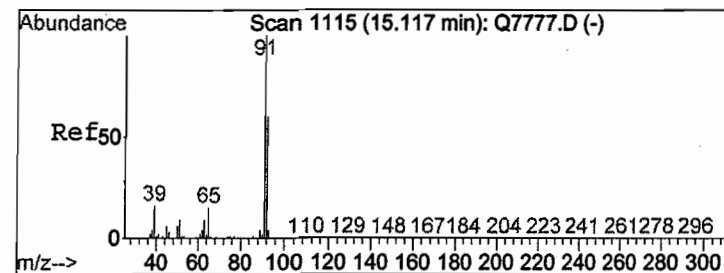
Ion	Exp%	Act%
43.00	100	100
58.00	26.90	16.60#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA7\DATA\100407\Q7795.D
 Acq On : 4 Oct 2007 4:22 pm
 Sample : 1041315 1.0
 Misc : PARA R27-40056 8260B.TANK
 MS Integration Params: RTEINT.P
 Quant Time: Oct 4 16:52 2007

Vial: 34
 Operator: K.Ruest
 Inst : GC/MS Ins
 Multiplr: 1.00
 Quant Results File: SOL1003.RES

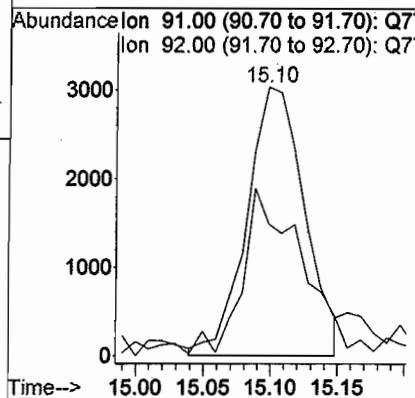
Method : J:\ACQDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
 Title : 8260vov
 Last Update : Thu Oct 04 15:14:55 2007
 Response via : Initial Calibration





#60
Toluene
Concen: 0.46 ppb
RT: 15.10 min Scan# 1113
Delta R.T. -0.02 min
Lab File: Q7795.D
Acq: 4 Oct 2007 4:22 pm

Tgt Ion: 91 Resp: 9117
Ion Ratio Lower Upper
91 100
92 49.2 47.8 71.6



VOLATILE ORGANICS
STANDARDS DATA

Calibration ID: CAL673
Method ID: MJ115

8260B SOIL
12/10/4/07

Instrument ID: GC/MS Ins
Column Name: MS #7
Calibration Fit: AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
5401	J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D	10/03/2007 14:06	10/04/2007 15:00	10/04/2007 15:26
5402	J:\ACQUDATA\MSVOA7\DATA\100307\Q7775.D	10/03/2007 14:42	10/04/2007 14:57	10/04/2007 15:26
5403	J:\ACQUDATA\MSVOA7\DATA\100307\Q7776.D	10/03/2007 15:19	10/04/2007 14:54	10/04/2007 15:26
5404	J:\ACQUDATA\MSVOA7\DATA\100307\Q7777.D	10/03/2007 15:56	10/04/2007 14:52	10/04/2007 15:26
5405	J:\ACQUDATA\MSVOA7\DATA\100307\Q7778.D	10/03/2007 16:32	10/04/2007 15:09	10/04/2007 15:26
5406	J:\ACQUDATA\MSVOA7\DATA\100307\Q7779.D	10/03/2007 17:09	10/04/2007 15:10	10/04/2007 15:26
5407	J:\ACQUDATA\MSVOA7\DATA\100307\Q7780.D	10/03/2007 17:45	10/04/2007 15:12	10/04/2007 15:26

Parameter Name	(1) 5401	(5) 5402	(20) 5403	(50) 5404	(100) 5405	(150) 5406	(200) 5407	Mean RF	%RSD
Dichlorodifluoromethane	0.616	0.502	0.610	0.546	0.643	0.614	0.654	0.598	9.1
Chloromethane	0.915	0.760	0.922	0.784	0.879	0.835	0.921	0.860	7.8
Vinyl Chloride	0.552	0.606	0.638	0.591	0.658	0.629	0.665	0.620	6.5
Bromomethane	0.633	0.429	0.509	0.477	0.503	0.487	0.508	0.506	12.3
Chloroethane	0.682	0.501	0.539	0.472	0.533	0.486	0.507	0.532	13.3
Trichlorofluoromethane	0.703	0.708	0.833	0.771	0.849	0.834	0.859	0.794	8.4
Diethyl Ether	0.667	0.555	0.640	0.579	0.604	0.584	0.583	0.602	6.4
1,2-Dichloro-1,1,2-trifluoroethane (	1.019	0.882	1.002	1.021	0.939	0.945	0.942	0.964	5.3
2,2-Dichloro-1,1,1-trifluoroethane (	0.920	0.866	1.054	1.055	0.985	1.028	1.013	0.989	7.2
Protein	0.139	0.138	0.137	0.146	0.144	0.145	0.145	0.142	2.7
Dichlorotrifluoroethane	0.281	0.212	0.257	0.239	0.262	0.245	0.261	0.251	8.7
1,1-Dichloroethene	0.467	0.445	0.494	0.438	0.478	0.501	0.512	0.477	5.9
Acetone		0.392	0.373	0.351	0.344	0.365	0.359	0.364	4.7
Propanol	0.127	0.107	0.110	0.115	0.106	0.107	0.106	0.111	6.8
Iodomethane (Methyl Iodide)	0.429	0.462	0.481	0.510	0.504	0.491	0.528	0.486	6.8
Carbon Disulfide	2.518	2.276	2.173	2.349	2.359	2.168	2.405	2.321	5.4
Acetonitrile		0.137	0.146	0.132	0.140	0.146	0.149	0.142	4.5
Ethyl Chloride	1.467	1.493	1.665	1.509	1.674	1.516	1.537	1.551	5.4
Methyl Acetate	1.495	1.365	1.383	1.433	1.391	1.362	1.411	1.406	3.3
Methylene Chloride		0.764	0.715	0.664	0.721	0.675	0.728	0.711	5.1
tert-Butyl Alcohol	0.156	0.134	0.142	0.137	0.139	0.134	0.133	0.139	5.9
Acrylonitrile	0.395	0.407	0.414	0.398	0.426	0.417	0.407	0.409	2.7
Methyl tert-Butyl Ether	1.689	1.820	1.900	1.723	1.902	1.891	1.840	1.824	4.7
trans-1,2-Dichloroethene	0.813	0.625	0.634	0.576	0.648	0.644	0.655	0.656	11.3
1,1-Dichloroethane	1.461	1.382	1.470	1.330	1.458	1.427	1.475	1.429	3.8
Vinyl Acetate	1.160	1.335	1.325	1.375	1.443	1.349	1.350	1.334	6.4
2-Chloro-1,3-butadiene	0.903	0.878	0.951	0.976	0.944	0.936	1.019	0.944	4.9
2-Dichloropropane	1.186	1.019	0.947	0.869	0.941	0.900	0.930	0.970	10.9
2-Butanone (MEK)		0.791	0.735	0.768	0.784	0.750	0.761	0.765	2.7
cis-1,2-Dichloroethene	0.803	0.745	0.744	0.664	0.733	0.701	0.758	0.736	5.9
Acrylonitrile	0.190	0.153	0.175	0.164	0.174	0.171	0.176	0.172	6.5
Methacrylonitrile	0.324	0.345	0.394	0.370	0.405	0.385	0.408	0.376	8.4
Bromochloromethane	0.525	0.421	0.437	0.373	0.409	0.405	0.419	0.427	11.1
Chloroform		1.279	1.328	1.176	1.252	1.253	1.284	1.262	4.0
Tetrahydrofuran		0.597	0.524	0.441	0.444	0.453	0.433	0.482	13.5
1,1,1-Trichloroethane (TCA)	0.895	0.837	0.895	0.805	0.936	0.888	0.941	0.885	5.6
Cyclohexane		1.537	1.889	1.775	1.720	1.752	1.784	1.743	6.6
Dibromofluoromethane		0.387	0.403	0.382	0.420	0.415	0.392	0.400	3.8
Carbon Tetrachloride	0.488	0.433	0.447	0.434	0.467	0.456	0.489	0.459	4.2

Calibration ID: CAL673
Method ID: MJ115

Instrument ID: GC/MS Ins
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID							Mean RF	%RSD
	5401	5402	5403	5404	5405	5406	5407		
1,1-Dichloropropene	0.680	0.565	0.587	0.578	0.613	0.581	0.618	0.603	6.5
Isobutyl Alcohol	0.049	0.041	0.047	0.050	0.048	0.047	0.048	0.047	6.3
1,2-Dichloroethane-d4		0.395	0.398	0.388	0.433	0.417	0.399	0.405	4.1
Benzene	1.699	1.587	1.630	1.491	1.596	1.578	1.632	1.602	4.0
1,2-Dichloroethane (EDC)	0.647	0.564	0.593	0.557	0.577	0.568	0.578	0.583	5.2
n-Heptane	1.002	1.025	1.071	0.935	1.015	1.041	1.061	1.021	4.4
Trichloroethene (TCE)	0.416	0.364	0.406	0.398	0.419	0.407	0.438	0.407	5.6
Methylcyclohexane	0.871	0.786	0.896	0.896	0.821	0.850	0.902	0.860	5.1
1,2-Dichloropropane	0.678	0.528	0.564	0.542	0.566	0.544	0.581	0.572	8.7
Methyl Methacrylate		0.134	0.135	0.129	0.135	0.133	0.138	0.134	2.2
1,4-Dioxane		0.006	0.007	0.007	0.007	0.007	0.007	0.007	4.8
Dibromomethane	0.358	0.316	0.324	0.307	0.321	0.313	0.325	0.323	5.1
Bromodichloromethane	0.543	0.568	0.588	0.579	0.596	0.597	0.625	0.585	4.4
2-Nitropropane	0.224	0.190	0.200	0.198	0.220	0.216	0.210	0.208	6.1
2-Chloroethyl Vinyl Ether	0.526	0.397	0.399	0.401	0.401	0.391	0.423	0.420	11.4
cis-1,3-Dichloropropene	0.717	0.762	0.804	0.772	0.787	0.795	0.832	0.781	4.6
4-Methyl-2-pentanone (MIBK)	1.100	0.971	1.029	1.041	1.029	1.006	1.094	1.039	4.4
Toluene	1.830	1.664	1.757	1.616	1.689	1.655	1.803	1.716	4.7
trans-1,3-Dichloropropene	0.724	0.697	0.776	0.713	0.760	0.768	0.795	0.748	4.8
Ethyl Methacrylate	0.778	0.750	0.848	0.784	0.842	0.802	0.850	0.808	4.9
1,1,2-Trichloroethane	0.424	0.397	0.402	0.381	0.399	0.400	0.426	0.404	3.9
Toluene-d8		1.294	1.344	1.246	1.371	1.382	1.299	1.323	3.9
4-Bromofluorobenzene		0.560	0.571	0.516	0.602	0.587	0.585	0.570	5.3
Tetrachloroethene (PCE)	0.519	0.448	0.477	0.431	0.470	0.462	0.503	0.473	6.5
2-Hexanone	0.895	0.791	0.787	0.833	0.819	0.791	0.835	0.821	4.7
1,3-Dichloropropane	0.762	0.798	0.850	0.808	0.852	0.820	0.865	0.822	4.4
Dibromochloromethane	0.508	0.538	0.557	0.531	0.559	0.557	0.591	0.549	4.8
1,2-Dibromoethane (EDB)	0.505	0.500	0.547	0.504	0.515	0.518	0.536	0.518	3.4
Chlorobenzene	1.283	1.162	1.265	1.158	1.240	1.192	1.309	1.230	4.9
1,1,1,2-Tetrachloroethane	0.426	0.400	0.464	0.429	0.459	0.439	0.472	0.441	5.8
Ethylbenzene	1.987	2.027	2.054	1.869	2.076	1.987	2.107	2.015	3.9
m,p-Xylenes	0.723	0.735	0.767	0.670	0.755	0.737	0.782	0.738	4.9
o-Xylene	0.774	0.761	0.773	0.683	0.771	0.728	0.821	0.759	5.7
Styrene	1.247	1.239	1.343	1.190	1.297	1.253	1.381	1.279	5.1
Bromoform	0.420	0.405	0.421	0.400	0.431	0.418	0.454	0.421	4.2
Isopropylbenzene	1.832	1.853	1.989	1.815	2.020	1.917	2.057	1.926	5.0
Cyclohexanone	0.129	0.122	0.131	0.086	0.088	0.103	0.105	0.109	17.1#
1,1,2,2-Tetrachloroethane	1.734	1.591	1.602	1.545	1.610	1.479	1.575	1.591	4.9
trans-1,4-Dichloro-2-butene	0.327	0.327	0.352	0.328	0.363	0.339	0.354	0.342	4.4
1,2,3-Trichloropropane		0.396	0.395	0.368	0.404	0.383	0.402	0.391	3.5
n-Propylbenzene	5.495	5.148	5.493	4.839	5.273	5.059	5.432	5.249	4.7
Bromobenzene	1.012	1.230	1.142	1.034	1.125	1.059	1.124	1.104	6.8
1,3,5-Trimethylbenzene	3.302	3.308	3.471	3.056	3.328	3.177	3.485	3.304	4.6
2-Chlorotoluene	3.084	3.015	3.091	2.694	3.055	2.830	3.388	3.022	7.3
4-Chlorotoluene	3.175	3.082	3.122	2.771	3.189	3.006	3.190	3.076	4.9
tert-Butylbenzene	2.956	2.933	2.910	2.612	2.852	2.744	3.043	2.864	5.1
1,2,4-Trimethylbenzene	3.517	3.403	3.425	3.037	3.270	3.143	3.378	3.311	5.1
sec-Butylbenzene	4.907	4.297	4.596	4.026	4.450	4.375	4.638	4.470	6.3
4-Isopropyltoluene	3.927	3.564	3.888	3.465	3.783	3.683	3.920	3.747	4.9
1,3-Dichlorobenzene	2.110	2.081	2.070	1.863	2.032	1.936	2.059	2.022	4.4

43

Calibration ID: CAL673
Method ID: MJ115

Instrument ID: GC/MS Ins
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID							Mean RF	%RSD
	5401	5402	5403	5404	5405	5406	5407		
1,4-Dichlorobenzene	2.172	2.055	2.113	1.902	2.057	1.998	2.076	2.053	4.2
n-Butylbenzene	4.006	3.752	3.959	3.443	3.857	3.708	3.927	3.808	5.1
1,2-Dichlorobenzene	1.885	1.992	2.010	1.757	1.959	1.844	1.910	1.908	4.7
1,2-Dibromo-3-chloropropane (DBP)	0.455	0.353	0.336	0.312	0.340	0.328	0.351	0.354	13.3
Nitrobenzene		0.216	0.225	0.245	0.296	0.277		0.252	13.6
1,2,4-Trichlorobenzene	1.257	1.294	1.295	1.155	1.246	1.213	1.317	1.254	4.5
Hexachlorobutadiene	0.804	0.704	0.788	0.649	0.698	0.684	0.749	0.725	7.8
Naphthalene	3.776	3.392	3.388	3.107	3.269	3.260	3.473	3.381	6.2
1,2,3-Trichlorobenzene	1.058	1.218	1.192	1.030	1.168	1.125	1.208	1.143	6.5

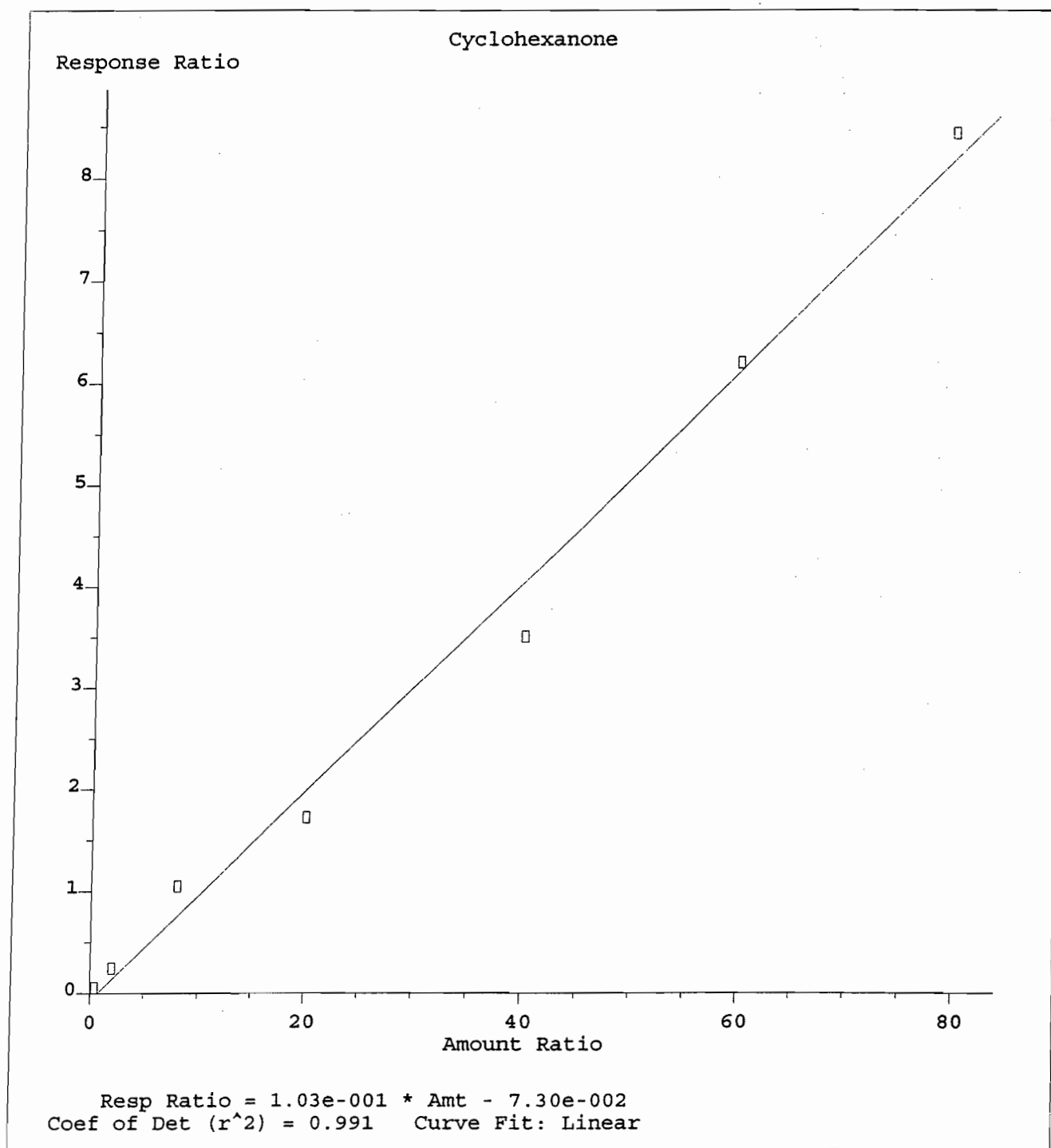
RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

Calibration ID: CAL673
Method ID: MJ115

Instrument ID: GC/MS Ins
Column Name: MS
Calibration Fit: Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
5401	J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D	10/03/2007 14:06	10/04/2007 15:00	10/04/2007 15:26
5402	J:\ACQUDATA\MSVOA7\DATA\100307\Q7775.D	10/03/2007 14:42	10/04/2007 14:57	10/04/2007 15:26
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5404	J:\ACQUDATA\MSVOA7\DATA\100307\Q7777.D	10/03/2007 15:56	10/04/2007 14:52	10/04/2007 15:26
5405	J:\ACQUDATA\MSVOA7\DATA\100307\Q7778.D	10/03/2007 16:32	10/04/2007 15:09	10/04/2007 15:26
5406	J:\ACQUDATA\MSVOA7\DATA\100307\Q7779.D	10/03/2007 17:09	10/04/2007 15:10	10/04/2007 15:26
5407	J:\ACQUDATA\MSVOA7\DATA\100307\Q7780.D	10/03/2007 17:45	10/04/2007 15:12	10/04/2007 15:26

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Cyclohexanone		0.103	-0.073	0.9911	0.109



Method Name: J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M
Calibration Table Last Updated: Thu Oct 04 09:29:33 2007

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:00 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

KR 10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.91	168	344021	50.00	ppb	0.00
39) 1,4 - Difluorobenzene	12.26	114	592894	50.00	ppb	0.00
58) d5 - Chlorobenzene	17.81	117	565893	50.00	ppb	0.00
81) d4 - Dichlorobenzene	22.60	152	265630	50.00	ppb	0.00

System Monitoring Compounds

40) surr4, Dibromomethane	10.94	113	221316	46.69	ppb	0.00
Spiked Amount	50.000		Recovery	=	93.38%	
44) surr1, 1,2-Dichloroethane	11.56	65	228196	47.50	ppb	0.00
Spiked Amount	50.000		Recovery	=	95.00%	
64) surr3, Toluene-d8	14.99	98	716424	47.86	ppb	0.00
Spiked Amount	50.000		Recovery	=	95.72%	
65) surr2, bfb	20.16	95	285588	44.25	ppb	0.00
Spiked Amount	50.000		Recovery	=	88.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.25	85	4235	1.03	ppb	# 67
3) Chloromethane	4.66	50	6299	1.07	ppb	# 41
4) Vinyl Chloride	4.89	62	3795	0.89	ppb	94
5) Bromomethane	5.58	96	4355	1.26	ppb	98
6) Chloroethane	5.77	64	4695	1.32	ppb	# 82
7) Trichlorofluoromethane	6.24	101	4840	0.89	ppb	# 71
8) Diethyl Ether	6.75	59	4587m	1.11	ppb	
9) FREON 123A	6.71	67	7008	1.06	ppb	# 84
10) FREON 123	6.80	83	6333	0.93	ppb	90
11) Acrolein	6.97	56	4770m	4.88	ppb	
12) FREON 113	7.14	85	1936	1.12	ppb	# 47
13) 1,1-Dichloroethene	7.19	96	3214m	0.98	ppb	
14) Acetone	7.23	43	7557	3.02	ppb	# 76
15) 2-Propanol	7.37	45	17418	22.77	ppb	# 88
16) Iodomethane	7.50	127	2954	0.88	ppb	92
17) Carbon Disulfide	7.66	76	17326	1.08	ppb	# 77
18) Acetonitrile	7.70	41	4767	4.89	ppb	# 2
19) Allyl Chloride	7.79	41	10092m	0.92	ppb	
20) Methyl Acetate	7.76	43	10283	1.06	ppb	# 87
21) Methylene Chloride	8.00	84	7654	1.56	ppb	87
22) TBA	8.05	59	21492	22.44	ppb	# 83
23) Acrylonitrile	8.37	53	13588	4.73	ppb	83
24) Methyl-t-Butyl Ether	8.42	73	11623	0.93	ppb	# 92
25) trans-1,2-Dichloroethene	8.48	96	5596	1.24	ppb	# 73
26) 1,1-Dichloroethane	9.19	63	10054	1.02	ppb	90
27) Vinyl Acetate	9.17	43	7982	0.87	ppb	# 96
28) 2-Chloro-1,3-butadiene	9.35	53	6211	0.96	ppb	91
29) 2,2-Dichloropropane	10.18	77	8158	1.22	ppb	# 91
30) 2-Butanone	10.12	43	5915	1.12	ppb	97
31) cis-1,2-Dichloroethene	10.17	96	5525	1.09	ppb	81
32) Propionitrile	10.22	54	6520	5.53	ppb	96
33) Methacrylonitrile	10.50	67	2230	0.86	ppb	47
34) Bromochloromethane	10.58	128	3609	1.25	ppb	89
35) Chloroform	10.66	83	10483	1.21	ppb	87
36) Tetrahydrofuran	10.67	42	12701	3.83	ppb	97

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

Q7774.D SOL1003.M Thu Oct 04 15:01:58 2007

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:00 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.05	97	6160	1.01	ppb	# 61
38) Cyclohexane	11.20	56	16109	1.34	ppb	# 84
41) Carbontetrachloride	11.36	117	5787	1.06	ppb	# 67
42) 1,1-Dichloropropene	11.32	75	8067	1.13	ppb	# 87
43) Iso-Butyl Alcohol	11.27	43	11706	20.96	ppb	96
45) Benzene	11.71	78	20152	1.06	ppb	86
46) 1,2-Dichloroethane	11.69	62	7677	1.11	ppb	# 89
47) N-Heptane	12.04	43	11878	0.98	ppb	# 89
48) Trichloroethene	12.77	95	4931	1.04	ppb	# 47
49) Methylcyclohexane	13.18	55	10332	1.01	ppb	# 79
50) 1,2-Dichloropropane	13.21	63	8034	1.18	ppb	97
51) Methyl Methacrylate	13.25	100	2246	1.41	ppb	98
52) 1,4-Dioxane	13.38	88	1936	24.60	ppb	78
53) Dibromomethane	13.43	93	4248	1.11	ppb	# 73
54) Bromodichloromethane	13.65	83	6433	0.93	ppb	# 85
55) 2-Nitropropane	14.02	43	5323	2.15	ppb	# 69
56) 2-Chloroethylvinyl Ether	14.09	63	6238	1.31	ppb	# 90
57) cis-1,3-Dichloropropene	14.45	75	8505	0.92	ppb	# 81
59) 4-Methyl-2-Pentanone	14.66	43	12445	1.06	ppb	# 81
60) Toluene	15.13	91	20715	1.07	ppb	97
61) trans-1,3-Dichloropropene	15.46	75	8196	0.97	ppb	94
62) Ethyl Methacrylate	15.50	69	8810	0.96	ppb	92
63) 1,1,2-Trichloroethane	15.83	83	4799	1.05	ppb	# 78
66) Tetrachloroethene	16.20	166	5871	1.10	ppb	# 72
67) 2-Hexanone	16.23	43	10128	1.09	ppb	# 81
68) 1,3-Dichloropropane	16.19	76	8621	0.93	ppb	91
70) Dibromochloromethane	16.65	129	5746	0.93	ppb	88
71) 1,2-Dibromoethane	16.95	107	5710	0.97	ppb	85
72) Chlorobenzene	17.87	112	14525	1.04	ppb	97
73) 1,1,1,2-Tetrachloroethane	18.00	131	4820	0.97	ppb	# 79
74) Ethylbenzene	18.03	91	22489	0.99	ppb	97
75) (m+p)Xylene	18.26	106	16356	1.96	ppb	81
76) o-Xylene	19.07	106	8759	1.02	ppb	99
77) Styrene	19.09	104	14112	0.98	ppb	93
78) Bromoform	19.54	173	4758	1.00	ppb	99
79) Isopropylbenzene	19.79	105	20733	0.95	ppb	# 87
80) Cyclohexanone	20.06	55	29308	60.44	ppb	90
82) 1,1,2,2-Tetrachloroethane	20.38	83	9212	1.09	ppb	# 75
83) Trans-1,4-Dichloro-2-buten	20.49	53	1737	0.96	ppb	# 29
84) 1,2,3-Trichloropropane	20.51	110	2358	1.13	ppb	# 79
85) n-Propylbenzene	20.65	91	29195	1.05	ppb	92
86) Bromobenzene	20.55	156	5376	0.92	ppb	93
87) 1,3,5-Trimethylbenzene	20.98	105	17544	1.00	ppb	90
88) 2-Chlorotoluene	20.90	91	16385	1.02	ppb	92
89) 4-Chlorotoluene	21.11	91	16866	1.03	ppb	# 83
90) tert-Butylbenzene	21.70	119	15705	1.04	ppb	88
91) 1,2,4-Trimethylbenzene	21.79	105	18683	1.06	ppb	96
92) sec-Butylbenzene	22.15	105	26068	1.10	ppb	# 83
93) p-Isopropyltoluene	22.42	119	20864	1.05	ppb	94
94) 1,3-Dichlorobenz	22.48	146	11207	1.04	ppb	# 83

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

Q7774.D SOL1003.M Thu Oct 04 15:01:59 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D

Vial: 27

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:00 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.67	146	11541	1.06	ppb #	84
96) n-Butylbenzene	23.34	91	21280	1.05	ppb	93
97) 1,2-Dclbenz	23.53	146	10013	0.99	ppb	93
98) 1,2-Dibromo-3-chloropropan	25.39	157	2419	1.29	ppb #	68
100) 1,2,4-Tcbenzene	27.47	180	6679	1.00	ppb	99
101) Hexachlorobu	27.82	225	4270	1.11	ppb	98
102) Naphthalen	28.11	128	20060	1.11	ppb #	92
103) 1,2,3-Tclbenzene	28.71	180	5621	0.93	ppb	88

(#) = qualifier out of range (m) = manual integration
Q7774.D SOL1003.M Thu Oct 04 15:01:59 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D

Vial: 27

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:58 2007

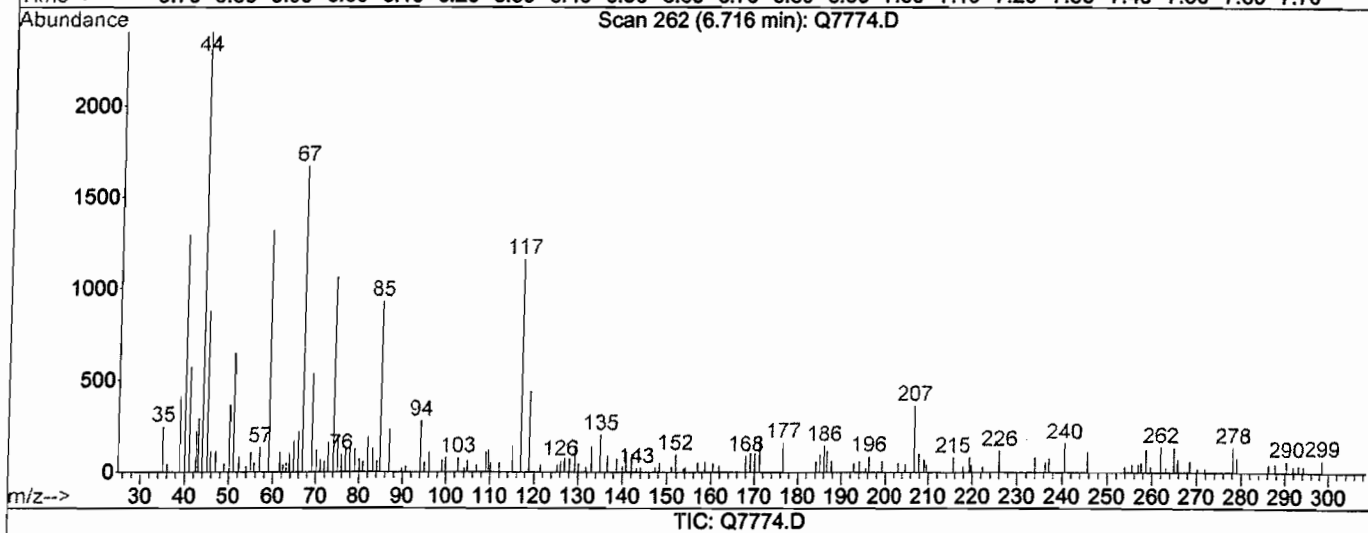
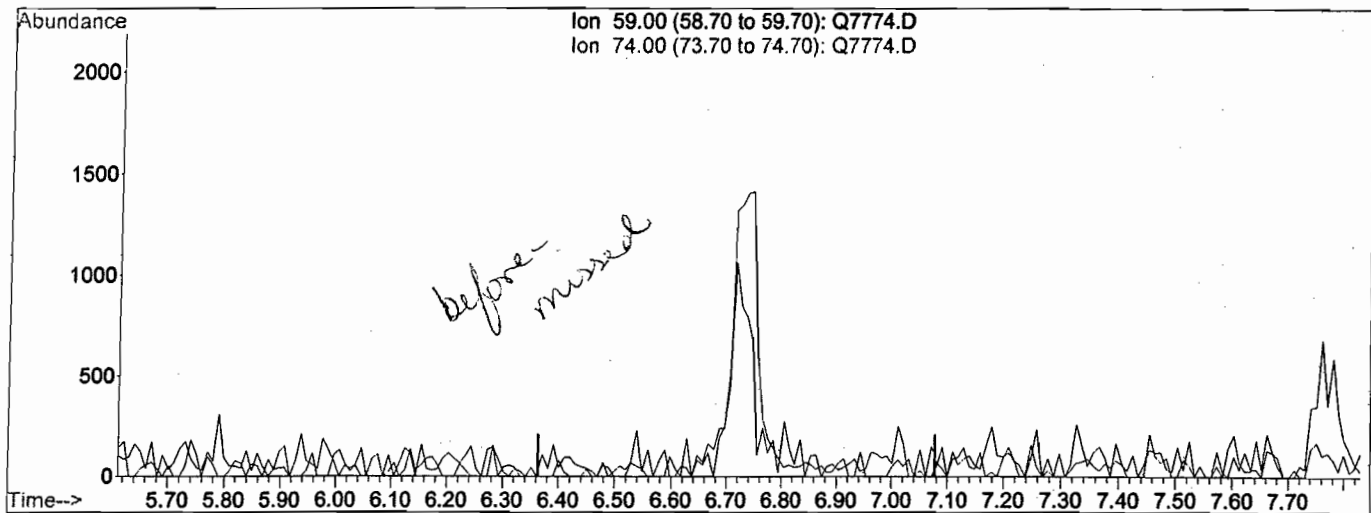
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Multiple Level Calibration



(8) Diethyl Ether

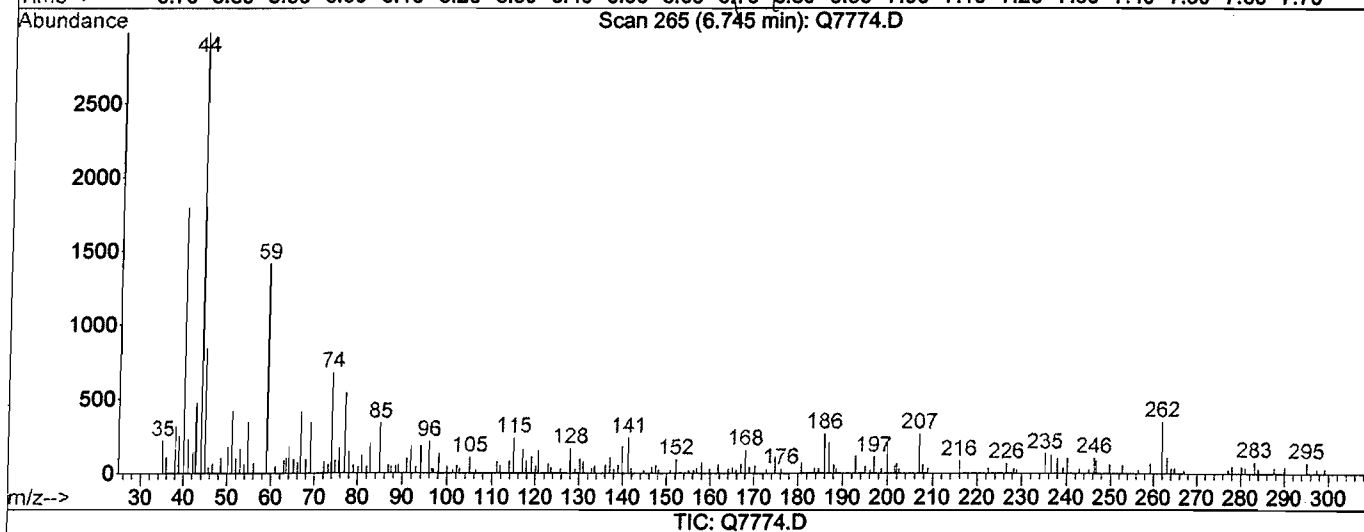
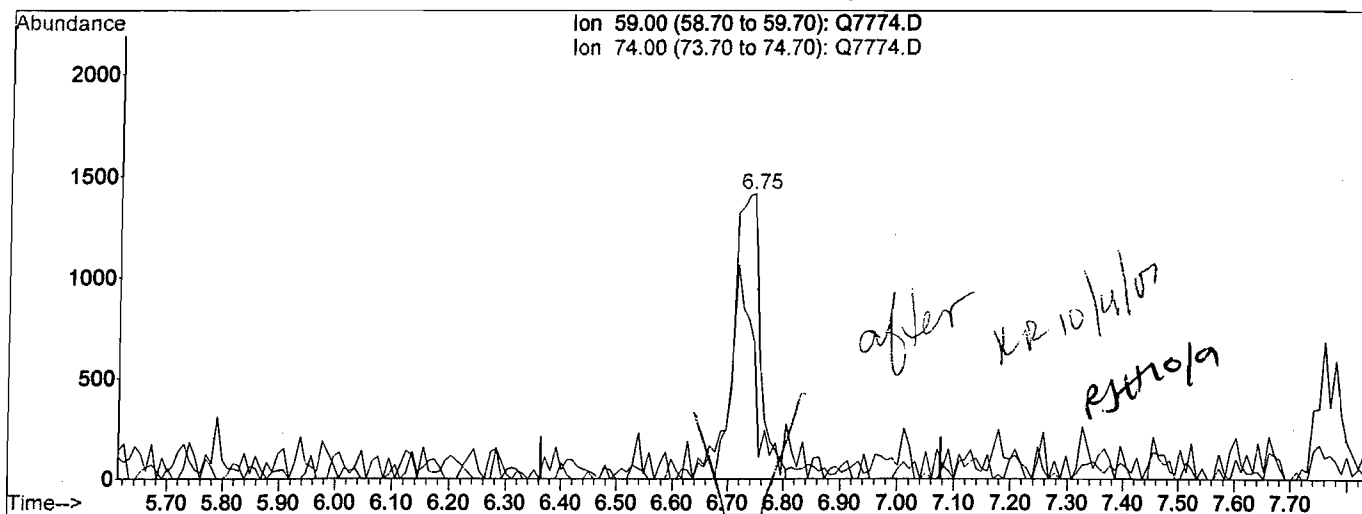
6.72min 0.00ppb

response 0

Ion	Exp%	Act%
59.00	100	0.00
74.00	56.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D Vial: 27
 Acq On : 3 Oct 2007 2:06 pm Operator: K.Ruest
 Sample : 1 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 4 14:59 2007 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
 Title : 8260voa
 Last Update : Thu Oct 04 14:58:55 2007
 Response via : Multiple Level Calibration



(8) Diethyl Ether

6.75min 1.11ppb m

response 4587

Ion	Exp%	Act%
59.00	100	100
74.00	56.60	47.84
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D

Vial: 27

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:59 2007

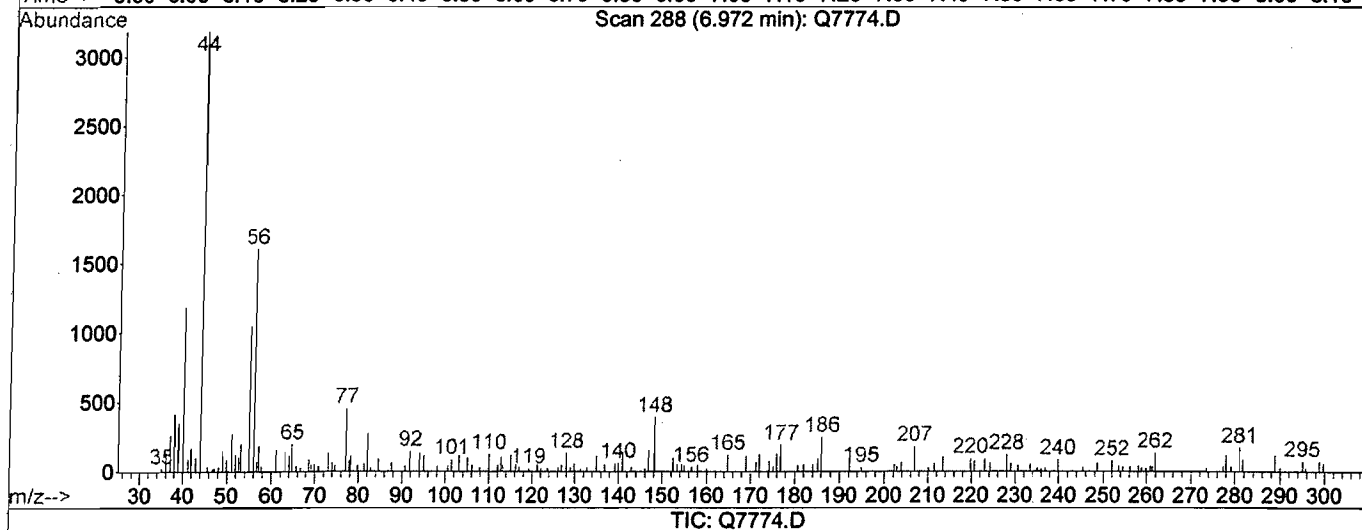
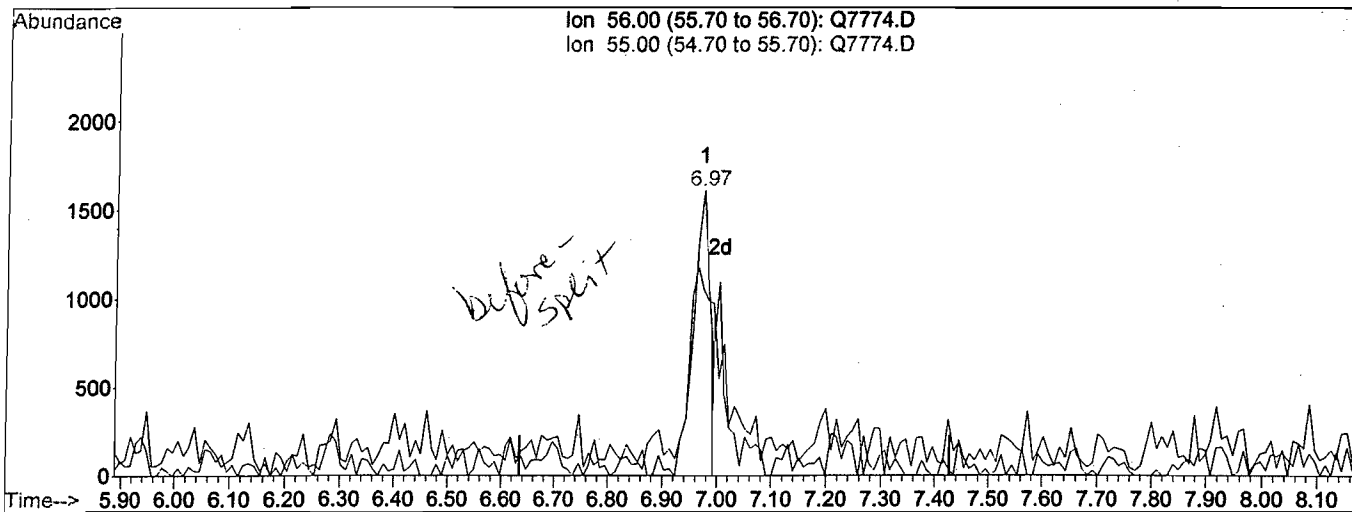
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Multiple Level Calibration



(11) Acrolein

6.97min 3.60ppb

response 3517

Ion	Exp%	Act%
56.00	100	100
55.00	67.10	65.20
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D

Vial: 27

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:00 2007

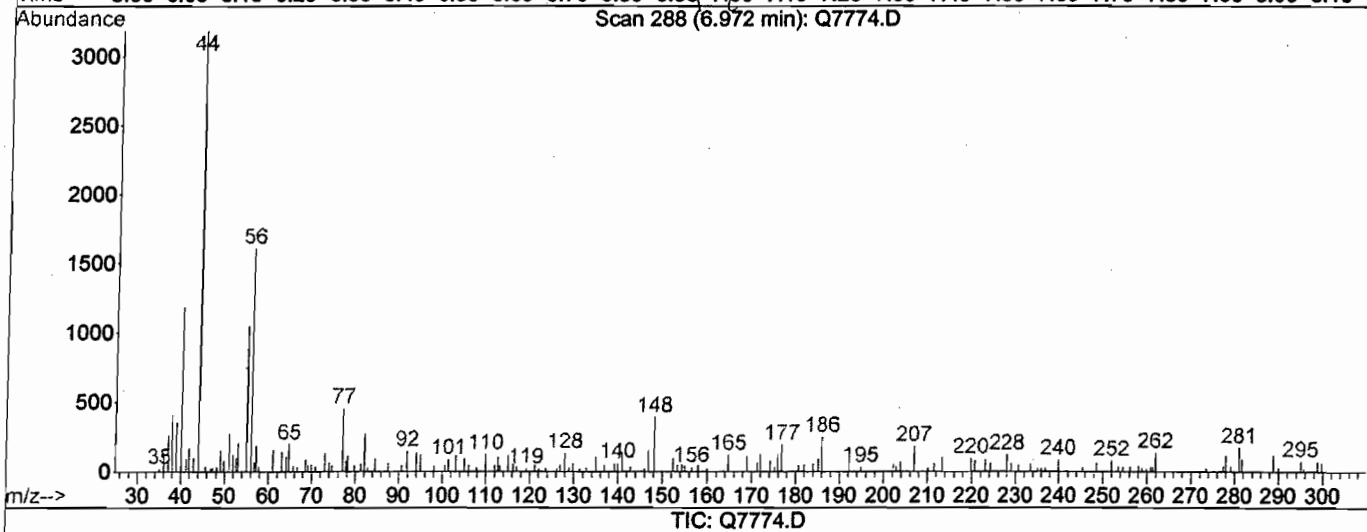
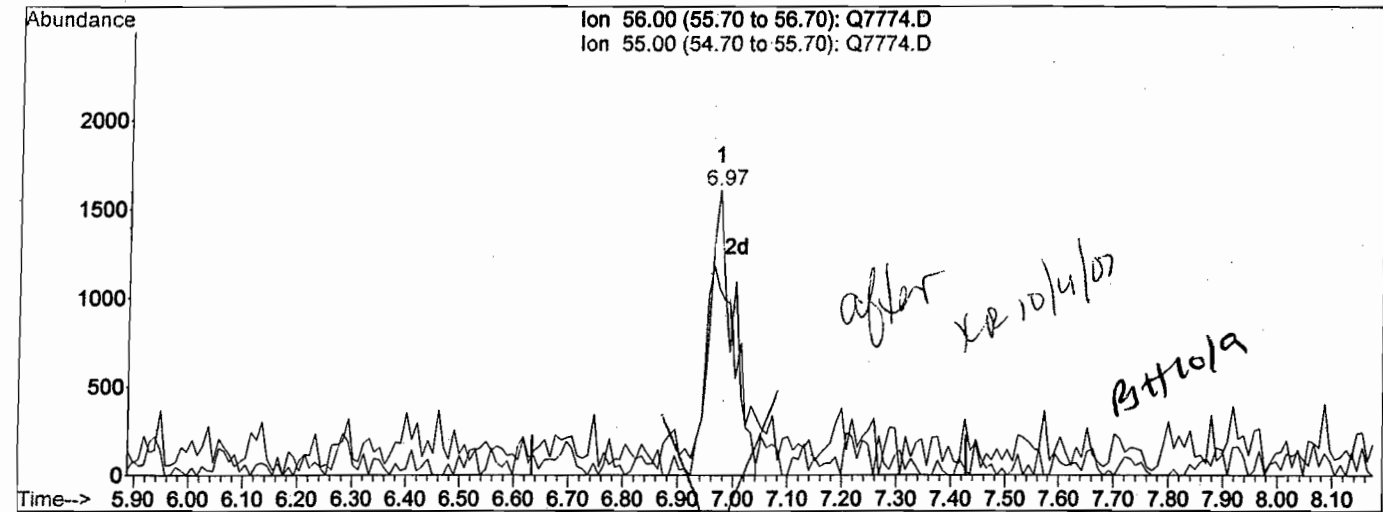
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Multiple Level Calibration



(11) Acrolein

6.97min 4.88ppb m

response 4770

Ion	Exp%	Act%
56.00	100	100
55.00	67.10	65.20
0.00	0.00	0.00
0.00	0.00	0.00

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:00 2007

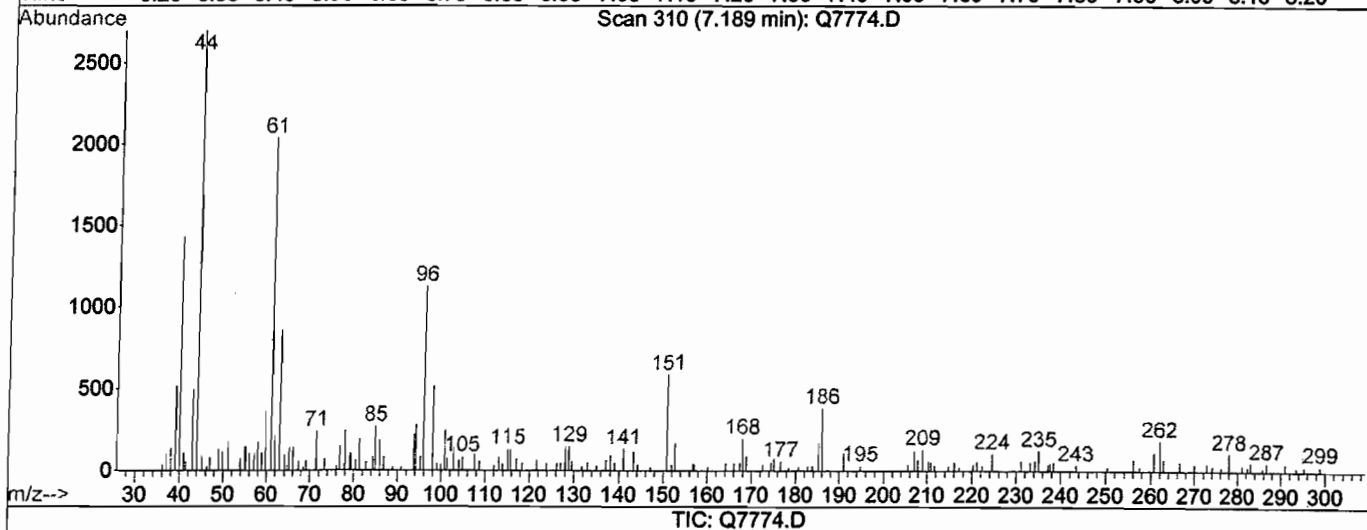
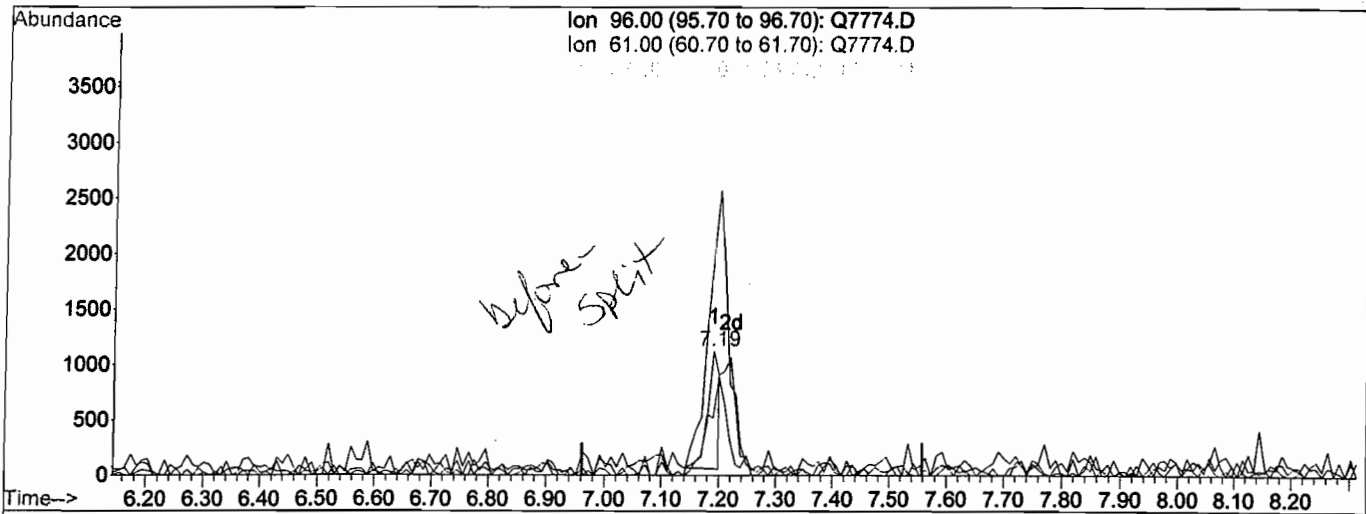
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Multiple Level Calibration



(13) 1,1-Dichloroethene (c)

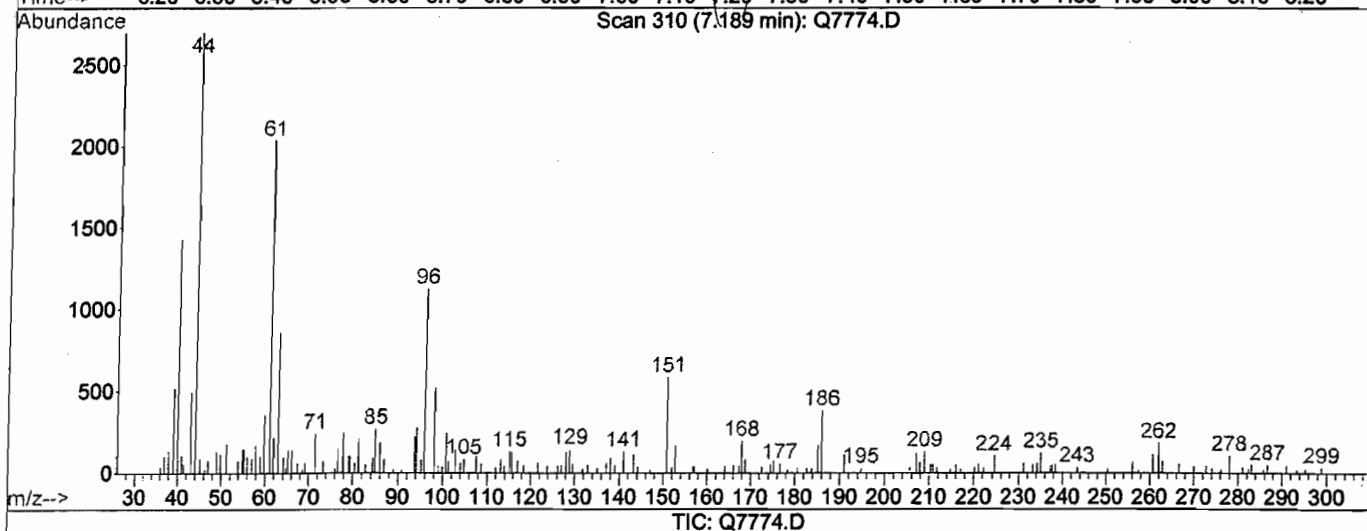
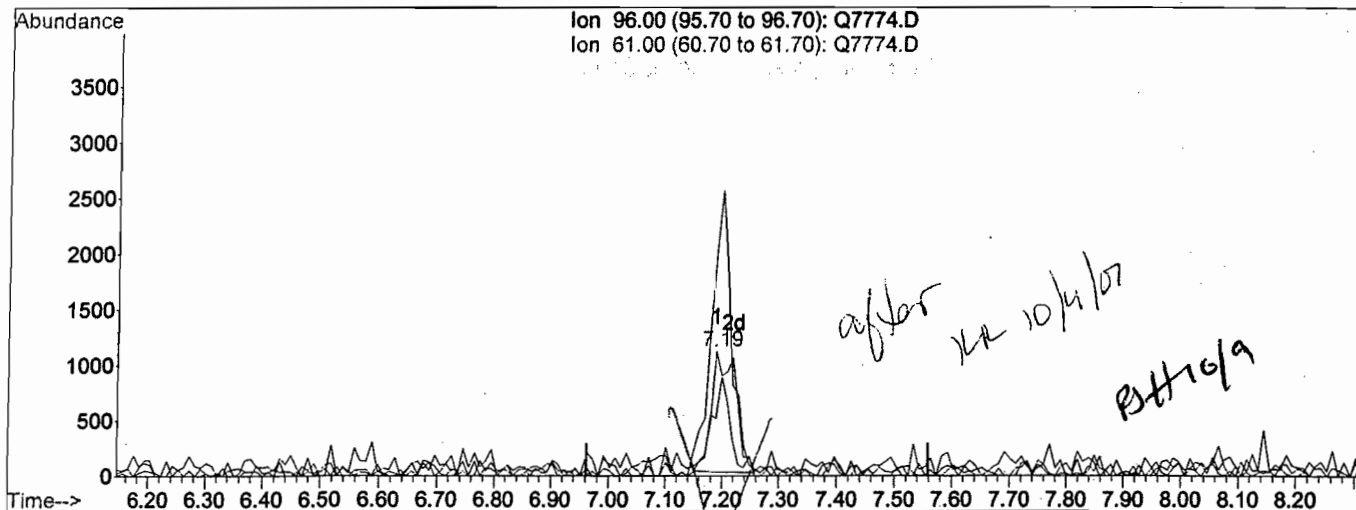
7.19min 0.46ppb

response 1502

Ion	Exp%	Act%
96.00	100	100
61.00	206.50	181.24
98.00	61.50	45.96#
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D Vial: 27
 Acq On : 3 Oct 2007 2:06 pm Operator: K.Ruest
 Sample : 1 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 4 15:00 2007 Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
 Title : 8260voa
 Last Update : Thu Oct 04 14:58:55 2007
 Response via : Multiple Level Calibration



(13) 1,1-Dichloroethene (c)

7.19min 0.98ppb m

response 3214

Ion	Exp%	Act%
96.00	100	100
61.00	206.50	181.24
98.00	61.50	45.96#
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D

Vial: 27

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:00 2007

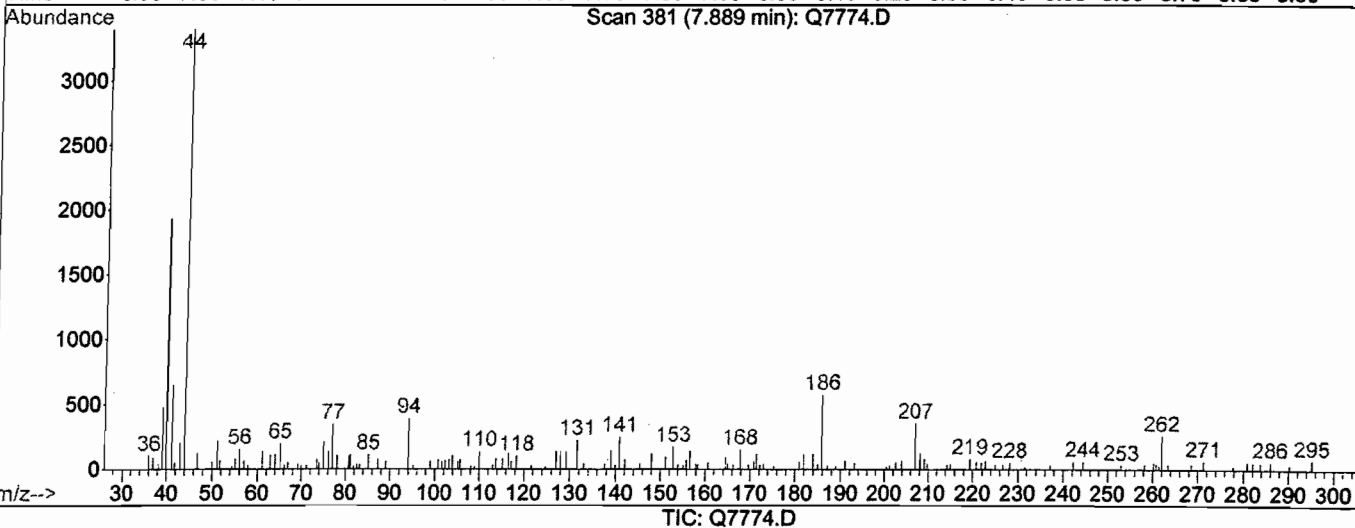
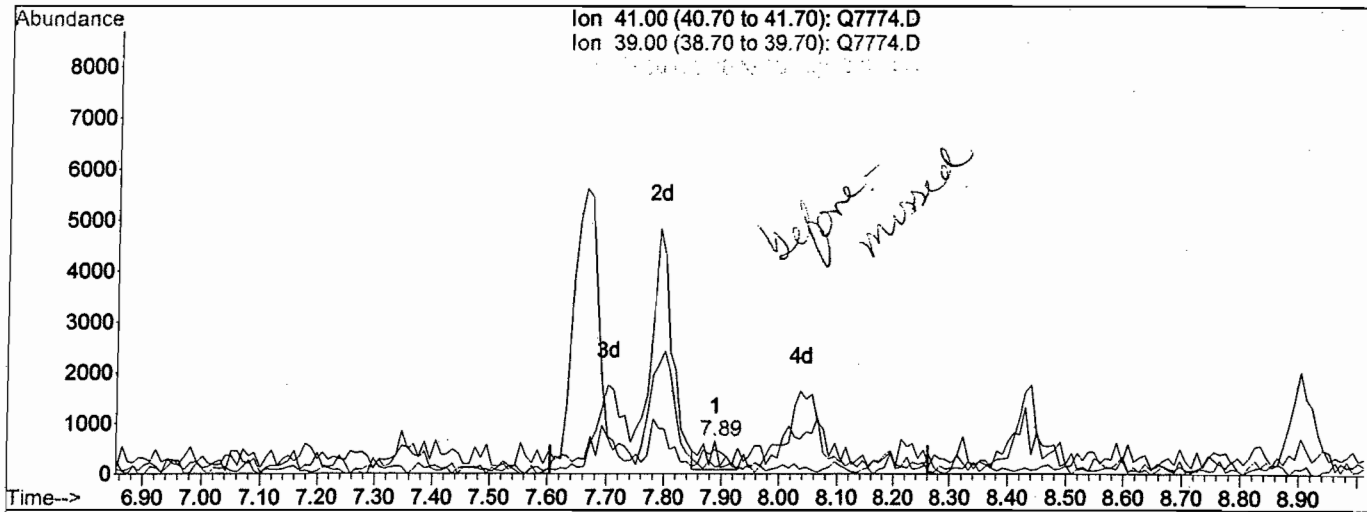
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Multiple Level Calibration



(19) Allyl Chloride

7.89min 0.09ppb

response 1008

Ion	Exp%	Act%
-----	------	------

41.00	100	100
-------	-----	-----

39.00	58.50	73.43
-------	-------	-------

76.00	23.90	21.20
-------	-------	-------

0.00	0.00	0.00
------	------	------

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7774.D

Vial: 27

Acq On : 3 Oct 2007 2:06 pm

Operator: K.Ruest

Sample : 1 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:00 2007

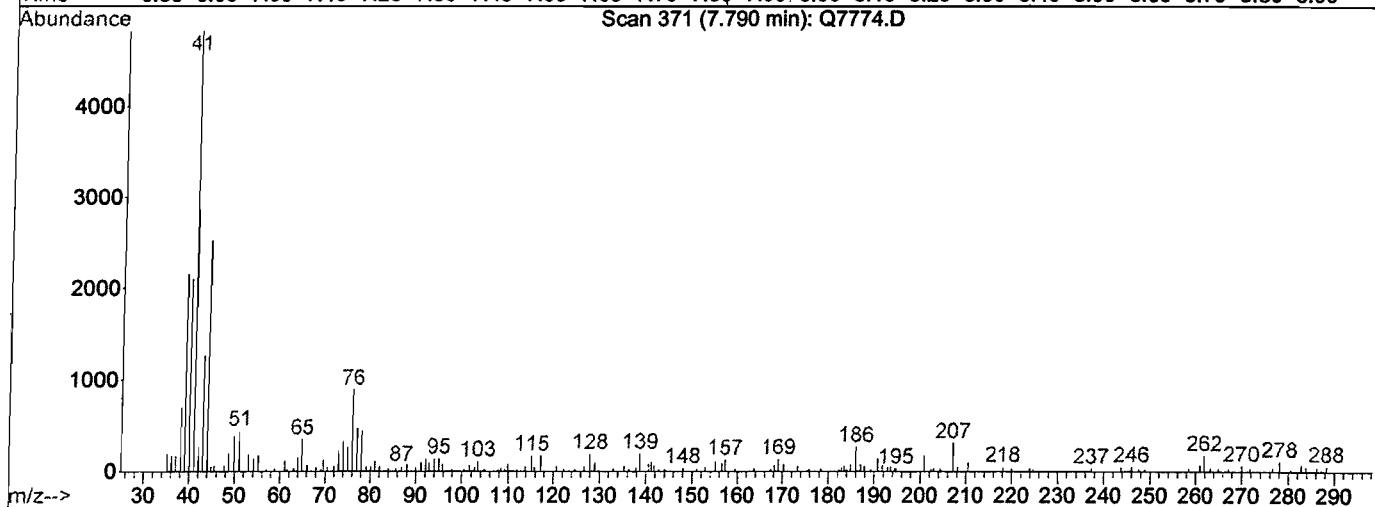
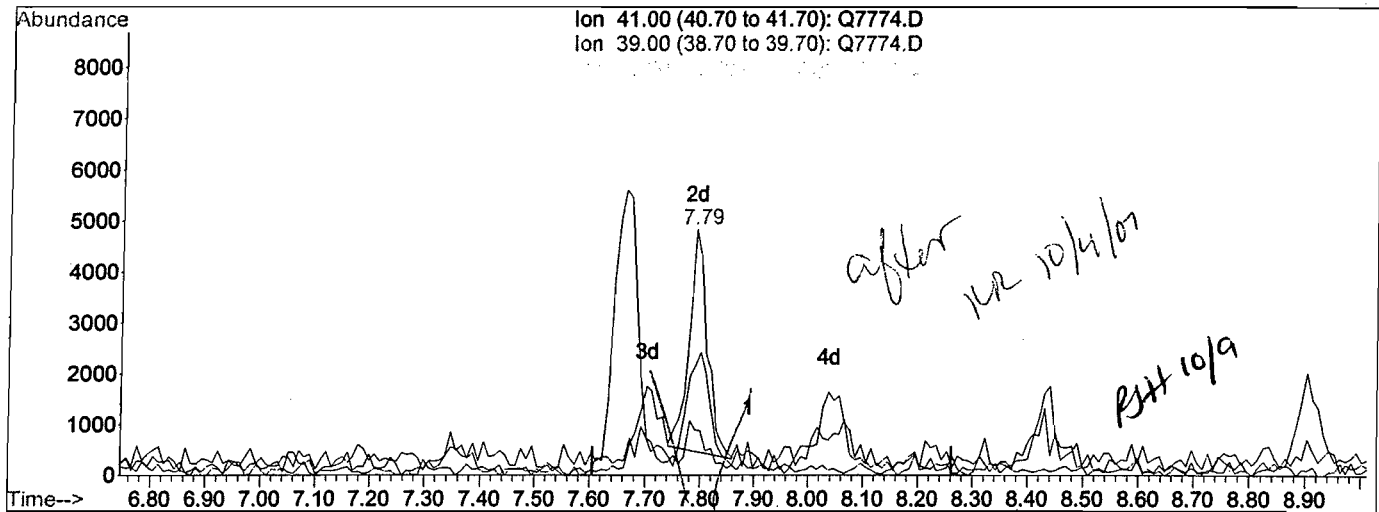
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:58:55 2007

Response via : Multiple Level Calibration



TIC: Q7774.D

(19) Allyl Chloride

7.79min 0.92ppb m

response 10092

Ion	Exp%	Act%
41.00	100	100
39.00	58.50	44.64
76.00	23.90	18.43#
0.00	0.00	0.00

Vial: 27
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00
lts File: SOL1003.RES

```
Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title  : 8260voa
Last Update : Thu Oct 04 14:58:55 2007
Response via : Initial Calibration
```



Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7775.D

Vial: 28

Acq On : 3 Oct 2007 2:42 pm

Operator: K.Ruest

Sample : 5 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:57 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:56:22 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.91	168	338407	50.00	ppb	0.00
39) 1,4 - Difluorobenzene	12.26	114	603651	50.00	ppb	0.00
58) d5 - Chlorobenzene	17.82	117	567582	50.00	ppb	0.00
81) d4 - Dichlorobenzene	22.61	152	259253	50.00	ppb	0.00
System Monitoring Compounds						
40) surr4, Dibrflmethane	10.94	113	280128	58.04	ppb	0.00
Spiked Amount 50.000			Recovery	=	116.08%	
44) surr1, 1,2-Dicethane	11.56	65	286474	58.57	ppb	0.00
Spiked Amount 50.000			Recovery	=	117.14%	
64) surr3, Toluene-d8	14.99	98	881141	58.69	ppb	0.00
Spiked Amount 50.000			Recovery	=	117.38%	
65) surr2, bfb	20.16	95	381754	58.98	ppb	0.00
Spiked Amount 50.000			Recovery	=	117.96%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	4.25	85	16976	4.20	ppb	99
3) Chloromethane	4.66	50	25715	4.42	ppb	92
4) Vinyl Chloride	4.89	62	20521	4.90	ppb	95
5) Bromomethane	5.58	96	14508	4.27	ppb	# 77
6) Chloroethane	5.76	64	16956	4.92	ppb	# 76
7) Trichlorofluoromethane	6.26	101	23966m	4.46	ppb	
8) Diethyl Ether	6.72	59	18780	4.61	ppb	93
9) FREON 123A	6.70	67	29853	4.57	ppb	97
10) FREON 123	6.80	83	29296	4.38	ppb	95
11) Acrolein	6.98	56	23374	24.30	ppb	99
12) FREON 113	7.15	85	7168	4.22	ppb	99
13) 1,1-Dicethene	7.19	96	15066	4.67	ppb	88
14) Acetone	7.22	43	13254	5.38	ppb	# 83
15) 2-Propanol	7.35	45	72323	96.10	ppb	# 88
16) Iodomethane	7.50	127	15643	4.75	ppb	69
17) Carbon Disulfide	7.66	76	77031	4.90	ppb	98
18) Acetonitrile	7.70	41	23176	24.15	ppb	# 68
19) Allyl Chloride	7.79	41	50508	4.64	ppb	93
20) Methyl Acetate	7.76	43	46208	4.86	ppb	95
21) Methylene Chloride	7.99	84	25840	5.37	ppb	99
22) TBA	8.04	59	90490	96.05	ppb	94
23) Acrylonitrile	8.38	53	68833	24.34	ppb	99
24) Methyl-t-Butyl Ether	8.43	73	61582	4.99	ppb	98
25) trans-1,2-Dichloroethene	8.46	96	21153	4.76	ppb	# 74
26) 1,1-Dicethane	9.19	63	46753	4.83	ppb	# 88
27) Vinyl Acetate	9.17	43	45165	5.00	ppb	# 94
28) 2-Chloro-1,3-butadiene	9.34	53	29711	4.65	ppb	92
29) 2,2-Dichloropropane	10.18	77	34468	5.25	ppb	99
30) 2-Butanone	10.11	43	26760	5.17	ppb	99
31) cis-1,2-Dichloroethene	10.15	96	25211	5.07	ppb	85
32) Propionitrile	10.23	54	25925	22.36	ppb	95
33) Methacrylonitrile	10.50	67	11676	4.59	ppb	89
34) Bromochloromethane	10.58	128	14247	5.04	ppb	91
35) Chloroform	10.66	83	43285	5.07	ppb	98
36) Tetrahydrofuran	10.65	42	20198	6.19	ppb	95

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

Q7775.D SOL1003.M Thu Oct 04 14:58:37 2007

Acq On : 3 Oct 2007 2:42 pm

Operator: K.Ruest

Sample : 5 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:57 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:56:22 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.06	97	28330	4.73	ppb	# 79
38) Cyclohexane	11.18	56	52021	4.41	ppb	# 89
41) Carbontetrachloride	11.36	117	26120	4.71	ppb	# 90
42) 1,1-Dichloropropene	11.32	75	34093	4.68	ppb	# 84
43) Iso-Butyl Alcohol	11.26	43	49264	86.64	ppb	99
45) Benzene	11.71	78	95823	4.95	ppb	92
46) 1,2-Dichloroethane	11.69	62	34062	4.84	ppb	# 87
47) N-Heptane	12.03	43	61852	5.07	ppb	89
48) Trichloroethene	12.78	95	21962	4.55	ppb	89
49) Methylcyclohexane	13.19	55	47472	4.57	ppb	96
50) 1,2-Dichloropropane	13.20	63	31895	4.62	ppb	100
51) Methyl Methacrylate	13.24	100	8092	5.01	ppb	# 75
52) 1,4-Dioxane	13.39	88	7321	91.38	ppb	# 65
53) Dibromomethane	13.43	93	19055	4.90	ppb	96
54) Bromodichloromethane	13.65	83	34305	4.86	ppb	99
55) 2-Nitropropane	14.02	43	22986	9.14	ppb	# 92
56) 2-Chloroethylvinyl Ether	14.10	63	23954	4.95	ppb	96
57) cis-1,3-Dichloropropene	14.45	75	46004	4.88	ppb	95
59) 4-Methyl-2-Pentanone	14.66	43	55132	4.68	ppb	90
60) Toluene	15.12	91	94438	4.85	ppb	100
61) trans-1,3-Dichloropropene	15.44	75	39558	4.66	ppb	96
62) Ethyl Methacrylate	15.51	69	42564	4.65	ppb	94
63) 1,1,2-Trichloroethane	15.83	83	22521	4.91	ppb	97
66) Tetrachloroethene	16.19	166	25420	4.74	ppb	88
67) 2-Hexanone	16.21	43	44890	4.82	ppb	99
68) 1,3-Dichloropropane	16.17	76	45287	4.85	ppb	84
70) Dibromochloromethane	16.64	129	30534	4.90	ppb	95
71) 1,2-Dibromoethane	16.95	107	28358	4.83	ppb	88
72) Chlorobenzene	17.87	112	65958	4.72	ppb	92
73) 1,1,1,2-Tetrachloroethane	17.99	131	22675	4.53	ppb	95
74) Ethylbenzene	18.03	91	115068	5.03	ppb	96
75) (m+p)Xylene	18.25	106	83396	9.95	ppb	95
76) o-Xylene	19.08	106	43191	5.01	ppb	93
77) Styrene	19.09	104	70344	4.85	ppb	97
78) Bromoform	19.55	173	22987	4.81	ppb	98
79) Isopropylbenzene	19.80	105	105176	4.81	ppb	100
80) Cyclohexanone	20.06	55	138647	153.65	ppb	99
82) 1,1,2,2-Tetrachloroethane	20.36	83	41260	5.00	ppb	100
83) Trans-1,4-Dichloro-2-buten	20.47	53	8481	4.74	ppb	97
84) 1,2,3-Trichloropropane	20.51	110	10273	5.06	ppb	99
85) n-Propylbenzene	20.65	91	133469	4.93	ppb	95
86) Bromobenzene	20.54	156	31878	5.57	ppb	95
87) 1,3,5-Trimethylbenzene	20.97	105	85759	5.01	ppb	98
88) 2-Chlorotoluene	20.90	91	78155	4.99	ppb	91
89) 4-Chlorotoluene	21.11	91	79899	4.98	ppb	91
90) tert-Butylbenzene	21.69	119	76036	5.19	ppb	96
91) 1,2,4-Trimethylbenzene	21.79	105	88219	5.15	ppb	98
92) sec-Butylbenzene	22.15	105	111395	4.81	ppb	96
93) p-Isopropyltoluene	22.42	119	92399	4.75	ppb	98
94) 1,3-Dichlorobenz	22.48	146	53947	5.15	ppb	99

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

Q7775.D SOL1003.M Thu Oct 04 14:58:38 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7775.D

Vial: 28

Acq On : 3 Oct 2007 2:42 pm

Operator: K.Ruest

Sample : 5 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:57 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:56:22 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.66	146	53271	5.00	ppb	97
96) n-Butylbenzene	23.34	91	97281	4.94	ppb	89
97) 1,2-Dclbenz	23.53	146	51653	5.20	ppb	94
98) 1,2-Dibromo-3-chloropropan	25.40	157	9153	5.05	ppb #	80
99) Nitrobenzene	25.94	77	5587	4.28	ppb #	72
100) 1,2,4-Tcbenzene	27.48	180	33535	5.16	ppb	96
101) Hexachlorobu	27.82	225	18253	4.85	ppb	95
102) Naphthalen	28.12	128	87940	4.98	ppb #	94
103) 1,2,3-Tclbenzene	28.71	180	31575	5.33	ppb	85

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

Q7775.D SOL1003.M Thu Oct 04 14:58:38 2007

Acq On : 3 Oct 2007 2:42 pm

Operator: K.Ruest

Sample : 5 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:55 2007

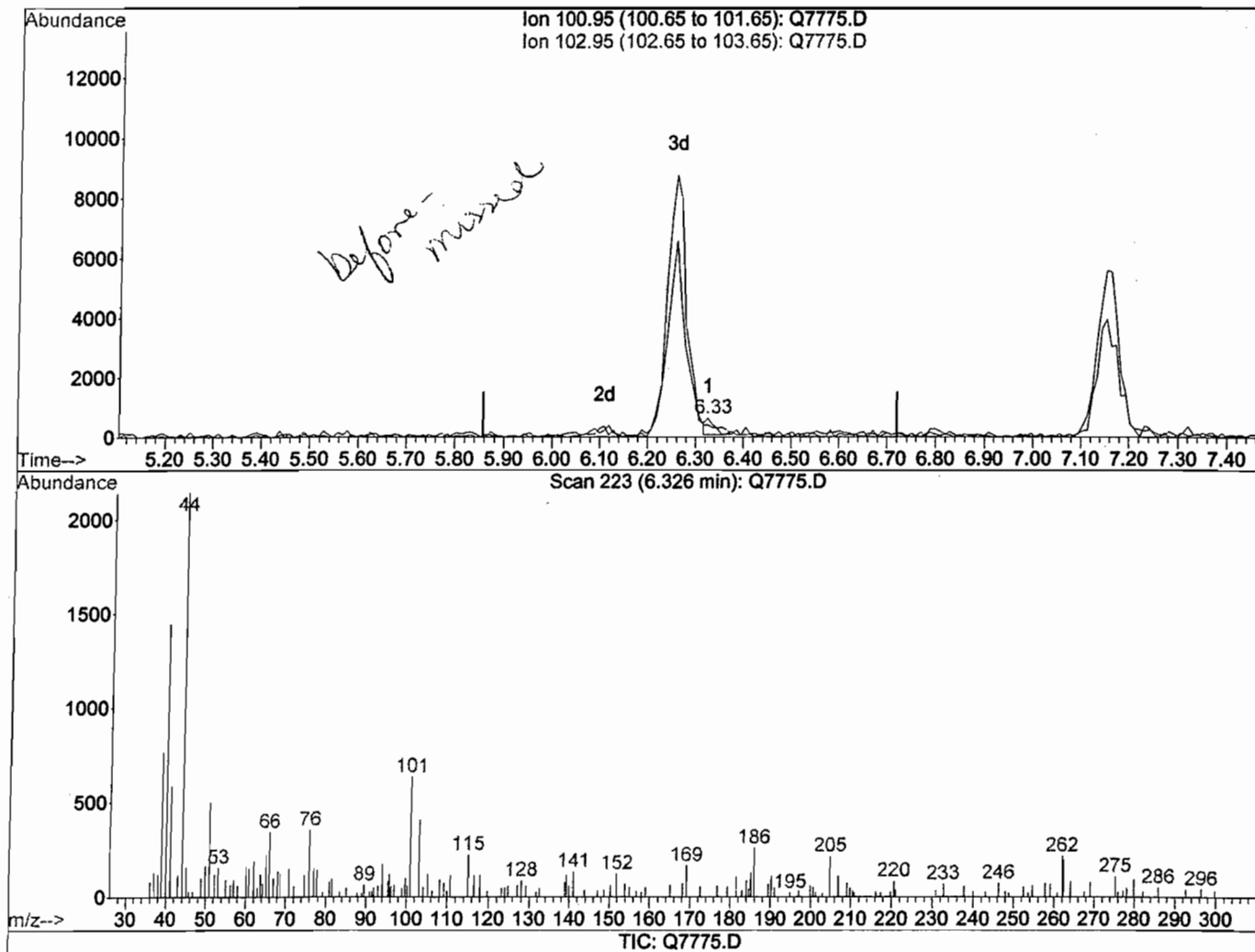
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 14:56:22 2007

Response via : Multiple Level Calibration



(7) Trichlorofluoromethane

6.33min 0.16ppb

response 881

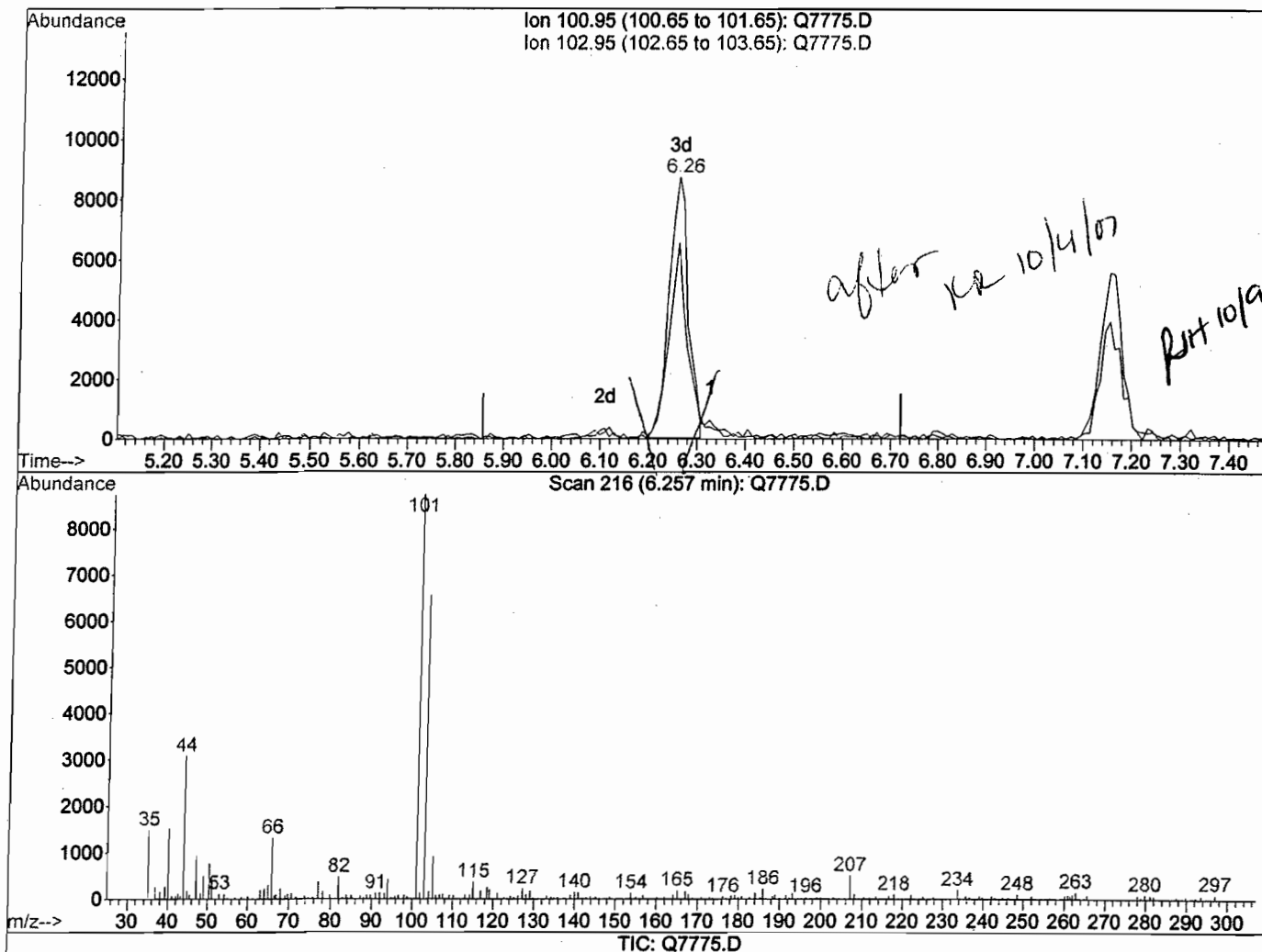
Ion	Exp%	Act%
100.95	100	100
102.95	62.20	64.20
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7775.D
Acq On : 3 Oct 2007 2:42 pm
Sample : 5 PPB
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 4 14:57 2007

Vial: 28
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title : 8260voa
Last Update : Thu Oct 04 14:56:22 2007
Response via : Multiple Level Calibration



(7) Trichlorofluoromethane

6.26min 4.46ppb m

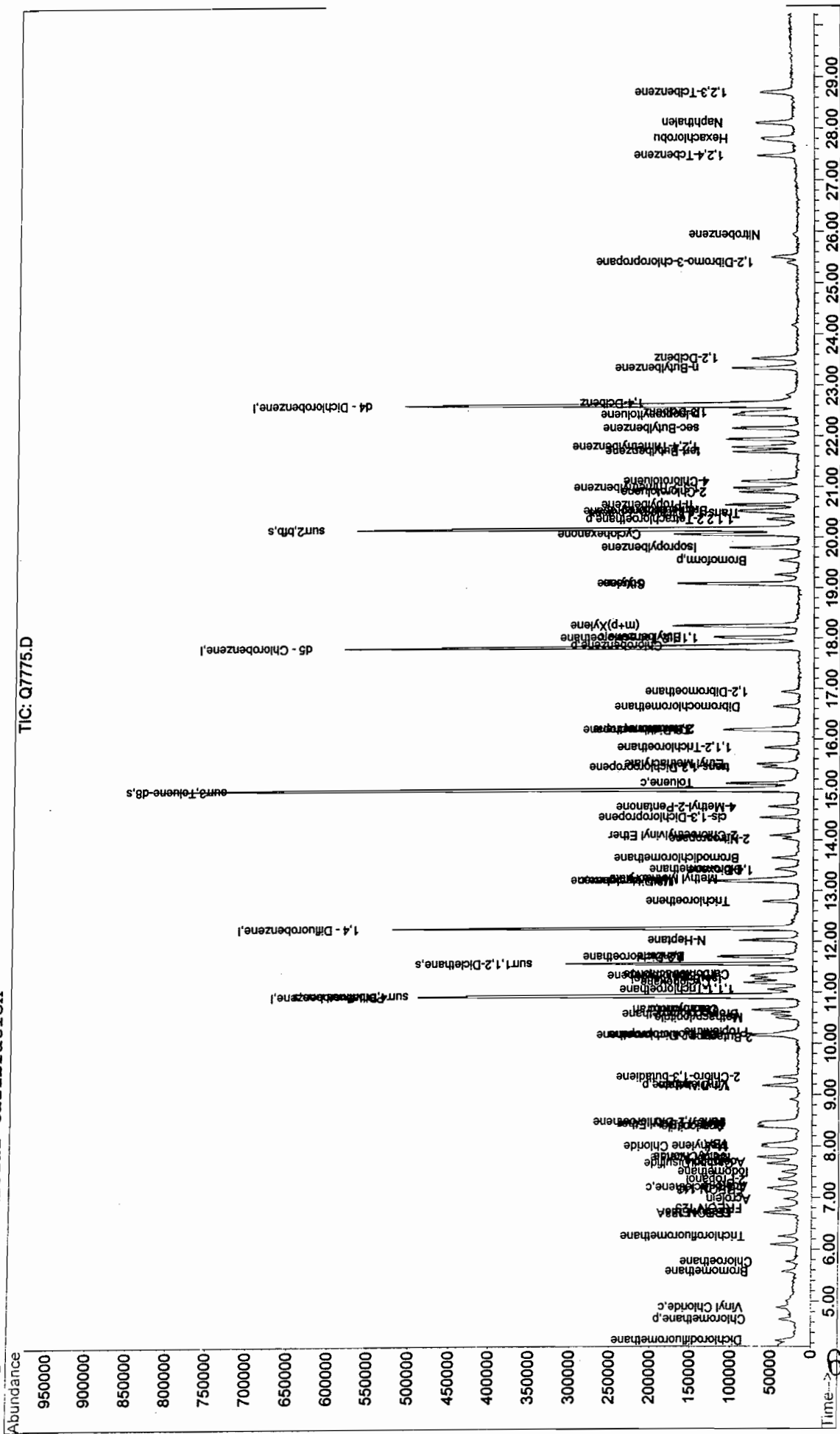
response 23966

Ion	Exp%	Act%
100.95	100	100
102.95	62.20	74.98#
0.00	0.00	0.00
0.00	0.00	0.00

Vial: 28
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

```
Method      : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title       : 8260voa
Last Update : Thu Oct 04 14:56:22 2007
Response via : Initial Calibration
```



Data File : J:\ACQDATA\MSVOA7\DATA\100307\Q7776.D
 Acq On : 3 Oct 2007 3:19 pm
 Sample : 20 PPB
 MS Integration Params: RTEINT.P
 Quant Time: Oct 4 14:54 2007
 Quant Results File: SOL1003.RES
 Quant Method : J:\ACQDATA\M...\SOL1003.M (RTE Integrator)
 Title : 8260VOA
 Last Update : Thu Oct 04 09:31:59 2007
 Response via : Initial Calibration
 DataAcq Meth : SOL1003

10/14/07
 12

Internal Standards			
R.T.	Qion	Response	Conc Units Dev(Min)
10.91	168	348189	50.00 ppb
12.26	114	620630	50.00 ppb
17.82	117	568861	50.00 ppb
22.61	152	271435	50.00 ppb
System Monitoring Compounds			
10.94	113	424909	85.63 ppb
11.56	65	419767	83.48 ppb
14.99	98	1300207	86.41 ppb
20.16	95	552448	85.16 ppb
Spiked Amount			
50.000			171.26% Recovery =
50.000			166.96% Recovery =
50.000			172.82% Recovery =
50.000			170.32% Recovery =

Target Compounds			
2) Dichlorodifluoromethane	4.25	85	84920
3) Chloromethane	4.65	50	128351
4) Vinyl Chloride	4.89	62	88826
5) Bromomethane	5.58	96	70912
6) Chloroethane	5.78	64	75086
7) Trichlorofluoromethane	6.26	101	115959
8) Diethyl Ether	6.72	59	89121
9) FREON 123A	6.70	67	139543
10) FREON 123	6.80	83	146794
11) Acrolein	6.97	56	95640
12) FREON 113	7.16	85	35836
13) 1,1-Dichloroethene	7.19	96	68745
14) Acetone	7.22	43	51948
15) 2-Propanol	7.35	45	307333
16) Iodomethane	7.50	127	66931
17) Carbon Disulfide	7.66	76	302590
18) Acetonitrile	7.70	41	101594
19) Allyl Chloride	7.80	41	231874
20) Methyl Acetate	7.77	43	192676
21) Methylene Chloride	7.99	84	99581
22) TBA	8.04	59	394829
23) Acrylonitrile	8.38	53	288363
24) Methyl-t-Butyl Ether	8.43	73	264574
25) trans-1,2-Dichloroethene	8.48	96	88292
26) 1,1-Dichloroethane	9.18	63	204681
27) Vinyl Acetate	9.17	43	184500
28) 2-Chloro-1,3-butadiene	9.34	53	132423
29) 2,2-Dichloropropene	10.18	77	131913
30) 2-Butanone	10.11	43	102360
31) cis-1,2-Dichloroethene	10.16	96	103635
32) Propionitrile	10.23	54	121921
33) Methacrylonitrile	10.50	67	54826
34) Bromochloromethane	10.57	128	60835
35) Chloroform	10.65	83	184961
36) Tetrahydrofuran	10.66	42	72923

(#) = qualifier out of range (m) = manual integration
 Thu Oct 04 14:54:54 2007
 SOL1003.M

Acq On : 3 Oct 2007 3:19 pm

Operator: K.Ruest

Sample : 20 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:54 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 09:31:59 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.06	97	124691	20.22	ppb	93
38) Cyclohexane	11.19	56	263051	21.67	ppb	97
41) Carbontetrachloride	11.36	117	111083	19.49	ppb	97
42) 1,1-Dichloropropene	11.32	75	145786	19.47	ppb	98
43) Iso-Butyl Alcohol	11.26	43	234572	401.27	ppb	92
45) Benzene	11.71	78	404553	20.34	ppb	99
46) 1,2-Dichloroethane	11.69	62	147293	20.34	ppb	# 90
47) N-Heptane	12.03	43	265879	21.26	ppb	96
48) Trichloroethene	12.79	95	100866	20.26	ppb	99
49) Methylcyclohexane	13.19	55	222445	20.83	ppb	98
50) 1,2-Dichloropropane	13.21	63	139928	19.71	ppb	97
51) Methyl Methacrylate	13.25	100	33421	20.09	ppb	90
52) 1,4-Dioxane	13.38	88	34686	421.11	ppb	98
53) Dibromomethane	13.42	93	80478	20.12	ppb	94
54) Bromodichloromethane	13.65	83	145849	20.08	ppb	100
55) 2-Nitropropane	14.02	43	99137	38.33	ppb	98
56) 2-Chloroethylvinyl Ether	14.09	63	99119	19.93	ppb	99
57) cis-1,3-Dichloropropene	14.45	75	199583	20.58	ppb	99
59) 4-Methyl-2-Pentanone	14.65	43	234052	19.81	ppb	96
60) Toluene	15.13	91	399759	20.48	ppb	100
61) trans-1,3-Dichloropropene	15.44	75	176535	20.76	ppb	94
62) Ethyl Methacrylate	15.51	69	192987	21.01	ppb	99
63) 1,1,2-Trichloroethane	15.83	83	91442	19.89	ppb	92
66) Tetrachloroethene	16.19	166	108504	20.17	ppb	98
67) 2-Hexanone	16.21	43	179020	19.16	ppb	98
68) 1,3-Dichloropropane	16.17	76	193411	20.68	ppb	98
70) Dibromochloromethane	16.65	129	126707	20.29	ppb	94
71) 1,2-Dibromoethane	16.94	107	124454	21.13	ppb	98
72) Chlorobenzene	17.88	112	287956	20.58	ppb	98
73) 1,1,1,2-Tetrachloroethane	18.00	131	105480	21.00	ppb	96
74) Ethylbenzene	18.03	91	467469	20.39	ppb	99
75) (m+p) Xylene	18.25	106	348964	41.54	ppb	97
76) o-Xylene	19.08	106	175864	20.38	ppb	99
77) Styrene	19.09	104	305613	21.01	ppb	100
78) Bromoform	19.54	173	95817	19.99	ppb	94
79) Isopropylbenzene	19.80	105	452615	20.65	ppb	98
80) Cyclohexanone	20.06	55	596293	542.95	ppb	97
82) 1,1,2,2-Tetrachloroethane	20.36	83	173911	20.11	ppb	99
83) Trans-1,4-Dichloro-2-buten	20.47	53	38182	20.35	ppb	97
84) 1,2,3-Trichloropropane	20.50	110	42870	20.18	ppb	88
85) n-Propylbenzene	20.65	91	596425	21.02	ppb	100
86) Bromobenzene	20.55	156	124026	20.70	ppb	86
87) 1,3,5-Trimethylbenzene	20.98	105	376860	21.04	ppb	98
88) 2-Chlorotoluene	20.90	91	335606	20.45	ppb	97
89) 4-Chlorotoluene	21.11	91	338977	20.16	ppb	97
90) tert-Butylbenzene	21.70	119	315963	20.59	ppb	96
91) 1,2,4-Trimethylbenzene	21.79	105	371920	20.72	ppb	100
92) sec-Butylbenzene	22.15	105	499057	20.57	ppb	100
93) p-Isopropyltoluene	22.42	119	422156	20.71	ppb	97
94) 1,3-Dclbenz	22.48	146	224797	20.48	ppb	96

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

Q7776.D SOL1003.M Thu Oct 04 14:54:55 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7776.D

Vial: 29

Acq On : 3 Oct 2007 3:19 pm

Operator: K.Ruest

Sample : 20 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:54 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 09:31:59 2007

Response via : Initial Calibration

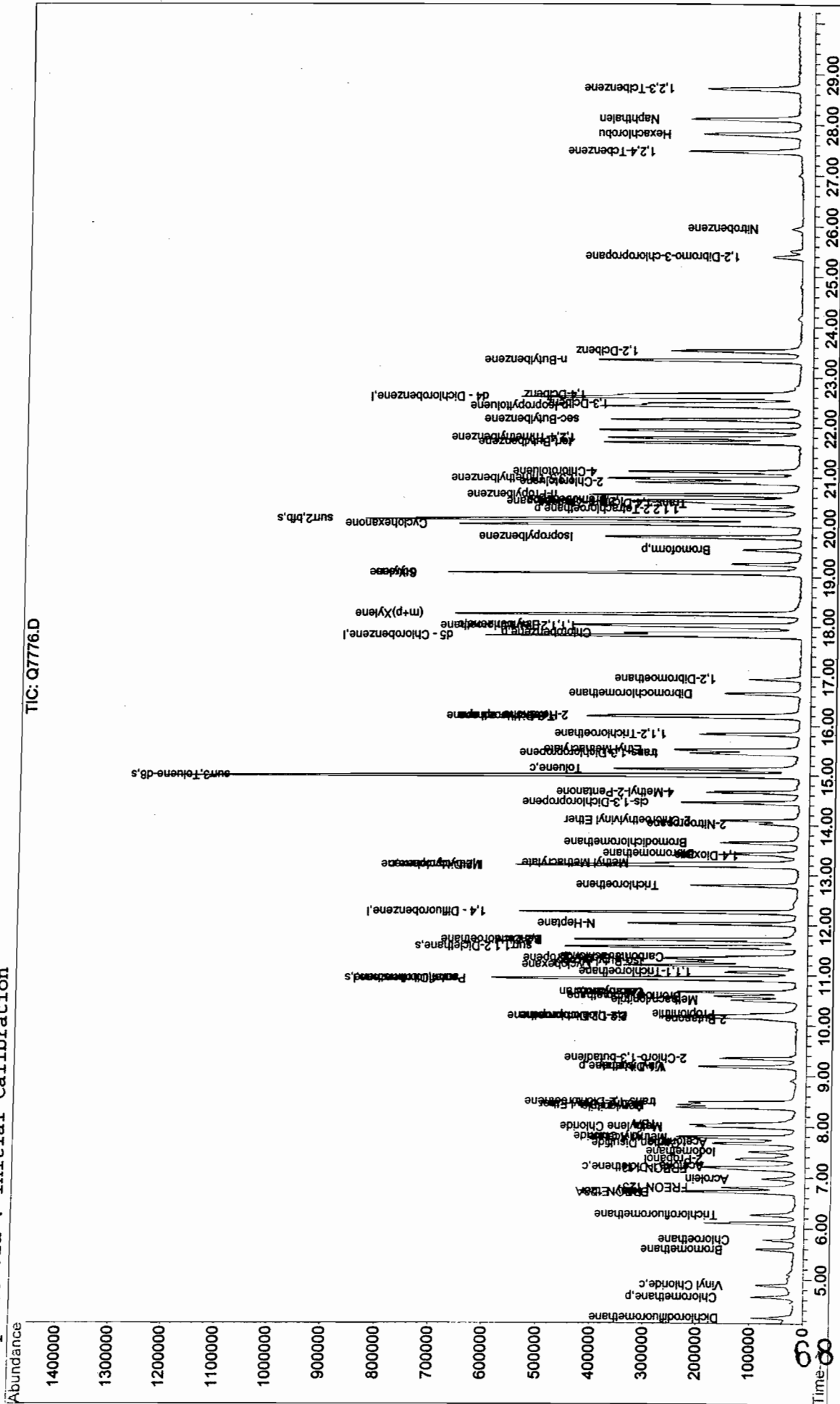
DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.66	146	229401	20.58	ppb	96
96) n-Butylbenzene	23.34	91	429795	20.86	ppb	98
97) 1,2-Dclbenz	23.52	146	218206	20.96	ppb	97
98) 1,2-Dibromo-3-chloropropan	25.40	157	36530	19.25	ppb	89
99) Nitrobenzene	25.95	77	24441	17.79	ppb	85
100) 1,2,4-Tcbenzene	27.47	180	140644	20.66	ppb	96
101) Hexachlorobu	27.82	225	85609	21.78	ppb	95
102) Naphthalen	28.11	128	367803	19.94	ppb	98
103) 1,2,3-Tclbenzene	28.71	180	129427	20.87	ppb	94

Vial: 29
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

```
Method      : J:\ACQUDATA\MSVOA7\METHOD
Title       : 8260voa
Last Update : Thu Oct 04 09:31:59 2007
Response via : Initial Calibration
```



Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7777.D

Vial: 30

Acq On : 3 Oct 2007 3:56 pm

Operator: K.Ruest

Sample : 50 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:52 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 09:31:59 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

KR 10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.91	168	344675	50.00	ppb	0.00
39) 1,4 - Difluorobenzene	12.26	114	580576	50.00	ppb	0.00
58) d5 - Chlorobenzene	17.81	117	563968	50.00	ppb	0.00
81) d4 - Dichlorobenzene	22.60	152	273028	50.00	ppb	0.00

System Monitoring Compounds

40) surr4,Dibrflmethane	10.93	113	221863	47.79	ppb	-0.01
Spiked Amount	50.000		Recovery	=	95.58%	
44) surr1,1,2-Dicethane	11.56	65	225185	47.87	ppb	0.00
Spiked Amount	50.000		Recovery	=	95.74%	
64) surr3,Toluene-d8	14.99	98	702824	47.11	ppb	0.00
Spiked Amount	50.000		Recovery	=	94.22%	
65) surr2,bfb	20.15	95	290761	45.21	ppb	0.00
Spiked Amount	50.000		Recovery	=	90.42%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	4.25	85	188092	45.66	ppb 100
3) Chloromethane	4.65	50	270370	45.63	ppb 100
4) Vinyl Chloride	4.88	62	203565	47.69	ppb 100
5) Bromomethane	5.59	96	164337	47.68	ppb 100
6) Chloroethane	5.76	64	162725	46.24	ppb 100
7) Trichlorofluoromethane	6.26	101	265766	48.61	ppb 100
8) Diethyl Ether	6.72	59	199636	48.13	ppb 100
9) FREON 123A	6.70	67	351899	52.94	ppb 100
10) FREON 123	6.80	83	363739	53.37	ppb 100
11) Acrolein	6.97	56	252179	257.42	ppb 100
12) FREON 113	7.16	85	82438	47.57	ppb 100
13) 1,1-Dicethene	7.19	96	151024	46.01	ppb 100
14) Acetone	7.20	43	121045	48.26	ppb 100
15) 2-Propanol	7.35	45	794750	1036.79	ppb 100
16) Iodomethane	7.50	127	175888	52.45	ppb 100
17) Carbon Disulfide	7.66	76	809730	50.61	ppb 100
18) Acetonitrile	7.69	41	228103	233.41	ppb 100
19) Allyl Chloride	7.79	41	519958	46.80	ppb 100
20) Methyl Acetate	7.76	43	494083	50.98	ppb 100
21) Methylene Chloride	7.99	84	228783	46.67	ppb 100
22) TBA	8.04	59	943382	983.18	ppb 100
23) Acrylonitrile	8.37	53	685115	237.84	ppb 100
24) Methyl-t-Butyl Ether	8.43	73	593935	47.25	ppb 100
25) trans-1,2-Dichloroethene	8.47	96	198647	43.89	ppb 100
26) 1,1-Dicethane	9.18	63	458586	46.56	ppb 100
27) Vinyl Acetate	9.17	43	473763	51.53	ppb 100
28) 2-Chloro-1,3-butadiene	9.34	53	336313	51.70	ppb 100
29) 2,2-Dichloropropane	10.18	77	299410	44.77	ppb 100
30) 2-Butanone	10.11	43	264576	50.20	ppb 100
31) cis-1,2-Dichloroethene	10.15	96	228941	45.24	ppb 100
32) Propionitrile	10.22	54	282625	239.33	ppb 100
33) Methacrylonitrile	10.49	67	127430	49.20	ppb 100
34) Bromochloromethane	10.57	128	128599	44.63	ppb 100
35) Chloroform	10.65	83	405246	46.59	ppb 100
36) Tetrahydrofuran	10.65	42	151887	45.72	ppb 100

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

Q7777.D SOL1003.M Thu Oct 04 14:53:34 2007

Acq On : 3 Oct 2007 3:56 pm

Operator: K.Ruest

Sample : 50 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:52 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 09:31:59 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.06	97	277624	45.48	ppb	100
38) Cyclohexane	11.18	56	611842	50.92	ppb	100
41) Carbontetrachloride	11.36	117	251768	47.22	ppb	100
42) 1,1-Dichloropropene	11.32	75	335462	47.90	ppb	100
43) Iso-Butyl Alcohol	11.26	43	576296	1053.86	ppb	100
45) Benzene	11.71	78	865816	46.54	ppb	100
46) 1,2-Dichloroethane	11.69	62	323109	47.69	ppb	100
47) N-Heptane	12.02	43	543041	46.42	ppb	100
48) Trichloroethene	12.79	95	231074	49.61	ppb	100
49) Methylcyclohexane	13.19	55	520121	52.07	ppb	100
50) 1,2-Dichloropropane	13.20	63	314803	47.41	ppb	100
51) Methyl Methacrylate	13.23	100	75033	48.21	ppb	100
52) 1,4-Dioxane	13.38	88	77803	1009.75	ppb	100
53) Dibromomethane	13.42	93	178322	47.65	ppb	100
54) Bromodichloromethane	13.65	83	336246	49.49	ppb	100
55) 2-Nitropropane	14.02	43	230199	95.13	ppb	100
56) 2-Chloroethylvinyl Ether	14.09	63	232812	50.04	ppb	100
57) cis-1,3-Dichloropropene	14.45	75	448023	49.38	ppb	100
59) 4-Methyl-2-Pentanone	14.65	43	587070	50.12	ppb	100
60) Toluene	15.12	91	911201	47.08	ppb	100
61) trans-1,3-Dichloropropene	15.44	75	402369	47.72	ppb	100
62) Ethyl Methacrylate	15.50	69	442365	48.59	ppb	100
63) 1,1,2-Trichloroethane	15.83	83	214843	47.14	ppb	100
66) Tetrachloroethene	16.19	166	242886	45.54	ppb	100
67) 2-Hexanone	16.21	43	469696	50.71	ppb	100
68) 1,3-Dichloropropane	16.17	76	455953	49.16	ppb	100
70) Dibromochloromethane	16.64	129	299616	48.40	ppb	100
71) 1,2-Dibromoethane	16.93	107	284188	48.68	ppb	100
72) Chlorobenzene	17.88	112	652838	47.06	ppb	100
73) 1,1,1,2-Tetrachloroethane	17.99	131	241986	48.60	ppb	100
74) Ethylbenzene	18.02	91	1053795	46.36	ppb	100
75) (m+p)Xylene	18.24	106	756083	90.78	ppb	100
76) o-Xylene	19.08	106	385314	45.03	ppb	100
77) Styrene	19.09	104	671377	46.55	ppb	100
78) Bromoform	19.54	173	225564	47.47	ppb	100
79) Isopropylbenzene	19.80	105	1023823	47.12	ppb	100
80) Cyclohexanone	20.05	55	971491	869.51	ppb	100
82) 1,1,2,2-Tetrachloroethane	20.36	83	421720	48.48	ppb	100
83) Trans-1,4-Dichloro-2-buten	20.47	53	89626	47.50	ppb	100
84) 1,2,3-Trichloropropane	20.51	110	100541	47.04	ppb	100
85) n-Propylbenzene	20.65	91	1321253	46.30	ppb	100
86) Bromobenzene	20.54	156	282341	46.84	ppb	100
87) 1,3,5-Trimethylbenzene	20.97	105	834448	46.31	ppb	100
88) 2-Chlorotoluene	20.90	91	735523	44.57	ppb	100
89) 4-Chlorotoluene	21.11	91	756515	44.73	ppb	100
90) tert-Butylbenzene	21.70	119	713038	46.19	ppb	100
91) 1,2,4-Trimethylbenzene	21.79	105	829312	45.94	ppb	100
92) sec-Butylbenzene	22.15	105	1099265	45.05	ppb	100
93) p-Isopropyltoluene	22.42	119	946146	46.15	ppb	100
94) 1,3-Dichlorobenz	22.47	146	508642	46.08	ppb	100

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

Q7777.D SOL1003.M Thu Oct 04 14:53:34 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7777.D

Vial: 30

Acq On : 3 Oct 2007 3:56 pm

Operator: K.Ruest

Sample : 50 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 14:52 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 09:31:59 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.66	146	519249	46.31	ppb	100
96) n-Butylbenzene	23.34	91	940135	45.36	ppb	100
97) 1,2-Dclbenz	23.52	146	479846	45.82	ppb	100
98) 1,2-Dibromo-3-chloropropan	25.40	157	85274	44.66	ppb	100
99) Nitrobenzene	25.95	77	67020	48.50	ppb	100
100) 1,2,4-Tcbenzene	27.47	180	315211	46.04	ppb	100
101) Hexachlorobu	27.81	225	177316	44.85	ppb	100
102) Naphthalen	28.11	128	848299	45.71	ppb	100
103) 1,2,3-Tclbenzene	28.71	180	281137	45.06	ppb	100

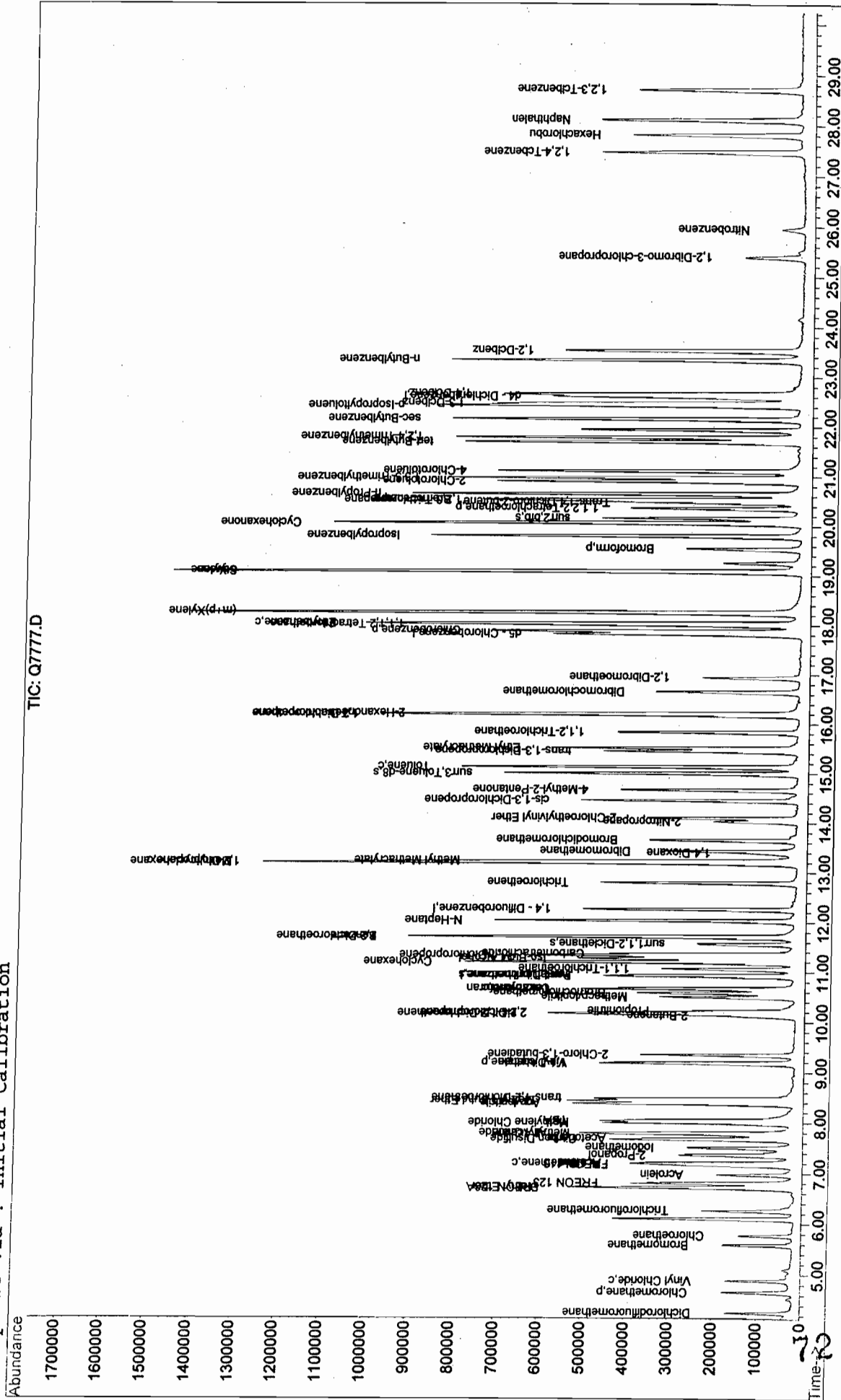
(#) = qualifier out of range (m) = manual integration

Q7777.D SOL1003.M Thu Oct 04 14:53:35 2007

Vial: 30
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

```
Method      : J:\ACQUDATA\MSVOA7\METHOD
Title       : 8260voa
Last Update : Thu Oct 04 09:31:59 2007
Response via : Initial Calibration
```



Acq On : 3 Oct 2007 4:32 pm

Operator: K.Ruest

Sample : 100 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:09 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:02:08 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

LR 10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	10.91	168	345087	50.00	ppb	0.00
39) 1,4 - Difluorobenzene	12.26	114	608258	50.00	ppb	0.00
58) d5 - Chlorobenzene	17.82	117	573976	50.00	ppb	0.00
81) d4 - Dichlorobenzene	22.61	152	271396	50.00	ppb	0.00
System Monitoring Compounds						
40) surr4, Dibrflmethane	10.94	113	510390	104.95	ppb	0.00
Spiked Amount 50.000			Recovery	=	209.90%	
44) surr1, 1,2-Dicethane	11.56	65	527127	106.96	ppb	0.00
Spiked Amount 50.000			Recovery	=	213.92%	
64) surr3, Toluene-d8	14.99	98	1573816	103.66	ppb	0.00
Spiked Amount 50.000			Recovery	=	207.32%	
65) surr2, bfb	20.15	95	691230	105.60	ppb	0.00
Spiked Amount 50.000			Recovery	=	211.20%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.25	85	443516	107.53	ppb	98
3) Chloromethane	4.65	50	606725	102.27	ppb	98
4) Vinyl Chloride	4.89	62	454030	106.08	ppb	94
5) Bromomethane	5.58	96	347073	99.30	ppb	94
6) Chloroethane	5.76	64	367530	100.18	ppb	100
7) Trichlorofluoromethane	6.26	101	586076	106.96	ppb	93
8) Diethyl Ether	6.72	59	416689	100.34	ppb	94
9) FREON 123A	6.70	67	647952	97.37	ppb	99
10) FREON 123	6.80	83	679546	99.58	ppb	98
11) Acrolein	6.97	56	498207	507.95	ppb	97
12) FREON 113	7.16	85	180555	104.21	ppb	97
13) 1,1-Dicethene	7.19	96	330116	100.36	ppb	95
14) Acetone	7.21	43	237249	94.48	ppb	92
15) 2-Propanol	7.35	45	1468561	1913.52	ppb	96
16) Iodomethane	7.50	127	347554	103.51	ppb	94
17) Carbon Disulfide	7.67	76	1628097	101.63	ppb	100
18) Acetonitrile	7.70	41	483875	494.53	ppb	100
19) Allyl Chloride	7.79	41	1155287	108.63	ppb	99
20) Methyl Acetate	7.76	43	960332	98.97	ppb	100
21) Methylene Chloride	7.99	84	497579	101.39	ppb	99
22) TBA	8.04	59	1921249	1999.91	ppb	94
23) Acrylonitrile	8.37	53	1469424	520.43	ppb	98
24) Methyl-t-Butyl Ether	8.42	73	1312477	104.28	ppb	98
25) trans-1,2-Dichloroethene	8.47	96	447119	98.68	ppb	99
26) 1,1-Dicethane	9.18	63	1006043	102.01	ppb	97
27) Vinyl Acetate	9.16	43	996142	108.22	ppb	99
28) 2-Chloro-1,3-butadiene	9.34	53	651515	100.03	ppb	99
29) 2,2-Dichloropropane	10.19	77	649786	97.04	ppb	94
30) 2-Butanone	10.11	43	540944	102.52	ppb	98
31) cis-1,2-Dichloroethene	10.15	96	506117	99.90	ppb	95
32) Propionitrile	10.22	54	601033	506.74	ppb	96
33) Methacrylonitrile	10.49	67	279290	107.71	ppb	94
34) Bromochloromethane	10.57	128	282158	95.76	ppb	97
35) Chloroform	10.66	83	863905	99.20	ppb	99
36) Tetrahydrofuran	10.65	42	306294	92.09	ppb	99

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

Q7778.D SOL1003.M Thu Oct 04 15:11:08 2007

Acq On : 3 Oct 2007 4:32 pm

Operator: K.Ruest

Sample : 100 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:09 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:02:08 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.06	97	645771	105.67	ppb	100
38) Cyclohexane	11.19	56	1187398	98.71	ppb	98
41) Carbontetrachloride	11.36	117	567812	101.66	ppb	96
42) 1,1-Dichloropropene	11.32	75	745962	101.68	ppb	98
43) Iso-Butyl Alcohol	11.25	43	1177840	2055.87	ppb	97
45) Benzene	11.71	78	1942026	99.64	ppb	99
46) 1,2-Dichloroethane	11.69	62	702463	98.97	ppb	94
47) N-Heptane	12.02	43	1234239	99.36	ppb	99
48) Trichloroethene	12.79	95	509992	103.25	ppb	99
49) Methylcyclohexane	13.19	55	998176	95.38	ppb	99
50) 1,2-Dichloropropane	13.20	63	688477	98.97	ppb	95
51) Methyl Methacrylate	13.23	100	163732	100.34	ppb	94
52) 1,4-Dioxane	13.38	88	162570	2013.86	ppb	100
53) Dibromomethane	13.42	93	390975	99.35	ppb	98
54) Bromodichloromethane	13.65	83	725020	101.86	ppb	99
55) 2-Nitropropane	14.02	43	535008	211.04	ppb	99
56) 2-Chloroethylvinyl Ether	14.09	63	487954	95.50	ppb	99
57) cis-1,3-Dichloropropene	14.45	75	957590	100.74	ppb	98
59) 4-Methyl-2-Pentanone	14.65	43	1181599	99.11	ppb	99
60) Toluene	15.12	91	1938317	98.39	ppb	99
61) trans-1,3-Dichloropropene	15.44	75	872152	101.63	ppb	99
62) Ethyl Methacrylate	15.50	69	966581	104.31	ppb	97
63) 1,1,2-Trichloroethane	15.83	83	457969	98.73	ppb	96
66) Tetrachloroethene	16.19	166	539708	99.44	ppb	96
67) 2-Hexanone	16.21	43	939692	99.86	ppb	100
68) 1,3-Dichloropropane	16.17	76	978580	103.68	ppb	95
70) Dibromochloromethane	16.64	129	641902	101.89	ppb	99
71) 1,2-Dibromoethane	16.94	107	590778	99.42	ppb	94
72) Chlorobenzene	17.88	112	1423846	100.85	ppb	97
73) 1,1,1,2-Tetrachloroethane	17.99	131	526932	104.04	ppb	97
74) Ethylbenzene	18.02	91	2382890	103.00	ppb	98
75) (m+p)Xylene	18.25	106	1732811	204.43	ppb	97
76) o-Xylene	19.08	106	884849	101.59	ppb	96
77) Styrene	19.09	104	1488683	101.43	ppb	98
78) Bromoform	19.54	173	494574	102.27	ppb	97
79) Isopropylbenzene	19.80	105	2319054	104.88	ppb	100
80) Cyclohexanone	20.06	55	2013344	1733.93	ppb	99
82) 1,1,2,2-Tetrachloroethane	20.36	83	873923	101.21	ppb	97
83) Trans-1,4-Dichloro-2-buten	20.47	53	197278	106.40	ppb	92
84) 1,2,3-Trichloropropane	20.51	110	219499	103.32	ppb	100
85) n-Propylbenzene	20.65	91	2862344	100.47	ppb	99
86) Bromobenzene	20.54	156	610771	101.94	ppb	97
87) 1,3,5-Trimethylbenzene	20.97	105	1806159	100.72	ppb	99
88) 2-Chlorotoluene	20.90	91	1658368	101.09	ppb	97
89) 4-Chlorotoluene	21.11	91	1730797	103.66	ppb	99
90) tert-Butylbenzene	21.70	119	1547889	99.40	ppb	97
91) 1,2,4-Trimethylbenzene	21.79	105	1774687	98.76	ppb	100
92) sec-Butylbenzene	22.15	105	2415454	99.57	ppb	99
93) p-Isopropyltoluene	22.42	119	2053443	100.96	ppb	99
94) 1,3-Dichlorobenz	22.48	146	1103091	100.53	ppb	99

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

Q7778.D SOL1003.M Thu Oct 04 15:11:08 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7778.D

Vial: 31

Acq On : 3 Oct 2007 4:32 pm

Operator: K.Ruest

Sample : 100 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:09 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:02:08 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

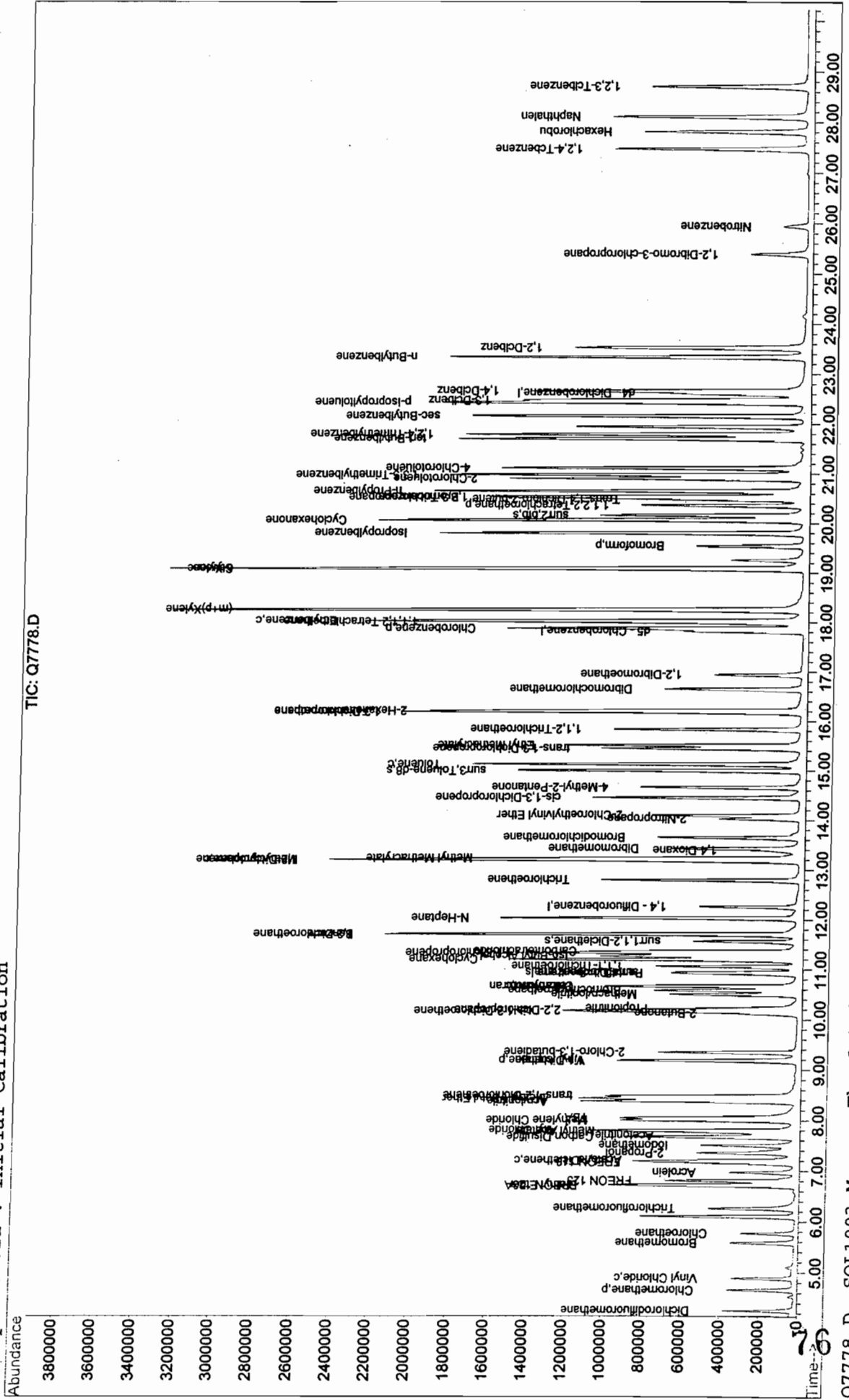
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.66	146	1116319	100.17	ppb	98
96) n-Butylbenzene	23.34	91	2093583	101.30	ppb	98
97) 1,2-Dclbenz	23.52	146	1063210	102.65	ppb	99
98) 1,2-Dibromo-3-chloropropan	25.40	157	184340	95.86	ppb	94
99) Nitrobenzene	25.95	77	160909	117.66	ppb	90
100) 1,2,4-Tcbenzene	27.47	180	676319	99.37	ppb	98
101) Hexachlorobu	27.82	225	378959	96.26	ppb	95
102) Naphthalen	28.11	128	1774214	96.69	ppb	98
103) 1,2,3-Tclbenzene	28.71	180	634020	102.23	ppb	95

(#) = qualifier out of range (m) = manual integration
Q7778.D SOL1003.M Thu Oct 04 15:11:09 2007

Vial: 31
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

```
Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title : 8260voa
Last Update : Thu Oct 04 15:02:08 2007
Response via : Initial Calibration
```



Acq On : 3 Oct 2007 5:09 pm

Operator: K.Ruest

Sample : 150 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:10 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:11:18 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.91	168	348065	50.00	ppb	0.00
39) 1,4 - Difluorobenzene	12.26	114	616209	50.00	ppb	0.00
58) d5 - Chlorobenzene	17.81	117	578290	50.00	ppb	0.00
81) d4 - Dichlorobenzene	22.61	152	287855	50.00	ppb	0.00
System Monitoring Compounds						
40) surr4,Dibrflmethane	10.94	113	639616	129.82	ppb	0.00
Spiked Amount 50.000			Recovery =	259.64%		
44) surr1,1,2-Dicethane	11.56	65	641977	128.59	ppb	0.00
Spiked Amount 50.000			Recovery =	257.18%		
64) surr3,Toluene-d8	14.99	98	1997499	130.58	ppb	0.00
Spiked Amount 50.000			Recovery =	261.16%		
65) surr2,bfb	20.15	95	848197	128.61	ppb	0.00
Spiked Amount 50.000			Recovery =	257.22%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	4.25	85	641617	154.22	ppb	100
3) Chloromethane	4.66	50	872270	145.78	ppb	97
4) Vinyl Chloride	4.89	62	656694	152.21	ppb	91
5) Bromomethane	5.58	96	508363	144.21	ppb	93
6) Chloroethane	5.76	64	507841	137.24	ppb	97
7) Trichlorofluoromethane	6.26	101	870923	157.58	ppb	96
8) Diethyl Ether	6.72	59	610197	145.68	ppb	95
9) FREON 123A	6.70	67	986603	146.99	ppb	98
10) FREON 123	6.80	83	1073577	155.98	ppb	95
11) Acrolein	6.97	56	756931	765.13	ppb	100
12) FREON 113	7.15	85	255590	146.25	ppb	88
13) 1,1-Dicethene	7.19	96	523358	157.75	ppb	95
14) Acetone	7.21	43	380874	150.38	ppb	95
15) 2-Propanol	7.35	45	2226147	2875.83	ppb	99
16) Iodomethane	7.50	127	512694	151.39	ppb	98
17) Carbon Disulfide	7.66	76	2263457	140.08	ppb	100
18) Acetonitrile	7.70	41	760603	770.71	ppb	98
19) Allyl Chloride	7.79	41	1582912	146.57	ppb	98
20) Methyl Acetate	7.76	43	1422006	145.30	ppb	97
21) Methylene Chloride	7.99	84	705308	142.49	ppb	100
22) TBA	8.04	59	2797975	2887.61	ppb	93
23) Acrylonitrile	8.38	53	2178881	765.10	ppb	98
24) Methyl-t-Butyl Ether	8.43	73	1974689	155.56	ppb	100
25) trans-1,2-Dichloroethene	8.47	96	672446	147.14	ppb	99
26) 1,1-Dicethane	9.18	63	1489629	149.75	ppb	97
27) Vinyl Acetate	9.16	43	1408675	151.73	ppb	99
28) 2-Chloro-1,3-butadiene	9.34	53	977182	148.75	ppb	97
29) 2,2-Dichloropropane	10.18	77	939973	139.17	ppb	98
30) 2-Butanone	10.11	43	782655	147.06	ppb	100
31) cis-1,2-Dichloroethene	10.16	96	732430	143.03	ppb	99
32) Propionitrile	10.22	54	892705	746.21	ppb	99
33) Methacrylonitrile	10.49	67	401904	153.68	ppb	92
34) Bromochloromethane	10.57	128	422966	142.32	ppb	97
35) Chloroform	10.65	83	1307926	148.90	ppb	100
36) Tetrahydrofuran	10.65	42	472778	140.94	ppb	97

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

Q7779.D SOL1003.M Thu Oct 04 15:12:49 2007

COLUMBIA ANALYTICAL SERVICES

1 Mustard St. Rochester N.Y.
(716)-288-5380

Analyst: J BRYANT

Date: 03/16/05

Time: 19:10

Analysis: 8021B.TL SOILS HEATED

Column: RESTEK CAPILLARY Rtx 502.2 - 105m

Instrument I.D.: HP1 - PID / FID

Standard I.D. : STANDARD #4 - 100ppb

Compound	Retention Time	Area Units	Conc. (ug/kg)	Response Factor
Methyl t-butyl ether	10.16	124.9	100.0	1.2489
Benzene	15.53	283.2	100.0	2.8319
Toluene	20.56	243.7	100.0	2.4370
Ethylbenzene	24.96	212.4	100.0	2.1242
p-Xylene + m-Xylene	25.19	517.2	200.0	2.5861
o-Xylene	26.51	222.9	100.0	2.2289
Isopropylbenzene	27.60	181.1	100.0	1.8109
n-Propylbenzene	28.85	204.8	100.0	2.0484
1,3,5-Trimethylbenzene	29.35	284.3	100.0	2.8435
tert-Butylbenzene	30.46	152.6	100.0	1.5258
1,2,4-Trimethylbenzene	30.59	234.7	100.0	2.3468
sec-Butylbenzene	31.14	176.3	100.0	1.7633
p-Isopropyltoluene	31.57	171.6	100.0	1.7163
n-Butylbenzene	32.88	179.3	100.0	1.7933
Naphthalene	38.07	248.9	100.0	2.4887
SURROGATES				
Chlorofluorobezene	23.63	103.3	60.0	1.7211

Area units = x10⁻⁴

COLUMBIA ANALYTICAL SERVICES**1 Mustard St. Rochester N.Y.****(716)-288-5380**

Analyst: J BRYANT

Date: 03/16/05

Time: 20:01

Analysis: 8021B.TL SOILS HEATED

Column: RESTEK CAPILLARY Rtx 502.2 - 105m

Instrument I.D.: HP1 - PID / FID

Standard I.D. : STANDARD #5 - 125ppb

Compound	Retention Time	Area Units	Conc. (ug/kg)	Response Factor
Methyl t-butyl ether	10.17	132.7	125.0	1.0620
Benzene	15.53	335.7	125.0	2.6857
Toluene	20.57	291.2	125.0	2.3297
Ethylbenzene	24.97	250.6	125.0	2.0046
p-Xylene + m-Xylene	25.20	612.8	250.0	2.4510
o-Xylene	26.52	265.1	125.0	2.1210
Isopropylbenzene	27.60	211.8	125.0	1.6941
n-Propylbenzene	28.85	241.0	125.0	1.9283
1,3,5-Trimethylbenzene	29.36	329.9	125.0	2.6390
tert-Butylbenzene	30.47	178.6	125.0	1.4288
1,2,4-Trimethylbenzene	30.59	273.3	125.0	2.1866
sec-Butylbenzene	31.14	205.6	125.0	1.6449
p-Isopropyltoluene	31.58	198.5	125.0	1.5877
n-Butylbenzene	32.89	205.4	125.0	1.6434
Naphthalene	38.07	291.2	125.0	2.3300
SURROGATES				
Chlorofluorobezene	23.63	147.6	90.0	1.6402

Area units = x10-4

COLUMBIA ANALYTICAL SERVICES

1 Mustard St. Rochester N.Y.

(716)-288-5380

Analyst: J BRYANT

Date: 03/16/05

Time: 20:53

Analysis: 8021B.TL SOILS HEATED

Column: RESTEK CAPILLARY Rtx 502.2 - 105m

Instrument I.D.: HP1 - PID / FID

Standard I.D. : STANDARD #6 - 150ppb

Compound	Retention Time	Area Units	Conc. (ug/kg)	Response Factor
Methyl t-butyl ether	10.18	167.9	150.0	1.1193
Benzene	15.54	412.3	150.0	2.7486
Toluene	20.57	359.2	150.0	2.3949
Ethylbenzene	24.97	310.2	150.0	2.0680
p-Xylene + m-Xylene	25.21	708.7	300.0	2.3623
o-Xylene	26.53	319.1	150.0	2.1276
Isopropylbenzene	27.61	259.5	150.0	1.7303
n-Propylbenzene	28.86	291.7	150.0	1.9447
1,3,5-Trimethylbenzene	29.36	404.0	150.0	2.6932
tert-Butylbenzene	30.47	215.8	150.0	1.4384
1,2,4-Trimethylbenzene	30.60	334.4	150.0	2.2296
sec-Butylbenzene	31.15	248.8	150.0	1.6588
p-Isopropyltoluene	31.59	241.5	150.0	1.6102
n-Butylbenzene	32.90	252.5	150.0	1.6832
Naphthalene	38.08	343.3	150.0	2.2888
SURROGATES				
Chlorofluorobezene	23.64	203.7	120.0	1.6972

Area units = x10-4

FILE : HP1 0021B.1ESW

Run File : j:\acqdata\hp1\data\031605\1003.run

Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth

Sample ID : ICAL STD #2 1.0 PPB

903110

Injection Date: 3/16/05 3:54 PM Calculation Date: 3/16/05 4:35 PM

Operator : J BRYANT

Detector Type: ADCB (1 Volt)

