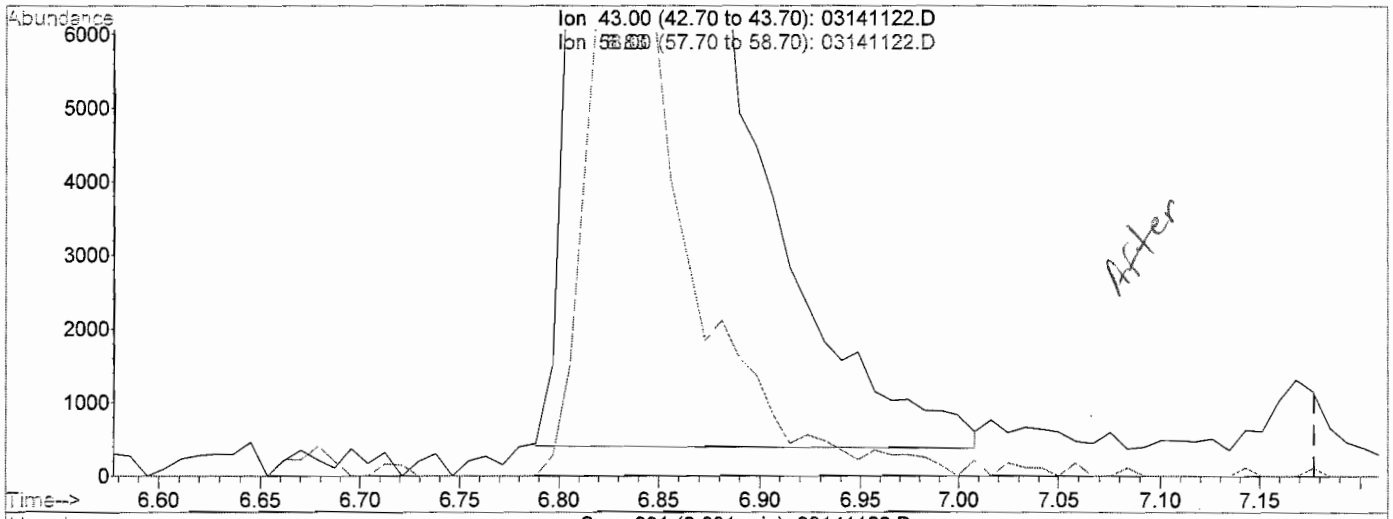
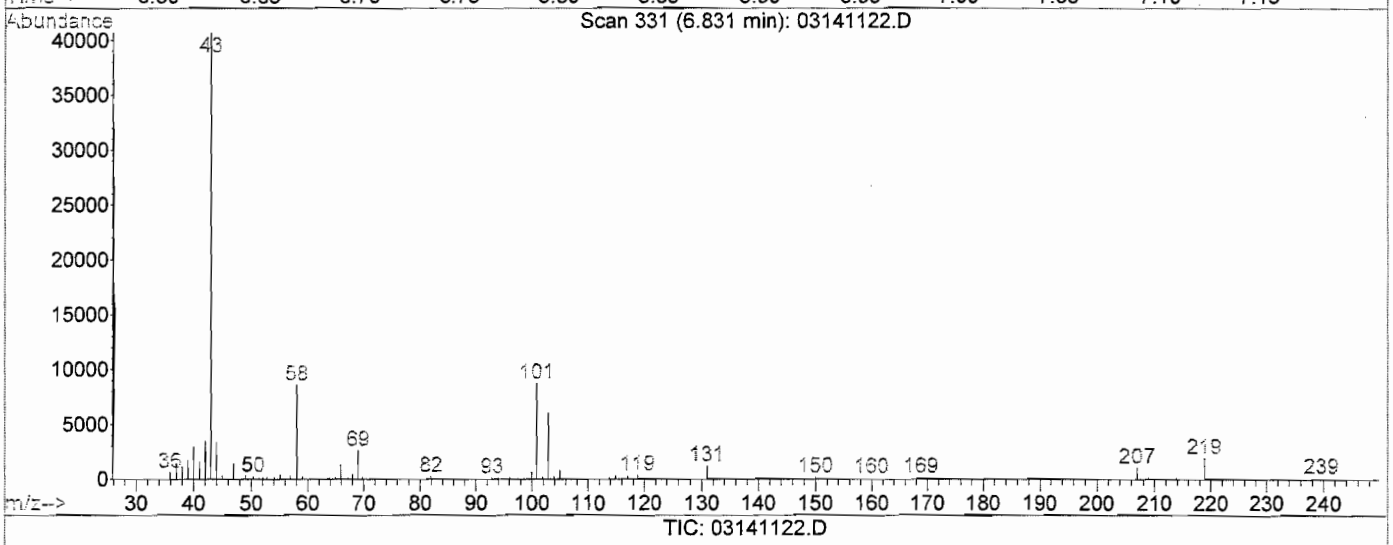
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141122.D Vial: 2
Acq On : 14 Mar 2011 6:01 pm Operator: NL
Sample : BS/ICV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:37 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Multiple Level Calibration





(11) Acetone (T)

6.83min 35.28ug/L m

response 123411

Ion	Exp%	Act%
43.00	100	100
58.00	21.30	22.09
0.00	0.00	0.00
0.00	0.00	0.00

NL

NL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141122.D Vial: 2
Acq On : 14 Mar 2011 6:01 pm Operator: NL
Sample : BS/ICV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:37 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	124354	200.00 ug/L	0.00
4) Pentafluorobenzene	10.48	168	706016	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.61	114	1059053	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	958616	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	484312	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.97	113	399298	24.67 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.68%	
46) Toluene-d8	13.99	98	1164232	24.93 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.72%	
60) 4-Bromofluorobenzene	17.62	95	506259	23.94 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.76%	

Target Compounds					Qvalue
2) Ethanol	5.90	45	28459	574.16 ug/L	98
3) tert-Butanol (TBA)	7.41	59	106678	169.11 ug/L #	94
5) Dichlorodifluoromethane	4.48	85	572815	22.15 ug/L	98
6) Chloromethane	4.78	50	323600	22.05 ug/L	98
7) Vinyl chloride	5.06	62	394350	25.13 ug/L	98
8) Bromomethane	5.67	94	272231	21.51 ug/L	95
9) Chloroethane	5.87	64	331779	24.80 ug/L	99
10) Trichlorofluoromethane	6.68	101	898550	27.89 ug/L	97
11) Acetone	6.83	43	123411m	35.28 ug/L	
12) Iodomethane	7.46	142	475479	30.25 ug/L	89
13) 1,1-Dichloroethene	7.41	96	418883	25.32 ug/L	98
14) Methylene chloride	7.60	84	453568	23.28 ug/L	100
15) Freon 113	7.67	101	520522	25.12 ug/L	99
16) Carbon disulfide	7.93	76	1119644	24.34 ug/L	98
17) trans-1,2-Dichloroethene	8.48	96	452357	24.13 ug/L	99
18) MTBE	8.62	73	797919	23.70 ug/L	100
19) 1,1-Dichloroethane	8.81	63	854999	24.47 ug/L	100
20) Vinyl acetate	8.96	43	594376	36.78 ug/L	100
21) n-Hexane	9.33	86	89710	26.01 ug/L	95
22) 2-Butanone (MEK)	9.35	72	27714	29.75 ug/L #	1
23) Diisopropylether (DIPE)	9.36	45	1560005	24.45 ug/L	98
24) cis-1,2-dichloroethene	9.55	96	461057	22.94 ug/L	99
25) Bromochloromethane	9.76	128	164663	23.70 ug/L	98
26) Chloroform	9.82	83	873342	23.33 ug/L	100
27) 2,2-Dichloropropane	9.93	77	714082	23.72 ug/L	97
28) (ETBE) 2-Ethoxy-2-methyl p	9.88	59	1147307	23.69 ug/L	98
30) 1,2-Dichloroethane	10.66	62	551923	23.58 ug/L	100
31) 1,1,1-Trichloroethane	10.80	97	768193	23.44 ug/L	99
32) (TAME) tert-Amyl methy eth	11.51	73	814111	24.07 ug/L	100
34) 1,1-Dichloropropene	11.03	75	635340	24.14 ug/L	99
35) Carbon tetrachloride	11.27	117	658743	23.65 ug/L	99
36) Benzene	11.32	78	1541707	23.24 ug/L	100
37) Dibromomethane	12.05	93	226718	23.23 ug/L	100
38) 1,2-Dichloropropane	12.10	63	374921	22.43 ug/L	98
39) Trichloroethene	12.15	95	458419	22.28 ug/L	97
40) Bromodichloromethane	12.21	83	575865	22.16 ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141122.D Vial: 2
Acq On : 14 Mar 2011 6:01 pm Operator: NL
Sample : BS/ICV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:37 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

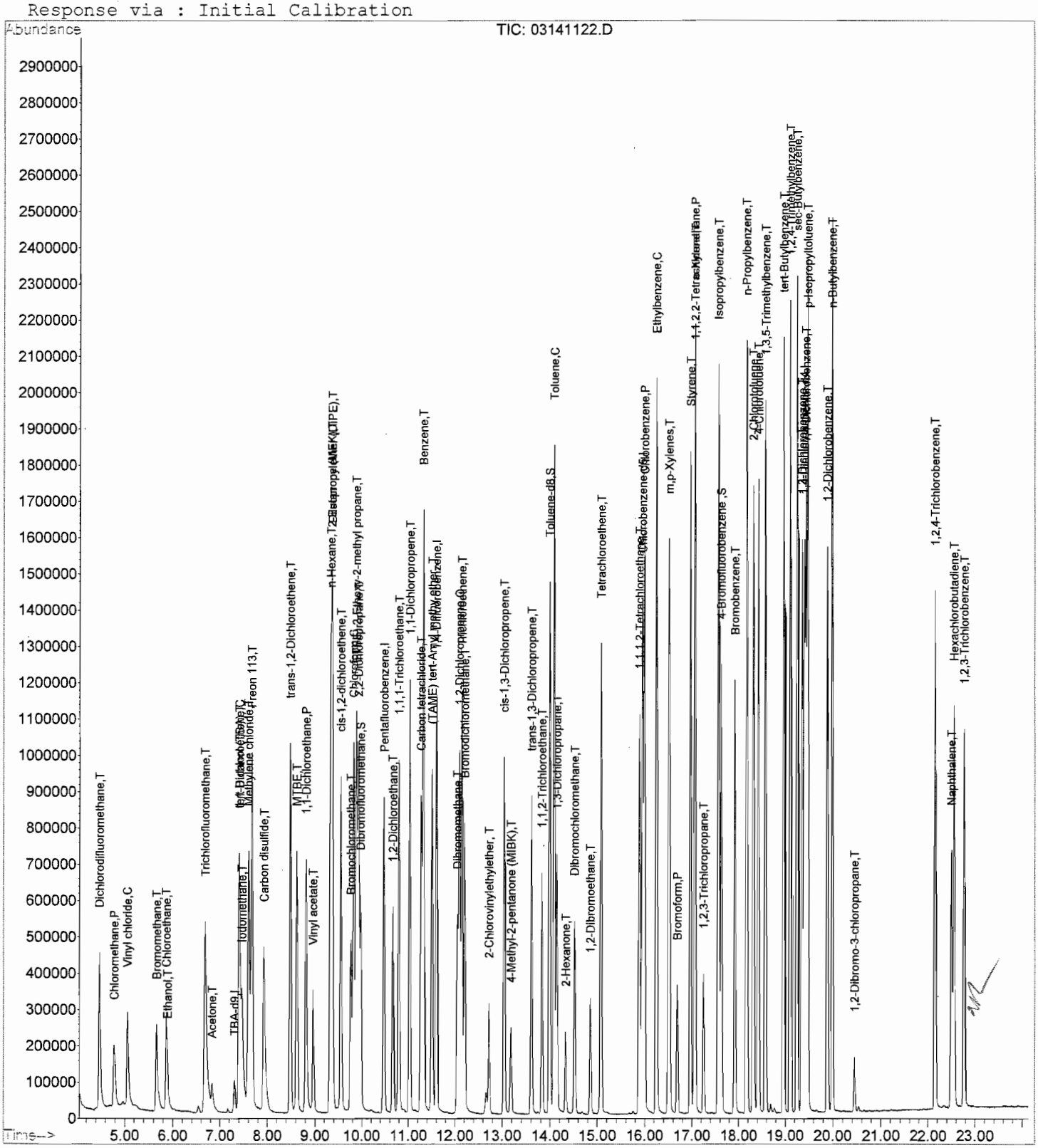
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	132304	24.18 ug/L	98
42)	cis-1,3-Dichloropropene	13.04	75	587320	23.10 ug/L	99
43)	4-Methyl-2-pentanone (MIBK	13.18	43	211506	25.62 ug/L	97
44)	trans-1,3-Dichloropropene	13.61	75	513196	24.53 ug/L	99
45)	1,1,2-Trichloroethane	13.83	97	252639	22.79 ug/L	98
47)	Toluene	14.09	92	921737	22.86 ug/L	100
49)	1,3-Dichloropropane	14.15	76	426003	22.73 ug/L	98
50)	2-Hexanone	14.33	43	190481	32.36 ug/L	99
51)	Dibromochloromethane	14.52	129	344977	23.25 ug/L	98
52)	1,2-Dibromoethane	14.86	107	262260	23.20 ug/L	100
53)	Tetrachloroethene	15.08	164	397258	23.75 ug/L	99
54)	1,1,1,2-Tetrachloroethane	15.88	131	376400	21.98 ug/L	99
55)	Chlorobenzene	15.99	112	1020483	23.18 ug/L	99
56)	Ethylbenzene	16.25	91	1815661	23.05 ug/L	99
57)	m,p-Xylenes	16.51	106	640911	23.10 ug/L	97
58)	Styrene	16.96	104	1026074	24.34 ug/L	99
59)	o-Xylene	17.07	106	606537	24.78 ug/L	95
62)	Bromoform	16.69	173	208945	24.19 ug/L	97
63)	1,1,2,2-Tetrachloroethane	17.05	83	238281	25.47 ug/L	100
64)	1,2,3-Trichloropropane	17.25	110	70538	25.98 ug/L	96
65)	Isopropylbenzene	17.56	105	1742791	28.02 ug/L	100
66)	Bromobenzene	17.93	156	426879	24.82 ug/L	99
67)	n-Propylbenzene	18.17	91	2149723	26.67 ug/L	99
68)	2-Chlorotoluene	18.32	91	1267135	24.91 ug/L	99
69)	4-Chlorotoluene	18.42	91	1309905	25.34 ug/L	100
70)	1,3,5-Trimethylbenzene	18.58	105	1413798	25.34 ug/L	98
71)	tert-Butylbenzene	18.96	119	1165627	25.69 ug/L	99
72)	1,2,4-Trimethylbenzene	19.11	105	1465752	26.22 ug/L	99
73)	sec-Butylbenzene	19.25	105	1860992	26.03 ug/L	100
74)	1,3-Dichlorobenzene	19.36	146	747624	24.26 ug/L	100
75)	1,4-Dichlorobenzene	19.45	146	767403	24.90 ug/L	99
76)	p-Isopropyltoluene	19.48	119	1484315	25.73 ug/L	99
77)	1,2-Dichlorobenzene	19.88	146	671058	24.89 ug/L	100
78)	n-Butylbenzene	19.99	91	1506477	26.01 ug/L	100
79)	1,2-Dibromo-3-chloropropan	20.45	75	38751	22.87 ug/L	96
80)	1,2,4-Trichlorobenzene	22.15	180	596391	27.26 ug/L	100
81)	Naphthalene	22.50	128	706561	27.72 ug/L	98
82)	Hexachlorobutadiene	22.55	225	321549	27.85 ug/L	99
83)	1,2,3-Trichlorobenzene	22.77	180	474453	27.05 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141122.D Vial: 2
Acq On : 14 Mar 2011 6:01 pm Operator: NL
Sample : BS/ICV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:37 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



8260 Continuing Calibration (CCV) Report

Sample Name BS/ICV
Data File Name 03141122.D
Operator NL
Date Acquired 3/14/2011 6:01
Acq. Method File 8260B

Internal Standards	Calib. Response	CCV Response	Low	High	P/F
TBA-d9	125792	124354	62177	248708	TRUE
Pentafluorobenzene	699455	706016	353008	1412032	TRUE
1,4-Difluorobenzene	1014981	1059053	529527	2118106	TRUE
Chlorobenzene-d5	936018	958616	479308	1917232	TRUE
1,4-Dichlorobenzene-d4	492554	484312	242156	968624	TRUE

Compound	Amount	Spiked Amount	% Recovery	Low	High	P/F
Ethanol	574.16	250	229.66	80	140	FALSE NR
tert-Butanol (TBA)	169.11	125	135.29	80	120	FALSE
Dichlorodifluoromethane	22.15	25	88.59	60	150	TRUE
Chloromethane	22.05	25	88.21	60	140	TRUE
Vinyl chloride	25.13	25	100.52	80	120	TRUE
Bromomethane	21.51	25	86.04	70	140	TRUE
Chloroethane	24.80	25	99.21	70	130	TRUE
Trichlorofluoromethane	27.89	25	111.58	70	150	TRUE
Acetone	35.28	25	141.11	10	150	TRUE
Iodomethane	30.25	25	120.99	70	140	TRUE
1,1-Dichloroethene	25.32	25	101.29	80	120	TRUE
Methylene chloride	23.28	25	93.11	70	120	TRUE
Freon 113	25.12	25	100.47	60	140	TRUE
Carbon disulfide	24.34	25	97.38	70	130	TRUE
trans-1,2-Dichloroethene	24.13	25	96.52	80	120	TRUE
MTBE	23.70	25	94.81	70	130	TRUE
1,1-Dichloroethane	24.47	25	97.90	70	125	TRUE
Vinyl acetate	36.78	25	147.12	40	150	TRUE
n-Hexane	26.01	25	104.05	70	130	TRUE
2-Butanone (MEK)	29.75	25	119.00	40	150	TRUE
Diisopropylether (DIPE)	24.45	25	97.82	80	130	TRUE
cis-1,2-dichloroethene	22.94	25	91.76	80	120	TRUE
Bromochloromethane	23.70	25	94.80	80	120	TRUE
Chloroform	23.33	25	93.31	80	120	TRUE
2,2-Dichloropropane	23.72	25	94.89	80	130	TRUE
:TBE) 2-Ethoxy-2-methyl propai	23.69	25	94.75	80	130	TRUE
Dibromofluoromethane	24.67	25	98.67	80	120	TRUE
1,2-Dichloroethane	23.58	25	94.33	75	130	TRUE
1,1,1-Trichloroethane	23.44	25	93.78	80	120	TRUE
(TAME) tert-Amyl methy ether	24.07	25	96.28	80	130	TRUE
1,1-Dichloropropene	24.14	25	96.57	80	120	TRUE
Carbon tetrachloride	23.65	25	94.60	80	130	TRUE
Benzene	23.24	25	92.96	80	120	TRUE

NL 3/15/11

Dibromomethane	23.23	25	92.92	80	120	TRUE
1,2-Dichloropropane	22.43	25	89.71	80	120	TRUE
Trichloroethene	22.28	25	89.12	80	120	TRUE
Bromodichloromethane	22.16	25	88.63	80	120	TRUE
2-Chlorovinylethylether	24.18	25	96.72	70	135	TRUE
cis-1,3-Dichloropropene	23.10	25	92.39	80	120	TRUE
4-Methyl-2-pentanone (MIBK)	25.62	25	102.49	60	130	TRUE
trans-1,3-Dichloropropene	24.53	25	98.13	80	125	TRUE
1,1,2-Trichloroethane	22.79	25	91.16	80	120	TRUE
Toluene-d8	24.93	25	99.70	80	120	TRUE
Toluene	22.86	25	91.45	80	120	TRUE
1,3-Dichloropropane	22.73	25	90.90	80	120	TRUE
2-Hexanone	32.36	25	129.46	20	150	TRUE
Dibromochloromethane	23.25	25	93.01	80	120	TRUE
1,2-Dibromoethane	23.20	25	92.78	80	120	TRUE
Tetrachloroethene	23.75	25	95.01	70	130	TRUE
1,1,1,2-Tetrachloroethane	21.98	25	87.92	80	120	TRUE
Chlorobenzene	23.18	25	92.72	80	120	TRUE
Ethylbenzene	23.05	25	92.20	80	120	TRUE
m,p-Xylenes	23.10	25	92.38	60	140	TRUE
Styrene	24.34	25	97.36	80	120	TRUE
o-Xylene	24.78	25	99.14	80	120	TRUE
4-Bromofluorobenzene	23.94	25	95.77	80	120	TRUE
Bromoform	24.19	25	96.76	80	120	TRUE
1,1,2,2-Tetrachloroethane	25.47	25	101.87	80	120	TRUE
1,2,3-Trichloropropane	25.98	25	103.90	70	130	TRUE
Isopropylbenzene	28.02	25	112.07	80	130	TRUE
Bromobenzene	24.82	25	99.26	80	120	TRUE
n-Propylbenzene	26.67	25	106.69	75	130	TRUE
2-Chlorotoluene	24.91	25	99.64	80	120	TRUE
4-Chlorotoluene	25.34	25	101.35	80	120	TRUE
1,3,5-Trimethylbenzene	25.34	25	101.38	80	130	TRUE
tert-Butylbenzene	25.69	25	102.75	80	120	TRUE
1,2,4-Trimethylbenzene	26.22	25	104.88	80	120	TRUE
sec-Butylbenzene	26.03	25	104.13	80	125	TRUE
1,3-Dichlorobenzene	24.26	25	97.03	80	120	TRUE
1,4-Dichlorobenzene	24.90	25	99.58	80	120	TRUE
p-Isopropyltoluene	25.73	25	102.93	80	130	TRUE
1,2-Dichlorobenzene	24.89	25	99.55	80	120	TRUE
n-Butylbenzene	26.01	25	104.03	80	130	TRUE
1,2-Dibromo-3-chloropropane	22.87	25	91.46	50	150	TRUE
1,2,4-Trichlorobenzene	27.26	25	109.05	50	150	TRUE
Naphthalene	27.72	25	110.86	40	150	TRUE
Hexachlorobutadiene	27.85	25	111.42	40	150	TRUE
1,2,3-Trichlorobenzene	27.05	25	108.22	60	140	TRUE

Evaluate Continuing Calibration Report

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Acq On : 14 Mar 2011 6:01 pm Operator: NL
Sample : BS/ICV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	99	0.00
2	T	Ethanol	0.080	0.183	-128.8#	223#	0.00
3	T	tert-Butanol (TBA)	1.108	1.373	-23.9	141	0.00
4	I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
5	T	Dichlorodifluoromethane	0.916	0.811	11.5	89	0.00
6	P	Chloromethane	0.520	0.458	11.9	103	0.00
7	C	Vinyl chloride	0.556	0.559	-0.5	104	0.00
8	T	Bromomethane	0.401	0.386	3.7	93	0.00
9	T	Chloroethane	0.474	0.470	0.8	101	0.00
10	T	Trichlorofluoromethane	1.141	1.273	-11.6	111	0.00
11	T	Acetone	0.124	0.175	-41.1#	164#	0.00
12	T	Iodomethane	0.459	0.673	-46.6#	128	0.00
13	C	1,1-Dichloroethene	0.586	0.593	-1.2	107	0.00
14	T	Methylene chloride	0.690	0.642	7.0	100	0.00
15	T	Freon 113	0.734	0.737	-0.4	101	0.00
16	T	Carbon disulfide	1.629	1.586	2.6	111	0.00
17	T	trans-1,2-Dichloroethene	0.664	0.641	3.5	104	0.00
18	T	MTBE	1.192	1.130	5.2	96	0.00
19	P	1,1-Dichloroethane	1.237	1.211	2.1	102	0.00
20	T	Vinyl acetate	0.572	0.842	-47.2#	143	0.00
21	T	n-Hexane	0.122	0.127	-4.1	106	0.00
22	T	2-Butanone (MEK)	0.033	0.039	-18.2	129	0.00
23	T	Diisopropylether (DIPE)	2.259	2.210	2.2	100	0.00
24	T	cis-1,2-dichloroethene	0.712	0.653	8.3	96	0.00
25	T	Bromochloromethane	0.246	0.233	5.3	96	0.00
26	C	Chloroform	1.326	1.237	6.7	99	0.00
27	T	2,2-Dichloropropane	1.066	1.011	5.2	103	0.00
28	T	(ETBE) 2-Ethoxy-2-methyl pr	1.715	1.625	5.2	95	0.00
29	S	Dibromofluoromethane	0.573	0.566	1.2	99	0.00
30	T	1,2-Dichloroethane	0.829	0.782	5.7	97	0.00
31	T	1,1,1-Trichloroethane	1.160	1.088	6.2	97	0.00
32	T	(TAME) tert-Amyl methy ethe	1.198	1.153	3.8	97	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
34	T	1,1-Dichloropropene	0.621	0.600	3.4	104	0.00
35	T	Carbon tetrachloride	0.657	0.622	5.3	100	0.00
36	T	Benzene	1.566	1.456	7.0	102	0.00
37	T	Dibromomethane	0.230	0.214	7.0	97	0.00
38	C	1,2-Dichloropropane	0.395	0.354	10.4	96	0.00
39	T	Trichloroethene	0.486	0.433	10.9	95	0.00
40	T	Bromodichloromethane	0.614	0.544	11.4	94	0.00
41	T	2-Chlorovinylethylether	0.129	0.125	3.1	97	0.00
42	T	cis-1,3-Dichloropropene	0.600	0.555	7.5	97	0.00
43	T	4-Methyl-2-pentanone (MIBK)	0.195	0.200	-2.6	104	0.00
44	T	trans-1,3-Dichloropropene	0.494	0.485	1.8	100	0.00
45	T	1,1,2-Trichloroethane	0.262	0.239	8.8	96	0.00
46	S	Toluene-d8	1.103	1.099	0.4	103	0.00
47	C	Toluene	0.952	0.870	8.6	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

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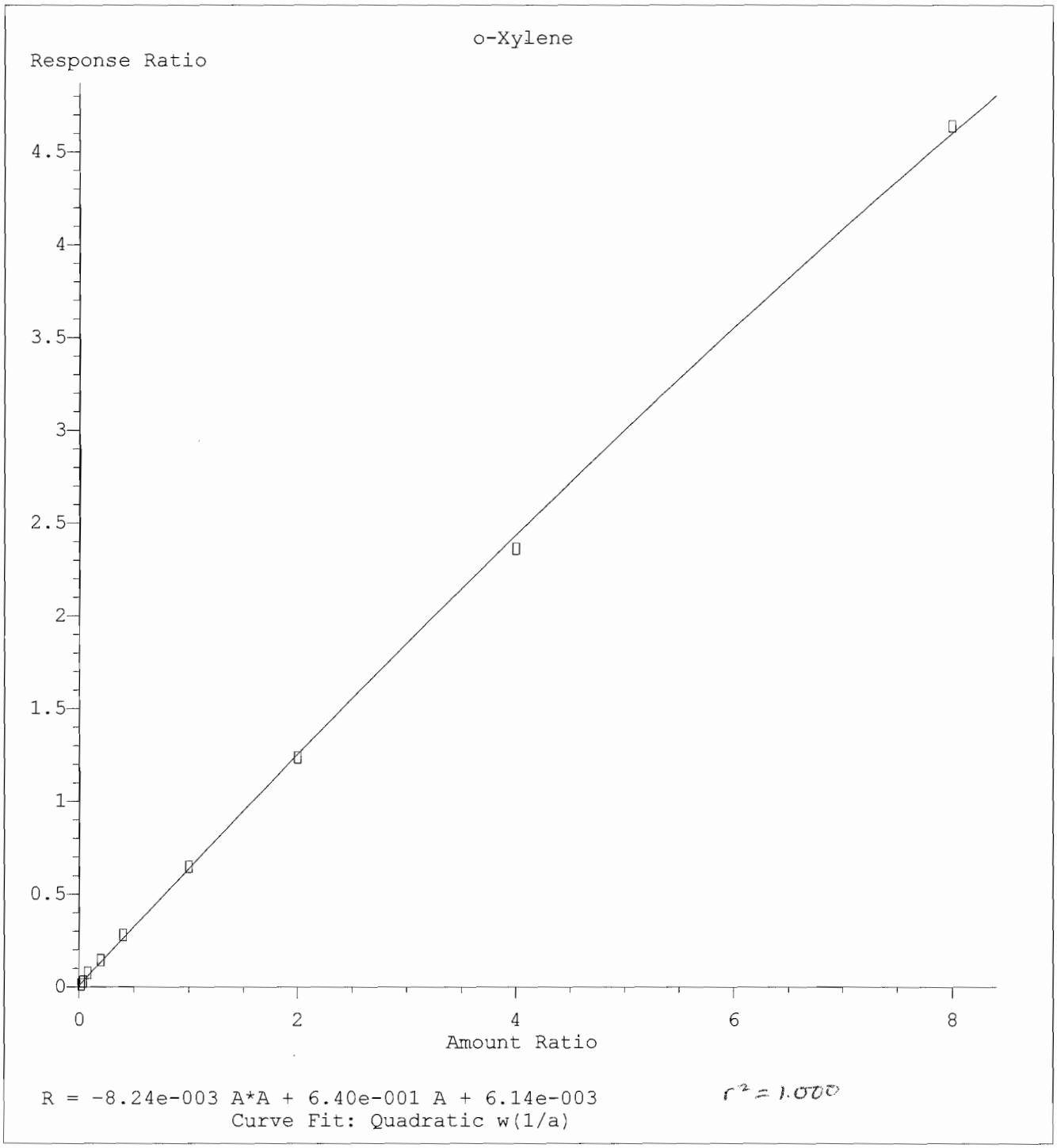
Acq On : 14 Mar 2011 6:01 pm Operator: NL
Sample : BS/ICV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,3-Dichloropropane	0.489	0.444	9.2	96	0.00
50	T	2-Hexanone	0.153	0.199	-30.1#	145	0.00
51	T	Dibromochloromethane	0.387	0.360	7.0	96	0.00
52	T	1,2-Dibromoethane	0.295	0.274	7.1	97	0.00
53	T	Tetrachloroethene	0.436	0.414	5.0	105	0.00
54	T	1,1,1,2-Tetrachloroethane	0.447	0.393	12.1	100	0.00
55	P	Chlorobenzene	1.148	1.065	7.2	101	0.00
56	C	Ethylbenzene	2.054	1.894	7.8	98	0.00
57	T	m,p-Xylenes	0.724	0.669	7.6	102	0.00
58	T	Styrene	1.099	1.070	2.6	102	0.00
59	T	o-Xylene	0.692	0.633	8.5	100	0.00
60	S	4-Bromofluorobenzene	0.551	0.528	4.2	100	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
62	P	Bromoform	0.446	0.431	3.4	89	0.00
63	P	1,1,2,2-Tetrachloroethane	0.483	0.492	-1.9	97	0.00
64	T	1,2,3-Trichloropropane	0.140	0.146	-4.3	100	0.00
65	T	Isopropylbenzene	3.211	3.598	-12.1	109	0.00
66	T	Bromobenzene	0.888	0.881	0.8	97	0.00
67	T	n-Propylbenzene	4.160	4.439	-6.7	106	0.00
68	T	2-Chlorotoluene	2.626	2.616	0.4	100	0.00
69	T	4-Chlorotoluene	2.669	2.705	-1.3	102	0.00
70	T	1,3,5-Trimethylbenzene	2.879	2.919	-1.4	101	0.00
71	T	tert-Butylbenzene	2.342	2.407	-2.8	102	0.00
72	T	1,2,4-Trimethylbenzene	2.886	3.026	-4.9	103	0.00
73	T	sec-Butylbenzene	3.690	3.843	-4.1	102	0.00
74	T	1,3-Dichlorobenzene	1.591	1.544	3.0	99	0.00
75	T	1,4-Dichlorobenzene	1.591	1.585	0.4	101	0.00
76	T	p-Isopropyltoluene	2.978	3.065	-2.9	102	0.00
77	T	1,2-Dichlorobenzene	1.392	1.386	0.4	98	0.00
78	T	n-Butylbenzene	2.990	3.111	-4.0	101	0.00
79	T	1,2-Dibromo-3-chloropropane	0.087	0.080	8.0	92	0.00
80	T	1,2,4-Trichlorobenzene	1.129	1.231	-9.0	105	0.00
81	T	Naphthalene	1.316	1.459	-10.9	101	0.00
82	T	Hexachlorobutadiene	0.596	0.664	-11.4	106	0.00
83	T	1,2,3-Trichlorobenzene	0.905	0.980	-8.3	105	0.00

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



Method Name: C:\HPCHEM\1\GCMS13\METHODS\031411.M
Calibration Table Last Updated: Mon Mar 14 16:22:34 2011

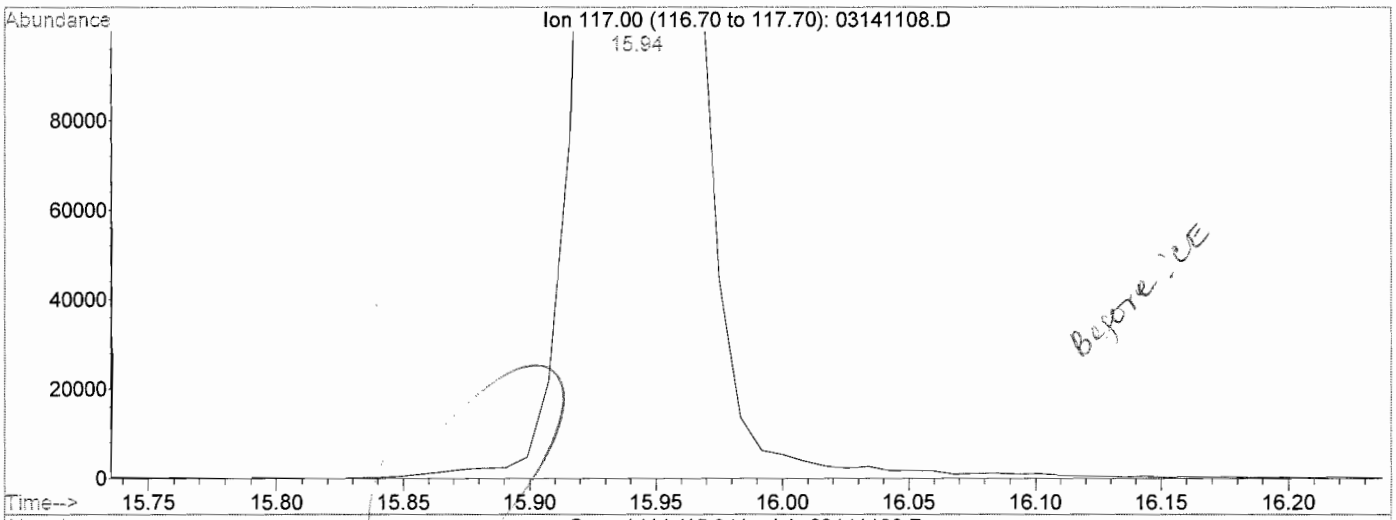
MK 3/15/11

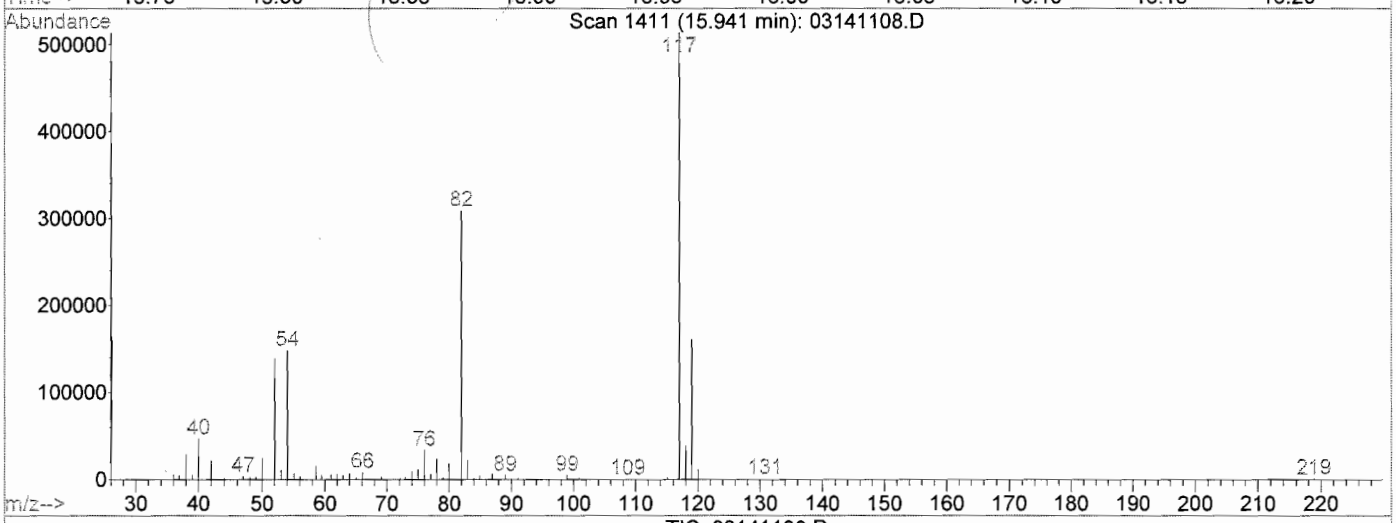
ml 3/15/11

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141108.D Vial: 5
Acq On : 14 Mar 2011 10:33 am Operator: NL
Sample : 0.5 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:27 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Multiple Level Calibration





TIC: 03141108.D

(48) Chlorobenzene-d5 (I)

15.94min 25.00ug/L

response 1123564

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

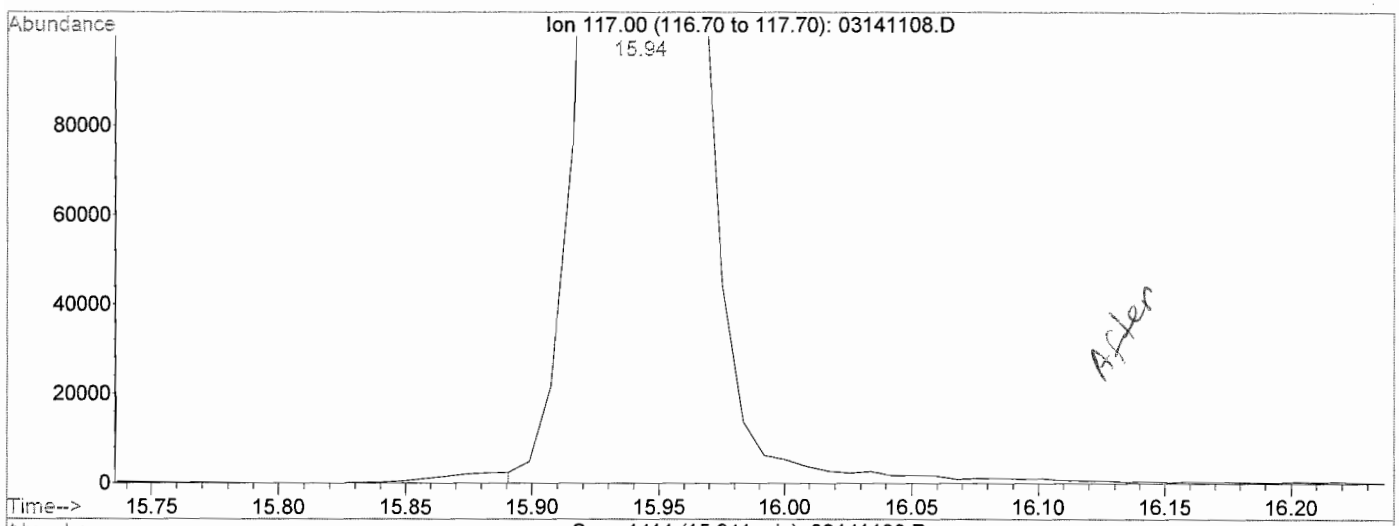
NL 3/15/11

NL 3/16/11

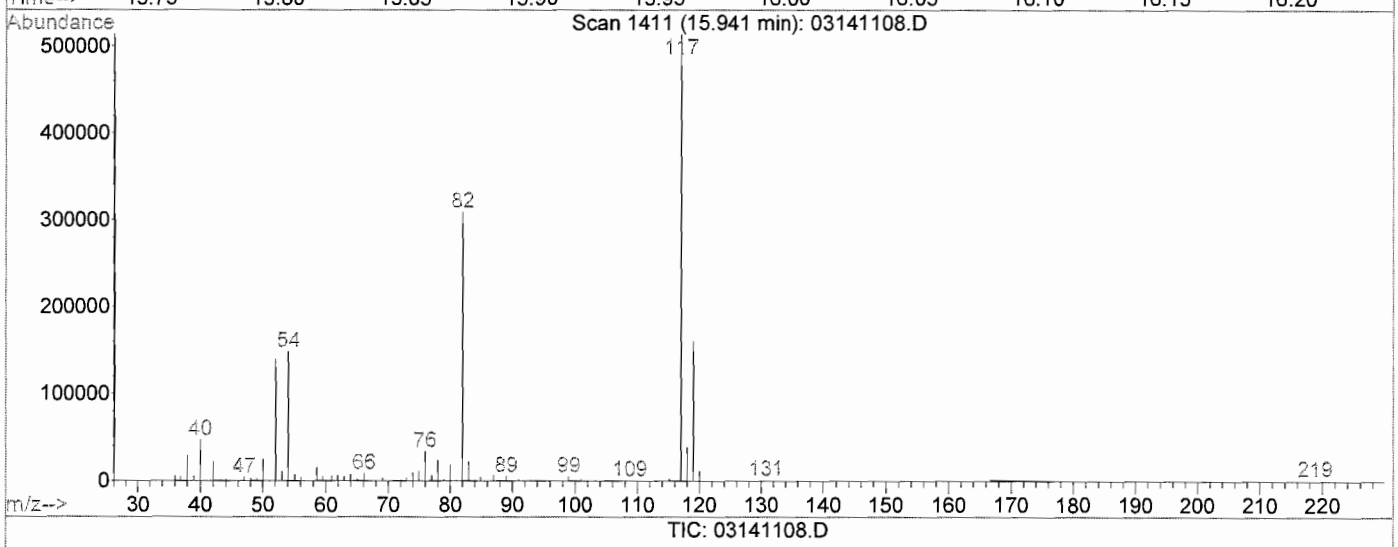
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141108.D Vial: 5
Acq On : 14 Mar 2011 10:33 am Operator: NL
Sample : 0.5 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:28 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Multiple Level Calibration



After



(48) Chlorobenzene-d5 (I)

15.94min 25.00ug/L m

response 1118486

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

NL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141108.D Vial: 5
Acq On : 14 Mar 2011 10:33 am Operator: NL
Sample : 0.5 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:28 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.33	65	155823	200.00 ug/L	0.02
4) Pentafluorobenzene	10.47	168	879567	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	1296569	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.94	117	1118486m	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.40	152	624163	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.98	113	494871	24.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.16%	
46) Toluene-d8	13.99	98	1396217	24.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.68%	
60) 4-Bromofluorobenzene	17.62	95	632523	25.64 ug/L	0.00
Spiked Amount 25.000			Recovery	= 102.56%	
Target Compounds					Qvalue
2) Ethanol	5.93	45	554	8.92 ug/L	73
3) tert-Butanol (TBA)	7.44	59	1698	Below Cal	98
5) Dichlorodifluoromethane	4.51	85	16104	0.50 ug/L	97
6) Chloromethane	4.80	50	9667	0.53 ug/L	90
7) Vinyl chloride	5.10	62	9208	0.47 ug/L #	64
8) Bromomethane	5.68	94	5429	1.17 ug/L CRL	86
9) Chloroethane	5.89	64	7629	0.46 ug/L #	92
10) Trichlorofluoromethane	6.70	101	19285	0.48 ug/L	93
11) Acetone	6.88	43	5781	1.33 ug/L # CRL	78
12) Iodomethane	7.48	142	2632	1.92 ug/L # ↓	76
13) 1,1-Dichloroethene	7.42	96	10971	0.53 ug/L	83
14) Methylene chloride	7.61	84	13077	0.54 ug/L	97
15) Freon 113	7.68	101	12975	0.50 ug/L	97
16) Carbon disulfide	7.94	76	33782	0.59 ug/L	99
17) trans-1,2-Dichloroethene	8.50	96	11772	0.50 ug/L	94
18) MTBE	8.63	73	19900	0.47 ug/L	97
19) 1,1-Dichloroethane	8.82	63	20504	0.47 ug/L	94
20) Vinyl acetate	8.97	43	9755	0.48 ug/L	96
21) n-Hexane	9.34	86	2173	0.51 ug/L	70
22) 2-Butanone (MEK)	9.37	72	707	0.61 ug/L #	37
23) Diisopropylether (DIPE)	9.37	45	37882	0.48 ug/L	92
24) cis-1,2-dichloroethene	9.56	96	12547	0.50 ug/L	91
25) Bromochloromethane	9.76	128	4023	0.46 ug/L	83
26) Chloroform	9.82	83	22798	0.49 ug/L	96
27) 2,2-Dichloropropane	9.93	77	19634	0.52 ug/L	96
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	27493	0.46 ug/L	97
30) 1,2-Dichloroethane	10.66	62	13904	0.48 ug/L	94
31) 1,1,1-Trichloroethane	10.79	97	19365	0.47 ug/L	91
32) (TAME) tert-Amyl methy eth	11.50	73	19772	0.47 ug/L	96
34) 1,1-Dichloropropene	11.03	75	16108	0.50 ug/L	94
35) Carbon tetrachloride	11.27	117	15491	0.45 ug/L	94
36) Benzene	11.33	78	40638	0.50 ug/L	100
37) Dibromomethane	12.05	93	5616	0.47 ug/L	96
38) 1,2-Dichloropropane	12.09	63	9890	0.48 ug/L	92
39) Trichloroethene	12.14	95	12969	0.51 ug/L	91
40) Bromodichloromethane	12.21	83	14786	0.46 ug/L	97

NL 3/15/11

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

M 4/16/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141108.D Vial: 5
Acq On : 14 Mar 2011 10:33 am Operator: NL
Sample : 0.5 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:28 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

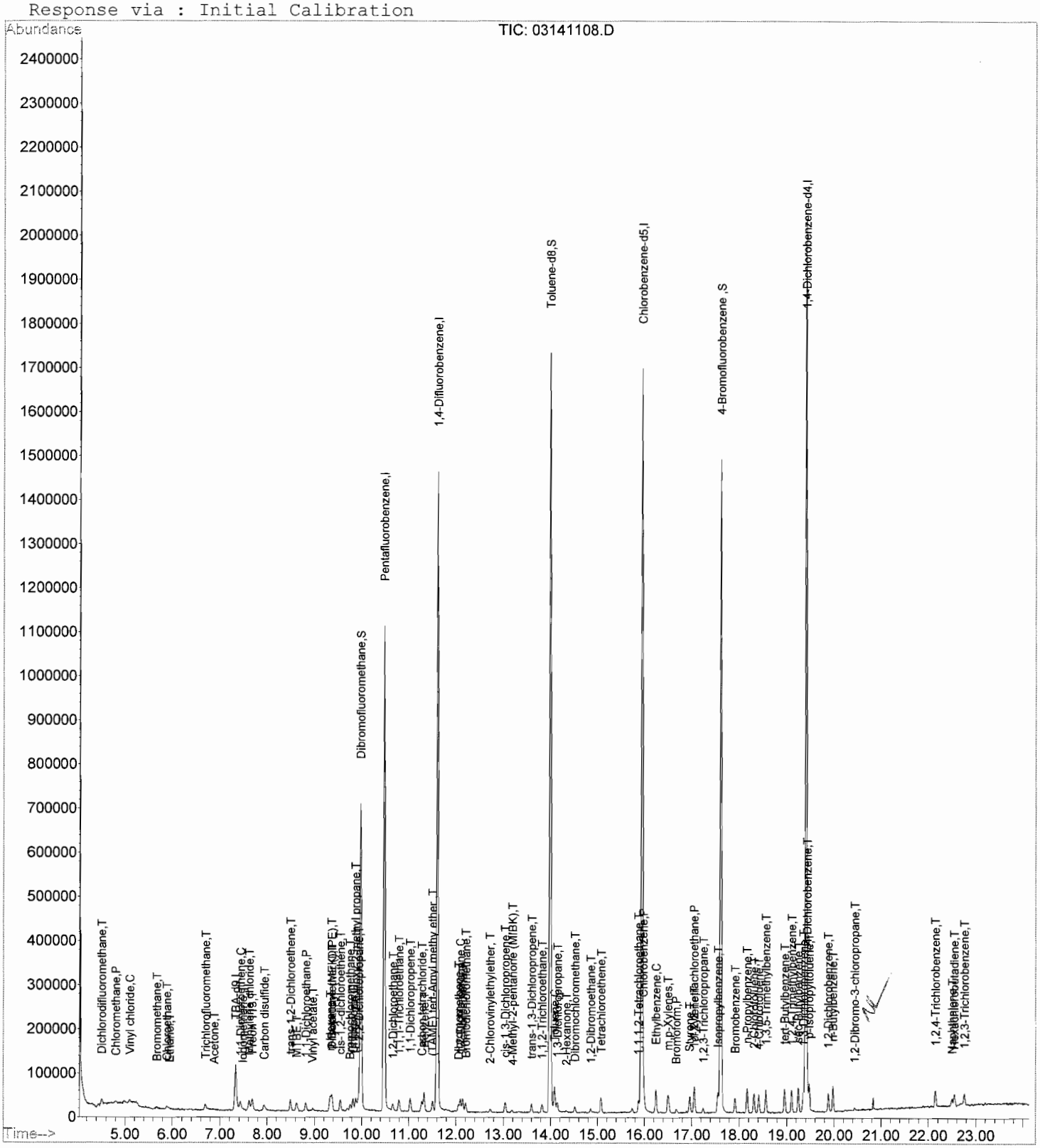
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	3181	0.47 ug/L	95
42)	cis-1,3-Dichloropropene	13.04	75	14783	0.47 ug/L	96
43)	4-Methyl-2-pentanone (MIBK	13.18	43	4824	0.48 ug/L	97
44)	trans-1,3-Dichloropropene	13.60	75	11216	0.44 ug/L	95
45)	1,1,2-Trichloroethane	13.82	97	6341	0.47 ug/L	94
47)	Toluene	14.08	92	23238	0.47 ug/L	93
49)	1,3-Dichloropropane	14.14	76	10638	0.49 ug/L #	86
50)	2-Hexanone	14.33	43	3785	0.55 ug/L #	91
51)	Dibromochloromethane	14.52	129	7965	0.46 ug/L	93
52)	1,2-Dibromoethane	14.85	107	6725	0.51 ug/L	94
53)	Tetrachloroethene	15.07	164	9968	0.51 ug/L	96
54)	1,1,1,2-Tetrachloroethane	15.87	131	12849	0.64 ug/L #	49
55)	Chlorobenzene	15.98	112	26010	0.51 ug/L	91
56)	Ethylbenzene	16.25	91	45873	0.50 ug/L	99
57)	m,p-Xylenes	16.51	106	16402	0.51 ug/L	94
58)	Styrene	16.96	104	22674	0.46 ug/L	98
59)	o-Xylene	17.06	106	15253	* 0.29 ug/L	96
62)	Bromoform	16.68	173	4397	0.39 ug/L	92
63)	1,1,2,2-Tetrachloroethane	17.04	83	6485	0.54 ug/L #	91
64)	1,2,3-Trichloropropane	17.25	110	1742	0.50 ug/L	98
65)	Isopropylbenzene	17.56	105	36954	0.46 ug/L	99
66)	Bromobenzene	17.92	156	11055	0.50 ug/L	99
67)	n-Propylbenzene	18.17	91	50276	0.48 ug/L	100
68)	2-Chlorotoluene	18.31	91	31749	0.48 ug/L	100
69)	4-Chlorotoluene	18.41	91	31263	0.47 ug/L	98
70)	1,3,5-Trimethylbenzene	18.57	105	33141	0.46 ug/L	96
71)	tert-Butylbenzene	18.95	119	28395	0.49 ug/L	98
72)	1,2,4-Trimethylbenzene	19.10	105	34157	0.47 ug/L	96
73)	sec-Butylbenzene	19.24	105	44712	0.49 ug/L	98
74)	1,3-Dichlorobenzene	19.35	146	19897	0.50 ug/L	93
75)	1,4-Dichlorobenzene	19.43	146	20529	0.52 ug/L	92
76)	p-Isopropyltoluene	19.48	119	37737	0.51 ug/L	99
77)	1,2-Dichlorobenzene	19.88	146	17654	0.51 ug/L	95
78)	n-Butylbenzene	19.97	91	34571	0.46 ug/L	99
79)	1,2-Dibromo-3-chloropropan	20.43	75	1633	0.75 ug/L #	67
80)	1,2,4-Trichlorobenzene	22.15	180	13689	0.49 ug/L	93
81)	Naphthalene	22.50	128	14868	0.45 ug/L	97
82)	Hexachlorobutadiene	22.55	225	6055	0.41 ug/L #	87
83)	1,2,3-Trichlorobenzene	22.76	180	10973	0.49 ug/L	98

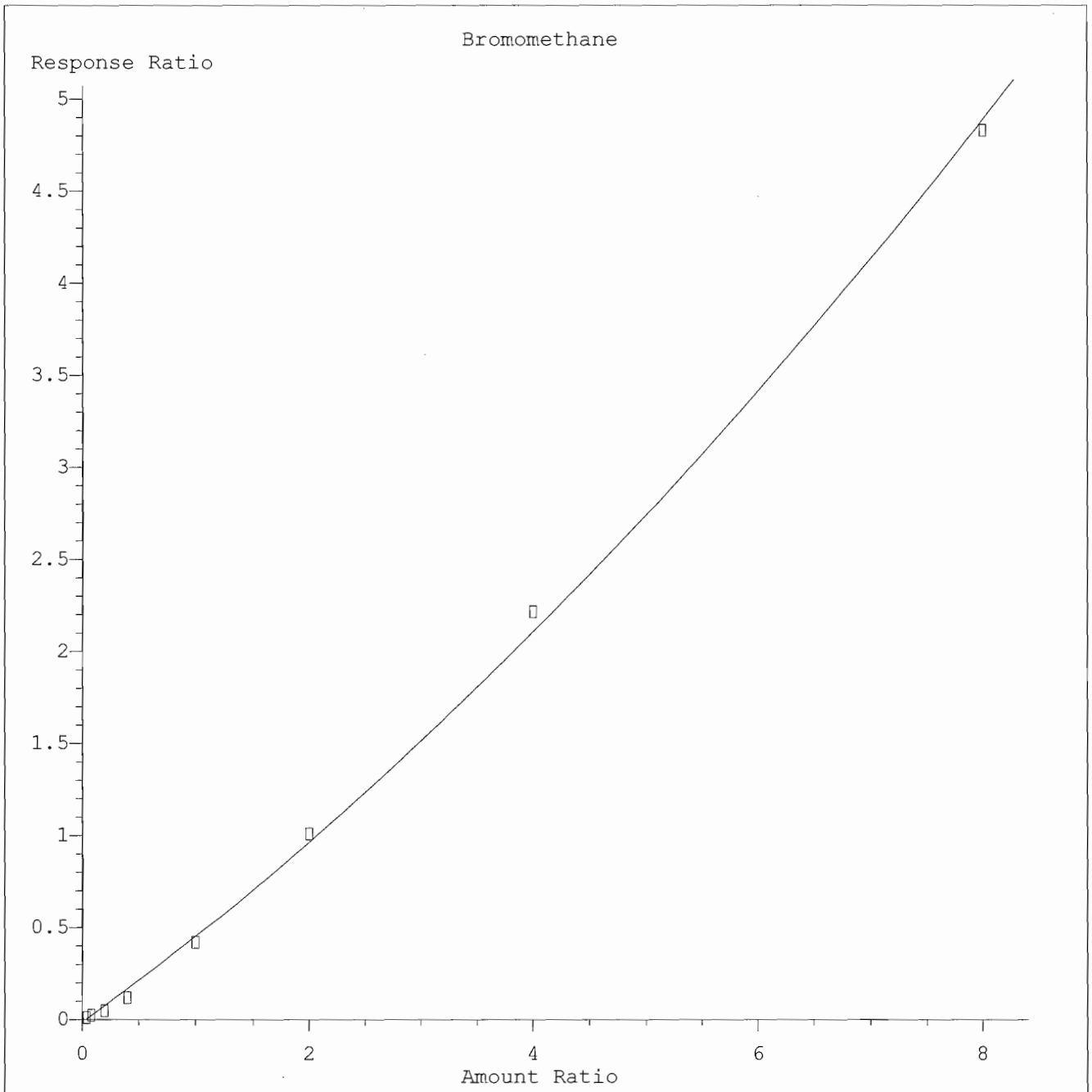
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141108.D Vial: 5
Acq On : 14 Mar 2011 10:33 am Operator: NL
Sample : 0.5 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:28 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration





R = 2.07e-002 A*A + 4.48e-001 A - 1.48e-002 r2=1.001
Curve Fit: Quadratic w(1/a)

Method Name: C:\HPCHEM\1\GCMS13\METHODS\031411.M
Calibration Table Last Updated: Mon Mar 14 16:22:34 2011

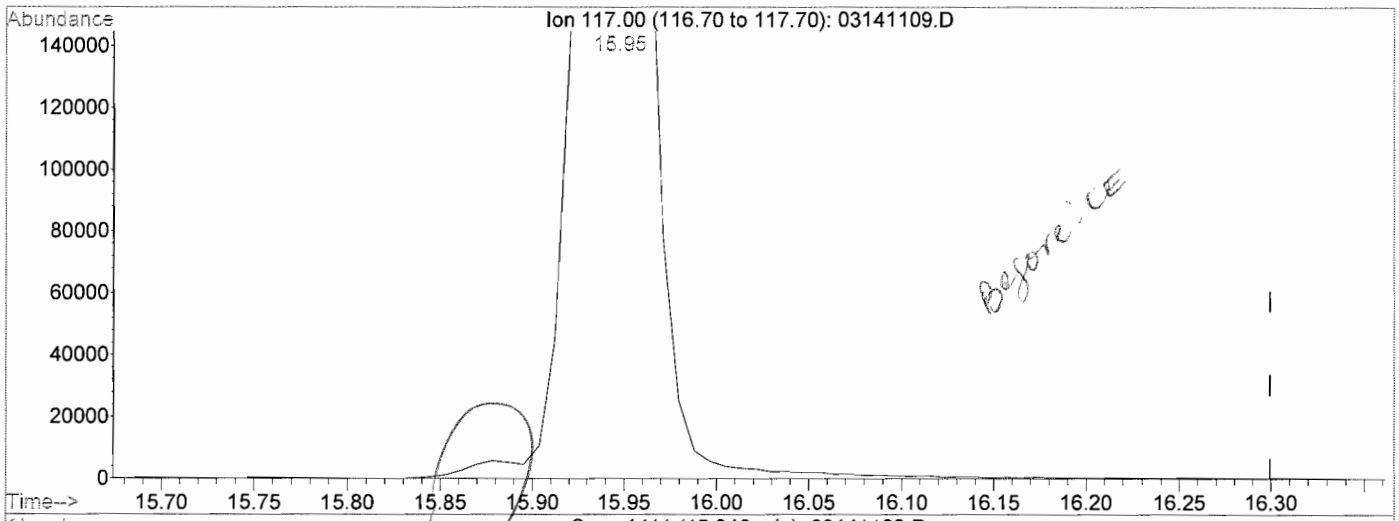
3/15/11

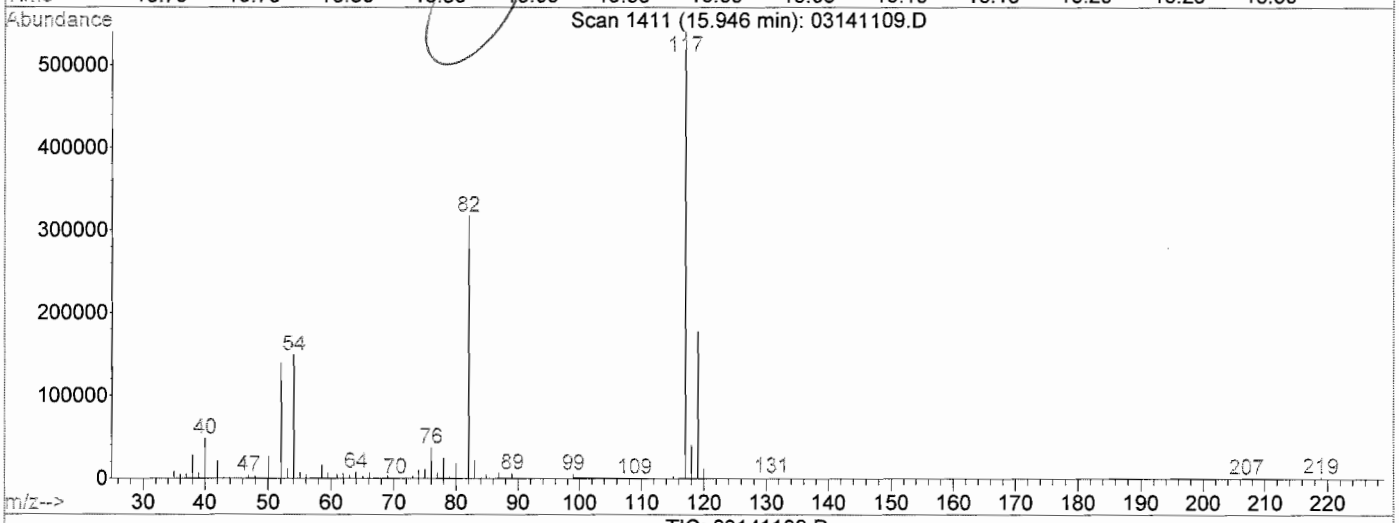
3/16/11

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141109.D Vial: 6
Acq On : 14 Mar 2011 11:06 am Operator: NL
Sample : 1.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:28 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Multiple Level Calibration





TIC: 03141109.D

(48) Chlorobenzene-d5 (I)

15.95min 25.00ug/L

response 1174140

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

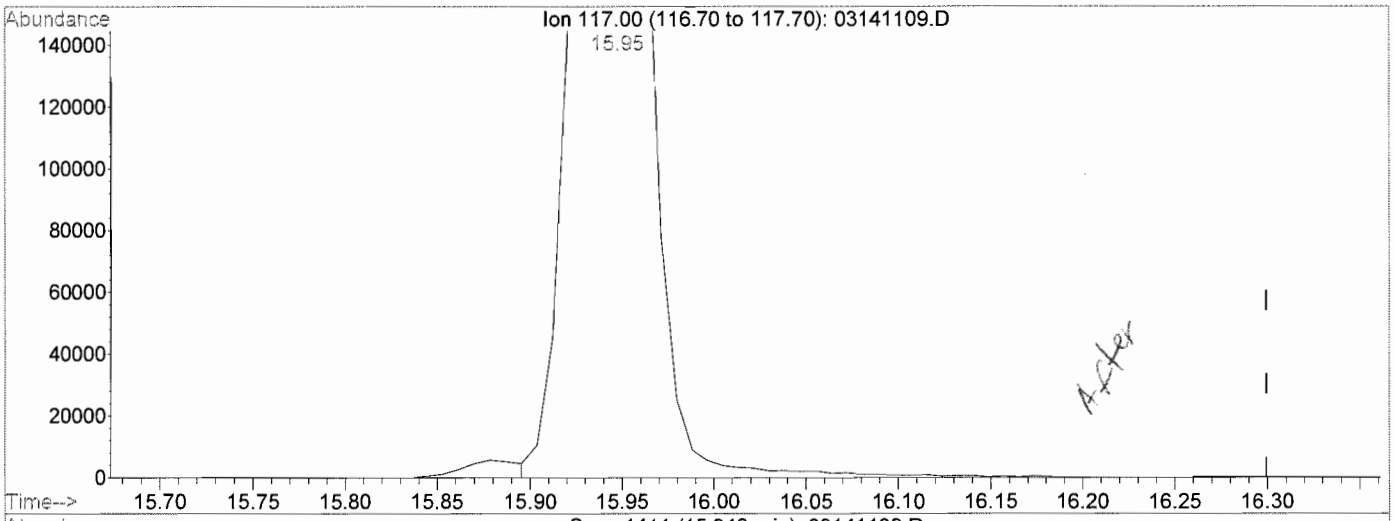
NL 3/15/11

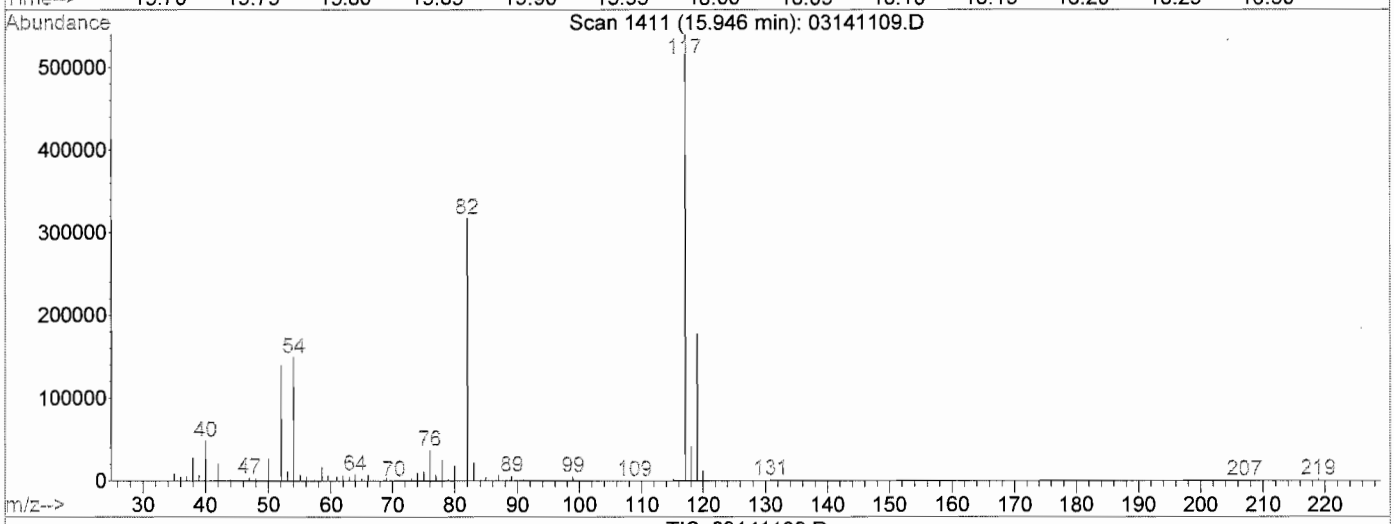
03141109.D 031411.M Tue Mar 15 14:29:11 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141109.D Vial: 6
Acq On : 14 Mar 2011 11:06 am Operator: NL
Sample : 1.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:29 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Multiple Level Calibration





TIC: 03141109.D

(48) Chlorobenzene-d5 (I)

15.95min 25.00ug/L m

response 1161807

Ion	Exp%	Act%
117.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

NL

MJ

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141109.D Vial: 6
Acq On : 14 Mar 2011 11:06 am Operator: NL
Sample : 1.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:29 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.32	65	163525	200.00 ug/L	0.01
4) Pentafluorobenzene	10.48	168	922360	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	1341500	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	1161807m	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.40	152	656554	25.00 ug/L	-0.01
System Monitoring Compounds					
29) Dibromofluoromethane	9.97	113	511715	24.20 ug/L	0.00
Spiked Amount 25.000			Recovery = 96.80%		
46) Toluene-d8	13.99	98	1439541	24.33 ug/L	0.00
Spiked Amount 25.000			Recovery = 97.32%		
60) 4-Bromofluorobenzene	17.62	95	651071	25.40 ug/L	0.00
Spiked Amount 25.000			Recovery = 101.60%		
Target Compounds					Qvalue
2) Ethanol	5.91	45	1382	21.20 ug/L	94
3) tert-Butanol (TBA)	7.43	59	5161	1.41 ug/L	100
5) Dichlorodifluoromethane	4.50	85	30732	0.91 ug/L	96
6) Chloromethane	4.80	50	18061	0.94 ug/L	93
7) Vinyl chloride	5.09	62	18944	0.92 ug/L #	80
8) Bromomethane	5.69	94	10522	* 1.46 ug/L	100
9) Chloroethane	5.89	64	16939	0.97 ug/L	95
10) Trichlorofluoromethane	6.70	101	37937	0.90 ug/L	98
11) Acetone	6.86	43	5576	1.22 ug/L #	74
12) Iodomethane	7.47	142	8584	2.18 ug/L #	82
13) 1,1-Dichloroethene	7.42	96	19437	0.90 ug/L	97
14) Methylene chloride	7.61	84	26278	1.03 ug/L	99
15) Freon 113	7.68	101	25302	0.93 ug/L	95
16) Carbon disulfide	7.94	76	60995	1.02 ug/L	95
17) trans-1,2-Dichloroethene	8.49	96	22356	0.91 ug/L	98
18) MTBE	8.63	73	41710	0.95 ug/L	97
19) 1,1-Dichloroethane	8.82	63	44289	0.97 ug/L	99
20) Vinyl acetate	8.98	43	20648	0.98 ug/L	99
21) n-Hexane	9.32	86	4597	1.02 ug/L	91
22) 2-Butanone (MEK)	9.36	72	1170	0.96 ug/L #	98
23) Diisopropylether (DIPE)	9.36	45	87611	1.05 ug/L	98
24) cis-1,2-dichloroethene	9.55	96	24956	0.95 ug/L	99
25) Bromochloromethane	9.76	128	8986	0.99 ug/L	85
26) Chloroform	9.82	83	47855	0.98 ug/L	99
27) 2,2-Dichloropropane	9.93	77	39501	1.00 ug/L	98
28) (ETBE) 2-Ethoxy-2-methyl p	9.88	59	62766	0.99 ug/L	97
30) 1,2-Dichloroethane	10.66	62	29939	0.98 ug/L	99
31) 1,1,1-Trichloroethane	10.80	97	39206	0.92 ug/L	94
32) (TAME) tert-Amyl methy eth	11.50	73	43031	0.97 ug/L	98
34) 1,1-Dichloropropene	11.03	75	31960	0.96 ug/L	98
35) Carbon tetrachloride	11.27	117	32401	0.92 ug/L	99
36) Benzene	11.32	78	81624	0.97 ug/L	99
37) Dibromomethane	12.05	93	11887	0.96 ug/L	95
38) 1,2-Dichloropropane	12.09	63	20550	0.97 ug/L #	86
39) Trichloroethene	12.14	95	25397	0.97 ug/L	99
40) Bromodichloromethane	12.21	83	30659	0.93 ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141109.D Vial: 6
Acq On : 14 Mar 2011 11:06 am Operator: NL
Sample : 1.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:29 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	2-Chlorovinylethylether	12.72	63	6316	0.91 ug/L		93
42)	cis-1,3-Dichloropropene	13.03	75	30586	0.95 ug/L		98
43)	4-Methyl-2-pentanone (MIBK	13.18	43	9919	0.95 ug/L		94
44)	trans-1,3-Dichloropropene	13.60	75	24804	0.94 ug/L		94
45)	1,1,2-Trichloroethane	13.83	97	13697	0.98 ug/L		98
47)	Toluene	14.08	92	51724	1.01 ug/L		98
49)	1,3-Dichloropropane	14.14	76	23878	1.05 ug/L		95
50)	2-Hexanone	14.33	43	7442	1.04 ug/L	#	88
51)	Dibromochloromethane	14.52	129	15956	0.89 ug/L		98
52)	1,2-Dibromoethane	14.85	107	13364	0.98 ug/L		100
53)	Tetrachloroethene	15.08	164	20940	1.03 ug/L		93
54)	1,1,1,2-Tetrachloroethane	15.88	131	20465	0.99 ug/L		91
55)	Chlorobenzene	15.99	112	55554	1.04 ug/L	#	81
56)	Ethylbenzene	16.24	91	98106	1.03 ug/L		99
57)	m,p-Xylenes	16.50	106	34501	1.03 ug/L		98
58)	Styrene	16.96	104	50145	0.98 ug/L		98
59)	o-Xylene	17.06	106	33764	0.90 ug/L		99
62)	Bromoform	16.68	173	10070	0.86 ug/L		87
63)	1,1,2,2-Tetrachloroethane	17.04	83	12898	1.02 ug/L	#	93
64)	1,2,3-Trichloropropane	17.25	110	3454	0.94 ug/L		96
65)	Isopropylbenzene	17.56	105	83225	0.99 ug/L		99
66)	Bromobenzene	17.91	156	22567	0.97 ug/L		99
67)	n-Propylbenzene	18.17	91	107954	0.99 ug/L		98
68)	2-Chlorotoluene	18.31	91	69416	1.01 ug/L		100
69)	4-Chlorotoluene	18.42	91	72338	1.03 ug/L		100
70)	1,3,5-Trimethylbenzene	18.57	105	75804	1.00 ug/L		100
71)	tert-Butylbenzene	18.96	119	61061	0.99 ug/L		99
72)	1,2,4-Trimethylbenzene	19.10	105	74433	0.98 ug/L		97
73)	sec-Butylbenzene	19.25	105	94039	0.97 ug/L		100
74)	1,3-Dichlorobenzene	19.35	146	43178	1.03 ug/L		97
75)	1,4-Dichlorobenzene	19.43	146	44611	1.07 ug/L	#	91
76)	p-Isopropyltoluene	19.47	119	78344	1.00 ug/L		98
77)	1,2-Dichlorobenzene	19.88	146	36641	1.00 ug/L		98
78)	n-Butylbenzene	19.98	91	77186	0.98 ug/L		99
79)	1,2-Dibromo-3-chloropropan	20.44	75	1968	0.86 ug/L		87
80)	1,2,4-Trichlorobenzene	22.15	180	28151	0.95 ug/L		94
81)	Naphthalene	22.49	128	31633	0.92 ug/L		100
82)	Hexachlorobutadiene	22.54	225	15443	0.99 ug/L		94
83)	1,2,3-Trichlorobenzene	22.76	180	22752	0.96 ug/L		99

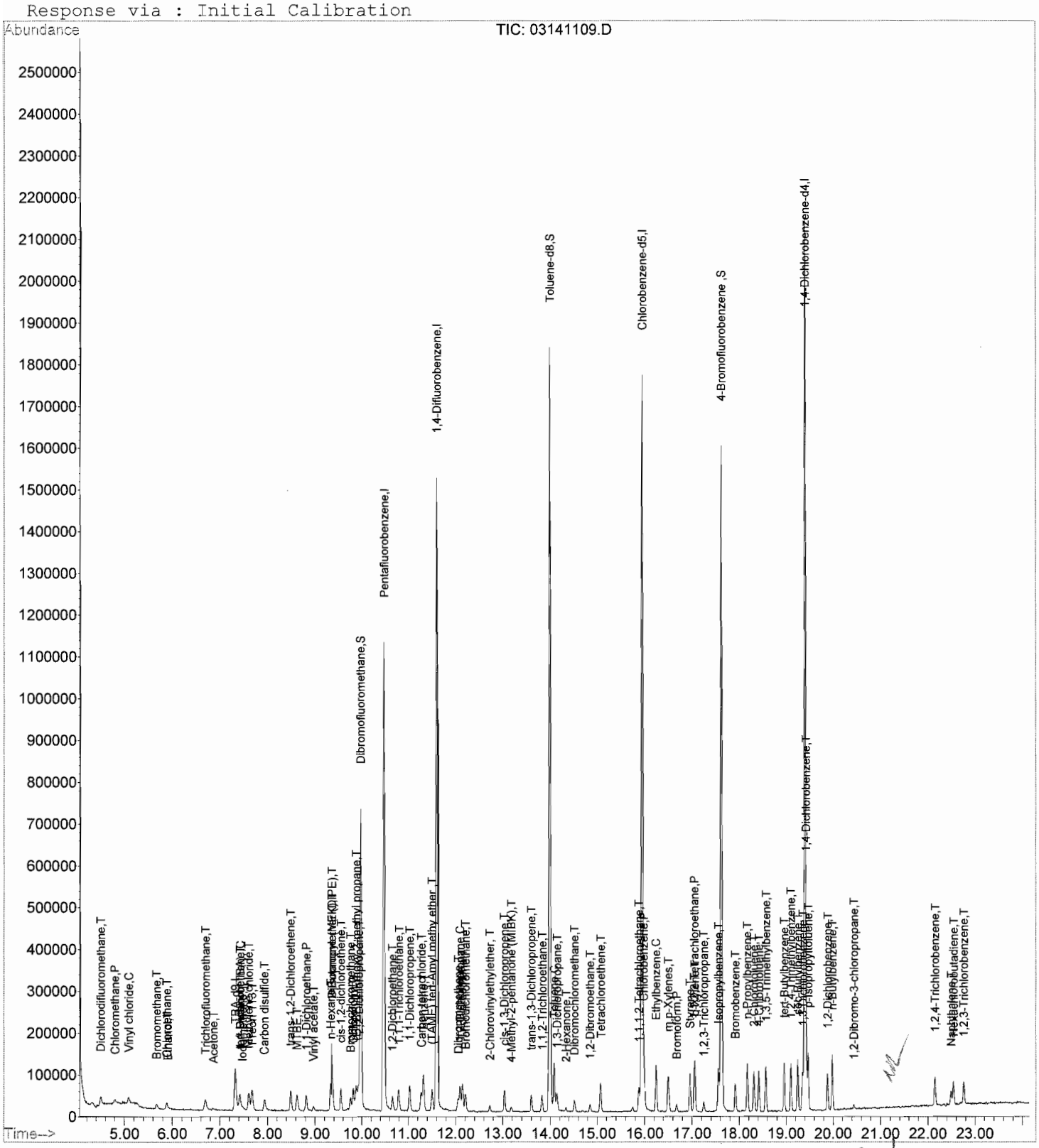
NL

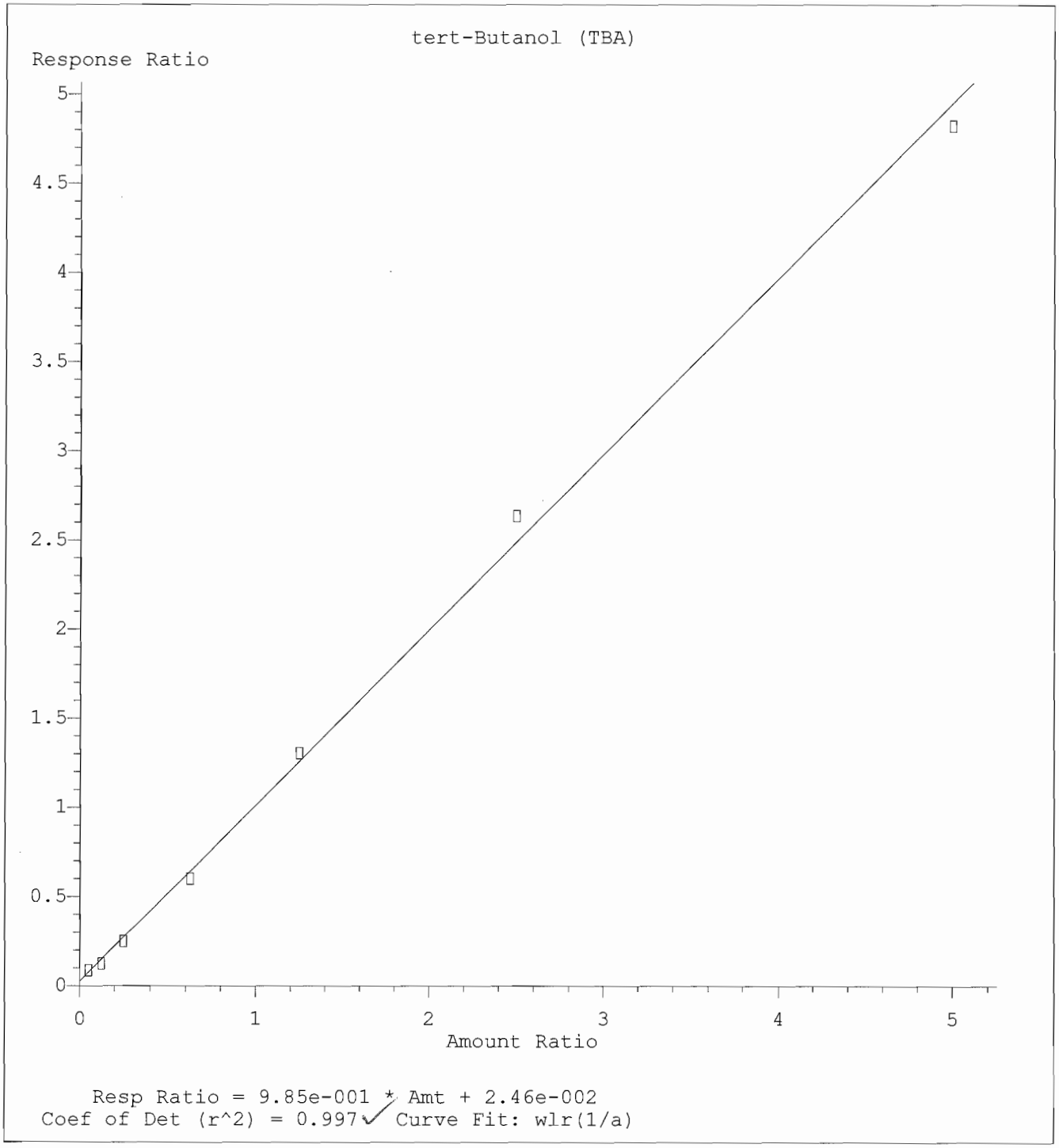
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141109.D Vial: 6
Acq On : 14 Mar 2011 11:06 am Operator: NL
Sample : 1.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:29 2011 Quant Results File: 031411.RES