Workstation: Acqu

Bus Address : 16

Instrument : HP1

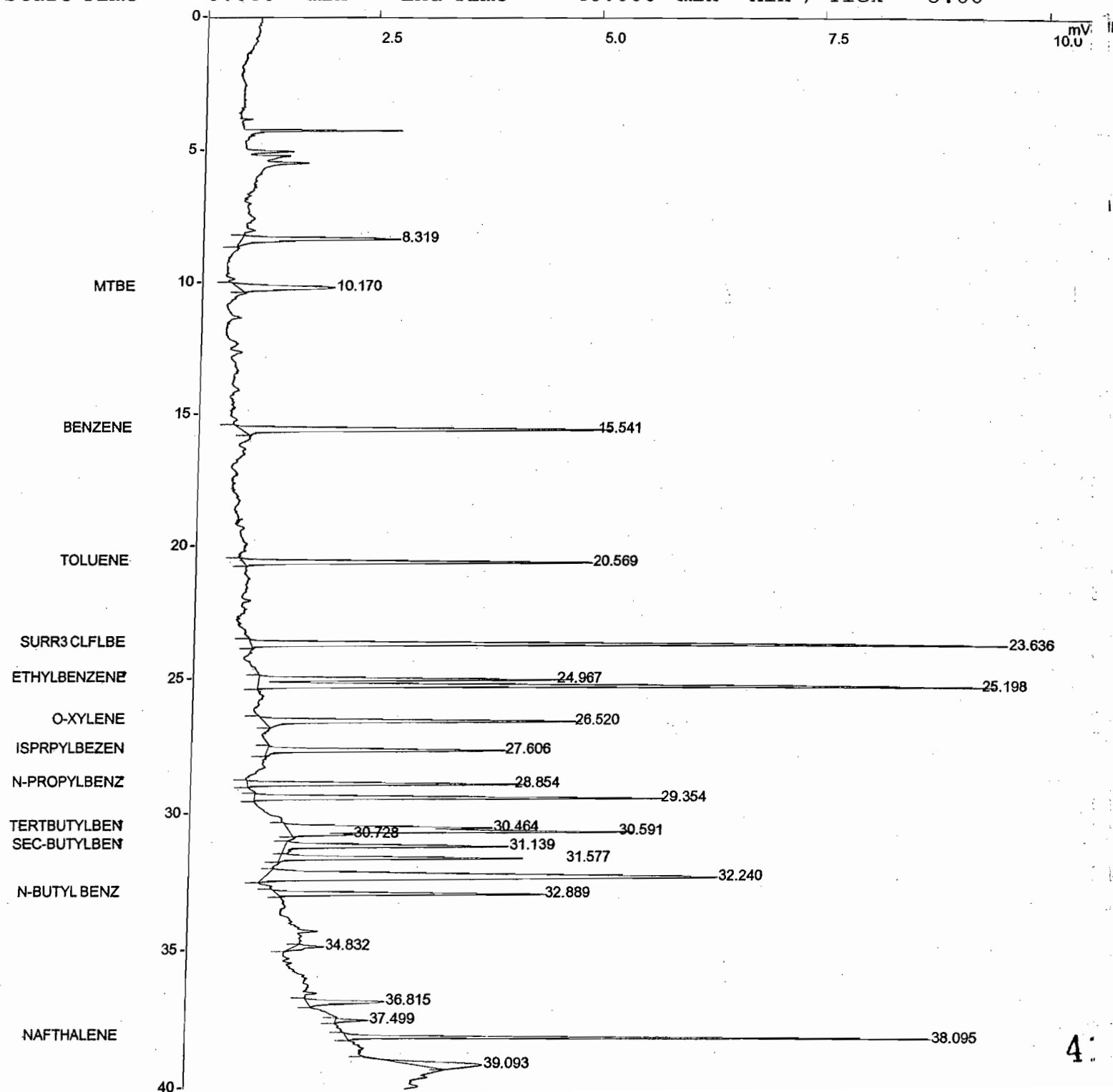
Sample Rate : 10.00 Hz

Channel : A = PID

Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 41 Zero Offset = -5%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPL 8021B.TLSW
 In File : j:\acqdata\hpl\data\031605\1003.run
 Method File : J:\ACQDATA\HPL\METHODS\Hpl0316s.mth
 Sample ID : ICAL STD #2 1.0 PEB

Injection Date: 3/16/05 3:54 PM Calculation Date: 3/16/05 4:35 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acq Bus Address : 16
 Instrument : HPL Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22nd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.319	0.000	14735	EB	7.2	
2	MIBE	1.544	10.170	0.024	11731	EB	10.8	
3	BENZENE	1.686	15.541	0.012	30398	EB	6.9	
4	TOLUENE	1.604	20.569	0.004	25893	EB	6.3	
5	SURF CLFEE	4.575	23.636	0.043	52282	EB	5.8	R
6	ETHYLBENZENE	1.617	24.967	-0.002	21893	BV	6.0	
7	M,P-XYLENE	3.180	25.198	-0.005	52352	VB	5.9	
8	O-XYLENE	1.721	26.520	-0.004	24457	EB	6.2	
9	ISOPYLBENZEN	1.616	27.606	-0.006	18433	EB	6.4	
10	N-PROPYLBENZ	1.499	28.854	-0.008	19166	EB	5.8	
11	1,3,5-TRIMET	1.578	29.354	-0.011	29045	EB	6.0	
12	TERIBUTYLBEN	1.456	30.464	-0.010	14288	BV	6.9	
13	1,2,4-TRIMET	1.592	30.591	-0.012	24989	W	6.9	
14		0.000	30.728	0.000	3359	VB	7.6	
15	SEC-BUTYLBEN	1.569	31.139	-0.013	17883	BV	6.5	
16	P-ISOPYLTOL	1.546	31.577	-0.013	17260	VB	5.8	
17		0.000	32.240	0.000	61031	EB	11.4	
18	N-BUTYL BENZ	1.523	32.889	-0.015	18121	EB	5.8	
19		0.000	34.832	0.000	2410	EB	4.7	
20		0.000	36.815	0.000	7495	EB	8.7	
21		0.000	37.499	0.000	1808	EB	4.6	
22	NAFTHALENE	1.987	38.095	-0.002	27509	EB	3.9	
23		0.000	39.093	0.000	10265	EB	0.0	
Totals:		30.293		-0.018	506803			

US Codes:
 Reference peak

1 Unidentified Counts : 101103 counts

ected Peaks: 23 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 1162 microVolts

Noise (used): 70 microVolts - fixed value
Noise (monitored before this run): 45 microVolts

Manual injection

Title : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\031605\1004.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : ICAL STD #3 20 PPB

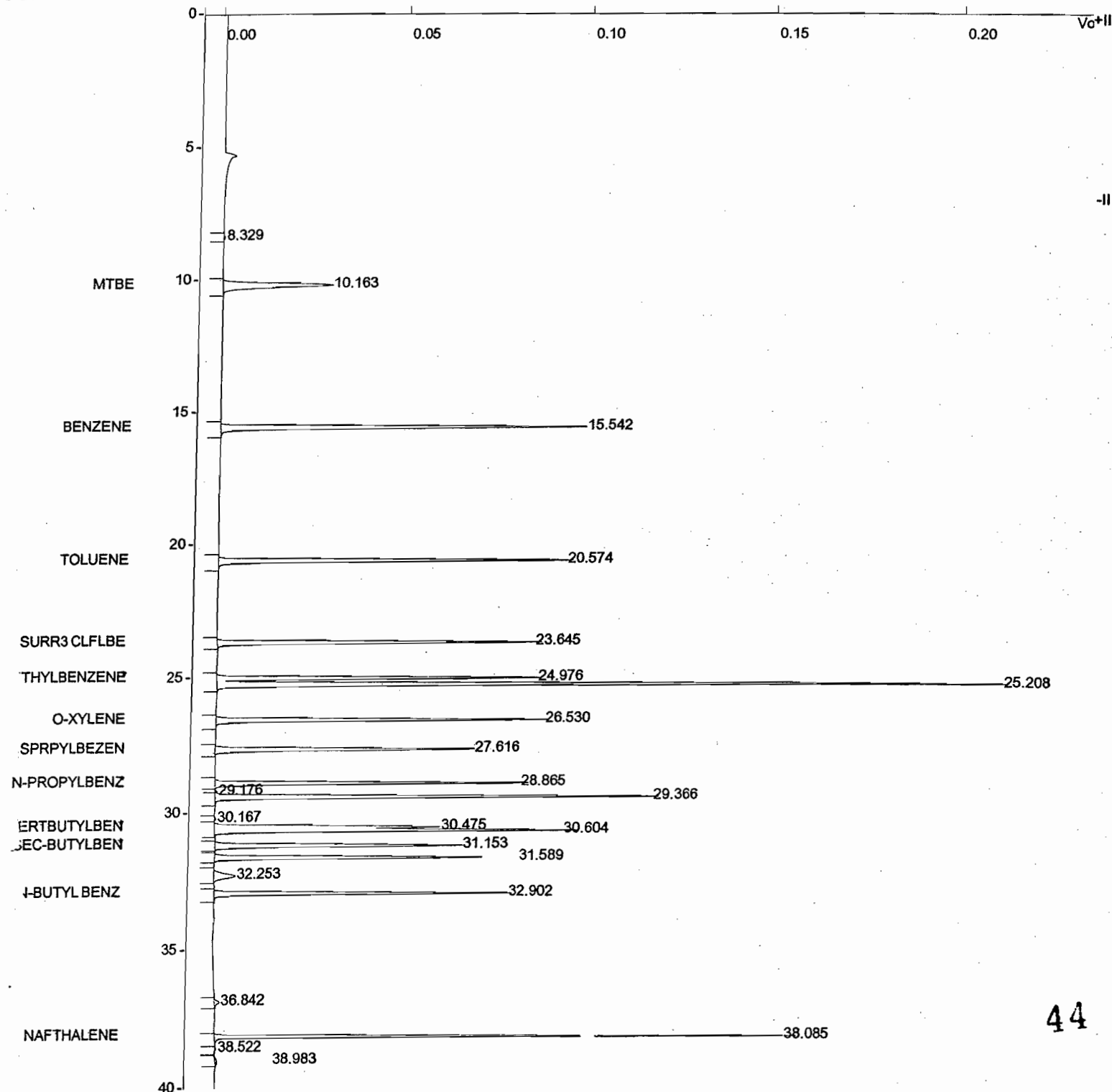
D23.17

Injection Date: 3/16/05 5:27 PM Calculation Date: 3/16/05 6:07 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 1002 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpl\data\031605\1004.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpl0316s.mth
 Sample ID : ICAL SID #3 20 PBB

Injection Date: 3/16/05 5:27 PM Calculation Date: 3/16/05 6:07 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22nd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak Nb.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.329	0.000	3046	FB	8.0	
2	MIBB	44.060	10.163	0.014	334739	FB	10.6	
3	BENZENE	39.801	15.542	0.008	717730	FB	6.8	
4	TOLUENE	39.291	20.574	0.002	634139	FB	6.2	
5	SURF CLMBE	47.169	23.645	0.052	539065	FB	5.8	R
6	ETHYLBENZENE	41.229	24.976	-0.001	558164	BV	6.0	
7	M,P-XYLENE	81.205	25.208	-0.003	1336875	VB	5.9	
8	O-XYLENE	40.513	26.530	-0.004	575829	FB	6.0	
9	ISOPYLBENZ	41.622	27.616	-0.005	474662	FB	6.4	
10	N-PROPYLENZ	41.341	28.865	-0.007	528662	BV	5.9	
11		0.000	29.176	0.000	2748	W	7.1	
12	1,3,5-TRIMET	41.542	29.366	-0.009	764779	VB	6.0	
13		0.000	30.167	0.000	2430	BP	5.9	
14	TERIBUTYLEN	40.091	30.475	-0.010	393526	FV	6.9	
15	1,2,4-TRIMET	39.901	30.604	-0.010	626271	VB	6.9	
16	SEC-BUTYLEN	40.023	31.153	-0.010	456097	FB	6.4	
17	P-ISOPYLTOL	40.749	31.589	-0.012	454852	FB	5.9	
18		0.000	32.253	0.000	73487	FB	11.9	
19	N-BUTYL BENZ	40.658	32.902	-0.013	483611	FB	5.7	
20		0.000	36.842	0.000	10823	FB	8.7	
21	NAFTHALENE	46.836	38.085	-0.025	648509	FB	3.9	
22		0.000	38.522	0.000	2193	FB	4.5	
23		0.000	38.983	0.000	5478	FB	0.0	
Totals:		706.031		-0.033	9627715			

Status Codes:

- Reference peak

Total Unidentified Counts : 100205 counts

Accepted Peaks: 23 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 707 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 36 microVolts

Manual injection

Title : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\031605\1005.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : ICAL STD #4 50 PPB

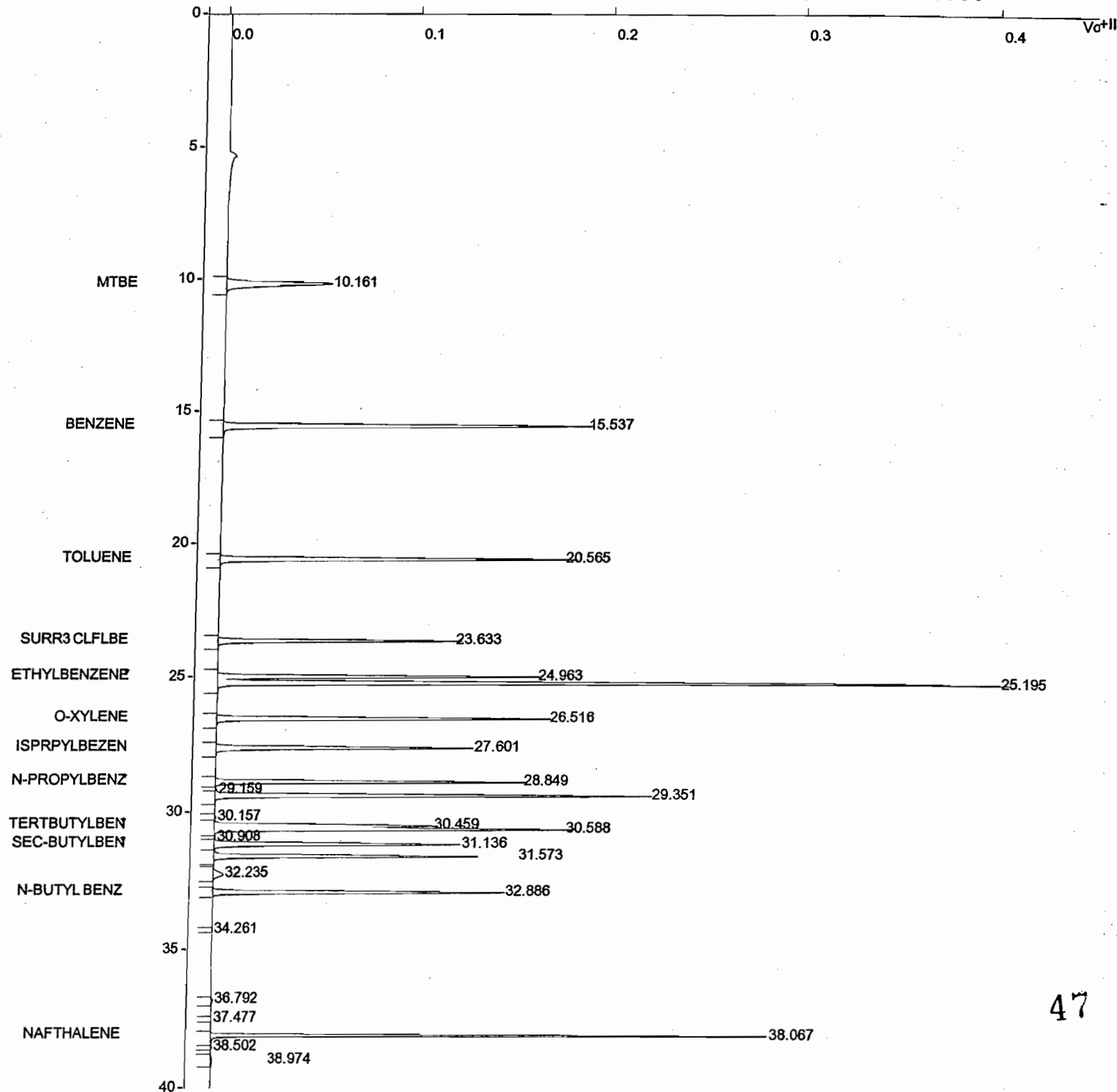
D23.17

Injection Date: 3/16/05 6:19 PM Calculation Date: 3/16/05 6:59 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 1927 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpi\data\031605\1005.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpi0316s.mth
 Sample ID : ICAL SID #4 50 FEB

Injection Date: 3/16/05 6:19 PM Calculation Date: 3/16/05 6:59 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

* Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22hd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	MIBB	82.343	10.161	0.017	625586	BB	10.6	
2	BENZENE	77.527	15.537	0.011	1398044	BB	6.8	
3	TOLUENE	75.957	20.565	0.003	1225918	BB	6.2	
4	SURF CLFEE	68.230	23.633	0.040	779759	BB	5.8	R
5	ETHYLBENZENE	79.103	24.963	-0.002	1070905	BB	6.0	
6	M,P-XYLENE	156.738	25.195	-0.003	2580386	BB	5.9	
7	O-XYLENE	78.290	26.516	-0.005	1112759	BB	6.0	
8	ISOPYMBENZ	79.662	27.601	-0.006	908482	BB	6.4	
9	N-PROPYLBENZ	79.111	28.849	-0.008	1011661	BB	5.9	
10		0.000	29.159	0.000	5615	W	7.3	
11	1,3,5-TRIMET	78.826	29.351	-0.009	1451172	BB	6.0	
12		0.000	30.157	0.000	4722	BB	5.8	
13	TERIBUTYLBENZ	77.112	30.459	-0.010	756913	W	6.9	
14	1,2,4-TRIMET	76.417	30.588	-0.011	1199404	W	6.9	
15		0.000	30.908	0.000	3930	W	0.0	
16	SEC-BUTYLBENZ	77.277	31.136	-0.011	880629	W	6.4	
17	P-ISOPYMBENZ	78.205	31.573	-0.012	872939	BB	5.9	
18		0.000	32.235	0.000	68219	BB	12.1	
19	N-BUTYL BENZ	76.640	32.886	-0.013	911610	BB	5.7	
20		0.000	34.261	0.000	1180	BB	4.8	
21		0.000	36.792	0.000	7413	BB	8.5	
22		0.000	37.477	0.000	1594	BB	5.1	
23	NAFTHALENE	85.744	38.067	-0.024	1187252	BB	3.9	
24		0.000	38.502	0.000	1953	BB	3.5	
25		0.000	38.974	0.000	8696	BB	0.0	

Totals: 1327.182 -0.043 18076741

Status Codes:
 - Reference peak

Total Unidentified Counts : 103322 counts

Detected Peaks: 25 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 1065 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 35 microVolts

Manual injection

Title : HP1 8021B.TLSW
In File : j:\acqdata\hp1\data\031605\1006.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : ICAL STD #5 100 PPB

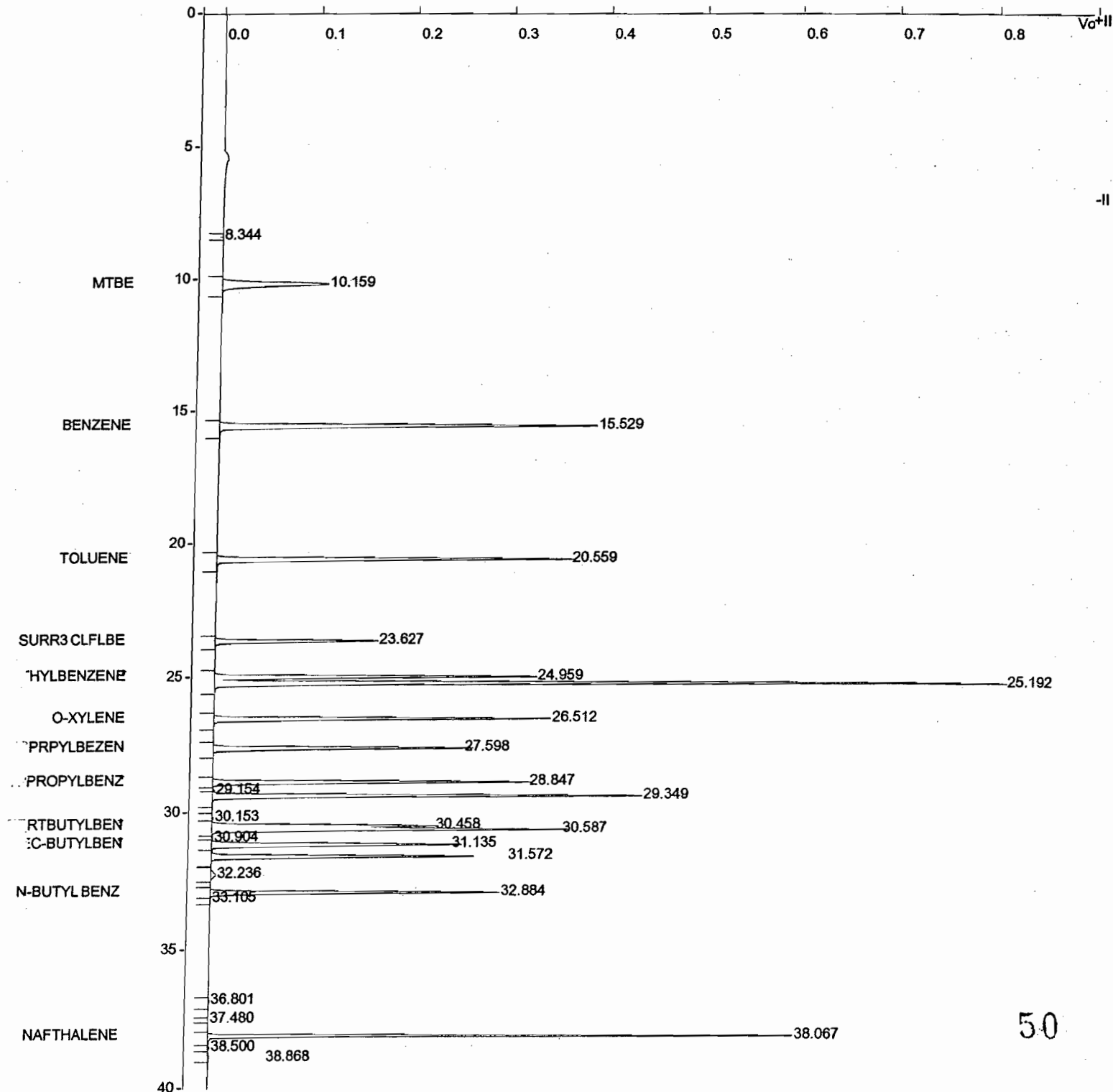
023.17

Injection Date: 3/16/05 7:10 PM Calculation Date: 3/16/05 7:50 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 3848 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpl\data\031605\1006.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpi0316s.mth
 Sample ID : ICAL SID #5 100 PBB

Injection Date: 3/16/05 7:10 PM Calculation Date: 3/16/05 7:50 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acq Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22hd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak Nb.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.344	0.000	1922	EB	0.0	
2	MIPE	164.385	10.159	0.018	1248889	EB	10.6	
3	BENZENE	157.043	15.529	0.007	2831947	EB	6.8	
4	TOLUENE	150.996	20.559	0.003	2437036	EB	6.2	
5	SURF CLFEE	90.359	23.627	0.034	1032654	EB	5.8	R
6	ETHYLBENZENE	156.902	24.959	0.000	2124162	EV	6.0	
7	M,P-XYLENE	314.176	25.192	0.000	5172296	VB	5.9	
8	O-XYLENE	156.817	26.512	-0.002	2228903	EB	6.0	
9	ISOPYLBENZEN	158.793	27.598	-0.002	1810898	EB	6.4	
10	N-PROPYLBENZ	160.182	28.847	-0.003	2048396	EV	5.9	
11		0.000	29.154	0.000	11605	W	7.0	
12	1,3,5-TRIMET	154.456	29.349	-0.004	2843489	VB	6.0	
13		0.000	30.153	0.000	9860	EV	6.0	
14	TERIBUTYLEN	155.447	30.458	-0.004	1525832	W	6.9	
15	1,2,4-TRIMET	149.522	30.587	-0.004	2346836	W	6.9	
16		0.000	30.904	0.000	6983	W	0.0	
17	SEC-BUTYLEN	154.732	31.135	-0.005	1763291	W	6.4	
18	P-ISOPYLYL	153.761	31.572	-0.005	1716321	VB	5.9	
19		0.000	32.236	0.000	67966	EB	12.8	
20	N-BUTYL BENZ	150.765	32.884	-0.005	1793311	EV	5.7	
21		0.000	33.105	0.000	2242	VB	0.0	
22		0.000	36.801	0.000	6907	EB	8.6	
23		0.000	37.480	0.000	888	EB	0.0	
24	NAFHALENE	179.731	38.067	-0.015	2488650	EV	3.9	C
25		0.000	38.500	0.000	7781	VP	6.0	
26		0.000	38.868	0.000	5453	EB	0.0	
Totals:		2608.067		0.013	35534518			

Status Codes:

- Reference peak
- Out of calibration range

Total Unidentified Counts : 121607 counts

Selected Peaks: 26 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1

Divisor: 1

Unidentified Peak Factor: 0

Baseline Offset: 907 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 37 microVolts

Manual injection

Calib. out of range; No Recovery Action Specified

Title : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\031605\1007.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : ICAL STD #6 125 PPB

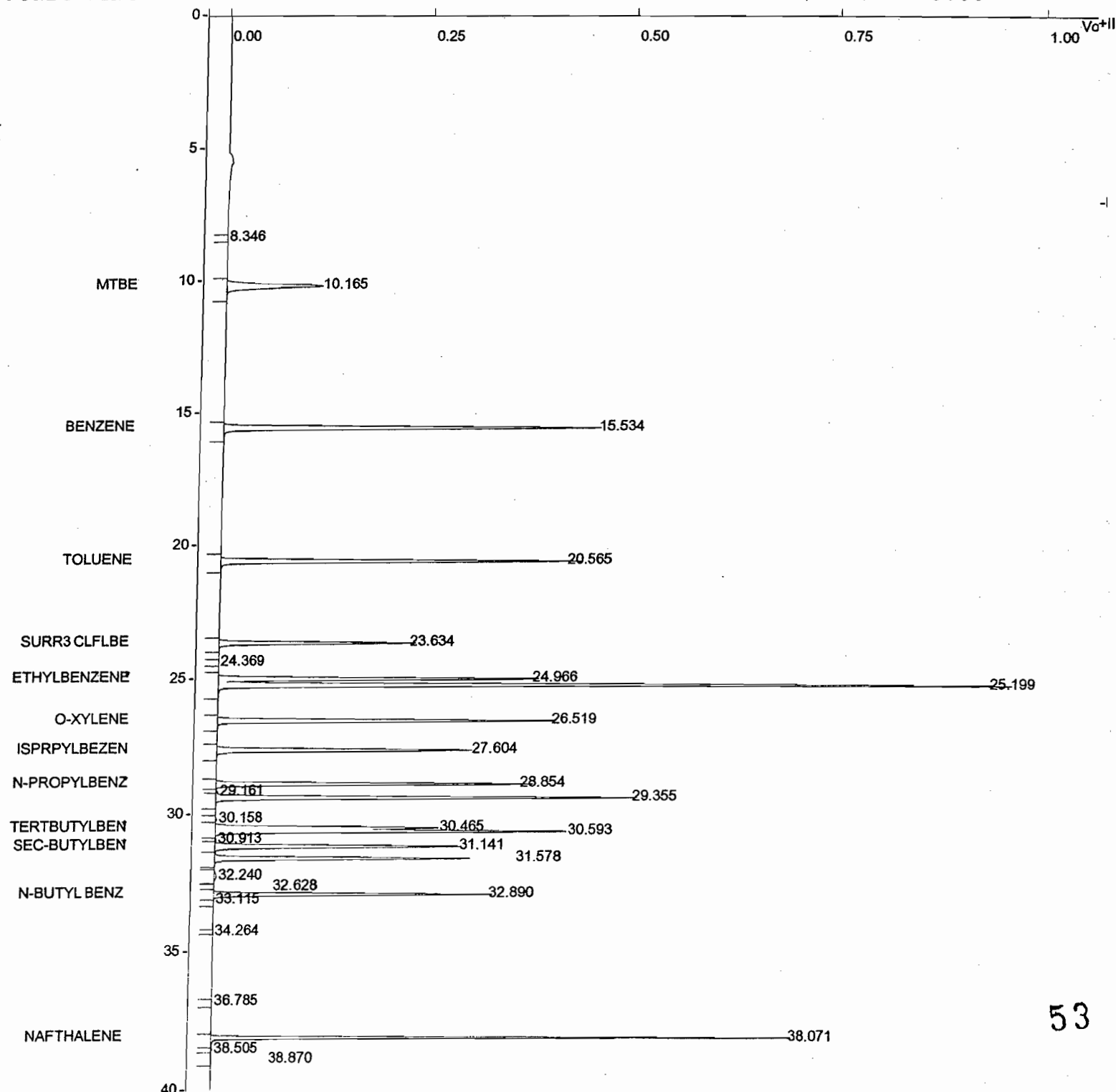
023.17

Injection Date: 3/16/05 8:01 PM Calculation Date: 3/16/05 8:41 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 4561 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI-8021B.TLW
 Data File : j:\acqdata\hpl\data\031605\1007.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpl0316s.mth
 Sample ID : ICAL SID #6 125 PBB

Injection Date: 3/16/05 8:01 PM Calculation Date: 3/16/05 8:41 PM

Operator : J BRVANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HPL Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22hd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.346	0.000	1921	BB	7.2	
2	MIBB	174.726	10.165	0.021	1327450	BB	10.6	C
3	BENZENE	186.169	15.534	0.007	3357167	BB	6.8	C
4	TOLUENE	180.435	20.565	0.003	2912175	BB	6.2	C
5	SURF CLEB	129.170	23.634	0.041	1476201	BB	5.7	R
6		0.000	24.369	0.000	1784	BB	5.3	
7	ETHYLBENZENE	185.084	24.966	-0.000	2505703	BV	6.0	C
8	M,P-XYLENE	372.204	25.199	-0.000	6127624	VB	5.9	C
9	O-XYLENE	186.535	26.519	-0.003	2651285	BB	6.0	C
10	ISOPYMBENZ	185.686	27.604	-0.004	2117589	BB	6.4	C
11	N-PROPYLBENZ	188.492	28.854	-0.005	2410416	BV	5.9	C
12		0.000	29.161	0.000	12744	W	6.9	
13	1,3,5-TRIMET	179.186	29.355	-0.006	3298770	VB	6.0	C
14		0.000	30.158	0.000	10901	BV	6.0	
15	TERIBUTYLBEN	181.958	30.465	-0.006	1786054	W	6.9	C
16	1,2,4-TRIMET	174.142	30.593	-0.007	2733262	W	6.9	C
17		0.000	30.913	0.000	7655	W	0.0	
18	SEC-BUTYLBEN	180.430	31.141	-0.008	2056143	W	6.4	C
19	P-ISOPYLTOL	177.793	31.578	-0.008	1984569	VB	5.9	C
20		0.000	32.240	0.000	40939	BB	14.7	
21		0.000	32.628	0.000	1207	BV	6.0	
22	N-BUTYL BENZ	172.707	32.890	-0.009	2054305	W	5.7	C
23		0.000	33.115	0.000	2530	VB	0.0	
24		0.000	34.264	0.000	1267	BB	4.9	
25		0.000	36.785	0.000	6474	BB	7.9	
26	NAFTHALENE	210.341	38.071	-0.022	2912491	BV	3.9	C
27		0.000	38.505	0.000	8030	W	5.4	
28		0.000	38.870	0.000	8851	VB	0.0	
Totals:		3065.058		-0.006	41815507			

Status Codes:

- Reference peak
- Out of calibration range

Total Unidentified Counts : 104303 counts

Detected Peaks: 28 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 875 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 24 microVolts

Manual injection

Calib. out of range; No Recovery Action Specified

Title : HP1 8021B.TLSW
Data File : j:\acqdata\hp1\data\031605\1008.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : ICAL STD #7 150 PPB

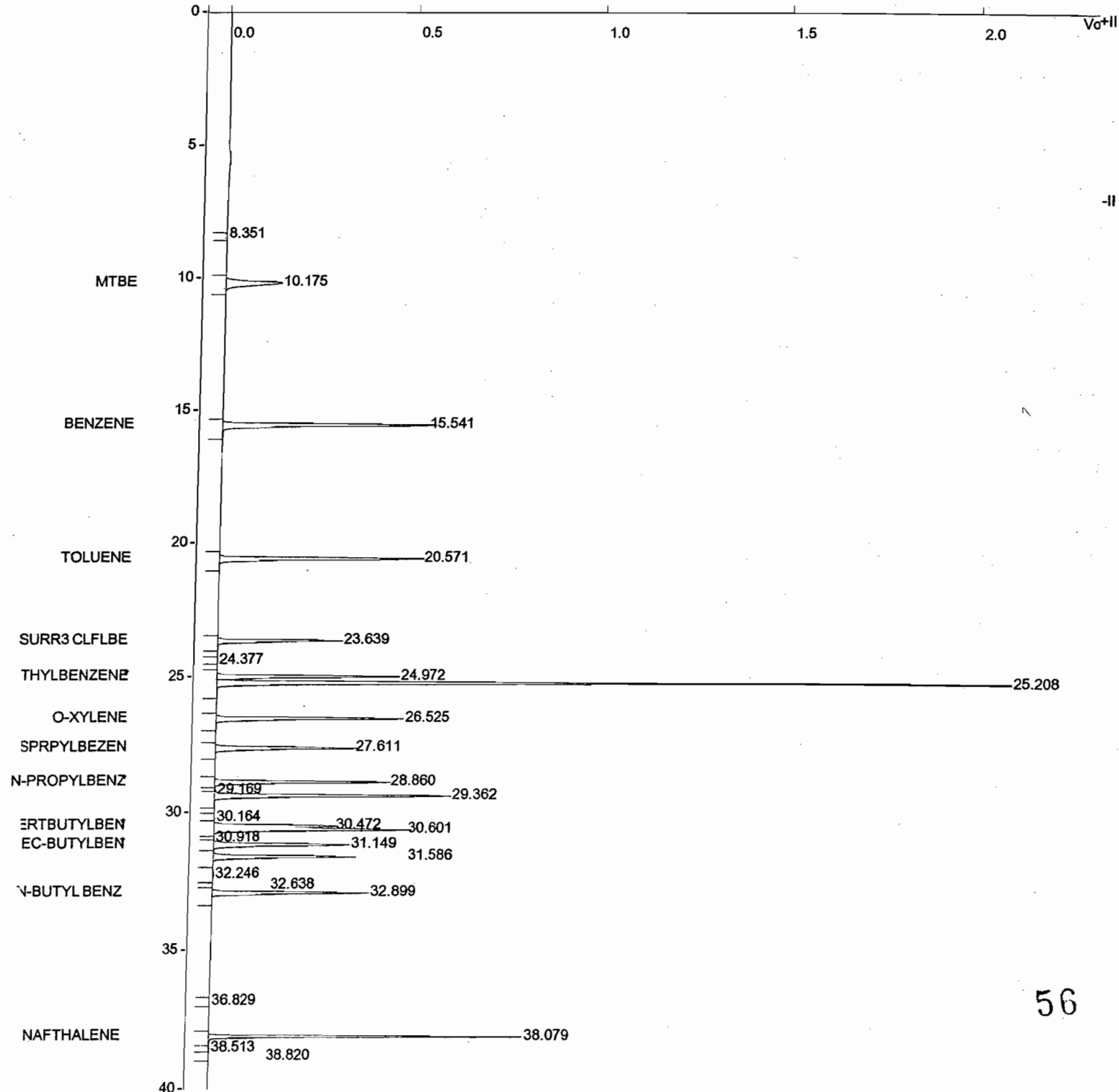
023.17

Injection Date: 3/16/05 8:53 PM Calculation Date: 3/16/05 9:33 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 9912 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPL 8021B.TLSW
 Run File : j:\acqdata\hpl\data\031605\1008.run
 Method File : J:\ACQDATA\HPL\METHODS\Hpl0316s.mth
 Sample ID : ICAL SID #7 150 PBB

Injection Date: 3/16/05 8:53 PM Calculation Date: 3/16/05 9:33 PM

Operator : J BRVANT Detector Type: ADCB (1 Volt)
 Workstation: Acq Bus Address : 16
 Instrument : HPL Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22hd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.351	0.000	2145	EB	6.3	
2	MIBB	220.982	10.175	0.029	1678876	EB	10.6	C
3	BENZENE	228.636	15.541	0.011	4122971	EB	6.8	C
4	TOLUENE	222.580	20.571	0.004	3592374	EB	6.2	C
5	SURF CLBB	178.205	23.639	0.046	2036584	EB	5.7	RC
6		0.000	24.377	0.000	2479	EB	5.3	
7	ETHYLBENZENE	229.131	24.972	0.000	3102017	EB	6.0	C
8	M,P-XYLENE	430.470	25.208	0.003	7086852	VB	6.6	C
9	O-XYLENE	224.530	26.525	-0.002	3191328	EB	6.0	C
10	ISOPYMBENZEN	227.589	27.611	-0.004	2595454	EB	6.4	C
11	N-PROPYLBENZ	228.105	28.860	-0.005	2916986	EB	5.9	C
12		0.000	29.169	0.000	16658	W	7.3	
13	1,3,5-TRIMET	219.442	29.362	-0.006	4039862	VB	6.0	C
14		0.000	30.164	0.000	13472	EB	6.1	
15	TERIBUTYLBEN	219.816	30.472	-0.005	2157661	W	7.0	C
16	1,2,4-TRIMET	213.081	30.601	-0.006	3344422	W	6.9	C
17		0.000	30.918	0.000	10222	W	0.0	
18	SEC-BUTYLBEN	218.346	31.149	-0.007	2488225	W	6.4	C
19	P-ISOPYLTOL	216.376	31.586	-0.008	2415240	VB	5.9	C
20		0.000	32.246	0.000	44976	EB	15.2	
21		0.000	32.638	0.000	1167	EB	5.7	
22	N-BUTYL BENZ	212.259	32.899	-0.008	2524760	VB	5.7	C
23		0.000	36.829	0.000	6604	EB	8.6	
24	NAFHALENE	247.948	38.079	-0.023	3433221	EB	3.9	C
25		0.000	38.513	0.000	9855	VP	5.7	
26		0.000	38.820	0.000	3107	EB	0.0	
Totals:		3737.496		0.019	50837518			

Status Codes:

- Reference peak
- Out of calibration range

Total Unidentified Counts : 110685 counts

Detected Peaks: 26 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 949 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 22 microVolts

Manual injection

Calib. out of range; No Recovery Action Specified

COLUMBIA ANALYTICAL SERVICES

1 Mustard St. Rochester N.Y.

(716)-288-5380

Analyst: MNIEZGODA

**Method: 8021B TLSW HEATED
DAILY CALIBRATION DATA**

Laboratory: CAS

Instrument I.D.: HP1 - PID / FID

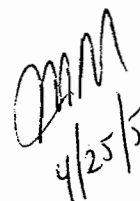
Column: RESTEK CAPILLARY Rtx 502.2 - 105m

ICAL Date: 03/16/05

Daily Calibration Date: 04/23/05

Time: 00:28

Compound	R. T. Window		R. T. Daily	Area Units	Avg. R F	R. F. Daily		% D	Conc. ppb
	From	To	50 Std			50 Std			
Methyl t-butyl ether	9.95	10.26	10.11	61.9	1.1989	1.2384		3%	50.0
Benzene	15.29	15.67	15.48	131.4	2.8289	2.6287		7%	50.0
Toluene	20.31	20.69	20.50	115.3	2.4566	2.3052		6%	50.0
Ethylbenzene	24.73	25.07	24.90	101.2	2.1268	2.0242		5%	50.0
p-Xylene + m-Xylene	24.97	25.30	25.13	245.4	2.5452	2.4536		4%	100.0
o-Xylene	26.29	26.62	26.45	106.5	2.2420	2.1298		5%	50.0
Isopropylbenzene	27.38	27.70	27.54	87.4	1.7990	1.7481		3%	50.0
n-Propylbenzene	28.63	28.95	28.79	98.2	1.9960	1.9639		2%	50.0
1,3,5-Trimethylbenzene	29.13	29.44	29.29	139.9	2.8403	2.7975		2%	50.0
tert-Butylbenzene	30.24	30.55	30.40	73.5	1.4850	1.4706		1%	50.0
1,2,4-Trimethylbenzene	30.37	30.68	30.53	115.6	2.3610	2.3127		2%	50.0
sec-Butylbenzene	30.93	31.22	31.07	84.8	1.7402	1.6957		3%	50.0
p-Isopropyltoluene	31.38	31.64	31.51	83.6	1.7009	1.6729		2%	50.0
n-Butylbenzene	32.71	32.94	32.82	88.0	1.7816	1.7593		1%	50.0
Naphthalene	37.91	38.13	38.02	123.2	2.4711	2.4642		0%	50.0
AVG %D = 3%									
SURROGATES									
Chlorofluorobezene	23.39	23.75	23.57	47.4	1.7218	1.5807		8%	30.0


4/25/5

Run File : j:\acqdata\hpl\data\042205\1013.run
Method File : J:\ACQUDATA\HP1\METHODS\Hpl0316s.mth
Sample ID : CCV #2

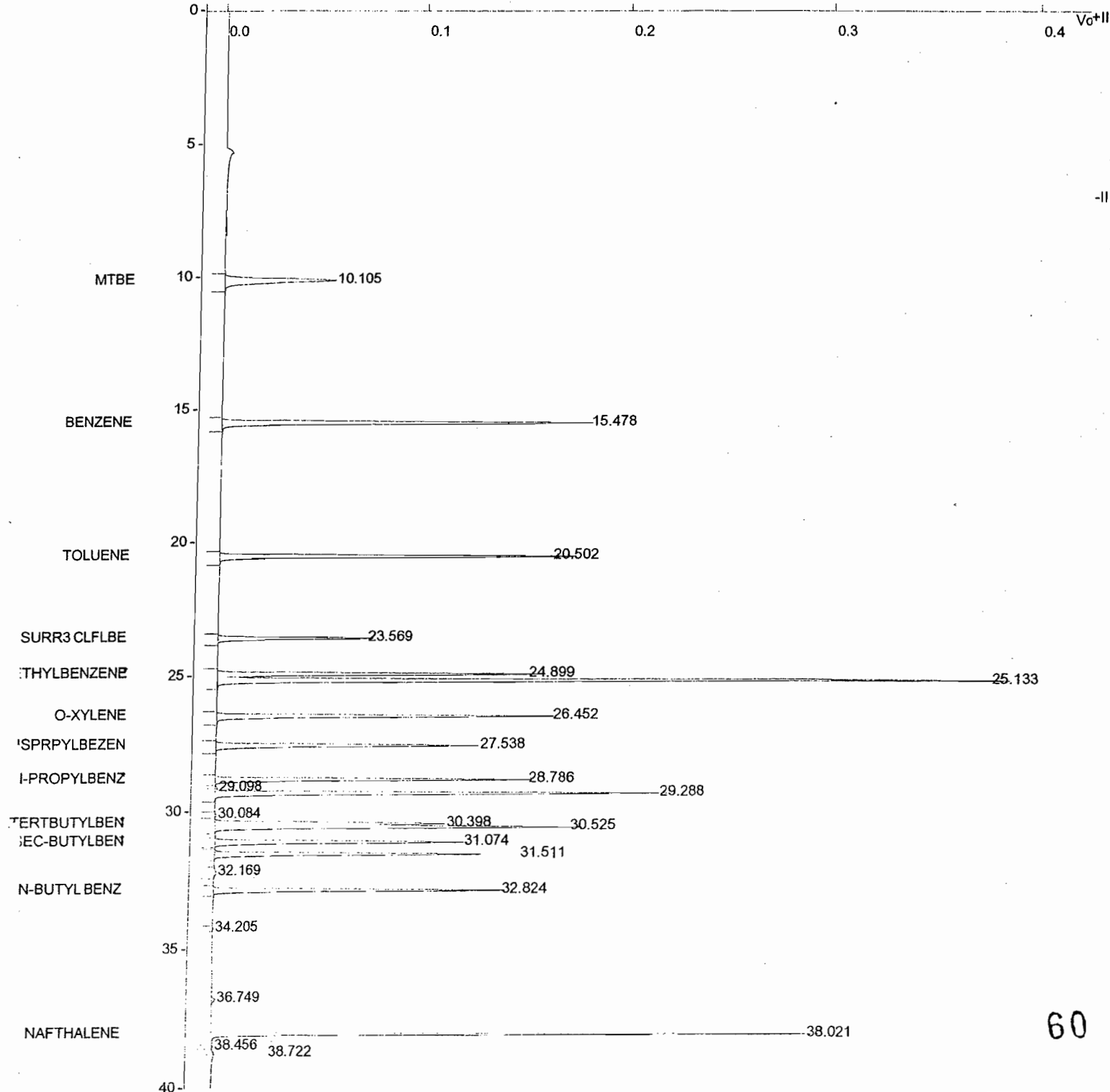
4/25

Injection Date: 4/23/05 12:28 AM Calculation Date: 4/23/05 1:08 AM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

* Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 1823 Zero Offset = 2%
Chart Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpi\data\042205\1013.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpi0316s.mth
 Sample ID : CCV #2

Injection Date: 4/23/05 12:28 AM Calculation Date: 4/23/05 1:08 AM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22rd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	MIBB	51.649	10.105	-0.029	619211	BB	10.5	
2	BENZENE	46.461	15.478	-0.017	1314327	BB	6.7	
3	TOLUENE	46.920	20.502	-0.008	1152608	BB	6.1	
4	SURF CLFLBB	27.540	23.569	-0.063	474196	BB	5.8	R
5	ETHYLBENZENE	47.589	24.899	0.003	1012092	EV	6.0	
6	M,P-XYLENE	96.401	25.133	0.005	2453604	VB	6.0	
7	O-XYLENE	47.498	26.452	0.008	1064906	BB	6.1	
8	ISOPYLBENZ	48.584	27.538	0.010	874040	BB	6.3	
9	N-PROPYLBENZ	49.196	28.786	0.013	981956	EV	5.9	
10		0.000	29.098	0.000	5886	WV	7.5	
11	1,3,5-TRIMET	49.246	29.288	0.016	1398728	VB	6.0	
12		0.000	30.084	0.000	5158	BP	6.1	
13	TERIBUTYLBEN	49.516	30.398	0.020	735295	PV	7.2	
14	1,2,4-TRIMET	48.979	30.525	0.019	1156373	VB	7.2	
15	SEC-BUTYLBEN	48.723	31.074	0.021	847854	BB	6.4	
16	P-ISOPYLTOL	49.178	31.511	0.022	836472	BB	6.0	
17		0.000	32.169	0.000	16641	BB	14.2	
18	N-BUTYL BENZ	49.373	32.824	0.027	879633	BB	5.7	
19		0.000	34.205	0.000	2660	BB	4.9	
20		0.000	36.749	0.000	14235	BB	8.1	
21	NAFTHALENE	49.859	38.021	0.055	1232094	BB	3.9	
22		0.000	38.456	0.000	2023	BB	3.5	
23		0.000	38.722	0.000	1193	BB	0.0	
Totals:		806.712		0.102	17081185			

Status Codes:

- Reference peak

Total Unidentified Counts : 47795 counts

Selected Peaks: 23 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 832 microVolts

base (used): 70 microVolts - fixed value

Noise (monitored before this run): 138 microVolts

Equal injection

COLUMBIA ANALYTICAL SERVICES

1 Mustard St. Rochester N.Y.

(716)-288-5380

Analyst: J BRYANT

**Method: 8021B TLSW HEATED
DAILY CALIBRATION DATA**

Laboratory: CAS

Instrument I.D.: HP1 - PID / FID

Column: RESTEK CAPILLARY Rtx 502.2 - 105m

ICAL Date: 03/16/05

Daily Calibration Date: 04/24/05

Time: 12:23

4/28/05

JJB 4/29

Compound	R. T. Window		R. T. Daily 50 Std	Area Units	Avg. R F	R. F. Daily 50 Std		% D	Conc. ppb
	From	To							
Methyl t-butyl ether	9.95	10.27	10.11	57.5	1.1989	1.1495		4%	50.0
Benzene	15.30	15.68	15.49	139.0	2.8289	2.7792		2%	50.0
Toluene	20.33	20.71	20.52	123.6	2.4566	2.4720		1%	50.0
Ethylbenzene	24.75	25.09	24.92	108.9	2.1268	2.1776		2%	50.0
p-Xylene + m-Xylene	24.98	25.32	25.15	265.7	2.5452	2.6571		4%	100.0
o-Xylene	26.31	26.63	26.47	114.3	2.2420	2.2862		2%	50.0
Isopropylbenzene	27.40	27.72	27.56	93.5	1.7990	1.8698		4%	50.0
n-Propylbenzene	28.64	28.96	28.80	105.3	1.9960	2.1065		6%	50.0
1,3,5-Trimethylbenzene	29.14	29.46	29.30	149.8	2.8403	2.9961		5%	50.0
tert-Butylbenzene	30.26	30.56	30.41	77.8	1.4850	1.5552		5%	50.0
1,2,4-Trimethylbenzene	30.39	30.69	30.54	124.5	2.3610	2.4892		5%	50.0
sec-Butylbenzene	30.95	31.23	31.09	91.2	1.7402	1.8236		5%	50.0
p-Isopropyltoluene	31.39	31.65	31.52	90.2	1.7009	1.8041		6%	50.0
n-Butylbenzene	32.73	32.95	32.84	95.2	1.7816	1.9035		7%	50.0
Naphthalene	37.91	38.13	38.02	120.4	2.4711	2.4082		3%	50.0
AVG %D =								4%	
SURROGATES									
Chlorofluorobezene	23.41	23.77	23.59	49.5	1.7218	1.6499		4%	30.0

JB 63

Run File : j:\acqdata\hp1\data\042805\1.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : CCV #1

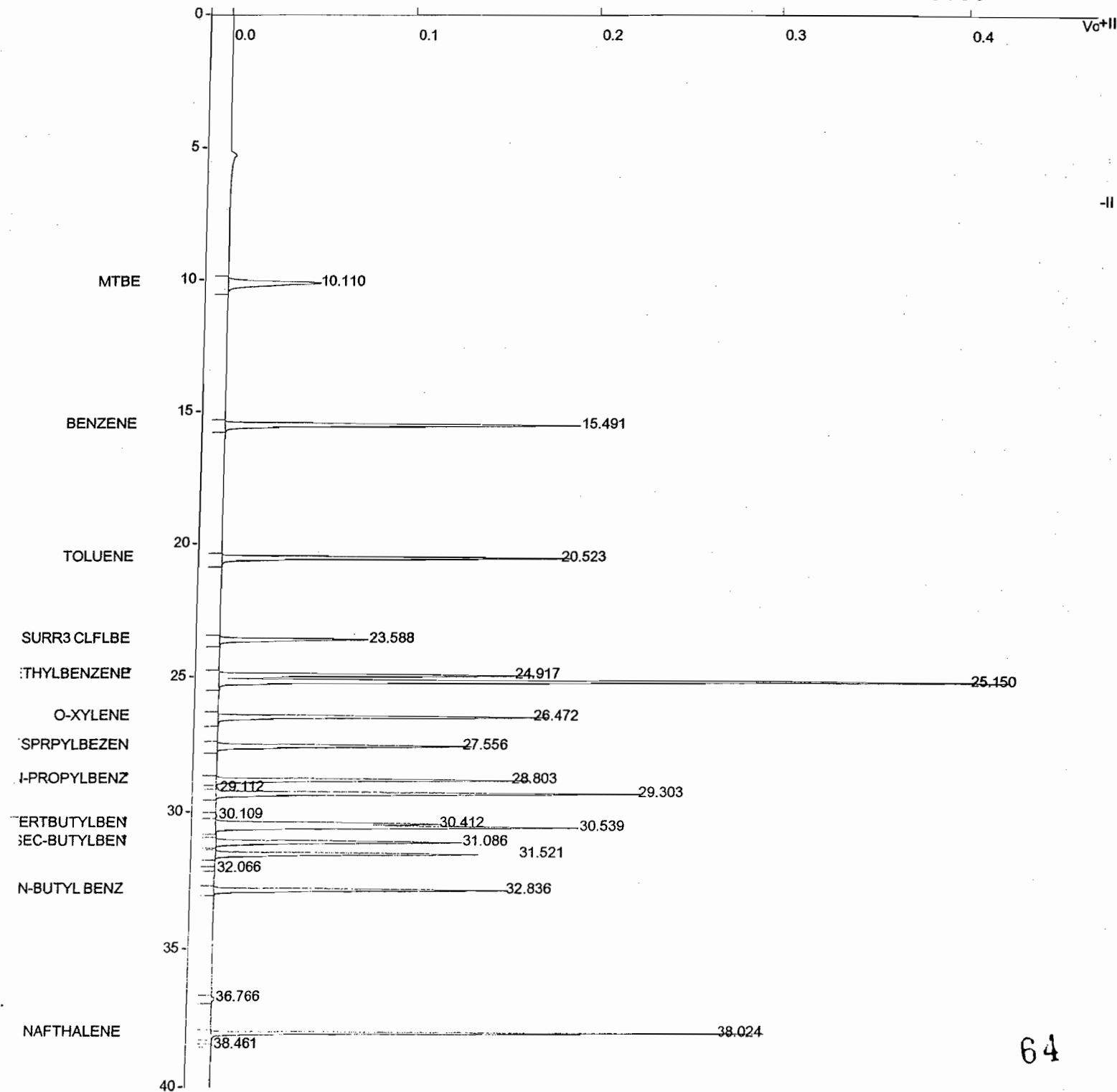
4/28

Injection Date: 4/28/05 12:23 PM Calculation Date: 4/28/05 1:03 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 2013 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acq\data\hpl\data\042805\1.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpl0316s.mth
 Sample ID : CCV #1

Injection Date: 4/28/05 12:23 PM Calculation Date: 4/28/05 1:03 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqu Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22bd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	MIBE	47.939	10.110	-0.032	574739	EB	10.6	
2	BENZENE	49.122	15.491	-0.016	1389605	EB	6.8	
3	TOLUENE	50.315	20.523	-0.003	1236031	EB	6.2	
4	SUR3 CLFBE	28.747	23.588	-0.044	494966	EB	5.8	R
5	EIHYLBENZENE	51.194	24.917	0.001	1088779	BV	6.0	
6	M,P-XYLENE	104.394	25.150	0.002	2657050	VB	5.9	
7	O-XYLENE	50.985	26.472	0.007	1143094	EB	6.0	
8	ISRPYLBENZ	51.968	27.556	0.006	934920	EB	6.4	
9	N-PROPYLBENZ	52.768	28.803	0.008	1053252	BV	5.9	
10		0.000	29.112	0.000	5674	W	7.1	
11	1,3,5-TRIMET	52.743	29.303	0.008	1498063	VB	6.1	
12		0.000	30.109	0.000	4917	EP	5.9	
13	TERIBUTYLBEN	52.364	30.412	0.009	777590	FV	7.0	
14	1,2,4-TRIMET	52.715	30.539	0.009	1244583	VB	6.8	
15	SEC-BUTYLBEN	52.398	31.086	0.008	911813	EB	6.4	
16	P-ISRPYLTOL	53.035	31.521	0.008	902072	EB	5.9	
17		0.000	32.066	0.000	1820	EB	0.0	
18	N-BUTYL BENZ	53.420	32.836	0.012	951735	EB	5.7	
19		0.000	36.766	0.000	12974	EB	8.7	
20	NAFTHALENE	48.726	38.024	0.028	1204091	EB	3.8	
21		0.000	38.461	0.000	1592	EB	3.1	
Totals:		852.833		0.011	18089360			

tatus Codes:

- Reference peak

total Unidentified Counts : 26976 counts

ected Peaks: 21 Rejected Peaks: 0 Identified Peaks: 16

ultiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

aseline Offset: 622 microVolts

ise (used): 70 microVolts - fixed value

ise (monitored before this run): 79 microVolts

Manual injection

VOLATILE ORGANICS

RAW QC DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 05/04/05

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 810651	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/22/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	1.0 U	UG/KG
SEC-BUTYLBENZENE	1.0	1.0 U	UG/KG
TERT-BUTYLBENZENE	1.0	1.0 U	UG/KG
N-BUTYLBENZENE	1.0	1.0 U	UG/KG
METHYL-TERT-BUTYLETHER	1.0	1.0 U	UG/KG
ETHYLBENZENE	1.0	1.0 U	UG/KG
ISOPROPYLBENZENE	1.0	1.0 U	UG/KG
P-ISOPROPYLTOLUENE	1.0	1.0 U	UG/KG
NAPHTHALENE	1.0	1.0 U	UG/KG
N-PROPYLBENZENE	1.0	1.0 U	UG/KG
TOLUENE	1.0	1.0 U	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	1.0 U	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	1.0 U	UG/KG
O-XYLENE	2.0	2.0 U	UG/KG
M+P-XYLENE	2.0	2.0 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

CHLOROFLUOROBENZENE

(39 - 136 %)

102

%

CP 9/27/07
1568

Run File : j:\acqdata\hp1\data\042205\1001.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : 1 METHOD BLANK

gbr/12

810651

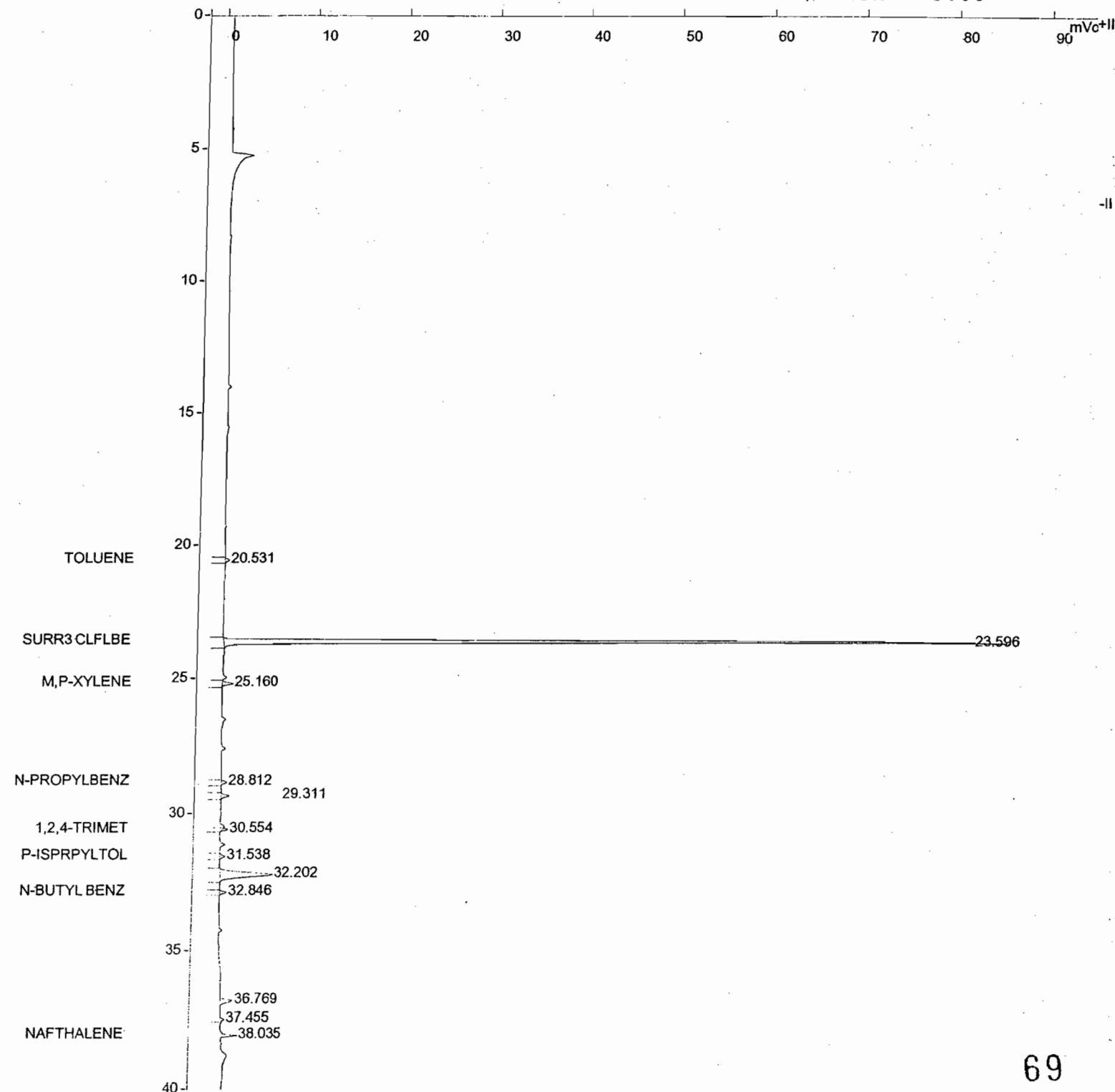
Injection Date: 4/22/05 1:36 PM Calculation Date: 4/22/05 2:17 PM

Operator : J BRYANT
Workstation: Acqu
Instrument : HP1
Channel : A = PID

Detector Type: ADCB (1 Volt)
Bus Address : 16
Sample Rate : 10.00 Hz
Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 405 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



File : HPI 8021B.TLSW
 Run File : j:\acqdata\hpi\data\042205\1001.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpi0316s.mth
 Sample ID : 1 METHOD BLANK

Injection Date: 4/22/05 1:36 PM Calculation Date: 4/22/05 2:17 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acq Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22nd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	MIBK		10.146					M
2	BENZENE		15.513					M
3	TOLUENE	0.125	20.531	-0.002	3082	BB	5.9	
4	SURF CLFEE	30.518	23.596	-0.036	525460	BB	5.8	R
5	ETHYLBENZENE		24.925					M
6	M,P-XYLENE	0.287	25.160	0.003	7300	BB	5.6	
7	O-XYLENE		26.475					M
8	ISOPYMBEZEN		27.559					M
9	N-PROPYLBENZ	0.167	28.812	0.006	3341	BB	5.4	
10	1,3,5-TRIMET	0.204	29.311	0.006	5800	BB	5.7	
11	TERIBUTYLBEN		30.413					M
12	1,2,4-TRIMET	0.103	30.554	0.013	2423	BB	3.7	
13	SEC-BUTYLBEN		31.089					M
14	P-ISOPYLTOL	0.212	31.538	0.013	3611	BB	6.0	
15		0.000	32.202	0.000	69971	BB	11.4	
16	N-BUTYL BENZ	0.229	32.846	0.010	4074	BB	5.4	
17		0.000	36.769	0.000	10767	BB	8.1	
18		0.000	37.455	0.000	1489	BB	0.0	
19	NAFTHALENE	0.263	38.035	0.026	6505	BB	3.5	
Totals:		32.108		0.039	643823			

Status Codes:

- Reference peak
 ! Missing peak

Total Unidentified Counts : 82227 counts

Accepted Peaks: 12 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 588 microVolts

Offset (used): 70 microVolts - fixed value
 Offset (monitored before this run): 86 microVolts

Manual injection

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 05/04/05

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled : Order #: 810713 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/28/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	1.0 U	UG/KG
SEC-BUTYLBENZENE	1.0	1.0 U	UG/KG
TERT-BUTYLBENZENE	1.0	1.0 U	UG/KG
N-BUTYLBENZENE	1.0	1.0 U	UG/KG
METHYL-TERT-BUTYLETHER	1.0	1.0 U	UG/KG
ETHYLBENZENE	1.0	1.0 U	UG/KG
ISOPROPYLBENZENE	1.0	1.0 U	UG/KG
P-ISOPROPYLTOLUENE	1.0	1.0 U	UG/KG
NAPHTHALENE	1.0	1.0 U	UG/KG
N-PROPYLBENZENE	1.0	1.0 U	UG/KG
TOLUENE	1.0	1.0 U	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	1.0 U	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	1.0 U	UG/KG
O-XYLENE	2.0	2.0 U	UG/KG
M+P-XYLENE	2.0	2.0 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

CHLOROFLUOROBENZENE (39 - 136 %) 97 %

CR 9/27/07
16 72

Run File : j:\acqdata\hpl\data\042805\1001.run
Method File : J:\ACQUDATA\HPL\METHODS\Hp10316s.mth
Sample ID : 1 METHOD BLANK

4/28

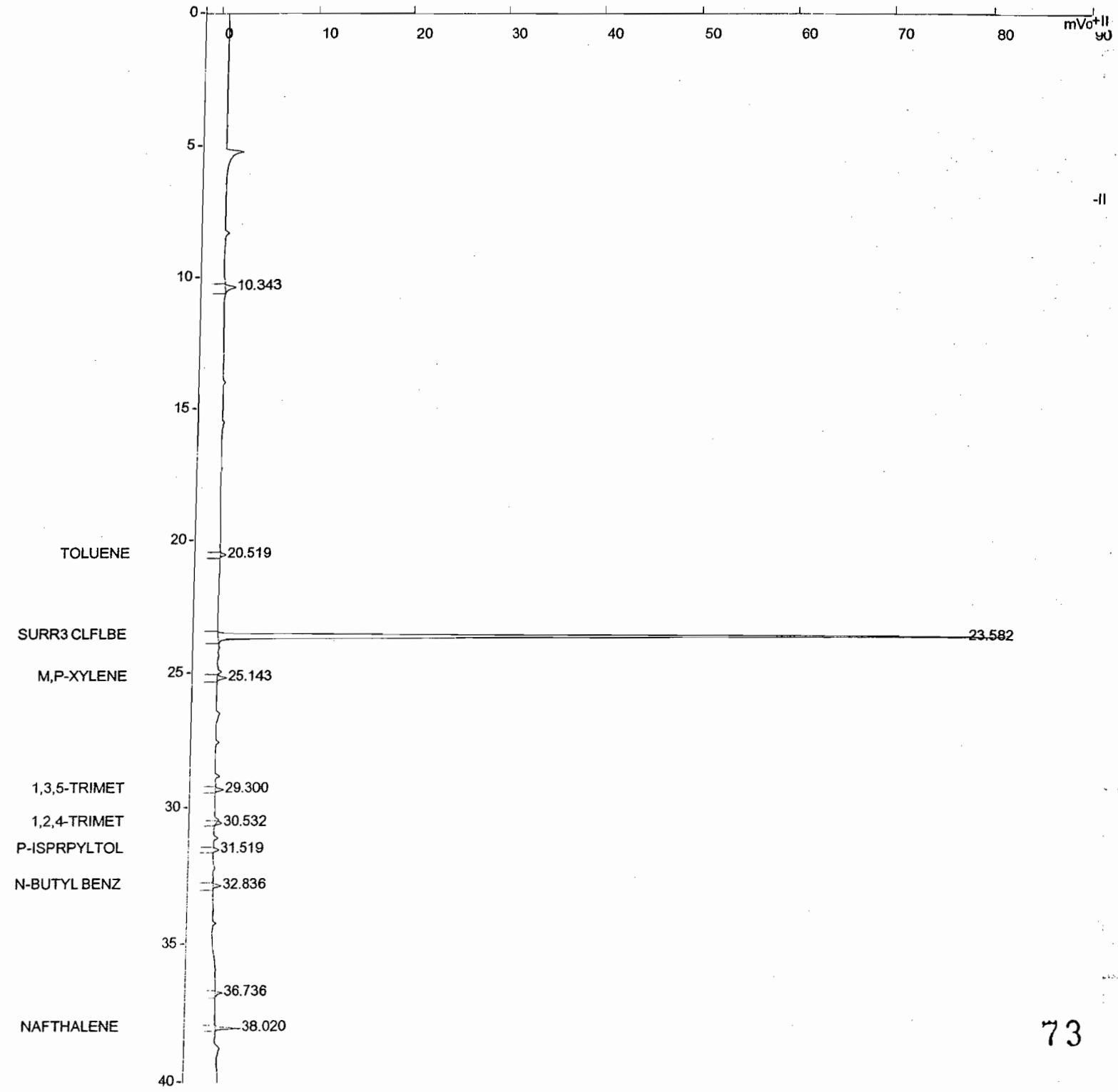
810713

Injection Date: 4/28/05 1:42 PM Calculation Date: 4/28/05 2:22 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HPL Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 384 Zero Offset = 1%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpl\data\042805\1001.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpi0316s.mth
 Sample ID : 1 METHOD BLANK

Injection Date: 4/28/05 1:42 PM Calculation Date: 4/28/05 2:22 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

* Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22hd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak Nb.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	MIBB		10.140					M
2		0.000	10.343	0.000	10241	BB	8.2	
3	BENZENE		15.503					M
4	TOLUENE	0.143	20.519	-0.001	3523	BB	5.6	
5	SUR3 CLFEE	29.009	23.582	-0.050	499485	BB	5.8	R
6	EIHMIBENZENE		24.910					M
7	M,P-XYLENE	0.248	25.143	0.002	6324	BB	5.9	
8	O-XYLENE		26.459					M
9	ISOPYMBENZEN		27.543					M
10	N-PROPYLENZ		28.788					M
11	1,3,5-TRIMET	0.179	29.300	0.012	5097	BB	5.7	
12	TERIBUTYLEN		30.395					M
13	1,2,4-TRIMET	0.123	30.532	0.010	2904	BB	4.2	
14	SEC-BUTYLEN		31.070					M
15	P-ISOPYLTOL	0.193	31.519	0.013	3275	BB	5.4	
16	N-BUTYL BENZ	0.272	32.836	0.020	4840	BB	5.7	
17		0.000	36.736	0.000	4256	BB	4.0	
18	NAFTHALENE	0.483	38.020	0.034	11932	BB	4.0	
Totals:		30.650		0.040	551877			

Status Codes:

R - Reference peak

M - Missing peak

Total Unidentified Counts : 14498 counts

Rejected Peaks: 10 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 735 microVolts

Offset (used): 70 microVolts - fixed value

Offset (monitored before this run): 51 microVolts

Manual injection

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 09/27/07

Project Reference:

Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :	Order #: 810652	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/22/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	19	UG/KG
SEC-BUTYLBENZENE	1.0	19	UG/KG
TERT-BUTYLBENZENE	1.0	19	UG/KG
N-BUTYLBENZENE	1.0	20	UG/KG
METHYL-TERT-BUTYLETHER	1.0	22	UG/KG
ETHYLBENZENE	1.0	20	UG/KG
ISOPROPYLBENZENE	1.0	18	UG/KG
P-ISOPROPYLTOLUENE	1.0	19	UG/KG
NAPHTHALENE	1.0	18	UG/KG
N-PROPYLBENZENE	1.0	19	UG/KG
TOLUENE	1.0	19	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	20	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	20	UG/KG
O-XYLENE	2.0	16	UG/KG
M+P-XYLENE	2.0	39	UG/KG

SURROGATE RECOVERIESQC LIMITS

CHLOROFLUOROBENZENE

(39 - 136 %)

100

%

Run File : j:\acqdata\hp1\data\042205\1002.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : 1 20 PPB TL LCS

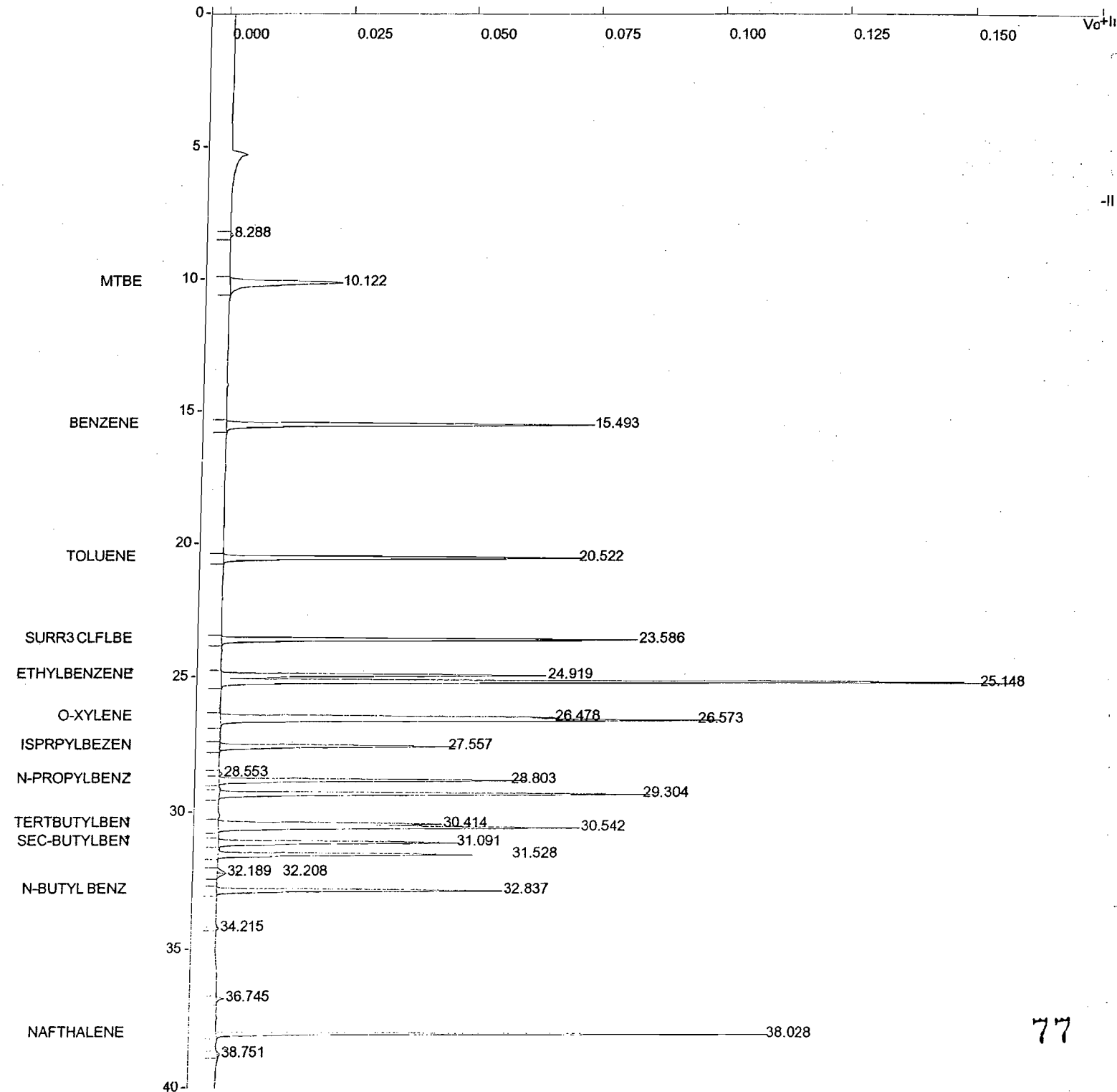
810652
jbr/22

Injection Date: 4/22/05 2:37 PM Calculation Date: 4/22/05 3:17 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 747 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Acq On : 3 Oct 2007 5:09 pm

Operator: K.Ruest

Sample : 150 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:10 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:11:18 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.06	97	927450	150.47	ppb	98
38) Cyclohexane	11.18	56	1829779	150.81	ppb	99
41) Carbontetrachloride	11.35	117	843087	148.99	ppb	98
42) 1,1-Dichloropropene	11.32	75	1073600	144.45	ppb	100
43) Iso-Butyl Alcohol	11.26	43	1720801	2964.83	ppb	95
45) Benzene	11.71	78	2917300	147.75	ppb	99
46) 1,2-Dichloroethane	11.69	62	1049392	145.94	ppb	97
47) N-Heptane	12.02	43	1924095	152.87	ppb	100
48) Trichloroethene	12.78	95	751662	149.92	ppb	91
49) Methylcyclohexane	13.19	55	1571699	148.24	ppb	98
50) 1,2-Dichloropropane	13.20	63	1006568	142.83	ppb	94
51) Methyl Methacrylate	13.24	100	246383	149.19	ppb	98
52) 1,4-Dioxane	13.38	88	241711	2954.09	ppb	100
53) Dibromomethane	13.42	93	578915	145.21	ppb	97
54) Bromodichloromethane	13.65	83	1103562	153.04	ppb	97
55) 2-Nitropropane	14.02	43	799998	311.50	ppb	97
56) 2-Chloroethylvinyl Ether	14.09	63	722505	139.67	ppb	96
57) cis-1,3-Dichloropropene	14.45	75	1470426	152.70	ppb	98
59) 4-Methyl-2-Pentanone	14.65	43	1745288	145.30	ppb	99
60) Toluene	15.12	91	2870559	144.63	ppb	97
61) trans-1,3-Dichloropropene	15.44	75	1332254	154.09	ppb	99
62) Ethyl Methacrylate	15.50	69	1390960	148.88	ppb	98
63) 1,1,2-Trichloroethane	15.83	83	694756	148.65	ppb	96
66) Tetrachloroethene	16.19	166	801565	146.58	ppb	98
67) 2-Hexanone	16.21	43	1372189	144.44	ppb	98
68) 1,3-Dichloropropane	16.17	76	1423290	149.67	ppb	100
70) Dibromochloromethane	16.64	129	966729	152.31	ppb	98
71) 1,2-Dibromoethane	16.93	107	897933	149.99	ppb	96
72) Chlorobenzene	17.88	112	2067573	145.35	ppb	96
73) 1,1,1,2-Tetrachloroethane	17.98	131	761479	149.23	ppb	97
74) Ethylbenzene	18.02	91	3446438	147.87	ppb	98
75) (m+p)Xylene	18.25	106	2557775	299.51	ppb	98
76) o-Xylene	19.08	106	1263335	143.96	ppb	99
77) Styrene	19.09	104	2173670	146.99	ppb	99
78) Bromoform	19.54	173	725195	148.83	ppb	97
79) Isopropylbenzene	19.80	105	3325629	149.27	ppb	100
80) Cyclohexanone	20.06	55	3586736	3038.76	ppb	100
82) 1,1,2,2-Tetrachloroethane	20.36	83	1277357	139.47	ppb	98
83) Trans-1,4-Dichloro-2-buten	20.47	53	293138	149.07	ppb	87
84) 1,2,3-Trichloropropane	20.51	110	330478	146.66	ppb	98
85) n-Propylbenzene	20.65	91	4369125	144.59	ppb	100
86) Bromobenzene	20.54	156	914728	143.94	ppb	97
87) 1,3,5-Trimethylbenzene	20.97	105	2743315	144.23	ppb	97
88) 2-Chlorotoluene	20.90	91	2443694	140.44	ppb	100
89) 4-Chlorotoluene	21.11	91	2595600	146.56	ppb	99
90) tert-Butylbenzene	21.70	119	2369366	143.69	ppb	99
91) 1,2,4-Trimethylbenzene	21.79	105	2714428	142.42	ppb	98
92) sec-Butylbenzene	22.15	105	3777703	146.80	ppb	99
93) p-Isopropyltoluene	22.42	119	3180203	147.41	ppb	99
94) 1,3-Dichlorobenz	22.48	146	1672136	143.67	ppb	99

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

Q7779.D SOL1003.M Thu Oct 04 15:12:49 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7779.D

Vial: 32

Acq On : 3 Oct 2007 5:09 pm

Operator: K.Ruest

Sample : 150 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:10 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:11:18 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.66	146	1725127	145.94	ppb	100
96) n-Butylbenzene	23.34	91	3202486	146.10	ppb	97
97) 1,2-Dclbenz	23.52	146	1592357	144.95	ppb	98
98) 1,2-Dibromo-3-chloropropan	25.39	157	283123	139.04	ppb	96
99) Nitrobenzene	25.94	77	239443	165.07	ppb	88
100) 1,2,4-Tcbenzene	27.47	180	1047929	145.17	ppb	97
101) Hexachlorobu	27.81	225	591109	141.56	ppb	96
102) Naphthalen	28.11	128	2815501	144.66	ppb	100
103) 1,2,3-Tclbenzene	28.71	180	971195	147.64	ppb	98

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

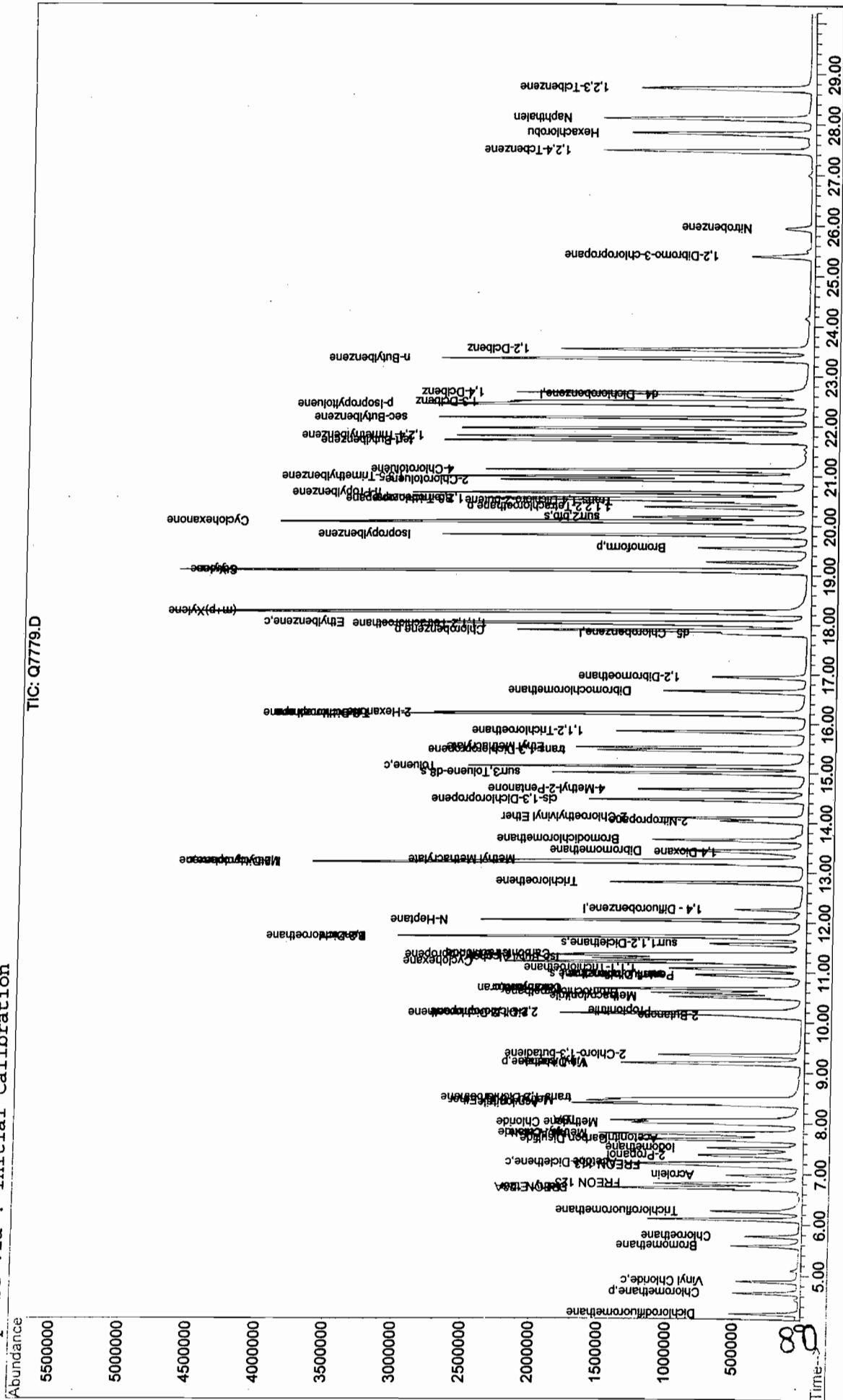
Q7779.D SOL1003.M Thu Oct 04 15:12:50 2007

Lab File : J:\ACQDATA\MSVOA7\DATA\100307\Q7779.D
Acq On : 3 Oct 2007 5:09 pm
Sample : 150 PPB
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 4 15:10 2007

Vial: 32
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

Method : J:\ACQDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title : 8260vov
Last Update : Thu Oct 04 15:12:42 2007
Response via : Initial Calibration



Acq On : 3 Oct 2007 5:45 pm

Operator: K.Ruest

Sample : 200 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:12 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260vov

Last Update : Thu Oct 04 15:12:42 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.91	168	347058	50.00	ppb	0.00
39) 1,4 - Difluorobenzene	12.26	114	604700	50.00	ppb	0.00
58) d5 - Chlorobenzene	17.81	117	559250	50.00	ppb	0.00
81) d4 - Dichlorobenzene	22.60	152	275910	50.00	ppb	0.00
System Monitoring Compounds						
40) surr4, Dibrflmethane	10.94	113	711728	147.21	ppb	0.00
Spiked Amount 50.000			Recovery =	294.42%		
44) surr1, 1,2-Dicethane	11.56	65	724580	147.89	ppb	0.00
Spiked Amount 50.000			Recovery =	295.78%		
64) surr3, Toluene-d8	14.99	98	2178731	147.28	ppb	0.00
Spiked Amount 50.000			Recovery =	294.56%		
65) surr2, bfb	20.15	95	981672	153.92	ppb	0.00
Spiked Amount 50.000			Recovery =	307.84%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.25	85	907573	218.78	ppb	98
3) Chloromethane	4.66	50	1278641	214.31	ppb	98
4) Vinyl Chloride	4.88	62	923704	214.72	ppb	96
5) Bromomethane	5.58	96	704547	200.44	ppb	93
6) Chloroethane	5.76	64	704441	190.92	ppb	96
7) Trichlorofluoromethane	6.25	101	1192507	216.39	ppb	97
8) Diethyl Ether	6.72	59	809465	193.81	ppb	98
9) FREON 123A	6.70	67	1308095	195.45	ppb	98
10) FREON 123	6.80	83	1406020	204.88	ppb	97
11) Acrolein	6.97	56	1006274	1020.12	ppb	99
12) FREON 113	7.15	85	362649	208.12	ppb	90
13) 1,1-Dicethene	7.19	96	711468	215.07	ppb	92
14) Acetone	7.21	43	497808	197.12	ppb	99
15) 2-Propanol	7.35	45	2952717	3825.51	ppb	98
16) Iodomethane	7.50	127	733452	217.21	ppb	94
17) Carbon Disulfide	7.66	76	3338431	207.21	ppb	100
18) Acetonitrile	7.70	41	1037636	1054.47	ppb	98
19) Allyl Chloride	7.79	41	2134160	198.18	ppb	99
20) Methyl Acetate	7.76	43	1959147	200.76	ppb	98
21) Methylene Chloride	7.99	84	1010176	204.67	ppb	99
22) TBA	8.04	59	3684529	3813.60	ppb	96
23) Acrylonitrile	8.37	53	2825718	995.12	ppb	100
24) Methyl-t-Butyl Ether	8.43	73	2554628	201.83	ppb	98
25) trans-1,2-Dichloroethene	8.47	96	909214	199.53	ppb	94
26) 1,1-Dicethane	9.18	63	2048010	206.49	ppb	95
27) Vinyl Acetate	9.16	43	1873644	202.39	ppb	99
28) 2-Chloro-1,3-butadiene	9.34	53	1414068	215.88	ppb	99
29) 2,2-Dichloropropane	10.18	77	1290891	191.68	ppb	96
30) 2-Butanone	10.10	43	1055855	198.96	ppb	97
31) cis-1,2-Dichloroethene	10.15	96	1052573	206.14	ppb	99
32) Propionitrile	10.22	54	1221614	1024.11	ppb	100
33) Methacrylonitrile	10.50	67	566043	217.07	ppb	87
34) Bromochloromethane	10.57	128	581904	196.37	ppb	98
35) Chloroform	10.65	83	1781912	203.46	ppb	99
36) Tetrahydrofuran	10.65	42	601777	179.92	ppb	99

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

Q7780.D SOL1003.M Thu Oct 04 15:14:46 2007

Acq On : 3 Oct 2007 5:45 pm

Operator: K.Ruest

Sample : 200 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:12 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:12:42 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.06	97	1306423	212.56	ppb	96
38) Cyclohexane	11.19	56	2476096	204.67	ppb	99
41) Carbontetrachloride	11.36	117	1183719	213.17	ppb	99
42) 1,1-Dichloropropene	11.32	75	1493650	204.79	ppb	100
43) Iso-Butyl Alcohol	11.25	43	2306092	4048.86	ppb	99
45) Benzene	11.70	78	3948298	203.78	ppb	100
46) 1,2-Dichloroethane	11.69	62	1396984	197.98	ppb	95
47) N-Heptane	12.02	43	2566587	207.79	ppb	100
48) Trichloroethene	12.78	95	1059465	215.33	ppb	96
49) Methylcyclohexane	13.19	55	2180949	209.62	ppb	97
50) 1,2-Dichloropropane	13.20	63	1404391	203.07	ppb	94
51) Methyl Methacrylate	13.23	100	334317	206.29	ppb	99
52) 1,4-Dioxane	13.38	88	332114	4136.21	ppb	98
53) Dibromomethane	13.42	93	785147	200.69	ppb	97
54) Bromodichloromethane	13.65	83	1512808	213.78	ppb	99
55) 2-Nitropropane	14.02	43	1014425	402.51	ppb	99
56) 2-Chloroethylvinyl Ether	14.09	63	1023178	201.56	ppb	98
57) cis-1,3-Dichloropropene	14.45	75	2012310	212.95	ppb	100
59) 4-Methyl-2-Pentanone	14.65	43	2447479	210.69	ppb	99
60) Toluene	15.12	91	4032282	210.08	ppb	98
61) trans-1,3-Dichloropropene	15.44	75	1777671	212.61	ppb	98
62) Ethyl Methacrylate	15.50	69	1901798	210.48	ppb	97
63) 1,1,2-Trichloroethane	15.83	83	952163	210.66	ppb	96
66) Tetrachloroethene	16.19	166	1126090	212.93	ppb	96
67) 2-Hexanone	16.21	43	1867280	203.25	ppb	99
68) 1,3-Dichloropropane	16.17	76	1934393	210.34	ppb	98
70) Dibromochloromethane	16.64	129	1322706	215.49	ppb	99
71) 1,2-Dibromoethane	16.93	107	1199348	207.16	ppb	99
72) Chlorobenzene	17.87	112	2927842	212.83	ppb	97
73) 1,1,1,2-Tetrachloroethane	17.99	131	1056702	214.14	ppb	97
74) Ethylbenzene	18.02	91	4713233	209.10	ppb	98
75) (m+p)Xylene	18.24	106	3500051	423.80	ppb	99
76) o-Xylene	19.08	106	1836865	216.45	ppb	95
77) Styrene	19.09	104	3088338	215.95	ppb	100
78) Bromoform	19.54	173	1014990	215.40	ppb	96
79) Isopropylbenzene	19.80	105	4602068	213.60	ppb	99
80) Cyclohexanone	20.05	55	4718227	4120.74	ppb	98
82) 1,1,2,2-Tetrachloroethane	20.36	83	1738123	197.99	ppb	96
83) Trans-1,4-Dichloro-2-buten	20.47	53	390819	207.34	ppb	77
84) 1,2,3-Trichloropropane	20.51	110	443612	205.39	ppb	97
85) n-Propylbenzene	20.65	91	5994612	206.97	ppb	99
86) Bromobenzene	20.54	156	1240691	203.69	ppb	95
87) 1,3,5-Trimethylbenzene	20.97	105	3846352	210.98	ppb	97
88) 2-Chlorotoluene	20.89	91	3738877	224.18	ppb	97
89) 4-Chlorotoluene	21.11	91	3520083	207.37	ppb	99
90) tert-Butylbenzene	21.69	119	3358327	212.48	ppb	98
91) 1,2,4-Trimethylbenzene	21.78	105	3728373	204.09	ppb	99
92) sec-Butylbenzene	22.15	105	5118720	207.53	ppb	99
93) p-Isopropyltoluene	22.42	119	4326606	209.23	ppb	99
94) 1,3-Dichlorobenz	22.47	146	2272215	203.68	ppb	99

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

Q7780.D SOL1003.M Thu Oct 04 15:14:47 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7780.D

Vial: 33

Acq On : 3 Oct 2007 5:45 pm

Operator: K.Ruest

Sample : 200 PPB

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:12 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:12:42 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

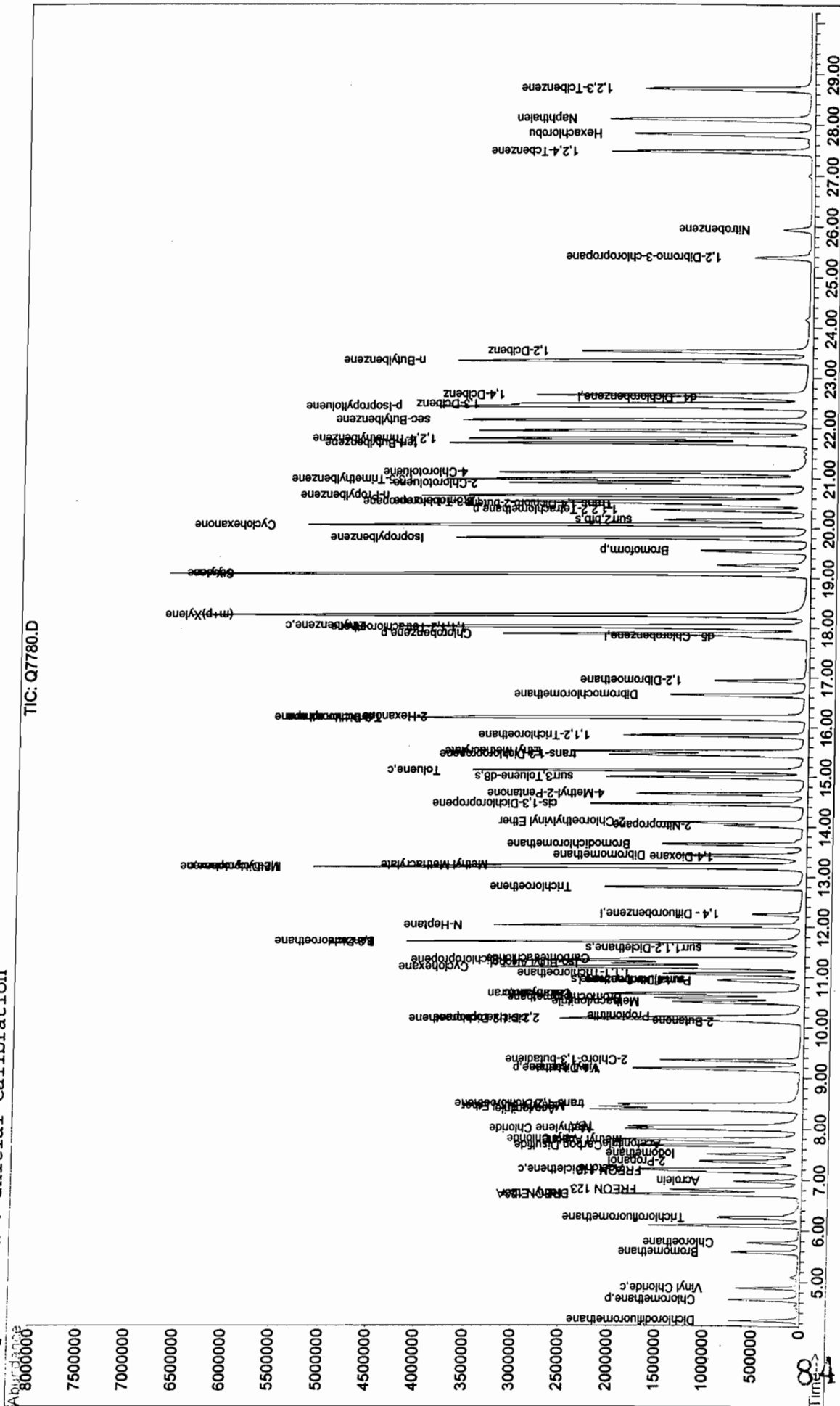
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.66	146	2291331	202.24	ppb	99
96) n-Butylbenzene	23.34	91	4334279	206.29	ppb	97
97) 1,2-Dclbenz	23.52	146	2108198	200.21	ppb	99
98) 1,2-Dibromo-3-chloropropan	25.39	157	387718	198.64	ppb	98
99) Nitrobenzene	25.94	77	364503	262.16	ppb	86
100) 1,2,4-Tcbenzene	27.47	180	1453305	210.05	ppb	99
101) Hexachlorobu	27.81	225	826262	206.45	ppb	95
102) Naphthalen	28.11	128	3832637	205.45	ppb	99
103) 1,2,3-Tclbenzene	28.70	180	1332923	211.40	ppb	96

(#) = qualifier out of range (m) = manual integration
Q7780.D SOL1003.M Thu Oct 04 15:14:47 2007

Vial: 33
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

```
Method : J:\ACQUDATA\MSVOA7\METHOD
Title : 8260voa
Last Update : Thu Oct 04 15:12:42 2007
Response via : Initial Calibration
```



Acq On : 4 Oct 2007 10:53 am

Operator: K.Ruest

Sample : CCV

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	-0.02
2	Dichlorodifluoromethane	0.598	0.645	-7.9	114	0.00
3 p	Chloromethane	0.860	0.912	-6.0	113	-0.02
4 c	Vinyl Chloride	0.620	0.664	-7.1	109	0.00
5	Bromomethane	0.506	0.531	-4.9	108	0.00
6	Chloroethane	0.532	0.531	0.2	109	-0.02
7	Trichlorofluoromethane	0.794	0.883	-11.2	111	0.00
8	Diethyl Ether	0.602	0.618	-2.7	103	-0.02
9	FREON 123A	0.964	0.951	1.3	90	-0.02
10	FREON 123	0.989	0.999	-1.0	92	-0.02
11	Acrolein	0.142	0.145	-2.1	96	-0.02
12	FREON 113	0.251	0.253	-0.8	102	-0.02
13 c	1,1-Dicethene	0.477	0.528	-10.7	117	-0.02
14	Acetone	0.364	0.390	-7.1	108	-0.02
15	2-Propanol	0.111	0.105	5.4	89	-0.02
16	Iodomethane	0.486	0.540	-11.1	103	-0.02
17	Carbon Disulfide	2.321	2.547	-9.7	105	0.00
18	Acetonitrile	0.142	0.149	-4.9	109	-0.02
19	Allyl Chloride	1.551	1.601	-3.2	103	-0.02
20	Methyl Acetate	1.406	1.359	3.3	92	-0.02
21	Methylene Chloride	0.711	0.715	-0.6	104	-0.02
22	TBA	0.139	0.141	-1.4	100	-0.02
23	Acrylonitrile	0.409	0.428	-4.6	104	0.00
24	Methyl-t-Butyl Ether	1.824	1.864	-2.2	105	-0.02
25	trans-1,2-Dichloroethene	0.656	0.665	-1.4	112	-0.02
26 p	1,1-Dicethane	1.429	1.528	-6.9	111	-0.02
27	Vinyl Acetate	1.334	1.425	-6.8	100	-0.02
28	2-Chloro-1,3-butadiene	0.944	1.007	-6.7	100	-0.02
29	2,2-Dichloropropane	0.970	0.947	2.4	106	-0.02
30	2-Butanone	0.765	0.776	-1.4	98	-0.02
31	cis-1,2-Dichloroethene	0.736	0.760	-3.3	111	-0.02
32	Propionitrile	0.172	0.163	5.2	96	-0.02
33	Methacrylonitrile	0.376	0.401	-6.6	105	-0.02
34	Bromochloromethane	0.427	0.421	1.4	109	-0.02
35 c	Chloroform	1.262	1.315	-4.2	108	-0.02
36	Tetrahydrofuran	0.482	0.453	6.0	100	-0.02
37	1,1,1-Trichloroethane	0.885	0.933	-5.4	112	-0.02
38	Cyclohexane	1.743	1.722	1.2	94	-0.02
39 I	1,4 - Difluorobenzene	1.000	1.000	0.0	101	-0.03
40 s	surr4,Dibrflmethane	0.400	0.365	8.8	96	-0.03
41	Carbontetrachloride	0.459	0.477	-3.9	111	-0.02
42	1,1-Dichloropropene	0.603	0.614	-1.8	107	-0.02
43	Iso-Butyl Alcohol	0.047	0.048	-2.1	98	0.00
44 s	surr1,1,2-Dicethane	0.405	0.365	9.9	95	-0.02
45	Benzene	1.602	1.616	-0.9	109	0.00
46	1,2-Dichloroethane	0.583	0.576	1.2	104	-0.02
47	N-Heptane	1.021	1.072	-5.0	115	-0.02
48	Trichloroethene	0.407	0.433	-6.4	109	-0.02
49	Methylcyclohexane	0.860	0.868	-0.9	98	-0.03

(#)= Out of Range

Q7786.D SOL1003.M

Thu Oct 04 15:33:54 2007

Page 1

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7786.D
 Acq On : 4 Oct 2007 10:53 am
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P

Vial: 27
 Operator: K.Ruest
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
 Title : 8260voa
 Last Update : Thu Oct 04 15:14:55 2007
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50 c	1,2-Dichloropropane	0.572	0.573	-0.2	106	0.00
51	Methyl Methacrylate	0.134	0.142	-6.0	111	0.00
52	1,4-Dioxane	0.007	0.007	0.0	102	-0.02
53	Dibromomethane	0.323	0.335	-3.7	110	-0.02
54	Bromodichloromethane	0.585	0.635	-8.5	110	-0.03
55	2-Nitropropane	0.208	0.212	-1.9	108	-0.02
56	2-Chloroethylvinyl Ether	0.420	0.420	0.0	105	-0.02
57	cis-1,3-Dichloropropene	0.781	0.830	-6.3	108	-0.02
58 I	d5 - Chlorobenzene	1.000	1.000	0.0	97	-0.02
59	4-Methyl-2-Pentanone	1.039	1.088	-4.7	102	-0.02
50 c	Toluene	1.716	1.802	-5.0	108	-0.02
1	trans-1,3-Dichloropropene	0.748	0.796	-6.4	108	-0.02
2	Ethyl Methacrylate	0.808	0.865	-7.1	107	-0.02
63	1,1,2-Trichloroethane	0.404	0.416	-3.0	106	-0.02
64 s	surr3,Toluene-d8	1.323	1.213	8.3	95	-0.02
5 s	surr2,bfb	0.570	0.522	8.4	99	-0.02
6	Tetrachloroethene	0.473	0.499	-5.5	113	-0.02
67	2-Hexanone	0.821	0.862	-5.0	101	-0.02
68	1,3-Dichloropropane	0.822	0.869	-5.7	105	-0.02
9	Butyl Acetate	0.000	0.000	0.0	101	-0.02
70	Dibromochloromethane	0.549	0.581	-5.8	106	-0.02
71	1,2-Dibromoethane	0.518	0.533	-2.9	103	-0.02
72 p	Chlorobenzene	1.230	1.273	-3.5	107	-0.02
3	1,1,1,2-Tetrachloroethane	0.441	0.478	-8.4	108	0.00
74 c	Ethylbenzene	2.015	2.157	-7.0	112	-0.02
75	(m+p)Xylene	0.738	0.768	-4.1	111	-0.02
76	o-Xylene	0.759	0.800	-5.4	114	-0.03
7	Styrene	1.279	1.354	-5.9	111	-0.03
78 p	Bromoform	0.421	0.431	-2.4	105	-0.03
79	Isopropylbenzene	1.926	2.014	-4.6	108	-0.03
80	Cyclohexanone	0.109	0.130	-29.5	147	-0.02
81 I	d4 - Dichlorobenzene	1.000	1.000	0.0	97	-0.03
82 p	1,1,2,2-Tetrachloroethane	1.591	1.630	-2.5	102	-0.03
83	Trans-1,4-Dichloro-2-butene	0.342	0.358	-4.7	105	-0.02
84	1,2,3-Trichloropropane	0.391	0.391	0.0	103	-0.02
85	n-Propylbenzene	5.249	5.440	-3.6	108	-0.03
86	Bromobenzene	1.104	1.114	-0.9	104	-0.03
87	1,3,5-Trimethylbenzene	3.304	3.397	-2.8	107	-0.02
88	2-Chlorotoluene	3.022	3.136	-3.8	112	-0.02
89	4-Chlorotoluene	3.076	3.230	-5.0	113	-0.02
90	tert-Butylbenzene	2.864	2.933	-2.4	108	-0.02
91	1,2,4-Trimethylbenzene	3.311	3.481	-5.1	111	-0.02
92	sec-Butylbenzene	4.470	4.568	-2.2	109	-0.03
93	p-Isopropyltoluene	3.747	3.890	-3.8	108	-0.02
94	1,3-Dichlorobenz	2.022	2.094	-3.6	108	-0.02
95	1,4-Dichlorobenz	2.053	2.101	-2.3	107	-0.03
96	n-Butylbenzene	3.808	3.894	-2.3	109	-0.03
97	1,2-Dichlorobenz	1.908	1.983	-3.9	109	-0.03

#) = Out of Range

Q7786.D SOL1003.M

Thu Oct 04 15:33:55 2007

Page 2

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7786.D

Vial: 27

Acq On : 4 Oct 2007 10:53 am

Operator: K.Ruest

Sample : CCV

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
98	1,2-Dibromo-3-chloropropane	0.354	0.346	2.3	107	-0.03
99	Nitrobenzene	0.252	0.299	-18.7	117	-0.03
100	1,2,4-Tcbenzene	1.254	1.266	-1.0	106	-0.03
101	Hexachlorobu	0.725	0.752	-3.7	112	-0.03
102	Naphthalen	3.381	3.288	2.8	102	-0.03
103	1,2,3-Tclbenzene	1.143	1.172	-2.5	110	-0.03

87

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Q7786.D SOL1003.M

Thu Oct 04 15:33:55 2007

Page 3

Acq On : 4 Oct 2007 10:53 am

Operator: K.Ruest

Sample : CCV

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:31 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	333901	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.23	114	584297	50.00	ppb	-0.03
58) d5 - Chlorobenzene	17.79	117	548530	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.57	152	263475	50.00	ppb	-0.03

System Monitoring Compounds

40) surr4,Dibrfilmethane	10.91	113	213143	45.62	ppb	-0.03
Spiked Amount 50.000			Recovery	=	91.24%	
44) surr1,1,2-Dicethane	11.54	65	213315	45.06	ppb	-0.02
Spiked Amount 50.000			Recovery	=	90.12%	
64) surr3,Toluene-d8	14.97	98	665410	45.86	ppb	-0.02
Spiked Amount 50.000			Recovery	=	91.72%	
65) surr2,bfb	20.13	95	286403	45.78	ppb	-0.02
Spiked Amount 50.000			Recovery	=	91.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.24	85	215282	53.94	ppb	98
3) Chloromethane	4.64	50	304634	53.07	ppb	98
4) Vinyl Chloride	4.87	62	221546	53.53	ppb	97
5) Bromomethane	5.57	96	177320	52.43	ppb	96
6) Chloroethane	5.75	64	177262	49.94	ppb	96
7) Trichlorofluoromethane	6.24	101	294971	55.63	ppb	100
8) Diethyl Ether	6.70	59	206219	51.32	ppb	95
9) FREON 123A	6.68	67	317552	49.32	ppb	99
10) FREON 123	6.78	83	333408	50.50	ppb	98
11) Acrolein	6.95	56	241405	254.37	ppb	99
12) FREON 113	7.14	85	84467	50.38	ppb	82
13) 1,1-Dicethene	7.18	96	176363	55.41	ppb	99
14) Acetone	7.19	43	130309	53.63	ppb	97
15) 2-Propanol	7.33	45	703642	947.55	ppb	97
16) Iodomethane	7.48	127	180290	55.50	ppb	99
17) Carbon Disulfide	7.65	76	850380	54.86	ppb	100
18) Acetonitrile	7.68	41	248043	262.00	ppb	99
19) Allyl Chloride	7.78	41	534558	51.60	ppb	99
20) Methyl Acetate	7.74	43	453868	48.34	ppb	97
21) Methylene Chloride	7.97	84	238678	50.26	ppb	96
22) TBA	8.02	59	943705	1015.25	ppb	94
23) Acrylonitrile	8.36	53	713951	261.34	ppb	99
24) Methyl-t-Butyl Ether	8.41	73	622452	51.11	ppb	97
25) trans-1,2-Dichloroethene	8.46	96	222061	50.65	ppb	97
26) 1,1-Dicethane	9.17	63	510185	53.47	ppb	94
27) Vinyl Acetate	9.15	43	475826	53.42	ppb	100
28) 2-Chloro-1,3-butadiene	9.32	53	336222	53.35	ppb	99
29) 2,2-Dichloropropane	10.16	77	316247	48.81	ppb	99
30) 2-Butanone	10.08	43	259196	50.77	ppb	99
31) cis-1,2-Dichloroethene	10.13	96	253765	51.66	ppb	94
32) Propionitrile	10.20	54	271751	236.79	ppb	95
33) Methacrylonitrile	10.48	67	133796	53.33	ppb	85
34) Bromochloromethane	10.56	128	140596	49.31	ppb	96
35) Chloroform	10.63	83	439088	52.11	ppb	97
36) Tetrahydrofuran	10.63	42	151162	46.98	ppb	99

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

Q7786.D SOL1003.M Thu Oct 04 15:33:46 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7786.D
 Acq On : 4 Oct 2007 10:53 am
 Sample : CCV
 Misc :

Vial: 27
 Operator: K.Ruest
 Inst : GC/MS Ins
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Oct 4 15:31 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)
 Title : 8260voa
 Last Update : Thu Oct 04 15:14:55 2007
 Response via : Initial Calibration
 DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.04	97	311600	52.70	ppb	98
38) Cyclohexane	11.17	56	574857	49.39	ppb	98
41) Carbontetrachloride	11.34	117	278812	51.96	ppb	99
42) 1,1-Dichloropropene	11.30	75	358712	50.90	ppb	94
43) Iso-Butyl Alcohol	11.25	43	562054	1021.27	ppb	95
45) Benzene	11.69	78	944159	50.43	ppb	99
46) 1,2-Dichloroethane	11.67	62	336352	49.33	ppb	99
47) N-Heptane	12.00	43	626347	52.48	ppb	98
48) Trichloroethene	12.76	95	252932	53.20	ppb	96
49) Methylcyclohexane	13.16	55	507259	50.46	ppb	99
50) 1,2-Dicloropropane	13.19	63	334824	50.11	ppb	96
51) Methyl Methacrylate	13.23	100	83131	53.09	ppb	90
52) 1,4-Dioxane	13.36	88	79584	1025.76	ppb	98
53) Dibromomethane	13.40	93	195880	51.82	ppb	94
54) Bromodichloromethane	13.62	83	371249	54.29	ppb	98
55) 2-Nitropropane	14.00	43	247854	101.78	ppb	97
56) 2-Chloroethylvinyl Ether	14.07	63	245251	50.00	ppb	99
57) cis-1,3-Dichloropropene	14.43	75	485051	53.12	ppb	98
59) 4-Methyl-2-Pentanone	14.64	43	596743	52.38	ppb	99
60) Toluene	15.10	91	988613	52.51	ppb	100
61) trans-1,3-Dichloropropene	15.42	75	436524	53.23	ppb	98
62) Ethyl Methacrylate	15.48	69	474456	53.54	ppb	99
63) 1,1,2-Trichloroethane	15.81	83	228166	51.47	ppb	97
66) Tetrachloroethene	16.17	166	273513	52.73	ppb	96
67) 2-Hexanone	16.19	43	472675	52.46	ppb	95
68) 1,3-Dichloropropane	16.15	76	476640	52.84	ppb	97
70) Dibromochloromethane	16.63	129	318428	52.89	ppb	95
71) 1,2-Dibromoethane	16.91	107	292429	51.50	ppb	96
72) Chlorobenzene	17.85	112	698357	51.76	ppb	99
73) 1,1,1,2-Tetrachloroethane	17.98	131	262223	54.18	ppb	98
74) Ethylbenzene	18.01	91	1183173	53.52	ppb	99
75) (m+p)Xylene	18.22	106	842017	103.95	ppb	99
76) o-Xylene	19.05	106	439070	52.75	ppb	92
77) Styrene	19.06	104	742702	52.95	ppb	97
78) Bromoform	19.51	173	236667	51.21	ppb	95
79) Isopropylbenzene	19.77	105	1104556	52.27	ppb	99
80) Cyclohexanone	20.04	55	1426912	1295.03	ppb	99
82) 1,1,2,2-Tetrachloroethane	20.33	83	429456	51.23	ppb	94
83) Trans-1,4-Dichloro-2-buten	20.45	53	94355	52.42	ppb	73
84) 1,2,3-Trichloropropane	20.49	110	103087	49.98	ppb	93
85) n-Propylbenzene	20.62	91	1433421	51.83	ppb	100
86) Bromobenzene	20.51	156	293573	50.47	ppb	96
87) 1,3,5-Trimethylbenzene	20.95	105	895134	51.42	ppb	100
88) 2-Chlorotoluene	20.87	91	826313	51.88	ppb	99
89) 4-Chlorotoluene	21.09	91	851106	52.50	ppb	99
90) tert-Butylbenzene	21.67	119	772644	51.19	ppb	99
91) 1,2,4-Trimethylbenzene	21.76	105	917203	52.58	ppb	99
92) sec-Butylbenzene	22.13	105	1203425	51.09	ppb	98
93) p-Isopropyltoluene	22.40	119	1024848	51.90	ppb	98
94) 1,3-Dclbenz	22.45	146	551819	51.80	ppb	98

(#) = qualifier out of range (m) = manual integration
 Q7786.D SOL1003.M Thu Oct 04 15:33:46 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7786.D

Vial: 27

Acq On : 4 Oct 2007 10:53 am

Operator: K.Ruest

Sample : CCV

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:31 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

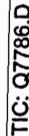
DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.63	146	553589	51.17	ppb	97
96) n-Butylbenzene	23.31	91	1025995	51.14	ppb	97
97) 1,2-Dclbenz	23.50	146	522390	51.95	ppb	99
98) 1,2-Dibromo-3-chloropropan	25.36	157	91270	48.97	ppb	96
99) Nitrobenzene	25.91	77	78724	59.29	ppb	93
100) 1,2,4-Tcbenzene	27.44	180	333438	50.47	ppb	99
101) Hexachlorobu	27.78	225	198093	51.83	ppb	95
102) Naphthalen	28.08	128	866305	48.63	ppb	99
103) 1,2,3-Tclbenzene	28.67	180	308892	51.30	ppb	95

(#) = qualifier out of range (m) = manual integration
Q7786.D SOL1003.M Thu Oct 04 15:33:47 2007

Vial: 27
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00
lts File: SOL1003.RES

OL1003.M (RTE Integrator)



VOLATILE ORGANICS

RAW QC DATA

003

1122 (14)

MSV097

10/4/07

T100307/5021003
82608 SOILS

File	OK	Comments
Q7767		
Q7768		
Q7769	YT	11:01
Q7770	N	↑ needs curve
Q7771	—	
Q7772	YT	12:53
Q7773	YB	
Q7774	Y	82608 soil curve
Q7775	Y	
Q7776	Y	
Q7777	Y	
Q7778	Y	
Q7779	Y	
Q7780	Y	↓
Q7781	—	
Q7782	YB	
Q7783	—	

dil	Pos	Sample	Run#151212/4009
	27	BLK	
	27	TANK - 1 ml (MSV0330) → 50mls	
	27	CCV (333901, 544297, 544530, 203475)	
	27	LCS	1043051
	27	BLK	
	26	MET BLK	1043050
5g	29	1016198 5.0 (100% 27-38126 82608 TCH)	
1g	30	1012221 5.0 (100% 27-40120 82608 OUPB)	
	31	BLK	
5g	32	1041312 1.0 (Para 27-40052 82608 TANK)	
	33	1041314 1.0	
	34	1041315 1.0	
	35	1041312 1.0 ms	1043052
	36	1041312 1.0 MSD	1043053
	37	BLK	
26g	38	1016198 2.0 (100% 27-38126 82608 TCH)	
5g	39	1012221 1.0 (100% 27-40120 82608 OUPB)	
	40	BLK	

File	OK	Comments
Q7784		
Q7785	YT	10:17
Q7786	YL	
Q7787	YB	
Q7788	—	2nd row 13 bit ↑
Q7789	YB	5 mls of
Q7790	Y	opt 2D
Q7791	N	opt 57R
Q7792	—	
Q7793	Y	
Q7794	Y	
Q7795	Y	
Q7796	YB	nap. ↓ (HP) or
Q7797	YB	
Q7798	—	
Q7799	Y	add
Q7800	Y	19:25 ✓
Q7801	—	

ICV

(250 ppm)
comb 15/5u carbon std (MSV0372)*

100	150	200
10ml	15ml	20ml
↓	↓	↓
5.0ml	7.5ml	10.0ml

15/5u 250 ppm (MSV0372)

1" T/G 500 ppm (MSV039A)

1" H/L (MSV040A)

1" F+ (MSV035A)

2" T/G (MSV040A)

2" H/L (MSV040A)

2" F+ 200 ppm (MSV033B)

5ml → 50mls = CCV

2ml > 50mls = LCS

5ml > 50mls = MS/MSD

KE 10/4/07

NOA7 10/3/07

T100307/50L1003
~~T100307/50L1003~~ (1)
 82608 soils

MSV007 10/4/07

if	Pos	Sampled	File	OK	Comments	dil	Pos	Sampled
	27	BLK	Q7767				27	BLK
	28	↓	Q7768					
	27	TUNE - 1ml (MSV0030) → 5mls	Q7769	YT	11:01			
	27	CCV	Q7770	N	↑ - curve			
	27	BLK (50L1003)	Q7771	—				
	27	TUNE	Q7772	YT	12:53			
	27	1BLK	Q7773	7B				
	27	1 PPB	Q7774	Y	82608 soil curve			
	28	5 PPB	Q7775	Y				
	29	20 PPB	Q7776	Y				
	30	50 PPB	Q7777	Y				
	31	100 PPB	Q7778	Y				
	32	150 PPB	Q7779	Y				
	33	200 PPB	Q7780	Y				
	34	BLK	Q7781	—				
	35	ICV - 207/6 (200ppm) / 5ml 5 H ₂ L ↓ 3 Frt (200ppm) / 12.5ml	Q7782	YB				
	36	BLK	Q7783	—				

RF 10/4/07

207/6 (200ppm) MSV0040H 5ml
 5 H₂L ↓ MSV0040H 5ml
 3 Frt (200ppm) MSV0053B 12.5ml
 5mls = 1CV

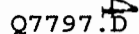
* All standards = 5ml purge + 1.0ml comb 15/5u carbon std (MSV0057L)*

[SOIL ICAL TABLE]

Conc (ppb)	1.0	5.0	20	50	100	150	200
1° T/G (500ppm)	1ml 2ml 5ml	1ml 2ml 5ml	1ml 2ml 5ml	1ml 2ml 5ml	1ml 2ml 5ml	1ml 2ml 5ml	1ml 2ml 5ml
1° H ₂ L (500ppm)	↓	↓	↓	↓	↓	↓	↓
1° Frt (500ppm)	↓	↓	↓	↓	↓	↓	↓
5.0 (500ppm)	—	1.0ml 2.5ml	3.5ml	—	5.0ml	7.5ml	10.0ml

Quant Results File: SOL1003.RES

```
Method      : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title       : 8260voa
Last Update  : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration
```



Thu Oct 04 18:06:03 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7797.D Vial: 36
 Acq On : 4 Oct 2007 5:35 pm Operator: K.Ruest
 Sample : 1041312 1.0 MSD Inst : GC/MS Ins
 Misc : PARA R27-40056 8260B.TANK Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 4 18:05 2007 Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)
 Title : 8260voa
 Last Update : Thu Oct 04 15:14:55 2007
 Response via : Initial Calibration
 DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.64	146	423643	45.23	ppb	98
96) n-Butylbenzene	23.31	91	690133	39.74	ppb	96
97) 1,2-Dclbenz	23.49	146	410284	47.14	ppb	97
98) 1,2-Dibromo-3-chloropropan	25.36	157	70206	43.51	ppb	93
99) Nitrobenzene	25.91	77	48205	41.94	ppb	92
100) 1,2,4-Tcbenzene	27.45	180	181865	31.80	ppb	97
101) Hexachlorobu	27.78	225	98493	29.77	ppb	96
102) Naphthalen	28.08	128	540585	35.06	ppb✓	99
103) 1,2,3-Tclbenzene	28.67	180	161095	30.91	ppb	91

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7797.D

Vial: 36

Acq On : 4 Oct 2007 5:35 pm

Operator: K.Ruest

Sample : 1041312 1.0 MSD

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 18:05 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.04	97	327879	52.87	ppb	98
38) Cyclohexane	11.17	56	555472	45.51	ppb	95
41) Carbontetrachloride	11.33	117	287136	52.75	ppb	96
42) 1,1-Dichloropropene	11.29	75	366469	51.25	ppb	94
43) Iso-Butyl Alcohol	11.24	43	546514	978.79	ppb	99
45) Benzene	11.69	78	1003084	52.81	ppb	98
46) 1,2-Dichloroethane	11.67	62	365601	52.85	ppb	100
47) N-Heptane	12.00	43	451664	37.30	ppb	98
48) Trichloroethene	12.77	95	251232	52.09	ppb	94
49) Methylcyclohexane	13.17	55	431977	42.35	ppb	96
50) 1,2-Diclpropane	13.18	63	374287	55.21	ppb	94
51) Methyl Methacrylate	13.22	100	86552	54.48	ppb	98
52) 1,4-Dioxane	13.35	88	76815	975.87	ppb	97
53) Dibromomethane	13.40	93	199589	52.04	ppb	97
54) Bromodichloromethane	13.62	83	377560	54.43	ppb	100
55) 2-Nitropropane	14.00	43	229106	92.73	ppb	93
56) 2-Chloroethylvinyl Ether	14.07	63	259651	52.18	ppb	96
57) cis-1,3-Dichloropropene	14.43	75	483143	52.15	ppb	100
59) 4-Methyl-2-Pentanone	14.63	43	604125	51.70	ppb	95
60) Toluene	15.10	91	1052721	54.53	ppb	99
61) trans-1,3-Dichloropropene	15.42	75	395508	47.03	ppb	98
62) Ethyl Methacrylate	15.48	69	519144	57.12	ppb	97
63) 1,1,2-Trichloroethane	15.81	83	245432	53.99	ppb	87
66) Tetrachloroethene	16.17	166	254009	47.75	ppb	97
67) 2-Hexanone	16.19	43	435297	47.11	ppb	99
68) 1,3-Dichloropropane	16.15	76	487974	52.75	ppb	94
70) Dibromochloromethane	16.63	129	319682	51.78	ppb	95
71) 1,2-Dibromoethane	16.91	107	285439	49.02	ppb	96
72) Chlorobenzene	17.85	112	673606	48.68	ppb	96
73) 1,1,1,2-Tetrachloroethane	17.97	131	264437	53.28	ppb	96
74) Ethylbenzene	18.01	91	1161315	51.22	ppb	99
75) (m+p)Xylene	18.22	106	862502	103.83	ppb	99
76) o-Xylene	19.05	106	416335	48.77	ppb	92
77) Styrene	19.07	104	678229	47.15	ppb	98
78) Bromoform	19.52	173	229761	48.48	ppb	100
79) Isopropylbenzene	19.77	105	1081235	49.89	ppb	98
80) Cyclohexanone	20.04	55	480418	448.93	ppb	98
82) 1,1,2,2-Tetrachloroethane	20.34	83	402153	55.42	ppb	99
83) Trans-1,4-Dichloro-2-buten	20.45	53	118630	76.14	ppb	92
84) 1,2,3-Trichloropropane	20.49	110	101053	56.60	ppb	98
85) n-Propylbenzene	20.63	91	1262984	52.75	ppb	99
86) Bromobenzene	20.52	156	268594	53.35	ppb	93
87) 1,3,5-Trimethylbenzene	20.95	105	812168	53.89	ppb	100
88) 2-Chlorotoluene	20.87	91	742574	53.86	ppb	98
89) 4-Chlorotoluene	21.09	91	690904	49.24	ppb	98
90) tert-Butylbenzene	21.67	119	706668	54.09	ppb	98
91) 1,2,4-Trimethylbenzene	21.76	105	800362	53.00	ppb	100
92) sec-Butylbenzene	22.13	105	1064754	52.22	ppb	100
93) p-Isopropyltoluene	22.40	119	805172	47.10	ppb	98
94) 1,3-Dclbenz	22.45	146	420223	45.57	ppb	94

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

Q7797.D SOL1003.M Thu Oct 04 18:06:01 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7797.D

Vial: 36

Acq On : 4 Oct 2007 5:35 pm

Operator: K.Ruest

Sample : 1041312 1.0 MSD 10413053

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 18:05 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	350166	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.23	114	592800	50.00	ppb	-0.03
58) d5 - Chlorobenzene	17.79	117	562517	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.58	152	228075	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4,Dibrfilmethane	10.92	113	229558	48.43	ppb	-0.02
Spiked Amount 50.000			Recovery	=	96.86%	
44) surr1,1,2-Dicethane	11.54	65	239863	49.94	ppb	-0.02
Spiked Amount 50.000			Recovery	=	99.88%	
64) surr3,Toluene-d8	14.97	98	702736	47.23	ppb	-0.02
Spiked Amount 50.000			Recovery	=	94.46%	
65) surr2,bfb	20.13	95	275394	42.93	ppb	-0.02
Spiked Amount 50.000			Recovery	=	85.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.24	85	260626	62.27	ppb	98
3) Chloromethane	4.64	50	287409	47.74	ppb	98
4) Vinyl Chloride	4.87	62	221659	51.07	ppb	99
5) Bromomethane	5.57	96	167755	47.30	ppb	93
6) Chloroethane	5.76	64	175397	47.12	ppb	97
7) Trichlorofluoromethane	6.24	101	319737	57.50	ppb	95
8) Diethyl Ether	6.71	59	240953	57.18	ppb	98
9) FREON 123A	6.68	67	351267	52.02	ppb	95
10) FREON 123	6.78	83	359810	51.96	ppb	94
11) Acrolein	6.95	56	62393	62.69	ppb	91
12) FREON 113	7.14	85	98052	55.77	ppb	89
13) 1,1-Dicethene	7.17	96	176161	52.78	ppb	93
14) Acetone	7.19	43	199302	78.22	ppb	92
15) 2-Propanol	7.33	45	609661	782.86	ppb	100
16) Iodomethane	7.49	127	179549	52.70	ppb	86
17) Carbon Disulfide	7.64	76	742254	45.66	ppb	100
18) Acetonitrile	7.68	41	236652	238.36	ppb	95
19) Allyl Chloride	7.78	41	536921	49.42	ppb	97
20) Methyl Acetate	7.75	43	419796	42.64	ppb	99
21) Methylene Chloride	7.97	84	276930	55.61	ppb	99
22) TBA	8.02	59	866470	888.86	ppb	96
23) Acrylonitrile	8.35	53	649551	226.72	ppb	99
24) Methyl-t-Butyl Ether	8.41	73	705334	55.23	ppb	98
25) trans-1,2-Dichloroethene	8.46	96	207810	45.20	ppb	89
26) 1,1-Dicethane	9.17	63	526547	52.62	ppb	97
27) Vinyl Acetate	9.15	43	267234	28.61	ppb	99
28) 2-Chloro-1,3-butadiene	9.32	53	436878	66.11	ppb	99
29) 2,2-Dichloropropane	10.16	77	345783	50.89	ppb	96
30) 2-Butanone	10.09	43	233606	43.63	ppb	97
31) cis-1,2-Dichloroethene	10.13	96	256144	49.72	ppb	99
32) Propionitrile	10.20	54	282677	234.87	ppb	98
33) Methacrylonitrile	10.48	67	134157	50.99	ppb	89
34) Bromochloromethane	10.55	128	145991	48.83	ppb	97
35) Chloroform	10.63	83	470350	53.23	ppb	93
36) Tetrahydrofuran	10.64	42	160485	47.56	ppb	97

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

Q7797.D SOL1003.M Thu Oct 04 18:06:00 2007

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07

Project Reference:

Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled :	Order #: 1043053	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 87.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 10/04/07		
ANALYTICAL DILUTION:	1.00		Dry Weight
BENZENE	5.0	61	UG/KG
N-BUTYLBENZENE	5.0	46	UG/KG
SEC-BUTYLBENZENE	5.0	59	UG/KG
TERT-BUTYLBENZENE	5.0	62	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	63	UG/KG
ETHYLBENZENE	5.0	58	UG/KG
ISOPROPYL BENZENE	5.0	57	UG/KG
P-ISOPROPYLTOLUENE	5.0	54	UG/KG
NAPHTHALENE	5.0	40	UG/KG
N-PROPYLBENZENE	5.0	61	UG/KG
TOLUENE	5.0	62	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	61	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	62	UG/KG
O-XYLENE	5.0	56	UG/KG
M+P-XYLENE	5.0	110	UG/KG

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(50 - 135 %)	86	%
TOLUENE-D8	(75 - 128 %)	94	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	97	%

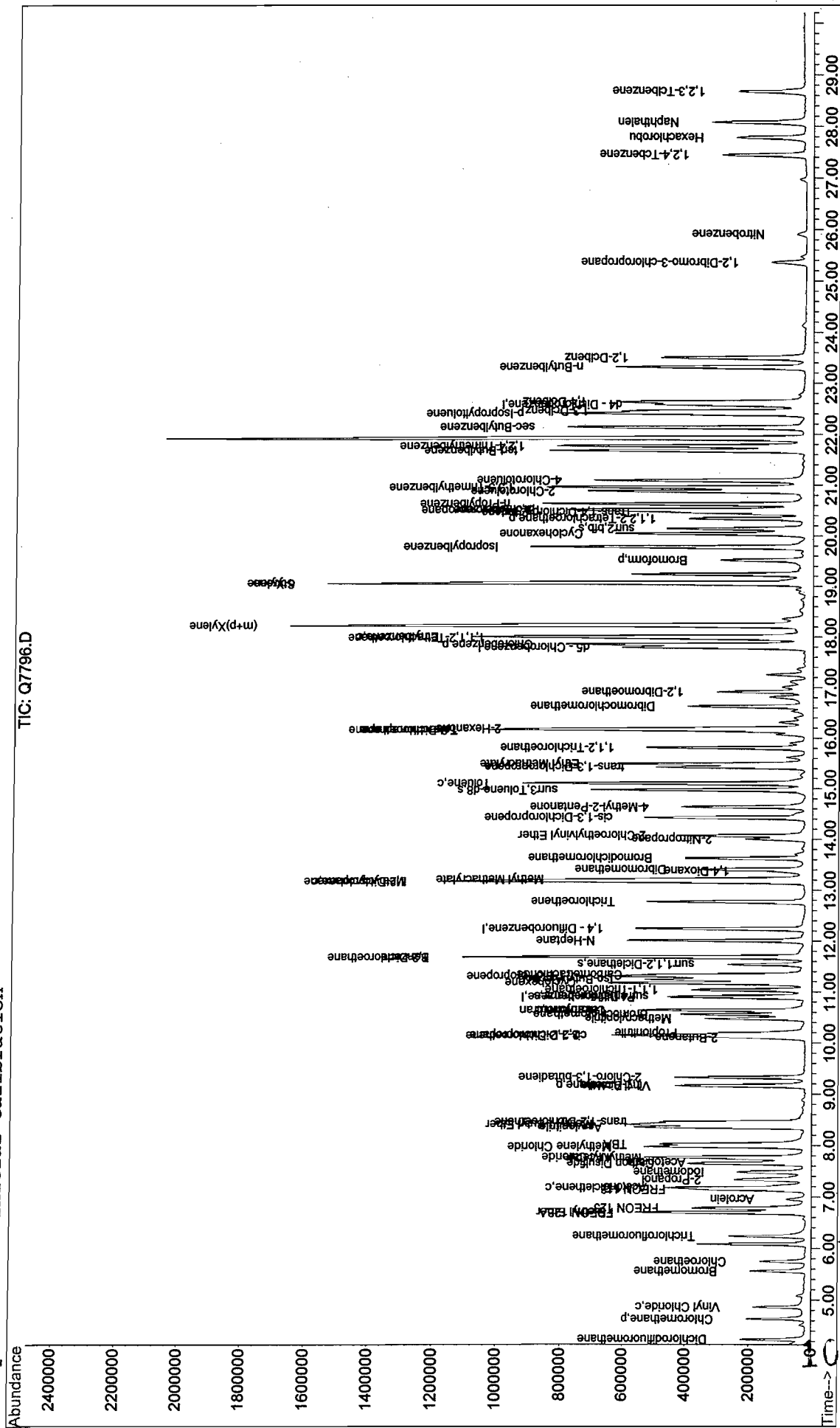
Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D

Acq On	:	4 Oct 2007	4:59 pm	Vial: 35
Sample	:	1041312	1.0 MS	Operator: K.Ruest
Misc	:	PARA R27-40056	8260B.TANK	Inst : GC/MS Ins
MS Integration Params: RTEINT.P				Multiplr: 1.00
Quant Time: Oct 4 17:28 2007				Quant Results File: SOL1003.RES

```
Method : J:\ACQUDATA\MSVOA7\METHODS
Title   : 8260voa
Last Update : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration
```

```
Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
```

Quant Results File: SOL1003.RES



Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D

Vial: 35

Acq On : 4 Oct 2007 4:59 pm

Operator: K.Ruest

Sample : 1041312 1.0 MS

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 17:28 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.63	146	425573	46.20	ppb	98
96) n-Butylbenzene	23.31	91	710398	41.59	ppb	98
97) 1,2-Dclbenz	23.49	146	409520	47.83	ppb	99
98) 1,2-Dibromo-3-chloropropan	25.37	157	72073	45.42	ppb	96
99) Nitrobenzene	25.91	77	37091	32.81	ppb	98
100) 1,2,4-Tcbenzene	27.44	180	184505	32.80	ppb	100
101) Hexachlorobu	27.79	225	97799	30.05	ppb	92
102) Naphthalen	28.08	128	526610	34.72	ppb✓	98
103) 1,2,3-Tclbenzene	28.68	180	163754	31.94	ppb	93

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D

Vial: 35

Acq On : 4 Oct 2007 4:59 pm

Operator: K.Ruest

Sample : 1041312 1.0 MS

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 17:28 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.04	97	324934	55.27	ppb	95
38) Cyclohexane	11.17	56	515338	44.53	ppb	98
41) Carbontetrachloride	11.34	117	284581	48.95	ppb	97
42) 1,1-Dichloropropene	11.30	75	358685	46.97	ppb	99
43) Iso-Butyl Alcohol	11.24	43	539139	904.12	ppb	96
45) Benzene	11.69	78	996538	49.13	ppb	99
46) 1,2-Dichloroethane	11.67	62	380241	51.47	ppb	97
47) N-Heptane	12.00	43	442509	34.22	ppb	99
48) Trichloroethene	12.77	95	255700	49.64	ppb	98
49) Methylcyclohexane	13.17	55	445295	40.88	ppb	98
50) 1,2-Dichloropropane	13.19	63	372301	51.42	ppb	97
51) Methyl Methacrylate	13.22	100	87355	51.49	ppb	95
52) 1,4-Dioxane	13.36	88	82887	985.99	ppb	98
53) Dibromomethane	13.40	93	203413	49.66	ppb	98
54) Bromodichloromethane	13.63	83	381448	51.49	ppb	96
55) 2-Nitropropane	14.00	43	252931	95.86	ppb	100
56) 2-Chloroethylvinyl Ether	14.07	63	245990	46.29	ppb	98
57) cis-1,3-Dichloropropene	14.43	75	476314	48.14	ppb	98
59) 4-Methyl-2-Pentanone	14.63	43	580250	49.96	ppb	99
60) Toluene	15.10	91	1017515	53.02	ppb	99
61) trans-1,3-Dichloropropene	15.42	75	405201	48.47	ppb	100
62) Ethyl Methacrylate	15.48	69	496195	54.93	ppb	94
63) 1,1,2-Trichloroethane	15.81	83	248045	54.89	ppb	96
66) Tetrachloroethene	16.17	166	258410	48.87	ppb	95
67) 2-Hexanone	16.19	43	421065	45.84	ppb	98
68) 1,3-Dichloropropane	16.15	76	492268	53.54	ppb	96
70) Dibromochloromethane	16.63	129	328813	53.58	ppb	95
71) 1,2-Dibromoethane	16.91	107	292170	50.47	ppb	97
72) Chlorobenzene	17.86	112	676907	49.21	ppb	99
73) 1,1,1,2-Tetrachloroethane	17.98	131	258986	52.49	ppb	96
74) Ethylbenzene	18.00	91	1122640	49.81	ppb	97
75) (m+p)Xylene	18.22	106	854086	103.44	ppb	99
76) o-Xylene	19.05	106	424262	50.00	ppb	97
77) Styrene	19.06	104	664172	46.45	ppb	94
78) Bromoform	19.51	173	234790	49.84	ppb	99
79) Isopropylbenzene	19.78	105	1079308	50.10	ppb	99
80) Cyclohexanone	20.03	55	559390	519.81	ppb	95
82) 1,1,2,2-Tetrachloroethane	20.34	83	411538	57.66	ppb	97
83) Trans-1,4-Dichloro-2-buten	20.45	53	123039	80.29	ppb	99
84) 1,2,3-Trichloropropane	20.49	110	104214	59.35	ppb	99
85) n-Propylbenzene	20.63	91	1252514	53.19	ppb	99
86) Bromobenzene	20.52	156	271733	54.87	ppb	97
87) 1,3,5-Trimethylbenzene	20.95	105	814062	54.92	ppb	95
88) 2-Chlorotoluene	20.87	91	724121	53.40	ppb	99
89) 4-Chlorotoluene	21.09	91	738146	53.48	ppb	98
90) tert-Butylbenzene	21.67	119	696100	54.17	ppb	98
91) 1,2,4-Trimethylbenzene	21.76	105	807300	54.35	ppb	100
92) sec-Butylbenzene	22.13	105	1052095	52.46	ppb	100
93) p-Isopropyltoluene	22.40	119	847895	50.43	ppb	97
94) 1,3-Dichlorobenz	22.45	146	433213	47.76	ppb	97

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

Q7796.D SOL1003.M Thu Oct 04 17:29:30 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D

Vial: 35

Acq On : 4 Oct 2007 4:59 pm

Operator: K.Ruest

Sample : 1041312 1.0 MS 1043052

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 17:28 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

KLP 10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	331973	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.24	114	633098	50.00	ppb	-0.02
58) d5 - Chlorobenzene	17.79	117	559149	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.58	152	224328	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4, Dibrflmethane	10.92	113	235012	46.43	ppb	-0.02
Spiked Amount	50.000		Recovery	=	92.86%	
44) surr1, 1,2-Dicethane	11.54	65	231647	45.16	ppb	-0.02
Spiked Amount	50.000		Recovery	=	90.32%	
64) surr3, Toluene-d8	14.97	98	713157	48.22	ppb	-0.02
Spiked Amount	50.000		Recovery	=	96.44%	
65) surr2, bfb	20.13	95	281632	44.17	ppb	-0.02
Spiked Amount	50.000		Recovery	=	88.34%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.24	85	245514	61.87	ppb	# 95
3) Chloromethane	4.63	50	304223	53.31	ppb	99
4) Vinyl Chloride	4.87	62	225308	54.75	ppb	94
5) Bromomethane	5.56	96	173404	51.57	ppb	97
6) Chloroethane	5.74	64	186685	52.90	ppb	96
7) Trichlorofluoromethane	6.24	101	322815	61.24	ppb	98
8) Diethyl Ether	6.71	59	236445	59.19	ppb	99
9) FREON 123A	6.68	67	343374	53.64	ppb	96
10) FREON 123	6.78	83	359244	54.73	ppb	96
11) Acrolein	6.96	56	81347	86.21	ppb	91
12) FREON 113	7.13	85	96329	57.79	ppb	90
13) 1,1-Dicethene	7.17	96	172588	54.54	ppb	100
14) Acetone	7.19	43	165667	68.58	ppb	99
15) 2-Propanol	7.33	45	632359	856.51	ppb	99
16) Iodomethane	7.49	127	171890	53.22	ppb	84
17) Carbon Disulfide	7.65	76	703776	45.67	ppb	99
18) Acetonitrile	7.68	41	245236	260.54	ppb	95
19) Allyl Chloride	7.78	41	540566	52.48	ppb	100
20) Methyl Acetate	7.75	43	430177	46.08	ppb	99
21) Methylene Chloride	7.97	84	274603	58.16	ppb	95
22) TBA	8.03	59	935244	1011.99	ppb	94
23) Acrylonitrile	8.35	53	678331	249.74	ppb	100
24) Methyl-t-Butyl Ether	8.41	73	715987	59.14	ppb	99
25) trans-1,2-Dichloroethene	8.46	96	212238	48.69	ppb	99
26) 1,1-Dicethane	9.16	63	527062	55.55	ppb	95
27) Vinyl Acetate	9.14	43	301514	34.05	ppb	98
28) 2-Chloro-1,3-butadiene	9.32	53	390846	62.38	ppb	99
29) 2,2-Dichloropropane	10.16	77	325862	50.59	ppb	98
30) 2-Butanone	10.09	43	243500	47.97	ppb	99
31) cis-1,2-Dichloroethene	10.13	96	251788	51.55	ppb	98
32) Propionitrile	10.20	54	273481	239.68	ppb	98
33) Methacrylonitrile	10.48	67	132494	53.12	ppb	87
34) Bromochloromethane	10.55	128	152170	53.68	ppb	98
35) Chloroform	10.64	83	462449	55.20	ppb	99
36) Tetrahydrofuran	10.63	42	160261	50.09	ppb	99

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

Q7796.D SOL1003.M Thu Oct 04 17:29:29 2007

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : Order #: 1043052 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 87.4

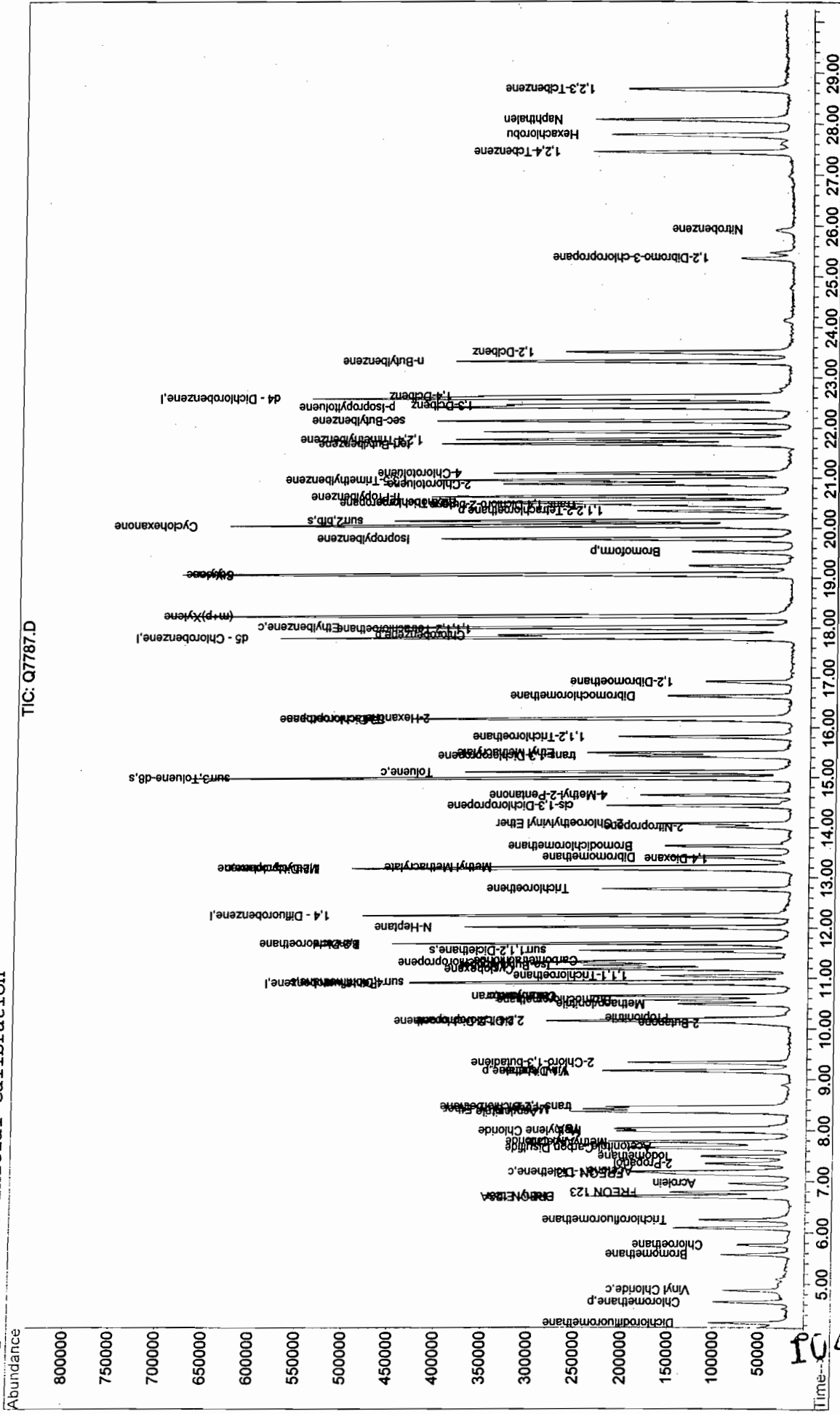
ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/07			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	5.0	56	UG/KG
N-BUTYLBENZENE	5.0	48	UG/KG
SEC-BUTYLBENZENE	5.0	59	UG/KG
TERT-BUTYLBENZENE	5.0	62	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	68	UG/KG
ETHYLBENZENE	5.0	57	UG/KG
ISOPROPYL BENZENE	5.0	57	UG/KG
P-ISOPROPYLTOLUENE	5.0	57	UG/KG
NAPHTHALENE	5.0	40	UG/KG
N-PROPYLBENZENE	5.0	61	UG/KG
TOLUENE	5.0	61	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	62	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	63	UG/KG
O-XYLENE	5.0	57	UG/KG
M+P-XYLENE	5.0	110	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	88	%
TOLUENE-D8	(75 - 128 %)	96	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	93	%

Vial: 27
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

```
Method : J:\ACQUDATA\MSVOA7\METHODS
Title   : 8260voa
Last Update : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration
```



Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7787.D

Vial: 27

Acq On : 4 Oct 2007 11:29 am

Operator: K.Ruest

Sample : LCS

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:33 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.63	146	228126	21.18	ppb	95
96) n-Butylbenzene	23.31	91	429799	21.52	ppb	97
97) 1,2-Dclbenz	23.50	146	222173	22.20	ppb	95
98) 1,2-Dibromo-3-chloropropan	25.36	157	36871	19.87	ppb	96
99) Nitrobenzene	25.91	77	28065	21.24	ppb	91
100) 1,2,4-Tcbenzene	27.44	180	146061	22.21	ppb	100
101) Hexachlorobu	27.79	225	85772	22.55	ppb	99
102) Naphthalen	28.07	128	388302	21.90	ppb	99
103) 1,2,3-Tclbenzene	28.67	180	127175	21.22	ppb	98

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7787.D

Vial: 27

Acq On : 4 Oct 2007 11:29 am

Operator: K.Ruest

Sample : LCS

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:33 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.03	97	125194	20.74	ppb	94
38) Cyclohexane	11.16	56	222374	18.72	ppb	95
41) Carbontetrachloride	11.34	117	114986	21.84	ppb	92
42) 1,1-Dichloropropene	11.30	75	156642	22.65	ppb	97
43) Iso-Butyl Alcohol	11.24	43	245245	454.08	ppb	93
45) Benzene	11.68	78	409928	22.31	ppb	99
46) 1,2-Dichloroethane	11.67	62	146289	21.86	ppb	95
47) N-Heptane	12.01	43	286584	24.47	ppb	99
48) Trichloroethene	12.77	95	102904	22.06	ppb	92
49) Methylcyclohexane	13.16	55	193008	19.56	ppb	97
50) 1,2-Dichloropropane	13.17	63	138784	21.16	ppb	97
51) Methyl Methacrylate	13.21	100	34089	22.18	ppb	87
52) 1,4-Dioxane	13.36	88	33519	440.23	ppb	96
53) Dibromomethane	13.40	93	80205	21.62	ppb	93
54) Bromodichloromethane	13.62	83	144850	21.59	ppb	97
55) 2-Nitropropane	14.00	43	102014	42.69	ppb	98
56) 2-Chloroethylvinyl Ether	14.07	63	98017	20.36	ppb	96
57) cis-1,3-Dichloropropene	14.42	75	185105	20.66	ppb	97
59) 4-Methyl-2-Pentanone	14.63	43	239915	21.17	ppb	97
60) Toluene	15.10	91	408650	21.83	ppb	95
61) trans-1,3-Dichloropropene	15.42	75	171160	20.99	ppb	95
62) Ethyl Methacrylate	15.48	69	184747	20.96	ppb	97
63) 1,1,2-Trichloroethane	15.80	83	97151	22.04	ppb	98
66) Tetrachloroethene	16.17	166	113555	22.01	ppb	95
67) 2-Hexanone	16.19	43	186219	20.78	ppb	96
68) 1,3-Dichloropropane	16.15	76	189530	21.13	ppb	95
70) Dibromochloromethane	16.62	129	131958	22.04	ppb	95
71) 1,2-Dibromoethane	16.91	107	118658	21.01	ppb	95
72) Chlorobenzene	17.85	112	286491	21.35	ppb	96
73) 1,1,1,2-Tetrachloroethane	17.96	131	104855	21.78	ppb	98
74) Ethylbenzene	18.00	91	503745	22.91	ppb	98
75) (m+p)Xylene	18.23	106	361272	44.85	ppb	95
76) o-Xylene	19.06	106	183726	22.20	ppb	91
77) Styrene	19.07	104	300527	21.55	ppb	97
78) Bromoform	19.52	173	97518	21.22	ppb	96
79) Isopropylbenzene	19.77	105	478681	22.78	ppb	98
80) Cyclohexanone	20.03	55	558576	531.23	ppb	100
82) 1,1,2,2-Tetrachloroethane	20.34	83	178477	21.39	ppb	96
83) Trans-1,4-Dichloro-2-buten	20.44	53	51985	29.02	ppb✓	95
84) 1,2,3-Trichloropropane	20.48	110	46271	22.54	ppb	94
85) n-Propylbenzene	20.61	91	596472	21.67	ppb	97
86) Bromobenzene	20.51	156	126133	21.79	ppb	96
87) 1,3,5-Trimethylbenzene	20.95	105	376008	21.70	ppb	97
88) 2-Chlorotoluene	20.88	91	337518	21.29	ppb	98
89) 4-Chlorotoluene	21.09	91	361836	22.43	ppb	96
90) tert-Butylbenzene	21.67	119	341041	22.70	ppb	99
91) 1,2,4-Trimethylbenzene	21.76	105	379591	21.86	ppb	99
92) sec-Butylbenzene	22.13	105	561972	23.97	ppb	96
93) p-Isopropyltoluene	22.40	119	438789	22.33	ppb	100
94) 1,3-Diclbz	22.45	146	236306	22.29	ppb	97

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

Q7787.D SOL1003.M

Thu Oct 04 15:35:26 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7787.D

Vial: 27

Acq On : 4 Oct 2007 11:29 am

Operator: K.Ruest

Sample : LCS 1043051

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:33 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

LR 10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	340804	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.24	114	573413	50.00	ppb	-0.02
58) d5 - Chlorobenzene	17.78	117	545477	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.57	152	262245	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4, Dibrflmethane	10.91	113	216888	47.31	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.62%	
44) surr1, 1,2-Dicethane	11.54	65	218349	47.00	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.00%	
64) surr3, Toluene-d8	14.97	98	681443	47.23	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.46%	
65) surr2, bfb	20.13	95	287926	46.28	ppb	-0.02
Spiked Amount	50.000		Recovery	=	92.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.23	85	99736	24.48	ppb	100
3) Chloromethane	4.64	50	126289	21.56	ppb	93
4) Vinyl Chloride	4.87	62	92575	21.91	ppb	93
5) Bromomethane	5.56	96	69025	20.00	ppb	96
6) Chloroethane	5.75	64	73072	20.17	ppb	94
7) Trichlorofluoromethane	6.24	101	126541	23.38	ppb	100
8) Diethyl Ether	6.71	59	89708	21.87	ppb	89
9) FREON 123A	6.69	67	137742	20.96	ppb	96
10) FREON 123	6.79	83	136461	20.25	ppb	96
11) Acrolein	6.95	56	97339	100.49	ppb	97
12) FREON 113	7.14	85	39509	23.09	ppb	93
13) 1,1-Dicethene	7.18	96	72435	22.30	ppb	93
14) Acetone	7.20	43	53678	21.65	ppb	# 82
15) 2-Propanol	7.34	45	261049	344.42	ppb	99
16) Iodomethane	7.49	127	75138	22.66	ppb	84
17) Carbon Disulfide	7.64	76	329416	20.82	ppb	98
18) Acetonitrile	7.67	41	97648	101.05	ppb	94
19) Allyl Chloride	7.77	41	203297	19.23	ppb	97
20) Methyl Acetate	7.74	43	167926	17.52	ppb	100
21) Methylene Chloride	7.98	84	100760	20.79	ppb	97
22) TBA	8.02	59	391628	412.78	ppb	95
23) Acrylonitrile	8.35	53	287293	103.03	ppb	99
24) Methyl-t-Butyl Ether	8.40	73	265941	21.40	ppb	99
25) trans-1,2-Dichloroethene	8.45	96	88617	19.80	ppb	93
26) 1,1-Dicethane	9.16	63	209772	21.54	ppb	93
27) Vinyl Acetate	9.15	43	204480	22.49	ppb	100
28) 2-Chloro-1,3-butadiene	9.32	53	170016	26.43	ppb * NT	97
29) 2,2-Dichloropropane	10.16	77	135694	20.52	ppb	99
30) 2-Butanone	10.09	43	99958	19.18	ppb	# 90
31) cis-1,2-Dichloroethene	10.14	96	102968	20.54	ppb	95
32) Propionitrile	10.21	54	116163	99.17	ppb	91
33) Methacrylonitrile	10.47	67	56583	22.10	ppb	86
34) Bromochloromethane	10.55	128	57032	19.60	ppb	97
35) Chloroform	10.64	83	183980	21.39	ppb	98
36) Tetrahydrofuran	10.63	42	70170	21.36	ppb	99

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

Q7787.D SOL1003.M Thu Oct 04 15:35:25 2007

101

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07

Project Reference:

Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :	Order #: 1043051	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

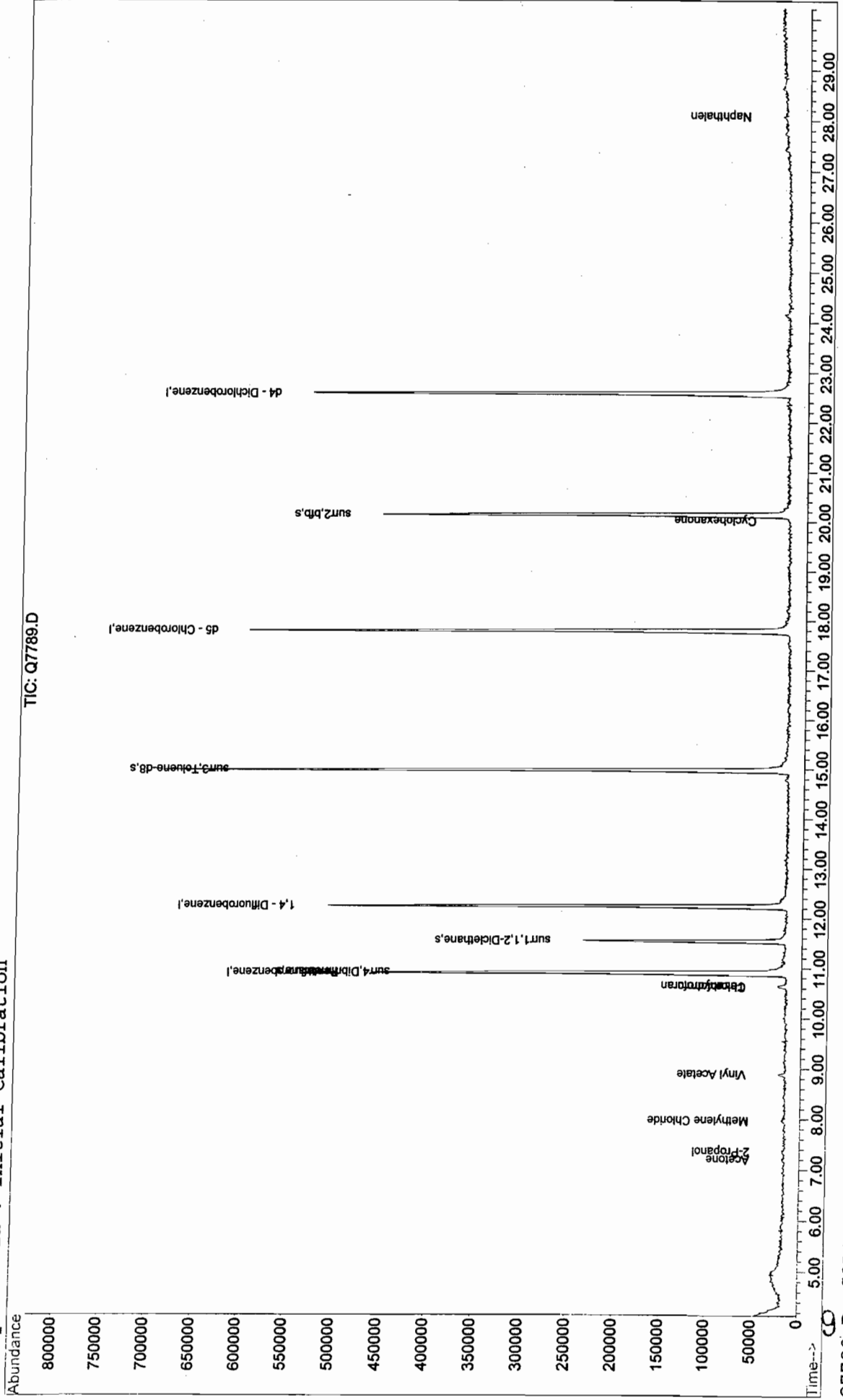
ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/07			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	5.0	22	UG/KG
N-BUTYLBENZENE	5.0	22	UG/KG
SEC-BUTYLBENZENE	5.0	24	UG/KG
TERT-BUTYLBENZENE	5.0	23	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	21	UG/KG
ETHYLBENZENE	5.0	23	UG/KG
ISOPROPYL BENZENE	5.0	23	UG/KG
P-ISOPROPYLTOLUENE	5.0	22	UG/KG
NAPHTHALENE	5.0	22	UG/KG
N-PROPYLBENZENE	5.0	22	UG/KG
TOLUENE	5.0	22	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	22	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	22	UG/KG
O-XYLENE	5.0	22	UG/KG
M+P-XYLENE	5.0	45	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	93	%
TOLUENE-D8	(75 - 128 %)	94	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	95	%

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D
Acq On : 4 Oct 2007 12:42 pm
Sample : MET BLK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 4 15:35 2007

Vial: 28
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: SOL1003.RES

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title : 8260voa
Last Update : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration



Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D

Vial: 28

Acq On : 4 Oct 2007 12:42 pm

Operator: K.Ruest

Sample : MET BLK

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:39 2007

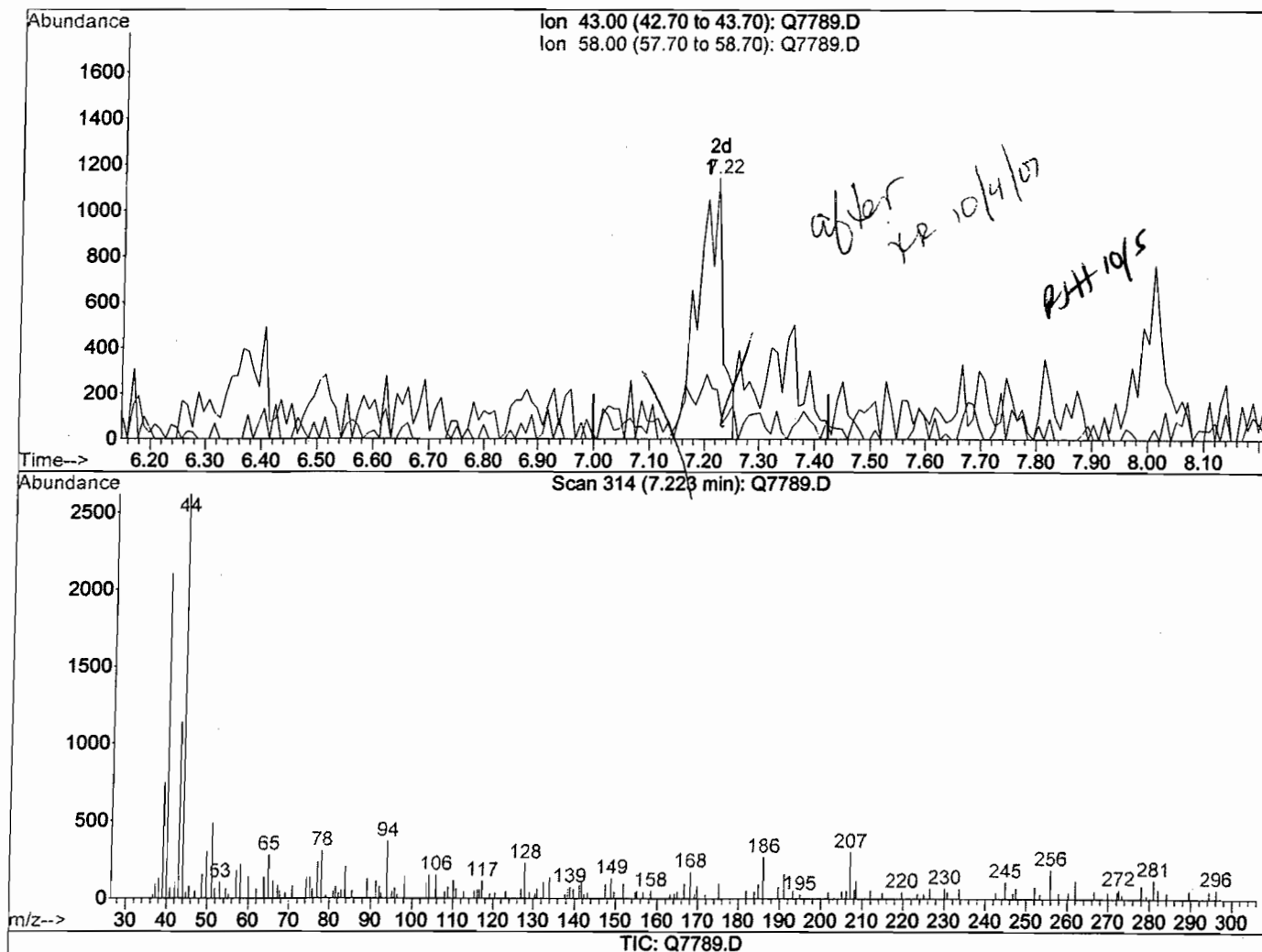
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260vov

Last Update : Thu Oct 04 15:14:55 2007

Response via : Single Level Calibration



(14) Acetone

7.22min 1.41ppb m

response 3575

Ion	Exp%	Act%
43.00	100	100
58.00	26.90	19.09#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D

Vial: 28

Acq On : 4 Oct 2007 12:42 pm

Operator: K.Ruest

Sample : MET BLK

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:35 2007

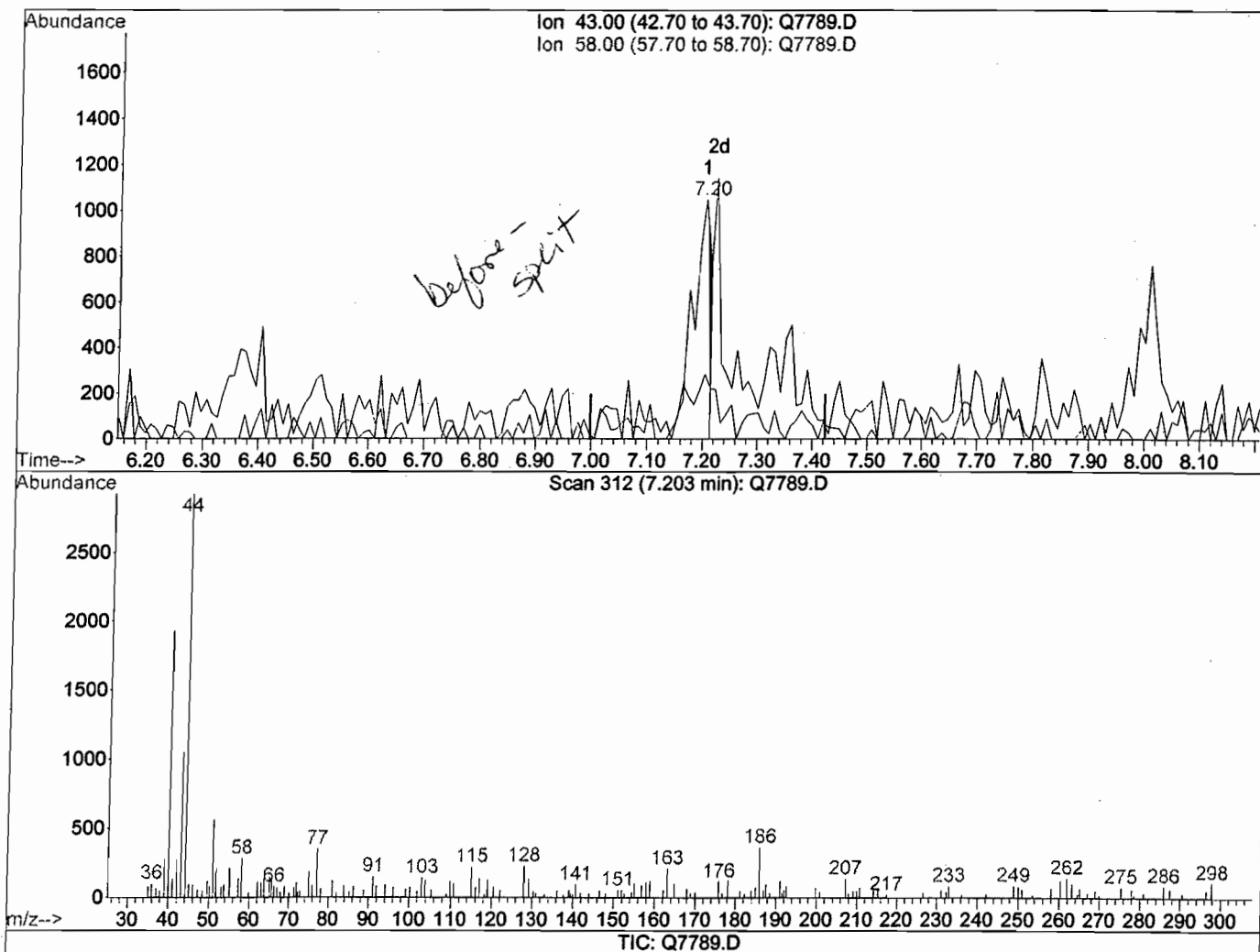
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Single Level Calibration



(14) Acetone

7.20min 0.95ppb

response 2402

Ion	Exp%	Act%
43.00	100	100
58.00	26.90	27.10
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D

Vial: 28

Acq On : 4 Oct 2007 12:42 pm

Operator: K.Ruest

Sample : MET BLK

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:35 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	347384	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.24	114	609665	50.00	ppb	-0.02
58) d5 - Chlorobenzene	17.79	117	569076	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.58	152	274847	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4, Dibrflmethane	10.92	113	226724	46.51	ppb	-0.02
Spiked Amount	50.000		Recovery	=	93.02%	
44) surr1, 1,2-Dicethane	11.54	65	221249	44.79	ppb	-0.02
Spiked Amount	50.000		Recovery	=	89.58%	
64) surr3, Toluene-d8	14.97	98	710338	47.19	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.38%	
65) surr2, bfb	20.13	95	297241	45.80	ppb	-0.02
Spiked Amount	50.000		Recovery	=	91.60%	

Target Compounds

							Qvalue	
14) Acetone	7.22	7.20	43	2402	1.41	0.95	ppb	100 <
15) 2-Propanol		7.36	45	2500		3.24	ppb	# 16
21) Methylene Chloride		7.98	84	1673		0.34	ppb	# 50 <
27) Vinyl Acetate		8.89	43	4736		0.51	ppb	# 92
35) Chloroform		10.62	83	2995		0.34	ppb	# 56 <
36) Tetrahydrofuran		10.64	42	11456		3.42	ppb	# 91 NT
80) Cyclohexanone		20.02	55	524		35.81	ppb	# 98
102) Naphthalen		28.09	128	7119		0.38	ppb	# 90 <

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

Q7789.D SOL1003.M Thu Oct 04 15:35:46 2007

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1043050 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/07			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	5.0	5.0 U	UG/KG
N-BUTYLBENZENE	5.0	5.0 U	UG/KG
SEC-BUTYLBENZENE	5.0	5.0 U	UG/KG
TERT-BUTYLBENZENE	5.0	5.0 U	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
ISOPROPYL BENZENE	5.0	5.0 U	UG/KG
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/KG
NAPHTHALENE	5.0	5.0 U	UG/KG
N-PROPYLBENZENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	92	%
TOLUENE-D8	(75 - 128 %)	94	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	93	%

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7785.D

Vial: 27

Acq On : 4 Oct 2007 10:17 am

Operator: K.Ruest

Sample : TUNE

Inst : GC/MS Ins

Misc :

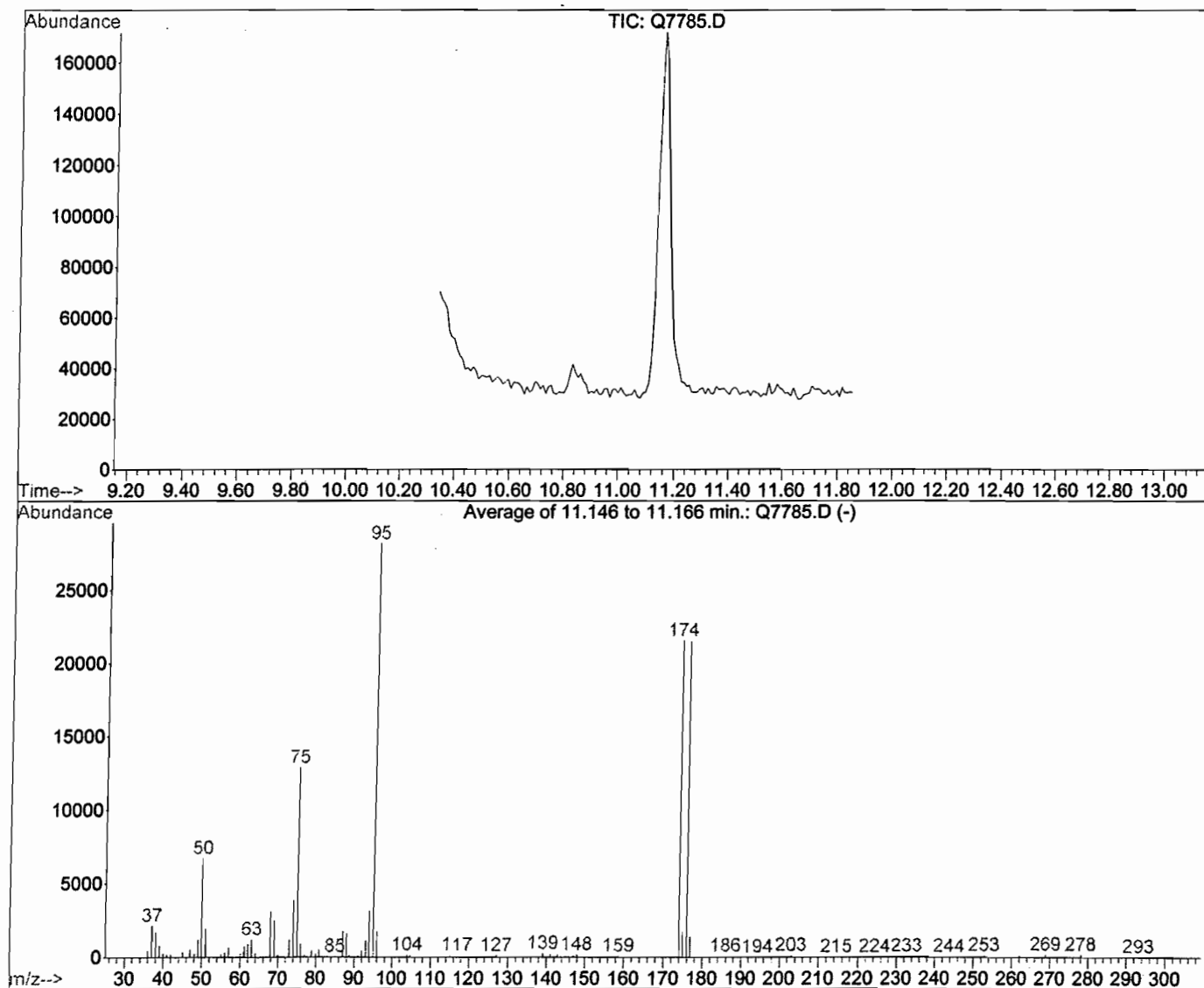
Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

KR 10/4/07



AutoFind: Scans 83, 84, 85; Background Corrected with Scan 71

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	6723	PASS
75	95	30	60	45.6	12880	PASS
95	95	100	100	100.0	28216	PASS
96	95	5	9	6.1	1729	PASS
173	174	0.00	2	0.3	62	PASS
174	95	50	120	76.4	21557	PASS
175	174	5	9	7.9	1712	PASS
176	174	95	101	99.8	21509	PASS
177	176	5	9	6.4	1372	PASS

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7772.D

Vial: 27

Acq On : 3 Oct 2007 12:53 pm

Operator: K.Ruest

Sample : TUNE

Inst : GC/MS Ins

Misc :

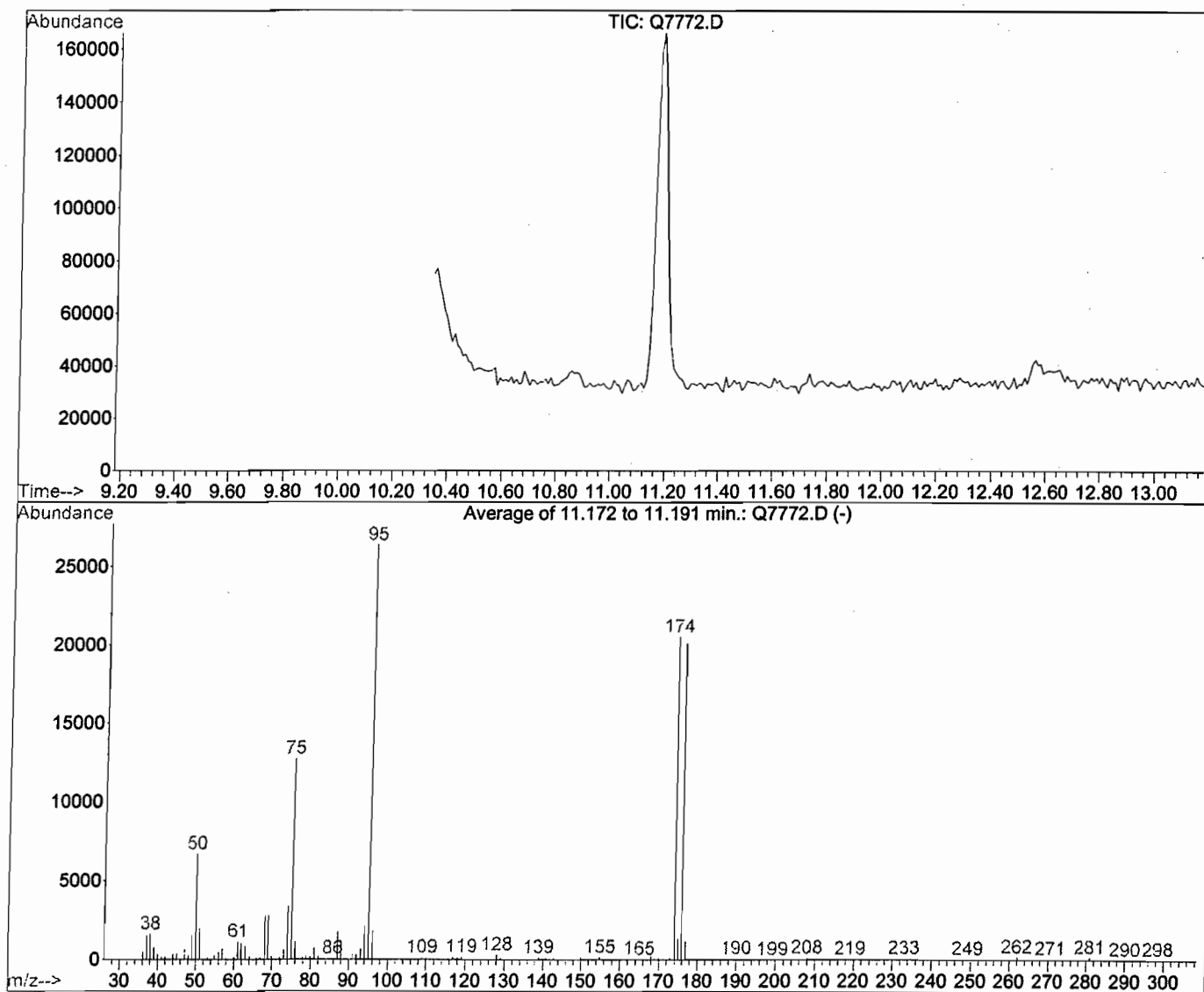
Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL0822.M (RTE Integrator)

Title : 8260voa

KR 10/3/07



AutoFind: Scans 85, 86, 87; Background Corrected with Scan 73

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	6711	PASS
75	95	30	60	48.2	12732	PASS
95	95	100	100	100.0	26423	PASS
96	95	5	9	6.7	1772	PASS
173	174	0.00	2	0.5	106	PASS
174	95	50	120	77.7	20541	PASS
175	174	5	9	6.4	1309	PASS
176	174	95	101	97.7	20077	PASS
177	176	5	9	5.7	1141	PASS

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 10/15/07

Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Client Sample ID : BC GRAB

Date Sampled : 09/28/07 12:05	Order #: 1041312	Sample Matrix: SOIL/SEDIMENT
Date Received: 09/28/07	Submission #: R2740056	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	87.4	%	10/08/07	10:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/15/07

Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Client Sample ID : BC COMP E

Date Sampled : 09/28/07 12:20	Order #: 1041314	Sample Matrix: SOIL/SEDIMENT
Date Received: 09/28/07	Submission #: R2740056	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	85.2	%	10/08/07	10:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/15/07

Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Client Sample ID : BC COMP W

Date Sampled : 09/28/07 12:35
Date Received: 09/28/07

Order #: 1041315
Submission #: R2740056

Sample Matrix: SOIL/SEDIMENT

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	89.7	%	10/08/07	10:00	1.0

#: 151234

lyte: PERCENT SOL. 160.3M PERCENT SOLIDS

nted: 10/09/07 09:21

R40056
R40123
R40154
3 copies

E	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
IS		1043863	SOIL/SEDIME	1.00	1.0	1.00			10/08/2007		
IP	R2740056	1041312	SOIL/SEDIME	87.4	1.0	1.00			10/08/2007	RUN	ASPB
IP	R2740056	1041314	SOIL/SEDIME	85.2	1.0	1.00			10/08/2007	RUN	ASPB
IP	R2740056	1041315	SOIL/SEDIME	89.7	1.0	1.00			10/08/2007	RUN	ASPB
IP	R2740123	1042364	SOIL/SEDIME	90.7	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042373	SOIL/SEDIME	88.4	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042383	SOIL/SEDIME	84.0	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042389	SOIL/SEDIME	77.7	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042390	SOIL/SEDIME	77.6	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042391	SOIL/SEDIME	75.8	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042392	SOIL/SEDIME	74.4	1.0	1.00			10/08/2007	RUN	ASPA
JP		1043864	SOIL/SEDIME	74.9	1.0	1.00		0.71	10/08/2007		
IP	R2740123	1042393	SOIL/SEDIME	80.9	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042394	SOIL/SEDIME	73.4	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042396	SOIL/SEDIME	83.0	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042400	SOIL/SEDIME	78.5	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042401	SOIL/SEDIME	74.2	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042402	SOIL/SEDIME	79.9	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042403	SOIL/SEDIME	50.1	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042404	SOIL/SEDIME	82.1	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042405	SOIL/SEDIME	90.8	1.0	1.00			10/08/2007	RUN	ASPA
UP		1043865	SOIL/SEDIME	91.6	1.0	1.00		0.93	10/08/2007		
MP	R2740123	1042406	SOIL/SEDIME	77.6	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042407	SOIL/SEDIME	79.2	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042409	SOIL/SEDIME	86.2	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042410	SOIL/SEDIME	88.8	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042411	SOIL/SEDIME	85.6	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042412	SOIL/SEDIME	81.7	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042413	SOIL/SEDIME	80.8	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740154	1043024	SOIL/SEDIME	91.4	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043027	SOIL/SEDIME	80.3	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043028	SOIL/SEDIME	85.4	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043029	SOIL/SEDIME	85.1	1.0	1.00			10/08/2007		ASP-A
UP		1043866	SOIL/SEDIME	86.3	1.0	1.00		1.44	10/08/2007		
MP	R2740154	1043030	SOIL/SEDIME	80.5	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043031	SOIL/SEDIME	88.2	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043032	SOIL/SEDIME	91.0	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043033	SOIL/SEDIME	88.6	1.0	1.00			10/08/2007	QC	ASP-A
UP		1043867	SOIL/SEDIME	88.7	1.0	1.00		0.13	10/08/2007		
MP	R2740154	1043034	SOIL/SEDIME	90.4	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043035	SOIL/SEDIME	89.5	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043036	SOIL/SEDIME	86.6	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043038	SOIL/SEDIME	88.3	1.0	1.00			10/08/2007		ASP-A

records printed: 43

Reviewed & Approved
By: 
Date: 10/9/07

121

SOLIDS REPORT

#: 151234 ANALYSIS DATE: 10/08/2007 ASSIGNED TO :

PLATE: DWPS

IST :

#	ORDER #	SUBMISSION	CONTROL		GROSS (g)	TARE (g)	DIFF (g)	% SOLID	DISH ID	LS	LS
			TYPE							JOB#	LOC#
1	1043863	R27 0	MBLK		(1.3000-1.3000)=0.0000			DRY*100 = 1.00	1		
					(1.3000-1.3000)=0.0000			WET	✓		
2	1041312	R2740056	ESMP		(11.2900-1.3300)=9.9600			DRY*100 = 87.40	2		
					(12.7200-1.3300)=11.3900			WET	✓		
3	1041314	R2740056	ESMP		(11.3800-1.3200)=10.0600			DRY*100 = 85.20	3		
					(13.1300-1.3200)=11.8100			WET	✓		
4	1041315	R2740056	ESMP		(11.3100-1.2900)=10.0200			DRY*100 = 89.70	4		
					(12.4600-1.2900)=11.1700			WET	✓		
5	1042364	R2740123	ESMP		(10.9900-1.3100)=9.6800			DRY*100 = 90.70	5		
					(11.9800-1.3100)=10.6700			WET	✓		
6	1042373	R2740123	ESMP		(11.6000-1.2900)=10.3100			DRY*100 = 88.40	6		
					(12.9500-1.2900)=11.6600			WET	✓		
7	1042383	R2740123	ESMP		(10.2900-1.2800)=9.0100			DRY*100 = 84.00	7		
					(12.0000-1.2800)=10.7200			WET	✓		
8	1042389	R2740123	ESMP		(11.6000-1.2900)=10.3100			DRY*100 = 77.70	8		
					(14.5600-1.2900)=13.2700			WET	✓		
9	1042390	R2740123	ESMP		(9.5500-1.2900)=8.2600			DRY*100 = 77.60	9		
					(11.9400-1.2900)=10.6500			WET	✓		
10	1042391	R2740123	ESMP		(10.9600-1.3100)=9.6500			DRY*100 = 75.80	10		
					(14.0400-1.3100)=12.7300			WET	✓		
1	1042392	R2740123	ESMP		(9.5800-1.3200)=8.2600			DRY*100 = 74.40	11		
					(12.4200-1.3200)=11.1000			WET	✓		
2	1043864	R27 0	DUPE		(9.1100-1.2800)=7.8300			DRY*100 = 74.90	12		
					(11.7300-1.2800)=10.4500			WET	✓		
13	1042393	R2740123	ESMP		(12.1400-1.2800)=10.8600			DRY*100 = 80.90	14		
					(14.7100-1.2800)=13.4300			WET	✓		
4	1042394	R2740123	ESMP		(9.5800-1.3100)=8.2700			DRY*100 = 73.40	15		
					(12.5800-1.3100)=11.2700			WET	✓		
15	1042396	R2740123	ESMP		(10.4400-1.2800)=9.1600			DRY*100 = 83.00	16		
					(12.3200-1.2800)=11.0400			WET	✓		
6	1042400	R2740123	ESMP		(10.6500-1.2800)=9.3700			DRY*100 = 78.50	17		
					(13.2200-1.2800)=11.9400			WET	✓		
7	1042401	R2740123	ESMP		(9.5900-1.2900)=8.3000			DRY*100 = 74.20	18		
					(12.4700-1.2900)=11.1800			WET	✓		
18	1042402	R2740123	ESMP		(10.4900-1.2700)=9.2200			DRY*100 = 79.90	19		
					(12.8100-1.2700)=11.5400			WET	✓		
9	1042403	R2740123	ESMP		(6.5500-1.2900)=5.2600			DRY*100 = 50.10	20		
					(11.7800-1.2900)=10.4900			WET	✓		
20	1042404	R2740123	ESMP		(10.5600-1.3000)=9.2600			DRY*100 = 82.10	21		
					(12.5800-1.3000)=11.2800			WET	✓		
1	1042405	R2740123	ESMP		(11.6700-1.2700)=10.4000			DRY*100 = 90.80	22		
					(12.7300-1.2700)=11.4600			WET	✓		
2	1043865	R27 0	DUPE		(11.6200-1.3000)=10.3200			DRY*100 = 91.60	24		
					(12.5600-1.3000)=11.2600			WET	✓		
23	1042406	R2740123	ESMP		(9.8900-1.2800)=8.6100			DRY*100 = 77.60	23		
					(12.3800-1.2800)=11.1000			WET	✓		
4	1042407	R2740123	ESMP		(10.1200-1.3100)=8.8100			DRY*100 = 79.20	26		
					(12.4300-1.3100)=11.1200			WET	✓		
25	1042409	R2740123	ESMP		(10.2300-1.2700)=8.9600			DRY*100 = 86.20	27		
					(11.6600-1.2700)=10.3900			WET	✓		

SOLIDS REPORT

N #: 151234 ANALYSIS DATE: 10/08/2007 ASSIGNED TO :

WPLATE: DWPS

ST :

P#	ORDER #	SUBMISSION	CONTROL			% SOLID	DISH ID	LS JOB#	LS LOC#
			TYPE	GROSS(g)	TARE(g)				
26	1042410	R2740123	ESMP	(11.8800-1.2900)=10.5900		DRY*100 = 88.80	28 ✓		
				(13.2200-1.2900)=11.9300		WET			
27	1042411	R2740123	ESMP	(11.5300-1.2800)=10.2500		DRY*100 = 85.60	29 ✓		
				(13.2600-1.2800)=11.9800		WET			
28	1042412	R2740123	ESMP	(10.7400-1.3000)=9.4400		DRY*100 = 81.70	30 ✓		
				(12.8600-1.3000)=11.5600		WET			
29	1042413	R2740123	ESMP	(10.2400-1.2900)=8.9500		DRY*100 = 80.80	31 ✓		
				(12.3600-1.2900)=11.0700		WET			
30	1043024	R2740154	ESMP	(11.7800-1.2900)=10.4900		DRY*100 = 91.40	32 ✓		
				(12.7600-1.2900)=11.4700		WET			
31	1043027	R2740154	ESMP	(10.0100-1.2900)=8.7200		DRY*100 = 80.30	33 ✓		
				(12.1500-1.2900)=10.8600		WET			
32	1043028	R2740154	ESMP	(12.3700-1.3300)=11.0400		DRY*100 = 85.40	34 ✓		
				(14.2600-1.3300)=12.9300		WET			
33	1043029	R2740154	ESMP	(10.4800-1.3300)=9.1500		DRY*100 = 85.10	35 ✓		
				(12.0800-1.3300)=10.7500		WET			
34	1043866	R27 0	DUPE	(11.4400-1.3300)=10.1100		DRY*100 = 86.30	36 ✓		
				(13.0400-1.3300)=11.7100		WET			
35	1043030	R2740154	ESMP	(11.2200-1.2900)=9.9300		DRY*100 = 80.50	38 ✓		
				(13.6300-1.2900)=12.3400		WET			
36	1043031	R2740154	ESMP	(13.5000-1.2800)=12.2200		DRY*100 = 88.20	39 ✓		
				(15.1300-1.2800)=13.8500		WET			
37	1043032	R2740154	ESMP	(11.7000-1.3000)=10.4000		DRY*100 = 91.00	40 ✓		
				(12.7300-1.3000)=11.4300		WET			
38	1043033	R2740154	ESMP	(11.1300-1.3000)=9.8300		DRY*100 = 88.60	41 ✓		
				(12.3900-1.3000)=11.0900		WET			
39	1043867	R27 0	DUPE	(12.3200-1.3100)=11.0100		DRY*100 = 88.70	42 ✓		
				(13.7200-1.3100)=12.4100		WET			
40	1043034	R2740154	ESMP	(12.7400-1.3000)=11.4400		DRY*100 = 90.40	43 ✓		
				(13.9600-1.3000)=12.6600		WET			
41	1043035	R2740154	ESMP	(10.9900-1.2900)=9.7000		DRY*100 = 89.50	44 ✓		
				(12.1300-1.2900)=10.8400		WET			
42	1043036	R2740154	ESMP	(11.0200-1.2800)=9.7400		DRY*100 = 86.60	45 ✓		
				(12.5200-1.2800)=11.2400		WET			
43	1043038	R2740154	ESMP	(10.9500-1.3200)=9.6300		DRY*100 = 88.30	46 ✓		
				(12.2300-1.3200)=10.9100		WET			

analyst: RL

a. e: 10/8/07 Time: 1000 "S" weight initial: 10g ± 0.00 final: 10g ± 0.00

Order #	Submission #	Dish I.D.	Wet Weight (g)	Dry Weight (g)	Percent Solid
	MB	1	1.30	Gross 1.30 Tare Diff.	
41312	40054	2	12.72 1.33	Gross 11.29 Tare Diff.	
314		3	13.13 1.32	Gross 11.38 Tare Diff.	
315		4	12.46 1.29	Gross 11.31 Tare Diff.	
42364	40123	5	11.98 12.11 1.31	Gross 10.99 Tare Diff.	
373		6	12.95 1.29	Gross 11.60 Tare Diff.	
383		7	12.00 1.28	Gross 10.29 Tare Diff.	
389		8	14.56 1.29	Gross 11.60 Tare Diff.	

Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: RP

Date: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)	Dry Weight (g)	Percent Solid
542390		9	11.94	Gross 9.55	
			1.29	Tare	
				Diff.	
391		10	14.04	Gross 10.96	
			1.31	Tare	
				Diff.	
392		11	12.42	Gross 9.58	
			1.32	Tare	
				Diff.	
042392		12	11.73	Gross 9.11	
			1.28	Tare	
				Diff.	
Dup				Gross 1.27	
	MB	13	1.28	Tare	
				Diff.	
12393			14.71	Gross 12.14	
		14	1.28	Tare	
				Diff.	
394			12.58	Gross 9.58	
		15	1.31	Tare	
				Diff.	
396			12.32	Gross 10.44	
		16	1.28	Tare	
				Diff.	

(3)

Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: RPe: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
342400		17	13.22	Gross	10.65	
			1.28	Tare		
				Diff.		
401		18	12.47	Gross	9.59	
			1.29	Tare		
				Diff.		
402		19	12.81	Gross	10.49	
			1.27	Tare		
				Diff.		
403		20	11.78	Gross	6.55	
			1.29	Tare		
				Diff.		
404		21	12.58	Gross	10.56	
			1.30	Tare		
				Diff.		
405		22	12.73	Gross	11.67	
			1.27	Tare		
				Diff.		
✓ 406		23	12.38	Gross	9.89	
			1.28	Tare		
				Diff.		
12405		24	12.56	Gross	11.62	
			1.30	Tare		
				Diff.		

126

Dup

ry Weight Percent Solids

analyst: RP

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

ate: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)	Dry Weight (g)	Percent Solid
				Gross 1.31	
	MB	25	1.30	Tare	
				Diff.	
242407			12.43	Gross 10.12	
		26	1.31	Tare	
				Diff.	
409			11.66	Gross 10.23	
		27	1.27	Tare	
				Diff.	
410			13.22	Gross 11.88	
		28	1.29	Tare	
				Diff.	
411			13.26	Gross 11.53	
		29	1.28	Tare	
				Diff.	
412			12.86	Gross 10.74	
		30	1.30	Tare	
				Diff.	
V 413			12.36	Gross 10.24	
		31	1.29	Tare	
				Diff.	
13024	40154		12.76	Gross 11.78	
		32	1.29	Tare	
				Diff.	

5

Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: RP

Date: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
43027		33	12.15	Gross	10.01	
			1.29	Tare		
				Diff.		
028		34	14.26	Gross	12.37	
			1.33	Tare		
				Diff.		
029		35	12.08	Gross	10.48	
			1.33	Tare		
				Diff.		
43029		36	13.04	Gross	11.47	
			1.33	Tare		
				Diff.		
DUP				Gross	1.28	
	MB	37	1.28	Tare		
				Diff.		
43030		38	13.63	Gross	11.22	
			1.29	Tare		
				Diff.		
031		39	15.13	Gross	13.50	
			1.28	Tare		
				Diff.		
032		40	12.73	Gross	11.70	
			1.30	Tare		128
				Diff.		

ry Weight Percent Solids

analyst: RIP

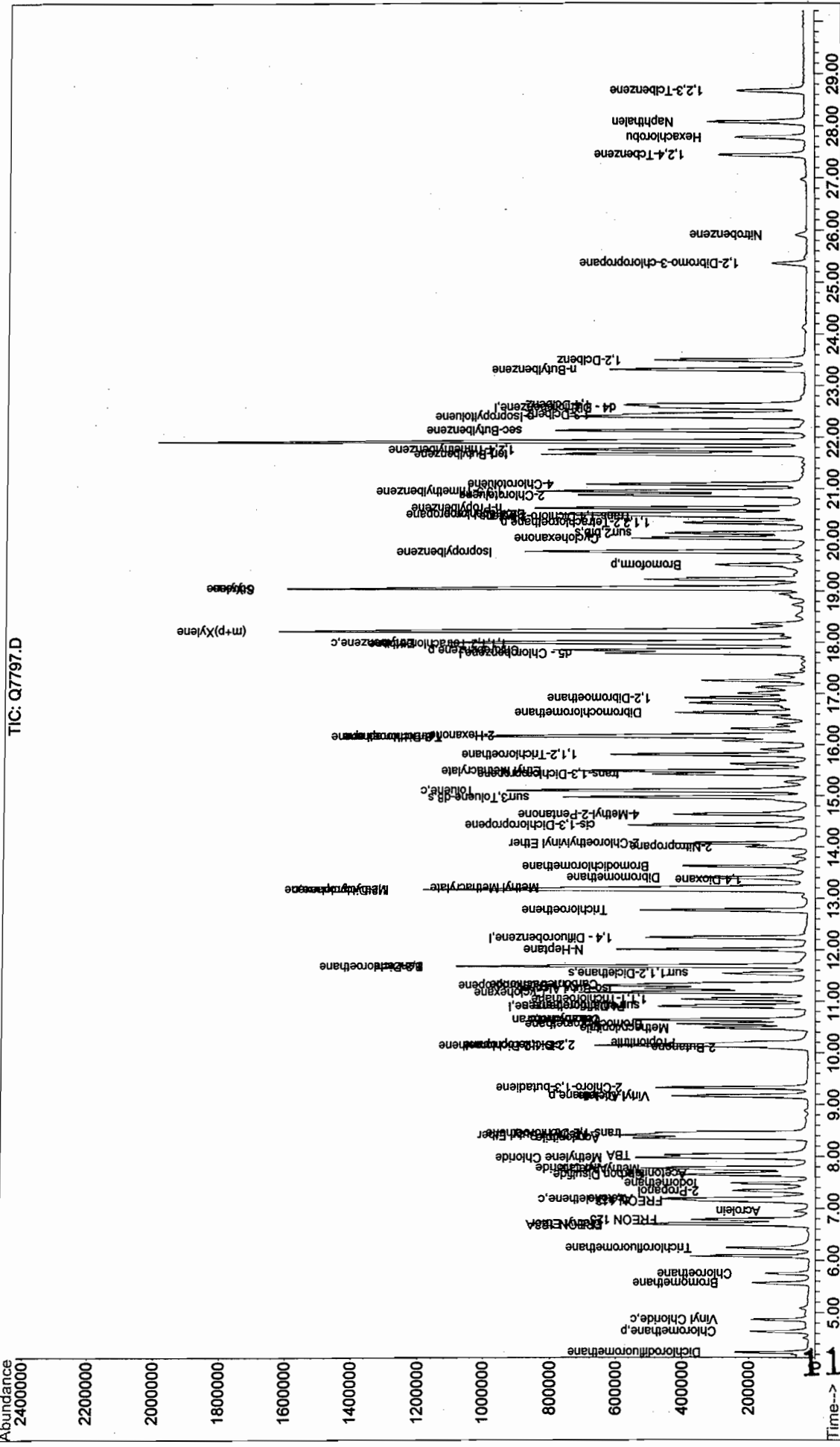
Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

ate: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
<u>043033</u>			<u>12.39</u>	Gross	<u>11.13</u>	
		<u>41</u>	<u>1.30</u>	Tare		
				Diff.		
<u>033</u>			<u>13.72</u>	Gross	<u>12.32</u>	
		<u>42</u>	<u>1.31</u>	Tare		
				Diff.		
<u>RIP</u>						
<u>034</u>			<u>13.96</u>	Gross	<u>12.74</u>	
		<u>43</u>	<u>1.30</u>	Tare		
				Diff.		
<u>035</u>			<u>12.13</u>	Gross	<u>10.99</u>	
		<u>44</u>	<u>1.29</u>	Tare		
				Diff.		
<u>036</u>			<u>12.52</u>	Gross	<u>11.02</u>	
		<u>45</u>	<u>1.28</u>	Tare		
				Diff.		
<u>038</u>			<u>12.23</u>	Gross	<u>10.95</u>	
		<u>46</u>	<u>1.32</u>	Tare		
				Diff.		
				Gross	<u>1.29</u>	
	<u>MB</u>	<u>47</u>	<u>1.30</u>	Tare		
				Diff.		
				Gross		
				Tare		
				Diff.		
				Gross		
				Tare		
				Diff.		

Data File : J:\ACQDATA\MSVOA7\DATA\100407\Q7797.D Vial: 36
Acq On : 4 Oct 2007 5:35 pm Operator: K.Ruest
Sample : 1041312 1.0 MSD Inst : GC/MS Ins
Misc : PARA R27-40056 8260B.TANK Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 4 18:05 2007 Quant Results File: SOL1003.RES

Method : J:\ACQDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title : 8260voa
Last Update : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration



Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7797.D

Vial: 36

Acq On : 4 Oct 2007 5:35 pm

Operator: K.Ruest

Sample : 1041312 1.0 MSD

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 18:05 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.64	146	423643	45.23	ppb	98
96) n-Butylbenzene	23.31	91	690133	39.74	ppb	96
97) 1,2-Dclbenz	23.49	146	410284	47.14	ppb	97
98) 1,2-Dibromo-3-chloropropan	25.36	157	70206	43.51	ppb	93
99) Nitrobenzene	25.91	77	48205	41.94	ppb	92
100) 1,2,4-Tcbenzene	27.45	180	181865	31.80	ppb	97
101) Hexachlorobu	27.78	225	98493	29.77	ppb	96
102) Naphthalen	28.08	128	540585	35.06	ppb✓	99
103) 1,2,3-Tclbenzene	28.67	180	161095	30.91	ppb	91

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7797.D

Vial: 36

Acq On : 4 Oct 2007 5:35 pm

Operator: K.Ruest

Sample : 1041312 1.0 MSD

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 18:05 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.04	97	327879	52.87	ppb	98
38) Cyclohexane	11.17	56	555472	45.51	ppb	95
41) Carbontetrachloride	11.33	117	287136	52.75	ppb	96
42) 1,1-Dichloropropene	11.29	75	366469	51.25	ppb	94
43) Iso-Butyl Alcohol	11.24	43	546514	978.79	ppb	99
45) Benzene	11.69	78	1003084	52.81	ppb	98
46) 1,2-Dichloroethane	11.67	62	365601	52.85	ppb	100
47) N-Heptane	12.00	43	451664	37.30	ppb	98
48) Trichloroethene	12.77	95	251232	52.09	ppb	94
49) Methylcyclohexane	13.17	55	431977	42.35	ppb	96
50) 1,2-Diclpropane	13.18	63	374287	55.21	ppb	94
51) Methyl Methacrylate	13.22	100	86552	54.48	ppb	98
52) 1,4-Dioxane	13.35	88	76815	975.87	ppb	97
53) Dibromomethane	13.40	93	199589	52.04	ppb	97
54) Bromodichloromethane	13.62	83	377560	54.43	ppb	100
55) 2-Nitropropane	14.00	43	229106	92.73	ppb	93
56) 2-Chloroethylvinyl Ether	14.07	63	259651	52.18	ppb	96
57) cis-1,3-Dichloropropene	14.43	75	483143	52.15	ppb	100
59) 4-Methyl-2-Pentanone	14.63	43	604125	51.70	ppb	95
60) Toluene	15.10	91	1052721	54.53	ppb	99
61) trans-1,3-Dichloropropene	15.42	75	395508	47.03	ppb	98
62) Ethyl Methacrylate	15.48	69	519144	57.12	ppb	97
63) 1,1,2-Trichloroethane	15.81	83	245432	53.99	ppb	87
66) Tetrachloroethene	16.17	166	254009	47.75	ppb	97
67) 2-Hexanone	16.19	43	435297	47.11	ppb	99
68) 1,3-Dichloropropane	16.15	76	487974	52.75	ppb	94
70) Dibromochloromethane	16.63	129	319682	51.78	ppb	95
71) 1,2-Dibromoethane	16.91	107	285439	49.02	ppb	96
72) Chlorobenzene	17.85	112	673606	48.68	ppb	96
73) 1,1,1,2-Tetrachloroethane	17.97	131	264437	53.28	ppb	96
74) Ethylbenzene	18.01	91	1161315	51.22	ppb	99
75) (m+p)Xylene	18.22	106	862502	103.83	ppb	99
76) o-Xylene	19.05	106	416335	48.77	ppb	92
77) Styrene	19.07	104	678229	47.15	ppb	98
78) Bromoform	19.52	173	229761	48.48	ppb	100
79) Isopropylbenzene	19.77	105	1081235	49.89	ppb	98
80) Cyclohexanone	20.04	55	480418	448.93	ppb	98
82) 1,1,2,2-Tetrachloroethane	20.34	83	402153	55.42	ppb	99
83) Trans-1,4-Dichloro-2-buten	20.45	53	118630	76.14	ppb	92
84) 1,2,3-Trichloropropane	20.49	110	101053	56.60	ppb	98
85) n-Propylbenzene	20.63	91	1262984	52.75	ppb	99
86) Bromobenzene	20.52	156	268594	53.35	ppb	93
87) 1,3,5-Trimethylbenzene	20.95	105	812168	53.89	ppb	100
88) 2-Chlorotoluene	20.87	91	742574	53.86	ppb	98
89) 4-Chlorotoluene	21.09	91	690904	49.24	ppb	98
90) tert-Butylbenzene	21.67	119	706668	54.09	ppb	98
91) 1,2,4-Trimethylbenzene	21.76	105	800362	53.00	ppb	100
92) sec-Butylbenzene	22.13	105	1064754	52.22	ppb	100
93) p-Isopropyltoluene	22.40	119	805172	47.10	ppb	98
94) 1,3-Dclbenz	22.45	146	420223	45.57	ppb	94

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

Q7797.D SOL1003.M Thu Oct 04 18:06:01 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7797.D

Vial: 36

Acq On : 4 Oct 2007 5:35 pm

Operator: K.Ruest

Sample : 1041312 1.0 MSD 10413053

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 18:05 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	350166	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.23	114	592800	50.00	ppb	-0.03
58) d5 - Chlorobenzene	17.79	117	562517	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.58	152	228075	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4,Dibrfilmethane	10.92	113	229558	48.43	ppb	-0.02
Spiked Amount 50.000			Recovery	=	96.86%	
44) surr1,1,2-Dicethane	11.54	65	239863	49.94	ppb	-0.02
Spiked Amount 50.000			Recovery	=	99.88%	
64) surr3,Toluene-d8	14.97	98	702736	47.23	ppb	-0.02
Spiked Amount 50.000			Recovery	=	94.46%	
65) surr2,bfb	20.13	95	275394	42.93	ppb	-0.02
Spiked Amount 50.000			Recovery	=	85.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.24	85	260626	62.27	ppb	98
3) Chloromethane	4.64	50	287409	47.74	ppb	98
4) Vinyl Chloride	4.87	62	221659	51.07	ppb	99
5) Bromomethane	5.57	96	167755	47.30	ppb	93
6) Chloroethane	5.76	64	175397	47.12	ppb	97
7) Trichlorofluoromethane	6.24	101	319737	57.50	ppb	95
8) Diethyl Ether	6.71	59	240953	57.18	ppb	98
9) FREON 123A	6.68	67	351267	52.02	ppb	95
10) FREON 123	6.78	83	359810	51.96	ppb	94
11) Acrolein	6.95	56	62393	62.69	ppb	91
12) FREON 113	7.14	85	98052	55.77	ppb	89
13) 1,1-Dicethene	7.17	96	176161	52.78	ppb	93
14) Acetone	7.19	43	199302	78.22	ppb	92
15) 2-Propanol	7.33	45	609661	782.86	ppb	100
16) Iodomethane	7.49	127	179549	52.70	ppb	86
17) Carbon Disulfide	7.64	76	742254	45.66	ppb	100
18) Acetonitrile	7.68	41	236652	238.36	ppb	95
19) Allyl Chloride	7.78	41	536921	49.42	ppb	97
20) Methyl Acetate	7.75	43	419796	42.64	ppb	99
21) Methylene Chloride	7.97	84	276930	55.61	ppb	99
22) TBA	8.02	59	866470	888.86	ppb	96
23) Acrylonitrile	8.35	53	649551	226.72	ppb	99
24) Methyl-t-Butyl Ether	8.41	73	705334	55.23	ppb	98
25) trans-1,2-Dichloroethene	8.46	96	207810	45.20	ppb	89
26) 1,1-Dicethane	9.17	63	526547	52.62	ppb	97
27) Vinyl Acetate	9.15	43	267234	28.61	ppb	99
28) 2-Chloro-1,3-butadiene	9.32	53	436878	66.11	ppb	99
29) 2,2-Dichloropropane	10.16	77	345783	50.89	ppb	96
30) 2-Butanone	10.09	43	233606	43.63	ppb	97
31) cis-1,2-Dichloroethene	10.13	96	256144	49.72	ppb	99
32) Propionitrile	10.20	54	282677	234.87	ppb	98
33) Methacrylonitrile	10.48	67	134157	50.99	ppb	89
34) Bromochloromethane	10.55	128	145991	48.83	ppb	97
35) Chloroform	10.63	83	470350	53.23	ppb	93
36) Tetrahydrofuran	10.64	42	160485	47.56	ppb	97

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

Q7797.D SOL1003.M Thu Oct 04 18:06:00 2007

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07

Project Reference:

Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled :	Order #: 1043053	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 87.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 10/04/07		
ANALYTICAL DILUTION:	1.00		Dry Weight
BENZENE	5.0	61	UG/KG
N-BUTYLBENZENE	5.0	46	UG/KG
SEC-BUTYLBENZENE	5.0	59	UG/KG
TERT-BUTYLBENZENE	5.0	62	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	63	UG/KG
ETHYLBENZENE	5.0	58	UG/KG
ISOPROPYL BENZENE	5.0	57	UG/KG
P-ISOPROPYLTOLUENE	5.0	54	UG/KG
NAPHTHALENE	5.0	40	UG/KG
N-PROPYLBENZENE	5.0	61	UG/KG
TOLUENE	5.0	62	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	61	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	62	UG/KG
O-XYLENE	5.0	56	UG/KG
M+P-XYLENE	5.0	110	UG/KG

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(50 - 135 %)	86	%
TOLUENE-D8	(75 - 128 %)	94	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	97	%

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D
 Acq On : 4 Oct 2007 4:59 pm
 Sample : 1041312 1.0 MS
 Misc : PARA R27-40056 8260B.TANK
 MS Integration Params: RTEINT.P
 Quant Time: Oct 4 17:28 2007
 Vial: 35
 Operator: K.Ruest
 Inst : GC/MS Ins
 Multiplr: 1.00
 Quant Results File: SOL1003.RES

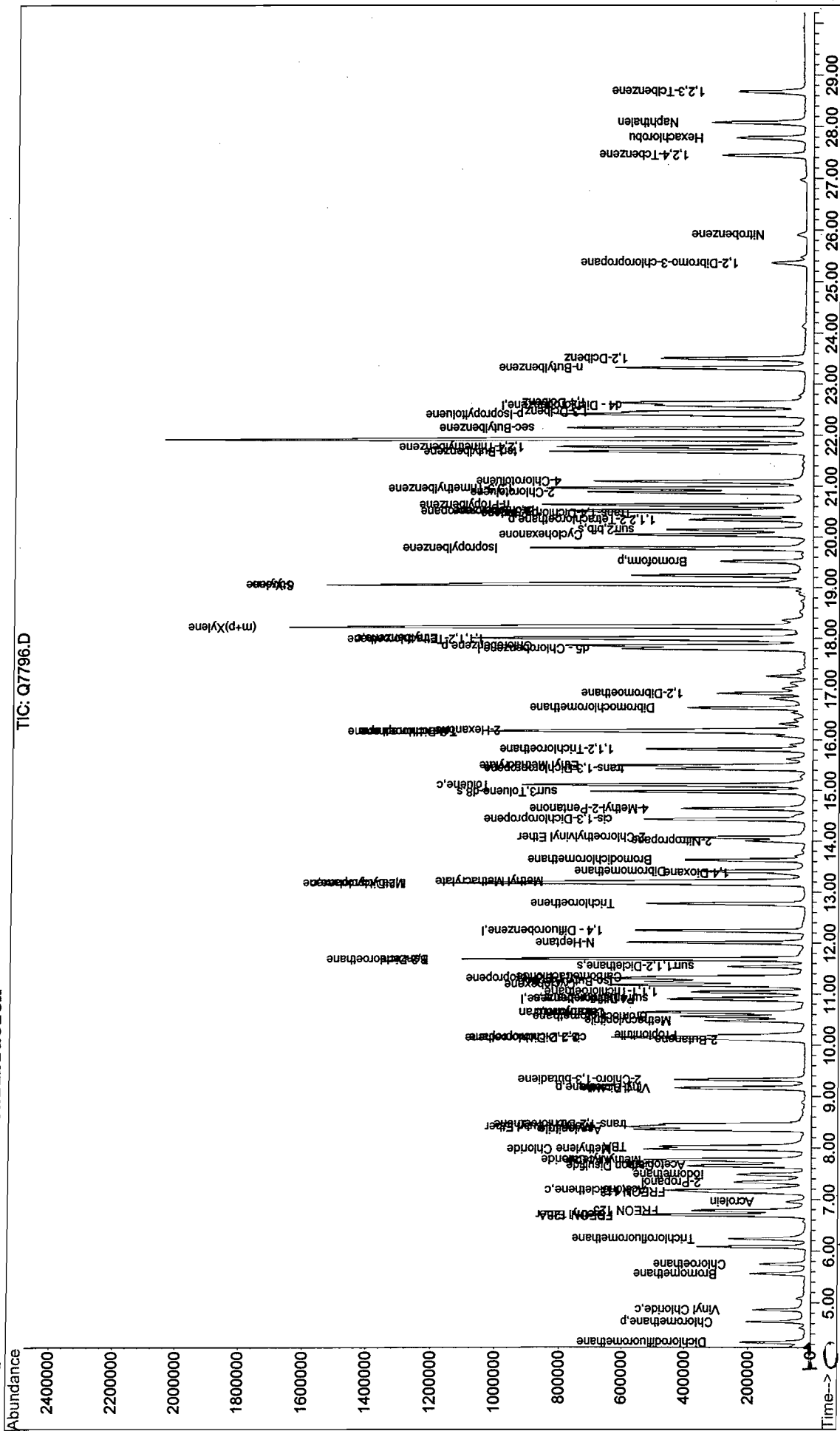
Quant Results File: SOL1003.RES

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Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
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Title : 8260voa
Last Update : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration

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Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D

Vial: 35

Acq On : 4 Oct 2007 4:59 pm

Operator: K.Ruest

Sample : 1041312 1.0 MS

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 17:28 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.63	146	425573	46.20	ppb	98
96) n-Butylbenzene	23.31	91	710398	41.59	ppb	98
97) 1,2-Dclbenz	23.49	146	409520	47.83	ppb	99
98) 1,2-Dibromo-3-chloropropan	25.37	157	72073	45.42	ppb	96
99) Nitrobenzene	25.91	77	37091	32.81	ppb	98
100) 1,2,4-Tcbenzene	27.44	180	184505	32.80	ppb	100
101) Hexachlorobu	27.79	225	97799	30.05	ppb	92
102) Naphthalen	28.08	128	526610	34.72	ppb✓	98
103) 1,2,3-Tclbenzene	28.68	180	163754	31.94	ppb	93

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D

Vial: 35

Acq On : 4 Oct 2007 4:59 pm

Operator: K.Ruest

Sample : 1041312 1.0 MS

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 17:28 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.04	97	324934	55.27	ppb	95
38) Cyclohexane	11.17	56	515338	44.53	ppb	98
41) Carbontetrachloride	11.34	117	284581	48.95	ppb	97
42) 1,1-Dichloropropene	11.30	75	358685	46.97	ppb	99
43) Iso-Butyl Alcohol	11.24	43	539139	904.12	ppb	96
45) Benzene	11.69	78	996538	49.13	ppb	99
46) 1,2-Dichloroethane	11.67	62	380241	51.47	ppb	97
47) N-Heptane	12.00	43	442509	34.22	ppb	99
48) Trichloroethene	12.77	95	255700	49.64	ppb	98
49) Methylcyclohexane	13.17	55	445295	40.88	ppb	98
50) 1,2-Dichloropropane	13.19	63	372301	51.42	ppb	97
51) Methyl Methacrylate	13.22	100	87355	51.49	ppb	95
52) 1,4-Dioxane	13.36	88	82887	985.99	ppb	98
53) Dibromomethane	13.40	93	203413	49.66	ppb	98
54) Bromodichloromethane	13.63	83	381448	51.49	ppb	96
55) 2-Nitropropane	14.00	43	252931	95.86	ppb	100
56) 2-Chloroethylvinyl Ether	14.07	63	245990	46.29	ppb	98
57) cis-1,3-Dichloropropene	14.43	75	476314	48.14	ppb	98
59) 4-Methyl-2-Pentanone	14.63	43	580250	49.96	ppb	99
60) Toluene	15.10	91	1017515	53.02	ppb	99
61) trans-1,3-Dichloropropene	15.42	75	405201	48.47	ppb	100
62) Ethyl Methacrylate	15.48	69	496195	54.93	ppb	94
63) 1,1,2-Trichloroethane	15.81	83	248045	54.89	ppb	96
66) Tetrachloroethene	16.17	166	258410	48.87	ppb	95
67) 2-Hexanone	16.19	43	421065	45.84	ppb	98
68) 1,3-Dichloropropane	16.15	76	492268	53.54	ppb	96
70) Dibromochloromethane	16.63	129	328813	53.58	ppb	95
71) 1,2-Dibromoethane	16.91	107	292170	50.47	ppb	97
72) Chlorobenzene	17.86	112	676907	49.21	ppb	99
73) 1,1,1,2-Tetrachloroethane	17.98	131	258986	52.49	ppb	96
74) Ethylbenzene	18.00	91	1122640	49.81	ppb	97
75) (m+p)Xylene	18.22	106	854086	103.44	ppb	99
76) o-Xylene	19.05	106	424262	50.00	ppb	97
77) Styrene	19.06	104	664172	46.45	ppb	94
78) Bromoform	19.51	173	234790	49.84	ppb	99
79) Isopropylbenzene	19.78	105	1079308	50.10	ppb	99
80) Cyclohexanone	20.03	55	559390	519.81	ppb	95
82) 1,1,2,2-Tetrachloroethane	20.34	83	411538	57.66	ppb	97
83) Trans-1,4-Dichloro-2-buten	20.45	53	123039	80.29	ppb	99
84) 1,2,3-Trichloropropane	20.49	110	104214	59.35	ppb	99
85) n-Propylbenzene	20.63	91	1252514	53.19	ppb	99
86) Bromobenzene	20.52	156	271733	54.87	ppb	97
87) 1,3,5-Trimethylbenzene	20.95	105	814062	54.92	ppb	95
88) 2-Chlorotoluene	20.87	91	724121	53.40	ppb	99
89) 4-Chlorotoluene	21.09	91	738146	53.48	ppb	98
90) tert-Butylbenzene	21.67	119	696100	54.17	ppb	98
91) 1,2,4-Trimethylbenzene	21.76	105	807300	54.35	ppb	100
92) sec-Butylbenzene	22.13	105	1052095	52.46	ppb	100
93) p-Isopropyltoluene	22.40	119	847895	50.43	ppb	97
94) 1,3-Dichlorobenz	22.45	146	433213	47.76	ppb	97

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

Q7796.D SOL1003.M Thu Oct 04 17:29:30 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7796.D

Vial: 35

Acq On : 4 Oct 2007 4:59 pm

Operator: K.Ruest

Sample : 1041312 1.0 MS 1043052

Inst : GC/MS Ins

Misc : PARA R27-40056 8260B.TANK

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 17:28 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

KLP 10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	331973	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.24	114	633098	50.00	ppb	-0.02
58) d5 - Chlorobenzene	17.79	117	559149	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.58	152	224328	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4, Dibrflmethane	10.92	113	235012	46.43	ppb	-0.02
Spiked Amount	50.000		Recovery	=	92.86%	
44) surr1, 1,2-Dicethane	11.54	65	231647	45.16	ppb	-0.02
Spiked Amount	50.000		Recovery	=	90.32%	
64) surr3, Toluene-d8	14.97	98	713157	48.22	ppb	-0.02
Spiked Amount	50.000		Recovery	=	96.44%	
65) surr2, bfb	20.13	95	281632	44.17	ppb	-0.02
Spiked Amount	50.000		Recovery	=	88.34%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.24	85	245514	61.87	ppb	# 95
3) Chloromethane	4.63	50	304223	53.31	ppb	99
4) Vinyl Chloride	4.87	62	225308	54.75	ppb	94
5) Bromomethane	5.56	96	173404	51.57	ppb	97
6) Chloroethane	5.74	64	186685	52.90	ppb	96
7) Trichlorofluoromethane	6.24	101	322815	61.24	ppb	98
8) Diethyl Ether	6.71	59	236445	59.19	ppb	99
9) FREON 123A	6.68	67	343374	53.64	ppb	96
10) FREON 123	6.78	83	359244	54.73	ppb	96
11) Acrolein	6.96	56	81347	86.21	ppb	91
12) FREON 113	7.13	85	96329	57.79	ppb	90
13) 1,1-Dicethene	7.17	96	172588	54.54	ppb	100
14) Acetone	7.19	43	165667	68.58	ppb	99
15) 2-Propanol	7.33	45	632359	856.51	ppb	99
16) Iodomethane	7.49	127	171890	53.22	ppb	84
17) Carbon Disulfide	7.65	76	703776	45.67	ppb	99
18) Acetonitrile	7.68	41	245236	260.54	ppb	95
19) Allyl Chloride	7.78	41	540566	52.48	ppb	100
20) Methyl Acetate	7.75	43	430177	46.08	ppb	99
21) Methylene Chloride	7.97	84	274603	58.16	ppb	95
22) TBA	8.03	59	935244	1011.99	ppb	94
23) Acrylonitrile	8.35	53	678331	249.74	ppb	100
24) Methyl-t-Butyl Ether	8.41	73	715987	59.14	ppb	99
25) trans-1,2-Dichloroethene	8.46	96	212238	48.69	ppb	99
26) 1,1-Dicethane	9.16	63	527062	55.55	ppb	95
27) Vinyl Acetate	9.14	43	301514	34.05	ppb	98
28) 2-Chloro-1,3-butadiene	9.32	53	390846	62.38	ppb	99
29) 2,2-Dichloropropane	10.16	77	325862	50.59	ppb	98
30) 2-Butanone	10.09	43	243500	47.97	ppb	99
31) cis-1,2-Dichloroethene	10.13	96	251788	51.55	ppb	98
32) Propionitrile	10.20	54	273481	239.68	ppb	98
33) Methacrylonitrile	10.48	67	132494	53.12	ppb	87
34) Bromochloromethane	10.55	128	152170	53.68	ppb	98
35) Chloroform	10.64	83	462449	55.20	ppb	99
36) Tetrahydrofuran	10.63	42	160261	50.09	ppb	99

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

Q7796.D SOL1003.M Thu Oct 04 17:29:29 2007

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled :	Order #: 1043052	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 87.4

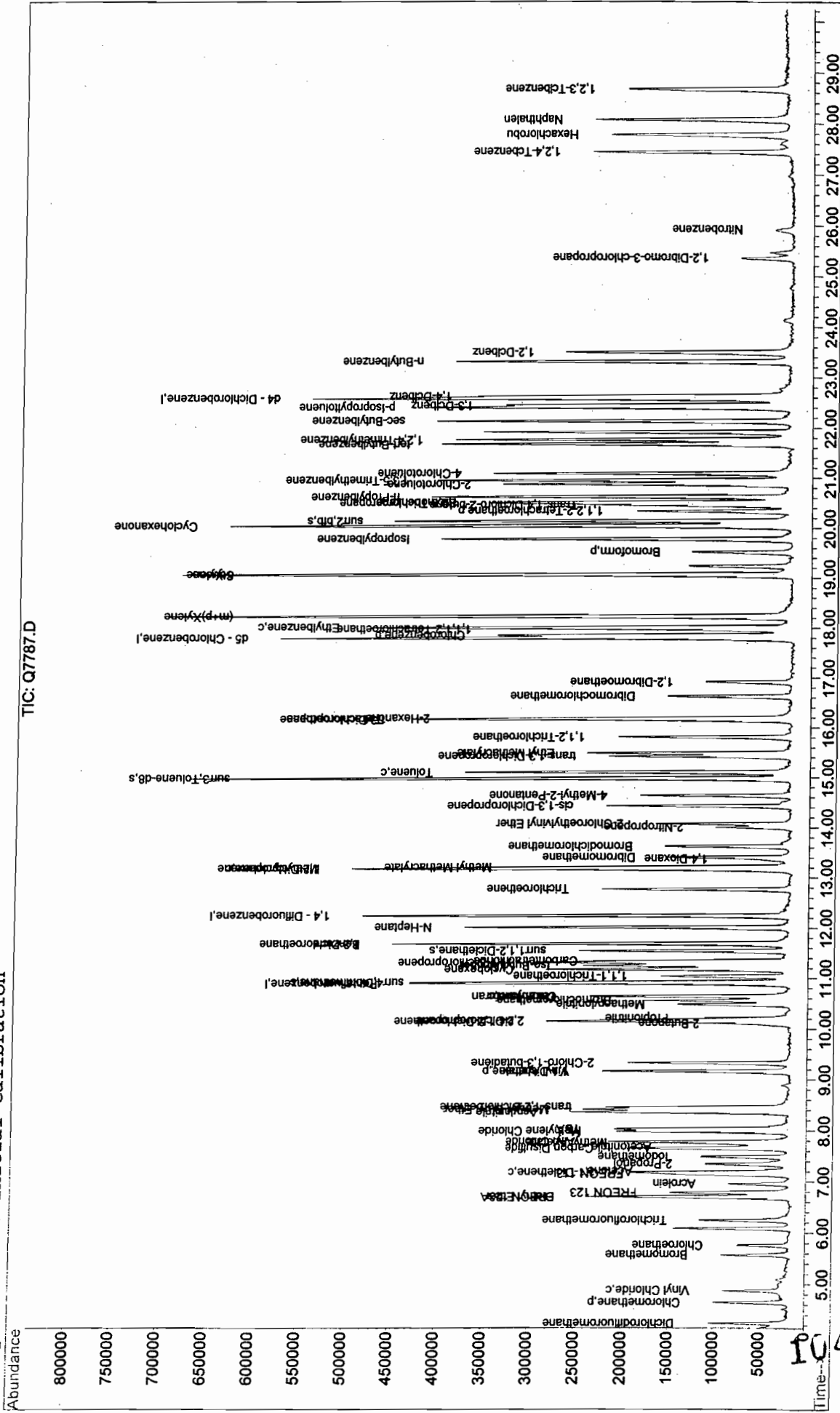
ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/07			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	5.0	56	UG/KG
N-BUTYLBENZENE	5.0	48	UG/KG
SEC-BUTYLBENZENE	5.0	59	UG/KG
TERT-BUTYLBENZENE	5.0	62	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	68	UG/KG
ETHYLBENZENE	5.0	57	UG/KG
ISOPROPYL BENZENE	5.0	57	UG/KG
P-ISOPROPYLTOLUENE	5.0	57	UG/KG
NAPHTHALENE	5.0	40	UG/KG
N-PROPYLBENZENE	5.0	61	UG/KG
TOLUENE	5.0	61	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	62	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	63	UG/KG
O-XYLENE	5.0	57	UG/KG
M+P-XYLENE	5.0	110	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	88	%
TOLUENE-D8	(75 - 128 %)	96	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	93	%

Vial: 27
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: SOL1003.RES

```
Method : J:\ACQUDATA\MSVOA7\METHODS
Title : 8260voa
Last Update : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration
```



Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7787.D

Vial: 27

Acq On : 4 Oct 2007 11:29 am

Operator: K.Ruest

Sample : LCS

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:33 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) 1,4-Dclbenz	22.63	146	228126	21.18	ppb	95
96) n-Butylbenzene	23.31	91	429799	21.52	ppb	97
97) 1,2-Dclbenz	23.50	146	222173	22.20	ppb	95
98) 1,2-Dibromo-3-chloropropan	25.36	157	36871	19.87	ppb	96
99) Nitrobenzene	25.91	77	28065	21.24	ppb	91
100) 1,2,4-Tcbenzene	27.44	180	146061	22.21	ppb	100
101) Hexachlorobu	27.79	225	85772	22.55	ppb	99
102) Naphthalen	28.07	128	388302	21.90	ppb	99
103) 1,2,3-Tclbenzene	28.67	180	127175	21.22	ppb	98

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7787.D

Vial: 27

Acq On : 4 Oct 2007 11:29 am

Operator: K.Ruest

Sample : LCS

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:33 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,1,1-Trichloroethane	11.03	97	125194	20.74	ppb	94
38) Cyclohexane	11.16	56	222374	18.72	ppb	95
41) Carbontetrachloride	11.34	117	114986	21.84	ppb	92
42) 1,1-Dichloropropene	11.30	75	156642	22.65	ppb	97
43) Iso-Butyl Alcohol	11.24	43	245245	454.08	ppb	93
45) Benzene	11.68	78	409928	22.31	ppb	99
46) 1,2-Dichloroethane	11.67	62	146289	21.86	ppb	95
47) N-Heptane	12.01	43	286584	24.47	ppb	99
48) Trichloroethene	12.77	95	102904	22.06	ppb	92
49) Methylcyclohexane	13.16	55	193008	19.56	ppb	97
50) 1,2-Dichloropropane	13.17	63	138784	21.16	ppb	97
51) Methyl Methacrylate	13.21	100	34089	22.18	ppb	87
52) 1,4-Dioxane	13.36	88	33519	440.23	ppb	96
53) Dibromomethane	13.40	93	80205	21.62	ppb	93
54) Bromodichloromethane	13.62	83	144850	21.59	ppb	97
55) 2-Nitropropane	14.00	43	102014	42.69	ppb	98
56) 2-Chloroethylvinyl Ether	14.07	63	98017	20.36	ppb	96
57) cis-1,3-Dichloropropene	14.42	75	185105	20.66	ppb	97
59) 4-Methyl-2-Pentanone	14.63	43	239915	21.17	ppb	97
60) Toluene	15.10	91	408650	21.83	ppb	95
61) trans-1,3-Dichloropropene	15.42	75	171160	20.99	ppb	95
62) Ethyl Methacrylate	15.48	69	184747	20.96	ppb	97
63) 1,1,2-Trichloroethane	15.80	83	97151	22.04	ppb	98
66) Tetrachloroethene	16.17	166	113555	22.01	ppb	95
67) 2-Hexanone	16.19	43	186219	20.78	ppb	96
68) 1,3-Dichloropropane	16.15	76	189530	21.13	ppb	95
70) Dibromochloromethane	16.62	129	131958	22.04	ppb	95
71) 1,2-Dibromoethane	16.91	107	118658	21.01	ppb	95
72) Chlorobenzene	17.85	112	286491	21.35	ppb	96
73) 1,1,1,2-Tetrachloroethane	17.96	131	104855	21.78	ppb	98
74) Ethylbenzene	18.00	91	503745	22.91	ppb	98
75) (m+p)Xylene	18.23	106	361272	44.85	ppb	95
76) o-Xylene	19.06	106	183726	22.20	ppb	91
77) Styrene	19.07	104	300527	21.55	ppb	97
78) Bromoform	19.52	173	97518	21.22	ppb	96
79) Isopropylbenzene	19.77	105	478681	22.78	ppb	98
80) Cyclohexanone	20.03	55	558576	531.23	ppb	100
82) 1,1,2,2-Tetrachloroethane	20.34	83	178477	21.39	ppb	96
83) Trans-1,4-Dichloro-2-buten	20.44	53	51985	29.02	ppb✓	95
84) 1,2,3-Trichloropropane	20.48	110	46271	22.54	ppb	94
85) n-Propylbenzene	20.61	91	596472	21.67	ppb	97
86) Bromobenzene	20.51	156	126133	21.79	ppb	96
87) 1,3,5-Trimethylbenzene	20.95	105	376008	21.70	ppb	97
88) 2-Chlorotoluene	20.88	91	337518	21.29	ppb	98
89) 4-Chlorotoluene	21.09	91	361836	22.43	ppb	96
90) tert-Butylbenzene	21.67	119	341041	22.70	ppb	99
91) 1,2,4-Trimethylbenzene	21.76	105	379591	21.86	ppb	99
92) sec-Butylbenzene	22.13	105	561972	23.97	ppb	96
93) p-Isopropyltoluene	22.40	119	438789	22.33	ppb	100
94) 1,3-Diclbz	22.45	146	236306	22.29	ppb	97

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

Q7787.D SOL1003.M

Thu Oct 04 15:35:26 2007

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7787.D

Vial: 27

Acq On : 4 Oct 2007 11:29 am

Operator: K.Ruest

Sample : LCS 1043051

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:33 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

LR 10/4/07

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	340804	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.24	114	573413	50.00	ppb	-0.02
58) d5 - Chlorobenzene	17.78	117	545477	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.57	152	262245	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4, Dibrflmethane	10.91	113	216888	47.31	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.62%	
44) surr1, 1,2-Dicethane	11.54	65	218349	47.00	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.00%	
64) surr3, Toluene-d8	14.97	98	681443	47.23	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.46%	
65) surr2, bfb	20.13	95	287926	46.28	ppb	-0.02
Spiked Amount	50.000		Recovery	=	92.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.23	85	99736	24.48	ppb	100
3) Chloromethane	4.64	50	126289	21.56	ppb	93
4) Vinyl Chloride	4.87	62	92575	21.91	ppb	93
5) Bromomethane	5.56	96	69025	20.00	ppb	96
6) Chloroethane	5.75	64	73072	20.17	ppb	94
7) Trichlorofluoromethane	6.24	101	126541	23.38	ppb	100
8) Diethyl Ether	6.71	59	89708	21.87	ppb	89
9) FREON 123A	6.69	67	137742	20.96	ppb	96
10) FREON 123	6.79	83	136461	20.25	ppb	96
11) Acrolein	6.95	56	97339	100.49	ppb	97
12) FREON 113	7.14	85	39509	23.09	ppb	93
13) 1,1-Dicethene	7.18	96	72435	22.30	ppb	93
14) Acetone	7.20	43	53678	21.65	ppb	# 82
15) 2-Propanol	7.34	45	261049	344.42	ppb	99
16) Iodomethane	7.49	127	75138	22.66	ppb	84
17) Carbon Disulfide	7.64	76	329416	20.82	ppb	98
18) Acetonitrile	7.67	41	97648	101.05	ppb	94
19) Allyl Chloride	7.77	41	203297	19.23	ppb	97
20) Methyl Acetate	7.74	43	167926	17.52	ppb	100
21) Methylene Chloride	7.98	84	100760	20.79	ppb	97
22) TBA	8.02	59	391628	412.78	ppb	95
23) Acrylonitrile	8.35	53	287293	103.03	ppb	99
24) Methyl-t-Butyl Ether	8.40	73	265941	21.40	ppb	99
25) trans-1,2-Dichloroethene	8.45	96	88617	19.80	ppb	93
26) 1,1-Dicethane	9.16	63	209772	21.54	ppb	93
27) Vinyl Acetate	9.15	43	204480	22.49	ppb	100
28) 2-Chloro-1,3-butadiene	9.32	53	170016	26.43	ppb * NT	97
29) 2,2-Dichloropropane	10.16	77	135694	20.52	ppb	99
30) 2-Butanone	10.09	43	99958	19.18	ppb	# 90
31) cis-1,2-Dichloroethene	10.14	96	102968	20.54	ppb	95
32) Propionitrile	10.21	54	116163	99.17	ppb	91
33) Methacrylonitrile	10.47	67	56583	22.10	ppb	86
34) Bromochloromethane	10.55	128	57032	19.60	ppb	97
35) Chloroform	10.64	83	183980	21.39	ppb	98
36) Tetrahydrofuran	10.63	42	70170	21.36	ppb	99

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

Q7787.D SOL1003.M Thu Oct 04 15:35:25 2007

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07

Project Reference:

Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :	Order #: 1043051	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

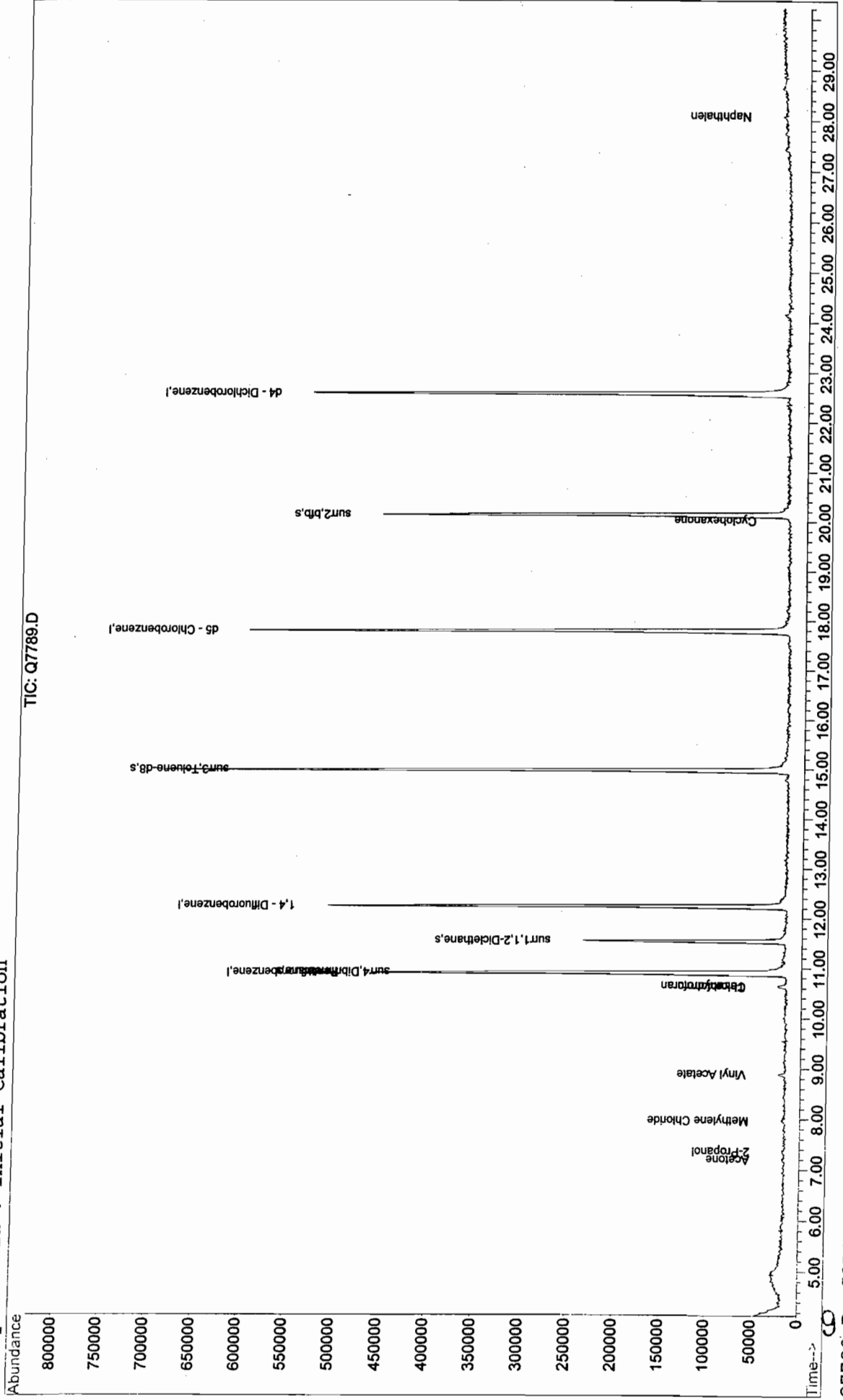
ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/07			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	5.0	22	UG/KG
N-BUTYLBENZENE	5.0	22	UG/KG
SEC-BUTYLBENZENE	5.0	24	UG/KG
TERT-BUTYLBENZENE	5.0	23	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	21	UG/KG
ETHYLBENZENE	5.0	23	UG/KG
ISOPROPYL BENZENE	5.0	23	UG/KG
P-ISOPROPYLTOLUENE	5.0	22	UG/KG
NAPHTHALENE	5.0	22	UG/KG
N-PROPYLBENZENE	5.0	22	UG/KG
TOLUENE	5.0	22	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	22	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	22	UG/KG
O-XYLENE	5.0	22	UG/KG
M+P-XYLENE	5.0	45	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	93	%
TOLUENE-D8	(75 - 128 %)	94	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	95	%

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D
Acq On : 4 Oct 2007 12:42 pm
Sample : MET BLK
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 4 15:35 2007

Vial: 28
Operator: K.Ruest
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: SOL1003.RES

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)
Title : 8260voa
Last Update : Thu Oct 04 15:14:55 2007
Response via : Initial Calibration



Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D

Vial: 28

Acq On : 4 Oct 2007 12:42 pm

Operator: K.Ruest

Sample : MET BLK

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:39 2007

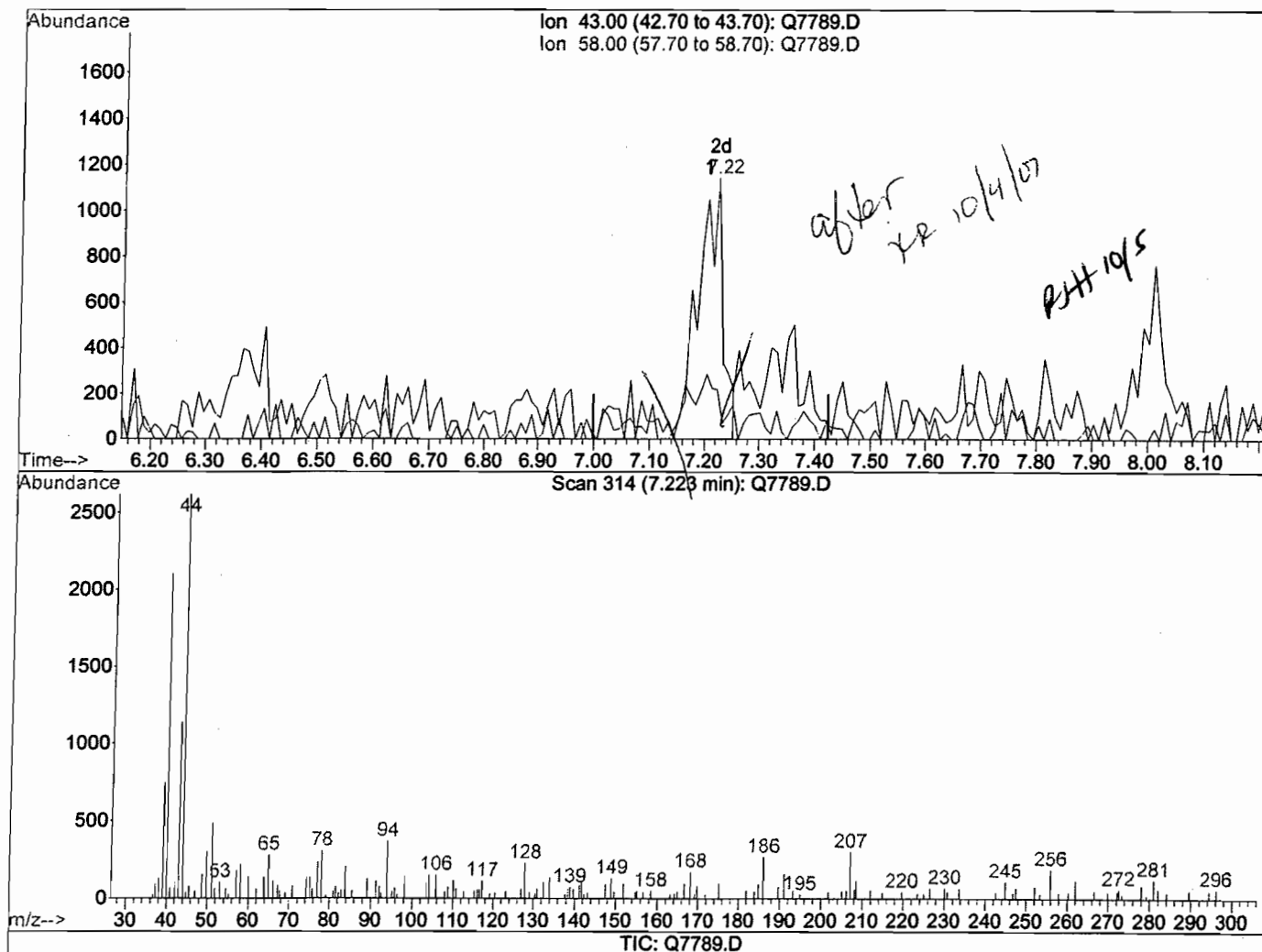
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260vov

Last Update : Thu Oct 04 15:14:55 2007

Response via : Single Level Calibration



(14) Acetone

7.22min 1.41ppb m

response 3575

Ion	Exp%	Act%
43.00	100	100
58.00	26.90	19.09#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D

Vial: 28

Acq On : 4 Oct 2007 12:42 pm

Operator: K.Ruest

Sample : MET BLK

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:35 2007

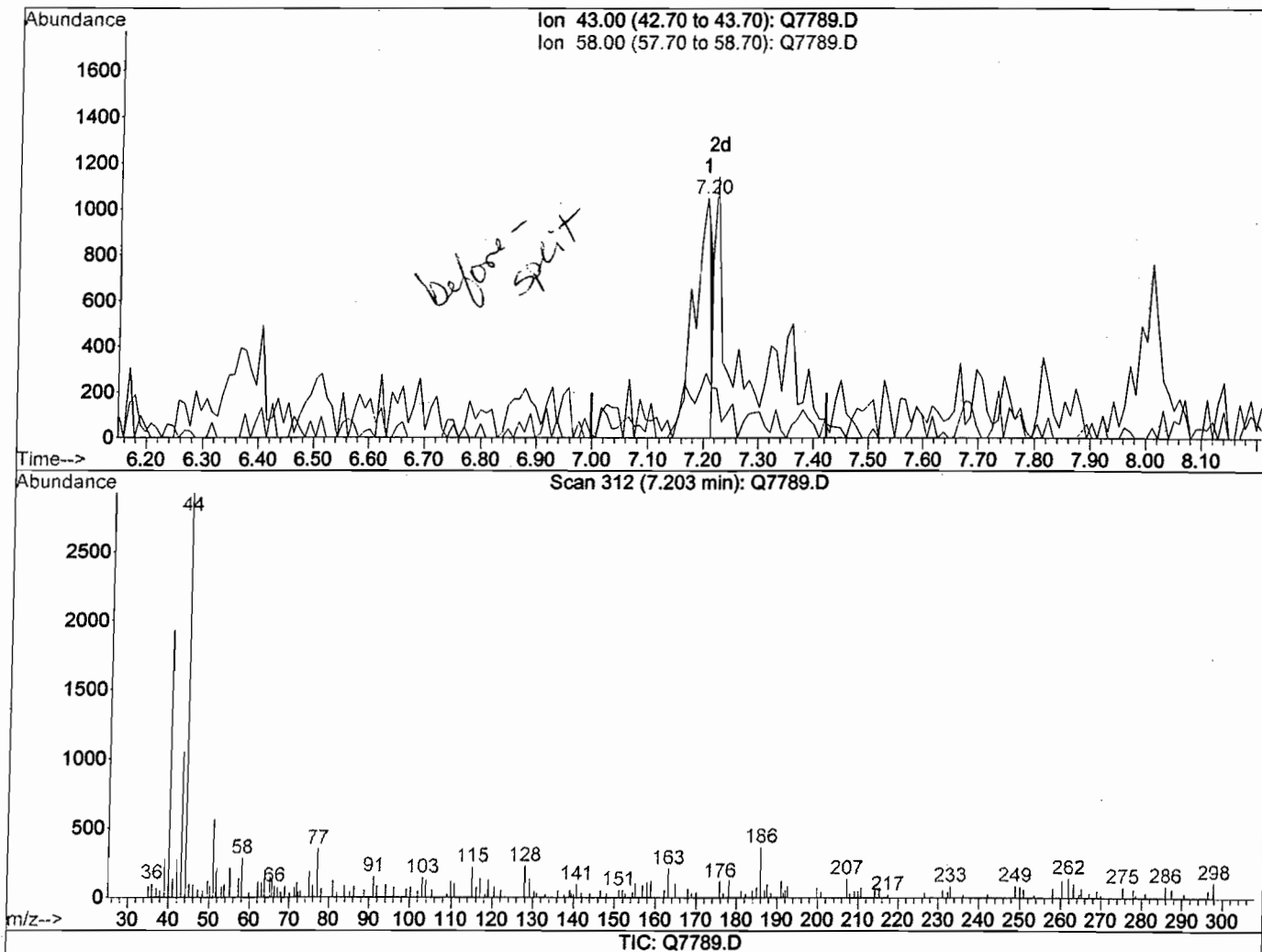
Quant Results File: temp.res

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Single Level Calibration



(14) Acetone

7.20min 0.95ppb

response 2402

Ion	Exp%	Act%
43.00	100	100
58.00	26.90	27.10
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7789.D

Vial: 28

Acq On : 4 Oct 2007 12:42 pm

Operator: K.Ruest

Sample : MET BLK

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 4 15:35 2007

Quant Results File: SOL1003.RES

Quant Method : J:\ACQUDATA\M...\SOL1003.M (RTE Integrator)

Title : 8260voa

Last Update : Thu Oct 04 15:14:55 2007

Response via : Initial Calibration

DataAcq Meth : SOL1003

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.89	168	347384	50.00	ppb	-0.02
39) 1,4 - Difluorobenzene	12.24	114	609665	50.00	ppb	-0.02
58) d5 - Chlorobenzene	17.79	117	569076	50.00	ppb	-0.02
81) d4 - Dichlorobenzene	22.58	152	274847	50.00	ppb	-0.02

System Monitoring Compounds

40) surr4, Dibrflmethane	10.92	113	226724	46.51	ppb	-0.02
Spiked Amount	50.000		Recovery	=	93.02%	
44) surr1, 1,2-Dicethane	11.54	65	221249	44.79	ppb	-0.02
Spiked Amount	50.000		Recovery	=	89.58%	
64) surr3, Toluene-d8	14.97	98	710338	47.19	ppb	-0.02
Spiked Amount	50.000		Recovery	=	94.38%	
65) surr2, bfb	20.13	95	297241	45.80	ppb	-0.02
Spiked Amount	50.000		Recovery	=	91.60%	

Target Compounds

							Qvalue	
14) Acetone	7.22	7.20	43	2402	1.41	0.95	ppb	100 <
15) 2-Propanol		7.36	45	2500		3.24	ppb	# 16
21) Methylene Chloride		7.98	84	1673		0.34	ppb	# 50 <, RT (tent)
27) Vinyl Acetate		8.89	43	4736		0.51	ppb	# 92
35) Chloroform		10.62	83	2995		0.34	ppb	# 56 <
36) Tetrahydrofuran		10.64	42	11456		3.42	ppb	# 91 NT
80) Cyclohexanone		20.02	55	524		35.81	ppb	# 98
102) Naphthalen		28.09	128	7119		0.38	ppb	# 90 <

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

Q7789.D SOL1003.M Thu Oct 04 15:35:46 2007

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B STARS LIST
Reported: 10/15/07

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 1043050 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/04/07			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	5.0	5.0 U	UG/KG
N-BUTYLBENZENE	5.0	5.0 U	UG/KG
SEC-BUTYLBENZENE	5.0	5.0 U	UG/KG
TERT-BUTYLBENZENE	5.0	5.0 U	UG/KG
METHYL-TERT-BUTYL-ETHER	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
ISOPROPYL BENZENE	5.0	5.0 U	UG/KG
P-ISOPROPYLTOLUENE	5.0	5.0 U	UG/KG
NAPHTHALENE	5.0	5.0 U	UG/KG
N-PROPYLBENZENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,2,4-TRIMETHYLBENZENE	5.0	5.0 U	UG/KG
1,3,5-TRIMETHYLBENZENE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	92	%
TOLUENE-D8	(75 - 128 %)	94	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	93	%

Data File : J:\ACQUDATA\MSVOA7\DATA\100407\Q7785.D

Vial: 27

Acq On : 4 Oct 2007 10:17 am

Operator: K.Ruest

Sample : TUNE

Inst : GC/MS Ins

Misc :

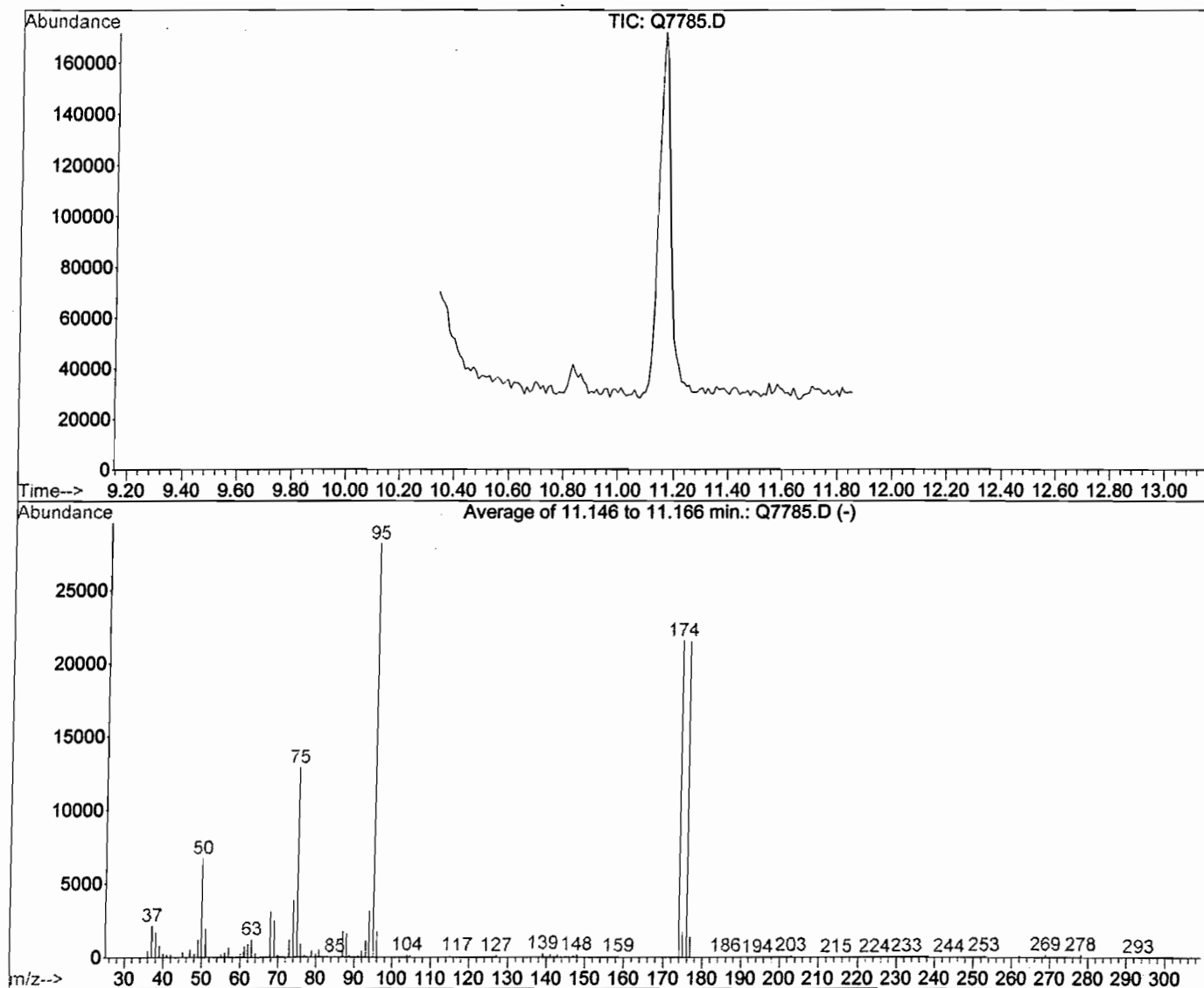
Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL1003.M (RTE Integrator)

Title : 8260voa

KR 10/4/07



AutoFind: Scans 83, 84, 85; Background Corrected with Scan 71

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	6723	PASS
75	95	30	60	45.6	12880	PASS
95	95	100	100	100.0	28216	PASS
96	95	5	9	6.1	1729	PASS
173	174	0.00	2	0.3	62	PASS
174	95	50	120	76.4	21557	PASS
175	174	5	9	7.9	1712	PASS
176	174	95	101	99.8	21509	PASS
177	176	5	9	6.4	1372	PASS

Data File : J:\ACQUDATA\MSVOA7\DATA\100307\Q7772.D

Vial: 27

Acq On : 3 Oct 2007 12:53 pm

Operator: K.Ruest

Sample : TUNE

Inst : GC/MS Ins

Misc :

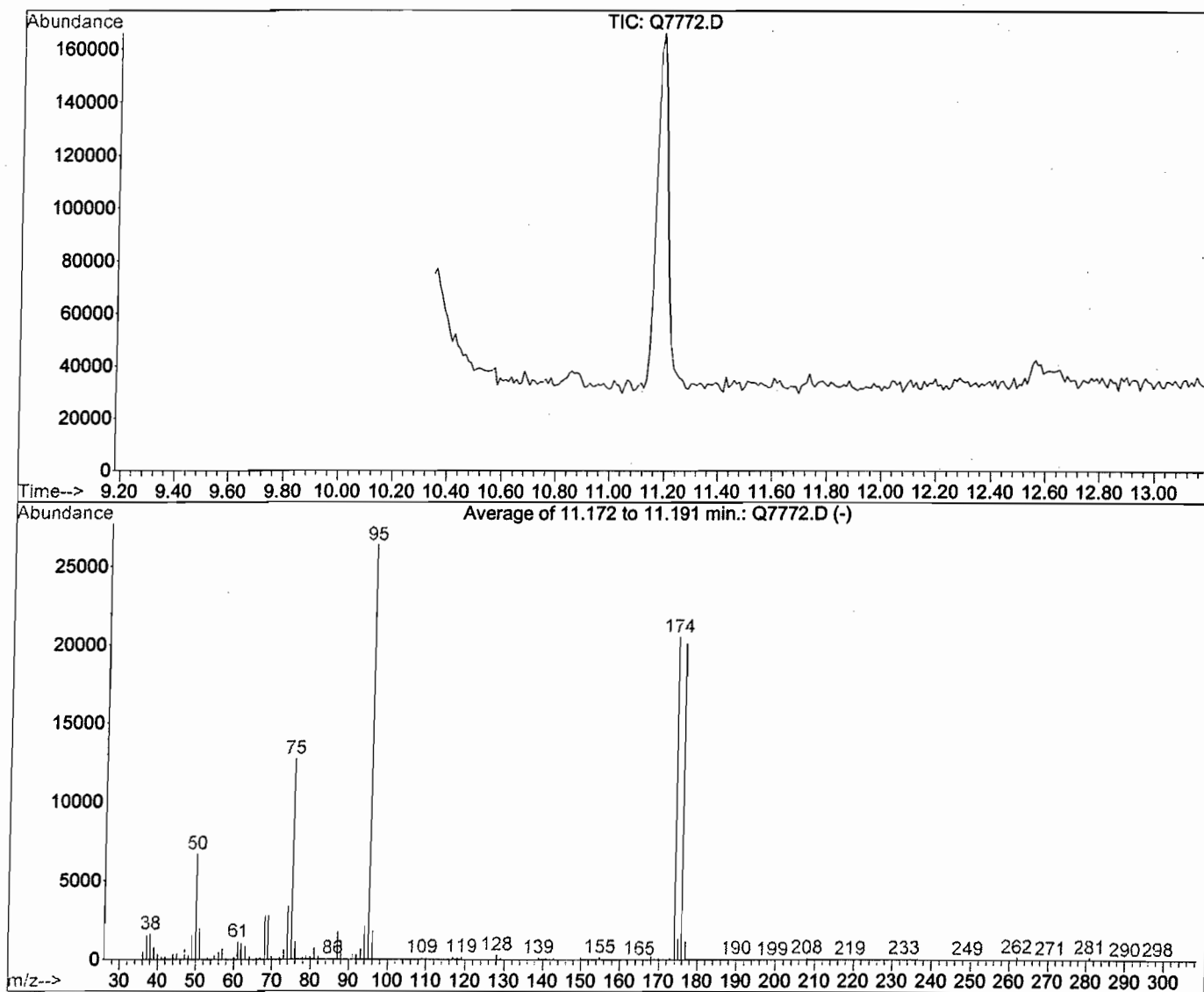
Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA7\METHODS\SOL0822.M (RTE Integrator)

Title : 8260voa

KR 10/3/07



AutoFind: Scans 85, 86, 87; Background Corrected with Scan 73

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	6711	PASS
75	95	30	60	48.2	12732	PASS
95	95	100	100	100.0	26423	PASS
96	95	5	9	6.7	1772	PASS
173	174	0.00	2	0.5	106	PASS
174	95	50	120	77.7	20541	PASS
175	174	5	9	6.4	1309	PASS
176	174	95	101	97.7	20077	PASS
177	176	5	9	5.7	1141	PASS

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 10/15/07

Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Client Sample ID : BC GRAB

Date Sampled : 09/28/07 12:05	Order #: 1041312	Sample Matrix: SOIL/SEDIMENT
Date Received: 09/28/07	Submission #: R2740056	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	87.4	%	10/08/07	10:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/15/07

Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Client Sample ID : BC COMP E

Date Sampled : 09/28/07 12:20	Order #: 1041314	Sample Matrix: SOIL/SEDIMENT
Date Received: 09/28/07	Submission #: R2740056	

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	85.2	%	10/08/07	10:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 10/15/07

Paradigm Environmental Service
Project Reference: LABELLA ASSOCIATES
Client Sample ID : BC COMP W

Date Sampled : 09/28/07 12:35
Date Received: 09/28/07

Order #: 1041315
Submission #: R2740056

Sample Matrix: SOIL/SEDIMENT

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.00	89.7	%	10/08/07	10:00	1.0

#: 151234

lyte: PERCENT SOL. 160.3M PERCENT SOLIDS

nted: 10/09/07 09:21

R40056
R40123
R40154
3 copies

E	SUBMISSION	ORDER #	MATRIX	REPORTED	DILUTION	PQL	% RECOVERY	% RSD	DATE	QC	PKG #
				RESULT					ANALYZED		
IS		1043863	SOIL/SEDIME	1.00	1.0	1.00			10/08/2007		
IP	R2740056	1041312	SOIL/SEDIME	87.4	1.0	1.00			10/08/2007	RUN	ASPB
IP	R2740056	1041314	SOIL/SEDIME	85.2	1.0	1.00			10/08/2007	RUN	ASPB
IP	R2740056	1041315	SOIL/SEDIME	89.7	1.0	1.00			10/08/2007	RUN	ASPB
IP	R2740123	1042364	SOIL/SEDIME	90.7	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042373	SOIL/SEDIME	88.4	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042383	SOIL/SEDIME	84.0	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042389	SOIL/SEDIME	77.7	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042390	SOIL/SEDIME	77.6	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042391	SOIL/SEDIME	75.8	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042392	SOIL/SEDIME	74.4	1.0	1.00			10/08/2007	RUN	ASPA
JP		1043864	SOIL/SEDIME	74.9	1.0	1.00		0.71	10/08/2007		
IP	R2740123	1042393	SOIL/SEDIME	80.9	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042394	SOIL/SEDIME	73.4	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042396	SOIL/SEDIME	83.0	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042400	SOIL/SEDIME	78.5	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042401	SOIL/SEDIME	74.2	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042402	SOIL/SEDIME	79.9	1.0	1.00			10/08/2007	RUN	ASPA
IP	R2740123	1042403	SOIL/SEDIME	50.1	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042404	SOIL/SEDIME	82.1	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042405	SOIL/SEDIME	90.8	1.0	1.00			10/08/2007	RUN	ASPA
UP		1043865	SOIL/SEDIME	91.6	1.0	1.00		0.93	10/08/2007		
MP	R2740123	1042406	SOIL/SEDIME	77.6	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042407	SOIL/SEDIME	79.2	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042409	SOIL/SEDIME	86.2	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042410	SOIL/SEDIME	88.8	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042411	SOIL/SEDIME	85.6	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042412	SOIL/SEDIME	81.7	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740123	1042413	SOIL/SEDIME	80.8	1.0	1.00			10/08/2007	RUN	ASPA
MP	R2740154	1043024	SOIL/SEDIME	91.4	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043027	SOIL/SEDIME	80.3	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043028	SOIL/SEDIME	85.4	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043029	SOIL/SEDIME	85.1	1.0	1.00			10/08/2007		ASP-A
UP		1043866	SOIL/SEDIME	86.3	1.0	1.00		1.44	10/08/2007		
MP	R2740154	1043030	SOIL/SEDIME	80.5	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043031	SOIL/SEDIME	88.2	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043032	SOIL/SEDIME	91.0	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043033	SOIL/SEDIME	88.6	1.0	1.00			10/08/2007	QC	ASP-A
UP		1043867	SOIL/SEDIME	88.7	1.0	1.00		0.13	10/08/2007		
MP	R2740154	1043034	SOIL/SEDIME	90.4	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043035	SOIL/SEDIME	89.5	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043036	SOIL/SEDIME	86.6	1.0	1.00			10/08/2007		ASP-A
MP	R2740154	1043038	SOIL/SEDIME	88.3	1.0	1.00			10/08/2007		ASP-A

records printed: 43

Reviewed & Approved

By: 

Date: 10/9/07

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SOLIDS REPORT

#: 151234 ANALYSIS DATE: 10/08/2007 ASSIGNED TO :

PLATE: DWPS

IST :

#	ORDER #	SUBMISSION	CONTROL		GROSS (g)	TARE (g)	DIFF (g)	% SOLID	DISH ID	LS	LS
			TYPE							JOB#	LOC#
1	1043863	R27 0	MBLK		(1.3000-1.3000)=0.0000			DRY*100 = 1.00	1		
					(1.3000-1.3000)=0.0000			WET	✓		
2	1041312	R2740056	ESMP		(11.2900-1.3300)=9.9600			DRY*100 = 87.40	2		
					(12.7200-1.3300)=11.3900			WET	✓		
3	1041314	R2740056	ESMP		(11.3800-1.3200)=10.0600			DRY*100 = 85.20	3		
					(13.1300-1.3200)=11.8100			WET	✓		
4	1041315	R2740056	ESMP		(11.3100-1.2900)=10.0200			DRY*100 = 89.70	4		
					(12.4600-1.2900)=11.1700			WET	✓		
5	1042364	R2740123	ESMP		(10.9900-1.3100)=9.6800			DRY*100 = 90.70	5		
					(11.9800-1.3100)=10.6700			WET	✓		
6	1042373	R2740123	ESMP		(11.6000-1.2900)=10.3100			DRY*100 = 88.40	6		
					(12.9500-1.2900)=11.6600			WET	✓		
7	1042383	R2740123	ESMP		(10.2900-1.2800)=9.0100			DRY*100 = 84.00	7		
					(12.0000-1.2800)=10.7200			WET	✓		
8	1042389	R2740123	ESMP		(11.6000-1.2900)=10.3100			DRY*100 = 77.70	8		
					(14.5600-1.2900)=13.2700			WET	✓		
9	1042390	R2740123	ESMP		(9.5500-1.2900)=8.2600			DRY*100 = 77.60	9		
					(11.9400-1.2900)=10.6500			WET	✓		
10	1042391	R2740123	ESMP		(10.9600-1.3100)=9.6500			DRY*100 = 75.80	10		
					(14.0400-1.3100)=12.7300			WET	✓		
1	1042392	R2740123	ESMP		(9.5800-1.3200)=8.2600			DRY*100 = 74.40	11		
					(12.4200-1.3200)=11.1000			WET	✓		
2	1043864	R27 0	DUPE		(9.1100-1.2800)=7.8300			DRY*100 = 74.90	12		
					(11.7300-1.2800)=10.4500			WET	✓		
13	1042393	R2740123	ESMP		(12.1400-1.2800)=10.8600			DRY*100 = 80.90	14		
					(14.7100-1.2800)=13.4300			WET	✓		
4	1042394	R2740123	ESMP		(9.5800-1.3100)=8.2700			DRY*100 = 73.40	15		
					(12.5800-1.3100)=11.2700			WET	✓		
15	1042396	R2740123	ESMP		(10.4400-1.2800)=9.1600			DRY*100 = 83.00	16		
					(12.3200-1.2800)=11.0400			WET	✓		
6	1042400	R2740123	ESMP		(10.6500-1.2800)=9.3700			DRY*100 = 78.50	17		
					(13.2200-1.2800)=11.9400			WET	✓		
7	1042401	R2740123	ESMP		(9.5900-1.2900)=8.3000			DRY*100 = 74.20	18		
					(12.4700-1.2900)=11.1800			WET	✓		
18	1042402	R2740123	ESMP		(10.4900-1.2700)=9.2200			DRY*100 = 79.90	19		
					(12.8100-1.2700)=11.5400			WET	✓		
9	1042403	R2740123	ESMP		(6.5500-1.2900)=5.2600			DRY*100 = 50.10	20		
					(11.7800-1.2900)=10.4900			WET	✓		
20	1042404	R2740123	ESMP		(10.5600-1.3000)=9.2600			DRY*100 = 82.10	21		
					(12.5800-1.3000)=11.2800			WET	✓		
1	1042405	R2740123	ESMP		(11.6700-1.2700)=10.4000			DRY*100 = 90.80	22		
					(12.7300-1.2700)=11.4600			WET	✓		
2	1043865	R27 0	DUPE		(11.6200-1.3000)=10.3200			DRY*100 = 91.60	24		
					(12.5600-1.3000)=11.2600			WET	✓		
23	1042406	R2740123	ESMP		(9.8900-1.2800)=8.6100			DRY*100 = 77.60	23		
					(12.3800-1.2800)=11.1000			WET	✓		
4	1042407	R2740123	ESMP		(10.1200-1.3100)=8.8100			DRY*100 = 79.20	26		
					(12.4300-1.3100)=11.1200			WET	✓		
25	1042409	R2740123	ESMP		(10.2300-1.2700)=8.9600			DRY*100 = 86.20	27		
					(11.6600-1.2700)=10.3900			WET	✓		

SOLIDS REPORT

N #: 151234 ANALYSIS DATE: 10/08/2007 ASSIGNED TO :

WPLATE: DWPS

ST :

P#	ORDER #	SUBMISSION	CONTROL			% SOLID	DISH ID	LS JOB#	LS LOC#
			TYPE	GROSS(g)	TARE(g)				
26	1042410	R2740123	ESMP	(11.8800-1.2900)=10.5900		DRY*100 = 88.80	28 ✓		
				(13.2200-1.2900)=11.9300		WET			
27	1042411	R2740123	ESMP	(11.5300-1.2800)=10.2500		DRY*100 = 85.60	29 ✓		
				(13.2600-1.2800)=11.9800		WET			
28	1042412	R2740123	ESMP	(10.7400-1.3000)=9.4400		DRY*100 = 81.70	30 ✓		
				(12.8600-1.3000)=11.5600		WET			
29	1042413	R2740123	ESMP	(10.2400-1.2900)=8.9500		DRY*100 = 80.80	31 ✓		
				(12.3600-1.2900)=11.0700		WET			
30	1043024	R2740154	ESMP	(11.7800-1.2900)=10.4900		DRY*100 = 91.40	32 ✓		
				(12.7600-1.2900)=11.4700		WET			
31	1043027	R2740154	ESMP	(10.0100-1.2900)=8.7200		DRY*100 = 80.30	33 ✓		
				(12.1500-1.2900)=10.8600		WET			
32	1043028	R2740154	ESMP	(12.3700-1.3300)=11.0400		DRY*100 = 85.40	34 ✓		
				(14.2600-1.3300)=12.9300		WET			
33	1043029	R2740154	ESMP	(10.4800-1.3300)=9.1500		DRY*100 = 85.10	35 ✓		
				(12.0800-1.3300)=10.7500		WET			
34	1043866	R27 0	DUPE	(11.4400-1.3300)=10.1100		DRY*100 = 86.30	36 ✓		
				(13.0400-1.3300)=11.7100		WET			
35	1043030	R2740154	ESMP	(11.2200-1.2900)=9.9300		DRY*100 = 80.50	38 ✓		
				(13.6300-1.2900)=12.3400		WET			
36	1043031	R2740154	ESMP	(13.5000-1.2800)=12.2200		DRY*100 = 88.20	39 ✓		
				(15.1300-1.2800)=13.8500		WET			
37	1043032	R2740154	ESMP	(11.7000-1.3000)=10.4000		DRY*100 = 91.00	40 ✓		
				(12.7300-1.3000)=11.4300		WET			
38	1043033	R2740154	ESMP	(11.1300-1.3000)=9.8300		DRY*100 = 88.60	41 ✓		
				(12.3900-1.3000)=11.0900		WET			
39	1043867	R27 0	DUPE	(12.3200-1.3100)=11.0100		DRY*100 = 88.70	42 ✓		
				(13.7200-1.3100)=12.4100		WET			
40	1043034	R2740154	ESMP	(12.7400-1.3000)=11.4400		DRY*100 = 90.40	43 ✓		
				(13.9600-1.3000)=12.6600		WET			
41	1043035	R2740154	ESMP	(10.9900-1.2900)=9.7000		DRY*100 = 89.50	44 ✓		
				(12.1300-1.2900)=10.8400		WET			
42	1043036	R2740154	ESMP	(11.0200-1.2800)=9.7400		DRY*100 = 86.60	45 ✓		
				(12.5200-1.2800)=11.2400		WET			
43	1043038	R2740154	ESMP	(10.9500-1.3200)=9.6300		DRY*100 = 88.30	46 ✓		
				(12.2300-1.3200)=10.9100		WET			

analyst: RL

a. e: 10/8/07 Time: 1000 "S" weight initial: 10g ± 0.00 final: 10g ± 0.00

Order #	Submission #	Dish I.D.	Wet Weight (g)	Dry Weight (g)	Percent Solid
	MB	1	1.30	Gross 1.30 Tare Diff.	
41312	40054	2	12.72 1.33	Gross 11.29 Tare Diff.	
314		3	13.13 1.32	Gross 11.38 Tare Diff.	
315		4	12.46 1.29	Gross 11.31 Tare Diff.	
42364	40123	5	11.98 10.98 1.31	Gross 10.99 Tare Diff.	
373		6	12.95 1.29	Gross 11.60 Tare Diff.	
383		7	12.00 1.28	Gross 10.29 Tare Diff.	
389		8	14.56 1.29	Gross 11.60 Tare Diff.	