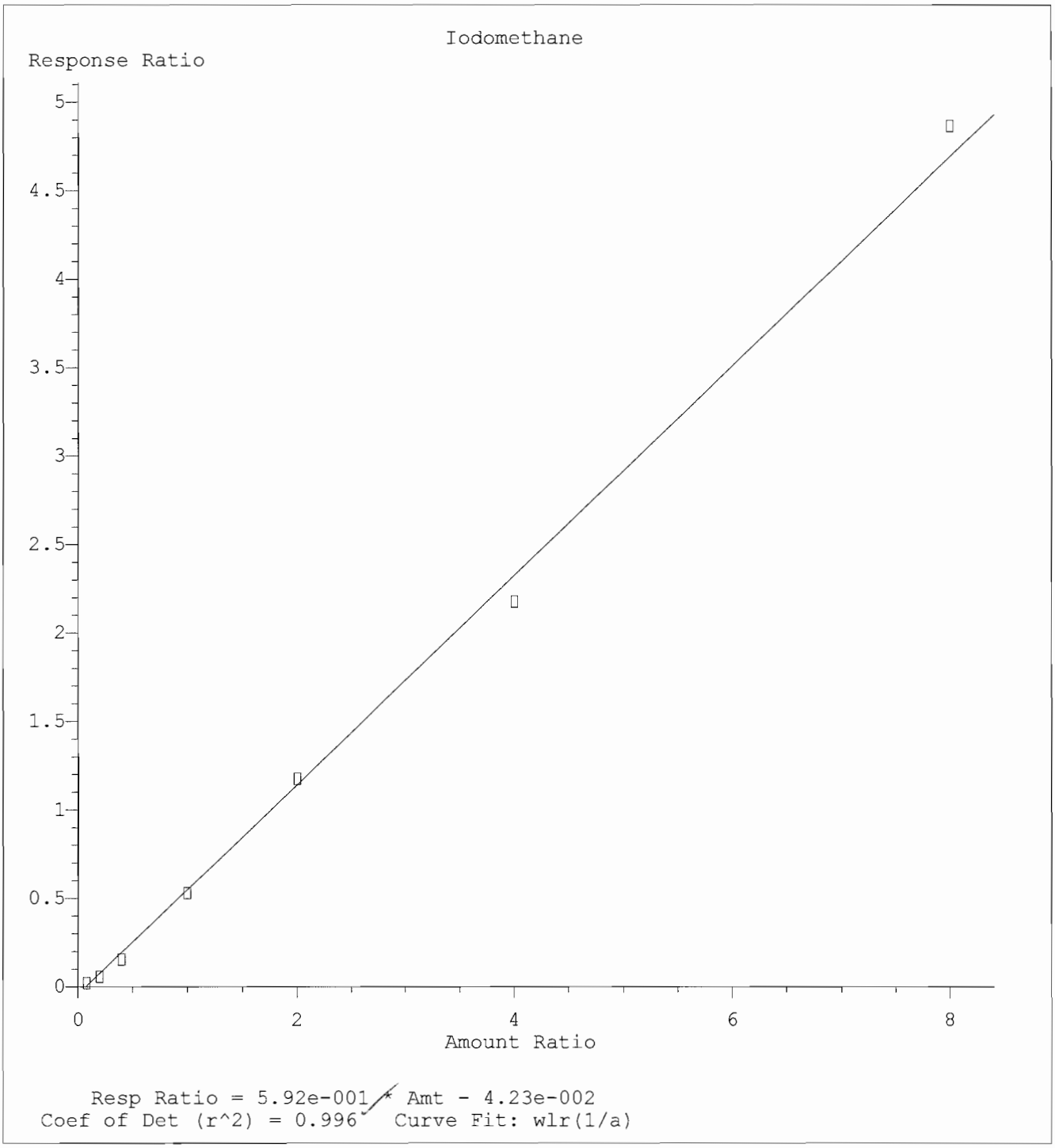
Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration





Method Name: C:\HPCHEM\1\GCMS13\METHODS\031411.M
Calibration Table Last Updated: Mon Mar 14 16:22:34 2011

NL 3/15/11 M 4/16/11



Method Name: C:\HPCHEM\1\GCMS13\METHODS\031411.M
Calibration Table Last Updated: Mon Mar 14 16:22:34 2011

NC 3/15/11

M 3/16/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141111.D Vial: 8
Acq On : 14 Mar 2011 12:14 pm Operator: NL
Sample : 2.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:29 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.31	65	118356	200.00	ug/L	0.00
4) Pentafluorobenzene	10.47	168	711317	25.00	ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	1057424	25.00	ug/L	0.00
48) Chlorobenzene-d5	15.94	117	932115	25.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.40	152	524222	25.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	9.97	113	415304	25.46	ug/L	0.00
Spiked Amount 25.000			Recovery	=	101.84%	
46) Toluene-d8	13.98	98	1156864	24.81	ug/L	0.00
Spiked Amount 25.000			Recovery	=	99.24%	
60) 4-Bromofluorobenzene	17.62	95	527208	25.64	ug/L	0.00
Spiked Amount 25.000			Recovery	=	102.56%	

Target Compounds						Qvalue
2) Ethanol	5.93	45	2666	56.51	ug/L	76
3) tert-Butanol (TBA)	7.42	59	10211	12.52	ug/L #	89
5) Dichlorodifluoromethane	4.47	85	53625	2.06	ug/L	98
6) Chloromethane	4.78	50	32657	2.21	ug/L	91
7) Vinyl chloride	5.07	62	37358	2.36	ug/L #	82
8) Bromomethane	5.66	94	17100	2.16	ug/L	82
9) Chloroethane	5.87	64	35588	2.64	ug/L	99
10) Trichlorofluoromethane	6.68	101	68707	2.12	ug/L	95
11) Acetone	6.84	43	13114	3.72	ug/L	92
12) Iodomethane	7.47	142	15441	* 2.71	ug/L #	86
13) 1,1-Dichloroethene	7.41	96	39307	2.36	ug/L	97
14) Methylene chloride	7.60	84	47605	2.42	ug/L	99
15) Freon 113	7.66	101	41898	2.01	ug/L	97
16) Carbon disulfide	7.93	76	119287	2.57	ug/L	98
17) trans-1,2-Dichloroethene	8.48	96	50567	2.68	ug/L	99
18) MTBE	8.62	73	68393	2.02	ug/L	96
19) 1,1-Dichloroethane	8.80	63	90989	2.59	ug/L	96
20) Vinyl acetate	8.95	43	32801	2.01	ug/L	97
21) n-Hexane	9.32	86	7296	2.10	ug/L	90
22) 2-Butanone (MEK)	9.35	72	2282	2.43	ug/L #	70
23) Diisopropylether (DIPE)	9.36	45	154386	2.40	ug/L	99
24) cis-1,2-dichloroethene	9.55	96	52692	2.60	ug/L	97
25) Bromochloromethane	9.76	128	15165	2.17	ug/L	91
26) Chloroform	9.82	83	98924	2.62	ug/L	98
27) 2,2-Dichloropropane	9.92	77	82629	2.72	ug/L	95
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	108864	2.23	ug/L	99
30) 1,2-Dichloroethane	10.66	62	52451	2.22	ug/L	99
31) 1,1,1-Trichloroethane	10.79	97	82372	2.50	ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	72398	2.12	ug/L	97
34) 1,1-Dichloropropene	11.02	75	62603	2.38	ug/L	98
35) Carbon tetrachloride	11.27	117	65324	2.35	ug/L	99
36) Benzene	11.32	78	170501	2.57	ug/L	99
37) Dibromomethane	12.04	93	21366	2.19	ug/L	96
38) 1,2-Dichloropropane	12.09	63	42314	2.54	ug/L	98
39) Trichloroethene	12.14	95	51563	2.51	ug/L	98
40) Bromodichloromethane	12.20	83	60974	2.35	ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141111.D Vial: 8
Acq On : 14 Mar 2011 12:14 pm Operator: NL
Sample : 2.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:29 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

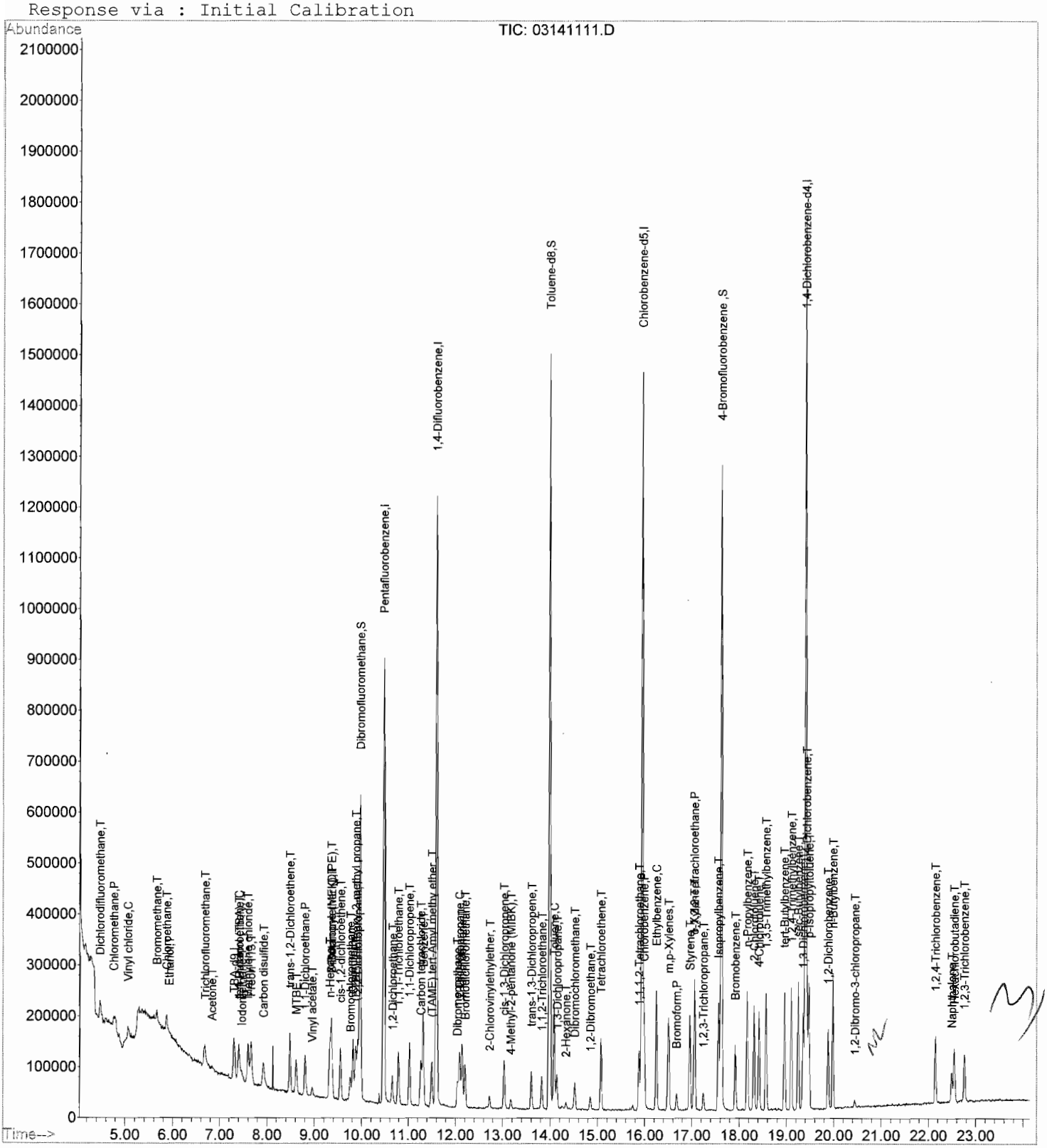
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	2-Chlorovinylethylether	12.73	63	10374	1.90 ug/L		98
42)	cis-1,3-Dichloropropene	13.04	75	59645	2.35 ug/L		97
43)	4-Methyl-2-pentanone (MIBK	13.17	43	16382	1.99 ug/L		98
44)	trans-1,3-Dichloropropene	13.60	75	45501	2.18 ug/L		96
45)	1,1,2-Trichloroethane	13.82	97	24061	2.17 ug/L		95
47)	Toluene	14.08	92	105845	2.63 ug/L		99
49)	1,3-Dichloropropane	14.14	76	39874	2.19 ug/L		94
50)	2-Hexanone	14.33	43	12588	2.20 ug/L	#	93
51)	Dibromochloromethane	14.52	129	31703	2.20 ug/L		96
52)	1,2-Dibromoethane	14.84	107	21699	1.97 ug/L		97
53)	Tetrachloroethene	15.07	164	40249	2.48 ug/L		98
54)	1,1,1,2-Tetrachloroethane	15.87	131	39605	2.38 ug/L		95
55)	Chlorobenzene	15.99	112	109100	2.55 ug/L		92
56)	Ethylbenzene	16.25	91	203956	2.66 ug/L		99
57)	m,p-Xylenes	16.51	106	71329	2.64 ug/L		100
58)	Styrene	16.96	104	102326	2.50 ug/L		98
59)	o-Xylene	17.06	106	71297	2.75 ug/L		100
62)	Bromoform	16.68	173	19630	2.10 ug/L		95
63)	1,1,2,2-Tetrachloroethane	17.05	83	21130	2.09 ug/L	#	91
64)	1,2,3-Trichloropropane	17.25	110	5768	1.96 ug/L		98
65)	Isopropylbenzene	17.56	105	171913	2.55 ug/L		99
66)	Bromobenzene	17.92	156	44118	2.37 ug/L		98
67)	n-Propylbenzene	18.17	91	224077	2.57 ug/L		99
68)	2-Chlorotoluene	18.31	91	141164	2.56 ug/L		100
69)	4-Chlorotoluene	18.41	91	146784	2.62 ug/L		99
70)	1,3,5-Trimethylbenzene	18.57	105	155498	2.58 ug/L		98
71)	tert-Butylbenzene	18.96	119	125198	2.55 ug/L		99
72)	1,2,4-Trimethylbenzene	19.11	105	158655	2.62 ug/L		97
73)	sec-Butylbenzene	19.25	105	197903	2.56 ug/L		100
74)	1,3-Dichlorobenzene	19.35	146	83448	2.50 ug/L		99
75)	1,4-Dichlorobenzene	19.43	146	84260	2.53 ug/L		95
76)	p-Isopropyltoluene	19.48	119	159587	2.56 ug/L		99
77)	1,2-Dichlorobenzene	19.88	146	68995	2.36 ug/L		99
78)	n-Butylbenzene	19.98	91	159253	2.54 ug/L		100
79)	1,2-Dibromo-3-chloropropan	20.45	75	4340	2.37 ug/L	#	79
80)	1,2,4-Trichlorobenzene	22.15	180	52445	2.21 ug/L		98
81)	Naphthalene	22.50	128	55232	2.00 ug/L		99
82)	Hexachlorobutadiene	22.55	225	29126	2.33 ug/L		97
83)	1,2,3-Trichlorobenzene	22.76	180	40091	2.11 ug/L		96

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141111.D Vial: 8
Acq On : 14 Mar 2011 12:14 pm Operator: NL
Sample : 2.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:29 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141112.D Vial: 9
Acq On : 14 Mar 2011 12:47 pm Operator: NL
Sample : 5.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:30 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	119477	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	700842	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	1010249	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.94	117	912659	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.40	152	512889	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.97	113	399936	24.89 ug/L	0.00
Spiked Amount 25.000			Recovery = 99.56%		
46) Toluene-d8	13.98	98	1120128	25.14 ug/L	0.00
Spiked Amount 25.000			Recovery = 100.56%		
60) 4-Bromofluorobenzene	17.62	95	522172	25.94 ug/L	0.00
Spiked Amount 25.000			Recovery = 103.76%		

Target Compounds					Qvalue
2) Ethanol	5.92	45	3140	65.94 ug/L	90
3) tert-Butanol (TBA)	7.42	59	14934	20.38 ug/L	98
5) Dichlorodifluoromethane	4.47	85	132238	5.15 ug/L	99
6) Chloromethane	4.78	50	67751	4.65 ug/L	100
7) Vinyl chloride	5.06	62	78989	5.07 ug/L	98
8) Bromomethane	5.66	94	34058	3.52 ug/L	94
9) Chloroethane	5.87	64	66878	5.04 ug/L	99
10) Trichlorofluoromethane	6.68	101	158969	4.97 ug/L	97
11) Acetone	6.84	43	19542	5.63 ug/L	94
12) Iodomethane	7.46	142	40011	4.20 ug/L	98
13) 1,1-Dichloroethene	7.40	96	79543	4.84 ug/L	97
14) Methylene chloride	7.60	84	93284	4.82 ug/L	98
15) Freon 113	7.66	101	102564	4.99 ug/L	99
16) Carbon disulfide	7.93	76	209886	4.60 ug/L	97
17) trans-1,2-Dichloroethene	8.48	96	86712	4.66 ug/L	96
18) MTBE	8.62	73	163820	4.90 ug/L	99
19) 1,1-Dichloroethane	8.80	63	170592	4.92 ug/L	100
20) Vinyl acetate	8.96	43	70756	4.41 ug/L	97
21) n-Hexane	9.32	86	19167	5.60 ug/L	90
22) 2-Butanone (MEK)	9.37	72	4329	4.68 ug/L #	89
23) Diisopropylether (DIPE)	9.36	45	315084	4.98 ug/L	98
24) cis-1,2-dichloroethene	9.55	96	96449	4.83 ug/L	98
25) Bromochloromethane	9.76	128	34136	4.95 ug/L	94
26) Chloroform	9.82	83	184540	4.97 ug/L	99
27) 2,2-Dichloropropane	9.92	77	144350	4.83 ug/L	99
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	240191	5.00 ug/L	98
30) 1,2-Dichloroethane	10.66	62	115992	4.99 ug/L	98
31) 1,1,1-Trichloroethane	10.79	97	161470	4.96 ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	166151	4.95 ug/L	98
34) 1,1-Dichloropropene	11.02	75	125801	5.01 ug/L	98
35) Carbon tetrachloride	11.27	117	133490	5.02 ug/L	99
36) Benzene	11.32	78	313868	4.96 ug/L	99
37) Dibromomethane	12.04	93	48242	5.18 ug/L	97
38) 1,2-Dichloropropane	12.09	63	79915	5.01 ug/L	98
39) Trichloroethene	12.14	95	95797	4.88 ug/L	99
40) Bromodichloromethane	12.20	83	124593	5.03 ug/L	99

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

M! 3/16/11

3/15/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141112.D Vial: 9
Acq On : 14 Mar 2011 12:47 pm Operator: NL
Sample : 5.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:30 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	2-Chlorovinylethylether	12.73	63	26466	5.07 ug/L		94
42)	cis-1,3-Dichloropropene	13.04	75	119204	4.91 ug/L		97
43)	4-Methyl-2-pentanone (MIBK	13.17	43	38199	4.85 ug/L		93
44)	trans-1,3-Dichloropropene	13.60	75	101199	5.07 ug/L		98
45)	1,1,2-Trichloroethane	13.82	97	54108	5.12 ug/L		95
47)	Toluene	14.08	92	199361	5.18 ug/L		100
49)	1,3-Dichloropropane	14.14	76	90676	5.08 ug/L		96
50)	2-Hexanone	14.33	43	27301	4.87 ug/L	#	92
51)	Dibromochloromethane	14.52	129	71389	5.05 ug/L		97
52)	1,2-Dibromoethane	14.85	107	54007	5.02 ug/L		99
53)	Tetrachloroethene	15.07	164	79084	4.97 ug/L		98
54)	1,1,1,2-Tetrachloroethane	15.88	131	78844	4.84 ug/L		96
55)	Chlorobenzene	15.99	112	203846	4.86 ug/L		97
56)	Ethylbenzene	16.25	91	375480	5.01 ug/L		99
57)	m,p-Xylenes	16.51	106	132725	5.02 ug/L		98
58)	Styrene	16.96	104	206281	5.14 ug/L		99
59)	o-Xylene	17.06	106	132259	5.43 ug/L		97
62)	Bromoform	16.68	173	44364	4.85 ug/L		96
63)	1,1,2,2-Tetrachloroethane	17.05	83	50521	5.10 ug/L		99
64)	1,2,3-Trichloropropane	17.25	110	14617	5.08 ug/L		89
65)	Isopropylbenzene	17.56	105	331110	5.03 ug/L		100
66)	Bromobenzene	17.92	156	90165	4.95 ug/L		97
67)	n-Propylbenzene	18.17	91	437726	5.13 ug/L		99
68)	2-Chlorotoluene	18.31	91	274225	5.09 ug/L		99
69)	4-Chlorotoluene	18.42	91	277589	5.07 ug/L		100
70)	1,3,5-Trimethylbenzene	18.57	105	298450	5.05 ug/L		98
71)	tert-Butylbenzene	18.96	119	239085	4.98 ug/L		99
72)	1,2,4-Trimethylbenzene	19.11	105	302101	5.10 ug/L		99
73)	sec-Butylbenzene	19.25	105	390838	5.16 ug/L		99
74)	1,3-Dichlorobenzene	19.35	146	169519	5.19 ug/L		99
75)	1,4-Dichlorobenzene	19.43	146	161637	4.95 ug/L		97
76)	p-Isopropyltoluene	19.48	119	310372	5.08 ug/L		99
77)	1,2-Dichlorobenzene	19.88	146	145493	5.10 ug/L		98
78)	n-Butylbenzene	19.98	91	314041	5.12 ug/L		99
79)	1,2-Dibromo-3-chloropropan	20.45	75	8572	4.78 ug/L		96
80)	1,2,4-Trichlorobenzene	22.15	180	108929	4.70 ug/L		100
81)	Naphthalene	22.50	128	128076	4.74 ug/L		100
82)	Hexachlorobutadiene	22.55	225	59115	4.84 ug/L		97
83)	1,2,3-Trichlorobenzene	22.76	180	91278	4.91 ug/L		98

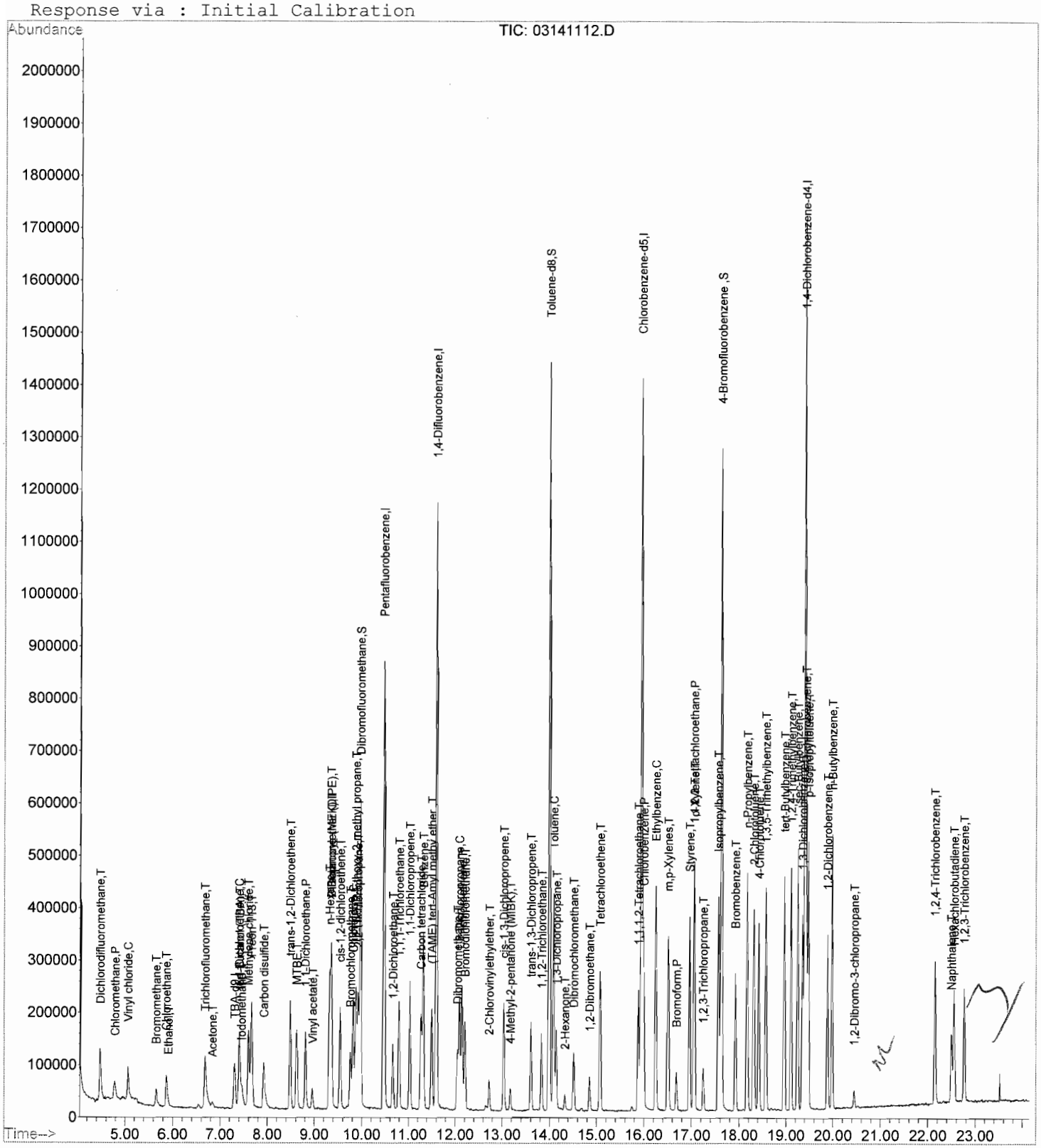
NL MJ

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141112.D Vial: 9
Acq On : 14 Mar 2011 12:47 pm Operator: NL
Sample : 5.0 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:30 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141114.D Vial: 11
Acq On : 14 Mar 2011 1:53 pm Operator: NL
Sample : 25 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:31 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.31	65	125792	200.00	ug/L	0.00
4) Pentafluorobenzene	10.47	168	699455	25.00	ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	1014981	25.00	ug/L	0.00
48) Chlorobenzene-d5	15.95	117	936018	25.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	492554	25.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	9.97	113	404401	25.22	ug/L	0.00
Spiked Amount 25.000			Recovery	=	100.88%	
46) Toluene-d8	13.99	98	1134687	25.35	ug/L	0.00
Spiked Amount 25.000			Recovery	=	101.40%	
60) 4-Bromofluorobenzene	17.62	95	508378	24.62	ug/L	0.00
Spiked Amount 25.000			Recovery	=	98.48%	
Target Compounds						Qvalue
2) Ethanol	5.90	45	12783	254.95	ug/L	100
3) tert-Butanol (TBA)	7.42	59	75663	117.08	ug/L	100
5) Dichlorodifluoromethane	4.47	85	641544	25.04	ug/L	100
6) Chloromethane	4.78	50	312927	21.53	ug/L	100
7) Vinyl chloride	5.06	62	377531	24.28	ug/L	100
8) Bromomethane	5.66	94	293535	23.27	ug/L	100
9) Chloroethane	5.87	64	329027	24.83	ug/L	100
10) Trichlorofluoromethane	6.68	101	808959	25.35	ug/L	100
11) Acetone	6.83	43	75063	21.66	ug/L	100
12) Iodomethane	7.46	142	407581	26.41	ug/L	94
13) 1,1-Dichloroethene	7.41	96	390447	23.82	ug/L	100
14) Methylene chloride	7.60	84	452050	23.42	ug/L	100
15) Freon 113	7.66	101	515908	25.13	ug/L	100
16) Carbon disulfide	7.92	76	1011118	22.19	ug/L	100
17) trans-1,2-Dichloroethene	8.48	96	437012	23.53	ug/L	100
18) MTBE	8.62	73	831849	24.94	ug/L	100
19) 1,1-Dichloroethane	8.81	63	834894	24.12	ug/L	100
20) Vinyl acetate	8.95	43	415505	25.95	ug/L	100
21) n-Hexane	9.33	86	84809	24.82	ug/L	100
22) 2-Butanone (MEK)	9.34	72	21512	23.31	ug/L #	100
23) Diisopropylether (DIPE)	9.36	45	1566191	24.78	ug/L	100
24) cis-1,2-dichloroethene	9.54	96	479600	24.09	ug/L	100
25) Bromochloromethane	9.76	128	170713	24.80	ug/L	100
26) Chloroform	9.81	83	878352	23.68	ug/L	100
27) 2,2-Dichloropropane	9.92	77	693793	23.26	ug/L	100
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	1208030	25.18	ug/L	100
30) 1,2-Dichloroethane	10.66	62	568789	24.53	ug/L	100
31) 1,1,1-Trichloroethane	10.79	97	788548	24.29	ug/L	100
32) (TAME) tert-Amyl methy eth	11.50	73	842890	25.15	ug/L	100
34) 1,1-Dichloropropene	11.03	75	608213	24.12	ug/L	100
35) Carbon tetrachloride	11.27	117	656950	24.61	ug/L	100
36) Benzene	11.32	78	1508513	23.73	ug/L	100
37) Dibromomethane	12.05	93	233206	24.93	ug/L	100
38) 1,2-Dichloropropane	12.09	63	391394	24.43	ug/L	100
39) Trichloroethene	12.14	95	480291	24.36	ug/L	100
40) Bromodichloromethane	12.20	83	613515	24.63	ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141114.D Vial: 11
Acq On : 14 Mar 2011 1:53 pm Operator: NL
Sample : 25 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:31 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

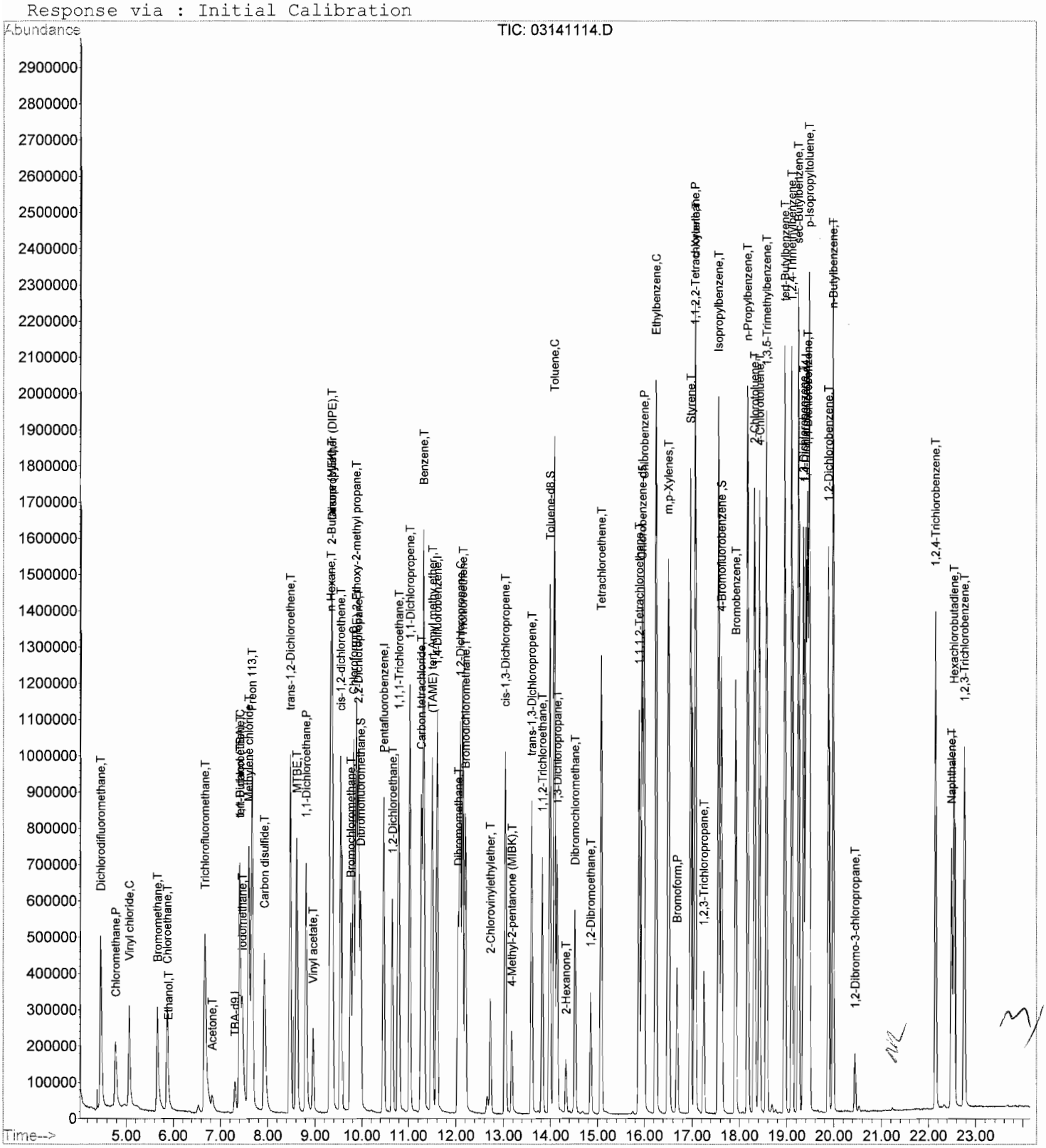
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	137088	26.14 ug/L	100
42)	cis-1,3-Dichloropropene	13.04	75	607840	24.94 ug/L	100
43)	4-Methyl-2-pentanone (MIBK	13.17	43	203600	25.73 ug/L	100
44)	trans-1,3-Dichloropropene	13.60	75	511251	25.50 ug/L	100
45)	1,1,2-Trichloroethane	13.82	97	262319	24.69 ug/L	100
47)	Toluene	14.08	92	933074	24.15 ug/L	100
49)	1,3-Dichloropropane	14.14	76	441640	24.13 ug/L	100
50)	2-Hexanone	14.33	43	131540	22.89 ug/L	100
51)	Dibromochloromethane	14.52	129	360432	24.88 ug/L	100
52)	1,2-Dibromoethane	14.85	107	270589	24.51 ug/L	100
53)	Tetrachloroethene	15.08	164	379594	23.25 ug/L	100
54)	1,1,1,2-Tetrachloroethane	15.88	131	376298	22.50 ug/L	100
55)	Chlorobenzene	15.99	112	1006476	23.41 ug/L	100
56)	Ethylbenzene	16.24	91	1857231	24.15 ug/L	100
57)	m,p-Xylenes	16.51	106	628744	23.20 ug/L	100
58)	Styrene	16.96	104	1001976	24.34 ug/L	100
59)	o-Xylene	17.06	106	605795	25.36 ug/L	100
62)	Bromoform	16.68	173	233549	26.59 ug/L	100
63)	1,1,2,2-Tetrachloroethane	17.05	83	245970	25.85 ug/L	100
64)	1,2,3-Trichloropropane	17.25	110	70464	25.51 ug/L	100
65)	Isopropylbenzene	17.56	105	1606150	25.39 ug/L	100
66)	Bromobenzene	17.92	156	438696	25.08 ug/L	100
67)	n-Propylbenzene	18.17	91	2037149	24.85 ug/L	100
68)	2-Chlorotoluene	18.31	91	1271086	24.57 ug/L	100
69)	4-Chlorotoluene	18.42	91	1278799	24.32 ug/L	100
70)	1,3,5-Trimethylbenzene	18.57	105	1397804	24.64 ug/L	100
71)	tert-Butylbenzene	18.96	119	1141649	24.74 ug/L	100
72)	1,2,4-Trimethylbenzene	19.11	105	1421815	25.01 ug/L	100
73)	sec-Butylbenzene	19.25	105	1824073	25.09 ug/L	100
74)	1,3-Dichlorobenzene	19.36	146	756893	24.15 ug/L	100
75)	1,4-Dichlorobenzene	19.44	146	756886	24.14 ug/L	100
76)	p-Isopropyltoluene	19.48	119	1459478	24.88 ug/L	100
77)	1,2-Dichlorobenzene	19.88	146	683579	24.93 ug/L	100
78)	n-Butylbenzene	19.98	91	1484636	25.20 ug/L	100
79)	1,2-Dibromo-3-chloropropan	20.45	75	41975	24.35 ug/L	100
80)	1,2,4-Trichlorobenzene	22.15	180	566108	25.44 ug/L	100
81)	Naphthalene	22.50	128	700850	27.03 ug/L	100
82)	Hexachlorobutadiene	22.55	225	304001	25.89 ug/L	100
83)	1,2,3-Trichlorobenzene	22.77	180	451962	25.34 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141114.D Vial: 11
Acq On : 14 Mar 2011 1:53 pm Operator: NL
Sample : 25 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:31 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141115.D Vial: 12
Acq On : 14 Mar 2011 2:25 pm Operator: NL
Sample : 50 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:32 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	129547	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	670991	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	997408	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	901010	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	492423	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.97	113	393722	25.59 ug/L	0.00
Spiked Amount 25.000			Recovery =	102.36%	
46) Toluene-d8	13.99	98	1093905	24.87 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.48%	
60) 4-Bromofluorobenzene	17.62	95	493360	24.82 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.28%	
Target Compounds					Qvalue
2) Ethanol	5.90	45	28140	544.97 ug/L	94
3) tert-Butanol (TBA)	7.41	59	168991	259.75 ug/L	98
5) Dichlorodifluoromethane	4.48	85	1268670	51.61 ug/L	100
6) Chloromethane	4.77	50	648190	46.48 ug/L	99
7) Vinyl chloride	5.06	62	751169	50.37 ug/L	98
8) Bromomethane	5.66	94	677359	52.19 ug/L	95
9) Chloroethane	5.87	64	623605	49.05 ug/L	99
10) Trichlorofluoromethane	6.68	101	1567791	51.21 ug/L	97
11) Acetone	6.83	43	161282	48.51 ug/L	98
12) Iodomethane	7.46	142	867752	56.43 ug/L	92
13) 1,1-Dichloroethene	7.40	96	776665	49.40 ug/L	99
14) Methylene chloride	7.60	84	878225	47.42 ug/L	100
15) Freon 113	7.66	101	1003135	50.93 ug/L	99
16) Carbon disulfide	7.93	76	1986824	45.45 ug/L	100
17) trans-1,2-Dichloroethene	8.48	96	870839	48.88 ug/L	99
18) MTBE	8.62	73	1655128	51.73 ug/L	99
19) 1,1-Dichloroethane	8.80	63	1598093	48.13 ug/L	100
20) Vinyl acetate	8.96	43	807302	52.56 ug/L	100
21) n-Hexane	9.33	86	160622	49.00 ug/L	95
22) 2-Butanone (MEK)	9.34	72	42923	48.48 ug/L #	88
23) Diisopropylether (DIPE)	9.36	45	3035894	50.08 ug/L	100
24) cis-1,2-dichloroethene	9.55	96	919113	48.12 ug/L	99
25) Bromochloromethane	9.76	128	330831	50.10 ug/L	99
26) Chloroform	9.82	83	1706643	47.96 ug/L	97
27) 2,2-Dichloropropane	9.92	77	1333015	46.60 ug/L	100
28) (ETBE) 2-Ethoxy-2-methyl p	9.88	59	2371842	51.53 ug/L	98
30) 1,2-Dichloroethane	10.66	62	1113207	50.05 ug/L	100
31) 1,1,1-Trichloroethane	10.80	97	1562600	50.18 ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	1664448	51.78 ug/L	99
34) 1,1-Dichloropropene	11.03	75	1190399	48.03 ug/L	99
35) Carbon tetrachloride	11.27	117	1325694	50.54 ug/L	99
36) Benzene	11.32	78	3016498	48.28 ug/L	100
37) Dibromomethane	12.04	93	455004	49.50 ug/L	99
38) 1,2-Dichloropropane	12.09	63	756947	48.08 ug/L	98
39) Trichloroethene	12.15	95	914194	47.18 ug/L	99
40) Bromodichloromethane	12.20	83	1230941	50.29 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141115.D Vial: 12
Acq On : 14 Mar 2011 2:25 pm Operator: NL
Sample : 50 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:32 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

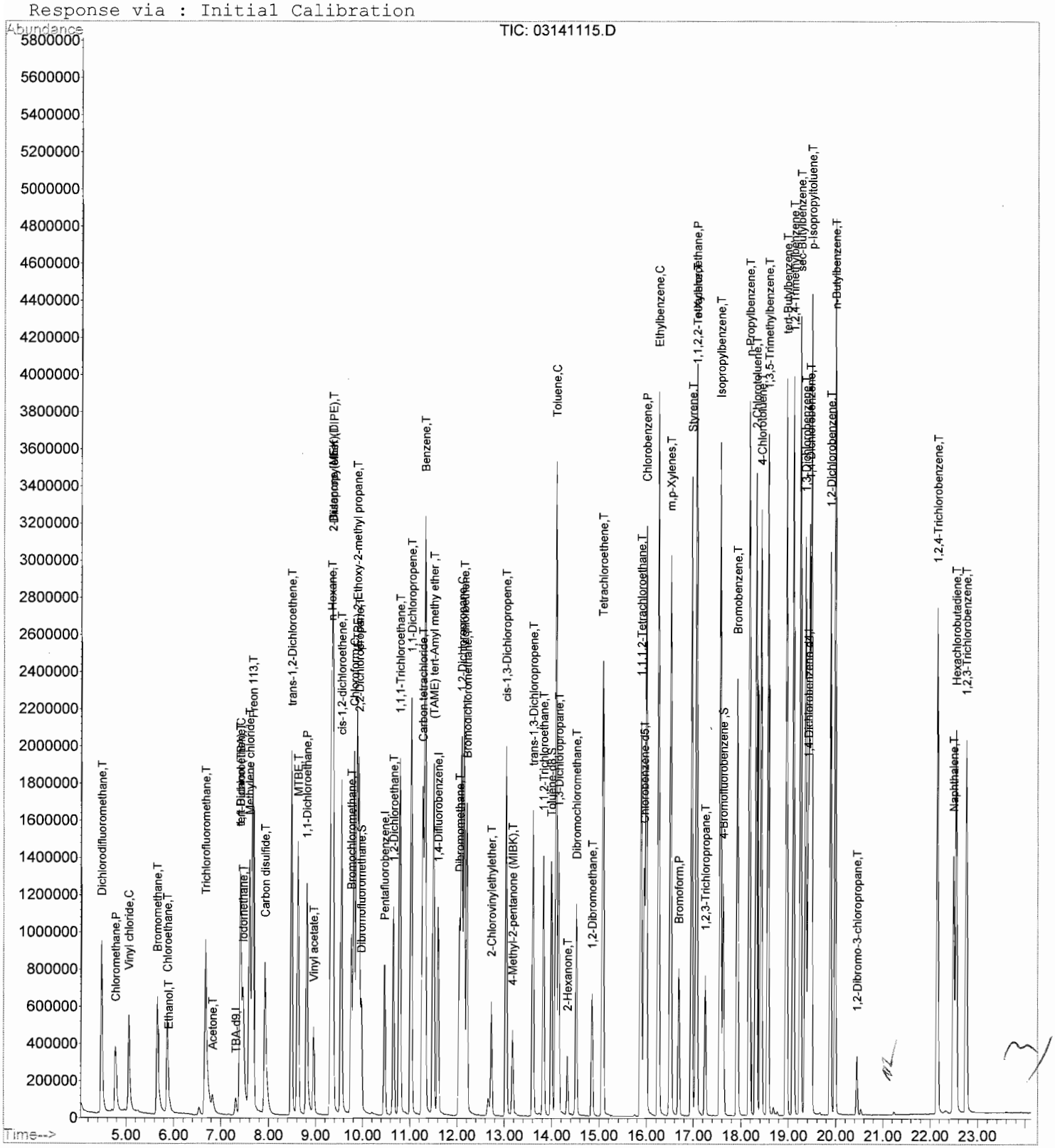
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	266778	51.77	ug/L	99
42)	cis-1,3-Dichloropropene	13.04	75	1185095	49.48	ug/L	99
43)	4-Methyl-2-pentanone (MIBK	13.18	43	398644	51.28	ug/L	98
44)	trans-1,3-Dichloropropene	13.61	75	1001184	50.82	ug/L	99
45)	1,1,2-Trichloroethane	13.82	97	514332	49.26	ug/L	99
47)	Toluene	14.09	92	1779817	46.88	ug/L	99
49)	1,3-Dichloropropane	14.15	76	852950	48.41	ug/L	97
50)	2-Hexanone	14.33	43	268872	48.60	ug/L	99
51)	Dibromochloromethane	14.52	129	714956	51.27	ug/L	100
52)	1,2-Dibromoethane	14.85	107	529074	49.79	ug/L	99
53)	Tetrachloroethene	15.08	164	745600	47.43	ug/L	99
54)	1,1,1,2-Tetrachloroethane	15.88	131	735432	45.69	ug/L	99
55)	Chlorobenzene	15.99	112	1983395	47.93	ug/L	99
56)	Ethylbenzene	16.25	91	3510837	47.42	ug/L	100
57)	m,p-Xylenes	16.51	106	1231716	47.22	ug/L	99
58)	Styrene	16.96	104	1956092	49.37	ug/L	99
59)	o-Xylene	17.07	106	1115033	49.34	ug/L	99
62)	Bromoform	16.69	173	463856	52.82	ug/L	98
63)	1,1,2,2-Tetrachloroethane	17.05	83	450936	47.40	ug/L	100
64)	1,2,3-Trichloropropane	17.25	110	136352	49.38	ug/L	99
65)	Isopropylbenzene	17.56	105	3017352	47.71	ug/L	100
66)	Bromobenzene	17.93	156	844066	48.26	ug/L	100
67)	n-Propylbenzene	18.17	91	3910942	47.73	ug/L	99
68)	2-Chlorotoluene	18.31	91	2485264	48.05	ug/L	99
69)	4-Chlorotoluene	18.42	91	2464108	46.88	ug/L	99
70)	1,3,5-Trimethylbenzene	18.58	105	2698442	47.58	ug/L	100
71)	tert-Butylbenzene	18.96	119	2181767	47.29	ug/L	100
72)	1,2,4-Trimethylbenzene	19.11	105	2665132	46.89	ug/L	100
73)	sec-Butylbenzene	19.25	105	3448685	47.45	ug/L	100
74)	1,3-Dichlorobenzene	19.36	146	1457934	46.52	ug/L	100
75)	1,4-Dichlorobenzene	19.44	146	1453388	46.37	ug/L	99
76)	p-Isopropyltoluene	19.48	119	2797988	47.71	ug/L	100
77)	1,2-Dichlorobenzene	19.88	146	1316655	48.03	ug/L	100
78)	n-Butylbenzene	19.98	91	2914423	49.48	ug/L	99
79)	1,2-Dibromo-3-chloropropan	20.45	75	85744	49.76	ug/L	98
80)	1,2,4-Trichlorobenzene	22.15	180	1130857	50.84	ug/L	99
81)	Naphthalene	22.50	128	1372583	52.96	ug/L	99
82)	Hexachlorobutadiene	22.55	225	587184	50.03	ug/L	99
83)	1,2,3-Trichlorobenzene	22.77	180	898332	50.38	ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141115.D Vial: 12
Acq On : 14 Mar 2011 2:25 pm Operator: NL
Sample : 50 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:32 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141116.D Vial: 13
Acq On : 14 Mar 2011 2:57 pm Operator: NL
Sample : 100 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:32 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.31	65	113794	200.00	ug/L	0.00
4) Pentafluorobenzene	10.48	168	693519	25.00	ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	1026382	25.00	ug/L	0.00
48) Chlorobenzene-d5	15.95	117	955378	25.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	487259	25.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	9.97	113	404725	25.45	ug/L	0.00
Spiked Amount 25.000			Recovery	=	101.80%	
46) Toluene-d8	13.99	98	1139190	25.17	ug/L	0.00
Spiked Amount 25.000			Recovery	=	100.68%	
60) 4-Bromofluorobenzene	17.63	95	485891	23.06	ug/L	0.00
Spiked Amount 25.000			Recovery	=	92.24%	
Target Compounds						Qvalue
2) Ethanol	5.91	45	46631	1028.08	ug/L	99
3) tert-Butanol (TBA)	7.42	59	300094	530.21	ug/L	100
5) Dichlorodifluoromethane	4.48	85	2554129	100.53	ug/L	100
6) Chloromethane	4.77	50	1645801	114.18	ug/L	99
7) Vinyl chloride	5.05	62	1581189	102.58	ug/L	98
8) Bromomethane	5.66	94	1531021	104.12	ug/L	92
9) Chloroethane	5.87	64	1202091	91.48	ug/L	99
10) Trichlorofluoromethane	6.68	101	3224844	101.92	ug/L	99
11) Acetone	6.83	43	314036	91.39	ug/L	100
12) Iodomethane	7.47	142	1661350	103.01	ug/L	94
13) 1,1-Dichloroethene	7.42	96	1609439	99.04	ug/L	99
14) Methylene chloride	7.60	84	1776246	92.80	ug/L	99
15) Freon 113	7.67	101	2074880	101.93	ug/L	99
16) Carbon disulfide	7.93	76	4260339	94.30	ug/L	99
17) trans-1,2-Dichloroethene	8.49	96	1781041	96.72	ug/L	98
18) MTBE	8.62	73	3369949	101.91	ug/L	100
19) 1,1-Dichloroethane	8.81	63	3337302	97.25	ug/L	100
20) Vinyl acetate	8.96	43	1672603	105.37	ug/L	100
21) n-Hexane	9.33	86	320247	94.53	ug/L	94
22) 2-Butanone (MEK)	9.35	72	84260	92.08	ug/L #	85
23) Diisopropylether (DIPE)	9.37	45	5832515	93.08	ug/L	99
24) cis-1,2-dichloroethene	9.55	96	1915971	97.05	ug/L	99
25) Bromochloromethane	9.76	128	695057	101.84	ug/L #	77
26) Chloroform	9.82	83	3490527	94.91	ug/L	97
27) 2,2-Dichloropropane	9.92	77	2752255	93.08	ug/L	97
28) (ETBE) 2-Ethoxy-2-methyl p	9.88	59	4704788	98.89	ug/L	98
30) 1,2-Dichloroethane	10.66	62	2288489	99.54	ug/L	100
31) 1,1,1-Trichloroethane	10.79	97	3196019	99.30	ug/L	100
32) (TAME) tert-Amyl methy eth	11.50	73	3339084	100.50	ug/L	99
34) 1,1-Dichloropropene	11.03	75	2483128	97.36	ug/L	100
35) Carbon tetrachloride	11.27	117	2708678	100.35	ug/L	100
36) Benzene	11.32	78	6052292	94.14	ug/L	99
37) Dibromomethane	12.05	93	912847	96.51	ug/L	99
38) 1,2-Dichloropropane	12.09	63	1518990	93.76	ug/L	98
39) Trichloroethene	12.15	95	1886393	94.60	ug/L	99
40) Bromodichloromethane	12.21	83	2439967	96.87	ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141116.D Vial: 13
Acq On : 14 Mar 2011 2:57 pm Operator: NL
Sample : 100 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:32 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

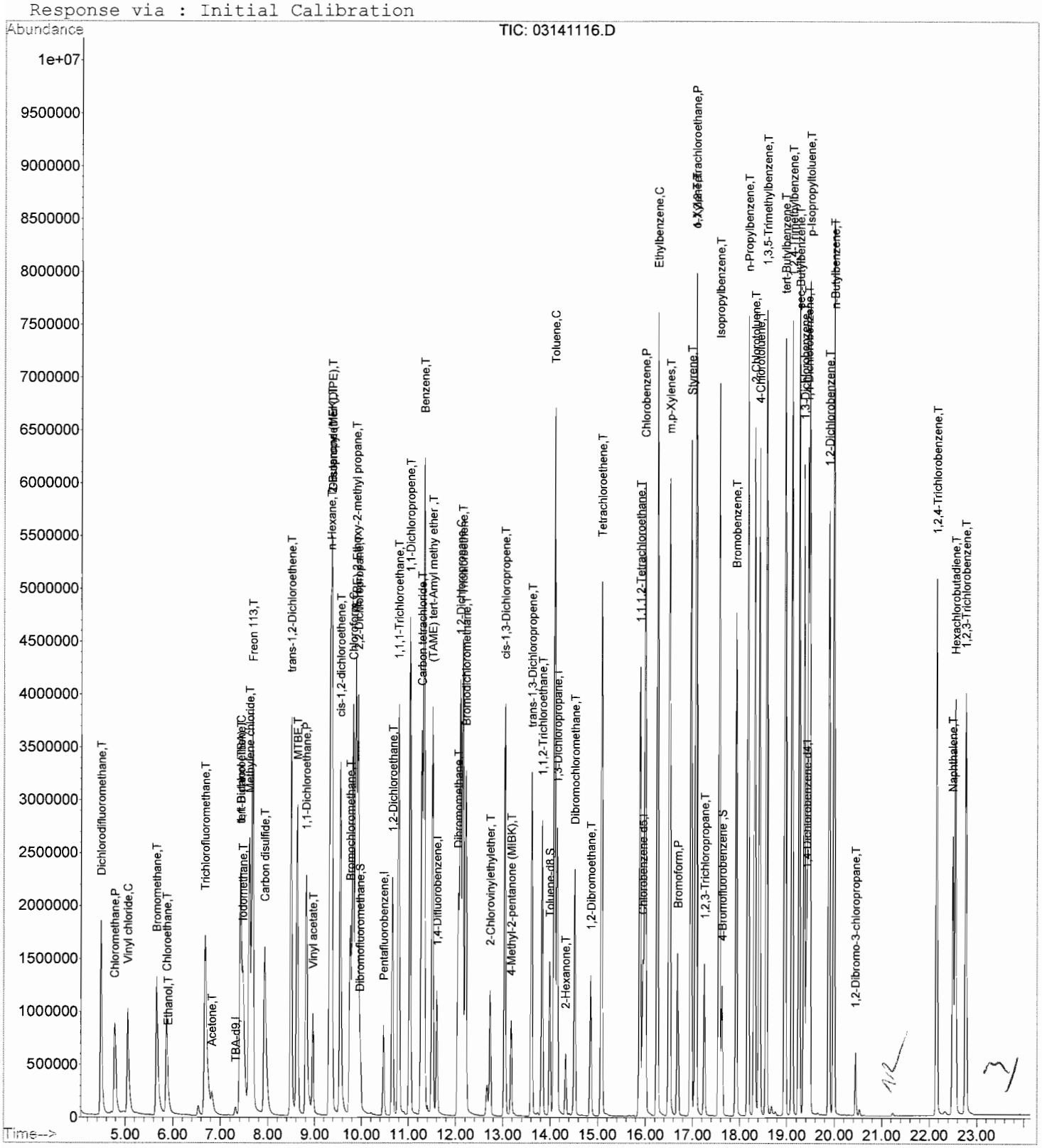
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	540136	101.86 ug/L	98
42)	cis-1,3-Dichloropropene	13.04	75	2422907	98.31 ug/L	99
43)	4-Methyl-2-pentanone (MIBK	13.18	43	790515	98.81 ug/L	99
44)	trans-1,3-Dichloropropene	13.61	75	2038801	100.56 ug/L	99
45)	1,1,2-Trichloroethane	13.83	97	1058683	98.54 ug/L	97
47)	Toluene	14.09	92	3515212	89.97 ug/L	98
49)	1,3-Dichloropropane	14.15	76	1708221	91.44 ug/L	98
50)	2-Hexanone	14.33	43	518728	88.43 ug/L	99
51)	Dibromochloromethane	14.52	129	1459234	98.69 ug/L	99
52)	1,2-Dibromoethane	14.86	107	1082579	96.07 ug/L	99
53)	Tetrachloroethene	15.08	164	1519487	91.16 ug/L	99
54)	1,1,1,2-Tetrachloroethane	15.89	131	1512845	88.64 ug/L	99
55)	Chlorobenzene	16.00	112	3917483	89.29 ug/L	99
56)	Ethylbenzene	16.25	91	6837089	87.09 ug/L	99
57)	m,p-Xylenes	16.51	106	2462109	89.02 ug/L	98
58)	Styrene	16.97	104	3789547	90.20 ug/L	100
59)	o-Xylene	17.07	106	2256874	96.83 ug/L	97
62)	Bromoform	16.69	173	944244	108.66 ug/L	98
63)	1,1,2,2-Tetrachloroethane	17.05	83	873846	92.83 ug/L	100
64)	1,2,3-Trichloropropane	17.26	110	274845	100.60 ug/L	97
65)	Isopropylbenzene	17.57	105	5973801	95.45 ug/L	99
66)	Bromobenzene	17.92	156	1680625	97.11 ug/L	98
67)	n-Propylbenzene	18.17	91	7541537	93.01 ug/L	98
68)	2-Chlorotoluene	18.32	91	4704101	91.91 ug/L	100
69)	4-Chlorotoluene	18.42	91	4886954	93.95 ug/L	99
70)	1,3,5-Trimethylbenzene	18.57	105	5395308	96.13 ug/L	98
71)	tert-Butylbenzene	18.97	119	4264845	93.42 ug/L	100
72)	1,2,4-Trimethylbenzene	19.11	105	5218841	92.80 ug/L	99
73)	sec-Butylbenzene	19.25	105	6692864	93.05 ug/L	99
74)	1,3-Dichlorobenzene	19.36	146	2835322	91.44 ug/L	99
75)	1,4-Dichlorobenzene	19.44	146	2796075	90.16 ug/L	99
76)	p-Isopropyltoluene	19.48	119	5291995	91.19 ug/L	100
77)	1,2-Dichlorobenzene	19.89	146	2559332	94.35 ug/L	99
78)	n-Butylbenzene	19.99	91	5507303	94.50 ug/L	99
79)	1,2-Dibromo-3-chloropropan	20.44	75	161576	94.76 ug/L	98
80)	1,2,4-Trichlorobenzene	22.16	180	2217200	100.74 ug/L	99
81)	Naphthalene	22.50	128	2569603	100.19 ug/L	99
82)	Hexachlorobutadiene	22.55	225	1189477	102.42 ug/L	100
83)	1,2,3-Trichlorobenzene	22.77	180	1773297	100.51 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141116.D Vial: 13
Acq On : 14 Mar 2011 2:57 pm Operator: NL
Sample : 100 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:32 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141117.D Vial: 14
Acq On : 14 Mar 2011 3:29 pm Operator: NL
Sample : 200 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:33 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.32	65	129365	200.00 ug/L	0.01
4) Pentafluorobenzene	10.47	168	699660	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.61	114	1006186	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	917970	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	479748	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.98	113	398274	24.83 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.32%	
46) Toluene-d8	13.99	98	1157719	26.09 ug/L	0.00
Spiked Amount 25.000			Recovery =	104.36%	
60) 4-Bromofluorobenzene	17.62	95	485250	23.96 ug/L	0.00
Spiked Amount 25.000			Recovery =	95.84%	

Target Compounds					Qvalue
2) Ethanol	5.91	45	94550	1833.65 ug/L	100
3) tert-Butanol (TBA)	7.42	59	623983	973.91 ug/L	100
5) Dichlorodifluoromethane	4.48	85	4978796	194.24 ug/L	99
6) Chloromethane	4.77	50	3627894	249.48 ug/L	99
7) Vinyl chloride	5.04	62	2933915	188.67 ug/L	98
8) Bromomethane	5.66	94	3378676	198.09 ug/L	95
9) Chloroethane	5.87	64	2405721	181.47 ug/L	99
10) Trichlorofluoromethane	6.68	101	6347877	198.85 ug/L	98
11) Acetone	6.83	43	712547	205.54 ug/L	99
12) Iodomethane	7.46	142	3664938	223.13 ug/L	93
13) 1,1-Dichloroethene	7.41	96	3203884	195.43 ug/L	99
14) Methylene chloride	7.60	84	3537544	183.19 ug/L	98
15) Freon 113	7.66	101	4003342	194.94 ug/L	99
16) Carbon disulfide	7.93	76	8527296	187.10 ug/L	99
17) trans-1,2-Dichloroethene	8.49	96	3483064	187.48 ug/L	100
18) MTBE	8.62	73	7020635	210.44 ug/L	100
19) 1,1-Dichloroethane	8.81	63	6426123	185.62 ug/L	99
20) Vinyl acetate	8.96	43	3622976	226.23 ug/L	100
21) n-Hexane	9.33	86	604351	176.83 ug/L	98
22) 2-Butanone (MEK)	9.35	72	170530	184.73 ug/L #	68
23) Diisopropylether (DIPE)	9.37	45	11136877	176.17 ug/L	99
24) cis-1,2-dichloroethene	9.55	96	3661493	183.83 ug/L	99
25) Bromochloromethane	9.77	128	1405227	204.09 ug/L #	81
26) Chloroform	9.82	83	6678986	180.01 ug/L	97
27) 2,2-Dichloropropane	9.93	77	5304843	177.83 ug/L	98
28) (ETBE) 2-Ethoxy-2-methyl p	9.88	59	9368890	195.19 ug/L	97
30) 1,2-Dichloroethane	10.66	62	4567841	196.94 ug/L	99
31) 1,1,1-Trichloroethane	10.80	97	6043640	186.12 ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	6670791	199.02 ug/L	99
34) 1,1-Dichloropropene	11.03	75	4722226	188.87 ug/L	99
35) Carbon tetrachloride	11.28	117	5241069	198.06 ug/L	99
36) Benzene	11.32	78	11220600	178.04 ug/L	98
37) Dibromomethane	12.05	93	1825022	196.82 ug/L	99
38) 1,2-Dichloropropane	12.09	63	2880453	181.36 ug/L #	89
39) Trichloroethene	12.15	95	3587777	183.54 ug/L	98
40) Bromodichloromethane	12.21	83	4858580	196.76 ug/L	100

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

m 3/14/11

NL 3/15/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141117.D Vial: 14
Acq On : 14 Mar 2011 3:29 pm Operator: NL
Sample : 200 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:33 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

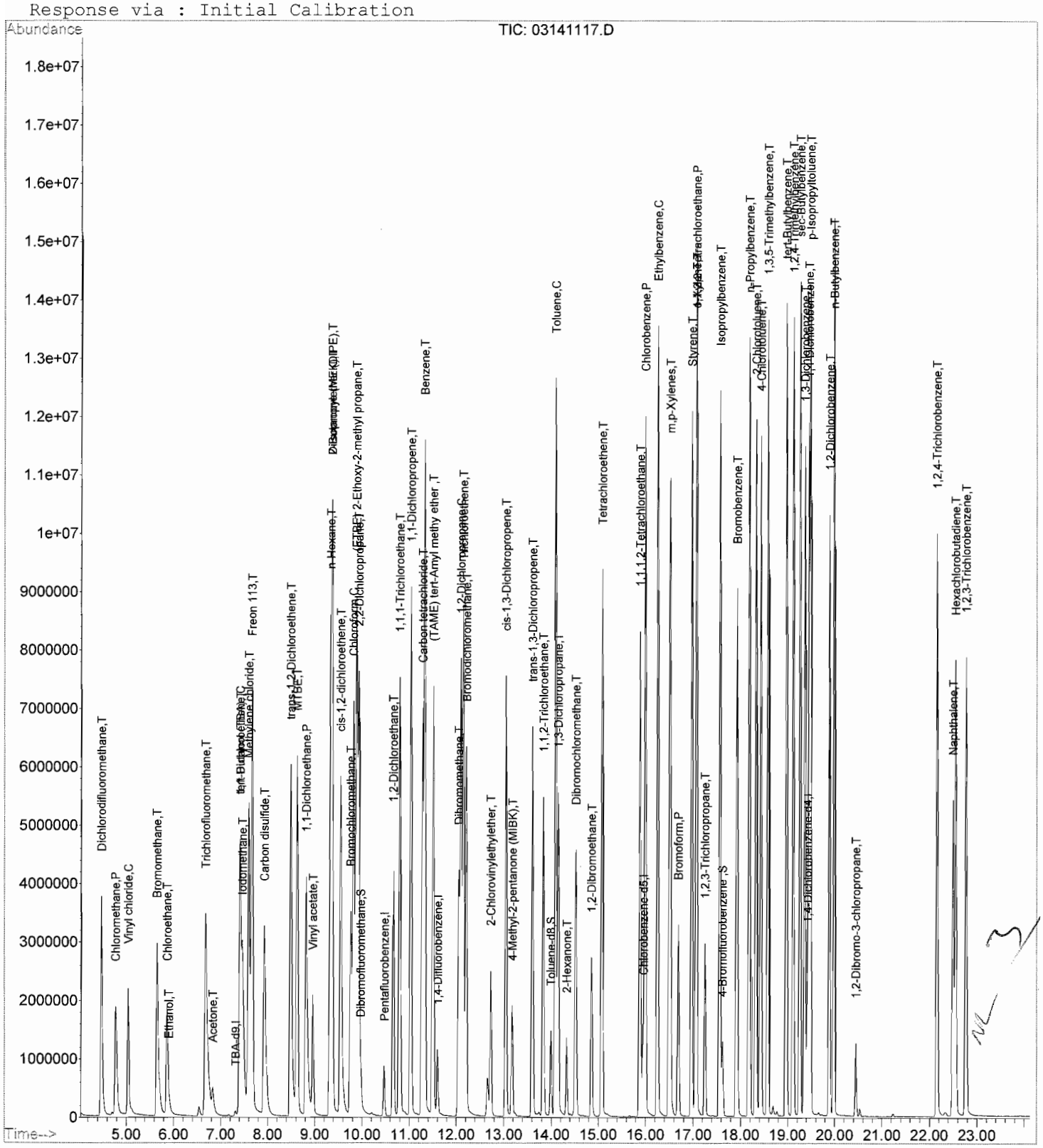
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	1142848	219.84 ug/L	99
42)	cis-1,3-Dichloropropene	13.04	75	4684444	193.90 ug/L	99
43)	4-Methyl-2-pentanone (MIBK	13.17	43	1726401	220.12 ug/L	96
44)	trans-1,3-Dichloropropene	13.61	75	4141624	208.38 ug/L	99
45)	1,1,2-Trichloroethane	13.83	97	2150786	204.20 ug/L	97
47)	Toluene	14.09	92	6860422	179.11 ug/L	97
49)	1,3-Dichloropropane	14.15	76	3459676	192.73 ug/L	98
50)	2-Hexanone	14.33	43	1133041	201.03 ug/L	99
51)	Dibromochloromethane	14.52	129	3004500	211.49 ug/L	100
52)	1,2-Dibromoethane	14.85	107	2245419	207.39 ug/L	98
53)	Tetrachloroethene	15.08	164	2909810	181.69 ug/L	99
54)	1,1,1,2-Tetrachloroethane	15.88	131	3044708	185.67 ug/L	99
55)	Chlorobenzene	15.99	112	7715745	183.03 ug/L	98
56)	Ethylbenzene	16.25	91	12545598	166.32 ug/L	96
57)	m,p-Xylenes	16.52	106	4695826	176.71 ug/L	95
58)	Styrene	16.96	104	7335940	181.73 ug/L	100
59)	o-Xylene	17.07	106	4257910	201.87 ug/L	94
62)	Bromoform	16.69	173	1975315	230.87 ug/L	99
63)	1,1,2,2-Tetrachloroethane	17.06	83	1734795	187.17 ug/L	99
64)	1,2,3-Trichloropropane	17.26	110	571615	212.50 ug/L	97
65)	Isopropylbenzene	17.57	105	11035185	179.08 ug/L	97
66)	Bromobenzene	17.93	156	3228495	189.47 ug/L	98
67)	n-Propylbenzene	18.18	91	13380305	167.60 ug/L	96
68)	2-Chlorotoluene	18.32	91	8705455	172.76 ug/L	98
69)	4-Chlorotoluene	18.42	91	8803914	171.91 ug/L	97
70)	1,3,5-Trimethylbenzene	18.58	105	9721195	175.93 ug/L	96
71)	tert-Butylbenzene	18.96	119	7867457	175.03 ug/L	99
72)	1,2,4-Trimethylbenzene	19.12	105	9604835	173.46 ug/L	97
73)	sec-Butylbenzene	19.26	105	11904238	168.10 ug/L	97
74)	1,3-Dichlorobenzene	19.36	146	5330110	174.58 ug/L	99
75)	1,4-Dichlorobenzene	19.44	146	5270566	172.61 ug/L	100
76)	p-Isopropyltoluene	19.49	119	9529633	166.78 ug/L	99
77)	1,2-Dichlorobenzene	19.89	146	4794946	179.53 ug/L	99
78)	n-Butylbenzene	19.98	91	9702846	169.09 ug/L	96
79)	1,2-Dibromo-3-chloropropan	20.45	75	325159	193.69 ug/L	94
80)	1,2,4-Trichlorobenzene	22.15	180	4350123	200.74 ug/L	99
81)	Naphthalene	22.50	128	5414389	214.41 ug/L	98
82)	Hexachlorobutadiene	22.55	225	2333987	204.10 ug/L	99
83)	1,2,3-Trichlorobenzene	22.77	180	3553855	204.58 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031411\03141117.D Vial: 14
Acq On : 14 Mar 2011 3:29 pm Operator: NL
Sample : 200 PPB CAL PT Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:33 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD: 8260B

DATE: 03/17/2011

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department:	Volatiles	Method:	8260B	Instrument #:	Gcms 7
Analyst:	LC			Analysis Date:	03/17/11

Method name saved in the file:

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9), 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? (Y) N
   If yes, what points were removed or replaced: (lowest) middle (highest)
   List of the analytes: Acetone, Methylene chloride, MEK, 2-CEVE, MIBK, 2-Hexanone, 1,2-Dibromo-3-chloropropane, Naphthalene
   Why? LRL, Curve Fit
5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☑ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☑ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst:	[signature]	Date:	03/18/11
	Reviewer:	[signature]	Date:	3/11/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Attachment 2
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-011 R.0
VOCs in Vapor [Method No. 8260B AZ Method]

Analysis Date: 03/17/11	Analyst: LC

Description	Yes	No	NA[1]
1. BFB (50 ng or less): Verify meets criteria very 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.M	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:			
- Second source within historical limits	✓		
- Tertiary source within 50 – 150% recovery	✓	✓	(1)
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓		
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)			N/A
- Must be analyzed per 20 samples/per matrix/per batch			
- LCS/LSCD recoveries within historical limits			
- RPD ≤ 25%			
- Surrogates within historical limits			
6. Samples			
- Analyzed within 72 hours of sampling			
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL			
- Surrogate recoveries within historical limits			
- Sample Duplicate performed every 10 samples			

Comments:

(1) Bromomethane – NI – See CAR

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:	Analyst: [signature]	Date: 03/18/11
	Reviewer: [signature]	Date: 3/18/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

Instrument ID	GCMS 7
Date:	03/17/11
Analyst	LC
Method(s)	8260B
50 ppm Cal. Std.	PU01525
2.5 ppm Cal. Std.	PU01528
500 / 250 ppm EtOH/TBA Cal. Std.	N/A
50 / 25 ppm EtOH/TBA Cal. Std.	N/A
50 ppm SS Std.	PU01537
500 / 250 ppm EtOH/TBA SS Std.	N/A

3° Gas: PT06459

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

SS/ICVs are at the same level as Calibration point #6 and prepared the same way.