(2)

Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: RP

Date: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)	Dry Weight (g)	Percent Solid
542390		9	11.94	Gross 9.55	
			1.29	Tare	
				Diff.	
391		10	14.04	Gross 10.96	
			1.31	Tare	
				Diff.	
392		11	12.42	Gross 9.58	
			1.32	Tare	
				Diff.	
042392		12	11.73	Gross 9.11	
			1.28	Tare	
				Diff.	
Dup				Gross 1.27	
	MB	13	1.28	Tare	
				Diff.	
12393			14.71	Gross 12.14	
		14	1.28	Tare	
				Diff.	
394			12.58	Gross 9.58	
		15	1.31	Tare	
				Diff.	
396			12.32	Gross 10.44	
		16	1.28	Tare	
				Diff.	

(3)

Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: RPe: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
342400		17	13.22	Gross	10.65	
			1.28	Tare		
				Diff.		
401		18	12.47	Gross	9.59	
			1.29	Tare		
				Diff.		
402		19	12.81	Gross	10.49	
			1.27	Tare		
				Diff.		
403		20	11.78	Gross	6.55	
			1.29	Tare		
				Diff.		
404		21	12.58	Gross	10.56	
			1.30	Tare		
				Diff.		
405		22	12.73	Gross	11.67	
			1.27	Tare		
				Diff.		
✓ 406		23	12.38	Gross	9.89	
			1.28	Tare		
				Diff.		
12405		24	12.56	Gross	11.62	
			1.30	Tare		
				Diff.		

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Dup

ry Weight Percent Solids

analyst: RP

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

ate: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)	Dry Weight (g)	Percent Solid
				Gross 1.31	
	MB	25	1.30	Tare	
				Diff.	
242407			12.43	Gross 10.12	
		26	1.31	Tare	
				Diff.	
409			11.66	Gross 10.23	
		27	1.27	Tare	
				Diff.	
410			13.22	Gross 11.88	
		28	1.29	Tare	
				Diff.	
411			13.26	Gross 11.53	
		29	1.28	Tare	
				Diff.	
412			12.86	Gross 10.74	
		30	1.30	Tare	
				Diff.	
V 413			12.36	Gross 10.24	
		31	1.29	Tare	
				Diff.	
13024	40154		12.76	Gross 11.78	
		32	1.29	Tare	
				Diff.	

5

Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: RP

Date: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
43027		33	12.15	Gross	10.01	
			1.29	Tare		
				Diff.		
028		34	14.26	Gross	12.37	
			1.33	Tare		
				Diff.		
029		35	12.08	Gross	10.48	
			1.33	Tare		
				Diff.		
43029		36	13.04	Gross	11.47	
			1.33	Tare		
				Diff.		
DUP				Gross	1.28	
	MB	37	1.28	Tare		
				Diff.		
43030		38	13.63	Gross	11.22	
			1.29	Tare		
				Diff.		
031		39	15.13	Gross	13.50	
			1.28	Tare		
				Diff.		
032		40	12.73	Gross	11.70	
			1.30	Tare		128
				Diff.		

ry Weight Percent Solids

analyst: RIP

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

ate: 10/8/07 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission #	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
043033		41	12.39	Gross	11.13	
			1.30	Tare		
				Diff.		
033		42	13.72	Gross	12.32	
			1.31	Tare		
				Diff.		
PUP						
034		43	13.96	Gross	12.74	
			1.30	Tare		
				Diff.		
035		44	12.13	Gross	10.99	
			1.29	Tare		
				Diff.		
036		45	12.52	Gross	11.02	
			1.28	Tare		
				Diff.		
038		46	12.23	Gross	10.95	
			1.32	Tare		
				Diff.		
				Gross	1.29	
	MB	47	1.30	Tare		
				Diff.		
				Gross		
				Tare		
				Diff.		

**Remedial Excavation
Groundwater Analytical Data Report**



A FULL SERVICE ENVIRONMENTAL LABORATORY

May 3, 2005

Mr. Gary Stern
Stern Properties
274 North Goodman Street
Rochester, NY 14607

PROJECT:GOODMAN SITE
Submission #:R2525857

Dear Mr. Stern:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 05/02/05 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (585) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

A handwritten signature in cursive script, appearing to read 'Amy Hentschke', is written over the typed name.

Amy Hentschke
Project Chemist

Enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Stern Properties
Project Reference: GOODMAN SITE
Lab Submission # : R2525857
Project Manager : Amy Hentschke
Reported : 05/03/05

Report Contains a total of 11 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael E. Perry*



CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2525857

Lab ID

808437

808439

Client ID

GOODMAN SITE

GOODMAN/320

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 625 PPL SEMIVOLATILES
Reported: 05/03/05

Stern Properties

Project Reference: GOODMAN SITE

Client Sample ID : GOODMAN SITE

Date Sampled : 04/25/05 12:10 Order #: 808437 Sample Matrix: WATER
Date Received: 04/25/05 Submission #: R2525857 Analytical Run 115553

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 04/28/05			
DATE ANALYZED : 04/30/05			
ANALYTICAL DILUTION: 0.96			
ACENAPHTHENE	5.0	4.8 U	UG/L
ACENAPHTHYLENE	5.0	4.8 U	UG/L
ANTHRACENE	5.0	4.8 U	UG/L
BENZIDINE	100	96 U	UG/L
BENZO (A) ANTHRACENE	5.0	4.8 U	UG/L
BENZO (A) PYRENE	5.0	4.8 U	UG/L
BENZO (B) FLUORANTHENE	5.0	4.8 U	UG/L
BENZO (G, H, I) PERYLENE	5.0	4.8 U	UG/L
BENZO (K) FLUORANTHENE	5.0	4.8 U	UG/L
BUTYL BENZYL PHTHALATE	5.0	4.8 U	UG/L
DI-N-BUTYLPHthalate	5.0	4.8 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	5.0	4.8 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	5.0	4.8 U	UG/L
BIS (2-CHLOROETHYL) ETHER	5.0	4.8 U	UG/L
2-CHLORONAPHTHALENE	5.0	4.8 U	UG/L
2-CHLOROPHENOL	5.0	4.8 U	UG/L
2, 2' -OXYBIS (1-CHLOROPROPANE)	5.0	4.8 U	UG/L
CHRYSENE	5.0	4.8 U	UG/L
DIBENZO (A, H) ANTHRACENE	5.0	4.8 U	UG/L
1, 3-DICHLOROBENZENE	5.0	4.8 U	UG/L
1, 2-DICHLOROBENZENE	5.0	4.8 U	UG/L
1, 4-DICHLOROBENZENE	5.0	4.8 U	UG/L
3, 3' -DICHLOROBENZIDINE	5.0	4.8 U	UG/L
2, 4-DICHLOROPHENOL	5.0	4.8 U	UG/L
DIETHYLPHthalate	5.0	4.8 U	UG/L
DIMETHYL PHTHALATE	5.0	4.8 U	UG/L
2, 4-DIMETHYLPHENOL	5.0	4.8 U	UG/L
2, 4-DINITROPHENOL	50	48 U	UG/L
2, 4-DINITROTOLUENE	5.0	4.8 U	UG/L
2, 6-DINITROTOLUENE	5.0	4.8 U	UG/L
1, 2-DIPHENYLHYDRAZINE	5.0	4.8 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	5.0	38	UG/L
FLUORANTHENE	5.0	4.8 U	UG/L
FLUORENE	5.0	4.8 U	UG/L
HEXACHLOROBENZENE	5.0	4.8 U	UG/L
HEXACHLOROBUTADIENE	5.0	4.8 U	UG/L
HEXACHLOROCYCLOPENTADIENE	5.0	4.8 U	UG/L
HEXACHLOROETHANE	5.0	4.8 U	UG/L
ISOPHORONE	5.0	4.8 U	UG/L
4, 6-DINITRO-2-METHYLPHENOL	50	48 U	UG/L
4-CHLORO-3-METHYLPHENOL	5.0	4.8 U	UG/L
NAPHTHALENE	5.0	4.8 U	UG/L
NITROBENZENE	5.0	4.8 U	UG/L

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 625 PPL SEMIVOLATILES
Reported: 05/03/05

Stern Properties

Project Reference: GOODMAN SITE

Client Sample ID : GOODMAN SITE

Date Sampled : 04/25/05 12:10 Order #: 808437 Sample Matrix: WATER
Date Received: 04/25/05 Submission #: R2525857 Analytical Run 115553

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 04/28/05			
DATE ANALYZED : 04/30/05			
ANALYTICAL DILUTION: 0.96			
2-NITROPHENOL	5.0	4.8 U	UG/L
4-NITROPHENOL	50	48 U	UG/L
N-NITROSODIMETHYLAMINE	5.0	4.8 U	UG/L
N-NITROSODIPHENYLAMINE	5.0	4.8 U	UG/L
DI-N-OCTYL PHTHALATE	5.0	4.8 U	UG/L
PENTACHLOROPHENOL	50	48 U	UG/L
PHENANTHRENE	5.0	4.8 U	UG/L
PHENOL	5.0	4.8 U	UG/L
4-BROMOPHENYL-PHENYLEETHER	5.0	4.8 U	UG/L
4-CHLOROPHENYL-PHENYLEETHER	5.0	4.8 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	5.0	4.8 U	UG/L
PYRENE	5.0	4.8 U	UG/L
1,2,4-TRICHLOROBENZENE	5.0	4.8 U	UG/L
2,4,6-TRICHLOROPHENOL	5.0	4.8 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(49 - 133 %)	84	%
NITROBENZENE-d5	(36 - 105 %)	99	%
PHENOL-d6	(10 - 55 %)	37	%
2-FLUOROBIPHENYL	(36 - 99 %)	88	%
2-FLUOROPHENOL	(19 - 72 %)	51	%
2,4,6-TRIBROMOPHENOL	(20 - 160 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 602 BTEX+MTBE
Reported: 05/03/05

Stern Properties

Project Reference: GOODMAN SITE

Client Sample ID : GOODMAN/320

Date Sampled : 04/25/05 12:10 Order #: 808439 Sample Matrix: WATER
Date Received: 04/25/05 Submission #: R2525857 Analytical Run 115549

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/27/05			
ANALYTICAL DILUTION: 100.00			
BENZENE	1.0	100 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	100 U	UG/L
ETHYLBENZENE	1.0	100 U	UG/L
TOLUENE	1.0	8600	UG/L
M+P-XYLENE	2.0	1300	UG/L
O-XYLENE	1.0	280	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
CHLOROFLUOROBENZENE (PID)	(68 - 114 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 602 BTEX+MTBE

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 810387

ANALYTICAL RUN # : 115549

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 4/27/05			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	101	39 - 150
METHYL-TERT-BUTYL ETHER	20.0	102	70 - 130
ETHYLBENZENE	20.0	98	32 - 160
TOLUENE	20.0	101	46 - 148
M+P-XYLENE	40.0	94	70 - 130
O-XYLENE	20.0	91	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 602 BTEX+MTBE

Reported: 05/03/05

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 810386	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 115549

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/27/05			
ANALYTICAL DILUTION: 1.00			
BENZENE	1.0	1.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
M+P-XYLENE	2.0	2.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
CHLOROFLUOROBENZENE (PID)	(68 - 114 %)	89	%

[illegible]

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Cooler Receipt And Preservation Check Form

Project/Client Goodman Stern Submission Number _____

Cooler received on 4/25/05 by am COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 14

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 4/25/05 1445

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: _____ by: _____

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments: _____



CHAIN OF CUSTODY/LABORATORY ANALYSIS/REGULATORY

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475

PAGE 1

OF 1

CAS Contact M. Wilson

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager		Report CC		PRESERVATIVE															
Company Address		Stein Properties		NUMBER OF CONTAINERS															
Phone #		FAX#		SAMPLING DATE		TIME		MATRIX											
Sampler's Signature		Sampler's Printed Name		FOR OFFICE USE ONLY		LAB ID		808439											
CLIENT SAMPLE ID		Goodman / 320		DATE		4/28/05		12:10		water									
SPECIAL INSTRUCTIONS/COMMENTS		Metals		TURNAROUND REQUIREMENTS		RUSH (SURCHARGES APPLY)		24 hr 48 hr 5 day		STANDARD		REQUESTED FAX DATE		REQUESTED REPORT DATE		REPORT REQUIREMENTS		INVOICE INFORMATION	
PO#		BILL TO:		I. Results Only		II. Results + QC Summaries (LCS, DUP, MS/MSD as required)		III. Results + QC and Calibration Summaries		IV. Data Validation Report with Raw Data		V. Specialized Forms / Custom Report		Edata Yes No		SUBMISSION #		R 2525857	
RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY	
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
4-25-05 12:36		4/25/05 12:35		4/25/05 12:35		4/25/05 12:35		4/25/05 12:35		4/25/05 12:35		4/25/05 12:35		4/25/05 12:35		4/25/05 12:35		4/25/05 12:35	

Cooler Receipt And Preservation Check Form

Project/Client Stern Properties Submission Number 22525857

Cooler received on 4/25/05 by: cmk COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO *notests later*
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? 110 CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 110

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 4/25/05 1240

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 4/25/05 by: cmk

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

**Remedial Excavation
Confirmatory Soil Samples
and
Backfill Characterization Samples
Analytical Data Reports**

September 28, 2007

Mr. Gary Stern
Stern Properties
274 North Goodman Street
Rochester, NY 14607

Received By
LaBella Associates, P.C.

OCT 01 2007

Client: _____
Proj.#: _____

Re: Soil Removal 320 N. Goodman Project# 041105
Submission #R2525809

Dear Mr. Stern:

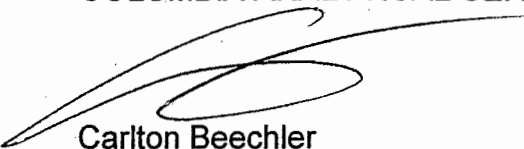
Enclosed is an analytical data report for the above referenced project. A total of four soil samples were received by our laboratory on April 21, 2005.

This project was originally submitted to our lab and reported to you as a Package I (Results Only). Per request of Craig Stiles of LaBella Associates, a Package IV (ASP-B Validatable Report) is now needed. The Package IV report is enclosed.

Any problems encountered with this project are addressed in a case narrative section, which is presented later in this report.

All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Sincerely,
COLUMBIA ANALYTICAL SERVICES



Carlton Beechler
Project Chemist

CC Mr. Craig Stiles
LaBella Associates
300 State St. Suite 201
Rochester, NY 14614

enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Stern Properties
Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105
Lab Submission # : R2525809
Project Manager : Carlton Beechler
Reported : 05/04/05

Report Contains a total of 120 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K Perry*

SDG NARRATIVE

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Stern Properties
Project: Soil Removal 320 N Goodman
Sample Matrix: Soil

Service Request No.: R2525809
Date Received: 4/21/2005

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV, CLP deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Four soil samples were received for analysis at Columbia Analytical Services on 4/21/2005. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Chemistry Parameters

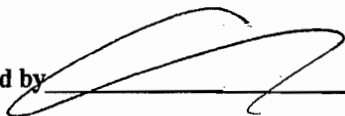
No analytical or quality control problems were encountered during analysis.

Volatile Organic Compounds by EPA Method 8021B

No analytical or quality control problems were encountered during analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:

Approved by



Date

9/28/07



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P".
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

5 CP 9/27/14
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INORGANIC QUALIFIERS

C (Concentration) qualifier -

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- † - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

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4

CHAINS OF CUSTODY

Project Name <u>Sullivan Property</u>		Project Number <u>091105</u>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																							
Project Manager <u>John J. Sullivan</u>		Report CC <u>091105</u>																																									
Company/Address <u>Sullivan Properties</u>																																											
<u>274 North Goodman Street</u>																																											
<u>Rochester, New York</u>																																											
Phone # <u>(585) 442-0961</u>		FAX # _____																																									
Sampler's Signature <u>[Signature]</u>		Sampler's Printed Name <u>Stephen J. DeMeo</u>																																									
FOR OFFICE USE ONLY		LAB ID		SAMPLING DATE		SAMPLING TIME		MATRIX		NUMBER OF CONTAINERS		PRESERVATIVE																															
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE		SAMPLING TIME		MATRIX		NUMBER OF CONTAINERS		PRESERVATIVE																															
<u>SWNWEX.8(8.0-8.5 ft.)</u>		<u>807470</u>		<u>4/20/05</u>		<u>1339</u>		<u>Soil</u>		<u>2</u>		<u>GC/MS VOAS</u>																															
<u>SWWEX.8(7.0-7.5 ft.)</u>		<u>807471</u>		<u>4/20/05</u>		<u>1350</u>		<u>Soil</u>		<u>2</u>		<u>GC/MS VOAS</u>																															
<u>SWNEX.8(12.0-12.5 ft.)</u>		<u>807472</u>		<u>4/20/05</u>		<u>1355</u>		<u>Soil</u>		<u>2</u>		<u>GC/MS VOAS</u>																															
<u>SWSEX.8(9.0-9.5 ft.)</u>		<u>807473</u>		<u>4/20/05</u>		<u>1345</u>		<u>Soil</u>		<u>2</u>		<u>GC/MS VOAS</u>																															
SPECIAL INSTRUCTIONS/COMMENTS Metals														TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr _____ 48 hr _____ 5 day _____ STANDARD REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____										REPORT REQUIREMENTS ☒ I. Results Only ☐ II. Results + QC Summaries (LCS, DUP, MSMSD as required) ☐ III. Results + QC and Calibration Summaries ☐ IV. Data Validation Report with Raw Data ☐ V. Specialized Forms / Custom Report Edita _____ Yes _____ No _____										INVOICE INFORMATION PO# _____ BILL TO: _____ SUBMISSION # <u>R2525809</u> RECEIVED BY _____									
SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ RELINQUISHED BY _____ Signature _____ Printed Name _____ Firm _____ Date/Time _____														CUSTODY SEALS: Y N RELINQUISHED BY _____ Signature _____ Printed Name _____ Firm _____ Date/Time _____										RELINQUISHED BY _____ Signature _____ Printed Name _____ Firm _____ Date/Time _____																			

Cooler Receipt And Preservation Check Form

Project/Client Stem Submission Number R25-25809

Cooler received on 4/21/05 by: am COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 8

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 4/21/05 900

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 4/21/05 by: am

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH _____

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

180
9/27/07

VOLATILE ORGANICS

QC SUMMARY

COLUMBIA ANALYTICAL SERVICES

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 807473 Stern Properties

Client ID: SWSEX.8 (9.0-9.5FT)

Test: 8021B STARS LIST VOAS

Analytical Units: UG/KG

Run Number : 115613

Percent Solid : 83.7

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
BENZENE	59.7	0	51.4	86	52.6	88	2	30	70 - 130	
SEC-BUTYLBENZENE	59.7	0	47.8	80	52.6	88	10	30	70 - 130	
TERT-BUTYLBENZENE	59.7	0	51.4	86	55.0	92	7	30	70 - 130	
N-BUTYLBENZENE	59.7	0	46.6	78	50.2	84	7	30	70 - 130	
METHYL-TERT-BUTYLETHER	59.7	0	53.8	90	58.5	98	8	30	70 - 130	
ETHYLBENZENE	59.7	0	51.4	86	55.0	92	7	30	70 - 130	
ISOPROPYLBENZENE	59.7	0	51.4	86	55.0	92	7	30	70 - 130	
P-ISOPROPYLTOLUENE	59.7	0	49.0	82	53.8	90	9	30	70 - 130	
NAPHTHALENE	59.7	0	43.0	72	49.0	82	13	30	70 - 130	
N-PROPYLBENZENE	59.7	0	50.2	84	53.8	90	7	30	70 - 130	
TOLUENE	59.7	0	51.4	86	53.8	90	5	30	70 - 130	
1,2,4-TRIMETHYLBENZENE	59.7	0	50.2	84	53.8	90	7	30	70 - 130	
1,3,5-TRIMETHYLBENZENE	59.7	0	51.4	86	55.0	92	7	30	70 - 130	
O-XYLENE	59.7	0	51.4	86	55.0	92	7	30	70 - 130	
M+P-XYLENE	119	0	103	87	110	92	7	30	70 - 130	

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8021B STARS LIST VOAS

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 810652

ANALYTICAL RUN # : 115604

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED	: 4/22/05		
ANALYTICAL DILUTION:	1.0		
BENZENE	20.0	94	70 - 130
SEC-BUTYLBENZENE	20.0	96	70 - 130
TERT-BUTYLBENZENE	20.0	97	70 - 130
N-BUTYLBENZENE	20.0	99	70 - 130
METHYL-TERT-BUTYLETHER	20.0	110	70 - 130
ETHYLBENZENE	20.0	98	32 - 160
ISOPROPYLBENZENE	20.0	89	70 - 130
P-ISOPROPYLTOLUENE	20.0	96	70 - 130
NAPHTHALENE	20.0	92	70 - 130
N-PROPYLBENZENE	20.0	96	70 - 130
TOLUENE	20.0	97	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	99	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	98	70 - 130
O-XYLENE	20.0	79	70 - 130
M+P-XYLENE	40.0	97	70 - 130

CP 9/27/07
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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8021B STARS LIST VOAS

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 810714

ANALYTICAL RUN #: 115613

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 4/28/05			
ANALYTICAL DILUTION: 1.0			
BENZENE	20.0	99	70 - 130
SEC-BUTYLBENZENE	20.0	104	70 - 130
TERT-BUTYLBENZENE	20.0	106	70 - 130
N-BUTYLBENZENE	20.0	108	70 - 130
METHYL-TERT-BUTYLETHER	20.0	108	70 - 130
ETHYLBENZENE	20.0	104	32 - 160
ISOPROPYLBENZENE	20.0	96	70 - 130
P-ISOPROPYLTOLUENE	20.0	103	70 - 130
NAPHTHALENE	20.0	96	70 - 130
N-PROPYLBENZENE	20.0	104	70 - 130
TOLUENE	20.0	103	70 - 130
1,2,4-TRIMETHYLBENZENE	20.0	105	70 - 130
1,3,5-TRIMETHYLBENZENE	20.0	104	70 - 130
O-XYLENE	20.0	85	70 - 130
M+P-XYLENE	40.0	103	70 - 130

CP 9/27/07
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COLUMBIA ANALYTICAL SERVICES

1 Mustard St., Rochester, N.Y
(716) 288-5380

Analysis: 8021B.TLSW SOILS
Inst I.D.: HP1

INIT. CALIBRATION DATE : 03/16/05

METHOD BLANK SUMMARY

DATE: 04/22/05
TIME: 13:36
BLK ORDER#: 810651

ANALYSIS DATE	TIME	SUB. # / ORDER#
04/23/05	00:28	CCV #1
04/22/05	14:37	REF CHK
04/23/05	04:44	R25-25809 807470
04/23/05	05:35	R25-25809 807471

COLUMBIA ANALYTICAL SERVICES

1 Mustard St., Rochester, N.Y
(716) 288-5380

Analysis: 8021B.TLSW SOILS
Inst I.D.: HP1

INIT. CALIBRATION DATE : 03/16/05

METHOD BLANK SUMMARY

DATE: 04/28/05

TIME: 13:42

BLK ORDER#: 810713

ANALYSIS DATE	TIME	SUB. # / ORDER#
04/28/05	12:23	CCV #1
04/28/05	14:48	REF CHK
04/28/05	17:53	R25-25809 807472
04/28/05	18:44	R25-25809 807473
04/28/05	19:35	R25-25809 807473 MS
04/28/05	20:26	R25-25809 807473 MSD

VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWNWEX.8 (8.0-8.5FT)

Date Sampled : 04/20/05 13:39 Order #: 807470 Sample Matrix: SOIL/SEDIMENT
Date Received: 04/21/05 Submission #: R2525809 Percent Solid: 88.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/23/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	1.1 U	UG/KG
SEC-BUTYLBENZENE	1.0	1.1 U	UG/KG
TERT-BUTYLBENZENE	1.0	1.1 U	UG/KG
N-BUTYLBENZENE	1.0	1.1 U	UG/KG
METHYL-TERT-BUTYLETHER	1.0	1.1 U	UG/KG
ETHYLBENZENE	1.0	1.1 U	UG/KG
ISOPROPYLBENZENE	1.0	1.1 U	UG/KG
P-ISOPROPYLTOLUENE	1.0	1.1 U	UG/KG
NAPHTHALENE	1.0	1.1 U	UG/KG
N-PROPYLBENZENE	1.0	1.1 U	UG/KG
TOLUENE	1.0	1.1 U	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	1.1 U	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	1.1 U	UG/KG
O-XYLENE	2.0	2.3 U	UG/KG
M+P-XYLENE	2.0	2.3 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

CHLOROFLUOROBENZENE	(39 - 136 %)	86	%
---------------------	--------------	----	---

CP 9/21/07
817

File : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\042205\1018.run
Method File : J:\ACQDATA\HP1\METHODS\Hp10316s.mth
Sample ID : 807471 1 ST R25809

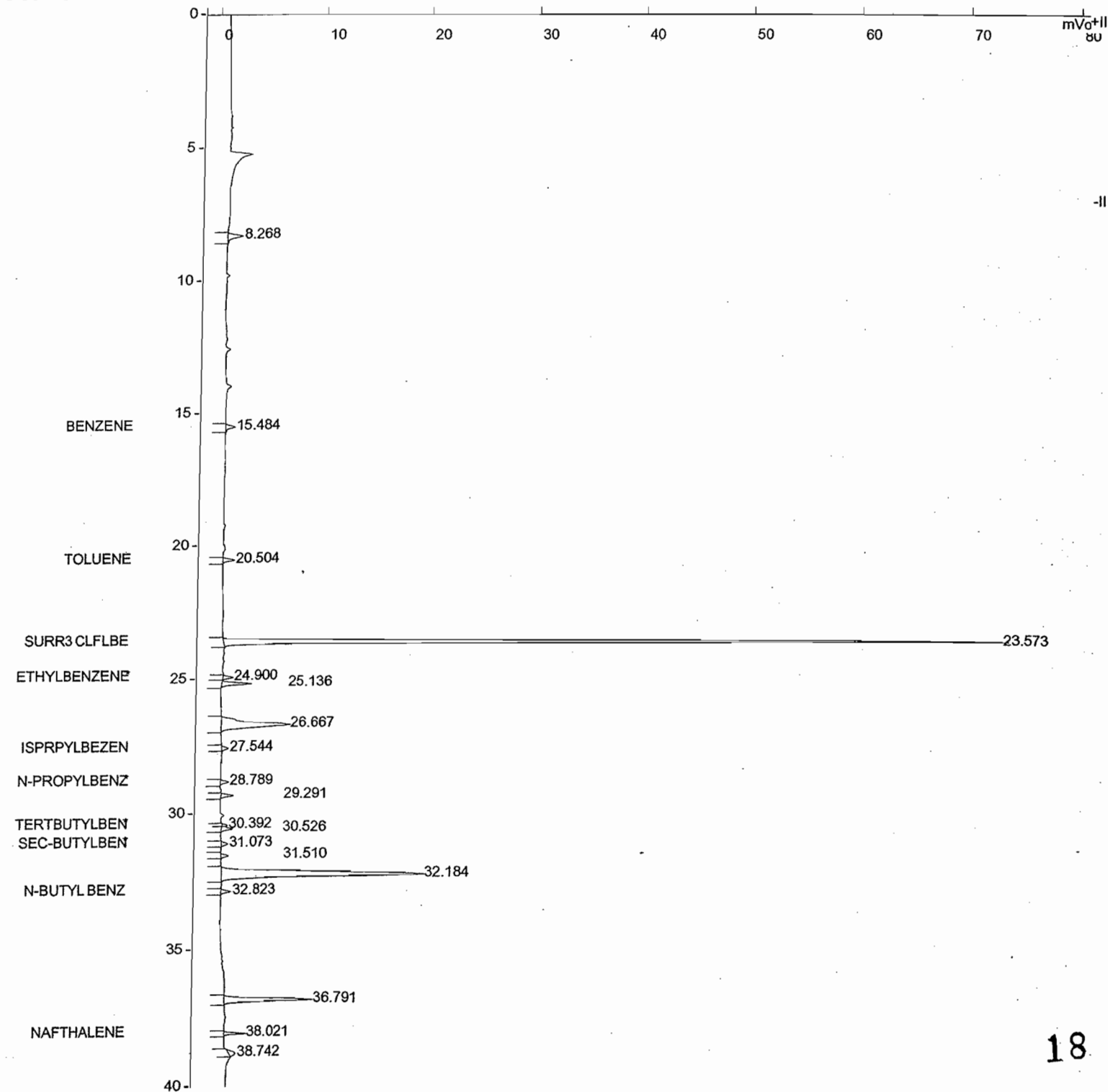
JB4/25

807470 JB4/25
Injection Date: 4/23/05 4:44 AM Calculation Date: 4/23/05 5:24 AM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 344 Zero Offset = 1%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HP1 8021B.TLSW
 Run File : j:\acqdata\hpl\data\042205\1018.run
 Method File : J:\ACQDATA\HP1\METHODS\Hpl0316s.mth
 Sample ID : 807471 1 ST R25809
 807470 JB 4/25

Injection Date: 4/23/05 4:44 AM Calculation Date: 4/23/05 5:24 AM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acq Bus Address : 16
 Instrument : HPL Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22cd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.268	0.000	12575	BB	7.7	
2	MIBE		10.136					M
3	BENZENE	0.240	15.484	-0.013	6785	BB	6.9	
4	TOLUENE	0.283	20.504	-0.008	6953	BB	5.8	
5	SUR3 C1FEE	25.793	23.573	-0.059	444110	BB	5.8	R
6	ETHYLBENZENE	0.259	24.900	-0.001	5499	BB	5.5	
7	M,P-XYLENE	0.704	25.136	0.004	17931	BB	5.7	
8	O-XYLENE		26.449					M
9		0.000	26.667	0.000	89268	BB	11.8	
10	ISOPYMBENZEN	0.231	27.544	0.012	4151	BB	6.5	
11	N-PROPYLBENZ	0.240	28.789	0.012	4784	BB	5.6	
12	1,3,5-TRIMET	0.248	29.291	0.014	7031	BB	5.6	
13	TERIBUTYLBEN	0.176	30.392	0.009	2616	BV	4.8	
14	1,2,4-TRIMET	0.277	30.526	0.015	6548	VB	5.6	
15	SEC-BUTYLBEN	0.237	31.073	0.015	4128	BB	6.6	
16	P-ISOPYLLIOL	0.260	31.510	0.016	4428	BB	6.0	
17		0.000	32.184	0.000	234061	BB	11.6	
18	N-BUTYL BENZ	0.310	32.823	0.020	5532	BB	5.4	
19		0.000	36.791	0.000	66811	BB	7.5	
20	NAFTHALENE	0.362	38.021	0.049	8948	BB	3.9	
21		0.000	38.742	0.000	6716	BB	0.0	
Totals:		29.620		0.085	938875			

Status Codes:

R - Reference peak

M - Missing peak

Total Unidentified Counts : 409430 counts

Detected Peaks: 19 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 752 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 136 microVolts

Manual injection

* *****

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWWEX.8 (7.0-7.5FT)

Date Sampled : 04/20/05 13:50 Order #: 807471 Sample Matrix: SOIL/SEDIMENT
Date Received: 04/21/05 Submission #: R2525809 Percent Solid: 84.0

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/23/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	1.2 U	UG/KG
SEC-BUTYLBENZENE	1.0	1.2 U	UG/KG
TERT-BUTYLBENZENE	1.0	1.2 U	UG/KG
N-BUTYLBENZENE	1.0	1.2 U	UG/KG
METHYL-TERT-BUTYLETHER	1.0	1.2 U	UG/KG
ETHYLBENZENE	1.0	1.2 U	UG/KG
ISOPROPYLBENZENE	1.0	1.2 U	UG/KG
P-ISOPROPYLTOLUENE	1.0	1.2 U	UG/KG
NAPHTHALENE	1.0	1.2 U	UG/KG
N-PROPYLBENZENE	1.0	1.2 U	UG/KG
TOLUENE	1.0	1.2 U	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	1.2 U	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	1.2 U	UG/KG
O-XYLENE	2.0	2.4 U	UG/KG
M+P-XYLENE	2.0	2.4 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

CHLOROFLUOROBENZENE	(39 - 136 %)	79	%
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CP 9/22/02
8 2

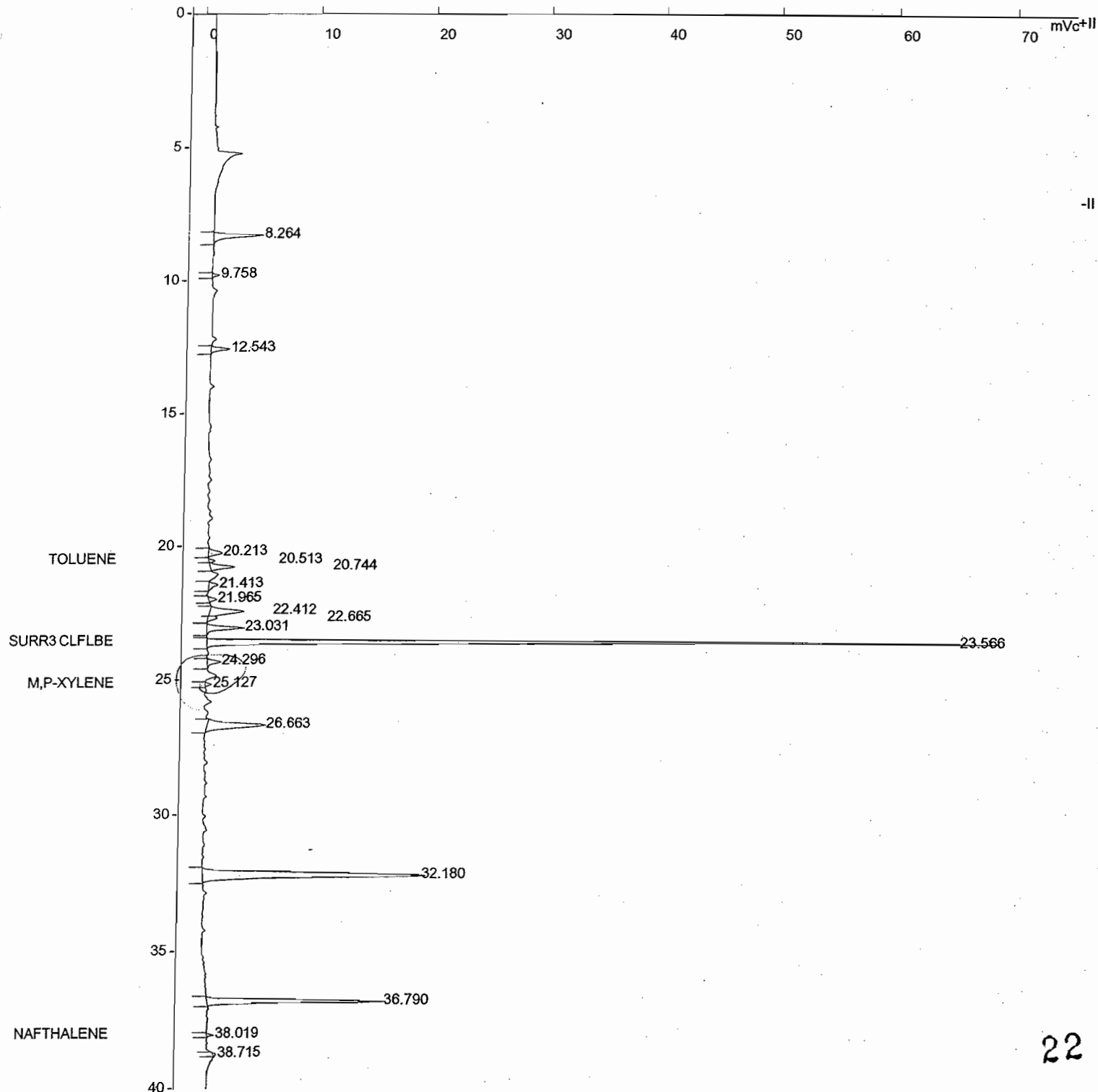
Title : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\042205\1019.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : ~~CCV #3~~ 807710 JB4/25.

Injection Date: 4/23/05 5:35 AM Calculation Date: 4/23/05 6:15 AM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 320 Zero Offset = 1%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HP1 8021B.TLSW
 Run File : j:\acqdata\hpl\data\042205\1019.run
 Method File : J:\ACQDATA\HP1\METHODS\Hpl0316s.mth
 Sample ID : CCV #3

Injection Date: 4/23/05 5:35 AM Calculation Date: 4/23/05 6:15 AM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HP1 Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22bd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.264	0.000	36189	BB	7.5	
2		0.000	9.758	0.000	3102	BB	5.1	
3	MIBB		10.133					M
4		0.000	12.543	0.000	11761	BB	6.8	
5	BENZENE		15.493					M
6		0.000	20.213	0.000	11567	BB	9.3	
7	TOLUENE	0.127	20.513	0.006	3118	BV	6.2	
8		0.000	20.744	0.000	18535	VB	8.8	
9		0.000	21.413	0.000	7414	BB	7.8	
10		0.000	21.965	0.000	5114	BB	0.0	
11		0.000	22.412	0.000	33855	BV	10.9	
12		0.000	22.665	0.000	5971	VB	0.0	
13		0.000	23.031	0.000	27101	BB	7.8	
14	SURR3 CLFEE	23.817	23.566	-0.066	410077	BB	5.7	R
15		0.000	24.296	0.000	9334	BB	7.5	
16	ETHYLBENZENE		24.894					M
17	M,P-XYLENE	0.117	25.127	0.002	2971	BB	5.5	
18	O-XYLENE		26.441					M
19		0.000	26.663	0.000	63474	BB	11.6	
20	ISOPYLBENZ		27.524					M
21	N-PROPYLBENZ		28.769					M
22	1,3,5-TRIMET		29.268					M
23	TERIBUTYLBEN		30.374					M
24	1,2,4-TRIMET		30.502					M
25	SEC-BUTYLBEN		31.049					M
26	P-ISOPYLLIOL		31.485					M
27		0.000	32.180	0.000	233493	BB	11.5	
28	N-BUTYL BENZ		32.794					M
29		0.000	36.790	0.000	123914	BB	7.7	
30	NAFHALENE	0.103	38.019	0.058	2538	BB	4.0	
31		0.000	38.715	0.000	1524	BB	0.0	
Totals:		24.164		0.000	1011052			

Status Codes:

R - Reference peak

M - Missing peak

Total Unidentified Counts : 592346 counts

Detected Peaks: 19 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 783 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 87 microVolts

Manual injection

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWNEX.8 (12.0-12.5FT)

Date Sampled : 04/20/05 13:55 Order #: 807472 Sample Matrix: SOIL/SEDIMENT
Date Received: 04/21/05 Submission #: R2525809 Percent Solid: 88.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 04/28/05		
ANALYTICAL DILUTION:	1.00		Dry Weight
BENZENE	1.0	1.1 U	UG/KG
SEC-BUTYLBENZENE	1.0	1.1 U	UG/KG
TERT-BUTYLBENZENE	1.0	1.1 U	UG/KG
N-BUTYLBENZENE	1.0	1.1 U	UG/KG
METHYL-TERT-BUTYLETHER	1.0	1.1 U	UG/KG
ETHYLBENZENE	1.0	1.1 U	UG/KG
ISOPROPYLBENZENE	1.0	1.1 U	UG/KG
P-ISOPROPYLTOLUENE	1.0	1.1 U	UG/KG
NAPHTHALENE	1.0	1.1 U	UG/KG
N-PROPYLBENZENE	1.0	1.1 U	UG/KG
TOLUENE	1.0	1.1 U	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	1.1 U	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	1.1 U	UG/KG
O-XYLENE	2.0	2.3 U	UG/KG
M+P-XYLENE	2.0	2.3 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

CHLOROFLUOROBENZENE	(39 - 136 %)	82	%
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10
25
NP 9/27/07

Title : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\042805\1005.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : 307482 1 ST R25809

JB 4/29

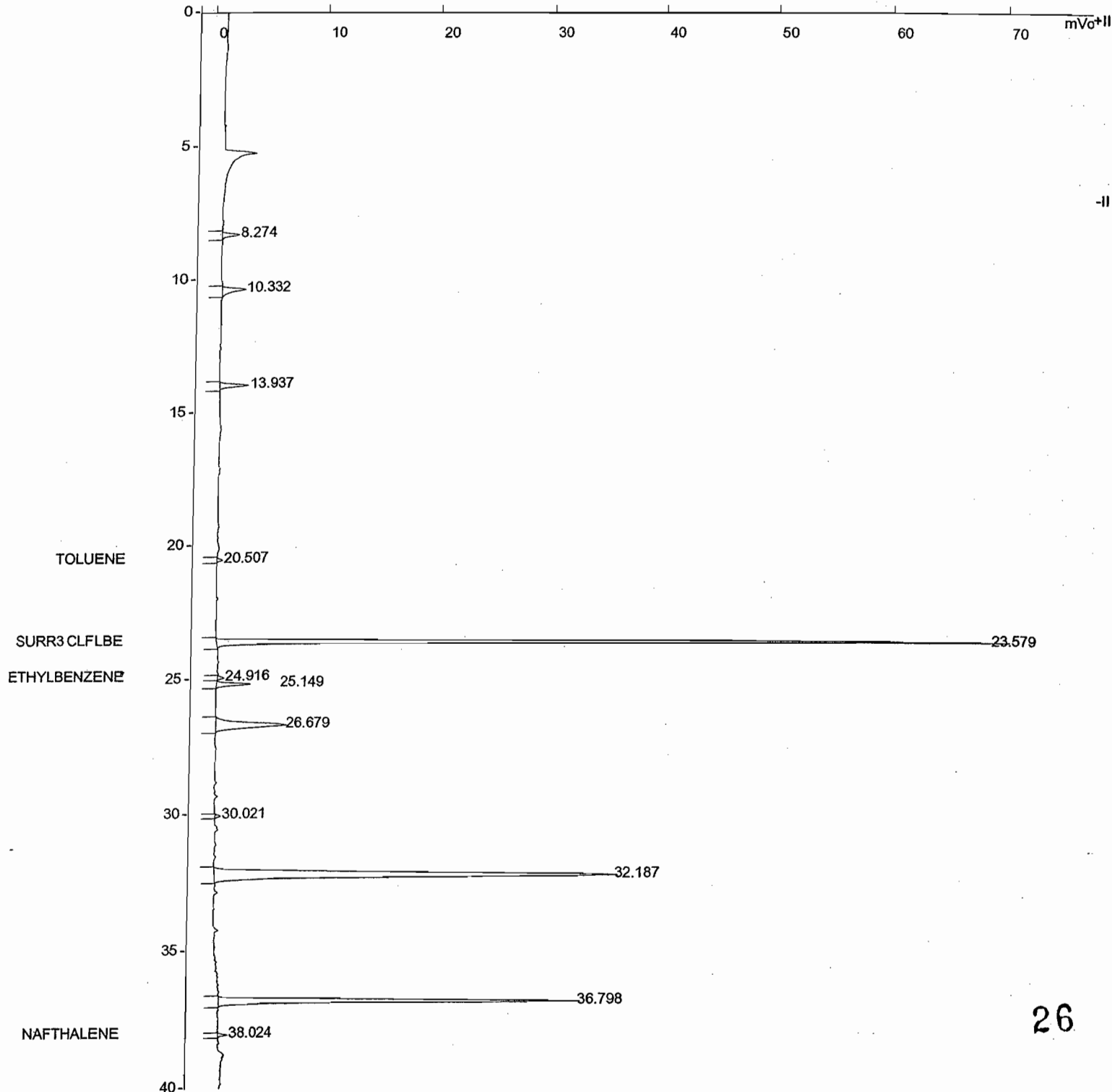
87472 JB 4/29

Injection Date: 4/28/05 5:53 PM Calculation Date: 4/28/05 6:33 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 329 Zero Offset = 1%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpi\data\042805\1005.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpi0316s.mth
 Sample ID : 807482-1 ST R25809

807472

J67/21

Injection Date: 4/28/05 5:53 PM Calculation Date: 4/28/05 6:33 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqu Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22hd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.274	0.000	10891	BB	6.7	
2	MIBE		10.138					M
3		0.000	10.332	0.000	19410	BB	8.3	
4		0.000	13.937	0.000	18314	BB	7.1	
5	BENZENE		15.501					M
6	TOLUENE	0.114	20.507	-0.010	2806	BB	5.6	
7	SUR3 CLFEE	24.668	23.579	-0.053	424744	BB	5.7	R
8	ETHYLBENZENE	0.151	24.916	0.009	3219	BB	5.4	
9	M,P-XYLENE	0.788	25.149	0.010	20051	BB	6.2	
10	O-XYLENE		26.455					M
11		0.000	26.679	0.000	81046	BB	11.9	
12	ISOPYLBENZ		27.539					M
13	N-PROPYLBENZ		28.784					M
14	1,3,5-TRIMET		29.284					M
15		0.000	30.021	0.000	2503	BB	5.2	
16	TERIBUTYLBEN		30.390					M
17	1,2,4-TRIMET		30.518					M
18	SEC-BUTYLBEN		31.066					M
19	P-ISOPYLTOL		31.502					M
20		0.000	32.187	0.000	429422	BB	11.5	
21	N-BUTYL BENZ		32.811					M
22		0.000	36.798	0.000	249225	BB	7.4	
23	NAFHALENE	0.156	38.024	0.043	3846	BB	4.0	
Totals:		25.877		-0.001	1265477			

Status Codes:

R - Reference peak
 M - Missing peak

Total Unidentified Counts : 810811 counts

Detected Peaks: 12 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 977 microVolts

bise (used) : 70 microVolts - fixed value
Noise (monitored before this run) : 50 microVolts

anal injection

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWSEX.8 (9.0-9.5FT)

Date Sampled : 04/20/05 13:45 Order #: 807473 Sample Matrix: SOIL/SEDIMENT
Date Received: 04/21/05 Submission #: R2525809 Percent Solid: 83.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/28/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	1.2 U	UG/KG
SEC-BUTYLBENZENE	1.0	1.2 U	UG/KG
TERT-BUTYLBENZENE	1.0	1.2 U	UG/KG
N-BUTYLBENZENE	1.0	1.2 U	UG/KG
METHYL-TERT-BUTYLETHER	1.0	1.2 U	UG/KG
ETHYLBENZENE	1.0	1.2 U	UG/KG
ISOPROPYLBENZENE	1.0	1.2 U	UG/KG
P-ISOPROPYLTOLUENE	1.0	1.2 U	UG/KG
NAPHTHALENE	1.0	1.2 U	UG/KG
N-PROPYLBENZENE	1.0	1.2 U	UG/KG
TOLUENE	1.0	1.2 U	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	1.2 U	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	1.2 U	UG/KG
O-XYLENE	2.0	2.4 U	UG/KG
M+P-XYLENE	2.0	2.4 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

CHLOROFLUOROBENZENE	(39 - 136 %)	90	%
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Title : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\042805\1006.run
Method File : J:\ACQDATA\HP1\METHODS\Hp10316s.mth
Sample ID : 807483 1 ST R25809

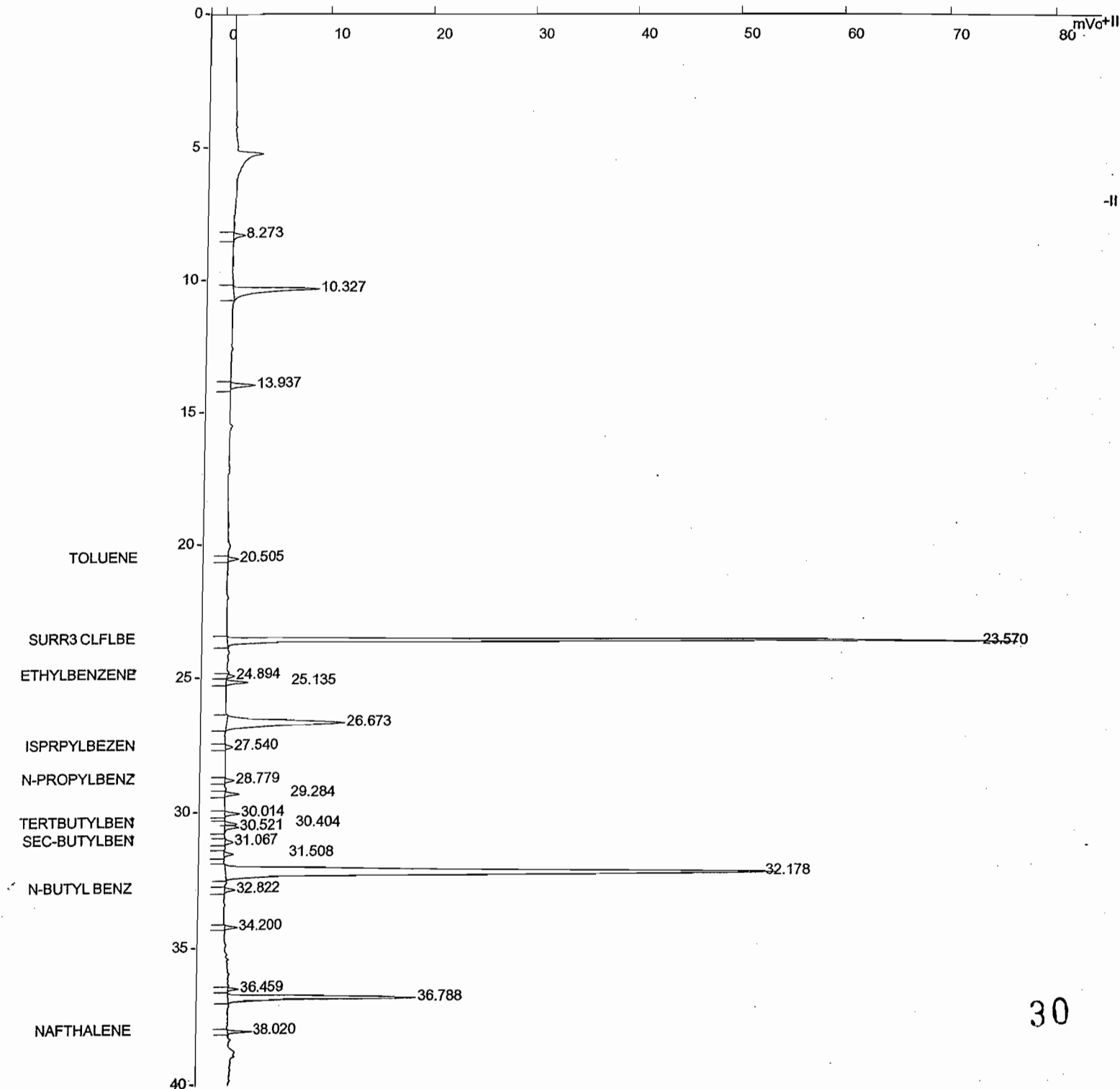
JB/29

Injection Date: 4/28/05 6:44 PM Calculation Date: 4/28/05 7:24 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 359 Zero Offset = 1%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpi\data\042805\1006.run
 Method File : J:\ACQDATA\HPI\METHODS\Hpi10316s.mth
 Sample ID : 807483-1 ST R25809
 807483 JB4/29

Injection Date: 4/28/05 6:44 PM Calculation Date: 4/28/05 7:24 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acq Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22bd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.273	0.000	8506	BB	7.0	
2	MIBB		10.134					M
3		0.000	10.327	0.000	82619	BB	8.5	
4		0.000	13.937	0.000	17664	BB	6.9	
5	BENZENE		15.495					M
6	TOLENE	0.259	20.505	-0.006	6369	BB	5.9	
7	SURR3 CLFLBE	26.918	23.570	-0.062	463470	BB	5.8	R
8	ETHYLBENZENE	0.186	24.894	-0.004	3946	BB	5.3	
9	M,P-XYLENE	0.511	25.135	0.005	13002	BB	5.6	
10	O-XYLENE		26.446					M
11		0.000	26.673	0.000	150918	BB	12.1	
12	ISOPYLBENZ	0.256	27.540	0.011	4610	BB	6.2	
13	N-PROPYLBENZ	0.261	28.779	0.006	5204	BB	5.7	
14	1,3,5-TRIMET	0.292	29.284	0.010	8292	BB	5.7	
15		0.000	30.014	0.000	8510	BB	5.8	
16	TERIBUTYLBEN	0.506	30.404	0.025	7517	BV	6.7	
17	1,2,4-TRIMET	0.369	30.521	0.013	8701	VB	7.1	
18	SEC-BUTYLBEN	0.311	31.067	0.013	5420	BB	6.6	
19	P-ISOPYLTOL	0.328	31.508	0.017	5581	BB	5.8	
20		0.000	32.178	0.000	642083	BB	11.5	
21	N-BUTYL BENZ	0.336	32.822	0.023	5989	BB	5.6	
22		0.000	34.200	0.000	6541	BB	5.1	
23		0.000	36.459	0.000	4446	BB	4.1	
24		0.000	36.788	0.000	151266	BB	8.1	
25	NAFTHALENE	0.408	38.020	0.052	10092	BB	4.0	
Totals:		30.941		0.103	1620746			

Status Codes:

R - Reference peak
 M - Missing peak

Total Unidentified Counts : 1072554 counts

Detected Peaks: 22 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 870 microVolts

Offset (used): 70 microVolts - fixed value

Offset (monitored before this run): 206 microVolts

Manual injection

COLUMBIA ANALYTICAL SERVICES

1 Mustard St. Rochester N.Y.
(716)-288-5380

Analyst: J BRYANT

Date: 03/16/05

Time: 15:54

Analysis: 8021B.TL SOILS HEATED

Column: RESTEK CAPILLARY Rtx 502.2 - 105m

Instrument I.D.: HP1 - PID / FID

Standard I.D. : STANDARD #1 - 1.0 ppb

Compound	Retention Time	Area Units	Conc. (ug/kg)	Response Factor
Methyl t-butyl ether	10.17	1.17	1.00	1.1731
Benzene	15.54	3.04	1.00	3.0398
Toluene	20.57	2.59	1.00	2.5893
Ethylbenzene	24.97	2.19	1.00	2.1893
p-Xylene + m-Xylene	25.20	5.24	2.00	2.6176
o-Xylene	26.52	2.45	1.00	2.4457
Isopropylbenzene	27.61	1.84	1.00	1.8433
n-Propylbenzene	28.85	1.92	1.00	1.9166
1,3,5-Trimethylbenzene	29.35	2.90	1.00	2.9045
tert-Butylbenzene	30.46	1.43	1.00	1.4288
1,2,4-Trimethylbenzene	30.59	2.50	1.00	2.4989
sec-Butylbenzene	31.14	1.79	1.00	1.7883
p-Isopropyltoluene	31.58	1.73	1.00	1.7260
n-Butylbenzene	32.89	1.81	1.00	1.8121
Naphthalene	38.10	2.75	1.00	2.7509

SURROGATES

Chlorofluorobezene	23.64	5.23	3.00	1.7427
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Area units = x10⁻⁴

COLUMBIA ANALYTICAL SERVICES

1 Mustard St. Rochester N.Y.

(716)-288-5380

Analyst: J BRYANT

Date: 03/16/05

Time: 17:27

Analysis: 8021B.TL SOILS HEATED

Column: RESTEK CAPILLARY Rtx 502.2 - 105m

Instrument I.D.: HP1 - PID / FID

Standard I.D. : STANDARD #2 - 25ppb

Compound	Retention Time	Area Units	Conc. (ug/kg)	Response Factor
Methyl t-butyl ether	10.16	33.5	25.0	1.3390
Benzene	15.54	71.8	25.0	2.8709
Toluene	20.57	63.4	25.0	2.5366
Ethylbenzene	24.98	55.8	25.0	2.2327
p-Xylene + m-Xylene	25.21	133.7	50.0	2.6738
o-Xylene	26.53	57.6	25.0	2.3033
Isopropylbenzene	27.62	47.5	25.0	1.8986
n-Propylbenzene	28.87	52.9	25.0	2.1146
1,3,5-Trimethylbenzene	29.37	76.5	25.0	3.0591
tert-Butylbenzene	30.48	39.4	25.0	1.5741
1,2,4-Trimethylbenzene	30.60	62.6	25.0	2.5051
sec-Butylbenzene	31.15	45.6	25.0	1.8244
p-Isopropyltoluene	31.59	45.5	25.0	1.8194
n-Butylbenzene	32.90	48.4	25.0	1.9344
Naphthalene	38.09	64.9	25.0	2.5940

SURROGATES

Chlorofluorobezene	23.65	53.9	30.0	1.7969
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Area units = x10⁻⁴

COLUMBIA ANALYTICAL SERVICES

1 Mustard St. Rochester N.Y.

(716)-288-5380

Analyst: J BRYANT

Date: 03/16/05

Time: 18:19

Analysis: 8021B.TL SOILS HEATED

Column: RESTEK CAPILLARY Rtx 502.2 - 105m

Instrument I.D.: HP1 - PID / FID

Standard I.D. : STANDARD #3 - 50ppb

Compound	Retention Time	Area Units	Conc. (ug/kg)	Response Factor
Methyl t-butyl ether	10.16	62.6	50.0	1.2512
Benzene	15.54	139.8	50.0	2.7961
Toluene	20.57	122.6	50.0	2.4518
Ethylbenzene	24.96	107.1	50.0	2.1418
p-Xylene + m-Xylene	25.20	258.0	100.0	2.5804
o-Xylene	26.52	111.3	50.0	2.2255
Isopropylbenzene	27.60	90.8	50.0	1.8170
n-Propylbenzene	28.85	101.2	50.0	2.0233
1,3,5-Trimethylbenzene	29.35	145.1	50.0	2.9023
tert-Butylbenzene	30.46	75.7	50.0	1.5138
1,2,4-Trimethylbenzene	30.59	119.9	50.0	2.3988
sec-Butylbenzene	31.14	88.1	50.0	1.7613
p-Isopropyltoluene	31.57	87.3	50.0	1.7459
n-Butylbenzene	32.89	91.2	50.0	1.8232
Naphthalene	38.07	118.7	50.0	2.3745
SURROGATES				
Chlorofluorobezene	23.63	78.0	45.0	1.7328

Area units = x10-4

title : HP1 8021B.TLSW
 Run File : j:\acqdata\hpl\data\042205\1002.run
 Method File : J:\ACQDATA\HPL\METHODS\Hpl0316s.mth
 Sample ID : 1 20 FEB TL LCS

Injection Date: 4/22/05 2:37 PM Calculation Date: 4/22/05 3:17 PM

Operator : J BRVANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HPL Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22nd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.288	0.000	4051	EB	6.9	
2	MIBK	22.093	10.122	-0.019	264868	EB	10.6	
3	BENZENE	18.736	15.493	-0.012	530016	EB	6.7	
4	TOLUENE	19.451	20.522	-0.002	477828	EB	6.3	
5	SURF CLFEE	29.957	23.586	-0.046	515797	EB	5.8	R
6	ETHYLBENZENE	19.517	24.919	0.004	415076	EV	6.0	
7	M,P-XYLENE	38.733	25.148	0.002	985828	VB	5.9	
8	O-XYLENE	15.811	26.478	0.014	354491	EV	6.8	
9		0.000	26.573	0.000	619549	VB	7.9	
10	ISOPYMBENZ	17.840	27.557	0.010	320946	EB	6.4	
11		0.000	28.553	0.000	4630	EV	6.4	
12	N-PROPYLBENZ	19.207	28.803	0.010	383377	VB	5.9	
13	1,3,5-TRIMET	19.580	29.304	0.010	556122	EB	6.1	
14	TERIBUTYLBEN	19.435	30.414	0.014	288599	EV	7.0	
15	1,2,4-TRIMET	19.807	30.542	0.014	467646	VB	6.9	
16	SEC-BUTYLBEN	19.220	31.091	0.015	334462	EV	6.5	
17	P-ISOPYMTOL	19.196	31.528	0.016	326509	VB	6.0	
18		0.000	32.189	0.000	11218	EV	10.4	
19		0.000	32.208	0.000	9534	VB	11.0	
20	N-BUTYL BENZ	19.714	32.837	0.015	351223	EB	5.6	
21		0.000	34.215	0.000	2139	EB	3.6	
22		0.000	36.745	0.000	8946	EB	4.2	
23	NAFTHALENE	18.472	38.028	0.035	456462	EB	3.9	
24		0.000	38.751	0.000	4539	EB	0.0	
Totals:		336.769		0.080	7693856			

Bus Codes:
 Reference peak

Total Unidentified Counts : 664607 counts

Detected Peaks: 24 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 931 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 87 microVolts

Manual injection

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 09/27/07

Project Reference:

Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :	Order #: 810714	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/28/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	20	UG/KG
SEC-BUTYLBENZENE	1.0	21	UG/KG
TERT-BUTYLBENZENE	1.0	21	UG/KG
N-BUTYLBENZENE	1.0	22	UG/KG
METHYL-TERT-BUTYLETHER	1.0	22	UG/KG
ETHYLBENZENE	1.0	21	UG/KG
ISOPROPYLBENZENE	1.0	19	UG/KG
P-ISOPROPYLTOLUENE	1.0	21	UG/KG
NAPHTHALENE	1.0	19	UG/KG
N-PROPYLBENZENE	1.0	21	UG/KG
TOLUENE	1.0	20	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	21	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	21	UG/KG
O-XYLENE	2.0	17	UG/KG
M+P-XYLENE	2.0	41	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
CHLOROFLUOROBENZENE	(39 - 136 %)	98	%

Run File : j:\acqdata\hpl\data\042805\1002.run
Method File : j:\acqdata\hpl\methods\hpl0316s.mth
Sample ID : 1 20 PPB LCS

8/31/27
* See Attached

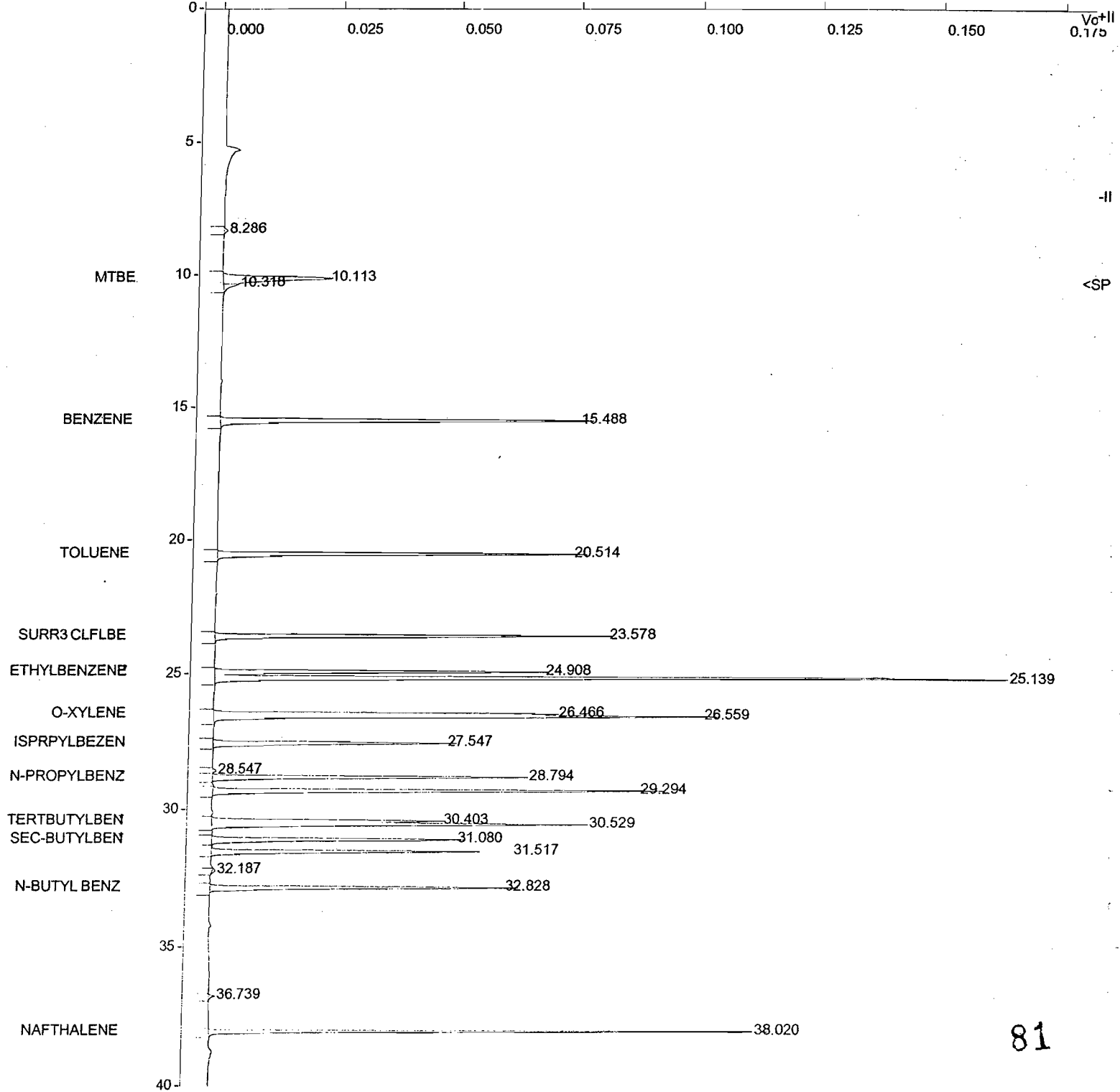
810714

Injection Date: 4/28/05 2:48 PM Calculation Date: 4/29/05 12:07 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HPL Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 776 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPI 8021B.TLSW
 Run File : j:\acqdata\hpi\data\042805\1002.run
 Method File : j:\acqdata\hpi\methods\hpi0316s.mth
 Sample ID : 1 20 HBB LCS

Injection Date: 4/28/05 2:48 PM Calculation Date: 4/29/05 12:07 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqu Bus Address : 16
 Instrument : HPI Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22cd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.286	0.000	5973	BB	7.1	
2	MIBE	21.591	10.113	-0.024	258857	BV	0.0	
3		0.000	10.318	0.000	22851	VB	10.7	
4	BENZENE	19.780	15.488	-0.013	559540	BB	6.8	
5	TOLUENE	20.515	20.514	-0.004	503952	BB	6.2	
6	SURR3 CLFIBE	29.290	23.578	-0.054	504323	BB	5.8	R
7	ETHYLBENZENE	20.704	24.908	0.002	440318	BV	6.0	
8	M,P-XYLENE	41.166	25.139	0.002	1047765	VB	5.9	
9	O-XYLENE	16.966	26.466	0.011	380385	BV	6.5	
10		0.000	26.559	0.000	649842	VB	7.8	
11	ISOPYLBENZEN	19.136	27.547	0.009	344267	BB	6.4	
12		0.000	28.547	0.000	4782	BV	6.4	
13	N-PROPYLBENZ	20.713	28.794	0.010	413425	VB	5.9	
14	1,3,5-TRIMET	20.875	29.294	0.011	592918	BB	6.0	
15	TERIBUTYLBEN	21.220	30.403	0.013	315111	BV	6.9	
16	1,2,4-TRIMET	20.984	30.529	0.012	495428	VB	6.8	
17	SEC-BUTYLBEN	20.870	31.080	0.015	363164	BV	6.5	
18	P-ISOPYLTOL	20.634	31.517	0.016	350958	VB	5.9	
19		0.000	32.187	0.000	4513	BB	0.0	
20	N-BUTYL BENZ	21.620	32.828	0.018	385183	BB	5.6	
21		0.000	36.739	0.000	6982	BB	4.5	
22	NAFTHALENE	19.273	38.020	0.040	476263	BB	3.9	
Totals:		355.337		0.064	8126800			

Bus Codes:

B - Reference peak

Unidentified Counts : 694942 counts

Detected Peaks: 22 Rejected Peaks: 0 Identified Peaks: 16

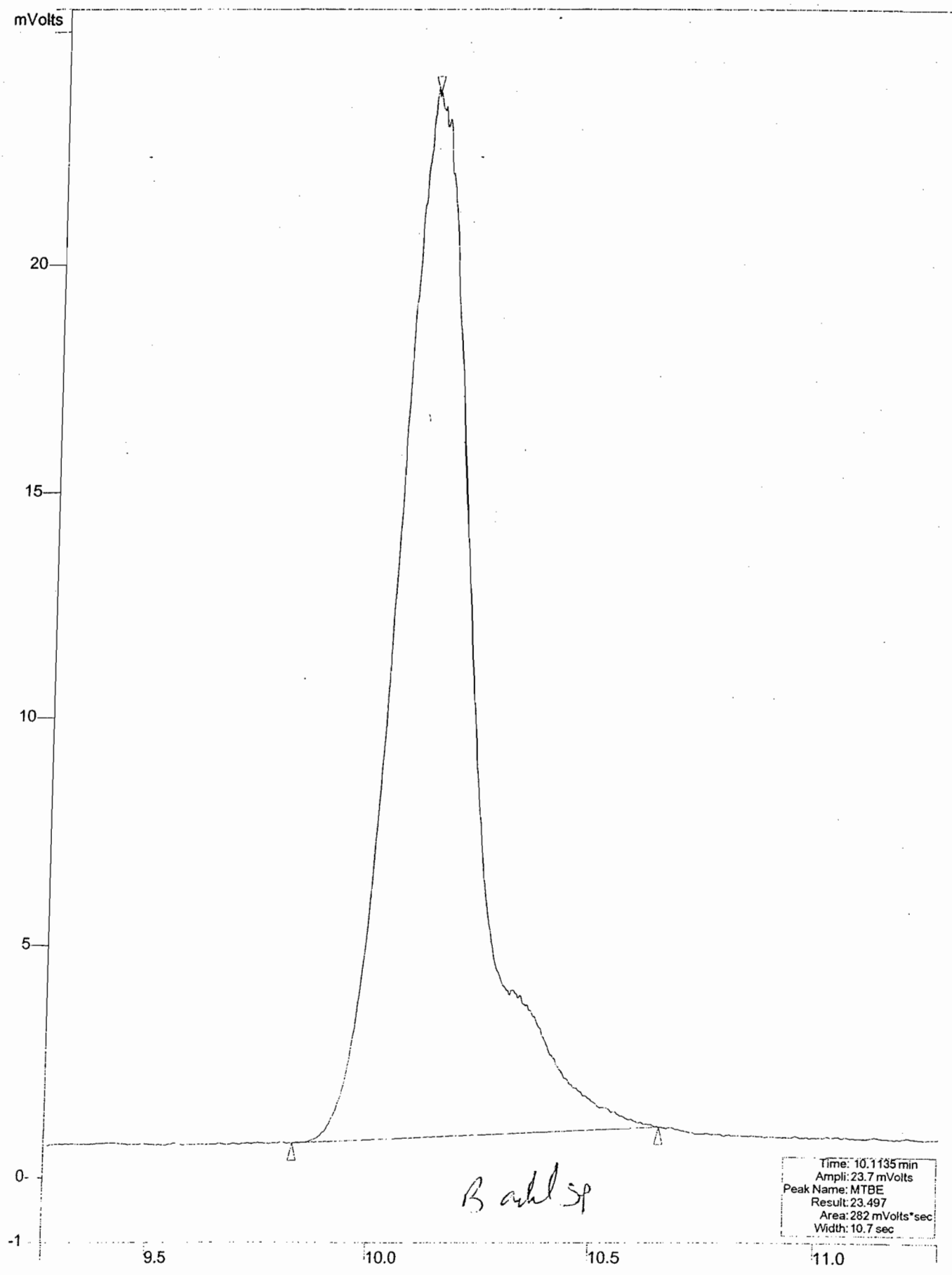
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 826 microVolts

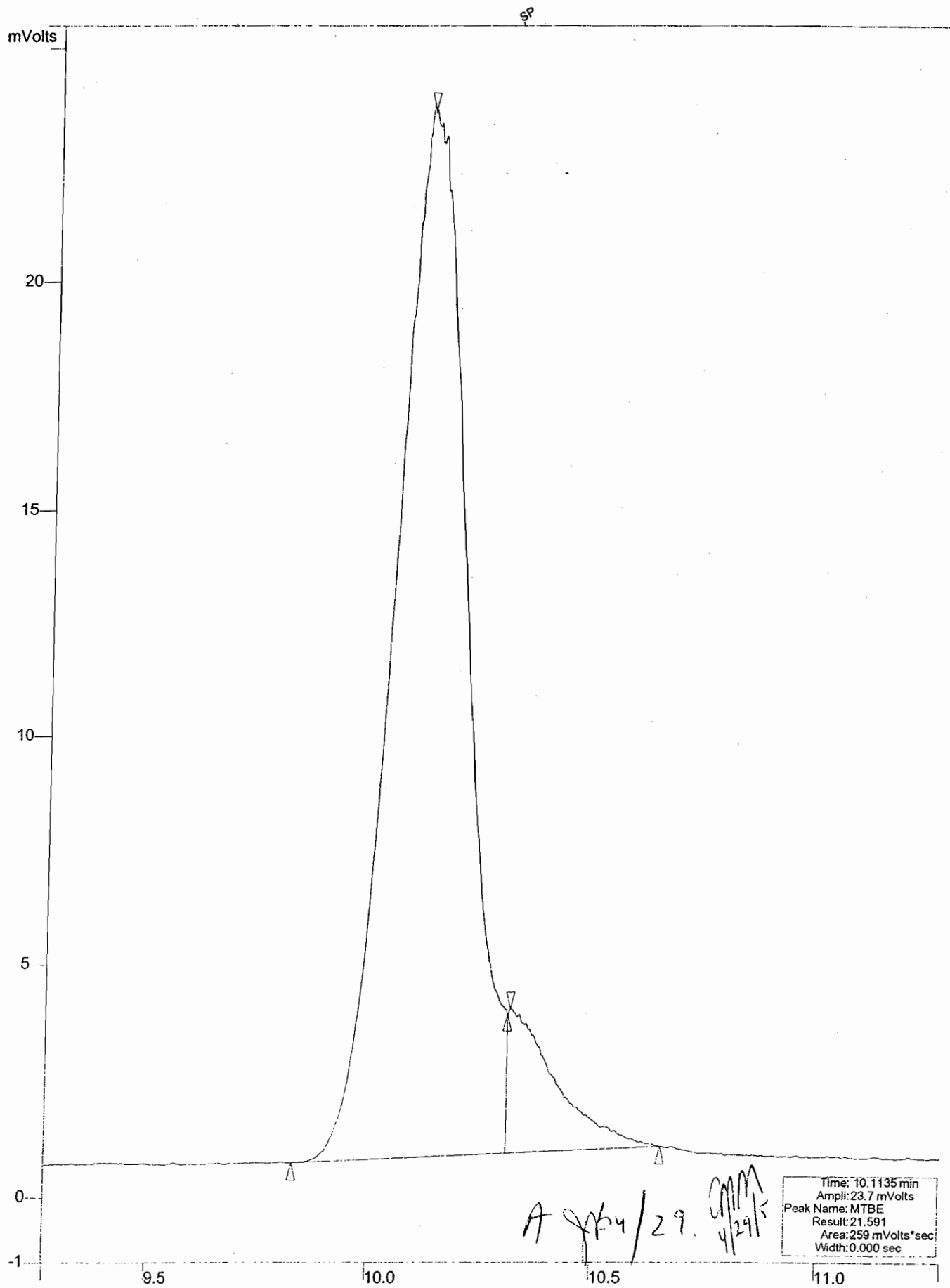
Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 134 microVolts

Manual injection



Bohl Sp



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 09/27/07

Project Reference:

Client Sample ID : MATRIX SPIKE

Date Sampled :	Order #: 810715	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 83.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/28/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	51	UG/KG
SEC-BUTYLBENZENE	1.0	48	UG/KG
TERT-BUTYLBENZENE	1.0	51	UG/KG
N-BUTYLBENZENE	1.0	47	UG/KG
METHYL-TERT-BUTYLETHER	1.0	54	UG/KG
ETHYLBENZENE	1.0	51	UG/KG
ISOPROPYLBENZENE	1.0	51	UG/KG
P-ISOPROPYLTOLUENE	1.0	49	UG/KG
NAPHTHALENE	1.0	43	UG/KG
N-PROPYLBENZENE	1.0	50	UG/KG
TOLUENE	1.0	51	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	50	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	51	UG/KG
O-XYLENE	2.0	51	UG/KG
M+P-XYLENE	2.0	100	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
CHLOROFLUOROBENZENE	(39 - 136 %)	78	%

Title : HP1 8021B.TLSW
Run File : j:\acqdata\hp1\data\042805\1007.run
Method File : J:\ACQDATA\HP1\METHODS\Hp10316s.mth
Sample ID : 807483 1 MS R25809

8/29

81473

8/29

810715

Injection Date: 4/28/05 7:35 PM Calculation Date: 4/28/05 8:15 PM

Operator : J BRYANT

Detector Type: ADCB (1 Volt)

Workstation: Acqu

Bus Address : 16

Instrument : HP1

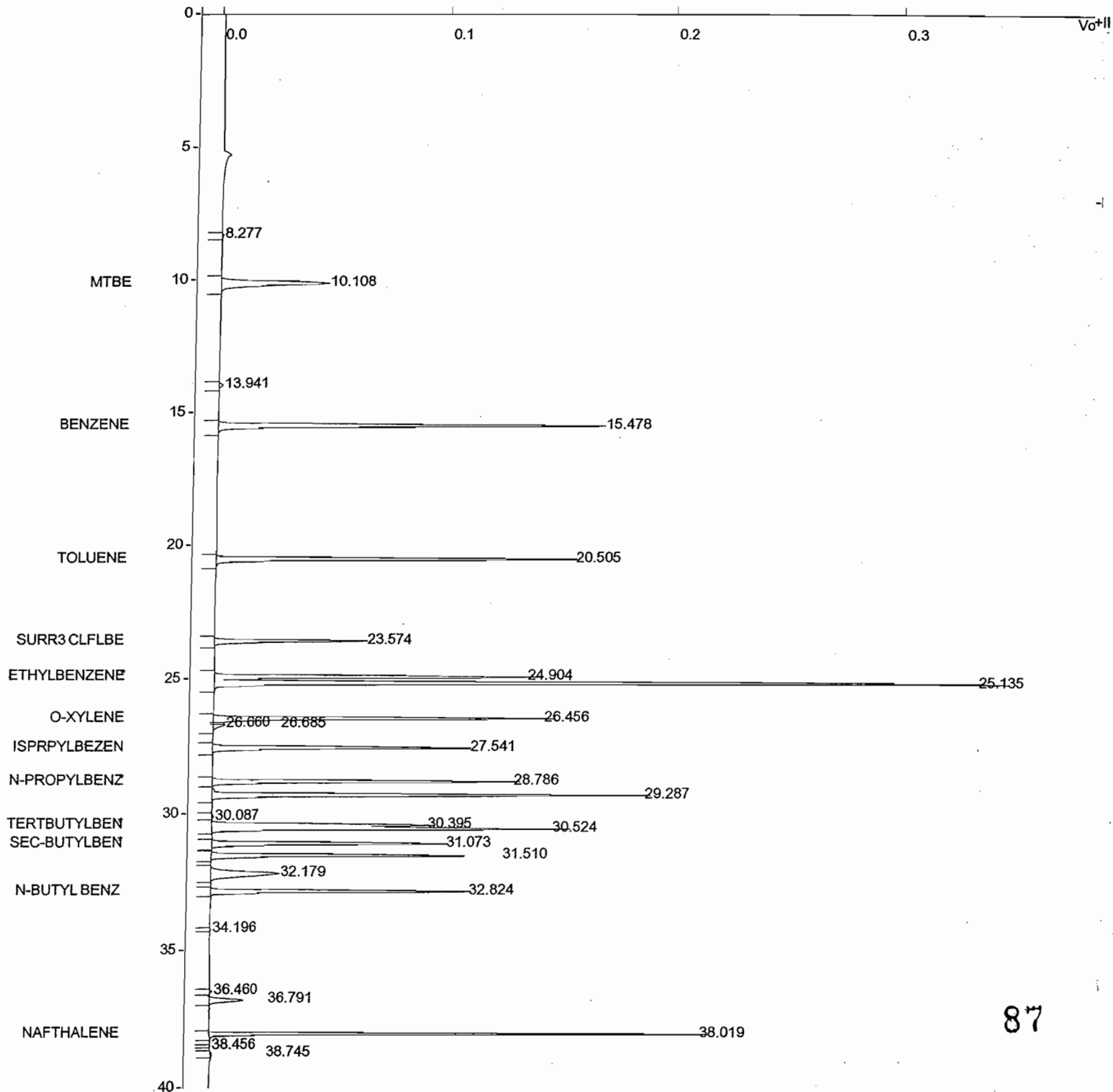
Sample Rate : 10.00 Hz

Channel : A = PID

Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 1639 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPL 8021B.TLSW
 In File : j:\acqdata\hpl\data\042805\1007.run
 Method File : J:\ACQDATA\HPL\METHODS\Hpl0316s.mth
 Sample ID : 807483 1 MS R25809
 807473 J84/29

Injection Date: 4/28/05 7:35 PM Calculation Date: 4/28/05 8:15 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqui Bus Address : 16
 Instrument : HPL Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

* Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22hd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.277	0.000	3825	BB	0.0	
2	MIBE	44.783	10.108	-0.028	536894	BB	10.6	
3		0.000	13.941	0.000	12908	BB	7.0	
4	BENZENE	43.211	15.478	-0.020	1222378	BB	6.7	
5	TOLUENE	43.112	20.505	-0.009	1059084	BB	6.3	
6	SURF CLFIBE	23.482	23.574	-0.058	404323	BB	5.7	R
7	ETHYLBENZENE	43.241	24.904	0.002	919621	BV	6.1	
8	M,P-XYLENE	85.953	25.135	0.002	2187687	VB	5.9	
9	O-XYLENE	43.256	26.456	0.006	969796	BV	6.0	
10		0.000	26.660	0.000	19879	W	0.0	
11		0.000	26.685	0.000	30866	VB	13.2	
12	ISOPYLBENZEN	43.058	27.541	0.008	774628	BB	6.5	
13	N-PROPYLEN	41.710	28.786	0.008	832536	BV	5.8	
14	1,3,5-TRIMET	42.914	29.287	0.009	1218883	VB	6.0	
15		0.000	30.087	0.000	5488	BP	7.6	
16	TERIBUTYLEN	42.687	30.395	0.010	633885	PV	7.0	
17	1,2,4-TRIMET	42.120	30.524	0.012	994452	VB	6.7	
18	SEC-BUTYLEN	40.399	31.073	0.013	703002	BB	6.4	
19	P-ISOPYLTOL	41.158	31.510	0.014	700063	BB	5.9	
20		0.000	32.179	0.000	376333	BB	11.7	
21	N-BUTYL BENZ	38.663	32.824	0.020	688817	BB	5.7	
22		0.000	34.196	0.000	1482	BB	4.0	
23		0.000	36.460	0.000	4555	BB	4.1	
24		0.000	36.791	0.000	119345	BB	7.8	
25	NAFTHALENE	36.444	38.019	0.045	900592	BB	3.9	
26		0.000	38.456	0.000	1199	BB	3.3	
27		0.000	38.745	0.000	5301	BB	0.0	
Totals:		696.191		0.034	15327822			

Status Codes:

R - Reference peak

Total Unidentified Counts : 581181 counts

Detected Peaks: 27

Rejected Peaks: 0

Identified Peaks: 16

Multiplier: 1

Divisor: 1

Unidentified Peak Factor: 0

Baseline Offset: 818 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 107 microVolts

Manual injection

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8021B STARS LIST VOAS

Reported: 09/27/07

Project Reference:

Client Sample ID : MATRIX SPIKE DUPLICATE

Date Sampled :	Order #: 810716	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 83.7

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/28/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
BENZENE	1.0	53	UG/KG
SEC-BUTYLBENZENE	1.0	53	UG/KG
TERT-BUTYLBENZENE	1.0	55	UG/KG
N-BUTYLBENZENE	1.0	50	UG/KG
METHYL-TERT-BUTYLETHER	1.0	59	UG/KG
ETHYLBENZENE	1.0	55	UG/KG
ISOPROPYLBENZENE	1.0	55	UG/KG
P-ISOPROPYLTOLUENE	1.0	54	UG/KG
NAPHTHALENE	1.0	49	UG/KG
N-PROPYLBENZENE	1.0	54	UG/KG
TOLUENE	1.0	54	UG/KG
1,2,4-TRIMETHYLBENZENE	1.0	54	UG/KG
1,3,5-TRIMETHYLBENZENE	1.0	55	UG/KG
O-XYLENE	2.0	55	UG/KG
M+P-XYLENE	2.0	110	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
CHLOROFLUOROBENZENE	(39 - 136 %)	80	%

Title : HP1 8021B.TLSW
Run File : J:\acqdata\hp1\data\042805\1008.run
Method File : J:\ACQUDATA\HP1\METHODS\Hp10316s.mth
Sample ID : 807483 1 MSD 25809
807473 JB4/29

JB4/29

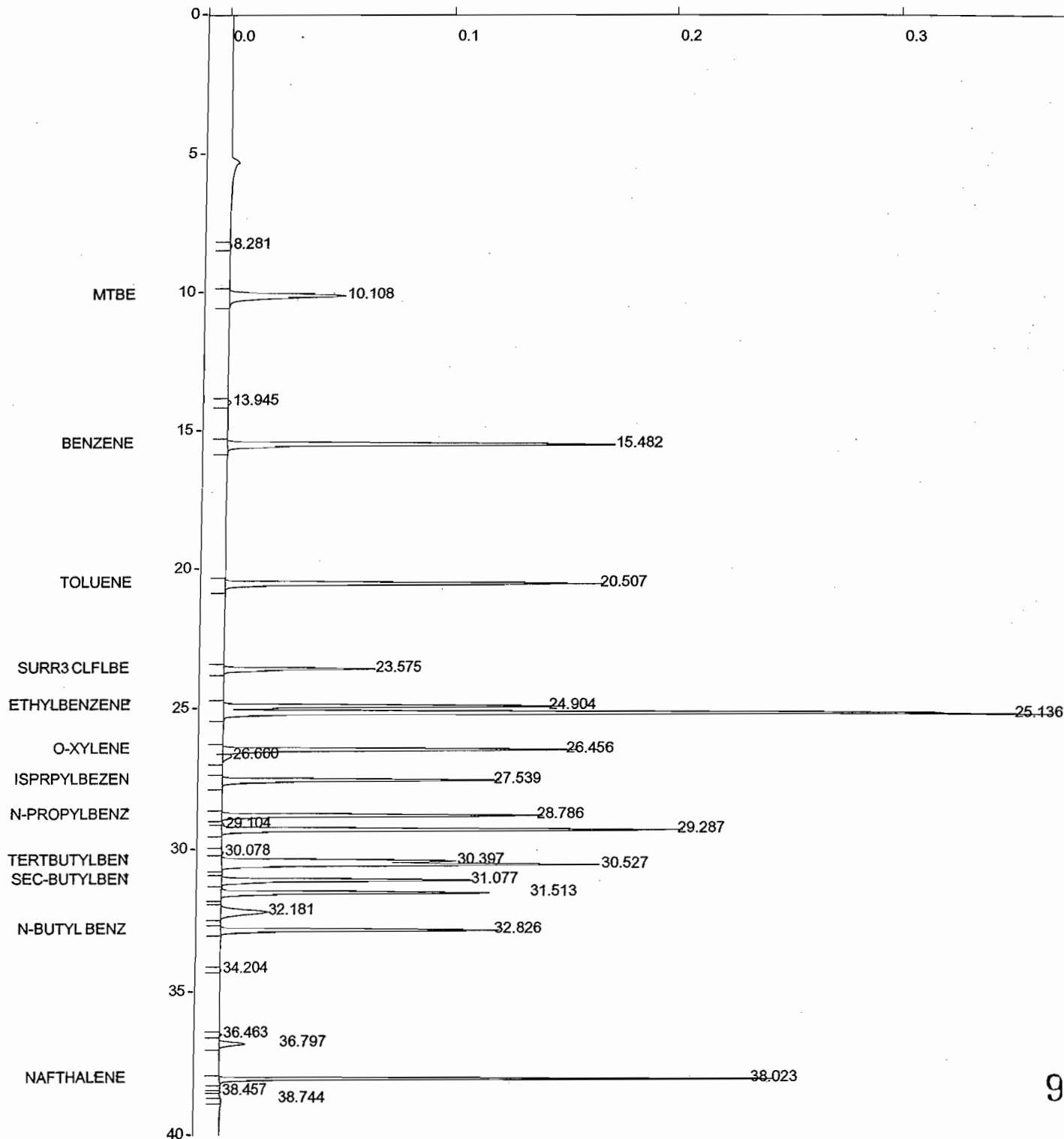
810716

Injection Date: 4/28/05 8:26 PM Calculation Date: 4/28/05 9:06 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
Workstation: Acqu Bus Address : 16
Instrument : HP1 Sample Rate : 10.00 Hz
Channel : A = PID Run Time : 40.002 min

** Star Chromatography Workstation Version 5.2 ** 00159-1a08-cd1-22bd **

Chart Speed = 0.49 cm/min Attenuation = 1738 Zero Offset = 2%
Start Time = 0.000 min End Time = 40.000 min Min / Tick = 5.00



Title : HPL 8021B.TLSW
 In File : j:\acqdata\hpl\data\042805\1008.run
 Method File : J:\ACQDATA\HPL\METHODS\Hpl0316s.mth
 Sample ID : 807483-1 MSD 25809

807473 J54/29

Injection Date: 4/28/05 8:26 PM Calculation Date: 4/28/05 9:06 PM

Operator : J BRYANT Detector Type: ADCB (1 Volt)
 Workstation: Acqu Bus Address : 16
 Instrument : HPL Sample Rate : 10.00 Hz
 Channel : A = PID Run Time : 40.002 min

Star Chromatography Workstation Version 5.2 ** 00159-1a08-cdl-22bd **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

Peak No.	Peak Name	Result (ug/kg)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1		0.000	8.281	0.000	5334	BB	7.5	
2	MIBP	48.954	10.108	-0.028	586904	BB	10.6	
3		0.000	13.945	0.000	11286	BB	7.0	
4	BENZENE	44.068	15.482	-0.017	1246609	BB	6.8	
5	TOLUENE	45.112	20.507	-0.008	1108206	BB	6.2	
6	SURF CLFEE	23.950	23.575	-0.057	412371	BB	5.8	R
7	ETHYLBENZENE	45.738	24.904	0.001	972738	BV	6.1	
8	M,P-XYLENE	91.643	25.136	0.002	2332491	VB	5.9	
9	O-XYLENE	45.646	26.456	0.005	1023396	BV	6.0	
10		0.000	26.660	0.000	39741	VB	13.2	
11	ISOPYLBENZ	46.093	27.539	0.004	829233	BB	6.3	
12	N-PROPYLBENZ	44.733	28.786	0.006	892864	BV	5.9	
13		0.000	29.104	0.000	4541	WV	7.3	
14	1,3,5-TRIMET	45.951	29.287	0.007	1305127	VB	6.1	
15		0.000	30.078	0.000	6403	BP	8.0	
16	TERIBUTYLEN	45.864	30.397	0.012	681064	PV	6.9	
17	1,2,4-TRIMET	45.461	30.527	0.014	1073333	VB	6.8	
18	SEC-BUTYLEN	44.057	31.077	0.016	766659	BV	6.5	
19	P-ISOPYLTOL	44.730	31.513	0.016	760813	VB	5.9	
20		0.000	32.181	0.000	264021	BB	11.5	
21	N-BUTYL BENZ	42.077	32.826	0.020	749659	BB	5.7	
22		0.000	34.204	0.000	3262	BB	4.8	
23		0.000	36.463	0.000	5139	BV	4.3	
24		0.000	36.797	0.000	98467	VB	7.9	
25	NAFTHALENE	41.341	38.023	0.048	1021592	BB	3.9	
26		0.000	38.457	0.000	1069	BB	2.5	
27		0.000	38.744	0.000	2170	BB	0.0	
Totals:		745.418		0.041	16204492			

Status Codes:
 R - Reference peak

Total Unidentified Counts : 441433 counts

Detected Peaks: 27 Rejected Peaks: 0 Identified Peaks: 16

Multiplier: 1

Divisor: 1

Unidentified Peak Factor: 0

Baseline Offset: 785 microVolts

Noise (used): 70 microVolts - fixed value

Noise (monitored before this run): 106 microVolts

Manual injection

4/28/05

80218 RSW heated.
HP1031ks.mTH

J. B. put

pH. Run 115613 Als D:12
 CCV#1 SmIDEt Sml 1°R(100) Sml sum(30) 6
 CCV#1 - " 8
 810713 Mthd BIK. SmIDEt Sml sum(30) 8 1/1
 810714 20PBLCS SmIDEt Sml R Ref(20) Sml sum(30) 8
 806893 STR 25-25779 8 1/1
 806893 806893 9 1/1
 807472 ST R25-25809 11 1/1
 807473 12 1/1
 810715 -MS Sml + Sml 1°R(100) Sml sum(30) 13
 810716 MSD 17
 CBlank SmIDEt Sml sum(30) 15
 CCV#2 See Above 16
 CCV#2 " 1

ok? AG#
 - notile sym. disabled
 Y 1.001
 Y 1001
 Y 1002
 Y 1003 7+4 confirm
 Y 1004 report 1003 run
 Y 1005 fix w/dub
 Y 1006
 Y 1007
 Y 1008
 Y 1009
 Y 1010
 use 1010

All samples Sgt. SmIDEt Sml sum(30)

153113
 1°R(100) GCV80057E
 R Ref(20) GCV80054
 Sml(30) GCV8005D

J. B. put 4/29/05

5/3/05

pH. Run 115716
 CCV#1 SmIDEt Sml 1°R
 810713 Mthd BIK SmIDEt Sml
 810714 20PBLCS SmIDEt Sml R
 810043-2 UR25
 810032-2 UR25
 800270-2 UR25
 810039-1 UR
 810715 MS-1 Sml + Sml
 810716 MSD-1
 CBlank SmIDEt Sml
 810034-1 UR
 810035-1
 810036-1
 CCV#2 See Above
 CCV#2 "
 CBlank See Above
 810037-1 UR
 810038-1
 810040-1
 810041-1
 CCV#3 See

All Sm

563/13
 1°R(100) GCV80057E G
 R Ref(20) GCV80054
 Sml(30) GCV8005D

calcd.

flynt

Als	D:in	OK?	File #
16		Y	1000
2	1/1	Y	1001
2		Y	1002
2	1/1	Y	1003
2	1/1	Y	1004
3	1/1	Y	1005
4	↓	⊙	1006
5	↓	Y	1007
6	1/1	Y	1008
7	1/1	Y	1009
8	1/1	Y	1010
9	1/1	Y	1011
10		Y	1012
11		Y	1012
12	1/1	Y	1014
13	1/1	Y	1015
14	1/1	Y	1016
15	1/1	Y	1017
16	1/1	Y	1018
1	1/1	Y	1019
2	1/1	Y	1020
3	1/1	Y	1021
4		Y	1022

nightmare
to RPOK

no
entry
benzene

mlOE + Sul(sun(30))

4/22/05

4/22/05

80118. new heated.
HP 103/65. MTH.

flynt

ph.	Run 115604.	Als	D:in
	CCV#1 SmlOE + Sml(10TC(3)) + Sml(sun(30))	3	
810651	methal BK SmlOE + Sml(sun(30))	5	1/1
810652	20 PPBLCS SmlOE + Sml (Raf(20)) + Sml(sun(30))	5	1/1
NA 806873	806873 R25-25779	5	1/1
810653	MS S ₁ + SmlOE + Sml(10TC(3)) + Sml(sun(30))	7	↓
810654	MSP	7	↓
806883		8	1/1
806884		9	1/1
806885		10	1/1
806888		11	1/1
806890		12	1/1
806891		13	1/1
806892		14	1/1
CCV#2	See Above	15	
CCV#2	"	16	
NA 806894	806894 R25-25779	1	1/1
806895		2	1/1
806893		3	1/5
807470	807470 R25-25809	4	1/1
807471		5	1/1
CCV#3	See Above	6	
CCV#3	"	7	

All Samples sml + Sml(sun(30))

1° TC(50) GCV 80632
 TC Raf(20) GCV 80654
 Sun(30) GCV 80651

flynt 4/25/05

Als	D:in	OK?	File #
4		Y	1000
Y		Y	1001
Y		Y	1002
Y		Y	1003
Y		Y	1004
Y		Y	1005
Y		Y	1006
Y		Y	1007
Y		Y	1008
Y		Y	1009
Y		Y	1010
Y		Y	1011
Y		Y	1012
Y		Y	1013
Y		Y	1013
Y		Y	1015
Y		Y	1016
Y		Y	1017
Y		Y	1018
Y		Y	1019
Y		Y	1020

fix code

Line 1013

fix code

GENERAL CHEMISTRY DATA

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWNWEX.8 (8.0-8.5FT)

Date Sampled : 04/20/05 13:39

Order #: 807470

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/21/05

Submission #: R2525809

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	88.6	%	04/27/05	11:00	1.0

CP 9/27/07
95

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWWEX.8 (7.0-7.5FT)

Date Sampled : 04/20/05 13:50

Order #: 807471

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/21/05

Submission #: R2525809

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	84.0	%	04/27/05	11:00	1.0

CP 9/27/07
7/98

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWNEX.8 (12.0-12.5FT)

Date Sampled : 04/20/05 13:55

Order #: 807472

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/21/05

Submission #: R2525809

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	88.4	%	04/27/05	11:00	1.0

CP 9/27/07
99

COLUMBIA ANALYTICAL SERVICES

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : SWSEX.8 (9.0-9.5FT)

Date Sampled : 04/20/05 13:45

Order #: 807473

Sample Matrix: SOIL/SEDIMENT

Date Received: 04/21/05

Submission #: R2525809

ANALYTE	METHOD	PQL	RESULT	DRY WEIGHT UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
PERCENT SOLIDS	160.3M	1.0	83.7	%	04/27/05	11:00	1.0

CO 9/27/07
11
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REPORTED								DATE			
SUBMISSION	ORDER #	MATRIX	RESULT	DILUTION	PQL	% RECOVERY	% RSD	ANALYZED	QC	PKG #	
	809784	SOIL/SEDIME	1.00	1.0	1.0			04/27/2005			
R2525775	806662	SOIL/SEDIME	79.4	1.0	1.0			04/27/2005		ASPB	
R2525775	806663	SOIL/SEDIME	82.1	1.0	1.0			04/27/2005		ASPB	
R2525770	806611	SOIL/SEDIME	74.2	1.0	1.0			04/27/2005		6	
R2525770	806612	SOIL/SEDIME	70.5	1.0	1.0			04/27/2005		6	
	809785	SOIL/SEDIME	69.6	1.0	1.0		1.30	04/27/2005			
R2525770	806613	SOIL/SEDIME	71.6	1.0	1.0			04/27/2005		6	
R2525779	806850	SOIL/SEDIME	83.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806851	SOIL/SEDIME	91.1	1.0	1.0			04/27/2005	RUN	2	
	809786	SOIL/SEDIME	90.3	1.0	1.0		0.87	04/27/2005			
R2525779	806852	SOIL/SEDIME	90.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806853	SOIL/SEDIME	90.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806854	SOIL/SEDIME	89.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806855	SOIL/SEDIME	87.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806856	SOIL/SEDIME	83.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806857	SOIL/SEDIME	87.2	1.0	1.0			04/27/2005	RUN	2	
R2525779	806858	SOIL/SEDIME	92.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806859	SOIL/SEDIME	90.0	1.0	1.0			04/27/2005	RUN	2	
	809787	SOIL/SEDIME	89.2	1.0	1.0		0.93	04/27/2005			
R2525779	806860	SOIL/SEDIME	88.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806861	SOIL/SEDIME	89.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806862	SOIL/SEDIME	92.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806863	SOIL/SEDIME	92.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806864	SOIL/SEDIME	91.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806865	SOIL/SEDIME	81.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806866	SOIL/SEDIME	85.9	1.0	1.0			04/27/2005	RUN	2	
	809788	SOIL/SEDIME	84.7	1.0	1.0		1.42	04/27/2005			
R2525779	806867	SOIL/SEDIME	83.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806868	SOIL/SEDIME	83.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806869	SOIL/SEDIME	86.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806870	SOIL/SEDIME	84.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806871	SOIL/SEDIME	84.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806872	SOIL/SEDIME	83.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806873	SOIL/SEDIME	82.1	1.0	1.0			04/27/2005	RUN	2	
	809789	SOIL/SEDIME	83.6	1.0	1.0		1.83	04/27/2005			
R2525779	806874	SOIL/SEDIME	82.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806875	SOIL/SEDIME	82.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806876	SOIL/SEDIME	82.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806877	SOIL/SEDIME	81.5	1.0	1.0			04/27/2005	RUN	2	
R2525779	806878	SOIL/SEDIME	80.9	1.0	1.0			04/27/2005	RUN	2	
R2525779	806879	SOIL/SEDIME	85.0	1.0	1.0			04/27/2005	RUN	2	
R2525779	806880	SOIL/SEDIME	83.5	1.0	1.0			04/27/2005	RUN	2	
	809790	SOIL/SEDIME	84.5	1.0	1.0		1.15	04/27/2005			
R2525779	806881	SOIL/SEDIME	83.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806882	SOIL/SEDIME	87.7	1.0	1.0			04/27/2005	RUN	2	
R2525779	806883	SOIL/SEDIME	84.4	1.0	1.0			04/27/2005	RUN	2	
R2525779	806884	SOIL/SEDIME	85.6	1.0	1.0			04/27/2005	RUN	2	
R2525779	806885	SOIL/SEDIME	86.2	1.0	1.0			04/27/2005	RUN	2	
R2525779	806888	SOIL/SEDIME	90.8	1.0	1.0			04/27/2005	RUN	2	
R2525779	806890	SOIL/SEDIME	84.4	1.0	1.0			04/27/2005	RUN	2	
	809791	SOIL/SEDIME	83.5	1.0	1.0		1.10	04/27/2005			

Reviewed & Approved

By:

Date:

	<u>SUBMISSION</u>	<u>ORDER #</u>	<u>MATRIX</u>	<u>RESULT</u>	<u>DILUTION</u>	<u>PQL</u>	<u>% RECOVERY</u>	<u>% RSD</u>	<u>ANALYZED</u>	<u>QC</u>	<u>PKG #</u>
P	R2525779	806891	SOIL/SEDIME	82.5	1.0	1.0			04/27/2005	RUN	2
P	R2525779	806892	SOIL/SEDIME	86.0	1.0	1.0			04/27/2005	RUN	2
P	R2525779	806893	SOIL/SEDIME	85.2	1.0	1.0			04/27/2005	RUN	2
P	R2525779	806894	SOIL/SEDIME	89.0	1.0	1.0			04/27/2005	RUN	2
P	R2525779	806895	SOIL/SEDIME	88.7	1.0	1.0			04/27/2005	RUN	2
P	R2525779	807028	SOIL/SEDIME	83.6	1.0	1.0			04/27/2005	RUN	2
P	R2525770	806615	SOIL/SEDIME	52.3	1.0	1.0			04/27/2005		6
F		809792	SOIL/SEDIME	59.8	1.0	1.0		13.44	04/27/2005		
F	R2525770	806617	SOIL/SEDIME	76.6	1.0	1.0			04/27/2005		6
P	R2525809	807470	SOIL/SEDIME	88.6	1.0	1.0			04/27/2005	RUN	1
P	R2525809	807471	SOIL/SEDIME	84.0	1.0	1.0			04/27/2005	RUN	1
P	R2525809	807472	SOIL/SEDIME	88.4	1.0	1.0			04/27/2005	RUN	1
P	R2525809	807473	SOIL/SEDIME	83.7	1.0	1.0			04/27/2005	RUN	1
P	R2525816	807566	SOIL/SEDIME	86.4	1.0	1.0			04/27/2005		1
F		809793	SOIL/SEDIME	84.6	1.0	1.0		2.14	04/27/2005		
F	R2525816	807567	SOIL/SEDIME	87.8	1.0	1.0			04/27/2005		1
P	R2525816	807568	SOIL/SEDIME	85.6	1.0	1.0			04/27/2005		1
F	R2525825	807839	SOIL/SEDIME	82.6	1.0	1.0			04/27/2005	RUN	2
F		809794	SOIL/SEDIME	79.9	1.0	1.0		3.32	04/27/2005		
P	R2525770	806618	SOIL/SEDIME	63.1	1.0	1.0			04/27/2005		6
P	R2525770	806619	SOIL/SEDIME	76.2	1.0	1.0			04/27/2005		6
F	R2525770	806620	SOIL/SEDIME	44.6	1.0	1.0			04/27/2005		6
P	R2525770	806623	SOIL/SEDIME	76.4	1.0	1.0			04/27/2005	QC	6
P		809795	SOIL/SEDIME	76.4	1.0	1.0		0.04	04/27/2005		
F	R2525828	807872	SOIL/SEDIME	83.1	1.0	1.0			04/27/2005	RUN	2
F	R2525871	808522	SOIL/SEDIME	83.2	1.0	1.0			04/27/2005	RUN	ASPB
P	R2525871	808523	SOIL/SEDIME	94.6	1.0	1.0			04/27/2005	RUN	ASPB
F	R2525871	808525	SOIL/SEDIME	88.3	1.0	1.0			04/27/2005	RUN	ASPB
F	R2525871	808526	SOIL/SEDIME	90.2	1.0	1.0			04/27/2005	RUN	ASPB
P	R2525871	808527	SOIL/SEDIME	91.3	1.0	1.0			04/27/2005	RUN	ASPB
P	R2525871	808528	SOIL/SEDIME	89.8	1.0	1.0			04/27/2005	RUN	ASPB
F		809796	SOIL/SEDIME	89.8	1.0	1.0		0.05	04/27/2005		
F	R2525871	808529	SOIL/SEDIME	90.0	1.0	1.0			04/27/2005	RUN	ASPB
P	R2525871	808530	SOIL/SEDIME	90.9	1.0	1.0			04/27/2005	RUN	ASPB
F	R2525871	808531	SOIL/SEDIME	93.1	1.0	1.0			04/27/2005	RUN	ASPB
F	R2525871	808532	SOIL/SEDIME	90.4	1.0	1.0			04/27/2005	RUN	ASPB

Records printed: 87

SOLIDS REPORT

#: 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

PLATE: DWPS

T :

#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g)	TARE(g)	DIFF(g)	% SOLID	DISH ID	LS JOB#	LS LOC#
2	809784	R25 0	MBLK	(1.2200-1.2200)=0.0000			DRY*100 = 1.00	121		
				(1.2200-1.2200)=0.0000			WET			
3	806662	R2525775	ESMP	(10.4500-1.2600)=9.1900			DRY*100 = 79.40	15		
				(12.8400-1.2600)=11.5800			WET			
4	806663	R2525775	ESMP	(9.6800-1.2700)=8.4100			DRY*100 = 82.10	16		
				(11.5100-1.2700)=10.2400			WET			
5	806611	R2525770	ESMP	(9.3300-1.2700)=8.0600			DRY*100 = 74.20	17		
				(12.1300-1.2700)=10.8600			WET			
6	806612	R2525770	ESMP	(9.3900-1.2800)=8.1100			DRY*100 = 70.50	18		
				(12.7900-1.2800)=11.5100			WET			
7	809785	R25 0	DUPE	(9.2900-1.2800)=8.0100			DRY*100 = 69.60	19		
				(12.7900-1.2800)=11.5100			WET			
9	806613	R2525770	ESMP	(8.7600-1.3100)=7.4500			DRY*100 = 71.60	20		
				(11.7100-1.3100)=10.4000			WET			
0	806850	R2525779	ESMP	(9.7600-1.2800)=8.4800			DRY*100 = 83.00	21		
				(11.4900-1.2800)=10.2100			WET			
1	806851	R2525779	ESMP	(10.6500-1.2700)=9.3800			DRY*100 = 91.10	22		
				(11.5700-1.2700)=10.3000			WET			
2	809786	R25 0	DUPE	(10.9900-1.3000)=9.6900			DRY*100 = 90.30	23		
				(12.0300-1.3000)=10.7300			WET			
4	806852	R2525779	ESMP	(10.8500-1.2800)=9.5700			DRY*100 = 90.80	24		
				(11.8200-1.2800)=10.5400			WET			
5	806853	R2525779	ESMP	(11.1000-1.2700)=9.8300			DRY*100 = 90.80	25		
				(12.1000-1.2700)=10.8300			WET			
6	806854	R2525779	ESMP	(10.4800-1.2700)=9.2100			DRY*100 = 89.60	26		
				(11.5500-1.2700)=10.2800			WET			
7	806855	R2525779	ESMP	(11.2800-1.2700)=10.0100			DRY*100 = 87.00	27		
				(12.7800-1.2700)=11.5100			WET			
8	806856	R2525779	ESMP	(10.3900-1.2500)=9.1400			DRY*100 = 83.50	28		
				(12.2000-1.2500)=10.9500			WET			
9	806857	R2525779	ESMP	(10.8100-1.3000)=9.5100			DRY*100 = 87.20	29		
				(12.2000-1.3000)=10.9000			WET			
0	806858	R2525779	ESMP	(10.9800-1.2800)=9.7000			DRY*100 = 92.60	30		
				(11.7500-1.2800)=10.4700			WET			
1	806859	R2525779	ESMP	(10.8000-1.2200)=9.5800			DRY*100 = 90.00	31		
				(11.8600-1.2200)=10.6400			WET			
2	809787	R25 0	DUPE	(10.7600-1.2100)=9.5500			DRY*100 = 89.20	32		
				(11.9200-1.2100)=10.7100			WET			
4	806860	R2525779	ESMP	(10.7700-1.2200)=9.5500			DRY*100 = 88.50	33		
				(12.0100-1.2200)=10.7900			WET			
5	806861	R2525779	ESMP	(10.6600-1.2100)=9.4500			DRY*100 = 89.50	34		
				(11.7700-1.2100)=10.5600			WET			
6	806862	R2525779	ESMP	(11.7500-1.2000)=10.5500			DRY*100 = 92.80	35		
				(12.5700-1.2000)=11.3700			WET			
7	806863	R2525779	ESMP	(11.3500-1.2000)=10.1500			DRY*100 = 92.00	36		
				(12.2300-1.2000)=11.0300			WET			
8	806864	R2525779	ESMP	(11.0000-1.2200)=9.7800			DRY*100 = 91.70	37		
				(11.8800-1.2200)=10.6600			WET			
9	806865	R2525779	ESMP	(10.4200-1.2100)=9.2100			DRY*100 = 81.00	38		
				(12.5800-1.2100)=11.3700			WET			

SOLIDS REPORT

: 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

ATE: DWPS

T :

		CONTROL		GROSS(g)	TARE(g)	DIFF(g)	% SOLID	DISH ID	LS	LS
ORDER #	SUBMISSION	TYPE							JOB#	LOC#
0	806866 R2525779	ESMP	(10.5900-1.2100)=9.3800			DRY*100 =	85.90	39		
			(12.1300-1.2100)=10.9200			WET				
	809788 R25 0	DUPE	(11.2200-1.2100)=10.0100			DRY*100 =	84.70	40		
			(13.0300-1.2100)=11.8200			WET				
3	806867 R2525779	ESMP	(11.1600-1.2600)=9.9000			DRY*100 =	83.80	41		
			(13.0700-1.2600)=11.8100			WET				
	806868 R2525779	ESMP	(10.2600-1.2700)=8.9900			DRY*100 =	83.80	42		
			(12.0000-1.2700)=10.7300			WET				
	806869 R2525779	ESMP	(10.7600-1.2300)=9.5300			DRY*100 =	86.80	43		
			(12.2100-1.2300)=10.9800			WET				
6	806870 R2525779	ESMP	(10.3600-1.2600)=9.1000			DRY*100 =	84.80	44		
			(11.9900-1.2600)=10.7300			WET				
	806871 R2525779	ESMP	(10.3800-1.2600)=9.1200			DRY*100 =	84.60	45		
			(12.0400-1.2600)=10.7800			WET				
8	806872 R2525779	ESMP	(10.4900-1.2600)=9.2300			DRY*100 =	83.70	46		
			(12.2900-1.2600)=11.0300			WET				
	806873 R2525779	ESMP	(10.5200-1.1900)=9.3300			DRY*100 =	82.10	47		
			(12.5500-1.1900)=11.3600			WET				
0	809789 R25 0	DUPE	(11.0100-1.2100)=9.8000			DRY*100 =	83.60	48		
			(12.9300-1.2100)=11.7200			WET				
2	806874 R2525779	ESMP	(10.6800-1.2100)=9.4700			DRY*100 =	82.80	49		
			(12.6500-1.2100)=11.4400			WET				
	806875 R2525779	ESMP	(10.3800-1.2400)=9.1400			DRY*100 =	82.70	50		
			(12.2900-1.2400)=11.0500			WET				
4	806876 R2525779	ESMP	(9.9600-1.2300)=8.7300			DRY*100 =	82.00	51		
			(11.8800-1.2300)=10.6500			WET				
	806877 R2525779	ESMP	(10.4100-1.2200)=9.1900			DRY*100 =	81.50	52		
			(12.5000-1.2200)=11.2800			WET				
6	806878 R2525779	ESMP	(10.4000-1.2100)=9.1900			DRY*100 =	80.90	53		
			(12.5700-1.2100)=11.3600			WET				
	806879 R2525779	ESMP	(11.0700-1.2400)=9.8300			DRY*100 =	85.00	54		
			(12.8000-1.2400)=11.5600			WET				
	806880 R2525779	ESMP	(10.1600-1.2100)=8.9500			DRY*100 =	83.50	55		
			(11.9300-1.2100)=10.7200			WET				
9	809790 R25 0	DUPE	(10.3100-1.2300)=9.0800			DRY*100 =	84.50	56		
			(11.9800-1.2300)=10.7500			WET				
	806881 R2525779	ESMP	(10.8400-1.1900)=9.6500			DRY*100 =	83.80	57		
			(12.7000-1.1900)=11.5100			WET				
2	806882 R2525779	ESMP	(10.7300-1.2100)=9.5200			DRY*100 =	87.70	58		
			(12.0600-1.2100)=10.8500			WET				
	806883 R2525779	ESMP	(10.2000-1.2200)=8.9800			DRY*100 =	84.40	59		
			(11.8600-1.2200)=10.6400			WET				
	806884 R2525779	ESMP	(10.0900-1.2300)=8.8600			DRY*100 =	85.60	60		
			(11.5800-1.2300)=10.3500			WET				
5	806885 R2525779	ESMP	(10.5000-1.2300)=9.2700			DRY*100 =	86.20	61		
			(11.9900-1.2300)=10.7600			WET				
	806888 R2525779	ESMP	(10.9600-1.2400)=9.7200			DRY*100 =	90.80	62		
			(11.9400-1.2400)=10.7000			WET				
7	806890 R2525779	ESMP	(11.0400-1.2100)=9.8300			DRY*100 =	84.40	64		
			(12.8500-1.2100)=11.6400			WET				

SOLIDS REPORT

#: 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

PLATE: DWPS

T :

#	ORDER #	SUBMISSION	CONTROL TYPE	GROSS(g)	TARE(g)	DIFF(g)	% SOLID	DISH ID	LS JOB#	LS LOC#
8	809791	R25 0	DUPE	(10.9700-1.2200)=9.7500 (12.9000-1.2200)=11.6800			DRY*100 = 83.50 WET	65		
0	806891	R2525779	ESMP	(9.8600-1.2300)=8.6300 (11.6900-1.2300)=10.4600			DRY*100 = 82.50 WET	66		
1	806892	R2525779	ESMP	(10.6700-1.2000)=9.4700 (12.2100-1.2000)=11.0100			DRY*100 = 86.00 WET	67		
2	806893	R2525779	ESMP	(10.5900-1.2200)=9.3700 (12.2100-1.2200)=10.9900			DRY*100 = 85.20 WET	68		
3	806894	R2525779	ESMP	(10.5100-1.2100)=9.3000 (11.6600-1.2100)=10.4500			DRY*100 = 89.00 WET	59		
4	806895	R2525779	ESMP	(10.6000-1.2300)=9.3700 (11.7900-1.2300)=10.5600			DRY*100 = 88.70 WET	70		
5	807028	R2525779	ESMP	(10.6700-1.2000)=9.4700 (12.5300-1.2000)=11.3300			DRY*100 = 83.60 WET	71		
6	806615	R2525770	ESMP	(6.6400-1.2300)=5.4100 (11.5800-1.2300)=10.3500			DRY*100 = 52.30 WET	73		
7	809792	R25 0	DUPE	(7.7700-1.2300)=6.5400 (12.1600-1.2300)=10.9300			DRY*100 = 59.80 WET	74		
9	806617	R2525770	ESMP	(9.0700-1.2300)=7.8400 (11.4600-1.2300)=10.2300			DRY*100 = 76.60 WET	75		
0	807470	R2525809	ESMP	(10.9800-1.2200)=9.7600 (12.2300-1.2200)=11.0100			DRY*100 = 88.60 WET	76		
1	807471	R2525809	ESMP	(10.8000-1.2000)=9.6000 (12.6300-1.2000)=11.4300			DRY*100 = 84.00 WET	77		
2	807472	R2525809	ESMP	(10.2400-1.2700)=8.9700 (11.4200-1.2700)=10.1500			DRY*100 = 88.40 WET	78		
3	807473	R2525809	ESMP	(9.9600-1.2200)=8.7400 (11.6600-1.2200)=10.4400			DRY*100 = 83.70 WET	79		
4	807566	R2525816	ESMP	(11.3000-1.2300)=10.0700 (12.8800-1.2300)=11.6500			DRY*100 = 86.40 WET	80		
5	809793	R25 0	DUPE	(10.0900-1.2100)=8.8800 (11.7100-1.2100)=10.5000			DRY*100 = 84.60 WET	82		
7	807567	R2525816	ESMP	(10.9100-1.2300)=9.6800 (12.2500-1.2300)=11.0200			DRY*100 = 87.80 WET	83		
8	807568	R2525816	ESMP	(11.0200-1.2200)=9.8000 (12.6700-1.2200)=11.4500			DRY*100 = 85.60 WET	84		
9	807839	R2525825	ESMP	(11.1500-1.2500)=9.9000 (13.2400-1.2500)=11.9900			DRY*100 = 82.60 WET	1		
0	809794	R25 0	DUPE	(11.0300-1.2900)=9.7400 (13.4800-1.2900)=12.1900			DRY*100 = 79.90 WET	2		
2	806618	R2525770	ESMP	(8.7500-1.2200)=7.5300 (13.1500-1.2200)=11.9300			DRY*100 = 63.10 WET	85	D3	
3	806619	R2525770	ESMP	(9.6600-1.2200)=8.4400 (12.2900-1.2200)=11.0700			DRY*100 = 76.20 WET	86	D3	
4	806620	R2525770	ESMP	(6.3300-1.2300)=5.1000 (12.6500-1.2300)=11.4200			DRY*100 = 44.60 WET	87	D3	
5	806623	R2525770	ESMP	(8.9400-1.2100)=7.7300 (11.3200-1.2100)=10.1100			DRY*100 = 76.40 WET	88	D3	
5	809795	R25 0	DUPE	(9.7400-1.2100)=8.5300 (12.3700-1.2100)=11.1600			DRY*100 = 76.40 WET	89		

SOLIDS REPORT

I : 115400 ANALYSIS DATE: 04/27/2005 ASSIGNED TO :

I ATE: DWPS

IT :

CONTROL								LS	LS
ORDER #	SUBMISSION	TYPE	GROSS(g)	TARE(g)	DIFF(g)	% SOLID	DISH ID	JOB#	LOC#
8	807872	R2525828	ESMP	(10.2500-1.2700)=8.9800		DRY*100 = 83.10	3		
				(12.0800-1.2700)=10.8100		WET			
9	808522	R2525871	ESMP	(10.9600-1.2700)=9.6900		DRY*100 = 83.20	4		
				(12.9200-1.2700)=11.6500		WET			
10	808523	R2525871	ESMP	(11.8600-1.2700)=10.5900		DRY*100 = 94.60	5		
				(12.4600-1.2700)=11.1900		WET			
11	808525	R2525871	ESMP	(10.4700-1.2800)=9.1900		DRY*100 = 88.30	6		
				(11.6900-1.2800)=10.4100		WET			
12	808526	R2525871	ESMP	(11.3900-1.2900)=10.1000		DRY*100 = 90.20	7		
				(12.4900-1.2900)=11.2000		WET			
13	808527	R2525871	ESMP	(10.7100-1.2700)=9.4400		DRY*100 = 91.30	8		
				(11.6100-1.2700)=10.3400		WET			
14	808528	R2525871	ESMP	(10.5300-1.2600)=9.2700		DRY*100 = 89.80	9		
				(11.5800-1.2600)=10.3200		WET			
15	809796	R25 0	DUPE	(10.6500-1.2800)=9.3700		DRY*100 = 89.80	10		
				(11.7200-1.2800)=10.4400		WET			
16	808529	R2525871	ESMP	(10.8200-1.2700)=9.5500		DRY*100 = 90.00	11		
				(11.8800-1.2700)=10.6100		WET			
17	808530	R2525871	ESMP	(11.2700-1.2800)=9.9900		DRY*100 = 90.90	12		
				(12.2700-1.2800)=10.9900		WET			
18	808531	R2525871	ESMP	(11.3300-1.2800)=10.0500		DRY*100 = 93.10	13		
				(12.0700-1.2800)=10.7900		WET			
19	808532	R2525871	ESMP	(10.5400-1.2800)=9.2600		DRY*100 = 90.40	14		
				(11.5200-1.2800)=10.2400		WET			

MB Dish #121

0A

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: KML

Date: 4/27/05

Time: 10:00

"S" weight

initial: 10.01

final: 10.00

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
807839	R25- -25825	1	13.24 1.25	Gross Tare Diff.	11.15	
307839 DUP	↓	2	13.48 1.29	Gross Tare Diff.	11.03	
807872	R25- 25828	3	12.08 1.27	Gross Tare Diff.	10.25	
808522	R25- 25871	4	12.92 1.27	Gross Tare Diff.	10.96	
808523	↓	5	12.46 1.27	Gross Tare Diff.	11.86	
808525	↓	6	11.69 1.28	Gross Tare Diff.	10.47	
808526	↓	7	12.49 1.29	Gross Tare Diff.	11.39	
808527	↓	8	11.61 1.27	Gross Tare Diff.	10.71	

#08

→ MB #2

Dry Weight Percent Solids

Analyst: UNC

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Date: 4/27/05 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
	R25-		11.58	Gross	10.53	
808528	25871	9	1.26	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			11.72	Gross	10.65	
08528		10	1.28	Tare		
DUP				Diff.		
=====	=====	=====	=====	=====	=====	=====
			11.88	Gross	10.82	
08529		11	1.27	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.27	Gross	11.27	
808530		12	1.28	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			12.07	Gross	11.33	
308531		13	1.28	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
			11.52	Gross	10.54	
708532		14	1.28	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross		
				Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross		
				Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====

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→ MB#3

#1

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: KMC

Date: 4/27/05 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
806662	R25 - 25775	15	12.84 1.26	Gross Tare	10.45	
806663	R25 - 25775	16	11.51 1.27	Gross Tare	9.68	
806611		17	12.13 1.27	Gross Tare	9.33	
806612		18	12.79 1.28	Gross Tare	9.39	
806612 DWP		19	12.79 1.28	Gross Tare	9.29	
806613		20	11.71 1.31	Gross Tare	8.76	
806850	R25 - 25779	21	11.49 1.28	Gross Tare	9.76	
806851		22	11.57 1.27	Gross Tare	10.65	

#2

→ MB #4

Dry Weight Percent Solids

Analyst: KMC

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Date: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
806851	R25-25779	23	12.03	Gross	10.99	
DWP			1.30	Tare		
				Diff.		
806852		24	11.82	Gross	10.85	
			1.28	Tare		
				Diff.		
806853		25	12.10	Gross	11.10	
			1.27	Tare		
				Diff.		
806854		26	11.55	Gross	10.48	
			1.27	Tare		
				Diff.		
806855		27	12.78	Gross	11.28	
			1.27	Tare		
				Diff.		
806856		28	12.20	Gross	10.39	
			1.25	Tare		
				Diff.		
806857		29	12.20	Gross	10.81	
			1.30	Tare		
				Diff.		
806858		30	11.75	Gross	10.98	
			1.28	Tare		
				Diff.		

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#3

→ MB #5

Dry Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: KMCDate: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
306859	R25-25779	31	11.86 1.22	Gross Tare	10.80	
=====	=====	=====	=====	=====	=====	=====
806859		32	11.92 1.21	Gross Tare	10.76	
=====	=====	=====	=====	=====	=====	=====
806860		33	12.01 1.22	Gross Tare	10.77	
=====	=====	=====	=====	=====	=====	=====
806861		34	11.77 1.21	Gross Tare	10.66	
=====	=====	=====	=====	=====	=====	=====
806862		35	12.57 1.20	Gross Tare	11.75	
=====	=====	=====	=====	=====	=====	=====
306863		36	12.23 1.20	Gross Tare	11.35	
=====	=====	=====	=====	=====	=====	=====
806864		37	11.88 1.22	Gross Tare	11.00	
=====	=====	=====	=====	=====	=====	=====
306865		38	12.58 1.21	Gross Tare	10.42	
=====	=====	=====	=====	=====	=====	=====

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→ MB# 6

#4

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: KMC

Date: 4/27/05 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
	R25 -		12.13	Gross	10.59	
306866	25779	39	1.21	Tare		
				Diff.		
			13.03	Gross	11.22	
306866		40	1.21	Tare		
DWD				Diff.		
			13.07	Gross	11.16	
306867		41	1.26	Tare		
				Diff.		
			12.00	Gross	10.26	
306868		42	1.27	Tare		
				Diff.		
			12.21	Gross	10.76	
306869		43	1.23	Tare		
				Diff.		
			11.99	Gross	10.36	
306870		44	1.26	Tare		
				Diff.		
			12.04	Gross	10.38	
306871		45	1.26	Tare		
				Diff.		
			12.29	Gross	10.49	
306872		46	1.26	Tare		
				Diff.		

#5

→ MB # 7

Dry Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: UNCDate: 4/27/05 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
306873	R25-25779	47	12.55 1.19	Gross Tare	10.52	
=====	=====	=====	=====	=====	=====	=====
00873 DUP		48	12.93 1.21	Gross Tare	11.01	
=====	=====	=====	=====	=====	=====	=====
306874		49	12.65 1.21	Gross Tare	10.68	
=====	=====	=====	=====	=====	=====	=====
306875		50	12.29 1.24	Gross Tare	10.38	
=====	=====	=====	=====	=====	=====	=====
306876		51	11.88 1.23	Gross Tare	9.96	
=====	=====	=====	=====	=====	=====	=====
306877		52	12.50 1.22	Gross Tare	10.41	
=====	=====	=====	=====	=====	=====	=====
306878		53	12.57 1.21	Gross Tare	10.40	
=====	=====	=====	=====	=====	=====	=====
306879	✓	54	12.80 1.24	Gross Tare	11.07	
=====	=====	=====	=====	=====	=====	=====

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→ MB #8

ID
29
1.19

#6

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: KMC

Date: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
306880	R25-	55	11.93	Gross	10.16	
	25779		1.21	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
06880		56	11.98	Gross	10.31	
DUP			1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
306881		57	12.70	Gross	10.84	
			1.19	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806882		58	12.06	Gross	10.73	
			1.21	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806883		59	11.86	Gross	10.20	
			1.22	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
306884		60	11.58	Gross	10.09	
			1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
306885		61	11.99	Gross	10.50	
			1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
806888		62	11.94	Gross	10.96	
			1.24	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====

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MB #9

IP 63
1.23

1.24

#7

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609Analyst: uncDate: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
806890	R25- 25779	64	12.85 1.21	Gross Tare	11.04	
806890		65	12.90 1.22	Gross Tare	10.97	
806891		66	11.69 1.23	Gross Tare	9.86	
806892		67	12.21 1.20	Gross Tare	10.67	
806893		68	12.21 1.22	Gross Tare	10.59	
806894		69	11.66 1.21	Gross Tare	10.51	
806895		70	11.79 1.23	Gross Tare	10.60 10.67	wrote in wrong box
807028		71	12.53 1.20	Gross Tare	10.67	

#8

Dry Weight Percent Solids

Analyst: UNCDate: 4/27/05

Time: _____

"S" weight initial: _____

final: _____

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
800615	R25- 25770	73	11.58 1.23	Gross Tare	6.64	
806615 DUP	↓	74	12.16 1.23	Gross Tare	7.77	
806617	↓	75	11.46 1.23	Gross Tare	9.07	
807470	R25- 25809	76	12.23 1.22	Gross Tare	10.98	
07471	R25- ↓	77	12.63 1.20	Gross Tare	10.80	
307472	↓	78	11.42 1.25 1.24	Gross Tare	10.24	
807473	↓	79	11.66 1.22	Gross Tare	9.96	
807566	R25- 25816	80	12.88 1.23	Gross Tare	11.30	

#9

→ MB # 11 #81

Dry Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: LMCDate: 4/27/05

Time: _____

"S" weight initial: _____

final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
07566 DWP	R25- 25816	81 LMC 82	11.71 1.21	Gross Tare	10.09	
07567	↓	83	12.25 1.23	Gross Tare	10.91	
07568	↓	84	12.67 1.22	Gross Tare	11.02	
07839	R25- 25825			Gross Tare		
				Diff.		
06618	22 R25- 25770	85	13.15 1.22	Gross Tare	8.75	
806619	↓	86	12.29 1.22	Gross Tare	9.66	
306620	↓	87	12.65 1.23	Gross Tare	6.33	
06623	↓	88	11.32 1.21	Gross Tare	8.94	
				Diff.		

moved to beginning of run
prior to analysisLMC
switched
order due to R

10

Dry Weight Percent Solids

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Analyst: KMXDate: 4/27/05

Time: _____

"S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
DO6623	R25-		12.37	Gross	9.74	
DWD	25770	89	1.21	Tare		
=====	=====	=====	=====	=====	=====	=====
				Diff.		
				Gross	1.22	
				Tare		
MB#1		121	1.22	Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.21	
				Tare		
MB#2		122	1.21	Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.22	
				Tare		
MB#3		123	1.21	Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.21	
				Tare		
MB#4		124	1.22	Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.21	
				Tare		
MB#5		128	1.21	Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.22	
				Tare		
MB#6		135	1.21	Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.23	
				Tare		
MB#7		116	1.21	Diff.		
=====	=====	=====	=====	=====	=====	=====

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#11

Dry Weight Percent Solids

Columbia Analytical Services
1 Mustard Street
Rochester, NY 14609

Analyst: KMC

Date: 4/27/05 Time: _____ "S" weight initial: _____ final: _____

Order #	Submission	Dish I.D.	Wet Weight (g)		Dry Weight (g)	Percent Solid
=====	=====	=====	=====	=====	=====	=====
				Gross	1.21	
MB#10		#72	1.19	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.22	
MB#11		81	1.20	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.22	
MB#12		115	1.22	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross	1.24	
MB#9		63	1.23	Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross		
				Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross		
				Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross		
				Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====
				Gross		
				Tare		
				Diff.		
=====	=====	=====	=====	=====	=====	=====

KMC 4/27/05

October 4, 2007

Mr. Gary Stern
Stern Properties
274 North Goodman Street
Rochester, NY 14607

Re: Soil Removal IRM 320 N. Goodman Street
Submission #R2525779

Dear Mr. Stern:

Enclosed is an analytical data report for the above referenced project. A total of forty-four samples were received by our laboratory on April 19, 2005.