Reviewed By: [signature] Date: 3/18/11

LC 03/18/11

Response Factor Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

Calibration File
0.5 =03171106.D 1.0 =03171107.D 2.0 =03171108.D 5.0 =03171109.D
25.0 =03171111.D 50.0 =03171112.D 100. =03171113.D 200. =03171114.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD	
I	Pentafluorobenzene	----------ISTD----------											
T	Dichlorodifluoromethane	1.278	1.131	1.176	1.343	1.199	1.217	1.132	1.112	1.041	1.181	7.72	
TMP	Chloromethane	1.965	1.722	1.705	2.115	2.031	1.963	1.991	2.043	2.039	1.953	7.34	
TMC	Vinyl chloride	1.791	1.789	1.668	1.817	1.677	1.725	1.728	1.753	1.700	1.739	3.03	
TM	Bromomethane	0.920	0.793	0.521	0.711	0.801	0.859	0.858	0.916	0.940	0.813	16.17	Linear r^2= 0.997
TM	Chloroethane	1.005	1.039	0.879	0.958	0.956	0.913	0.871	0.834	0.839	0.922	7.88	
TM	Trichlorofluoromethane	1.302	1.243	1.207	1.370	1.280	1.303	0.986	0.997	1.191	1.209	11.13	
T	Acetone			0.374	0.261	0.172	0.158	0.128	0.120	0.141	0.194	47.71	Linear r^2= 0.991
T	Iodomethane	0.379	0.589	0.400	0.584	0.546	0.597	0.565	0.561	0.556	0.531	15.44	Linear r^2= 0.999
TMC	1,1-Dichloroethene	0.860	0.836	0.621	0.721	0.703	0.678	0.638	0.643	0.644	0.705	12.41	
TM	Methylene chloride		1.032	0.802	0.901	0.831	0.804	0.764	0.757	0.744	0.830	11.53	
	Freon 113	1.047	0.958	0.765	0.861	0.786	0.813	0.761	0.768	0.755	0.835	12.34	
T	Carbon disulfide	2.991	2.718	2.262	2.705	2.441	2.445	2.339	2.359	2.318	2.509	9.68	
TM	trans-1,2-Dichloroethene	0.822	0.931	0.715	0.835	0.766	0.772	0.720	0.735	0.725	0.780	9.14	
T	MTBE	1.501	1.617	1.243	1.449	1.271	1.308	1.179	1.227	1.204	1.333	11.45	
TMP	1,1-Dichloroethane	1.773	1.868	1.535	1.752	1.632	1.610	1.498	1.506	1.474	1.628	8.66	
T	Vinyl acetate	1.436	1.510	1.090	1.380	1.226	1.231	1.161	1.181	1.162	1.264	11.34	
T	2-Butanone (MEK)			0.013	0.037	0.040	0.042	0.040	0.040	0.040	0.036#	27.95	Linear r^2= 0.999
T	cis-1,2-Dichloroethene	0.915	0.789	0.816	0.898	0.803	0.800	0.745	0.754	0.751	0.808	7.61	
T	Bromochloromethane	0.338	0.306	0.271	0.338	0.314	0.289	0.279	0.273	0.253	0.296	10.21	
TMC	Chloroform	1.474	1.291	1.359	1.505	1.426	1.329	1.229	1.253	1.222	1.343	7.86	
T	2,2-Dichloropropane	1.151	1.062	1.049	1.207	1.108	1.096	1.056	1.056	1.014	1.089	5.45	
S	Dibromofluoromethane	0.743	0.594	0.581	0.695	0.640	0.629	0.585	0.607	0.588	0.629	8.90	
TM	1,2-Dichloroethane	0.873	0.905	0.802	0.893	0.804	0.830	0.757	0.772	0.740	0.820	7.31	
TM	1,1,1-Trichloroethane	0.981	0.938	0.900	1.069	0.997	0.987	0.937	0.942	0.927	0.964	5.23	
I	1,4-Difluorobenzene	----------ISTD----------											
T	1,1-Dichloropropene	0.676	0.609	0.621	0.674	0.653	0.658	0.630	0.618	0.620	0.640	4.00	
TM	Carbon tetrachloride	0.426	0.417	0.414	0.477	0.459	0.458	0.442	0.442	0.440	0.442	4.67	
TM	Benzene	1.854	1.747	1.665	1.787	1.702	1.685	1.664	1.658	1.636	1.711	4.18	
T	Dibromomethane	0.220	0.217	0.194	0.215	0.208	0.199	0.193	0.191	0.186	0.202	6.23	
TMC	1,2-Dichloropropane	0.525	0.461	0.462	0.521	0.468	0.481	0.465	0.464	0.454	0.478	5.57	
TM	Trichloroethene	0.455	0.415	0.412	0.467	0.422	0.428	0.421	0.419	0.412	0.428	4.61	
TM	Bromodichloromethane	0.507	0.483	0.464	0.551	0.511	0.518	0.496	0.501	0.491	0.502	4.85	
T	2-Chlorovinylethylether			0.111	0.123	0.108	0.100	0.086	0.080		0.101	15.92	Linear r^2= 0.990
TM	cis-1,3-Dichloropropene	0.588	0.595	0.568	0.665	0.626	0.630	0.602	0.611	0.602	0.610	4.62	

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	4-Methyl-2-pentanone (MIBK)		0.296	0.223	0.257	0.245	0.246	0.237	0.250	0.244	0.250	8.48
TM	trans-1,3-Dichloropropene	0.429	0.486	0.437	0.505	0.482	0.485	0.478	0.470	0.463	0.471	5.22
TM	1,1,2-Trichloroethane	0.230	0.224	0.221	0.244	0.234	0.228	0.218	0.221	0.216	0.226	3.97
S	Toluene-d8	1.506	1.274	1.214	1.274	1.213	1.236	1.199	1.217	1.214	1.261	7.60
TMC	Toluene	1.070	0.895	0.962	1.017	0.968	0.969	0.963	0.955	0.954	0.973	4.92
I	Chlorobenzene-d5	----------ISTD----------										
T	1,3-Dichloropropane	0.535	0.569	0.533	0.642	0.578	0.578	0.552	0.560	0.543	0.566	5.90
T	2-Hexanone			0.153	0.215	0.180	0.183	0.192	0.202	0.194	0.189	10.33
TM	Dibromochloromethane	0.421	0.294	0.319	0.347	0.331	0.338	0.336	0.340	0.336	0.340	10.04
T	1,2-Dibromoethane	0.265	0.251	0.278	0.321	0.291	0.290	0.283	0.293	0.282	0.284	6.84
TM	Tetrachloroethene	0.491	0.416	0.421	0.457	0.454	0.451	0.444	0.454	0.448	0.448	4.86
T	1,1,1,2-Tetrachloroethane	0.419	0.370	0.348	0.372	0.362	0.362	0.359	0.370	0.370	0.370	5.34
TMP	Chlorobenzene	1.278	1.127	1.115	1.215	1.160	1.173	1.147	1.185	1.173	1.175	4.18
TMC	Ethylbenzene	2.432	2.116	2.077	2.272	2.199	2.221	2.180	2.235	2.188	2.214	4.57
T	m,p-Xylenes	0.914	0.710	0.745	0.803	0.758	0.769	0.749	0.770	0.760	0.775	7.43
T	Styrene	1.044	1.064	1.123	1.265	1.177	1.217	1.199	1.239	1.255	1.176	6.94
T	o-Xylene	0.865	0.741	0.720	0.770	0.734	0.734	0.728	0.747	0.744	0.754	5.84
S	4-Bromofluorobenzene	0.666	0.563	0.532	0.559	0.520	0.531	0.517	0.534	0.509	0.548	8.71
	1,4-Dichlorobenzene-d4	----------ISTD----------										
TMP	Bromoform	0.346	0.342	0.330	0.398	0.372	0.377	0.377	0.381	0.334	0.362	6.65
TMP	1,1,2,2-Tetrachloroethane	0.776	0.777	0.741	0.769	0.759	0.732	0.718	0.714	0.603	0.732	7.38
T	1,2,3-Trichloropropane	0.119	0.178	0.161	0.182	0.165	0.168	0.160	0.158	0.143	0.159	11.89
T	Isopropylbenzene	4.005	3.607	3.797	3.945	4.018	3.966	3.899	3.859	3.357	3.828	5.68
T	Bromobenzene	0.821	0.849	0.879	0.932	0.930	0.936	0.909	0.898	0.795	0.883	5.79
T	n-Propylbenzene	5.622	5.275	5.271	5.811	5.709	5.635	5.518	5.473	4.873	5.465	5.26
T	2-Chlorotoluene	3.635	3.131	3.065	3.274	3.275	3.246	3.176	3.139	2.874	3.202	6.40
T	4-Chlorotoluene	3.455	2.901	3.111	3.329	3.224	3.287	3.194	3.123	2.942	3.174	5.61
T	1,3,5-Trimethylbenzene	3.482	3.055	3.159	3.421	3.445	3.402	3.291	3.314	3.201	3.308	4.40
T	tert-Butylbenzene	2.867	2.682	2.696	2.874	2.922	2.887	2.853	2.812	2.753	2.816	3.07
T	1,2,4-Trimethylbenzene	3.429	3.228	3.251	3.411	3.407	3.411	3.331	3.302	3.155	3.325	2.94
T	sec-Butylbenzene	4.909	4.685	4.781	4.988	4.889	4.960	4.835	4.770	4.628	4.827	2.53
TM	1,3-Dichlorobenzene	1.922	1.696	1.781	1.842	1.831	1.832	1.788	1.772	1.732	1.800	3.69
TM	1,4-Dichlorobenzene	2.018	1.817	1.769	1.830	1.781	1.799	1.774	1.772	1.748	1.812	4.50
T	p-Isopropyltoluene	3.621	3.386	3.554	3.772	3.840	3.866	3.737	3.736	3.694	3.690	4.07
TM	1,2-Dichlorobenzene	1.676	1.479	1.524	1.652	1.572	1.593	1.551	1.529	1.511	1.565	4.17
T	n-Butylbenzene	4.083	3.836	3.893	4.307	4.176	4.341	4.160	4.146	4.018	4.107	4.15
T	1,2-Dibromo-3-chloropropane		0.086	0.108	0.092	0.106	0.101	0.097	0.096	0.094	0.098#	7.23
T	1,2,4-Trichlorobenzene	0.920	1.036	0.925	1.051	0.955	1.090	1.036	1.068	1.017	1.011	6.18
T	Naphthalene		1.322	1.200	1.403	1.267	1.459	1.356	1.419	1.298	1.341	6.41
T	Hexachlorobutadiene	0.624	0.630	0.633	0.635	0.661	0.684	0.649	0.662	0.632	0.646	3.07
T	1,2,3-Trichlorobenzene	0.835	0.763	0.778	0.889	0.792	0.905	0.830	0.863	0.763	0.824	6.51

(#) = Out of Range

031711.M Thu Mar 17 14:51:40 2011

M

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Calibration Status Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D
2	1.0	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
3	2.0	2	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
4	5.0	5	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
5	10.0	10	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
6	25.0	25	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
7	50.0	50	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
8	100.	100	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
9	200.	200	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Mar 17 14:03 2011	Mar 17 13:56 2011	17 Mar 2011 9:12 am
2	1.0	Mar 17 14:03 2011	Mar 17 13:57 2011	17 Mar 2011 9:43 am
3	2.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:14 am
4	5.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:45 am
5	10.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:15 am
6	25.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:46 am
7	50.0	Mar 17 14:04 2011	Mar 17 14:01 2011	17 Mar 2011 12:17 pm
8	100.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 12:48 pm
9	200.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 1:19 pm

031711.M Thu Mar 17 14:51:31 2011

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Compound List Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Pentafluorobenzene	168	10.60	1.000	A	0	A	L
2	T	Dichlorodifluoromethane	85	4.60	0.434	A	2	A	B
3	T	Chloromethane	50	4.89	0.461	A	1	A	B
4	T	Vinyl chloride	62	5.18	0.489	A	1	A	B
5	T	Bromomethane	94	5.78	0.545	L	1	A	B
6	T	Chloroethane	64	5.98	0.564	A	1	A	B
7	T	Trichlorofluoromethane	101	6.78	0.639	A	1	A	L
8	T	Acetone	43	6.94	0.654	L	1	A	L
9	T	Iodomethane	142	7.57	0.714	L	1	A	B
10	T	1,1-Dichloroethene	96	7.51	0.708	A	2	A	B
11	T	Methylene chloride	84	7.71	0.727	A	2	A	B
12		Freon 113	101	7.77	0.733	A	2	A	B
13	T	Carbon disulfide	76	8.03	0.757	A	0	A	B
14	T	trans-1,2-Dichloroethene	96	8.59	0.810	A	2	A	B
15	T	MTBE	73	8.74	0.824	A	1	A	B
16	T	1,1-Dichloroethane	63	8.92	0.841	A	2	A	B
17	T	Vinyl acetate	43	9.08	0.857	A	1	A	L
18	T	2-Butanone (MEK)	72	9.47	0.893	L	1	A	B
19	T	cis-1,2-Dichloroethene	96	9.66	0.911	A	2	A	B
20	T	Bromochloromethane	128	9.87	0.931	A	2	A	B
21	T	Chloroform	83	9.93	0.936	A	1	A	B
22	T	2,2-Dichloropropane	77	10.04	0.947	A	1	A	B
23	S	Dibromofluoromethane	113	10.09	0.951	A	0	A	B
24	T	1,2-Dichloroethane	62	10.78	1.017	A	1	A	B
25	T	1,1,1-Trichloroethane	97	10.91	1.029	A	2	A	B
26	I	1,4-Difluorobenzene	114	11.73	1.000	A	1	A	B
27	T	1,1-Dichloropropene	75	11.15	0.950	A	2	A	B
28	T	Carbon tetrachloride	117	11.39	0.971	A	1	A	B
29	T	Benzene	78	11.44	0.976	A	1	A	B
30	T	Dibromomethane	93	12.17	1.037	A	2	A	B
31	T	1,2-Dichloropropane	63	12.21	1.041	A	1	A	B
32	T	Trichloroethene	95	12.27	1.046	A	2	A	B
33	T	Bromodichloromethane	83	12.33	1.051	A	2	A	B
34	T	2-Chlorovinylethylether	63	12.86	1.097	L	1	A	B
35	T	cis-1,3-Dichloropropene	75	13.16	1.122	A	1	A	B
36		4-Methyl-2-pentanone (MIBK)	43	13.31	1.135	A	2	A	B
37	T	trans-1,3-Dichloropropene	75	13.73	1.171	A	1	A	B
38	T	1,1,2-Trichloroethane	83	13.95	1.189	A	2	A	B
39	S	Toluene-d8	98	14.12	1.204	A	0	A	B
40	T	Toluene	92	14.21	1.212	A	1	A	B
41	I	Chlorobenzene-d5	117	16.07	1.000	A	0	A	B
42	T	1,3-Dichloropropane	76	14.27	0.888	A	1	A	B
43	T	2-Hexanone	43	14.47	0.900	A	2	A	B
44	T	Dibromochloromethane	129	14.64	0.911	A	1	A	B
45	T	1,2-Dibromoethane	107	14.98	0.932	A	2	A	B
46	T	Tetrachloroethene	166	15.21	0.946	A	2	A	B
47	T	1,1,1,2-Tetrachloroethane	131	16.01	0.996	A	2	A	B
48	T	Chlorobenzene	112	16.12	1.003	A	2	A	B
49	T	Ethylbenzene	91	16.37	1.019	A	1	A	B
50	T	m,p-Xylenes	106	16.64	1.035	A	1	A	B
51	T	Styrene	104	17.09	1.064	A	1	A	B
52	T	o-Xylene	106	17.19	1.070	A	1	A	B
53	S	4-Bromofluorobenzene	95	17.75	1.105	A	2	A	B
54		1,4-Dichlorobenzene-d4	152	19.53	1.000	A	2	A	B
55	T	Bromoform	173	16.81	0.861	A	1	A	B
56	T	1,1,2,2-Tetrachloroethane	83	17.18	0.879	A	2	A	B
57	T	1,2,3-Trichloropropane	110	17.38	0.890	A	1	A	B
58	T	Isopropylbenzene	105	17.69	0.906	A	1	A	B
59	T	Bromobenzene	156	18.05	0.924	A	2	A	B

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60	T	n-Propylbenzene	91	18.30	0.937	A	1	A	B
61	T	2-Chlorotoluene	91	18.44	0.944	A	1	A	R
62	T	4-Chlorotoluene	91	18.55	0.949	A	1	A	R
63	T	1,3,5-Trimethylbenzene	105	18.70	0.957	A	1	A	B
64	T	tert-Butylbenzene	119	19.09	0.977	A	1	A	B
65	T	1,2,4-Trimethylbenzene	105	19.23	0.984	A	1	A	B
66	T	sec-Butylbenzene	105	19.37	0.992	A	1	A	B
67	T	1,3-Dichlorobenzene	146	19.48	0.997	A	2	A	R
68	T	1,4-Dichlorobenzene	146	19.57	1.002	A	2	A	R
69	T	p-Isopropyltoluene	119	19.61	1.004	A	2	A	B
70	T	1,2-Dichlorobenzene	146	20.02	1.025	A	2	A	B
71	T	n-Butylbenzene	91	20.12	1.030	A	1	A	B
72	T	1,2-Dibromo-3-chloropropane	157	20.58	1.054	A	1	A	B
73	T	1,2,4-Trichlorobenzene	180	22.28	1.141	A	1	A	B
74	T	Naphthalene	128	22.63	1.158	A	0	A	B
75	T	Hexachlorobutadiene	225	22.68	1.161	A	1	A	B
76	T	1,2,3-Trichlorobenzene	180	22.90	1.172	A	1	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031711.M Thu Mar 17 14:51:24 2011

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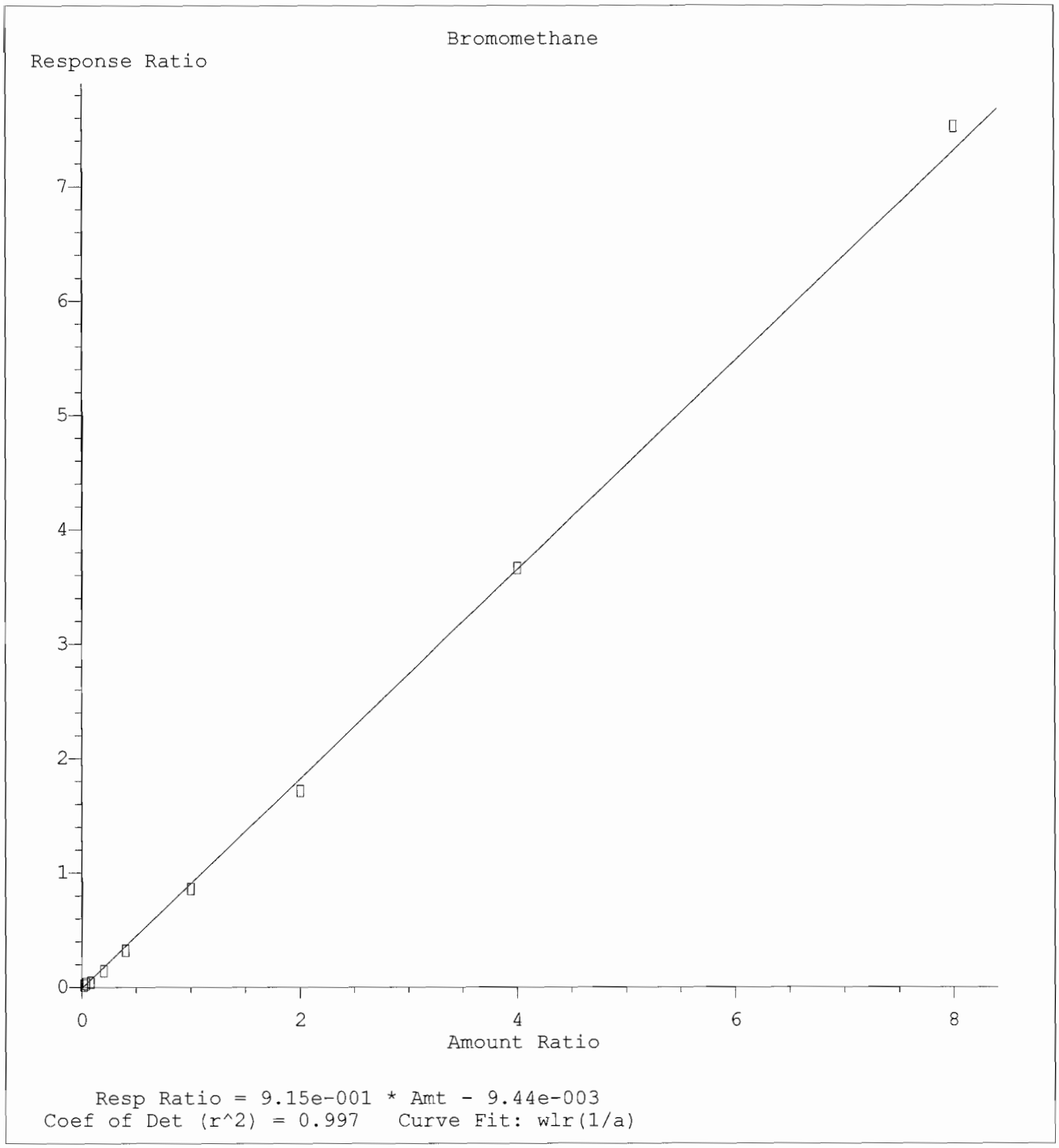
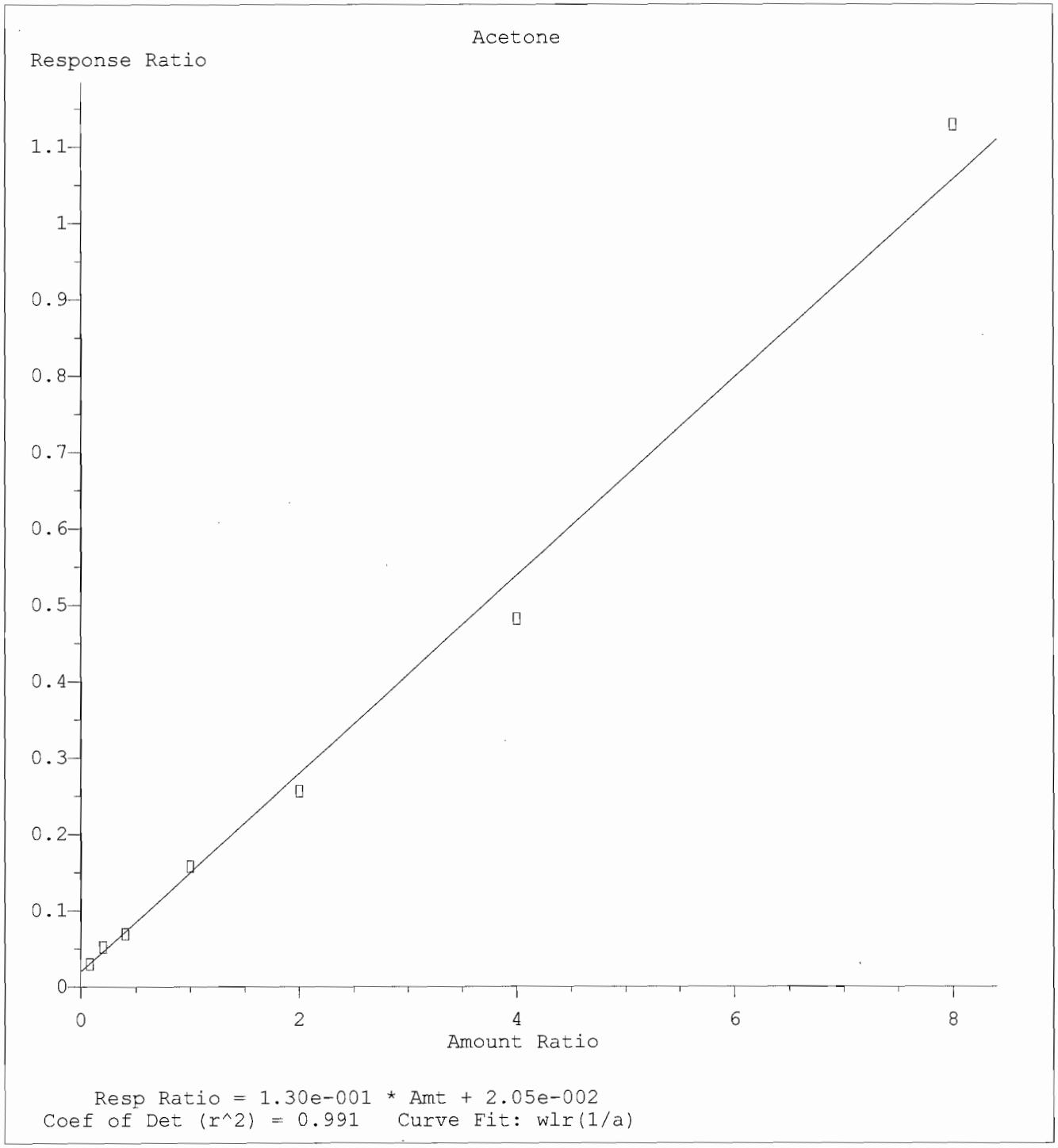


Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

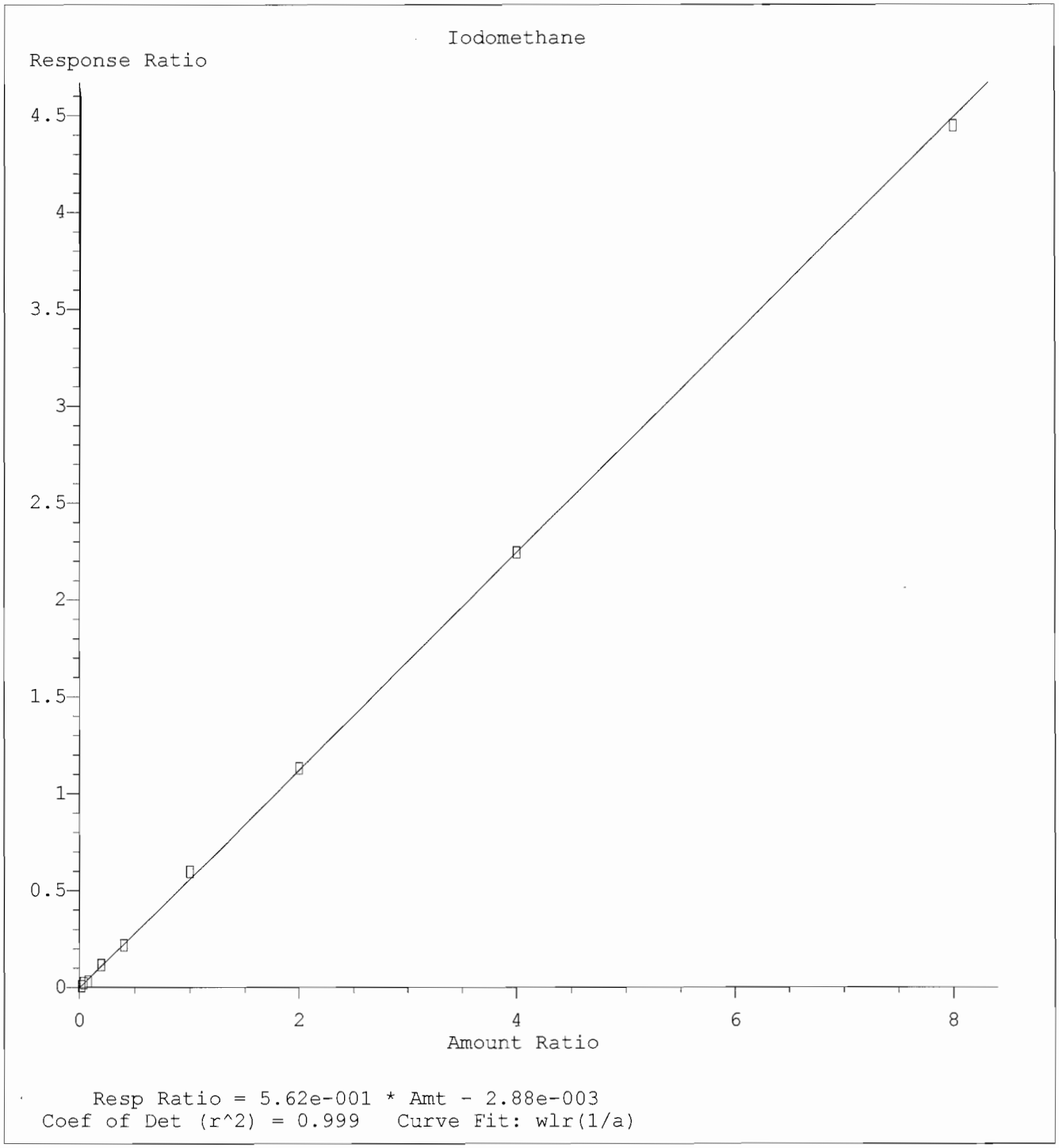
2d 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

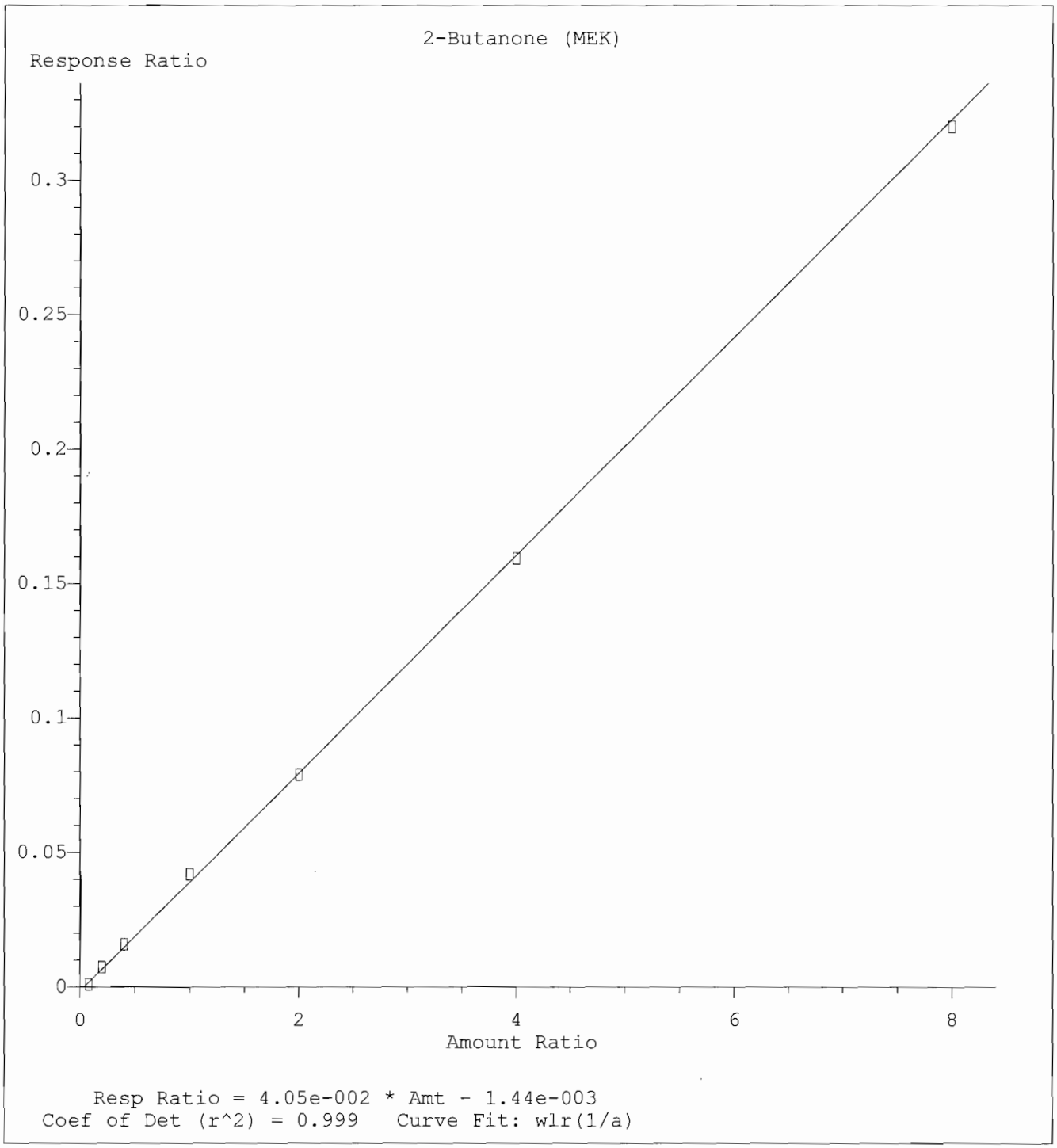
m 4/1/11

LC 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

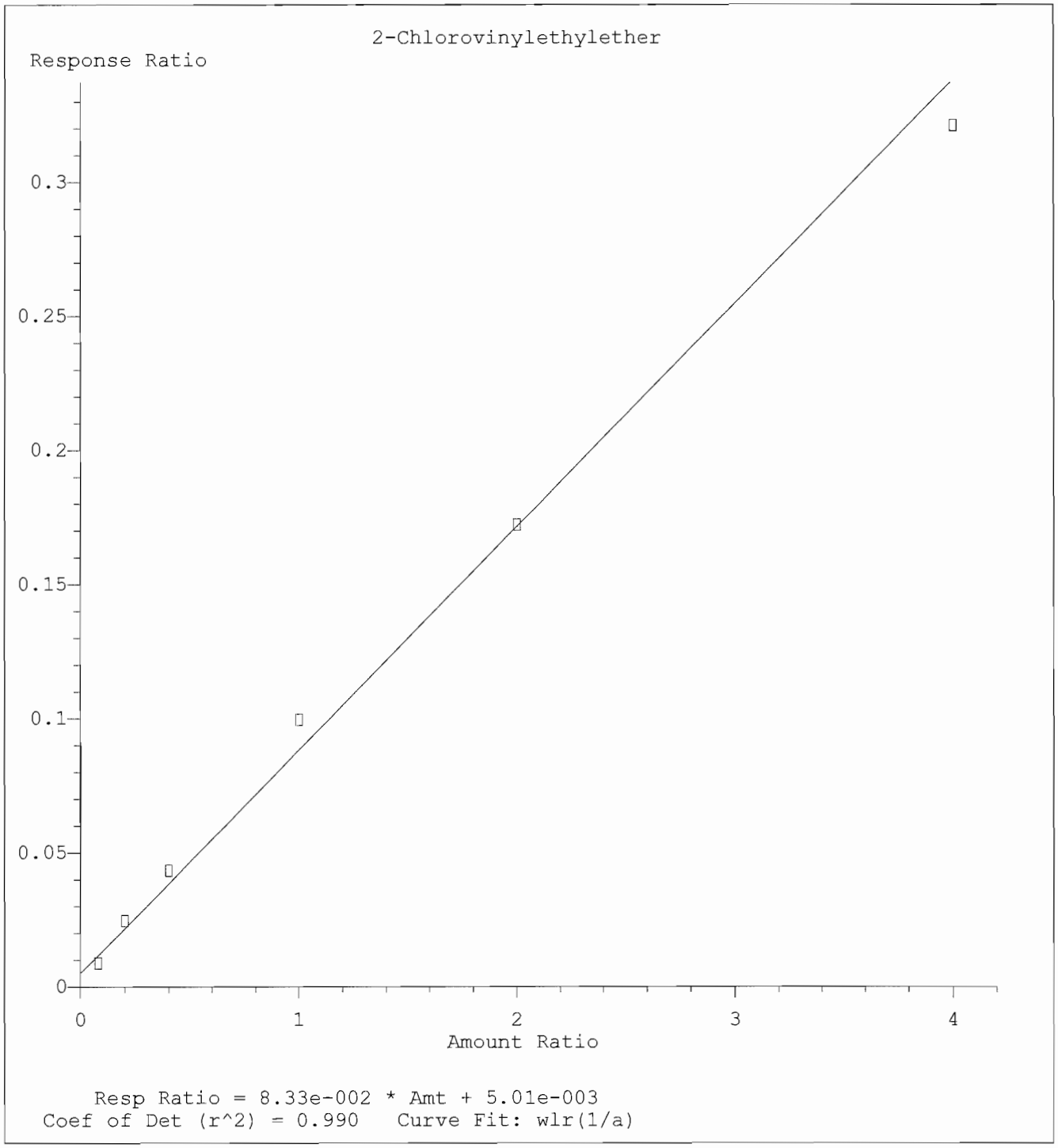
MS 4/1/11
LC 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

m 4/1/29

2C 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

m/z/1/M
LC 03/18/11

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\031711

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03171101.d	1.	TUNE		17 Mar 2011 06:59
2	1	03171102.d	1.	TUNE		17 Mar 2011 07:16
3	16	03171103.d	1.	25 PPB CCV		17 Mar 2011 07:36
4	1	03171104.d	1.	BLANK		17 Mar 2011 08:10
5	2	03171105.d	1.	BLANK		17 Mar 2011 08:41
6	3	03171106.d	1.	0.5 PPB		17 Mar 2011 09:12
7	4	03171107.d	1.	1.0 PPB		17 Mar 2011 09:43
8	5	03171108.d	1.	2.0 PPB		17 Mar 2011 10:14
9	6	03171109.d	1.	5.0 PPB		17 Mar 2011 10:45
10	7	03171110.d	1.	10 PPB		17 Mar 2011 11:15
11	8	03171111.d	1.	25 PPB		17 Mar 2011 11:46
12	9	03171112.d	1.	50 PPB		17 Mar 2011 12:17
13	10	03171113.d	1.	100 PPB		17 Mar 2011 12:48
14	12	03171114.d	1.	200 PPB		17 Mar 2011 13:19
15	13	03171115.d	1.	SS		17 Mar 2011 13:50
16	16	03171116.d	1.	TERTIARY GAS		17 Mar 2011 14:20
17	1	03171117.d	1.	TUNE		17 Mar 2011 14:47
18	1	03171118.d	1.	25 PPB CCV		17 Mar 2011 15:06
19	2	03171119.d	1.	-BS1		17 Mar 2011 15:37
20	3	03171120.d	1.	-BSD1		17 Mar 2011 16:07
21	4	03171121.d	1.	-BLK1		17 Mar 2011 16:38
22	5	03171122.d	1.	PUC1019-01@16:20		17 Mar 2011 17:09
23	6	03171123.d	1.	PUC1019-02@16:22		17 Mar 2011 17:40
24	7	03171124.d	1.	PUC1025-02@16:25		17 Mar 2011 18:10
25	8	03171125.d	1.	PUC1025-01	5X	17 Mar 2011 18:41
26	9	03171126.d	1.	PUC1025-01	1X	17 Mar 2011 19:12
27	13	03171127.d	1.	PUC1025-01DUP1	1X	17 Mar 2011 19:43
28	16	03171128.d	1.	PUC0795-01		17 Mar 2011 20:13
29	1	03171129.d	1.	PUC0795-02		17 Mar 2011 20:44
30	2	03171130.d	1.	PUC0795-03		17 Mar 2011 21:15
31	3	03171131.d	1.	PUC0795-04		17 Mar 2011 21:46
32	4	03171132.d	1.	PUC0795-05		17 Mar 2011 22:17
33	5	03171133.d	1.	PUC0795-06		17 Mar 2011 22:48
34	6	03171134.d	1.	11C0657-MS1		17 Mar 2011 23:19
35	7	03171135.d	1.	11C0657-MSD1		17 Mar 2011 23:50
36	10	03171136.d	1.	BLK		18 Mar 2011 00:21
37	12	03171137.d	1.	BLK		18 Mar 2011 00:51

3/17/11

LC 03/18/11

TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY

Page 1 of 2

DATE: 03/17/11

QC BATCH # (s) : Air 11C0657, H2O 0659

ANALYST: LC

SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\ 031711

CALIBRATION METHOD(S): 031411.M / New Curve -031711.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
/	03171101	Tune	2uL	N/A	8260B	H2O	DNU - Incorred Std.
/	02	↓	↓				
16	03	25 PPB CCV	1x10mL				DNU - Acetone
1	04	Blank					DNU - Clean Out
2	05	↓					
3	06	0.5 PPB					
4	07	1.0					
5	08	2.0					
6	09	5.0					
7	10	10					
8	11	25					
9	12	50					
10	13	100					
12	14	200					
13	15	SS					
16	16	Tertiary Gas	1x10cc			Air	Bromomethane 49%
/	17	Tune	2uL			H2O	
1	18	25 PPB CCV	1x10mL				Acc ↑
2	19	11C0657 -BS1					iodo, CD ↑ 11C0659-BS1
3	20	-BSD1					iodo ↑ BSD1
4	21	-BLK1					BLK
5	22	PUC1079-01A	1x10cc			Air	16:20
6	23	02A					16:22
7	24	1025-02A					16:25
8	25	1025-01A @5x	2cc → 10cc				16:30
9	26	-01A @1x	1x10cc				16:27
13	27	-01 DUP					16:32 11C0657-DUP1
16	28	PUC0795-01A	1x10mL	≤2		H2O	source
1	29	02A		≤2			
2	30	03A		≤2			

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537

CALIBRATION STD: 1525 / PU01528

Internal Std: 1522

IS/Surrogate/BFB: 1534 / PU01261

LOT #: 3° Gas: PT06459

REQUIRED REVIEWS

ARCHON REVIEWED

By / Date: LC 03/17/11

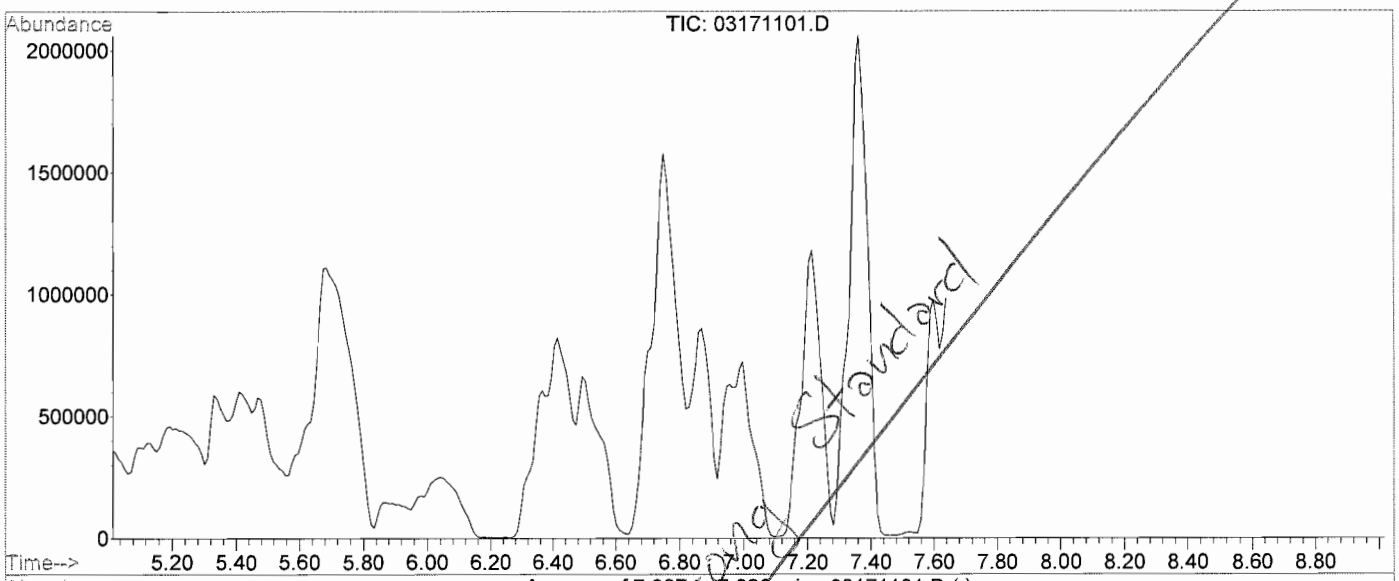
SEQUENCE REVIEWED

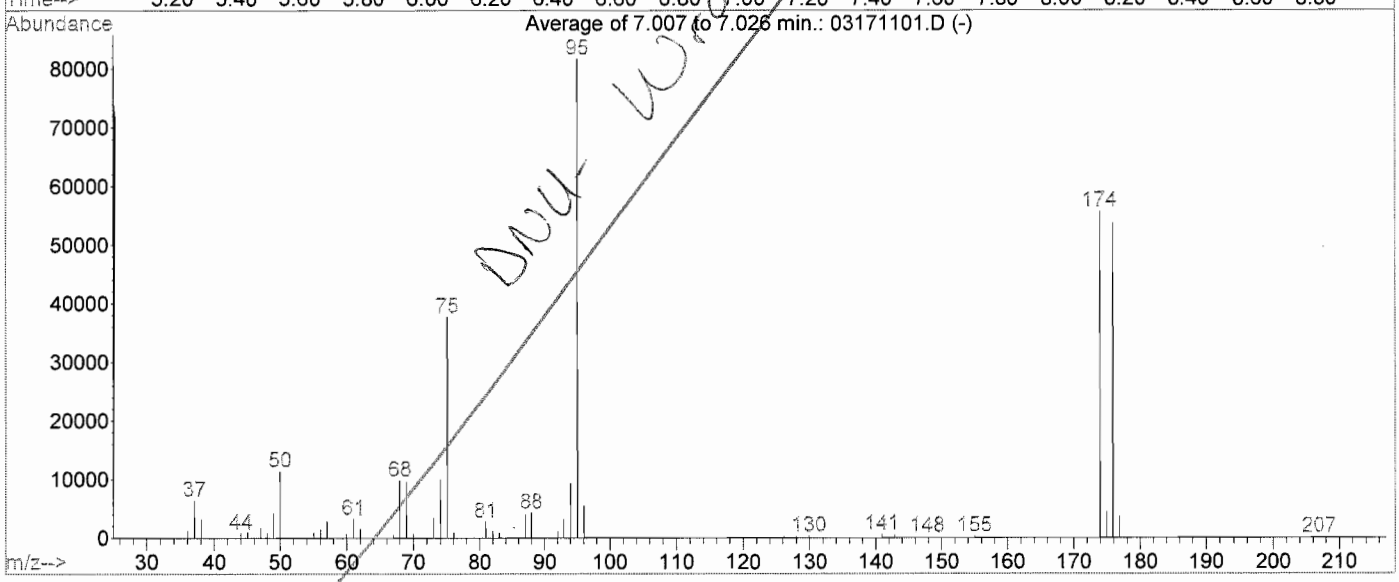
By / Date: LC 03/17/11

FINAL REVIEWER / Date: [signature]

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171101.D Vial: 1
Acq On : 17 Mar 2011 6:59 am Operator: LC
Sample : TUNE Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B





DNU Wrong Standard

Spectrum Information: Average of 7.007 to 7.026 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	13.9	11317	FAIL*
75	95	30	60	46.1	37626	PASS
95	95	100	100	100.0	81675	PASS
96	95	5	9	6.6	5429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.1	55616	PASS
175	174	5	9	7.8	4344	PASS
176	174	95	101	96.5	53661	PASS
177	176	5	9	6.7	3599	PASS

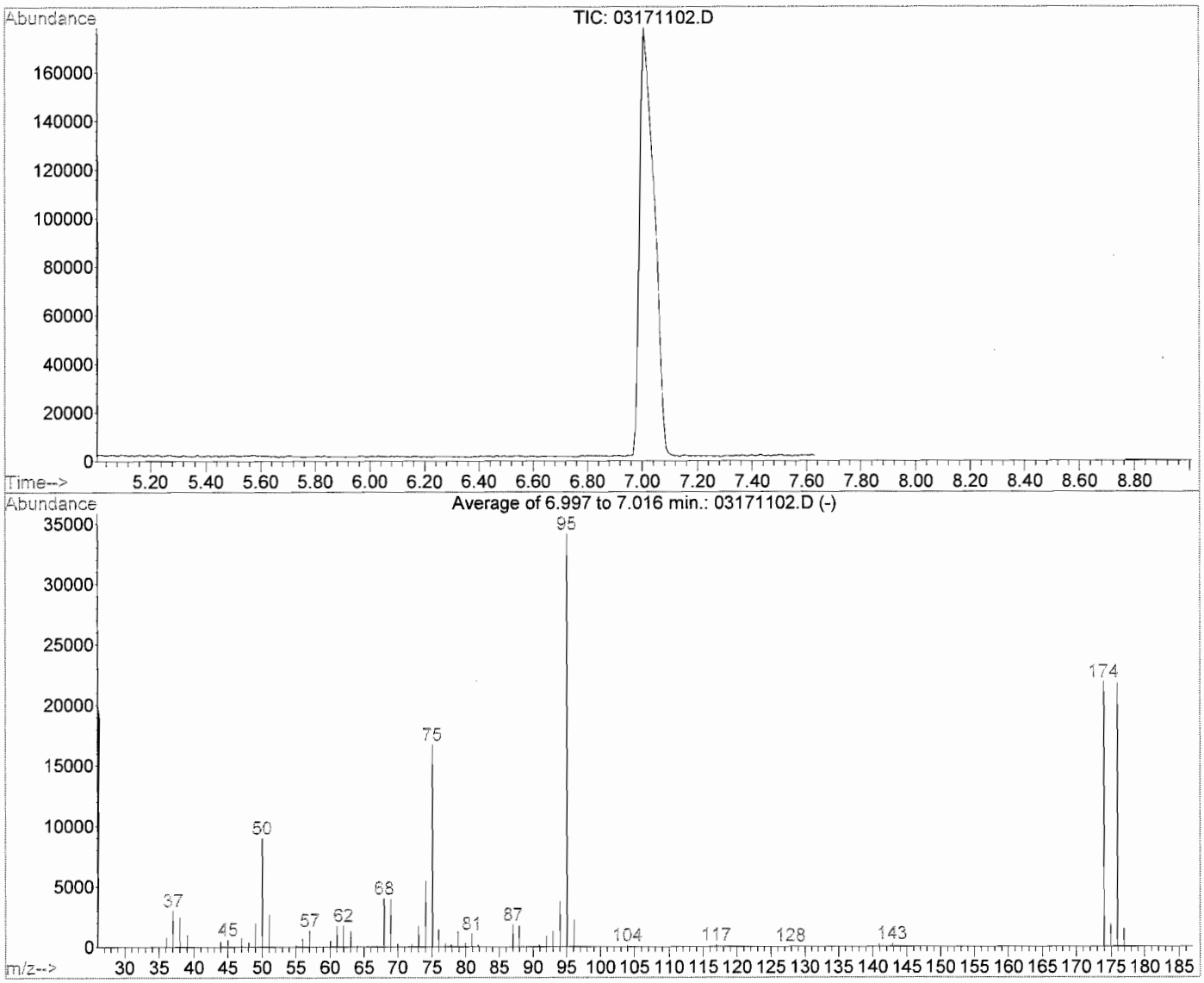
M! 3/18/11

LC 03/18/11

03171101.D 031711.M Thu Mar 17 14:54:14 2011

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171102.D Vial: 1
Acq On : 17 Mar 2011 7:16 am Operator: LC
Sample : TUNE Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B



Spectrum Information: Average of 6.997 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	8966	PASS
75	95	30	60	48.9	16685	PASS
95	95	100	100	100.0	34109	PASS
96	95	5	9	6.4	2195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.1	21869	PASS
175	174	5	9	7.8	1697	PASS
176	174	95	101	99.3	21715	PASS
177	176	5	9	6.7	1463	PASS

LC 03/18/11

03171102.D 031411.M Thu Mar 17 13:54:22 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	183444	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	325784	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	270420	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	118494	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	106054	24.28 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.12%	
39) Toluene-d8	14.11	98	384866	24.78 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.12%	
53) 4-Bromofluorobenzene	17.75	95	134955	24.39 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.56%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	203514	22.97 ug/L	100
3) Chloromethane	4.90	50	349427	27.92 ug/L	100
4) Vinyl chloride	5.19	62	318799	26.09 ug/L	99
5) Bromomethane	5.78	94	141014	26.05 ug/L	96
6) Chloroethane	5.99	64	169039	25.83 ug/L	97
7) Trichlorofluoromethane	6.78	101	229398	25.07 ug/L	99
8) Acetone	6.93	43	87501	Below Cal	97
9) Iodomethane	7.58	142	98773	23.31 ug/L	98
10) 1,1-Dichloroethene	7.52	96	122197	26.18 ug/L	94
11) Methylene chloride	7.71	84	141233	23.11 ug/L	100
12) Freon 113	7.78	101	141514	23.82 ug/L	99
13) Carbon disulfide	8.03	76	424756	25.69 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	133127	23.44 ug/L	97
15) MTBE	8.73	73	229415	23.89 ug/L	98
16) 1,1-Dichloroethane	8.92	63	275296	23.59 ug/L	99
17) Vinyl acetate	9.08	43	220376	24.39 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7147	23.08 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	138298	23.44 ug/L	98
20) Bromochloromethane	9.87	128	51964	23.76 ug/L	97
21) Chloroform	9.93	83	226993	23.52 ug/L	100
22) 2,2-Dichloropropane	10.03	77	199254	24.74 ug/L	99
24) 1,2-Dichloroethane	10.78	62	137605	24.05 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	172734	23.93 ug/L	98
27) 1,1-Dichloropropene	11.15	75	199034	23.87 ug/L	99
28) Carbon tetrachloride	11.39	117	140086	24.16 ug/L	99
29) Benzene	11.44	78	525784	23.82 ug/L	100
30) Dibromomethane	12.17	93	59810	22.72 ug/L	99
31) 1,2-Dichloropropane	12.21	63	147015	23.80 ug/L	100
32) Trichloroethene	12.26	95	130559	23.47 ug/L	100
33) Bromodichloromethane	12.33	83	152627	23.43 ug/L	97
34) 2-Chlorovinylethylether	12.86	63	34857	23.00 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	192256	24.47 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.30	43	79041	22.82 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	148191	24.15 ug/L	98
38) 1,1,2-Trichloroethane	13.95	83	69853	23.20 ug/L	96
40) Toluene	14.21	92	301555	24.42 ug/L	99
42) 1,3-Dichloropropane	14.27	76	144303	23.31 ug/L	100

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

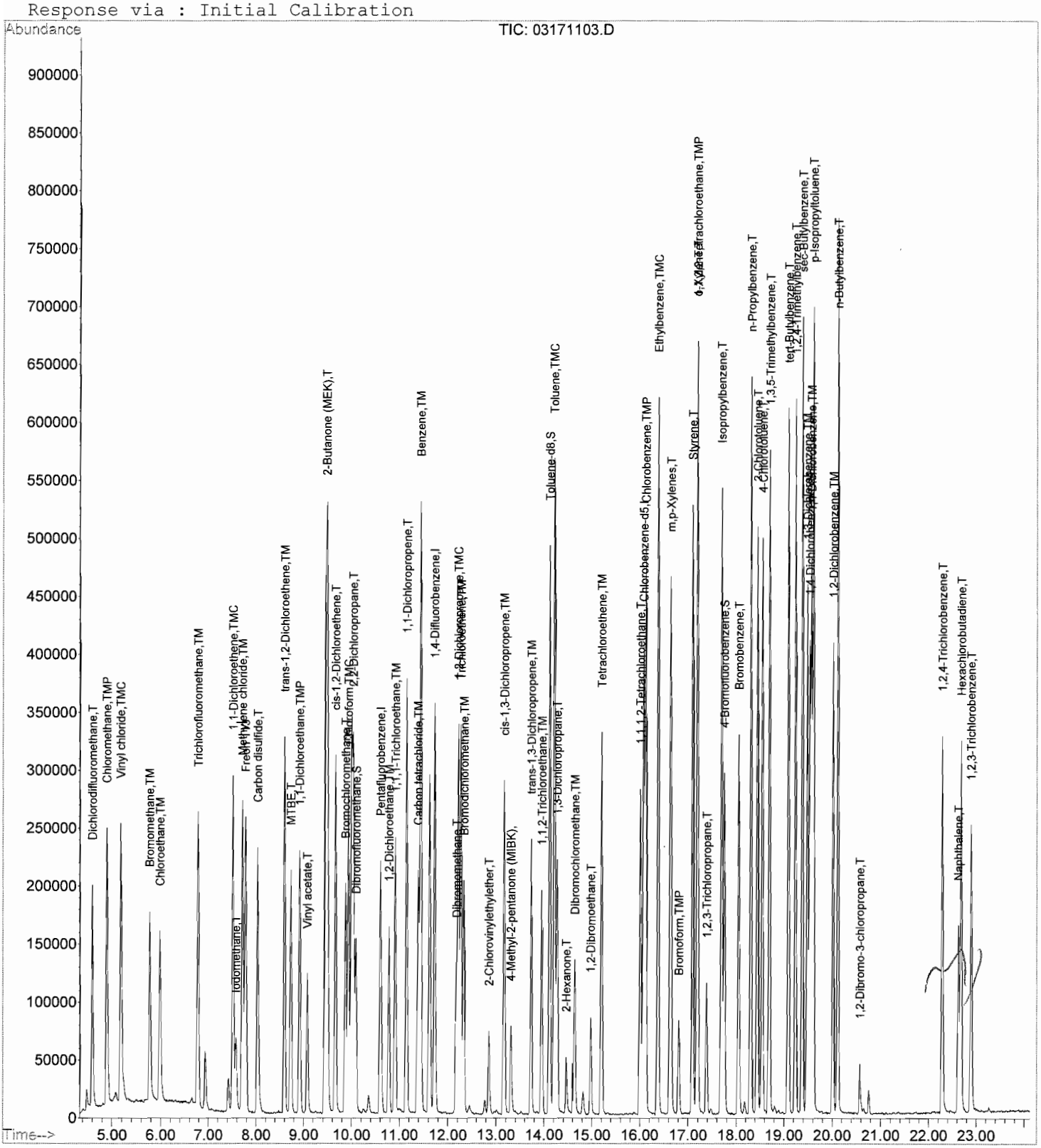
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	52512	24.58 ug/L #	99
44) Dibromochloromethane	14.65	129	85525	24.04 ug/L	98
45) 1,2-Dibromoethane	14.98	107	75677	25.06 ug/L	99
46) Tetrachloroethene	15.20	166	116159	23.97 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	93416	24.16 ug/L	98
48) Chlorobenzene	16.12	112	306146	24.04 ug/L	97
49) Ethylbenzene	16.38	91	563689	24.00 ug/L	99
50) m,p-Xylenes	16.64	106	197842	23.89 ug/L	100
51) Styrene	17.09	104	313010	24.57 ug/L	100
52) o-Xylene	17.19	106	188426	23.54 ug/L	100
55) Bromoform	16.81	173	45375	27.10 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	85826	24.73 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	19634	26.45 ug/L	97
58) Isopropylbenzene	17.70	105	467417	25.22 ug/L	100
59) Bromobenzene	18.05	156	105243	25.16 ug/L	98
60) n-Propylbenzene	18.30	91	657511	25.12 ug/L	100
61) 2-Chlorotoluene	18.44	91	374515	24.85 ug/L	99
62) 4-Chlorotoluene	18.55	91	377509	25.07 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	397648	25.20 ug/L	99
64) tert-Butylbenzene	19.09	119	338640	25.00 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	398096	24.77 ug/L	98
66) sec-Butylbenzene	19.38	105	570587	24.77 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	211237	24.59 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	208652	24.28 ug/L	99
69) p-Isopropyltoluene	19.61	119	450706	25.20 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	179425	24.69 ug/L	99
71) n-Butylbenzene	20.11	91	503050	25.42 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	11007	24.17 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	125573	24.32 ug/L	99
74) Naphthalene	22.62	128	162763	24.75 ug/L	100
75) Hexachlorobutadiene	22.68	225	79503	27.59 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	100849	23.50 ug/L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 8:10 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	208596	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	368454	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	303623	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	134043	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	111829	22.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.04%	
39) Toluene-d8	14.11	98	400008	22.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.08%	
53) 4-Bromofluorobenzene	17.75	95	138919	22.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 89.44%	

Target Compounds					Qvalue
8) Acetone	6.94	43	4324	1.42 ug/L #	65
10) 1,1-Dichloroethene	7.51	96	60	Below Cal #	73
13) Carbon disulfide	8.03	76	742	Below Cal	100
24) 1,2-Dichloroethane	10.60	62	1046	0.16 ug/L #	1
36) 4-Methyl-2-pentanone (MIBK	13.01	43	7775	1.98 ug/L #	50
38) 1,1,2-Trichloroethane	14.12	83	373	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.11	76	4467	0.64 ug/L #	68
73) 1,2,4-Trichlorobenzene	22.29	180	1153	0.20 ug/L	97
74) Naphthalene	22.63	128	8429	1.13 ug/L	100
76) 1,2,3-Trichlorobenzene	22.91	180	1057	0.22 ug/L	93

DNK Clean Out

m 3/11/11

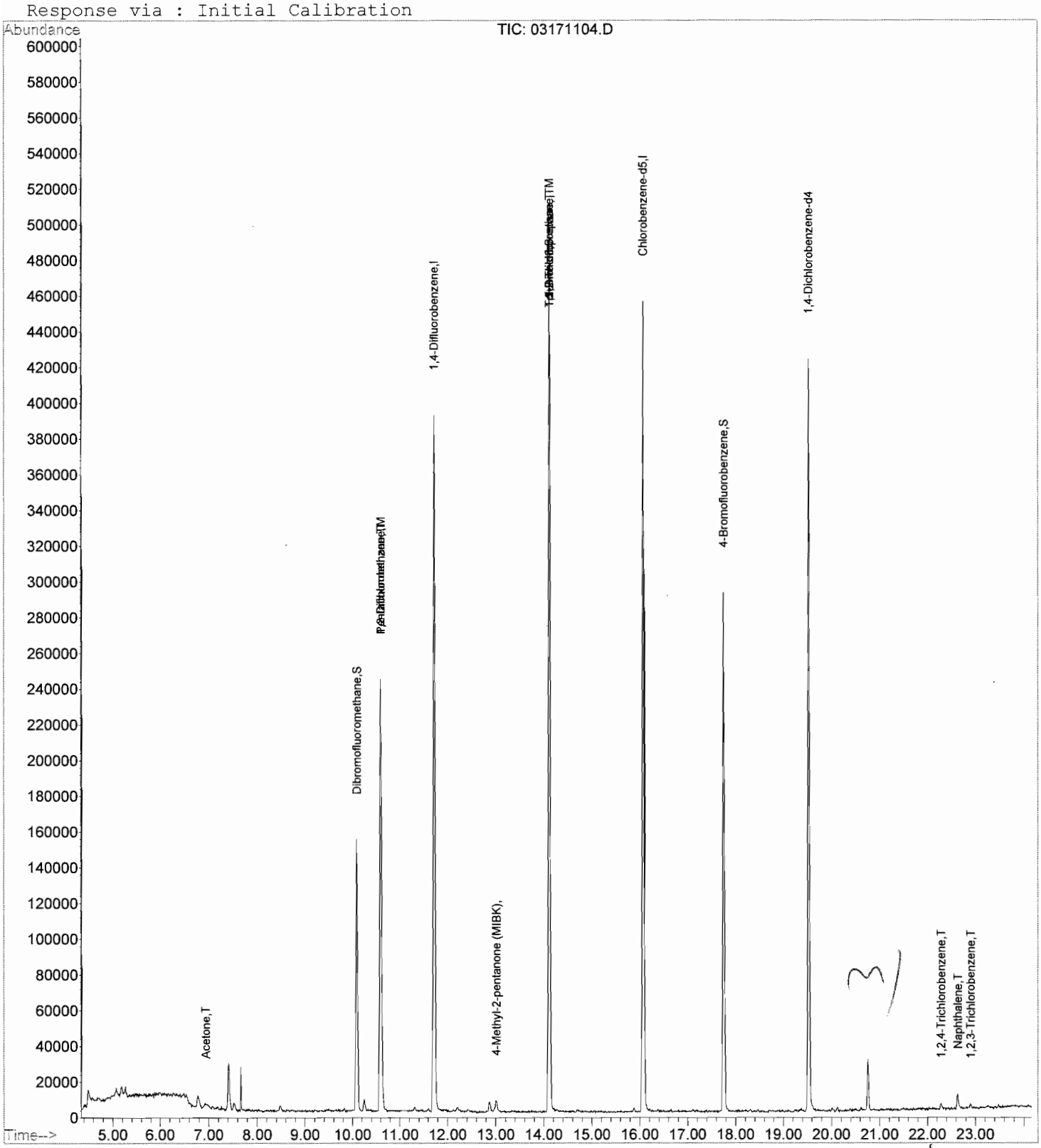
LC 03/18/11

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 8:10 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	24.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.00%	
39) Toluene-d8	14.11	98	374753	22.97 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.88%	
53) 4-Bromofluorobenzene	17.75	95	131653	22.85 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.40%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.14 ug/L LRL	98
8) Acetone	6.93	43	3328	0.96 ug/L #	69
10) 1,1-Dichloroethene	7.53	96	127	Below Cal #	1
13) Carbon disulfide	8.02	76	5282	Below Cal	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	82
24) 1,2-Dichloroethane	10.60	62	1206	0.20 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.60 ug/L #WRT	70
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	32
74) Naphthalene	22.63	128	1667	0.23 ug/L	100

m 4/19/11

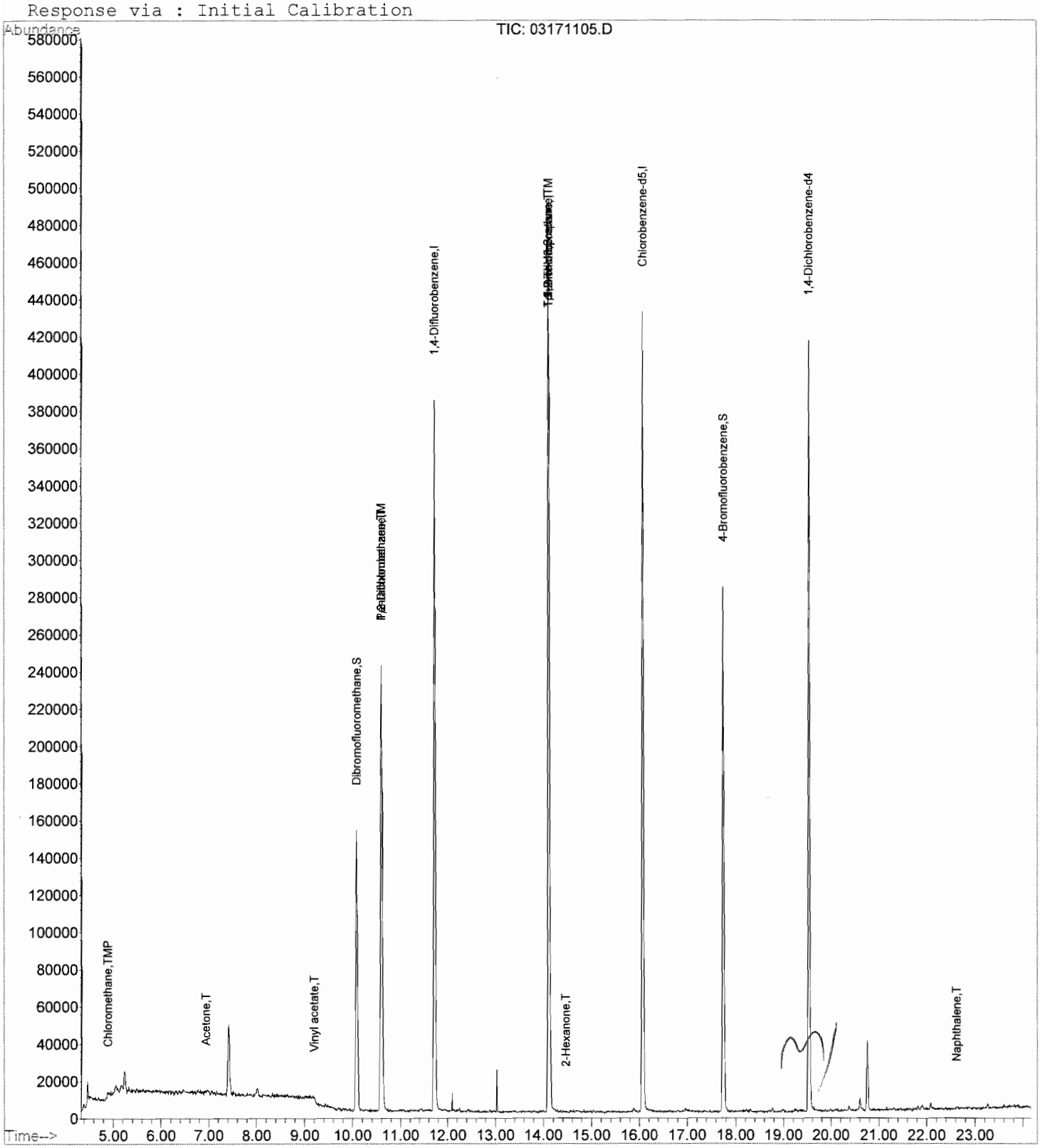
LC 03/18/11

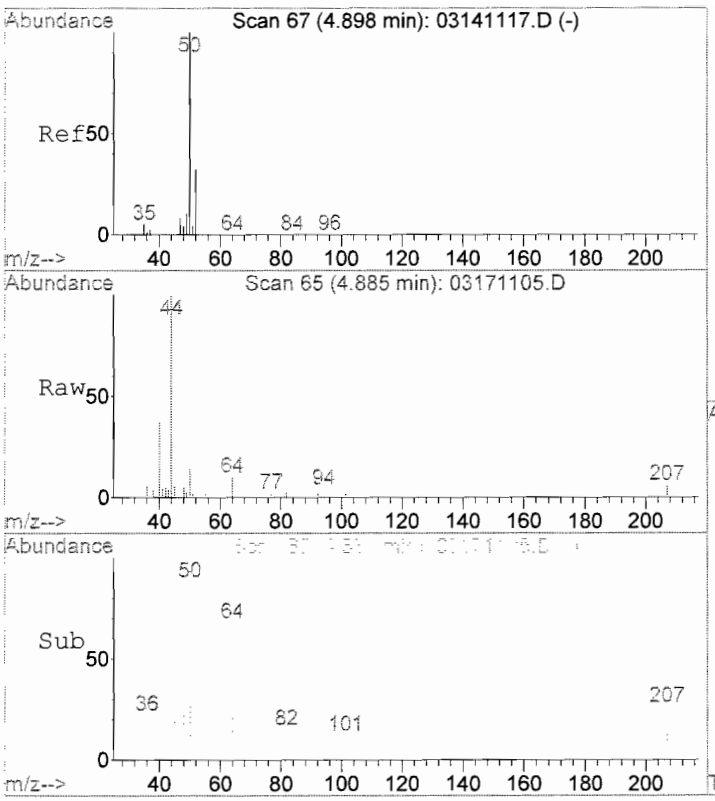
(#) = qualifier out of range (m) = manual integration
03171105.D 031411.M Thu Mar 17 13:54:55 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration

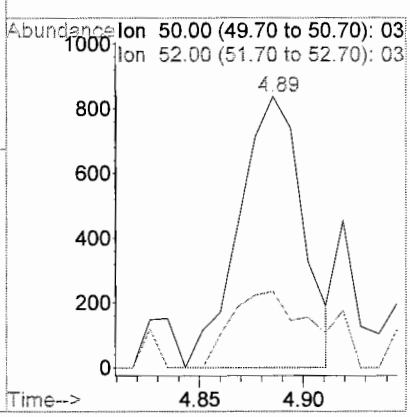


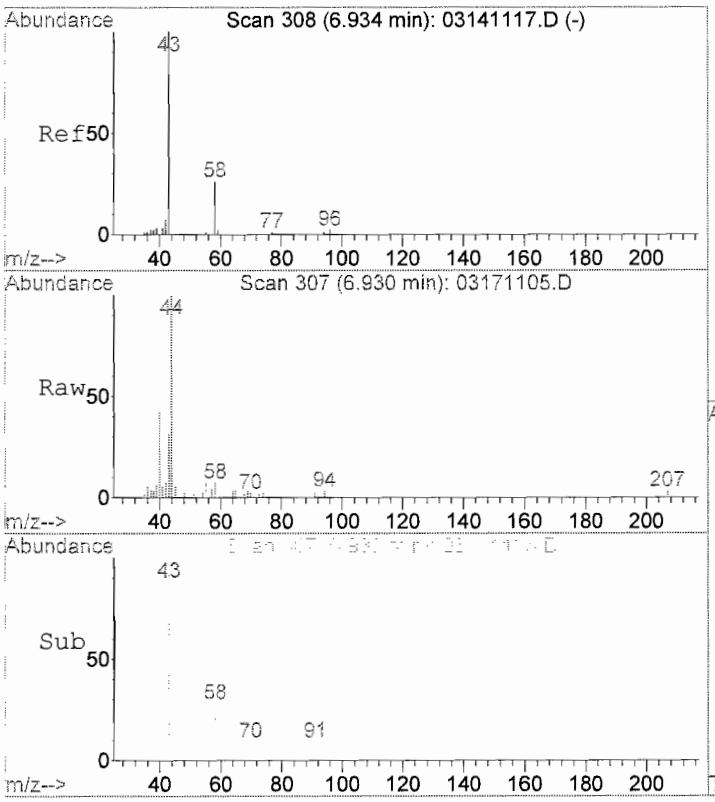


#3
Chloromethane
Concen: 0.14 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.4	38.2

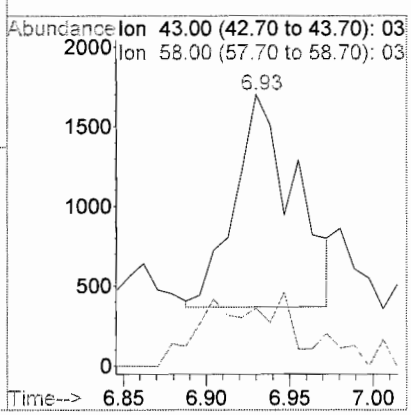


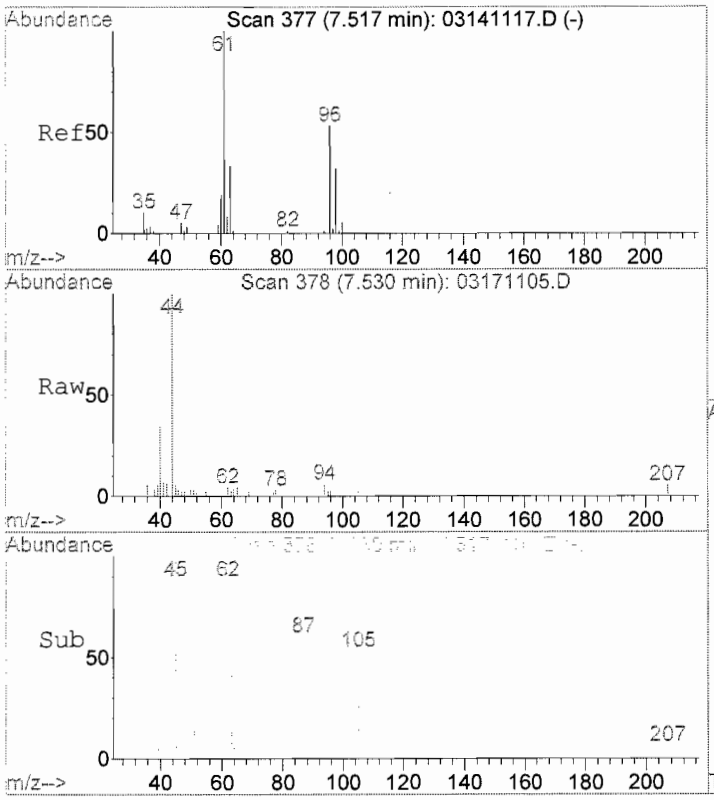


#8
Acetone
Concen: 0.96 ug/L
RT: 6.93 min Scan# 307
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

Ion	Ratio	Lower	Upper
43	100		
58	9.7	20.4	30.6#

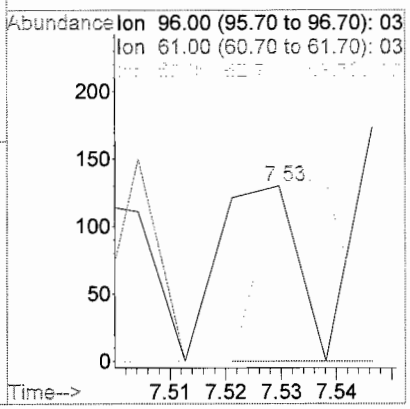


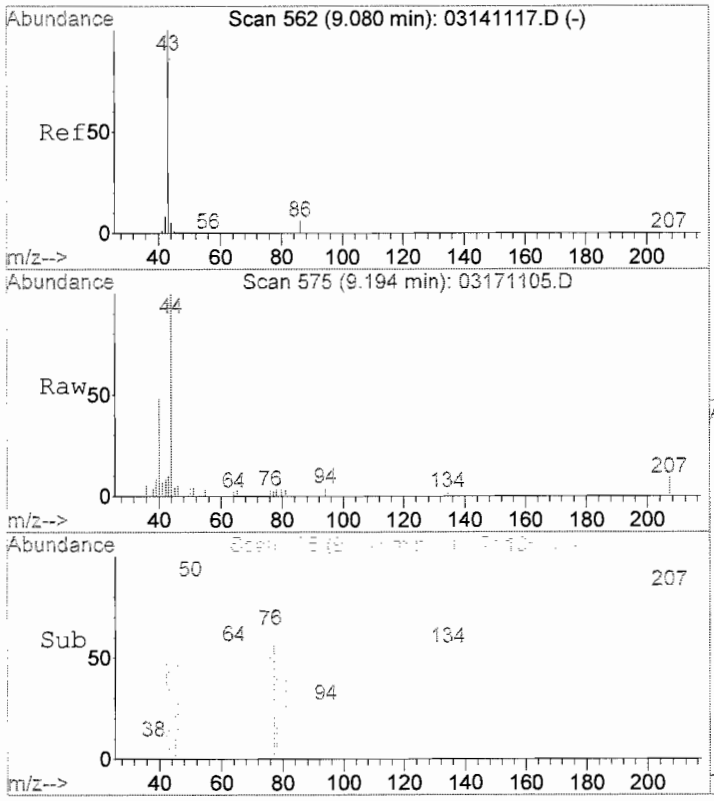


#10
1,1-Dichloroethene
Concen: Below Cal
RT: 7.53 min Scan# 378
Delta R.T. 0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 96 Resp: 127

Ion	Ratio	Lower	Upper
96	100		
61	0.0	164.0	246.0#
63	107.1	51.4	77.0#

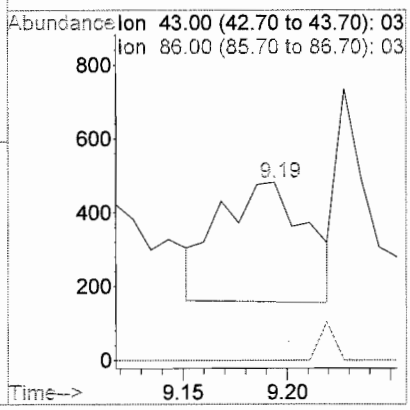


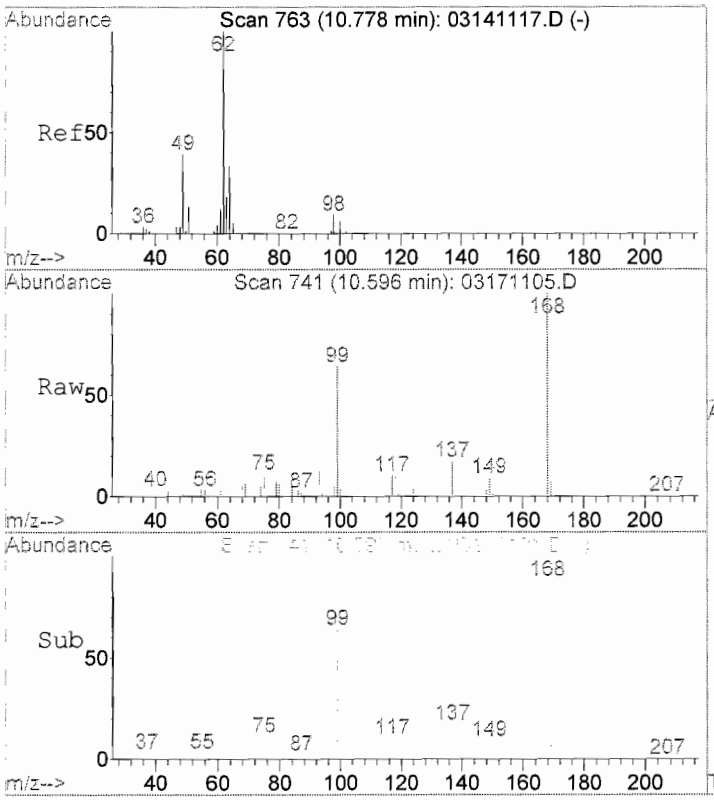


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.7	7.1#

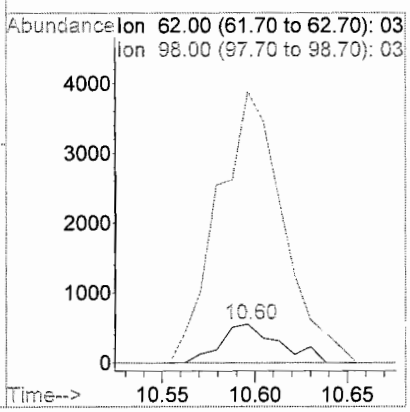


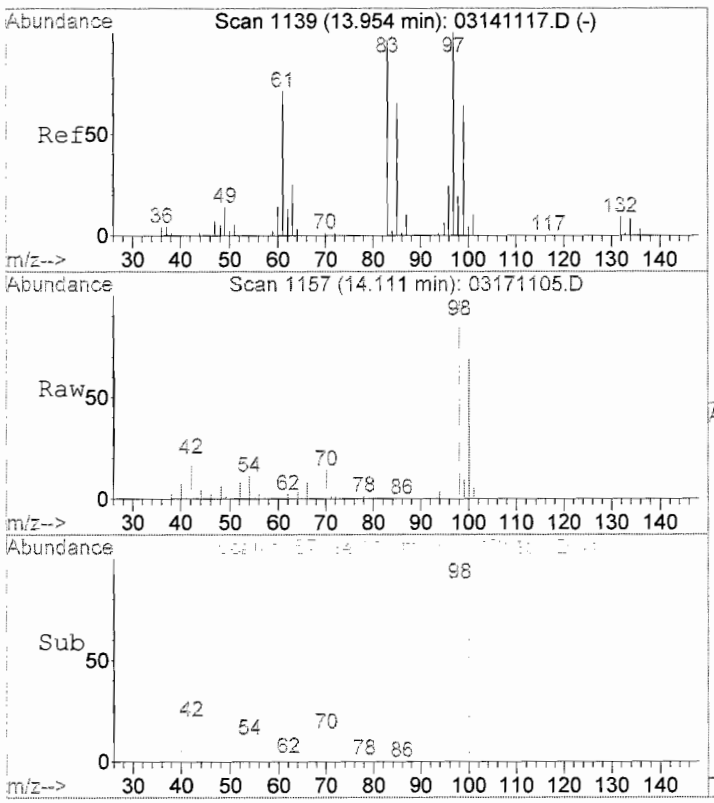


#24
1,2-Dichloroethane
Concen: 0.20 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.18 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	6.8	10.2#

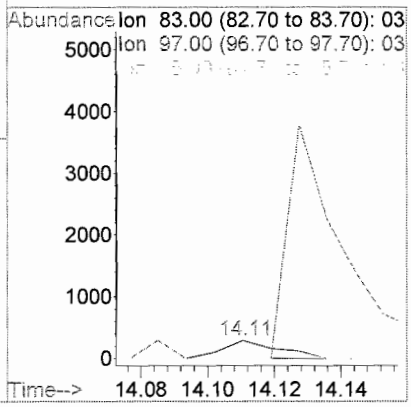


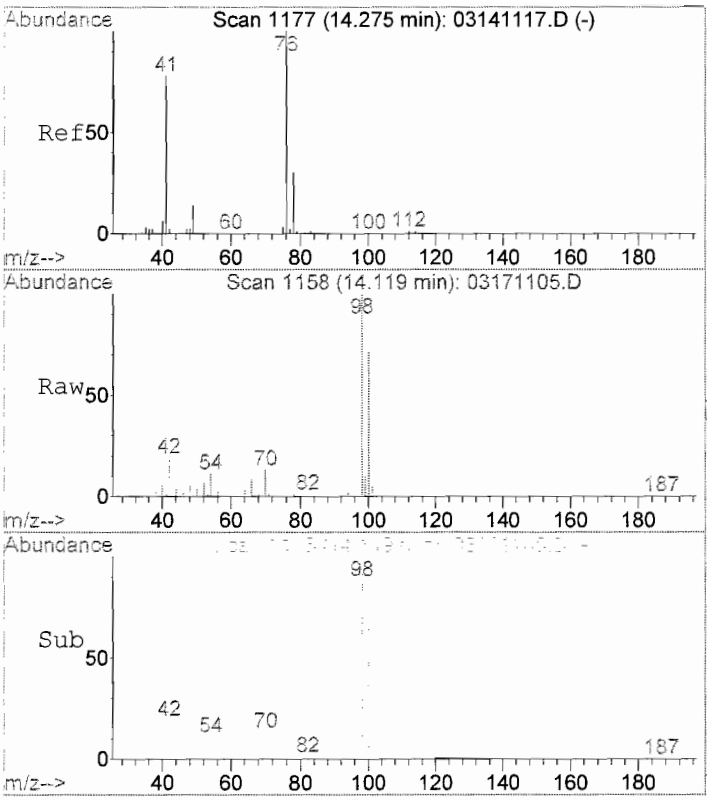


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	80.6	120.8#
85	0.0	51.4	77.0#



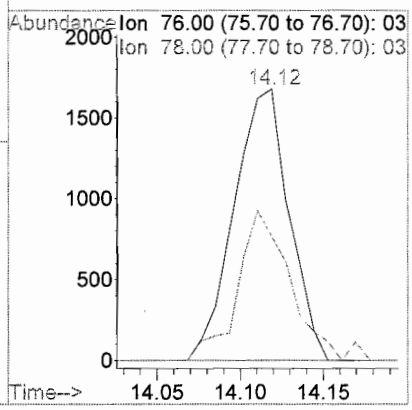


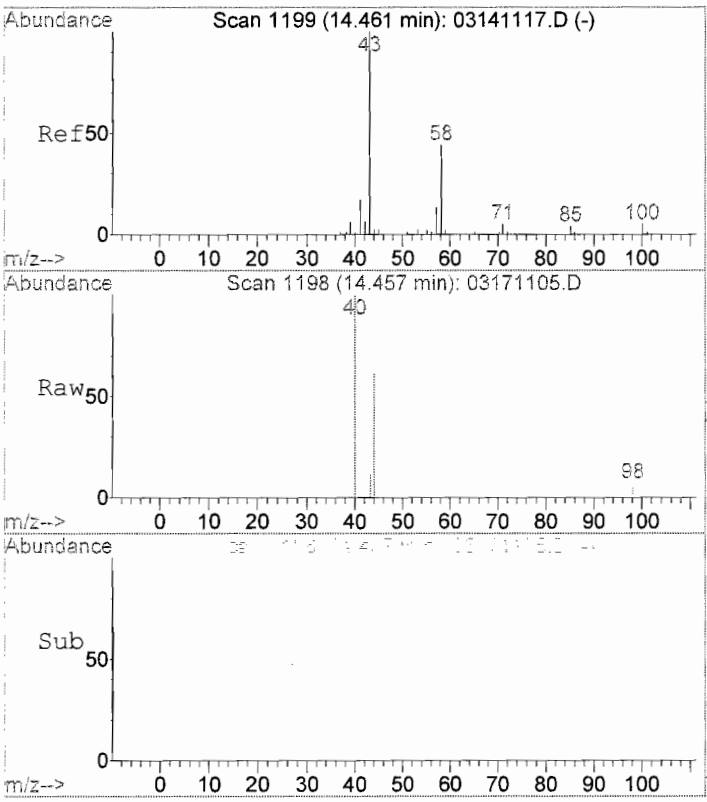
#42
1,3-Dichloropropane
Concen: 0.60 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	25.5	38.3#

WRT

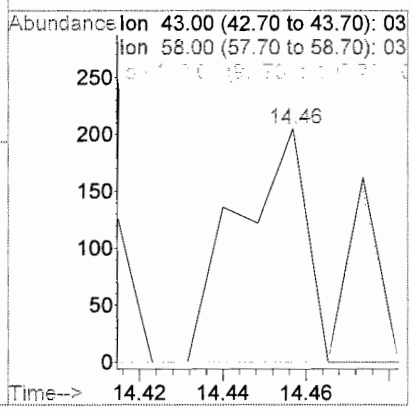




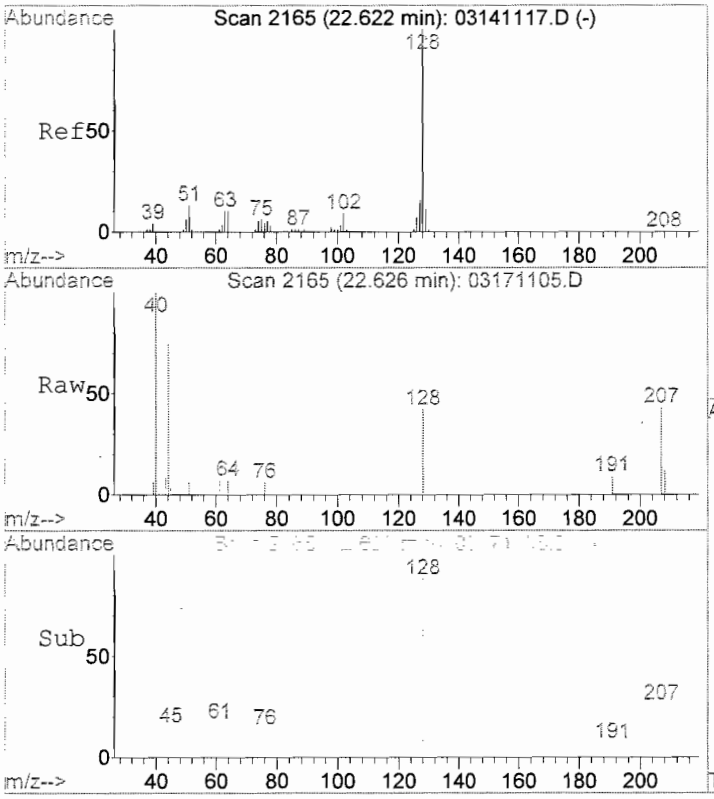
#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 235

Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.8	52.2#
100	0.0	0.0	0.0

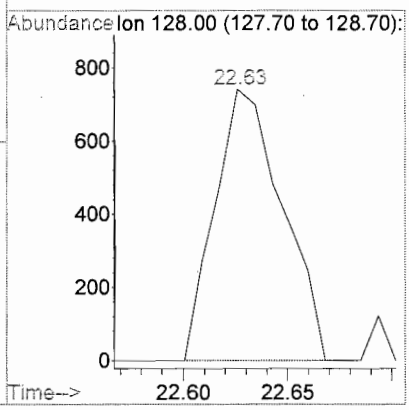


MJ LC



#74
Naphthalene
Concen: 0.23 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

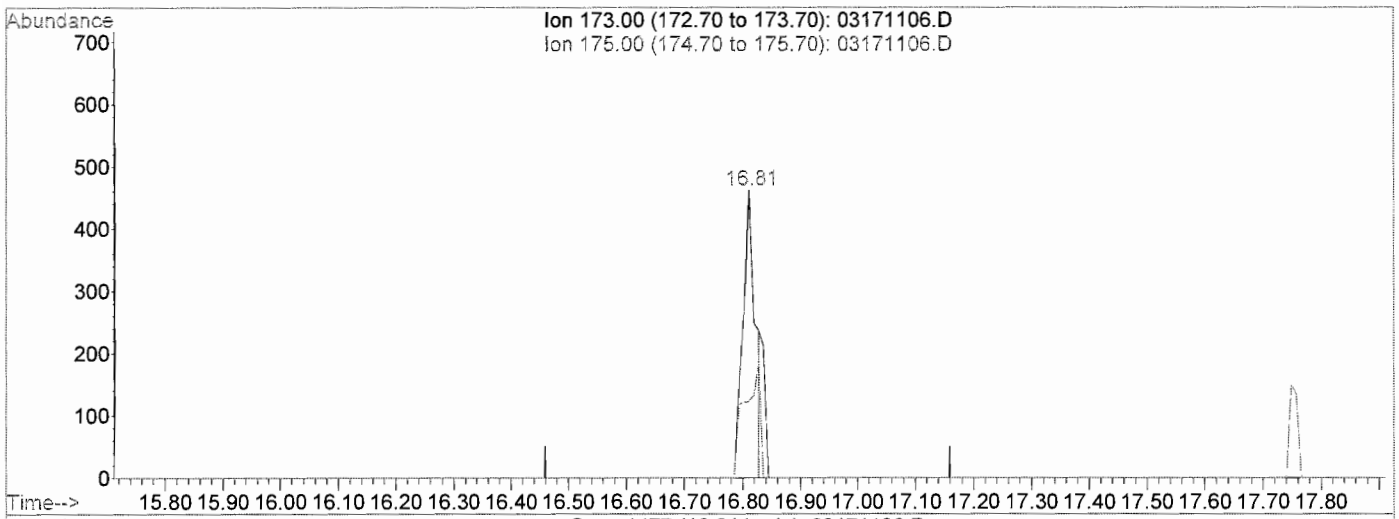
Tgt Ion:128 Resp: 1667

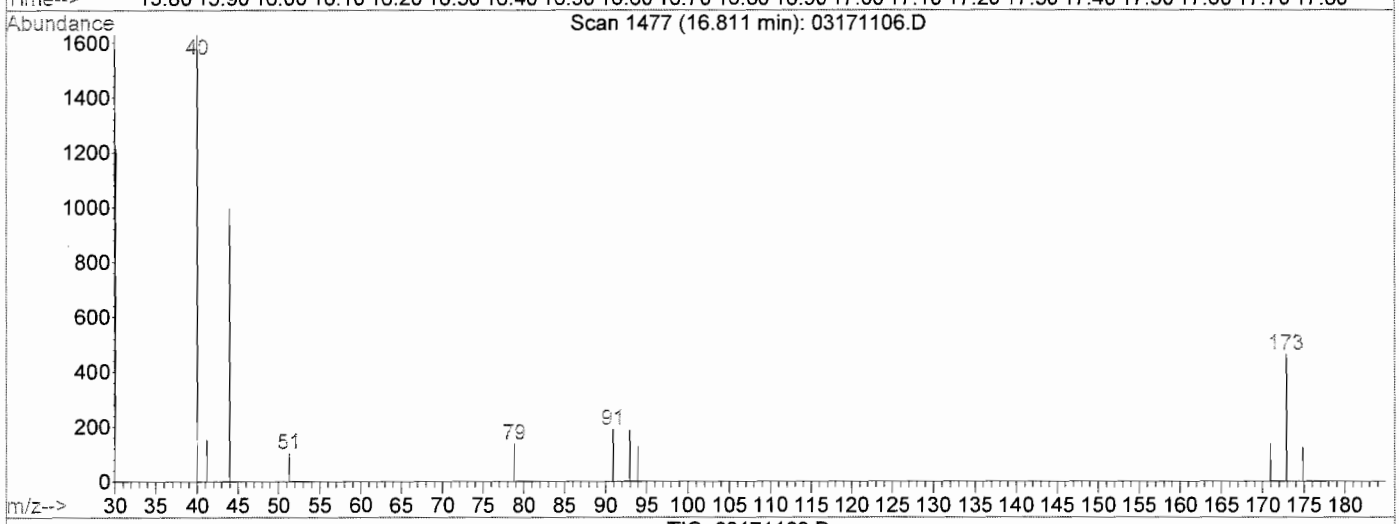


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:55 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171106.D

(55) Bromoform (TMP)

16.81min 0.42ug/L

response 696

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	23.13#
0.00	0.00	0.00
0.00	0.00	0.00

Before - SP

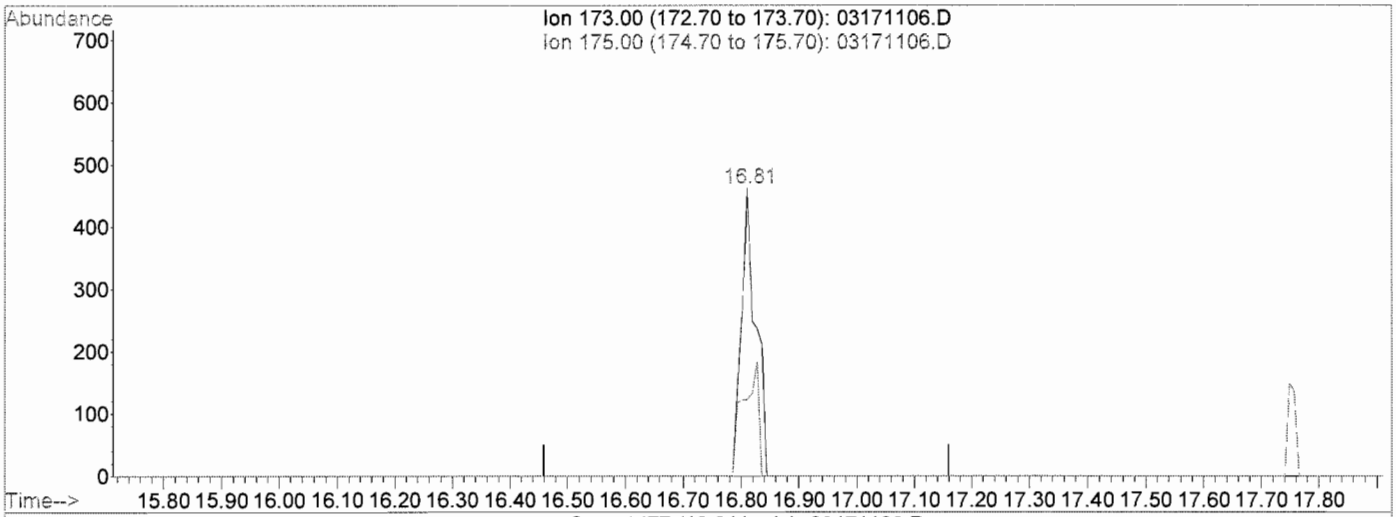
4/1/11

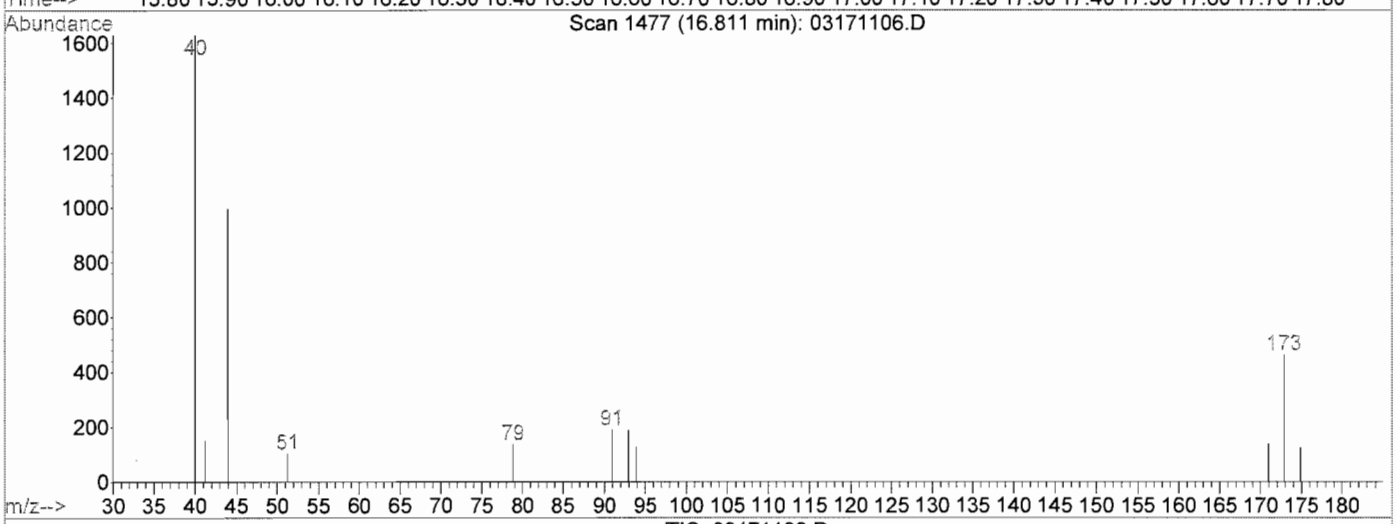
LC 03/18/11

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171106.D

(55) Bromoform (TMP)

16.81min 0.49ug/L m

response 803

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	20.05#
0.00	0.00	0.00
0.00	0.00	0.00

After

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.48%	
39) Toluene-d8	14.12	98	8971	0.63 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.52%	
53) 4-Bromofluorobenzene	17.76	95	3244	0.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.60%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.53 ug/L	92
3) Chloromethane	4.89	50	6587	0.58 ug/L	96
4) Vinyl chloride	5.18	62	6003	0.54 ug/L	90
5) Bromomethane	5.78	94	3084	0.62 ug/L	90
6) Chloroethane	5.97	64	3371	0.56 ug/L #	75
7) Trichlorofluoromethane	6.77	101	4364	0.52 ug/L	93
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.58	142	1272	0.33 ug/L	95
10) 1,1-Dichloroethene	7.50	96	2883	0.40 ug/L	91
11) Methylene chloride	7.70	84	3890	0.70 ug/L	95
12) Freon 113	7.77	101	3509	0.65 ug/L	93
13) Carbon disulfide	8.02	76	10027	0.34 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	91
15) MTBE	8.73	73	5033	0.57 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.56 ug/L	97
17) Vinyl acetate	9.08	43	4816	0.58 ug/L #	82
18) 2-Butanone (MEK)	9.46	72	199	0.70 ug/L #	33
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	89
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	90
21) Chloroform	9.93	83	4941	0.56 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.52 ug/L	98
24) 1,2-Dichloroethane	10.77	62	2927	0.56 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.50 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	96
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.55 ug/L	100
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	86
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L	99
32) Trichloroethene	12.27	95	2709	0.53 ug/L	97
33) Bromodichloromethane	12.33	83	3018	0.51 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	0.56 ug/L #	56
35) cis-1,3-Dichloropropene	13.18	75	3500	0.49 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	0.00	43	0	N.D. d	
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.50 ug/L #	82
40) Toluene	14.21	92	6374	0.56 ug/L	98
42) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	98

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

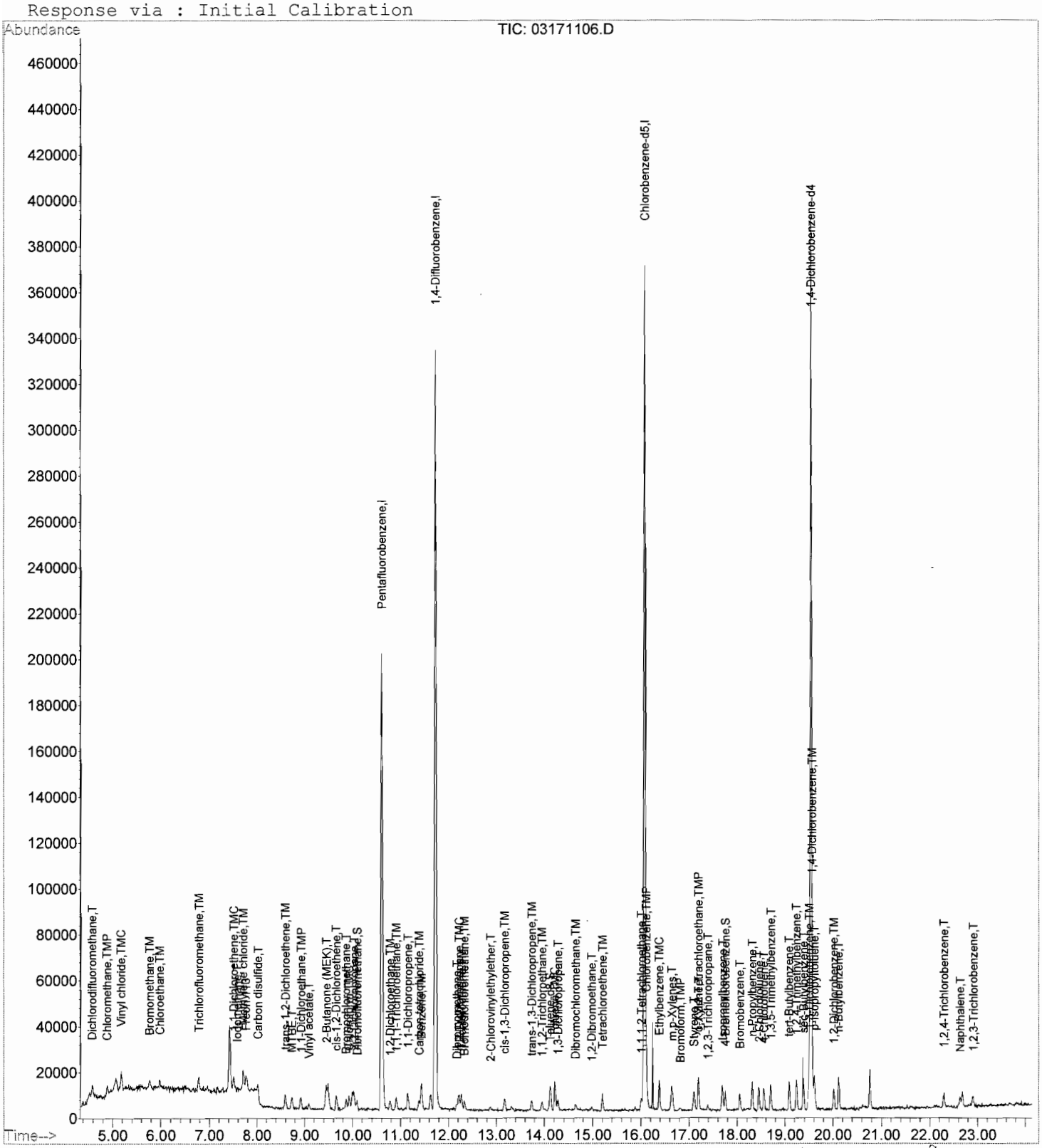
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	0.00	43	0	N.D. d		
44)	Dibromochloromethane	14.65	129	2052	0.64 ug/L		84
45)	1,2-Dibromoethane	14.98	107	1293	0.48 ug/L	#	76
46)	Tetrachloroethene	15.21	166	2392	0.55 ug/L		97
47)	1,1,1,2-Tetrachloroethane	16.02	131	2040	0.59 ug/L	#	56
48)	Chlorobenzene	16.12	112	6227	0.54 ug/L		97
49)	Ethylbenzene	16.38	91	11848	0.56 ug/L		94
50)	m,p-Xylenes	16.64	106	4453	0.60 ug/L		94
51)	Styrene	17.10	104	5086	0.44 ug/L	#	77
52)	o-Xylene	17.20	106	4214	0.58 ug/L		99
55)	Bromoform	16.81	173	803m	0.49 ug/L		
56)	1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L	#	96
57)	1,2,3-Trichloropropane	17.38	110	276	0.38 ug/L	#	59
58)	Isopropylbenzene	17.70	105	9284	0.51 ug/L		98
59)	Bromobenzene	18.05	156	1904	0.47 ug/L		85
60)	n-Propylbenzene	18.31	91	13033	0.51 ug/L		96
61)	2-Chlorotoluene	18.45	91	8427	0.57 ug/L		93
62)	4-Chlorotoluene	18.56	91	8009	0.54 ug/L		99
63)	1,3,5-Trimethylbenzene	18.70	105	8073	0.52 ug/L		98
64)	tert-Butylbenzene	19.09	119	6647	0.50 ug/L		97
65)	1,2,4-Trimethylbenzene	19.24	105	7949	0.51 ug/L		99
66)	sec-Butylbenzene	19.38	105	11380	0.51 ug/L		100
67)	1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L		94
68)	1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L	#	87
69)	p-Isopropyltoluene	19.61	119	8395	0.48 ug/L		94
70)	1,2-Dichlorobenzene	20.02	146	3885	0.55 ug/L		97
71)	n-Butylbenzene	20.11	91	9466	0.49 ug/L		99
72)	1,2-Dibromo-3-chloropropan	0.00	157	0	N.D. d		
73)	1,2,4-Trichlorobenzene	22.29	180	2133	0.42 ug/L		81
74)	Naphthalene	22.63	128	4307	0.67 ug/L		100
75)	Hexachlorobutadiene	22.69	225	1446	Below Cal	#	66
76)	1,2,3-Trichlorobenzene	22.90	180	1936	0.46 ug/L		87

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

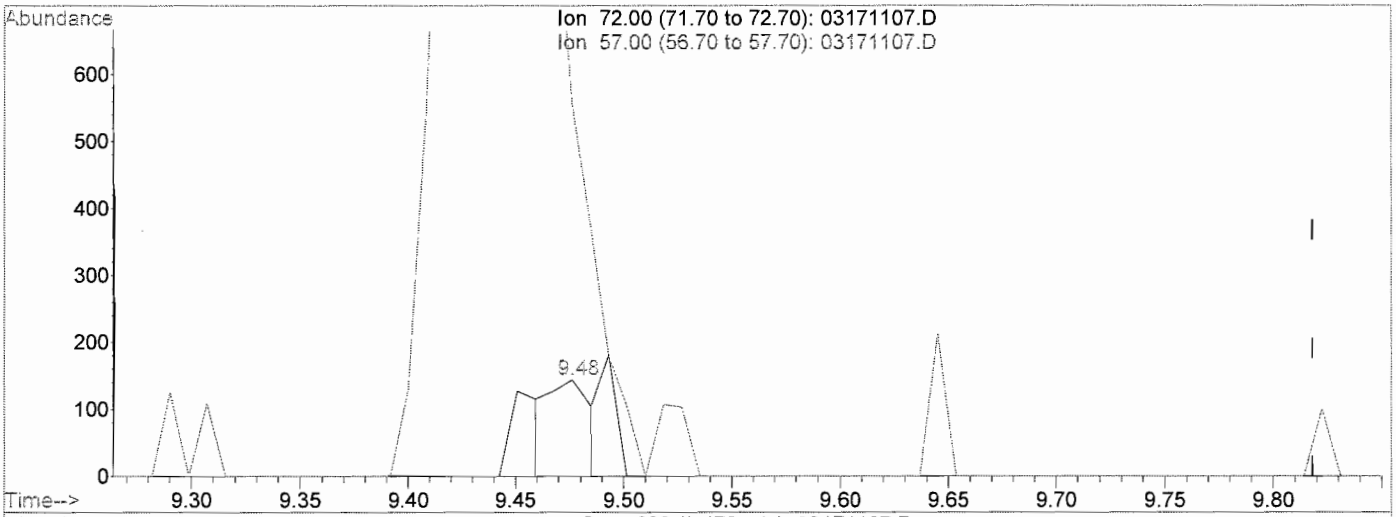
Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration

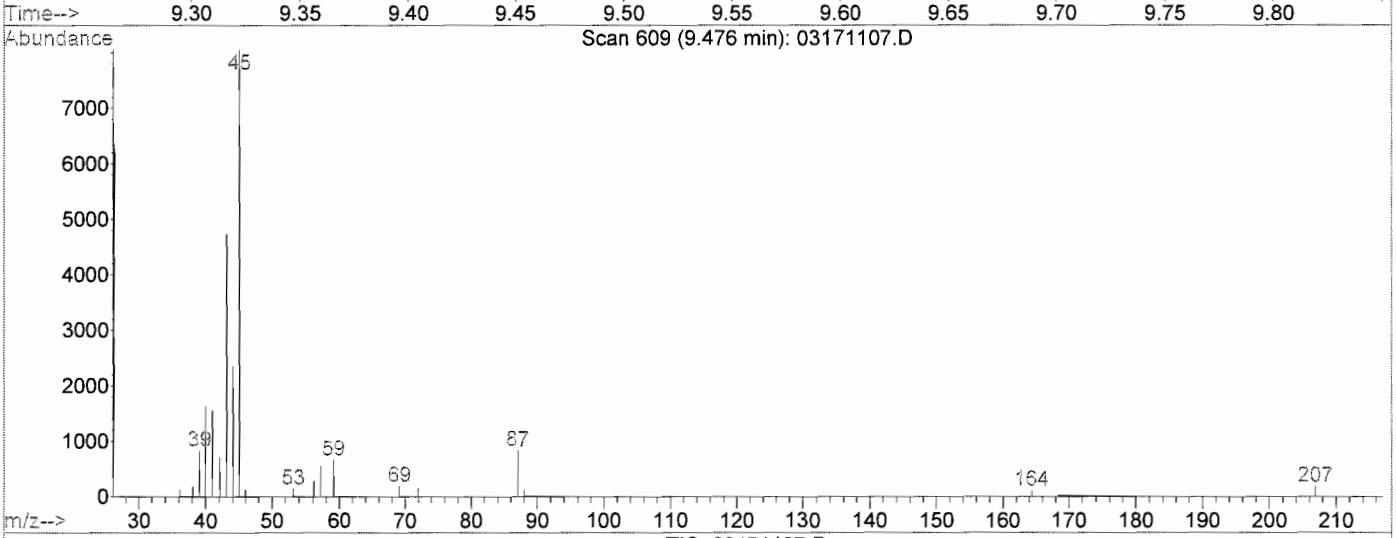


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171107.D

(18) 2-Butanone (MEK) (T)

9.48min 0.69ug/L

response 190

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Before - NIP

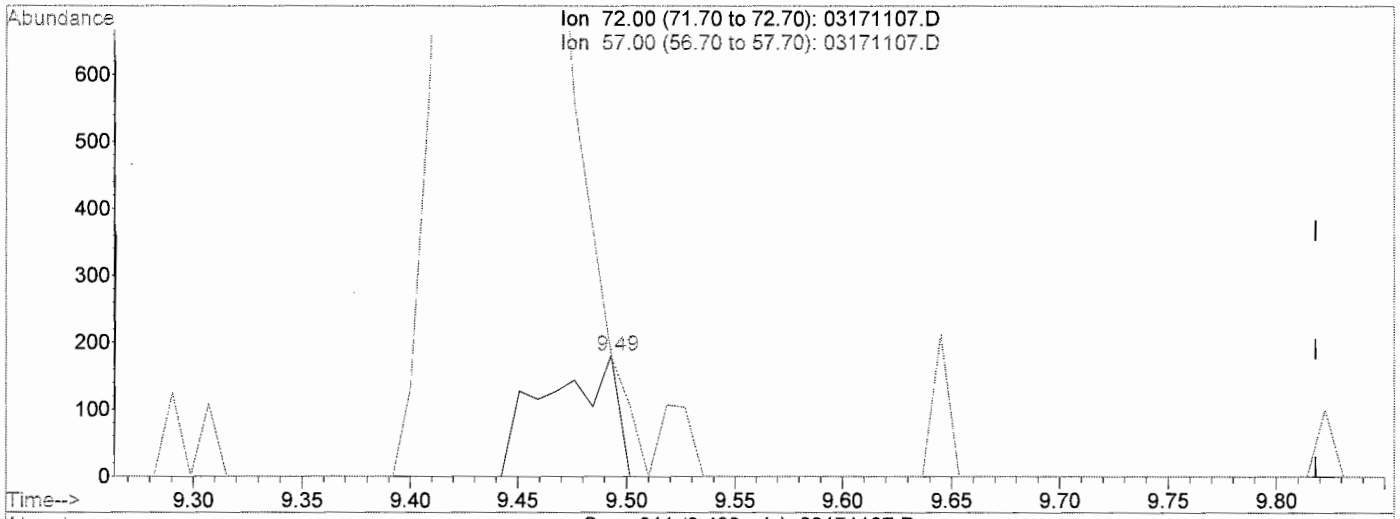
03/18/11

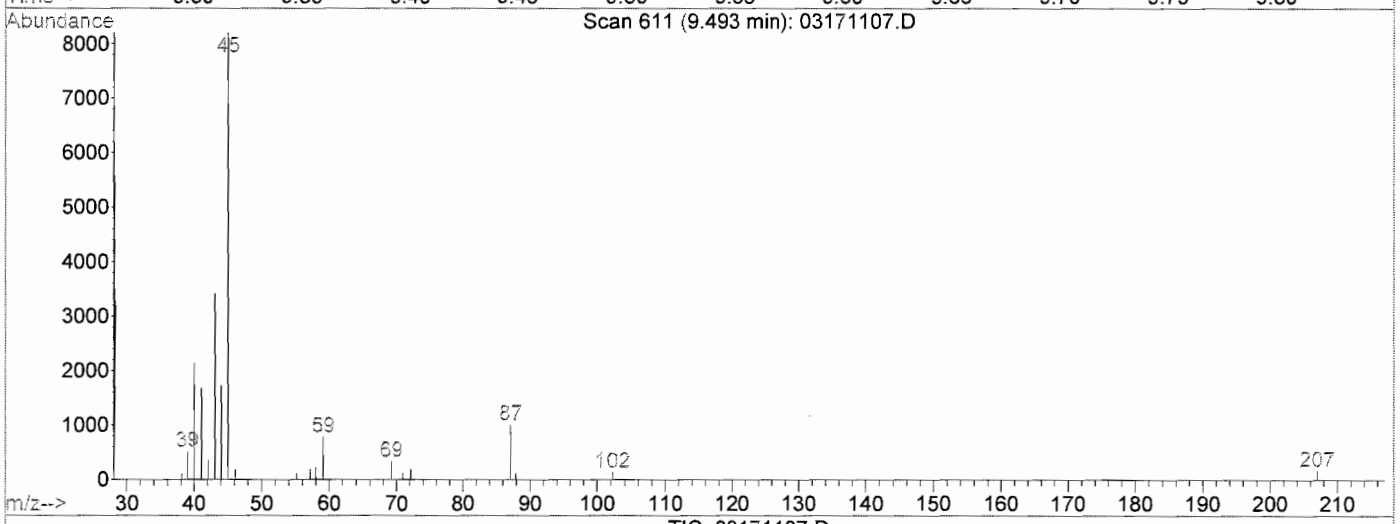
03171107.D 031411.M Thu Mar 17 13:57:01 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171107.D

(18) 2-Butanone (MEK) (T)

9.49min 1.46ug/L m

response 405

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

After

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	1.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.00%	
39) Toluene-d8	14.12	98	14880	1.07 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.28%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.40%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.94 ug/L	95
3) Chloromethane	4.89	50	11297	1.01 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.07 ug/L #	84
5) Bromomethane	5.77	94	5200	1.07 ug/L	90
6) Chloroethane	5.98	64	6815	1.17 ug/L	90
7) Trichlorofluoromethane	6.77	101	8152	1.00 ug/L	92
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.57	142	3864	1.02 ug/L #	83
10) 1,1-Dichloroethene	7.51	96	5486	1.05 ug/L	95
11) Methylene chloride	7.70	84	6767	1.24 ug/L	93
12) Freon 113	7.78	101	6284	1.18 ug/L	96
13) Carbon disulfide	8.02	76	17829	0.89 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.20 ug/L	83
15) MTBE	8.73	73	10605	1.24 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.17 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.23 ug/L #	92
18) 2-Butanone (MEK)	9.49	72	405m	1.46 ug/L	
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	96
21) Chloroform	9.93	83	8465	0.98 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.97 ug/L	92
24) 1,2-Dichloroethane	10.78	62	5936	1.16 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.95 ug/L	95
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	94
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.03 ug/L	98
30) Dibromomethane	12.17	93	2529	1.07 ug/L	96
31) 1,2-Dichloropropane	12.21	63	5383	0.97 ug/L #	88
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.97 ug/L	87
34) 2-Chlorovinylethylether	12.86	63	1739	1.28 ug/L #	82
35) cis-1,3-Dichloropropene	13.18	75	6952	0.99 ug/L	94
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.11 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.97 ug/L #	82
40) Toluene	14.22	92	10459	0.94 ug/L	91
42) 1,3-Dichloropropane	14.27	76	5543	0.99 ug/L #	73

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

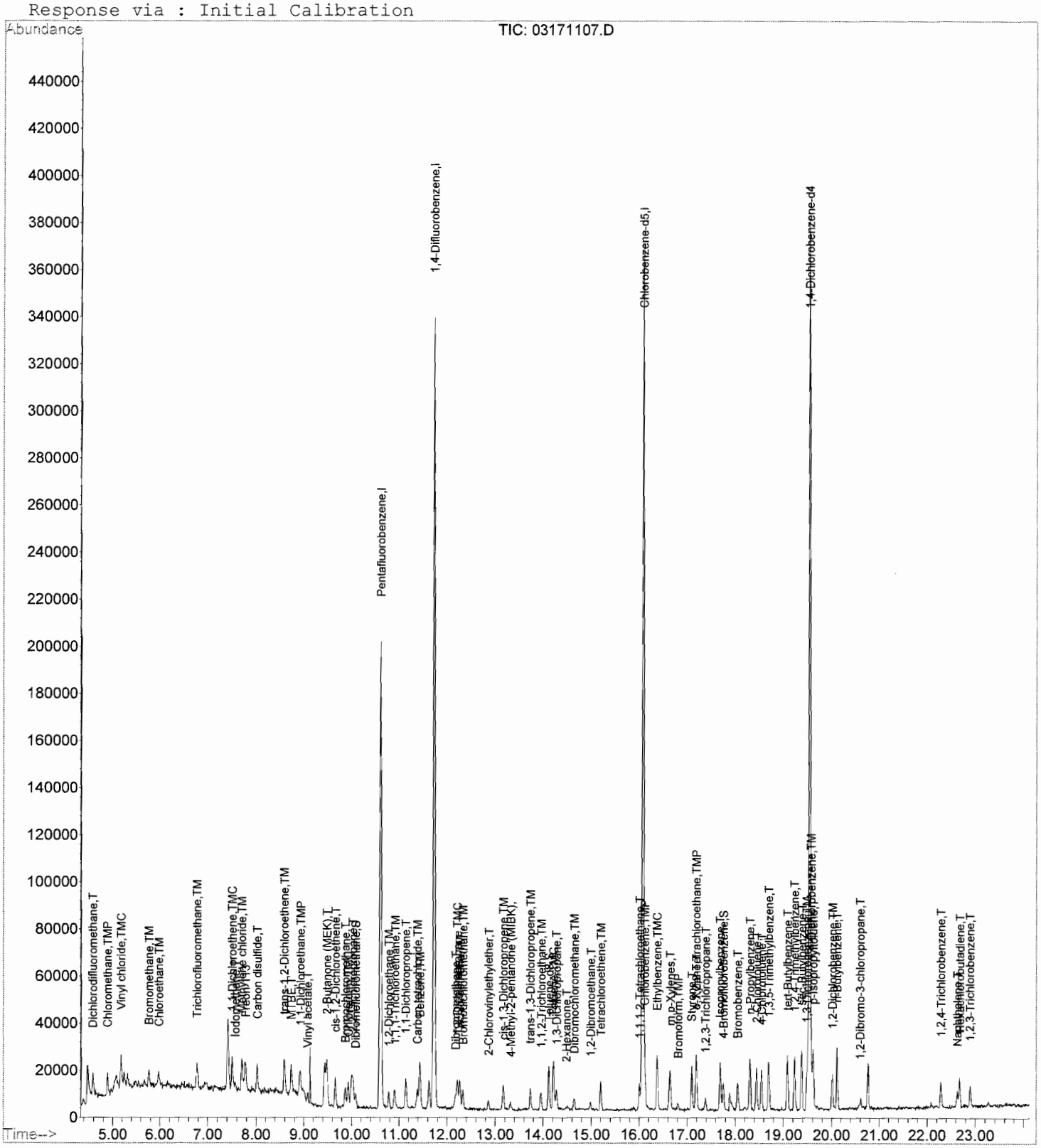
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43) 2-Hexanone	14.48	43	2515	1.31 ug/L	#	77
44) Dibromochloromethane	14.65	129	2863	0.89 ug/L		98
45) 1,2-Dibromoethane	14.98	107	2446	0.90 ug/L	#	78
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L		93
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.03 ug/L	#	58
48) Chlorobenzene	16.12	112	10976	0.96 ug/L		92
49) Ethylbenzene	16.38	91	20598	0.97 ug/L		99
50) m,p-Xylenes	16.64	106	6910	0.93 ug/L		92
51) Styrene	17.10	104	10355	0.90 ug/L		98
52) o-Xylene	17.20	106	7210	1.00 ug/L		90
55) Bromoform	16.81	173	1545	0.97 ug/L	#	72
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L	#	89
57) 1,2,3-Trichloropropane	17.38	110	807	1.14 ug/L		98
58) Isopropylbenzene	17.70	105	16311	0.92 ug/L		100
59) Bromobenzene	18.05	156	3839	0.96 ug/L		97
60) n-Propylbenzene	18.30	91	23854	0.96 ug/L		99
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L		96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L		99
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L		96
64) tert-Butylbenzene	19.09	119	12127	0.94 ug/L		96
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.95 ug/L		100
66) sec-Butylbenzene	19.38	105	21187	0.96 ug/L		97
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L		93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L		98
69) p-Isopropyltoluene	19.61	119	15312	0.90 ug/L		98
70) 1,2-Dichlorobenzene	20.02	146	6687	0.96 ug/L		99
71) n-Butylbenzene	20.11	91	17346	0.92 ug/L		96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.90 ug/L		89
73) 1,2,4-Trichlorobenzene	22.28	180	4683	0.95 ug/L		94
74) Naphthalene	22.63	128	5978	0.95 ug/L		100
75) Hexachlorobutadiene	22.68	225	2850	0.43 ug/L		90
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.84 ug/L		94

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: 031411.RES

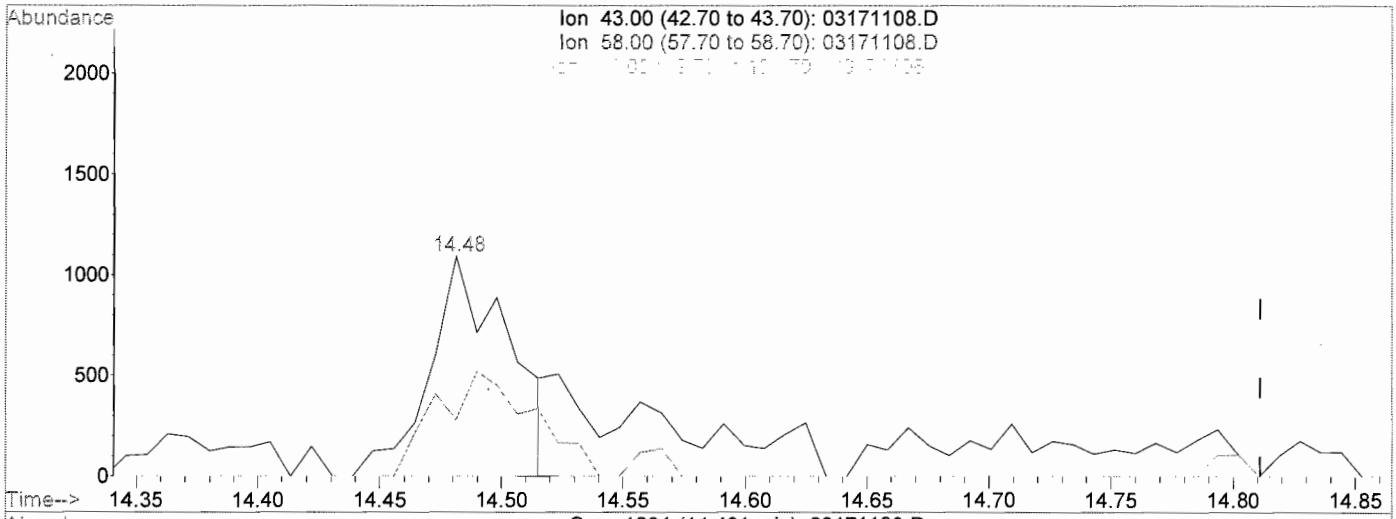
Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration

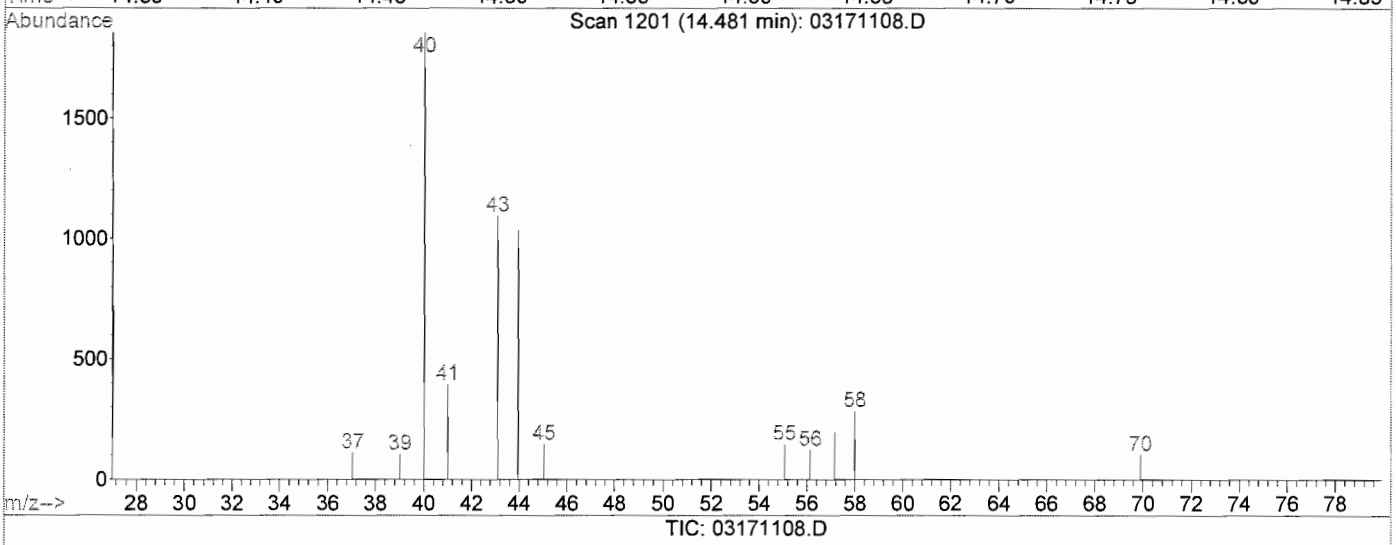


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(43) 2-Hexanone (T)

14.48min 1.28ug/L

response 2474

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	39.81
100.00	0.00	0.00
0.00	0.00	0.00

Before - NIP

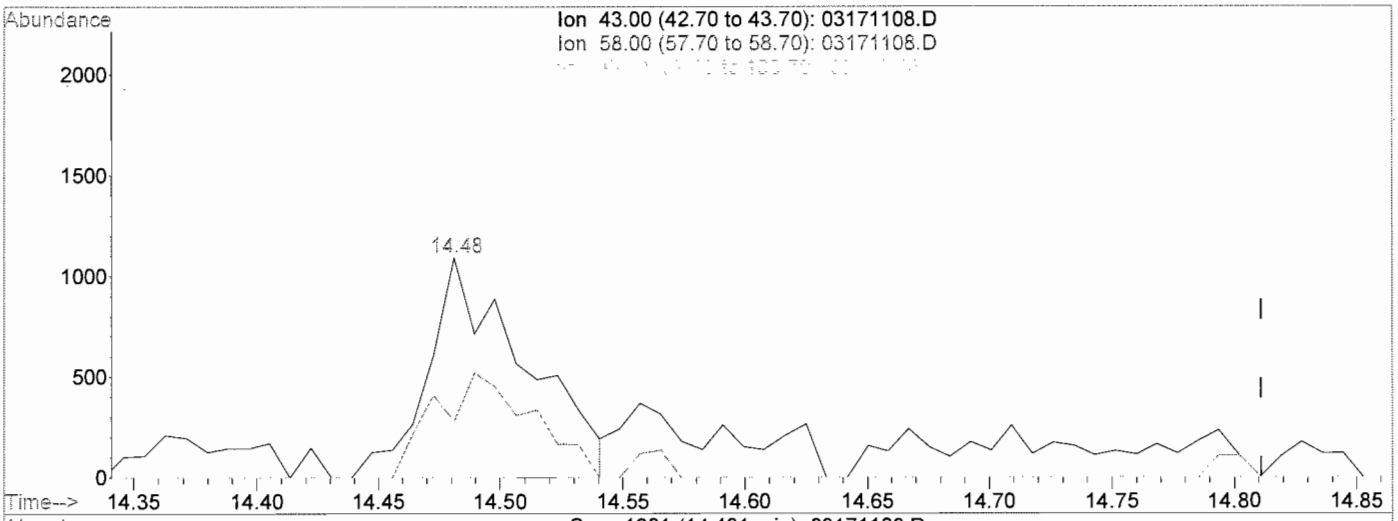
LC 03/18/11

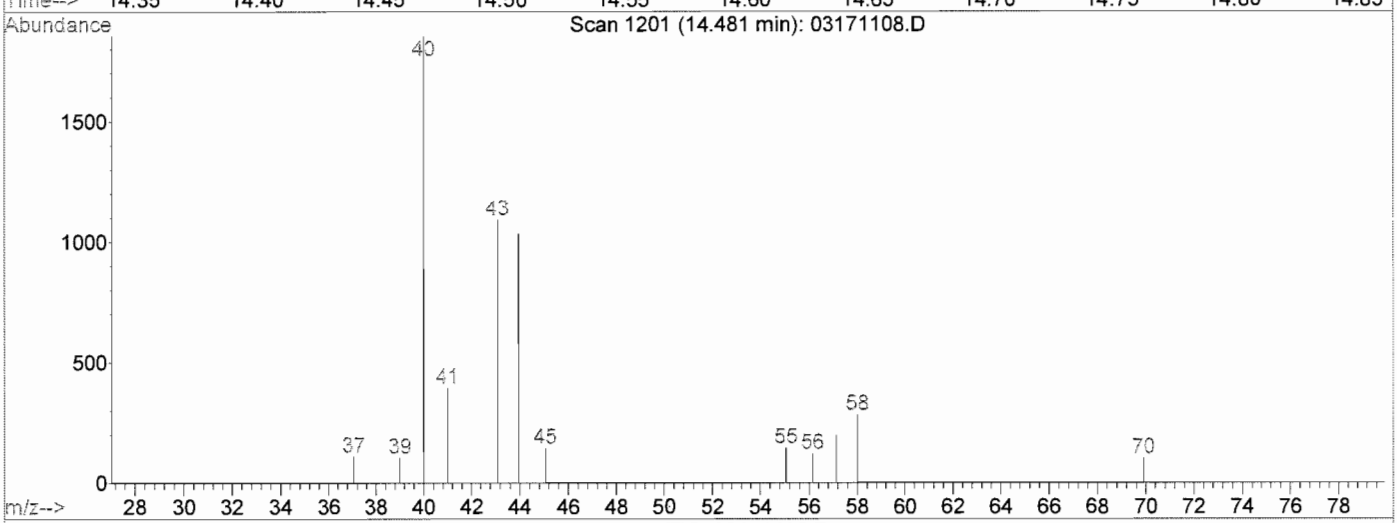
03171108.D 031411.M Thu Mar 17 13:59:09 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171108.D

(43) 2-Hexanone (T)

14.48min 1.55ug/L m

response 2999

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	32.84#
100.00	0.00	0.00
0.00	0.00	0.00

After

MJ

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.80%	
39) Toluene-d8	14.12	98	28802	2.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.16%	
53) 4-Bromofluorobenzene	17.75	95	10411	2.08 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.32%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.95 ug/L	94
3) Chloromethane	4.89	50	22795	2.00 ug/L	97
4) Vinyl chloride	5.18	62	22297	2.00 ug/L	95
5) Bromomethane	5.77	94	6970	1.41 ug/L	95
6) Chloroethane	5.98	64	11754	1.97 ug/L #	85
7) Trichlorofluoromethane	6.78	101	16143	1.94 ug/L	100
8) Acetone	6.94	43	4997	2.62 ug/L	97
9) Iodomethane	7.57	142	5343	1.38 ug/L	96
10) 1,1-Dichloroethene	7.51	96	8308	1.69 ug/L	98
11) Methylene chloride	7.71	84	10726	1.93 ug/L	97
12) Freon 113	7.77	101	10221	1.89 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.70 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.85 ug/L	97
15) MTBE	8.73	73	16615	1.90 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.93 ug/L	99
17) Vinyl acetate	9.08	43	14566	1.77 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	0.63 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.03 ug/L	91
20) Bromochloromethane	9.88	128	3627	1.82 ug/L	89
21) Chloroform	9.93	83	18162	2.07 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.91 ug/L	96
24) 1,2-Dichloroethane	10.78	62	10721	2.06 ug/L #	94
25) 1,1,1-Trichloroethane	10.91	97	12034	1.83 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	99
28) Carbon tetrachloride	11.38	117	9830	1.86 ug/L	94
29) Benzene	11.44	78	39494	1.97 ug/L	99
30) Dibromomethane	12.17	93	4597	1.92 ug/L	90
31) 1,2-Dichloropropane	12.22	63	10960	1.95 ug/L #	94
32) Trichloroethene	12.27	95	9761	1.93 ug/L	94
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.91 ug/L #	85
35) cis-1,3-Dichloropropene	13.16	75	13465	1.88 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.68 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.85 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.91 ug/L	94
40) Toluene	14.21	92	22811	2.03 ug/L	97
42) 1,3-Dichloropropane	14.28	76	10418	1.86 ug/L	92

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

3/1/11
3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.48	43	2999m	1.55 ug/L		
44)	Dibromochloromethane	14.65	129	6238	1.94 ug/L		97
45)	1,2-Dibromoethane	14.99	107	5443	1.99 ug/L	#	100
46)	Tetrachloroethene	15.21	166	8224	1.88 ug/L		99
47)	1,1,1,2-Tetrachloroethane	16.01	131	6797	1.94 ug/L		95
48)	Chlorobenzene	16.12	112	21803	1.89 ug/L		90
49)	Ethylbenzene	16.38	91	40622	1.91 ug/L		99
50)	m,p-Xylenes	16.64	106	14567	1.95 ug/L		99
51)	Styrene	17.09	104	21955	1.91 ug/L		100
52)	o-Xylene	17.19	106	14080	1.95 ug/L		98
55)	Bromoform	16.81	173	2978	1.87 ug/L		95
56)	1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L		95
57)	1,2,3-Trichloropropane	17.40	110	1450	2.05 ug/L		99
58)	Isopropylbenzene	17.69	105	34246	1.94 ug/L		99
59)	Bromobenzene	18.05	156	7927	1.99 ug/L		98
60)	n-Propylbenzene	18.30	91	47531	1.91 ug/L		99
61)	2-Chlorotoluene	18.44	91	27642	1.93 ug/L		99
62)	4-Chlorotoluene	18.55	91	28051	1.96 ug/L		99
63)	1,3,5-Trimethylbenzene	18.71	105	28488	1.90 ug/L		97
64)	tert-Butylbenzene	19.09	119	24316	1.89 ug/L		95
65)	1,2,4-Trimethylbenzene	19.24	105	29321	1.92 ug/L		96
66)	sec-Butylbenzene	19.38	105	43119	1.97 ug/L		96
67)	1,3-Dichlorobenzene	19.48	146	16064	1.97 ug/L		96
68)	1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L		97
69)	p-Isopropyltoluene	19.61	119	32053	1.88 ug/L		99
70)	1,2-Dichlorobenzene	20.01	146	13744	1.99 ug/L		99
71)	n-Butylbenzene	20.12	91	35106	1.86 ug/L		97
72)	1,2-Dibromo-3-chloropropan	20.59	157	972	2.24 ug/L	#	75
73)	1,2,4-Trichlorobenzene	22.29	180	8342	1.70 ug/L		96
74)	Naphthalene	22.63	128	10824	1.73 ug/L		100
75)	Hexachlorobutadiene	22.68	225	5711	1.50 ug/L		98
76)	1,2,3-Trichlorobenzene	22.90	180	7016	1.72 ug/L		94

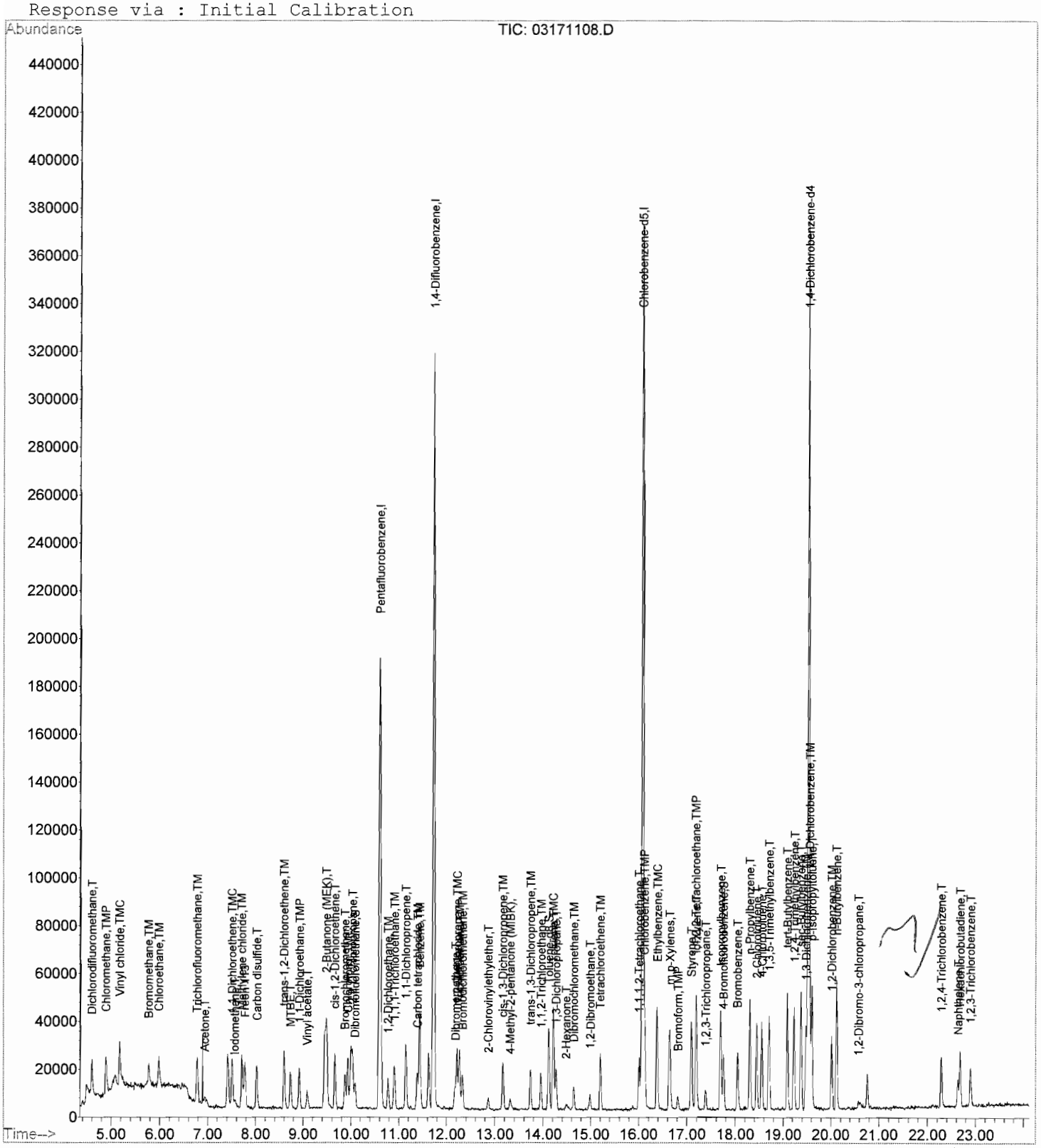
m)

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.84 ug/L	0.00
Spiked Amount 25.000			Recovery	= 23.36%	
39) Toluene-d8	14.12	98	75601	5.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.36%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.84%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.56 ug/L	98
3) Chloromethane	4.90	50	69304	6.20 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.46 ug/L	97
5) Bromomethane	5.77	94	23286	4.82 ug/L	97
6) Chloroethane	5.98	64	31380	5.37 ug/L	97
7) Trichlorofluoromethane	6.78	101	44900	5.49 ug/L	98
8) Acetone	6.94	43	8551	5.67 ug/L	96
9) Iodomethane	7.57	142	19144	5.06 ug/L	100
10) 1,1-Dichloroethene	7.51	96	23635	5.45 ug/L	96
11) Methylene chloride	7.71	84	29505	5.41 ug/L	98
12) Freon 113	7.78	101	28220	5.32 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.39 ug/L	89
15) MTBE	8.74	73	47481	5.54 ug/L	98
16) 1,1-Dichloroethane	8.92	63	57409	5.51 ug/L	100
17) Vinyl acetate	9.09	43	45219	5.60 ug/L	97
18) 2-Butanone (MEK)	9.47	72	1224	4.43 ug/L #	38
19) cis-1,2-Dichloroethene	9.66	96	29437	5.59 ug/L	93
20) Bromochloromethane	9.87	128	11063	5.67 ug/L	98
21) Chloroform	9.93	83	49311	5.72 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.50 ug/L	98
24) 1,2-Dichloroethane	10.78	62	29254	5.73 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.44 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.37 ug/L	98
29) Benzene	11.44	78	106054	5.27 ug/L	99
30) Dibromomethane	12.17	93	12758	5.32 ug/L	96
31) 1,2-Dichloropropane	12.21	63	30926	5.49 ug/L	98
32) Trichloroethene	12.26	95	27719	5.47 ug/L	93
33) Bromodichloromethane	12.33	83	32710	5.51 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.30 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	39480	5.52 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	4.84 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.29 ug/L	99
40) Toluene	14.21	92	60380	5.37 ug/L	100
42) 1,3-Dichloropropane	14.27	76	31749	5.61 ug/L	96

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

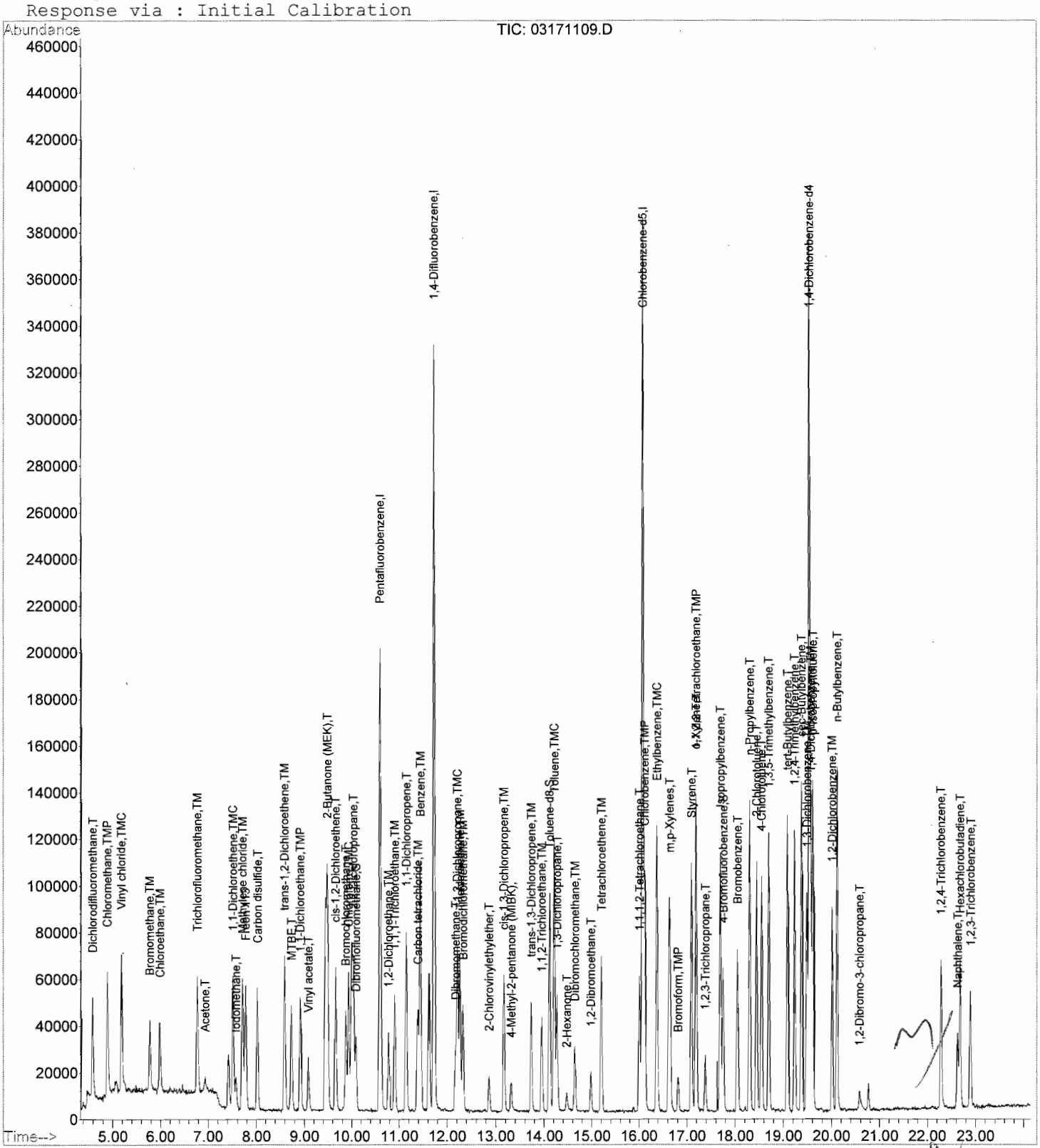
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.47	43	10625	5.44 ug/L	#	92
44)	Dibromochloromethane	14.64	129	17145	5.27 ug/L		98
45)	1,2-Dibromoethane	14.98	107	15883	5.75 ug/L	#	97
46)	Tetrachloroethene	15.21	166	22589	5.10 ug/L		97
47)	1,1,1,2-Tetrachloroethane	16.00	131	18388	5.20 ug/L		97
48)	Chlorobenzene	16.12	112	60084	5.16 ug/L		96
49)	Ethylbenzene	16.38	91	112334	5.23 ug/L		100
50)	m,p-Xylenes	16.64	106	39718	5.25 ug/L		100
51)	Styrene	17.09	104	62548	5.37 ug/L		99
52)	o-Xylene	17.20	106	38050	5.20 ug/L		99
55)	Bromoform	16.81	173	9209	5.63 ug/L		92
56)	1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L		97
57)	1,2,3-Trichloropropane	17.38	110	4203	5.79 ug/L		86
58)	Isopropylbenzene	17.69	105	91339	5.05 ug/L		98
59)	Bromobenzene	18.05	156	21568	5.28 ug/L		97
60)	n-Propylbenzene	18.30	91	134531	5.26 ug/L		97
61)	2-Chlorotoluene	18.45	91	75803	5.15 ug/L		100
62)	4-Chlorotoluene	18.55	91	77070	5.24 ug/L		98
63)	1,3,5-Trimethylbenzene	18.70	105	79213	5.14 ug/L		100
64)	tert-Butylbenzene	19.09	119	66536	5.03 ug/L		97
65)	1,2,4-Trimethylbenzene	19.23	105	78965	5.03 ug/L		100
66)	sec-Butylbenzene	19.37	105	115485	5.13 ug/L		99
67)	1,3-Dichlorobenzene	19.48	146	42641	5.08 ug/L		99
68)	1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L		97
69)	p-Isopropyltoluene	19.60	119	87337	5.00 ug/L		97
70)	1,2-Dichlorobenzene	20.01	146	38242	5.39 ug/L		99
71)	n-Butylbenzene	20.12	91	99714	5.16 ug/L		98
72)	1,2-Dibromo-3-chloropropan	20.58	157	2137	4.80 ug/L		95
73)	1,2,4-Trichlorobenzene	22.28	180	24323	4.82 ug/L		99
74)	Naphthalene	22.63	128	32491	5.06 ug/L		100
75)	Hexachlorobutadiene	22.68	225	14709	4.71 ug/L		99
76)	1,2,3-Trichlorobenzene	22.90	180	20581	4.91 ug/L		98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.76 ug/L	0.00
Spiked Amount 25.000			Recovery = 43.04%		
39) Toluene-d8	14.12	98	143321	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery = 40.72%		
53) 4-Bromofluorobenzene	17.75	95	50923	10.16 ug/L	0.00
Spiked Amount 25.000			Recovery = 40.64%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	9.93 ug/L	100
3) Chloromethane	4.89	50	135497	11.91 ug/L	99
4) Vinyl chloride	5.19	62	111850	10.07 ug/L	100
5) Bromomethane	5.78	94	53427	10.86 ug/L	91
6) Chloroethane	5.98	64	63788	10.72 ug/L	98
7) Trichlorofluoromethane	6.78	101	85392	10.27 ug/L	99
8) Acetone	6.94	43	11502	8.08 ug/L	97
9) Iodomethane	7.57	142	36401	9.45 ug/L	95
10) 1,1-Dichloroethene	7.51	96	46909	10.89 ug/L	94
11) Methylene chloride	7.71	84	55460	9.98 ug/L	99
12) Freon 113	7.78	101	52409	9.70 ug/L	99
13) Carbon disulfide	8.03	76	162804	10.64 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.90 ug/L	94
15) MTBE	8.74	73	84759	9.71 ug/L	96
16) 1,1-Dichloroethane	8.92	63	108838	10.26 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.96 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	9.44 ug/L	88
19) cis-1,2-Dichloroethene	9.66	96	53573	9.99 ug/L	98
20) Bromochloromethane	9.88	128	20976	10.55 ug/L	100
21) Chloroform	9.93	83	95119	10.84 ug/L	100
22) 2,2-Dichloropropane	10.04	77	73939	10.10 ug/L	98
24) 1,2-Dichloroethane	10.77	62	53618	10.31 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	66517	10.14 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.21 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.31 ug/L	98
29) Benzene	11.44	78	201076	10.05 ug/L	100
30) Dibromomethane	12.17	93	24596	10.31 ug/L	96
31) 1,2-Dichloropropane	12.21	63	55294	9.87 ug/L	100
32) Trichloroethene	12.27	95	49861	9.89 ug/L	98
33) Bromodichloromethane	12.33	83	60334	10.22 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	9.32 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	73950	10.38 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.23 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.24 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	27640	10.13 ug/L	97
40) Toluene	14.21	92	114354	10.22 ug/L	100
42) 1,3-Dichloropropane	14.27	76	56624	10.10 ug/L	98

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

3/18/11

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

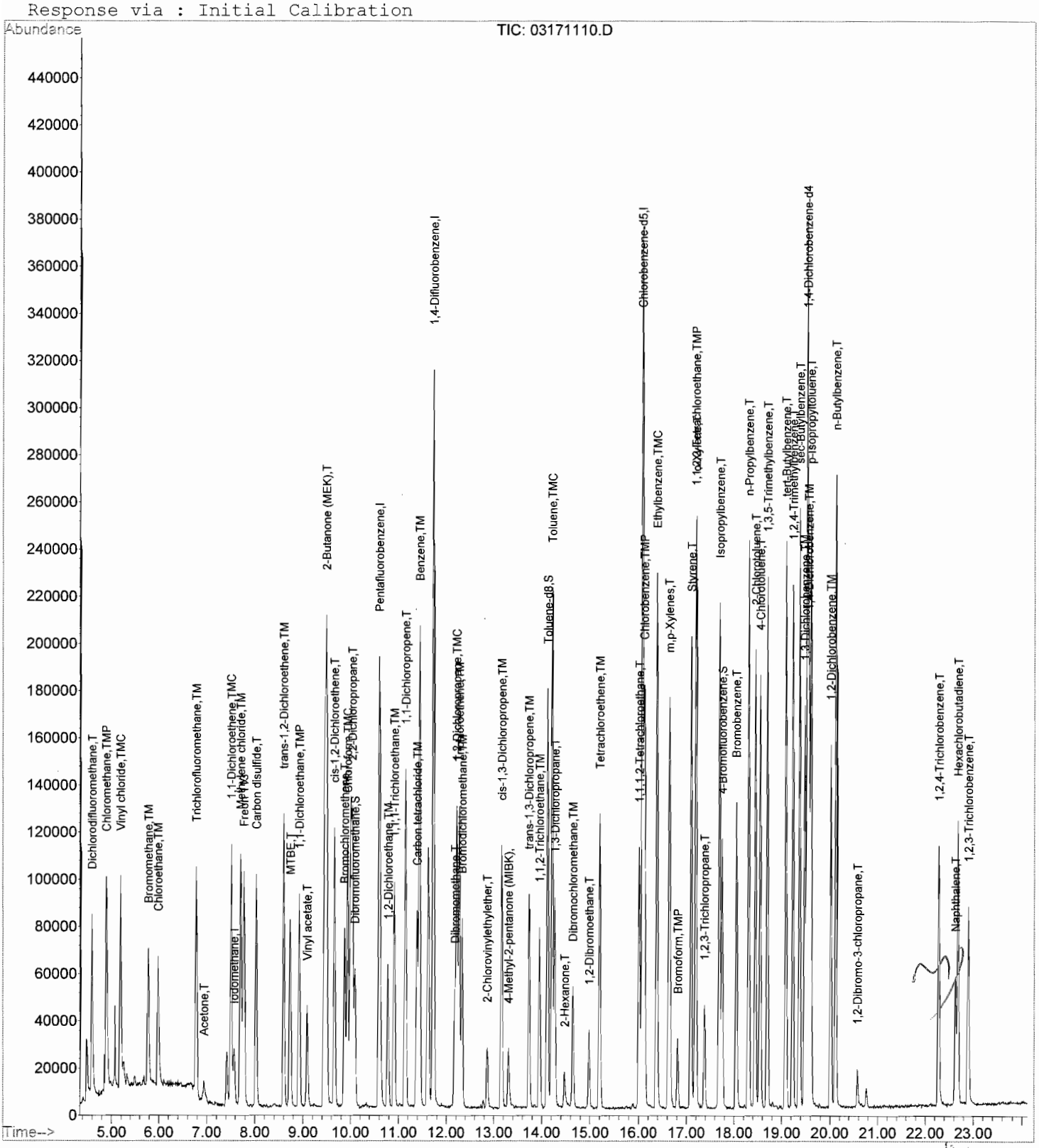
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.47	43	17603	9.10 ug/L	#	96
44)	Dibromochloromethane	14.64	129	32389	10.06 ug/L		100
45)	1,2-Dibromoethane	14.98	107	28536	10.44 ug/L		98
46)	Tetrachloroethene	15.21	166	44478	10.14 ug/L		98
47)	1,1,1,2-Tetrachloroethane	16.01	131	35495	10.14 ug/L		99
48)	Chlorobenzene	16.12	112	113625	9.85 ug/L		100
49)	Ethylbenzene	16.38	91	215370	10.13 ug/L		100
50)	m,p-Xylenes	16.64	106	74201	9.90 ug/L		98
51)	Styrene	17.09	104	115227	9.99 ug/L		98
52)	o-Xylene	17.20	106	71920	9.92 ug/L		97
55)	Bromoform	16.81	173	16316	10.52 ug/L		96
56)	1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L	#	99
57)	1,2,3-Trichloropropane	17.39	110	7243	10.53 ug/L		96
58)	Isopropylbenzene	17.69	105	176438	10.28 ug/L		100
59)	Bromobenzene	18.05	156	40825	10.54 ug/L		98
60)	n-Propylbenzene	18.30	91	250684	10.34 ug/L		98
61)	2-Chlorotoluene	18.45	91	143783	10.30 ug/L		100
62)	4-Chlorotoluene	18.55	91	141563	10.15 ug/L		99
63)	1,3,5-Trimethylbenzene	18.70	105	151285	10.35 ug/L		98
64)	tert-Butylbenzene	19.09	119	128292	10.22 ug/L		98
65)	1,2,4-Trimethylbenzene	19.23	105	149598	10.05 ug/L		99
66)	sec-Butylbenzene	19.37	105	214687	10.06 ug/L		100
67)	1,3-Dichlorobenzene	19.48	146	80400	10.10 ug/L		99
68)	1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L		99
69)	p-Isopropyltoluene	19.61	119	168592	10.18 ug/L		99
70)	1,2-Dichlorobenzene	20.02	146	69024	10.25 ug/L		99
71)	n-Butylbenzene	20.12	91	183374	10.00 ug/L		100
72)	1,2-Dibromo-3-chloropropan	20.57	157	4643	11.01 ug/L		97
73)	1,2,4-Trichlorobenzene	22.28	180	41924	8.76 ug/L		100
74)	Naphthalene	22.63	128	55616	9.13 ug/L		100
75)	Hexachlorobutadiene	22.68	225	29027	10.49 ug/L		99
76)	1,2,3-Trichlorobenzene	22.90	180	34759	8.75 ug/L		99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	26.41 ug/L	0.00
Spiked Amount 25.000			Recovery =	105.64%	
39) Toluene-d8	14.12	98	359841	25.92 ug/L	0.00
Spiked Amount 25.000			Recovery =	103.68%	
53) 4-Bromofluorobenzene	17.75	95	128707	25.94 ug/L	0.00
Spiked Amount 25.000			Recovery =	103.76%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.20 ug/L	98
3) Chloromethane	4.89	50	322628	28.77 ug/L	99
4) Vinyl chloride	5.18	62	283499	25.90 ug/L	100
5) Bromomethane	5.78	94	141242	29.13 ug/L	96
6) Chloroethane	5.98	64	150117	25.60 ug/L	98
7) Trichlorofluoromethane	6.78	101	214158	26.12 ug/L	99
8) Acetone	6.94	43	25928	23.73 ug/L	98
9) Iodomethane	7.57	142	98109	25.84 ug/L	97
10) 1,1-Dichloroethene	7.51	96	111502	26.67 ug/L	98
11) Methylene chloride	7.71	84	132209	24.14 ug/L	99
12) Freon 113	7.77	101	133636	25.10 ug/L	98
13) Carbon disulfide	8.03	76	401884	27.15 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.92 ug/L	98
15) MTBE	8.74	73	214946	24.98 ug/L	99
16) 1,1-Dichloroethane	8.92	63	264682	25.31 ug/L	99
17) Vinyl acetate	9.08	43	202265	24.98 ug/L	99
18) 2-Butanone (MEK)	9.47	72	6903	24.88 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	131490	24.87 ug/L	99
20) Bromochloromethane	9.87	128	47437	24.21 ug/L	94
21) Chloroform	9.93	83	218360	25.26 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	24.96 ug/L	98
24) 1,2-Dichloroethane	10.78	62	136474	26.62 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	162207	25.09 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.70 ug/L	99
28) Carbon tetrachloride	11.39	117	133369	25.74 ug/L	100
29) Benzene	11.44	78	490622	24.87 ug/L	99
30) Dibromomethane	12.17	93	58067	24.68 ug/L	98
31) 1,2-Dichloropropane	12.21	63	140014	25.35 ug/L	99
32) Trichloroethene	12.27	95	124690	25.08 ug/L	98
33) Bromodichloromethane	12.33	83	150764	25.89 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	21.41 ug/L	98
35) cis-1,3-Dichloropropene	13.16	75	183565	26.14 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	23.09 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.77 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	24.66 ug/L	98
40) Toluene	14.21	92	282149	25.56 ug/L	98
42) 1,3-Dichloropropane	14.27	76	140210	25.26 ug/L	98

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

3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

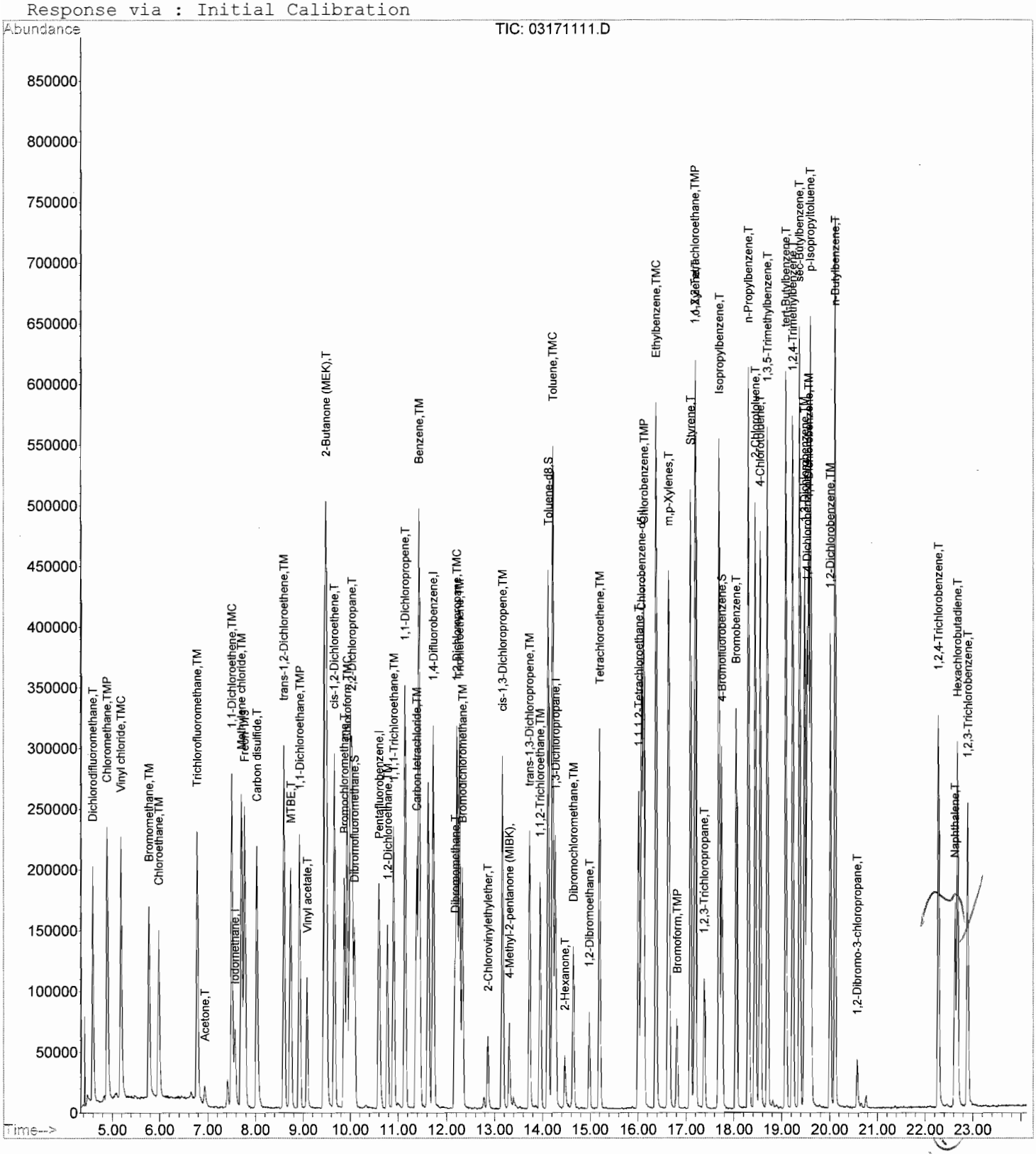
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.47	43	44449	23.20 ug/L	#	93
44)	Dibromochloromethane	14.64	129	81864	25.66 ug/L		99
45)	1,2-Dibromoethane	14.98	107	70424	26.01 ug/L		99
46)	Tetrachloroethene	15.21	166	109364	25.16 ug/L		99
47)	1,1,1,2-Tetrachloroethane	16.01	131	87769	25.31 ug/L		97
48)	Chlorobenzene	16.12	112	284407	24.90 ug/L		99
49)	Ethylbenzene	16.37	91	538674	25.57 ug/L		99
50)	m,p-Xylenes	16.64	106	186494	25.11 ug/L		99
51)	Styrene	17.09	104	295005	25.82 ug/L		99
52)	o-Xylene	17.19	106	177920	24.79 ug/L		97
55)	Bromoform	16.81	173	42372	26.71 ug/L		95
56)	1,1,2,2-Tetrachloroethane	17.18	83	82184	24.99 ug/L		98
57)	1,2,3-Trichloropropane	17.38	110	18834	26.78 ug/L		95
58)	Isopropylbenzene	17.69	105	445254	25.36 ug/L		100
59)	Bromobenzene	18.05	156	105054	26.51 ug/L		98
60)	n-Propylbenzene	18.30	91	632559	25.51 ug/L		99
61)	2-Chlorotoluene	18.44	91	364433	25.52 ug/L		100
62)	4-Chlorotoluene	18.55	91	369067	25.87 ug/L		99
63)	1,3,5-Trimethylbenzene	18.70	105	381972	25.55 ug/L		100
64)	tert-Butylbenzene	19.09	119	324112	25.26 ug/L		99
65)	1,2,4-Trimethylbenzene	19.23	105	382900	25.14 ug/L		99
66)	sec-Butylbenzene	19.37	105	556785	25.52 ug/L		99
67)	1,3-Dichlorobenzene	19.48	146	205642	25.27 ug/L		99
68)	1,4-Dichlorobenzene	19.57	146	201942	24.80 ug/L		99
69)	p-Isopropyltoluene	19.61	119	434002	25.61 ug/L		100
70)	1,2-Dichlorobenzene	20.02	146	178826	25.97 ug/L		99
71)	n-Butylbenzene	20.12	91	487367	26.00 ug/L		100
72)	1,2-Dibromo-3-chloropropan	20.58	157	11318	26.23 ug/L		95
73)	1,2,4-Trichlorobenzene	22.28	180	122376	25.01 ug/L		99
74)	Naphthalene	22.63	128	163821	26.30 ug/L		100
75)	Hexachlorobutadiene	22.69	225	76790	28.14 ug/L		99
76)	1,2,3-Trichlorobenzene	22.90	180	101564	24.99 ug/L		100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	49.12 ug/L	0.00
Spiked Amount 25.000			Recovery =	196.48%	
39) Toluene-d8	14.11	98	726789	50.32 ug/L	0.00
Spiked Amount 25.000			Recovery =	201.28%	
53) 4-Bromofluorobenzene	17.76	95	259969	50.54 ug/L	0.00
Spiked Amount 25.000			Recovery =	202.16%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	46.88 ug/L	100
3) Chloromethane	4.90	50	687656	58.35 ug/L	100
4) Vinyl chloride	5.18	62	596978	51.89 ug/L	98
5) Bromomethane	5.78	94	296252	58.13 ug/L	98
6) Chloroethane	5.99	64	300876	48.83 ug/L	97
7) Trichlorofluoromethane	6.78	101	340516	39.53 ug/L	98
8) Acetone	6.93	43	44278	Below Cal	99
9) Iodomethane	7.58	142	195341	48.96 ug/L	99
10) 1,1-Dichloroethene	7.52	96	220268	50.38 ug/L	97
11) Methylene chloride	7.71	84	264019	45.88 ug/L	99
12) Freon 113	7.78	101	262900	47.00 ug/L	99
13) Carbon disulfide	8.03	76	807912	52.24 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.50 ug/L	98
15) MTBE	8.73	73	407385	45.06 ug/L	98
16) 1,1-Dichloroethane	8.92	63	517515	47.09 ug/L	100
17) Vinyl acetate	9.08	43	400997	47.13 ug/L	100
18) 2-Butanone (MEK)	9.47	72	13656	46.83 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	257331	46.32 ug/L	99
20) Bromochloromethane	9.87	128	96376	46.81 ug/L	98
21) Chloroform	9.93	83	424654	46.74 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.12 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	48.57 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	323769	47.65 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.22 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	49.71 ug/L	100
29) Benzene	11.44	78	1008066	49.11 ug/L	99
30) Dibromomethane	12.17	93	116662	47.65 ug/L	97
31) 1,2-Dichloropropane	12.21	63	281688	49.02 ug/L	99
32) Trichloroethene	12.26	95	255144	49.32 ug/L	98
33) Bromodichloromethane	12.33	83	300337	49.57 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	37.02 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	364674	49.91 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	44.54 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.71 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	47.11 ug/L	97
40) Toluene	14.22	92	583744	50.83 ug/L	100
42) 1,3-Dichloropropane	14.27	76	277506	48.23 ug/L	99