This project was originally submitted to our lab and reported to you as a Package III (Results with QC Summary). Per request of Craig Stiles of LaBella Associates, a Package IV (ASP-B Validatable Report) is now needed. The Package IV report is enclosed.

Any problems encountered with this project are addressed in a case narrative section, which is presented later in this report.

All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Sincerely,
COLUMBIA ANALYTICAL SERVICES



Carlton Beechler
Project Chemist

CC Mr. Craig Stiles
LaBella Associates
300 State St. Suite 201
Rochester, NY 14614

enc.



1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Stern Properties
Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105
Lab Submission # : R2525779
Project Manager : ~~Amy Hentschke~~ *Carl Beecher*
Reported : 05/04/05

Report Contains a total of 1257 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. *Michael K. Perry*

SDG NARRATIVE

CASE NARRATIVE – PAGE 1 of 2

COMPANY: Stern Properties
Soil Removal IRM 320 N. Goodman Street #041105
SUBMISSION #: R2525779

Stern samples were collected on 4/12-15/05 and received at CAS on 4/19/05 in good condition.

INORGANICS

Four soil samples were analyzed for a site specific list of inorganic parameters. Please see attached data pages for method numbers.

Site specific QC was not requested for these samples. All Blank spike recoveries were within limits.

No other analytical or QC problems were encountered.

VOLATILE ORGANICS

Thirty nine soil samples were analyzed for the STARS list of Volatiles by method 8021B from SW-846. Four soil samples were analyzed for the TCL list of Volatiles by method 8260B from SW-846.

Hits between the MDL and PQL cannot be reported due to software conflicts with the older data.

All tuning criteria for BFB were met.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within acceptance limits for all samples.

Site specific QC was performed on sample STOCKPILE 4 for 8260B and EX.4 BOTTOM (15.0FT) for 8021B. All Matrix Spike (MS) and Matrix Spike Duplicates (MDS) meet acceptance criteria. All Relative Percent Differences (RPD) between the MS/MSD meet acceptance criteria.

All Blank Spike recoveries were within limits.

The Laboratory Blanks associated with these analyses were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

Four soil samples were analyzed for the TCL list of Semivolatiles by method 8270C.

Hits between the MDL and PQL cannot be reported due to software conflicts with the older data.

All tuning criteria for DFTPP were met.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within limits.

Site specific QC was not requested for these samples. All Blank Spike/Blank Spike duplicate recoveries were within limits. All RPD's were within limits.

The Laboratory Blank associated with these analyses was free of contamination.

No other analytical or QC problems were encountered.

PESTICIDES/PCB'S

Four soil samples were analyzed for Pesticides/PCB's by methods 8081/8082 from SW-846.

All the initial and continuing calibration criteria were met for all analytes.

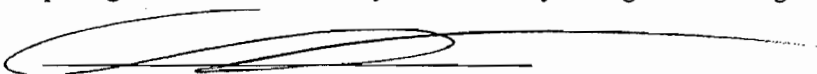
All surrogate standard recoveries were within limits.

Site specific QC was not requested for these samples. All Blank Spike/Blank Spike Duplicate recoveries were within limits with the exception on 4,4'-DDD and Methoxychlor for the Blank Spike and Heptachlor Epoxide, 4,4'-DDD and Methoxychlor for the Blank Spike Duplicate for the 8081 analysis. No data was affected. All RPD's were within limits, except for Aldrin, Gamma-BHC, and Heptachlor for the 8081 analysis and are flagged with an "**".

The Laboratory Blank associated with these analyses was free of contamination.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:



CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS
806850	SWN EX.4 (7.0-7.5ft)	Soil	8021,*	4/13/2005	4/19/2005			
806851	Stockpile 1	Soil	8260,8021,8270,8081,8082,**	4/12/2005	4/19/2005			
806852	Stockpile 2	Soil	8260,8021,8270,8081,8082,**	4/12/2005	4/19/2005			
806853	Stockpile 3	Soil	8260,8021,8270,8081,8082,**	4/12/2005	4/19/2005			
806854	Stockpile 4	Soil	8260,8021,8270,8081,8082,**	4/12/2005	4/19/2005			
806855	EX.2 Bottom (3.0ft)	Soil	8021,*	4/12/2005	4/19/2005			
806856	SWN EX.2 (2.5-3.0FT)	Soil	8021,*	4/12/2005	4/19/2005			
806857	SWW EX.2 (2.5-3.0FT)	Soil	8021,*	4/12/2005	4/19/2005			
806858	SWE EX.2 (2.5-3.0FT)	Soil	8021,*	4/12/2005	4/19/2005			
806859	SWS EX.2 (2.5-3.0FT)	Soil	8021,*	4/12/2005	4/19/2005			
806860	EX.1 BOTTOM (15.0FT)	Soil	8021,*	4/12/2005	4/19/2005			
806861	SWE EX.1 (10.0-10.5FT)	Soil	8021,*	4/12/2005	4/19/2005			
806862	SWW EX.1 (8.0-8.5FT)	Soil	8021,*	4/12/2005	4/19/2005			
806863	SWN EX.1 (7.0-7.5FT)	Soil	8021,*	4/12/2005	4/19/2005			
806864	SWS EX.1 (7.0-7.5FT)	Soil	8021,*	4/12/2005	4/19/2005			
806865	SWS EX.3 (8.0-8.5FT)	Soil	8021,*	4/13/2005	4/19/2005			
806866	SWE EX.3 (8.0-9.0FT)	Soil	8021,*	4/13/2005	4/19/2005			
806867	SWW EX.3 (8.0-9.0FT)	Soil	8021,*	4/13/2005	4/19/2005			
806868	SWN EX.3 (8.0-9.0FT)	Soil	8021,*	4/13/2005	4/19/2005			
806869	EX.1 BACKFILL	Soil	8021,*	4/13/2005	4/19/2005			
806870	EX.3 BACKFILL	Soil	8021,*	4/13/2005	4/19/2005			
806871	SWW EX.4 (12.0-13.0FT)	Soil	8021,*	4/13/2005	4/19/2005			
806872	SWE EX.4 (10.0-10.5FT)	Soil	8021,*	4/13/2005	4/19/2005			
806873	EX.4 BOTTOM (15.0FT)	Soil	8021,*	4/13/2005	4/19/2005			
806874	SWS EX.4 (14.0-14.5FT)	Soil	8021,*	4/13/2005	4/19/2005			
806875	SWN EX.5 (7.0-7.5FT)	Soil	8021,*	4/14/2005	4/19/2005			
806876	SWE EX.5 (10.0-10.5FT)	Soil	8021,*	4/14/2005	4/19/2005			
806877	SWW EX.5 (6.0-6.5FT)	Soil	8021,*	4/14/2005	4/19/2005			
806878	SWS EX.5 (9.0-9.5FT)	Soil	8021,*	4/14/2005	4/19/2005			
806879	EX.5 BOTTOM (15.0FT)	Soil	8021,*	4/14/2005	4/19/2005			
806880	SWN EX.6 (5.0-5.5FT)	Soil	8021,*	4/14/2005	4/19/2005			

[illegible]



ORGANIC QUALIFIERS

- U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).
- Q - for DoD only - indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is $\geq 100\%$ difference for the detected concentrations between the two GC columns.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - As specified in Case Narrative.
- * - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved

Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292



INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AF" for Automated Cold Vapor Atomic Fluorescence Spectrometry
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

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Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
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Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292

CHAINS OF CUSTODY

INTERNAL CHAINS



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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Project Name Soil Remediation 320 North Goodman St.				Project Number 041105				ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																											
Project Manager Gary Stern				Report CC				PRESERVATIVE																																											
Company/Address Stern Properties																																																			
274 North Goodman Street																																																			
Rochester NY																																																			
Phone # (585) 442-9061				FAX#																																															
Sampler's Signature Stephen DeWoo				Sampler's Printed Name Stephen DeWoo																																															
FOR OFFICE USE ONLY				SAMPLING DATE, TIME				MATRIX				NUMBER OF CONTAINERS				PRESERVATIVE																																			
CLIENT SAMPLE ID				LAB ID																																															
EX.2 Bottom (3.0ft)				806855				4/12/05 1230				Soil																																							
SWN EX.2 (2.5-3.0ft)				56				4/12/05 1235				Soil																																							
SWN EX.2 (2.5-3.0ft)				57				4/12/05 1240				Soil																																							
SWE EX.2 (2.5-3.0ft)				58				4/12/05 1245				Soil																																							
SWS EX.2 (2.5-3.0ft)				59				4/12/05 1250				Soil																																							
EX.1 Bottom (15.0ft)				60				4/12/05 1510				Soil																																							
SWE EX.1 (10.0-10.5ft)				61				4/12/05 1530				Soil																																							
SWW EX.1 (8.0-8.5ft)				62				4/12/05 1540				Soil																																							
SWN EX.1 (7.0-7.5ft)				63				4/12/05 1545				Soil																																							
SW S EX.1 (7.0-7.5ft)				806864				4/12/05 1555				Soil																																							
SPECIAL INSTRUCTIONS/COMMENTS Metals																TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE												REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MSMSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report Edata Yes No												INVOICE INFORMATION PO# BILL TO: SUBMISSION # R2525779											
See QAPP ☐																CUSTODY SEALS: Y N												RECEIVED BY												RELINQUISHED BY											
SAMPLE RECEIPT: CONDITION/COOLER TEMP:																RECEIVED BY												RELINQUISHED BY												RECEIVED BY											
Signature Stephen DeWoo																Signature Gregory O. Smorian												Signature												Signature											
Printed Name Stephen DeWoo																Printed Name Gregory O. Smorian												Printed Name												Printed Name											
Firm DeWoo Environmental																Firm CAS												Firm												Firm											
Date/Time 0910 4/19/05																Date/Time 4/19/05 0910												Date/Time												Date/Time											



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Project Name Soil Remediation 320 North Goodman St		Project Number 041105		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																							
Project Manager GARY STEIN		Report CC		PRESERVATIVE																																							
Company Address Stern Properties 274 North Goodman Street Rochester NY		Phone # (585) 442-9061		FAX #		NUMBER OF CONTAINERS																																					
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name Stephen DeMuro GeoEast Env.		FOR OFFICE USE ONLY LAB ID		SAMPLING DATE		SAMPLING TIME		MATRIX		PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other																															
CLIENT SAMPLE ID SWSEX.3 (8.0-8.5ft)		LAB ID 806865		SAMPLING DATE 4/13/05		SAMPLING TIME 1300		MATRIX Soil				REMARKS/ ALTERNATE DESCRIPTION																															
SWSEX.3 (8.0-9.0ft)		66		4/13/05		1310		Soil				METALS, TOTAL (List in comments below)																															
SWWEX.3 (8.0-9.0ft)		67		4/13/05		1315		Soil				METALS, DISSOLVED (List in comments below)																															
SWNEX.3 (8.0-9.0ft)		68		4/13/05		1330		Soil				PCB's (List in comments below)																															
EX.1 Backfill		69		4/12/05		1600		Soil				PESTICIDES (List in comments below)																															
EX.3 Backfill		70		4/13/05		1400		Soil				GCMS VOAS (List in comments below)																															
SWWEX.4 (12.0-13.0ft)		71		4/13/05		1530		Soil				GCMS SVOAS (List in comments below)																															
SWWEX.4 (10.0-11.5ft)		72		4/13/05		1525		Soil				GCMS VOAS (List in comments below)																															
EX.4 Backfill (15.0ft)		73		4/13/05		1610		Soil				GCMS SVOAS (List in comments below)																															
SWSEX.4 (14.0-15.5ft)		806874		4/13/05		1540		Soil				GCMS VOAS (List in comments below)																															
SPECIAL INSTRUCTIONS/COMMENTS Metals														TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE										REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MSMDS as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report Edata Yes No										INVOICE INFORMATION PO# BILL TO: SUBMISSION# RECEIVED BY									
SAMPLE RECEIPT: CONDITION/COOLER TEMP: RECEIVED BY RELINQUISHED BY														CUSTODY SEALS: Y N RELINQUISHED BY										RECEIVED BY																			
Signature <i>[Signature]</i>														Signature <i>[Signature]</i>										Signature																			
Printed Name Mark Wilson														Printed Name Mark Wilson										Printed Name																			
Firm CAS														Firm CAS										Firm																			
Date/Time 4/19/05 0910														Date/Time 4/19/05 0930										Date/Time																			

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[illegible]

SCOC-1102-08



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SR #

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Project Name Soil Removal Firm 320 N Goodman St.		Project Number 041105		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager GARY STEM		Report CC		PRESERVATIVE															
Company/Address Stern Properties 274 North Goodman Street Rochester NY				NUMBER OF CONTAINERS															
Phone # 585-442-9061	FAX #	Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name Stephen DeMaso GeoQuest Env.		FOR OFFICE USE ONLY		LAB ID		SAMPLING DATE		TIME		MATRIX					
CLIENT SAMPLE ID		EX. 7 Bottom (15.0ft)		806885		4/15/05		1400		Soil		2							
SW EX. 7 (10.0-10.5ft)		888		4/15/05		1355		Soil		2									
SW EX. 7 (12.0-12.5ft)		890		4/15/05		1350		Soil		2									
SW EX. 7 (5.0-5.5ft)		891		4/15/05		1345		Soil		2									
SW EX. 7 (7.5-8.0ft)		892		4/15/05		1340		Soil		2									
EX. 8 Bottom (12.0ft)		893		4/18/05		1400		Soil		2									
EX. 5 Backfill		894		4/14/05		1200		Soil		2									
EX. 7 Backfill		806895		4/15/05		1410		Soil		2									
SPECIAL INSTRUCTIONS/COMMENTS Metals														TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE		REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MSMSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report Edela Yes No		INVOICE INFORMATION PO# BILL TO: SUBMISSION # R052879	
SPECIAL RECEIPT: CONDITION/COOLER TEMP: RELINQUISHED BY <i>[Signature]</i>														RECEIVED BY <i>[Signature]</i>		RELINQUISHED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>	
Signature <i>[Signature]</i>														Signature <i>[Signature]</i>		Signature <i>[Signature]</i>		Signature <i>[Signature]</i>	
Printed Name Stephen DeMaso														Printed Name Mark Wilcox		Printed Name Mark Wilcox		Printed Name Mark Wilcox	
Firm GeoQuest Env.														Firm CAS		Firm CAS		Firm CAS	
Date/Time 4/15/05 0910														Date/Time 4/19/05 0936		Date/Time 4/19/05 0930		Date/Time 4/19/05 0930	

Cooler Receipt And Preservation Check Form

Project/Client Steen Properties Submission Number 22525779Cooler received on 4-19-05 by: KE COURIER: CAS UPS FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 15°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No NoDate/Time Temperatures Taken: 4-19-05 @ 9:35Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

Cooler Breakdown: Date: 4/19/05 by: cmk

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃					
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

8260 VOLATILE ORGANICS

QC SUMMARY

QUALITY CONTROL SUMMARY MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SOIL/SEDIMENT

Spiked Order No. : 806854 Stern Properties

Client ID: STOCKPILE 4

Test: 8260B TCL

Analytical Units: UG/KG

Run Number : 115445

Percent Solid : 89.6

ANALYTE	SPIKE ADDED	CONCENT. SAMPLE	MATRIX SPIKE		MATRIX SPIKE DUP.				QC LIMITS	
			FOUND	% REC.	FOUND	% REC.	RPD	RPD	REC.	
BENZENE	55.8	0	55.8	100	52.5	94	6	30	70 - 130	
CHLOROBENZENE	55.8	0	56.9	102	46.9	84	19	30	70 - 130	
1,1-DICHLOROETHENE	55.8	0	58.0	104	55.8	100	4	30	70 - 130	
TOLUENE	55.8	0	55.8	100	51.3	92	8	30	70 - 130	
TRICHLOROETHENE	55.8	0	59.2	106	56.9	102	4	30	70 - 130	

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCLLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 809298

ANALYTICAL RUN #: 115445

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/21/05			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	82	50 - 150
BENZENE	20.0	106	70 - 130
BROMODICHLOROMETHANE	20.0	101	70 - 130
BROMOFORM	20.0	97	70 - 130
BROMOMETHANE	20.0	88	50 - 150
2-BUTANONE (MEK)	20.0	97	50 - 150
CARBON DISULFIDE	20.0	108	70 - 130
CARBON TETRACHLORIDE	20.0	101	70 - 130
CHLOROBENZENE	20.0	104	70 - 130
CHLOROETHANE	20.0	105	70 - 130
CHLOROFORM	20.0	106	70 - 130
CHLOROMETHANE	20.0	108	70 - 130
DIBROMOCHLOROMETHANE	20.0	96	70 - 130
1,1-DICHLOROETHANE	20.0	107	70 - 130
1,2-DICHLOROETHANE	20.0	94	70 - 130
1,1-DICHLOROETHENE	20.0	114	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	99	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	103	70 - 130
1,2-DICHLOROPROPANE	20.0	99	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	97	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	100	70 - 130
ETHYLBENZENE	20.0	107	70 - 130
2-HEXANONE	20.0	92	70 - 130
METHYLENE CHLORIDE	20.0	106	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	89	70 - 130
STYRENE	20.0	96	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	86	70 - 130
TETRACHLOROETHENE	20.0	106	70 - 130
TOLUENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	104	70 - 130
1,1,2-TRICHLOROETHANE	20.0	101	70 - 130
TRICHLOROETHENE	20.0	103	70 - 130
VINYL CHLORIDE	20.0	115	70 - 130
O-XYLENE	20.0	103	70 - 130
M+P-XYLENE	40.0	102	70 - 130

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD: 8260B TCLLABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 809300

ANALYTICAL RUN # : 115445

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 04/22/05			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	85	50 - 150
BENZENE	20.0	106	70 - 130
BROMODICHLOROMETHANE	20.0	96	70 - 130
BROMOFORM	20.0	96	70 - 130
BROMOMETHANE	20.0	91	50 - 150
2-BUTANONE (MEK)	20.0	91	50 - 150
CARBON DISULFIDE	20.0	100	70 - 130
CARBON TETRACHLORIDE	20.0	106	70 - 130
CHLOROBENZENE	20.0	107	70 - 130
CHLOROETHANE	20.0	107	70 - 130
CHLOROFORM	20.0	96	70 - 130
CHLOROMETHANE	20.0	107	70 - 130
DIBROMOCHLOROMETHANE	20.0	94	70 - 130
1,1-DICHLOROETHANE	20.0	101	70 - 130
1,2-DICHLOROETHANE	20.0	95	70 - 130
1,1-DICHLOROETHENE	20.0	104	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	92	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	98	70 - 130
1,2-DICHLOROPROPANE	20.0	104	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	97	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	92	70 - 130
ETHYLBENZENE	20.0	113	70 - 130
2-HEXANONE	20.0	97	70 - 130
METHYLENE CHLORIDE	20.0	101	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	93	70 - 130
STYRENE	20.0	99	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	82	70 - 130
TETRACHLOROETHENE	20.0	105	70 - 130
TOLUENE	20.0	106	70 - 130
1,1,1-TRICHLOROETHANE	20.0	95	70 - 130
1,1,2-TRICHLOROETHANE	20.0	96	70 - 130
TRICHLOROETHENE	20.0	100	70 - 130
VINYL CHLORIDE	20.0	106	70 - 130
O-XYLENE	20.0	102	70 - 130
M+P-XYLENE	40.0	103	70 - 130

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

METBLK1

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID: B1045.D Lab Sample ID: 809297 1.0
 Date Analyzed: 04/21/05 Time Analyzed: 17:10
 GC Column: DB624 ID: 0.32 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOA5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS1	809298 1.0	B1043.D	15:57
02	STOCKPILE1	806851 1.0	B1046.D	17:45
03	STOCKPILE2	806852 1.0	B1047.D	18:21
04	STOCKPILE3	806853 1.0	B1048.D	18:56
05	STOCKPILE4	806854 1.0	B1049.D	19:31
06	STOCKPILE4 MSD	809303 1.0	B1051.D	20:41

COMMENTS

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

METBLK2

Lab Name: CASROCH Contract: STERN
Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
Lab File ID: B1073.D Lab Sample ID: 809299 1.0
Date Analyzed: 04/22/05 Time Analyzed: 18:58
GC Column: DB624 ID: 0.32 (mm) Heated Purge: (Y/N) Y
Instrument ID: MSVOA5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS2	809300 1.0	B1071.D	17:48
02	STOCKPILE4 MS	809301 1.0	B1074.D	19:33

COMMENTS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID: B0832.D BFB Injection Date: 04/06/05
 Instrument ID: MSVOA5 BFB Injection Time: 10:45
 GC Column: DB624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	46.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.3
175	5.0 - 9.0% of mass 174	5.4 (8.1)1
176	95.0 - 101.0% of mass 174	65.5 (98.9)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 CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

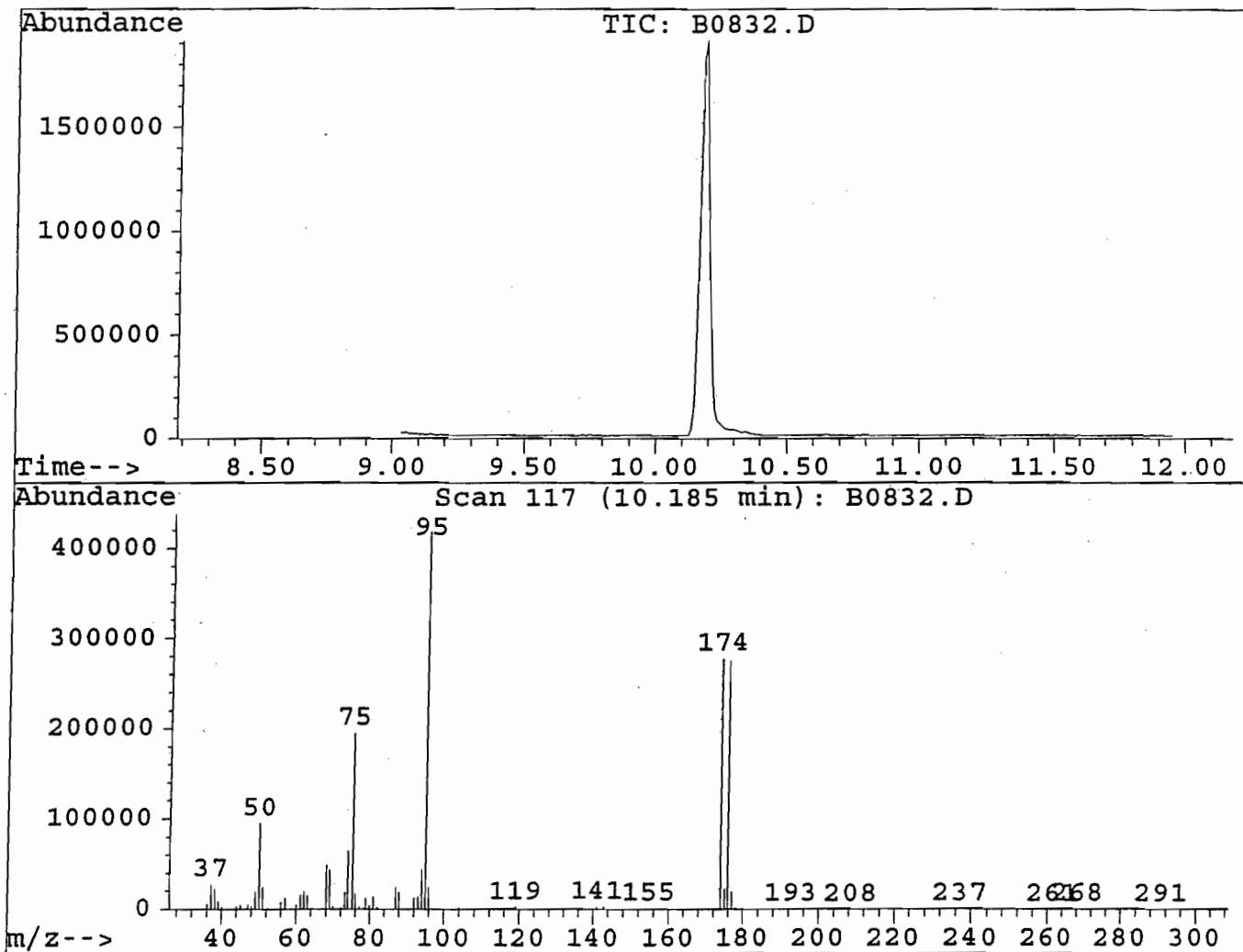
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	5	5 PPB	B0834.D	04/06/05	11:53
02	10	10 PPB	B0835.D	04/06/05	12:28
03	20	20 PPB	B0836.D	04/06/05	13:03
04	50	50 PPB	B0837.D	04/06/05	13:38
05	100	100 PPB	B0838.D	04/06/05	14:14
06	150	150 PPB	B0839.D	04/06/05	14:49
07	200	200 PPB	B0840.D	04/06/05	15:24

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0832.D
 Acq On : 6 Apr 105 10:45 am
 Sample : TUNE
 Misc :

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa

Ka 4/6/05



Peak Apex is scan: 117

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	95272	PASS
75	95	30	60	46.6	194880	PASS
95	95	100	100	100.0	418368	PASS
96	95	5	9	5.8	24408	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	66.3	277184	PASS
175	174	5	9	8.1	22432	PASS
176	174	95	101	98.9	274176	PASS
177	176	5	9	6.9	19040	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID: B1040.D BFB Injection Date: 04/21/05
 Instrument ID: MSVOA5 BFB Injection Time: 13:50
 GC Column: DB624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	52.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	63.3
175	5.0 - 9.0% of mass 174	3.9 (6.2)1
176	95.0 - 101.0% of mass 174	63.7 (100.6)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

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

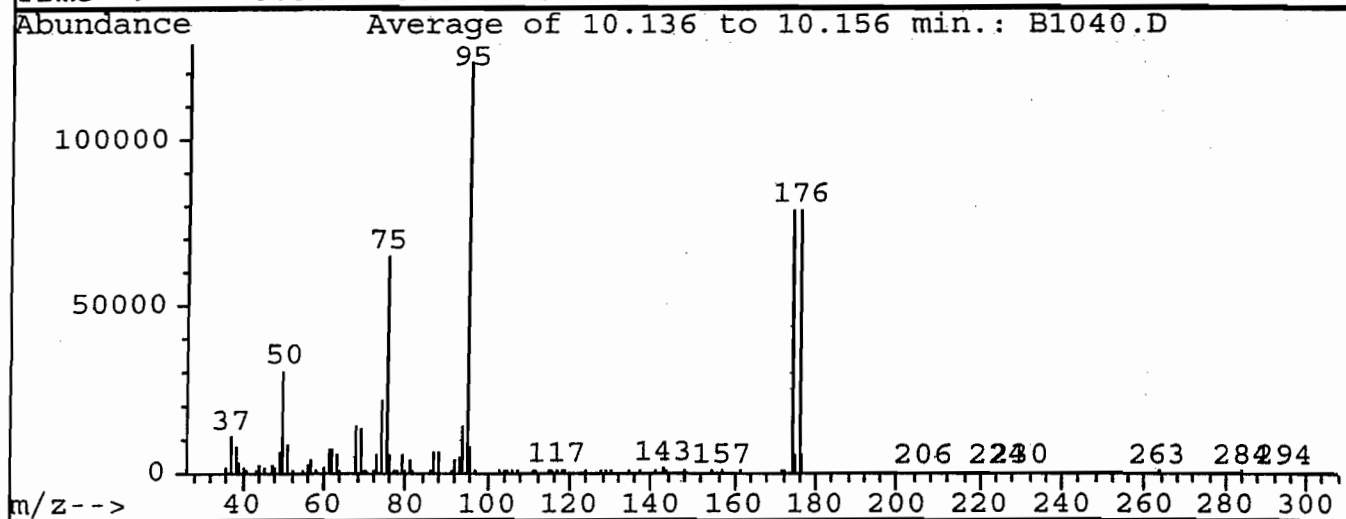
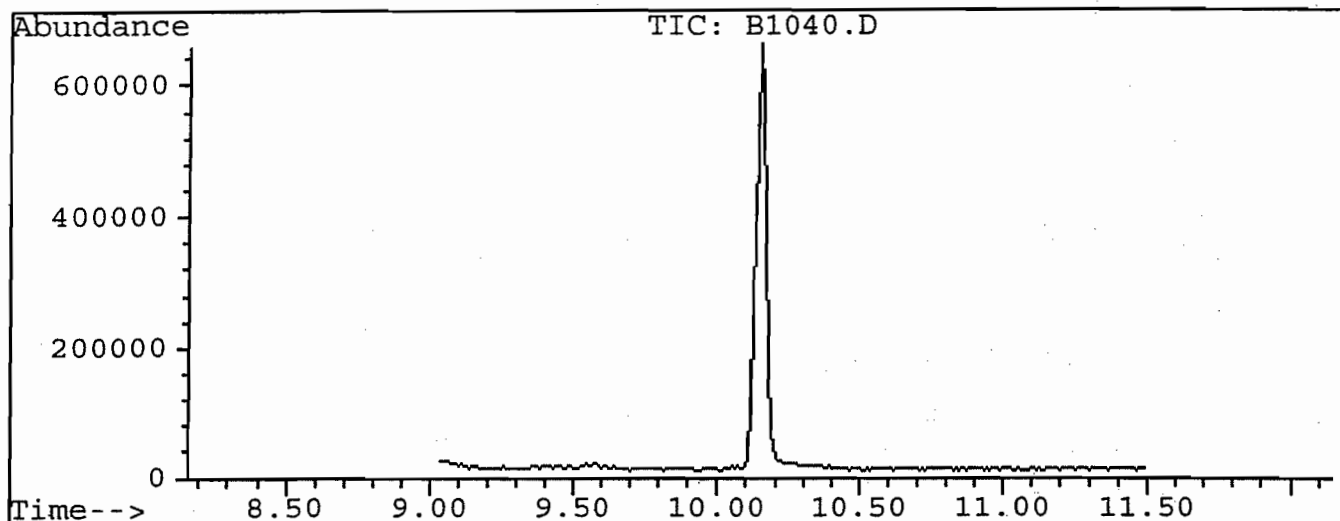
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV1	CCV	B1042.D	04/21/05	15:11
02	LCS1	809298 1.0	B1043.D	04/21/05	15:57
03	METBLK1	809297 1.0	B1045.D	04/21/05	17:10
04	STOCKPILE1	806851 1.0	B1046.D	04/21/05	17:45
05	STOCKPILE2	806852 1.0	B1047.D	04/21/05	18:21
06	STOCKPILE3	806853 1.0	B1048.D	04/21/05	18:56
07	STOCKPILE4	806854 1.0	B1049.D	04/21/05	19:31
08	STOCKPILE4 MSD	809303 1.0	B1051.D	04/21/05	20:41

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1040.D
 Acq On : 21 Apr 105 1:50 pm
 Sample : TUNE
 Misc :

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa

ka 4/21/05



Peak Apex is scan: 114

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.2	29896	PASS
75	95	30	60	52.3	64499	PASS
95	95	100	100	100.0	123341	PASS
96	95	5	9	6.3	7796	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	63.3	78117	PASS
175	174	5	9	6.2	4815	PASS
176	174	95	101	100.6	78605	PASS
177	176	5	9	6.6	5196	PASS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID: B1067.D BFB Injection Date: 04/22/05
 Instrument ID: MSVOA5 BFB Injection Time: 14:54
 GC Column: DB624 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.6
75	30.0 - 60.0% of mass 95	51.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	62.6
175	5.0 - 9.0% of mass 174	5.6 (8.9)1
176	95.0 - 101.0% of mass 174	61.2 (97.9)1
177	5.0 - 9.0% of mass 176	3.8 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

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

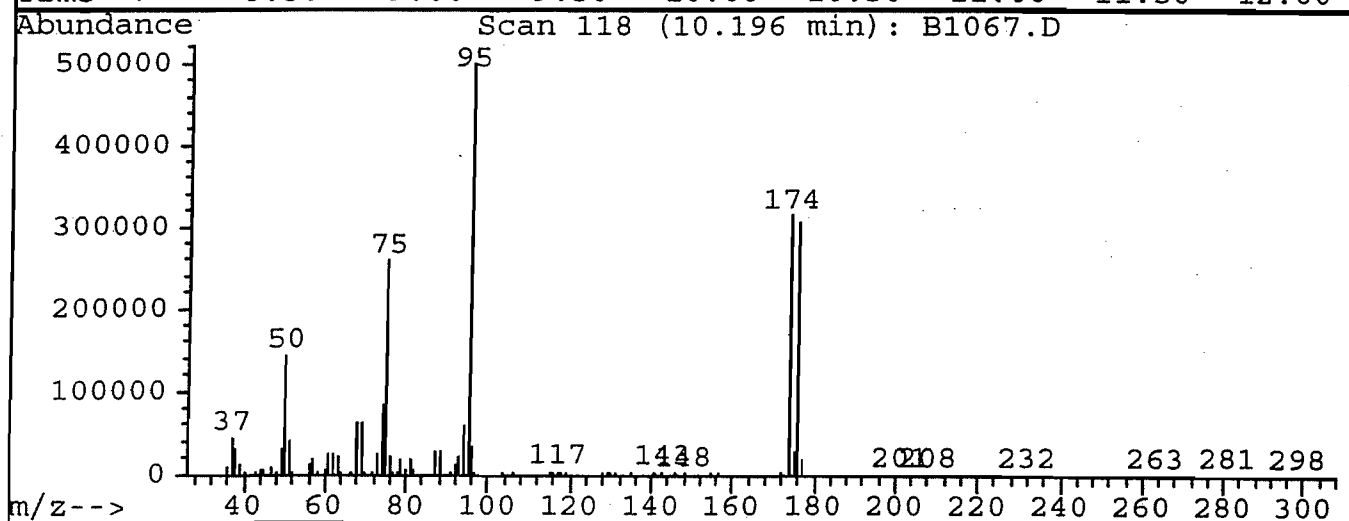
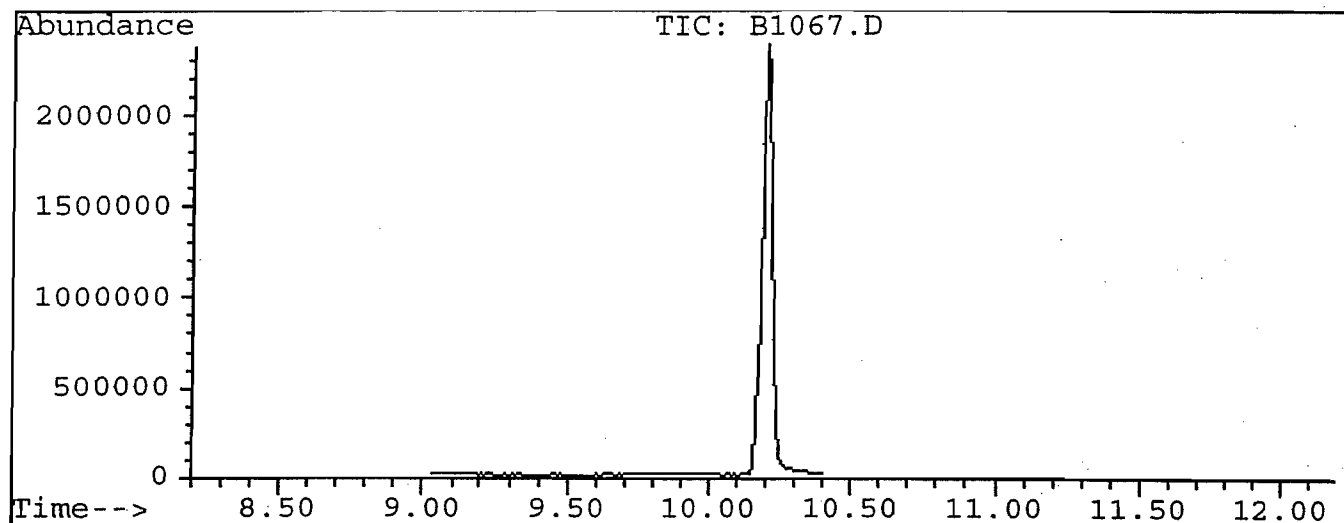
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV2	CCV	B1070.D	04/22/05	17:12
02	LCS2	809300 1.0	B1071.D	04/22/05	17:48
03	METBLK2	809299 1.0	B1073.D	04/22/05	18:58
04	STOCKPILE4 MS	809301 1.0	B1074.D	04/22/05	19:33

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1067.D
 Acq On : 22 Apr 105 2:54 pm
 Sample : TUNE
 Misc :

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa

Ka 4/22/05



Peak Apex is scan: 118

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.6	143040	PASS
75	95	30	60	51.5	257600	PASS
95	95	100	100	100.0	500288	PASS
96	95	5	9	6.4	31880	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	62.6	313088	PASS
175	174	5	9	8.9	27824	PASS
176	174	95	101	97.9	306368	PASS
177	176	5	9	6.2	18992	PASS

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID (Standard): B1042.D Date Analyzed: 04/21/05
 Instrument ID: MSVOA5 Time Analyzed: 15:11
 GC Column: DB624 ID: 0.32 (mm) Heated Purge (Y/N): Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	609155	9.84	1046047	11.18	1033855	16.70
UPPER LIMIT	1218310	9.34	2092094	10.68	2067710	16.20
LOWER LIMIT	304578	10.34	523024	11.68	516928	17.20
EPA SAMPLE NO.						
01 LCS1	593720	9.85	1017949	11.19	993180	16.70
02 METBLK1	597195	9.85	996122	11.19	989368	16.71
03 STOCKPILE1	554098	9.84	970489	11.19	981280	16.70
04 STOCKPILE2	485260	9.85	850080	11.19	832735	16.71
05 STOCKPILE3	502299	9.85	874521	11.19	898058	16.72
06 STOCKPILE4	486771	9.85	868127	11.19	838542	16.71
07 STOCKPILE4ms	542763	9.84	928715	11.18	942219	16.70

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenze
 IS4 = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID (Standard): B1042.D Date Analyzed: 04/21/05
 Instrument ID: MSVOA5 Time Analyzed: 15:11
 GC Column: DB624 ID: 0.32 (mm) Heated Purge (Y/N): Y

	IS4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	463966	21.40				
UPPER LIMIT	927932	20.90				
LOWER LIMIT	231983	21.90				
EPA SAMPLE NO.						
01 LCS1	458309	21.40				
02 METBLK1	409819	21.40				
03 STOCKPILE1	419231	21.40				
04 STOCKPILE2	363456	21.41				
05 STOCKPILE3	385600	21.41				
06 STOCKPILE4	363458	21.41				
07 STOCKPILE4 MSD	401262	21.41				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenze
 IS4 = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID (Standard): B1070.D Date Analyzed: 04/22/05
 Instrument ID: MSVOA5 Time Analyzed: 17:12
 GC Column: DB624 ID: 0.32 (mm) Heated Purge (Y/N): Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	668366	9.88	1047450	11.21	979002	16.74
UPPER LIMIT	1336732	9.38	2094900	10.71	1958004	16.24
LOWER LIMIT	334183	10.38	523725	11.71	489501	17.24
EPA SAMPLE NO.						
01 LCS2	726564	9.88	1130921	11.22	1046660	16.74
02 METBLK2	624608	9.89	1075995	11.22	978428	16.75
03 STOCKPILE4ms	610180	9.88	999310	11.22	943565	16.75

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenze
 IS4 = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CASROCH Contract: STERN
 Lab Code: 10145 Case No.: _____ SAS No.: R5-257 SDG No.: Stockpile1
 Lab File ID (Standard): B1070.D Date Analyzed: 04/22/05
 Instrument ID: MSVOA5 Time Analyzed: 17:12
 GC Column: DB624 ID: 0.32 (mm) Heated Purge (Y/N): Y

	IS4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	459039	21.44				
UPPER LIMIT	918078	20.94				
LOWER LIMIT	229520	21.94				
EPA SAMPLE NO.						
01 LCS2	518579	21.44				
02 METBLK2	426193	21.45				
03 STOCKPILE4 _{MS}	438124	21.45				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = d5-Chlorobenze
 IS4 = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

31

MDL Study Report

MDL Study ID: MDL151

Analytical Method: 8260B
 Extraction Method: EPA 5035
 Matrix: SEDIMENT
 Instrument: 5971 - In

Column: MS

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
1,1,1,2-Tetrachloroethane	1.00	0.934	0.0860	2.998	0.26	ug/Kg	9	93	Valid MDL Data
1,1,1-Trichloroethane (TCA)	3.00	2.65	0.209	2.998	0.63	ug/Kg	8	88	Valid MDL Data
1,1,2,2-Tetrachloroethane	1.00	0.879	0.0636	2.998	0.19	ug/Kg	7	88	Valid MDL Data
1,1,2-Trichloroethane	1.00	0.970	0.0882	2.998	0.26	ug/Kg	9	97	Valid MDL Data
1,1-Dichloroethane	1.00	1.01	0.0848	2.998	0.25	ug/Kg	8	101	Valid MDL Data
1,1-Dichloroethene	1.00	1.05	0.143	2.998	0.43	ug/Kg	14	105	Valid MDL Data
1,1-Dichloropropene	1.00	1.08	0.0763	2.998	0.23	ug/Kg	7	108	Valid MDL Data
1,2,3-Trichlorobenzene	1.00	1.02	0.165	2.998	0.50	ug/Kg	16	102	Valid MDL Data
1,2,3-Trichloropropane	3.00	2.70	0.245	2.998	0.73	ug/Kg	9	90	Valid MDL Data
1,2,4-Trichlorobenzene	1.00	0.999	0.126	2.998	0.38	ug/Kg	13	100	Valid MDL Data
1,2,4-Trimethylbenzene	1.00	1.18	0.156	2.998	0.47	ug/Kg	13	118	Valid MDL Data
1,2-Dibromo-3-chloropropane (DBCP)	1.00	0.781	0.101	2.998	0.30	ug/Kg	13	78	Valid MDL Data
1,2-Dibromoethane (EDB)	1.00	0.894	0.0447	2.998	0.13	ug/Kg	5	89	Valid MDL Data
1,2-Dichlorobenzene	1.00	1.07	0.132	2.998	0.40	ug/Kg	12	107	Valid MDL Data
1,2-Dichloroethane (EDC)	1.00	1.04	0.0599	2.998	0.18	ug/Kg	6	104	Valid MDL Data
1,2-Dichloropropane	3.00	2.68	0.156	2.998	0.47	ug/Kg	6	89	Valid MDL Data
1,3,5-Trimethylbenzene	1.00	1.11	0.163	2.998	0.49	ug/Kg	15	111	Valid MDL Data
1,3-Dichlorobenzene	1.00	1.09	0.130	2.998	0.39	ug/Kg	12	109	Valid MDL Data
1,3-Dichloropropane	1.00	0.945	0.0602	2.998	0.18	ug/Kg	6	95	Valid MDL Data
1,4-Dichlorobenzene	1.00	1.16	0.136	2.998	0.41	ug/Kg	12	116	Valid MDL Data
2,2-Dichloropropane	3.00	2.58	0.125	2.998	0.37	ug/Kg	5	86	Valid MDL Data
2-Butanone (MEK)	3.00	3.74	0.396	2.998	1.2	ug/Kg	11	125	Valid MDL Data
2-Chloro-1,3-butadiene	1.00	0.894	0.0802	2.998	0.24	ug/Kg	9	89	Valid MDL Data
2-Chlorotoluene	1.00	1.13	0.115	2.998	0.34	ug/Kg	10	113	Valid MDL Data
2-Hexanone	3.00	3.64	0.313	2.998	0.94	ug/Kg	9	121	Valid MDL Data
2-Nitropropane	6.00	4.14	0.845	2.998	2.5	ug/Kg	20	69	Valid MDL Data
4-Chlorotoluene	1.00	1.05	0.121	2.998	0.36	ug/Kg	11	105	Valid MDL Data
4-Isopropyltoluene	1.00	1.07	0.214	2.998	0.64	ug/Kg	20	107	Valid MDL Data
4-Methyl-2-pentanone (MIBK)	1.00	1.01	0.158	2.998	0.47	ug/Kg	16	101	Valid MDL Data
Acetone	3.00	6.00	0.484	2.998	1.5	ug/Kg	8	200	Valid MDL Data
Acetonitrile	15.0	34.2	2.98	2.998	8.9	ug/Kg	9	228	Valid MDL Data

QA/QC Approval:

Supervisor Approval:

MDL Study Report

Analytical Method: 8260B
Extraction Method: EPA 5035
Matrix: SEDIMENT
Instrument: 5971 - In

MDL Study ID: MDL151

Column:

MS 5

10/29/04

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Acrolein	15.0	15.3	2.10	2.998	6.3	ug/Kg	14	102	Valid MDL Data
Acrylonitrile	15.0	11.0	0.687	2.998	2.1	ug/Kg	6	74	Valid MDL Data
Allyl Chloride	3.00	2.84	0.275	2.998	0.82	ug/Kg	10	95	Valid MDL Data
Benzene	1.00	1.53	0.0721	2.998	0.22	ug/Kg	5	153	Valid MDL Data
Bromobenzene	1.00	1.02	0.116	2.998	0.35	ug/Kg	11	102	Valid MDL Data
Bromochloromethane	1.00	1.01	0.120	2.998	0.36	ug/Kg	12	101	Valid MDL Data
Bromodichloromethane	1.00	0.915	0.0635	2.998	0.19	ug/Kg	7	92	Valid MDL Data
Bromoform	1.00	0.795	0.0431	2.998	0.13	ug/Kg	5	80	Valid MDL Data
Bromomethane	1.00	1.09	0.111	2.998	0.33	ug/Kg	10	109	Valid MDL Data
Carbon Disulfide	1.00	0.948	0.0456	2.998	0.14	ug/Kg	5	95	Valid MDL Data
Carbon Tetrachloride	1.00	0.986	0.0896	2.998	0.27	ug/Kg	9	99	Valid MDL Data
Chlorobenzene	1.00	1.56	0.0489	2.998	0.15	ug/Kg	3	156	Valid MDL Data
Chloroethane	1.00	1.07	0.0828	2.998	0.25	ug/Kg	8	107	Valid MDL Data
Chloroform	1.00	0.999	0.0747	2.998	0.22	ug/Kg	7	100	Valid MDL Data
Chloromethane	1.00	1.07	0.0669	2.998	0.20	ug/Kg	6	107	Valid MDL Data
cis-1,2-Dichloroethene	1.00	1.40	0.0765	2.998	0.23	ug/Kg	5	140	Valid MDL Data
cis-1,3-Dichloropropene	1.00	0.894	0.0453	2.998	0.14	ug/Kg	5	89	Valid MDL Data
Cyclohexane	1.00	0.940	0.0825	2.998	0.25	ug/Kg	9	94	Valid MDL Data
Dibromochloromethane	1.00	0.801	0.0734	2.998	0.22	ug/Kg	9	80	Valid MDL Data
Dibromomethane	1.00	0.945	0.0767	2.998	0.23	ug/Kg	8	95	Valid MDL Data
Dichlorodifluoromethane	1.00	1.41	0.141	2.998	0.42	ug/Kg	10	141	Valid MDL Data
Diethyl Ether	1.00	0.889	0.163	2.998	0.49	ug/Kg	18	89	Valid MDL Data
Ethyl Methacrylate	1.00	0.846	0.0628	2.998	0.19	ug/Kg	7	85	Valid MDL Data
Ethylbenzene	1.00	1.15	0.128	2.998	0.38	ug/Kg	11	115	Valid MDL Data
Hexachlorobutadiene	1.00	1.04	0.203	2.998	0.61	ug/Kg	19	104	Valid MDL Data
Iodomethane (Methyl Iodide)	3.00	11.1	0.205	2.998	0.62	ug/Kg	2	368	Valid MDL Data
Isobutyl Alcohol	20.0	17.7	3.59	2.998	11	ug/Kg	20	88	Valid MDL Data
Isopropylbenzene	1.00	1.07	0.150	2.998	0.45	ug/Kg	14	107	Valid MDL Data
m,p-Xylenes	2.00	2.37	0.235	2.998	0.71	ug/Kg	10	118	Valid MDL Data
Methacrylonitrile	3.00	2.10	0.187	2.998	0.56	ug/Kg	9	70	Valid MDL Data
Methyl Acetate	3.00	4.52	0.353	2.998	1.1	ug/Kg	8	151	Valid MDL Data

Supervisor Approval:

QA/QC Approval:

Printed: 01/11/2005 10:49:56

F:\stealth\Crystal.rpt\MDLStudy.rpt

MDL Study Report

Analytical Method: 8260B
Extraction Method: EPA 5035
Matrix: SEDIMENT
Instrument: 5971 - In

MDL Study ID: MDL151

Column:

MS 5

10/29/04

Analyte Name	True Value	Mean	Standard Deviation	T-Value	MDL Value	Units	%RSD	Average Recovery	MDL Qualifier notes
Methyl Methacrylate	1.00	0.855	0.128	2.998	0.38	ug/Kg	15	86	Valid MDL Data
Methyl tert-Butyl Ether	1.00	0.921	0.0642	2.998	0.19	ug/Kg	7	92	Valid MDL Data
Methylcyclohexane	1.00	0.864	0.0466	2.998	0.14	ug/Kg	5	86	Valid MDL Data
Methylene Chloride	1.00	1.61	0.145	2.998	0.43	ug/Kg	9	161	Valid MDL Data
Naphthalene	1.00	1.03	0.113	2.998	0.34	ug/Kg	11	103	Valid MDL Data
n-Butylbenzene	1.00	0.965	0.167	2.998	0.50	ug/Kg	17	97	Valid MDL Data
n-Propylbenzene	1.00	1.13	0.186	2.998	0.56	ug/Kg	17	113	Valid MDL Data
o-Xylene	1.00	1.12	0.112	2.998	0.34	ug/Kg	10	112	Valid MDL Data
Propionitrile	15.0	9.71	1.75	2.998	5.3	ug/Kg	18	65	Valid MDL Data
sec-Butylbenzene	1.00	1.09	0.189	2.998	0.57	ug/Kg	17	109	Valid MDL Data
Styrene	1.00	0.989	0.0906	2.998	0.27	ug/Kg	9	99	Valid MDL Data
tert-Butyl Alcohol	20.0	17.4	1.68	2.998	5.0	ug/Kg	10	87	Valid MDL Data
tert-Butylbenzene	1.00	1.09	0.173	2.998	0.52	ug/Kg	16	109	Valid MDL Data
Tetrachloroethene (PCE)	1.00	1.11	0.0833	2.998	0.25	ug/Kg	7	111	Valid MDL Data
Tetrahydrofuran	1.00	3.71	0.288	2.998	0.86	ug/Kg	8	371	Valid MDL Data
Toluene	1.00	2.26	0.0741	2.998	0.22	ug/Kg	3	226	Valid MDL Data
trans-1,2-Dichloroethene	1.00	1.06	0.0952	2.998	0.29	ug/Kg	9	106	Valid MDL Data
trans-1,3-Dichloropropene	1.00	0.861	0.0653	2.998	0.20	ug/Kg	8	86	Valid MDL Data
trans-1,4-Dichloro-2-butene	1.00	0.840	0.136	2.998	0.41	ug/Kg	16	84	Valid MDL Data
Trichloroethene (TCE)	1.00	1.14	0.0492	2.998	0.15	ug/Kg	4	114	Valid MDL Data
Trichlorofluoromethane	1.00	1.14	0.0462	2.998	0.14	ug/Kg	4	114	Valid MDL Data
Trichlorotrifluoroethane	1.00	1.08	0.217	2.998	0.65	ug/Kg	20	108	Valid MDL Data
Vinyl Acetate	3.00	2.88	0.819	2.998	2.5	ug/Kg	28	96	Valid MDL Data
Vinyl Chloride	1.00	1.10	0.103	2.998	0.31	ug/Kg	9	110	Valid MDL Data

34

Supervisor Approval:

QA/QC Approval:

Printed: 01/11/2005 10:49:56

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8260 VOLATILE ORGANICS

SAMPLE DATA

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 1

Date Sampled : 04/12/05 10:10 Order #: 806851 Sample Matrix: SOIL/SEDIMENT
 Date Received: 04/19/05 Submission #: R2525779 Percent Solid: 91.1

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/21/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	22 U	UG/KG
BENZENE	5.0	5.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.5 U	UG/KG
BROMOFORM	5.0	5.5 U	UG/KG
BROMOMETHANE	5.0	5.5 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.5 U	UG/KG
CHLOROBENZENE	5.0	5.5 U	UG/KG
CHLOROETHANE	5.0	5.5 U	UG/KG
CHLOROFORM	5.0	5.5 U	UG/KG
CHLOROMETHANE	5.0	5.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
ETHYLBENZENE	5.0	5.5 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
METHYLENE CHLORIDE	5.0	5.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.5 U	UG/KG
TETRACHLOROETHENE	5.0	5.5 U	UG/KG
TOLUENE	5.0	5.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.5 U	UG/KG
TRICHLOROETHENE	5.0	5.5 U	UG/KG
VINYL CHLORIDE	5.0	5.5 U	UG/KG
O-XYLENE	5.0	5.5 U	UG/KG
M+P-XYLENE	5.0	5.5 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)
TOLUENE-D8	(75 - 128 %)
DIBROMOFLUOROMETHANE	(62 - 133 %)

92

%

94

%

87

%

36

12

CP
10/3/07

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1046.D
 Acq On : 21 Apr 105 5:45 pm
 Sample : 806851 1.0
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 21 18:14 19105

Vial: 37
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

ka 4/22/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.84	168	554098	50.00	ppb	0.00
36) 1,4-Difluorobenzene	11.19	114	970489	50.00	ppb	0.00
60) d5-Chlorobenze	16.70	117	981280	50.00	ppb	0.00
75) d4-1,4-Dichlorobenzene	21.40	152	419231	50.00	ppb	0.00

System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.78	113	370505	43.35	ppb	86.71%
42) surr1,1,2-Dicethane	10.40	65	345912	42.45	ppb	84.90%
58) surr3,Toluene-d8	13.93	98	1240354	47.04	ppb	94.08%
59) surr2,bfb	19.03	95	500324	45.76	ppb	91.53%

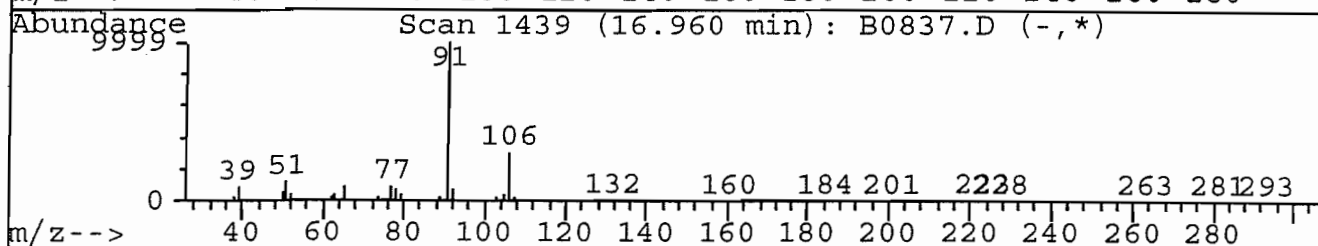
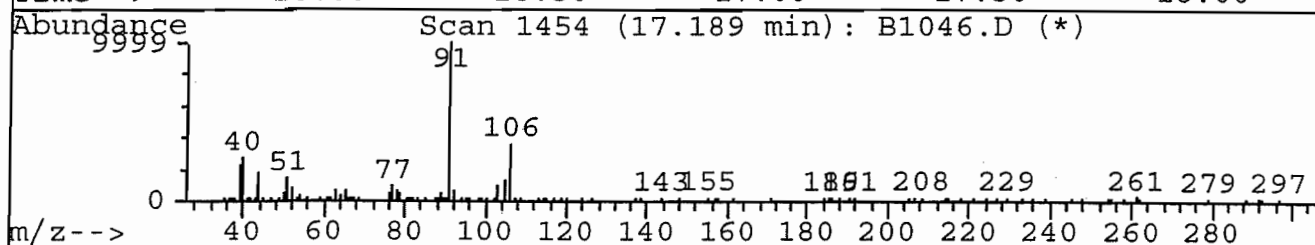
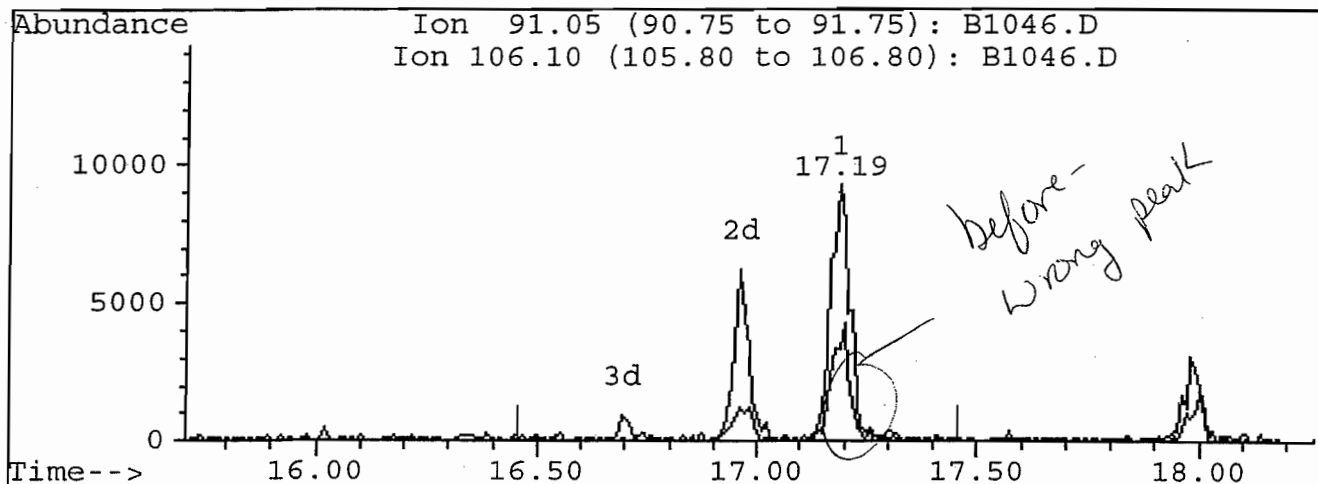
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.92	85	5426	0.65	ppb	# 89< NT
7) Trichlorofluoromethane	4.75	101	6097	0.50	ppb	# 76< ↓
9) Acrolein	5.38	56	199	40.91	ppb	84
10) FREON 113	5.76	85	2059	0.65	ppb	76
12) Acetone	5.85	43	3141	1.68	ppb	93
13) Iodomethane	6.00	142	676	19.70	ppb	92
15) Methyl Acetate	6.47	43	879	0.57	ppb	# 58
16) Acetonitrile	6.12	39	2371	22.06	ppb	74
19) TBA	6.80	59	1262	1.72	ppb	# 65
24) Vinyl Acetate	7.63	42	3124	3.59	ppb	98
27) 2-Butanone	8.93	43	4090	1.18	ppb	# 57
29) Propionitrile	9.05	54	512	0.64	ppb	94
61) Tetrachloroethene	15.12	166	5288	0.62	ppb	# 77< J
68) Ethylbenzene	16.96 17.19	91	27972	0.38 0.67	ppb m (ka)	89 J
69) (m+p) Xylene	17.20	106	13070	0.85	ppb	87 J
74) Cyclohexanone	18.89	55	1362	1.28	ppb	# 79
79) n-Propylbenzene	19.55	91	31622	0.64	ppb	# 85< NT
83) 4-Chlorotoluene	19.96	91	15794	0.53	ppb	# 86
85) 1,2,4-Trimethylbenzene	20.67	105	17355	0.56	ppb	# 81
86) sec-Butylbenzene	21.02	105	25433	0.61	ppb	96
87) p-Isopropyltoluene	21.30	119	23389	0.71	ppb	# 82
88) 1,3-Dclbenz	21.28	146	8593	0.52	ppb	# 72
89) 1,4-Dclbenz	21.46	146	9764	0.60	ppb	# 79
90) n-Butylbenzene	22.14	91	32751	0.97	ppb	# 87
94) 1,2,4-Tcbenzene	25.59	180	5485	0.66	ppb	# 79
95) Hexachlorobt	25.92	225	5318	1.34	ppb	89 ↓

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1046.D
 Acq On : 21 Apr 105 5:45 pm
 Sample : 806851 1.0
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 22 9:24 19105

Vial: 37
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1046.D

(68) Ethylbenzene (c)

17.19min 0.67ppb

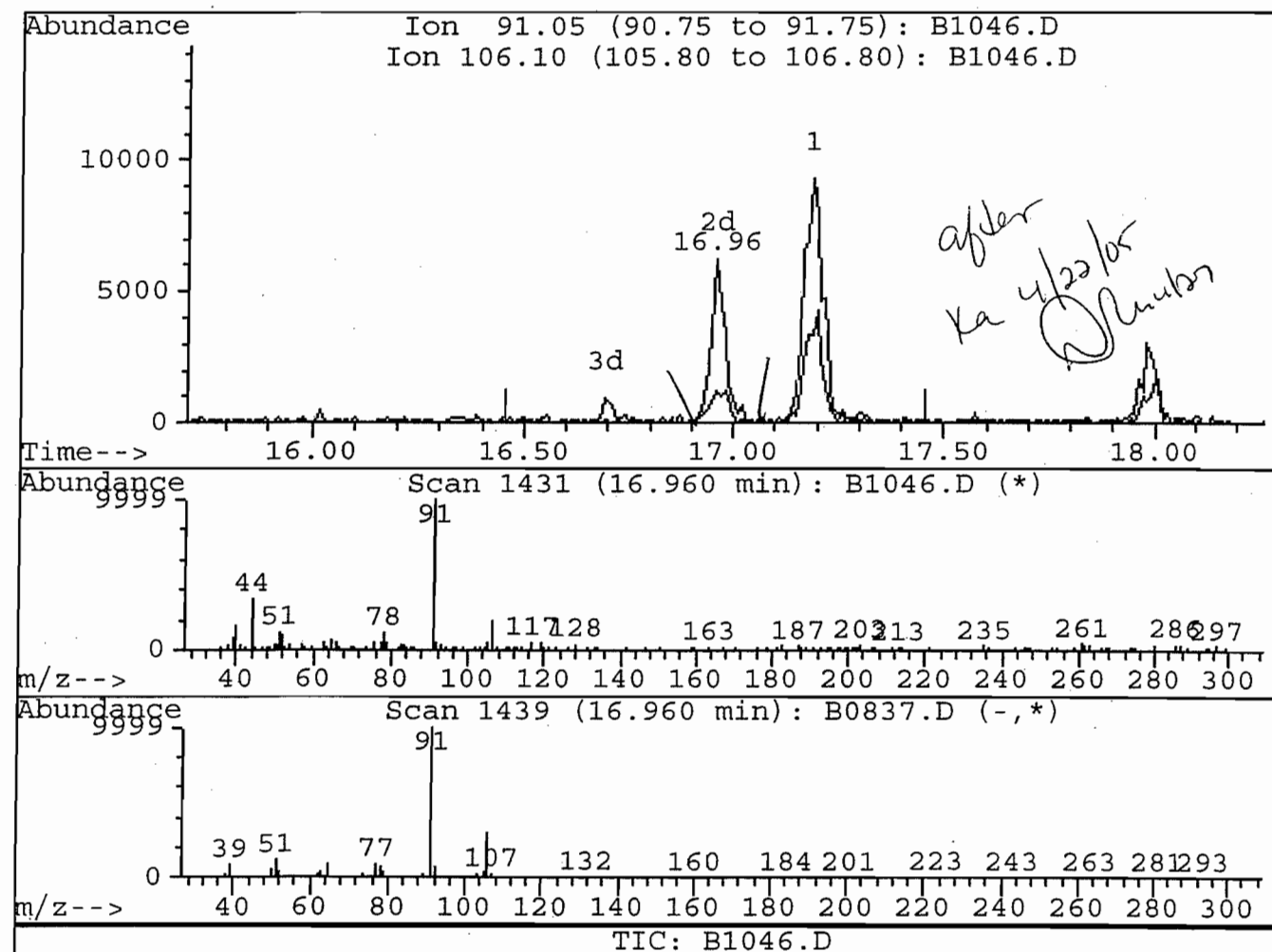
response 27972

Ion	Exp%	Act%
91.05	100	100
106.10	30.00	35.90
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1046.D
Acq On : 21 Apr 105 5:45 pm
Sample : 806851 1.0
Misc : STERN R25-25779 8260B.TCLH
Quant Time: Apr 22 9:25 19105

Vial: 37
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



(68) Ethylbenzene (c)

16.96min 0.38ppb m

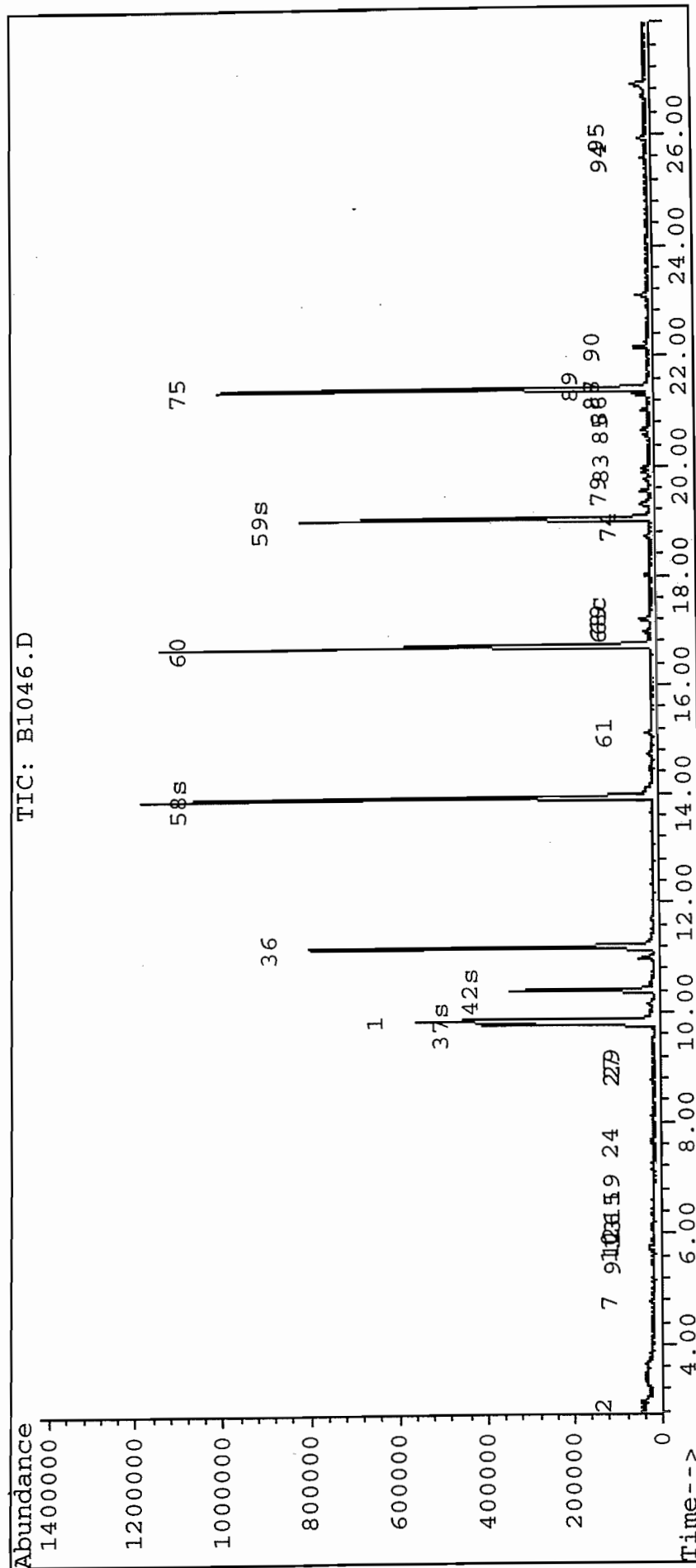
response 15698

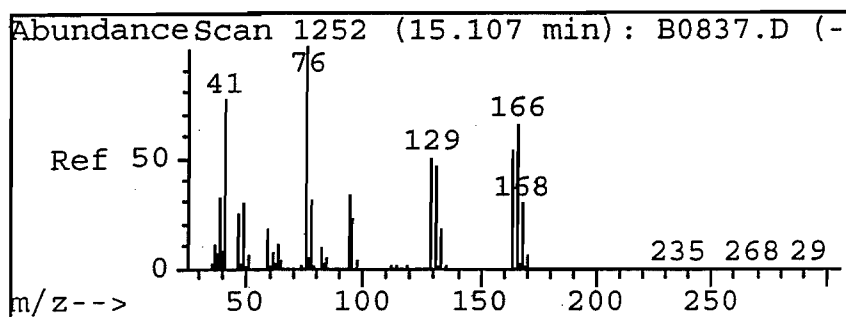
Ion	Exp%	Act%
91.05	100	100
106.10	30.00	19.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation report

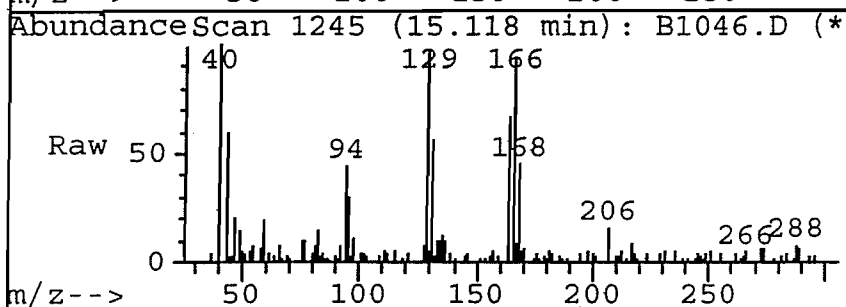
Data File : J:\ACQDATA\MSVOA5\DATA\042105\B1046.D Vial: 37
 Acq On : 21 Apr 105 5:45 pm Operator: K.ARNOLD
 Sample : 806851 1.0 Inst : 5971 - In
 Misc : STERN R25-25779 8260B.TCLH Multiplr: 1.00
 Quant Time: Apr 21 18:14 19105

Method : J:\ACQDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

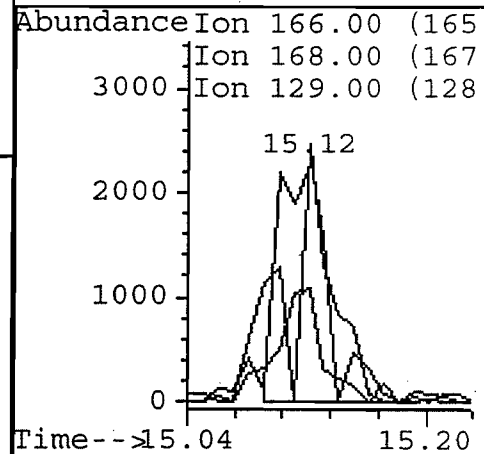
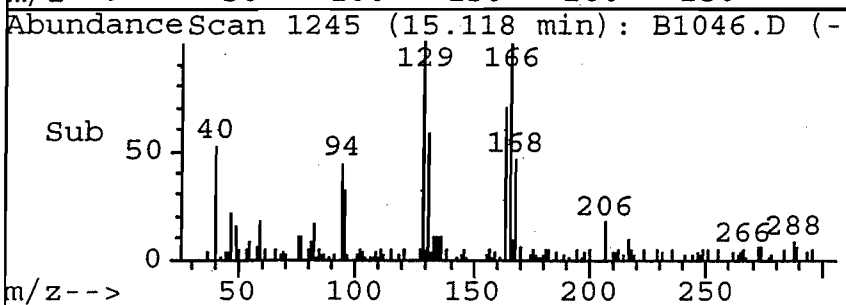




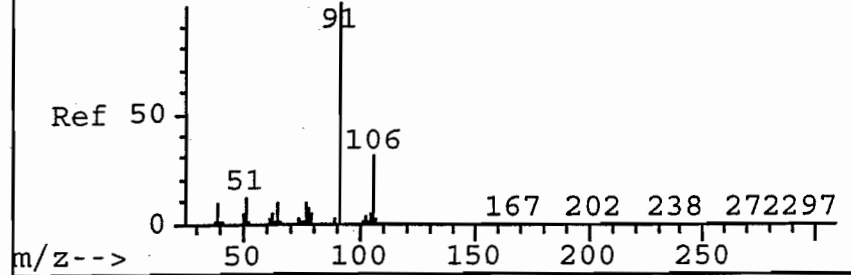
#61
 Tetrachloroethene
 Concen: 0.62 ppb
 RT: 15.12 min Scan# 1245
 Delta R.T. 0.01 min
 Lab File: B1046.D
 Acq: 21 Apr 105 5:45 pm



Tgt Ion	Ratio	Lower	Upper
166	100		
168	47.3	35.9	53.8
129	107.2	61.9	92.8#
0	0.0	0.0	0.0



Abundance Scan 1439 (16.960 min): B0837.D (-

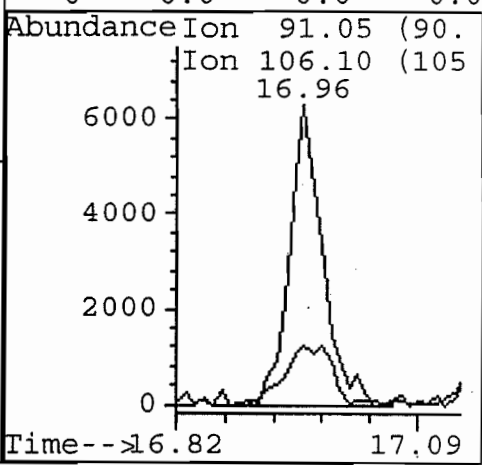
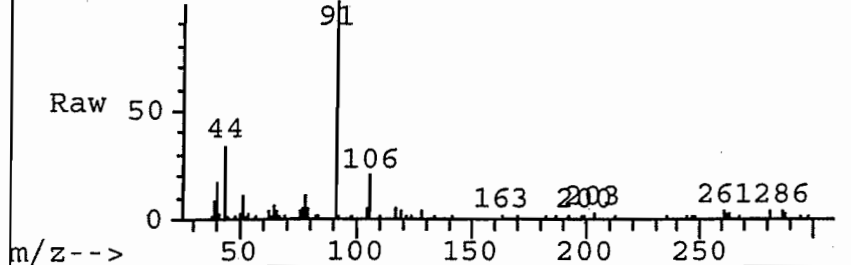


#68
Ethylbenzene
Concen: 0.38 ppb m
RT: 16.96 min Scan# 1431
Delta R.T. 0.00 min
Lab File: B1046.D
Acq: 21 Apr 105 5:45 pm

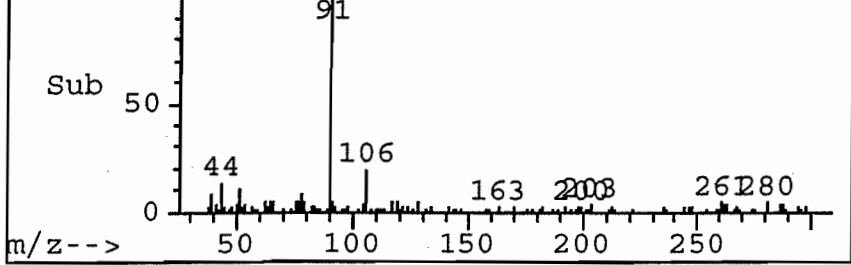
Tgt Ion: 91.05 Resp: 15698

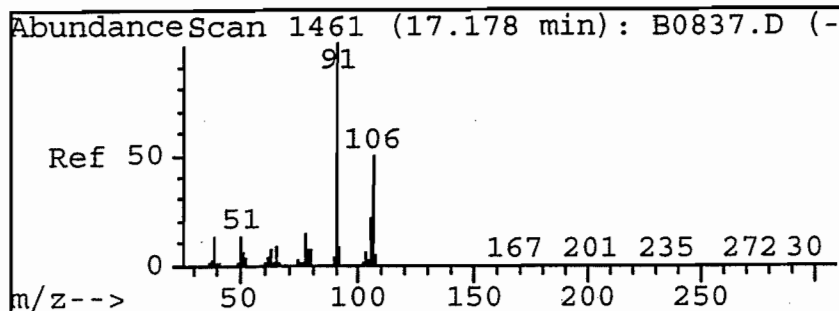
Ion	Ratio	Lower	Upper
91	100		
106	19.5	24.1	36.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

Abundance Scan 1431 (16.960 min): B1046.D (*)



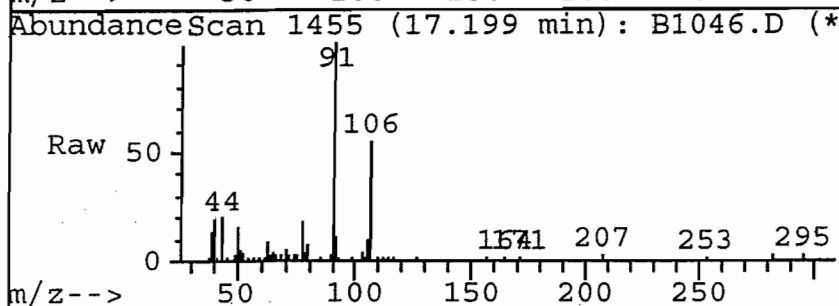
Abundance Scan 1431 (16.960 min): B1046.D (-



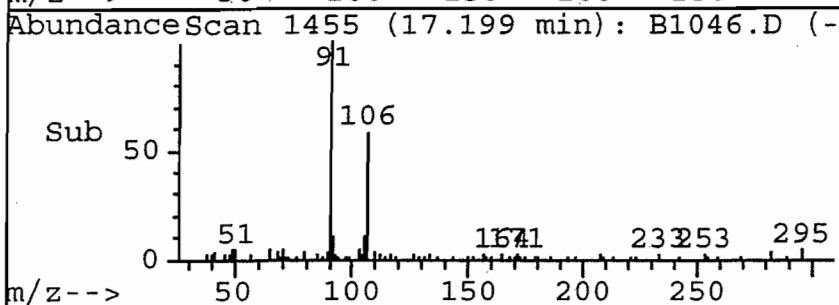
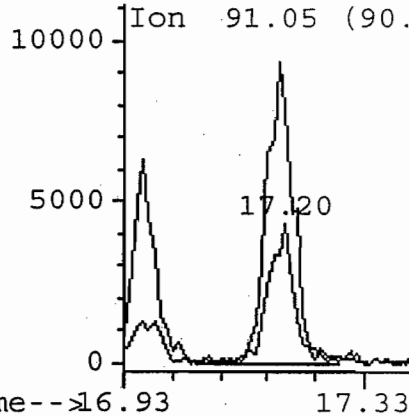


#69
 (m+p)Xylene
 Concen: 0.85 ppb
 RT: 17.20 min Scan# 1455
 Delta R.T. 0.01 min
 Lab File: B1046.D
 Acq: 21 Apr 105 5:45 pm

Tgt Ion:106.1 Resp: 13070
 Ion Ratio Lower Upper
 106 100
 91 182.5 162.2 243.3
 0 0.0 0.0 0.0
 0 0.0 0.0 0.0



AbundanceIon 106.10 (105
 Ion 91.05 (90.



COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL
Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 2

Date Sampled : 04/12/05 10:15 Order #: 806852 Sample Matrix: SOIL/SEDIMENT
Date Received: 04/19/05 Submission #: R2525779 Percent Solid: 90.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/21/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	22 U	UG/KG
BENZENE	5.0	5.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.5 U	UG/KG
BROMOFORM	5.0	5.5 U	UG/KG
BROMOMETHANE	5.0	5.5 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.5 U	UG/KG
CHLOROBENZENE	5.0	5.5 U	UG/KG
CHLOROETHANE	5.0	5.5 U	UG/KG
CHLOROFORM	5.0	5.5 U	UG/KG
CHLOROMETHANE	5.0	5.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
ETHYLBENZENE	5.0	5.5 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
METHYLENE CHLORIDE	5.0	5.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.5 U	UG/KG
TETRACHLOROETHENE	5.0	5.5 U	UG/KG
TOLUENE	5.0	5.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.5 U	UG/KG
TRICHLOROETHENE	5.0	5.5 U	UG/KG
VINYL CHLORIDE	5.0	5.5 U	UG/KG
O-XYLENE	5.0	5.5 U	UG/KG
M+P-XYLENE	5.0	5.5 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS
4-BROMOFLUOROBENZENE	(68 - 128 %)
TOLUENE-D8	(75 - 128 %)
DIBROMOFLUOROMETHANE	(62 - 133 %)

91
93
85%
%
%

44

CP
10/3/07
19

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1047.D
 Acq On : 21 Apr 105 6:21 pm
 Sample : 806852 1.0
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 21 18:49 19105

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Ka 4/22/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.85	168	485260	50.00	ppb	0.00
36) 1,4-Difluorobenzene	11.19	114	850080	50.00	ppb	0.00
60) d5-Chlorobenze	16.71	117	832735	50.00	ppb	0.01
75) d4-1,4-Dichlorobenzene	21.41	152	363456	50.00	ppb	0.00

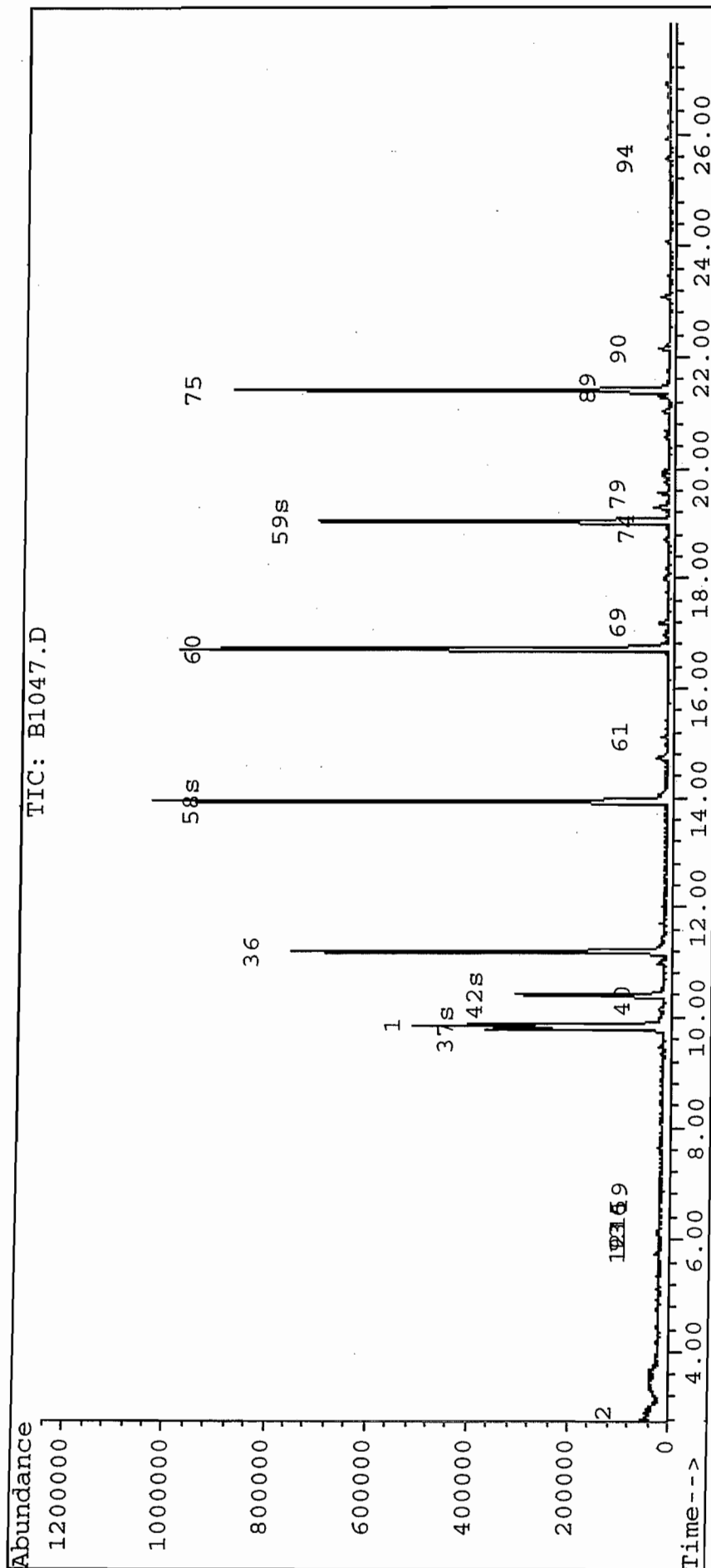
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
37) surr4,Dibrflmethane	9.78	113	317105	42.36	ppb	84.72%
42) surr1,1,2-Dicethane	10.40	65	316862	44.39	ppb	88.79%
58) surr3,Toluene-d8	13.92	98	1078487	46.70	ppb	93.39%
59) surr2,bfb	19.03	95	433555	45.27	ppb	90.55%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.92	85	5438	0.74	ppb	# 92 NT
9) Acrolein	5.89	56	264	41.08	ppb	# 86
12) Acetone	5.84	43	4245	2.59	ppb	# 100
13) Iodomethane	6.02	142	1109	19.75	ppb	# 51
15) Methyl Acetate	6.44	43	1236	0.91	ppb	# 58
16) Acetonitrile	6.39	39	1323	14.06	ppb	# 99
19) TBA	6.76	59	1025	1.60	ppb	# 65
40) Iso Butyl Alcohol	10.32	43	547	1.71	ppb	# 68
61) Tetrachloroethene	15.11	166	3794	0.52	ppb	# 63 <i>45</i>
69) (m+p)Xylene	17.18	106	9460	0.72	ppb	# 80 <i>45</i>
74) Cyclohexanone	18.91	55	906	1.00	ppb	# 59
79) n-Propylbenzene	19.55	91	25243	0.59	ppb	# 93 NT
89) 1,4-Dclbenz	21.46	146	7241	0.51	ppb	# 86
90) n-Butylbenzene	22.15	91	19552	0.67	ppb	# 84
94) 1,2,4-Tcbenzene	25.59	180	4486	0.62	ppb	# 55 <i>45</i>

Quantitation report

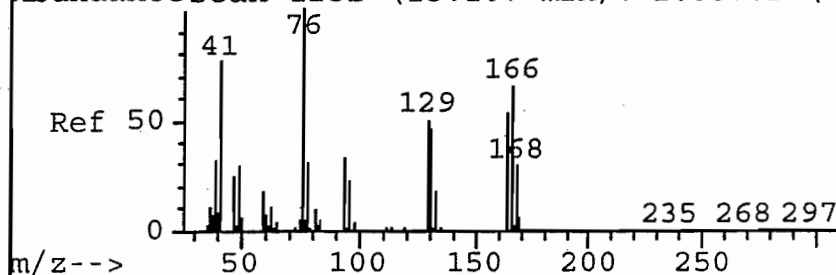
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 Acq On : 21 Apr 105 6:21 pm Vial: 38
 Sample : 806852 1.0 Operator: K.ARNOLD
 Misc : STERN R25-25779 8260B.TCLH Inst : 5971 - In
 Quant Time: Apr 21 18:49 19105 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260vov
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

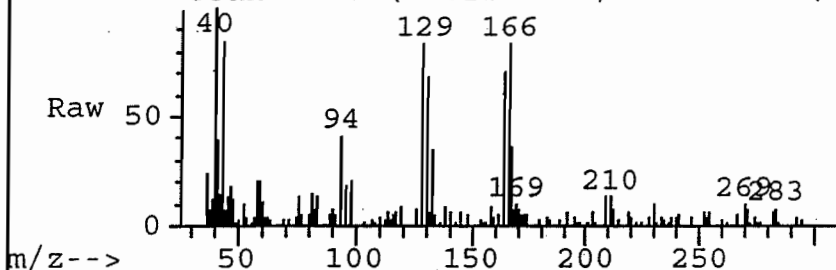


46

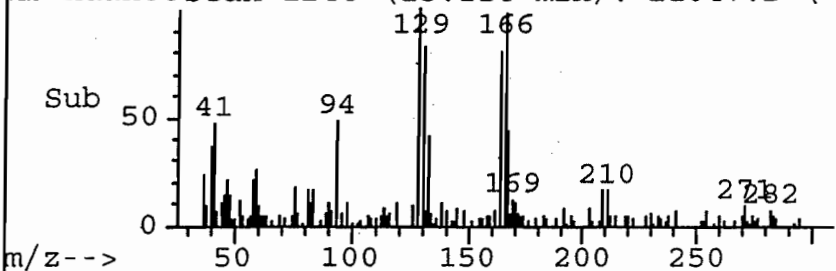
AbundanceScan 1252 (15.107 min): B0837.D (-



AbundanceScan 1246 (15.114 min): B1047.D (*)



AbundanceScan 1246 (15.114 min): B1047.D (-



#61

Tetrachloroethene

Concen: 0.52 ppb

RT: 15.11 min Scan# 1246

Delta R.T. 0.01 min

Lab File: B1047.D

Acq: 21 Apr 105 6:21 pm

Tgt Ion:166 Resp: 3794

Ion Ratio Lower Upper

166 100

168 9.0 35.9 53.8#

129 100.9 61.9 92.8#

0 0.0 0.0 0.0

AbundanceIon 166.00 (165

Ion 168.00 (167

Ion 129.00 (128

2000

1500

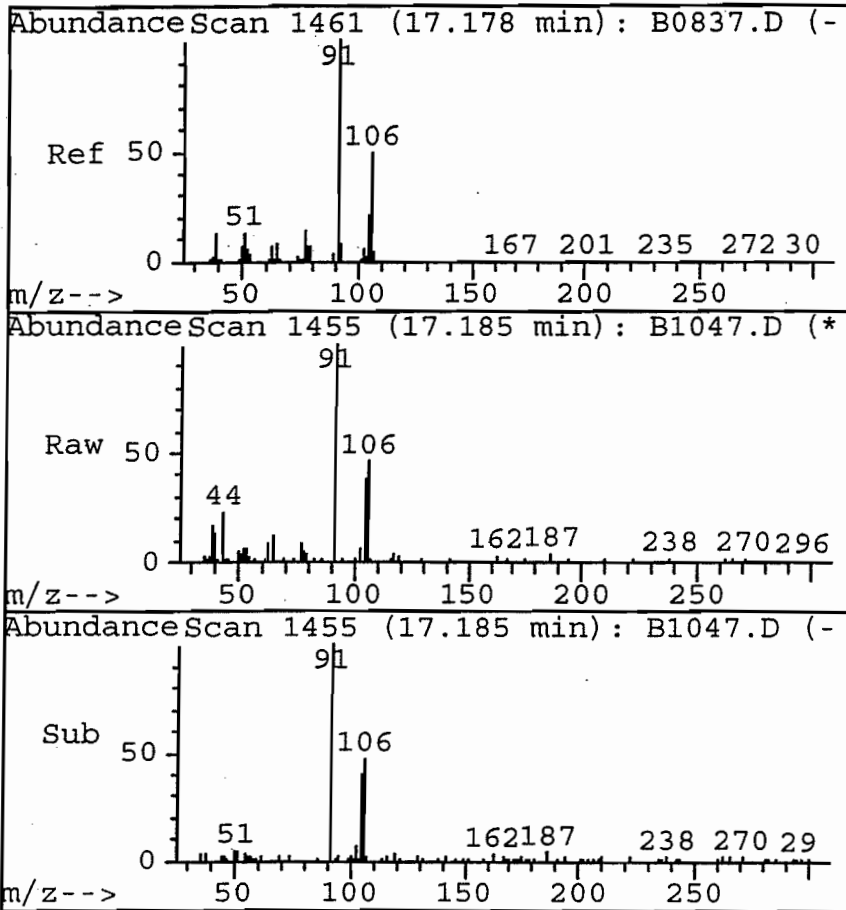
1000

500

0

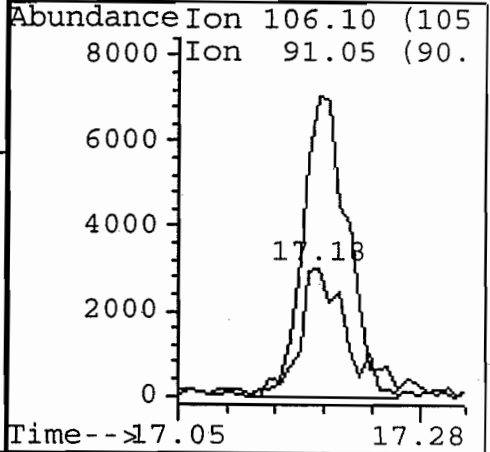
15.11

Time-->15.00 15.19



#69
 (m+p)Xylene
 Concen: 0.72 ppb
 RT: 17.18 min Scan# 1455
 Delta R.T. 0.00 min
 Lab File: B1047.D
 Acq: 21 Apr 105 6:21 pm

Tgt Ion	Ratio	Lower	Upper
106	100		
91	233.5	162.2	243.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 3

Date Sampled : 04/12/05 10:20 Order #: 806853 Sample Matrix: SOIL/SEDIMENT
Date Received: 04/19/05 Submission #: R2525779 Percent Solid: 90.8

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/21/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	22 U	UG/KG
BENZENE	5.0	5.5 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.5 U	UG/KG
BROMOFORM	5.0	5.5 U	UG/KG
BROMOMETHANE	5.0	5.5 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.5 U	UG/KG
CHLOROBENZENE	5.0	5.5 U	UG/KG
CHLOROETHANE	5.0	5.5 U	UG/KG
CHLOROFORM	5.0	5.5 U	UG/KG
CHLOROMETHANE	5.0	5.5 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.5 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.5 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.5 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.5 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.5 U	UG/KG
ETHYLBENZENE	5.0	5.5 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
METHYLENE CHLORIDE	5.0	5.5 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.5 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.5 U	UG/KG
TETRACHLOROETHENE	5.0	5.5 U	UG/KG
TOLUENE	5.0	5.5 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.5 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.5 U	UG/KG
TRICHLOROETHENE	5.0	5.5 U	UG/KG
VINYL CHLORIDE	5.0	5.5 U	UG/KG
O-XYLENE	5.0	5.5 U	UG/KG
M+P-XYLENE	5.0	5.5 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS
4-BROMOFLUOROBENZENE	(68 - 128 %)
TOLUENE-D8	(75 - 128 %)
DIBROMOFLUOROMETHANE	(62 - 133 %)

93

%

97

%

86

%

49 CP 10/3/07 26

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1048.D
 Acq On : 21 Apr 105 6:56 pm
 Sample : 806853 1.0
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 21 19:24 19105

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

La 4/22/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.85	168	502299	50.00	ppb	0.00
36) 1,4-Difluorobenzene	11.19	114	874521	50.00	ppb	0.00
60) d5-Chlorobenze	16.72	117	898058	50.00	ppb	0.02
75) d4-1,4-Dichlorobenzene	21.41	152	385600	50.00	ppb	0.00

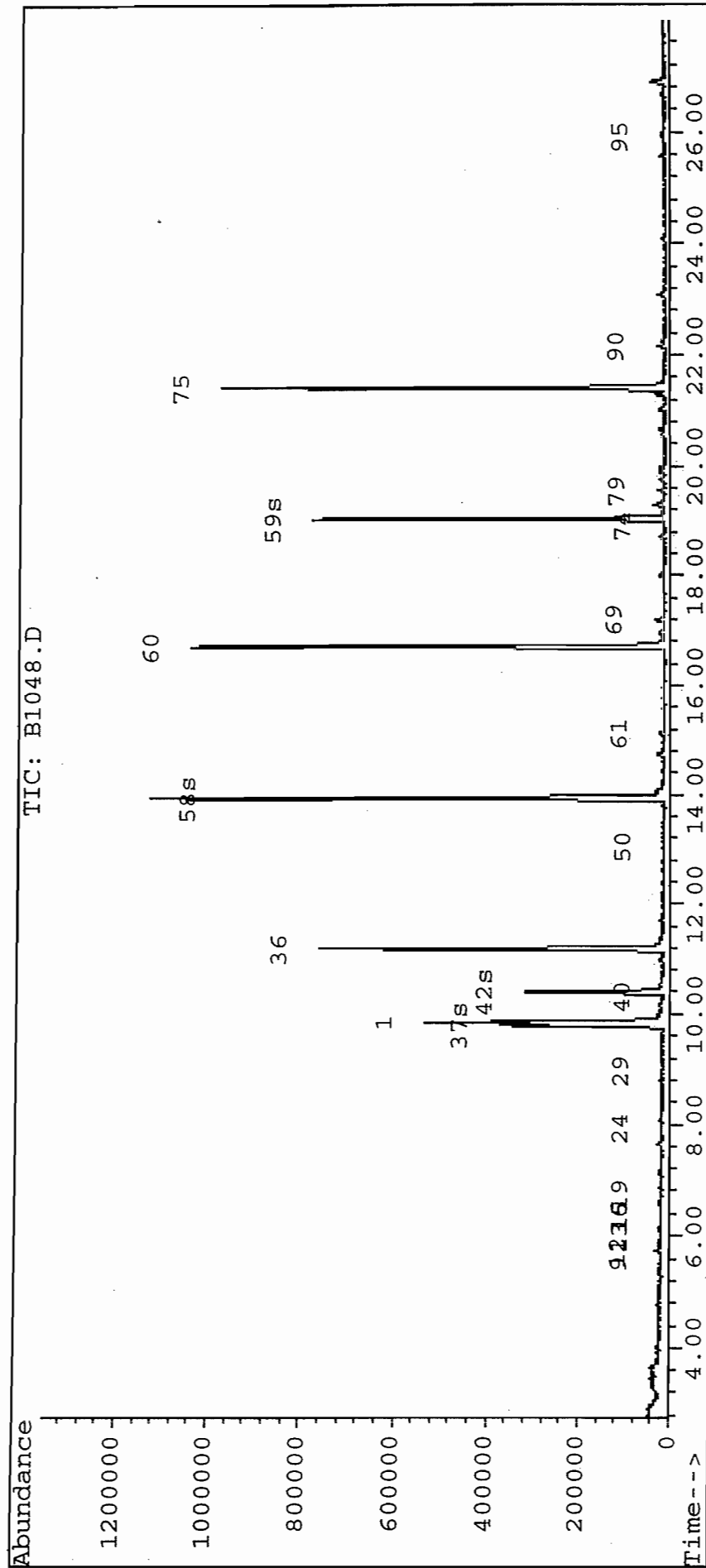
System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.79	113	332748	43.21	ppb	86.42%
42) surr1,1,2-Dicethane	10.39	65	325537	44.33	ppb	88.67%
58) surr3,Toluene-d8	13.93	98	1157204	48.70	ppb	97.41%
59) surr2,bfb	19.03	95	456905	46.38	ppb	92.76%

Target Compounds						Qvalue
9) Acrolein	5.51	56	226	40.99	ppb	99
12) Acetone	5.71	43	1342	0.79	ppb	96
13) Iodomethane	6.01	142	412	19.68	ppb	26
15) Methyl Acetate	6.38	43	853	0.61	ppb	# 58
16) Acetonitrile	6.33	39	1692	17.37	ppb	# 59
19) TBA	6.72	59	866	1.31	ppb	# 37
24) Vinyl Acetate	7.95	42	610	0.77	ppb	# 19
29) Propionitrile	8.97	54	794	1.09	ppb	# 68
40) Iso-Butyl Alcohol	10.33	43	485	1.48	ppb	78
50) 2-Nitropropane	13.05	41	1220	0.68	ppb	# 44
61) Tetrachloroethene	15.12	166	4714	0.60	ppb	# 65
69) (m+p)Xylene	17.19	106	10715	0.76	ppb	99
74) Cyclohexanone	18.91	55	561	0.58	ppb	# 77
79) n-Propylbenzene	19.54	91	23336	0.51	ppb	# 74
90) n-Butylbenzene	22.15	91	17776	0.57	ppb	98
95) Hexachlorobt	25.92	225	1928	0.53	ppb	# 79

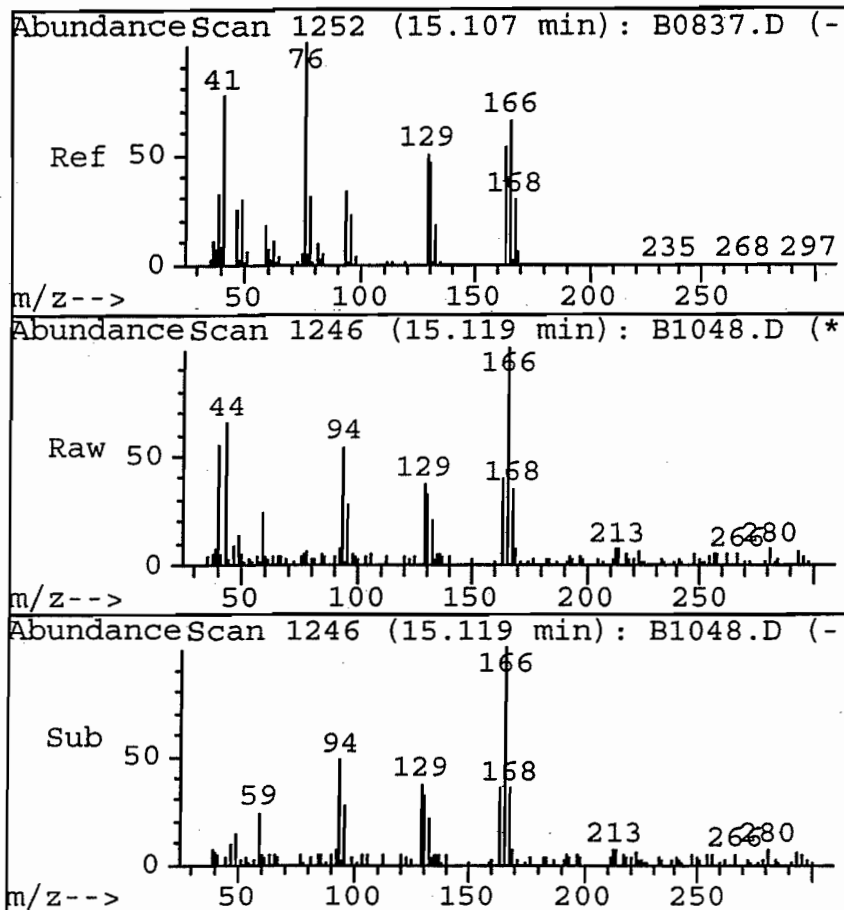
Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1048.D Vial: 39
 Acq On : 21 Apr 105 6:56 pm Operator: K.ARNOLD
 Sample : 806853 1.0 Inst : 5971 - In
 Misc : STERN R25-25779 8260B.TCLH Multiplr: 1.00
 Quant Time: Apr 21 19:24 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

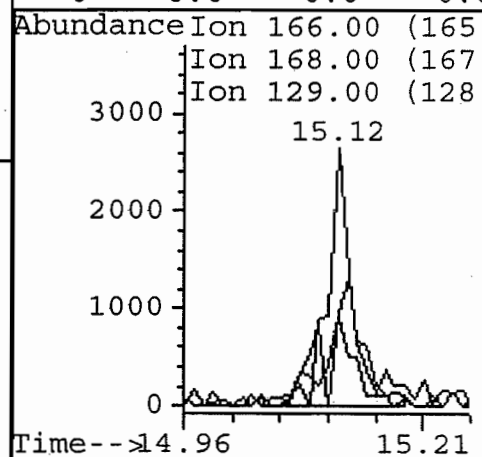


51

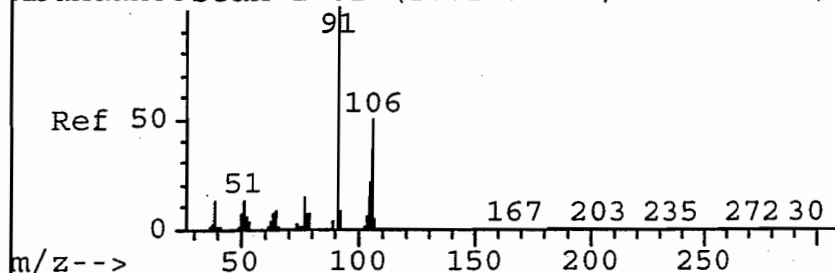


#61
Tetrachloroethene
Concen: 0.60 ppb
RT: 15.12 min Scan# 1246
Delta R.T. 0.02 min
Lab File: B1048.D
Acq: 21 Apr 105 6:56 pm

Tgt Ion:166 Resp: 4714
Ion Ratio Lower Upper
166 100
168 34.7 35.9 53.8#
129 36.6 61.9 92.8#
0 0.0 0.0 0.0



AbundanceScan 1461 (17.178 min): B0837.D (-



#69

(m+p)Xylene

Concen: 0.76 ppb

RT: 17.19 min Scan# 1455

Delta R.T. 0.01 min

Lab File: B1048.D

Acq: 21 Apr 105 6:56 pm

Tgt Ion:106.1 Resp: 10715

Ion Ratio Lower Upper

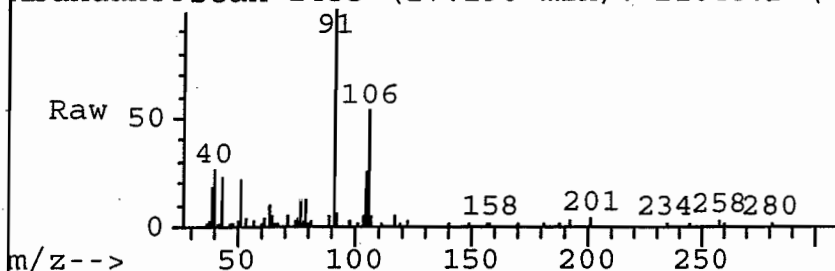
106 100

91 201.2 162.2 243.3

0 0.0 0.0 0.0

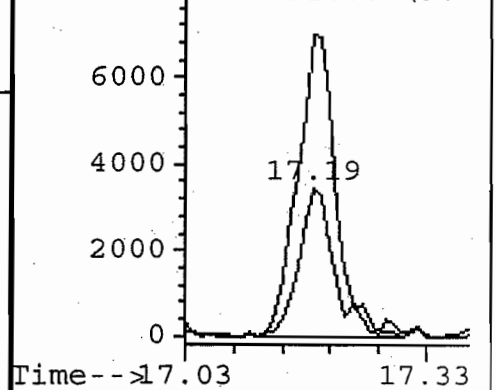
0 0.0 0.0 0.0

AbundanceScan 1455 (17.190 min): B1048.D (*)

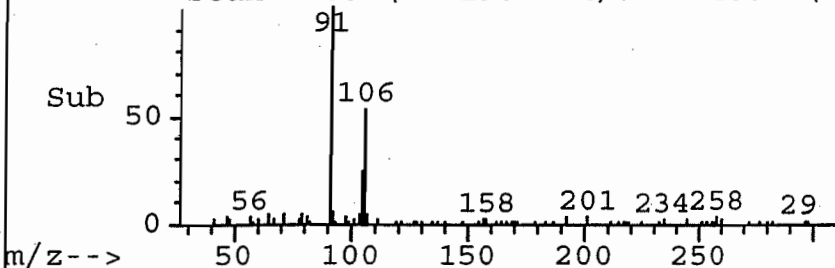


AbundanceIon 106.10 (105

8000 Ion 91.05 (90.



AbundanceScan 1455 (17.190 min): B1048.D (-



COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B TCL
Reported: 05/04/05

Stern Properties

Project Reference: SOIL REMOVAL IRM 320 N GOODMAN ST #041105

Client Sample ID : STOCKPILE 4

Date Sampled : 04/12/05 10:30 Order #: 806854 Sample Matrix: SOIL/SEDIMENT
Date Received: 04/19/05 Submission #: R2525779 Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/21/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	22 U	UG/KG
BENZENE	5.0	5.6 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.6 U	UG/KG
BROMOFORM	5.0	5.6 U	UG/KG
BROMOMETHANE	5.0	5.6 U	UG/KG
2-BUTANONE (MEK)	10	11 U	UG/KG
CARBON DISULFIDE	10	11 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.6 U	UG/KG
CHLOROBENZENE	5.0	5.6 U	UG/KG
CHLOROETHANE	5.0	5.6 U	UG/KG
CHLOROFORM	5.0	5.6 U	UG/KG
CHLOROMETHANE	5.0	5.6 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.6 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.6 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.6 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.6 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.6 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.6 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.6 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.6 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.6 U	UG/KG
ETHYLBENZENE	5.0	5.6 U	UG/KG
2-HEXANONE	10	11 U	UG/KG
METHYLENE CHLORIDE	5.0	5.6 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	11 U	UG/KG
STYRENE	5.0	5.6 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.6 U	UG/KG
TETRACHLOROETHENE	5.0	5.6 U	UG/KG
TOLUENE	5.0	5.6 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.6 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.6 U	UG/KG
TRICHLOROETHENE	5.0	5.6 U	UG/KG
VINYL CHLORIDE	5.0	5.6 U	UG/KG
O-XYLENE	5.0	5.6 U	UG/KG
M+P-XYLENE	5.0	5.6 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)
TOLUENE-D8	(75 - 128 %)
DIBROMOFLUOROMETHANE	(62 - 133 %)

92

94

85

%

%

%

54 CP
10/3/07
33

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1049.D
 Acq On : 21 Apr 105 7:31 pm
 Sample : 806854 1.0
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 21 19:59 19105

Vial: 40
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

164/22/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.85	168	486771	50.00	ppb	0.00
36) 1,4-Difluorobenzene	11.19	114	868127	50.00	ppb	0.00
60) d5-Chlorobenze	16.71	117	838542	50.00	ppb	0.01
75) d4-1,4-Dichlorobenzene	21.41	152	363458	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
37) surr4,Dibrflmethane	9.78	113	324111	42.40	ppb	84.79%
42) surr1,1,2-Diclethane	10.40	65	308708	42.35	ppb	84.70%
58) surr3,Toluene-d8	13.93	98	1113043	47.19	ppb	94.38%
59) surr2,bfb	19.03	95	449869	46.00	ppb	92.00%

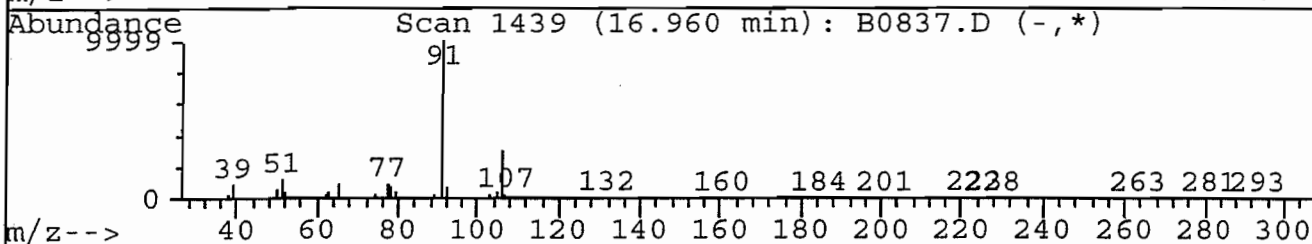
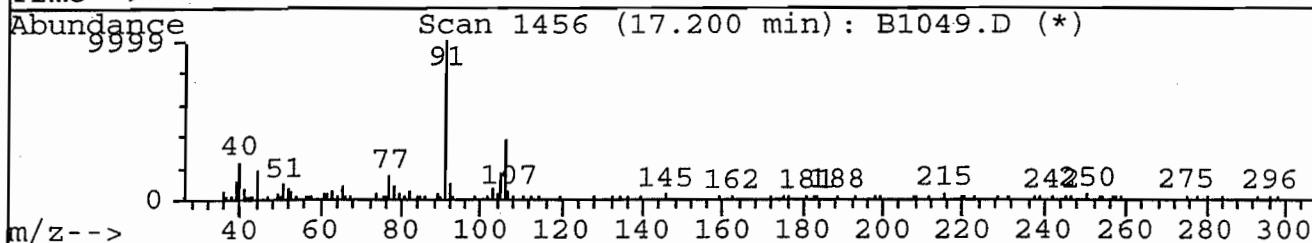
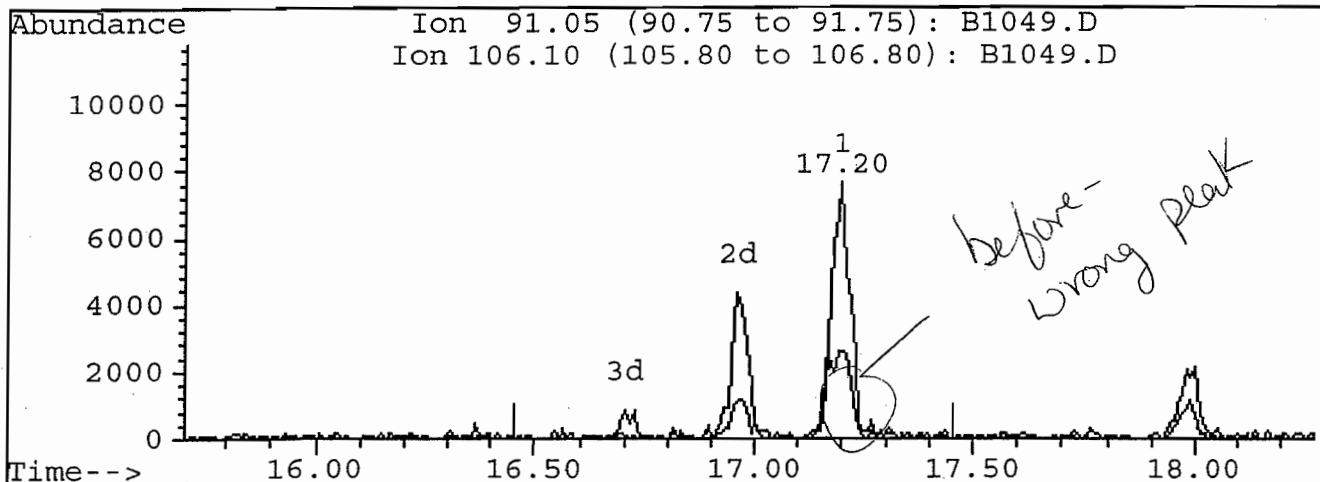
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.92	85	5463	0.74	ppb	# 95 NT
9) Aerolein	5.51	56	293	41.13	ppb	# 88
12) Acetone	5.86	43	2825	1.72	ppb	# 1
13) Iodomethane	6.02	142	93	19.65	ppb	# 91
16) Acetonitrile	6.19	39	870	9.22	ppb	# 96
24) Vinyl Acetate	7.96	42	444	0.58	ppb	# 17
27) 2-Butanone	8.99	43	2740	0.90	ppb	# 63
29) Propionitrile	8.99	54	396	0.56	ppb	# 3
39) 1,1-Dichloropropene	10.14	75	5711	0.53	ppb	# 88 NT
40) Iso Butyl Alcohol	10.38	43	632	1.94	ppb	# 86
50) 2-Nitropropane	12.94	41	966	0.54	ppb	# 86
61) Tetrachloroethene	15.12	166	4540	0.62	ppb	# 42 J
68) Ethylbenzene	16.96 17.20	91 114 16	223 10	0.32 0.63	ppbm	(a) 92
69) (m+p) Xylene	17.19	106	8848	0.67	ppb	# 63
74) Cyclohexanone	18.90	55	671	0.74	ppb	# 39
79) n-Propylbenzene	19.55	91	24673	0.57	ppb	# 95 NT
89) 1,4-Dclbenz	21.45	146	8181	0.58	ppb	# 84
90) n-Butylbenzene	22.15	91	24216	0.83	ppb	# 72
94) 1,2,4-Tcbenzene	25.58	180	4029	0.56	ppb	# 90
95) Hexachlorobt	25.93	225	2381	0.69	ppb	# 66

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1049.D
 Acq On : 21 Apr 105 7:31 pm
 Sample : 806854 1.0
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 22 9:37 19105

Vial: 40
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1049.D

(68) Ethylbenzene (c)

17.20min 0.63ppb

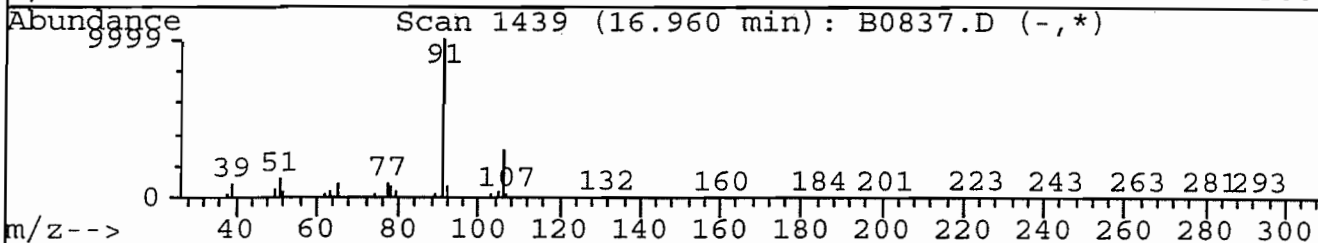
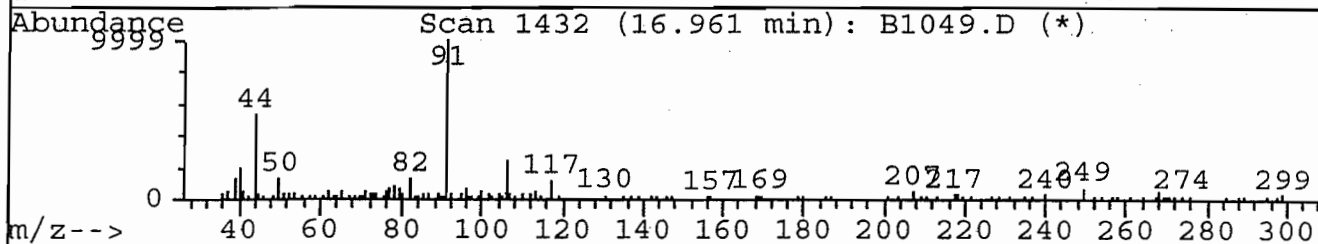
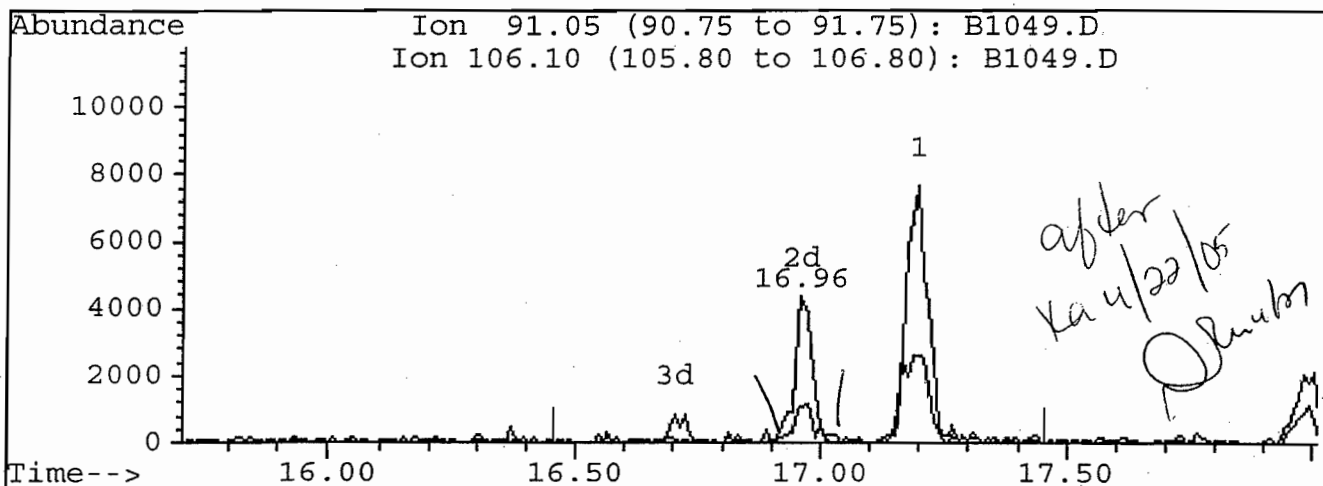
response 22310

Ion	Exp%	Act%
91.05	100	100
106.10	30.00	34.12
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1049.D
 Acq On : 21 Apr 105 7:31 pm
 Sample : 806854 1.0
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 22 9:37 19105

Vial: 40
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1049.D

(68) Ethylbenzene (c)

16.96min 0.32ppb m

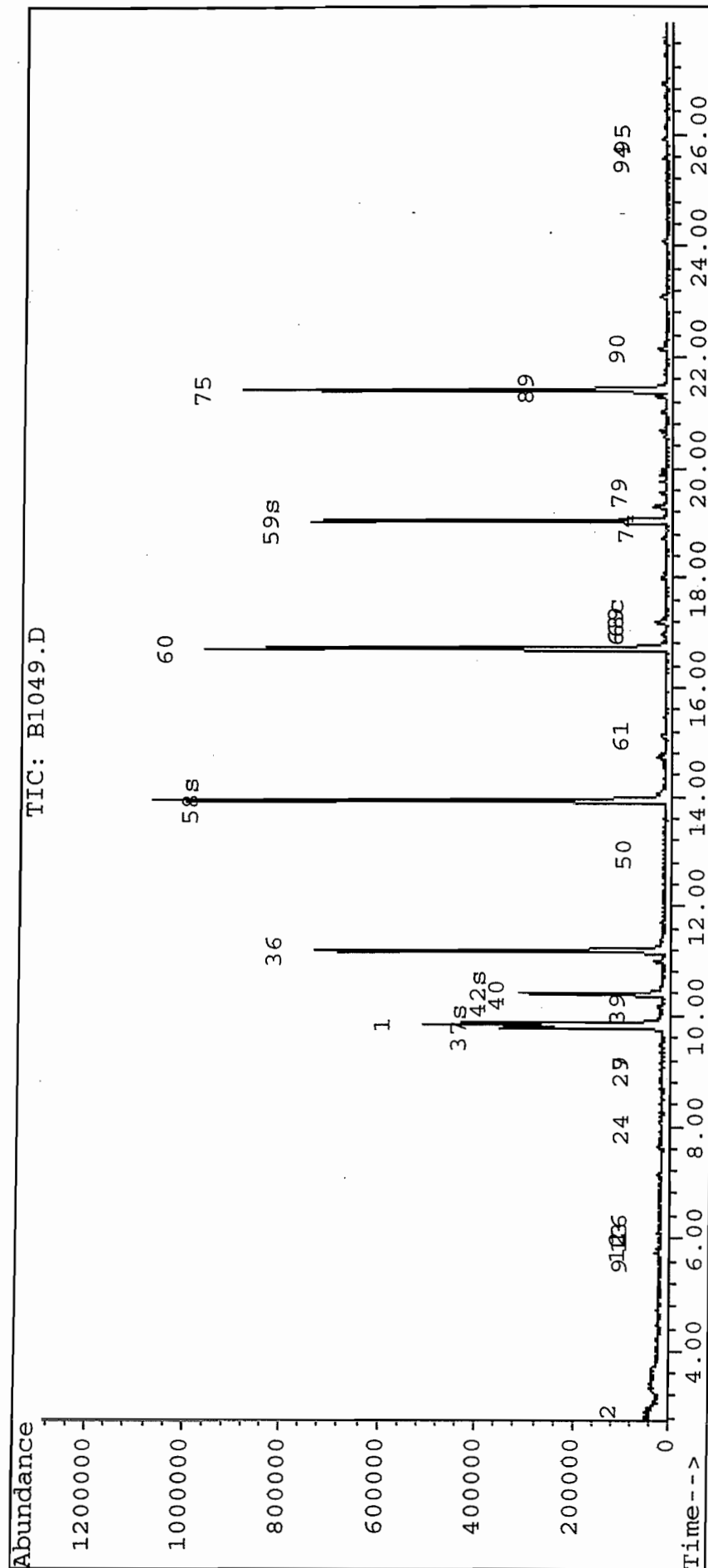
response 11416

Ion	Exp%	Act%
91.05	100	100
106.10	30.00	24.04
0.00	0.00	0.00
0.00	0.00	0.00

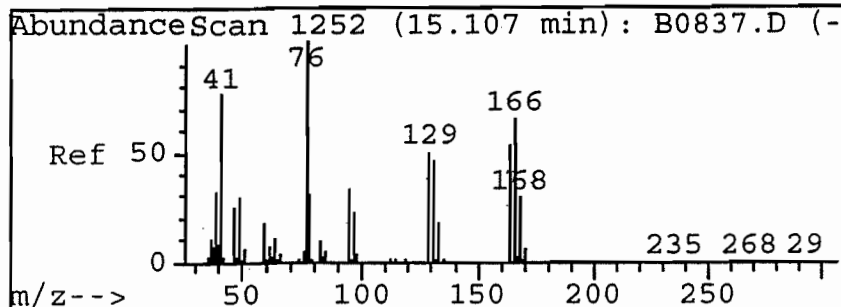
Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1049.D Vial: 40
 Acq On : 21 Apr 105 7:31 pm Operator: K.ARNOLD
 Sample : 806854 1.0 Inst : 5971 - In
 Misc : STERN R25-25779 8260B.TCLH Multiplr: 1.00
 Quant Time: Apr 21 19:59 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

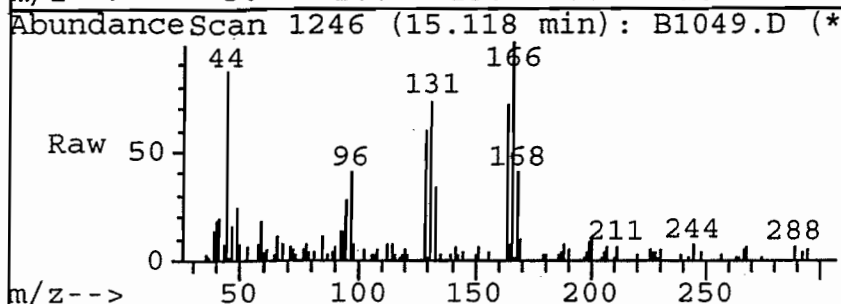


CT
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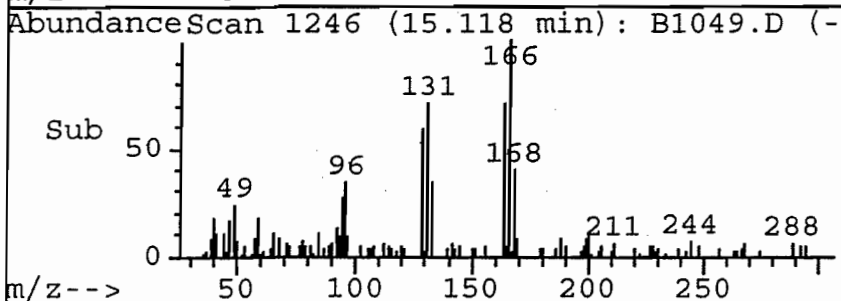
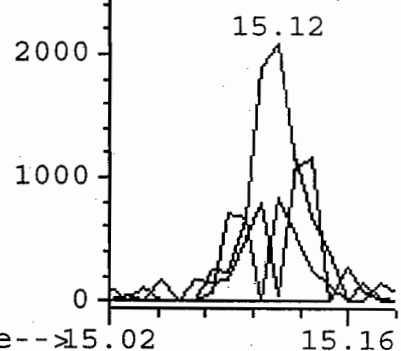


#61
 Tetrachloroethene
 Concen: 0.62 ppb
 RT: 15.12 min Scan# 1246
 Delta R.T. 0.01 min
 Lab File: B1049.D
 Acq: 21 Apr 105 7:31 pm

Tgt Ion:166 Resp: 4540
 Ion Ratio Lower Upper
 166 100
 168 39.8 35.9 53.8
 129 1.7 61.9 92.8#
 0 0.0 0.0 0.0



AbundanceIon 166.00 (165
 Ion 168.00 (167
 Ion 129.00 (128



8260 VOLATILE ORGANICS

STANDARDS DATA

Initial Calibration - Detailed Report

Calibration ID: CAL306 MS#5 8260B Soils
 Method ID: MJ118
 I-CAL Date 4/6/05

Instrument ID: 5971 - Inst # 5
 Column Name: MSD B-624
 Calibration Fit: AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
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2089	J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D	04/06/2005 12:28	04/06/2005 16:00	04/26/2005 16:45
2090	J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D	04/06/2005 13:03	04/06/2005 16:01	04/26/2005 16:45
2091	J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D	04/06/2005 13:38	04/06/2005 14:09	04/26/2005 16:45
2092	J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D	04/06/2005 14:14	04/06/2005 15:30	04/26/2005 16:45
2093	J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D	04/06/2005 14:49	04/06/2005 15:28	04/26/2005 16:45
2094	J:\ACQUDATA\MSVOA5\DATA\040605\B0840.D	04/06/2005 15:24	04/06/2005 15:55	04/26/2005 16:45

Parameter Name	FileID							Mean RF	%RSD
	2088	2089	2090	2091	2092	2093	2094		
Dichlorodifluoromethane	0.605	0.806	0.701	0.789	0.888	0.734	0.789	0.759	11.8
Chloromethane	0.745	0.863	0.738	0.789	0.854	0.718	0.761	0.781	7.3
Vinyl Chloride	0.519	0.667	0.520	0.578	0.632	0.548	0.570	0.576	9.7
Bromomethane	0.839	0.893	0.737	0.672	0.661	0.594	0.619	0.716	15.7#
Chloroethane	0.340	0.422	0.346	0.382	0.418	0.360	0.367	0.376	8.7
Trichlorofluoromethane	0.829	1.206	1.046	1.105	1.265	1.085	1.114	1.093	12.7
Diethyl Ether	0.403	0.478	0.415	0.456	0.456	0.403	0.410	0.432	7.1
Acrolein		0.035	0.033	0.040	0.052	0.049	0.054	0.044	20.8#
Trichlorotrifluoroethane	0.255	0.306	0.290	0.279	0.321	0.275	0.285	0.287	7.5
1,1-Dichloroethene	0.379	0.558	0.500	0.556	0.619	0.526	0.558	0.528	14.2
Petone			0.162	0.181	0.178	0.153	0.170	0.169	6.8
Iodomethane (Methyl Iodide)			0.119	0.518	0.845	0.841	0.903	0.645	51.3#
Carbon Disulfide	2.025	2.291	2.236	2.282	2.535	2.162	2.228	2.251	6.9
Acetonitrile			0.009	0.010	0.010	0.010	0.009	0.010	6.8
Allyl Chloride	0.251	0.295	0.299	0.307	0.322	0.287	0.312	0.296	7.8
Methylene Chloride	0.663	0.730	0.624	0.714	0.749	0.654	0.665	0.686	6.7
tert-Butyl Alcohol	0.058	0.073	0.064	0.074	0.069	0.059	0.065	0.066	9.4
Methyl tert-Butyl Ether	1.593	1.799	1.590	1.738	1.718	1.518	1.582	1.648	6.2
Acrylonitrile	0.155	0.190	0.181	0.200	0.190	0.172	0.176	0.181	8.1
trans-1,2-Dichloroethene	0.555	0.719	0.618	0.683	0.761	0.663	0.700	0.671	10.1
1,1-Dichloroethane	1.232	1.418	1.216	1.302	1.409	1.223	1.249	1.293	6.8
Vinyl Acetate	0.093	0.071	0.078	0.076	0.082	0.075	0.075	0.079	9.0
2-Chloro-1,3-butadiene	0.825	1.000	0.955	1.009	1.078	0.931	0.937	0.962	8.2
2,2-Dichloropropane	1.081	1.201	1.064	1.141	1.273	1.097	1.135	1.142	6.4
2-Butanone (MEK)		0.336	0.318	0.294	0.315	0.273	0.284	0.303	7.8
cis-1,2-Dichloroethene	0.723	0.871	0.764	0.821	0.878	0.756	0.797	0.801	7.3
Propionitrile	0.076	0.071	0.069	0.079	0.076	0.064	0.071	0.072	6.8
Methacrylonitrile	0.206	0.191	0.211	0.219	0.224	0.197	0.203	0.207	5.7
Bromochloromethane	0.325	0.370	0.368	0.407	0.409	0.380	0.389	0.378	7.5
Tetrahydrofuran		0.230	0.181	0.181	0.162	0.153	0.153	0.177	16.4#
Chloroform	1.433	1.559	1.340	1.464	1.485	1.315	1.369	1.424	6.1
1,1,1-Trichloroethane (TCA)	0.991	1.225	1.062	1.099	1.277	1.100	1.143	1.128	8.6
Dibromofluoromethane			0.407	0.401	0.488	0.453	0.452	0.440	8.2
Carbon Tetrachloride	0.485	0.588	0.487	0.551	0.643	0.533	0.554	0.549	10.1
1,1-Dichloropropene	0.533	0.699	0.563	0.618	0.715	0.600	0.614	0.620	10.7
Isobutyl Alcohol	0.016	0.021	0.018	0.020	0.021	0.017	0.018	0.019	9.6
Benzene	1.614	1.793	1.496	1.644	1.835	1.526	1.547	1.636	8.1
1,2-Dichloroethane-d4			0.421	0.383	0.455	0.414	0.425	0.420	6.1
1,2-Dichloroethane (EDC)	0.670	0.681	0.566	0.633	0.639	0.552	0.548	0.618	9.2

Initial Calibration - Detailed Report

Calibration ID: CAL306
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: AverageRF