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

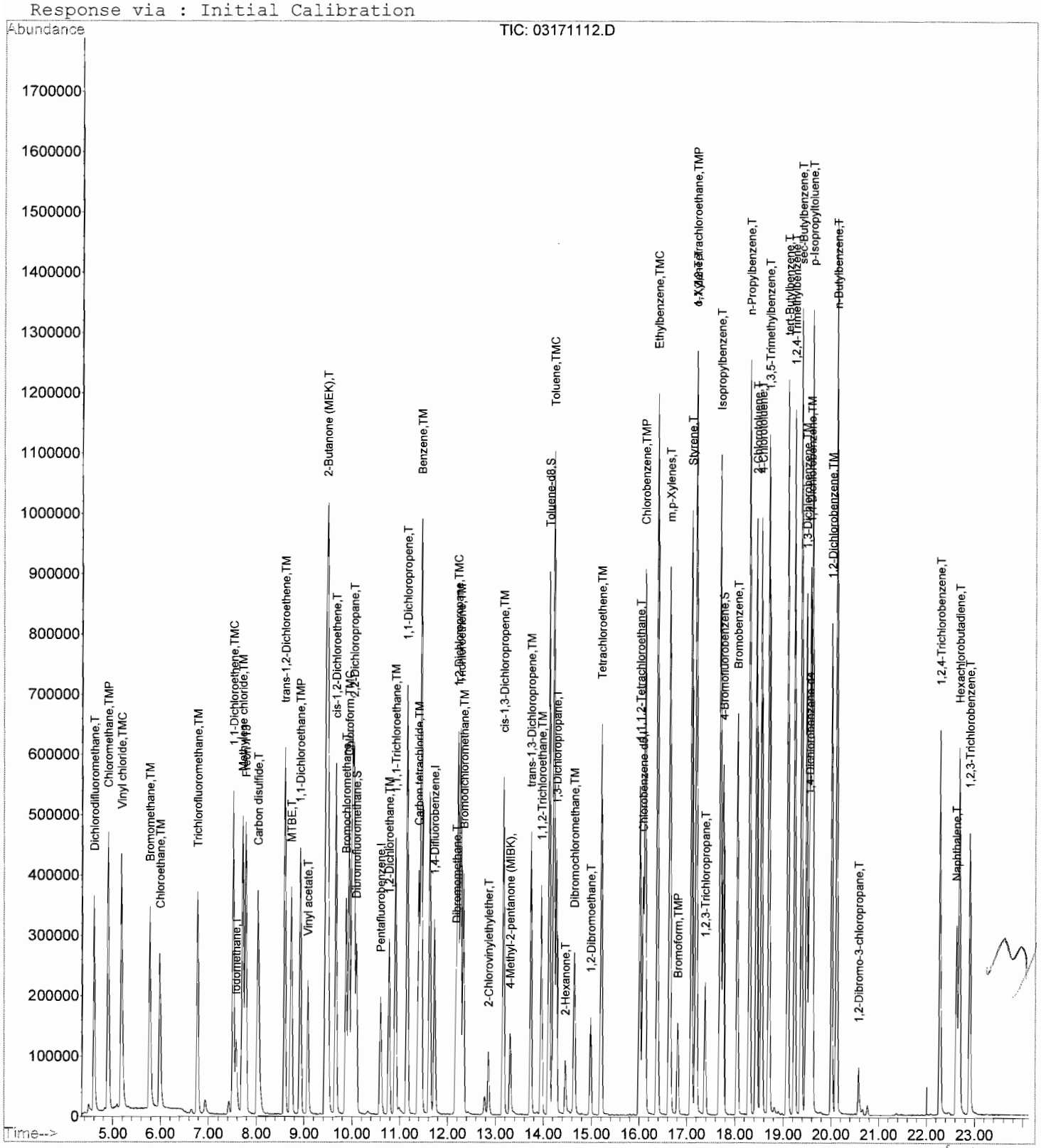
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	48.63 ug/L #	100
44) Dibromochloromethane	14.65	129	168655	51.01 ug/L	99
45) 1,2-Dibromoethane	14.98	107	142279	50.69 ug/L	99
46) Tetrachloroethene	15.20	166	223148	49.54 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	50.19 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.72 ug/L	99
49) Ethylbenzene	16.38	91	1095906	50.20 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.92 ug/L	97
51) Styrene	17.10	104	602783	50.90 ug/L	100
52) o-Xylene	17.20	106	366193	49.22 ug/L	100
55) Bromoform	16.82	173	87491	53.39 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.00 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	51.09 ug/L	99
58) Isopropylbenzene	17.70	105	904235	49.87 ug/L	99
59) Bromobenzene	18.05	156	210716	51.49 ug/L	98
60) n-Propylbenzene	18.30	91	1279523	49.95 ug/L	99
61) 2-Chlorotoluene	18.45	91	736550	49.95 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.28 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.43 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	49.92 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	772492	49.11 ug/L	98
66) sec-Butylbenzene	19.38	105	1121222	49.75 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	414698	49.34 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	411367	48.92 ug/L	99
69) p-Isopropyltoluene	19.61	119	866615	49.52 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	50.59 ug/L	100
71) n-Butylbenzene	20.11	91	964633	49.82 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	50.62 ug/L	96
73) 1,2,4-Trichlorobenzene	22.28	180	240360	47.56 ug/L	100
74) Naphthalene	22.63	128	314469	48.88 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	53.99 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	192513	45.85 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	101.93 ug/L	0.00
Spiked Amount 25.000			Recovery =	407.72%	
39) Toluene-d8	14.12	98	1505447	102.12 ug/L	0.00
Spiked Amount 25.000			Recovery =	408.48%	
53) 4-Bromofluorobenzene	17.75	95	536695	104.44 ug/L	0.00
Spiked Amount 25.000			Recovery =	417.76%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	92.13 ug/L	100
3) Chloromethane	4.90	50	1431368	119.80 ug/L	100
4) Vinyl chloride	5.18	62	1228117	105.30 ug/L	100
5) Bromomethane	5.78	94	641424	124.14 ug/L	98
6) Chloroethane	5.98	64	584071	93.50 ug/L	98
7) Trichlorofluoromethane	6.78	101	698452	79.96 ug/L	99
8) Acetone	6.94	43	84316	Below Cal	99
9) Iodomethane	7.58	142	393011	97.15 ug/L	96
10) 1,1-Dichloroethene	7.52	96	450680	101.96 ug/L	97
11) Methylene chloride	7.71	84	530536	90.93 ug/L	100
12) Freon 113	7.78	101	537890	94.84 ug/L	100
13) Carbon disulfide	8.04	76	1652598	105.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.91 ug/L	95
15) MTBE	8.74	73	859812	93.80 ug/L	100
16) 1,1-Dichloroethane	8.93	63	1054794	94.66 ug/L	100
17) Vinyl acetate	9.08	43	827230	95.91 ug/L	100
18) 2-Butanone (MEK)	9.47	72	27904	94.38 ug/L	95
19) cis-1,2-Dichloroethene	9.66	96	527963	93.73 ug/L	99
20) Bromochloromethane	9.87	128	191014	91.51 ug/L	99
21) Chloroform	9.93	83	877382	95.25 ug/L	99
22) 2,2-Dichloropropane	10.04	77	739530	96.19 ug/L	100
24) 1,2-Dichloroethane	10.78	62	540824	99.03 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	659685	95.75 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.61 ug/L	99
28) Carbon tetrachloride	11.39	117	547122	99.42 ug/L	100
29) Benzene	11.44	78	2051183	97.90 ug/L	100
30) Dibromomethane	12.17	93	236182	94.51 ug/L	98
31) 1,2-Dichloropropane	12.21	63	573859	97.85 ug/L	99
32) Trichloroethene	12.27	95	518186	98.14 ug/L	98
33) Bromodichloromethane	12.33	83	619726	100.21 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	69.01 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	755768	101.34 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	94.02 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.90 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	95.51 ug/L	97
40) Toluene	14.22	92	1181672	100.81 ug/L	100
42) 1,3-Dichloropropane	14.27	76	562918	97.92 ug/L	100

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

M 3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

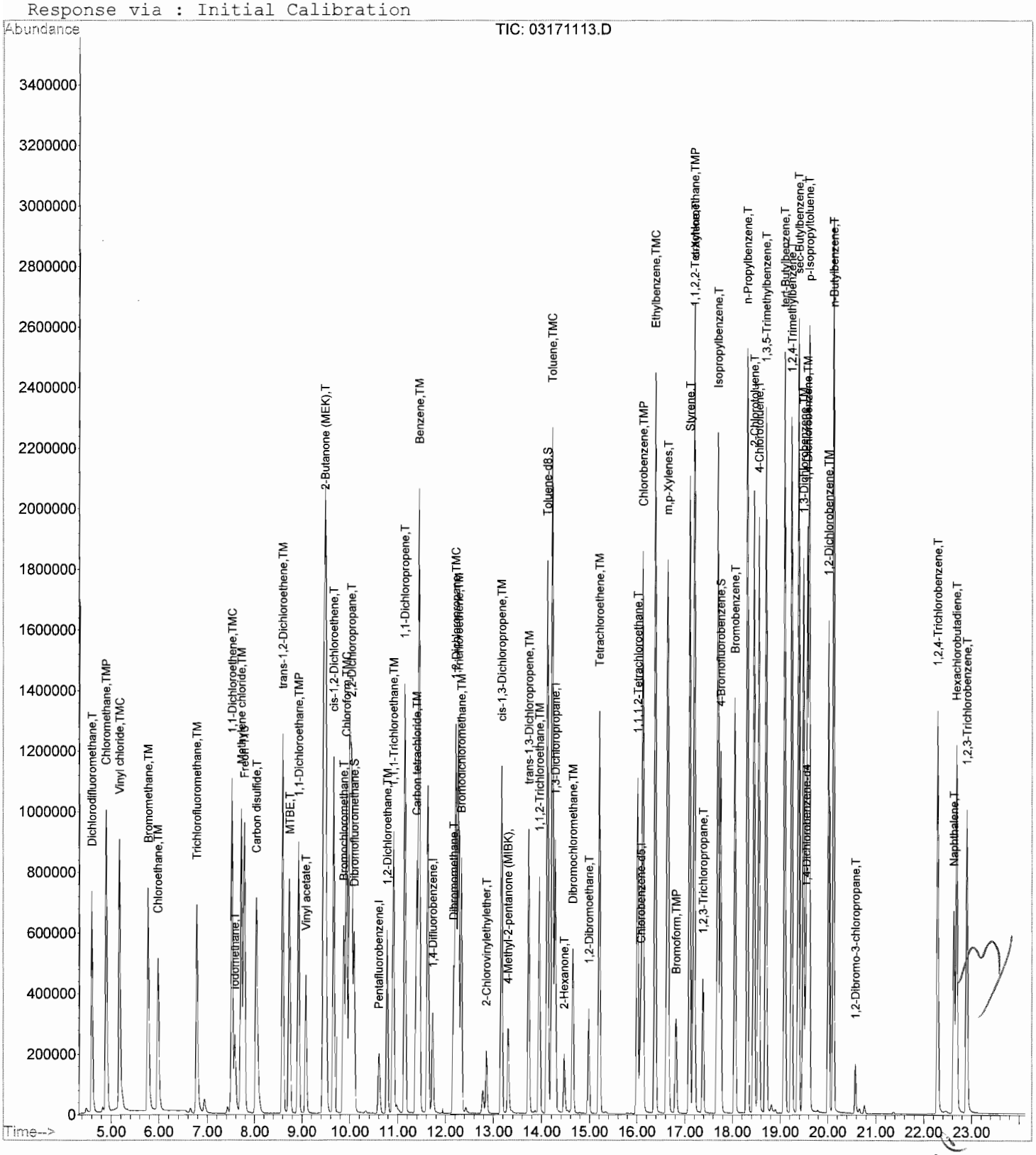
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.46	43	203381	102.53 ug/L	#	97
44)	Dibromochloromethane	14.65	129	341882	103.49 ug/L		99
45)	1,2-Dibromoethane	14.98	107	294156	104.89 ug/L		100
46)	Tetrachloroethene	15.20	166	455622	101.24 ug/L		99
47)	1,1,1,2-Tetrachloroethane	16.01	131	371997	103.59 ug/L		98
48)	Chlorobenzene	16.12	112	1190206	100.63 ug/L		99
49)	Ethylbenzene	16.38	91	2245318	102.94 ug/L		99
50)	m,p-Xylenes	16.64	106	773283	100.56 ug/L		99
51)	Styrene	17.10	104	1244691	105.20 ug/L		100
52)	o-Xylene	17.20	106	750628	100.99 ug/L		100
55)	Bromoform	16.82	173	182147	107.85 ug/L		97
56)	1,1,2,2-Tetrachloroethane	17.18	83	341207	97.48 ug/L		100
57)	1,2,3-Trichloropropane	17.38	110	75618	101.00 ug/L		99
58)	Isopropylbenzene	17.70	105	1844526	98.70 ug/L		100
59)	Bromobenzene	18.05	156	429425	101.80 ug/L		99
60)	n-Propylbenzene	18.30	91	2615929	99.09 ug/L		100
61)	2-Chlorotoluene	18.45	91	1500663	98.74 ug/L		99
62)	4-Chlorotoluene	18.55	91	1492720	98.30 ug/L		99
63)	1,3,5-Trimethylbenzene	18.70	105	1584063	99.53 ug/L		99
64)	tert-Butylbenzene	19.09	119	1344278	98.40 ug/L		99
65)	1,2,4-Trimethylbenzene	19.23	105	1578520	97.37 ug/L		98
66)	sec-Butylbenzene	19.39	105	2280043	98.16 ug/L		100
67)	1,3-Dichlorobenzene	19.49	146	847018	97.78 ug/L		99
68)	1,4-Dichlorobenzene	19.57	146	846913	97.72 ug/L		99
69)	p-Isopropyltoluene	19.61	119	1785874	99.02 ug/L		100
70)	1,2-Dichlorobenzene	20.02	146	731103	99.76 ug/L		100
71)	n-Butylbenzene	20.12	91	1981760	99.31 ug/L		99
72)	1,2-Dibromo-3-chloropropan	20.58	157	45883	99.91 ug/L		97
73)	1,2,4-Trichlorobenzene	22.28	180	510699	98.06 ug/L		98
74)	Naphthalene	22.63	128	678287	102.29 ug/L		100
75)	Hexachlorobutadiene	22.69	225	316227	110.66 ug/L		100
76)	1,2,3-Trichlorobenzene	22.90	180	412634	95.36 ug/L		99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00	ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00	ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00	ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00	ug/L	0.00
System Monitoring Compounds						
23) Dibromofluoromethane	10.09	113	839626	197.42	ug/L	0.00
Spiked Amount 25.000			Recovery =	789.68%		
39) Toluene-d8	14.12	98	3013932	203.78	ug/L	0.00
Spiked Amount 25.000			Recovery =	815.12%		
53) 4-Bromofluorobenzene	17.76	95	1038923	199.04	ug/L	0.00
Spiked Amount 25.000			Recovery =	796.16%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	172.44	ug/L	99
3) Chloromethane	4.90	50	2913054	239.06	ug/L	100
4) Vinyl chloride	5.16	62	2428967	204.20	ug/L	99
5) Bromomethane	5.78	94	1343422	254.94	ug/L	99
6) Chloroethane	5.98	64	1199344	188.24	ug/L	98
7) Trichlorofluoromethane	6.79	101	1701514	191.01	ug/L	99
8) Acetone	6.94	43	201529	Below Cal		100
9) Iodomethane	7.58	142	794173	192.50	ug/L	99
10) 1,1-Dichloroethene	7.52	96	920511	204.48	ug/L	96
11) Methylene chloride	7.71	84	1063508	178.73	ug/L	98
12) Freon 113	7.78	101	1079115	186.56	ug/L	99
13) Carbon disulfide	8.03	76	3312605	208.15	ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	187.33	ug/L	96
15) MTBE	8.74	73	1719756	183.97	ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	185.27	ug/L	99
17) Vinyl acetate	9.08	43	1660788	188.79	ug/L	100
18) 2-Butanone (MEK)	9.47	72	57153	189.53	ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	186.86	ug/L	98
20) Bromochloromethane	9.88	128	361702	169.90	ug/L	98
21) Chloroform	9.93	83	1746080	185.86	ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	184.71	ug/L	99
24) 1,2-Dichloroethane	10.78	62	1056987	189.77	ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	1325051	188.58	ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.90	ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	197.81	ug/L	100
29) Benzene	11.45	78	4061777	193.23	ug/L	100
30) Dibromomethane	12.17	93	461244	183.97	ug/L	99
31) 1,2-Dichloropropane	12.21	63	1126863	191.52	ug/L	99
32) Trichloroethene	12.27	95	1022222	192.97	ug/L	99
33) Bromodichloromethane	12.33	83	1217593	196.24	ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	120.61	ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	1495017	199.81	ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	183.63	ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.49	ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	187.01	ug/L	98
40) Toluene	14.22	92	2368495	201.40	ug/L	100
42) 1,3-Dichloropropane	14.28	76	1107954	189.75	ug/L	100

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

M 3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

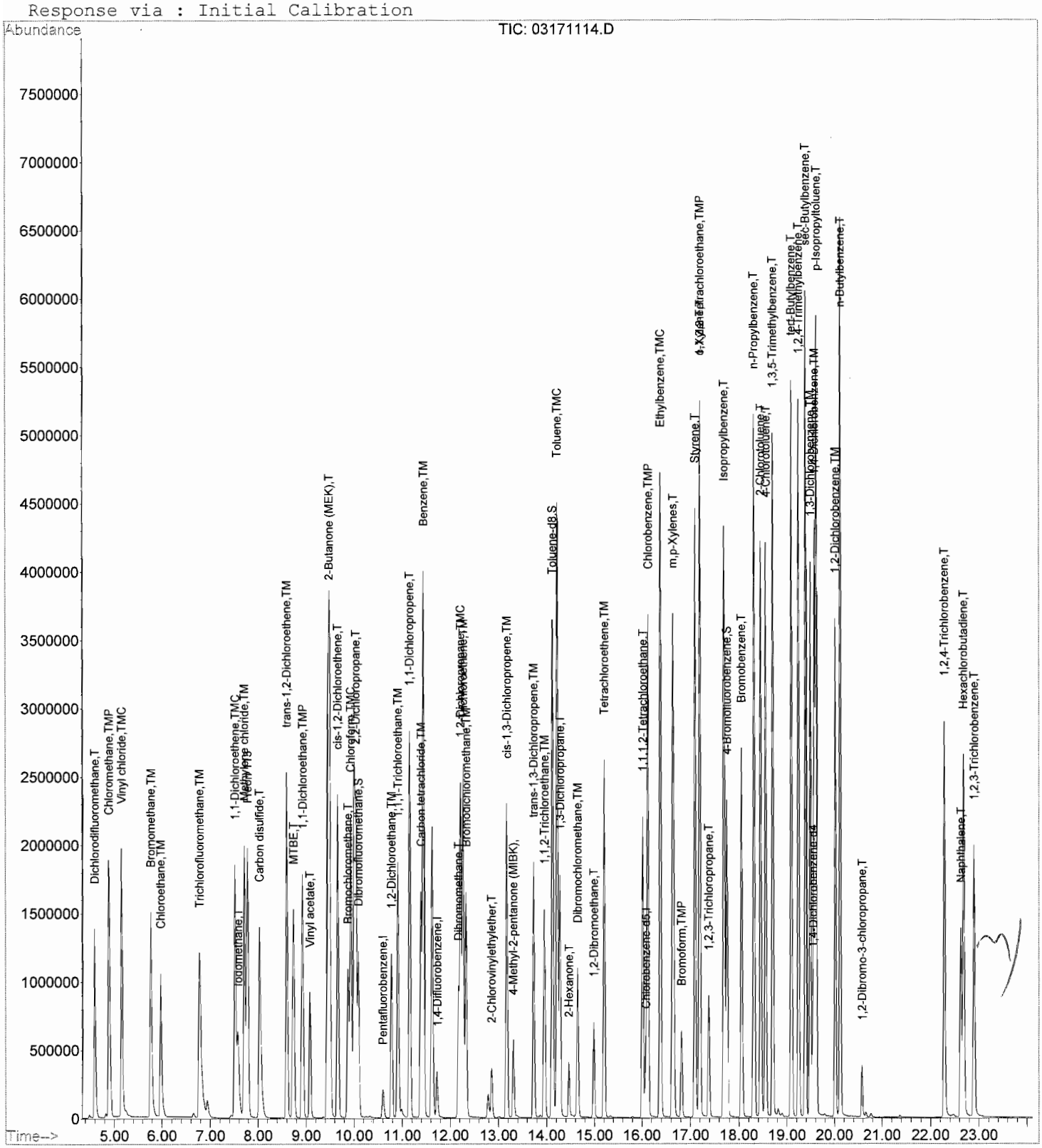
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.46	43	396743	196.91 ug/L #	97
44)	Dibromochloromethane	14.65	129	686033	204.44 ug/L	100
45)	1,2-Dibromoethane	14.99	107	575405	202.00 ug/L	99
46)	Tetrachloroethene	15.20	166	914229	199.99 ug/L	99
47)	1,1,1,2-Tetrachloroethane	16.02	131	755965	207.25 ug/L	99
48)	Chlorobenzene	16.13	112	2393108	199.20 ug/L	97
49)	Ethylbenzene	16.38	91	4465000	201.54 ug/L	98
50)	m,p-Xylenes	16.64	106	1550944	198.56 ug/L	99
51)	Styrene	17.10	104	2561762	213.16 ug/L	99
52)	o-Xylene	17.20	106	1517247	200.97 ug/L	100
55)	Bromoform	16.82	173	364089	189.30 ug/L	97
56)	1,1,2,2-Tetrachloroethane	17.19	83	656346	164.64 ug/L	99
57)	1,2,3-Trichloropropane	17.38	110	155202	182.01 ug/L	98
58)	Isopropylbenzene	17.70	105	3655213	171.73 ug/L	99
59)	Bromobenzene	18.05	156	865850	180.23 ug/L	97
60)	n-Propylbenzene	18.31	91	5305462	176.46 ug/L	99
61)	2-Chlorotoluene	18.45	91	3128722	180.76 ug/L	99
62)	4-Chlorotoluene	18.56	91	3203621	185.25 ug/L	98
63)	1,3,5-Trimethylbenzene	18.70	105	3485140	192.28 ug/L	99
64)	tert-Butylbenzene	19.09	119	2997423	192.66 ug/L	99
65)	1,2,4-Trimethylbenzene	19.24	105	3435108	186.05 ug/L	97
66)	sec-Butylbenzene	19.39	105	5038432	190.46 ug/L	100
67)	1,3-Dichlorobenzene	19.49	146	1885851	191.15 ug/L	99
68)	1,4-Dichlorobenzene	19.57	146	1902798	192.79 ug/L	99
69)	p-Isopropyltoluene	19.61	119	4021709	195.79 ug/L	99
70)	1,2-Dichlorobenzene	20.02	146	1645465	197.15 ug/L	100
71)	n-Butylbenzene	20.12	91	4374192	192.47 ug/L	98
72)	1,2-Dibromo-3-chloropropan	20.58	157	102361	195.71 ug/L	97
73)	1,2,4-Trichlorobenzene	22.28	180	1107731	186.75 ug/L	98
74)	Naphthalene	22.63	128	1413680	187.19 ug/L	100
75)	Hexachlorobutadiene	22.69	225	688401	212.10 ug/L	100
76)	1,2,3-Trichlorobenzene	22.90	180	830638	168.55 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



NEW8260-CCV

Data File Name	03171115.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031711\
Operator	LC
Date Acquired	3/17/2011 1:50
Acq. Method File	8260B
Sample Name	SS
Instrument Name	GCMS7

Internal Standard	Target Response	CCV Response	Low	High	T/F
Pentafluorobenzene	204788	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	354603	291205	145602.5	582410	TRUE
Chlorobenzene-d5	296499	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	131216	112264	56132	224528	TRUE

Name	Amount	Spike Amount	% REC	Low	High	T/F	
Dichlorodifluoromethane	21.34	25.00	85.36	60	150	TRUE	
Chloromethane	20.19	25.00	80.77	60	140	TRUE	
Vinyl chloride	21.98	25.00	87.90	80	120	TRUE	CCC
Bromomethane	21.20	25.00	84.79	70	140	TRUE	
Chloroethane	21.91	25.00	87.64	70	130	TRUE	
Trichlorofluoromethane	25.44	25.00	101.76	70	150	TRUE	
Acetone	32.58	25.00	130.32	10	150	TRUE	
Iodomethane	30.91	25.00	123.66	70	140	TRUE	
1,1-Dichloroethene	24.98	25.00	99.91	80	120	TRUE	CCC
Methylene chloride	24.09	25.00	96.37	70	120	TRUE	
Freon 113	24.00	25.00	95.98	60	140	TRUE	
Carbon disulfide	25.08	25.00	100.31	70	130	TRUE	
trans-1,2-Dichloroethene	21.70	25.00	86.79	80	120	TRUE	
MTBE	20.73	25.00	82.90	70	130	TRUE	
1,1-Dichloroethane	20.79	25.00	83.16	70	125	TRUE	
Vinyl acetate	26.90	25.00	107.60	40	150	TRUE	
2-Butanone (MEK)	24.92	25.00	99.67	40	150	TRUE	
cis-1,2-Dichloroethene	20.20	25.00	80.78	80	120	TRUE	
Bromochloromethane	21.09	25.00	84.35	80	120	TRUE	
Chloroform	20.32	25.00	81.28	80	120	TRUE	CCC
2,2-Dichloropropane	21.15	25.00	84.60	80	130	TRUE	
Dibromofluoromethane	**21.57**	**25.00**	**86.27**	**80**	**120**	TRUE	
1,2-Dichloroethane	20.57	25.00	82.26	75	130	TRUE	
1,1,1-Trichloroethane	21.81	25.00	87.23	80	120	TRUE	
1,1-Dichloropropene	22.05	25.00	88.19	80	120	TRUE	
Carbon tetrachloride	22.49	25.00	89.96	80	130	TRUE	
Benzene	21.24	25.00	84.94	80	120	TRUE	
Dibromomethane	22.05	25.00	88.19	80	120	TRUE	
1,2-Dichloropropane	21.44	25.00	85.74	80	120	TRUE	CCC
Trichloroethene	21.49	25.00	85.98	80	120	TRUE	
Bromodichloromethane	21.49	25.00	85.95	80	120	TRUE	
2-Chlorovinylethylether	33.03	25.00	132.10	70	135	TRUE	
cis-1,3-Dichloropropene	21.67	25.00	86.67	80	120	TRUE	
4-Methyl-2-pentanone (MIB	23.62	25.00	94.48	60	130	TRUE	
trans-1,3-Dichloropropene	22.74	25.00	90.94	80	125	TRUE	

LC 03/18/11

1,1,2-Trichloroethane	22.20	25.00	88.81	80	120	TRUE	
Toluene-d8	**21.91**	**25.00**	**87.66**	**80**	**120**	TRUE	
Toluene	21.78	25.00	87.14	80	120	TRUE	CCC
1,3-Dichloropropane	21.05	25.00	84.20	80	120	TRUE	
2-Hexanone	25.08	25.00	100.33	20	150	TRUE	
Dibromochloromethane	21.71	25.00	86.84	80	120	TRUE	
1,2-Dibromoethane	22.31	25.00	89.25	80	120	TRUE	
Tetrachloroethene	22.09	25.00	88.37	70	130	TRUE	
1,1,1,2-Tetrachloroethane	21.46	25.00	85.82	80	120	TRUE	
Chlorobenzene	21.76	25.00	87.05	80	120	TRUE	
Ethylbenzene	21.51	25.00	86.06	80	120	TRUE	CCC
m,p-Xylenes	21.31	25.00	85.25	60	140	TRUE	
Styrene	23.00	25.00	92.00	80	120	TRUE	
o-Xylene	20.70	25.00	82.81	80	120	TRUE	
4-Bromofluorobenzene	**20.94**	**25.00**	**83.76**	**80**	**120**	TRUE	
Bromoform	24.45	25.00	97.79	80	120	TRUE	
1,1,2,2-Tetrachloroethane	23.28	25.00	93.12	80	120	TRUE	
1,2,3-Trichloropropane	23.38	25.00	93.50	70	130	TRUE	
Isopropylbenzene	25.73	25.00	102.90	80	130	TRUE	
Bromobenzene	24.00	25.00	96.00	80	120	TRUE	
n-Propylbenzene	24.01	25.00	96.04	75	130	TRUE	
2-Chlorotoluene	22.31	25.00	89.23	80	120	TRUE	
4-Chlorotoluene	23.19	25.00	92.75	80	120	TRUE	
1,3,5-Trimethylbenzene	23.39	25.00	93.56	80	130	TRUE	
tert-Butylbenzene	23.30	25.00	93.19	80	120	TRUE	
1,2,4-Trimethylbenzene	23.52	25.00	94.06	80	120	TRUE	
sec-Butylbenzene	22.94	25.00	91.76	80	125	TRUE	
1,3-Dichlorobenzene	22.83	25.00	91.30	80	120	TRUE	
1,4-Dichlorobenzene	22.81	25.00	91.26	80	120	TRUE	
p-Isopropyltoluene	23.58	25.00	94.31	80	130	TRUE	
1,2-Dichlorobenzene	22.83	25.00	91.31	80	120	TRUE	
n-Butylbenzene	23.80	25.00	95.22	80	130	TRUE	
1,2-Dibromo-3-chloropropa	24.52	25.00	98.10	50	150	TRUE	
1,2,4-Trichlorobenzene	25.88	25.00	103.53	50	150	TRUE	
Naphthalene	30.38	25.00	121.52	40	150	TRUE	
Hexachlorobutadiene	24.16	25.00	96.62	40	150	TRUE	
1,2,3-Trichlorobenzene	25.60	25.00	102.42	60	140	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	204788	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	354603	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	296499	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131216	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	111142	21.57 ug/L	0.00
Spiked Amount 25.000			Recovery =	86.28%	
39) Toluene-d8	14.12	98	391936	21.91 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.64%	
53) 4-Bromofluorobenzene	17.75	95	136070	20.94 ug/L	0.00
Spiked Amount 25.000			Recovery =	83.76%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.61	85	206452	21.34 ug/L	99
3) Chloromethane	4.90	50	322987	20.19 ug/L	98
4) Vinyl chloride	5.19	62	312968	21.98 ug/L	100
5) Bromomethane	5.78	94	156914	21.20 ug/L	98
6) Chloroethane	5.99	64	165417	21.91 ug/L	99
7) Trichlorofluoromethane	6.79	101	251907	25.44 ug/L	99
8) Acetone	6.94	43	38773	32.58 ug/L	98
9) Iodomethane	7.58	142	141683	30.91 ug/L	98
10) 1,1-Dichloroethene	7.52	96	144273	24.98 ug/L	98
11) Methylene chloride	7.72	84	163712	24.09 ug/L	99
12) Freon 113	7.78	101	164091	24.00 ug/L	99
13) Carbon disulfide	8.04	76	515335	25.08 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	138660	21.70 ug/L	94
15) MTBE	8.75	73	226347	20.73 ug/L	99
16) 1,1-Dichloroethane	8.92	63	277166	20.79 ug/L	99
17) Vinyl acetate	9.08	43	278544	26.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7971	24.92 ug/L	55
19) cis-1,2-Dichloroethene	9.67	96	133655	20.20 ug/L	99
20) Bromochloromethane	9.88	128	51073	21.09 ug/L	97
21) Chloroform	9.94	83	223530	20.32 ug/L	99
22) 2,2-Dichloropropane	10.04	77	188645	21.15 ug/L	97
24) 1,2-Dichloroethane	10.78	62	138066	20.57 ug/L	100
25) 1,1,1-Trichloroethane	10.92	97	172274	21.81 ug/L	97
27) 1,1-Dichloropropene	11.15	75	200126	22.05 ug/L	99
28) Carbon tetrachloride	11.39	117	140957	22.49 ug/L	99
29) Benzene	11.44	78	515367	21.24 ug/L	100
30) Dibromomethane	12.18	93	63306	22.05 ug/L	98
31) 1,2-Dichloropropane	12.22	63	145297	21.44 ug/L	100
32) Trichloroethene	12.27	95	130435	21.49 ug/L	100
33) Bromodichloromethane	12.34	83	153079	21.49 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	40803	33.03 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	187370	21.67 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	83668	23.62 ug/L	99
37) trans-1,3-Dichloropropene	13.74	75	151736	22.74 ug/L	100
38) 1,1,2-Trichloroethane	13.96	83	71241	22.20 ug/L	98
40) Toluene	14.22	92	300558	21.78 ug/L	97
42) 1,3-Dichloropropane	14.27	76	141234	21.05 ug/L	96

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

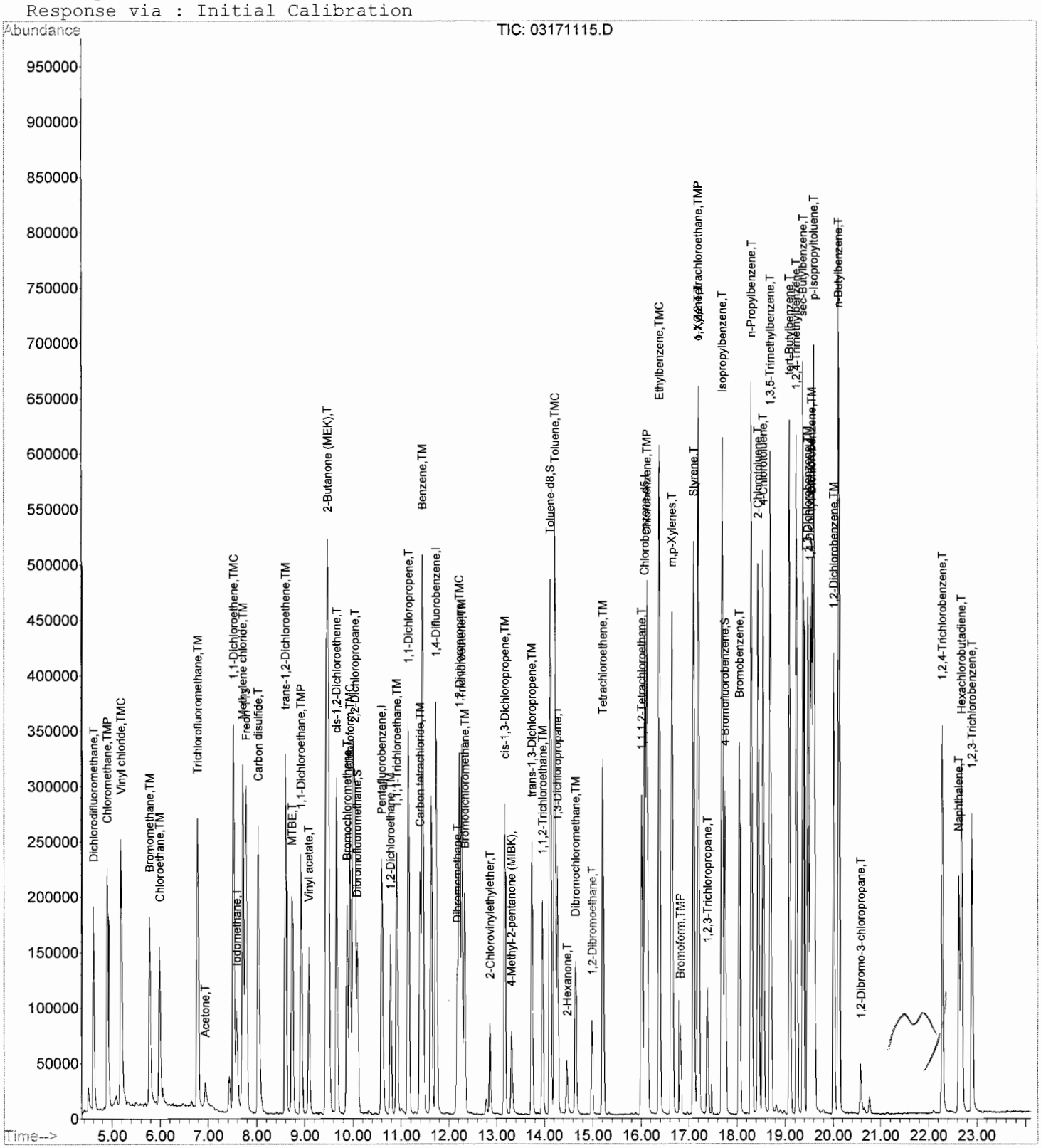
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	56108	25.08 ug/L #	94
44) Dibromochloromethane	14.65	129	87587	21.71 ug/L	95
45) 1,2-Dibromoethane	14.99	107	75157	22.31 ug/L	99
46) Tetrachloroethene	15.21	166	117481	22.09 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	94210	21.46 ug/L	97
48) Chlorobenzene	16.12	112	303242	21.76 ug/L	99
49) Ethylbenzene	16.38	91	564816	21.51 ug/L	100
50) m,p-Xylenes	16.65	106	195974	21.31 ug/L	98
51) Styrene	17.10	104	320734	23.00 ug/L	98
52) o-Xylene	17.19	106	185035	20.70 ug/L	99
55) Bromoform	16.81	173	46447	24.45 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.19	83	89438	23.28 ug/L	100
57) 1,2,3-Trichloropropane	17.39	110	19539	23.38 ug/L	94
58) Isopropylbenzene	17.70	105	516912	25.73 ug/L	100
59) Bromobenzene	18.06	156	111249	24.00 ug/L	99
60) n-Propylbenzene	18.31	91	688724	24.01 ug/L	100
61) 2-Chlorotoluene	18.45	91	374880	22.31 ug/L	100
62) 4-Chlorotoluene	18.55	91	386272	23.19 ug/L	98
63) 1,3,5-Trimethylbenzene	18.71	105	406096	23.39 ug/L	100
64) tert-Butylbenzene	19.10	119	344368	23.30 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	410391	23.52 ug/L	99
66) sec-Butylbenzene	19.38	105	581187	22.94 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	215599	22.83 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	216972	22.81 ug/L	99
69) p-Isopropyltoluene	19.61	119	456572	23.58 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	187538	22.83 ug/L	99
71) n-Butylbenzene	20.12	91	513084	23.80 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	12556	24.52 ug/L	96
73) 1,2,4-Trichlorobenzene	22.29	180	137336	25.88 ug/L	99
74) Naphthalene	22.63	128	213772	30.38 ug/L	100
75) Hexachlorobutadiene	22.69	225	81857	24.16 ug/L	98
76) 1,2,3-Trichlorobenzene	22.90	180	110762	25.60 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



8260AZ - Vapor Analysis
1 PPMV Tertiary Standard

3/17/2011

ppmv	Mol Wt.	ug/L
1	260.76	10.80

* Compound not in the standard mix

Conversion Calculation: ug/L=ppmv (MW*P)/(R*T)

R=Gas Constant(0.08206 l*atm/(mol*K)) MW=Molecular Weight

T=Temp in Degree K (21+273.15) P=Pressure in atm

Assume Temp in C of 21 (70 degrees F)

Compound	Molecular Weight	Expected Value (ug/L)	Actual Value (ug/L)	% Recovery
Dichlorodifluoromethane	120.91	5.01	6.05	121
Chloromethane	50.49	2.09	2.13	102
Vinyl Chloride	62.5	2.59	2.49	96
Bromomethane	94.94	3.93	1.91	49
Chloroethane	64.52	2.67	2.56	96
Trichlorofluoromethane	137.37	5.69	5.99	105
Acetone *				
Iodomethane *				
1,1-Dichloroethene	96.94	4.02	3.55	88
Methylene Chloride	84.93	3.52	3.35	95
Carbon Disulfide *				
trans-1,2-DCE *				
MTBE *				
1,1-Dichloroethane	98.96	4.10	3.37	82
Vinyl Acetate *				
2-Butanone *				
cis-1,2-DCE	96.94	4.02	3.41	85
Bromochloromethane *				
Chloroform	119.38	4.95	3.92	79
2,2-Dichloropropane *				
1,2-DCA	98.96	4.10	3.33	81
1,1,1-Trichloroethane	133.41	5.53	4.69	85
1,1-Dichloropropene *				
Carbon Tetrachloride	153.82	6.37	5.34	84
Benzene	78.11	3.24	2.68	83
Dibromomethane *				
1,2-Dichloropropane	112.99	4.68	3.9	83
Trichloroethene	131.39	5.44	4.59	84
Bromodichloromethane *				
2-CEVE *				
cis-1,3-Dichloropropene	110.97	4.60	3.55	77
4-Methyl-2-Pentanone *				
trans-1,3-Dichloropropene	110.97	4.60	3.53	77
1,1,2-Trichloroethane	133.41	5.53	4.56	82
Toluene	92.14	3.82	3.16	83
1,3-Dichloropropane *				

01

M 3/17/11

LC 03/18/11

2-Hexanone *				
Dibromochloromethane *				
1,2-Dibromoethane	**187.86**	**7.78**	**6.53**	**84**
Tetrachloroethene	**165.83**	**6.87**	**5.59**	**81**
1,1,1,2-Tetrachloroethane *				
Chlorobenzene	**112.56**	**4.66**	**3.59**	**77**
Ethylbenzene	**106.16**	**4.40**	**3.45**	**78**
m,p-Xylenes	**212.36**	**8.80**	**6.85**	**78**
Styrene	**104.16**	**4.31**	**3.37**	**78**
o-Xylene	**106.18**	**4.40**	**3.51**	**80**
1,1,2,2-Tetrachloroethane	**133.41**	**5.53**	**5.91**	**107**
1,2,3-Trichloropropane *				
Isopropylbenzene *				
Bromobenzene *				
n-Propylbenzene *				
2-Chlorotoluene *				
4-Chlorotoluene *				
1,3,5-Trimethylbenzene	**120.19**	**4.98**	**4.09**	**82**
tert-butylbenzene *				
1,2,4-Trimethylbenzene	**120.19**	**4.98**	**4.11**	**83**
sec-butylbenzene *				
1,3-Dichlorobenzene	**147**	**6.09**	**4.85**	**80**
1,4-Dichlorobenzene	**147**	**6.09**	**4.73**	**78**
p-Isopropyltoluene *				
1,2-Dichlorobenzene	**147**	**6.09**	**5.01**	**82**
n-Butylbenzene *				
1,2-Dibromo-3-chloropropane *				
1,2,4-Trichlorobenzene	**181.46**	**7.52**	**5.44**	**72**
Naphthalene *				
Hexachlorobutadiene	**260.76**	**10.80**	**8.7**	**81**
1,2,3-Trichlorobenzene *				

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	201057	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.74	114	351105	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	292717	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	134120	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	108706	21.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.96%	
39) Toluene-d8	14.12	98	384321	21.70 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.80%	
53) 4-Bromofluorobenzene	17.76	95	132578	20.67 ug/L	0.00
Spiked Amount 25.000			Recovery	= 82.68%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	57530	6.06 ug/L	95
3) Chloromethane	4.90	50	33468	2.13 ug/L	98
4) Vinyl chloride	5.19	62	34821	2.49 ug/L	96
5) Bromomethane	5.78	94	12125	1.91 ug/L	94
6) Chloroethane	5.99	64	18973	2.56 ug/L	90
7) Trichlorofluoromethane	6.79	101	58222	5.99 ug/L	100
8) Acetone	6.94	43	1602	Below Cal #	85
9) Iodomethane	7.57	142	6053	1.47 ug/L	91
10) 1,1-Dichloroethene	7.52	96	20124	3.55 ug/L	97
11) Methylene chloride	7.72	84	22344	3.35 ug/L	90
12) Freon 113	7.78	101	41757	6.22 ug/L	97
13) Carbon disulfide	8.03	76	10613	0.53 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	558	0.09 ug/L #	60
15) MTBE	8.75	73	153	0.01 ug/L #	50
16) 1,1-Dichloroethane	8.93	63	44110	3.37 ug/L	99
17) Vinyl acetate	9.09	43	405	0.04 ug/L #	83
18) 2-Butanone (MEK)	9.66	72	117	1.25 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	22148	3.41 ug/L	96
20) Bromochloromethane	0.00	128	0	N.D.	
21) Chloroform	9.94	83	42350	3.92 ug/L	98
22) 2,2-Dichloropropane	0.00	77	0	N.D.	
24) 1,2-Dichloroethane	10.78	62	21923	3.33 ug/L	96
25) 1,1,1-Trichloroethane	10.92	97	36411	4.69 ug/L	98
27) 1,1-Dichloropropene	0.00	75	0	N.D.	
28) Carbon tetrachloride	11.40	117	33155	5.34 ug/L	97
29) Benzene	11.45	78	64449	2.68 ug/L	98
30) Dibromomethane	0.00	93	0	N.D.	
31) 1,2-Dichloropropane	12.22	63	26155	3.90 ug/L	99
32) Trichloroethene	12.28	95	27561	4.59 ug/L	97
33) Bromodichloromethane	12.29	83	154	0.02 ug/L #	25
34) 2-Chlorovinylethylether	0.00	63	0	N.D.	
35) cis-1,3-Dichloropropene	13.17	75	30363	3.55 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.33	43	274	0.08 ug/L #	50
37) trans-1,3-Dichloropropene	13.74	75	23347	3.53 ug/L	98
38) 1,1,2-Trichloroethane	13.96	83	14497	4.56 ug/L	99
40) Toluene	14.22	92	43103	3.16 ug/L	96
42) 1,3-Dichloropropane	14.21	76	285	0.04 ug/L #	44

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

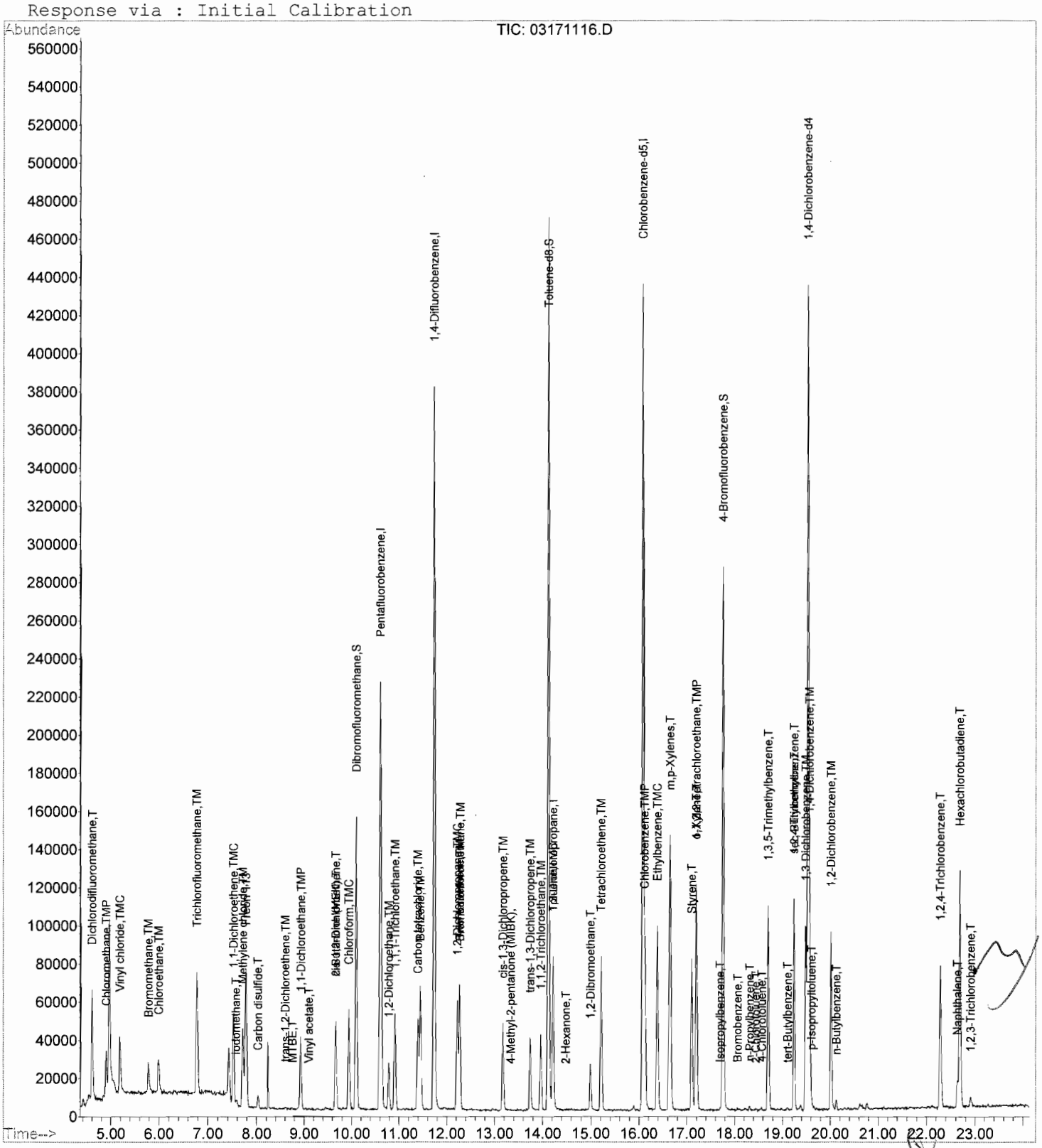
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	136	0.06 ug/L #	29
44) Dibromochloromethane	0.00	129	0	N.D.	
45) 1,2-Dibromoethane	14.99	107	21706	6.53 ug/L	99
46) Tetrachloroethene	15.21	166	29329	5.59 ug/L	99
47) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	
48) Chlorobenzene	16.12	112	49412	3.59 ug/L	98
49) Ethylbenzene	16.38	91	89509	3.45 ug/L	99
50) m,p-Xylenes	16.64	106	62191	6.85 ug/L	100
51) Styrene	17.10	104	46398	3.37 ug/L	97
52) o-Xylene	17.19	106	30948	3.51 ug/L	97
55) Bromoform	0.00	173	0	N.D.	
56) 1,1,2,2-Tetrachloroethane	17.19	83	23190	5.91 ug/L	95
57) 1,2,3-Trichloropropane	0.00	110	0	N.D.	
58) Isopropylbenzene	17.70	105	1070	0.05 ug/L #	51
59) Bromobenzene	18.06	156	141	0.03 ug/L #	43
60) n-Propylbenzene	18.32	91	1826	0.06 ug/L #	90
61) 2-Chlorotoluene	18.45	91	787	0.05 ug/L #	44
62) 4-Chlorotoluene	18.56	91	1213	0.07 ug/L #	65
63) 1,3,5-Trimethylbenzene	18.71	105	72087	4.06 ug/L	98
64) tert-Butylbenzene	19.09	119	908	0.06 ug/L #	76
65) 1,2,4-Trimethylbenzene	19.24	105	73403	4.11 ug/L	99
66) sec-Butylbenzene	19.24	105	73403	2.83 ug/L #	61
67) 1,3-Dichlorobenzene	19.49	146	46821	4.85 ug/L	100
68) 1,4-Dichlorobenzene	19.58	146	46004	4.73 ug/L	97
69) p-Isopropyltoluene	19.62	119	1222	0.06 ug/L #	89
70) 1,2-Dichlorobenzene	20.02	146	42108	5.01 ug/L	98
71) n-Butylbenzene	20.13	91	3423	0.16 ug/L	97
72) 1,2-Dibromo-3-chloropropan	0.00	157	0	N.D.	
73) 1,2,4-Trichlorobenzene	22.29	180	29509	5.44 ug/L	99
74) Naphthalene	22.63	128	15881	2.21 ug/L	100
75) Hexachlorobutadiene	22.69	225	30129	8.70 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	2346	0.53 ug/L	95

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Re-Cal

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	22.71 ug/L	0.00
Spiked Amount 25.000			Recovery =	90.84%	
39) Toluene-d8	14.11	98	374753	21.71 ug/L	0.00
Spiked Amount 25.000			Recovery =	86.84%	
53) 4-Bromofluorobenzene	17.75	95	131653	21.33 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.32%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.12 ug/L LRL	98
5) Bromomethane	5.77	94	123	0.28 ug/L #	76
8) Acetone	6.93	43	3328	Below Cal #	67
13) Carbon disulfide	8.02	76	5282	0.27 ug/L	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	83
24) 1,2-Dichloroethane	10.60	62	1206	0.19 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.61 ug/L # INRT	68
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	29
74) Naphthalene	22.63	128	1667	0.24 ug/L	100

M 3/18/11

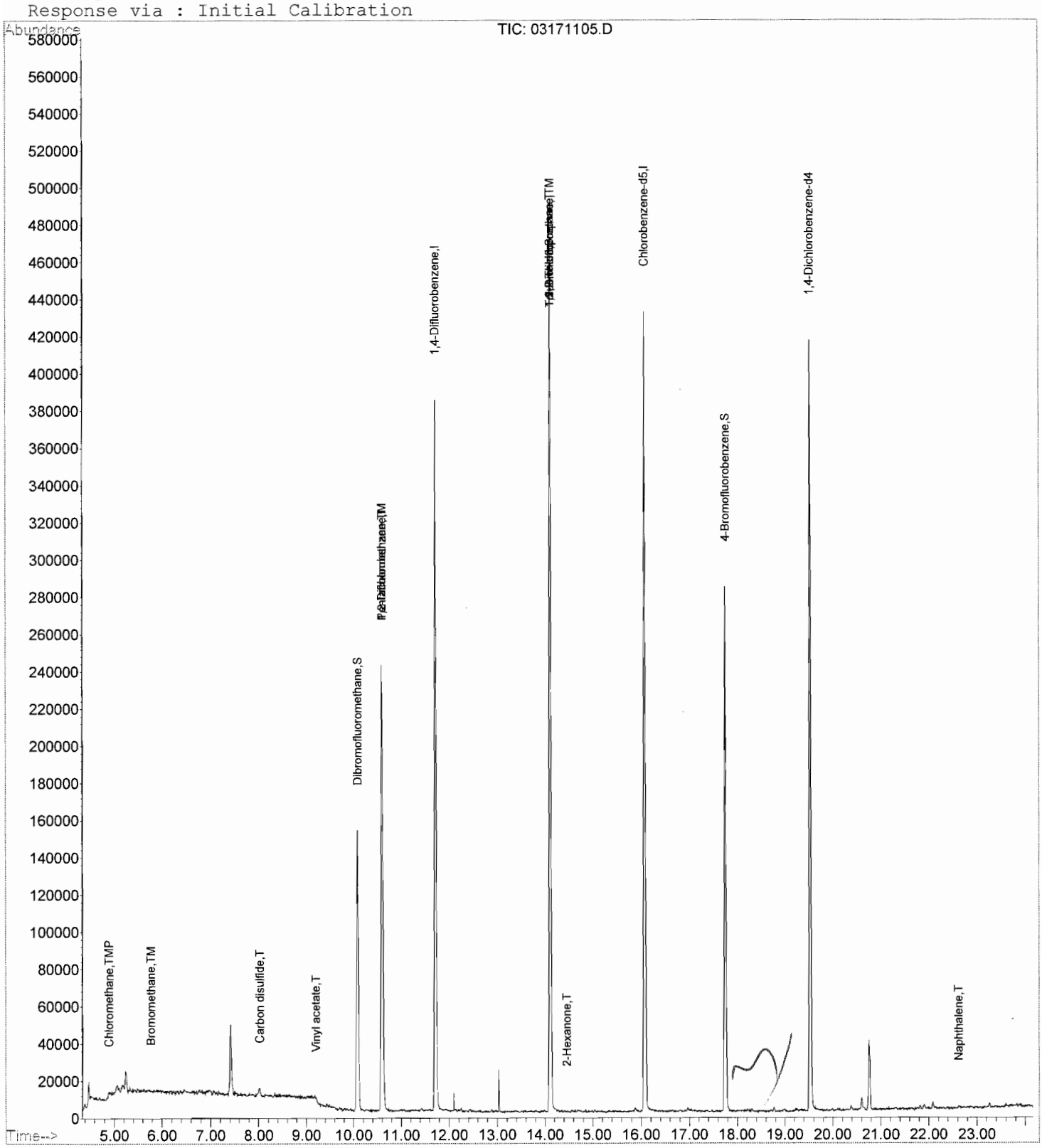
LC 03/18/11

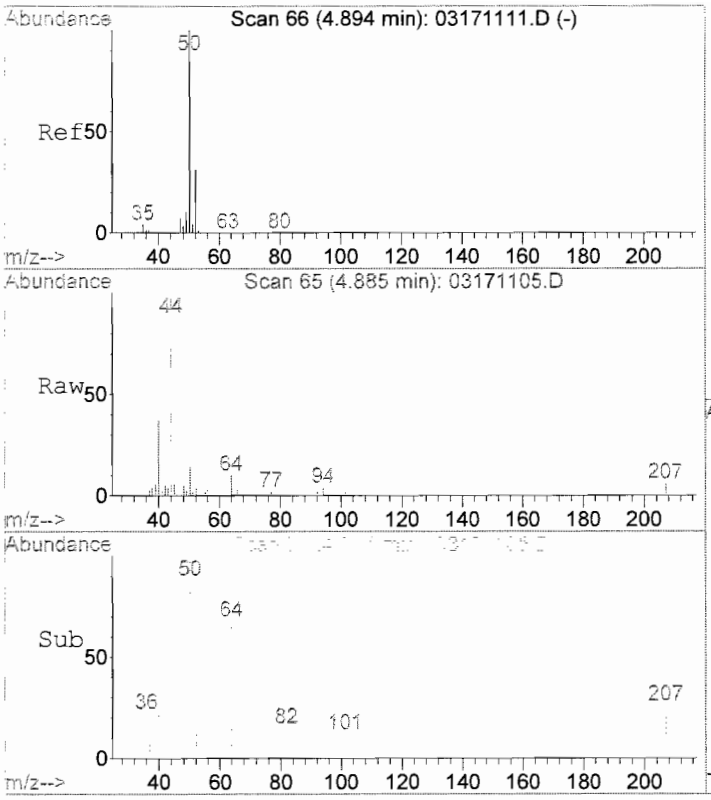
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

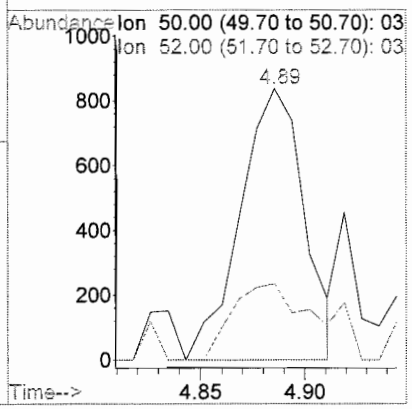


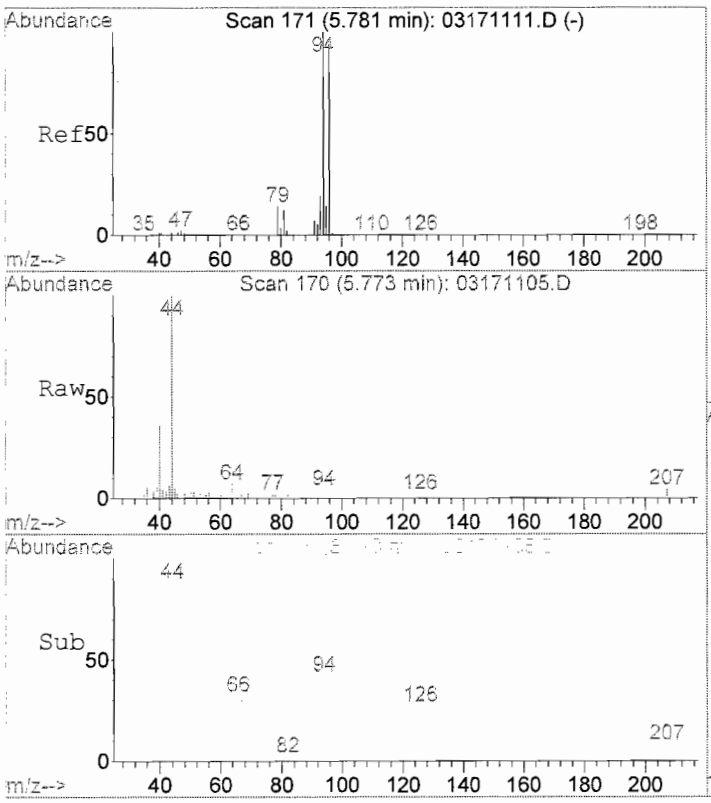


#3
Chloromethane
Concen: 0.12 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.1	37.7

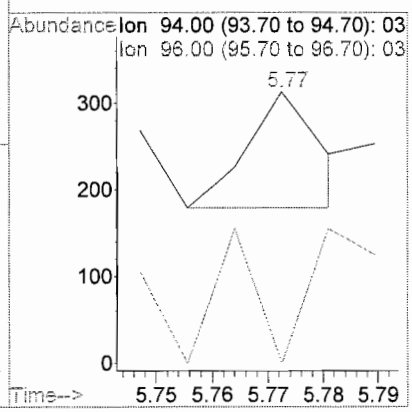


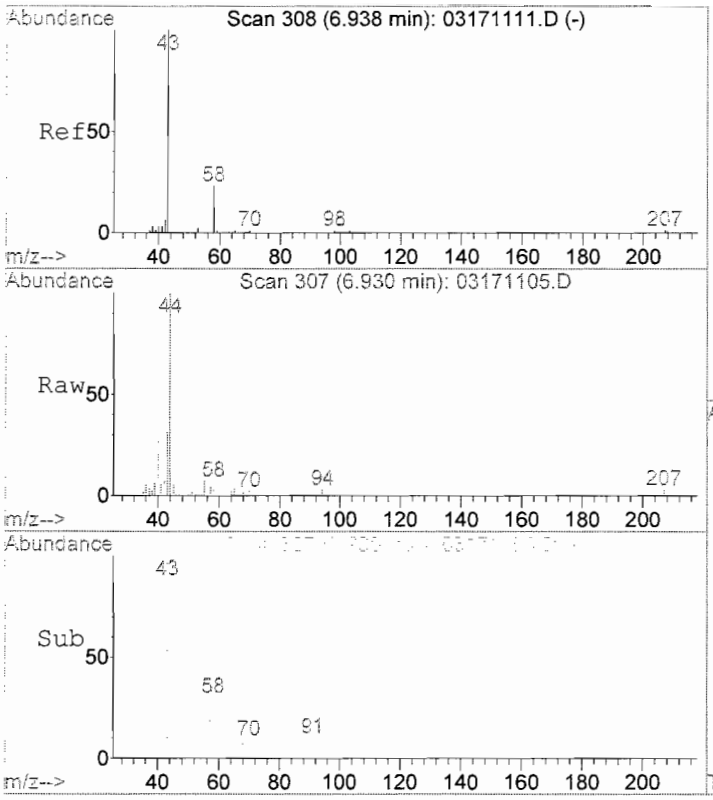


#5
Bromomethane
Concen: 0.28 ug/L
RT: 5.77 min Scan# 170
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 94 Resp: 123

Ion	Ratio	Lower	Upper
94	100		
96	115.4	74.0	111.0#

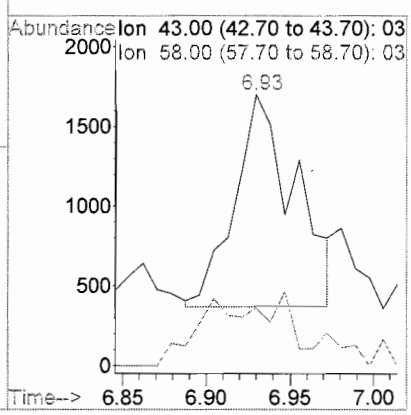


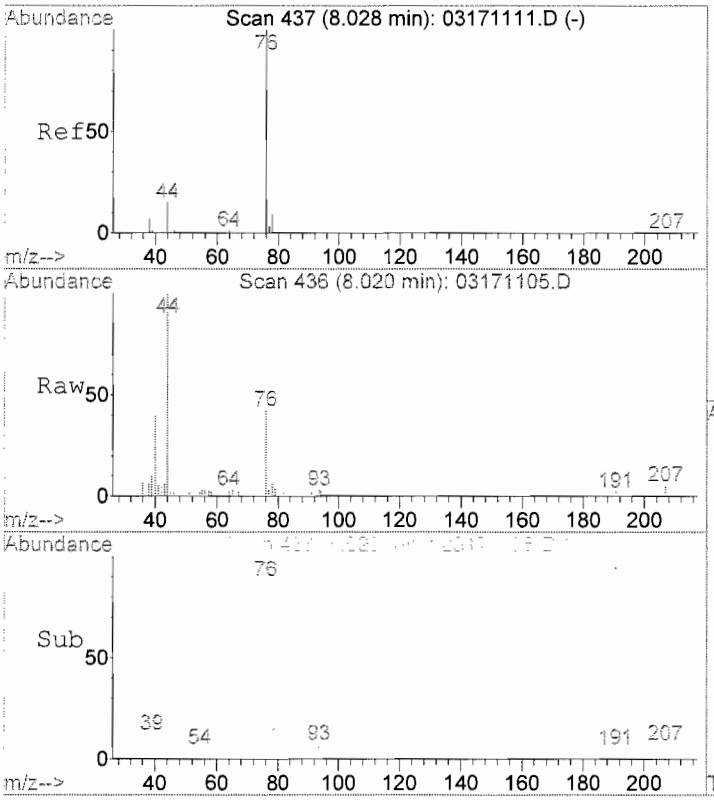


#8
Acetone
Concen: Below Cal
RT: 6.93 min Scan# 307
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

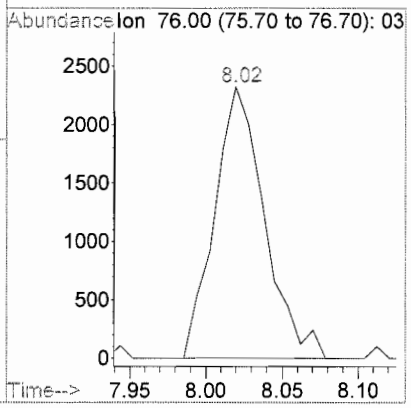
Ion	Ratio	Lower	Upper
43	100		
58	9.7	21.2	31.8#

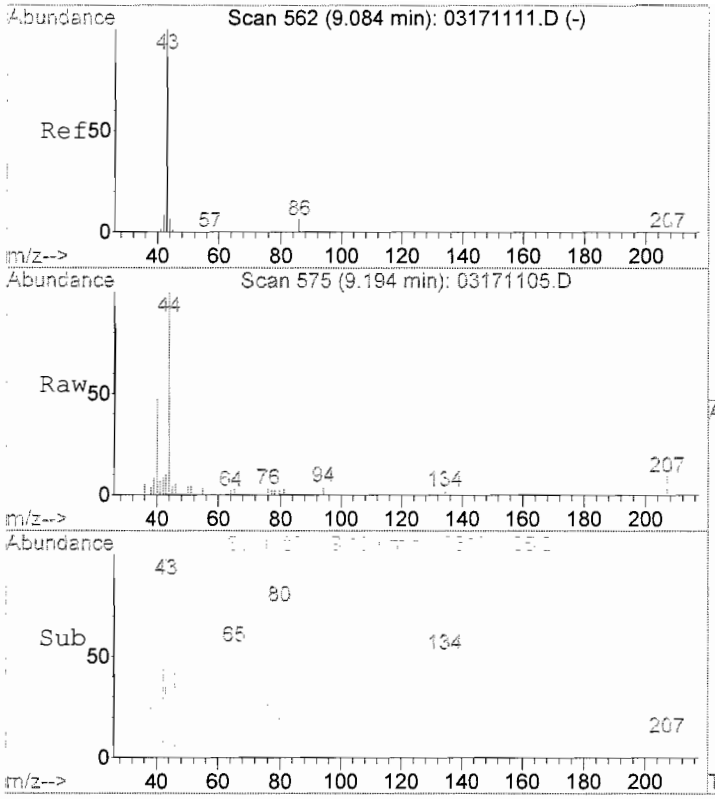




#13
Carbon disulfide
Concen: 0.27 ug/L
RT: 8.02 min Scan# 436
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 5282

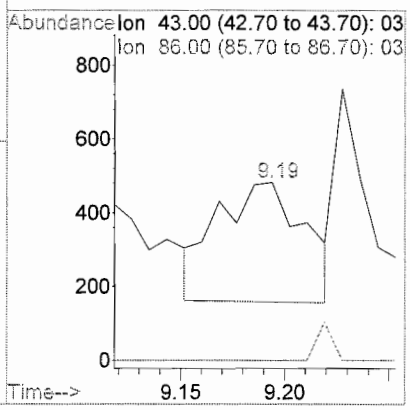


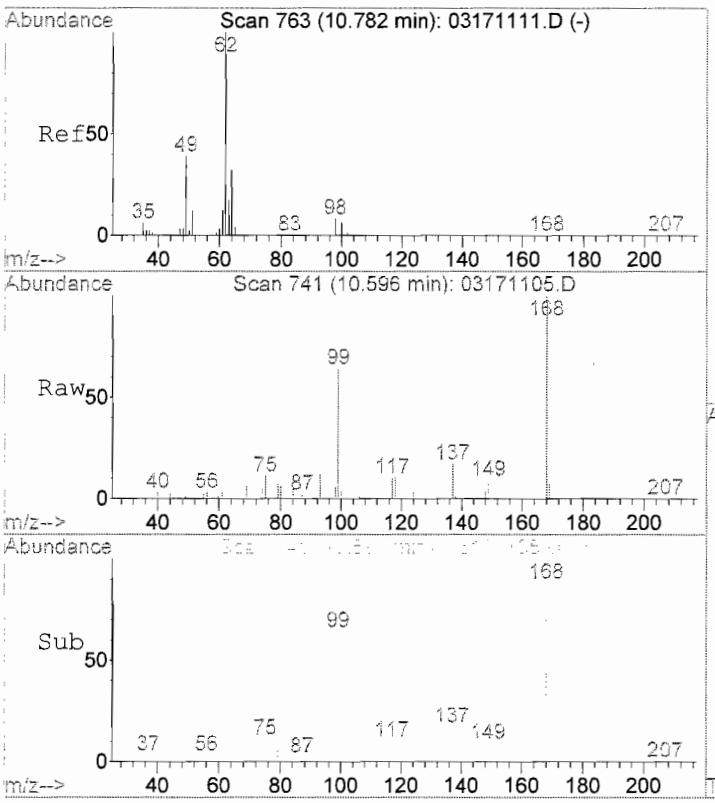


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#

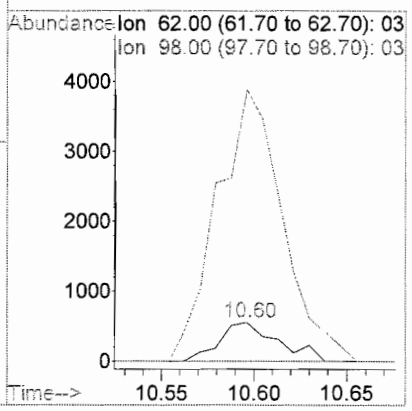


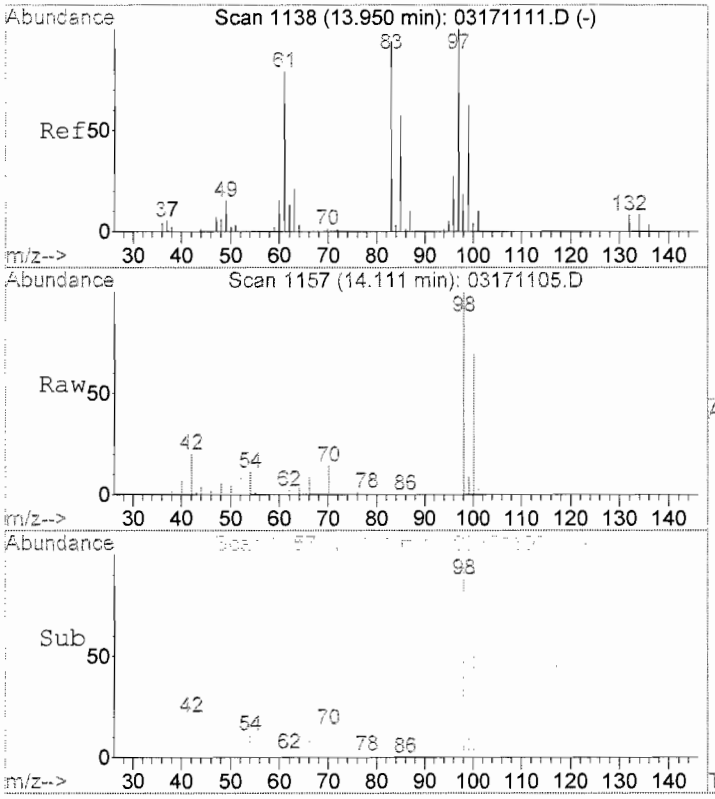


#24
1,2-Dichloroethane
Concen: 0.19 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	7.0	10.6#

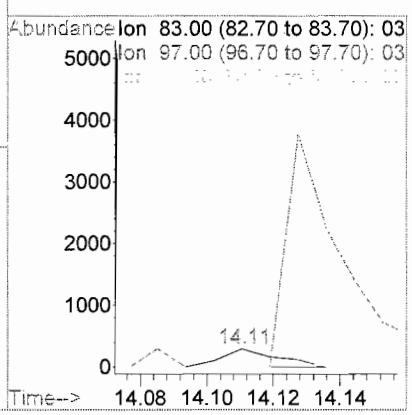


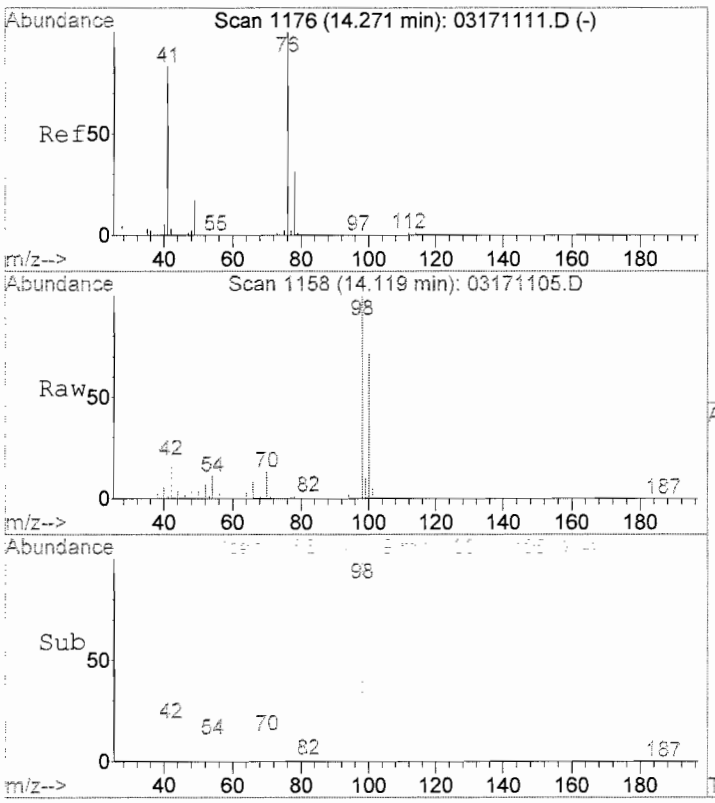


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	83.0	124.6#
85	0.0	51.3	76.9#



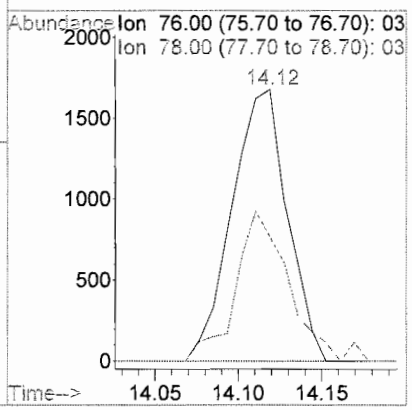


#42
1,3-Dichloropropane
Concen: 0.61 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.15 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

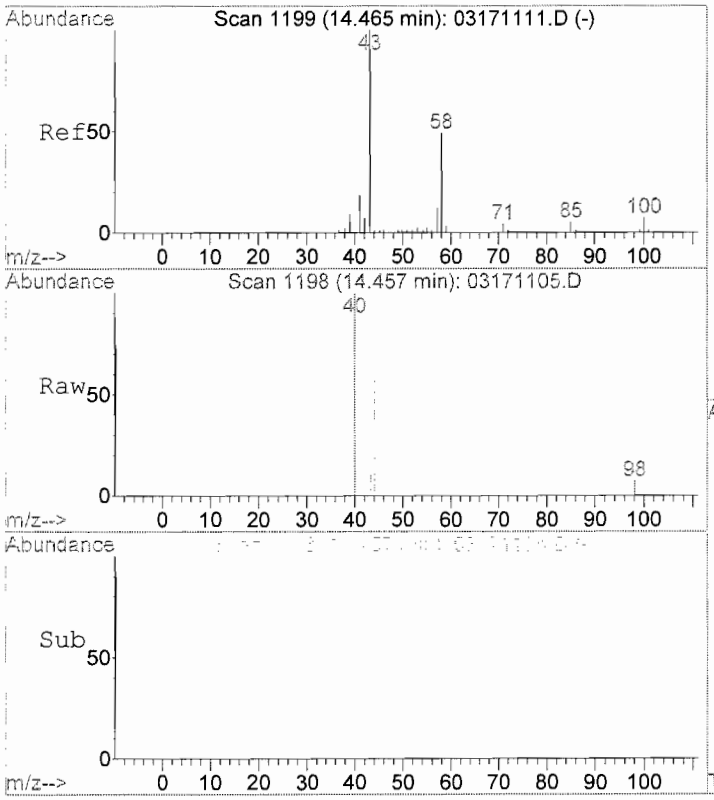
LORT

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	24.6	37.0#



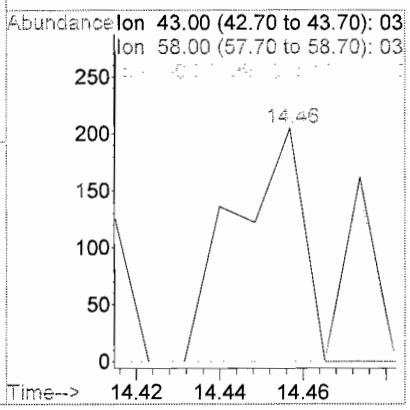
M LC

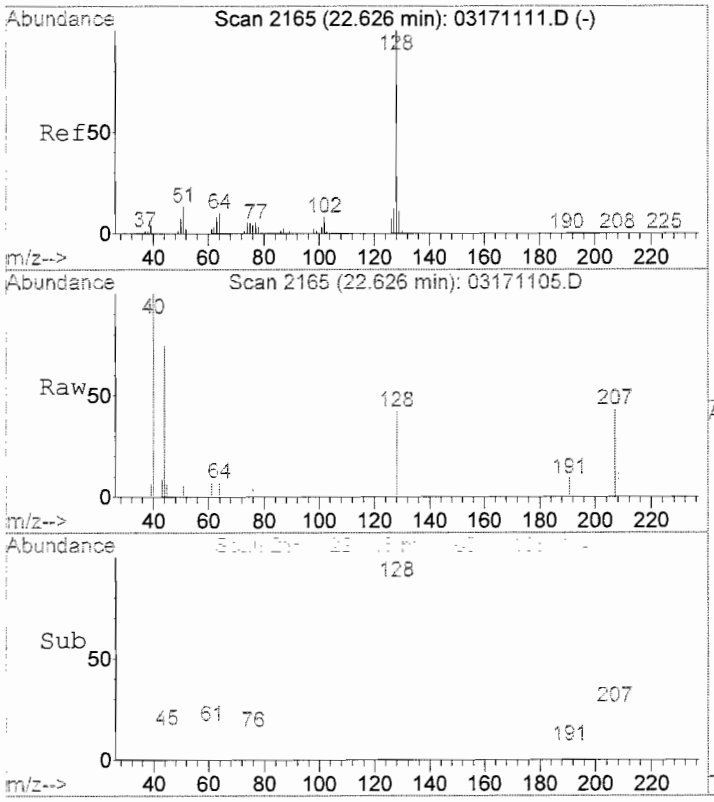


#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 235

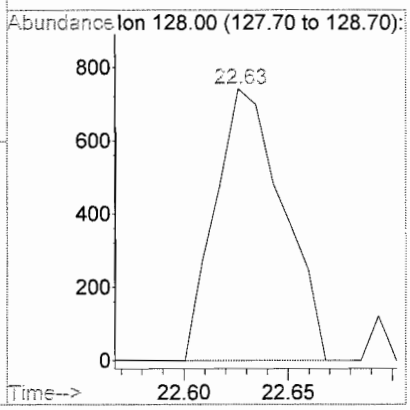
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.4#
100	0.0	0.0	0.0





#74
Naphthalene
Concen: 0.24 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion:128 Resp: 1667



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.36%	
39) Toluene-d8	14.12	98	8971	0.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.40%	
53) 4-Bromofluorobenzene	17.76	95	3244	0.61 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.44%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.54 ug/L #	90
3) Chloromethane	4.89	50	6587	0.50 ug/L	95
4) Vinyl chloride	5.18	62	6003	0.51 ug/L	90
5) Bromomethane	5.78	94	3084	0.76 ug/L	93
6) Chloroethane	5.97	64	3371	0.55 ug/L #	73
7) Trichlorofluoromethane	6.77	101	4364	0.54 ug/L	92
8) Acetone	6.93	43	1615	Below Cal #	66
9) Iodomethane	7.58	142	1272	0.47 ug/L	92
10) 1,1-Dichloroethene	7.50	96	2883	0.61 ug/L	93
11) Methylene chloride	7.70	84	3890	0.70 ug/L	97
12) Freon 113	7.77	101	3509	0.63 ug/L	92
13) Carbon disulfide	8.02	76	10027	0.60 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	92
15) MTBE	8.73	73	5033	0.56 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.54 ug/L	96
17) Vinyl acetate	9.08	43	4816	0.57 ug/L #	83
18) 2-Butanone (MEK)	9.46	72	199	1.62 ug/L #	34
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	90
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	93
21) Chloroform	9.93	83	4941	0.55 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.53 ug/L	100
24) 1,2-Dichloroethane	10.77	62	2927	0.53 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.51 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	95
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.54 ug/L	99
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	87
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L #	97
32) Trichloroethene	12.27	95	2709	0.53 ug/L	98
33) Bromodichloromethane	12.33	83	3018	0.50 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	Below Cal #	55
35) cis-1,3-Dichloropropene	13.18	75	3500	0.48 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	13.32	43	2046	0.69 ug/L #	82
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.51 ug/L	84
40) Toluene	14.21	92	6374	0.55 ug/L	96
42) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	96