Parameter Name	FileID							Mean RF	%RSD
	2088	2089	2090	2091	2092	2093	2094		
1,1,1-Trichloroethene (TCE)	0.439	0.506	0.460	0.494	0.562	0.478	0.498	0.491	8.0
1,1-Dichloropropane	0.489	0.504	0.426	0.484	0.507	0.447	0.446	0.472	6.8
Methyl Methacrylate	0.196	0.253	0.222	0.250	0.251	0.234	0.237	0.235	8.7
1,1-Dibromomethane	0.279	0.342	0.287	0.315	0.348	0.303	0.311	0.312	8.2
1,1-Dibromodichloromethane	0.571	0.722	0.610	0.674	0.728	0.629	0.644	0.654	8.8
2-Nitropropane		0.092	0.089	0.114	0.116	0.100	0.104	0.103	10.7
cis-1,3-Dichloropropene	0.720	0.839	0.701	0.813	0.865	0.745	0.770	0.779	7.9
4-Methyl-2-pentanone (MIBK)	0.431	0.583	0.474	0.519	0.518	0.422	0.437	0.483	12.3
1-Toluene	1.647	2.015	1.665	1.788	2.013	1.666	1.743	1.791	8.9
trans-1,3-Dichloropropene	0.632	0.701	0.613	0.719	0.783	0.678	0.681	0.687	8.2
Methyl Methacrylate	0.483	0.568	0.490	0.555	0.590	0.512	0.514	0.530	7.7
1,1,2-Trichloroethane	0.322	0.352	0.324	0.355	0.375	0.316	0.335	0.340	6.4
Toluene-d8			1.321	1.250	1.504	1.370	1.347	1.358	6.8
4-Bromofluorobenzene			0.554	0.534	0.619	0.557	0.552	0.563	5.7
1,1,1-Trichloroethene (PCE)	0.376	0.467	0.389	0.423	0.500	0.444	0.454	0.436	10.0
2-Hexanone	0.273	0.369	0.302	0.361	0.361	0.321	0.331	0.331	10.7
1,3-Dichloropropane	0.658	0.733	0.639	0.682	0.727	0.632	0.643	0.673	6.2
1,1-Dibromochloromethane	0.434	0.461	0.426	0.470	0.534	0.478	0.490	0.470	7.7
1,1-Dibromoethane (EDB)	0.396	0.462	0.380	0.424	0.467	0.424	0.438	0.427	7.5
Chlorobenzene	1.223	1.268	1.099	1.183	1.325	1.168	1.196	1.209	6.0
1,1,1,2-Tetrachloroethane	0.406	0.451	0.375	0.426	0.476	0.436	0.441	0.430	7.6
1-Tolylbenzene	1.982	2.270	1.970	2.048	2.422	2.067	2.066	2.118	7.9
m,p-Xylenes	0.721	0.848	0.715	0.768	0.910	0.765	0.770	0.785	8.9
o-Xylene	0.690	0.827	0.714	0.756	0.870	0.773	0.781	0.773	8.0
1-Toluene	1.214	1.369	1.246	1.303	1.466	1.289	1.313	1.314	6.3
1-Formoform	0.214	0.256	0.218	0.263	0.286	0.258	0.273	0.253	10.7
Isopropylbenzene	1.755	2.145	1.859	1.940	2.335	1.993	1.971	2.000	9.5
1-Cyclohexanone	0.055	0.062	0.055	0.055	0.056	0.048	0.050	0.054	8.3
1,1,2,2-Tetrachloroethane	1.204	1.446	1.148	1.308	1.268	1.196	1.232	1.258	7.8
1,2,3-Trichloropropane	0.295	0.341	0.279	0.315	0.308	0.283	0.299	0.303	7.0
trans-1,4-Dichloro-2-butene	0.231	0.302	0.254	0.299	0.282	0.271	0.280	0.274	9.1
1-Propylbenzene	5.238	6.755	5.260	5.901	6.475	5.950	5.770	5.907	9.6
1-Toluene	1.061	1.185	0.966	1.109	1.185	1.082	1.137	1.103	7.0
1,3,5-Trimethylbenzene	3.393	4.290	3.327	3.719	4.152	3.780	3.765	3.775	9.4
Chlorotoluene	3.368	3.978	3.148	3.471	3.721	3.439	3.466	3.513	7.6
Chlorotoluene	3.413	4.023	3.172	3.613	3.803	3.528	3.533	3.584	7.6
tert-Butylbenzene	2.716	3.494	2.723	3.094	3.436	3.129	3.227	3.117	9.9
1,2,4-Trimethylbenzene	3.459	4.225	3.273	3.701	3.984	3.631	3.697	3.710	8.5
n-Butylbenzene	4.267	5.633	4.426	4.919	5.474	4.964	4.963	4.950	10.0
4-Isopropyltoluene	3.413	4.474	3.447	3.897	4.350	3.956	4.019	3.937	10.3
1,3-Dichlorobenzene	1.885	2.178	1.769	1.971	2.133	1.945	2.018	1.985	7.1
4-Dichlorobenzene	1.845	2.156	1.769	1.934	2.108	1.884	1.958	1.951	7.1
n-Butylbenzene	3.192	4.431	3.712	4.078	4.580	4.049	4.160	4.029	11.5
1,2-Dichlorobenzene	1.663	2.045	1.614	1.791	1.926	1.758	1.822	1.803	8.2
2-Dibromo-3-chloropropane (DBCP)	0.118	0.169	0.142	0.177	0.184	0.171	0.189	0.164	15.4*
2,4-Trichlorobenzene	0.865	1.060	0.931	0.963	1.144	0.954	1.061	0.997	9.5
1,2-Dichlorobutadiene	0.378	0.552	0.442	0.480	0.512	0.455	0.505	0.475	11.9
1-Naphthalene	1.804	2.163	1.902	2.146	2.302	2.042	2.283	2.092	9.0
1,2,3-Trichlorobenzene	0.742	0.938	0.807	0.872	1.006	0.865	0.949	0.883	10.2

Initial Calibration - Detailed Report

Calibration ID: CAL306
Method ID: MJ118

Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: AverageRF

#RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

1 compound out of 88 failed Maximum %RSD criteria

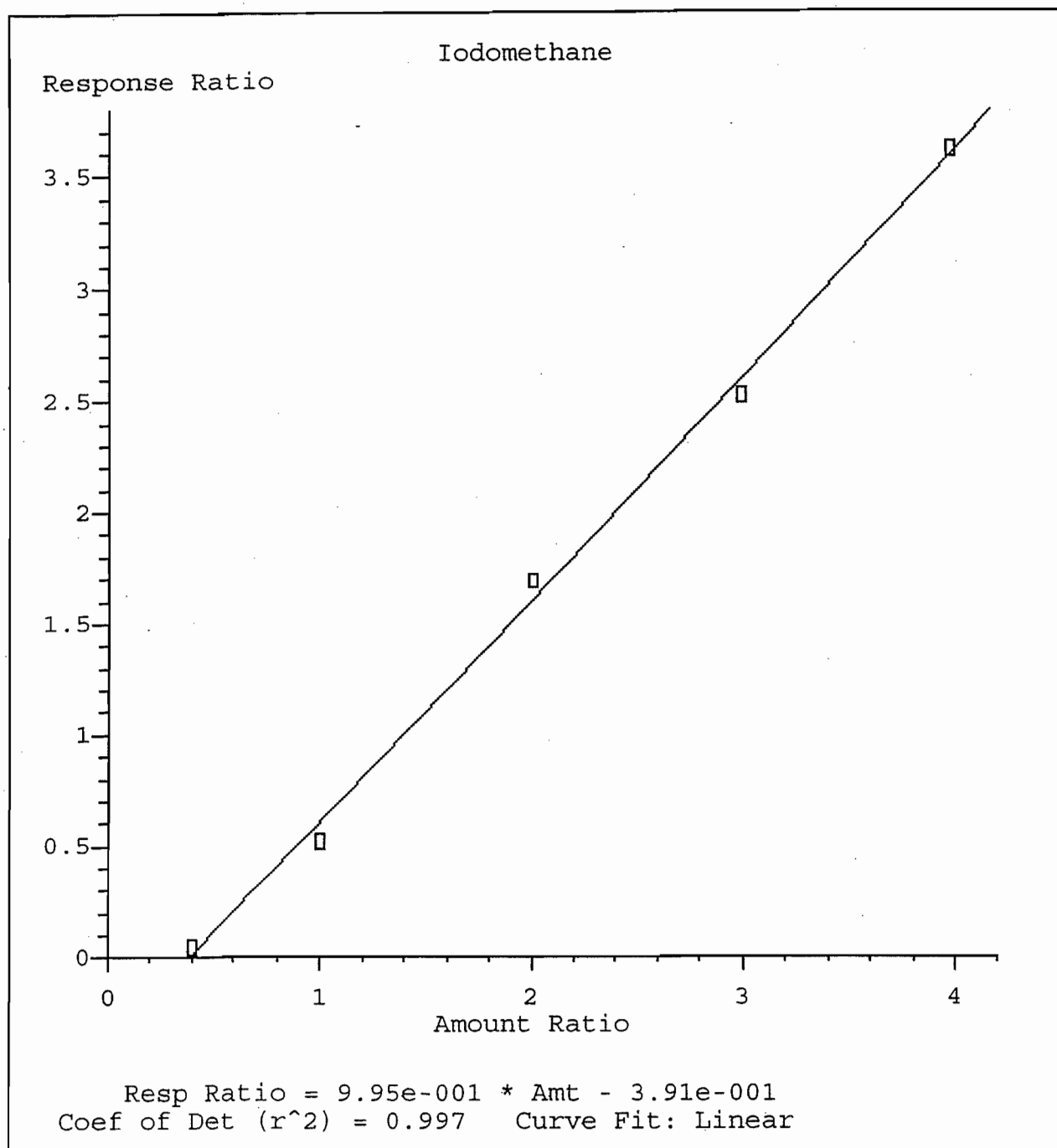
Initial Calibration - Detailed Report

Calibration ID: CAL306
Method ID: MJ118

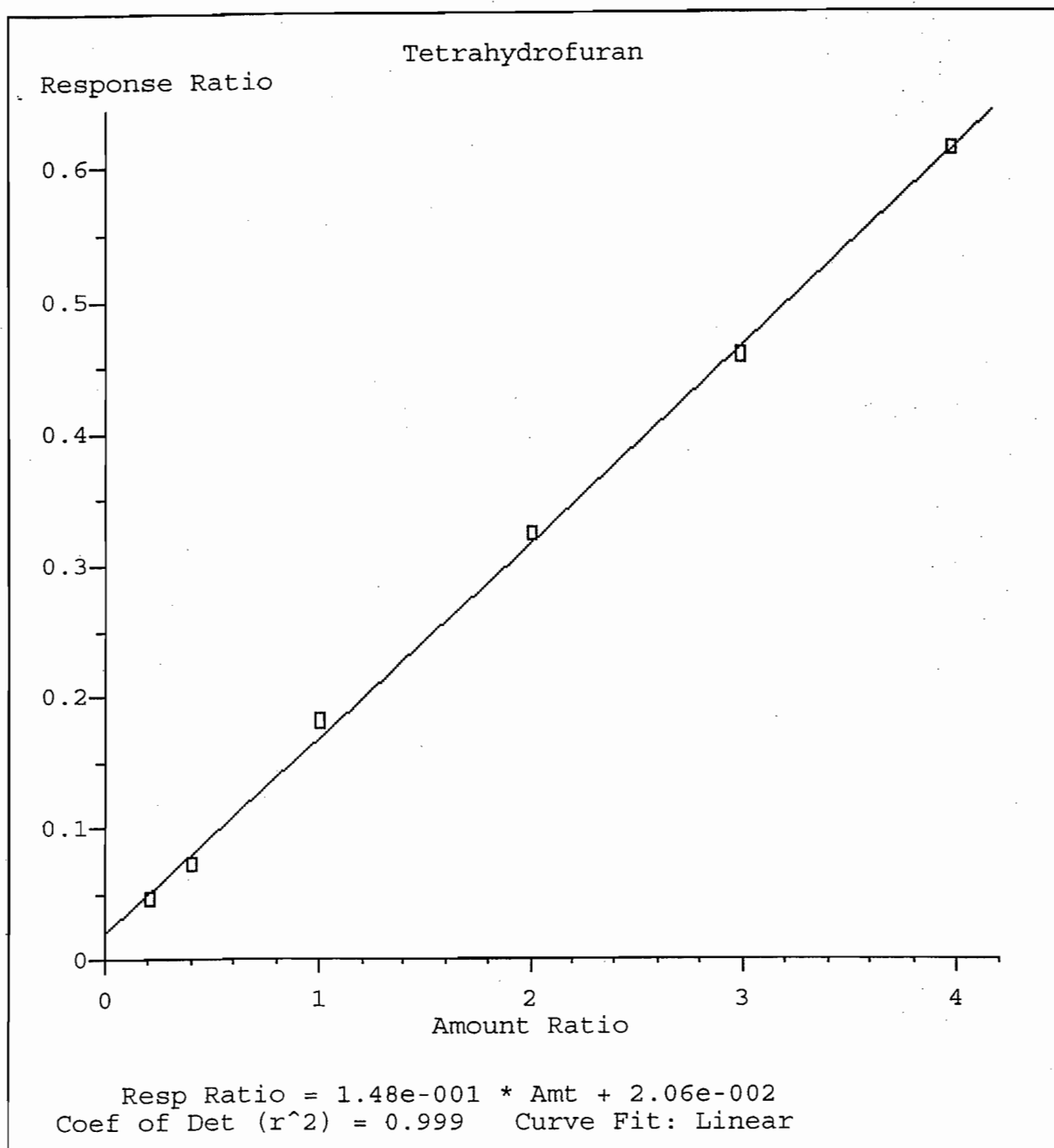
Instrument ID: 5971 - In
Column Name: MS
Calibration Fit: Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
2088	J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D	04/06/2005 11:53	04/06/2005 15:58	04/26/2005 16:45
2089	J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D	04/06/2005 12:28	04/06/2005 16:00	04/26/2005 16:45
2090	J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D	04/06/2005 13:03	04/06/2005 16:01	04/26/2005 16:45
2091	J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D	04/06/2005 13:38	04/06/2005 14:09	04/26/2005 16:45
2092	J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D	04/06/2005 14:14	04/06/2005 15:30	04/26/2005 16:45
2093	J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D	04/06/2005 14:49	04/06/2005 15:28	04/26/2005 16:45
2094	J:\ACQUDATA\MSVOA5\DATA\040605\B0840.D	04/06/2005 15:24	04/06/2005 15:55	04/26/2005 16:45

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
Isomomethane		0.600	0.055	0.9977	0.716
Acrolein		0.055	-0.045	0.9949	0.044
Iodomethane (Methyl Iodide)		0.995	-0.391	0.9973	0.645
Tetrahydrofuran		0.148	0.021	0.9988	0.177



Method Name: J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Calibration Table Last Updated: Wed Apr 06 16:36:00 2005



Method Name: J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Calibration Table Last Updated: Wed Apr 06 16:17:24 2005

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:39 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

ka 4/6/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.84	168	678139	50.00	ppb	0.02
36) 1,4-Difluorobenzene	11.19	114	1181325	50.00	ppb	0.04
60) d5-Chlorobenze	16.70	117	1172288	50.00	ppb	0.03
75) d4-1,4-Dichlorobenzene	21.40	152	497261	50.00	ppb	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
37) surr4,Dibrflmethane	9.78	113	463969	55.31	ppb	110.61%
42) surr1,1,2-Diclethane	10.39	65	478686	71.24	ppb	142.48%
58) surr3,Toluene-d8	13.92	98	1511430	49.09	ppb	98.18%
59) surr2,bfb	19.03	95	620052	44.48	ppb	88.97%

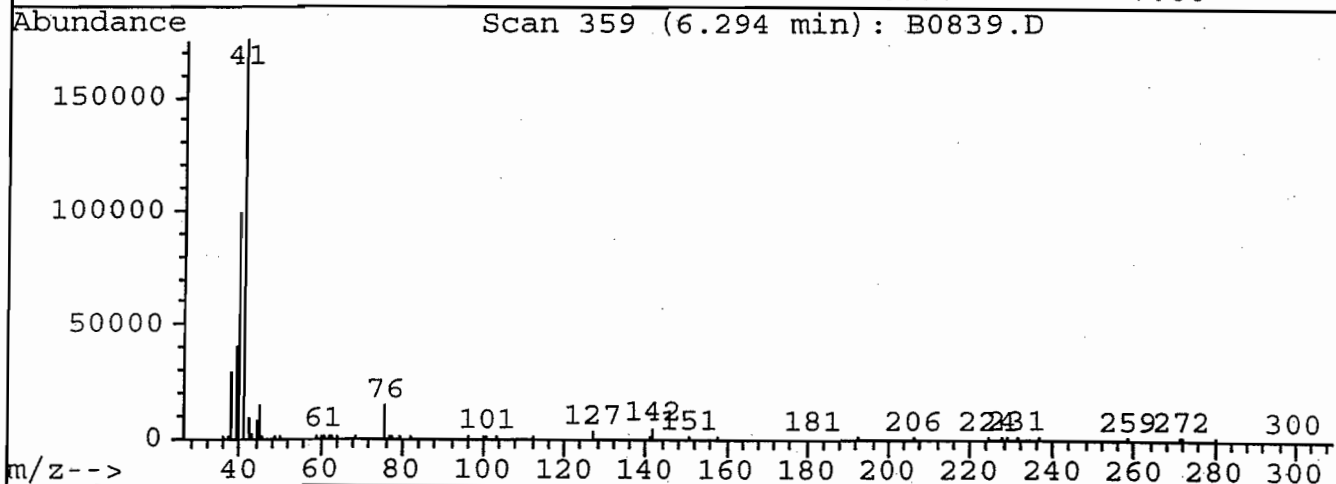
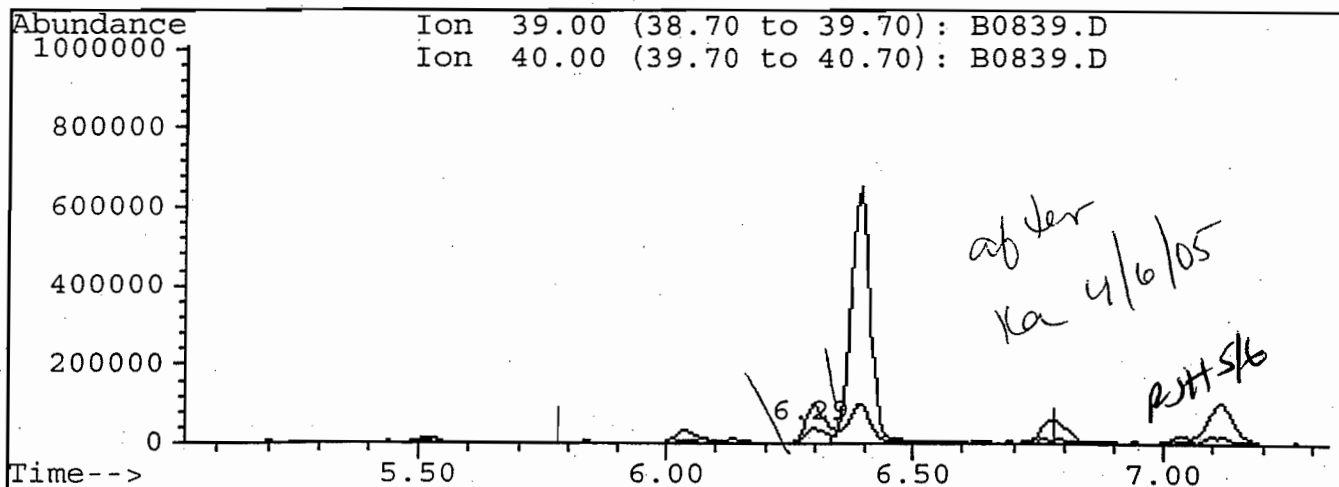
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.92	85	41059	5.02	ppb	97
3) Chloromethane	3.24	50	50524	4.75	ppb	93
4) Vinyl Chloride	3.45	62	35192	4.55	ppb	92
5) Bromomethane	4.07	94	56904	9.34	ppb	m ka 85
6) Chloroethane	4.26	64	23081	4.59	ppb	m ka 97
7) Trichlorofluoromethane	4.77	101	56200	5.28	ppb	97
8) Diethyl Ether	5.29	59	27341	5.24	ppb	88
9) Acrolein	5.53	56	8427	12.46	ppb	m ka 91
10) FREON 113	5.74	85	17265	5.41	ppb	# 50
11) 1,1-Diclethene	5.74	96	25707	4.37	ppb	98
12) Acetone	5.83	43	10687	5.10	ppb	m ka 94
14) Carbon Disulfide	6.14	76	137343	5.18	ppb	95
15) Methyl Acetate	6.17	43	4704	2.54	ppb	92
16) Acetonitrile	6.40	39	59172	517.02	ppb	# 1
17) Allyl Chloride	6.40	76	17013	4.33	ppb	74
18) Methylene Chloride	6.61	84	44967	5.43	ppb	97
19) TBA	6.80	59	78984	98.31	ppb	98
20) Methyl-t-Butyl Ether	7.11	73	108018	5.99	ppb	# 91
21) Acrylonitrile	7.05	53	52674	21.29	ppb	98
22) trans-1,2-Dichloroethene	7.14	96	37629	4.79	ppb	90
23) 1,1-Diclethane	7.89	63	83569	5.26	ppb	# 91
24) Vinyl Acetate	8.00	42	6276	7.78	ppb	m ka 86
25) 2-Chloro-1,3-butadiene	8.06	53	55933	5.38	ppb	99
26) 2,2-Dichloropropane	8.93	77	73303	6.65	ppb	90
28) cis-1,2-Dichloroethene	8.94	96	49003	5.32	ppb	93
29) Propionitrile	9.05	54	25625	25.06	ppb	# 83
30) Methacrylonitrile	9.32	67	13956	5.21	ppb	86
31) Bromochloromethane	9.37	128	22059	4.96	ppb	# 72
32) Tetrahydrofuran	9.45	42	14535	5.85	ppb	# 71
33) Chloroform	9.49	83	97203	6.61	ppb	# 78
34) 1,1,1-Trichloroethane	9.86	97	67199	5.98	ppb	# 1
38) Carbontetrachloride	10.17	117	57353	6.22	ppb	# 71

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

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D
 Acq On : 6 Apr 105 2:49 pm
 Sample : 150 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 15:26 19105

Vial: 41
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 14:11:59 2005
 Response via : Multiple Level Calibration



TIC: B0839.D

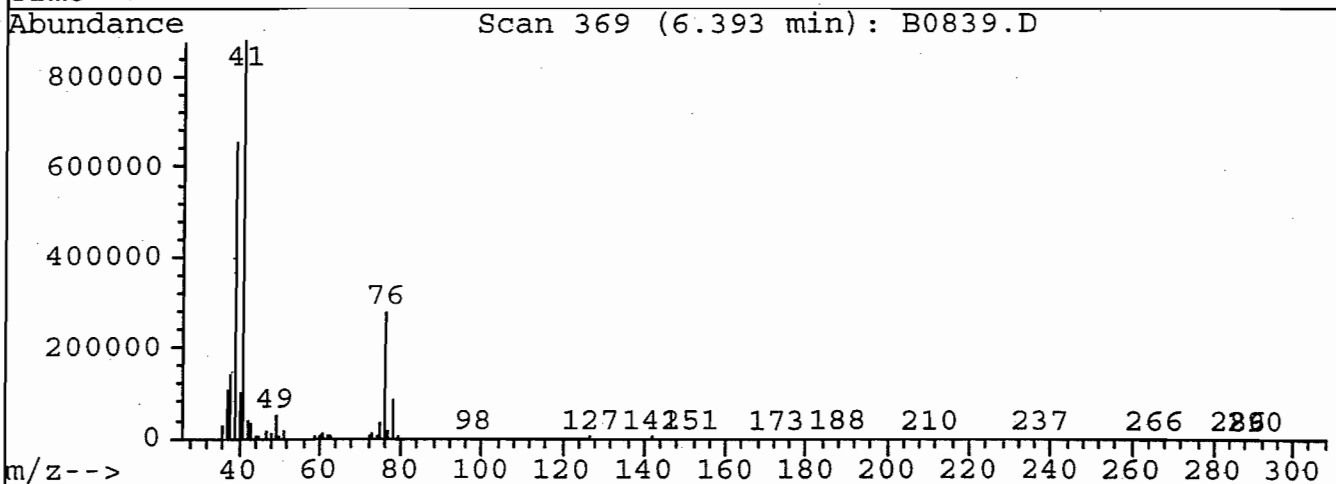
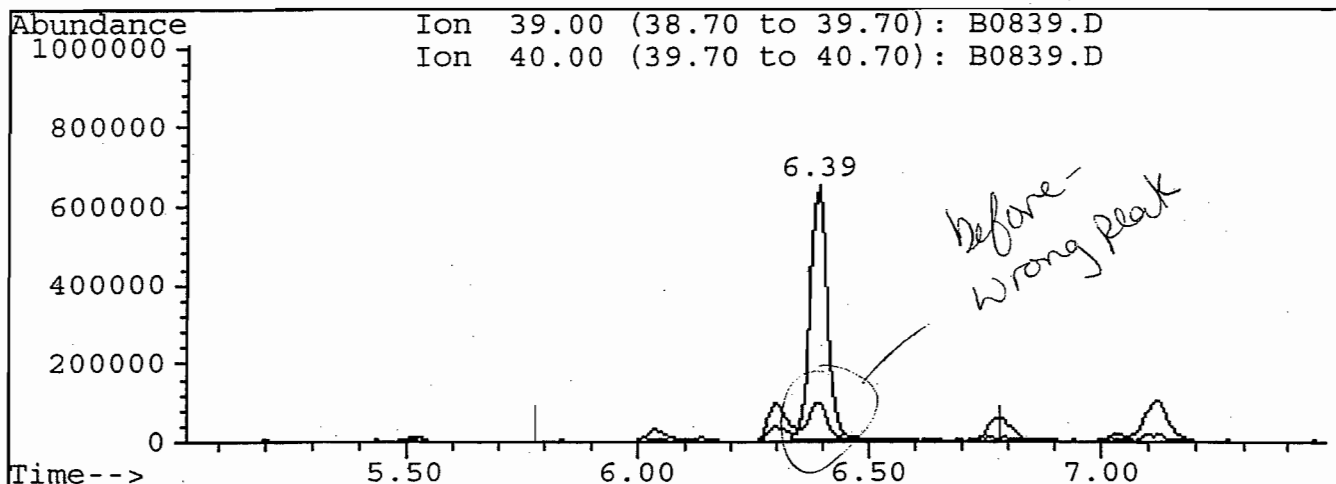
(16) Acetonitrile
 6.29min 916.04ppb m
 response 117201

Ion	Exp%	Act%
39.00	100	100
40.00	285.70	244.98
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D
 Acq On : 6 Apr 105 2:49 pm
 Sample : 150 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 15:17 19105

Vial: 41
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 14:11:59 2005
 Response via : Multiple Level Calibration



TIC: B0839.D

(16) Acetonitrile
 6.39min 13210.49ppb
 response 1690189

Ion	Exp%	Act%
39.00	100	100
40.00	285.70	14.80#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D
Acq On : 6 Apr 105 2:49 pm
Sample : 150 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 15:28 19105

Vial: 41
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 14:46:50 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) 1,3-Dclbenz	21.29	146	3148251	190.49	ppb	98
89) 1,4-Dclbenz	21.45	146	3049601	184.14	ppb	98
90) n-Butylbenzene	22.15	91	6554872	219.28	ppb	98
91) 1,2-Dclbenz	22.24	146	2846444	181.05	ppb	95
92) 1,2-Dibromo-3-chloropropan	23.83	157	277042	180.97	ppb #	76
94) 1,2,4-Tcbenzene	25.57	180	1545024	183.50	ppb	91
95) Hexachlorobt	25.93	225	736471	144.25	ppb	91
96) Naphthalen	26.13	128	3306564	208.26	ppb mKa	96
97) 1,2,3-Tclbenzene	26.67	180	1399742	184.59	ppb	99

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D
 Acq On : 6 Apr 105 2:49 pm
 Sample : 150 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 15:28 19105

Vial: 41
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 14:46:50 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) 1,1,1-Trichloroethane	9.86	97	2500718	198.95	ppb	# 68
38) Carbontetrachloride	10.17	117	2065485	204.81	ppb	98
39) 1,1-Dichloropropene	10.15	75	2325542	196.43	ppb	98
40) Iso-Butyl Alcohol	10.28	43	1354433	2827.55	ppb	98
41) Benzene	10.53	78	5915475	155.00	ppb	97
43) 1,2-Dichloroethane	10.54	62	2139001	209.02	ppb	# 94
44) Trichloroethene	11.69	95	1851734	187.76	ppb	93
46) 1,2-Dicloropropane	12.08	63	1731766	158.00	ppb	96
47) Methyl Methacrylate	12.25	69	907266	163.31	ppb	95
48) Dibromomethane	12.30	93	1173201	203.69	ppb	95
49) Bromodichloromethane	12.58	83	2439229	207.56	ppb	97
50) 2-Nitropropane	12.97	41	778944	424.55	ppb	# 88
52) cis-1,3-Dichloropropene	13.41	75	2890300	183.02	ppb	99
53) 4-Methyl-2-Pentanone	13.65	43	1634448	138.50	ppb	90
54) Toluene	14.05	91	6458128	155.75	ppb	99
55) trans-1,3-Dichloropropene	14.43	75	2629917	200.01	ppb	94
56) Ethyl Methacrylate	14.57	69	1985880	157.52	ppb	95
57) 1,1,2-Trichloroethane	14.78	83	1224320	166.00	ppb	99
61) Tetrachloroethene	15.11	166	1675053	184.70	ppb	95
62) 2-Hexanone	15.23	43	1210679	168.76	ppb	100
63) 1,3-Dichloropropene	15.12	76	2380965	191.05	ppb	95
64) Dibromochloromethane	15.57	129	1800885	224.20	ppb	95
65) 1,2-Dibromoethane	15.81	107	1598465	204.44	ppb	93
66) Chlorobenzene	16.77	112	4403336	168.84	ppb	96
67) 1,1,1,2-Tetrachloroethane	16.90	131	1645460	202.46	ppb	94
68) Ethylbenzene	16.95	91	7790690	179.47	ppb	100
69) (m+p)Xylene	17.19	106	5766511	346.41	ppb	98
70) o-Xylene	17.98	106	2914102	174.92	ppb	96
71) Styrene	18.00	104	4859148	182.93	ppb	92
72) Bromoform	18.40	173	973573	189.14	ppb	99
73) Isopropylbenzene	18.71	105	7512985	174.56	ppb	99
74) Cyclohexanone	18.90	55	3604942	2340.46	ppb	96
76) 1,1,2,2-Tetrachloroethane	19.28	83	1936838	209.60	ppb	98
77) 1,2,3-Trichloropropane	19.39	110	457979	217.00	ppb	97
78) Trans-1,4-Dichloro-2-Buten	19.39	53	438784	251.01	ppb	91
79) n-Propylbenzene	19.54	91	9632281	215.64	ppb	100
80) Bromobenzene	19.36	156	1750907	201.55	ppb	98
81) 1,3,5-Trimethylbenzene	19.89	105	6120188	221.80	ppb	98
82) 2-Chlorotoluene	19.75	91	5567083	217.44	ppb	98
83) 4-Chlorotoluene	19.96	91	5711426	216.76	ppb	98
84) tert-Butylbenzene	20.57	119	5065164	199.76	ppb	90
85) 1,2,4-Trimethylbenzene	20.66	105	5877607	217.51	ppb	93
86) sec-Butylbenzene	21.02	105	8036352	199.20	ppb	99
87) p-Isopropyltoluene	21.31	119	6403716	204.17	ppb	95

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

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D
 Acq On : 6 Apr 105 2:49 pm
 Sample : 150 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 15:28 19105

Vial: 41
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 14:46:50 2005
 Response via : Multiple Level Calibration.

Ka 4/6/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.85	168	758092	50.00	ppb	0.03
36) 1,4-Difluorobenzene	11.19	114	1292348	50.00	ppb	0.04
60) d5-Chlorobenze	16.71	117	1256621	50.00	ppb	0.03
75) d4-1,4-Dichlorobenzene	21.40	152	539629	50.00	ppb	0.04

System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.79	113	1464812	159.61	ppb	319.22%
42) surr1,1,2-Diclethane	10.40	65	1339151	182.18	ppb	364.36%
58) surr3,Toluene-d8	13.93	98	4426786	131.43	ppb	262.86%
59) surr2,bfb	19.04	95	1801010	118.11	ppb	236.22%

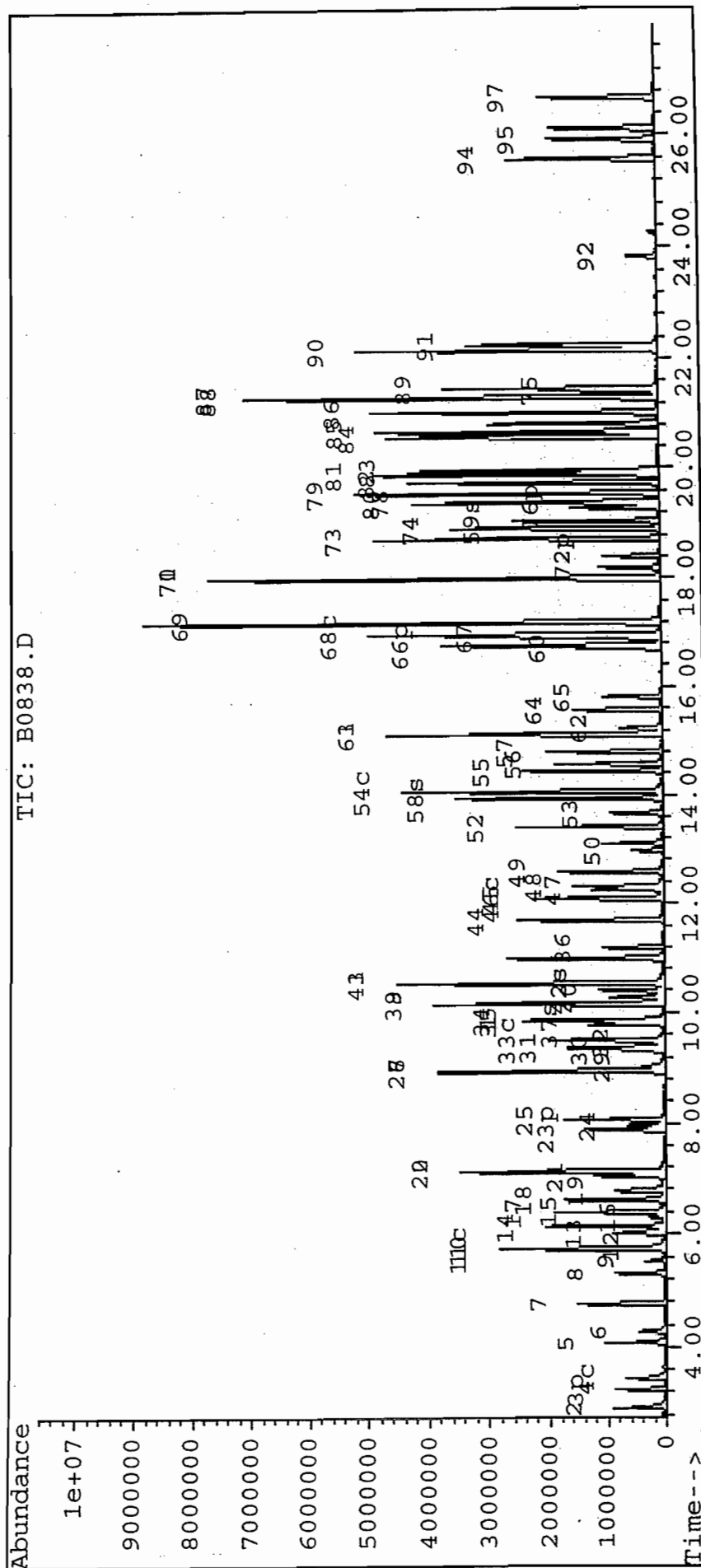
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.92	85	1669722	182.71	ppb	100
3) Chloromethane	3.24	50	1633018	137.25	ppb	99
4) Vinyl Chloride	3.45	62	1245910	144.12	ppb	96
5) Bromomethane	4.08	94	1351085	198.27	ppb	92
6) Chloroethane	4.27	64	818698	145.50	ppb	95
7) Trichlorofluoromethane	4.76	101	2467452	207.20	ppb	96
8) Diethyl Ether	5.29	59	916198	156.99	ppb	89
9) Acrolein	5.52	56	557726	737.58	ppb	100
10) FREON 113	5.74	85	624944	175.10	ppb	96
11) 1,1-Diclethene	5.73	96	1195314	181.66	ppb	97
12) Acetone	5.80	43	347270	148.20	ppb	95
13) Iodomethane	6.01	142	1913609	164.54	ppb	97
14) Carbon Disulfide	6.14	76	4916225	165.88	ppb	98
15) Methyl Acetate	6.41	43	294254	142.04	ppb	100
16) Acetonitrile	6.29	39	117201	916.04	ppb	m Ka 1
17) Allyl Chloride	6.39	76	652808	148.75	ppb	84
18) Methylene Chloride	6.61	84	1487936	160.75	ppb	91
19) TBA	6.78	59	2702685	3009.07	ppb	94
20) Methyl-t-Butyl Ether	7.12	73	3452638	171.31	ppb	92
21) Acrylonitrile	7.03	53	1959517	708.61	ppb	96
22) trans-1,2-Dichloroethene	7.13	96	1506812	171.62	ppb	95
23) 1,1-Diclethane	7.88	63	2780587	156.43	ppb	96
24) Vinyl Acetate	7.96	42	171600	190.27	ppb	# 82
25) 2-Chloro-1,3-butadiene	8.06	53	2116304	182.12	ppb	97
26) 2,2-Dichloropropane	8.93	77	2495252	202.60	ppb	95
27) 2-Butanone	8.93	43	621861	131.83	ppb	# 91
28) cis-1,2-Dichloroethene	8.93	96	1719990	167.10	ppb	95
29) Propionitrile	9.02	54	729054	637.78	ppb	96
30) Methacrylonitrile	9.31	67	448708	149.74	ppb	81
31) Bromochloromethane	9.36	128	863259	173.56	ppb	# 77
32) Tetrahydrofuran	9.45	42	347988	125.22	ppb	# 89
33) Chloroform	9.50	83	2991632	182.10	ppb	100

(#) = qualifier out of range (m) = manual integration
 B0839.D SOIL0406.M Wed Apr 06 15:28:26 2005

113

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D Vial: 40
 Acq On : 6 Apr 105 2:14 pm Operator: K.ARNOLD
 Sample : 100 PPB Inst : 5971 - In
 Misc : 8260B SOIL CURVE Multiplr: 1.00
 Quant Time: Apr 6 14:42 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

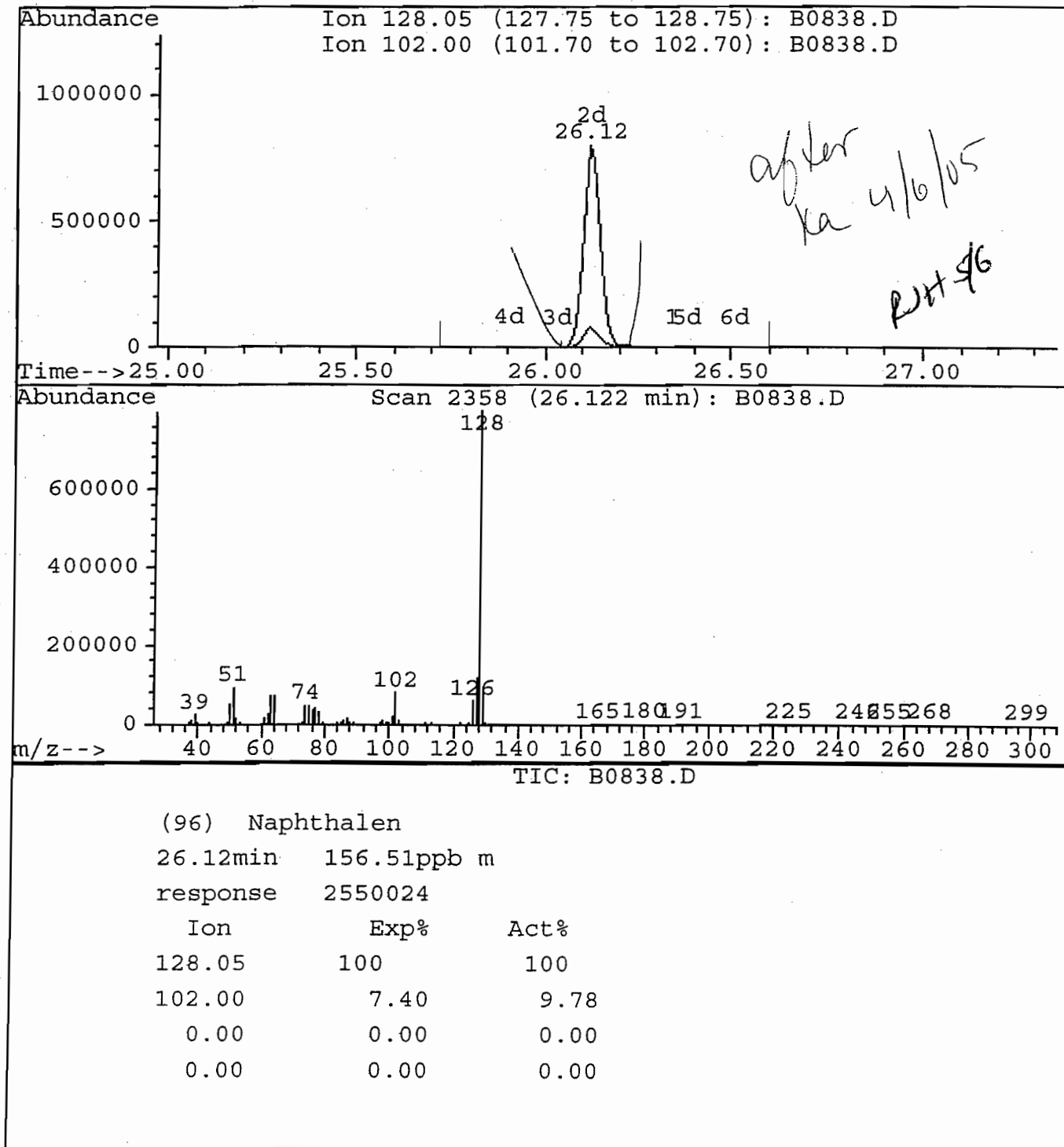


112

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D
 Acq On : 6 Apr 105 2:14 pm
 Sample : 100 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 14:46 19105

Vial: 40
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

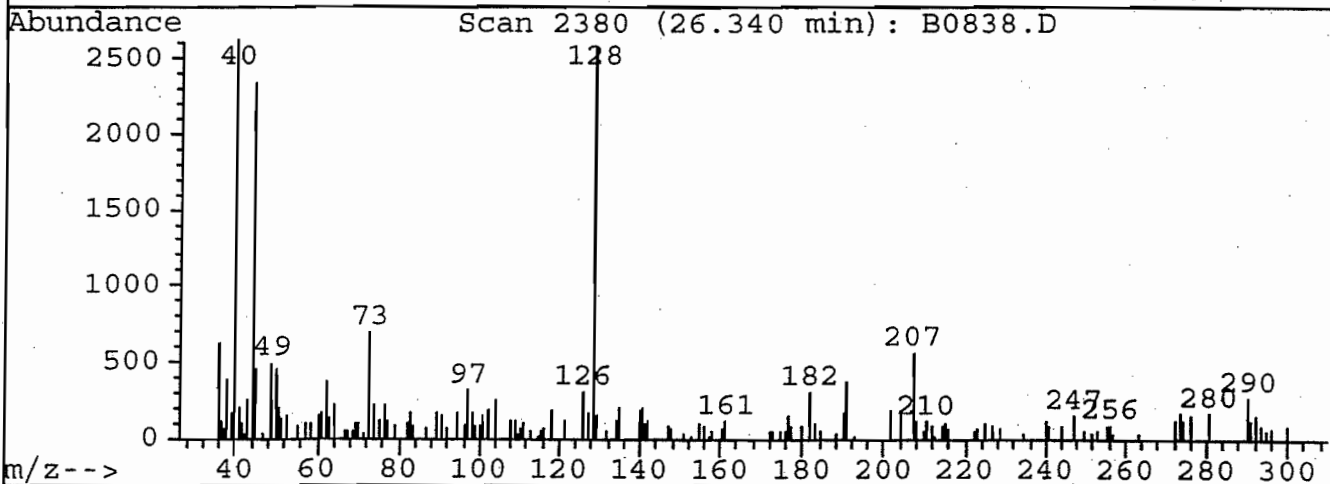
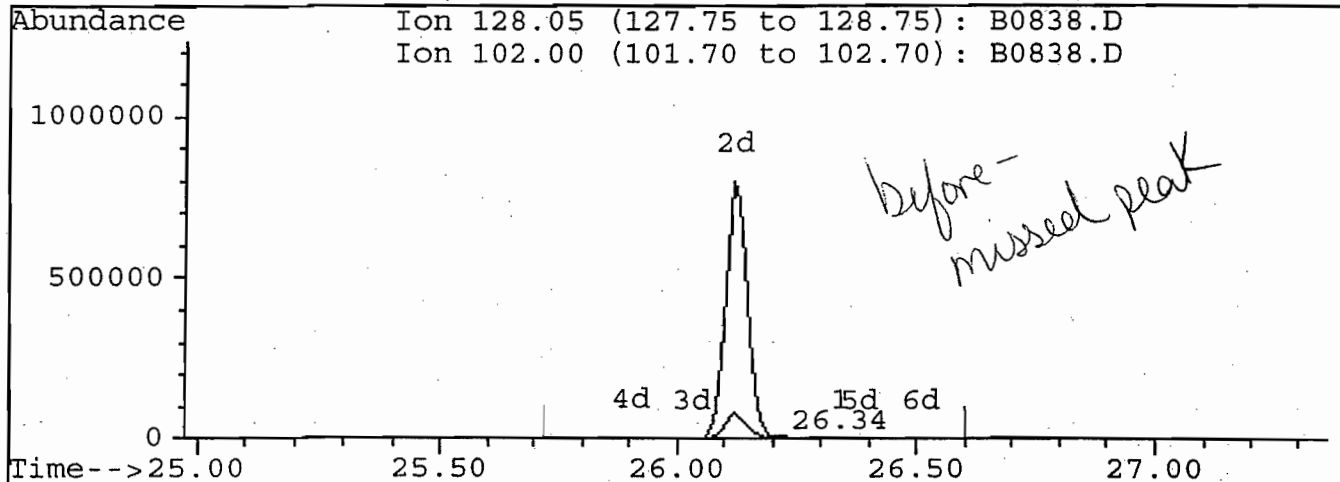
Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:50:22 2005
 Response via : Multiple Level Calibration



Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D
Acq On : 6 Apr 105 2:14 pm
Sample : 100 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 14:42 19105

Vial: 40
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 13:50:22 2005
Response via : Multiple Level Calibration



TIC: B0838.D

(96) Naphthalen

26.34min 0.07ppb

response 1214

Ion	Exp%	Act%
128.05	100	100
102.00	7.40	7.22
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D
Acq On : 6 Apr 105 2:14 pm
Sample : 100 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 14:42 19105

Vial: 40
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) sec-Butylbenzene	21.02	105	6063193	146.45	ppb	99
87) p-Isopropyltoluene	21.31	119	4817420	149.67	ppb #	95
88) 1,3-Dclbenz	21.28	146	2361891	139.26	ppb	96
89) 1,4-Dclbenz	21.45	146	2334246	137.35	ppb	99
90) n-Butylbenzene	22.15	91	5072893	165.36	ppb	96
91) 1,2-Dclbenz	22.24	146	2133245	132.22	ppb	98
92) 1,2-Dibromo-3-chloropropan	23.83	157	203478	129.52	ppb #	57
94) 1,2,4-Tcbenzene	25.58	180	1266731	146.60	ppb	97
95) Hexachlorobt	25.92	225	567218	108.26	ppb	94
97) 1,2,3-Tclbenzene	26.68	180	1114677	143.24	ppb	97
96) Naphthalene	26.12		2550024	156.51	ppb m	La

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D
 Acq On : 6 Apr 105 2:14 pm
 Sample : 100 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 14:42 19105

Vial: 40
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) 1,1,1-Trichloroethane	9.85	97	1871604	154.09	ppb	# 73
35) Cyclohexane	9.83	56	14441	0.74	ppb	# 1 <i>Ya</i>
38) Carbontetrachloride	10.16	117	1556078	164.83	ppb	98
39) 1,1-Dichloropropene	10.15	75	1729870	156.09	ppb	96
40) Iso-Butyl Alcohol	10.27	43	994150	2217.07	ppb	96
41) Benzene	10.53	78	4440277	124.28	ppb	95
43) 1,2-Dichloroethane	10.54	62	1546823	161.47	ppb	# 94
44) Trichloroethene	11.69	95	1360488	147.36	ppb	95
45) Methyl Cyclohexane	12.09	83	11573	0.70	ppb	# 24 <i>Ya</i>
46) 1,2-Dicloropropane	12.09	63	1226936	119.58	ppb	100
47) Methyl Methacrylate	12.26	69	607696	116.85	ppb	96
48) Dibromomethane	12.31	93	840997	155.98	ppb	95
49) Bromodichloromethane	12.58	83	1760746	160.06	ppb	94
50) 2-Nitropropane	12.97	41	560321	326.24	ppb	93
52) cis-1,3-Dichloropropene	13.40	75	2092519	141.55	ppb	99
53) 4-Methyl-2-Pentanone	13.66	43	1252489	113.37	ppb	94
54) Toluene	14.05	91	4871442	125.50	ppb	98
55) trans-1,3-Dichloropropene	14.43	75	1893538	153.84	ppb	93
56) Ethyl Methacrylate	14.57	69	1427586	120.97	ppb	92
57) 1,1,2-Trichloroethane	14.79	83	907470	131.44	ppb	98
61) Tetrachloroethene	15.11	166	1208987	138.47	ppb	99
62) 2-Hexanone	15.23	43	874014	126.55	ppb	99
63) 1,3-Dichloropropene	15.11	76	1758740	146.59	ppb	94
64) Dibromochloromethane	15.57	129	1291875	167.06	ppb	96
65) 1,2-Dibromoethane	15.81	107	1130090	150.13	ppb	97
66) Chlorobenzene	16.77	112	3206606	127.72	ppb	94
67) 1,1,1,2-Tetrachloroethane	16.91	131	1151065	147.12	ppb	96
68) Ethylbenzene	16.96	91	5859894	140.22	ppb	100
69) (m+p)Xylene	17.18	106	4402714	274.73	ppb	97
70) o-Xylene	17.99	106	2104677	131.23	ppb	98
71) Styrene	18.01	104	3545950	138.67	ppb	91
72) Bromoform	18.39	173	692002	139.65	ppb	96
73) Isopropylbenzene	18.71	105	5650509	136.38	ppb	98
74) Cyclohexanone	18.91	55	2694688	1817.28	ppb	96
76) 1,1,2,2-Tetrachloroethane	19.28	83	1403955	148.05	ppb	99
77) 1,2,3-Trichloropropane	19.39	110	340802	157.35	ppb	99
78) Trans-1,4-Dichloro-2-Buten	19.39	53	312235	174.05	ppb	90
79) n-Propylbenzene	19.54	91	7171165	156.44	ppb	98
80) Bromobenzene	19.36	156	1312053	147.17	ppb	97
81) 1,3,5-Trimethylbenzene	19.89	105	4598687	162.40	ppb	94
82) 2-Chlorotoluene	19.75	91	4121513	156.86	ppb	98
83) 4-Chlorotoluene	19.96	91	4212136	155.78	ppb	97
84) tert-Butylbenzene	20.57	119	3805699	146.26	ppb	90
85) 1,2,4-Trimethylbenzene	20.66	105	4412747	159.13	ppb	94

(#) = qualifier out of range (m) = manual integration
 B0838.D SOIL0406.M Wed Apr 06 14:42:34 2005

108

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0838.D
 Acq On : 6 Apr 105 2:14 pm
 Sample : 100 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 14:42 19105

Vial: 40
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

ka 4/6/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.84	168	732535	50.00	ppb	0.02
36) 1,4-Difluorobenzene	11.19	114	1209776	50.00	ppb	0.04
60) d5-Chlorobenze	16.71	117	1209747	50.00	ppb	0.03
75) d4-1,4-Dichlorobenzene	21.40	152	553779	50.00	ppb	0.04

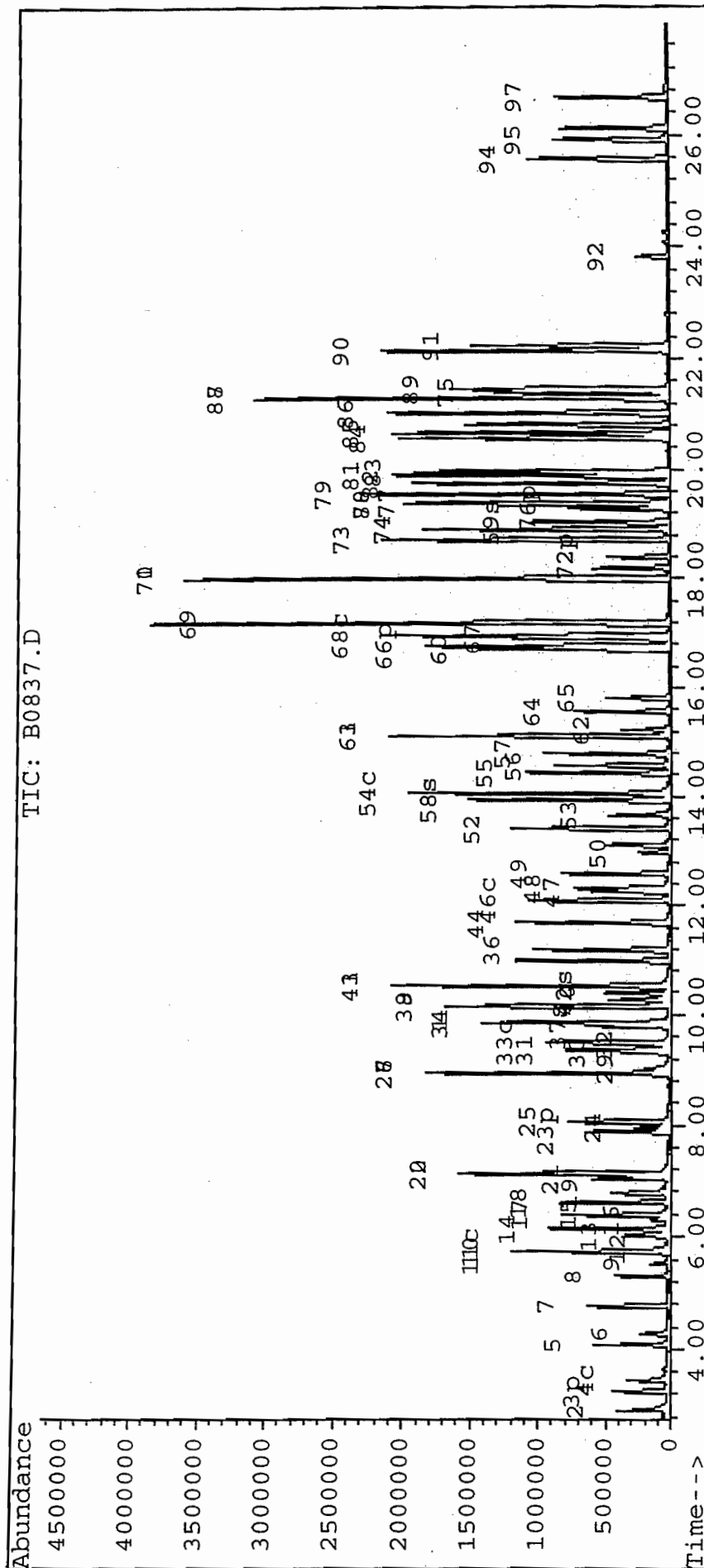
System Monitoring Compounds						%Recovery
37) surr4, Dibrflmethane	9.78	113	1179888	137.34	ppb	274.68%
42) surr1, 1,2-Diclethane	10.40	65	1100798	159.97	ppb	319.95%
58) surr3, Toluene-d8	13.92	98	3638503	115.40	ppb	230.80%
59) surr2, bfb	19.04	95	1497086	104.88	ppb	209.76%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.92	85	1301147	147.35	ppb	99
3) Chloromethane	3.24	50	1250556	108.77	ppb	100
4) Vinyl Chloride	3.44	62	925489	110.79	ppb	99
5) Bromomethane	4.07	94	969068	147.17	ppb	92
6) Chloroethane	4.27	64	612270	112.61	ppb	97
7) Trichlorofluoromethane	4.76	101	1853498	161.07	ppb	96
8) Diethyl Ether	5.29	59	667890	118.44	ppb	91
9) Acrolein	5.51	56	381740	522.45	ppb	95
10) FREON 113	5.74	85	470254	136.36	ppb	97
11) 1,1-Diclethene	5.73	96	906969	142.65	ppb	98
12) Acetone	5.80	43	260471	115.04	ppb	93
13) Iodomethane	6.01	142	1238375	109.13	ppb	98
14) Carbon Disulfide	6.14	76	3714189	129.70	ppb	97
15) Methyl Acetate	6.42	43	199889	99.86	ppb	100
16) Acetonitrile	6.30	39	76296	617.13	ppb	83
17) Allyl Chloride	6.39	76	472321	111.38	ppb	89
18) Methylene Chloride	6.61	84	1097401	122.69	ppb	91
19) TBA	6.77	59	2013953	2320.49	ppb	100
20) Methyl-t-Butyl Ether	7.11	73	2516855	129.24	ppb	# 91
21) Acrylonitrile	7.03	53	1392040	520.96	ppb	96
22) trans-1,2-Dichloroethene	7.13	96	1114569	131.37	ppb	94
23) 1,1-Diclethane	7.89	63	2063760	120.16	ppb	98
24) Vinyl Acetate	7.96	42	120519	138.29	ppb	95
25) 2-Chloro-1,3-butadiene	8.06	53	1579534	140.67	ppb	99
26) 2,2-Dichloropropane	8.94	77	1864528	156.67	ppb	94
27) 2-Butanone	8.93	43	461401	101.23	ppb	# 82
28) cis-1,2-Dichloroethene	8.93	96	1285854	129.28	ppb	95
29) Propionitrile	9.02	54	554164	501.70	ppb	98
30) Methacrylonitrile	9.32	67	328113	113.32	ppb	98
31) Bromochloromethane	9.37	128	598509	124.53	ppb	92
32) Tetrahydrofuran	9.45	42	237167	88.32	ppb	94
33) Chloroform	9.50	83	2175026	137.01	ppb	99

(#) = qualifier out of range (m) = manual integration
 B0838.D SOIL0406.M Wed Apr 06 14:42:33 2005

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D Vial: 39
 Acq On : 6 Apr 105 1:38 pm Operator: K.ARNOLD
 Sample : 50 PPB Inst : 5971 - In
 Misc : 8260B SOIL CURVE Multiplr: 1.00
 Quant Time: Apr 6 14:07 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

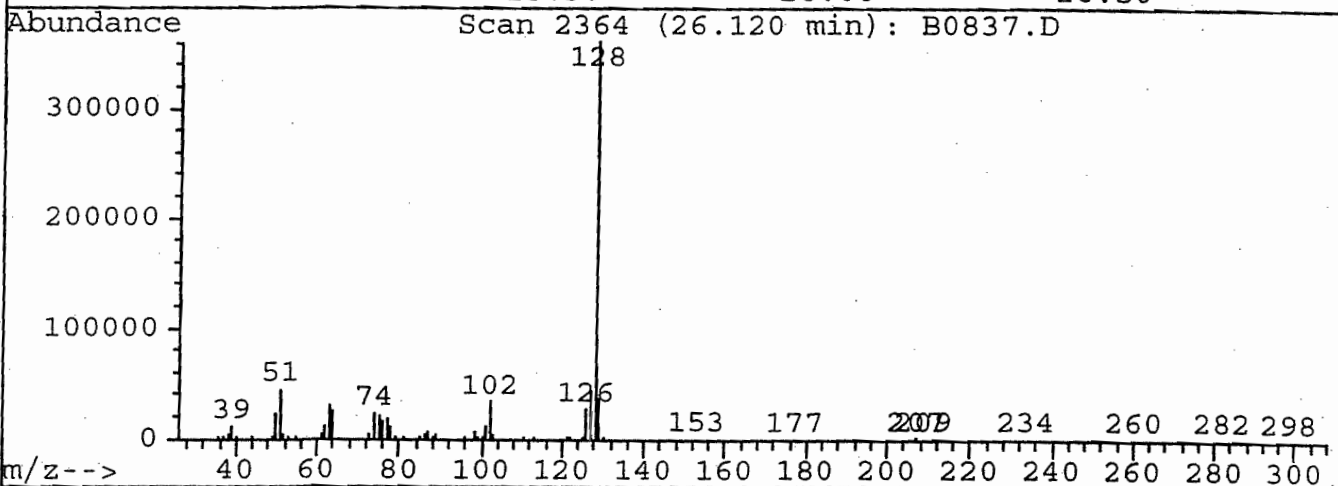
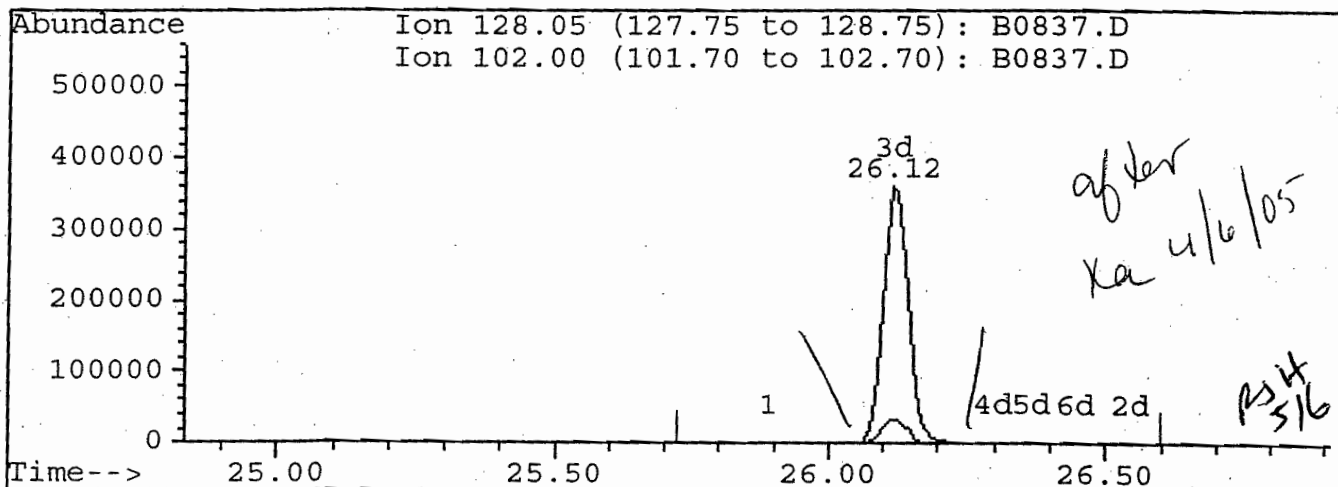


106

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D
 Acq On : 6 Apr 105 1:38 pm
 Sample : 50 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 14:09 19105

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:47:10 2005
 Response via : Multiple Level Calibration



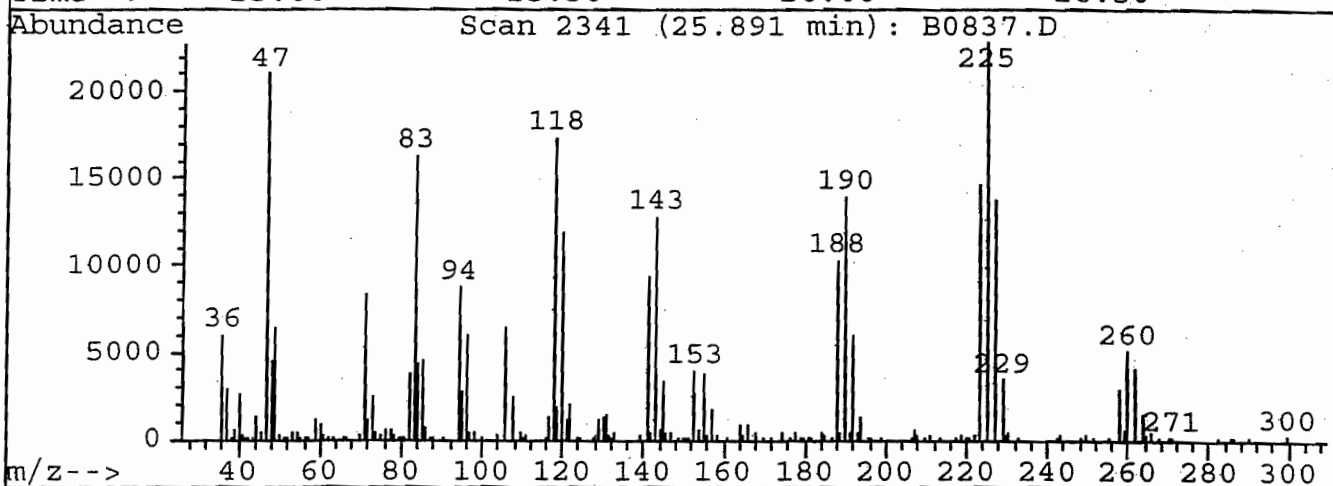
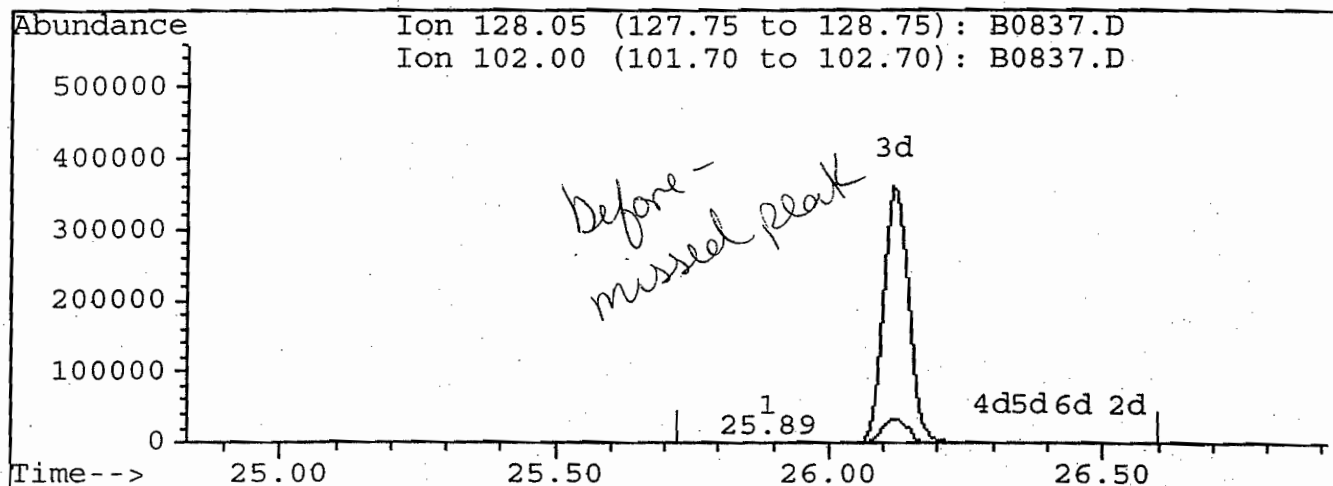
TIC: B0837.D

(96) Naphthalen		
26.12min	72.93ppb m	
response	1129897	
Ion	Exp%	Act%
128.05	100	100
102.00	7.40	9.16
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D
 Acq On : 6 Apr 105 1:38 pm
 Sample : 50 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 14:07 19105

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:47:10 2005
 Response via : Multiple Level Calibration



TIC: B0837.D

(96) Naphthalen
 25.89min 0.02ppb
 response 284

Ion	Exp%	Act%
128.05	100	100
102.00	7.40	7.06
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D
Acq On : 6 Apr 105 1:38 pm
Sample : 50 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 14:07 19105

Vial: 39
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) 1,3-Dclbenz	21.28	146	1037852	64.35	ppb	96
89) 1,4-Dclbenz	21.46	146	1018522	63.02	ppb	98
90) n-Butylbenzene	22.15	91	2147603	73.62	ppb	96
91) 1,2-Dclbenz	22.23	146	943239	61.48	ppb	98
92) 1,2-Dibromo-3-chloropropan	23.83	157	93118	62.33	ppb #	75
94) 1,2,4-Tcbenzene	25.57	180	507056	61.71	ppb	92
95) Hexachlorobt	25.92	225	252870	50.75	ppb	96
97) 1,2,3-Tclbenzene	26.67	180	458957	62.02	ppb	97
96) Napthalene	26.12		1129897	72.93	ppb m	(Ka)

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D
 Acq On : 6 Apr 105 1:38 pm
 Sample : 50 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 14:07 19105

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) 1,1,1-Trichloroethane	9.86	97	773355	66.31	ppb	88
38) Carbontetrachloride	10.16	117	668275	70.64	ppb	95
39) 1,1-Dichloropropene	10.15	75	749205	67.46	ppb	96
40) Iso-Butyl Alcohol	10.27	43	492197	1095.37	ppb	98
41) Benzene	10.53	78	1993194	55.67	ppb	97
43) 1,2-Dichloroethane	10.54	62	767993	80.00	ppb	# 90
44) Trichloroethene	11.68	95	599182	64.77	ppb	96
46) 1,2-Dicloropropane	12.09	63	586433	57.04	ppb	99
47) Methyl Methacrylate	12.26	69	302649	58.08	ppb	94
48) Dibromomethane	12.31	93	382299	70.76	ppb	96
49) Bromodichloromethane	12.58	83	816946	74.11	ppb	95
50) 2-Nitropropane	12.97	41	276204	160.48	ppb	98
52) cis-1,3-Dichloropropene	13.40	75	985710	66.54	ppb	99
53) 4-Methyl-2-Pentanone	13.66	43	629200	56.84	ppb	95
54) Toluene	14.06	91	2167255	55.72	ppb	97
55) trans-1,3-Dichloropropene	14.43	75	872188	70.71	ppb	92
56) Ethyl Methacrylate	14.57	69	672723	56.89	ppb	91
57) 1,1,2-Trichloroethane	14.79	83	430683	62.25	ppb	95
61) Tetrachloroethene	15.11	166	527123	58.66	ppb	92
62) 2-Hexanone	15.23	43	449531	63.24	ppb	100
63) 1,3-Dichloropropene	15.12	76	849381	68.78	ppb	94
64) Dibromochloromethane	15.56	129	585465	73.56	ppb	100
65) 1,2-Dibromoethane	15.81	107	527631	68.10	ppb	100
66) Chlorobenzene	16.76	112	1472459	56.98	ppb	91
67) 1,1,1,2-Tetrachloroethane	16.90	131	530718	65.90	ppb	93
68) Ethylbenzene	16.96	91	2550414	59.30	ppb	100
69) (m+p) Xylene	17.18	106	1913660	116.02	ppb	97
70) o-Xylene	17.98	106	941444	57.03	ppb	89
71) Styrene	18.00	104	1622464	61.65	ppb	# 86
72) Bromoform	18.40	173	328008	64.31	ppb	99
73) Isopropylbenzene	18.71	105	2415324	56.64	ppb	97
74) Cyclohexanone	18.90	55	1371426	898.61	ppb	96
76) 1,1,2,2-Tetrachloroethane	19.28	83	688789	76.38	ppb	99
77) 1,2,3-Trichloropropene	19.40	110	165855	80.53	ppb	92
78) Trans-1,4-Dichloro-2-Buten	19.39	53	157519	92.34	ppb	97
79) n-Propylbenzene	19.54	91	3107648	71.29	ppb	97
80) Bromobenzene	19.37	156	584190	68.91	ppb	96
81) 1,3,5-Trimethylbenzene	19.89	105	1958191	72.72	ppb	94
82) 2-Chlorotoluene	19.74	91	1827632	73.15	ppb	99
83) 4-Chlorotoluene	19.96	91	1902548	73.99	ppb	95
84) tert-Butylbenzene	20.56	119	1629174	65.84	ppb	86
85) 1,2,4-Trimethylbenzene	20.66	105	1948966	73.91	ppb	93
86) sec-Butylbenzene	21.02	105	2590352	65.79	ppb	100
87) p-Isopropyltoluene	21.30	119	2052323	67.05	ppb	95

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

B0837.D SOIL0406.M Wed Apr 06 14:07:16 2005

102

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0837.D
 Acq On : 6 Apr 105 1:38 pm
 Sample : 50 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 14:07 19105

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

ka 4/6/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.85	168	703405	50.00	ppb	0.02
36) 1,4-Difluorobenzene	11.19	114	1212308	50.00	ppb	0.04
60) d5-Chlorobenze	16.70	117	1245118	50.00	ppb	0.03
75) d4-1,4-Dichlorobenzene	21.41	152	526603	50.00	ppb	0.04

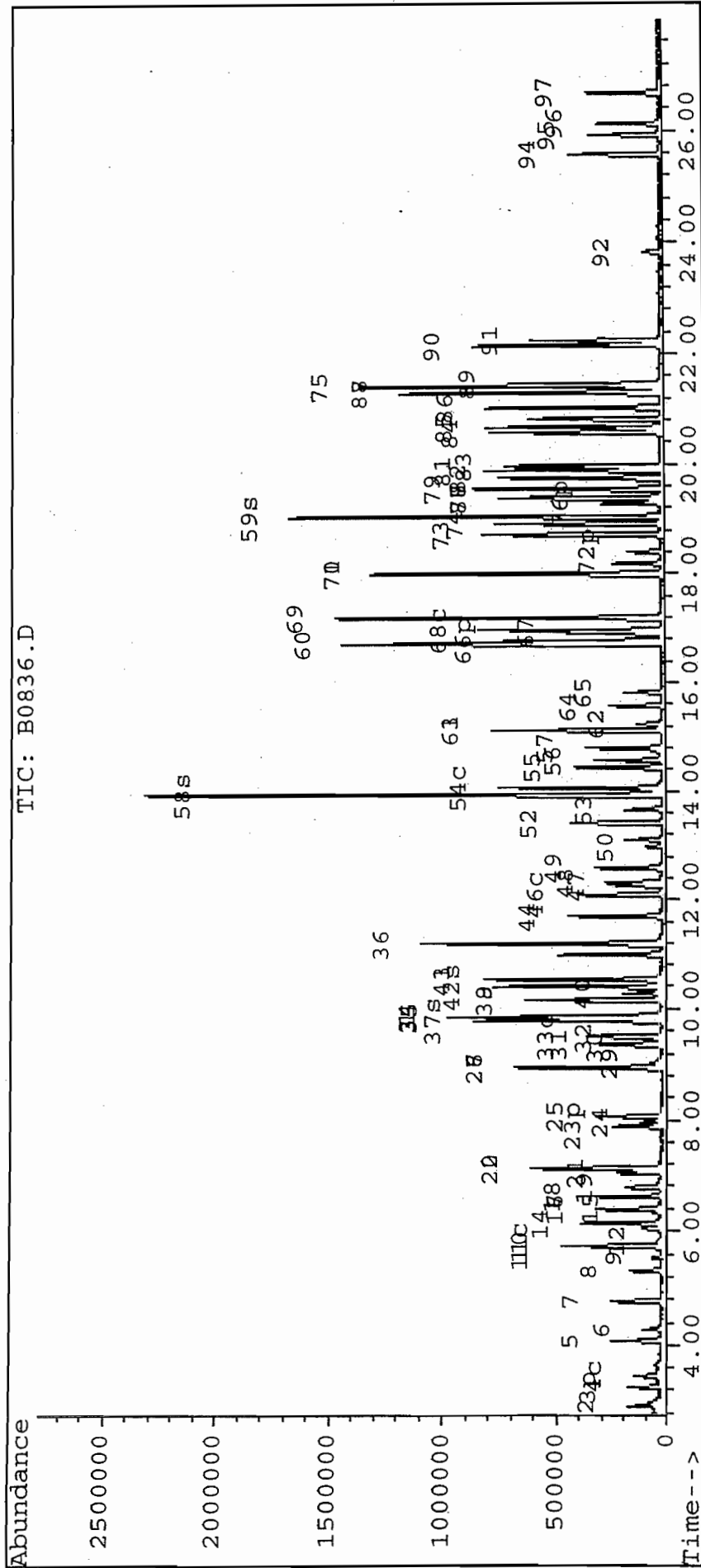
System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.79	113	486551	56.52	ppb	113.03%
42) surr1,1,2-Diclethane	10.39	65	464402	67.35	ppb	134.70%
58) surr3,Toluene-d8	13.93	98	1515700	47.97	ppb	95.94%
59) surr2,bfb	19.03	95	647952	45.30	ppb	90.60%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.91	85	555165	65.47	ppb	98
3) Chloromethane	3.24	50	555029	50.28	ppb	97
4) Vinyl Chloride	3.44	62	406342	50.66	ppb	97
5) Bromomethane	4.07	94	472912	74.79	ppb	93
6) Chloroethane	4.27	64	268828	51.49	ppb	90
7) Trichlorofluoromethane	4.76	101	777098	70.33	ppb	96
8) Diethyl Ether	5.29	59	320670	59.22	ppb	89
9) Acrolein	5.52	56	142266	202.77	ppb	93
10) FREON 113	5.74	85	196302	59.28	ppb	97
11) 1,1-Diclethene	5.73	96	390788	64.01	ppb	93
12) Acetone	5.80	43	127346	58.57	ppb	# 90
13) Iodomethane	6.01	142	364333	31.20	ppb	90
14) Carbon Disulfide	6.14	76	1605309	58.38	ppb	97
15) Methyl Acetate	6.42	43	94043	48.93	ppb	94
16) Acetonitrile	6.30	39	33764	284.42	ppb	67
17) Allyl Chloride	6.39	76	216060	53.06	ppb	91
18) Methylene Chloride	6.61	84	502370	58.49	ppb	95
19) TBA	6.77	59	1044530	1253.36	ppb	100
20) Methyl-t-Butyl Ether	7.11	73	1222866	65.39	ppb	95
21) Acrylonitrile	7.03	53	703840	274.31	ppb	97
22) trans-1,2-Dichloroethene	7.12	96	480655	59.00	ppb	87
23) 1,1-Diclethane	7.88	63	915926	55.54	ppb	94
24) Vinyl Acetate	7.96	42	53556	64.00	ppb	100
25) 2-Chloro-1,3-butadiene	8.06	53	709769	65.83	ppb	94
26) 2,2-Dichloropropane	8.93	77	802490	70.22	ppb	92
27) 2-Butanone	8.93	43	207080	47.31	ppb	# 77
28) cis-1,2-Dichloroethene	8.93	96	577546	60.47	ppb	97
29) Propionitrile	9.02	54	276809	260.98	ppb	94
30) Methacrylonitrile	9.31	67	154371	55.52	ppb	81
31) Bromochloromethane	9.37	128	285993	61.97	ppb	85
32) Tetrahydrofuran	9.44	42	127314	49.38	ppb	# 82
33) Chloroform	9.50	83	1029474	67.53	ppb	94

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

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D Vial: 38
 Acq On : 6 Apr 105 1:03 pm Operator: K.ARNOLD
 Sample : 20 PPB Inst : 5971 - In
 Misc : 8260B SOIL CURVE Multiplr: 1.00
 Quant Time: Apr 6 13:48 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260vov
 Last Update : Wed Apr 06 13:47:10 2005
 Response via : Multiple Level Calibration



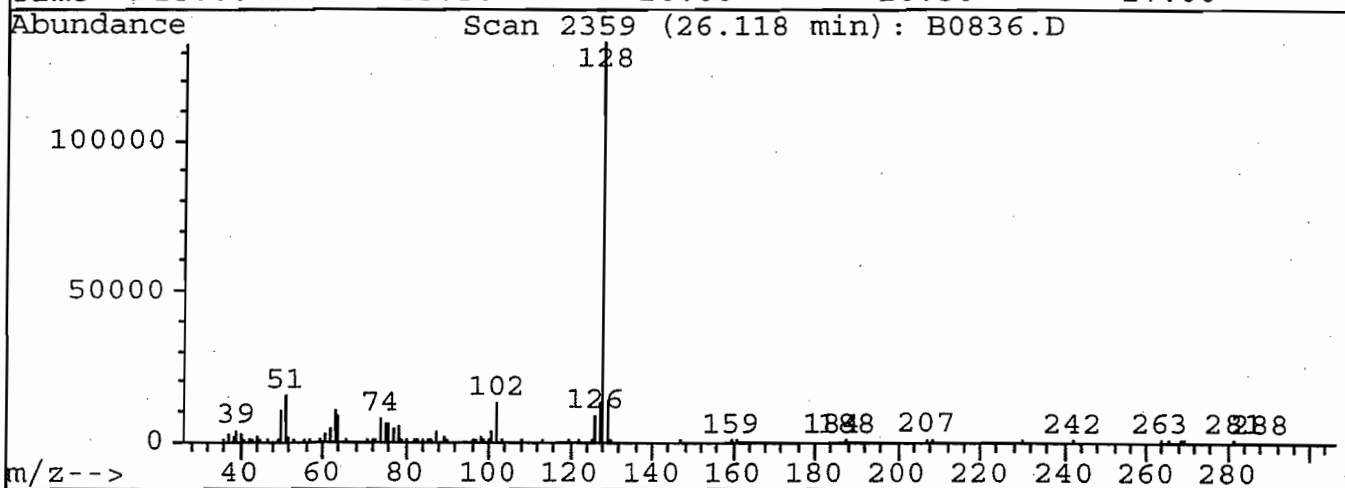
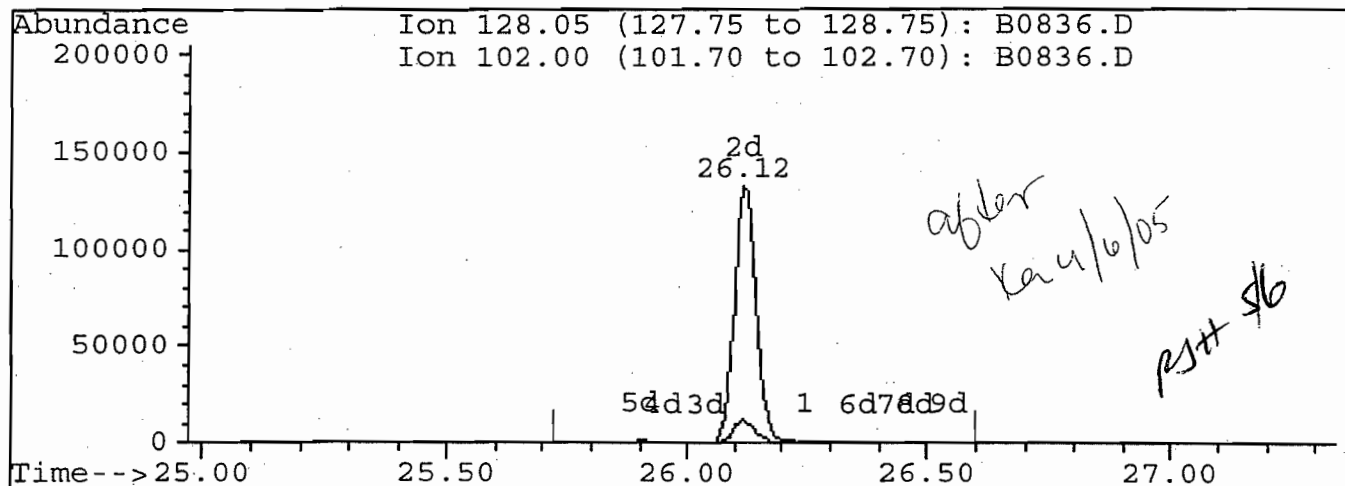
100

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
 Acq On : 6 Apr 105 1:03 pm
 Sample : 20 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:48 19105

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:43:33 2005
 Response via : Multiple Level Calibration



TIC: B0836.D

(96) Naphthalen
 26.12min 25.85ppb m
 response 428004

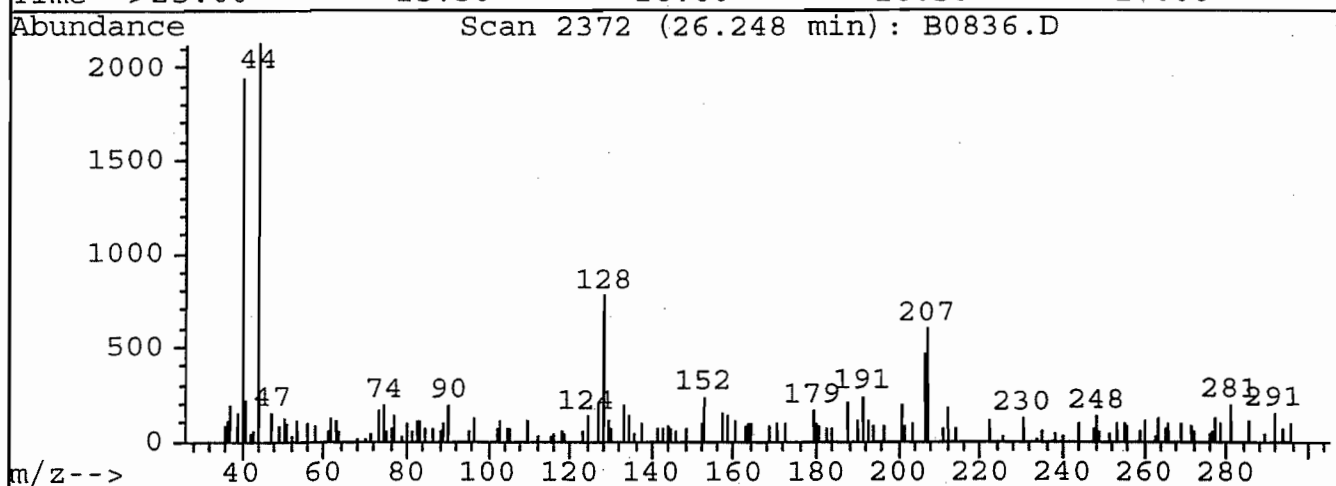
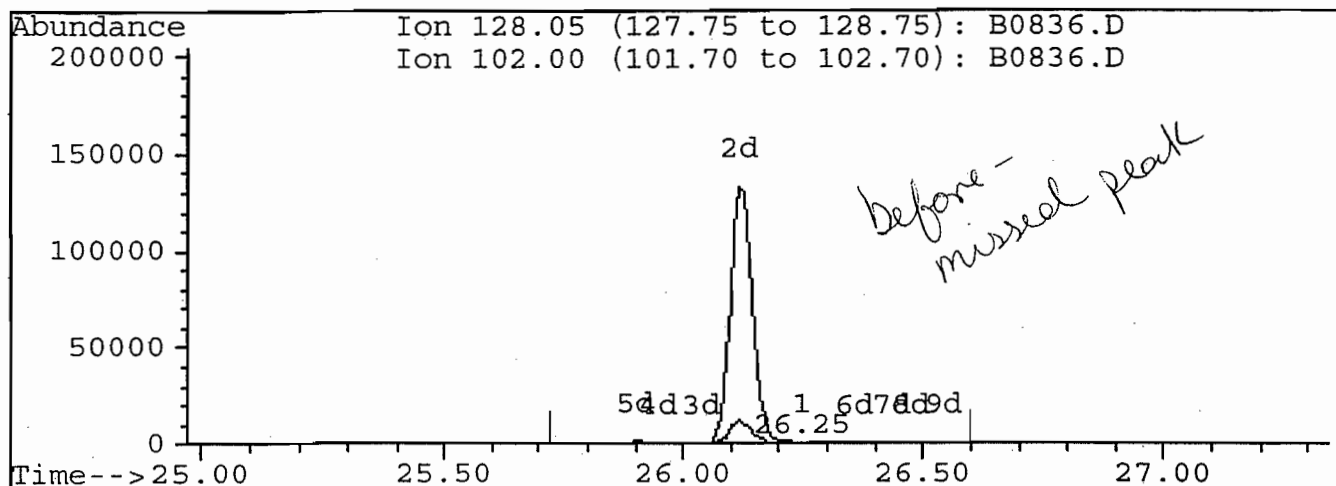
Ion	Exp%	Act%
128.05	100	100
102.00	7.40	9.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
 Acq On : 6 Apr 105 1:03 pm
 Sample : 20 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:48 19105

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:43:33 2005
 Response via : Multiple Level Calibration



TIC: B0836.D

(96) Naphthalen

26.25min 0.16ppb

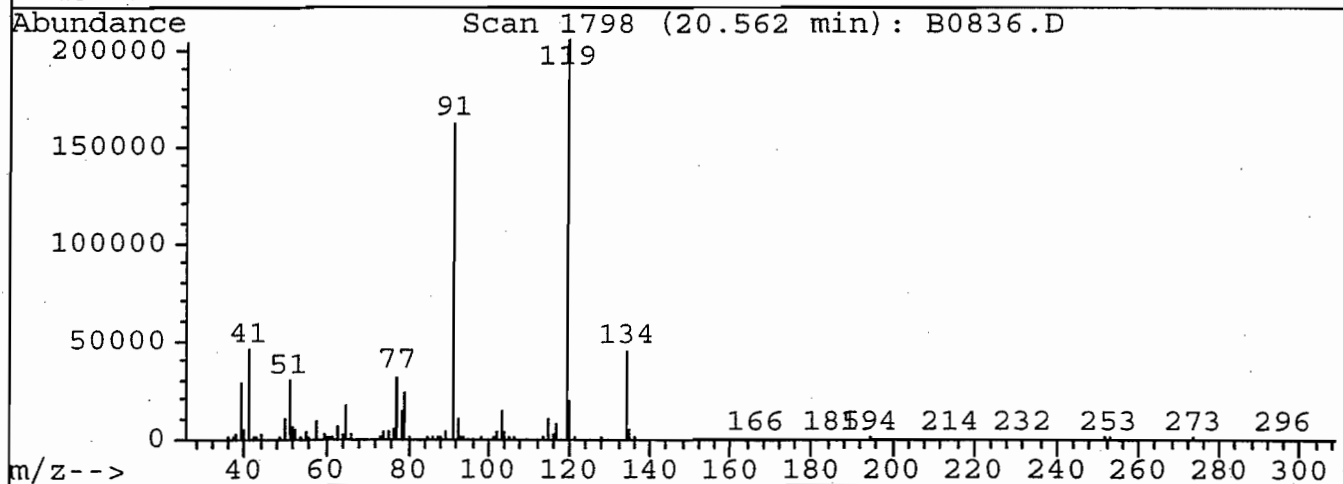
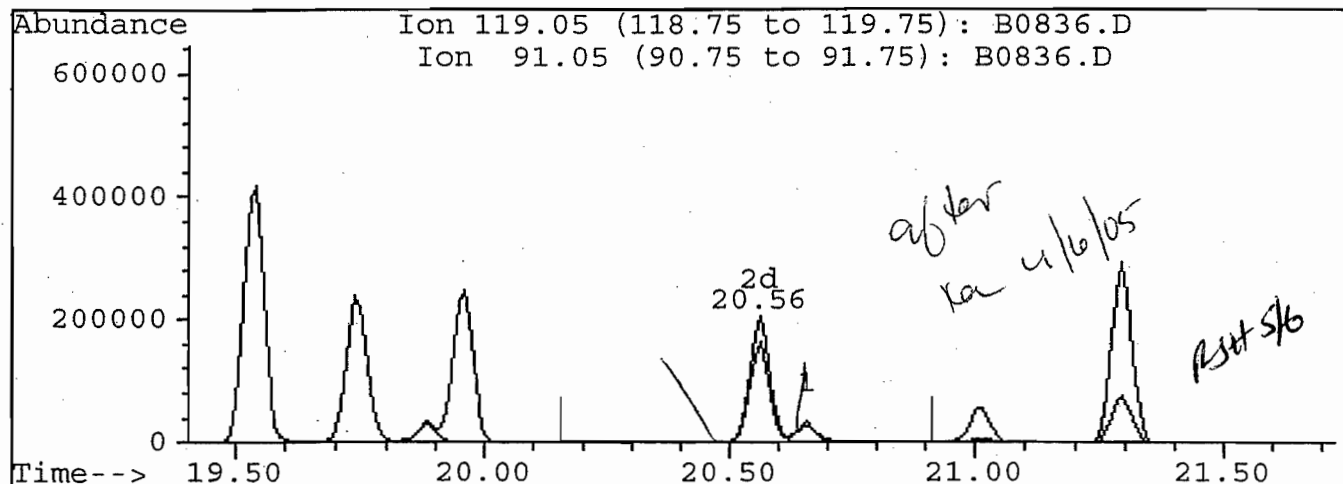
response 2642

Ion	Exp%	Act%
128.05	100	100
102.00	7.40	8.45
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
Acq On : 6 Apr 105 1:03 pm
Sample : 20 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:48 19105

Vial: 38
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 13:43:33 2005
Response via : Multiple Level Calibration



TIC: B0836.D

(84) tert-Butylbenzene

20.56min 23.18ppb m

response 612942

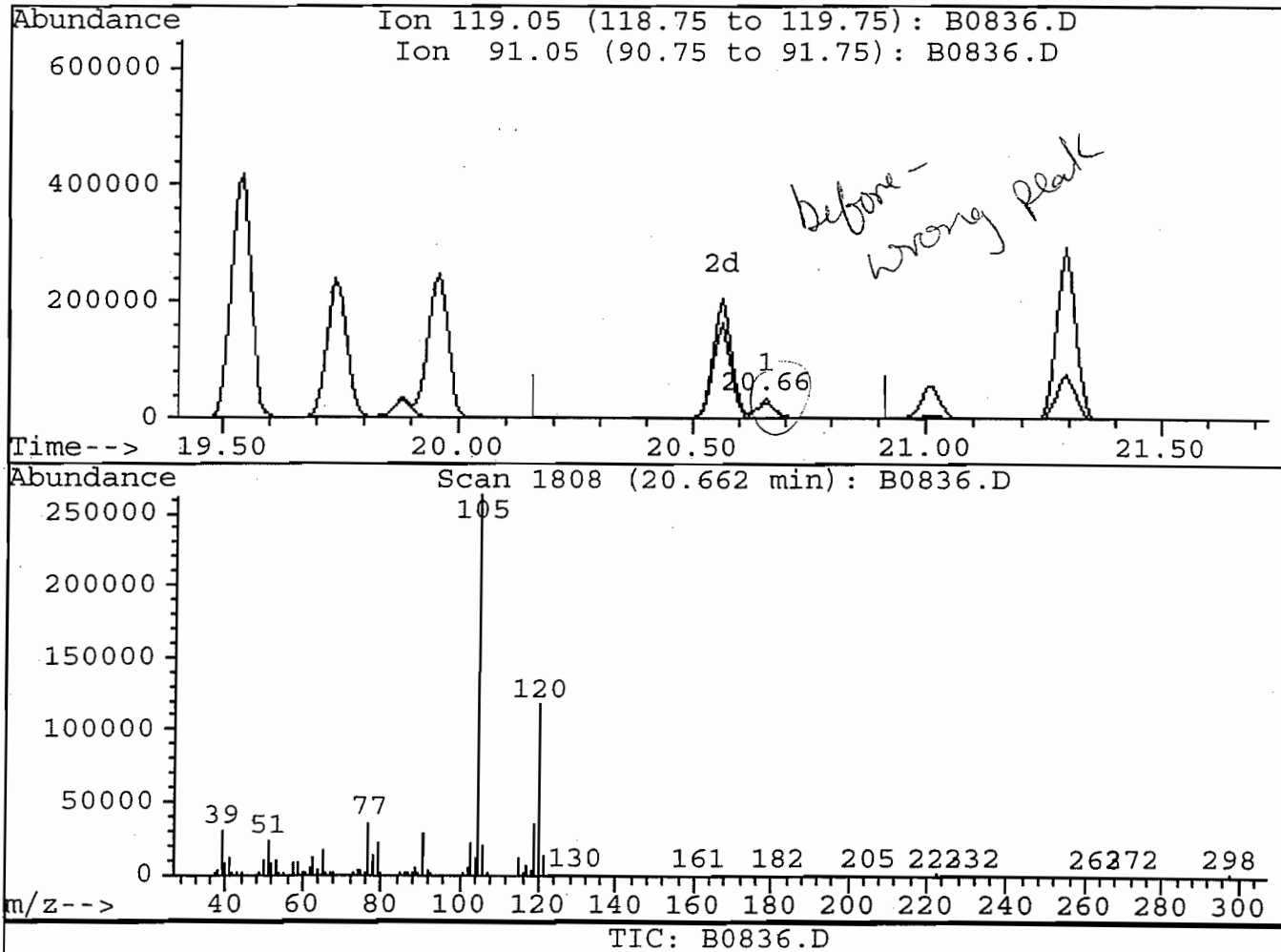
Ion	Exp%	Act%
119.05	100	100
91.05	65.50	78.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
Acq On : 6 Apr 105 1:03 pm
Sample : 20 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:32 19105

Vial: 38
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 13:43:33 2005
Response via : Multiple Level Calibration



(84) tert-Butylbenzene

20.66min 3.31ppb

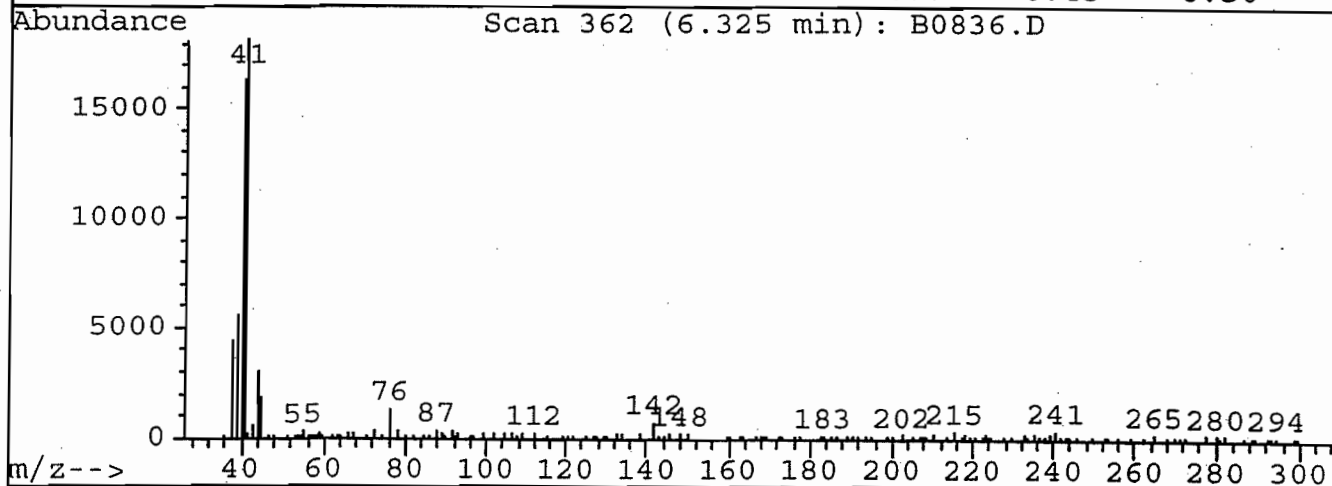
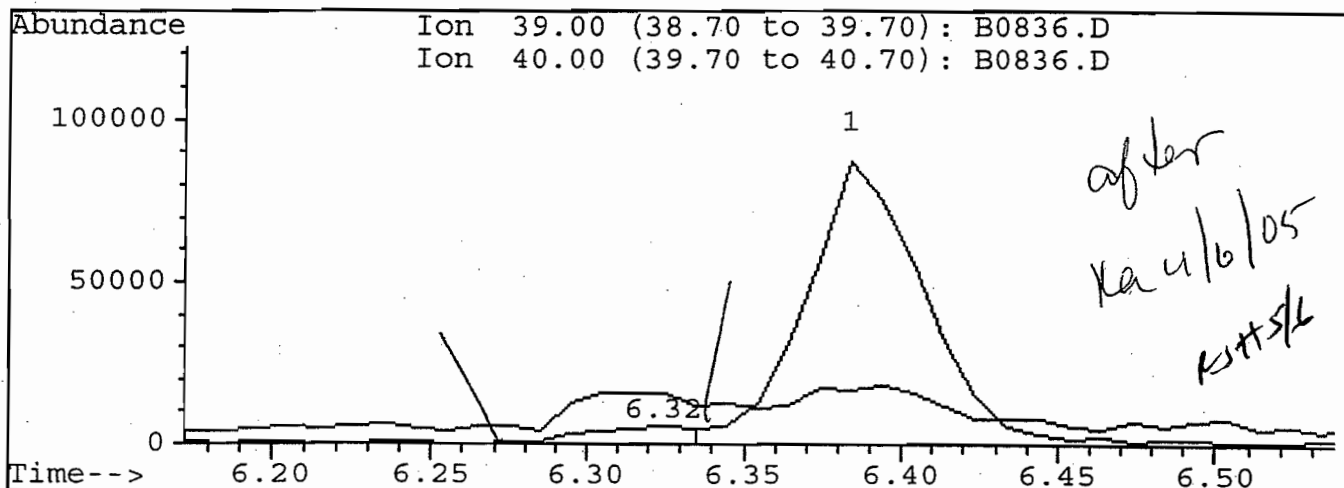
response 87601

Ion	Exp%	Act%
119.05	100	100
91.05	65.50	77.85
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
Acq On : 6 Apr 105 1:03 pm
Sample : 20 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 16:01 19105

Vial: 38
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 15:55:53 2005
Response via : Multiple Level Calibration



TIC: B0836.D

(16) Acetonitrile
6.32min 110.11ppb m
response 13088

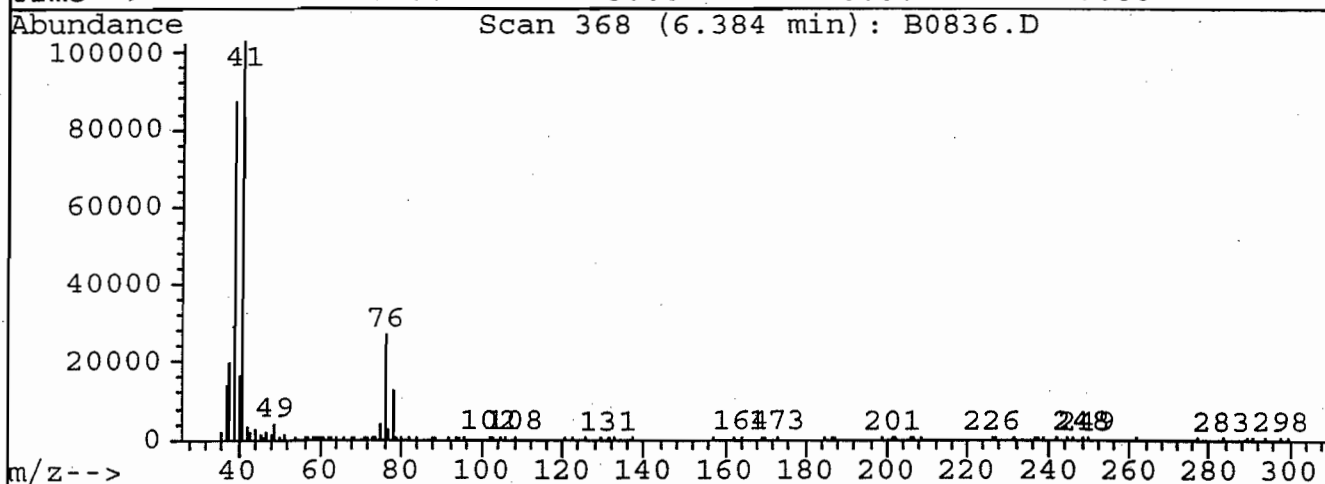
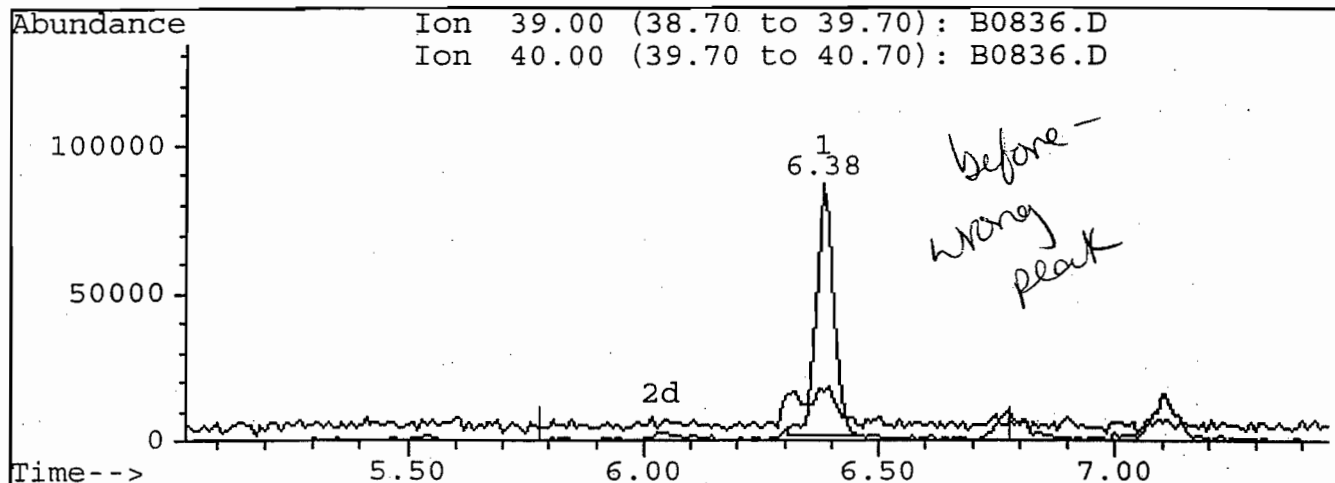
Ion	Exp%	Act%
39.00	100	100
40.00	285.70	291.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
 Acq On : 6 Apr 105 1:03 pm
 Sample : 20 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:48 19105

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 15:55:53 2005
 Response via : Multiple Level Calibration



TIC: B0836.D

(16) Acetonitrile
 6.38min 1853.17ppb
 response 220279

Ion	Exp%	Act%
39.00	100	100
40.00	285.70	18.86#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
Acq On : 6 Apr 105 1:03 pm
Sample : 20 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:48 19105

Vial: 38
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 13:47:10 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) 1,3-Dclbenz	21.28	146	398130	23.10	ppb	95
89) 1,4-Dclbenz	21.46	146	398188	23.06	ppb	97
90) n-Butylbenzene	22.14	91	835551	26.81	ppb	99
91) 1,2-Dclbenz	22.23	146	363183	22.15	ppb	97
92) 1,2-Dibromo-3-chloropropan	23.83	157	32068	20.09	ppb #	70
94) 1,2,4-Tcbenzene	25.57	180	209512	23.86	ppb	99
95) Hexachlorobt	25.92	225	99455	18.68	ppb	96
96) Naphthalen	26.12	128	428004	25.85	ppb m ka	97
97) 1,2,3-Tclbenzene	26.67	180	181671	22.98	ppb #	77

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
 Acq On : 6 Apr 105 1:03 pm
 Sample : 20 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:48 19105

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:47:10 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35) Cyclohexane	9.83	56	16337	0.87	ppb	# 1
38) Carbontetrachloride	10.16	117	241341	24.95	ppb	97
39) 1,1-Dichloropropene	10.15	75	278949	24.56	ppb	97
40) Iso-Butyl Alcohol	10.28	43	176346	383.77	ppb	91
41) Benzene	10.52	78	741778	20.26	ppb	96
43) 1,2-Dichloroethane	10.53	62	280820	28.61	ppb	98
44) Trichloroethene	11.69	95	228086	24.11	ppb	85
46) 1,2-Diclp propane	12.09	63	211398	20.11	ppb	95
47) Methyl Methacrylate	12.25	69	110327	20.70	ppb	72
48) Dibromomethane	12.31	93	142361	25.77	ppb	93
49) Bromodichloromethane	12.58	83	302372	26.82	ppb	# 98
50) 2-Nitropropane	12.96	41	88629	50.36	ppb	# 70
52) cis-1,3-Dichloropropene	13.40	75	347597	22.95	ppb	# 89
53) 4-Methyl-2-Pentanone	13.65	43	234932	20.75	ppb	98
54) Toluene	14.04	91	825530	20.75	ppb	93
55) trans-1,3-Dichloropropene	14.43	75	303858	24.09	ppb	97
56) Ethyl Methacrylate	14.56	69	243099	20.10	ppb	94
57) 1,1,2-Trichloroethane	14.79	83	160758	22.72	ppb	92
61) Tetrachloroethene	15.10	166	193232	21.55	ppb	94
62) 2-Hexanone	15.22	43	150258	21.19	ppb	97
63) 1,3-Dichloropropane	15.11	76	317571	25.78	ppb	95
64) Dibromochloromethane	15.56	129	211552	26.64	ppb	95
65) 1,2-Dibromoethane	15.81	107	188660	24.41	ppb	99
66) Chlorobenzene	16.76	112	546279	21.19	ppb	95
67) 1,1,1,2-Tetrachloroethane	16.91	131	186114	23.16	ppb	# 82
68) Ethylbenzene	16.96	91	978787	22.81	ppb	96
69) (m+p)Xylene	17.18	106	710751	43.19	ppb	90
70) o-Xylene	17.98	106	354899	21.55	ppb	91
71) Styrene	18.00	104	618956	23.57	ppb	92
72) Bromoform	18.39	173	108376	21.30	ppb	93
73) Isopropylbenzene	18.71	105	923535	21.71	ppb	100
74) Cyclohexanone	18.90	55	544471	357.57	ppb	92
76) 1,1,2,2-Tetrachloroethane	19.28	83	258438	26.82	ppb	97
77) 1,2,3-Trichloropropane	19.38	110	62710	28.49	ppb	# 82
78) Trans-1,4-Dichloro-2-Buten	19.38	53	57243	31.40	ppb	90
79) n-Propylbenzene	19.54	91	1184006	25.42	ppb	96
80) Bromobenzene	19.36	156	217428	24.00	ppb	97
81) 1,3,5-Trimethylbenzene	19.88	105	748883	26.03	ppb	91
82) 2-Chlorotoluene	19.74	91	708540	26.54	ppb	99
83) 4-Chlorotoluene	19.96	91	714051	25.99	ppb	98
84) tert-Butylbenzene	20.56	119	612942	23.18	ppb	m Ya 84
85) 1,2,4-Trimethylbenzene	20.66	105	736732	26.15	ppb	92
86) sec-Butylbenzene	21.01	105	996297	23.68	ppb	95
87) p-Isopropyltoluene	21.30	119	775938	23.73	ppb	94

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

B0836.D SOIL0406.M Wed Apr 06 13:49:33 2005

92

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0836.D
 Acq On : 6 Apr 105 1:03 pm
 Sample : 20 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:48 19105

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:47:10 2005
 Response via : Multiple Level Calibration

ka 4/6/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.85	168	704311	50.00	ppb	0.03
36) 1,4-Difluorobenzene	11.18	114	1239717	50.00	ppb	0.03
60) d5-Chlorobenze	16.70	117	1242273	50.00	ppb	0.02
75) d4-1,4-Dichlorobenzene	21.41	152	562699	50.00	ppb	0.04

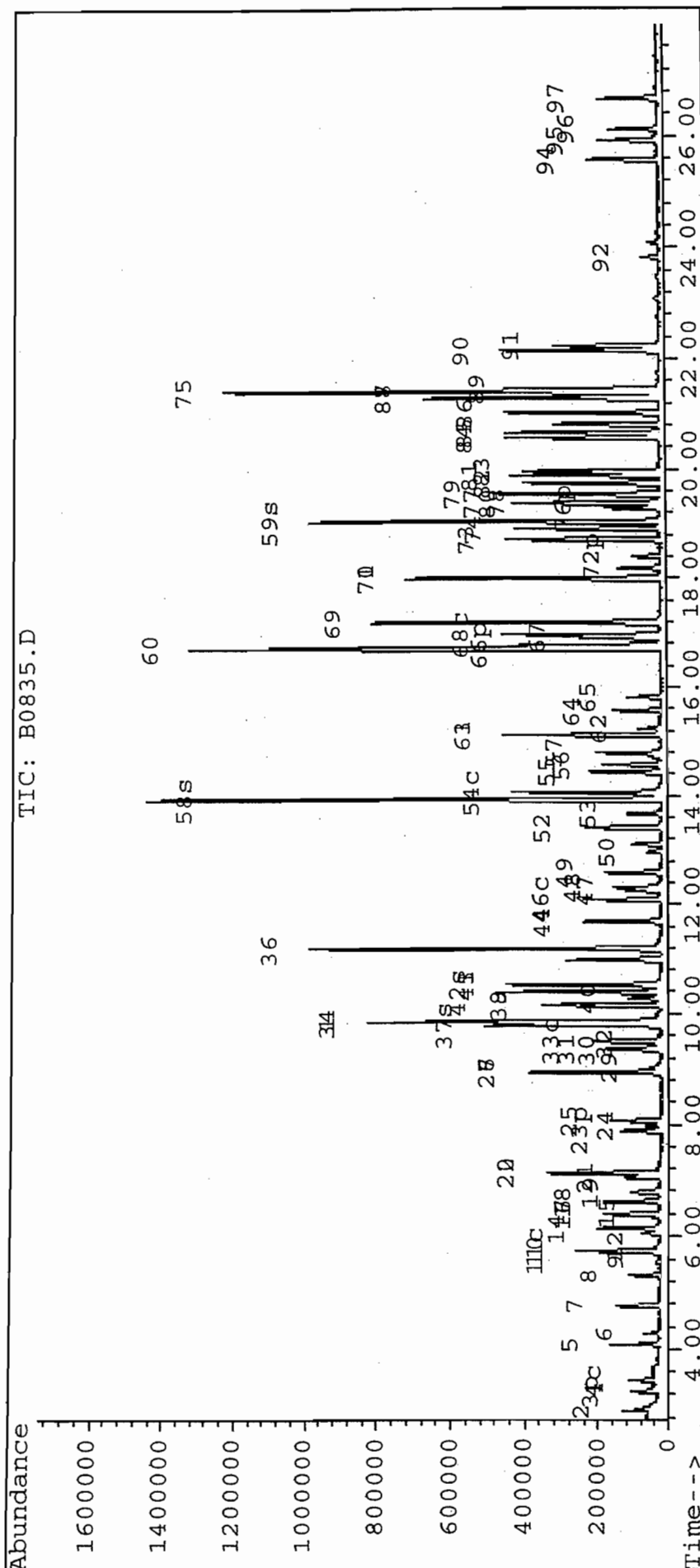
System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.78	113	756851	85.97	ppb	171.94%
42) surr1,1,2-Dicethane	10.40	65	783589	111.13	ppb	222.25%
58) surr3,Toluene-d8	13.93	98	2456156	76.02	ppb	152.04%
59) surr2,bfb	19.03	95	1029580	70.39	ppb	140.77%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.92	85	197540	23.27	ppb	# 93
3) Chloromethane	3.25	50	207831	18.80	ppb	99
4) Vinyl Chloride	3.45	62	146377	18.22	ppb	93
5) Bromomethane	4.07	94	207508	32.78	ppb	91
6) Chloroethane	4.27	64	97357	18.62	ppb	95
7) Trichlorofluoromethane	4.77	101	294627	26.63	ppb	97
8) Diethyl Ether	5.29	59	117023	21.58	ppb	86
9) Acrolein	5.52	56	45854	65.27	ppb	# 73
10) FREON 113	5.73	85	81632	24.62	ppb	97
11) 1,1-Dicethene	5.73	96	140888	23.05	ppb	86
12) Acetone	5.83	43	45770	21.02	ppb	# 74
14) Carbon Disulfide	6.14	76	629912	22.88	ppb	95
15) Methyl Acetate	6.42	43	44469	23.11	ppb	# 86
16) Acetonitrile	6.32-6.38	39/30%	220279	1853.17	ppb	# 110.111m (Ka)
17) Allyl Chloride	6.39	76	84166	20.64	ppb	95
18) Methylene Chloride	6.61	84	175767	20.44	ppb	88
19) TBA	6.78	59	358973	430.19	ppb	# 87
20) Methyl-t-Butyl Ether	7.11	73	447963	23.92	ppb	# 94
21) Acrylonitrile	7.04	53	255602	99.49	ppb	97
22) trans-1,2-Dichloroethene	7.12	96	173980	21.33	ppb	93
23) 1,1-Dicethane	7.89	63	342496	20.74	ppb	92
24) Vinyl Acetate	7.98	42	21894	26.13	ppb	# 59
25) 2-Chloro-1,3-butadiene	8.05	53	268932	24.91	ppb	97
26) 2,2-Dichloropropane	8.94	77	299737	26.20	ppb	95
27) 2-Butanone	8.95	43	89562	20.44	ppb	97
28) cis-1,2-Dichloroethene	8.93	96	215188	22.50	ppb	97
29) Propionitrile	9.03	54	97490	91.80	ppb	99
30) Methacrylonitrile	9.30	67	59574	21.40	ppb	92
31) Bromochloromethane	9.36	128	103735	22.45	ppb	# 75
32) Tetrahydrofuran	9.46	42	50983	19.75	ppb	# 86
33) Chloroform	9.49	83	377586	24.74	ppb	98
34) 1,1,1-Trichloroethane	9.85	97	299119	25.61	ppb	# 52

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

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D Vial: 37
 Acq On : 6 Apr 105 12:28 pm Operator: K.ARNOLD
 Sample : 10 PPB Inst : 5971 - In
 Misc : 8260B SOIL CURVE Multiplr: 1.00
 Quant Time: Apr 6 13:45 19105

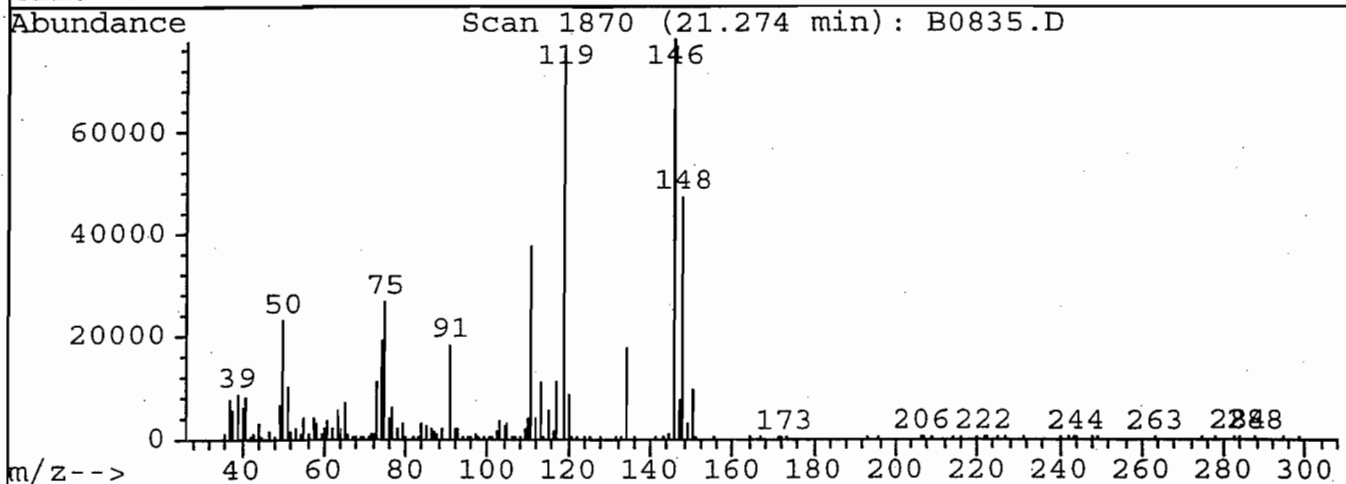
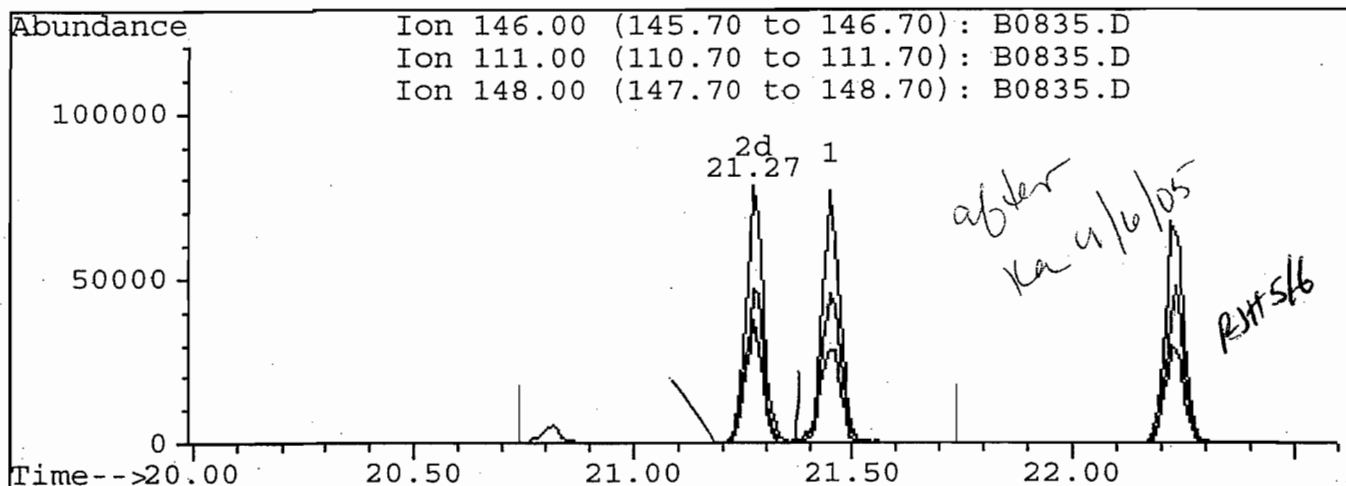
Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260vov
 Last Update : Wed Apr 06 13:43:33 2005
 Response via : Multiple Level Calibration



Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D
 Acq On : 6 Apr 105 12:28 pm
 Sample : 10 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:45 19105

Vial: 37
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0835.D

(88) 1,3-Dclbenz
 21.27min 14.22ppb m
 response 210642

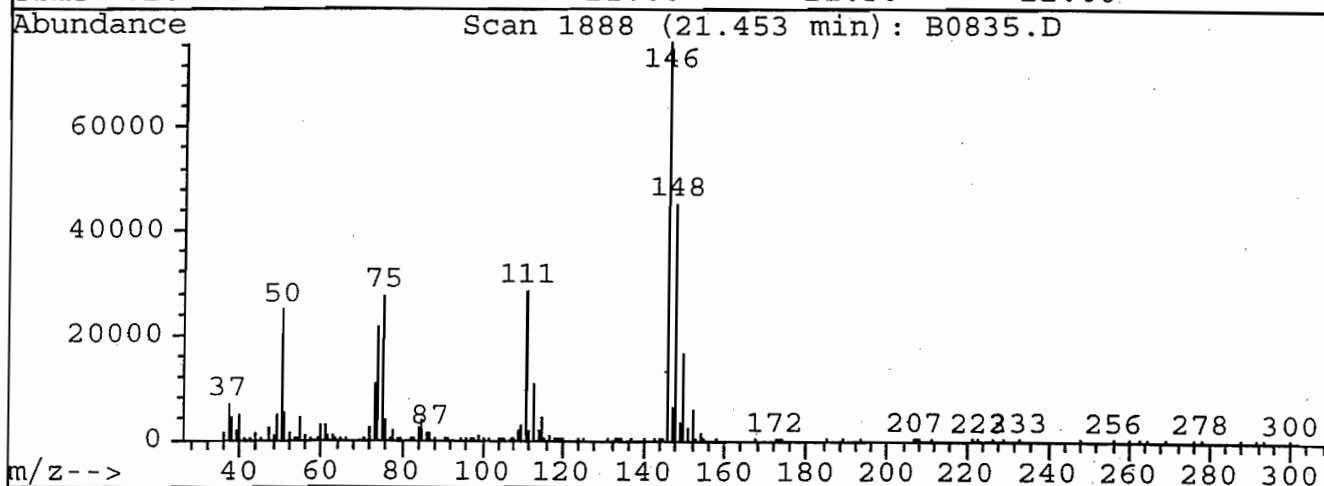
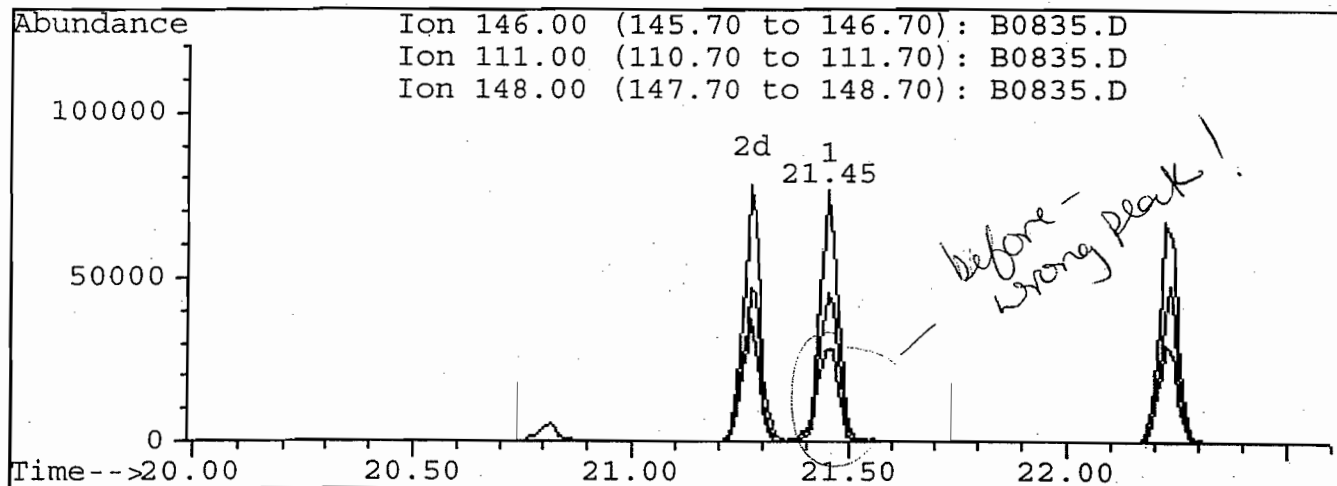
Ion	Exp%	Act%
146.00	100	100
111.00	39.90	48.29
148.00	62.80	60.34
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D
Acq On : 6 Apr 105 12:28 pm
Sample : 10 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:44 19105

Vial: 37
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration



TIC: B0835.D

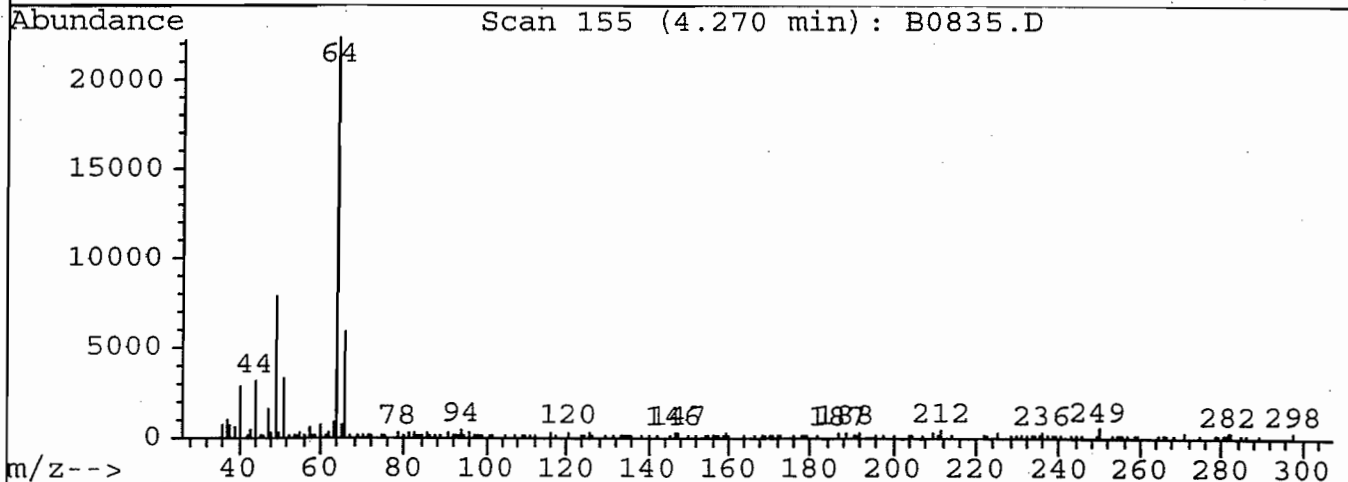
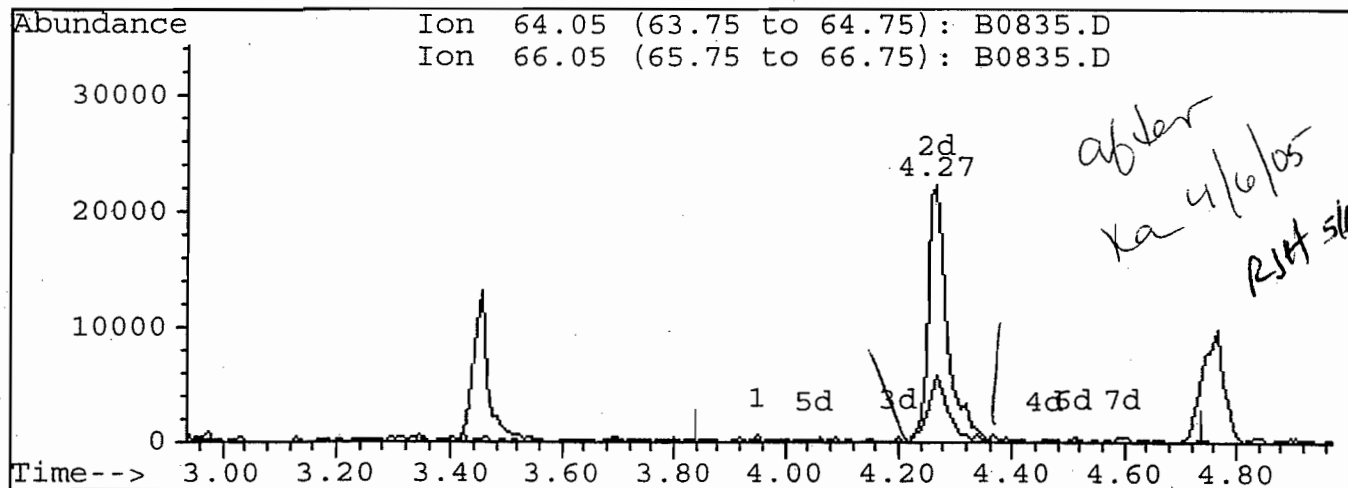
(88) 1,3-Dclbenz
21.45min 14.18ppb
response 209952

Ion	Exp%	Act%
146.00	100	100
111.00	39.90	37.28
148.00	62.80	59.22
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D
 Acq On : 6 Apr 105 12:28 pm
 Sample : 10 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:43 19105

Vial: 37
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0835.D

(6) Chloroethane

4.27min 11.37ppb m

response 56360

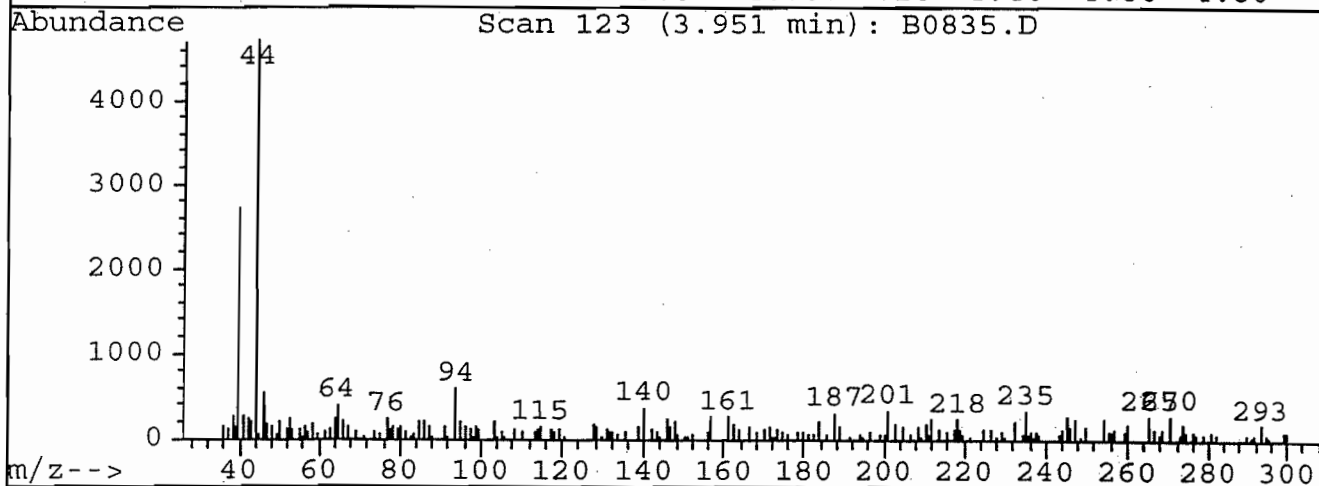
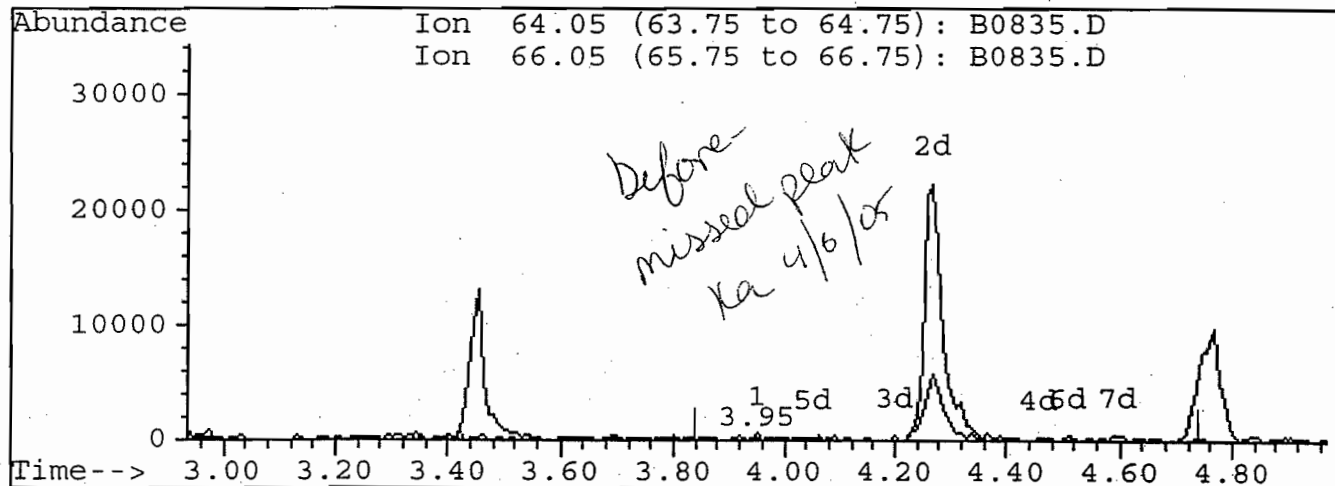
Ion	Exp%	Act%
64.05	100	100
66.05	34.70	26.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D
 Acq On : 6 Apr 105 12:28 pm
 Sample : 10 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 12:56 19105

Vial: 37
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0835.D

(6) Chloroethane

3.95min 0.07ppb

response 364

Ion	Exp%	Act%
64.05	100	100
66.05	34.70	30.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D
Acq On : 6 Apr 105 12:28 pm
Sample : 10 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:45 19105

Vial: 37
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 13:43:33 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
89) 1,4-Dclbenz	21.45	146	208492	14.05	ppb	94
90) n-Butylbenzene	22.15	91	428534	16.00	ppb	95
91) 1,2-Dclbenz	22.23	146	197766	14.04	ppb	95
92) 1,2-Dibromo-3-chloropropan	23.82	157	16360	11.93	ppb #	29
94) 1,2,4-Tcbenzene	25.57	180	102518	13.59	ppb #	80
95) Hexachlorobt	25.93	225	53365	11.66	ppb	90
96) Naphthalen	26.13	128	209201	14.70	ppb #	94
97) 1,2,3-Tclbenzene	26.67	180	90683	13.35	ppb	84

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D
 Acq On : 6 Apr 105 12:28 pm
 Sample : 10 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:45 19105

Vial: 37
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:43:33 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbontetrachloride	10.16	117	136455	15.08	ppb	88
39) 1,1-Dichloropropene	10.14	75	162253	15.27	ppb	95
40) Iso-Butyl Alcohol	10.28	43	97468	226.72	ppb	99
41) Benzene	10.53	78	415900	12.14	ppb	99
43) 1,2-Dichloroethane	10.53	62	158014	17.20	ppb	# 95
44) Trichloroethene	11.68	95	117478	13.27	ppb	94
46) 1,2-Diclpropane	12.08	63	116960	11.89	ppb	96
47) Methyl Methacrylate	12.25	69	58671	11.77	ppb	89
48) Dibromomethane	12.30	93	79255	15.33	ppb	86
49) Bromodichloromethane	12.58	83	167525	15.88	ppb	90
50) 2-Nitropropane	12.97	41	42604	25.87	ppb	98
52) cis-1,3-Dichloropropene	13.40	75	194643	13.73	ppb	95
53) 4-Methyl-2-Pentanone	13.66	43	135176	12.76	ppb	# 81
54) Toluene	14.06	91	467328	12.56	ppb	90
55) trans-1,3-Dichloropropene	14.43	75	162700	13.79	ppb	92
56) Ethyl Methacrylate	14.57	69	131728	11.64	ppb	94
57) 1,1,2-Trichloroethane	14.79	83	81609	12.33	ppb	91
61) Tetrachloroethene	15.10	166	108857	12.96	ppb	# 92
62) 2-Hexanone	15.22	43	85842	12.91	ppb	90
63) 1,3-Dichloropropane	15.10	76	170731	14.79	ppb	96
64) Dibromochloromethane	15.56	129	107388	14.43	ppb	83
65) 1,2-Dibromoethane	15.81	107	107561	14.85	ppb	95
66) Chlorobenzene	16.76	112	295372	12.22	ppb	98
67) 1,1,1,2-Tetrachloroethane	16.90	131	104918	13.93	ppb	92
68) Ethylbenzene	16.96	91	528636	13.14	ppb	99
69) (m+p)Xylene	17.19	106	394856	25.60	ppb	95
70) o-Xylene	17.98	106	192590	12.48	ppb	91
71) Styrene	18.00	104	318883	12.96	ppb	# 81
72) Bromoform	18.38	173	59705	12.52	ppb	# 80
73) Isopropylbenzene	18.70	105	499355	12.52	ppb	99
74) Cyclohexanone	18.90	55	286699	200.90	ppb	94
76) 1,1,2,2-Tetrachloroethane	19.27	83	139831	16.89	ppb	# 97
77) 1,2,3-Trichloropropane	19.38	110	33016	17.46	ppb	89
78) Trans-1,4-Dichloro-2-Buten	19.39	53	29196	18.64	ppb	63
79) n-Propylbenzene	19.54	91	653288	16.32	ppb	95
80) Bromobenzene	19.35	156	114559	14.72	ppb	84
81) 1,3,5-Trimethylbenzene	19.89	105	414914	16.78	ppb	89
82) 2-Chlorotoluene	19.74	91	384725	16.77	ppb	94
83) 4-Chlorotoluene	19.96	91	389095	16.48	ppb	90
84) tert-Butylbenzene	20.57	119	337862	14.87	ppb	97
85) 1,2,4-Trimethylbenzene	20.66	105	408582	16.87	ppb	# 85
86) sec-Butylbenzene	21.02	105	544800	15.07	ppb	96
87) p-Isopropyltoluene	21.29	119	432691	15.40	ppb	# 91
88) 1,3-Dclbenz	21.27	146	210642	14.22	ppb	m 96

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

B0835.D SOIL0406.M Wed Apr 06 13:45:41 2005

84

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0835.D
 Acq On : 6 Apr 105 12:28 pm
 Sample : 10 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:45 19105

Vial: 37
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 13:43:33 2005
 Response via : Multiple Level Calibration

ka 4/6/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.84	168	667892	50.00	ppb	0.02
36) 1,4-Difluorobenzene	11.18	114	1159855	50.00	ppb	0.03
60) d5-Chlorobenze	16.70	117	1164259	50.00	ppb	0.03
75) d4-1,4-Dichlorobenzene	21.40	152	483552	50.00	ppb	0.03

System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.78	113	467033	56.70	ppb	113.41%
42) surr1,1,2-Dicethane	10.39	65	472820	71.67	ppb	143.34%
58) surr3,Toluene-d8	13.92	98	1474786	48.79	ppb	97.58%
59) surr2,bfb	19.03	95	593794	43.39	ppb	86.78%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.92	85	107608	13.37	ppb	96
3) Chloromethane	3.24	50	115248	10.99	ppb	90
4) Vinyl Chloride	3.44	62	89080	11.70	ppb	91
5) Bromomethane	4.07	94	119243	19.86	ppb	86
6) Chloroethane	4.27	64	56360	11.37	ppb	m <i>ka</i> 93
7) Trichlorofluoromethane	4.77	101	161069	15.35	ppb	96
8) Diethyl Ether	5.29	59	63817	12.41	ppb	92
9) Acrolein	5.54	56	23401	35.13	ppb	# 48
10) FREON 113	5.74	85	40888	13.00	ppb	76
11) 1,1-Dicethene	5.73	96	74530	12.86	ppb	97
12) Acetone	5.82	43	32974	15.97	ppb	# 77
14) Carbon Disulfide	6.14	76	305962	11.72	ppb	96
15) Methyl Acetate	6.44	43	20757	11.37	ppb	91
16) Acetonitrile	6.40	39	108768	964.94	ppb	# 1
17) Allyl Chloride	6.40	76	39444	10.20	ppb	95
18) Methylene Chloride	6.62	84	97476	11.95	ppb	85
19) TBA	6.78	59	194756	246.12	ppb	# 84
20) Methyl-t-Butyl Ether	7.11	73	240265	13.53	ppb	93
21) Acrylonitrile	7.03	53	127120	52.18	ppb	# 82
22) trans-1,2-Dichloroethene	7.12	96	96007	12.41	ppb	94
23) 1,1-Dicethane	7.88	63	189475	12.10	ppb	99
24) Vinyl Acetate	7.97	42	9469	11.92	ppb	# 80
25) 2-Chloro-1,3-butadiene	8.06	53	133615	13.05	ppb	88
26) 2,2-Dichloropropane	8.94	77	160420	14.78	ppb	95
27) 2-Butanone	8.93	43	44917	10.81	ppb	# 84
28) cis-1,2-Dichloroethene	8.94	96	116342	12.83	ppb	87
29) Propionitrile	9.03	54	47195	46.86	ppb	98
30) Methacrylonitrile	9.33	67	25452	9.64	ppb	87
31) Bromochloromethane	9.37	128	49413	11.28	ppb	90
32) Tetrahydrofuran	9.45	42	30703	12.54	ppb	87
33) Chloroform	9.50	83	208246	14.39	ppb	97
34) 1,1,1-Trichloroethane	9.85	97	163590	14.77	ppb	# 1

(#) = qualifier out of range (m) = manual integration
 B0835.D SOIL0406.M Wed Apr 06 13:45:39 2005

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D

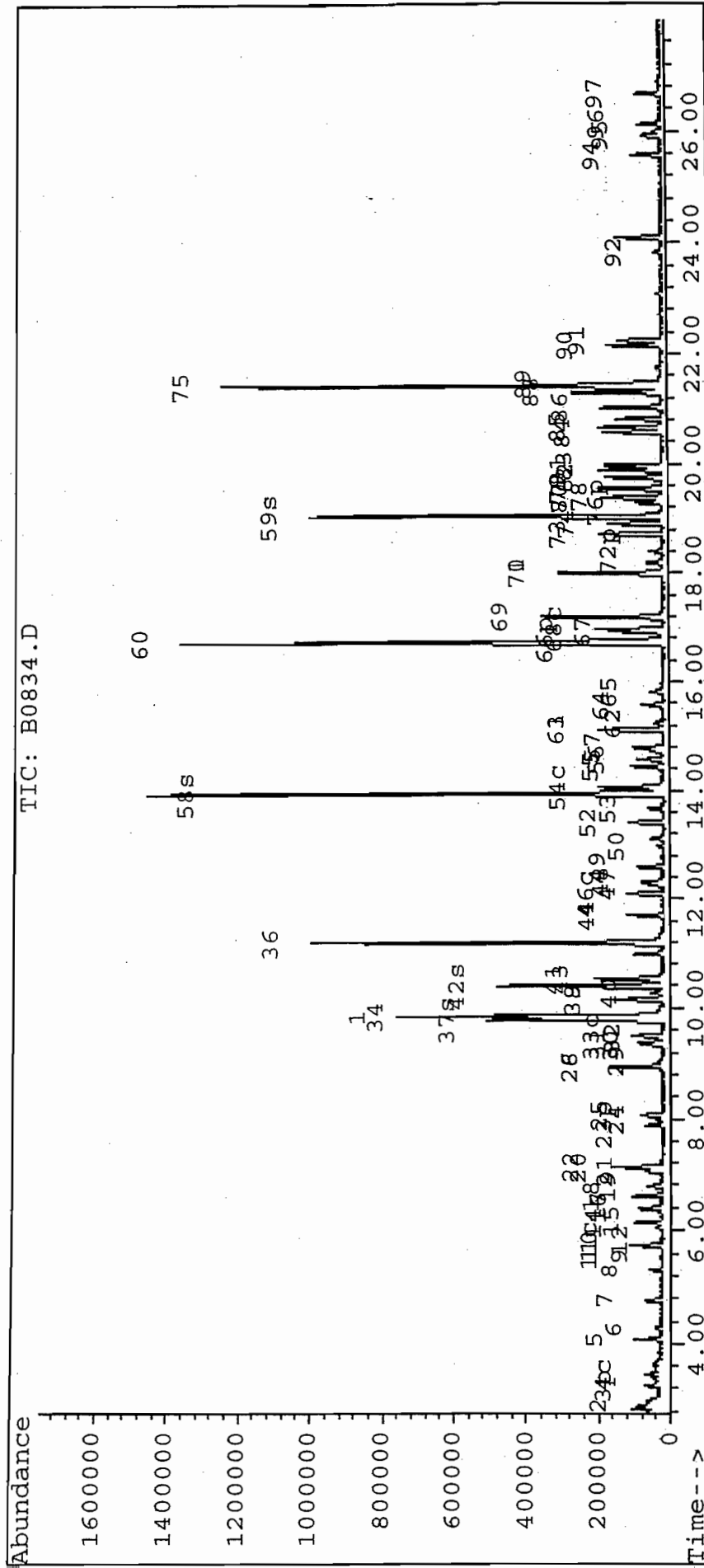
Acq On : 6 Apr 105 11:53 am Vial: 36
Sample : 5 PPB Operator: K.ARNOLD
Misc : 8260B SOIL CURVE Inst : 5971 - In
Quant Time: Apr 6 13:39 19105 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M

Title : 8260voa

Last Update : Wed Feb 02 14:51:26 2005

Response via : Multiple Level Calibration

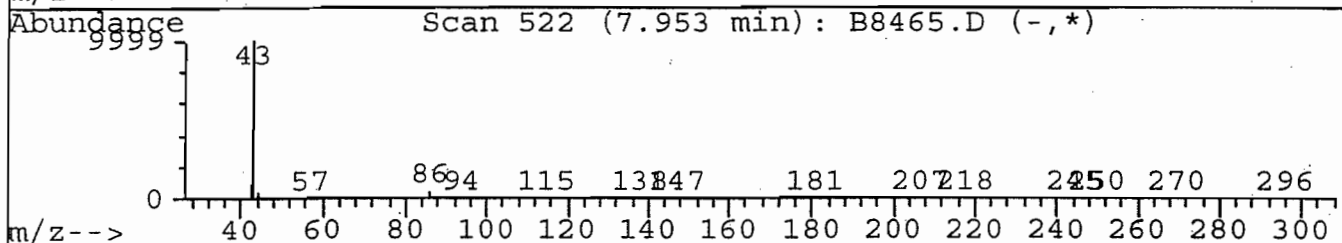
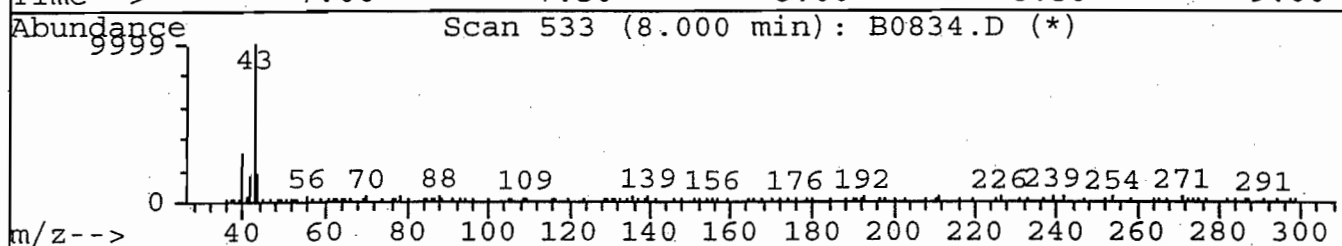
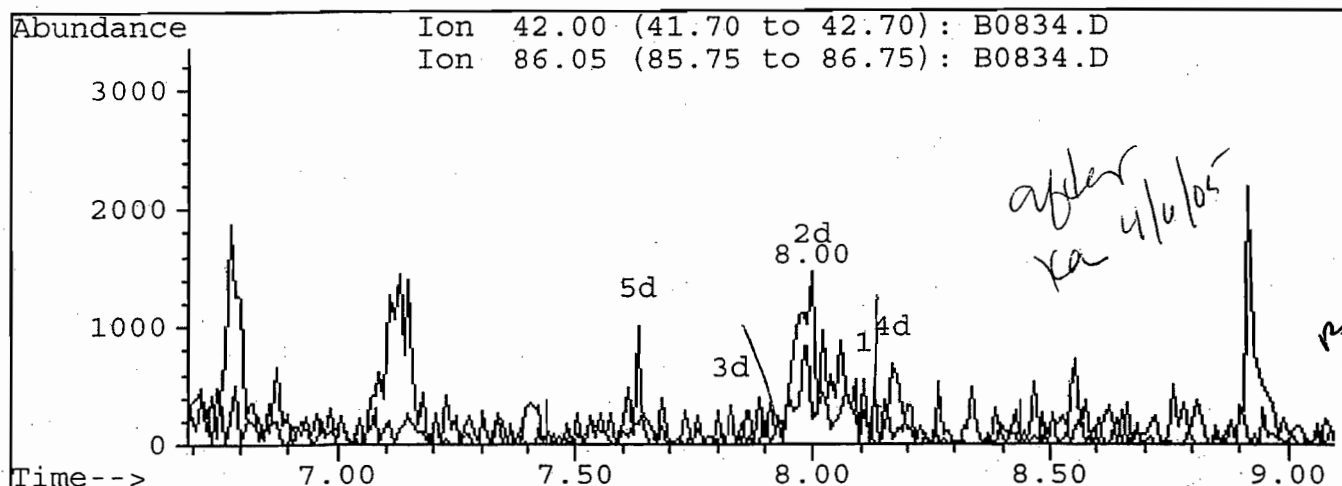


82

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:38 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0834.D

(24) Vinyl Acetate
 8.00min 7.78ppb m
 response 6276

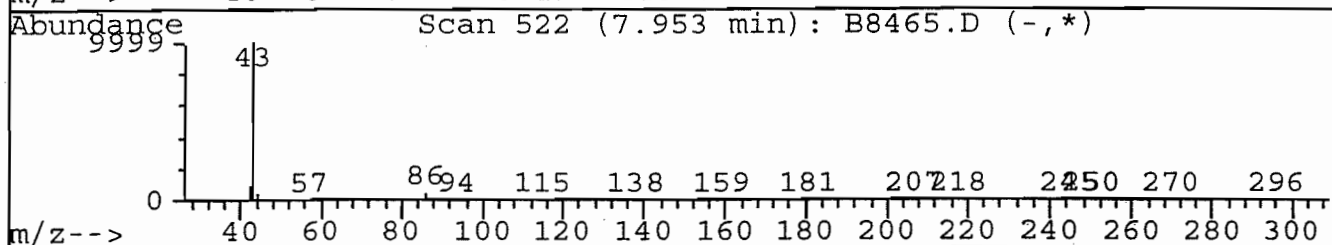
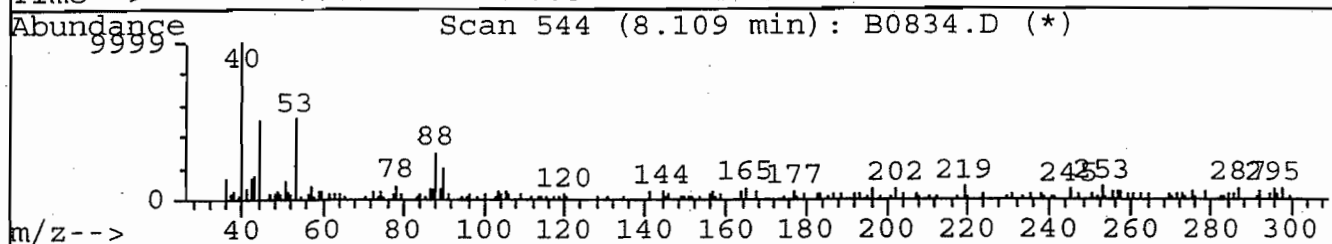
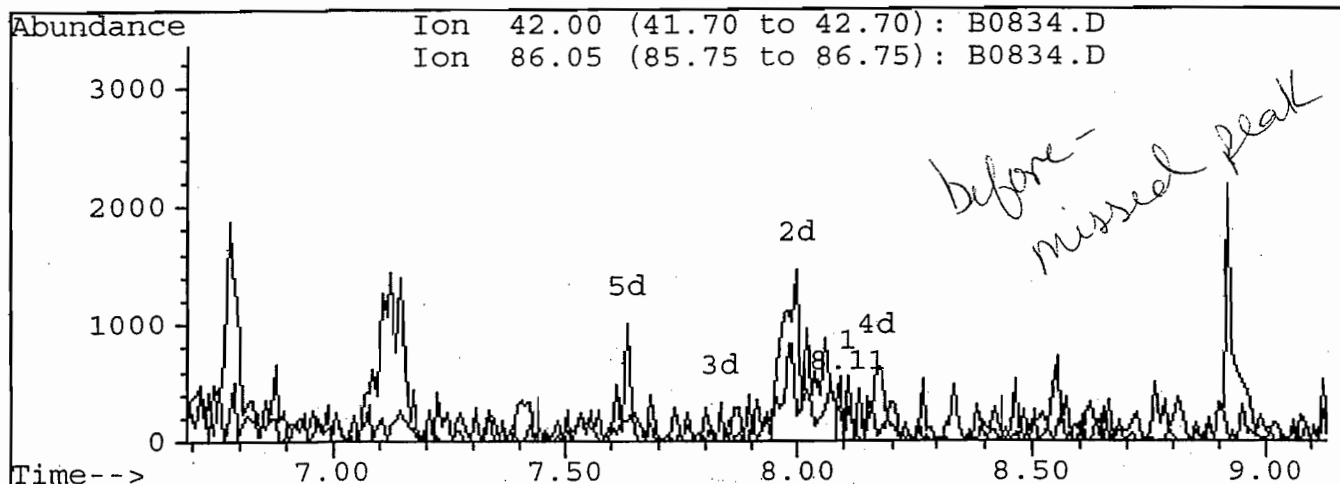
Ion	Exp%	Act%
42.00	100	100
86.05	66.30	9.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:37 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0834.D

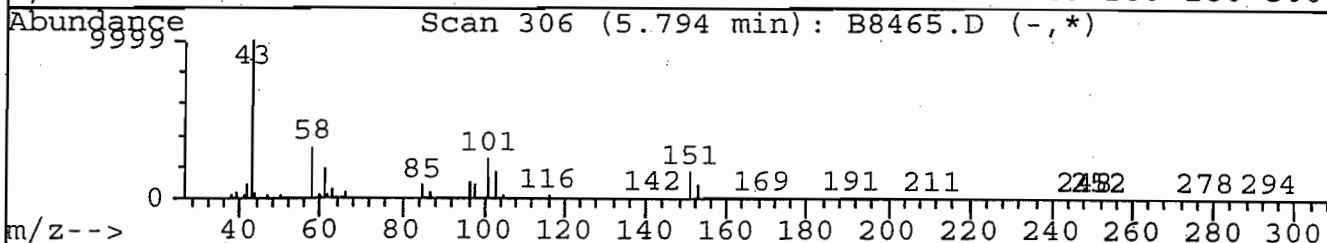
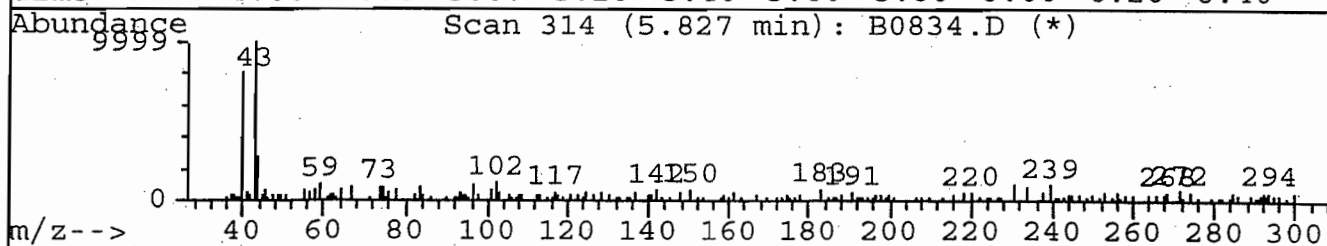
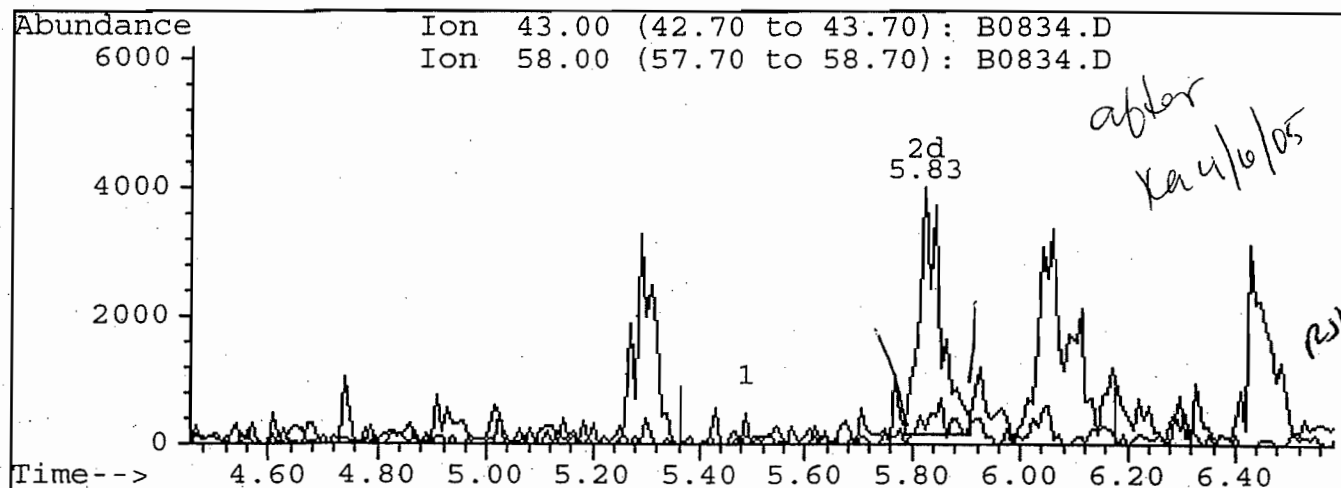
(24) Vinyl Acetate
 8.11min 0.65ppb
 response 528

Ion	Exp%	Act%
42.00	100	100
86.05	66.30	54.93
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
Acq On : 6 Apr 105 11:53 am
Sample : 5 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:36 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration



TIC: B0834.D

(12) Acetone

5.83min 5.10ppb m

response 10687

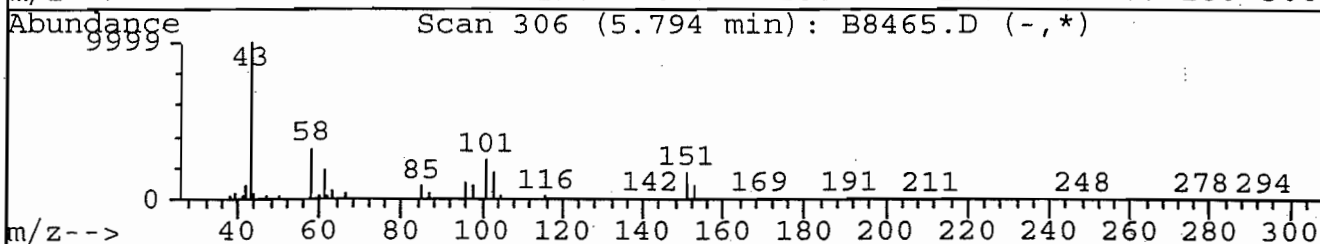
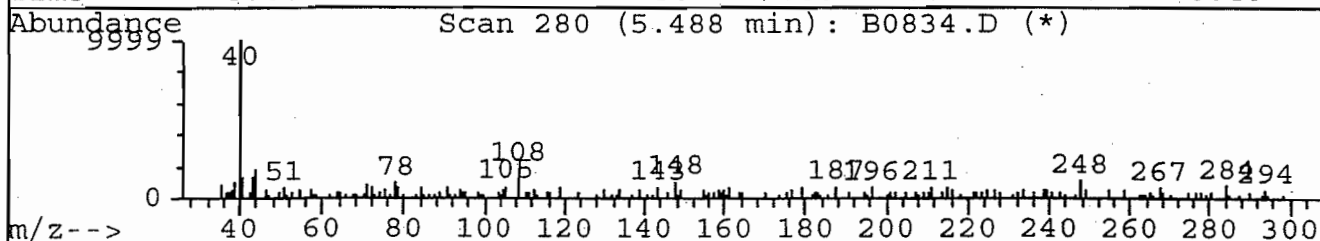
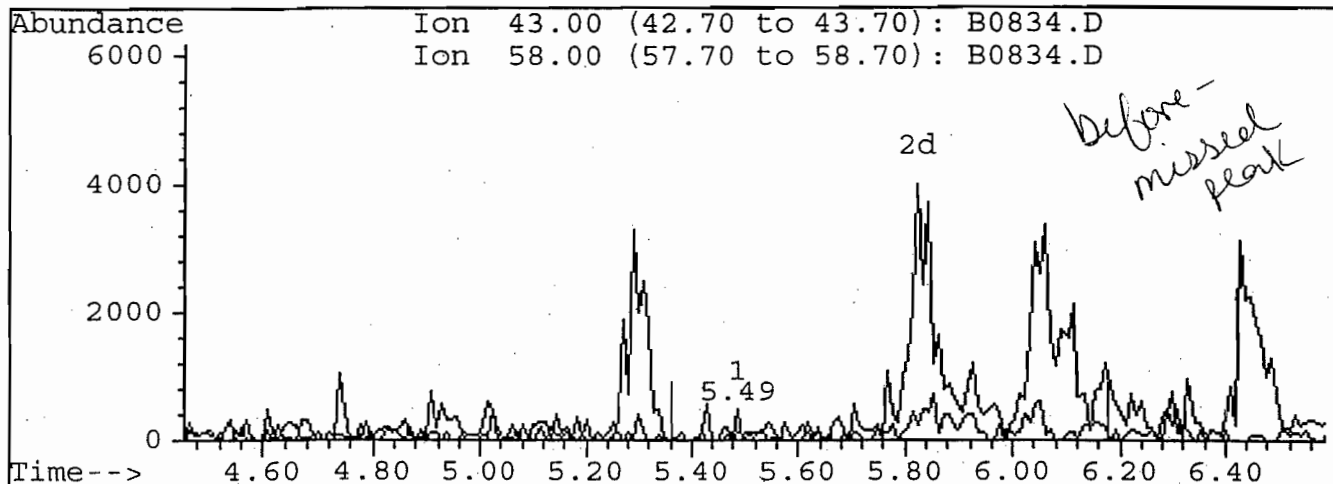
Ion	Exp%	Act%
43.00	100	100
58.00	22.80	6.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:35 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0834.D

(12) Acetone

5.49min 0.43ppb

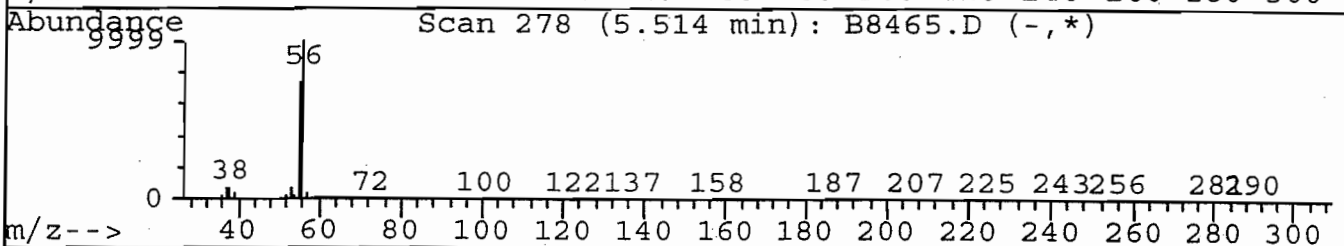
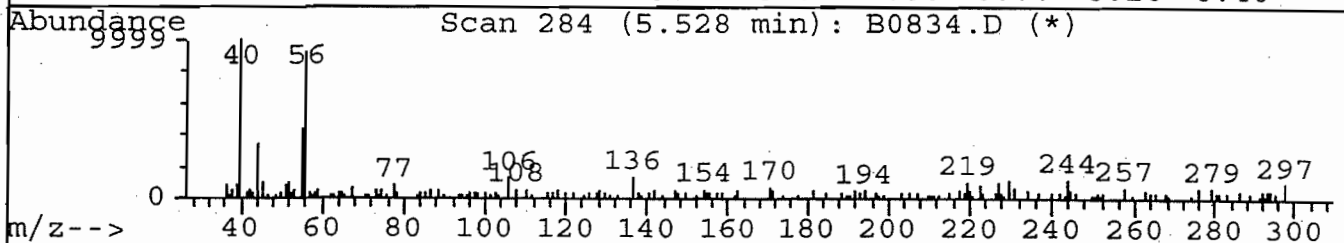
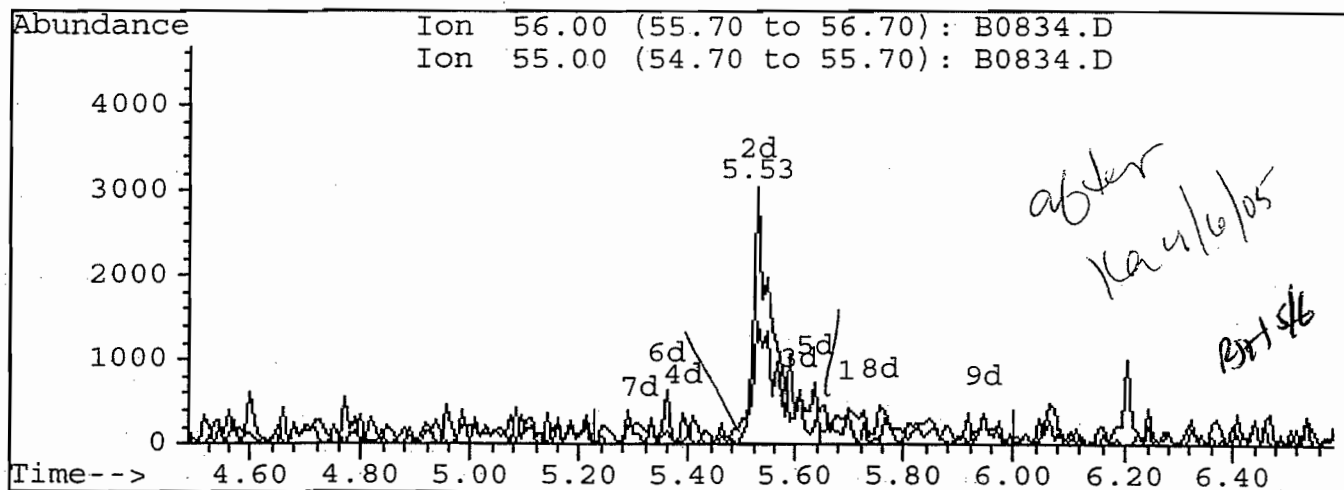
response 891

Ion	Exp%	Act%
43.00	100	100
58.00	22.80	25.71
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:37 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0834.D

(9) Acrolein
 5.53min 12.46ppb m
 response 8427

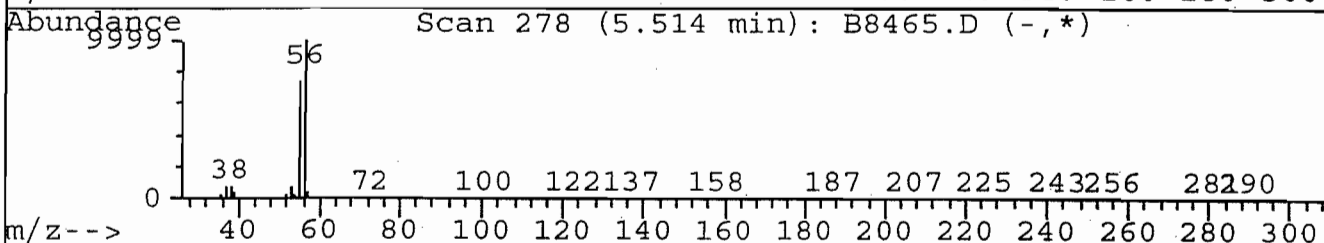
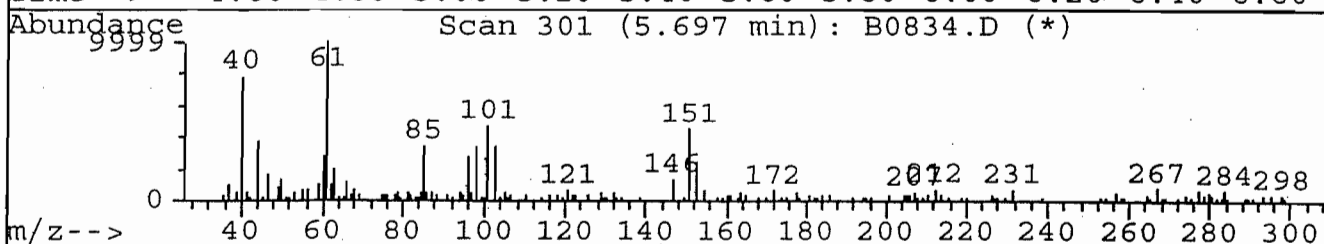
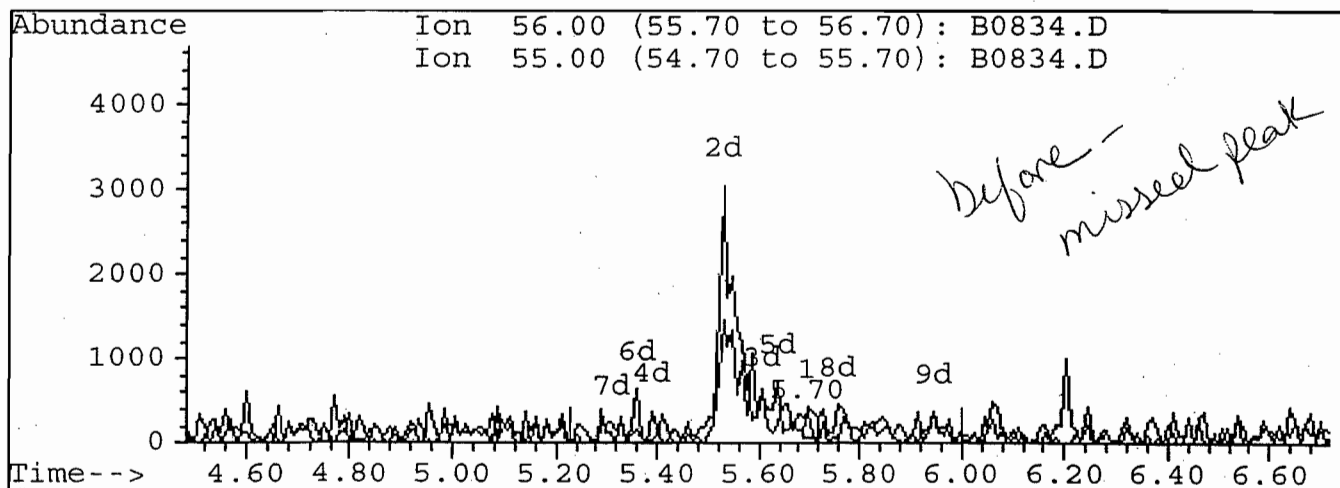
Ion	Exp%	Act%
56.00	100	100
55.00	76.00	47.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:36 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0834.D

(9) Acrolein

5.70min 0.81ppb

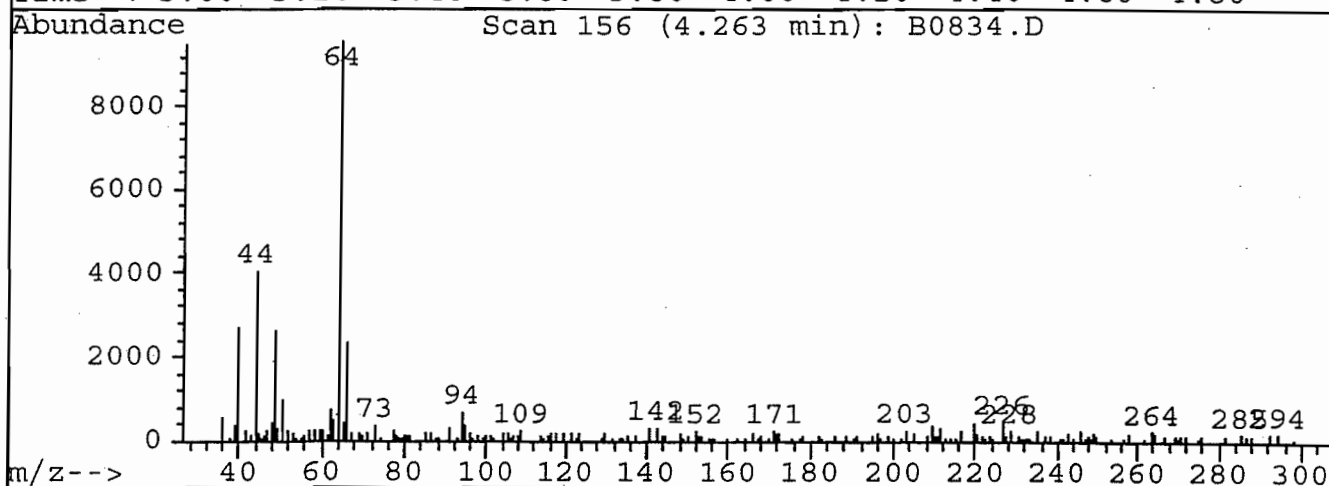
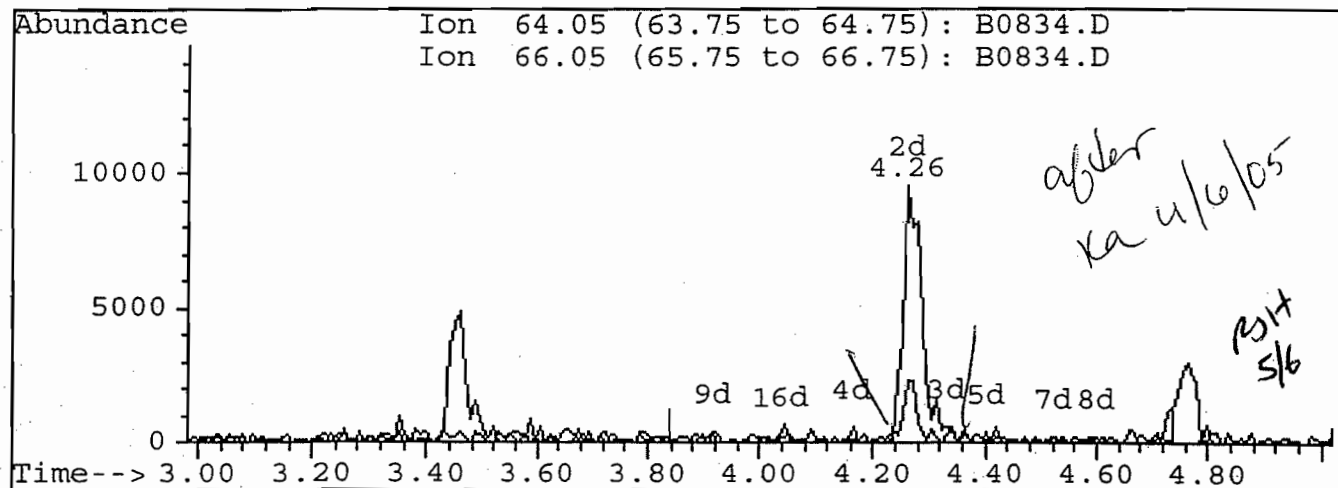
response 547

Ion	Exp%	Act%
56.00	100	100
55.00	76.00	83.68
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
Acq On : 6 Apr 105 11:53 am
Sample : 5 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:35 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration



TIC: B0834.D

(6) Chloroethane

4.26min 4.59ppb m

response 23081

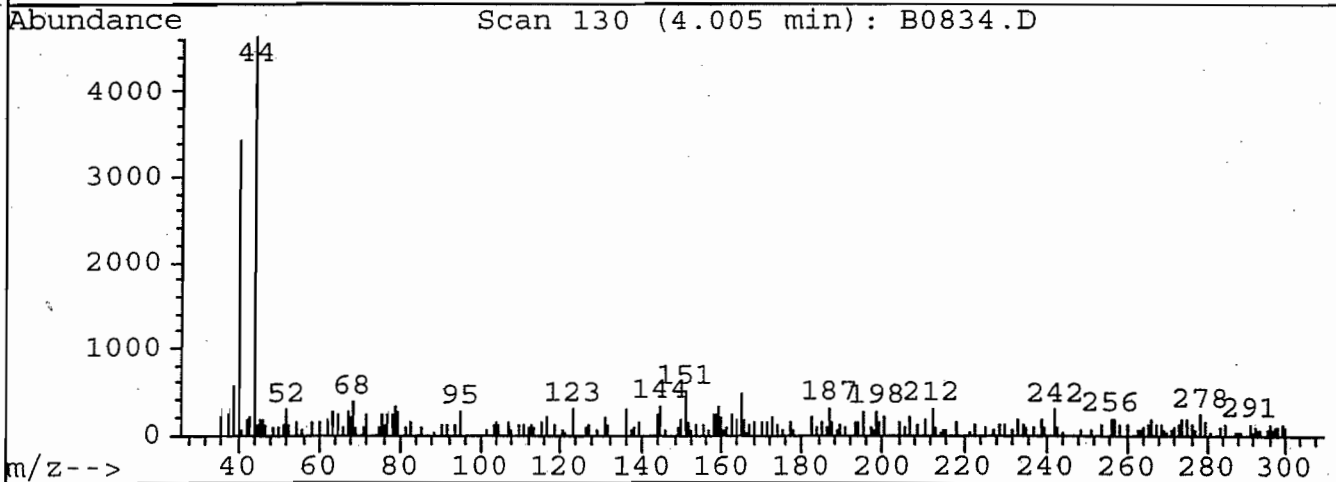
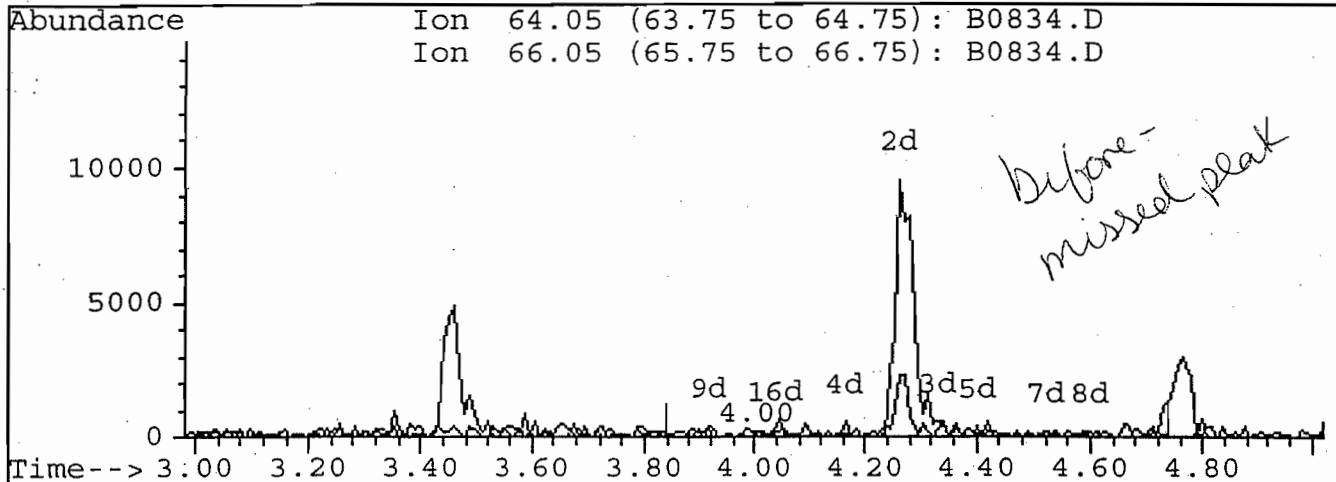
Ion	Exp%	Act%
64.05	100	100
66.05	34.70	24.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:35 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration



TIC: B0834.D

(6) Chloroethane

4.00min 0.04ppb

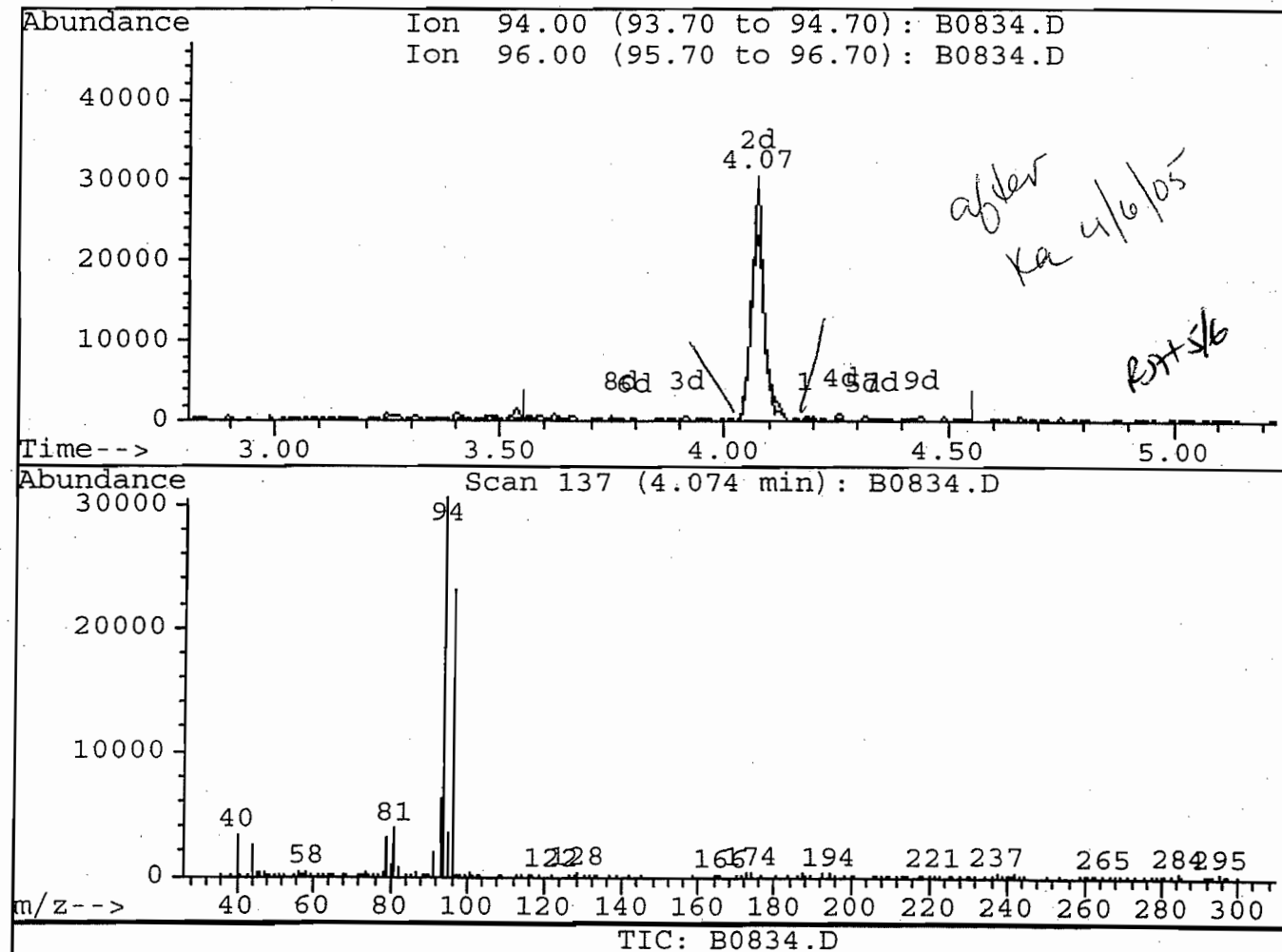
response 222

Ion	Exp%	Act%
64.05	100	100
66.05	34.70	32.78
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
Acq On : 6 Apr 105 11:53 am
Sample : 5 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 13:35 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration



(5) Bromomethane
4.07min 9.34ppb m
response 56904

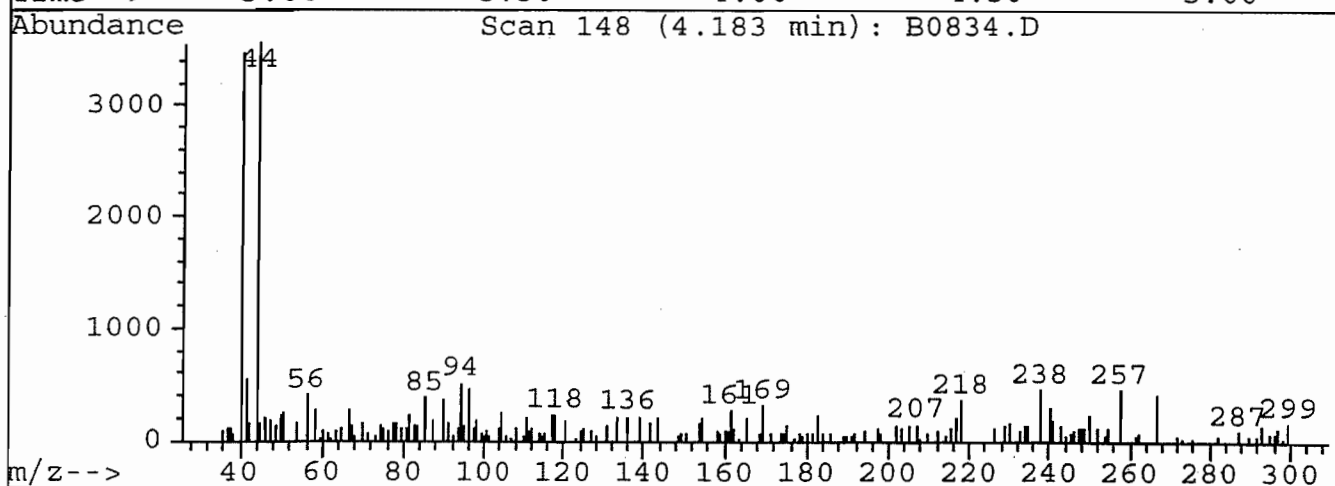
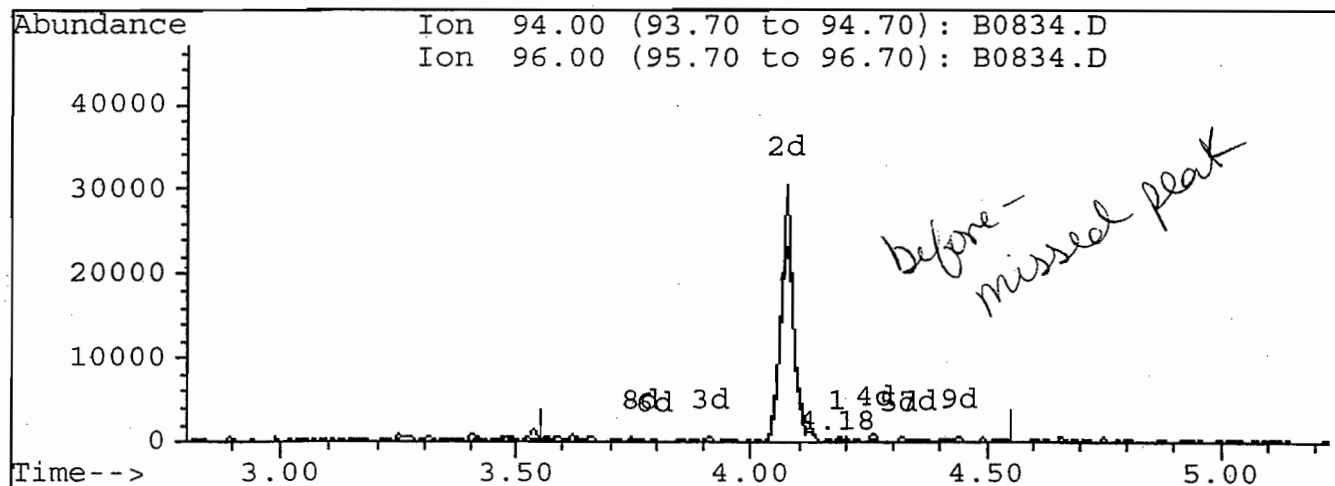
Ion	Exp%	Act%
94.00	100	100
96.00	103.90	75.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
Acq On : 6 Apr 105 11:53 am
Sample : 5 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 12:21 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration



TIC: B0834.D

(5) Bromomethane

4.18min 0.11ppb

response 678

Ion	Exp%	Act%
94.00	100	100
96.00	103.90	88.40
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:39 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
90) n-Butylbenzene	22.14	91	158704	5.76	ppb	# 93
91) 1,2-Dclbenz	22.24	146	82705	5.71	ppb	98
92) 1,2-Dibromo-3-chloropropan	23.85	157	5876	4.17	ppb	# 68
94) 1,2,4-Tcbenzene	25.57	180	43020	5.54	ppb	91
95) Hexachlorobt	25.92	225	18810	4.00	ppb	# 75
96) Naphthalen	26.12	128	89684	6.13	ppb	98
97) 1,2,3-Tclbenzene	26.67	180	36881	5.28	ppb	94

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0834.D
 Acq On : 6 Apr 105 11:53 am
 Sample : 5 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 13:39 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) 1,1-Dichloropropene	10.15	75	63017	5.82	ppb	# 89
40) Iso-Butyl Alcohol	10.27	43	38803	88.62	ppb	68
41) Benzene	10.52	78	190622	5.46	ppb	87
43) 1,2-Dichloroethane	10.54	62	79199	8.47	ppb	# 94
44) Trichloroethene	11.68	95	51889	5.76	ppb	89
46) 1,2-Dichloropropane	12.08	63	57732	5.76	ppb	# 74
47) Methyl Methacrylate	12.25	69	23107	4.55	ppb	79
48) Dibromomethane	12.30	93	32971	6.26	ppb	91
49) Bromodichloromethane	12.58	83	67450	6.28	ppb	98
50) 2-Nitropropane	12.96	41	17792	10.61	ppb	94
52) cis-1,3-Dichloropropene	13.41	75	85012	5.89	ppb	# 82
53) 4-Methyl-2-Pentanone	13.65	43	50944	4.72	ppb	# 88
54) Toluene	14.06	91	194583	5.13	ppb	91
55) trans-1,3-Dichloropropene	14.42	75	74605	6.21	ppb	95
56) Ethyl Methacrylate	14.57	69	57023	4.95	ppb	97
57) 1,1,2-Trichloroethane	14.79	83	37998	5.64	ppb	# 87
61) Tetrachloroethene	15.11	166	44112	5.21	ppb	94
62) 2-Hexanone	15.23	43	32027	4.79	ppb	88
63) 1,3-Dichloropropane	15.12	76	77147	6.64	ppb	86
64) Dibromochloromethane	15.57	129	50858	6.79	ppb	93
65) 1,2-Dibromoethane	15.80	107	46370	6.36	ppb	# 76
66) Chlorobenzene	16.76	112	143403	5.89	ppb	96
67) 1,1,1,2-Tetrachloroethane	16.91	131	47630	6.28	ppb	96
68) Ethylbenzene	16.96	91	232295	5.74	ppb	96
69) (m+p)Xylene	17.19	106	169069	10.89	ppb	98
70) o-Xylene	17.99	106	80915	5.21	ppb	96
71) Styrene	18.00	104	142332	5.74	ppb	93
72) Bromoform	18.39	173	25064	5.22	ppb	88
73) Isopropylbenzene	18.71	105	205776	5.13	ppb	98
74) Cyclohexanone	18.90	55	128387	89.35	ppb	98
76) 1,1,2,2-Tetrachloroethane	19.27	83	59893	7.03	ppb	# 90
77) 1,2,3-Trichloropropane	19.38	110	14692	7.55	ppb	# 75
78) Trans-1,4-Dichloro-2-Buten	19.40	53	11507	7.14	ppb	82
79) n-Propylbenzene	19.53	91	260477	6.33	ppb	95
80) Bromobenzene	19.36	156	52783	6.59	ppb	98
81) 1,3,5-Trimethylbenzene	19.88	105	168744	6.64	ppb	96
82) 2-Chlorotoluene	19.75	91	167462	7.10	ppb	97
83) 4-Chlorotoluene	19.96	91	169720	6.99	ppb	99
84) tert-Butylbenzene	20.57	119	135068	5.78	ppb	99
85) 1,2,4-Trimethylbenzene	20.66	105	171999	6.91	ppb	# 84
86) sec-Butylbenzene	21.01	105	212177	5.71	ppb	99
87) p-Isopropyltoluene	21.30	119	169711	5.87	ppb	94
88) 1,3-Dichlorobenz	21.28	146	93718	6.15	ppb	97
89) 1,4-Dichlorobenz	21.45	146	91758	6.01	ppb	90

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

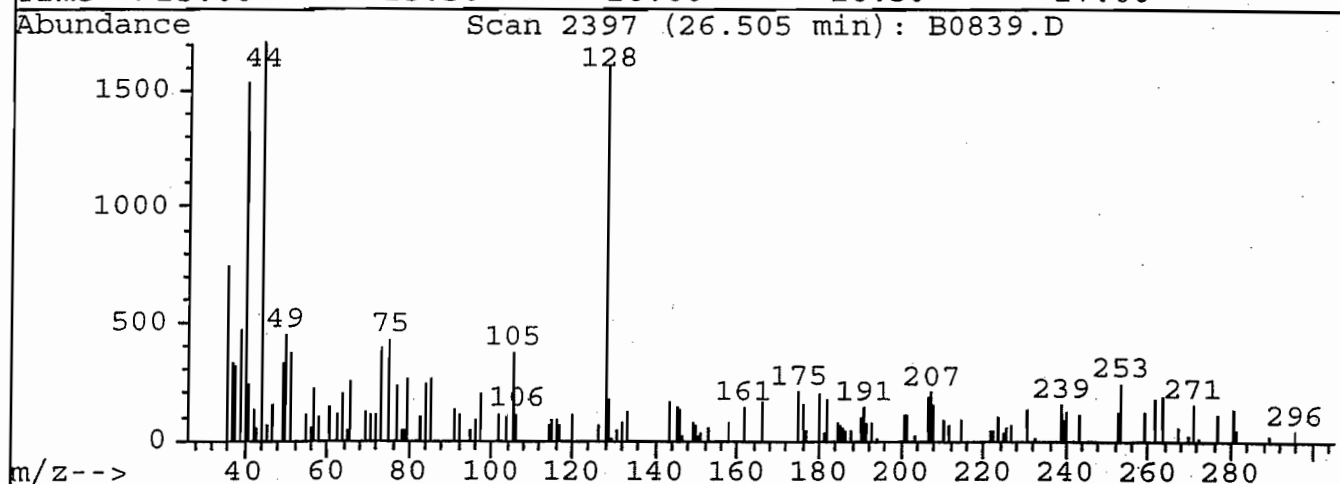
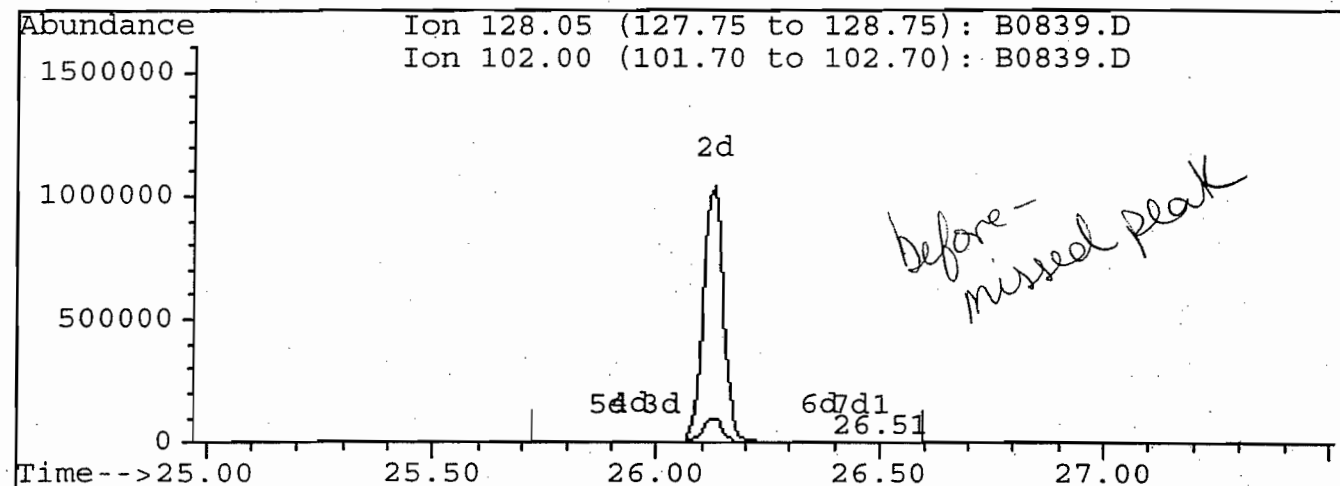
B0834.D SOIL0406.M Wed Apr 06 13:40:33 2005

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D
Acq On : 6 Apr 105 2:49 pm
Sample : 150 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 15:27 19105

Vial: 41
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 14:11:59 2005
Response via : Multiple Level Calibration



TIC: B0839.D

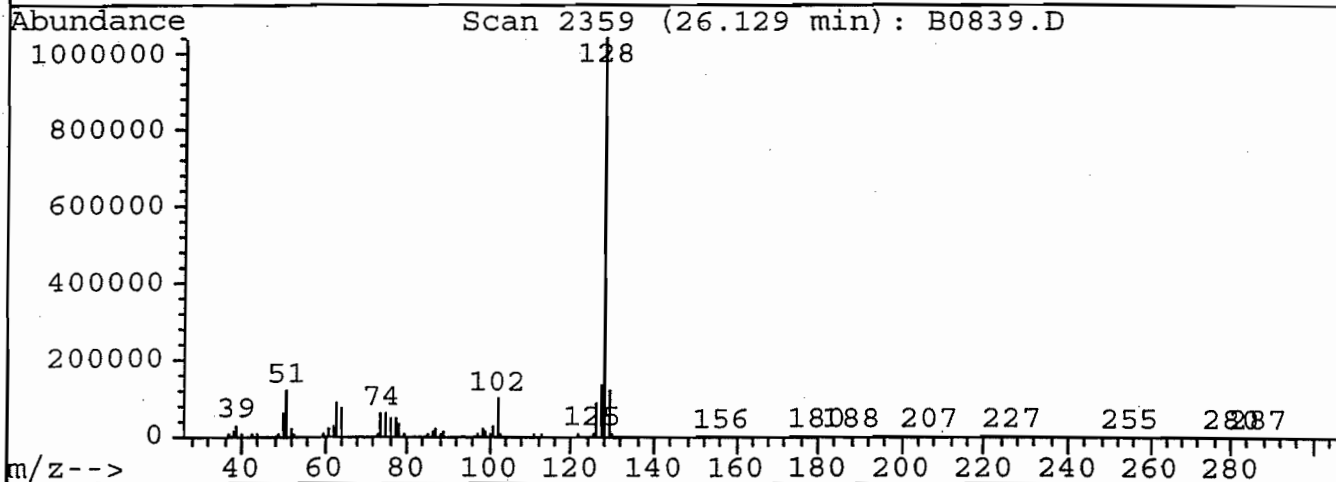
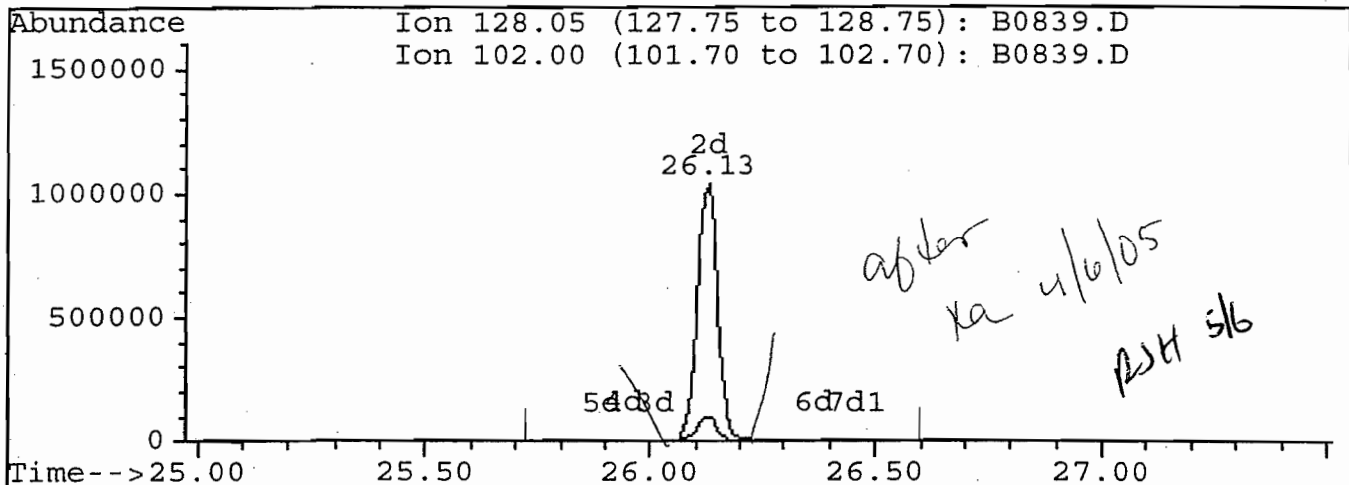
(96) Naphthalen
26.51min 0.14ppb
response 2176

Ion	Exp%	Act%
128.05	100	100
102.00	7.40	6.02
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0839.D
Acq On : 6 Apr 105 2:49 pm
Sample : 150 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 15:27 19105

Vial: 41
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 14:11:59 2005
Response via : Multiple Level Calibration



TIC: B0839.D

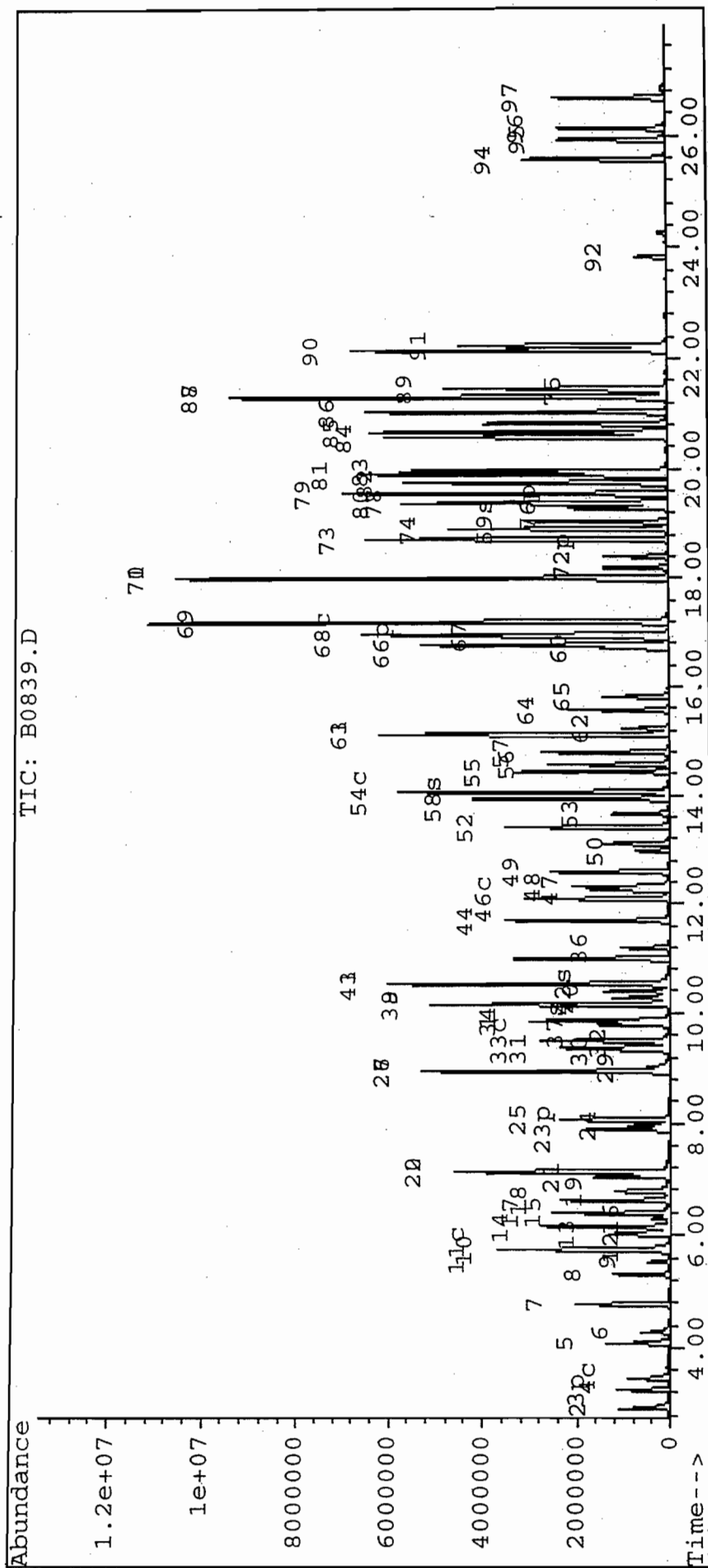
(96) Naphthalen
26.13min 208.26ppb m
response 3306564

Ion	Exp%	Act%
128.05	100	100
102.00	7.40	9.29
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA5\DATA\040605\B0839.D
 Acq On : 6 Apr 105 2:49 pm
 Sample : 150 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 15:28 19105

Vial: 41
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 14:46:50 2005
 Response via : Multiple Level Calibration



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Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0840.D
 Acq On : 6 Apr 105 3:24 pm
 Sample : 200 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 15:53 19105

Vial: 42
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

ka 4/6/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.86	168	779898	50.00	ppb	0.03
36) 1,4-Difluorobenzene	11.19	114	1343754	50.00	ppb	0.04
60) d5-Chlorobenze	16.71	117	1305893	50.00	ppb	0.04
75) d4-1,4-Dichlorobenzene	21.41	152	558917	50.00	ppb	0.04

System Monitoring Compounds						%Recovery
37) surr4, Dibrflmethane	9.79	113	1822747	191.02	ppb	382.03%
42) surr1, 1,2-Diclethane	10.40	65	1714218	224.28	ppb	448.56%
58) surr3, Toluene-d8	13.93	98	5431265	155.08	ppb	310.17%
59) surr2, bfb	19.04	95	2225141	140.34	ppb	280.68%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.91	85	2461014	261.77	ppb	98
3) Chloromethane	3.25	50	2375320	194.06	ppb	100
4) Vinyl Chloride	3.45	62	1778254	199.95	ppb	97
5) Bromomethane	4.07	94	1929559	275.24	ppb	94
6) Chloroethane	4.27	64	1146045	197.98	ppb	98
7) Trichlorofluoromethane	4.76	101	3475147	283.66	ppb	97
8) Diethyl Ether	5.30	59	1280112	213.22	ppb	95
9) Acrolein	5.51	56	845049	1086.31	ppb	92
10) FREON 113	5.74	85	887730	241.78	ppb	95
11) 1,1-Diclethene	5.73	96	1740250	257.09	ppb	97
12) Acetone	5.79	43	529655	219.72	ppb	94
13) Iodomethane	6.01	142	2817753	236.90	ppb	98
14) Carbon Disulfide	6.14	76	6950804	227.98	ppb	99
15) Methyl Acetate	6.42	43	395201	185.44	ppb	98
16) Acetonitrile	6.30	39	138333	1050.98	ppb	71
17) Allyl Chloride	6.39	76	972967	215.50	ppb	87
18) Methylene Chloride	6.62	84	2073516	217.75	ppb	87
19) TBA	6.78	59	4063550	4397.72	ppb	# 92
20) Methyl-t-Butyl Ether	7.12	73	4933932	237.96	ppb	# 92
21) Acrylonitrile	7.04	53	2752604	967.58	ppb	98
22) trans-1,2-Dichloroethene	7.13	96	2183384	241.72	ppb	89
23) 1,1-Diclethane	7.89	63	3895723	213.04	ppb	98
24) Vinyl Acetate	7.96	42	233234	251.38	ppb	94
25) 2-Chloro-1,3-butadiene	8.06	53	2923599	244.56	ppb	94
26) 2,2-Dichloropropane	8.94	77	3539816	279.38	ppb	94
27) 2-Butanone	8.93	43	884923	182.36	ppb	93
28) cis-1,2-Dichloroethene	8.93	96	2487081	234.86	ppb	93
29) Propionitrile	9.02	54	1113579	946.93	ppb	97
30) Methacrylonitrile	9.32	67	634463	205.81	ppb	77
31) Bromochloromethane	9.36	128	1213069	237.07	ppb	84
32) Tetrahydrofuran	9.45	42	478301	167.30	ppb	# 87
33) Chloroform	9.50	83	4271928	252.76	ppb	99

(#) = qualifier out of range (m) = manual integration
 B0840.D SOIL0406.M Wed Apr 06 15:53:09 2005

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Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0840.D
 Acq On : 6 Apr 105 3:24 pm
 Sample : 200 PPB
 Misc : 8260B SOIL CURVE
 Quant Time: Apr 6 15:53 19105

Vial: 42
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Feb 02 14:51:26 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) 1,1,1-Trichloroethane	9.86	97	3565897	275.76	ppb	# 68
35) Cyclohexane	9.85	56	19228	0.92	ppb	# 1
38) Carbontetrachloride	10.16	117	2977043	283.91	ppb	99
39) 1,1-Dichloropropene	10.15	75	3297620	267.88	ppb	96
40) Iso-Butyl Alcohol	10.27	43	1929302	3873.59	ppb	99
41) Benzene	10.53	78	8315087	209.54	ppb	97
43) 1,2-Dichloroethane	10.53	62	2943569	276.64	ppb	# 94
44) Trichloroethene	11.68	95	2676863	261.04	ppb	94
45) Methyl Cyclohexane	12.09	83	18423	1.00	ppb	# 14
46) 1,2-Dichloropropane	12.09	63	2395421	210.19	ppb	97
47) Methyl Methacrylate	12.25	69	1272476	220.29	ppb	94
48) Dibromomethane	12.31	93	1669956	278.84	ppb	96
49) Bromodichloromethane	12.58	83	3459114	283.09	ppb	93
50) 2-Nitropropane	12.98	41	1122817	588.56	ppb	90
52) cis-1,3-Dichloropropene	13.40	75	4140053	252.13	ppb	98
53) 4-Methyl-2-Pentanone	13.66	43	2350584	191.56	ppb	91
54) Toluene	14.06	91	9368806	217.30	ppb	96
55) trans-1,3-Dichloropropene	14.43	75	3660138	267.71	ppb	96
56) Ethyl Methacrylate	14.57	69	2762751	210.76	ppb	92
57) 1,1,2-Trichloroethane	14.79	83	1800007	234.72	ppb	97
61) Tetrachloroethene	15.12	166	2371123	251.58	ppb	96
62) 2-Hexanone	15.23	43	1728063	231.79	ppb	99
63) 1,3-Dichloropropane	15.12	76	3358282	259.30	ppb	93
64) Dibromochloromethane	15.57	129	2561413	306.85	ppb	99
65) 1,2-Dibromoethane	15.81	107	2285528	281.28	ppb	96
66) Chlorobenzene	16.76	112	6246522	230.48	ppb	93
67) 1,1,1,2-Tetrachloroethane	16.91	131	2305738	273.00	ppb	95
68) Ethylbenzene	16.96	91	10791443	239.22	ppb	98
69) (m+p)Xylene	17.19	106	8040681	464.80	ppb	94
70) o-Xylene	17.98	106	4080654	235.70	ppb	97
71) Styrene	18.00	104	6859885	248.51	ppb	87
72) Bromoform	18.40	173	1425936	266.57	ppb	98
73) Isopropylbenzene	18.71	105	10295539	230.19	ppb	99
74) Cyclohexanone	18.90	55	5177847	3234.81	ppb	97
76) 1,1,2,2-Tetrachloroethane	19.29	83	2754919	287.84	ppb	96
77) 1,2,3-Trichloropropane	19.40	110	669441	306.25	ppb	98
78) Trans-1,4-Dichloro-2-Buten	19.40	53	625977	345.74	ppb	97
79) n-Propylbenzene	19.55	91	12898707	278.80	ppb	98
80) Bromobenzene	19.37	156	2541070	282.41	ppb	100
81) 1,3,5-Trimethylbenzene	19.89	105	8417758	294.54	ppb	98
82) 2-Chlorotoluene	19.74	91	7748339	292.19	ppb	99
83) 4-Chlorotoluene	19.96	91	7897661	289.39	ppb	98
84) tert-Butylbenzene	20.57	119	7214729	274.72	ppb	88
85) 1,2,4-Trimethylbenzene	20.67	105	8266082	295.35	ppb	98

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

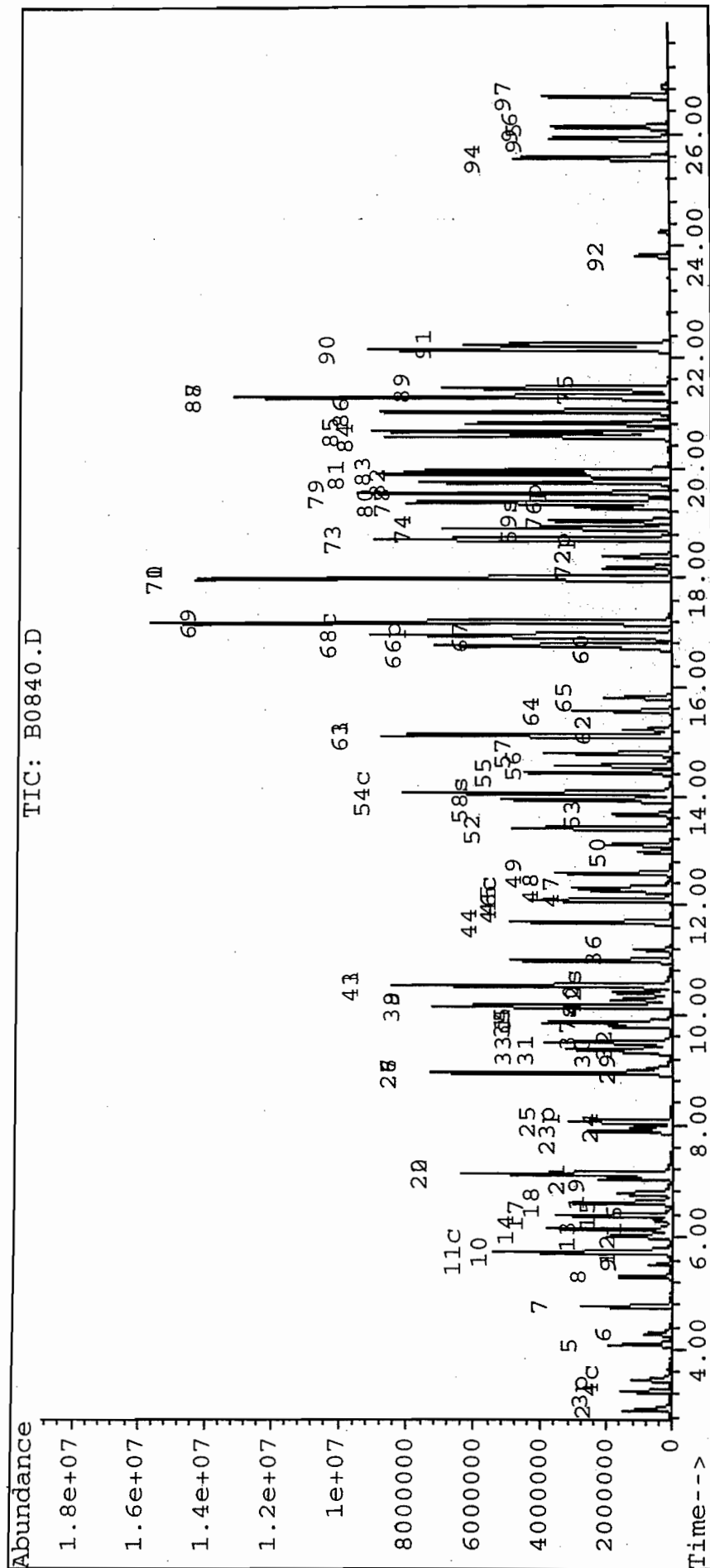
Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0840.D
Acq On : 6 Apr 105 3:24 pm
Sample : 200 PPB
Misc : 8260B SOIL CURVE
Quant Time: Apr 6 15:53 19105

Vial: 42
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) sec-Butylbenzene	21.02	105	11095923	265.54	ppb	98
87) p-Isopropyltoluene	21.30	119	8985296	276.60	ppb #	94
88) 1,3-Dclbenz	21.28	146	4511454	263.55	ppb	98
89) 1,4-Dclbenz	21.46	146	4378100	255.24	ppb	96
90) n-Butylbenzene	22.16	91	9300043	300.37	ppb	97
91) 1,2-Dclbenz	22.24	146	4073677	250.17	ppb	97
92) 1,2-Dibromo-3-chloropropan	23.84	157	422646	266.55	ppb #	76
94) 1,2,4-Tcbenzene	25.57	180	2371133	271.90	ppb	94
95) Hexachlorobt	25.93	225	1129864	213.67	ppb	95
96) Naphthalen	26.13	128	5104233	310.39	ppb #	95
97) 1,2,3-Tclbenzene	26.68	180	2120683	270.01	ppb	97


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Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260v0a
Last Update : Wed Feb 02 14:51:26 2005
Response via : Multiple Level Calibration
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B0840.D SOIL0406.M

Wed Apr 06 15:53:16 2005

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D
Acq On : 21 Apr 105 3:11 pm
Sample : CCV
Misc :

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration

12/21/05

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Pentafluorobenzene	1.000	1.000	0.0	87	0.00
2	Dichlorodifluoromethane	0.759	0.653	13.9	72	0.00
3 p	Chloromethane	0.781	0.775	0.8	85	0.00
4 c	Vinyl Chloride	0.576	0.584	-1.3	87	0.00
5	Bromomethane	0.716	0.674	6.0	87	0.00
6	Chloroethane	0.376	0.413	-9.7	94	0.00
7	Trichlorofluoromethane	1.093	1.071	2.0	84	0.00
8	Diethyl Ether	0.432	0.438	-1.5	83	0.00
9	Acrolein	0.044	0.035	21.2	74	0.00
10	FREON 113	0.287	0.279	2.8	87	0.00
11 c	1,1-Dicethene	0.528	0.561	-6.3	87	0.00
12	Acetone	0.169	0.157	7.1	75	-0.02
13	Iodomethane	0.645	0.706	-9.4	118	0.00
14	Carbon Disulfide	2.251	2.341	-4.0	89	0.00
15	Methyl Acetate	0.140	0.159	-13.7	103	-0.01
16	Acetonitrile	0.010	0.010	-2.7	90	-0.03
17	Allyl Chloride	0.296	0.319	-7.7	90	0.00
18	Methylene Chloride	0.686	0.690	-0.6	84	0.00
19	TBA	0.066	0.055	16.9	64	-0.01
20	Methyl-t-Butyl Ether	1.648	1.561	5.3	78	0.00
21	Acrylonitrile	0.181	0.168	6.9	73	-0.01
22	trans-1,2-Dichloroethene	0.671	0.669	0.3	85	0.00
23 p	1,1-Dicethane	1.293	1.351	-4.5	90	0.00
24	Vinyl Acetate	0.079	0.061	22.7	69	-0.02
25	2-Chloro-1,3-butadiene	0.962	0.999	-3.8	86	0.00
26	2,2-Dichloropropane	1.142	1.150	-0.8	87	0.00
27	2-Butanone	0.313	0.291	6.9	86	-0.02
28	cis-1,2-Dichloroethene	0.801	0.824	-2.8	87	0.00
29	Propionitrile	0.072	0.064	11.8	70	0.00
30	Methacrylonitrile	0.207	0.179	13.5	71	0.00
31	Bromochloromethane	0.378	0.365	3.6	78	0.00
32	Tetrahydrofuran	0.177	0.148	16.4	71	-0.02
33 c	Chloroform	1.424	1.456	-2.3	86	0.00
34	1,1,1-Trichloroethane	1.128	1.141	-1.1	90	0.00
35	Cyclohexane	0.000	0.025	0.0	0#	0.01
36	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
37 s	surr4,Dibrflmethane	0.440	0.395	10.3	85	0.00
38	Carbontetrachloride	0.549	0.539	1.8	84	0.00
39	1,1-Dichloropropene	0.620	0.637	-2.8	89	0.00
40	Iso-Butyl Alcohol	0.019	0.017	7.7	74	-0.02
41	Benzene	1.636	1.632	0.2	86	0.00

(#) = Out of Range

B1042.D SOIL0406.M

Thu Apr 21 15:43:22 2005

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Page 1

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D

Vial: 36

Acq On : 21 Apr 105 3:11 pm

Operator: K.ARNOLD

Sample : CCV

Inst : 5971 - In

Misc :

Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M

Title : 8260voa

Last Update : Wed Apr 06 16:36:00 2005

Response via : Multiple Level Calibration

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

Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42 s	surr1,1,2-Dicethane	0.420	0.370	12.0	83	0.00
3	1,2-Dichloroethane	0.613	0.595	2.9	81	0.00
4	Trichloroethene	0.491	0.490	0.2	86	0.00
45	Methyl Cyclohexane	0.000	0.000	0.0	0#	-12.10#
46 c	1,2-Dicpropane	0.472	0.480	-1.7	86	-0.01
7	Methyl Methacrylate	0.235	0.217	7.3	75	0.00
48	Dibromomethane	0.312	0.303	2.8	83	0.00
49	Bromodichloromethane	0.654	0.649	0.7	83	0.00
0	2-Nitropropane	0.103	0.095	7.1	72	0.00
1	2-Chloroethylvinyl Ether	0.000	0.000	0.0	81	0.00
52	cis-1,3-Dichloropropene	0.779	0.772	0.9	82	0.00
53	4-Methyl-2-Pentanone	0.483	0.444	8.1	74	0.00
4 c	Toluene	1.791	1.782	0.5	86	0.00
55	trans-1,3-Dichloropropene	0.687	0.679	1.1	81	0.00
56	Ethyl Methacrylate	0.530	0.488	7.9	76	0.00
7	1,1,2-Trichloroethane	0.340	0.326	4.0	79	0.00
8 s	surr3,Toluene-d8	1.358	1.270	6.5	88	0.00
59 s	surr2,bfb	0.563	0.541	3.9	87	0.00
0	d5-Chlorobenze	1.000	1.000	0.0	83	0.00
61	Tetrachloroethene	0.436	0.423	2.9	83	0.00
62	2-Hexanone	0.331	0.316	4.5	73	0.00
3	1,3-Dichloropropene	0.673	0.664	1.4	81	0.00
64	Dibromochloromethane	0.470	0.448	4.9	79	0.00
65	1,2-Dibromoethane	0.427	0.393	7.9	77	0.00
6 p	Chlorobenzene	1.209	1.221	-1.0	86	0.00
7	1,1,1,2-Tetrachloroethane	0.430	0.423	1.8	82	0.00
68 c	Ethylbenzene	2.118	2.107	0.5	85	0.00
69	(m+p)Xylene	0.785	0.784	0.2	85	0.00
0	o-Xylene	0.773	0.768	0.7	84	0.00
71	Styrene	1.314	1.307	0.6	83	0.00
72 p	Bromoform	0.253	0.239	5.4	75	0.00
3	Isopropylbenzene	2.000	1.952	2.4	84	0.00
4	Cyclohexanone	0.054	0.044	19.3	66	0.00
5	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	88	0.00
6 p	1,1,2,2-Tetrachloroethane	1.258	1.088	13.5	73	0.00
77	1,2,3-Trichloropropene	0.303	0.272	10.1	76	0.00
78	Trans-1,4-Dichloro-2-Butene	0.274	0.244	10.9	72	0.00
79	n-Propylbenzene	5.907	5.574	5.6	83	0.00
80	Bromobenzene	1.103	1.009	8.6	80	0.00
81	1,3,5-Trimethylbenzene	3.775	3.488	7.6	83	0.00

(#)= Out of Range

B1042.D SOIL0406.M

Thu Apr 21 15:43:27 2005

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Page 2

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D
Acq On : 21 Apr 105 3:11 pm
Sample : CCV
Misc :

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	2-Chlorotoluene	3.513	3.298	6.1	84	0.00
83	4-Chlorotoluene	3.584	3.369	6.0	82	0.00
84	tert-Butylbenzene	3.117	2.864	8.1	82	0.00
85	1,2,4-Trimethylbenzene	3.710	3.453	6.9	82	0.00
86	sec-Butylbenzene	4.950	4.614	6.8	83	0.00
87	p-Isopropyltoluene	3.937	3.497	11.2	79	0.00
88	1,3-Dclbenz	1.985	1.800	9.3	80	0.00
89	1,4-Dclbenz	1.951	1.798	7.8	82	0.00
90	n-Butylbenzene	4.029	3.741	7.1	81	0.00
91	1,2-Dclbenz	1.803	1.640	9.1	81	0.00
92	1,2-Dibromo-3-chloropropane	0.164	0.142	13.9	71	0.00
93	Nitrobenzene	0.000	0.000	0.0	84	0.00
94	1,2,4-Tcbenzene	0.997	0.831	16.6	76	0.00
95	Hexachlorobt	0.475	0.424	10.7	78	0.00
96	Naphthalen	2.092	1.532	26.7#	63	0.00
97	1,2,3-Tclbenzene	0.883	0.717	18.8	72	0.00
98	TOTAL XYLENE	0.000	0.000	0.0	0#	-1.51#

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D
 Acq On : 21 Apr 105 3:11 pm
 Sample : CCV
 Misc :
 Quant Time: Apr 21 15:39 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Ka 4/21/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.84	168	609155	50.00	ppb	0.00
36) 1,4-Difluorobenzene	11.18	114	1046047	50.00	ppb	0.00
60) d5-Chlorobenze	16.70	117	1033855	50.00	ppb	0.00
75) d4-1,4-Dichlorobenzene	21.40	152	463966	50.00	ppb	0.00

System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.79	113	412971	44.83	ppb	89.66%
42) surr1,1,2-Diclethane	10.40	65	386649	44.02	ppb	88.04%
58) surr3,Toluene-d8	13.92	98	1328143	46.73	ppb	93.46%
59) surr2,bfb	19.03	95	566118	48.04	ppb	96.08%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.91	85	398012	43.05	ppb	97
3) Chloromethane	3.24	50	471893	49.59	ppb	94
4) Vinyl Chloride	3.44	62	355457	50.65	ppb	96
5) Bromomethane	4.07	94	410326	51.52	ppb	96
6) Chloroethane	4.27	64	251606	54.86	ppb	96
7) Trichlorofluoromethane	4.76	101	652659	49.02	ppb	96
8) Diethyl Ether	5.29	59	266952	50.77	ppb	90
9) Acrolein	5.52	56	105393	198.13	ppb	96
10) FREON 113	5.72	85	169981	48.59	ppb	98
11) 1,1-Diclethene	5.72	96	341795	53.15	ppb	88
12) Acetone	5.80	43	95463	46.43	ppb	97
13) Iodomethane	6.00	142	430152	55.13	ppb	92
14) Carbon Disulfide	6.14	76	1426074	51.99	ppb	98
15) Methyl Acetate	6.41	43	96922	56.86	ppb	92
16) Acetonitrile	6.21 6.38	393 323	530011 4486.58	4486.58	ppb	# 250.69 1 m (Ka)
17) Allyl Chloride	6.39	76	194390	53.87	ppb	99
18) Methylene Chloride	6.61	84	420235	50.31	ppb	98
19) TBA	6.77	59	668385	830.57	ppb	94
20) Methyl-t-Butyl Ether	7.11	73	950952	47.36	ppb	95
21) Acrylonitrile	7.03	53	512699	232.67	ppb	99
22) trans-1,2-Dichloroethene	7.13	96	407510	49.84	ppb	95
23) 1,1-Diclethane	7.88	63	822850	52.25	ppb	97
24) Vinyl Acetate	7.95	42	36979	38.65	ppb	97
25) 2-Chloro-1,3-butadiene	8.05	53	608499	51.91	ppb	93
26) 2,2-Dichloropropane	8.93	77	700636	50.38	ppb	99
27) 2-Butanone	8.93	43	177292	46.56	ppb	# 88
28) cis-1,2-Dichloroethene	8.93	96	501879	51.40	ppb	92
29) Propionitrile	9.02	54	193946	220.53	ppb	# 90
30) Methacrylonitrile	9.31	67	109281	43.25	ppb	73
31) Bromochloromethane	9.36	128	222062	48.20	ppb	86
32) Tetrahydrofuran	9.45	42	90006	42.88	ppb	# 86
33) Chloroform	9.50	83	886968	51.14	ppb	97

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

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D
 Acq On : 21 Apr 105 3:11 pm
 Sample : CCV
 Misc :
 Quant Time: Apr 21 15:39 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) 1,1,1-Trichloroethane	9.84	97	694859	50.56	ppb	89
38) Carbontetrachloride	10.16	117	563784	49.11	ppb	95
39) 1,1-Dichloropropene	10.14	75	666766	51.38	ppb	98
40) Iso-Butyl Alcohol	10.26	43	362522	922.61	ppb	98
41) Benzene	10.52	78	1707607	49.88	ppb	96
43) 1,2-Dichloroethane	10.53	62	622749	48.57	ppb	# 96
44) Trichloroethene	11.68	95	512522	49.88	ppb	95
46) 1,2-Dicloropropane	12.08	63	501921	50.85	ppb	95
47) Methyl Methacrylate	12.25	69	227507	46.34	ppb	89
48) Dibromomethane	12.30	93	317188	48.59	ppb	97
49) Bromodichloromethane	12.58	83	679047	49.64	ppb	99
50) 2-Nitropropane	12.96	41	199578	92.95	ppb	90
52) cis-1,3-Dichloropropene	13.40	75	807895	49.57	ppb	99
53) 4-Methyl-2-Pentanone	13.65	43	464617	45.95	ppb	98
54) Toluene	14.05	91	1863858	49.75	ppb	97
55) trans-1,3-Dichloropropene	14.42	75	710189	49.43	ppb	99
56) Ethyl Methacrylate	14.56	69	510729	46.04	ppb	88
57) 1,1,2-Trichloroethane	14.78	83	341116	47.98	ppb	95
61) Tetrachloroethene	15.11	166	437813	48.53	ppb	97
62) 2-Hexanone	15.23	43	326972	47.74	ppb	86
63) 1,3-Dichloropropane	15.11	76	686555	49.31	ppb	96
64) Dibromochloromethane	15.56	129	462723	47.57	ppb	96
65) 1,2-Dibromoethane	15.80	107	406764	46.06	ppb	100
66) Chlorobenzene	16.76	112	1262751	50.51	ppb	97
67) 1,1,1,2-Tetrachloroethane	16.90	131	436910	49.12	ppb	96
68) Ethylbenzene	16.95	91	2178077	49.74	ppb	98
69) (m+p)Xylene	17.18	106	1620140	99.78	ppb	95
70) o-Xylene	17.98	106	793552	49.64	ppb	95
71) Styrene	18.00	104	1350988	49.71	ppb	95
72) Bromoform	18.39	173	247113	47.29	ppb	98
73) Isopropylbenzene	18.70	105	2018473	48.82	ppb	98
74) Cyclohexanone	18.89	55	903515	806.54	ppb	96
76) 1,1,2,2-Tetrachloroethane	19.28	83	504891	43.27	ppb	96
77) 1,2,3-Trichloropropane	19.38	110	126410	44.97	ppb	92
78) Trans-1,4-Dichloro-2-Buten	19.38	53	113336	44.54	ppb	97
79) n-Propylbenzene	19.54	91	2586136	47.18	ppb	98
80) Bromobenzene	19.35	156	468085	45.71	ppb	93
81) 1,3,5-Trimethylbenzene	19.89	105	1618517	46.20	ppb	99
82) 2-Chlorotoluene	19.74	91	1530332	46.95	ppb	99
83) 4-Chlorotoluene	19.96	91	1563115	47.01	ppb	99
84) tert-Butylbenzene	20.56	119	1328686	45.94	ppb	99
85) 1,2,4-Trimethylbenzene	20.66	105	1602086	46.54	ppb	96
86) sec-Butylbenzene	21.01	105	2140915	46.61	ppb	96
87) p-Isopropyltoluene	21.30	119	1622359	44.41	ppb	87

129

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D
Acq On : 21 Apr 105 3:11 pm
Sample : CCV
Misc :
Quant Time: Apr 21 15:39 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) 1,3-Dclbenz	21.27	146	835281	45.34	ppb	99
89) 1,4-Dclbenz	21.45	146	834191	46.09	ppb	98
90) n-Butylbenzene	22.14	91	1735791	46.43	ppb	99
91) 1,2-Dclbenz	22.23	146	760714	45.47	ppb	98
92) 1,2-Dibromo-3-chloropropan	23.83	157	65692	43.07	ppb #	84
94) 1,2,4-Tclbenzene	25.57	180	385541	41.68	ppb	95
95) Hexachlorobt	25.92	225	196868	44.67	ppb	99
96) Naphthalen	26.11	128	710922	36.63	ppb	100
97) 1,2,3-Tclbenzene	26.67	180	332602	40.61	ppb	95

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

B1042.D SOIL0406.M Thu Apr 21 15:39:43 2005

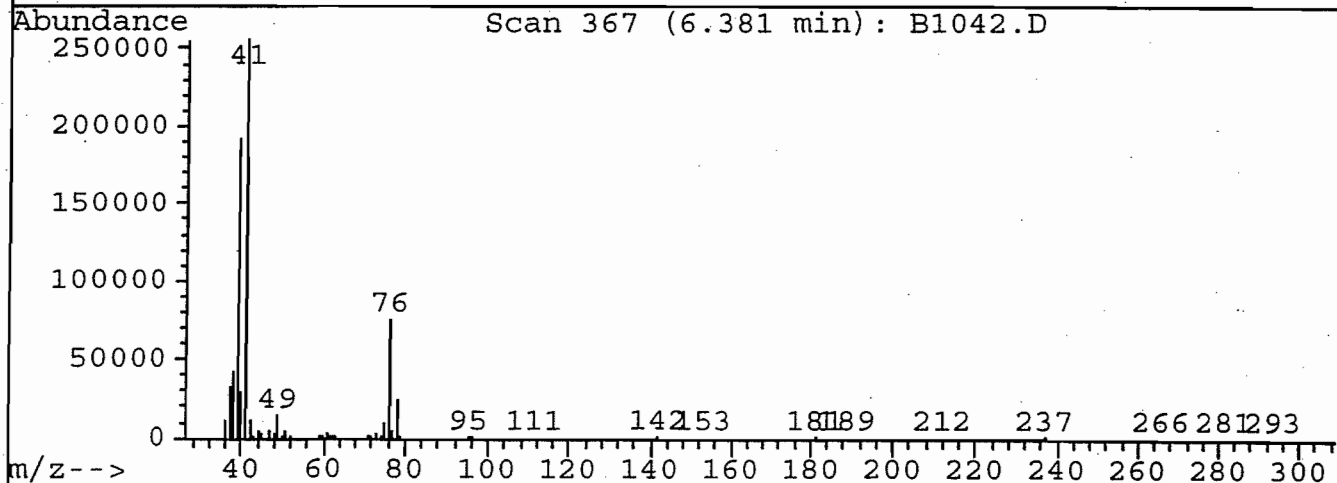
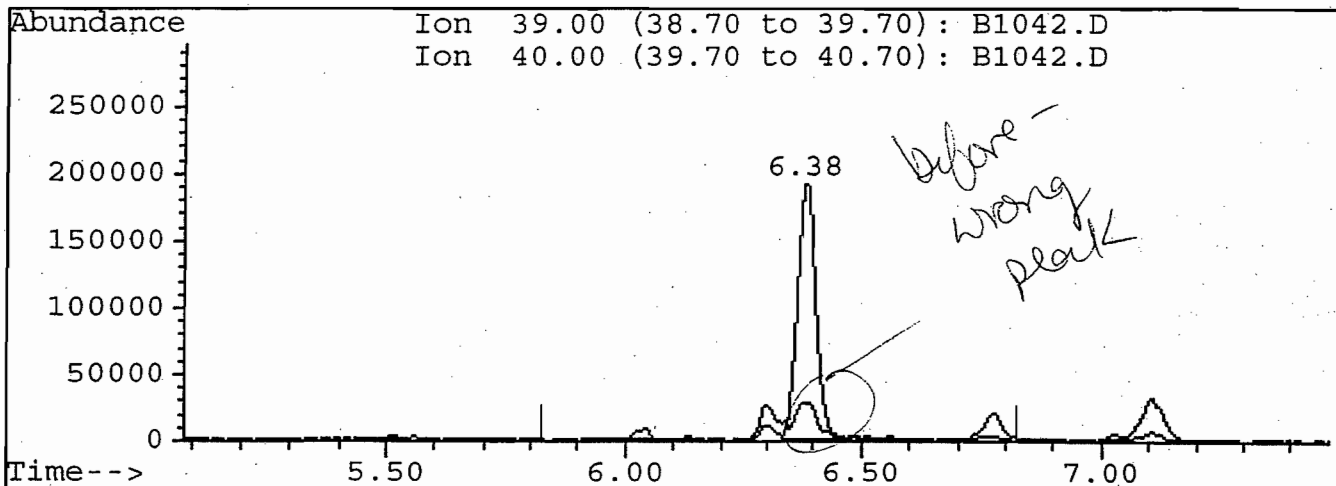
130

Page 3

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D
Acq On : 21 Apr 105 3:11 pm
Sample : CCV
Misc :
Quant Time: Apr 21 15:39 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1042.D

(16) Acetonitrile
6.38min 4486.58ppb
response 530011

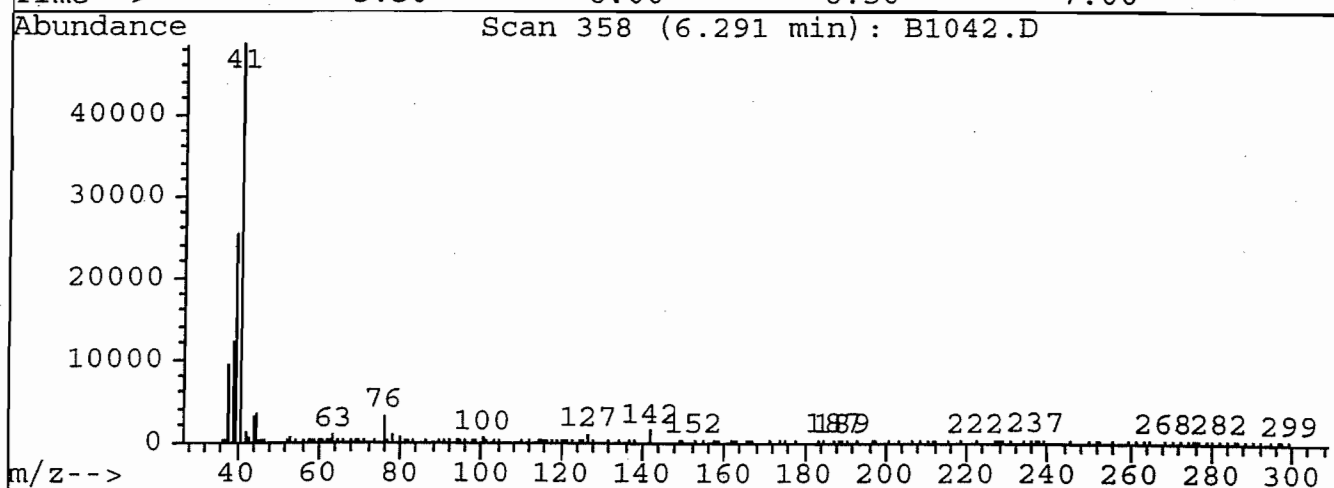
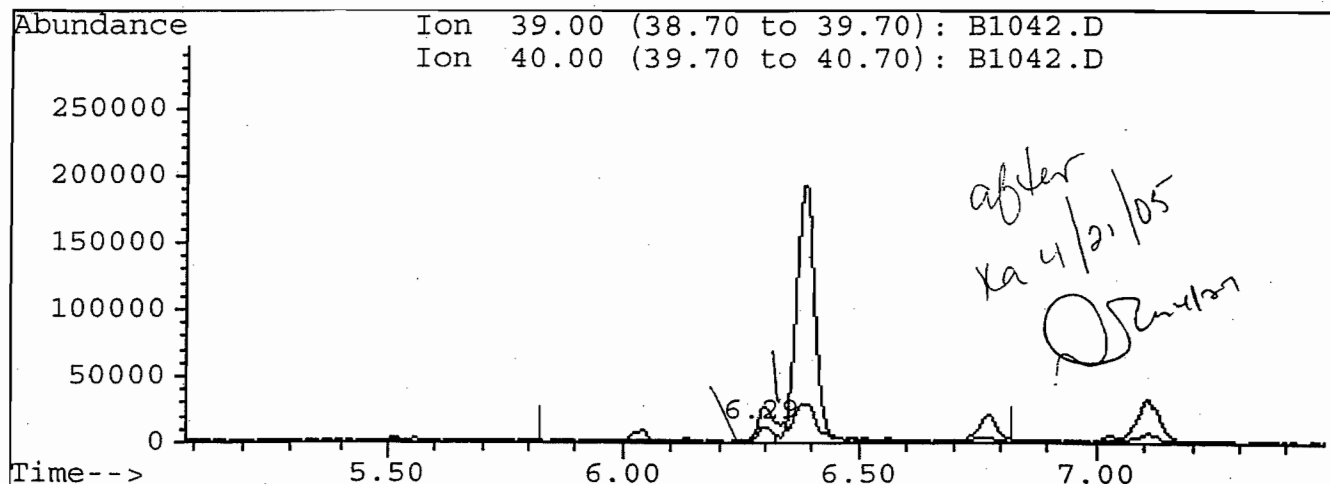
Ion	Exp%	Act%
39.00	100	100
40.00	222.30	14.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D
Acq On : 21 Apr 105 3:11 pm
Sample : CCV
Misc :
Quant Time: Apr 21 15:42 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1042.D

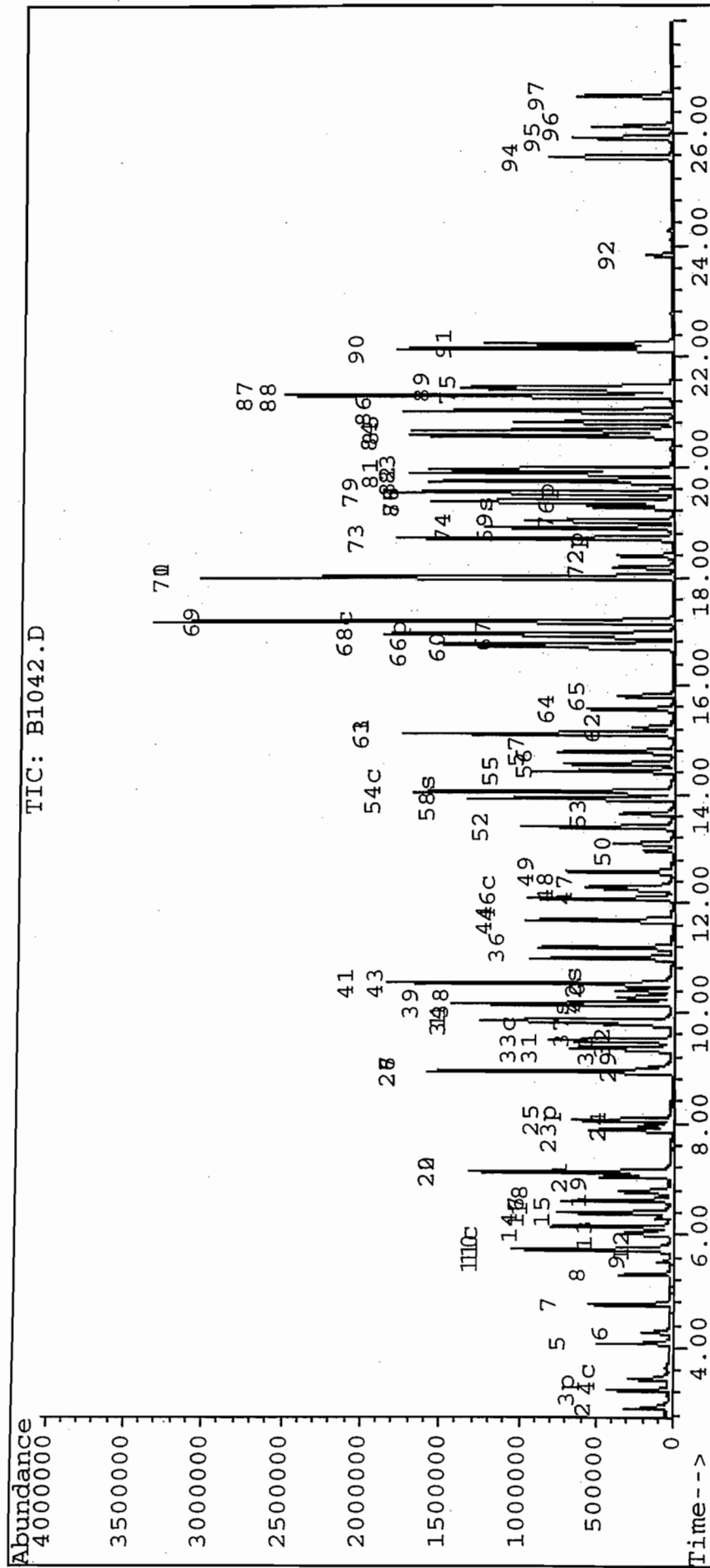
(16) Acetonitrile
6.29min 256.69ppb m
response 30323

Ion	Exp%	Act%
39.00	100	100
40.00	222.30	206.91
0.00	0.00	0.00
0.00	0.00	0.00

132

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1042.D Vial: 36
 Acq On : 21 Apr 105 3:11 pm Operator: K.ARNOLD
 Sample : CCV Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Apr 21 15:39 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



11333

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
 Acq On : 22 Apr 105 5:12 pm
 Sample : CCV
 Misc :

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

12/25/05

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Pentafluorobenzene	1.000	1.000	0.0	95	0.03
2	Dichlorodifluoromethane	0.759	0.652	14.0	79	0.01
3 p	Chloromethane	0.781	0.796	-1.9	96	0.00
4 c	Vinyl Chloride	0.576	0.617	-7.2	102	0.01
5	Bromomethane	0.716	0.620	13.4	88	0.03
6	Chloroethane	0.376	0.418	-11.0	104	0.02
7	Trichlorofluoromethane	1.093	1.077	1.4	93	0.02
8	Diethyl Ether	0.432	0.437	-1.3	91	0.02
9	Acrolein	0.044	0.034	22.4	80	0.02
10	FREON 113	0.287	0.284	1.1	97	0.03
11 c	1,1-Dicethene	0.528	0.535	-1.3	91	0.02
12	Acetone	0.169	0.172	-1.9	90	0.00
13	Iodomethane	0.645	0.799	-23.8	147	0.03
14	Carbon Disulfide	2.251	2.560	-13.7	107	0.04
15	Methyl Acetate	0.140	0.156	-11.8	111	0.03
16	Acetonitrile	0.010	0.009	2.2	94	0.00
17	Allyl Chloride	0.296	0.359	-21.3	111	0.03
18	Methylene Chloride	0.686	0.676	1.3	90	0.03
19	TBA	0.066	0.056	15.2	72	0.02
20	Methyl-t-Butyl Ether	1.648	1.536	6.8	84	0.03
21	Acrylonitrile	0.181	0.161	11.0	76	0.02
22	trans-1,2-Dichloroethene	0.671	0.690	-2.7	96	0.04
23 p	1,1-Dicethane	1.293	1.365	-5.6	100	0.03
24	Vinyl Acetate	0.079	0.073	7.7	90	0.01
25	2-Chloro-1,3-butadiene	0.962	1.151	-19.6	108	0.03
26	2,2-Dichloropropane	1.142	1.166	-2.2	97	0.03
27	2-Butanone	0.313	0.286	8.6	92	0.02
28	cis-1,2-Dichloroethene	0.801	0.822	-2.6	95	0.04
29	Propionitrile	0.072	0.064	10.9	78	0.03
30	Methacrylonitrile	0.207	0.181	12.9	78	0.05
31	Bromochloromethane	0.378	0.363	4.0	85	0.04
32	Tetrahydrofuran	0.177	0.149	15.8	78	0.02
33 c	Chloroform	1.424	1.438	-1.0	93	0.04
34	1,1,1-Trichloroethane	1.128	1.108	1.8	96	0.04
35	Cyclohexane	0.000	0.027	0.0	0#	0.04
36	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.03
37 s	surr4,Dibrflmethane	0.440	0.386	12.4	83	0.03
38	Carbontetrachloride	0.549	0.581	-5.8	91	0.04
39	1,1-Dichloropropene	0.620	0.685	-10.4	96	0.03
40	Iso-Butyl Alcohol	0.019	0.019	1.4	79	0.02
41	Benzene	1.636	1.819	-11.2	96	0.03

(#) = Out of Range

Acq On : 22 Apr 105 5:12 pm

Operator: K.ARNOLD

Sample : CCV

Inst : 5971 - In

Misc :

Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M

Title : 8260voa

Last Update : Wed Apr 06 16:36:00 2005

Response via : Multiple Level Calibration

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

Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42 s	surr1,1,2-Dicethane	0.420	0.366	12.9	82	0.03
43	1,2-Dichloroethane	0.613	0.632	-3.1	86	0.03
44	Trichloroethene	0.491	0.524	-6.7	92	0.04
45	Methyl Cyclohexane	0.000	0.000	0.0	0#	-12.10#
46 c	1,2-Diclpropane	0.472	0.511	-8.4	91	0.03
47	Methyl Methacrylate	0.235	0.230	2.2	79	0.03
48	Dibromomethane	0.312	0.315	-0.8	86	0.03
49	Bromodichloromethane	0.654	0.696	-6.5	89	0.04
50	2-Nitropropane	0.103	0.099	3.9	75	0.04
51	2-Chloroethylvinyl Ether	0.000	0.000	0.0	80	0.03
52	cis-1,3-Dichloropropene	0.779	0.850	-9.1	90	0.03
53	4-Methyl-2-Pentanone	0.483	0.492	-1.9	82	0.03
54 c	Toluene	1.791	1.933	-7.9	93	0.05
55	trans-1,3-Dichloropropene	0.687	0.719	-4.7	86	0.03
56	Ethyl Methacrylate	0.530	0.538	-1.4	84	0.04
57	1,1,2-Trichloroethane	0.340	0.345	-1.6	84	0.03
58 s	surr3,Toluene-d8	1.358	1.271	6.4	88	0.03
59 s	surr2,bfb	0.563	0.499	11.4	81	0.04
60	d5-Chlorobenze	1.000	1.000	0.0	79	0.05
61	Tetrachloroethene	0.436	0.477	-9.3	89	0.04
62	2-Hexanone	0.331	0.368	-11.1	80	0.04
63	1,3-Dichloropropene	0.673	0.750	-11.4	86	0.04
64	Dibromochloromethane	0.470	0.510	-8.4	85	0.04
65	1,2-Dibromoethane	0.427	0.446	-4.5	83	0.03
66 p	Chlorobenzene	1.209	<u>1.360</u>	-12.5	90	0.05
67	1,1,1,2-Tetrachloroethane	0.430	0.466	-8.4	86	0.04
68 c	Ethylbenzene	2.118	2.390	-12.8	92	0.04
69	(m+p)Xylene	0.785	0.856	-9.0	88	0.04
70	o-Xylene	0.773	0.857	-10.8	89	0.05
71	Styrene	1.314	1.443	-9.8	87	0.05
72 p	Bromoform	0.253	<u>0.267</u>	-5.6	80	0.04
73	Isopropylbenzene	2.000	<u>2.143</u>	-7.2	87	0.04
74	Cyclohexanone	0.054	0.061	-12.6	87	0.04
75	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	87	0.04
76 p	1,1,2,2-Tetrachloroethane	1.258	1.180	6.2	79	0.04
77	1,2,3-Trichloropropene	0.303	0.285	5.9	79	0.05
78	Trans-1,4-Dichloro-2-Butene	0.274	0.268	2.4	78	0.05
79	n-Propylbenzene	5.907	6.180	-4.6	91	0.04
80	Bromobenzene	1.103	1.090	1.3	86	0.05
81	1,3,5-Trimethylbenzene	3.775	3.757	0.5	88	0.05

(#)= Out of Range

B1070.D SOIL0406.M

Mon Apr 25 12:49:31 2005

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Page 2

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D

Vial: 35

Acq On : 22 Apr 105 5:12 pm

Operator: K.ARNOLD

Sample : CCV

Inst : 5971 - In

Misc :

Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M

Title : 8260voa

Last Update : Wed Apr 06 16:36:00 2005

Response via : Multiple Level Calibration

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

Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
82	2-Chlorotoluene	3.513	3.587	-2.1	90	0.04
83	4-Chlorotoluene	3.584	3.720	-3.8	90	0.04
84	tert-Butylbenzene	3.117	3.032	2.7	85	0.04
85	1,2,4-Trimethylbenzene	3.710	3.728	-0.5	88	0.04
86	sec-Butylbenzene	4.950	4.895	1.1	87	0.05
87	p-Isopropyltoluene	3.937	3.819	3.0	85	0.04
88	1,3-Dclbenz	1.985	1.993	-0.4	88	0.04
89	1,4-Dclbenz	1.951	1.959	-0.4	88	0.04
90	n-Butylbenzene	4.029	4.009	0.5	86	0.05
91	1,2-Dclbenz	1.803	1.817	-0.8	88	0.05
92	1,2-Dibromo-3-chloropropane	0.164	0.157	4.3	78	0.05
93	Nitrobenzene	0.000	0.000	0.0	102	0.03
94	1,2,4-Tcbenzene	0.997	0.973	2.4	88	0.05
95	Hexachlorobt	0.475	0.432	9.1	78	0.05
96	Naphthalen	2.092	1.868	10.7	76	0.06
97	1,2,3-Tclbenzene	0.883	0.863	2.2	86	0.05
98	TOTAL XYLENE	0.000	0.000	0.0	0#	-1.51#

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
 Acq On : 22 Apr 105 5:12 pm
 Sample : CCV
 Misc :
 Quant Time: Apr 22 17:40 19105

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Kau/25/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.88	168	668366	50.00	ppb	0.03
36) 1,4-Difluorobenzene	11.21	114	1047450	50.00	ppb	0.03
60) d5-Chlorobenze	16.74	117	979002	50.00	ppb	0.05
75) d4-1,4-Dichlorobenzene	21.44	152	459039	50.00	ppb	0.04

System Monitoring Compounds

	R.T.	QIon	Response	Conc	Units	%Recovery
37) surr4,Dibrflmethane	9.81	113	404033	43.80	ppb	87.61%
42) surr1,1,2-Diclethane	10.43	65	383098	43.56	ppb	87.12%
58) surr3,Toluene-d8	13.96	98	1331430	46.79	ppb	93.57%
59) surr2,bfb	19.07	95	522763	44.30	ppb	88.61%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethene	4.29		279367	55.51	m	
2) Dichlorodifluoromethane	2.94	85	436001	42.98	ppb	98
3) Chloromethane	3.26	50	532041	50.96	ppb	95
4) Vinyl Chloride	3.47	62	412709	53.59	ppb	95
5) Bromomethane	4.10	94	414704	47.09	ppb	99
7) Trichlorofluoromethane	4.79	101	719908	49.29	ppb	90
8) Diethyl Ether	5.31	59	292258	50.66	ppb	94
9) Acrolein	5.54	56	113859	195.71	ppb	97
10) FREON 113	5.76	85	189874	49.47	ppb	87
11) 1,1-Diclethene	5.75	96	357334	50.64	ppb	# 84
12) Acetone	5.83	43	114910	50.94	ppb	# 90
13) Iodomethane	6.03	142	534092	59.80	ppb	97
14) Carbon Disulfide	6.17	76	1711020	56.86	ppb	96
15) Methyl Acetate	6.45	43	104542	55.90	ppb	97
16) Acetonitrile	6.33	39	31691	244.50	ppb	100
17) Allyl Chloride	6.42	76	240121	60.65	ppb	96
18) Methylene Chloride	6.64	84	452048	49.33	ppb	94
19) TBA	6.80	59	748795	848.05	ppb	# 90
20) Methyl-t-Butyl Ether	7.14	73	1026891	46.61	ppb	97
21) Acrylonitrile	7.06	53	538004	222.52	ppb	97
22) trans-1,2-Dichloroethene	7.16	96	460841	51.37	ppb	91
23) 1,1-Diclethane	7.92	63	912175	52.79	ppb	96
24) Vinyl Acetate	7.99	42	48459	46.16	ppb	# 82
25) 2-Chloro-1,3-butadiene	8.09	53	769306	59.82	ppb	86
26) 2,2-Dichloropropane	8.96	77	779644	51.09	ppb	96
27) 2-Butanone	8.96	43	190819	45.68	ppb	# 77
28) cis-1,2-Dichloroethene	8.96	96	549381	51.28	ppb	95
29) Propionitrile	9.05	54	214826	222.63	ppb	# 88
30) Methacrylonitrile	9.35	67	120811	43.57	ppb	82
31) Bromochloromethane	9.40	128	242704	48.02	ppb	95
32) Tetrahydrofuran	9.48	42	99403	43.21	ppb	# 85
33) Chloroform	9.53	83	960845	50.49	ppb	92
34) 1,1,1-Trichloroethane	9.89	97	740685	49.12	ppb	94

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

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
 Acq On : 22 Apr 105 5:12 pm
 Sample : CCV
 Misc :
 Quant Time: Apr 22 17:40 19105

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbontetrachloride	10.20	117	608151	52.90	ppb	95
39) 1,1-Dichloropropene	10.18	75	717173	55.19	ppb	99
40) Iso-Butyl Alcohol	10.30	43	388143	986.50	ppb	98
41) Benzene	10.56	78	1905653	55.59	ppb	99
43) 1,2-Dichloroethane	10.57	62	661891	51.55	ppb	# 95
44) Trichloroethene	11.72	95	549106	53.37	ppb	96
46) 1,2-Dichloropropane	12.12	63	535526	54.19	ppb	98
47) Methyl Methacrylate	12.28	69	240457	48.92	ppb	84
48) Dibromomethane	12.34	93	329513	50.41	ppb	94
49) Bromodichloromethane	12.62	83	729213	53.23	ppb	98
50) 2-Nitropropane	13.01 13.15	41	203019587	9.11	ppb	96.0 m 92 (a)
52) cis-1,3-Dichloropropene	13.43	75	890641	54.57	ppb	100
53) 4-Methyl-2-Pentanone	13.68	43	515674	50.93	ppb	99
54) Toluene	14.09	91	2024562	53.96	ppb	96
55) trans-1,3-Dichloropropene	14.46	75	752825	52.33	ppb	100
56) Ethyl Methacrylate	14.60	69	563460	50.72	ppb	94
57) 1,1,2-Trichloroethane	14.82	83	361620	50.80	ppb	90
61) Tetrachloroethene	15.15	166	466958	54.66	ppb	96
62) 2-Hexanone	15.26	43	360196	55.54	ppb	99
63) 1,3-Dichloropropane	15.16	76	734630	55.71	ppb	99
64) Dibromochloromethane	15.60	129	499341	54.21	ppb	98
65) 1,2-Dibromoethane	15.84	107	437122	52.27	ppb	94
66) Chlorobenzene	16.80	112	1331750	56.26	ppb	96
67) 1,1,1,2-Tetrachloroethane	16.94	131	456483	54.19	ppb	96
68) Ethylbenzene	16.99	91	2339410	56.42	ppb	95
69) (m+p)Xylene	17.22	106	1676441	109.03	ppb	92
70) o-Xylene	18.02	106	838990	55.42	ppb	97
71) Styrene	18.04	104	1412849	54.90	ppb	94
72) Bromoform	18.44	173	261306	52.81	ppb	96
73) Isopropylbenzene	18.75	105	2097690	53.58	ppb	97
74) Cyclohexanone	18.93	55	1194791	1126.32	ppb	95
76) 1,1,2,2-Tetrachloroethane	19.32	83	541500	46.90	ppb	99
77) 1,2,3-Trichloropropane	19.43	110	130836	47.05	ppb	92
78) Trans-1,4-Dichloro-2-Buten	19.43	53	122860	48.80	ppb	94
79) n-Propylbenzene	19.58	91	2837076	52.31	ppb	96
80) Bromobenzene	19.41	156	500164	49.37	ppb	92
81) 1,3,5-Trimethylbenzene	19.93	105	1724642	49.76	ppb	98
82) 2-Chlorotoluene	19.78	91	1646741	51.06	ppb	96
83) 4-Chlorotoluene	20.00	91	1707640	51.90	ppb	99
84) tert-Butylbenzene	20.60	119	1391709	48.63	ppb	95
85) 1,2,4-Trimethylbenzene	20.70	105	1711155	50.24	ppb	98
86) sec-Butylbenzene	21.06	105	2247120	49.45	ppb	96
87) p-Isopropyltoluene	21.34	119	1753080	48.51	ppb	99
88) 1,3-Dichlorobenz	21.32	146	914798	50.19	ppb	97

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

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
Acq On : 22 Apr 105 5:12 pm
Sample : CCV
Misc :
Quant Time: Apr 22 17:40 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration

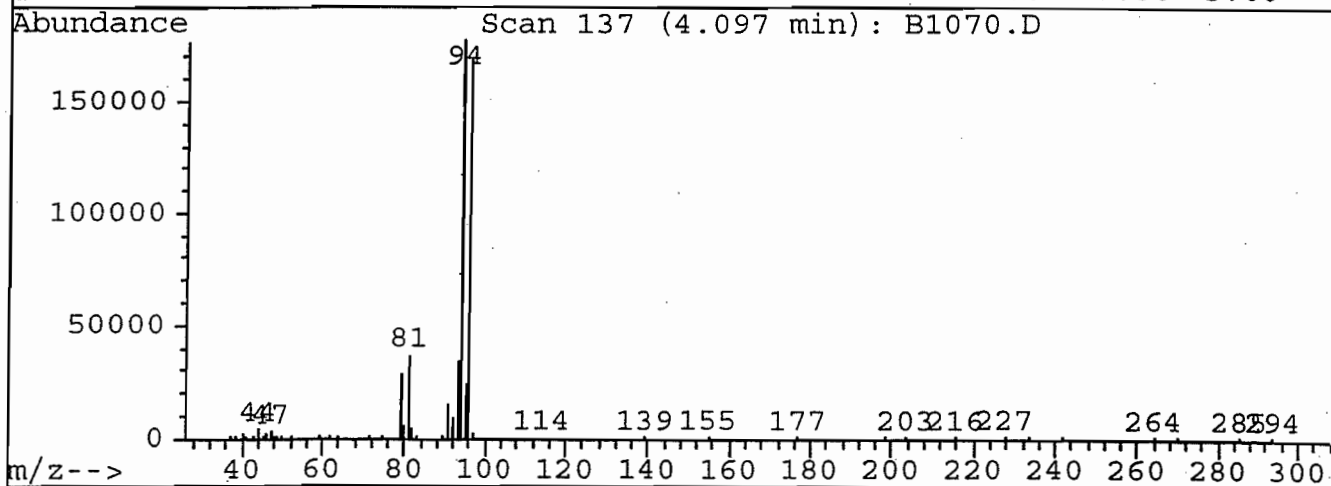
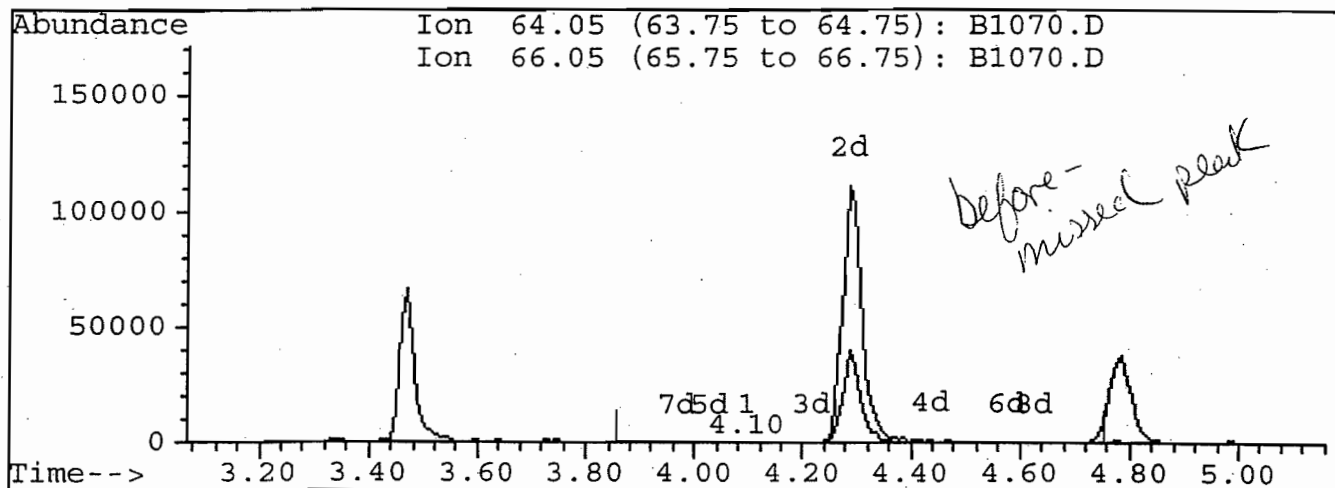
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
89) 1,4-Dclbenz	21.49	146	899076	50.21	ppb	97
90) n-Butylbenzene	22.19	91	1840214	49.75	ppb	98
91) 1,2-Dclbenz	22.28	146	834063	50.39	ppb	99
92) 1,2-Dibromo-3-chloropropan	23.88	157	72234	47.87	ppb	92
94) 1,2,4-Tcbenzene	25.62	180	446531	48.79	ppb	98
96) Naphthalen	26.17	128	857556	44.66	ppb	96
97) 1,2,3-Tclbenzene	26.72	180	396069	48.88	ppb	96
95) hexachlorodutadiene	25.97		108226	45.46	ppb	96

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
 Acq On : 22 Apr 105 5:12 pm
 Sample : CCV
 Misc :
 Quant Time: Apr 22 17:40 19105

Vial: 35
 Operator: K.ARNOLD
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Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1070.D

(6) Chloroethane

4.10min 0.21ppb

response 1060

Ion	Exp%	Act%
64.05	100	100
66.05	29.10	26.62
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D

Vial: 35

Acq On : 22 Apr 105 5:12 pm

Operator: K.ARNOLD

Sample : CCV

Inst : 5971 - In

Misc :