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

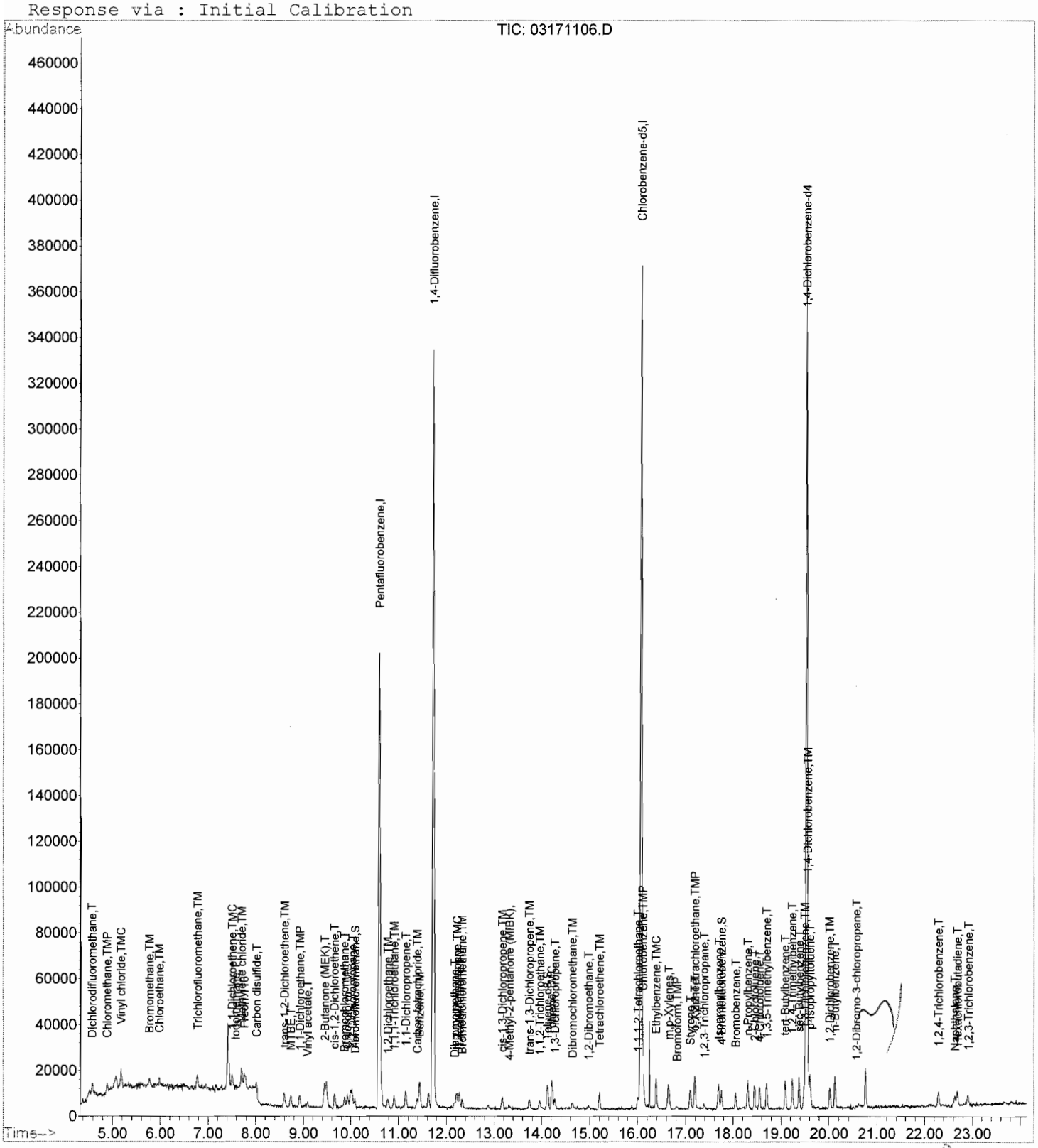
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	Dibromochloromethane	14.65	129	2052	0.62 ug/L		85
45)	1,2-Dibromoethane	14.98	107	1293	0.47 ug/L	#	78
46)	Tetrachloroethene	15.21	166	2392	0.55 ug/L		97
47)	1,1,1,2-Tetrachloroethane	16.02	131	2040	0.57 ug/L	#	53
48)	Chlorobenzene	16.12	112	6227	0.54 ug/L		97
49)	Ethylbenzene	16.38	91	11848	0.55 ug/L		94
50)	m,p-Xylenes	16.64	106	4453	0.59 ug/L		95
51)	Styrene	17.10	104	5086	0.44 ug/L	#	78
52)	o-Xylene	17.20	106	4214	0.57 ug/L		96
55)	Bromoform	16.81	173	696	0.41 ug/L	#	64
56)	1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L	#	93
57)	1,2,3-Trichloropropane	17.38	110	276	0.37 ug/L	#	62
58)	Isopropylbenzene	17.70	105	9284	0.52 ug/L		99
59)	Bromobenzene	18.05	156	1904	0.46 ug/L		83
60)	n-Propylbenzene	18.31	91	13033	0.51 ug/L		97
61)	2-Chlorotoluene	18.45	91	8427	0.57 ug/L		93
62)	4-Chlorotoluene	18.56	91	8009	0.54 ug/L		98
63)	1,3,5-Trimethylbenzene	18.70	105	8073	0.53 ug/L		98
64)	tert-Butylbenzene	19.09	119	6647	0.51 ug/L		96
65)	1,2,4-Trimethylbenzene	19.24	105	7949	0.52 ug/L		100
66)	sec-Butylbenzene	19.38	105	11380	0.51 ug/L		99
67)	1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L		94
68)	1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L	#	87
69)	p-Isopropyltoluene	19.61	119	8395	0.49 ug/L		94
70)	1,2-Dichlorobenzene	20.02	146	3885	0.54 ug/L		97
71)	n-Butylbenzene	20.11	91	9466	0.50 ug/L		99
72)	1,2-Dibromo-3-chloropropan	20.57	157	71	0.16 ug/L	#	14
73)	1,2,4-Trichlorobenzene	22.29	180	2133	0.46 ug/L		81
74)	Naphthalene	22.63	128	4307	0.69 ug/L		100
75)	Hexachlorobutadiene	22.69	225	1446	0.48 ug/L	#	65
76)	1,2,3-Trichlorobenzene	22.90	180	1936	0.51 ug/L		87

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	0.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.76%	
39) Toluene-d8	14.12	98	14880	1.01 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.04%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.96 ug/L	94
3) Chloromethane	4.89	50	11297	0.88 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.03 ug/L #	84
5) Bromomethane	5.77	94	5200	1.12 ug/L	94
6) Chloroethane	5.98	64	6815	1.13 ug/L #	88
7) Trichlorofluoromethane	6.77	101	8152	1.03 ug/L	91
8) Acetone	6.93	43	2180	Below Cal	96
9) Iodomethane	7.57	142	3864	1.18 ug/L #	86
10) 1,1-Dichloroethene	7.51	96	5486	1.19 ug/L	97
11) Methylene chloride	7.70	84	6767	1.24 ug/L	92
12) Freon 113	7.78	101	6284	1.15 ug/L	98
13) Carbon disulfide	8.02	76	17829	1.08 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.19 ug/L	85
15) MTBE	8.73	73	10605	1.21 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.15 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.19 ug/L #	93
18) 2-Butanone (MEK)	9.48	72	190	1.60 ug/L #	1
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	97
21) Chloroform	9.93	83	8465	0.96 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.98 ug/L #	90
24) 1,2-Dichloroethane	10.78	62	5936	1.10 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.97 ug/L #	56
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	93
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.02 ug/L	97
30) Dibromomethane	12.17	93	2529	1.07 ug/L	94
31) 1,2-Dichloropropane	12.21	63	5383	0.96 ug/L #	90
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.96 ug/L #	87
34) 2-Chlorovinylethylether	12.86	63	1739	0.28 ug/L #	80
35) cis-1,3-Dichloropropene	13.18	75	6952	0.98 ug/L	96
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.19 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.99 ug/L #	84
40) Toluene	14.22	92	10459	0.92 ug/L	93
42) 1,3-Dichloropropane	14.27	76	5543	1.01 ug/L #	75

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2515	1.37 ug/L #	71
44) Dibromochloromethane	14.65	129	2863	0.86 ug/L	97
45) 1,2-Dibromoethane	14.98	107	2446	0.88 ug/L #	77
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L	94
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.00 ug/L #	59
48) Chlorobenzene	16.12	112	10976	0.96 ug/L	93
49) Ethylbenzene	16.38	91	20598	0.96 ug/L	98
50) m,p-Xylenes	16.64	106	6910	0.92 ug/L	93
51) Styrene	17.10	104	10355	0.90 ug/L	99
52) o-Xylene	17.20	106	7210	0.98 ug/L	87
55) Bromoform	16.81	173	1545	0.94 ug/L #	76
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L #	91
57) 1,2,3-Trichloropropane	17.38	110	807	1.12 ug/L	98
58) Isopropylbenzene	17.70	105	16311	0.94 ug/L	99
59) Bromobenzene	18.05	156	3839	0.96 ug/L	97
60) n-Propylbenzene	18.30	91	23854	0.97 ug/L	100
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L	96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L	96
64) tert-Butylbenzene	19.09	119	12127	0.95 ug/L	97
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.97 ug/L	99
66) sec-Butylbenzene	19.38	105	21187	0.97 ug/L	98
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L	93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L	97
69) p-Isopropyltoluene	19.61	119	15312	0.92 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	6687	0.94 ug/L	99
71) n-Butylbenzene	20.11	91	17346	0.93 ug/L	96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.89 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	4683	1.02 ug/L	95
74) Naphthalene	22.63	128	5978	0.99 ug/L	100
75) Hexachlorobutadiene	22.68	225	2850	0.98 ug/L	89
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.93 ug/L	93

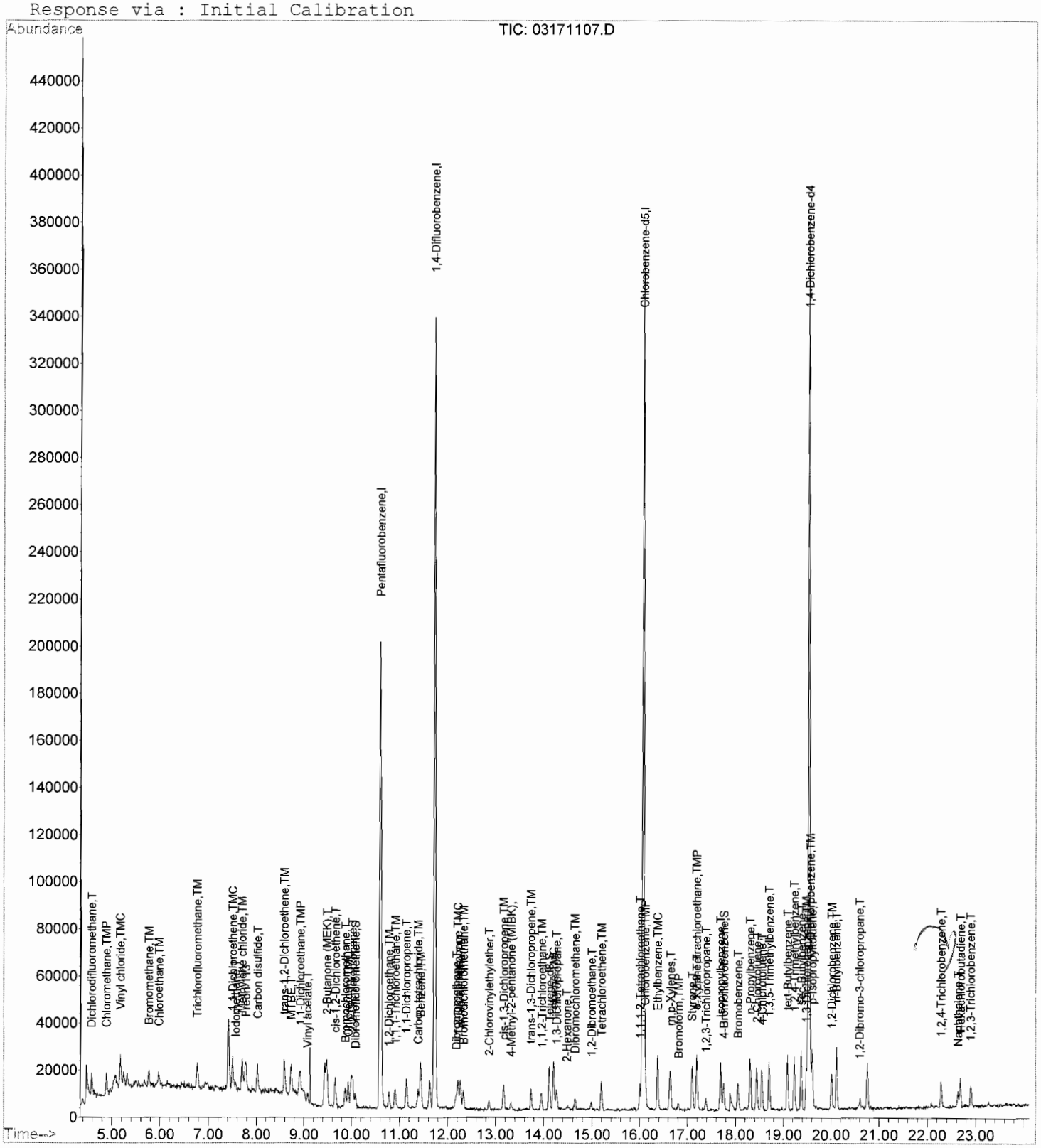
M/

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.40%	
39) Toluene-d8	14.12	98	28802	1.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.72%	
53) 4-Bromofluorobenzene	17.75	95	10411	1.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.76%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.99 ug/L	96
3) Chloromethane	4.89	50	22795	1.75 ug/L	97
4) Vinyl chloride	5.18	62	22297	1.92 ug/L	95
5) Bromomethane	5.77	94	6970	1.40 ug/L	99
6) Chloroethane	5.98	64	11754	1.91 ug/L #	83
7) Trichlorofluoromethane	6.78	101	16143	2.00 ug/L	99
8) Acetone	6.94	43	4997	1.82 ug/L	99
9) Iodomethane	7.57	142	5343	1.55 ug/L	93
10) 1,1-Dichloroethene	7.51	96	8308	1.76 ug/L	96
11) Methylene chloride	7.71	84	10726	1.93 ug/L	98
12) Freon 113	7.77	101	10221	1.83 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.80 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.83 ug/L	97
15) MTBE	8.73	73	16615	1.86 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.89 ug/L	98
17) Vinyl acetate	9.08	43	14566	1.72 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	1.55 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.02 ug/L	92
20) Bromochloromethane	9.88	128	3627	1.84 ug/L	95
21) Chloroform	9.93	83	18162	2.02 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.93 ug/L	98
24) 1,2-Dichloroethane	10.78	62	10721	1.96 ug/L #	93
25) 1,1,1-Trichloroethane	10.91	97	12034	1.87 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	98
28) Carbon tetrachloride	11.38	117	9830	1.88 ug/L	94
29) Benzene	11.44	78	39494	1.95 ug/L	100
30) Dibromomethane	12.17	93	4597	1.92 ug/L	92
31) 1,2-Dichloropropane	12.22	63	10960	1.93 ug/L #	96
32) Trichloroethene	12.27	95	9761	1.92 ug/L	96
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.16 ug/L #	83
35) cis-1,3-Dichloropropene	13.16	75	13465	1.86 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.79 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.86 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.95 ug/L	96
40) Toluene	14.21	92	22811	1.98 ug/L	95
42) 1,3-Dichloropropane	14.28	76	10418	1.88 ug/L	90

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

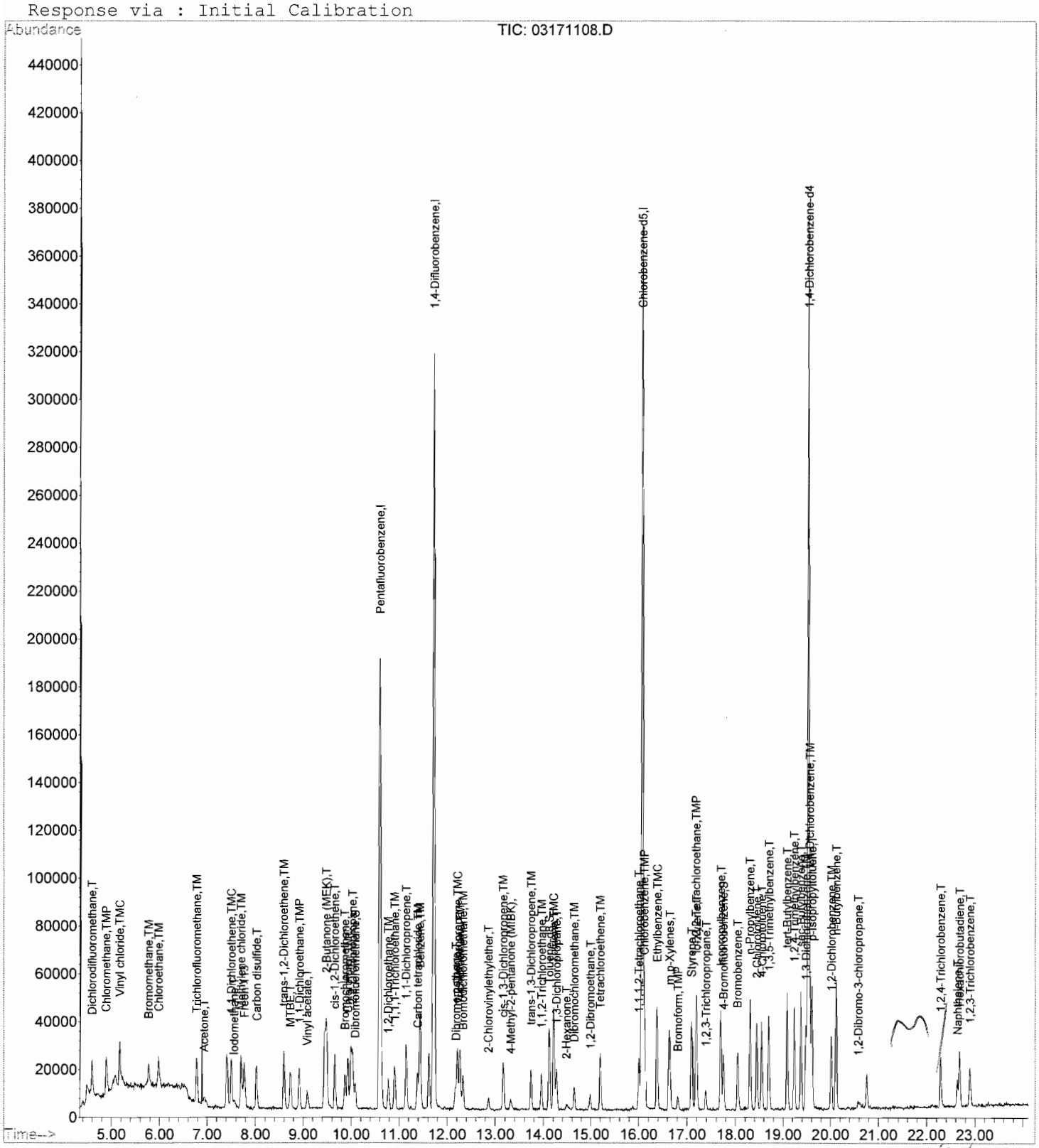
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.48	43	2474	1.34 ug/L #	88
44)	Dibromochloromethane	14.65	129	6238	1.88 ug/L	98
45)	1,2-Dibromoethane	14.99	107	5443	1.96 ug/L #	98
46)	Tetrachloroethene	15.21	166	8224	1.88 ug/L	98
47)	1,1,1,2-Tetrachloroethane	16.01	131	6797	1.88 ug/L	92
48)	Chlorobenzene	16.12	112	21803	1.90 ug/L	90
49)	Ethylbenzene	16.38	91	40622	1.88 ug/L	100
50)	m,p-Xylenes	16.64	106	14567	1.92 ug/L	98
51)	Styrene	17.09	104	21955	1.91 ug/L	99
52)	o-Xylene	17.19	106	14080	1.91 ug/L	99
55)	Bromoform	16.81	173	2978	1.82 ug/L	99
56)	1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L	93
57)	1,2,3-Trichloropropane	17.40	110	1450	2.02 ug/L	94
58)	Isopropylbenzene	17.69	105	34246	1.98 ug/L	99
59)	Bromobenzene	18.05	156	7927	1.99 ug/L	96
60)	n-Propylbenzene	18.30	91	47531	1.93 ug/L	98
61)	2-Chlorotoluene	18.44	91	27642	1.91 ug/L	99
62)	4-Chlorotoluene	18.55	91	28051	1.96 ug/L	98
63)	1,3,5-Trimethylbenzene	18.71	105	28488	1.91 ug/L	97
64)	tert-Butylbenzene	19.09	119	24316	1.91 ug/L	95
65)	1,2,4-Trimethylbenzene	19.24	105	29321	1.96 ug/L	95
66)	sec-Butylbenzene	19.38	105	43119	1.98 ug/L	97
67)	1,3-Dichlorobenzene	19.48	146	16064	1.98 ug/L	97
68)	1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L	97
69)	p-Isopropyltoluene	19.61	119	32053	1.93 ug/L	99
70)	1,2-Dichlorobenzene	20.01	146	13744	1.95 ug/L	98
71)	n-Butylbenzene	20.12	91	35106	1.90 ug/L	97
72)	1,2-Dibromo-3-chloropropan	20.59	157	972	2.21 ug/L #	79
73)	1,2,4-Trichlorobenzene	22.29	180	8342	1.83 ug/L	96
74)	Naphthalene	22.63	128	10824	1.79 ug/L	100
75)	Hexachlorobutadiene	22.68	225	5711	1.96 ug/L	99
76)	1,2,3-Trichlorobenzene	22.90	180	7016	1.89 ug/L	94

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 22.08%	
39) Toluene-d8	14.12	98	75601	5.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.20%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.68 ug/L	96
3) Chloromethane	4.90	50	69304	5.42 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.23 ug/L	97
5) Bromomethane	5.77	94	23286	4.14 ug/L	93
6) Chloroethane	5.98	64	31380	5.20 ug/L	95
7) Trichlorofluoromethane	6.78	101	44900	5.67 ug/L	97
8) Acetone	6.94	43	8551	6.12 ug/L	98
9) Iodomethane	7.57	142	19144	5.33 ug/L	97
10) 1,1-Dichloroethene	7.51	96	23635	5.12 ug/L	97
11) Methylene chloride	7.71	84	29505	5.43 ug/L	97
12) Freon 113	7.78	101	28220	5.16 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.39 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.35 ug/L	91
15) MTBE	8.74	73	47481	5.43 ug/L	99
16) 1,1-Dichloroethane	8.92	63	57409	5.38 ug/L	99
17) Vinyl acetate	9.09	43	45219	5.46 ug/L	98
18) 2-Butanone (MEK)	9.47	72	1224	5.50 ug/L #	37
19) cis-1,2-Dichloroethene	9.66	96	29437	5.56 ug/L	94
20) Bromochloromethane	9.87	128	11063	5.71 ug/L	95
21) Chloroform	9.93	83	49311	5.60 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.54 ug/L	100
24) 1,2-Dichloroethane	10.78	62	29254	5.45 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.54 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.40 ug/L	98
29) Benzene	11.44	78	106054	5.22 ug/L	98
30) Dibromomethane	12.17	93	12758	5.31 ug/L	97
31) 1,2-Dichloropropane	12.21	63	30926	5.45 ug/L	99
32) Trichloroethene	12.26	95	27719	5.46 ug/L	95
33) Bromodichloromethane	12.33	83	32710	5.49 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.89 ug/L	96
35) cis-1,3-Dichloropropene	13.17	75	39480	5.45 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	5.15 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.40 ug/L	99
40) Toluene	14.21	92	60380	5.23 ug/L	98
42) 1,3-Dichloropropane	14.27	76	31749	5.68 ug/L	98

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

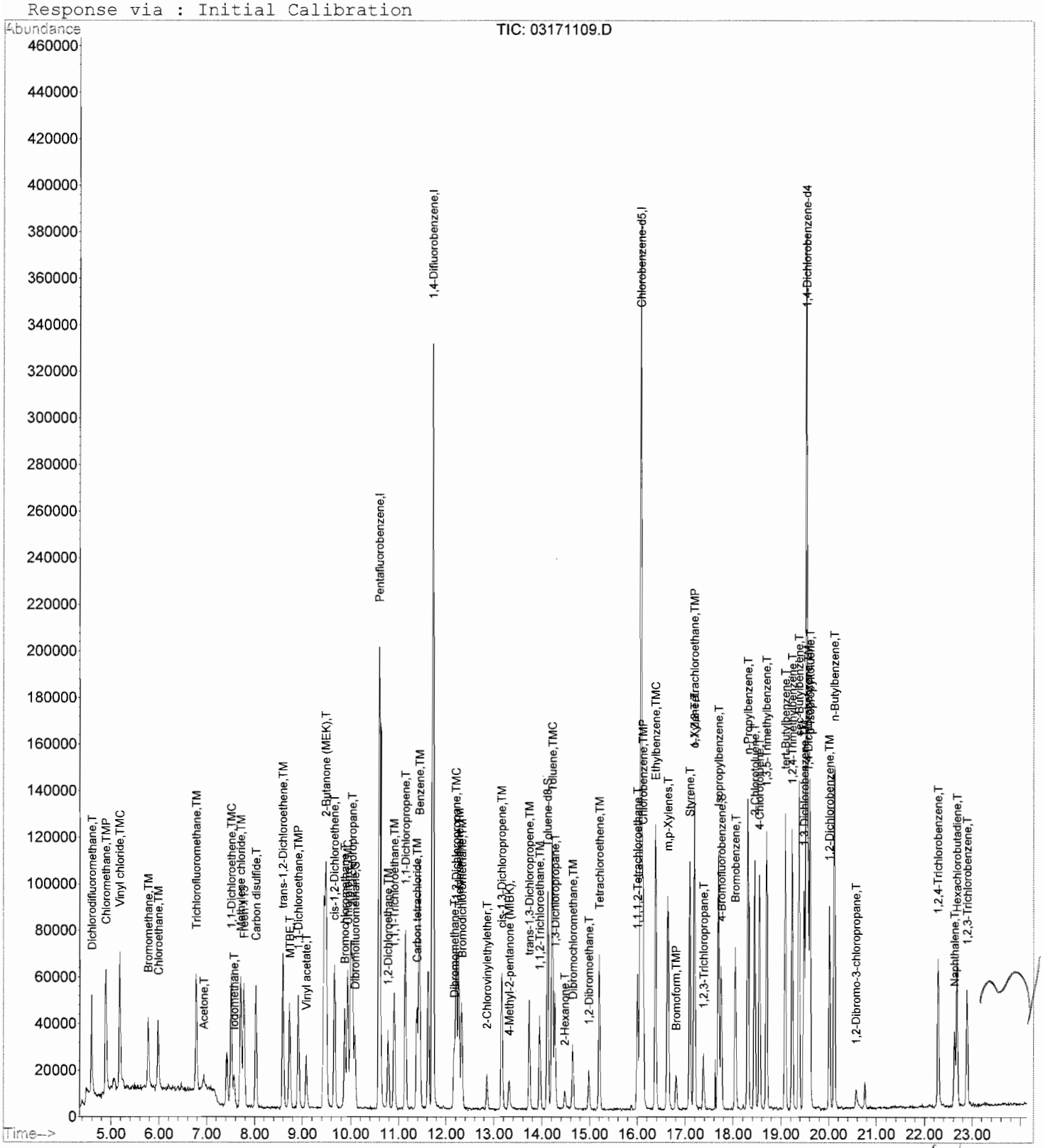
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.47	43	10625	5.70 ug/L	#	86
44)	Dibromochloromethane	14.64	129	17145	5.10 ug/L		98
45)	1,2-Dibromoethane	14.98	107	15883	5.66 ug/L	#	98
46)	Tetrachloroethene	15.21	166	22589	5.10 ug/L		97
47)	1,1,1,2-Tetrachloroethane	16.00	131	18388	5.02 ug/L		96
48)	Chlorobenzene	16.12	112	60084	5.17 ug/L		96
49)	Ethylbenzene	16.38	91	112334	5.13 ug/L		99
50)	m,p-Xylenes	16.64	106	39718	5.18 ug/L		100
51)	Styrene	17.09	104	62548	5.38 ug/L		98
52)	o-Xylene	17.20	106	38050	5.11 ug/L		98
55)	Bromoform	16.81	173	9209	5.49 ug/L		97
56)	1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L		99
57)	1,2,3-Trichloropropane	17.38	110	4203	5.70 ug/L		90
58)	Isopropylbenzene	17.69	105	91339	5.15 ug/L		98
59)	Bromobenzene	18.05	156	21568	5.27 ug/L		95
60)	n-Propylbenzene	18.30	91	134531	5.32 ug/L		98
61)	2-Chlorotoluene	18.45	91	75803	5.11 ug/L		100
62)	4-Chlorotoluene	18.55	91	77070	5.24 ug/L		97
63)	1,3,5-Trimethylbenzene	18.70	105	79213	5.17 ug/L		100
64)	tert-Butylbenzene	19.09	119	66536	5.10 ug/L		98
65)	1,2,4-Trimethylbenzene	19.23	105	78965	5.13 ug/L		99
66)	sec-Butylbenzene	19.37	105	115485	5.17 ug/L		98
67)	1,3-Dichlorobenzene	19.48	146	42641	5.12 ug/L		99
68)	1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L		97
69)	p-Isopropyltoluene	19.60	119	87337	5.11 ug/L		97
70)	1,2-Dichlorobenzene	20.01	146	38242	5.28 ug/L		99
71)	n-Butylbenzene	20.12	91	99714	5.24 ug/L		98
72)	1,2-Dibromo-3-chloropropan	20.58	157	2137	4.73 ug/L		90
73)	1,2,4-Trichlorobenzene	22.28	180	24323	5.20 ug/L		100
74)	Naphthalene	22.63	128	32491	5.23 ug/L		100
75)	Hexachlorobutadiene	22.68	225	14709	4.92 ug/L		100
76)	1,2,3-Trichlorobenzene	22.90	180	20581	5.39 ug/L		98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery = 40.72%		
39) Toluene-d8	14.12	98	143321	9.62 ug/L	0.00
Spiked Amount 25.000			Recovery = 38.48%		
53) 4-Bromofluorobenzene	17.75	95	50923	9.49 ug/L	0.00
Spiked Amount 25.000			Recovery = 37.96%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	10.15 ug/L	99
3) Chloromethane	4.89	50	135497	10.40 ug/L	99
4) Vinyl chloride	5.19	62	111850	9.64 ug/L	99
5) Bromomethane	5.78	94	53427	9.01 ug/L	95
6) Chloroethane	5.98	64	63788	10.38 ug/L	99
7) Trichlorofluoromethane	6.78	101	85392	10.59 ug/L	98
8) Acetone	6.94	43	11502	9.36 ug/L	99
9) Iodomethane	7.57	142	36401	9.84 ug/L	98
10) 1,1-Dichloroethene	7.51	96	46909	9.97 ug/L	96
11) Methylene chloride	7.71	84	55460	10.02 ug/L	99
12) Freon 113	7.78	101	52409	9.41 ug/L	98
13) Carbon disulfide	8.03	76	162804	9.73 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.82 ug/L	96
15) MTBE	8.74	73	84759	9.53 ug/L	97
16) 1,1-Dichloroethane	8.92	63	108838	10.03 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.70 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	10.73 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	53573	9.94 ug/L	99
20) Bromochloromethane	9.88	128	20976	10.64 ug/L	95
21) Chloroform	9.93	83	95119	10.62 ug/L	99
22) 2,2-Dichloropropane	10.04	77	73939	10.18 ug/L	100
24) 1,2-Dichloroethane	10.77	62	53618	9.81 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	66517	10.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.20 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.38 ug/L	98
29) Benzene	11.44	78	201076	9.95 ug/L	99
30) Dibromomethane	12.17	93	24596	10.29 ug/L	97
31) 1,2-Dichloropropane	12.21	63	55294	9.80 ug/L	99
32) Trichloroethene	12.27	95	49861	9.87 ug/L	99
33) Bromodichloromethane	12.33	83	60334	10.17 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	11.51 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	73950	10.27 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.82 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.25 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	27640	10.34 ug/L	99
40) Toluene	14.21	92	114354	9.95 ug/L	98
42) 1,3-Dichloropropane	14.27	76	56624	10.22 ug/L	100

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

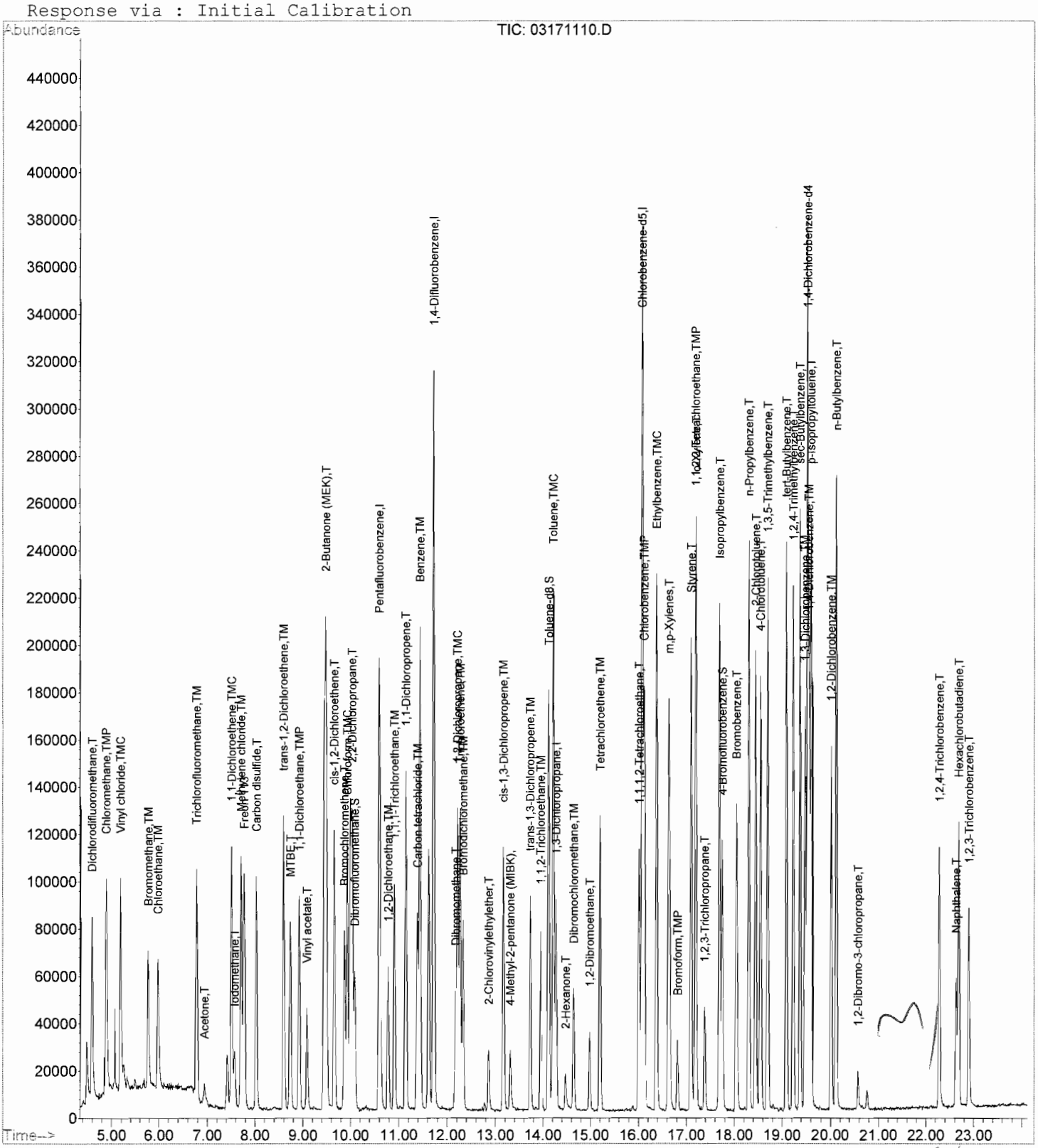
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.47	43	17603	9.53 ug/L	#	98
44)	Dibromochloromethane	14.64	129	32389	9.72 ug/L		99
45)	1,2-Dibromoethane	14.98	107	28536	10.26 ug/L		97
46)	Tetrachloroethene	15.21	166	44478	10.13 ug/L		97
47)	1,1,1,2-Tetrachloroethane	16.01	131	35495	9.79 ug/L		98
48)	Chlorobenzene	16.12	112	113625	9.87 ug/L		99
49)	Ethylbenzene	16.38	91	215370	9.93 ug/L		100
50)	m,p-Xylenes	16.64	106	74201	9.77 ug/L		99
51)	Styrene	17.09	104	115227	10.01 ug/L		99
52)	o-Xylene	17.20	106	71920	9.74 ug/L		100
55)	Bromoform	16.81	173	16316	10.27 ug/L		99
56)	1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L	#	97
57)	1,2,3-Trichloropropane	17.39	110	7243	10.36 ug/L		91
58)	Isopropylbenzene	17.69	105	176438	10.50 ug/L		99
59)	Bromobenzene	18.05	156	40825	10.53 ug/L		98
60)	n-Propylbenzene	18.30	91	250684	10.45 ug/L		99
61)	2-Chlorotoluene	18.45	91	143690	10.22 ug/L		100
62)	4-Chlorotoluene	18.55	91	141563	10.16 ug/L		99
63)	1,3,5-Trimethylbenzene	18.70	105	151285	10.42 ug/L		98
64)	tert-Butylbenzene	19.09	119	128292	10.37 ug/L		99
65)	1,2,4-Trimethylbenzene	19.23	105	149598	10.25 ug/L		100
66)	sec-Butylbenzene	19.37	105	214687	10.13 ug/L		99
67)	1,3-Dichlorobenzene	19.48	146	80400	10.17 ug/L		100
68)	1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L		99
69)	p-Isopropyltoluene	19.61	119	168592	10.41 ug/L		100
70)	1,2-Dichlorobenzene	20.02	146	69024	10.04 ug/L		98
71)	n-Butylbenzene	20.12	91	183374	10.17 ug/L		100
72)	1,2-Dibromo-3-chloropropan	20.57	157	4643	10.84 ug/L		98
73)	1,2,4-Trichlorobenzene	22.28	180	41924	9.44 ug/L		100
74)	Naphthalene	22.63	128	55616	9.45 ug/L		100
75)	Hexachlorobutadiene	22.68	225	29027	10.24 ug/L		100
76)	1,2,3-Trichlorobenzene	22.90	180	34759	9.60 ug/L		98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Re-Calc

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	25.00 ug/L	0.00
Spiked Amount 25.000			Recovery = 100.00%		
39) Toluene-d8	14.12	98	359841	24.50 ug/L	0.00
Spiked Amount 25.000			Recovery = 98.00%		
53) 4-Bromofluorobenzene	17.75	95	128707	24.22 ug/L	0.00
Spiked Amount 25.000			Recovery = 96.88%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.77 ug/L	100
3) Chloromethane	4.89	50	322628	25.13 ug/L	100
4) Vinyl chloride	5.18	62	283499	24.80 ug/L	100
5) Bromomethane	5.78	94	141242	23.74 ug/L	100
6) Chloroethane	5.98	64	150117	24.77 ug/L	100
7) Trichlorofluoromethane	6.78	101	214158	26.95 ug/L	100
8) Acetone	6.94	43	25928	26.49 ug/L	100
9) Iodomethane	7.57	142	98109	26.69 ug/L	100
10) 1,1-Dichloroethene	7.51	96	111502	24.05 ug/L	100
11) Methylene chloride	7.71	84	132209	24.24 ug/L	100
12) Freon 113	7.77	101	133636	24.35 ug/L	100
13) Carbon disulfide	8.03	76	401884	24.37 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.73 ug/L	100
15) MTBE	8.74	73	214946	24.52 ug/L	100
16) 1,1-Dichloroethane	8.92	63	264682	24.74 ug/L	100
17) Vinyl acetate	9.08	43	202265	24.34 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6903	26.82 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	131490	24.75 ug/L	100
20) Bromochloromethane	9.87	128	47437	24.40 ug/L	100
21) Chloroform	9.93	83	218360	24.73 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	25.16 ug/L	100
24) 1,2-Dichloroethane	10.78	62	136474	25.33 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	162207	25.58 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.69 ug/L	100
28) Carbon tetrachloride	11.39	117	133369	25.91 ug/L	100
29) Benzene	11.44	78	490622	24.62 ug/L	100
30) Dibromomethane	12.17	93	58067	24.63 ug/L	100
31) 1,2-Dichloropropane	12.21	63	140014	25.15 ug/L	100
32) Trichloroethene	12.27	95	124690	25.02 ug/L	100
33) Bromodichloromethane	12.33	83	150764	25.77 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	28.39 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	183565	25.85 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	24.58 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.79 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	25.19 ug/L	100
40) Toluene	14.21	92	282149	24.90 ug/L	100
42) 1,3-Dichloropropane	14.27	76	140210	25.55 ug/L	100

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

ml 3/17/11

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

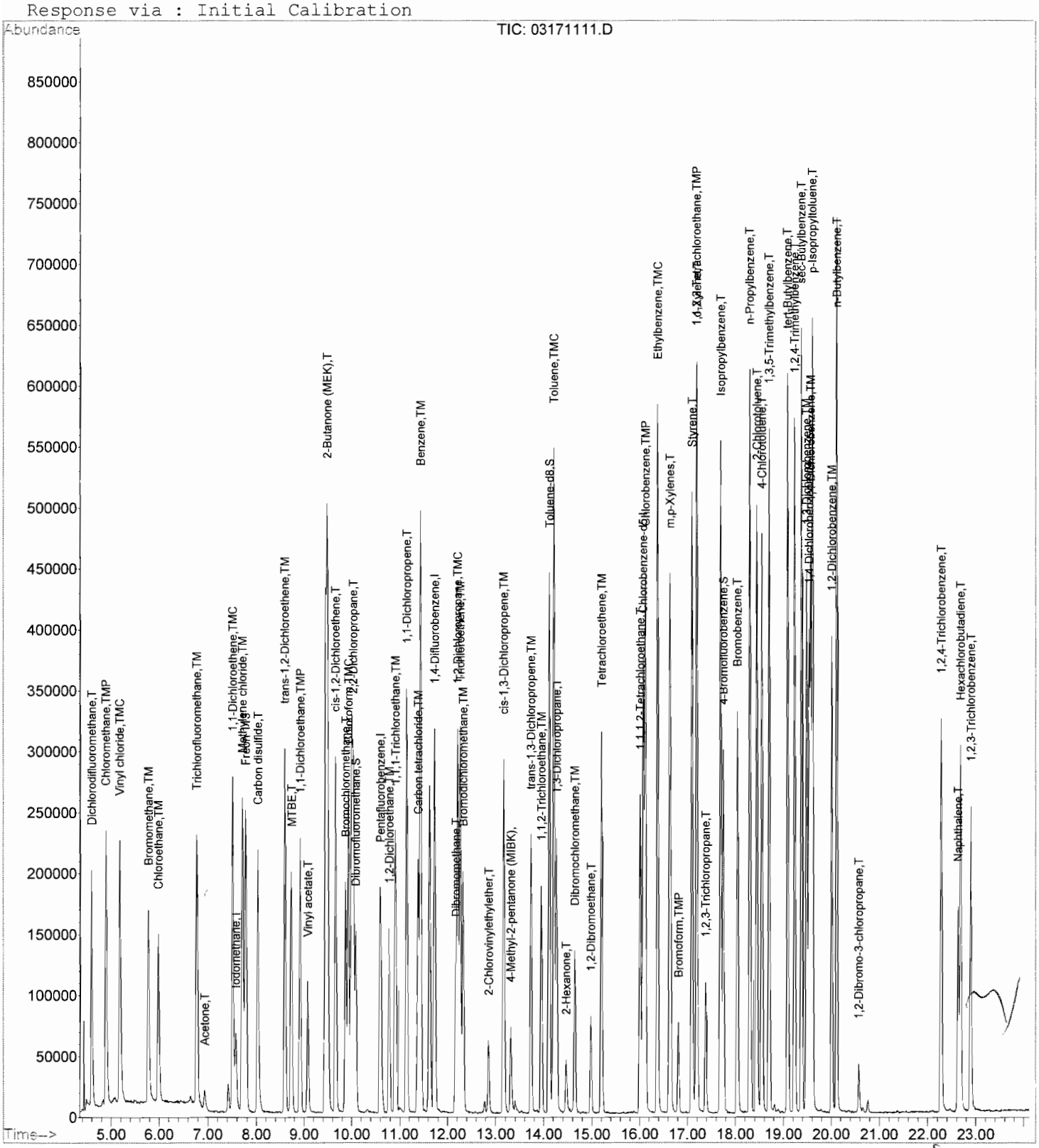
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.47	43	44449	24.30 ug/L #	100
44)	Dibromochloromethane	14.64	129	81864	24.81 ug/L	100
45)	1,2-Dibromoethane	14.98	107	70424	25.57 ug/L	100
46)	Tetrachloroethene	15.21	166	109364	25.15 ug/L	100
47)	1,1,1,2-Tetrachloroethane	16.01	131	87769	24.44 ug/L	100
48)	Chlorobenzene	16.12	112	284407	24.96 ug/L	100
49)	Ethylbenzene	16.37	91	538674	25.09 ug/L	100
50)	m,p-Xylenes	16.64	106	186494	24.80 ug/L	100
51)	Styrene	17.09	104	295005	25.87 ug/L	100
52)	o-Xylene	17.19	106	177920	24.34 ug/L	100
55)	Bromoform	16.81	173	42372	26.07 ug/L	100
56)	1,1,2,2-Tetrachloroethane	17.18	83	82184	25.00 ug/L	100
57)	1,2,3-Trichloropropane	17.38	110	18834	26.34 ug/L	100
58)	Isopropylbenzene	17.69	105	445254	25.90 ug/L	100
59)	Bromobenzene	18.05	156	105054	26.49 ug/L	100
60)	n-Propylbenzene	18.30	91	632559	25.78 ug/L	100
61)	2-Chlorotoluene	18.44	91	364433	25.35 ug/L	100
62)	4-Chlorotoluene	18.55	91	369067	25.89 ug/L	100
63)	1,3,5-Trimethylbenzene	18.70	105	381972	25.71 ug/L	100
64)	tert-Butylbenzene	19.09	119	324112	25.63 ug/L	100
65)	1,2,4-Trimethylbenzene	19.23	105	382900	25.64 ug/L	100
66)	sec-Butylbenzene	19.37	105	556785	25.69 ug/L	100
67)	1,3-Dichlorobenzene	19.48	146	205642	25.45 ug/L	100
68)	1,4-Dichlorobenzene	19.57	146	201942	24.82 ug/L	100
69)	p-Isopropyltoluene	19.61	119	434002	26.19 ug/L	100
70)	1,2-Dichlorobenzene	20.02	146	178826	25.44 ug/L	100
71)	n-Butylbenzene	20.12	91	487367	26.43 ug/L	100
72)	1,2-Dibromo-3-chloropropan	20.58	157	11318	25.84 ug/L	100
73)	1,2,4-Trichlorobenzene	22.28	180	122376	26.96 ug/L	100
74)	Naphthalene	22.63	128	163821	27.21 ug/L	100
75)	Hexachlorobutadiene	22.69	225	76790	26.49 ug/L	100
76)	1,2,3-Trichlorobenzene	22.90	180	101564	27.44 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	46.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 185.96%	
39) Toluene-d8	14.11	98	726789	47.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 190.24%	
53) 4-Bromofluorobenzene	17.76	95	259969	47.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 188.76%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	47.93 ug/L	98
3) Chloromethane	4.90	50	687656	50.97 ug/L	99
4) Vinyl chloride	5.18	62	596978	49.70 ug/L	98
5) Bromomethane	5.78	94	296252	47.13 ug/L	98
6) Chloroethane	5.99	64	300876	47.25 ug/L	99
7) Trichlorofluoromethane	6.78	101	340516	40.77 ug/L	97
8) Acetone	6.93	43	44278	45.51 ug/L	99
9) Iodomethane	7.58	142	195341	50.45 ug/L	98
10) 1,1-Dichloroethene	7.52	96	220268	45.21 ug/L	99
11) Methylene chloride	7.71	84	264019	46.07 ug/L	99
12) Freon 113	7.78	101	262900	45.58 ug/L	99
13) Carbon disulfide	8.03	76	807912	46.61 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.15 ug/L	98
15) MTBE	8.73	73	407385	44.23 ug/L	99
16) 1,1-Dichloroethane	8.92	63	517515	46.02 ug/L	99
17) Vinyl acetate	9.08	43	400997	45.91 ug/L	99
18) 2-Butanone (MEK)	9.47	72	13656	49.70 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	257331	46.10 ug/L	99
20) Bromochloromethane	9.87	128	96376	47.18 ug/L	96
21) Chloroform	9.93	83	424654	45.77 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.51 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	46.20 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	323769	48.60 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.20 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	50.05 ug/L	100
29) Benzene	11.44	78	1008066	48.61 ug/L	98
30) Dibromomethane	12.17	93	116662	47.55 ug/L	98
31) 1,2-Dichloropropane	12.21	63	281688	48.64 ug/L	100
32) Trichloroethene	12.26	95	255144	49.21 ug/L	99
33) Bromodichloromethane	12.33	83	300337	49.34 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	50.19 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	364674	49.35 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	47.40 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.75 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	48.12 ug/L	99
40) Toluene	14.22	92	583744	49.52 ug/L	98
42) 1,3-Dichloropropane	14.27	76	277506	48.79 ug/L	97

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

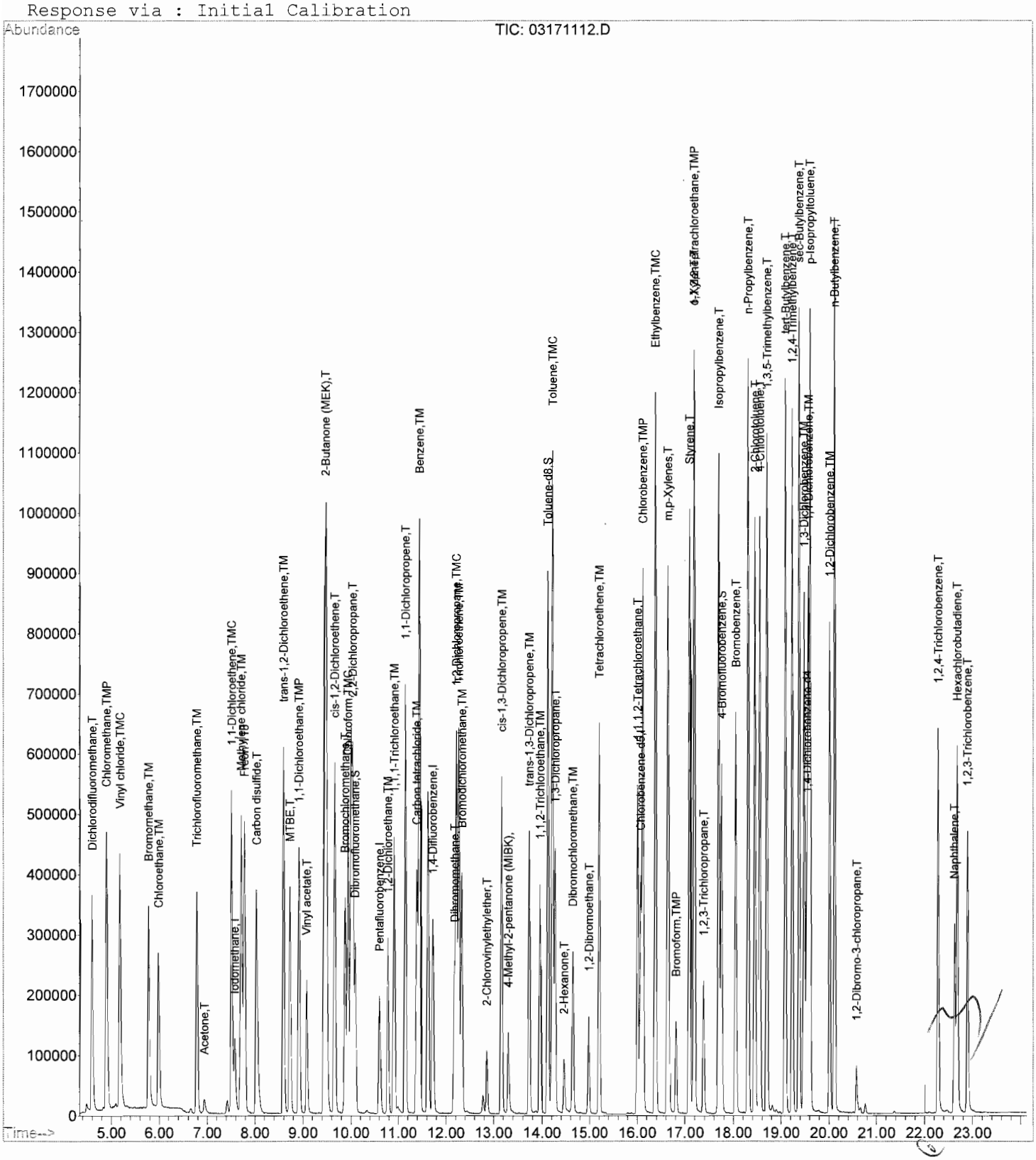
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	50.92 ug/L #	94
44) Dibromochloromethane	14.65	129	168655	49.32 ug/L	98
45) 1,2-Dibromoethane	14.98	107	142279	49.83 ug/L	97
46) Tetrachloroethene	15.20	166	223148	49.50 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	48.47 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.83 ug/L	99
49) Ethylbenzene	16.38	91	1095906	49.25 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.30 ug/L	98
51) Styrene	17.10	104	602783	50.99 ug/L	99
52) o-Xylene	17.20	106	366193	48.33 ug/L	97
55) Bromoform	16.82	173	87491	52.11 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.02 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	50.24 ug/L	96
58) Isopropylbenzene	17.70	105	904235	50.93 ug/L	99
59) Bromobenzene	18.05	156	210716	51.44 ug/L	99
60) n-Propylbenzene	18.30	91	1279523	50.48 ug/L	100
61) 2-Chlorotoluene	18.45	91	736550	49.60 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.32 ug/L	100
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.75 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	50.66 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	772492	50.09 ug/L	99
66) sec-Butylbenzene	19.38	105	1121222	50.08 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	414698	49.68 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	411367	48.95 ug/L	98
69) p-Isopropyltoluene	19.61	119	866615	50.64 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	49.55 ug/L	99
71) n-Butylbenzene	20.11	91	964633	50.65 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	49.85 ug/L	91
73) 1,2,4-Trichlorobenzene	22.28	180	240360	51.26 ug/L	99
74) Naphthalene	22.63	128	314469	50.58 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	50.29 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	192513	50.36 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	96.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 385.84%	
39) Toluene-d8	14.12	98	1505447	96.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 386.08%	
53) 4-Bromofluorobenzene	17.75	95	536695	97.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 390.08%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	94.19 ug/L	98
3) Chloromethane	4.90	50	1431368	104.65 ug/L	99
4) Vinyl chloride	5.18	62	1228117	100.85 ug/L	100
5) Bromomethane	5.78	94	641424	100.36 ug/L	98
6) Chloroethane	5.98	64	584071	90.47 ug/L	100
7) Trichlorofluoromethane	6.78	101	698452	82.49 ug/L	98
8) Acetone	6.94	43	84316	88.94 ug/L	97
9) Iodomethane	7.58	142	393011	100.00 ug/L	99
10) 1,1-Dichloroethene	7.52	96	450680	91.25 ug/L	99
11) Methylene chloride	7.71	84	530536	91.30 ug/L	99
12) Freon 113	7.78	101	537890	91.98 ug/L	99
13) Carbon disulfide	8.04	76	1652598	94.04 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.19 ug/L	96
15) MTBE	8.74	73	859812	92.07 ug/L	99
16) 1,1-Dichloroethane	8.93	63	1054794	92.52 ug/L	99
17) Vinyl acetate	9.08	43	827230	93.42 ug/L	99
18) 2-Butanone (MEK)	9.47	72	27904	99.26 ug/L	96
19) cis-1,2-Dichloroethene	9.66	96	527963	93.29 ug/L	99
20) Bromochloromethane	9.87	128	191014	92.23 ug/L	94
21) Chloroform	9.93	83	877382	93.27 ug/L	100
22) 2,2-Dichloropropane	10.04	77	739530	96.96 ug/L	99
24) 1,2-Dichloroethane	10.78	62	540824	94.21 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	659685	97.66 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.58 ug/L	98
28) Carbon tetrachloride	11.39	117	547122	100.10 ug/L	100
29) Benzene	11.44	78	2051183	96.91 ug/L	99
30) Dibromomethane	12.17	93	236182	94.32 ug/L	99
31) 1,2-Dichloropropane	12.21	63	573859	97.07 ug/L	99
32) Trichloroethene	12.27	95	518186	97.91 ug/L	100
33) Bromodichloromethane	12.33	83	619726	99.74 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	94.85 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	755768	100.21 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	100.07 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.98 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	97.54 ug/L	99
40) Toluene	14.22	92	1181672	98.20 ug/L	98
42) 1,3-Dichloropropane	14.27	76	562918	99.07 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171113.D 031711.M Fri Mar 18 08:38:55 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

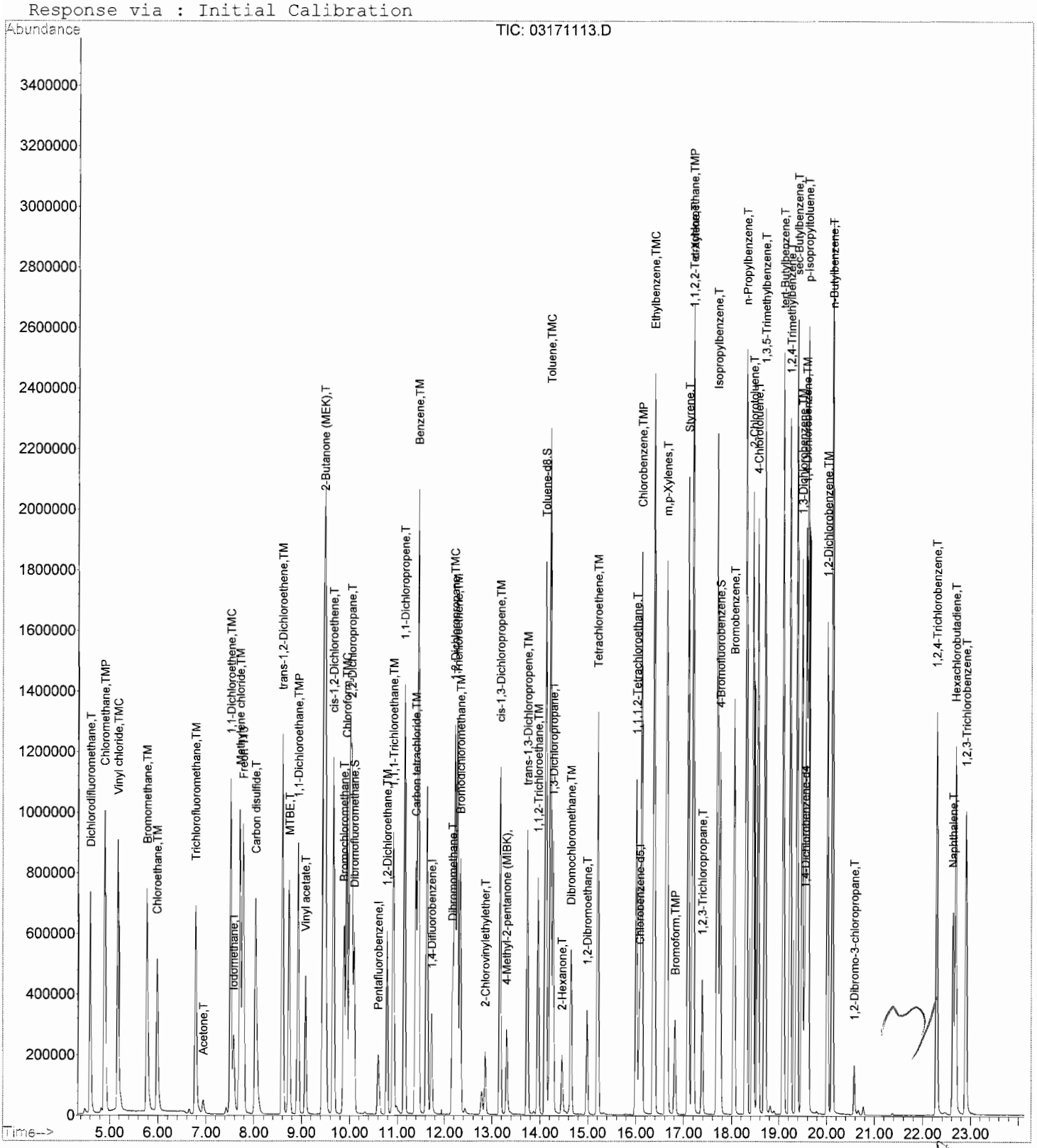
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Hexanone	14.46	43	203381	107.35 ug/L	#	96
44)	Dibromochloromethane	14.65	129	341882	100.06 ug/L		98
45)	1,2-Dibromoethane	14.98	107	294156	103.12 ug/L		99
46)	Tetrachloroethene	15.20	166	455622	101.17 ug/L		99
47)	1,1,1,2-Tetrachloroethane	16.01	131	371997	100.03 ug/L		98
48)	Chlorobenzene	16.12	112	1190206	100.85 ug/L		99
49)	Ethylbenzene	16.38	91	2245318	100.99 ug/L		100
50)	m,p-Xylenes	16.64	106	773283	99.30 ug/L		100
51)	Styrene	17.10	104	1244691	105.39 ug/L		99
52)	o-Xylene	17.20	106	750628	99.16 ug/L		97
55)	Bromoform	16.82	173	182147	105.27 ug/L		98
56)	1,1,2,2-Tetrachloroethane	17.18	83	341207	97.52 ug/L		98
57)	1,2,3-Trichloropropane	17.38	110	75618	99.33 ug/L		96
58)	Isopropylbenzene	17.70	105	1844526	100.80 ug/L		100
59)	Bromobenzene	18.05	156	429425	101.72 ug/L		99
60)	n-Propylbenzene	18.30	91	2615929	100.14 ug/L		100
61)	2-Chlorotoluene	18.45	91	1500663	98.05 ug/L		99
62)	4-Chlorotoluene	18.55	91	1492720	98.39 ug/L		98
63)	1,3,5-Trimethylbenzene	18.70	105	1584063	100.18 ug/L		99
64)	tert-Butylbenzene	19.09	119	1344278	99.86 ug/L		100
65)	1,2,4-Trimethylbenzene	19.23	105	1578520	99.31 ug/L		99
66)	sec-Butylbenzene	19.39	105	2280043	98.81 ug/L		99
67)	1,3-Dichlorobenzene	19.49	146	847018	98.46 ug/L		99
68)	1,4-Dichlorobenzene	19.57	146	846913	97.78 ug/L		98
69)	p-Isopropyltoluene	19.61	119	1785874	101.26 ug/L		100
70)	1,2-Dichlorobenzene	20.02	146	731103	97.71 ug/L		100
71)	n-Butylbenzene	20.12	91	1981760	100.96 ug/L		99
72)	1,2-Dibromo-3-chloropropan	20.58	157	45883	98.40 ug/L		92
73)	1,2,4-Trichlorobenzene	22.28	180	510699	105.68 ug/L		99
74)	Naphthalene	22.63	128	678287	105.85 ug/L		100
75)	Hexachlorobutadiene	22.69	225	316227	102.46 ug/L		99
76)	1,2,3-Trichlorobenzene	22.90	180	412634	104.74 ug/L		100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	839626	186.83 ug/L	0.00
Spiked Amount 25.000			Recovery	= 747.32%	
39) Toluene-d8	14.12	98	3013932	192.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 770.40%	
53) 4-Bromofluorobenzene	17.76	95	1038923	185.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 743.40%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	176.30 ug/L	98
3) Chloromethane	4.90	50	2913054	208.82 ug/L	99
4) Vinyl chloride	5.16	62	2428967	195.57 ug/L	100
5) Bromomethane	5.78	94	1343422	205.83 ug/L	97
6) Chloroethane	5.98	64	1199344	182.14 ug/L	100
7) Trichlorofluoromethane	6.79	101	1701514	197.03 ug/L	99
8) Acetone	6.94	43	201529	213.75 ug/L	98
9) Iodomethane	7.58	142	794173	198.00 ug/L	98
10) 1,1-Dichloroethene	7.52	96	920511	182.74 ug/L	98
11) Methylene chloride	7.71	84	1063508	179.46 ug/L	97
12) Freon 113	7.78	101	1079115	180.94 ug/L	98
13) Carbon disulfide	8.03	76	3312605	184.83 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	185.90 ug/L	97
15) MTBE	8.74	73	1719756	180.56 ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	181.08 ug/L	99
17) Vinyl acetate	9.08	43	1660788	183.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	57153	198.44 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	185.99 ug/L	98
20) Bromochloromethane	9.88	128	361702	171.24 ug/L	95
21) Chloroform	9.93	83	1746080	182.00 ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	186.19 ug/L	98
24) 1,2-Dichloroethane	10.78	62	1056987	180.53 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	1325051	192.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.84 ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	199.16 ug/L	100
29) Benzene	11.45	78	4061777	191.29 ug/L	99
30) Dibromomethane	12.17	93	461244	183.60 ug/L	98
31) 1,2-Dichloropropane	12.21	63	1126863	190.00 ug/L	100
32) Trichloroethene	12.27	95	1022222	192.52 ug/L	98
33) Bromodichloromethane	12.33	83	1217593	195.34 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	166.89 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	1495017	197.58 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	195.44 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.66 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	191.00 ug/L	100
40) Toluene	14.22	92	2368495	196.20 ug/L	98
42) 1,3-Dichloropropane	14.28	76	1107954	191.97 ug/L	98

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

ML 3/18/11
VO 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

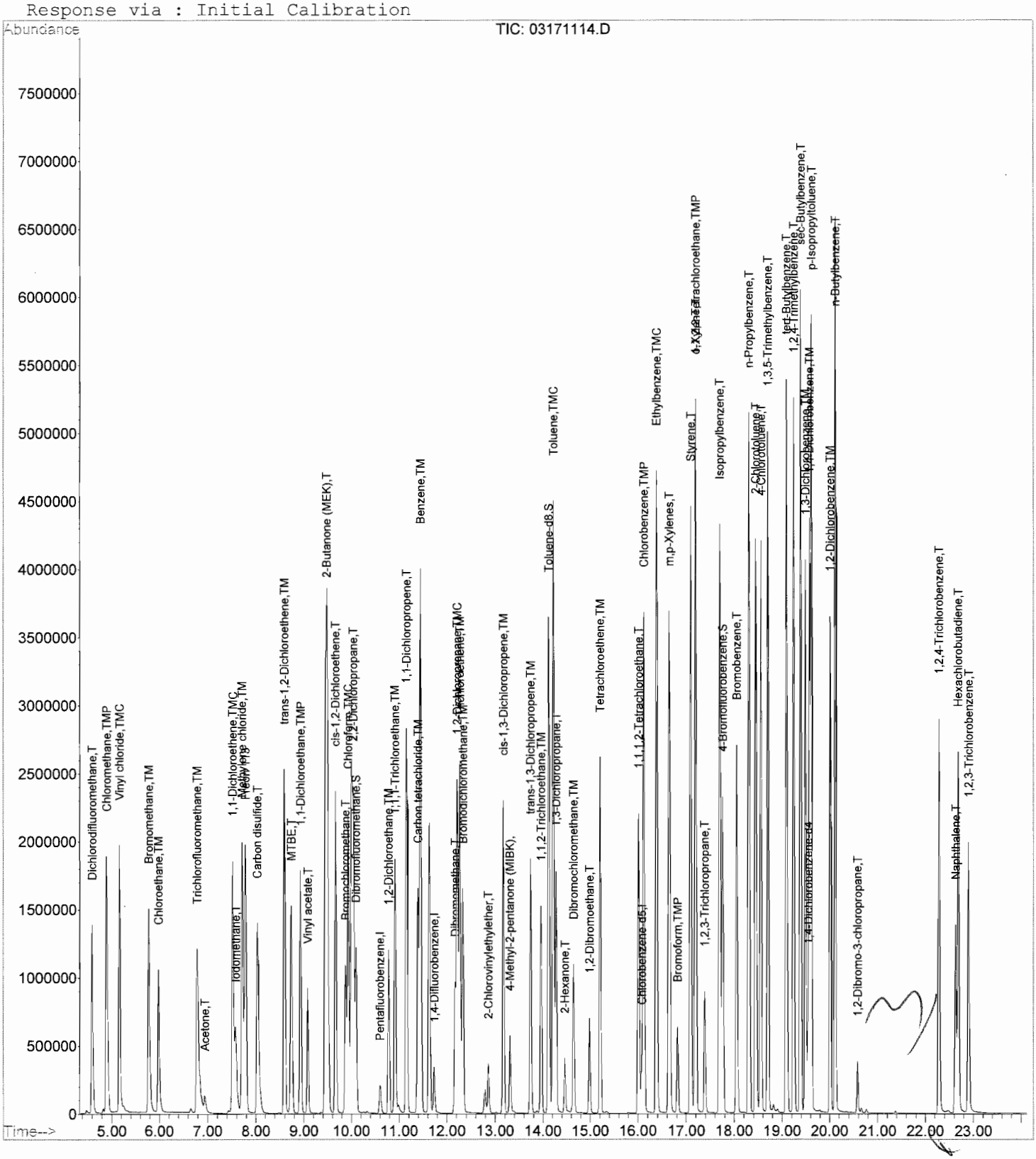
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.46	43	396743	206.17 ug/L #	96
44)	Dibromochloromethane	14.65	129	686033	197.67 ug/L	99
45)	1,2-Dibromoethane	14.99	107	575405	198.59 ug/L	99
46)	Tetrachloroethene	15.20	166	914229	199.85 ug/L	100
47)	1,1,1,2-Tetrachloroethane	16.02	131	755965	200.14 ug/L	96
48)	Chlorobenzene	16.13	112	2393108	199.64 ug/L	97
49)	Ethylbenzene	16.38	91	4465000	197.71 ug/L	99
50)	m,p-Xylenes	16.64	106	1550944	196.07 ug/L	99
51)	Styrene	17.10	104	2561762	213.54 ug/L	98
52)	o-Xylene	17.20	106	1517247	197.33 ug/L	97
55)	Bromoform	16.82	173	364089	184.76 ug/L	97
56)	1,1,2,2-Tetrachloroethane	17.19	83	656346	164.71 ug/L	97
57)	1,2,3-Trichloropropane	17.38	110	155202	179.01 ug/L	97
58)	Isopropylbenzene	17.70	105	3655213	175.39 ug/L	99
59)	Bromobenzene	18.05	156	865850	180.09 ug/L	98
60)	n-Propylbenzene	18.31	91	5305462	178.33 ug/L	99
61)	2-Chlorotoluene	18.45	91	3128722	179.50 ug/L	99
62)	4-Chlorotoluene	18.56	91	3203621	185.40 ug/L	98
63)	1,3,5-Trimethylbenzene	18.70	105	3485140	193.53 ug/L	98
64)	tert-Butylbenzene	19.09	119	2997423	195.51 ug/L	99
65)	1,2,4-Trimethylbenzene	19.24	105	3435108	189.77 ug/L	98
66)	sec-Butylbenzene	19.39	105	5038432	191.73 ug/L	99
67)	1,3-Dichlorobenzene	19.49	146	1885851	192.49 ug/L	99
68)	1,4-Dichlorobenzene	19.57	146	1902798	192.90 ug/L	99
69)	p-Isopropyltoluene	19.61	119	4021709	200.23 ug/L	99
70)	1,2-Dichlorobenzene	20.02	146	1645465	193.10 ug/L	99
71)	n-Butylbenzene	20.12	91	4374192	195.66 ug/L	98
72)	1,2-Dibromo-3-chloropropan	20.58	157	102361	192.76 ug/L	92
73)	1,2,4-Trichlorobenzene	22.28	180	1107731	201.28 ug/L	98
74)	Naphthalene	22.63	128	1413680	193.70 ug/L	100
75)	Hexachlorobutadiene	22.69	225	688401	195.85 ug/L	99
76)	1,2,3-Trichlorobenzene	22.90	180	830638	185.13 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: 8260B

DATE: 03/16/2011

WORK ORDER: PUC0730

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-VOA-001, Rev. 1
Effective Date: 03/11/2010
Page No.: 1 of 1

ANALYTICAL DATA REVIEW CHECKLIST

1100599 (H2O)

SOP PE-VOA-001 R.1
GC/MS Volatile Organic Analysis [Method No. EPA 624 & 8260B]

Analysis Date: 3/16/11	Analyst: NL			
Description	**Yes**	**No**	**NA[1]**	
1. BFB (50 ng or less): Verify meets criteria every 12 hours	✓			
2. Initial Calibration Curve (5 levels)				
- Date of Initial Calibration: 3/14/11	✓			
- SPCCs must meet Min. RF	✓			
- CCCs ≤ 30% RPD	✓			
- All other compounds ≤ 15% RSD or use curve	✓			
- Comments:				
- Second source within historical limits	✓			
3. Continuing Calibration Check (every 12 hours)				
- SPCCs must meet Min. RF	✓			
- CCCs ≤ 20% D	✓			
- IS RT ± 30 secs	✓			
- IS area –50% to +100%	✓			
- All CCVs for reported analytes within historical limits	X	✓		C
4. Method Blank				
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓			
- All compounds of interest must be < Reporting Limit	✓			
5. Laboratory Control Samples (LCS/LCSD)				
- Must be analyzed per 20 samples/per matrix/per batch	✓			
- LCS/LSCD recoveries within historical limits	✓			
- RPD ≤ 25%		✓		R7
- Surrogates within historical limits	✓			
6. MS/MSD				
- Must be analyzed per 20 samples/per matrix/per batch	✓			
- MS/MSD recoveries within historical limits		✓		MHA
- RPD ≤ 25%		✓		R2
- Surrogates within historical limits	✓			
7. Samples				
- Analyzed within 14 days of sampling	✓			
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL or CCV	✓			
- Surrogate recoveries within historical limits	✓			
- pH ≤ 2	✓			
- If pH is not ≤ 2, flag data with P and pH Data Qualifier			✓	
Comments:				

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:	Analyst: [signature]	Date: 3/17/11
	Reviewer: [signature]	Date: 3/17/11

[1]) NA: Not Applicable

Injection Log

Directory: C:\HPCHEM\1\GCMS13\DATA\031611

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03161101.d	1.	BLK		16 Mar 2011 08:21
2	2	03161102.d	1.	BLK		16 Mar 2011 08:54
3	1	03161103.d	1.	TUNE		16 Mar 2011 09:22
4	1	03161104.d	1.	25 PPB CCV		16 Mar 2011 09:44
5	2	03161105.d	1.	20 PPB CCV		16 Mar 2011 10:17
6	3	03161106.d	1.	25 PPB CCV		16 Mar 2011 10:49
7	4	03161107.d	1.	11C0599-BS1		16 Mar 2011 11:46
8	5	03161108.d	1.	11C0599-BSD1		16 Mar 2011 12:18
9	6	03161109.d	1.	11C0599-MS1		16 Mar 2011 12:50
10	7	03161110.d	1.	11C0599-MSD1		16 Mar 2011 13:23
11	8	03161111.d	1.	BLK		16 Mar 2011 13:55
12	9	03161112.d	1.	11C0599-BLK1		16 Mar 2011 14:27
13	10	03161113.d	1.	PUC0636-04@TB		16 Mar 2011 14:59
14	11	03161114.d	1.	PUC0731-05@TB		16 Mar 2011 15:32
15	12	03161115.d	1.	PUC0923-01		16 Mar 2011 16:04
16	13	03161116.d	1.	PUC0924-01		16 Mar 2011 16:37
17	11	03161117.d	1.	PUC0928-01		16 Mar 2011 17:08
18	12	03161118.d	1.	PUC0636-01		16 Mar 2011 17:40
19	13	03161119.d	1.	PUC0731-04		16 Mar 2011 18:12
20	14	03161120.d	1.	PUC0636-03		16 Mar 2011 18:44
21	15	03161121.d	1.	PUC0730-01		16 Mar 2011 19:16
22	16	03161122.d	1.	PUC0731-01		16 Mar 2011 19:48
23	17	03161123.d	1.	PUC0731-02		16 Mar 2011 20:21
24	18	03161124.d	1.	PUC0731-03		16 Mar 2011 20:53 OK
25	19	03161125.d	1.	PUC0636-02 -DNU. Past clock		16 Mar 2011 21:25
26	20	03161126.d	1.	BLK		16 Mar 2011 21:57
27	21	03161127.d	1.	PUC0848-02@TB		16 Mar 2011 22:30
28	22	03161128.d	1.	PUC0848-01		16 Mar 2011 23:02
29	23	03161129.d	1.	PUC0987-01		16 Mar 2011 23:34
30	24	03161130.d	1.	PUC0987-02		17 Mar 2011 00:07
31	25	03161131.d	1.	PUC0987-03		17 Mar 2011 00:39
32	26	03161132.d	1.	PUC0987-04		17 Mar 2011 01:11
33	27	03161133.d	1.	PUC0987-05		17 Mar 2011 01:44 OK

M 3/17/11

MC 3/17/11

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Phoenix

GC/MS 13 DAILY LOG SUMMARY

DATE: 3·16·11 **QC BATCH # (s) :** 11C0599

ANALYST: NL **SEQUENCE FILE:** 031611.S

CALIBRATION METHOD(S): 031411.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
	03161101	Blank	1X10mL	NA	8260	H_2O	
	02						
	03	Tune	2uL			NA	
	04	25ppb CCV	1X10mL			H_2O	DNU. Several compds low
	05	20					
	06	25					
	07	11C0599 - BS1					
	08	BSD1					
	09	MS1		≤2			
	10	MSD1		≤2			
	11	Blank		NA			clean out.
	12	11C0599 - BLK1					
	13	PUC0636-04A (TB)		≤2			
	14	0731-05A		≤2			
	15	0923-01C		≤2			
	16	0924-01C		≤2			
	17	0928-01A		≤2			
	18	0636-01C		≤2			RR@10X Benz.
	19	0731-04A		≤2			
	20	0636-03D		≤2			RR@10X B,T,X
	21	0730-01A		≤2			RR for Possible C.O.
	22	0731-01A		≤2			
	23	02A		≤2			
	24	03A		≤2			
	25	0636-02D		≤2			Past clock. DNU. RR@10X for Benz
	26	Blank		NA			clean out
	27	PUC0848-02A (TB)		≤2	624		
	28	01A NL 3/16/11		≤2			
	29	0987-01D		≤2			
	30	02D		≤2			

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537
CALIBRATION STD: PU01525
IS/Surrogate: PU01157
BFB: PU01261
LOT #:

REQUIRED REVIEWS

ARCHON REVIEWED
By / Date: NL 3/17/11
SEQUENCE REVIEWED
By / Date: NL 3/17/11
FINAL REVIEWER / Date: [illegible]

TestAmerica
Phoenix

GC/MS 13 DAILY LOG SUMMARY

DATE: 3/6/11 (con't) QC BATCH # (s) :

ANALYST: SEQUENCE FILE:

CALIBRATION METHOD(S):

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
	03161131	PUC0987-03 D	1x10mL	≤2	624	H_2O	
	32	04 D		≤2			
	33	05 D		≤2			

NL 3/17/11

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE:

CALIBRATION STD:

IS/Surrogate:

BFB:

LOT #:

See Prev. Page (21)

REQUIRED REVIEWS

ARCHON REVIEWED

By / Date:

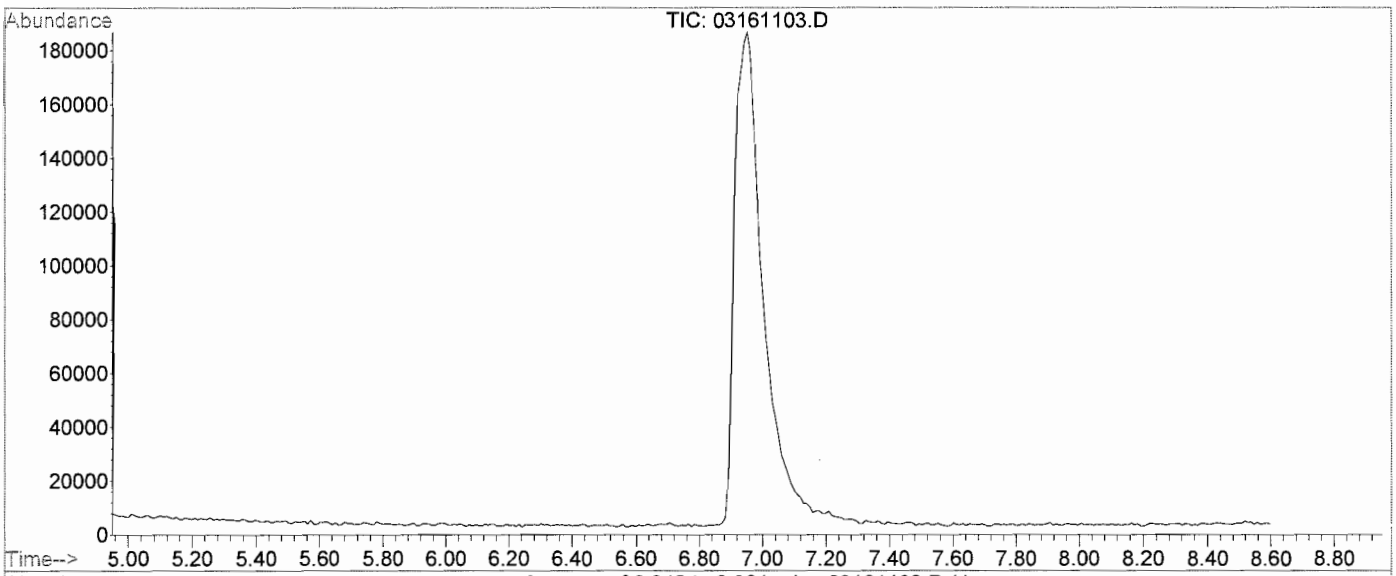
SEQUENCE REVIEWED

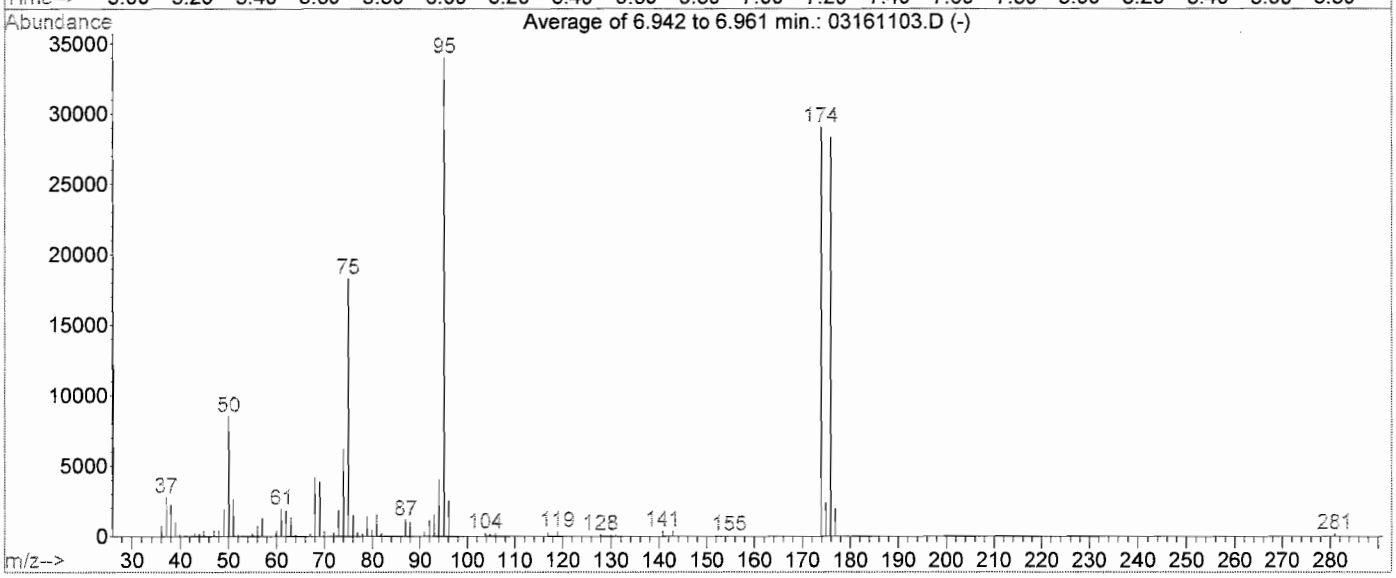
By / Date:

FINAL REVIEWER / Date: M 3/17/11

Method 8260

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161103.D Vial: 1
Acq On : 16 Mar 2011 9:22 am Operator: NL
Sample : TUNE Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260





Spectrum Information: Average of 6.942 to 6.961 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.1	8522	PASS
75	95	30	60	53.8	18280	PASS
95	95	100	100	100.0	33995	PASS
96	95	5	9	7.4	2500	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.4	29035	PASS
175	174	5	9	8.0	2332	PASS
176	174	95	101	97.6	28336	PASS
177	176	5	9	6.8	1935	PASS

NL 3/17/11

03161103.D 031411.M Thu Mar 17 11:18:31 2011 NL 3/17/11

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161104.D Vial: 1
Acq On : 16 Mar 2011 9:44 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:18 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	91840	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	597806	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	774536	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	698219	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	414375	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.97	113	300898	21.95 ug/L	0.00
Spiked Amount 25.000			Recovery = 87.80%		
46) Toluene-d8	13.99	98	815290	23.87 ug/L	0.00
Spiked Amount 25.000			Recovery = 95.48%		
60) 4-Bromofluorobenzene	17.62	95	424045	27.53 ug/L	0.00
Spiked Amount 25.000			Recovery = 110.12%		

Target Compounds					Qvalue
2) Ethanol	5.89	45	1407	38.44 ug/L #	37
3) tert-Butanol (TBA)	7.41	59	23149	46.16 ug/L #	82
5) Dichlorodifluoromethane	4.47	85	557133	25.44 ug/L	100
6) Chloromethane	4.77	50	292342	23.53 ug/L	100
7) Vinyl chloride	5.07	62	313359	23.58 ug/L	100
8) Bromomethane	5.66	94	207976	19.55 ug/L	92
9) Chloroethane	5.87	64	241120	21.29 ug/L	96
10) Trichlorofluoromethane	6.68	101	696403	25.53 ug/L	98
11) Acetone	6.83	43	103098	34.81 ug/L	95
12) Iodomethane	7.46	142	247591	19.29 ug/L	96
13) 1,1-Dichloroethene	7.41	96	296563	21.17 ug/L	94
14) Methylene chloride	7.59	84	326610	19.80 ug/L	95
15) Freon 113	7.66	101	412763	23.52 ug/L	99
16) Carbon disulfide	7.92	76	725982	18.64 ug/L	95
17) trans-1,2-Dichloroethene	8.49	96	317051	19.97 ug/L	94
18) MTBE	8.61	73	583904	20.48 ug/L	100
19) 1,1-Dichloroethane	8.81	63	634734	21.46 ug/L	100
20) Vinyl acetate	8.96	43	289985	21.19 ug/L	99
21) n-Hexane	9.32	86	66550	22.79 ug/L	99
22) 2-Butanone (MEK)	9.35	72	21527	27.29 ug/L #	27
23) Diisopropylether (DIPE)	9.36	45	1118330	20.70 ug/L	93
24) cis-1,2-dichloroethene	9.54	96	333355	19.59 ug/L	95
25) Bromochloromethane	9.76	128	119502	20.31 ug/L	98
26) Chloroform	9.81	83	695568	21.94 ug/L	98
27) 2,2-Dichloropropane	9.92	77	624196	24.49 ug/L	98
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	865583	21.11 ug/L	99
30) 1,2-Dichloroethane	10.65	62	453782	22.90 ug/L	98
31) 1,1,1-Trichloroethane	10.79	97	650007	23.43 ug/L	100
32) (TAME) tert-Amyl methy eth	11.50	73	569871	19.90 ug/L	96
34) 1,1-Dichloropropene	11.03	75	469586	24.40 ug/L	98
35) Carbon tetrachloride	11.27	117	552813	27.14 ug/L	99
36) Benzene	11.32	78	1105819	22.79 ug/L	95
37) Dibromomethane	12.05	93	165565	23.20 ug/L	98
38) 1,2-Dichloropropane	12.09	63	269523	22.05 ug/L	92
39) Trichloroethene	12.14	95	357863	23.78 ug/L	98
40) Bromodichloromethane	12.21	83	461106	24.26 ug/L	99

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161104.D Vial: 1
Acq On : 16 Mar 2011 9:44 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:18 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

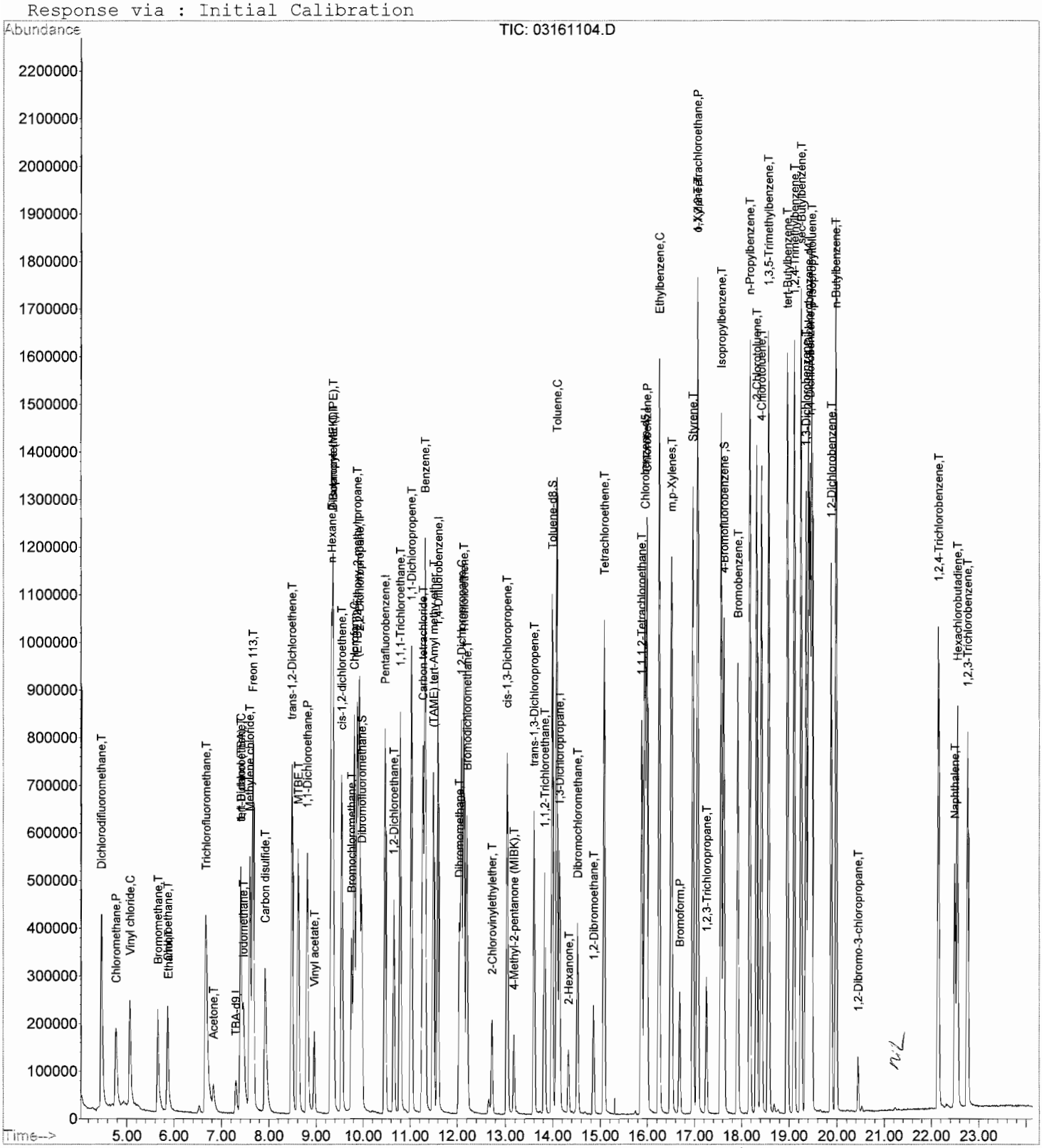
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) 2-Chlorovinylethylether	12.73	63	83108	20.77 ug/L	98
42) cis-1,3-Dichloropropene	13.03	75	431792	23.22 ug/L	92
43) 4-Methyl-2-pentanone (MIBK	13.18	43	140198	23.22 ug/L	98
44) trans-1,3-Dichloropropene	13.60	75	363667	23.77 ug/L	95
45) 1,1,2-Trichloroethane	13.83	97	180466	22.26 ug/L	96
47) Toluene	14.09	92	661371	22.43 ug/L	99
49) 1,3-Dichloropropane	14.14	76	311253	22.80 ug/L	100
50) 2-Hexanone	14.33	43	123510	28.81 ug/L	94
51) Dibromochloromethane	14.52	129	244251	22.60 ug/L	97
52) 1,2-Dibromoethane	14.86	107	182776	22.19 ug/L	99
53) Tetrachloroethene	15.08	164	285725	23.46 ug/L	99
54) 1,1,1,2-Tetrachloroethane	15.89	131	280394	22.48 ug/L	97
55) Chlorobenzene	15.99	112	716109	22.33 ug/L	97
56) Ethylbenzene	16.25	91	1355848	23.63 ug/L	99
57) m,p-Xylenes	16.51	106	457501	22.63 ug/L	96
58) Styrene	16.97	104	718109	23.39 ug/L	97
59) o-Xylene	17.07	106	456981	25.66 ug/L	99
62) Bromoform	16.69	173	146581	19.83 ug/L	98
63) 1,1,2,2-Tetrachloroethane	17.05	83	165854	20.72 ug/L	99
64) 1,2,3-Trichloropropane	17.25	110	51843	22.31 ug/L	96
65) Isopropylbenzene	17.57	105	1229816	23.11 ug/L	99
66) Bromobenzene	17.92	156	315524	21.44 ug/L	100
67) n-Propylbenzene	18.17	91	1556965	22.58 ug/L	100
68) 2-Chlorotoluene	18.32	91	993967	22.84 ug/L	96
69) 4-Chlorotoluene	18.42	91	989763	22.38 ug/L	98
70) 1,3,5-Trimethylbenzene	18.57	105	1109429	23.25 ug/L	98
71) tert-Butylbenzene	18.97	119	864509	22.27 ug/L	96
72) 1,2,4-Trimethylbenzene	19.11	105	1105772	23.12 ug/L	98
73) sec-Butylbenzene	19.25	105	1408209	23.02 ug/L	99
74) 1,3-Dichlorobenzene	19.35	146	560220	21.24 ug/L	98
75) 1,4-Dichlorobenzene	19.44	146	561466	21.29 ug/L	99
76) p-Isopropyltoluene	19.48	119	1141559	23.13 ug/L	98
77) 1,2-Dichlorobenzene	19.89	146	493650	21.40 ug/L	98
78) n-Butylbenzene	19.98	91	1174988	23.71 ug/L	99
79) 1,2-Dibromo-3-chloropropan	20.44	75	30344	20.93 ug/L	93
80) 1,2,4-Trichlorobenzene	22.16	180	429530	22.95 ug/L	99
81) Naphthalene	22.49	128	475252	21.79 ug/L	98
82) Hexachlorobutadiene	22.55	225	241749	24.48 ug/L	99
83) 1,2,3-Trichlorobenzene	22.76	180	335294	22.35 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161104.D Vial: 1
Acq On : 16 Mar 2011 9:44 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:18 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161105.D Vial: 2
Acq On : 16 Mar 2011 10:17 am Operator: NL
Sample : 20 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 10:46 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	85901	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	610941	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	760541	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	720726	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.40	152	412739	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.97	113	301614	21.53 ug/L	0.00
Spiked Amount 25.000			Recovery =	86.12%	
46) Toluene-d8	13.99	98	830709	24.77 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.08%	
60) 4-Bromofluorobenzene	17.62	95	424805	26.72 ug/L	0.00
Spiked Amount 25.000			Recovery =	106.88%	

Target Compounds					Qvalue
2) Ethanol	5.91	45	755	22.05 ug/L	80
3) tert-Butanol (TBA)	7.41	59	21783	46.47 ug/L #	82
5) Dichlorodifluoromethane	4.48	85	459226	20.52 ug/L	100
6) Chloromethane	4.78	50	241369	19.01 ug/L	99
7) Vinyl chloride	5.07	62	264277	19.46 ug/L	98
8) Bromomethane	5.66	94	173101	16.17 ug/L	93
9) Chloroethane	5.88	64	203689	17.60 ug/L	96
10) Trichlorofluoromethane	6.69	101	564629	20.26 ug/L	98
11) Acetone	6.83	43	83766	27.67 ug/L	99
12) Iodomethane	7.46	142	200095	15.63 ug/L	97
13) 1,1-Dichloroethene	7.41	96	243989	17.04 ug/L	91
14) Methylene chloride	7.60	84	276435	16.39 ug/L	98
15) Freon 113	7.66	101	339648	18.94 ug/L	98
16) Carbon disulfide	7.93	76	637350	16.01 ug/L	96
17) trans-1,2-Dichloroethene	8.48	96	272745	16.81 ug/L	96
18) MTBE	8.62	73	483572	16.60 ug/L	99
19) 1,1-Dichloroethane	8.81	63	531618	17.59 ug/L	99
20) Vinyl acetate	8.96	43	218408	15.62 ug/L	98
21) n-Hexane	9.33	86	52678	17.65 ug/L	91
22) 2-Butanone (MEK)	9.34	72	18163	22.53 ug/L #	1
23) Diisopropylether (DIPE)	9.36	45	956933	17.34 ug/L	95
24) cis-1,2-dichloroethene	9.55	96	284869	16.38 ug/L	94
25) Bromochloromethane	9.76	128	99250	16.51 ug/L	99
26) Chloroform	9.82	83	585568	18.07 ug/L	97
27) 2,2-Dichloropropane	9.92	77	503335	19.32 ug/L	99
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	722513	17.24 ug/L	98
30) 1,2-Dichloroethane	10.66	62	376603	18.59 ug/L	99
31) 1,1,1-Trichloroethane	10.79	97	547082	19.29 ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	483672	16.53 ug/L	97
34) 1,1-Dichloropropene	11.03	75	395297	20.92 ug/L	99
35) Carbon tetrachloride	11.27	117	457726	22.88 ug/L	100
36) Benzene	11.32	78	953667	20.02 ug/L	96
37) Dibromomethane	12.04	93	136600	19.49 ug/L	99
38) 1,2-Dichloropropane	12.09	63	232551	19.37 ug/L	95
39) Trichloroethene	12.14	95	302510	20.47 ug/L	99
40) Bromodichloromethane	12.20	83	382602	20.50 ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161105.D Vial: 2
Acq On : 16 Mar 2011 10:17 am Operator: NL
Sample : 20 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 10:46 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	69392	17.66 ug/L	98
42)	cis-1,3-Dichloropropene	13.04	75	364172	19.94 ug/L	94
43)	4-Methyl-2-pentanone (MIBK	13.17	43	120394	20.31 ug/L	98
44)	trans-1,3-Dichloropropene	13.60	75	305963	20.37 ug/L	96
45)	1,1,2-Trichloroethane	13.82	97	152268	19.13 ug/L	97
47)	Toluene	14.09	92	581424	20.08 ug/L	100
49)	1,3-Dichloropropane	14.14	76	259317	18.40 ug/L	98
50)	2-Hexanone	14.33	43	106375	24.04 ug/L	98
51)	Dibromochloromethane	14.52	129	209130	18.75 ug/L	99
52)	1,2-Dibromoethane	14.85	107	157062	18.48 ug/L	97
53)	Tetrachloroethene	15.08	164	242330	19.27 ug/L	99
54)	1,1,1,2-Tetrachloroethane	15.88	131	238555	18.53 ug/L	99
55)	Chlorobenzene	15.99	112	622733	18.81 ug/L	96
56)	Ethylbenzene	16.25	91	1182639	19.97 ug/L	99
57)	m,p-Xylenes	16.51	106	405238	19.42 ug/L	97
58)	Styrene	16.96	104	633473	19.99 ug/L	98
59)	o-Xylene	17.06	106	391434	21.20 ug/L	98
62)	Bromoform	16.68	173	123316	16.75 ug/L	99
63)	1,1,2,2-Tetrachloroethane	17.05	83	141635	17.76 ug/L	100
64)	1,2,3-Trichloropropane	17.25	110	41919	18.11 ug/L	97
65)	Isopropylbenzene	17.56	105	1046110	19.73 ug/L	100
66)	Bromobenzene	17.92	156	277342	18.92 ug/L	97
67)	n-Propylbenzene	18.17	91	1337804	19.48 ug/L	100
68)	2-Chlorotoluene	18.31	91	831077	19.17 ug/L	98
69)	4-Chlorotoluene	18.42	91	848365	19.25 ug/L	97
70)	1,3,5-Trimethylbenzene	18.57	105	945432	19.89 ug/L	99
71)	tert-Butylbenzene	18.96	119	767400	19.84 ug/L	97
72)	1,2,4-Trimethylbenzene	19.11	105	920003	19.31 ug/L	98
73)	sec-Butylbenzene	19.25	105	1202769	19.74 ug/L	100
74)	1,3-Dichlorobenzene	19.35	146	484399	18.44 ug/L	98
75)	1,4-Dichlorobenzene	19.44	146	482436	18.37 ug/L	99
76)	p-Isopropyltoluene	19.48	119	966316	19.66 ug/L	99
77)	1,2-Dichlorobenzene	19.88	146	424884	18.49 ug/L	97
78)	n-Butylbenzene	19.98	91	1003280	20.32 ug/L	100
79)	1,2-Dibromo-3-chloropropan	20.44	75	27093	18.76 ug/L	85
80)	1,2,4-Trichlorobenzene	22.15	180	367610	19.72 ug/L	98
81)	Naphthalene	22.49	128	418661	19.27 ug/L	98
82)	Hexachlorobutadiene	22.55	225	208265	21.17 ug/L	99
83)	1,2,3-Trichlorobenzene	22.76	180	293170	19.62 ug/L	100

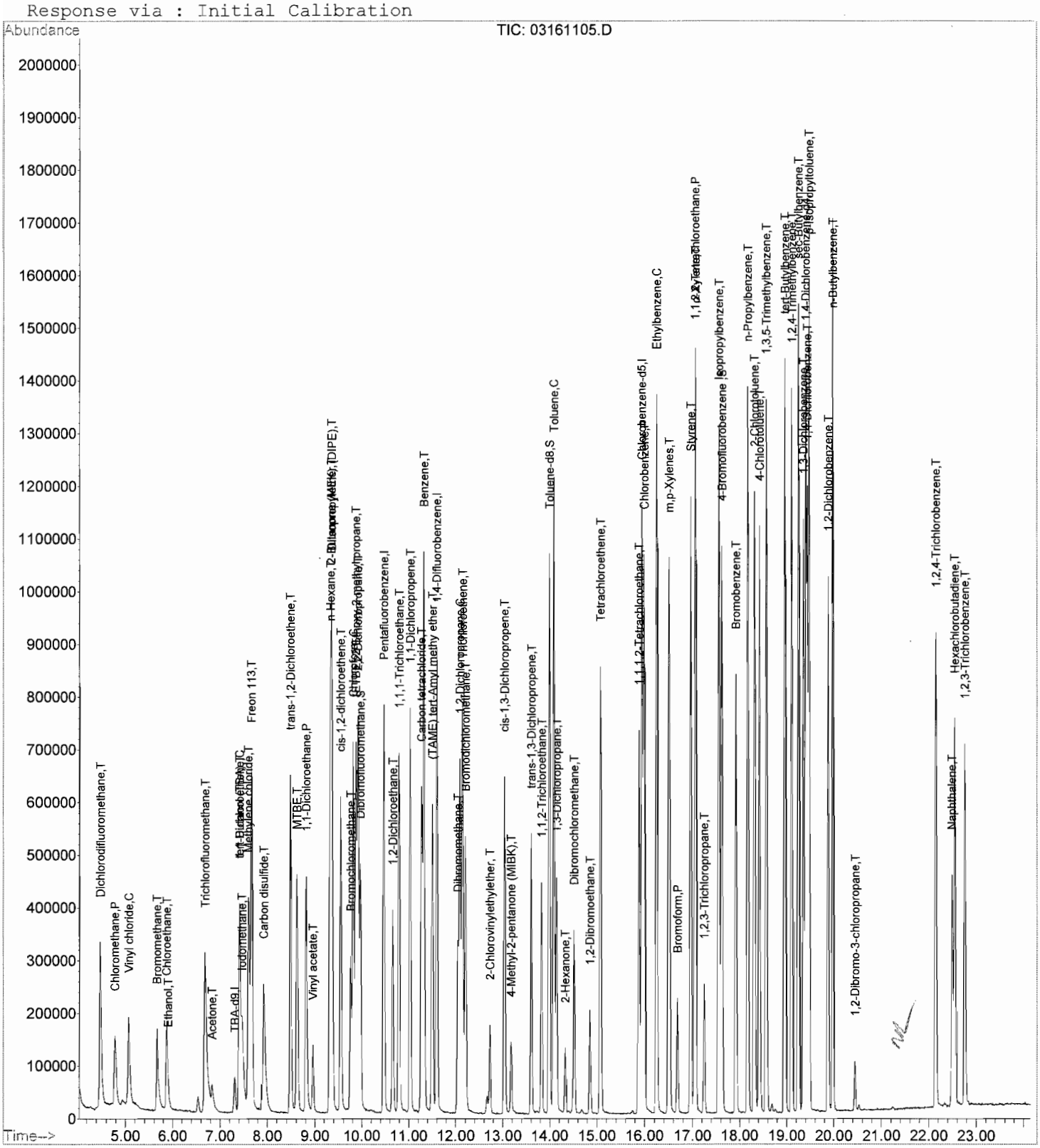
NL

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161105.D Vial: 2
Acq On : 16 Mar 2011 10:17 am Operator: NL
Sample : 20 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 10:46 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



624-20ppbCCV

Data File Name	03161105.D
Data File Path	C:\HPCHEM\1\GCMS13\DATA\031611\
Operator	NL
Date Acquired	3/16/2011 10:17
Acq. Method File	8260B
Sample Name	20 PPB CCV
Instrument Name	GCMS13

Name	Target Response	ICAL Response	Low	High	T/F
TBA-d9	85901	125792	62896	251584	TRUE
Pentafluorobenzene	610941	699455	349727.5	1398910	TRUE
1,4-Difluorobenzene	760541	1014981	507490.5	2029962	TRUE
Chlorobenzene-d5	720726	936018	468009	1872036	TRUE
1,4-Dichlorobenzene-d4	412739	492554	246277	985108	TRUE

Name	Amount	Spike Amount	% REC	Low	High	T/F
Ethanol	22.05	200	11.03	80	140	FALSE NT
tert-Butanol (TBA)	46.47	100	46.47	80	120	FALSE I
Dichlorodifluoromethane	20.52	20	102.59	60	150	TRUE
Chloromethane	19.01	20	95.04	0	204	TRUE
Vinyl chloride	19.46	20	97.31	4	196	TRUE
Bromomethane	16.17	20	80.85	14	186	TRUE
Chloroethane	17.60	20	87.98	38	162	TRUE
Trichlorofluoromethane	20.26	20	101.28	48	152	TRUE
Acetone	27.67	20	138.36	10	150	TRUE
Iodomethane	15.63	20	78.14	70	140	TRUE
1,1-Dichloroethene	17.04	20	85.22	50	150	TRUE
Methylene chloride	16.39	20	81.97	60	140	TRUE
Freon 113	18.94	20	94.70	60	140	TRUE
Carbon disulfide	16.01	20	80.07	70	130	TRUE
trans-1,2-Dichloroethene	16.81	20	84.06	70	130	TRUE
MTBE	16.60	20	83.00	70	130	TRUE
1,1-Dichloroethane	17.59	20	87.93	72	128	TRUE
Vinyl acetate	15.62	20	78.09	40	150	TRUE
n-Hexane	17.65	20	88.26	70	130	TRUE
2-Butanone (MEK)	22.53	20	112.66	40	150	TRUE
Diisopropylether (DIPE)	17.34	20	86.68	80	130	TRUE
cis-1,2-dichloroethene	16.38	20	81.90	80	120	TRUE
Bromochloromethane	16.51	20	82.54	80	120	TRUE
Chloroform	18.07	20	90.37	68	132	TRUE
2,2-Dichloropropane	19.32	20	96.62	80	130	TRUE
(ETBE) 2-Ethoxy-2-methyl propane	17.24	20	86.19	80	130	TRUE
Dibromofluoromethane	**21.53**	**25**	**86.13**	**80**	**135**	**TRUE**
1,2-Dichloroethane	18.59	20	92.97	68	132	TRUE
1,1,1-Trichloroethane	19.29	20	96.47	75	125	TRUE
(TAME) tert-Amyl methy ether	16.53	20	82.63	80	130	TRUE
1,1-Dichloropropene	20.92	20	104.58	80	120	TRUE
Carbon tetrachloride	22.88	20	114.42	73	127	TRUE
Benzene	20.02	20	100.10	64	136	TRUE
Dibromomethane	19.49	20	97.45	80	120	TRUE
1,2-Dichloropropane	19.37	20	96.86	34	166	TRUE
Trichloroethene	20.47	20	102.37	66	133	TRUE

Bromodichloromethane	20.50	20	102.49	66	134	TRUE
2-Chlorovinylethylether	17.66	20	88.30	0	224	TRUE
cis-1,3-Dichloropropene	19.94	20	99.71	24	176	TRUE
4-Methyl-2-pentanone (MIBK)	20.31	20	101.54	60	130	TRUE
trans-1,3-Dichloropropene	20.37	20	101.83	50	150	TRUE
1,1,2-Trichloroethane	19.13	20	95.63	71	129	TRUE
Toluene-d8	**24.77**	**25**	**99.06**	**80**	**125**	**TRUE**
Toluene	20.08	20	100.41	74	126	TRUE
1,3-Dichloropropane	18.40	20	92.00	80	120	TRUE
2-Hexanone	24.04	20	120.20	20	150	TRUE
Dibromochloromethane	18.75	20	93.75	68	132	TRUE
1,2-Dibromoethane	18.48	20	92.38	80	120	TRUE
Tetrachloroethene	19.27	20	96.36	74	126	TRUE
1,1,1,2-Tetrachloroethane	18.53	20	92.64	80	120	TRUE
Chlorobenzene	18.81	20	94.07	66	134	TRUE
Ethylbenzene	19.97	20	99.85	59	141	TRUE
m,p-Xylenes	19.42	20	97.11	60	140	TRUE
Styrene	19.99	20	99.94	80	120	TRUE
o-Xylene	21.20	20	106.00	80	120	TRUE
4-Bromofluorobenzene	**26.72**	**25**	**106.88**	**75**	**125**	**TRUE**
Bromoform	16.75	20	83.76	71	129	TRUE
1,1,2,2-Tetrachloroethane	17.76	20	88.81	60	140	TRUE
1,2,3-Trichloropropane	18.11	20	90.57	70	130	TRUE
Isopropylbenzene	19.73	20	98.66	80	130	TRUE
Bromobenzene	18.92	20	94.59	80	120	TRUE
n-Propylbenzene	19.48	20	97.39	75	130	TRUE
2-Chlorotoluene	19.17	20	95.85	80	120	TRUE
4-Chlorotoluene	19.25	20	96.27	80	120	TRUE
1,3,5-Trimethylbenzene	19.89	20	99.44	80	130	TRUE
tert-Butylbenzene	19.84	20	99.22	80	120	TRUE
1,2,4-Trimethylbenzene	19.31	20	96.56	80	120	TRUE
sec-Butylbenzene	19.74	20	98.71	80	120	TRUE
1,3-Dichlorobenzene	18.44	20	92.21	73	127	TRUE
1,4-Dichlorobenzene	18.37	20	91.83	63	137	TRUE
p-Isopropyltoluene	19.66	20	98.28	80	130	TRUE
1,2-Dichlorobenzene	18.49	20	92.45	63	137	TRUE
n-Butylbenzene	20.32	20	101.62	80	130	TRUE
1,2-Dibromo-3-chloropropane	18.76	20	93.79	50	150	TRUE
1,2,4-Trichlorobenzene	19.72	20	98.59	50	150	TRUE
Naphthalene	19.27	20	96.35	40	150	TRUE
Hexachlorobutadiene	21.17	20	105.85	40	150	TRUE
1,2,3-Trichlorobenzene	19.62	20	98.08	60	140	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161106.D Vial: 3
Acq On : 16 Mar 2011 10:49 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 11:12 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	93862	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	612219	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	804172	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	745719	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	430750	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.97	113	310914	22.15 ug/L	0.00
Spiked Amount 25.000			Recovery =	88.60%	
46) Toluene-d8	13.99	98	881390	24.85 ug/L	0.00
Spiked Amount 25.000			Recovery =	99.40%	
60) 4-Bromofluorobenzene	17.62	95	439227	26.70 ug/L	0.00
Spiked Amount 25.000			Recovery =	106.80%	
Target Compounds					Qvalue
2) Ethanol	5.90	45	617	16.49 ug/L	97
3) tert-Butanol (TBA)	7.41	59	26239	51.74 ug/L #	84
5) Dichlorodifluoromethane	4.48	85	580623	25.89 ug/L	100
6) Chloromethane	4.78	50	311017	24.44 ug/L	97
7) Vinyl chloride	5.07	62	337775	24.82 ug/L	97
8) Bromomethane	5.66	94	236811	21.57 ug/L	96
9) Chloroethane	5.87	64	254792	21.96 ug/L	97
10) Trichlorofluoromethane	6.68	101	719832	25.77 ug/L	97
11) Acetone	6.83	43	114605	37.78 ug/L	97
12) Iodomethane	7.46	142	291162	21.89 ug/L	97
13) 1,1-Dichloroethene	7.41	96	323127	22.53 ug/L	95
14) Methylene chloride	7.59	84	359694	21.29 ug/L	98
15) Freon 113	7.66	101	442723	24.64 ug/L	99
16) Carbon disulfide	7.92	76	821352	20.59 ug/L	97
17) trans-1,2-Dichloroethene	8.49	96	355305	21.86 ug/L	95
18) MTBE	8.62	73	623555	21.36 ug/L	99
19) 1,1-Dichloroethane	8.81	63	694368	22.92 ug/L	100
20) Vinyl acetate	8.95	43	286863	20.47 ug/L	99
21) n-Hexane	9.32	86	68048	22.75 ug/L	92
22) 2-Butanone (MEK)	9.34	72	22736	28.15 ug/L #	1
23) Diisopropylether (DIPE)	9.36	45	1211448	21.90 ug/L	95
24) cis-1,2-dichloroethene	9.54	96	380225	21.82 ug/L	97
25) Bromochloromethane	9.75	128	126952	21.07 ug/L	100
26) Chloroform	9.81	83	744882	22.94 ug/L	99
27) 2,2-Dichloropropane	9.92	77	646163	24.75 ug/L	97
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	913469	21.75 ug/L	99
30) 1,2-Dichloroethane	10.66	62	472598	23.29 ug/L	99
31) 1,1,1-Trichloroethane	10.79	97	694808	24.45 ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	628622	21.43 ug/L	97
34) 1,1-Dichloropropene	11.03	75	507735	25.41 ug/L	98
35) Carbon tetrachloride	11.26	117	593407	28.06 ug/L	100
36) Benzene	11.32	78	1251716	24.85 ug/L	98
37) Dibromomethane	12.05	93	174133	23.50 ug/L	99
38) 1,2-Dichloropropane	12.09	63	294906	23.23 ug/L	95
39) Trichloroethene	12.14	95	393735	25.20 ug/L	98
40) Bromodichloromethane	12.20	83	496725	25.17 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161106.D Vial: 3
Acq On : 16 Mar 2011 10:49 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 11:12 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

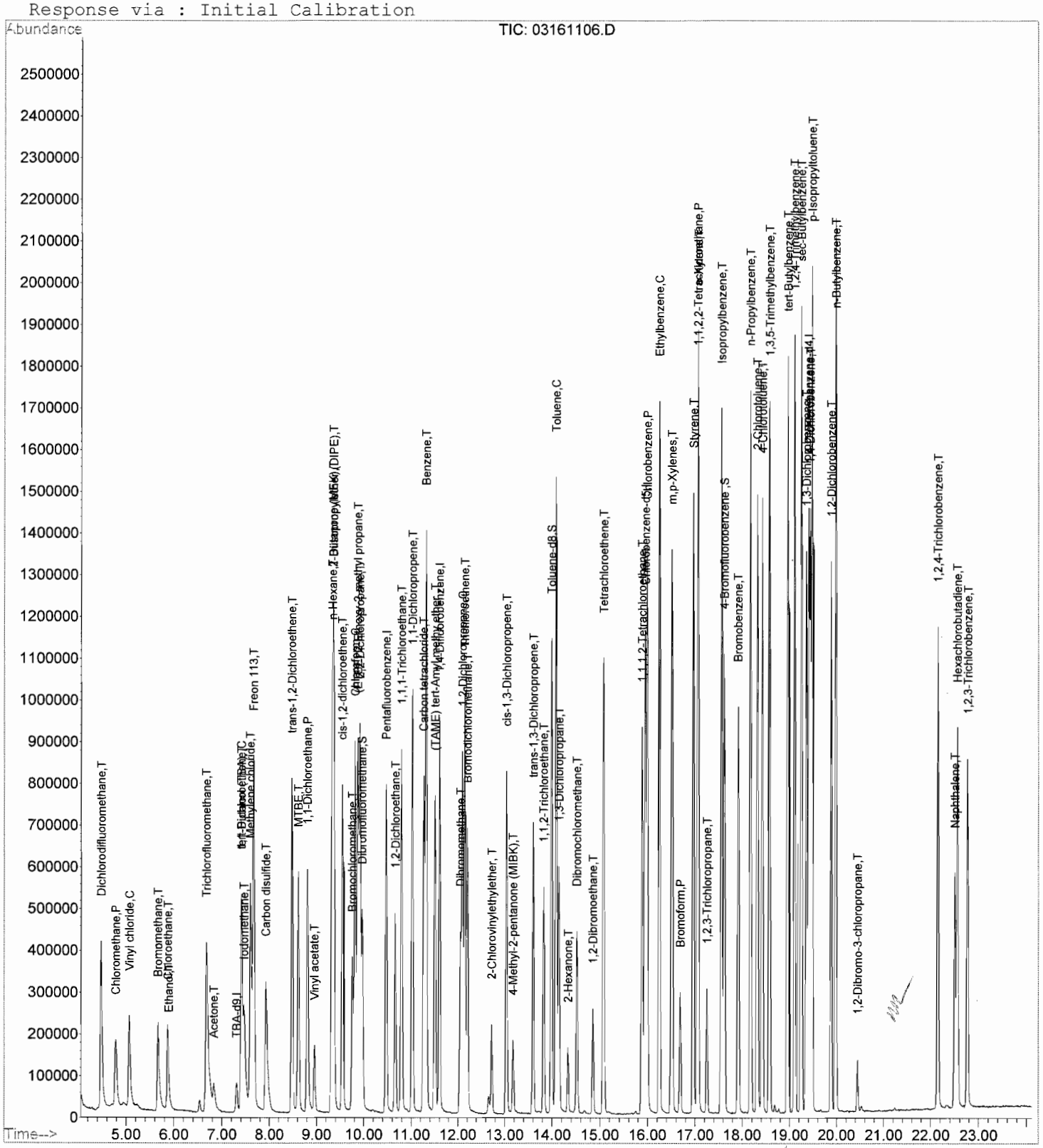
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41) 2-Chlorovinylethylether	12.72	63	89492	21.54 ug/L	96
42) cis-1,3-Dichloropropene	13.04	75	470588	24.37 ug/L	94
43) 4-Methyl-2-pentanone (MIBK	13.17	43	153265	24.45 ug/L	99
44) trans-1,3-Dichloropropene	13.60	75	395855	24.92 ug/L	96
45) 1,1,2-Trichloroethane	13.82	97	198677	23.60 ug/L	98
47) Toluene	14.08	92	726813	23.74 ug/L	98
49) 1,3-Dichloropropane	14.14	76	337420	23.14 ug/L	98
50) 2-Hexanone	14.33	43	135682	29.63 ug/L	98
51) Dibromochloromethane	14.51	129	272790	23.64 ug/L	99
52) 1,2-Dibromoethane	14.85	107	200080	22.75 ug/L	99
53) Tetrachloroethene	15.08	164	318813	24.51 ug/L	99
54) 1,1,1,2-Tetrachloroethane	15.88	131	305179	22.91 ug/L	98
55) Chlorobenzene	15.99	112	813055	23.74 ug/L	99
56) Ethylbenzene	16.24	91	1524635	24.88 ug/L	99
57) m,p-Xylenes	16.51	106	528409	24.48 ug/L	98
58) Styrene	16.96	104	806757	24.60 ug/L	98
59) o-Xylene	17.06	106	502914	26.46 ug/L	99
62) Bromoform	16.68	173	165520	21.55 ug/L	97
63) 1,1,2,2-Tetrachloroethane	17.05	83	179137	21.53 ug/L	99
64) 1,2,3-Trichloropropane	17.26	110	53245	22.05 ug/L	96
65) Isopropylbenzene	17.56	105	1327943	24.00 ug/L	99
66) Bromobenzene	17.92	156	342351	22.38 ug/L	98
67) n-Propylbenzene	18.17	91	1703215	23.76 ug/L	100
68) 2-Chlorotoluene	18.31	91	1062815	23.49 ug/L	97
69) 4-Chlorotoluene	18.42	91	1081076	23.51 ug/L	98
70) 1,3,5-Trimethylbenzene	18.57	105	1187285	23.93 ug/L	99
71) tert-Butylbenzene	18.96	119	950071	23.54 ug/L	97
72) 1,2,4-Trimethylbenzene	19.10	105	1208005	24.30 ug/L	98
73) sec-Butylbenzene	19.25	105	1516992	23.86 ug/L	99
74) 1,3-Dichlorobenzene	19.36	146	612363	22.34 ug/L	99
75) 1,4-Dichlorobenzene	19.44	146	618984	22.58 ug/L	100
76) p-Isopropyltoluene	19.48	119	1232648	24.03 ug/L	98
77) 1,2-Dichlorobenzene	19.88	146	550282	22.95 ug/L	99
78) n-Butylbenzene	19.98	91	1265550	24.56 ug/L	100
79) 1,2-Dibromo-3-chloropropan	20.45	75	33317	22.10 ug/L	90
80) 1,2,4-Trichlorobenzene	22.15	180	466702	23.99 ug/L	98
81) Naphthalene	22.50	128	535132	23.60 ug/L	100
82) Hexachlorobutadiene	22.55	225	258975	25.22 ug/L	100
83) 1,2,3-Trichlorobenzene	22.77	180	369205	23.67 ug/L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161106.D Vial: 3
Acq On : 16 Mar 2011 10:49 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 11:12 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161106.D Vial: 3
Acq On : 16 Mar 2011 10:49 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	TBA-d9	1.000	1.000	0.0	75	0.00
2	T	Ethanol	0.080	0.005	93.8#	5#	0.00
3	T	tert-Butanol (TBA)	1.108	0.447	59.7#	35#	0.00
4	I	Pentafluorobenzene	1.000	1.000	0.0	88	0.00
5	T	Dichlorodifluoromethane	0.916	0.948	-3.5	91	0.00
6	P	Chloromethane	0.520	0.508	2.3	99	0.00
7	C	Vinyl chloride	0.556	0.552	0.7	89	0.00
8	T	Bromomethane	0.401	0.387	3.5	81	0.00
9	T	Chloroethane	0.474	0.416	12.2	77	0.00
10	T	Trichlorofluoromethane	1.141	1.176	-3.1	89	0.00
11	T	Acetone	0.124	0.187	-50.8#	153#	0.00
12	T	Iodomethane	0.459	0.476	-3.7	78	0.00
13	C	1,1-Dichloroethene	0.586	0.528	9.9	83	0.00
14	T	Methylene chloride	0.690	0.588	14.8	80	0.00
15	T	Freon 113	0.734	0.723	1.5	86	0.00
16	T	Carbon disulfide	1.629	1.342	17.6	81	0.00
17	T	trans-1,2-Dichloroethene	0.664	0.580	12.7	81	0.00
18	T	MTBE	1.192	1.019	14.5	75	0.00
19	P	1,1-Dichloroethane	1.237	1.134	8.3	83	0.00
20	T	Vinyl acetate	0.572	0.469	18.0	69	0.00
21	T	n-Hexane	0.122	0.111	9.0	80	0.00
22	T	2-Butanone (MEK)	0.033	0.037	-12.1	106	0.00
23	T	Diisopropylether (DIPE)	2.259	1.979	12.4	77	0.00
24	T	cis-1,2-dichloroethene	0.712	0.621	12.8	79	0.00
25	T	Bromochloromethane	0.246	0.207	15.9	74	0.00
26	C	Chloroform	1.326	1.217	8.2	85	0.00
27	T	2,2-Dichloropropane	1.066	1.055	1.0	93	0.00
28	T	(ETBE) 2-Ethoxy-2-methyl pr	1.715	1.492	13.0	76	0.00
29	S	Dibromofluoromethane	0.573	0.508	11.3	77	0.00
30	T	1,2-Dichloroethane	0.829	0.772	6.9	83	0.00
31	T	1,1,1-Trichloroethane	1.160	1.135	2.2	88	0.00
32	T	(TAME) tert-Amyl methy ethe	1.198	1.027	14.3	75	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
34	T	1,1-Dichloropropene	0.621	0.631	-1.6	83	0.00
35	T	Carbon tetrachloride	0.657	0.738	-12.3	90	0.00
36	T	Benzene	1.566	1.557	0.6	83	0.00
37	T	Dibromomethane	0.230	0.217	5.7	75	0.00
38	C	1,2-Dichloropropane	0.395	0.367	7.1	75	0.00
39	T	Trichloroethene	0.486	0.490	-0.8	82	0.00
40	T	Bromodichloromethane	0.614	0.618	-0.7	81	0.00
41	T	2-Chlorovinylethylether	0.129	0.111	14.0	65	0.00
42	T	cis-1,3-Dichloropropene	0.600	0.585	2.5	77	0.00
43	T	4-Methyl-2-pentanone (MIBK)	0.195	0.191	2.1	75	0.00
44	T	trans-1,3-Dichloropropene	0.494	0.492	0.4	77	0.00
45	T	1,1,2-Trichloroethane	0.262	0.247	5.7	76	0.00
46	S	Toluene-d8	1.103	1.096	0.6	78	0.00
47	C	Toluene	0.952	0.904	5.0	78	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161106.D Vial: 3
Acq On : 16 Mar 2011 10:49 am Operator: NL
Sample : 25 PPB CCV Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,3-Dichloropropane	0.489	0.452	7.6	76	0.00
50	T	2-Hexanone	0.153	0.182	-19.0	103	0.00
51	T	Dibromochloromethane	0.387	0.366	5.4	76	0.00
52	T	1,2-Dibromoethane	0.295	0.268	9.2	74	0.00
53	T	Tetrachloroethene	0.436	0.428	1.8	84	0.00
54	T	1,1,1,2-Tetrachloroethane	0.447	0.409	8.5	81	0.00
55	P	Chlorobenzene	1.148	1.090	5.1	81	0.00
56	C	Ethylbenzene	2.054	2.045	0.4	82	0.00
57	T	m,p-Xylenes	0.724	0.709	2.1	84	0.00
58	T	Styrene	1.099	1.082	1.5	81	0.00
59	T	o-Xylene	0.692	0.674	2.6	83	0.00
60	S	4-Bromofluorobenzene	0.551	0.589	-6.9	86	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
62	P	Bromoform	0.446	0.384	13.9	71	0.00
63	P	1,1,2,2-Tetrachloroethane	0.483	0.416	13.9	73	0.00
64	T	1,2,3-Trichloropropane	0.140	0.124	11.4	76	0.00
65	T	Isopropylbenzene	3.211	3.083	4.0	83	0.00
66	T	Bromobenzene	0.888	0.795	10.5	78	0.00
67	T	n-Propylbenzene	4.160	3.954	5.0	84	0.00
68	T	2-Chlorotoluene	2.626	2.467	6.1	84	0.00
69	T	4-Chlorotoluene	2.669	2.510	6.0	85	0.00
70	T	1,3,5-Trimethylbenzene	2.879	2.756	4.3	85	0.00
71	T	tert-Butylbenzene	2.342	2.206	5.8	83	0.00
72	T	1,2,4-Trimethylbenzene	2.886	2.804	2.8	85	0.00
73	T	sec-Butylbenzene	3.690	3.522	4.6	83	0.00
74	T	1,3-Dichlorobenzene	1.591	1.422	10.6	81	0.00
75	T	1,4-Dichlorobenzene	1.591	1.437	9.7	82	0.00
76	T	p-Isopropyltoluene	2.978	2.862	3.9	84	0.00
77	T	1,2-Dichlorobenzene	1.392	1.277	8.3	81	0.00
78	T	n-Butylbenzene	2.990	2.938	1.7	85	0.00
79	T	1,2-Dibromo-3-chloropropane	0.087	0.077	11.5	79	0.00
80	T	1,2,4-Trichlorobenzene	1.129	1.083	4.1	82	0.00
81	T	Naphthalene	1.316	1.242	5.6	76	0.00
82	T	Hexachlorobutadiene	0.596	0.601	-0.8	85	0.00
83	T	1,2,3-Trichlorobenzene	0.905	0.857	5.3	82	0.00

8260 Continuing Calibration (CCV) Report

Sample Name 25 PPB CCV
Data File Name 03161106.D
Operator NL
Date Acquired 3/16/2011 10:49
Acq. Method File 8260B

Internal Standards	Calib. Response	CCV Response	Low	High	P/F
TBA-d9	125792	93862	46931	187724	TRUE
Pentafluorobenzene	699455	612219	306110	1224438	TRUE
1,4-Difluorobenzene	1014981	804172	402086	1608344	TRUE
Chlorobenzene-d5	936018	745719	372860	1491438	TRUE
1,4-Dichlorobenzene-d4	492554	430750	215375	861500	TRUE

Compound	Amount	Spiked Amount	% Recovery	Low	High	P/F
Ethanol	16.49	250	6.60	80	140	FALSE NT
tert-Butanol (TBA)	51.74	125	41.39	80	120	FALSE I
Dichlorodifluoromethane	25.89	25	103.55	60	150	TRUE
Chloromethane	24.44	25	97.77	60	140	TRUE
Vinyl chloride	24.82	25	99.29	80	120	TRUE
Bromomethane	21.57	25	86.30	70	140	TRUE
Chloroethane	21.96	25	87.86	70	130	TRUE
Trichlorofluoromethane	25.77	25	103.08	70	150	TRUE
Acetone	37.78	25	151.12	10	150	FALSE C
Iodomethane	21.89	25	87.54	70	140	TRUE
1,1-Dichloroethene	22.53	25	90.10	80	120	TRUE
Methylene chloride	21.29	25	85.15	70	120	TRUE
Freon 113	24.64	25	98.55	60	140	TRUE
Carbon disulfide	20.59	25	82.38	70	130	TRUE
trans-1,2-Dichloroethene	21.86	25	87.43	80	120	TRUE
MTBE	21.36	25	85.44	70	130	TRUE
1,1-Dichloroethane	22.92	25	91.69	70	125	TRUE
Vinyl acetate	20.47	25	81.88	40	150	TRUE
n-Hexane	22.75	25	91.01	70	130	TRUE
2-Butanone (MEK)	28.15	25	112.59	40	150	TRUE
Diisopropylether (DIPE)	21.90	25	87.60	80	130	TRUE
cis-1,2-dichloroethene	21.82	25	87.27	80	120	TRUE
Bromochloromethane	21.07	25	84.29	80	120	TRUE
Chloroform	22.94	25	91.77	80	120	TRUE
2,2-Dichloropropane	24.75	25	99.02	80	130	TRUE
:TBE) 2-Ethoxy-2-methyl propai	21.75	25	87.00	80	130	TRUE
Dibromofluoromethane	22.15	25	88.60	80	120	TRUE
1,2-Dichloroethane	23.29	25	93.14	75	130	TRUE
1,1,1-Trichloroethane	24.45	25	97.81	80	120	TRUE
(TAME) tert-Amyl methy ether	21.43	25	85.73	80	130	TRUE
1,1-Dichloropropene	25.41	25	101.64	80	120	TRUE
Carbon tetrachloride	28.06	25	112.23	80	130	TRUE
Benzene	24.85	25	99.40	80	120	TRUE

Dibromomethane	23.50	25	93.99	80	120	TRUE
1,2-Dichloropropane	23.23	25	92.93	80	120	TRUE
Trichloroethene	25.20	25	100.81	80	120	TRUE
Bromodichloromethane	25.17	25	100.68	80	120	TRUE
2-Chlorovinylethylether	21.54	25	86.16	70	135	TRUE
cis-1,3-Dichloropropene	24.37	25	97.49	80	120	TRUE
4-Methyl-2-pentanone (MIBK)	24.45	25	97.80	60	130	TRUE
trans-1,3-Dichloropropene	24.92	25	99.68	80	125	TRUE
1,1,2-Trichloroethane	23.60	25	94.41	80	120	TRUE
Toluene-d8	24.85	25	99.40	80	120	TRUE
Toluene	23.74	25	94.97	80	120	TRUE
1,3-Dichloropropane	23.14	25	92.56	80	120	TRUE
2-Hexanone	29.63	25	118.54	20	150	TRUE
Dibromochloromethane	23.64	25	94.55	80	120	TRUE
1,2-Dibromoethane	22.75	25	90.99	80	120	TRUE
Tetrachloroethene	24.51	25	98.02	70	130	TRUE
1,1,1,2-Tetrachloroethane	22.91	25	91.64	80	120	TRUE
Chlorobenzene	23.74	25	94.97	80	120	TRUE
Ethylbenzene	24.88	25	99.53	80	120	TRUE
m,p-Xylenes	24.48	25	97.91	60	140	TRUE
Styrene	24.60	25	98.41	80	120	TRUE
o-Xylene	26.46	25	105.82	80	120	TRUE
4-Bromofluorobenzene	26.70	25	106.81	80	120	TRUE
Bromoform	21.55	25	86.18	80	120	TRUE
1,1,2,2-Tetrachloroethane	21.53	25	86.10	80	120	TRUE
1,2,3-Trichloropropane	22.05	25	88.18	70	130	TRUE
Isopropylbenzene	24.00	25	96.01	80	130	TRUE
Bromobenzene	22.38	25	89.51	80	120	TRUE
n-Propylbenzene	23.76	25	95.04	75	130	TRUE
2-Chlorotoluene	23.49	25	93.96	80	120	TRUE
4-Chlorotoluene	23.51	25	94.04	80	120	TRUE
1,3,5-Trimethylbenzene	23.93	25	95.72	80	130	TRUE
tert-Butylbenzene	23.54	25	94.16	80	120	TRUE
1,2,4-Trimethylbenzene	24.30	25	97.19	80	120	TRUE
sec-Butylbenzene	23.86	25	95.43	80	125	TRUE
1,3-Dichlorobenzene	22.34	25	89.36	80	120	TRUE
1,4-Dichlorobenzene	22.58	25	90.31	80	120	TRUE
p-Isopropyltoluene	24.03	25	96.10	80	130	TRUE
1,2-Dichlorobenzene	22.95	25	91.79	80	120	TRUE
n-Butylbenzene	24.56	25	98.26	80	130	TRUE
1,2-Dibromo-3-chloropropane	22.10	25	88.42	50	150	TRUE
1,2,4-Trichlorobenzene	23.99	25	95.94	50	150	TRUE
Naphthalene	23.60	25	94.41	40	150	TRUE
Hexachlorobutadiene	25.22	25	100.89	40	150	TRUE
1,2,3-Trichlorobenzene	23.67	25	94.68	60	140	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161107.D Vial: 4
Acq On : 16 Mar 2011 11:46 am Operator: NL
Sample : 11C0599-BS1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 12:12 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.30	65	119737	200.00	ug/L	0.00
4) Pentafluorobenzene	10.47	168	698277	25.00	ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	905675	25.00	ug/L	0.00
48) Chlorobenzene-d5	15.94	117	850853	25.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.40	152	498461	25.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	9.97	113	356782	22.28	ug/L	0.00
Spiked Amount 25.000			Recovery = 89.12%			
46) Toluene-d8	13.99	98	994056	24.89	ug/L	0.00
Spiked Amount 25.000			Recovery = 99.56%			
60) 4-Bromofluorobenzene	17.62	95	508897	27.11	ug/L	0.00
Spiked Amount 25.000			Recovery = 108.44%			
Target Compounds						Qvalue
2) Ethanol	5.90	45	692	14.50	ug/L	99
3) tert-Butanol (TBA)	7.41	59	28280	42.94	ug/L #	83
5) Dichlorodifluoromethane	4.48	85	681715	26.65	ug/L	100
6) Chloromethane	4.78	50	357424	24.63	ug/L	99
7) Vinyl chloride	5.07	62	392903	25.32	ug/L	99
8) Bromomethane	5.67	94	303881	24.07	ug/L	91
9) Chloroethane	5.88	64	309485	23.39	ug/L	97
10) Trichlorofluoromethane	6.68	101	907533	28.49	ug/L	99
11) Acetone	6.84	43	127226	36.77	ug/L	98
12) Iodomethane	7.46	142	391235	25.46	ug/L	93
13) 1,1-Dichloroethene	7.41	96	391157	23.91	ug/L	100
14) Methylene chloride	7.60	84	429013	22.26	ug/L	99
15) Freon 113	7.67	101	480122	23.43	ug/L	99
16) Carbon disulfide	7.93	76	1074858	23.63	ug/L	99
17) trans-1,2-Dichloroethene	8.49	96	413535	22.30	ug/L	97
18) MTBE	8.62	73	820859	24.65	ug/L	99
19) 1,1-Dichloroethane	8.81	63	774050	22.40	ug/L	99
20) Vinyl acetate	8.96	43	583922	36.53	ug/L	99
21) n-Hexane	9.32	86	70665	20.72	ug/L	92
22) 2-Butanone (MEK)	9.35	72	28198	30.61	ug/L #	3
23) Diisopropylether (DIPE)	9.36	45	1441521	22.85	ug/L	98
24) cis-1,2-dichloroethene	9.55	96	419153	21.09	ug/L	97
25) Bromochloromethane	9.76	128	155808	22.67	ug/L	99
26) Chloroform	9.81	83	832937	22.49	ug/L	97
27) 2,2-Dichloropropane	9.92	77	672934	22.60	ug/L	99
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	1140422	23.81	ug/L	99
30) 1,2-Dichloroethane	10.66	62	589744	25.48	ug/L	98
31) 1,1,1-Trichloroethane	10.79	97	749841	23.14	ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	803292	24.01	ug/L	98
34) 1,1-Dichloropropene	11.03	75	571796	25.41	ug/L	98
35) Carbon tetrachloride	11.27	117	639766	26.86	ug/L	100
36) Benzene	11.32	78	1389712	24.50	ug/L	99
37) Dibromomethane	12.05	93	231178	27.70	ug/L	99
38) 1,2-Dichloropropane	12.09	63	349889	24.48	ug/L	98
39) Trichloroethene	12.14	95	430630	24.47	ug/L	99
40) Bromodichloromethane	12.21	83	571051	25.69	ug/L	99

(#) = qualifier out of range (m) = manual integration
03161107.D 031411.M Thu Mar 17 11:22:07 2011

NL 3/17/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161107.D Vial: 4
Acq On : 16 Mar 2011 11:46 am Operator: NL
Sample : 11C0599-BS1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 12:12 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	123971	26.49 ug/L	98
42)	cis-1,3-Dichloropropene	13.04	75	564173	25.94 ug/L	97
43)	4-Methyl-2-pentanone (MIBK	13.18	43	228355	32.35 ug/L	100
44)	trans-1,3-Dichloropropene	13.61	75	496847	27.77 ug/L	97
45)	1,1,2-Trichloroethane	13.83	97	256295	27.03 ug/L	99
47)	Toluene	14.09	92	809205	23.47 ug/L	99
49)	1,3-Dichloropropane	14.15	76	422859	25.41 ug/L	98
50)	2-Hexanone	14.33	43	172044	32.93 ug/L	98
51)	Dibromochloromethane	14.52	129	351792	26.72 ug/L	100
52)	1,2-Dibromoethane	14.86	107	261120	26.02 ug/L	99
53)	Tetrachloroethene	15.08	164	349282	23.53 ug/L	99
54)	1,1,1,2-Tetrachloroethane	15.89	131	354131	23.30 ug/L	97
55)	Chlorobenzene	16.00	112	906163	23.19 ug/L	99
56)	Ethylbenzene	16.25	91	1663099	23.79 ug/L	99
57)	m,p-Xylenes	16.51	106	575838	23.38 ug/L	98
58)	Styrene	16.96	104	912235	24.38 ug/L	99
59)	o-Xylene	17.07	106	551782	25.42 ug/L	99
62)	Bromoform	16.69	173	226355	25.46 ug/L	99
63)	1,1,2,2-Tetrachloroethane	17.05	83	256733	26.66 ug/L	98
64)	1,2,3-Trichloropropane	17.25	110	74448	26.64 ug/L	96
65)	Isopropylbenzene	17.56	105	1597948	24.96 ug/L	100
66)	Bromobenzene	17.92	156	401398	22.67 ug/L	98
67)	n-Propylbenzene	18.17	91	1929680	23.26 ug/L	100
68)	2-Chlorotoluene	18.32	91	1159305	22.14 ug/L	98
69)	4-Chlorotoluene	18.42	91	1230076	23.12 ug/L	98
70)	1,3,5-Trimethylbenzene	18.57	105	1322235	23.03 ug/L	100
71)	tert-Butylbenzene	18.96	119	1019574	21.83 ug/L	98
72)	1,2,4-Trimethylbenzene	19.11	105	1353933	23.53 ug/L	99
73)	sec-Butylbenzene	19.25	105	1686510	22.92 ug/L	100
74)	1,3-Dichlorobenzene	19.35	146	696321	21.95 ug/L	98
75)	1,4-Dichlorobenzene	19.44	146	709632	22.37 ug/L	100
76)	p-Isopropyltoluene	19.48	119	1350116	22.74 ug/L	99
77)	1,2-Dichlorobenzene	19.89	146	637277	22.96 ug/L	99
78)	n-Butylbenzene	19.99	91	1383328	23.20 ug/L	99
79)	1,2-Dibromo-3-chloropropan	20.44	75	45150	25.89 ug/L	98
80)	1,2,4-Trichlorobenzene	22.16	180	566091	25.14 ug/L	99
81)	Naphthalene	22.49	128	691537	26.36 ug/L	99
82)	Hexachlorobutadiene	22.55	225	281601	23.70 ug/L	99
83)	1,2,3-Trichlorobenzene	22.76	180	455243	25.22 ug/L	99

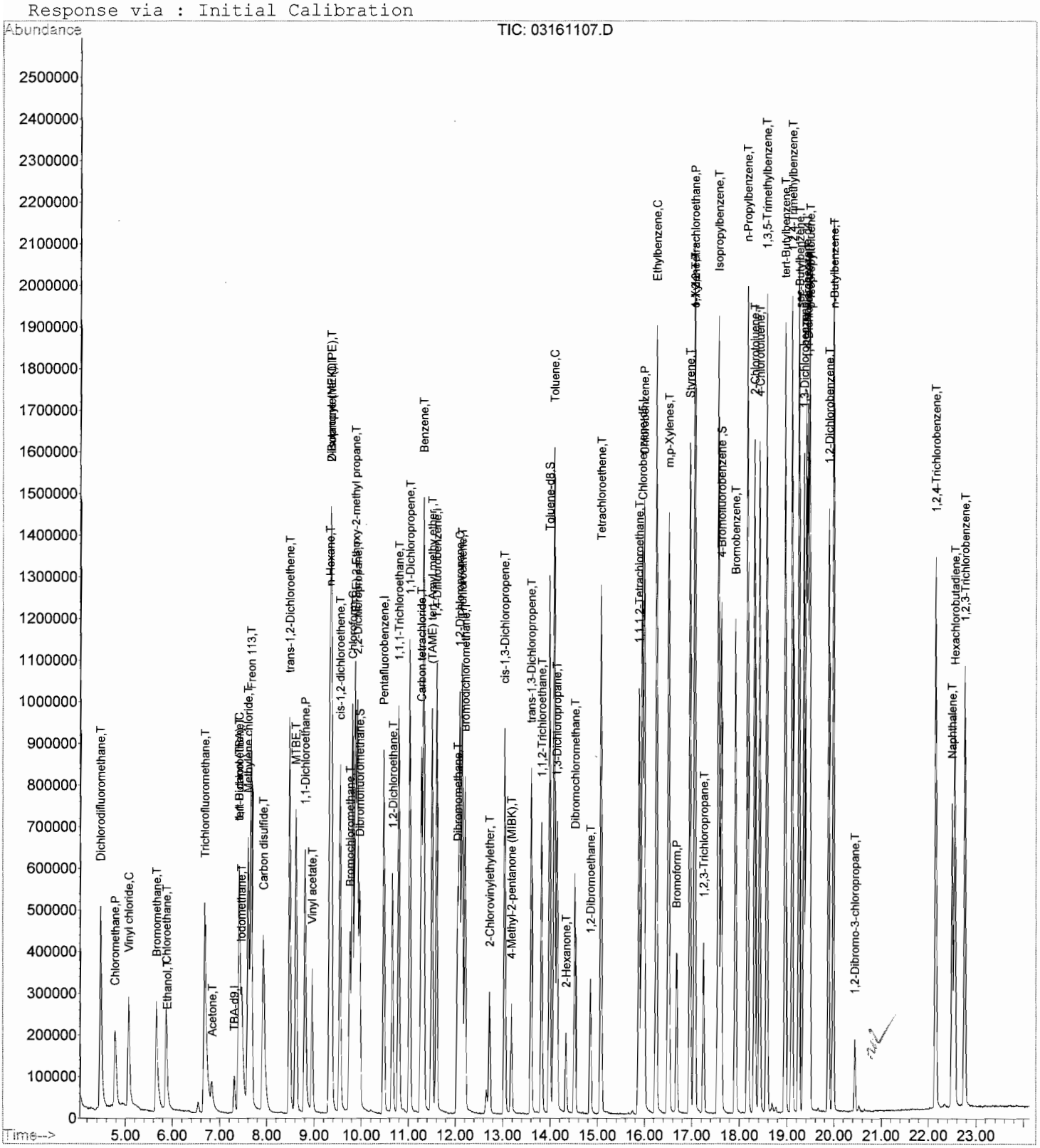
NL

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161107.D Vial: 4
Acq On : 16 Mar 2011 11:46 am Operator: NL
Sample : 11C0599-BS1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 12:12 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161108.D Vial: 5
Acq On : 16 Mar 2011 12:18 pm Operator: NL
Sample : 11C0599-BSD1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 12:44 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	114864	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	711831	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	904250	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	845323	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	477459	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.98	113	349276	21.40 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.60%	
46) Toluene-d8	13.99	98	979978	24.57 ug/L	0.00
Spiked Amount 25.000			Recovery =	98.28%	
60) 4-Bromofluorobenzene	17.62	95	488750	26.21 ug/L	0.00
Spiked Amount 25.000			Recovery =	104.84%	
Target Compounds					Qvalue
2) Ethanol	5.89	45	791	17.28 ug/L #	40
3) tert-Butanol (TBA)	7.41	59	27989	44.46 ug/L #	83
5) Dichlorodifluoromethane	4.47	85	673722	25.83 ug/L	99
6) Chloromethane	4.78	50	341121	23.06 ug/L	98
7) Vinyl chloride	5.07	62	389406	24.61 ug/L	99
8) Bromomethane	5.66	94	298247	23.23 ug/L	90
9) Chloroethane	5.88	64	312410	23.16 ug/L	99
10) Trichlorofluoromethane	6.69	101	898330	27.66 ug/L	99
11) Acetone	6.84	43	89965	25.51 ug/L	97
12) Iodomethane	7.46	142	432107	27.44 ug/L	93
13) 1,1-Dichloroethene	7.41	96	378100	22.67 ug/L	97
14) Methylene chloride	7.60	84	409228	20.83 ug/L	99
15) Freon 113	7.66	101	478596	22.91 ug/L	98
16) Carbon disulfide	7.93	76	1064965	22.97 ug/L	98
17) trans-1,2-Dichloroethene	8.48	96	403067	21.32 ug/L	95
18) MTBE	8.62	73	704755	20.76 ug/L	99
19) 1,1-Dichloroethane	8.81	63	785270	22.29 ug/L	100
20) Vinyl acetate	8.96	43	497079	30.51 ug/L	100
21) n-Hexane	9.33	86	73654	21.18 ug/L	96
22) 2-Butanone (MEK)	9.36	72	22775	24.25 ug/L #	50
23) Diisopropylether (DIPE)	9.36	45	1368706	21.28 ug/L	97
24) cis-1,2-dichloroethene	9.55	96	412799	20.37 ug/L	98
25) Bromochloromethane	9.76	128	143959	20.55 ug/L	99
26) Chloroform	9.82	83	818863	21.69 ug/L	96
27) 2,2-Dichloropropane	9.93	77	662614	21.83 ug/L	98
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	1029751	21.09 ug/L	98
30) 1,2-Dichloroethane	10.66	62	516125	21.87 ug/L	99
31) 1,1,1-Trichloroethane	10.79	97	750898	22.73 ug/L	99
32) (TAME) tert-Amyl methy eth	11.50	73	714033	20.94 ug/L	98
34) 1,1-Dichloropropene	11.03	75	578852	25.76 ug/L	98
35) Carbon tetrachloride	11.28	117	638839	26.86 ug/L	99
36) Benzene	11.32	78	1391243	24.56 ug/L	99
37) Dibromomethane	12.05	93	204823	24.58 ug/L	98
38) 1,2-Dichloropropane	12.09	63	348222	24.40 ug/L	99
39) Trichloroethene	12.14	95	432314	24.61 ug/L	99
40) Bromodichloromethane	12.20	83	548597	24.72 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161108.D Vial: 5
Acq On : 16 Mar 2011 12:18 pm Operator: NL
Sample : 11C0599-BSD1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 12:44 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

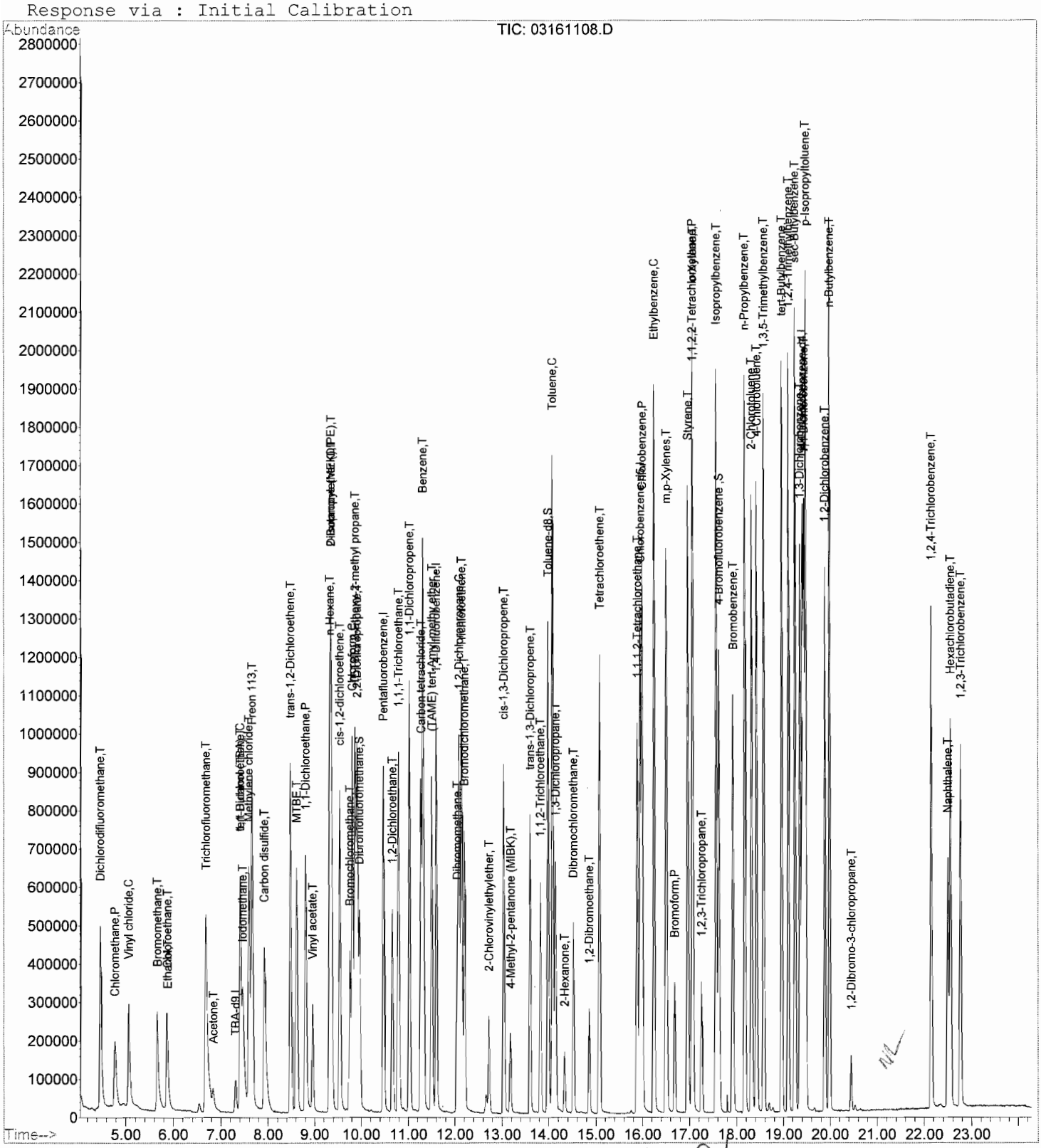
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	2-Chlorovinylethylether	12.73	63	108205	23.16 ug/L	98
42)	cis-1,3-Dichloropropene	13.04	75	532482	24.52 ug/L	97
43)	4-Methyl-2-pentanone (MIBK	13.17	43	184981	26.24 ug/L	99
44)	trans-1,3-Dichloropropene	13.60	75	455833	25.52 ug/L	97
45)	1,1,2-Trichloroethane	13.82	97	222081	23.46 ug/L	99
47)	Toluene	14.09	92	836692	24.31 ug/L	99
49)	1,3-Dichloropropane	14.14	76	380700	23.03 ug/L	98
50)	2-Hexanone	14.33	43	136355	26.27 ug/L	99
51)	Dibromochloromethane	14.52	129	310781	23.76 ug/L	99
52)	1,2-Dibromoethane	14.85	107	222558	22.32 ug/L	99
53)	Tetrachloroethene	15.08	164	358272	24.29 ug/L	99
54)	1,1,1,2-Tetrachloroethane	15.88	131	343498	22.75 ug/L	98
55)	Chlorobenzene	15.99	112	899274	23.16 ug/L	99
56)	Ethylbenzene	16.25	91	1707247	24.58 ug/L	100
57)	m,p-Xylenes	16.51	106	573929	23.45 ug/L	98
58)	Styrene	16.96	104	890993	23.97 ug/L	99
59)	o-Xylene	17.06	106	546977	25.36 ug/L	100
62)	Bromoform	16.68	173	193000	22.67 ug/L	98
63)	1,1,2,2-Tetrachloroethane	17.05	83	213330	23.13 ug/L	99
64)	1,2,3-Trichloropropane	17.25	110	60089	22.45 ug/L	99
65)	Isopropylbenzene	17.56	105	1608852	26.23 ug/L	98
66)	Bromobenzene	17.92	156	384406	22.67 ug/L	99
67)	n-Propylbenzene	18.18	91	1944169	24.47 ug/L	100
68)	2-Chlorotoluene	18.31	91	1164060	23.21 ug/L	98
69)	4-Chlorotoluene	18.42	91	1226615	24.07 ug/L	98
70)	1,3,5-Trimethylbenzene	18.57	105	1324668	24.09 ug/L	100
71)	tert-Butylbenzene	18.96	119	1051556	23.51 ug/L	99
72)	1,2,4-Trimethylbenzene	19.11	105	1298672	23.57 ug/L	99
73)	sec-Butylbenzene	19.25	105	1676376	23.79 ug/L	100
74)	1,3-Dichlorobenzene	19.36	146	688352	22.65 ug/L	100
75)	1,4-Dichlorobenzene	19.44	146	685300	22.55 ug/L	99
76)	p-Isopropyltoluene	19.48	119	1341954	23.60 ug/L	99
77)	1,2-Dichlorobenzene	19.88	146	608429	22.89 ug/L	99
78)	n-Butylbenzene	19.98	91	1419039	24.85 ug/L	100
79)	1,2-Dibromo-3-chloropropan	20.45	75	37699	22.56 ug/L	96
80)	1,2,4-Trichlorobenzene	22.15	180	536158	24.86 ug/L	100
81)	Naphthalene	22.50	128	619845	24.66 ug/L	99
82)	Hexachlorobutadiene	22.55	225	287169	25.23 ug/L	99
83)	1,2,3-Trichlorobenzene	22.77	180	420305	24.31 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161108.D Vial: 5
Acq On : 16 Mar 2011 12:18 pm Operator: NL
Sample : 11C0599-BSD1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 16 12:44 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161109.D Vial: 6
Acq On : 16 Mar 2011 12:50 pm Operator: NL
Sample : 11C0599-MS1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:13 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	106436	200.00 ug/L	0.00
4) Pentafluorobenzene	10.47	168	705314	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.60	114	902088	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	845312	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	466090	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.98	113	333350	20.61 ug/L	0.00
Spiked Amount 25.000			Recovery = 82.44%		
46) Toluene-d8	13.99	98	1000123	25.14 ug/L	0.00
Spiked Amount 25.000			Recovery = 100.56%		
60) 4-Bromofluorobenzene	17.62	95	482493	25.88 ug/L	0.00
Spiked Amount 25.000			Recovery = 103.52%		

Target Compounds					Qvalue
2) Ethanol	5.91	45	1492	35.17 ug/L #	37
3) tert-Butanol (TBA)	7.42	59	31505	55.08 ug/L #	85
5) Dichlorodifluoromethane	4.48	85	710839	27.51 ug/L	99
6) Chloromethane	4.79	50	361733	24.68 ug/L	100
7) Vinyl chloride	5.08	62	518390	33.07 ug/L	99
8) Bromomethane	5.67	94	265617	21.04 ug/L	97
9) Chloroethane	5.88	64	297050	22.23 ug/L	99
10) Trichlorofluoromethane	6.69	101	916486	28.48 ug/L	100
11) Acetone	6.87	43	118334	33.86 ug/L #	82
12) Iodomethane	7.48	142	316662	20.76 ug/L	92
13) 1,1-Dichloroethene	7.42	96	401523	24.30 ug/L	100
14) Methylene chloride	7.60	84	386409	19.85 ug/L	97
15) Freon 113	7.67	101	504483	24.37 ug/L	99
16) Carbon disulfide	7.93	76	1101977	23.98 ug/L	98
17) trans-1,2-Dichloroethene	8.49	96	422054	22.54 ug/L	96
18) MTBE	8.62	73	755514	22.46 ug/L	99
19) 1,1-Dichloroethane	8.82	63	780592	22.37 ug/L	99
20) Vinyl acetate	8.96	43	516441	31.99 ug/L	100
21) n-Hexane	9.33	86	80908	23.48 ug/L	94
22) 2-Butanone (MEK)	9.35	72	20483	22.01 ug/L #	86
23) Diisopropylether (DIPE)	9.37	45	1363120	21.39 ug/L	96
24) cis-1,2-dichloroethene	9.55	96	418257	20.83 ug/L	99
25) Bromochloromethane	9.76	128	130052	18.74 ug/L	96
26) Chloroform	9.82	83	818910	21.89 ug/L	97
27) 2,2-Dichloropropane	9.92	77	651473	21.66 ug/L	97
28) (ETBE) 2-Ethoxy-2-methyl p	9.87	59	1029885	21.28 ug/L	98
30) 1,2-Dichloroethane	10.66	62	510519	21.83 ug/L	99
31) 1,1,1-Trichloroethane	10.79	97	761510	23.26 ug/L	100
32) (TAME) tert-Amyl methy eth	11.50	73	699646	20.71 ug/L	98
34) 1,1-Dichloropropene	11.03	75	599566	26.75 ug/L	99
35) Carbon tetrachloride	11.27	117	650145	27.40 ug/L	100
36) Benzene	11.33	78	13388166	236.94 ug/L	94
37) Dibromomethane	12.05	93	199622	24.01 ug/L	100
38) 1,2-Dichloropropane	12.09	63	337032	23.67 ug/L	98
39) Trichloroethene	12.15	95	445564	25.42 ug/L	99
40) Bromodichloromethane	12.21	83	526681	23.79 ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161109.D Vial: 6
Acq On : 16 Mar 2011 12:50 pm Operator: NL
Sample : 11C0599-MS1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:13 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

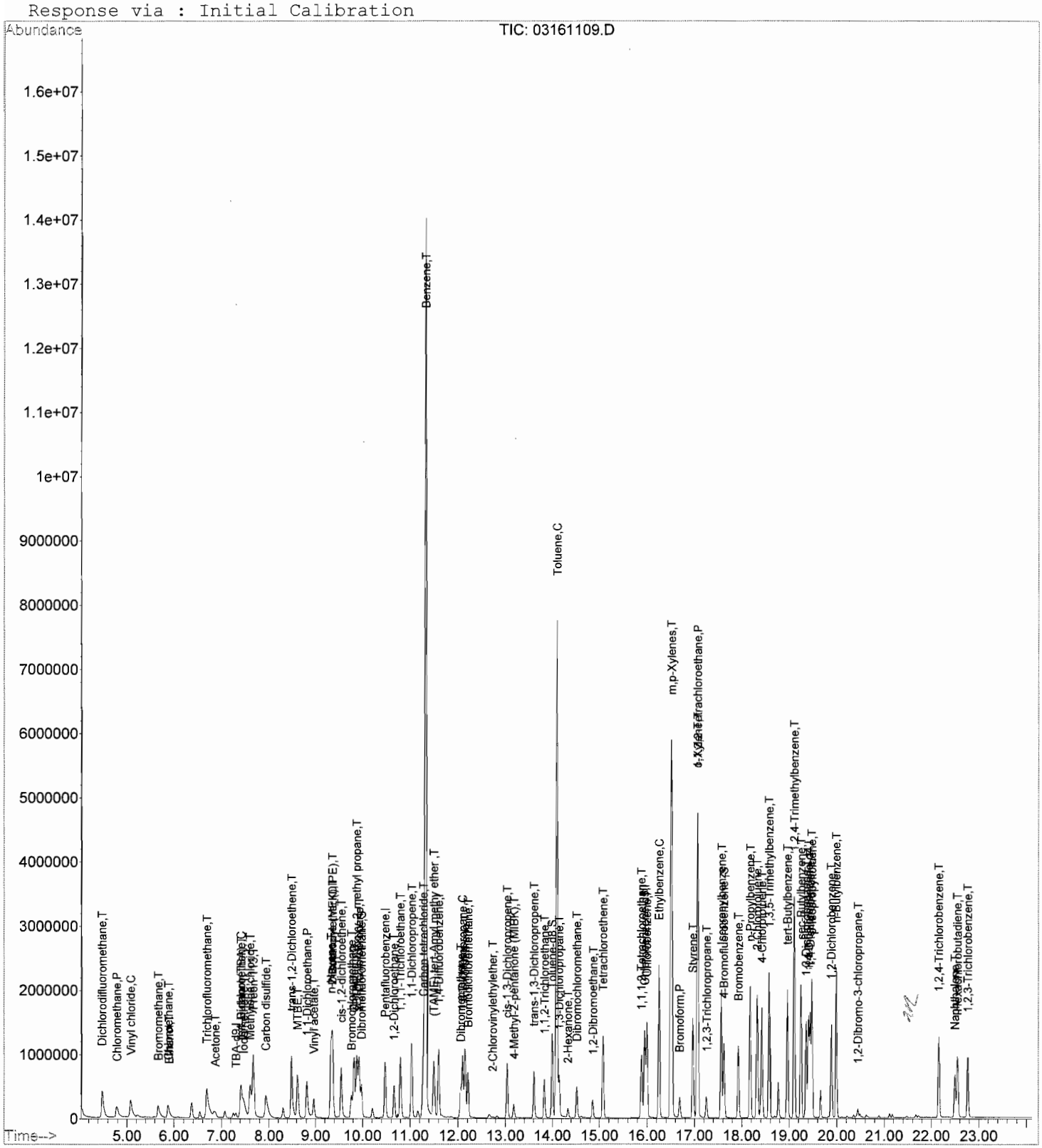
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	2-Chlorovinylethylether	12.73	63	3245	0.70 ug/L	#	77
42)	cis-1,3-Dichloropropene	13.04	75	512535	23.66 ug/L		97
43)	4-Methyl-2-pentanone (MIBK	13.18	43	184691	26.27 ug/L		100
44)	trans-1,3-Dichloropropene	13.60	75	442324	24.82 ug/L		99
45)	1,1,2-Trichloroethane	13.83	97	220759	23.38 ug/L		99
47)	Toluene	14.09	92	4041767	117.70 ug/L		98
49)	1,3-Dichloropropane	14.14	76	360181	21.79 ug/L		99
50)	2-Hexanone	14.33	43	120968	23.31 ug/L		98
51)	Dibromochloromethane	14.52	129	307863	23.53 ug/L		98
52)	1,2-Dibromoethane	14.86	107	226051	22.67 ug/L		100
53)	Tetrachloroethene	15.08	164	368974	25.02 ug/L		100
54)	1,1,1,2-Tetrachloroethane	15.88	131	339555	22.49 ug/L		98
55)	Chlorobenzene	16.00	112	915657	23.59 ug/L		99
56)	Ethylbenzene	16.25	91	2110706	30.39 ug/L		99
57)	m,p-Xylenes	16.51	106	2398179	98.00 ug/L		99
58)	Styrene	16.96	104	870818	23.43 ug/L		99
59)	o-Xylene	17.07	106	1390151	66.24 ug/L		98
62)	Bromoform	16.68	173	181137	21.79 ug/L		100
63)	1,1,2,2-Tetrachloroethane	17.05	83	196550	21.83 ug/L		95
64)	1,2,3-Trichloropropane	17.26	110	61272	23.45 ug/L		96
65)	Isopropylbenzene	17.57	105	1680973	28.08 ug/L		100
66)	Bromobenzene	17.92	156	387060	23.38 ug/L		100
67)	n-Propylbenzene	18.18	91	2026359	26.13 ug/L		100
68)	2-Chlorotoluene	18.32	91	1198311	24.48 ug/L		96
69)	4-Chlorotoluene	18.42	91	1235848	24.84 ug/L		98
70)	1,3,5-Trimethylbenzene	18.57	105	1561306	29.08 ug/L		100
71)	tert-Butylbenzene	18.96	119	1057680	24.22 ug/L		98
72)	1,2,4-Trimethylbenzene	19.11	105	2286793	42.51 ug/L		99
73)	sec-Butylbenzene	19.25	105	1687007	24.52 ug/L		100
74)	1,3-Dichlorobenzene	19.36	146	671753	22.65 ug/L		99
75)	1,4-Dichlorobenzene	19.44	146	685464	23.11 ug/L		100
76)	p-Isopropyltoluene	19.48	119	1363978	24.57 ug/L		100
77)	1,2-Dichlorobenzene	19.89	146	591720	22.80 ug/L		100
78)	n-Butylbenzene	19.98	91	1426772	25.59 ug/L		99
79)	1,2-Dibromo-3-chloropropan	20.45	75	37410	22.94 ug/L		90
80)	1,2,4-Trichlorobenzene	22.16	180	530295	25.19 ug/L		100
81)	Naphthalene	22.50	128	633406	25.82 ug/L		99
82)	Hexachlorobutadiene	22.56	225	277804	25.01 ug/L		99
83)	1,2,3-Trichlorobenzene	22.77	180	404953	23.99 ug/L		99