Multiplr: 1.00

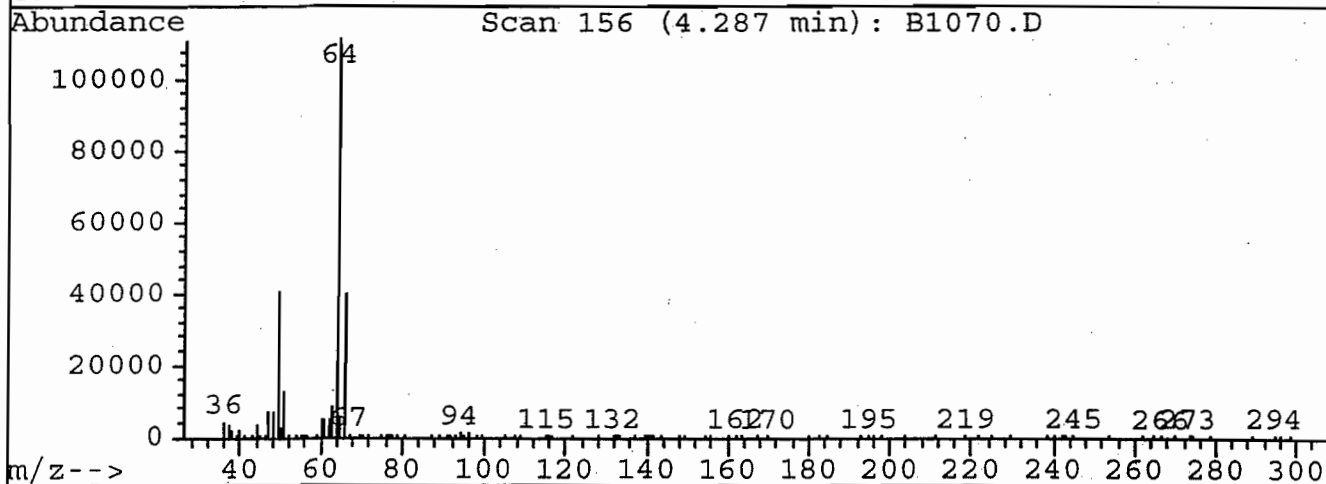
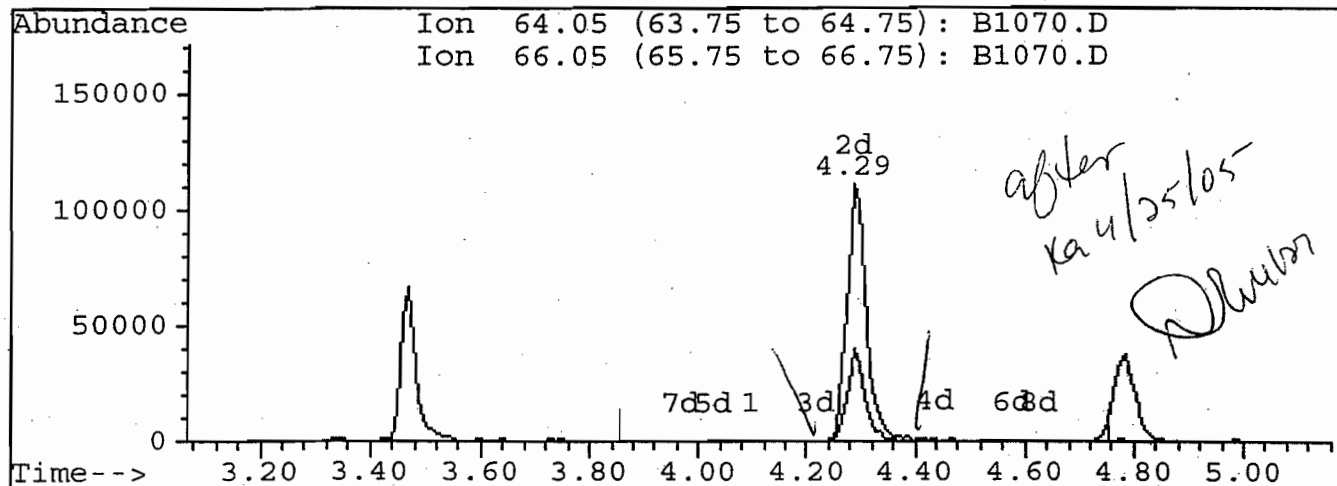
Quant Time: Apr 25 12:44 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M

Title : 8260voa

Last Update : Wed Apr 06 16:36:00 2005

Response via : Multiple Level Calibration



TIC: B1070.D

(6) Chloroethane

4.29min 55.51ppb m

response 279367

Ion	Exp%	Act%
64.05	100	100
66.05	29.10	36.03
0.00	0.00	0.00
0.00	0.00	0.00

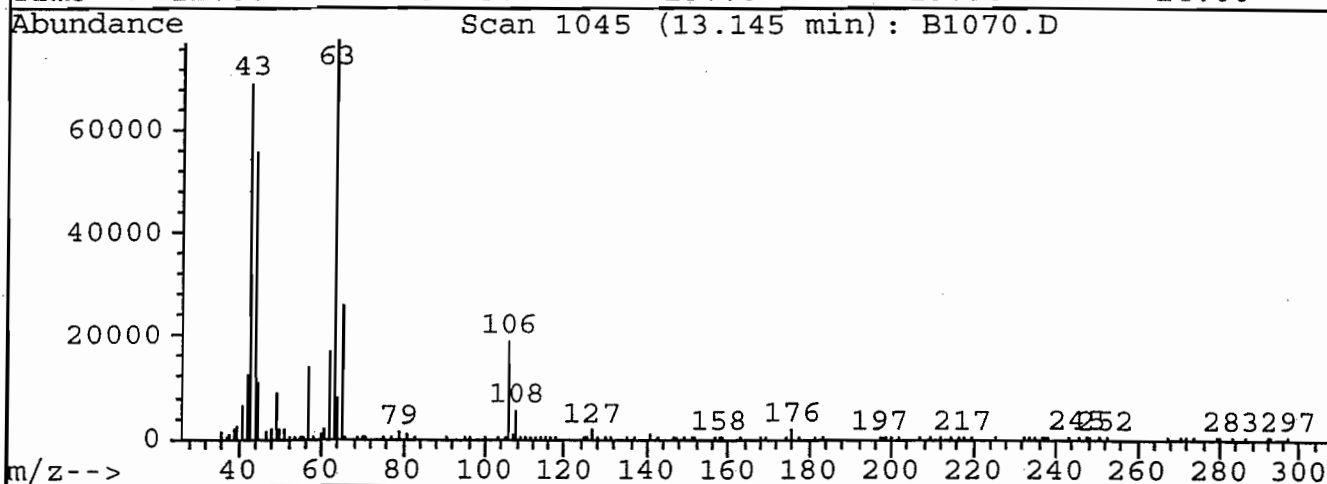
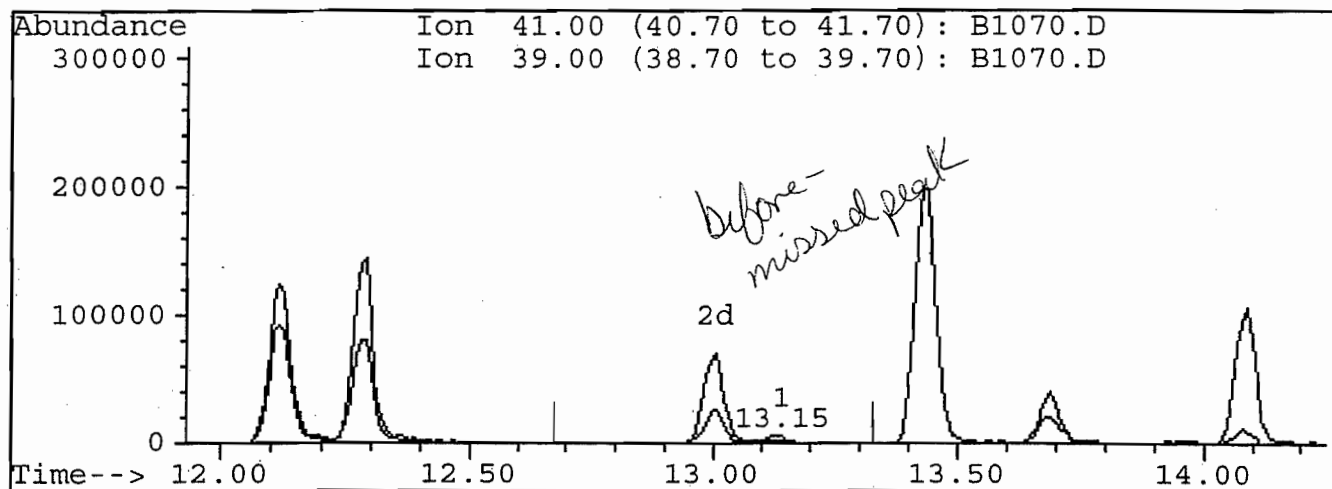
141

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
Acq On : 22 Apr 105 5:12 pm
Sample : CCV
Misc :
Quant Time: Apr 25 12:45 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1070.D

(50) 2-Nitropropane

13.15min 9.11ppb

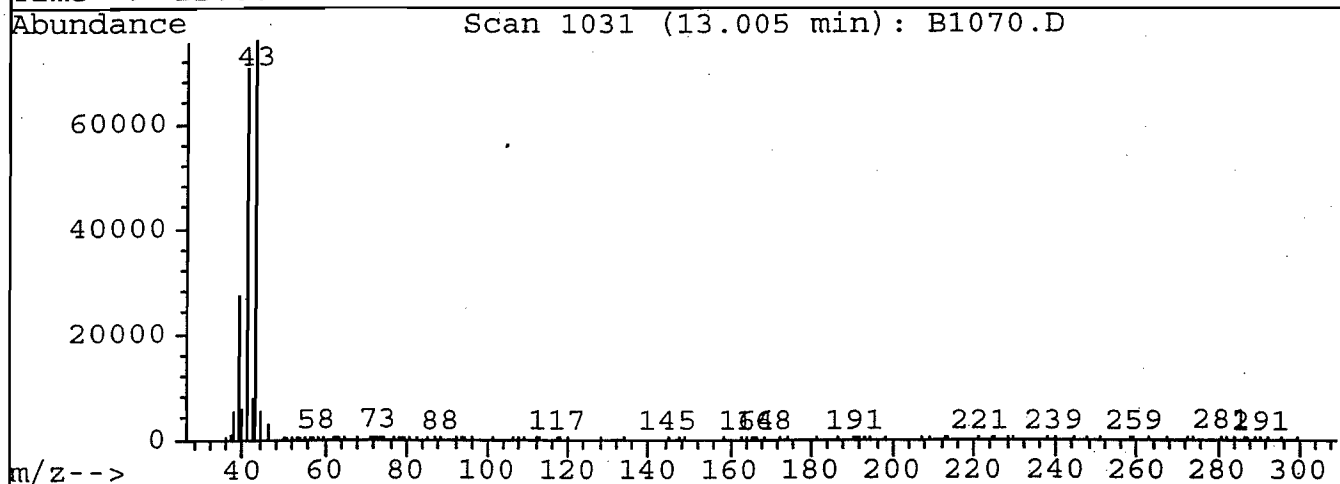
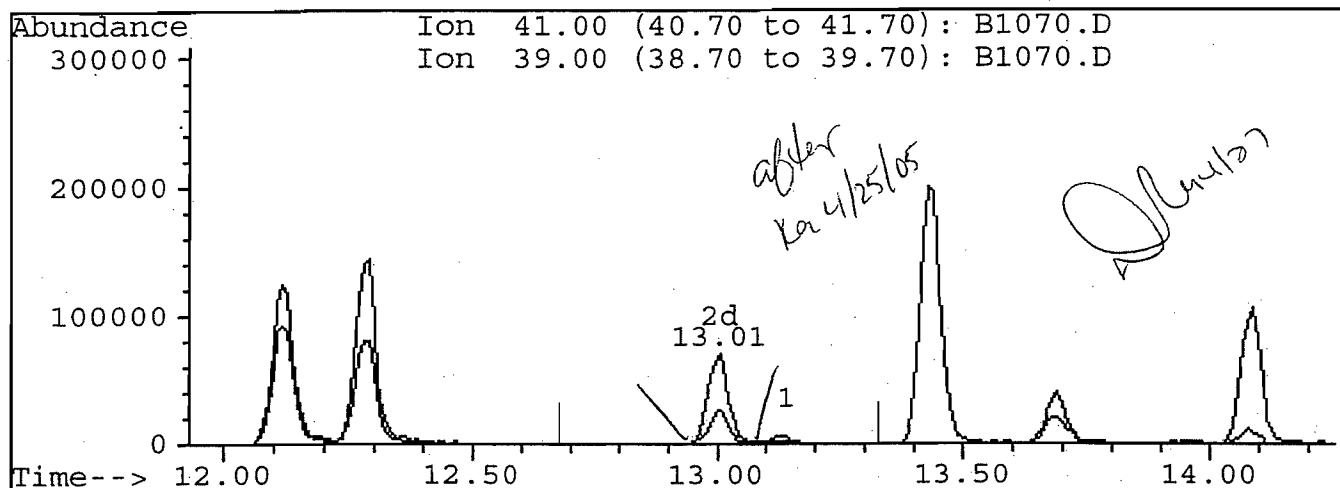
response 19587

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	26.47
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
Acq On : 22 Apr 105 5:12 pm
Sample : CCV
Misc :
Quant Time: Apr 25 12:48 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1070.D

(50) 2-Nitropropane
13.01min 96.06ppb m
response 206542

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	38.40
0.00	0.00	0.00
0.00	0.00	0.00

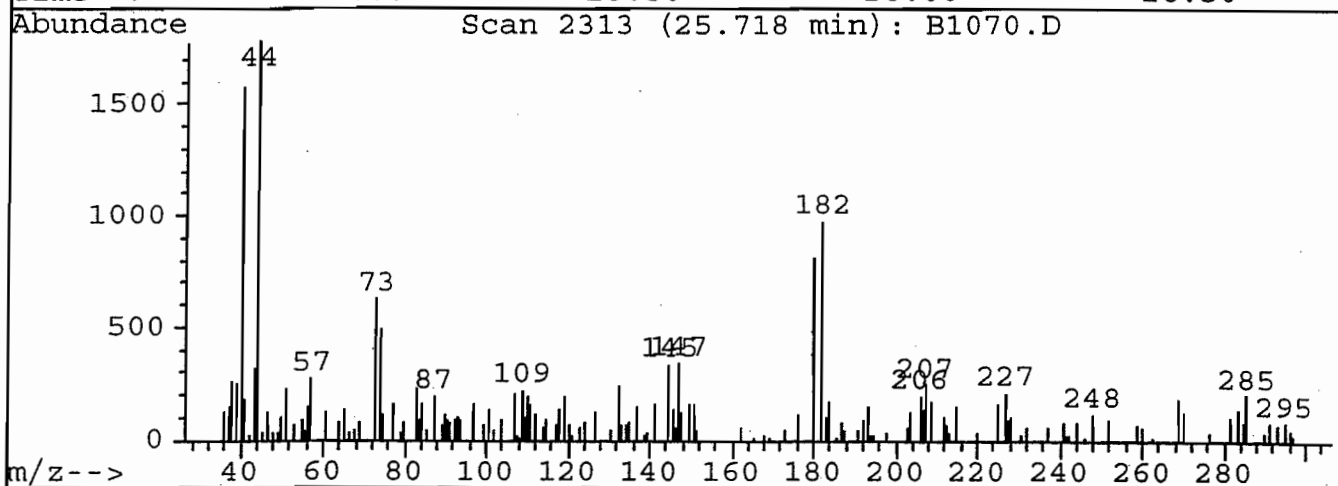
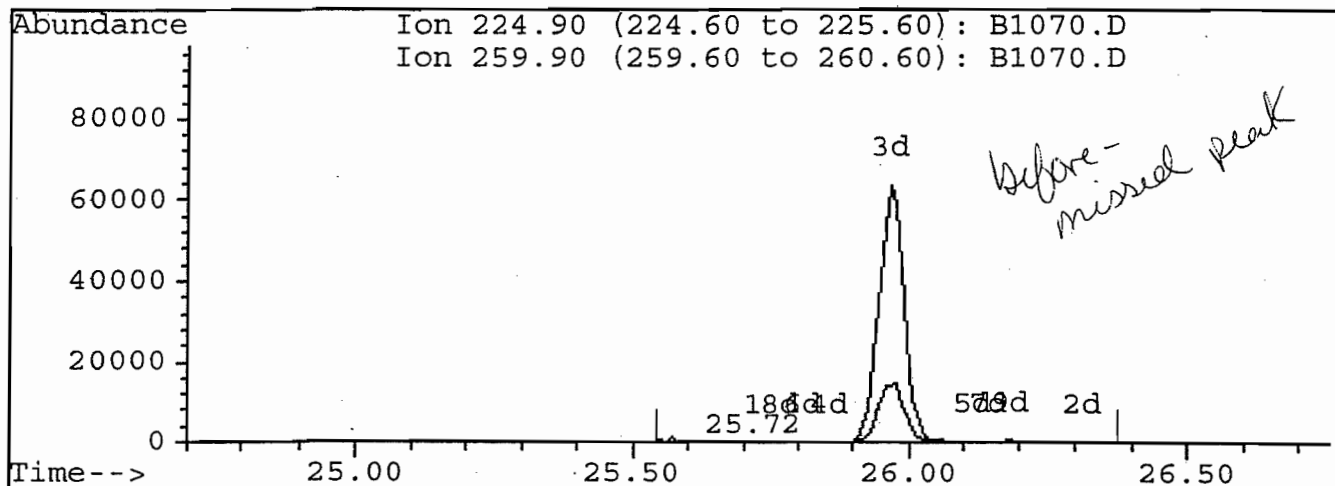
143

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
Acq On : 22 Apr 105 5:12 pm
Sample : CCV
Misc :
Quant Time: Apr 25 12:44 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1070.D

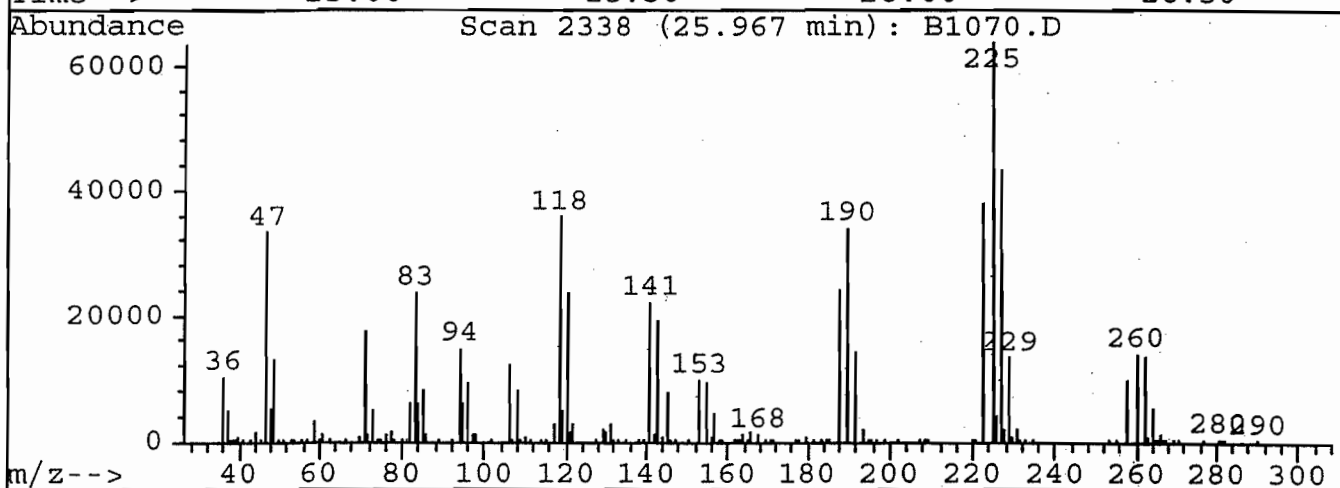
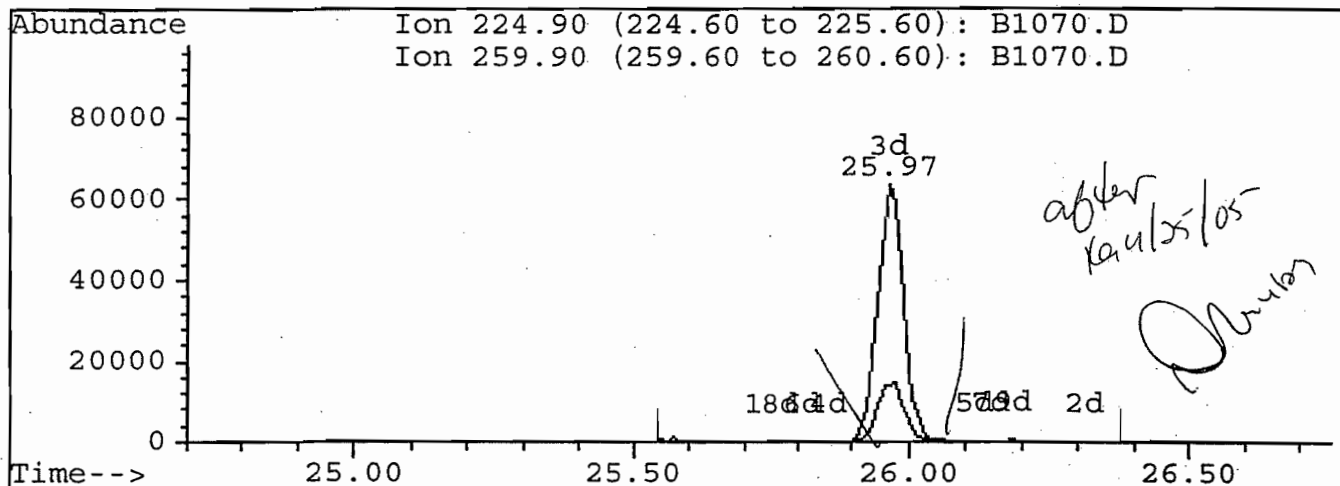
(95) Hexachlorobt
25.72min 0.04ppb
response 186

Ion	Exp%	Act%
224.90	100	100
259.90	29.30	31.25
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1070.D
 Acq On : 22 Apr 105 5:12 pm
 Sample : CCV
 Misc :
 Quant Time: Apr 25 12:45 19105

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



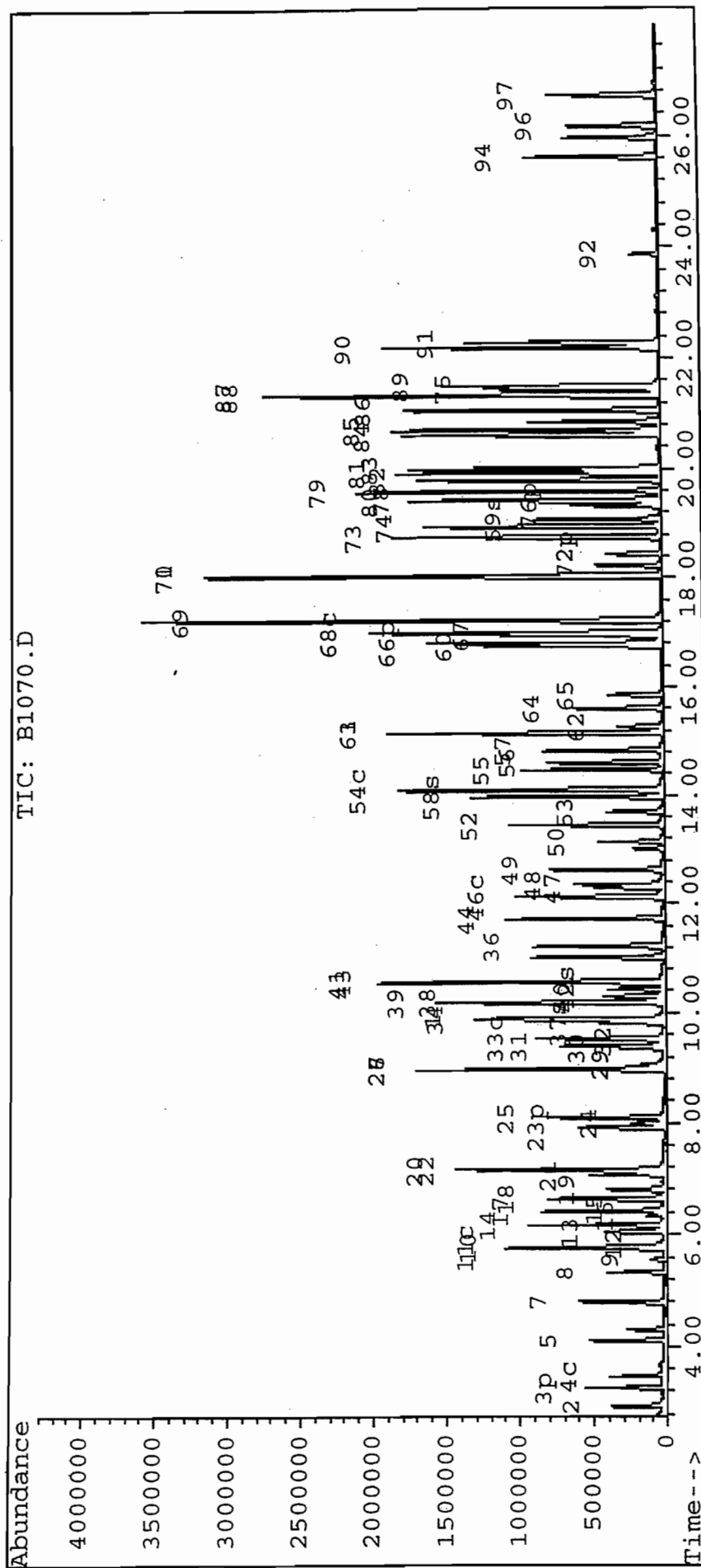
TIC: B1070.D

(95) Hexachlorobt
 25.97min 45.46ppb m
 response 198226

Ion	Exp%	Act%
224.90	100	100
259.90	29.30	21.75
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQDATA\MSVOA5\DATA\042205\B1070.D Vial: 35
 Acq On : 22 Apr 105 5:12 pm Operator: K.ARNOLD
 Sample : CCV Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Apr 22 17:40 19105

Method : J:\ACQDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



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8260 VOLATILE ORGANICS

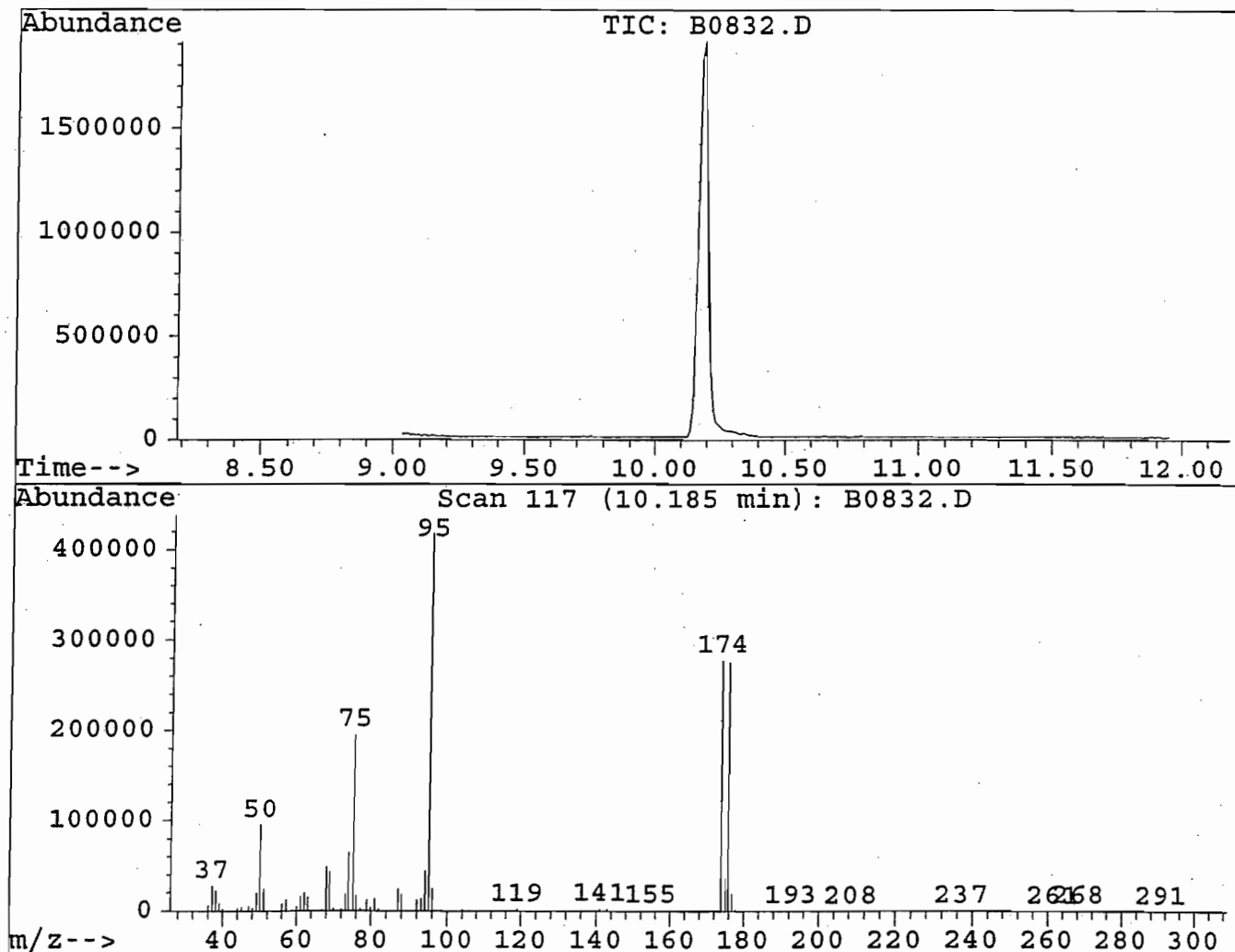
RAW QC DATA

Data File : J:\ACQUDATA\MSVOA5\DATA\040605\B0832.D
 Acq On : 6 Apr 105 10:45 am
 Sample : TUNE
 Misc :

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa

ka 4/6/05



Peak Apex is scan: 117

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	95272	PASS
75	95	30	60	46.6	194880	PASS
95	95	100	100	100.0	418368	PASS
96	95	5	9	5.8	24408	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	66.3	277184	PASS
175	174	5	9	8.1	22432	PASS
176	174	95	101	98.9	274176	PASS
177	176	5	9	6.9	19040	PASS

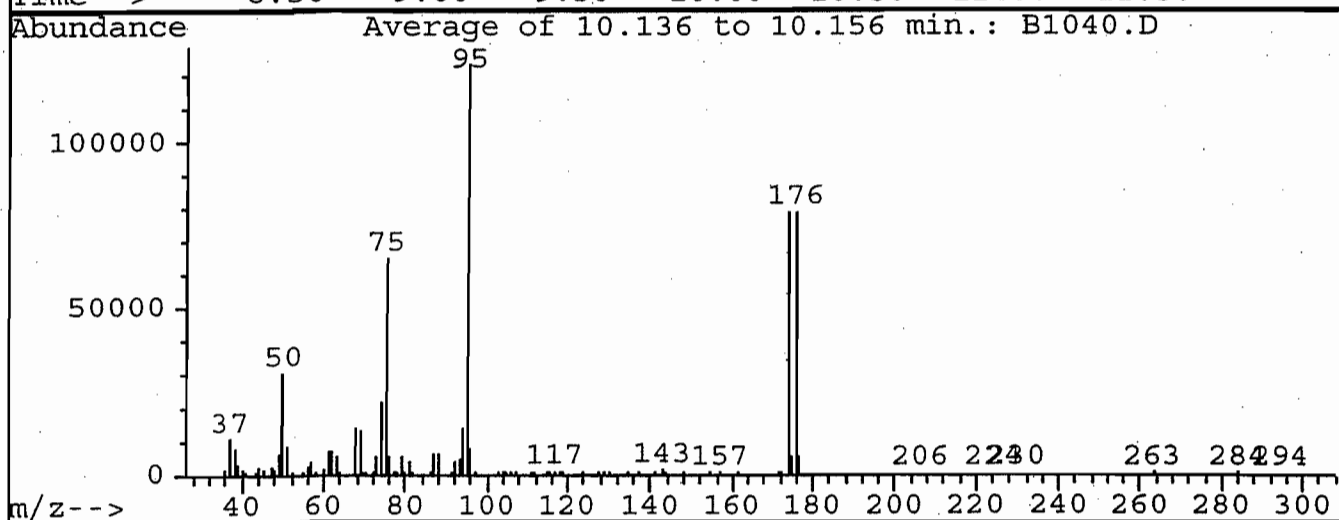
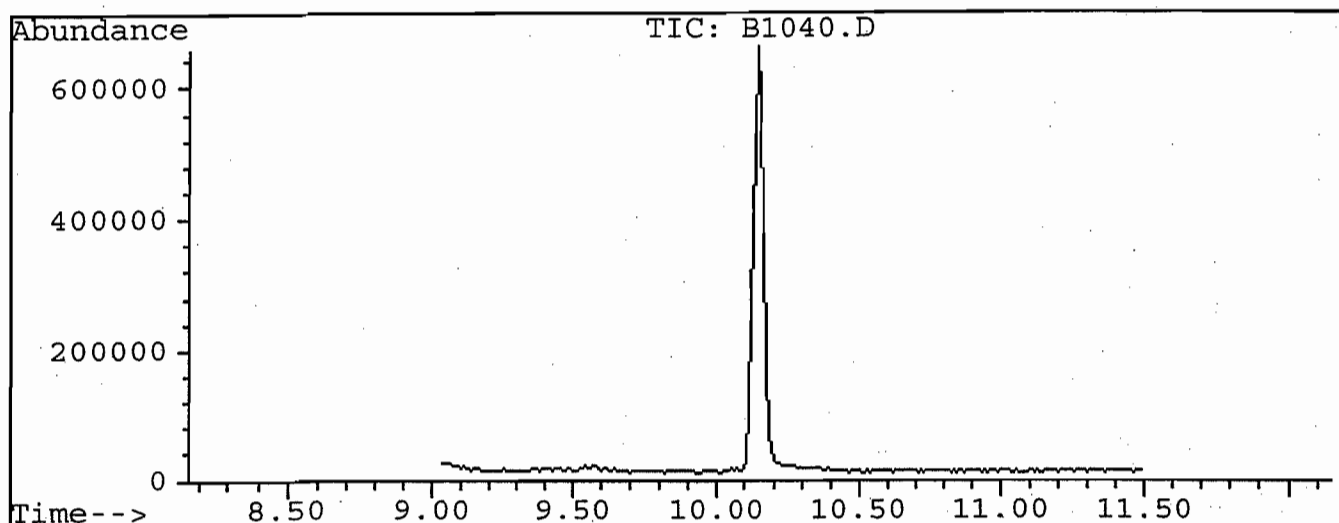
148

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1040.D
 Acq On : 21 Apr 105 1:50 pm
 Sample : TUNE
 Misc :

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa

ka 4/21/05



Peak Apex is scan: 114

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.2	29896	PASS
75	95	30	60	52.3	64499	PASS
95	95	100	100	100.0	123341	PASS
96	95	5	9	6.3	7796	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	63.3	78117	PASS
175	174	5	9	6.2	4815	PASS
176	174	95	101	100.6	78605	PASS
177	176	5	9	6.6	5196	PASS

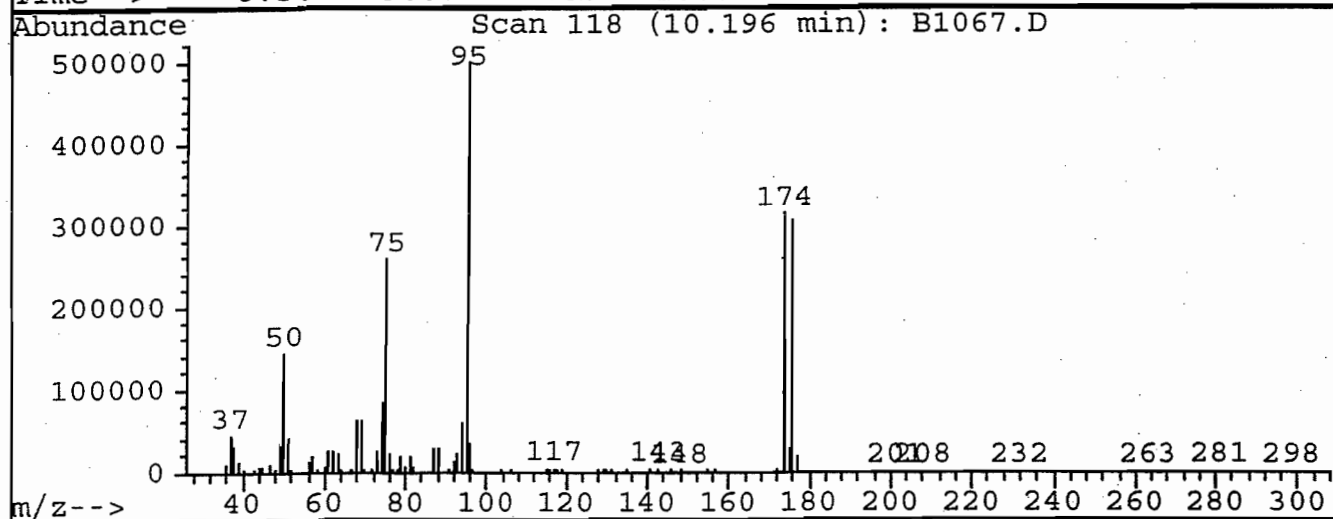
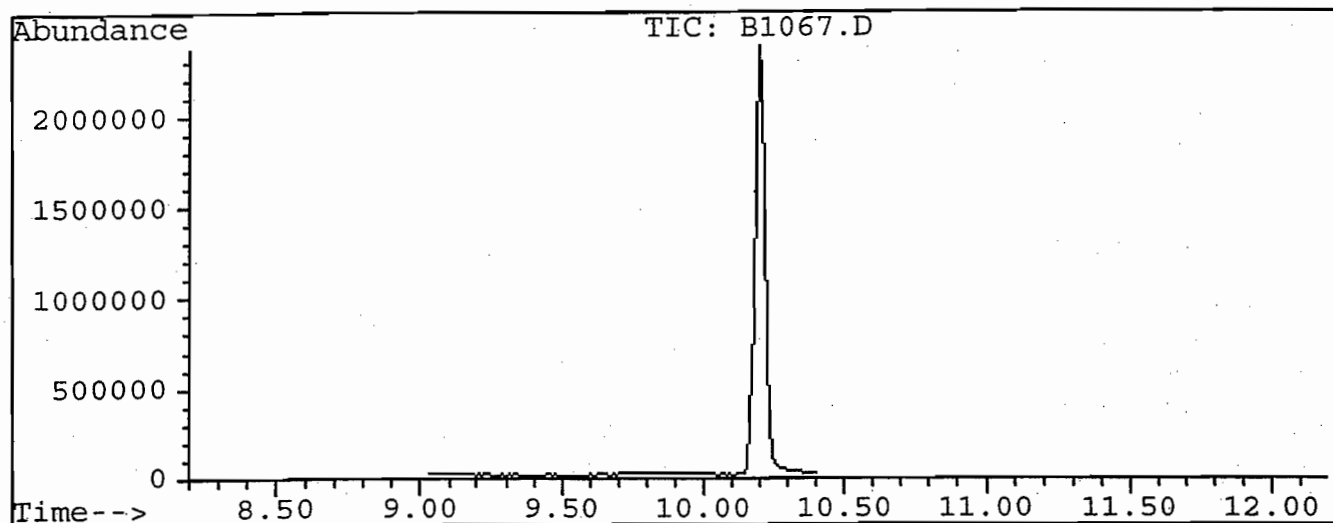
149

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1067.D
 Acq On : 22 Apr 105 2:54 pm
 Sample : TUNE
 Misc :

Vial: 38
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa

Ka 4/22/05



Peak Apex is scan: 118

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.6	143040	PASS
75	95	30	60	51.5	257600	PASS
95	95	100	100	100.0	500288	PASS
96	95	5	9	6.4	31880	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	62.6	313088	PASS
175	174	5	9	8.9	27824	PASS
176	174	95	101	97.9	306368	PASS
177	176	5	9	6.2	18992	PASS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B TCL

Reported: 05/04/05

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 809297	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/21/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)
TOLUENE-D8	(75 - 128 %)
DIBROMOFLUOROMETHANE	(62 - 133 %)

88

%

97

%

86

151

120

CP 10/3/07

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1045.D
 Acq On : 21 Apr 105 5:10 pm
 Sample : MET BLK 809297
 Misc :
 Quant Time: Apr 21 17:39 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

ka 4/21/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
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1) Pentafluorobenzene	9.85	168	597195	50.00	ppb	0.00
36) 1,4-Difluorobenzene	11.19	114	996122	50.00	ppb	0.00
60) d5-Chlorobenze	16.71	117	989368	50.00	ppb	0.01
75) d4-1,4-Dichlorobenzene	21.40	152	409819	50.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
37) surr4,Dibrflmethane	9.78	113	375496	42.81	ppb	85.61%
42) surr1,1,2-Diclethane	10.40	65	374431	44.77	ppb	89.53%
58) surr3,Toluene-d8	13.92	98	1307938	48.33	ppb	96.66%
59) surr2,bfb	19.04	95	495357	44.14	ppb	88.29%

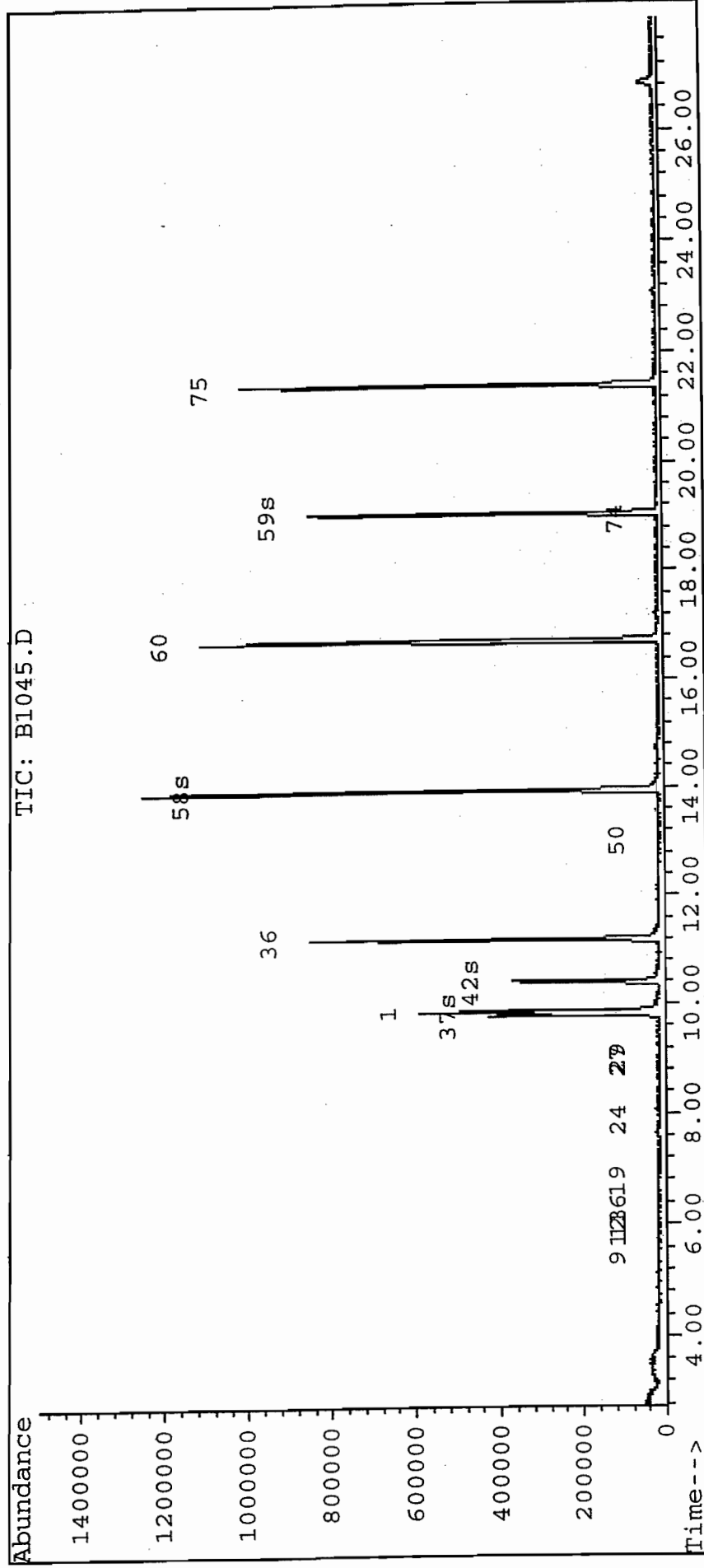
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Acrolein	5.38	56	148	40.81	ppb	99
12) Acetone	5.88	43	1574	0.78	ppb	# 83
13) Iodomethane	6.00	142	513	19.68	ppb	41
16) Acetonitrile	6.27	39	1014	8.76	ppb	78
19) TBA	6.79	59	416	0.53	ppb	# 56
24) Vinyl Acetate	7.87	42	930	0.99	ppb	# 30
27) 2-Butanone	8.94	43	2436	0.65	ppb	# 74
29) Propionitrile	9.00	54	693	0.80	ppb	# 1
50) 2-Nitropropane	13.00	41	1049	0.51	ppb	# 76
74) Cyclohexanone	18.92	55	1479	1.38	ppb	# 54

152

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1045.D Vial: 36
 Acq On : 21 Apr 105 5:10 pm Operator: K.ARNOLD
 Sample : MET BLK Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Apr 21 17:39 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260vov
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



1013

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 05/04/05Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 809299	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/22/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	5.0	5.0 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TETRACHLOROETHENE	5.0	5.0 U	UG/KG
TOLUENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
VINYL CHLORIDE	5.0	5.0 U	UG/KG
O-XYLENE	5.0	5.0 U	UG/KG
M+P-XYLENE	5.0	5.0 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS
4-BROMOFLUOROBENZENE	(68 - 128 %)
TOLUENE-D8	(75 - 128 %)
DIBROMOFLUOROMETHANE	(62 - 133 %)

85	%
91	%
85	%

154

121

CP 10/3/07

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1073.D
Acq On : 22 Apr 105 6:58 pm
Sample : MET BLK 809299
Misc :
Quant Time: Apr 22 19:26 19105

Vial: 38
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration

Ka 4/25/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.89	168	624608	50.00	ppb	0.04
36) 1,4-Difluorobenzene	11.22	114	1075995	50.00	ppb	0.04
60) d5-Chlorobenze	16.75	117	978428	50.00	ppb	0.05
75) d4-1,4-Dichlorobenzene	21.45	152	426193	50.00	ppb	0.04

System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.82	113	401108	42.33	ppb	84.66%
42) surr1,1,2-Diclethane	10.43	65	397458	43.99	ppb	87.99%
58) surr3,Toluene-d8	13.97	98	1327578	45.41	ppb	90.82%
59) surr2,bfb	19.08	95	512787	42.30	ppb	84.61%

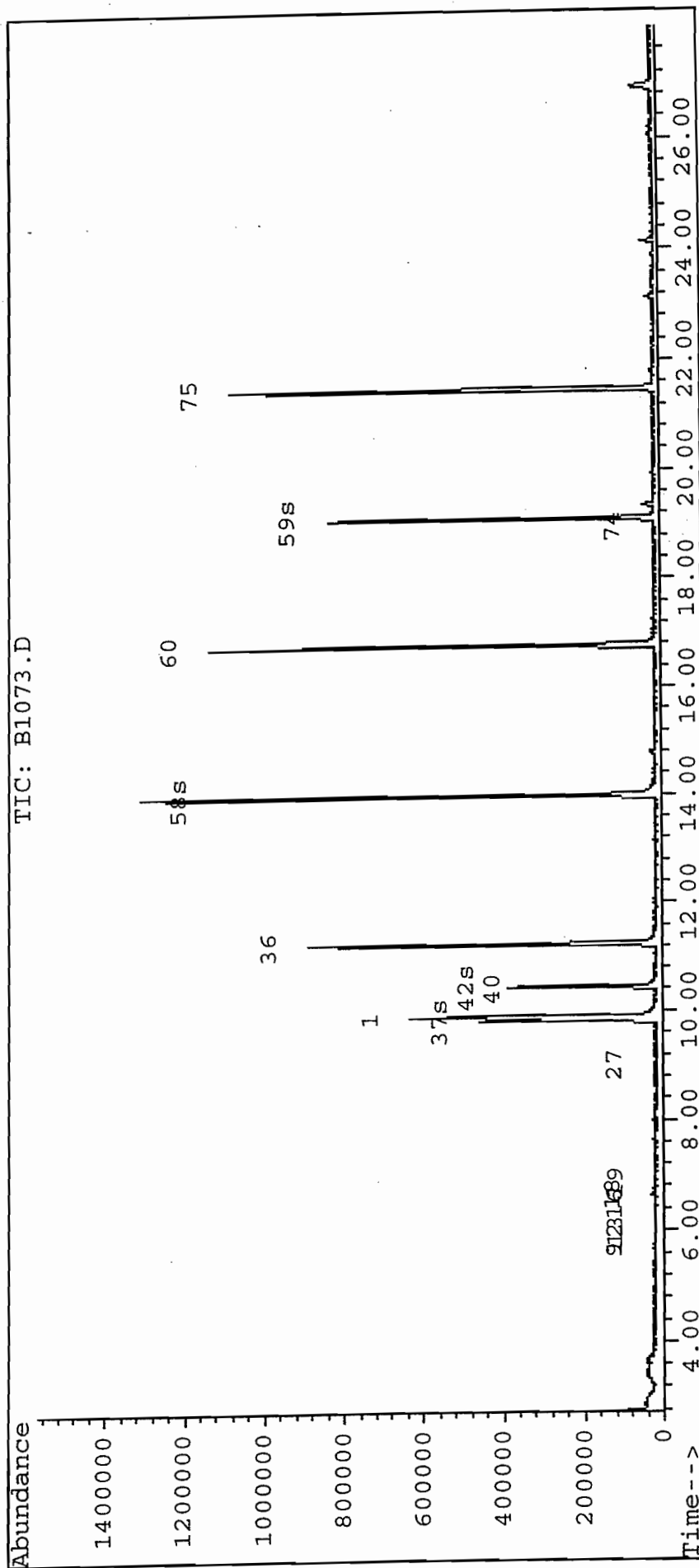
Target Compounds						Qvalue
9) Acrolein	5.64	56	110	40.74	ppb	93
12) Acetone	5.86	43	1114	0.53	ppb	# 91
13) Iodomethane	5.99	142	414	19.67	ppb	76
16) Acetonitrile	6.48	39	1658	13.69	ppb	66
18) Methylene Chloride	6.65	84	5038	0.59	ppb	# 90
19) TBA	6.86	59	751	0.91	ppb	# 15
27) 2-Butanone	8.99	43	3164	0.81	ppb	# 49
40) Iso-Butyl Alcohol	10.41	43	705	1.74	ppb	61
74) Cyclohexanone	18.95	55	2294	2.16	ppb	# 57

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Quantitation report

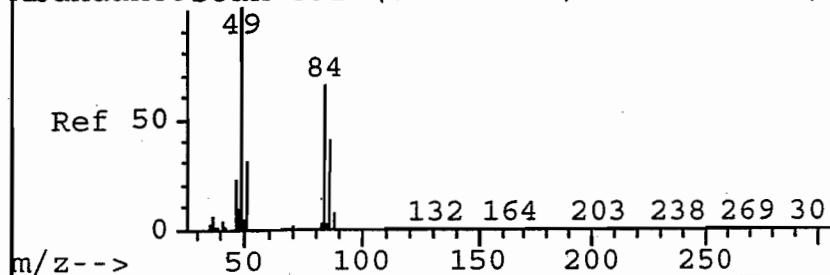
Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1073.D Vial: 38
 Acq On : 22 Apr 105 6:58 pm Operator: K.ARNOLD
 Sample : MET BLK Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Apr 22 19:26 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



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Abundance Scan 392 (6.609 min): B0837.D (-, *



#18

Methylene Chloride

Concen: 0.59 ppb

RT: 6.65 min Scan# 394

Delta R.T. 0.04 min

Lab File: B1073.D

Acq: 22 Apr 105 6:58 pm

Tgt Ion: 84.05 Resp: 5038

Ion Ratio Lower Upper

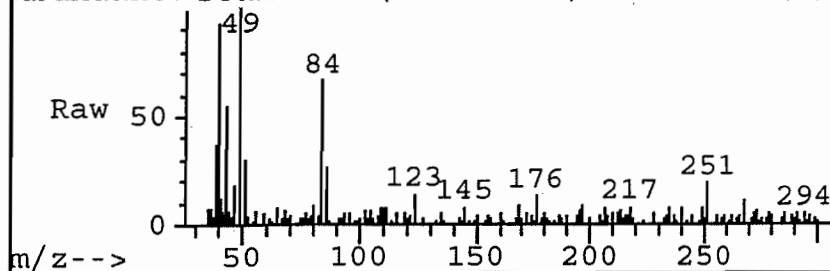
84 100

49 152.5 123.5 185.2

86 39.1 50.0 74.9#

0 0.0 0.0 0.0

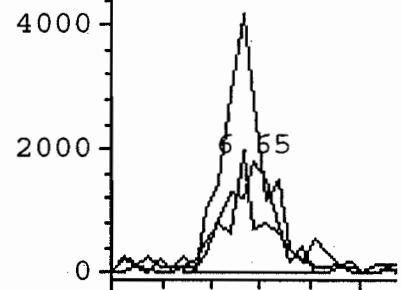
Abundance Scan 394 (6.655 min): B1073.D (*)



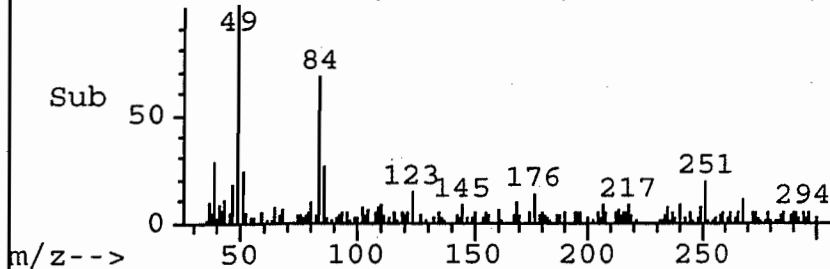
Abundance Ion 84.05 (83.

Ion 49.00 (48.

Ion 86.05 (85.



Abundance Scan 394 (6.655 min): B1073.D (-, *



Time-->6.54 6.74

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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/04/07

Project Reference:

Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled : Order #: 809298 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/21/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	21	UG/KG
BROMODICHLOROMETHANE	5.0	20	UG/KG
BROMOFORM	5.0	19	UG/KG
BROMOMETHANE	5.0	18	UG/KG
2-BUTANONE (MEK)	10	19	UG/KG
CARBON DISULFIDE	10	22	UG/KG
CARBON TETRACHLORIDE	5.0	20	UG/KG
CHLOROBENZENE	5.0	21	UG/KG
CHLOROETHANE	5.0	21	UG/KG
CHLOROFORM	5.0	21	UG/KG
CHLOROMETHANE	5.0	22	UG/KG
DIBROMOCHLOROMETHANE	5.0	19	UG/KG
1,1-DICHLOROETHANE	5.0	21	UG/KG
1,2-DICHLOROETHANE	5.0	19	UG/KG
1,1-DICHLOROETHENE	5.0	23	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	20	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	21	UG/KG
1,2-DICHLOROPROPANE	5.0	20	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	19	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	20	UG/KG
ETHYLBENZENE	5.0	21	UG/KG
2-HEXANONE	10	18	UG/KG
METHYLENE CHLORIDE	5.0	21	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	18	UG/KG
STYRENE	5.0	19	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	17	UG/KG
TETRACHLOROETHENE	5.0	21	UG/KG
TOLUENE	5.0	21	UG/KG
1,1,1-TRICHLOROETHANE	5.0	21	UG/KG
1,1,2-TRICHLOROETHANE	5.0	20	UG/KG
TRICHLOROETHENE	5.0	20	UG/KG
VINYL CHLORIDE	5.0	23	UG/KG
O-XYLENE	5.0	20	UG/KG
M+P-XYLENE	5.0	41	UG/KG

SURROGATE RECOVERIES

QC LIMITS

4-BROMOFLUOROBENZENE	(68 - 128 %)	93	%
TOLUENE-D8	(75 - 128 %)	94	%
DIBROMOFLUOROMETHANE	(62 - 133 %)	87	%

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Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
 Acq On : 21 Apr 105 3:57 pm
 Sample : LCS 809298
 Misc :
 Quant Time: Apr 21 16:25 19105

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

4/21/05
 ka

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.85	168	593720	50.00	ppb	0.00
36) 1,4-Difluorobenzene	11.19	114	1017949	50.00	ppb	0.00
60) d5-Chlorobenze	16.70	117	993180	50.00	ppb	0.00
75) d4-1,4-Dichlorobenzene	21.40	152	458309	50.00	ppb	0.00

System Monitoring Compounds

						%Recovery
37) surr4,Dibrflmethane	9.79	113	389400	43.44	ppb	86.88%
42) surr1,1,2-Diclethane	10.39	65	353207	41.32	ppb	82.65%
58) surr3,Toluene-d8	13.92	98	1294888	46.82	ppb	93.64%
59) surr2,bfb	19.04	95	533468	46.52	ppb	93.04%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.92	85	214976	23.85	ppb	100
3) Chloromethane	3.25	50	200624	21.63	ppb	99
4) Vinyl Chloride	3.44	62	157867	23.08	ppb	90
5) Bromomethane	4.07	94	157902	17.56	ppb	82
6) Chloroethane	4.26	64	93438	20.90	ppb	97
7) Trichlorofluoromethane	4.75	101	285984	22.04	ppb	100
8) Diethyl Ether	5.29	59	100677	19.64	ppb	91
9) Acrolein	5.52	56	47331	113.18	ppb	87
10) FREON 113	5.74	85	71291	20.91	ppb	100
11) 1,1-Diclethene	5.73	96	142480	22.73	ppb	92
12) Acetone	5.82 5.92	43	32859 3746	16.40 1.87	ppb m	93
13) Iodomethane	6.01	142	152088	32.51	ppb	98
14) Carbon Disulfide	6.14	76	574699	21.50	ppb	96
15) Methyl Acetate	6.44	43	20781	12.51	ppb	95
16) Acetonitrile	6.32 6.39	39	10559 222027	1928.33	ppb	# 91.71 1 m
17) Allyl Chloride	6.40	76	85609	24.34	ppb	91
18) Methylene Chloride	6.62	84	173099	21.26	ppb	94
19) TBA	6.78	59	264443	337.15	ppb	# 85
20) Methyl-t-Butyl Ether	7.11	73	368857	18.85	ppb	97
21) Acrylonitrile	7.03	53	189948	88.44	ppb	89
22) trans-1,2-Dichloroethene	7.13	96	164649	20.66	ppb	98
23) 1,1-Diclethane	7.88	63	329281	21.45	ppb	94
24) Vinyl Acetate	7.96	42	18782	20.14	ppb	# 58
25) 2-Chloro-1,3-butadiene	8.06	53	291046	25.48	ppb	91
26) 2,2-Dichloropropane	8.93	77	291594	21.51	ppb	98
27) 2-Butanone	8.93	43	71665	19.31	ppb	# 81
28) cis-1,2-Dichloroethene	8.93	96	188704	19.83	ppb	93
29) Propionitrile	9.02	54	71716	83.67	ppb	# 90
30) Methacrylonitrile	9.31	67	42060	17.08	ppb	94
31) Bromochloromethane	9.36	128	84523	18.82	ppb	85
32) Tetrahydrofuran	9.45	42	41442	16.60	ppb	# 80
33) Chloroform	9.50	83	358269	21.19	ppb	98

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

B1043.D SOIL0406.M

Thu Apr 21 16:25:23 2005

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Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
 Acq On : 21 Apr 105 3:57 pm
 Sample : LCS
 Misc :
 Quant Time: Apr 21 16:25 19105

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) 1,1,1-Trichloroethane	9.86	97	279500	20.86	ppb	# 48
38) Carbontetrachloride	10.16	117	226722	20.29	ppb	97
39) 1,1-Dichloropropene	10.14	75	254359	20.14	ppb	94
40) Iso-Butyl Alcohol	10.27	43	139395	364.55	ppb	98
41) Benzene	10.52	78	704689	21.15	ppb	99
43) 1,2-Dichloroethane	10.53	62	235096	18.84	ppb	# 94
44) Trichloroethene	11.68	95	205804	20.58	ppb	88
46) 1,2-Dichloropropane	12.09	63	189362	19.72	ppb	92
47) Methyl Methacrylate	12.25	69	83291	17.43	ppb	76
48) Dibromomethane	12.30	93	125248	19.72	ppb	# 82
49) Bromodichloromethane	12.58	83	269573	20.25	ppb	# 96
50) 2-Nitropropane	12.97 13.09	41 70	205182 33.56	2.48	ppb m	(K) 93
52) cis-1,3-Dichloropropene	13.41	75	307437	19.38	ppb	99
53) 4-Methyl-2-Pentanone	13.66	43	175064	17.79	ppb	96
54) Toluene	14.05	91	770734	21.14	ppb	96
55) trans-1,3-Dichloropropene	14.43	75	278174	19.90	ppb	95
56) Ethyl Methacrylate	14.57	69	197538	18.30	ppb	91
57) 1,1,2-Trichloroethane	14.79	83	139802	20.21	ppb	90
61) Tetrachloroethene	15.12	166	182885	21.10	ppb	98
62) 2-Hexanone	15.24	43	121637	18.49	ppb	99
63) 1,3-Dichloropropane	15.12	76	261451	19.55	ppb	99
64) Dibromochloromethane	15.56	129	179404	19.20	ppb	100
65) 1,2-Dibromoethane	15.81	107	161144	19.00	ppb	94
66) Chlorobenzene	16.76	112	498954	20.78	ppb	95
67) 1,1,1,2-Tetrachloroethane	16.90	131	165669	19.39	ppb	97
68) Ethylbenzene	16.95	91	904103	21.49	ppb	97
69) (m+p)Xylene	17.18	106	639392	40.99	ppb	93
70) o-Xylene	17.97	106	314827	20.50	ppb	95
71) Styrene	18.00	104	500435	19.17	ppb	90
72) Bromoform	18.39	173	97362	19.40	ppb	91
73) Isopropylbenzene	18.71	105	818029	20.59	ppb	100
74) Cyclohexanone	18.90	55	364405	338.62	ppb	96
76) 1,1,2,2-Tetrachloroethane	19.28	83	198976	17.26	ppb	99
77) 1,2,3-Trichloropropane	19.39	110	47063	16.95	ppb	94
78) Trans-1,4-Dichloro-2-Buten	19.39	53	60141	23.92	ppb	57
79) n-Propylbenzene	19.54	91	1087405	20.08	ppb	95
80) Bromobenzene	19.37	156	195082	19.29	ppb	96
81) 1,3,5-Trimethylbenzene	19.88	105	669004	19.33	ppb	99
82) 2-Chlorotoluene	19.75	91	629326	19.54	ppb	98
83) 4-Chlorotoluene	19.95	91	634961	19.33	ppb	95
84) tert-Butylbenzene	20.57	119	533358	18.67	ppb	99
85) 1,2,4-Trimethylbenzene	20.66	105	616518	18.13	ppb	99
86) sec-Butylbenzene	21.02	105	853885	18.82	ppb	98
87) p-Isopropyltoluene	21.30	119	701315	19.44	ppb	99

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

B1043.D SOIL0406.M Thu Apr 21 16:25:25 2005

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Page 2

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
Acq On : 21 Apr 105 3:57 pm
Sample : LCS
Misc :
Quant Time: Apr 21 16:25 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration

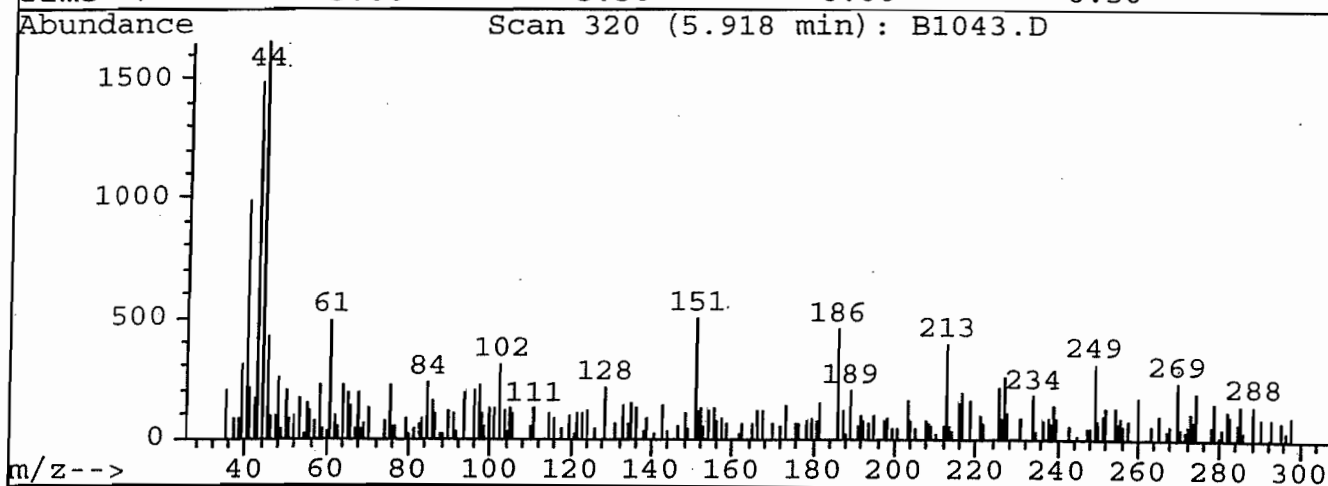
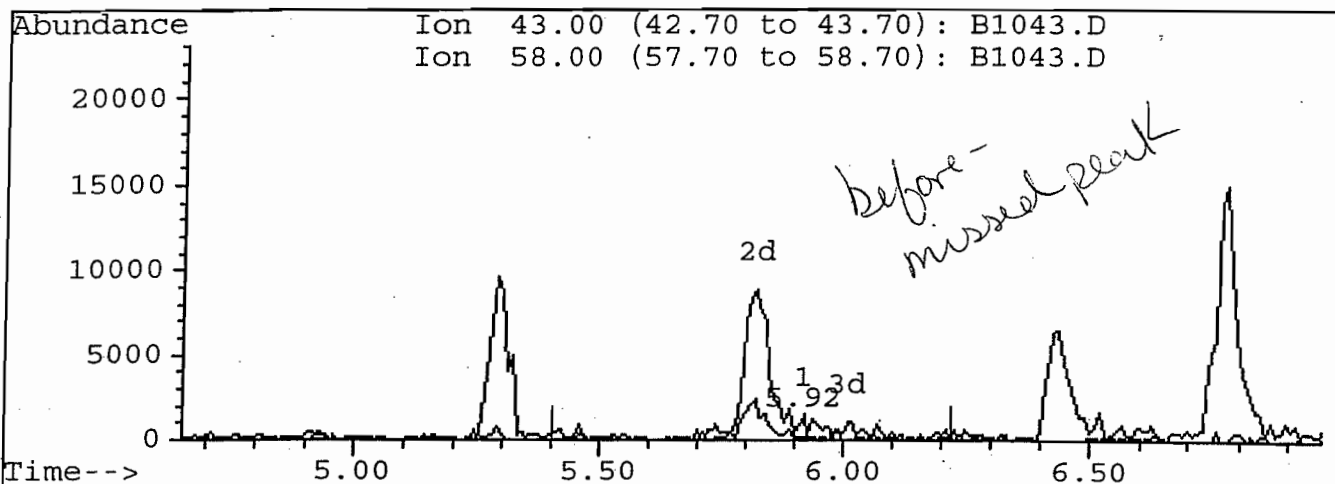
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) 1,3-Dclbenz	21.27	146	354425	19.48	ppb	99
89) 1,4-Dclbenz	21.45	146	352897	19.74	ppb	97
90) n-Butylbenzene	22.15	91	683942	18.52	ppb	98
91) 1,2-Dclbenz	22.23	146	309576	18.73	ppb	93
92) 1,2-Dibromo-3-chloropropan	23.82	157	24261	16.10	ppb	89
94) 1,2,4-Tcbenzene	25.57	180	164041	17.95	ppb	94
95) Hexachlorobt	25.93	225	87775	20.16	ppb	97
96) Naphthalen	26.13	128	324844	16.94	ppb	100
97) 1,2,3-Tclbenzene	26.67	180	146611	18.12	ppb	97

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
Acq On : 21 Apr 105 3:57 pm
Sample : LCS
Misc :
Quant Time: Apr 21 16:25 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1043.D

(12) Acetone

5.92min 1.87ppb

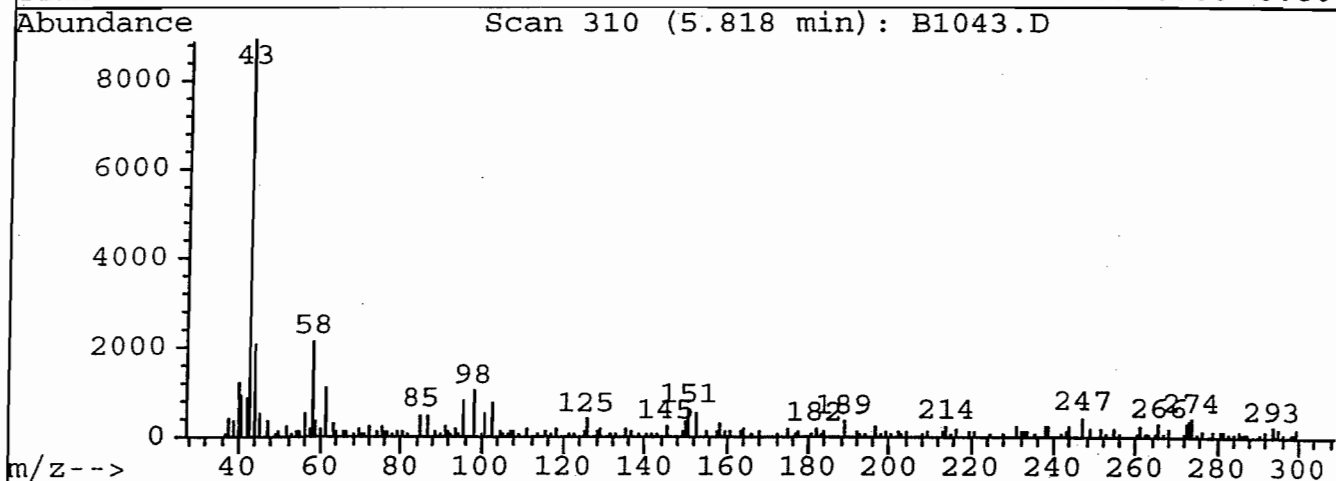
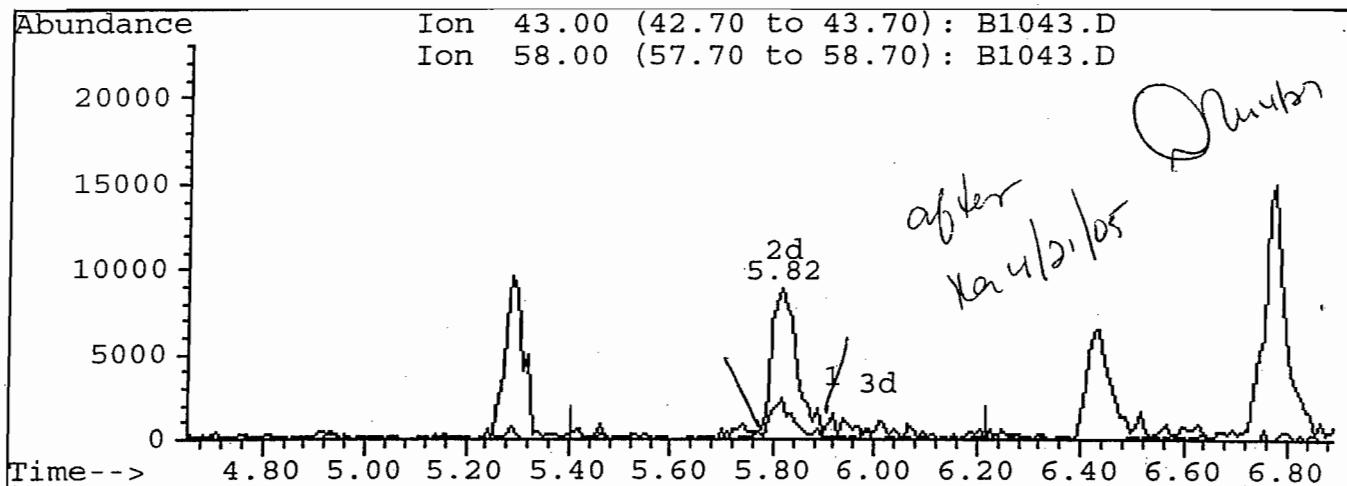
response 3746

Ion	Exp%	Act%
43.00	100	100
58.00	17.90	14.96
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
 Acq On : 21 Apr 105 3:57 pm
 Sample : LCS
 Misc :
 Quant Time: Apr 21 16:50 19105

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1043.D

(12) Acetone

5.82min 16.40ppb m

response 32859

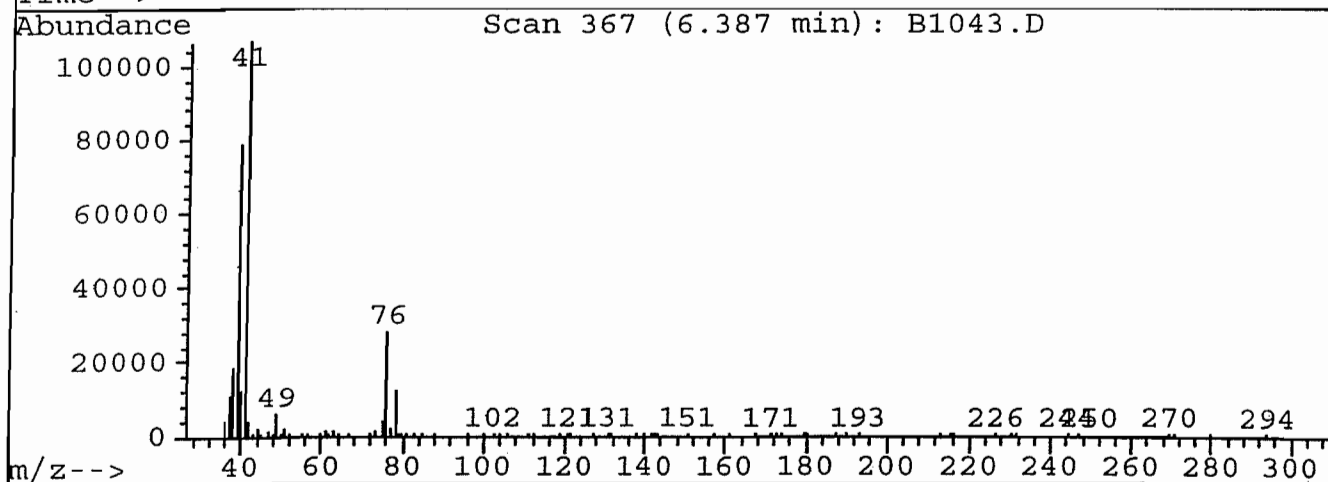
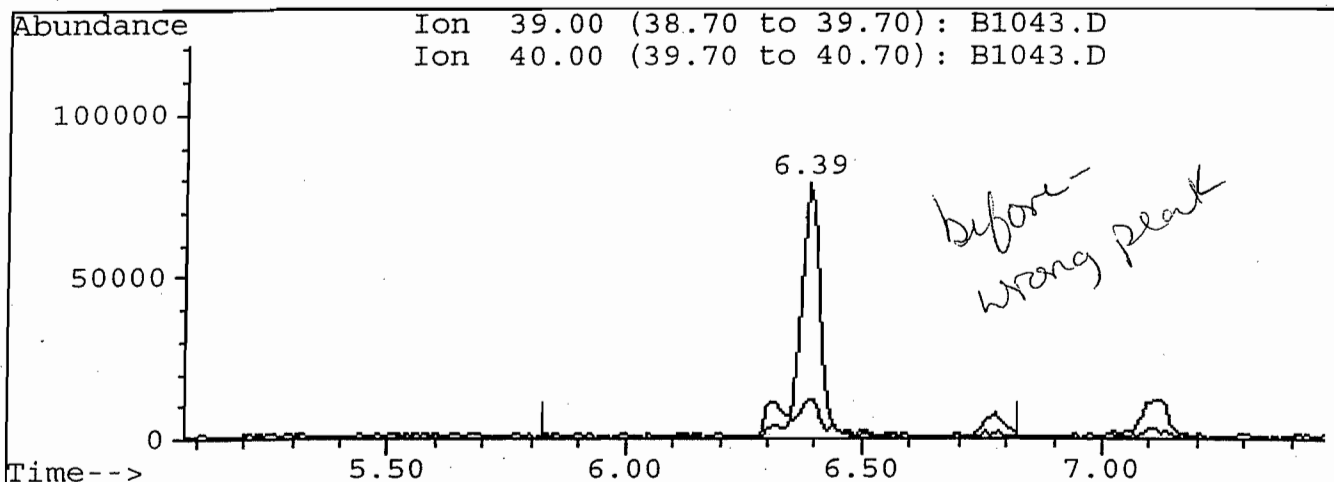
Ion	Exp%	Act%
43.00	100	100
58.00	17.90	23.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
 Acq On : 21 Apr 105 3:57 pm
 Sample : LCS
 Misc :
 Quant Time: Apr 21 16:50 19105

Vial: 35
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1043.D

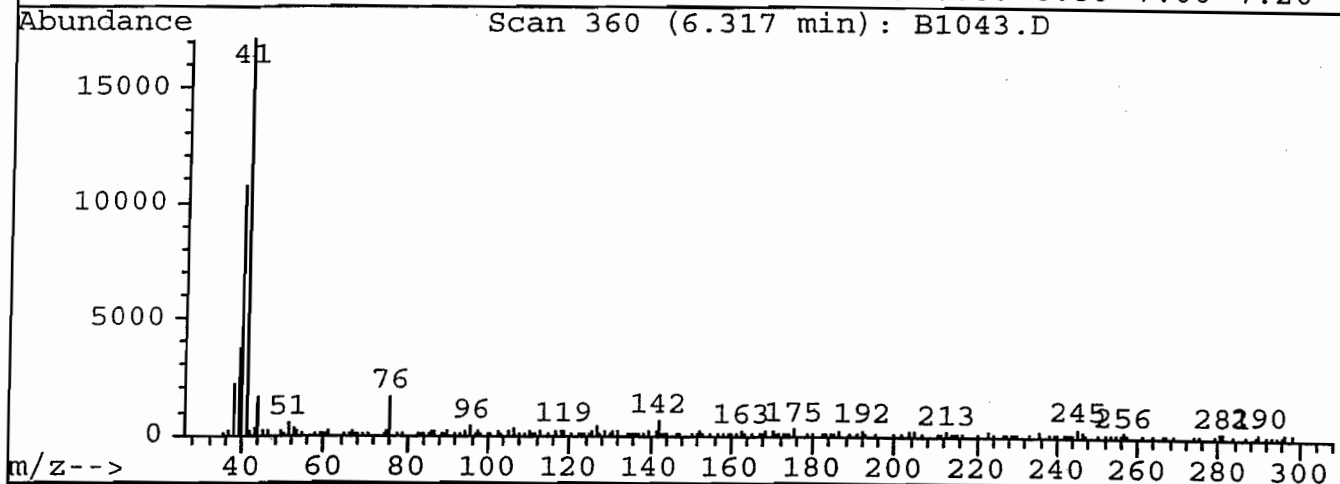
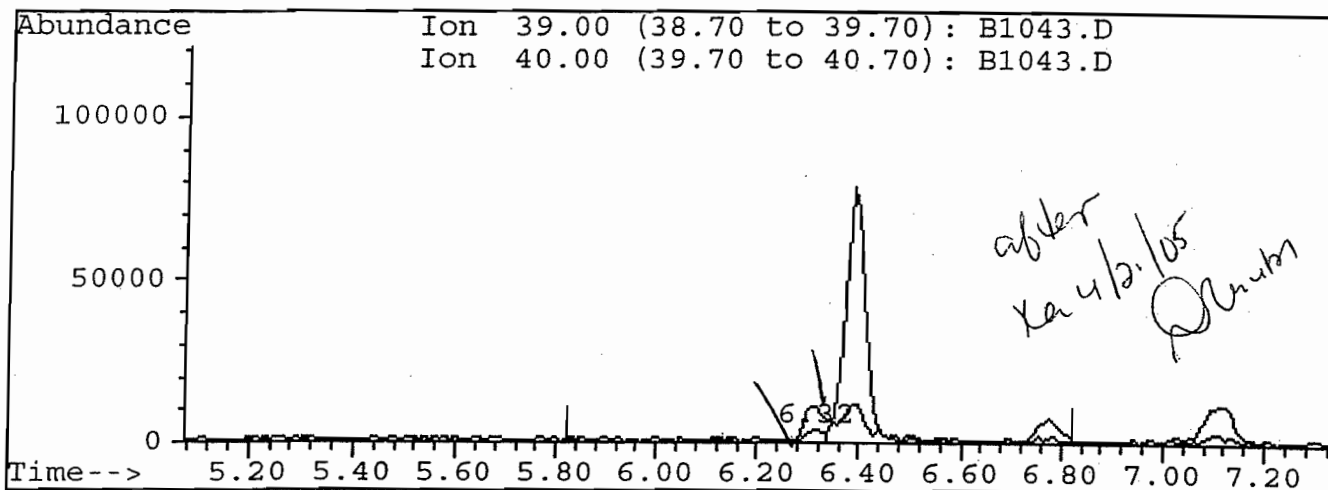
(16) Acetonitrile
 6.39min 1928.33ppb
 response 222027

Ion	Exp%	Act%
39.00	100	100
40.00	222.30	14.97#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
Acq On : 21 Apr 105 3:57 pm
Sample : LCS
Misc :
Quant Time: Apr 21 16:51 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1043.D

(16) Acetonitrile
6.32min 91.71ppb m
response 10559

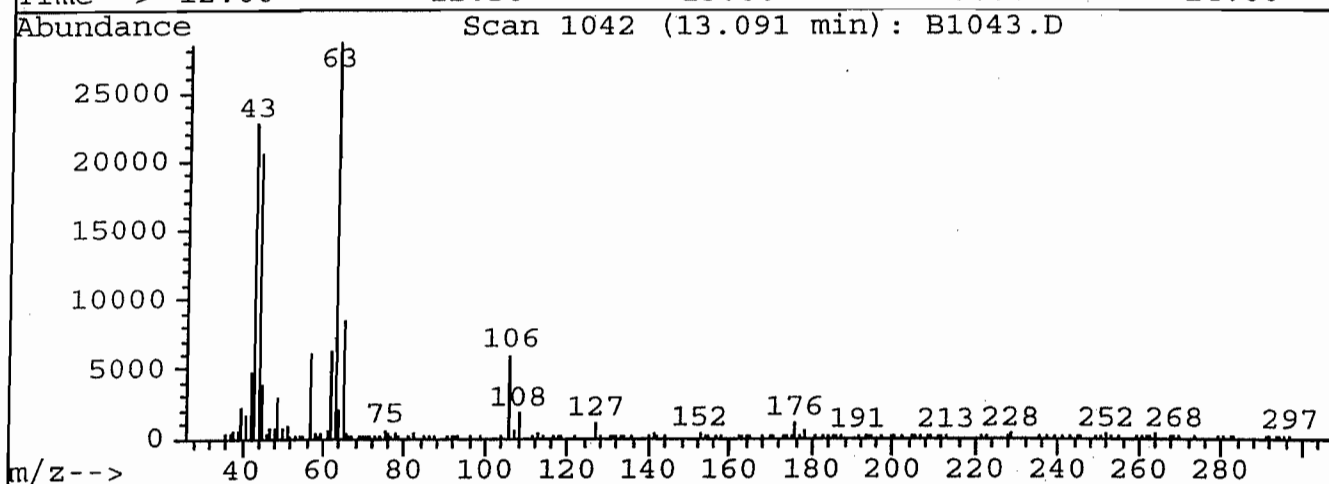
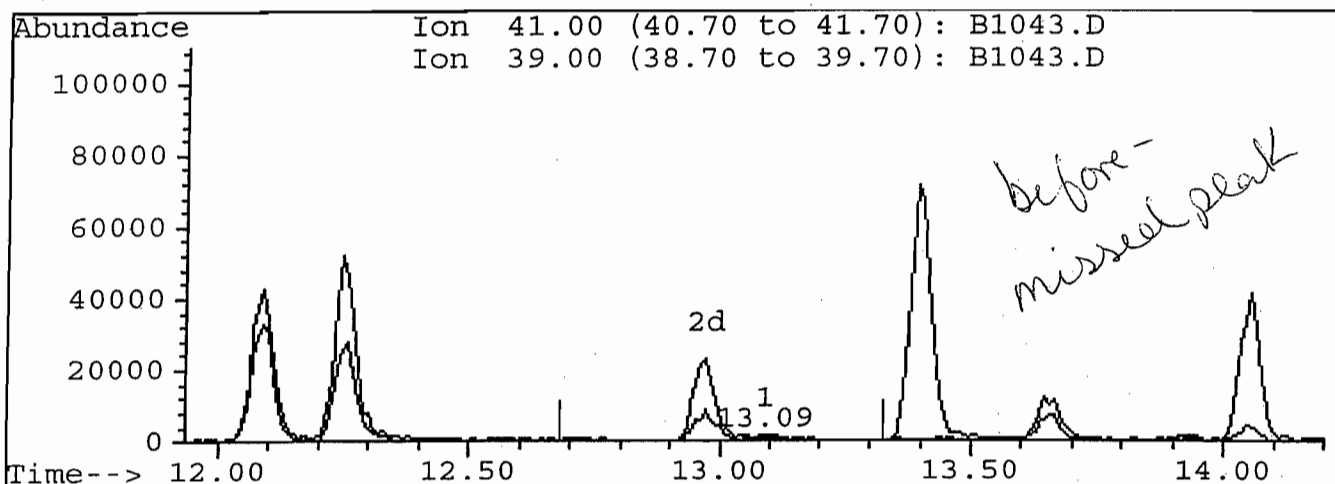
Ion	Exp%	Act%
39.00	100	100
40.00	222.30	291.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D
Acq On : 21 Apr 105 3:57 pm
Sample : LCS
Misc :
Quant Time: Apr 21 16:51 19105

Vial: 35
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1043.D

(50) 2-Nitropropane

13.09min 2.48ppb

response 5182

Ion	Exp%	Act%
41.00	100	100
39.00	30.90	34.58
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D

Vial: 35

Acq On : 21 Apr 105 3:57 pm

Operator: K.ARNOLD

Sample : LCS

Inst : 5971 - In

Misc :

Multiplr: 1.00

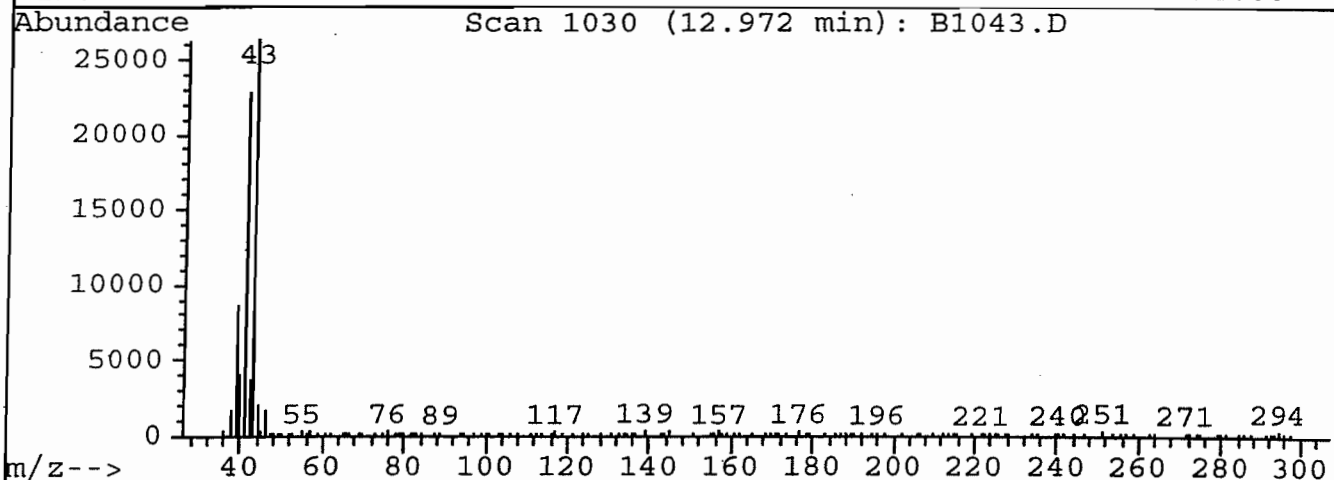
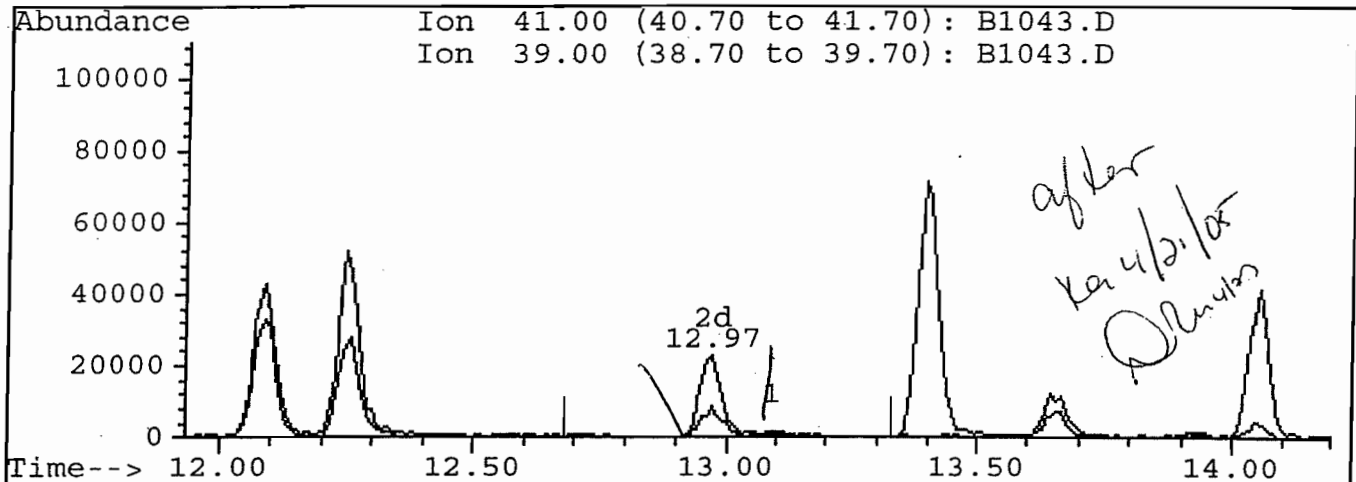
Quant Time: Apr 21 16:52 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M

Title : 8260voa

Last Update : Wed Apr 06 16:36:00 2005

Response via : Multiple Level Calibration



TIC: B1043.D

(50) 2-Nitropropane

12.97min 33.56ppb m

response 70120

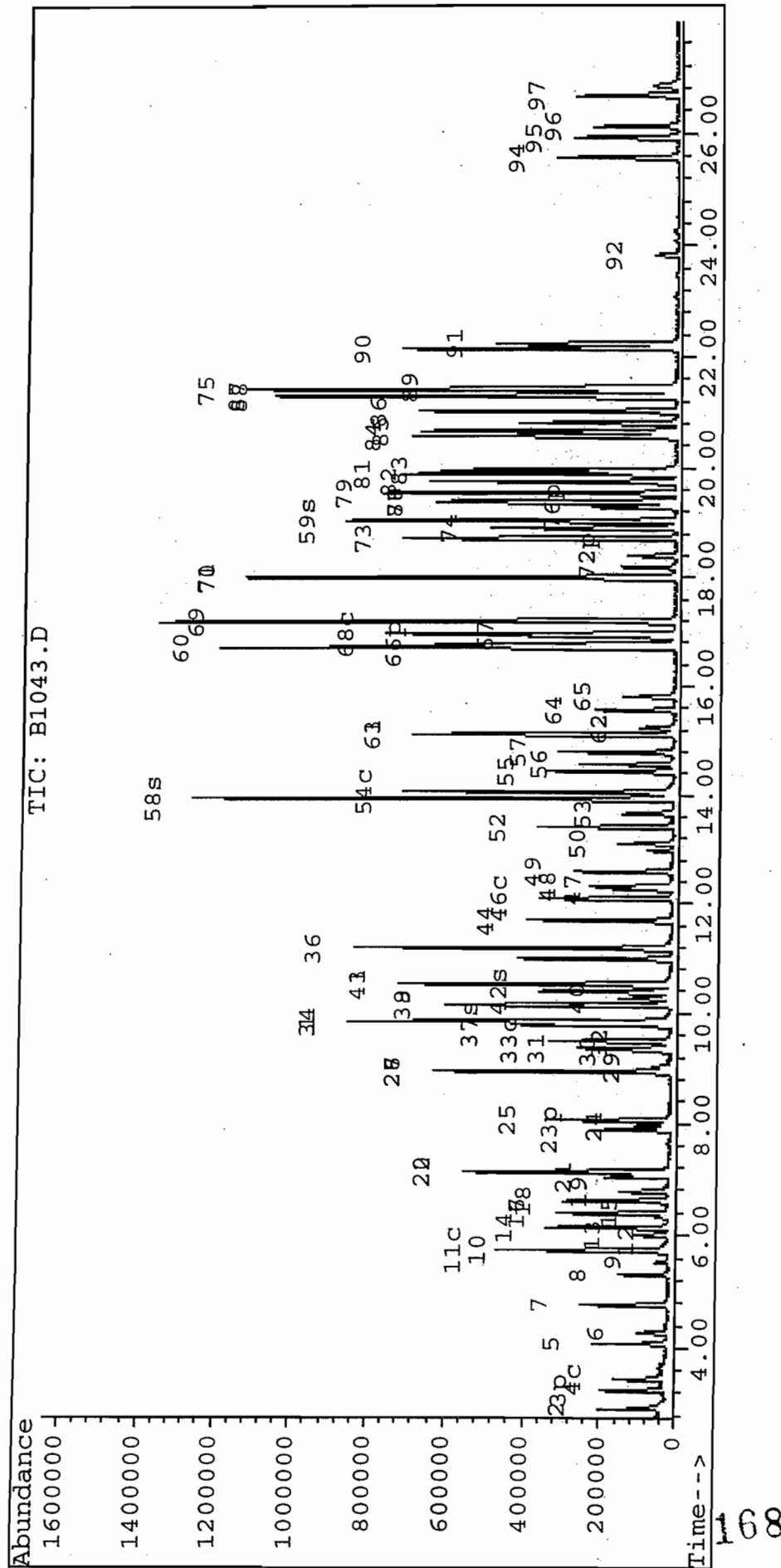
Ion	Exp%	Act%
41.00	100	100
39.00	30.90	37.59
0.00	0.00	0.00
0.00	0.00	0.00

167

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042105\B1043.D Vial: 35
 Acq On : 21 Apr 105 3:57 pm Operator: K.ARNOLD
 Sample : LCS Inst : 5971 - In
 Misc : Multiplr: 1.00
 Quant Time: Apr 21 16:25 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260vov
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/04/07

Project Reference:

Client Sample ID : LABORATORY CONTROL SAMPLE

Date Sampled :	Order #: 809300	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/22/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	20 U	UG/KG
BENZENE	5.0	21	UG/KG
BROMODICHLOROMETHANE	5.0	19	UG/KG
BROMOFORM	5.0	19	UG/KG
BROMOMETHANE	5.0	18	UG/KG
2-BUTANONE (MEK)	10	18	UG/KG
CARBON DISULFIDE	10	20	UG/KG
CARBON TETRACHLORIDE	5.0	21	UG/KG
CHLOROBENZENE	5.0	21	UG/KG
CHLOROETHANE	5.0	21	UG/KG
CHLOROFORM	5.0	19	UG/KG
CHLOROMETHANE	5.0	21	UG/KG
DIBROMOCHLOROMETHANE	5.0	19	UG/KG
1,1-DICHLOROETHANE	5.0	20	UG/KG
1,2-DICHLOROETHANE	5.0	19	UG/KG
1,1-DICHLOROETHENE	5.0	21	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	18	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	20	UG/KG
1,2-DICHLOROPROPANE	5.0	21	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	19	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	18	UG/KG
ETHYLBENZENE	5.0	22	UG/KG
2-HEXANONE	10	19	UG/KG
METHYLENE CHLORIDE	5.0	20	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	19	UG/KG
STYRENE	5.0	20	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	16	UG/KG
TETRACHLOROETHENE	5.0	21	UG/KG
TOLUENE	5.0	21	UG/KG
1,1,1-TRICHLOROETHANE	5.0	19	UG/KG
1,1,2-TRICHLOROETHANE	5.0	19	UG/KG
TRICHLOROETHENE	5.0	20	UG/KG
VINYL CHLORIDE	5.0	21	UG/KG
O-XYLENE	5.0	20	UG/KG
M+P-XYLENE	5.0	41	UG/KG
SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	89	%
TOLUENE-D8	(75 - 128 %)	91	%
DIBROMOFLUOROMETHANE	(62 - 133 %)	81	%

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1071.D
 Acq On : 22 Apr 105 5:48 pm
 Sample : LCS *809300*
 Misc :
 Quant Time: Apr 22 18:16 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Ya 4/21/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.88	168	726564	50.00	ppb	0.03
36) 1,4-Difluorobenzene	11.22	114	1130921	50.00	ppb	0.04
60) d5-Chlorobenze	16.74	117	1046660	50.00	ppb	0.04
75) d4-1,4-Dichlorobenzene	21.44	152	518579	50.00	ppb	0.04
System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.82	113	405004	40.67	ppb	81.33%
42) surr1,1,2-Diclethane	10.43	65	389404	41.01	ppb	82.02%
58) surr3,Toluene-d8	13.96	98	1398322	45.51	ppb	91.02%
59) surr2,bfb	19.08	95	566145	44.44	ppb	88.88%
6) Chloroethane	4.29		117058	21.40	ppb m	Qvalue
Target Compounds						
2) Dichlorodifluoromethane	2.94	85	247482	22.44	ppb	100
3) Chloromethane	3.25	50	241799	21.30	ppb	99
4) Vinyl Chloride	3.46	62	176938	21.14	ppb	92
5) Bromomethane	4.09	94	198461	18.16	ppb	95
7) Trichlorofluoromethane	4.78	101	312779	19.70	ppb	90
8) Diethyl Ether	5.32	59	111318	17.75	ppb	93
9) Acrolein	5.55	56	46565	98.94	ppb	94
10) FREON 113	5.77	85	73848	17.70	ppb	96
11) 1,1-Diclethene	5.76	96	159338	20.77	ppb	93
12) Acetone	5.85	43	41667	16.99	ppb	98
13) Iodomethane	6.03	142	172615	31.58	ppb	*NT 97
14) Carbon Disulfide	6.16	76	655948	20.05	ppb	98
15) Methyl Acetate	6.45	43	24511	12.06	ppb	92
16) Acetonitrile	6.35 6.42	391182	231719	1644.54	ppb	# 84.33 1 m
17) Allyl Chloride	6.42	76	95433	22.17	ppb	88
18) Methylene Chloride	6.64	84	200770	20.15	ppb	96
19) TBA	6.80	59	284873	296.79	ppb	# 92
20) Methyl-t-Butyl Ether	7.14	73	419430	17.51	ppb	95
21) Acrylonitrile	7.07	53	211286	80.39	ppb	97
22) trans-1,2-Dichloroethene	7.15	96	190454	19.53	ppb	# 86
23) 1,1-Diclethane	7.92	63	379696	20.21	ppb	92
24) Vinyl Acetate	8.00	42	19310	16.92	ppb	90
25) 2-Chloro-1,3-butadiene	8.09	53	333037	23.82	ppb	97
26) 2,2-Dichloropropane	8.98	77	306225	18.46	ppb	93
27) 2-Butanone	8.98	43	82318	18.13	ppb	# 70
28) cis-1,2-Dichloroethene	8.97	96	214642	18.43	ppb	96
29) Propionitrile	9.07	54	83273	79.39	ppb	99
30) Methacrylonitrile	9.35	67	42591	14.13	ppb	# 19
31) Bromochloromethane	9.39	128	89165	16.23	ppb	# 79
32) Tetrahydrofuran	9.48	42	47179	14.96	ppb	# 77
33) Chloroform	9.54	83	397637	19.22	ppb	100
34) 1,1,1-Trichloroethane	9.89	97	309870	18.90	ppb	# 45

(#) = qualifier out of range (m) = manual integration
 B1071.D SOIL0406.M Fri Apr 22 18:16:20 2005

170

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1071.D
 Acq On : 22 Apr 105 5:48 pm
 Sample : LCS
 Misc :
 Quant Time: Apr 22 18:16 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbontetrachloride	10.20	117	261870	21.10	ppb	93
39) 1,1-Dichloropropene	10.19	75	279159	19.90	ppb	93
40) Iso-Butyl Alcohol	10.30	43	147789	347.89	ppb	90
41) Benzene	10.56	78	786746	21.26	ppb	98
43) 1,2-Dichloroethane	10.57	62	264342	19.07	ppb	98
44) Trichloroethene	11.72	95	221513	19.94	ppb	89
46) 1,2-Diclpropane	12.12	63	221341	20.74	ppb	99
47) Methyl Methacrylate	12.29	69	88475	16.67	ppb	92
48) Dibromomethane	12.34	93	134292	19.03	ppb	89
49) Bromodichloromethane	12.62	83	284308	19.22	ppb	90
50) 2-Nitropropane	13.01	41	72077	31.05	ppb	99
52) cis-1,3-Dichloropropene	13.44	75	340409	19.32	ppb	99
53) 4-Methyl-2-Pentanone	13.69	43	203530	18.62	ppb	98
54) Toluene	14.09	91	855831	21.13	ppb	95
55) trans-1,3-Dichloropropene	14.47	75	285021	18.35	ppb	98
56) Ethyl Methacrylate	14.61	69	219951	18.34	ppb	96
57) 1,1,2-Trichloroethane	14.82	83	147902	19.24	ppb	88
61) Tetrachloroethene	15.15	166	191143	20.93	ppb	99
62) 2-Hexanone	15.26	43	134651	19.42	ppb	88
63) 1,3-Dichloropropane	15.14	76	282756	20.06	ppb	99
64) Dibromochloromethane	15.60	129	185365	18.82	ppb	98
65) 1,2-Dibromoethane	15.85	107	168498	18.85	ppb	91
66) Chlorobenzene	16.80	112	543293	21.47	ppb	99
67) 1,1,1,2-Tetrachloroethane	16.94	131	190032	21.10	ppb	92
68) Ethylbenzene	16.99	91	998486	22.52	ppb	95
69) (m+p) Xylene	17.22	106	675005	41.06	ppb	94
70) o-Xylene	18.02	106	328601	20.30	ppb	90
71) Styrene	18.05	104	544874	19.80	ppb	98
72) Bromoform	18.44	173	101438	19.18	ppb	95
73) Isopropylbenzene	18.75	105	864718	20.66	ppb	96
74) Cyclohexanone	18.94	55	449754	396.57	ppb	95
76) 1,1,2,2-Tetrachloroethane	19.31	83	213266	16.35	ppb	99
77) 1,2,3-Trichloropropane	19.42	110	49838	15.86	ppb	# 84
78) Trans-1,4-Dichloro-2-Buten	19.43	53	58199	20.46	ppb	71
79) n-Propylbenzene	19.58	91	1152321	18.81	ppb	99
80) Bromobenzene	19.40	156	197679	17.27	ppb	91
81) 1,3,5-Trimethylbenzene	19.92	105	714429	18.25	ppb	95
82) 2-Chlorotoluene	19.78	91	683090	18.75	ppb	97
83) 4-Chlorotoluene	20.00	91	668392	17.98	ppb	100
84) tert-Butylbenzene	20.61	119	579253	17.92	ppb	95
85) 1,2,4-Trimethylbenzene	20.71	105	671427	17.45	ppb	97
86) sec-Butylbenzene	21.06	105	922996	17.98	ppb	96
87) p-Isopropyltoluene	21.34	119	752234	18.42	ppb	97
88) 1,3-Dclbenz	21.32	146	367278	17.84	ppb	90

(#) = qualifier out of range (m) = manual integration
 B1071.D SOIL0406.M Mon Apr 25 12:55:02 2005

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Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1071.D
Acq On : 22 Apr 105 5:48 pm
Sample : LCS
Misc :
Quant Time: Apr 22 18:16 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

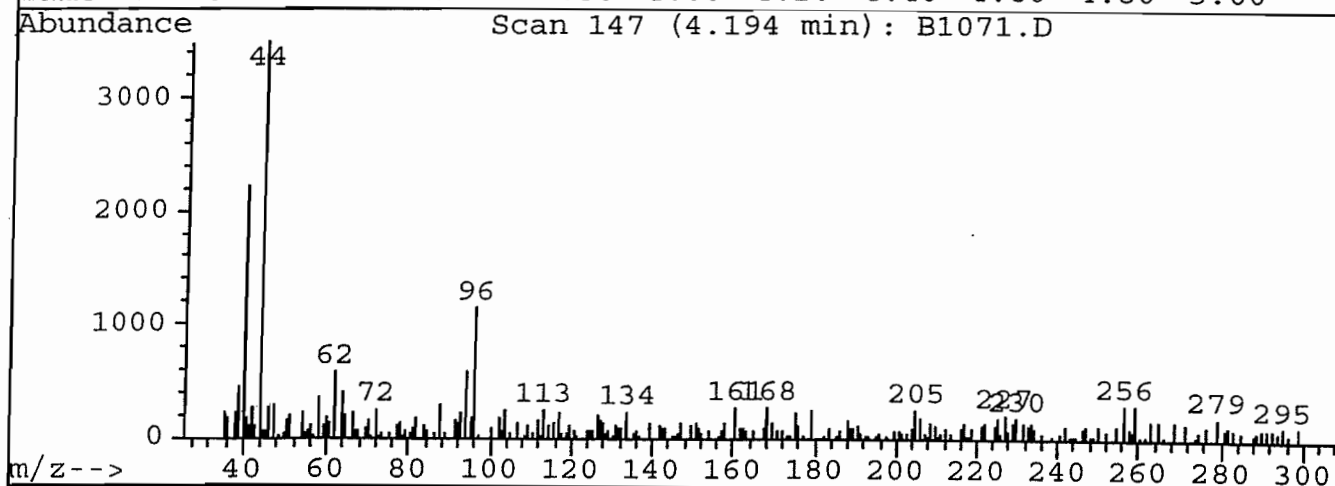
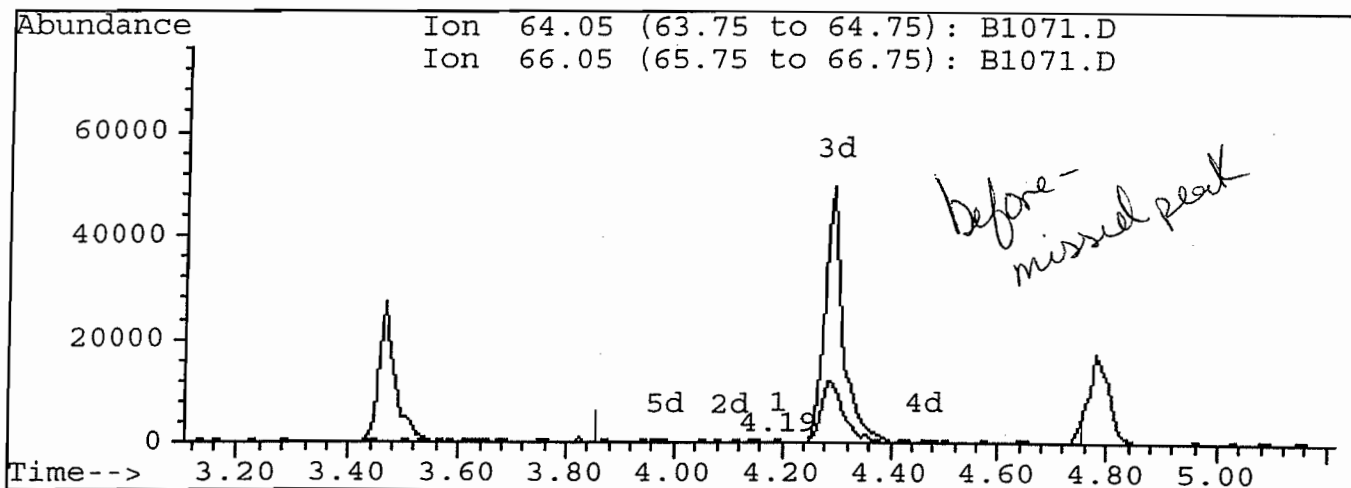
Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
89) 1,4-Dclbenz	21.50	146	359398	17.77 ppb	98
90) n-Butylbenzene	22.19	91	738430	17.67 ppb	99
91) 1,2-Dclbenz	22.28	146	348089	18.62 ppb	90
92) 1,2-Dibromo-3-chloropropan	23.89	157	26595	15.60 ppb	87
94) 1,2,4-Tcbenzene	25.62	180	183064	17.71 ppb	99
95) Hexachlorobt	25.97	225	97832	19.86 ppb	92
96) Naphthalen	26.17	128	347195	16.00 ppb	99
97) 1,2,3-Tclbenzene	26.72	180	169500	18.52 ppb	91

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1071.D
 Acq On : 22 Apr 105 5:48 pm
 Sample : LCS
 Misc :
 Quant Time: Apr 22 18:16 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1071.D

(6) Chloroethane

4.19min 0.23ppb

response 1262

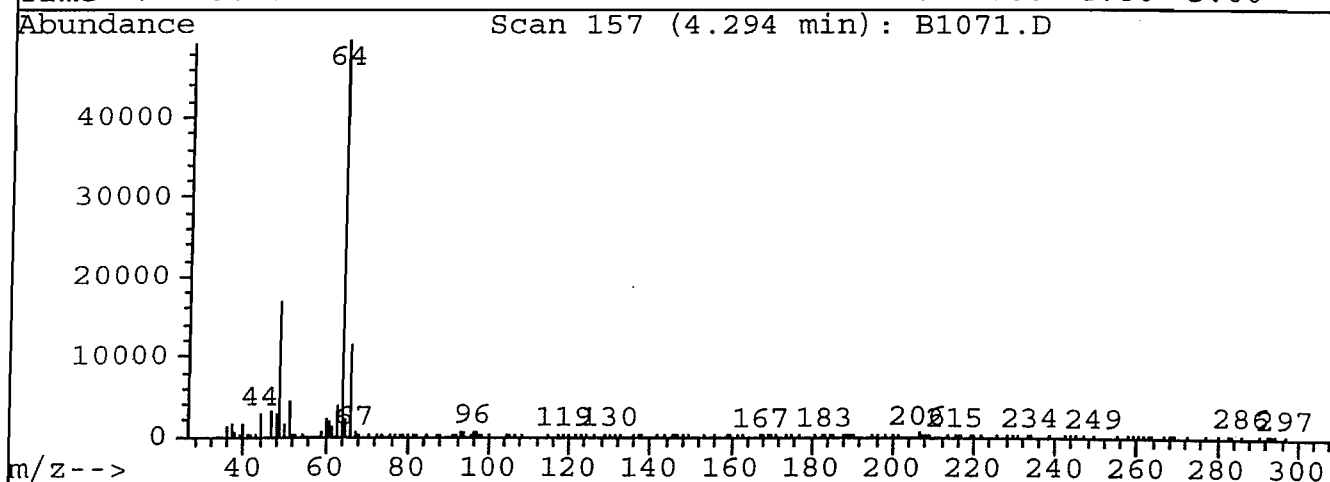
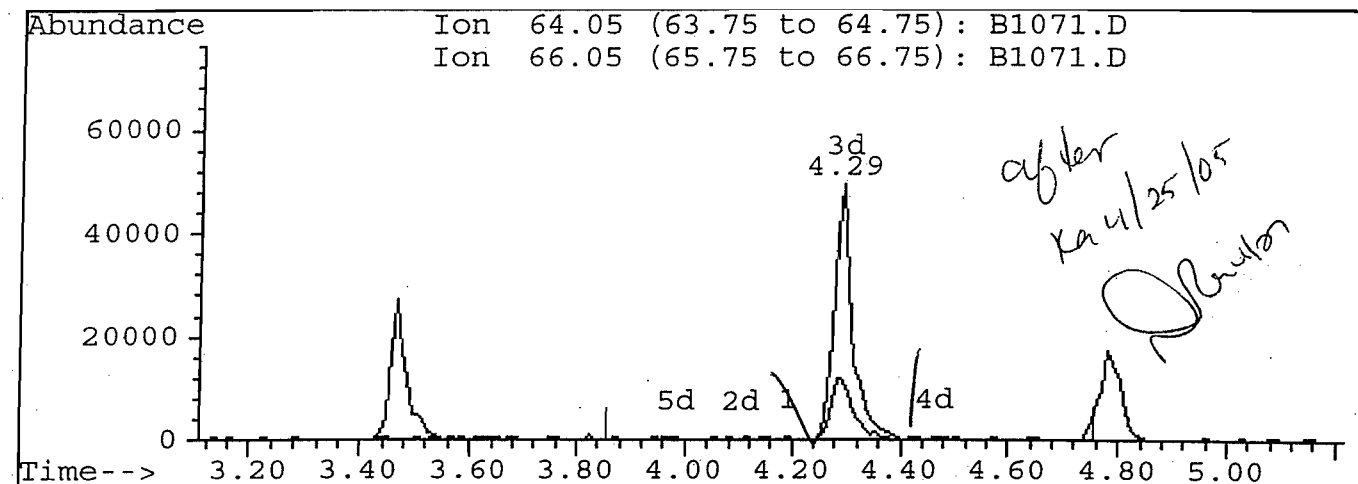
Ion	Exp%	Act%
64.05	100	100
66.05	29.10	34.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1071.D
 Acq On : 22 Apr 105 5:48 pm
 Sample : LCS
 Misc :
 Quant Time: Apr 25 12:56 19105

Vial: 36
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration



TIC: B1071.D

(6) Chloroethane

4.29min 21.40ppb m

response 117058

Ion	Exp%	Act%
64.05	100	100
66.05	29.10	22.73
0.00	0.00	0.00
0.00	0.00	0.00

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1071.D

Vial: 36

Acq On : 22 Apr 105 5:48 pm

Operator: K.ARNOLD

Sample : LCS

Inst : 5971 - Ii

Misc :

Multiplr: 1.00

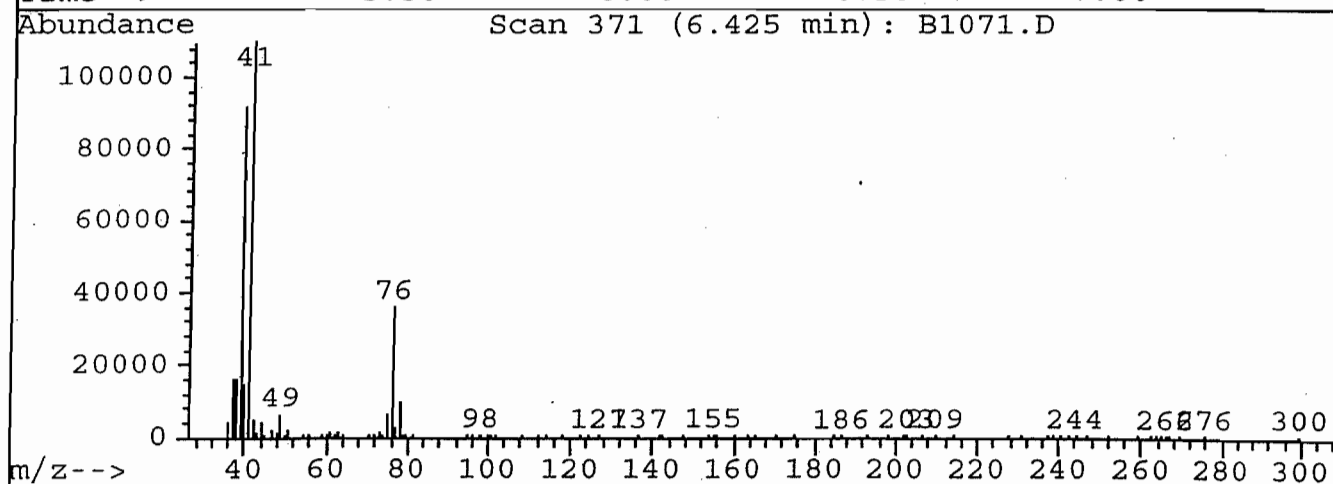
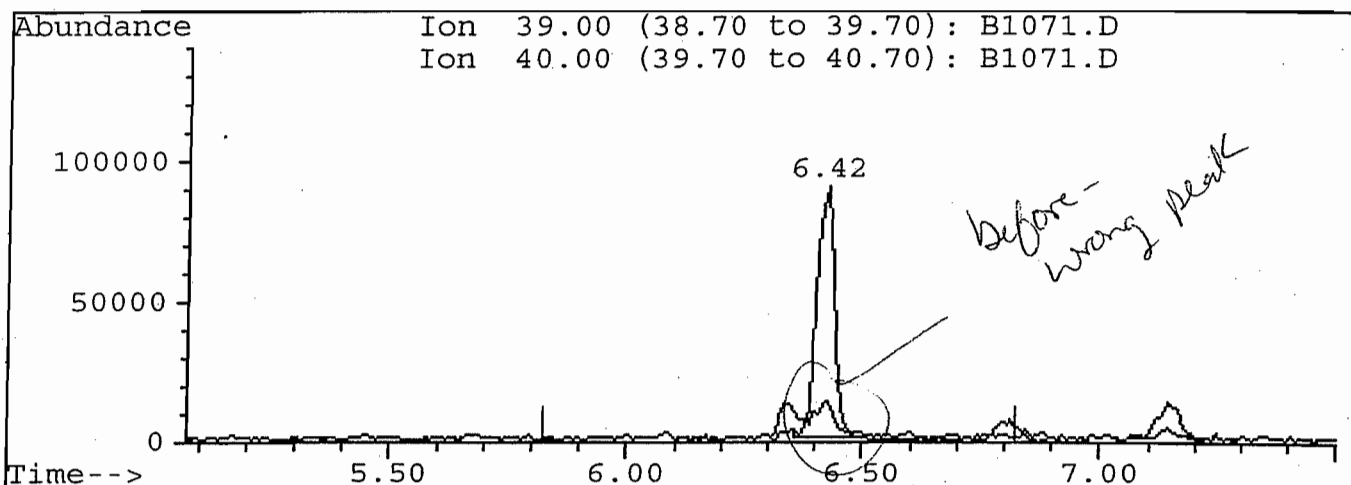
Quant Time: Apr 25 12:56 19105

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M

Title : 8260voa

Last Update : Wed Apr 06 16:36:00 2005

Response via : Multiple Level Calibration



TIC: B1071.D

(16) Acetonitrile

6.42min 1644.54ppb

response 231719

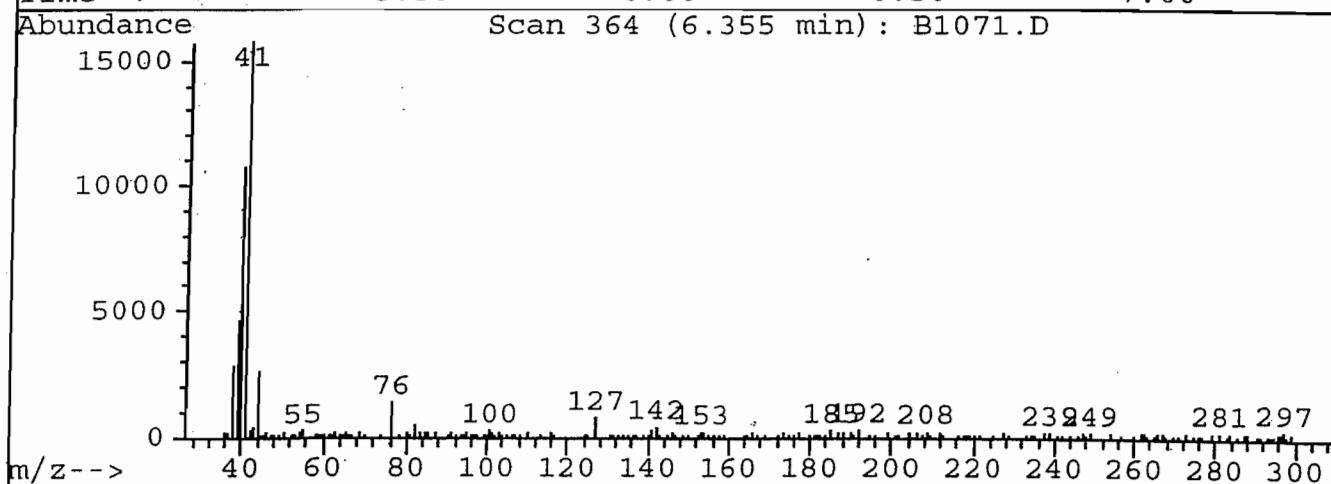
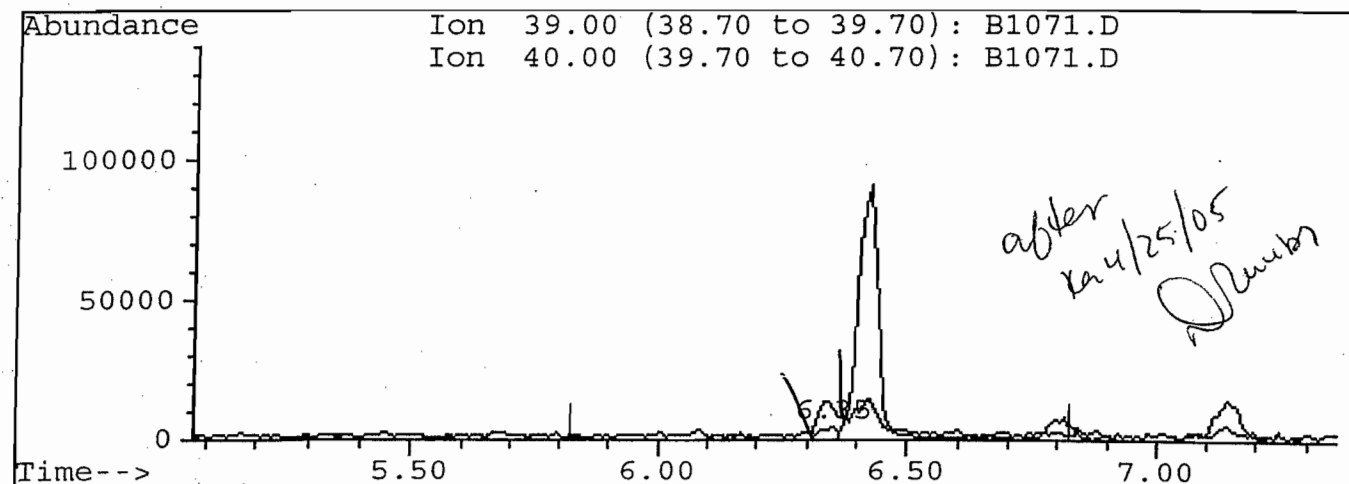
Ion	Exp%	Act%
39.00	100	100
40.00	222.30	16.19#
0.00	0.00	0.00
0.00	0.00	0.00

175

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1071.D
Acq On : 22 Apr 105 5:48 pm
Sample : LCS
Misc :
Quant Time: Apr 25 12:57 19105

Vial: 36
Operator: K.ARNOLD
Inst : 5971 - In
Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration



TIC: B1071.D

(16) Acetonitrile
6.35min 84.33ppb m
response 11882

Ion	Exp%	Act%
39.00	100	100
40.00	222.30	229.77
0.00	0.00	0.00
0.00	0.00	0.00

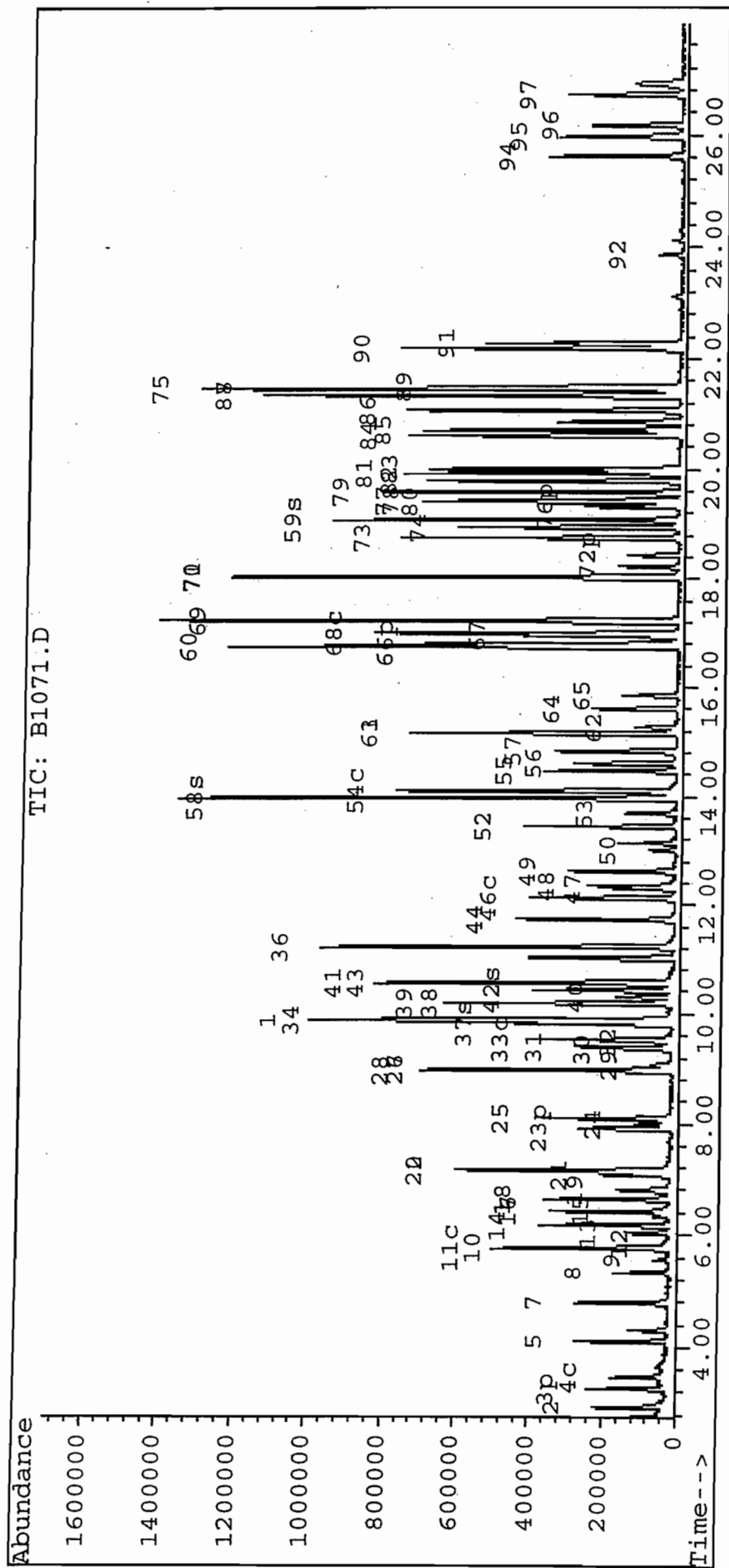
Quantitation Report

```

Data File      : J:\ACQU\DATA\MSVOA5\DATA\042205\B1071.D
Acq On        : 22 Apr 105      5:48 pm
Sample        : LCS
Misc          :
Quant Time    : Apr 22 18:15 18:105
Vial:         36
Operator:     K.ARNOLD
Inst :        5971 - In
Multiplr:    1.00

```

```
Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
Title  : 8260voa
Last Update : Wed Apr 06 16:36:00 2005
Response via : Multiple Level Calibration
```



COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 10/04/07

Project Reference:
Client Sample ID : MATRIX SPIKE

Date Sampled : Order #: 809301 Sample Matrix: SOIL/SEDIMENT
Date Received: Submission #: Percent Solid: 89.6

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 04/22/05			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	54	UG/KG
BENZENE	5.0	56	UG/KG
BROMODICHLOROMETHANE	5.0	56	UG/KG
BROMOFORM	5.0	58	UG/KG
BROMOMETHANE	5.0	56	UG/KG
2-BUTANONE (MEK)	10	56	UG/KG
CARBON DISULFIDE	10	50	UG/KG
CARBON TETRACHLORIDE	5.0	56	UG/KG
CHLOROBENZENE	5.0	57	UG/KG
CHLOROETHANE	5.0	58	UG/KG
CHLOROFORM	5.0	55	UG/KG
CHLOROMETHANE	5.0	60	UG/KG
DIBROMOCHLOROMETHANE	5.0	54	UG/KG
1,1-DICHLOROETHANE	5.0	57	UG/KG
1,2-DICHLOROETHANE	5.0	55	UG/KG
1,1-DICHLOROETHENE	5.0	58	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	52	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	56	UG/KG
1,2-DICHLOROPROPANE	5.0	56	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	55	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	52	UG/KG
ETHYLBENZENE	5.0	57	UG/KG
2-HEXANONE	10	60	UG/KG
METHYLENE CHLORIDE	5.0	58	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	55	UG/KG
STYRENE	5.0	52	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	48	UG/KG
TETRACHLOROETHENE	5.0	54	UG/KG
TOLUENE	5.0	56	UG/KG
1,1,1-TRICHLOROETHANE	5.0	54	UG/KG
1,1,2-TRICHLOROETHANE	5.0	54	UG/KG
TRICHLOROETHENE	5.0	59	UG/KG
VINYL CHLORIDE	5.0	61	UG/KG
O-XYLENE	5.0	55	UG/KG
M+P-XYLENE	5.0	110	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(68 - 128 %)	90	%
TOLUENE-D8	(75 - 128 %)	92	%
DIBROMOFLUOROMETHANE	(62 - 133 %)	82	%

Data File : J:\ACQUDATA\MSVOA5\DATA\042205\B1074.D
 Acq On : 22 Apr 105 7:33 pm
 Sample : 806854 1.0 MS ~~809301~~
 Misc : STERN R25-25779 8260B.TCLH
 Quant Time: Apr 22 20:01 19105

Vial: 39
 Operator: K.ARNOLD
 Inst : 5971 - In
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA5\METHODS\SOIL0406.M
 Title : 8260voa
 Last Update : Wed Apr 06 16:36:00 2005
 Response via : Multiple Level Calibration

164/25/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.88	168	610180	50.00	ppb	0.03
36) 1,4-Difluorobenzene	11.22	114	999310	50.00	ppb	0.04
60) d5-Chlorobenze	16.75	117	943565	50.00	ppb	0.05
75) d4-1,4-Dichlorobenzene	21.45	152	438124	50.00	ppb	0.04

System Monitoring Compounds						%Recovery
37) surr4,Dibrflmethane	9.82	113	361004	41.02	ppb	82.05%
42) surr1,1,2-Diclethane	10.44	65	383633	45.72	ppb	91.44%
58) surr3,Toluene-d8	13.97	98	1245991	45.89	ppb	91.78%
59) surr2,bfb	19.08	95	508484	45.17	ppb	90.34%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.93	85	504605	54.48	ppb	100
3) Chloromethane	3.26	50	518351	54.38	ppb	98
4) Vinyl Chloride	3.46	62	385143	54.78	ppb	98
5) Bromomethane	4.10	94	404114	50.57	ppb	94
6) Chloroethane	4.30	64	239209	52.07	ppb	94
7) Trichlorofluoromethane	4.79	101	662267	49.66	ppb	93
8) Diethyl Ether	5.32	59	254376	48.29	ppb	94
9) Acrolein	5.55	56	92103	178.03	ppb	85
10) FREON 113	5.77	85	161598	46.12	ppb	84
11) 1,1-Diclethene	5.76	96	332818	51.66	ppb	93
12) Acetone	5.84	43	98056	47.61	ppb	95
13) Iodomethane	6.04	142	418642	54.12	ppb	92
14) Carbon Disulfide	6.18	76	1244289	45.29	ppb	97
15) Methyl Acetate	6.45	43	70363	41.21	ppb	95
16) Acetonitrile	6.33	39	30226	255.44	ppb	70
17) Allyl Chloride	6.42	76	206977	57.26	ppb	94
18) Methylene Chloride	6.64	84	437460	52.29	ppb	98
19) TBA	6.80	59	749172	929.39	ppb	# 90
20) Methyl-t-Butyl Ether	7.14	73	977435	48.59	ppb	95
21) Acrylonitrile	7.06	53	534808	242.30	ppb	95
22) trans-1,2-Dichloroethene	7.16	96	406436	49.63	ppb	92
23) 1,1-Diclethane	7.92	63	805611	51.07	ppb	97
24) Vinyl Acetate	8.01 8.11	42 22	58 3511	23.74 3.66	ppb	NT 88
25) 2-Chloro-1,3-butadiene	8.10	53	667359	56.84	ppb	90
26) 2,2-Dichloropropane	8.97	77	641535	46.05	ppb	99
27) 2-Butanone	8.97	43	189679	49.73	ppb	# 86
28) cis-1,2-Dichloroethene	8.97	96	457915	46.82	ppb	97
29) Propionitrile	9.06	54	198528	225.36	ppb	100
30) Methacrylonitrile	9.35	67	124389	49.14	ppb	82
31) Bromochloromethane	9.40	128	208142	45.10	ppb	89
32) Tetrahydrofuran	9.49	42	123425	61.26	ppb	89
33) Chloroform	9.53	83	858025	49.39	ppb	98

(#) = qualifier out of range (m) = manual integration
 B1074.D SOIL0406.M Fri Apr 22 20:01:56 2005