(#) = qualifier out of range (m) = manual integration
03161109.D 031411.M Thu Mar 17 11:22:20 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161109.D Vial: 6
Acq On : 16 Mar 2011 12:50 pm Operator: NL
Sample : 11C0599-MS1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:13 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161110.D Vial: 7
Acq On : 16 Mar 2011 1:23 pm Operator: NL
Sample : 11C0599-MSD1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:11 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	115594	200.00 ug/L	0.00
4) Pentafluorobenzene	10.48	168	718448	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.61	114	935427	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	869651	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.40	152	464209	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.98	113	342057	20.76 ug/L	0.01
Spiked Amount 25.000			Recovery =	83.04%	
46) Toluene-d8	14.00	98	998168	24.19 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.76%	
60) 4-Bromofluorobenzene	17.62	95	482021	25.13 ug/L	0.00
Spiked Amount 25.000			Recovery =	100.52%	
Target Compounds					Qvalue
2) Ethanol	5.93	45	1171	25.42 ug/L	74
3) tert-Butanol (TBA)	7.41	59	32937	52.84 ug/L #	83
5) Dichlorodifluoromethane	4.48	85	686210	26.07 ug/L	100
6) Chloromethane	4.78	50	381884	25.57 ug/L	99
7) Vinyl chloride	5.07	62	407123	25.50 ug/L	98
8) Bromomethane	5.67	94	326818	25.08 ug/L	94
9) Chloroethane	5.88	64	307136	22.56 ug/L	98
10) Trichlorofluoromethane	6.69	101	903112	27.55 ug/L	98
11) Acetone	6.86	43	116906	32.84 ug/L #	83
12) Iodomethane	7.47	142	435375	27.40 ug/L	96
13) 1,1-Dichloroethene	7.41	96	386887	22.98 ug/L	98
14) Methylene chloride	7.60	84	398556	20.10 ug/L	98
15) Freon 113	7.67	101	485250	23.01 ug/L	99
16) Carbon disulfide	7.93	76	1110689	23.73 ug/L	100
17) trans-1,2-Dichloroethene	8.49	96	419031	21.97 ug/L	97
18) MTBE	8.62	73	727639	21.24 ug/L	99
19) 1,1-Dichloroethane	8.81	63	760175	21.38 ug/L	99
20) Vinyl acetate	8.96	43	555923	33.81 ug/L	99
21) n-Hexane	9.33	86	77550	22.10 ug/L	98
22) 2-Butanone (MEK)	9.35	72	20487	21.61 ug/L #	75
23) Diisopropylether (DIPE)	9.36	45	1324305	20.40 ug/L	97
24) cis-1,2-dichloroethene	9.55	96	423620	20.71 ug/L	99
25) Bromochloromethane	9.77	128	136956	19.37 ug/L	97
26) Chloroform	9.82	83	793760	20.83 ug/L	98
27) 2,2-Dichloropropane	9.93	77	691026	22.56 ug/L	95
28) (ETBE) 2-Ethoxy-2-methyl p	9.88	59	1013197	20.56 ug/L	97
30) 1,2-Dichloroethane	10.66	62	493526	20.72 ug/L	100
31) 1,1,1-Trichloroethane	10.80	97	747869	22.43 ug/L	99
32) (TAME) tert-Amyl methy eth	11.51	73	677451	19.68 ug/L	99
34) 1,1-Dichloropropene	11.03	75	585232	25.18 ug/L	99
35) Carbon tetrachloride	11.28	117	635248	25.82 ug/L	99
36) Benzene	11.32	78	13792652	235.40 ug/L	95
37) Dibromomethane	12.06	93	193125	22.40 ug/L	99
38) 1,2-Dichloropropane	12.10	63	337128	22.83 ug/L	99
39) Trichloroethene	12.15	95	432601	23.80 ug/L	99
40) Bromodichloromethane	12.21	83	520068	22.65 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161110.D Vial: 7
Acq On : 16 Mar 2011 1:23 pm Operator: NL
Sample : 11C0599-MSD1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:11 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

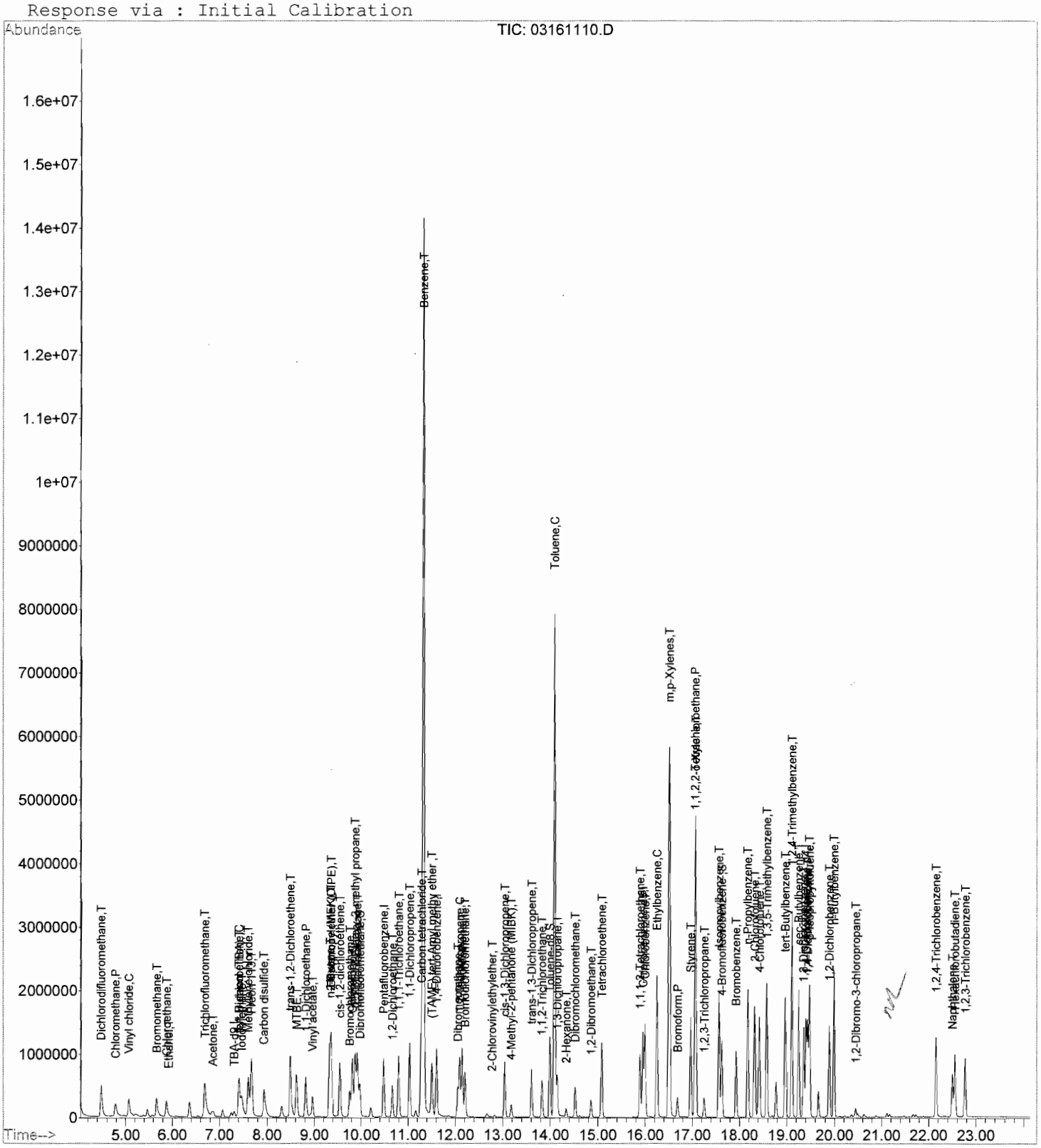
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	2-Chlorovinylethylether	12.78	63	883	0.18	ug/L	#	29
42)	cis-1,3-Dichloropropene	13.04	75	513987	22.88	ug/L		97
43)	4-Methyl-2-pentanone (MIBK	13.18	43	174564	23.94	ug/L		98
44)	trans-1,3-Dichloropropene	13.61	75	442718	23.96	ug/L		99
45)	1,1,2-Trichloroethane	13.83	97	210953	21.54	ug/L		98
47)	Toluene	14.09	92	4038495	113.41	ug/L		98
49)	1,3-Dichloropropane	14.15	76	354473	20.84	ug/L		97
50)	2-Hexanone	14.33	43	108188	20.26	ug/L		98
51)	Dibromochloromethane	14.53	129	293399	21.80	ug/L		99
52)	1,2-Dibromoethane	14.86	107	216554	21.11	ug/L		100
53)	Tetrachloroethene	15.08	164	349572	23.04	ug/L		99
54)	1,1,1,2-Tetrachloroethane	15.89	131	330196	21.25	ug/L		99
55)	Chlorobenzene	16.00	112	885479	22.17	ug/L		99
56)	Ethylbenzene	16.25	91	2023293	28.31	ug/L		100
57)	m,p-Xylenes	16.51	106	2314877	91.95	ug/L		99
58)	Styrene	16.97	104	862904	22.56	ug/L		100
59)	o-Xylene	17.07	106	1387563	64.19	ug/L		99
62)	Bromoform	16.69	173	176642	21.34	ug/L		100
63)	1,1,2,2-Tetrachloroethane	17.05	83	190455	21.24	ug/L		97
64)	1,2,3-Trichloropropane	17.25	110	57907	22.25	ug/L		95
65)	Isopropylbenzene	17.57	105	1612958	27.05	ug/L		100
66)	Bromobenzene	17.93	156	369220	22.39	ug/L		99
67)	n-Propylbenzene	18.17	91	1973462	25.55	ug/L		100
68)	2-Chlorotoluene	18.32	91	1139974	23.38	ug/L		96
69)	4-Chlorotoluene	18.43	91	1159298	23.39	ug/L		99
70)	1,3,5-Trimethylbenzene	18.58	105	1512731	28.29	ug/L		99
71)	tert-Butylbenzene	18.97	119	1011702	23.26	ug/L		98
72)	1,2,4-Trimethylbenzene	19.11	105	2164264	40.39	ug/L		99
73)	sec-Butylbenzene	19.25	105	1595388	23.28	ug/L		100
74)	1,3-Dichlorobenzene	19.36	146	644663	21.82	ug/L		99
75)	1,4-Dichlorobenzene	19.45	146	645000	21.83	ug/L		100
76)	p-Isopropyltoluene	19.48	119	1282442	23.19	ug/L		98
77)	1,2-Dichlorobenzene	19.89	146	571417	22.11	ug/L		100
78)	n-Butylbenzene	19.99	91	1380353	24.86	ug/L		99
79)	1,2-Dibromo-3-chloropropan	20.45	75	35656	21.95	ug/L		96
80)	1,2,4-Trichlorobenzene	22.16	180	518173	24.71	ug/L		99
81)	Naphthalene	22.50	128	664048	27.18	ug/L		100
82)	Hexachlorobutadiene	22.55	225	276257	24.97	ug/L		100
83)	1,2,3-Trichlorobenzene	22.77	180	411341	24.47	ug/L		99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161110.D Vial: 7
Acq On : 16 Mar 2011 1:23 pm Operator: NL
Sample : 11C0599-MSD1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:11 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161111.D Vial: 8
Acq On : 16 Mar 2011 1:55 pm Operator: NL
Sample : BLK Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:14 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

clean out

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) TBA-d9	7.31	65	94570	200.00	ug/L	0.00
4) Pentafluorobenzene	10.48	168	707358	25.00	ug/L	0.00
33) 1,4-Difluorobenzene	11.61	114	903320	25.00	ug/L	0.00
48) Chlorobenzene-d5	15.95	117	817033	25.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	479221	25.00	ug/L	0.00
System Monitoring Compounds						
29) Dibromofluoromethane	9.98	113	330379	20.37	ug/L	0.01
Spiked Amount 25.000			Recovery = 81.48%			
46) Toluene-d8	14.00	98	982784	24.67	ug/L	0.00
Spiked Amount 25.000			Recovery = 98.68%			
60) 4-Bromofluorobenzene	17.62	95	486618	27.00	ug/L	0.00
Spiked Amount 25.000			Recovery = 108.00%			

Target Compounds						Qvalue
2) Ethanol	5.91	45	757	20.08	ug/L	69
3) tert-Butanol (TBA)	7.44	59	213	Below Cal	#	81
6) Chloromethane	4.78	50	1736	0.12	ug/L #	1
8) Bromomethane	5.68	94	1288	0.93	ug/L #	65
11) Acetone	6.87	43	5135	1.47	ug/L #	71
12) Iodomethane	7.47	142	1134	1.86	ug/L #	86
14) Methylene chloride	7.60	84	2412	0.12	ug/L	85
16) Carbon disulfide	7.95	76	14060	0.31	ug/L #	97
17) trans-1,2-Dichloroethene	8.49	96	1762	0.09	ug/L #	79
24) cis-1,2-dichloroethene	9.56	96	1886	0.09	ug/L #	80
25) Bromochloromethane	9.77	128	716	0.10	ug/L	96
26) Chloroform	9.82	83	4418	0.12	ug/L #	95
36) Benzene	11.33	78	13559	0.24	ug/L	97
37) Dibromomethane	12.05	93	1551	0.19	ug/L #	82
42) cis-1,3-Dichloropropene	13.05	75	1974	0.09	ug/L #	48
43) 4-Methyl-2-pentanone (MIBK	13.19	43	3906	0.55	ug/L	97
44) trans-1,3-Dichloropropene	13.62	75	2298	0.13	ug/L #	28
47) Toluene	14.10	92	8218	0.24	ug/L	98
50) 2-Hexanone	14.34	43	4170	0.83	ug/L #	78
54) 1,1,1,2-Tetrachloroethane	15.89	131	1333	0.09	ug/L #	25
55) Chlorobenzene	16.00	112	4472	0.12	ug/L #	38
56) Ethylbenzene	16.26	91	8392	0.13	ug/L #	76
57) m,p-Xylenes	16.51	106	9013	0.38	ug/L	96
58) Styrene	16.97	104	5710	0.16	ug/L #	89
63) 1,1,2,2-Tetrachloroethane	17.06	83	2060	0.22	ug/L #	84
64) 1,2,3-Trichloropropane	17.25	110	630	0.23	ug/L #	81
65) Isopropylbenzene	17.56	105	7917	0.13	ug/L	98
66) Bromobenzene	17.93	156	3472	0.20	ug/L	92
67) n-Propylbenzene	18.18	91	12651	0.16	ug/L	95
68) 2-Chlorotoluene	18.32	91	8911	0.18	ug/L #	89
69) 4-Chlorotoluene	18.43	91	9119	0.18	ug/L	97
70) 1,3,5-Trimethylbenzene	18.58	105	8319	0.15	ug/L	99
71) tert-Butylbenzene	18.97	119	8270	0.18	ug/L #	79
72) 1,2,4-Trimethylbenzene	19.11	105	15153	0.27	ug/L	100
73) sec-Butylbenzene	19.25	105	13766	0.19	ug/L	94
74) 1,3-Dichlorobenzene	19.36	146	10007	0.33	ug/L	94

NL 3/14/11

(#) = qualifier out of range (m) = manual integration
03161111.D 031411.M Thu Mar 17 11:22:33 2011

3/17/11

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161111.D Vial: 8
Acq On : 16 Mar 2011 1:55 pm Operator: NL
Sample : BLK Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:14 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
75)	1,4-Dichlorobenzene	19.45	146	9627	0.32 ug/L	#	62
76)	p-Isopropyltoluene	19.48	119	11808	0.21 ug/L	#	87
77)	1,2-Dichlorobenzene	19.89	146	8935	0.33 ug/L		96
78)	n-Butylbenzene	19.99	91	13989	0.24 ug/L		98
79)	1,2-Dibromo-3-chloropropan	20.45	75	1692	1.01 ug/L	#	59
80)	1,2,4-Trichlorobenzene	22.16	180	17648	0.82 ug/L		98
81)	Naphthalene	22.50	128	41796	1.66 ug/L		100
82)	Hexachlorobutadiene	22.55	225	6839	0.60 ug/L		98
83)	1,2,3-Trichlorobenzene	22.77	180	23519	1.36 ug/L		99

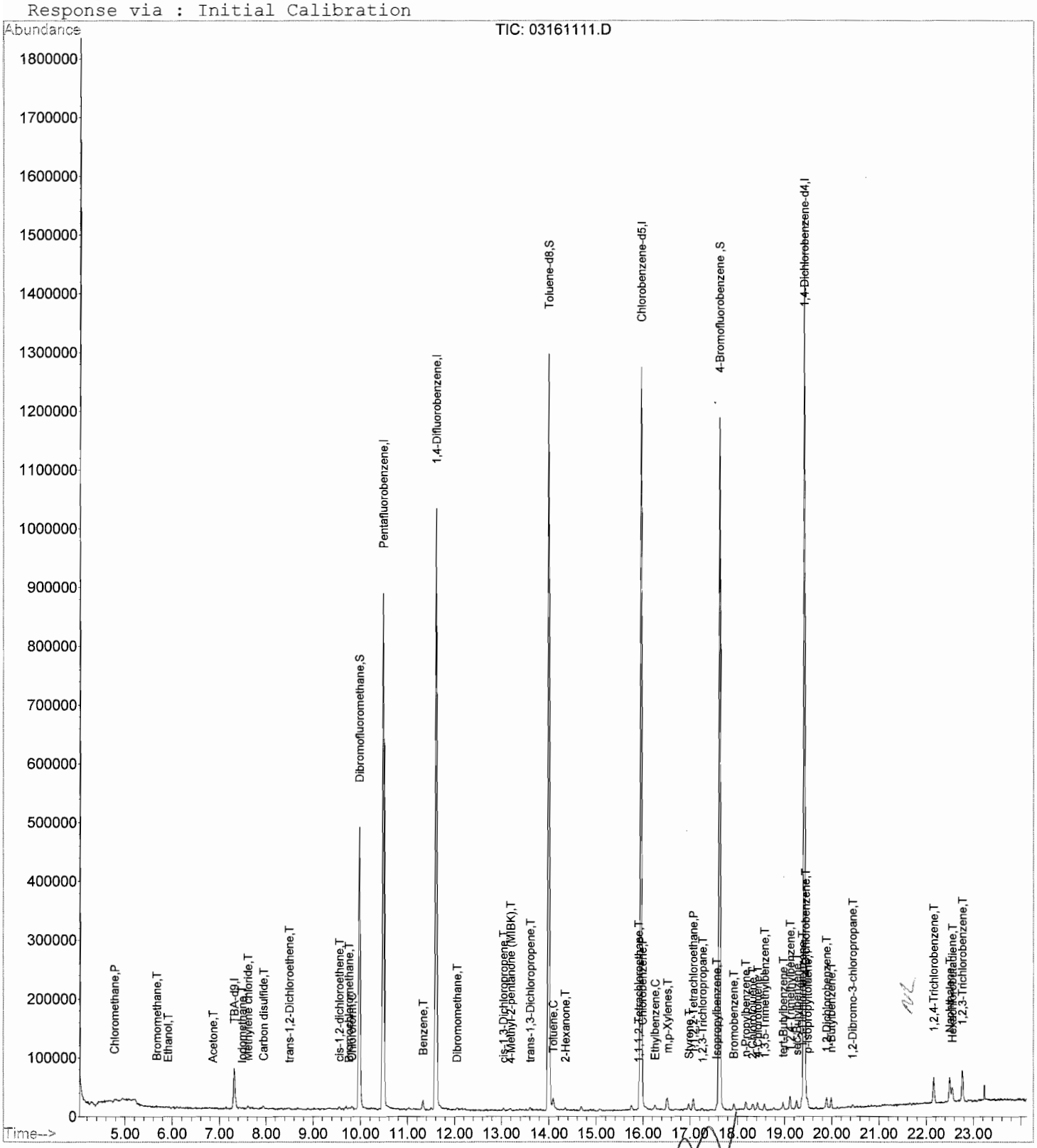
NL

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161111.D Vial: 8
Acq On : 16 Mar 2011 1:55 pm Operator: NL
Sample : BLK Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:14 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161112.D Vial: 9
Acq On : 16 Mar 2011 2:27 pm Operator: NL
Sample : 11C0599-BLK1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:11 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.32	65	106980	200.00 ug/L	0.00
4) Pentafluorobenzene	10.48	168	668095	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.61	114	860596	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.96	117	798925	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	472150	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.98	113	323707	21.13 ug/L	0.02
Spiked Amount 25.000			Recovery =	84.52%	
46) Toluene-d8	14.00	98	928756	24.47 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.88%	
60) 4-Bromofluorobenzene	17.63	95	467212	26.51 ug/L	0.00
Spiked Amount 25.000			Recovery =	106.04%	

Target Compounds					Qvalue
2) Ethanol	5.91	45	810	19.00 ug/L	96 NT
3) tert-Butanol (TBA)	7.42	59	110	Below Cal #	81
6) Chloromethane	4.82	50	3056	0.22 ug/L	87 LRL
8) Bromomethane	5.68	94	679	0.88 ug/L	98 NSM
11) Acetone	6.86	43	3649	1.10 ug/L #	74 ND
12) Iodomethane	7.48	142	450	1.82 ug/L #	50 NSM
16) Carbon disulfide	7.93	76	8952	0.21 ug/L #	89 LRL
26) Chloroform	9.83	83	3432	0.10 ug/L #	83
37) Dibromomethane	12.06	93	718	0.09 ug/L #	30
43) 4-Methyl-2-pentanone (MIBK	13.19	43	857	0.13 ug/L #	56
45) 1,1,2-Trichloroethane	14.01	97	13864	1.54 ug/L #	1 WRT
54) 1,1,1,2-Tetrachloroethane	15.92	131	1330	0.09 ug/L #	11 ND
59) o-Xylene	17.07	106	889	Below Cal #	69
74) 1,3-Dichlorobenzene	19.37	146	3079	0.10 ug/L	90
75) 1,4-Dichlorobenzene	19.44	146	3457	0.12 ug/L #	51
79) 1,2-Dibromo-3-chloropropan	20.45	75	464	0.28 ug/L #	8 LRL
80) 1,2,4-Trichlorobenzene	22.16	180	4882	0.23 ug/L	98
81) Naphthalene	22.50	128	7680	0.31 ug/L	100
82) Hexachlorobutadiene	22.55	225	1280	0.11 ug/L #	88
83) 1,2,3-Trichlorobenzene	22.77	180	5027	0.29 ug/L	93

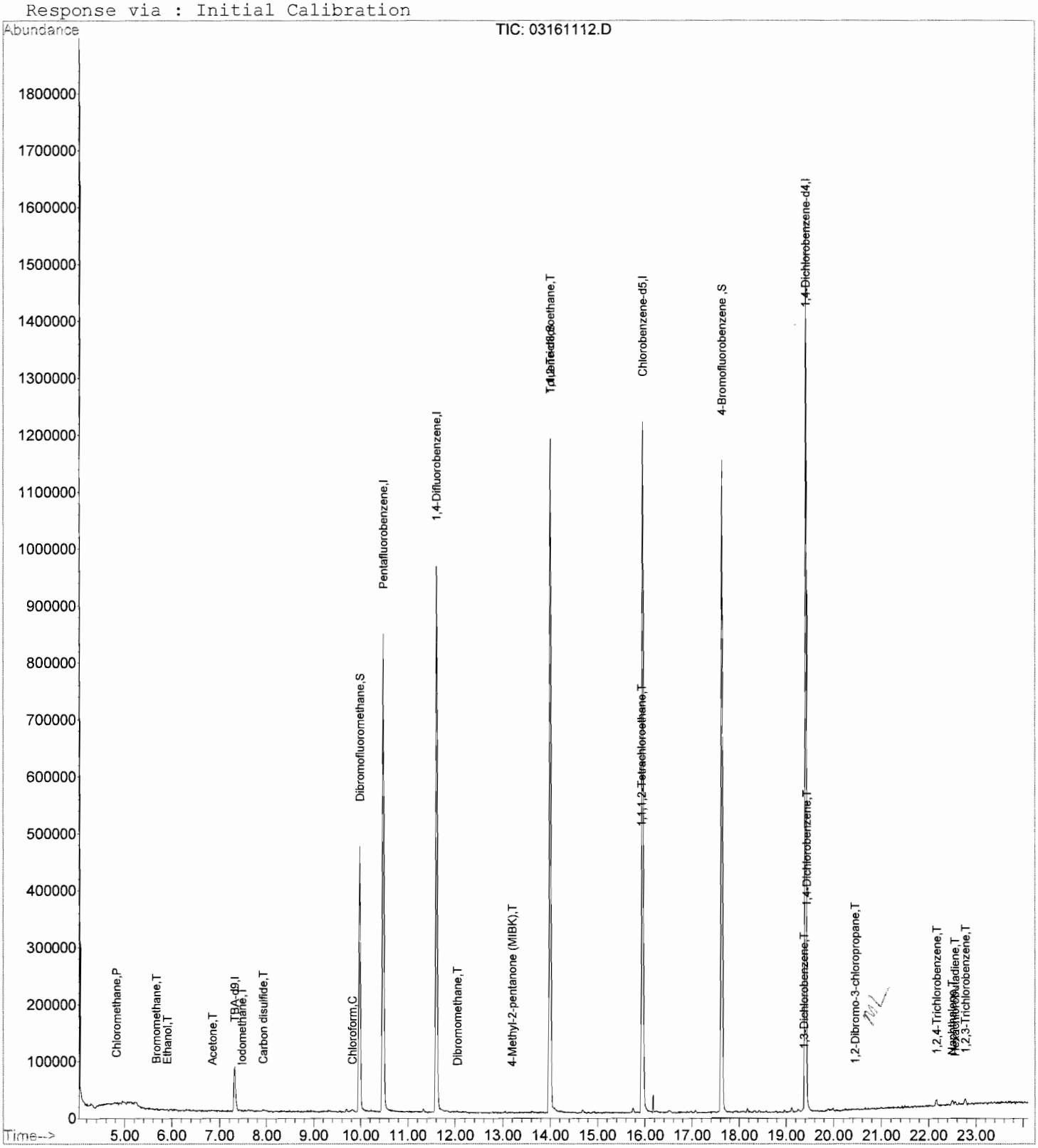
NL 3/17/11

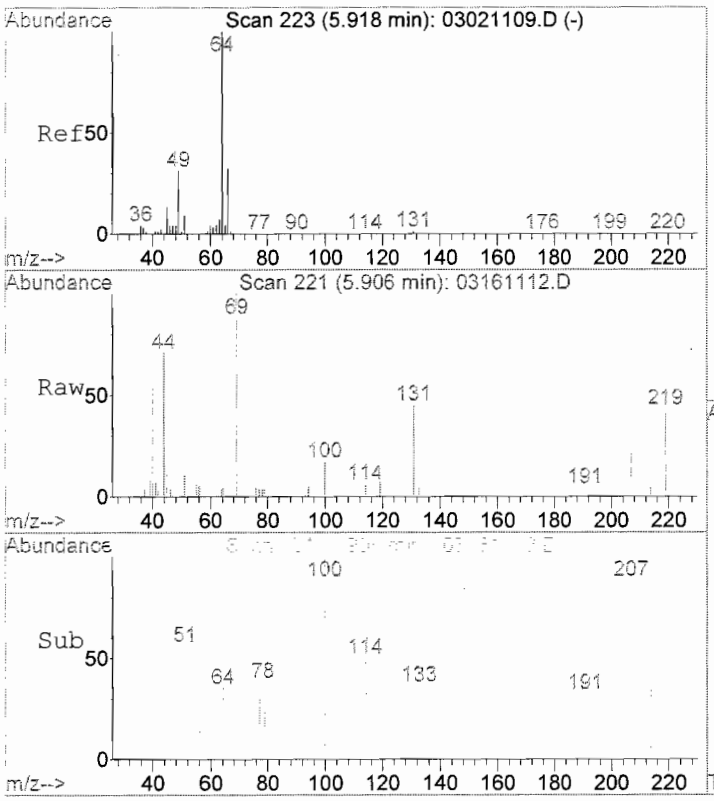
(#) = qualifier out of range (m) = manual integration
03161112.D 031411.M Thu Mar 17 11:22:43 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161112.D Vial: 9
Acq On : 16 Mar 2011 2:27 pm Operator: NL
Sample : 11C0599-BLK1 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 11:11 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration

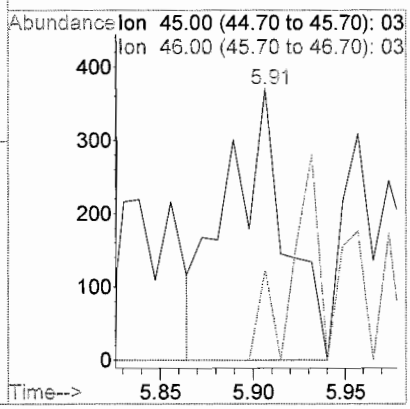


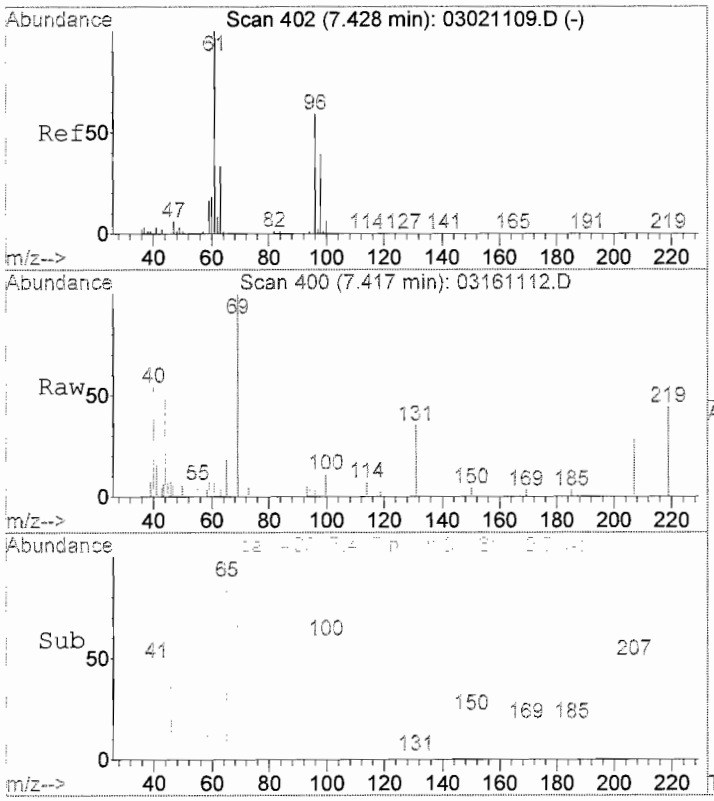


#2
Ethanol
Concen: 19.00 ug/L
RT: 5.91 min Scan# 221
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 45 Resp: 810

Ion	Ratio	Lower	Upper
45	100		
46	35.1	17.5	57.5

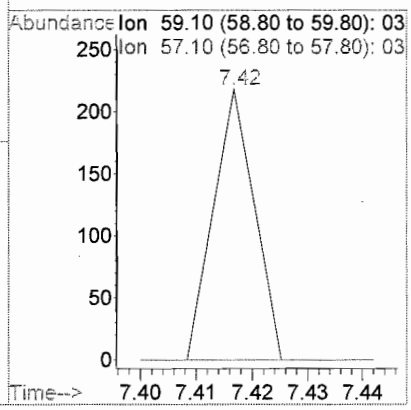


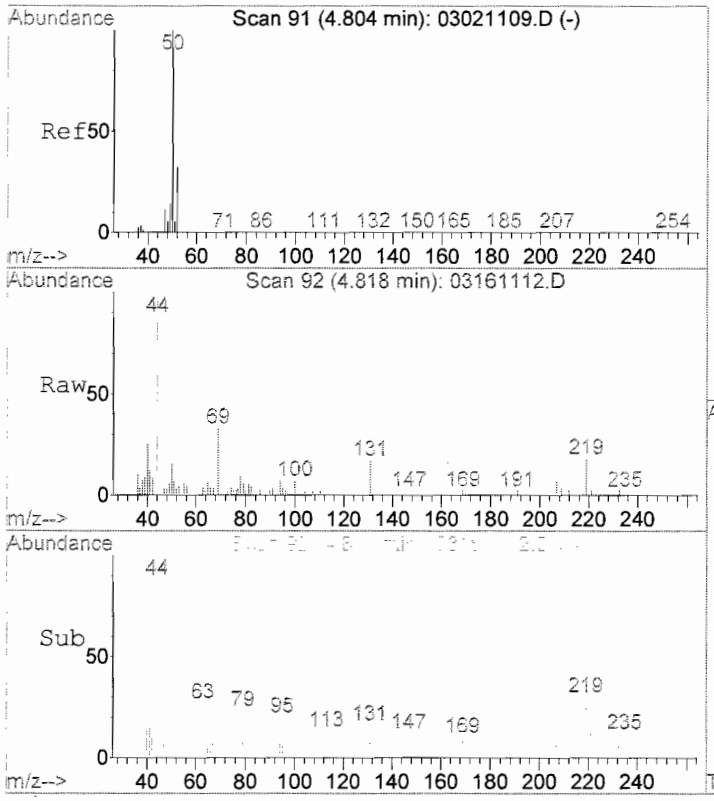


#3
tert-Butanol (TBA)
Concen: Below Cal
RT: 7.42 min Scan# 400
Delta R.T. -0.00 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 59 Resp: 110

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.0	7.6#

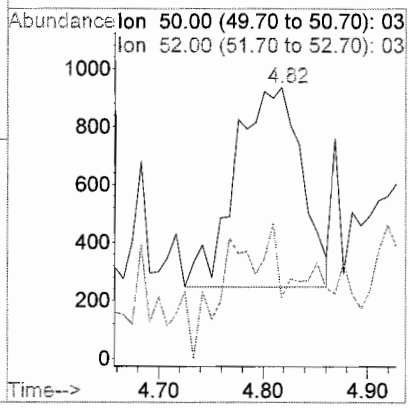


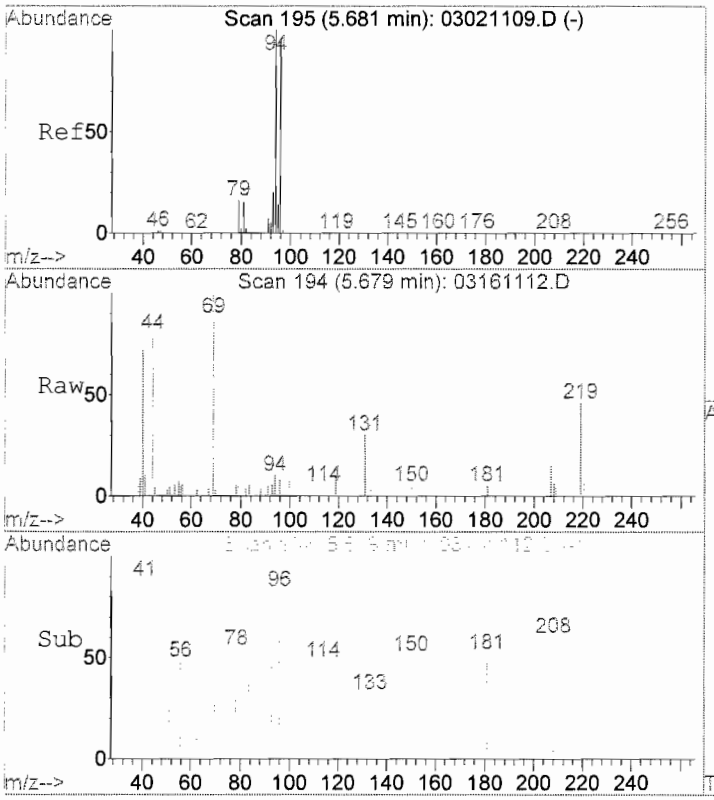


#6
Chloromethane
Concen: 0.22 ug/L
RT: 4.82 min Scan# 92
Delta R.T. 0.04 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 50 Resp: 3056

Ion	Ratio	Lower	Upper
50	100		
52	25.9	13.2	53.2

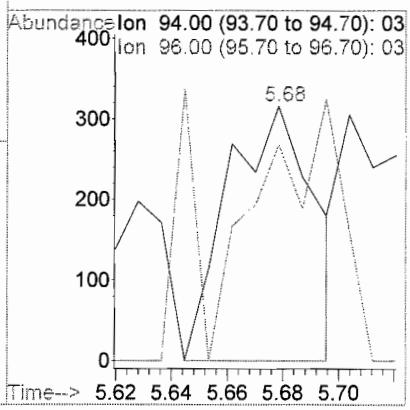


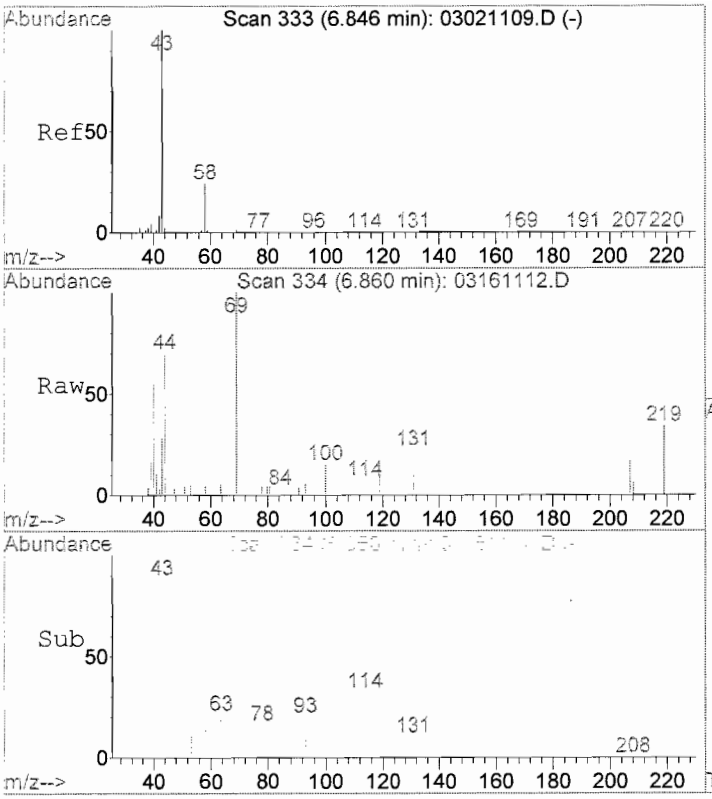


#8
Bromomethane
Concen: 0.88 ug/L
RT: 5.68 min Scan# 194
Delta R.T. 0.02 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 94 Resp: 679

Ion	Ratio	Lower	Upper
94	100		
96	97.2	79.5	119.3

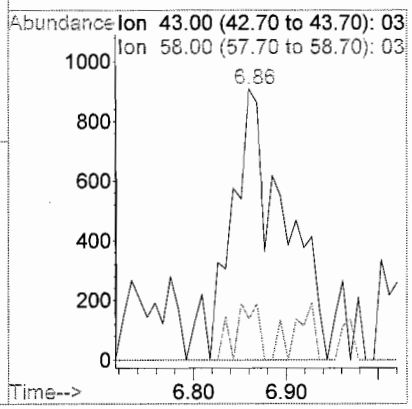


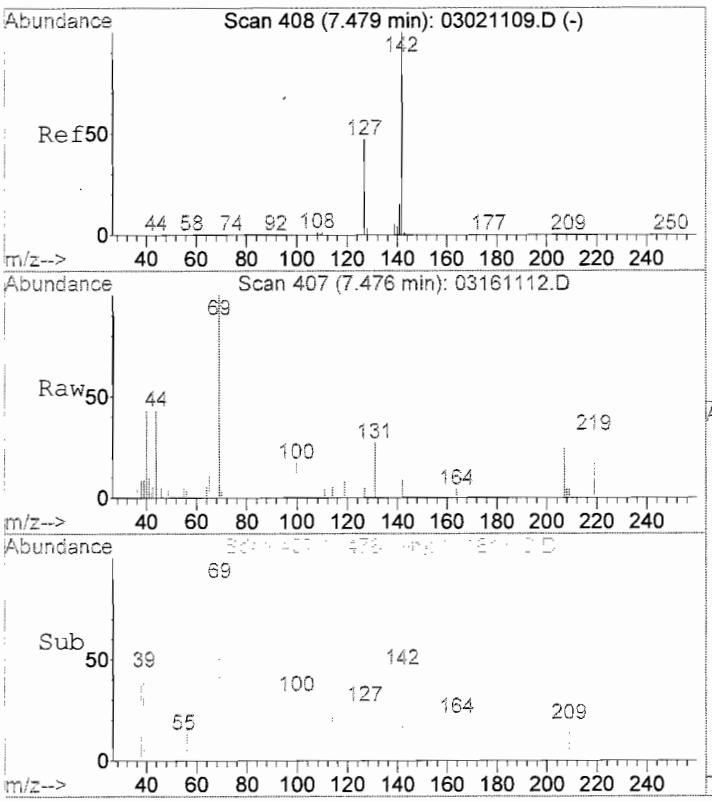


#11
Acetone
Concen: 1.10 ug/L
RT: 6.86 min Scan# 334
Delta R.T. 0.03 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 43 Resp: 3649

Ion	Ratio	Lower	Upper
43	100		
58	9.2	17.0	25.6#

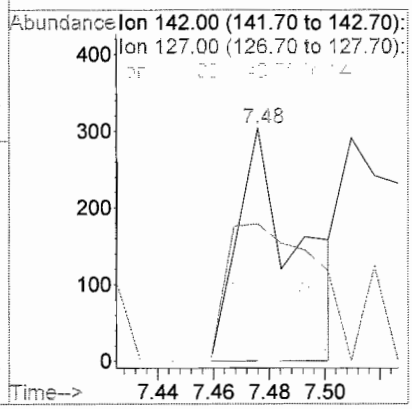


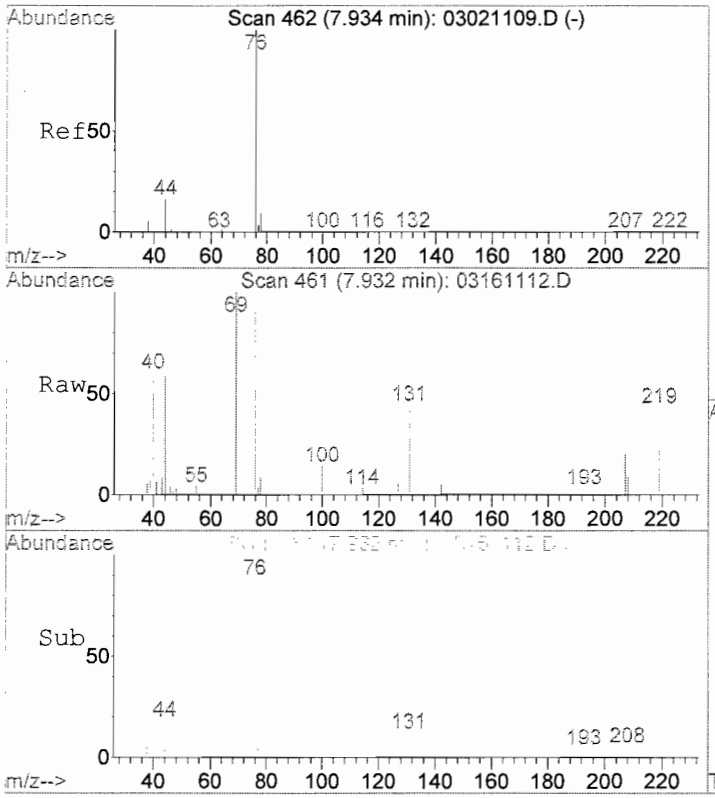


#12
Iodomethane
Concen: 1.82 ug/L
RT: 7.48 min Scan# 407
Delta R.T. 0.02 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:142 Resp: 450

Ion	Ratio	Lower	Upper
142	100		
127	100.9	44.9	67.3#
141	12.0	13.1	19.7#

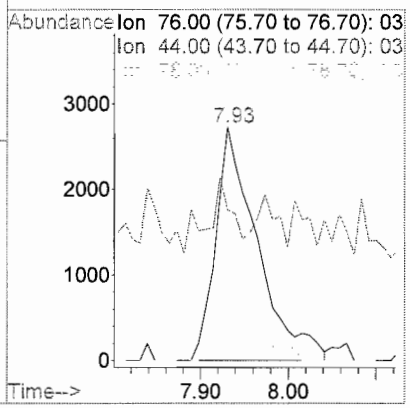


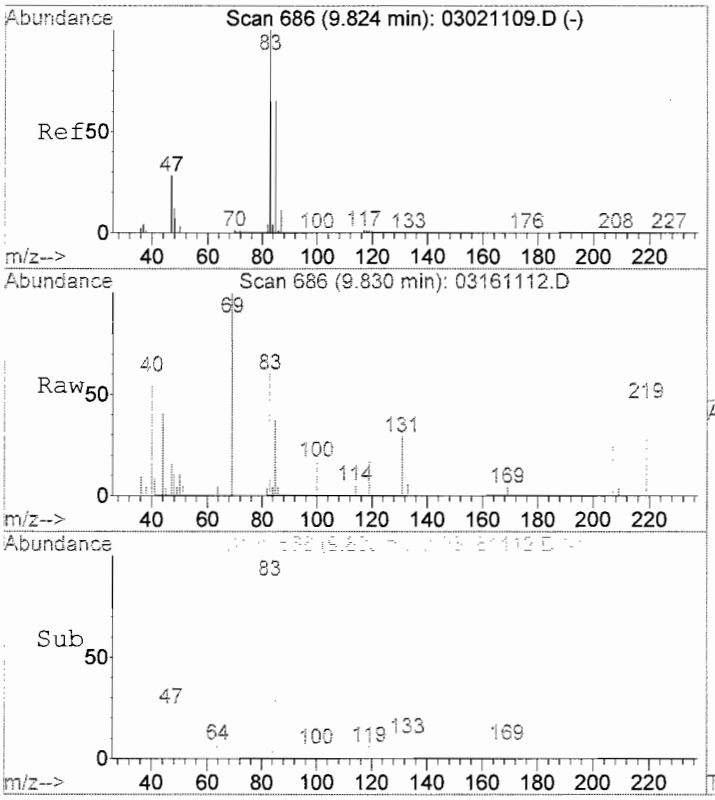


#16
Carbon disulfide
Concen: 0.21 ug/L
RT: 7.93 min Scan# 461
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 76 Resp: 8952

Ion	Ratio	Lower	Upper
76	100		
44	12.8	15.0	22.4#
78	6.7	7.2	10.8#

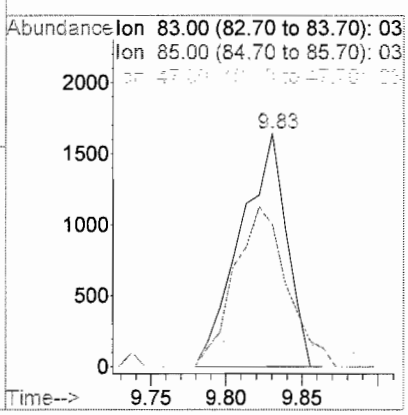


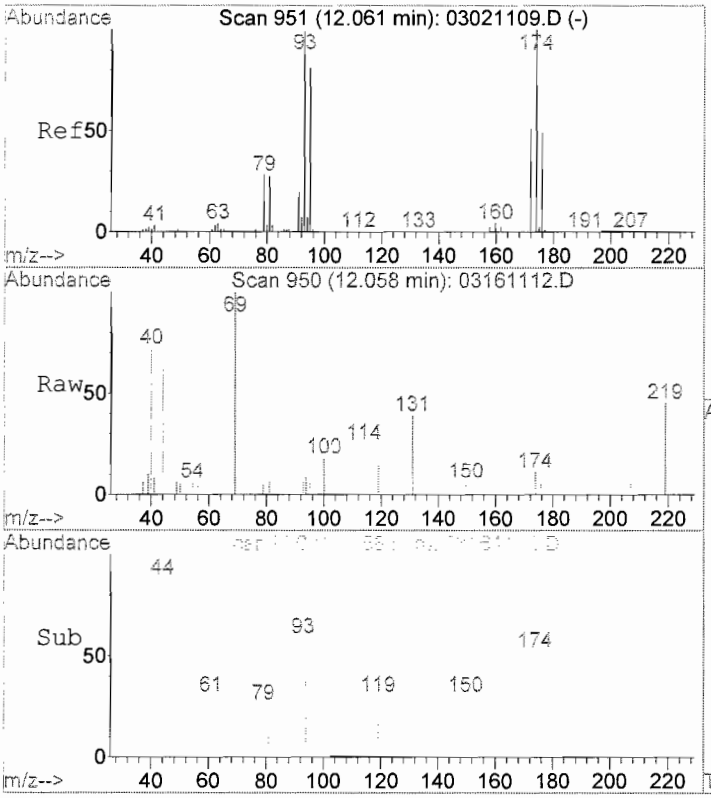


#26
Chloroform
Concen: 0.10 ug/L
RT: 9.83 min Scan# 686
Delta R.T. 0.02 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 83 Resp: 3432

Ion	Ratio	Lower	Upper
83	100		
85	78.6	52.4	78.6#
47	41.0	25.3	37.9#

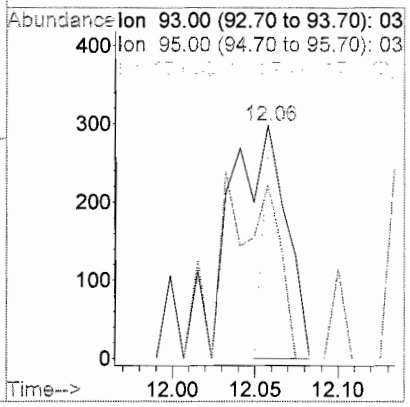


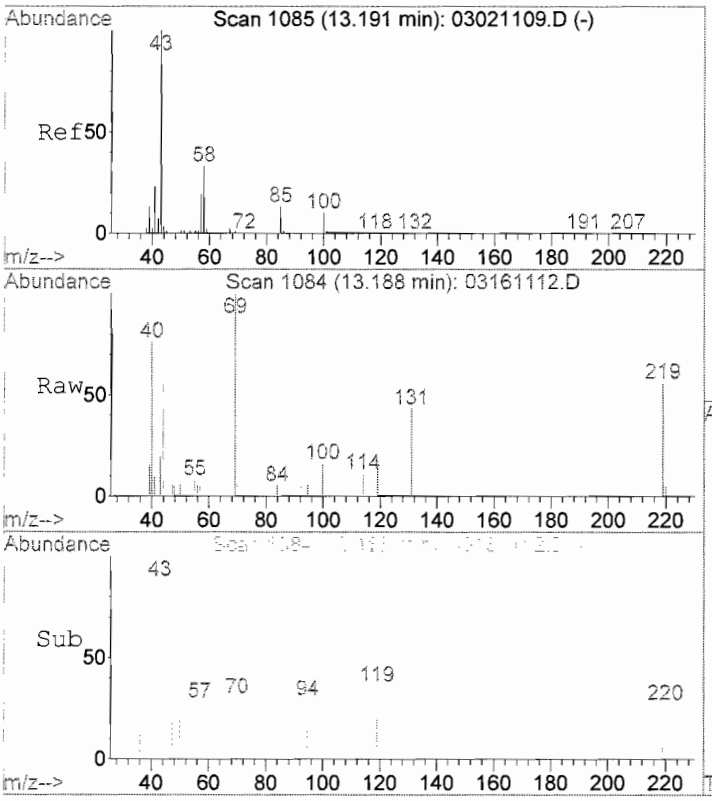


#37
Dibromomethane
Concen: 0.09 ug/L
RT: 12.06 min Scan# 950
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 93 Resp: 718

Ion	Ratio	Lower	Upper
93	100		
95	0.0	65.0	97.4#
174	53.2	89.2	133.8#

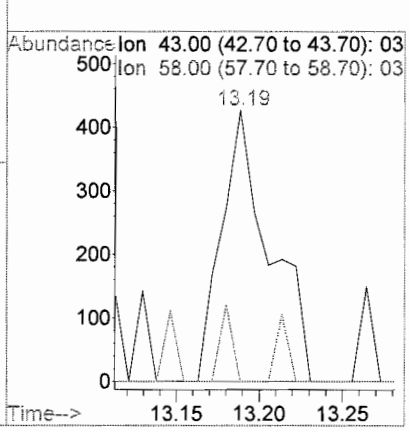


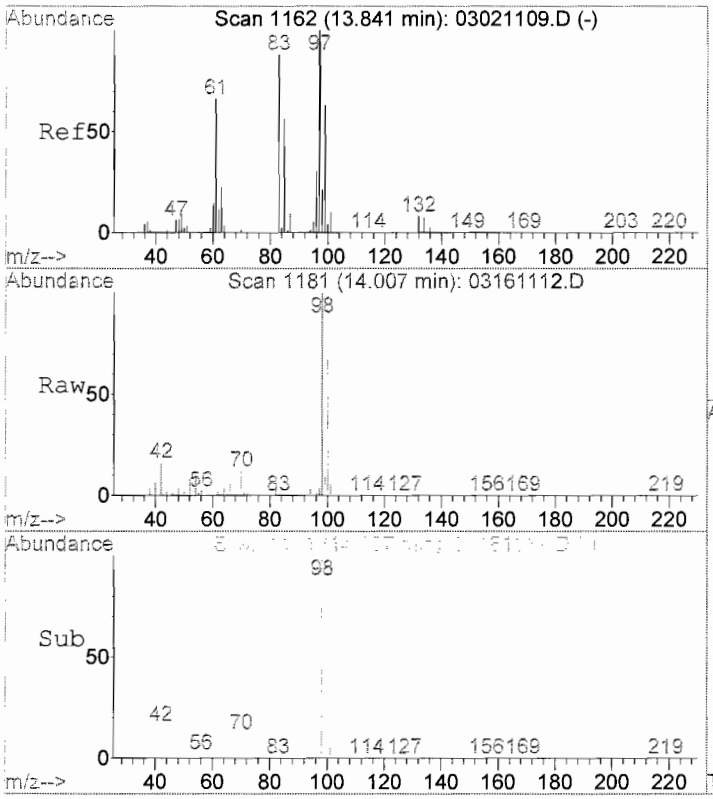


#43
4-Methyl-2-pentanone (MIBK)
Concen: 0.13 ug/L
RT: 13.19 min Scan# 1084
Delta R.T. 0.02 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 43 Resp: 857

Ion	Ratio	Lower	Upper
43	100		
58	7.1	24.9	37.3#

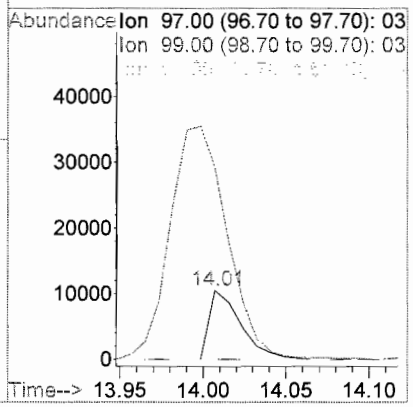




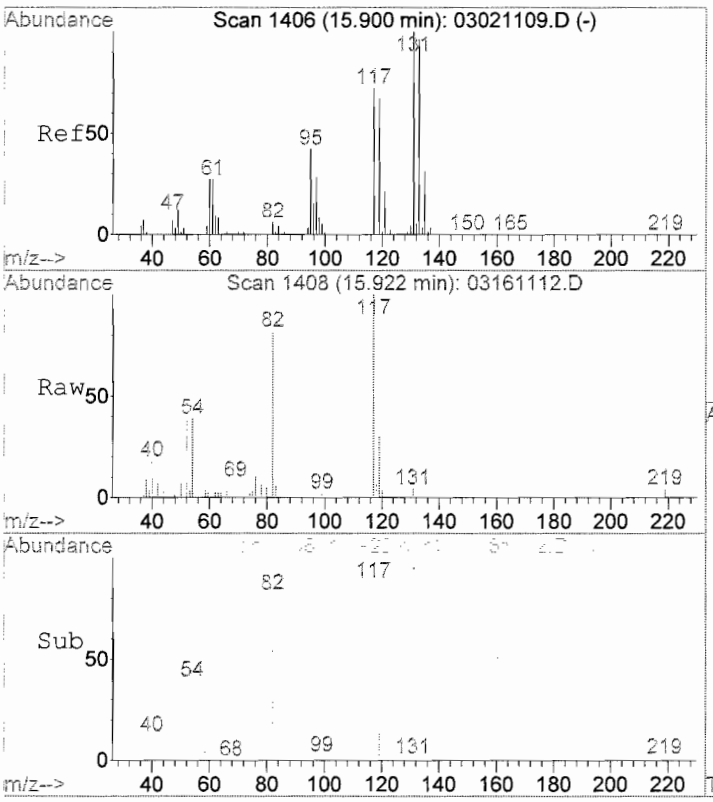
#45
1,1,2-Trichloroethane
Concen: 1.54 ug/L
RT: 14.01 min Scan# 1181
Delta R.T. 0.18 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 97 Resp: 13864

Ion	Ratio	Lower	Upper
97	100		
99	613.0	50.6	76.0#
61	0.5	60.0	90.0#



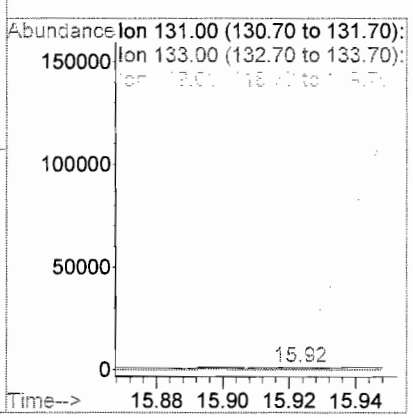
WRT



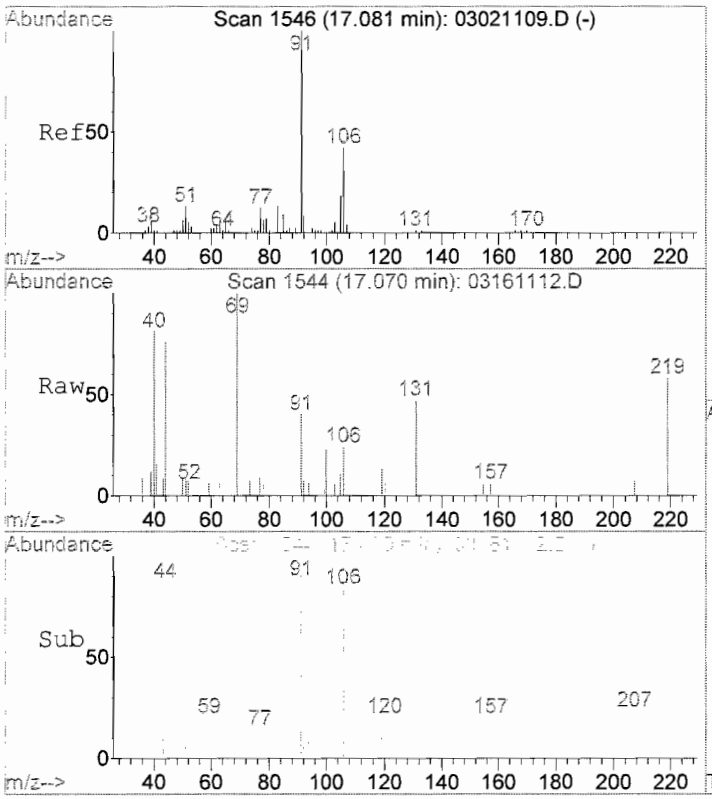
#54
1,1,1,2-Tetrachloroethane
Concen: 0.09 ug/L
RT: 15.92 min Scan# 1408
Delta R.T. 0.04 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:131 Resp: 1330

Ion	Ratio	Lower	Upper
131	100		
133	5.9	77.7	116.5#
119	0.0	53.0	79.4#



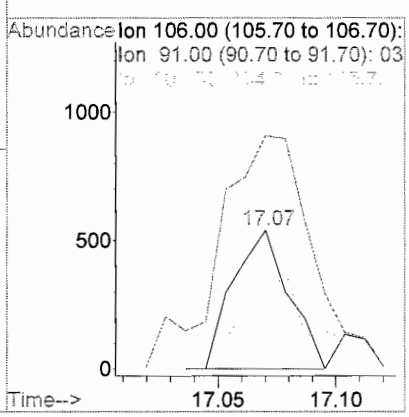
NL

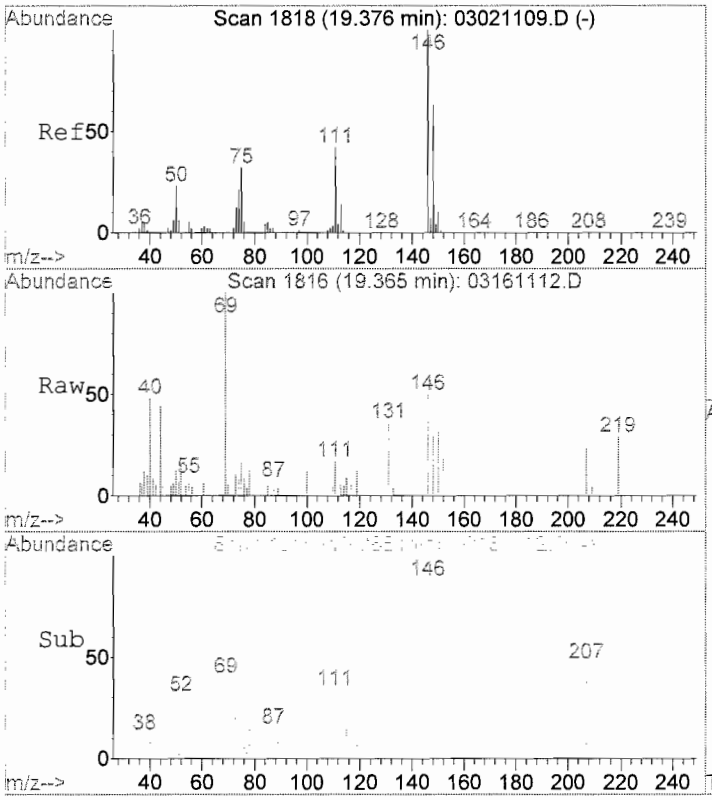


#59
o-Xylene
Concen: Below Cal
RT: 17.07 min Scan# 1544
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:106 Resp: 889

Ion	Ratio	Lower	Upper
106	100		
91	285.8	222.7	262.7#
105	84.8	22.9	62.9#

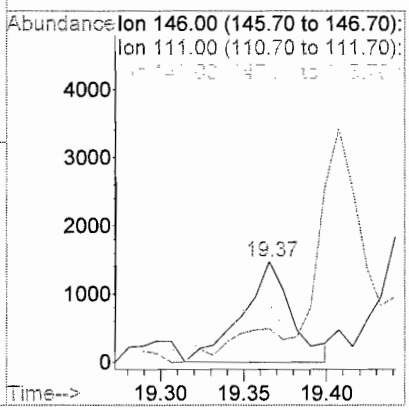


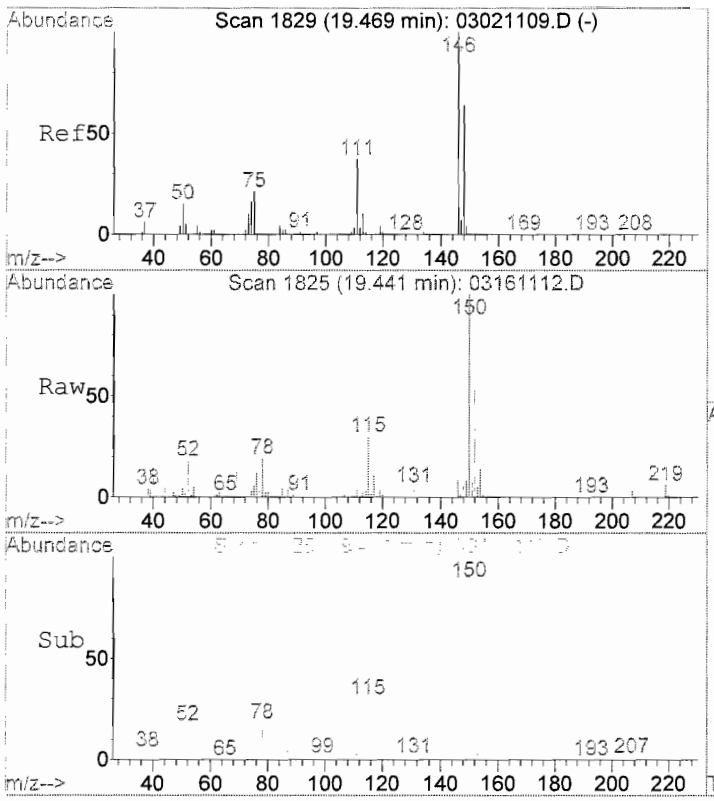


#74
1,3-Dichlorobenzene
Concen: 0.10 ug/L
RT: 19.37 min Scan# 1816
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:146 Resp: 3079

Ion	Ratio	Lower	Upper
146	100		
111	38.3	34.3	51.5
148	75.0	52.1	78.1

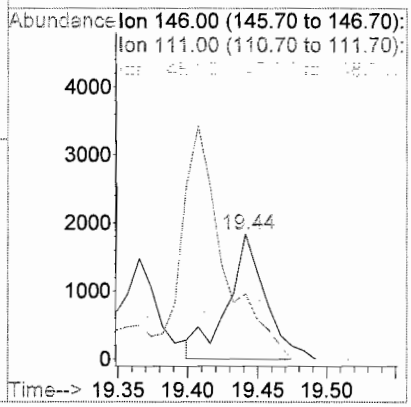


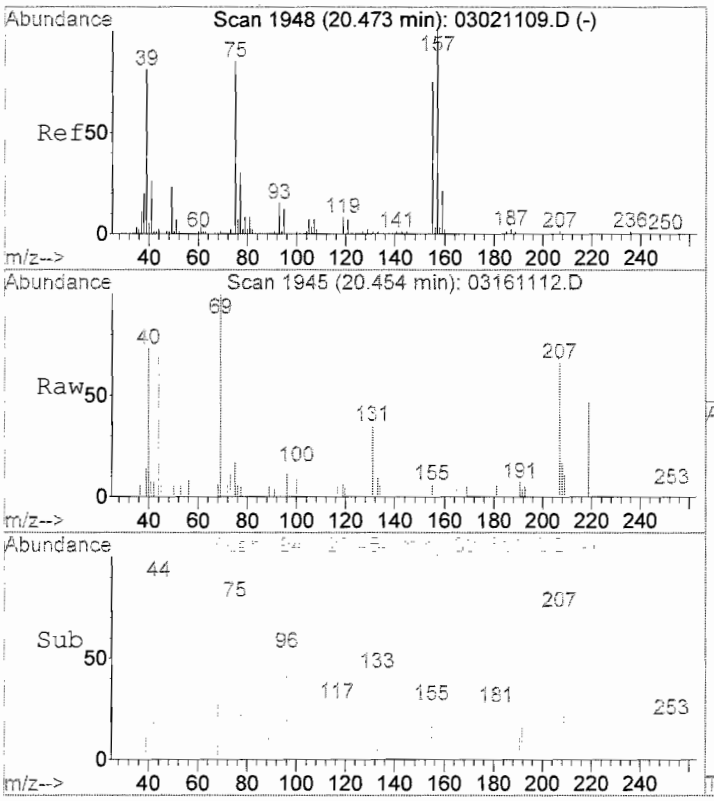


#75
1,4-Dichlorobenzene
Concen: 0.12 ug/L
RT: 19.44 min Scan# 1825
Delta R.T. -0.00 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:146 Resp: 3457

Ion	Ratio	Lower	Upper
146	100		
111	0.0	33.9	50.9#
148	94.3	52.2	78.4#

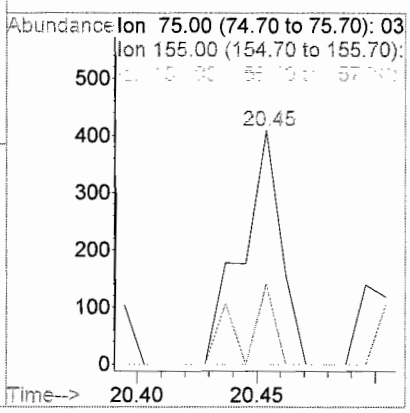


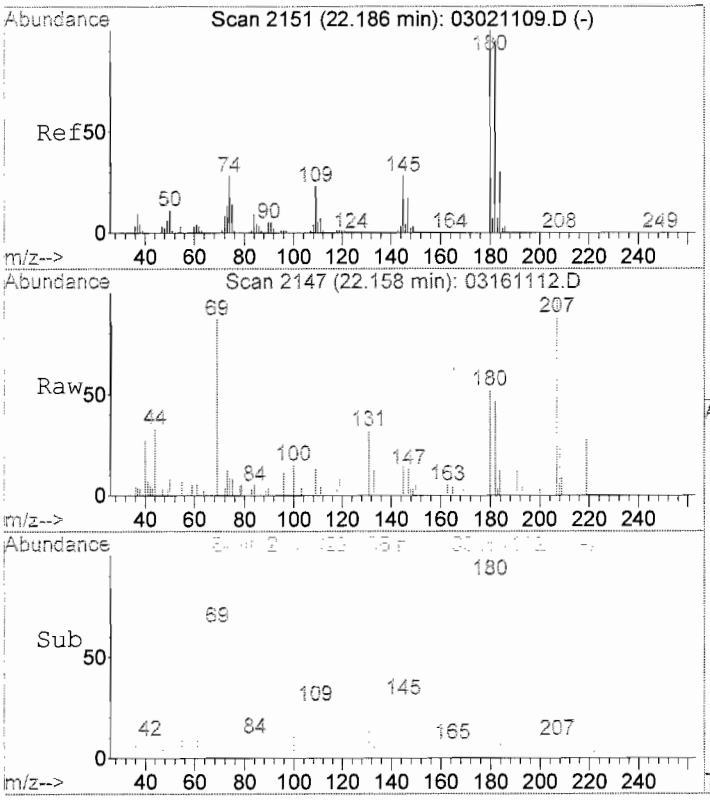


#79
1,2-Dibromo-3-chloropropane
Concen: 0.28 ug/L
RT: 20.45 min Scan# 1945
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion: 75 Resp: 464

Ion	Ratio	Lower	Upper
75	100		
155	15.3	67.3	100.9#
157	0.0	89.6	134.4#

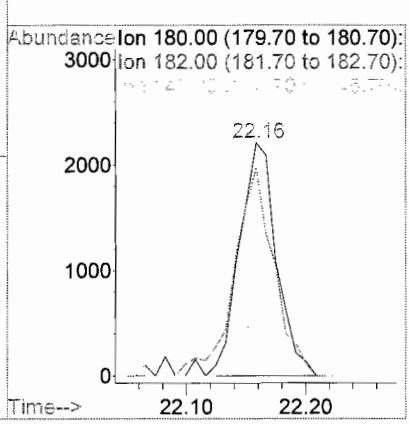


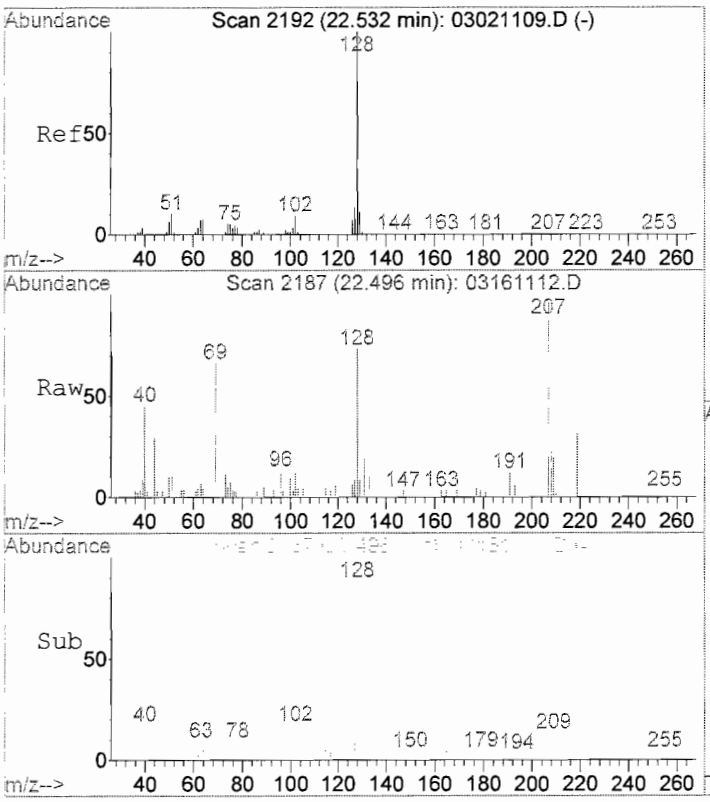


#80
1,2,4-Trichlorobenzene
Concen: 0.23 ug/L
RT: 22.16 min Scan# 2147
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:180 Resp: 4882

Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.7	115.1
145	27.3	20.7	31.1

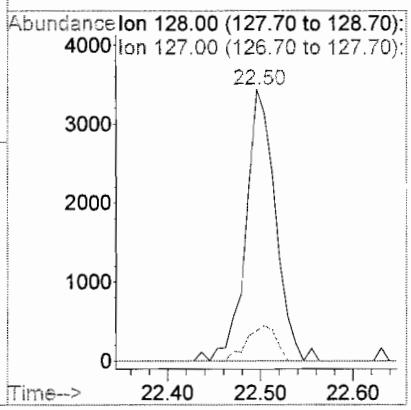


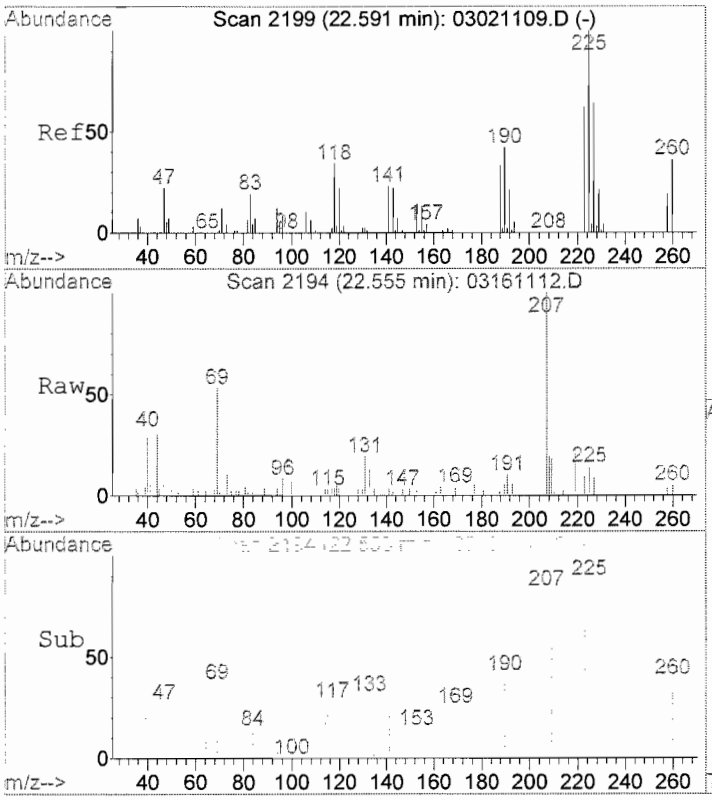


#81
Naphthalene
Concen: 0.31 ug/L
RT: 22.50 min Scan# 2187
Delta R.T. -0.00 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:128 Resp: 7680

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4

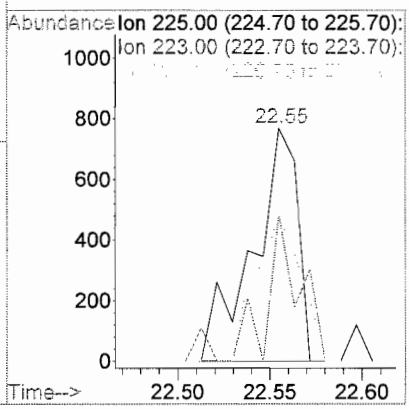


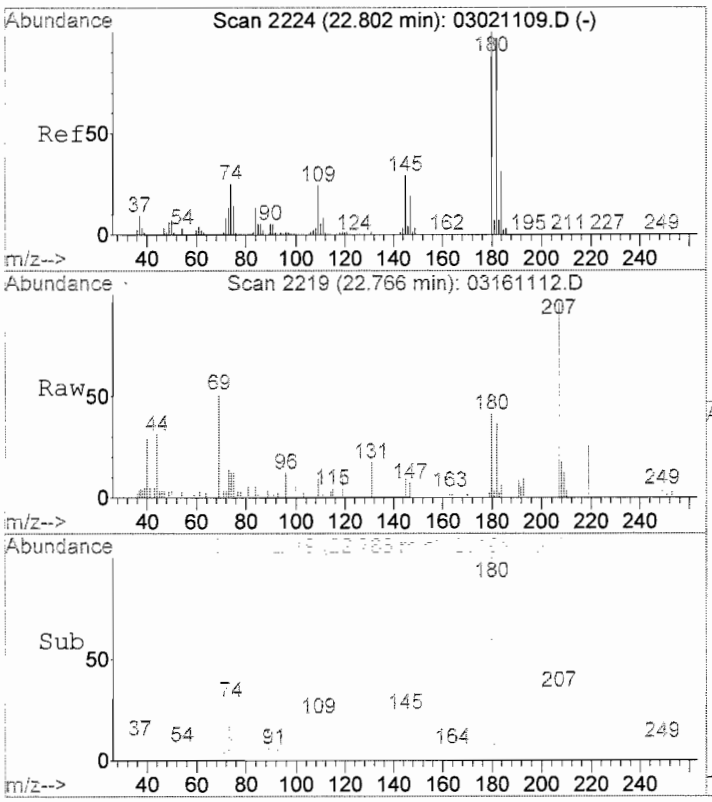


#82
Hexachlorobutadiene
Concen: 0.11 ug/L
RT: 22.55 min Scan# 2194
Delta R.T. 0.01 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:225 Resp: 1280

Ion	Ratio	Lower	Upper
225	100		
223	46.4	49.8	74.8#
227	68.4	52.0	78.0

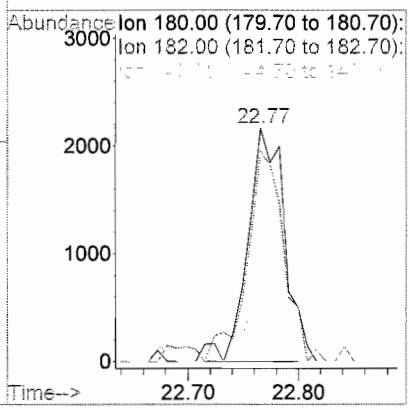




#83
1,2,3-Trichlorobenzene
Concen: 0.29 ug/L
RT: 22.77 min Scan# 2219
Delta R.T. -0.00 min
Lab File: 03161112.D
Acq: 16 Mar 2011 2:27 pm

Tgt Ion:180 Resp: 5027

Ion	Ratio	Lower	Upper
180	100		
182	90.0	78.2	117.2
145	25.6	22.6	34.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161121.D Vial: 15
Acq On : 16 Mar 2011 7:16 pm Operator: NL
Sample : PUC0730-01 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 8:12 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

RL for T, X (carryover)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) TBA-d9	7.31	65	108794	200.00 ug/L	0.00
4) Pentafluorobenzene	10.48	168	689598	25.00 ug/L	0.00
33) 1,4-Difluorobenzene	11.61	114	902956	25.00 ug/L	0.00
48) Chlorobenzene-d5	15.95	117	817006	25.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	19.41	152	489146	25.00 ug/L	0.00
System Monitoring Compounds					
29) Dibromofluoromethane	9.98	113	330795	20.92 ug/L	0.01
Spiked Amount 25.000			Recovery =	83.68%	
46) Toluene-d8	13.99	98	974215	24.46 ug/L	0.00
Spiked Amount 25.000			Recovery =	97.84%	
60) 4-Bromofluorobenzene	17.62	95	494209	27.42 ug/L	0.00
Spiked Amount 25.000			Recovery =	109.68%	

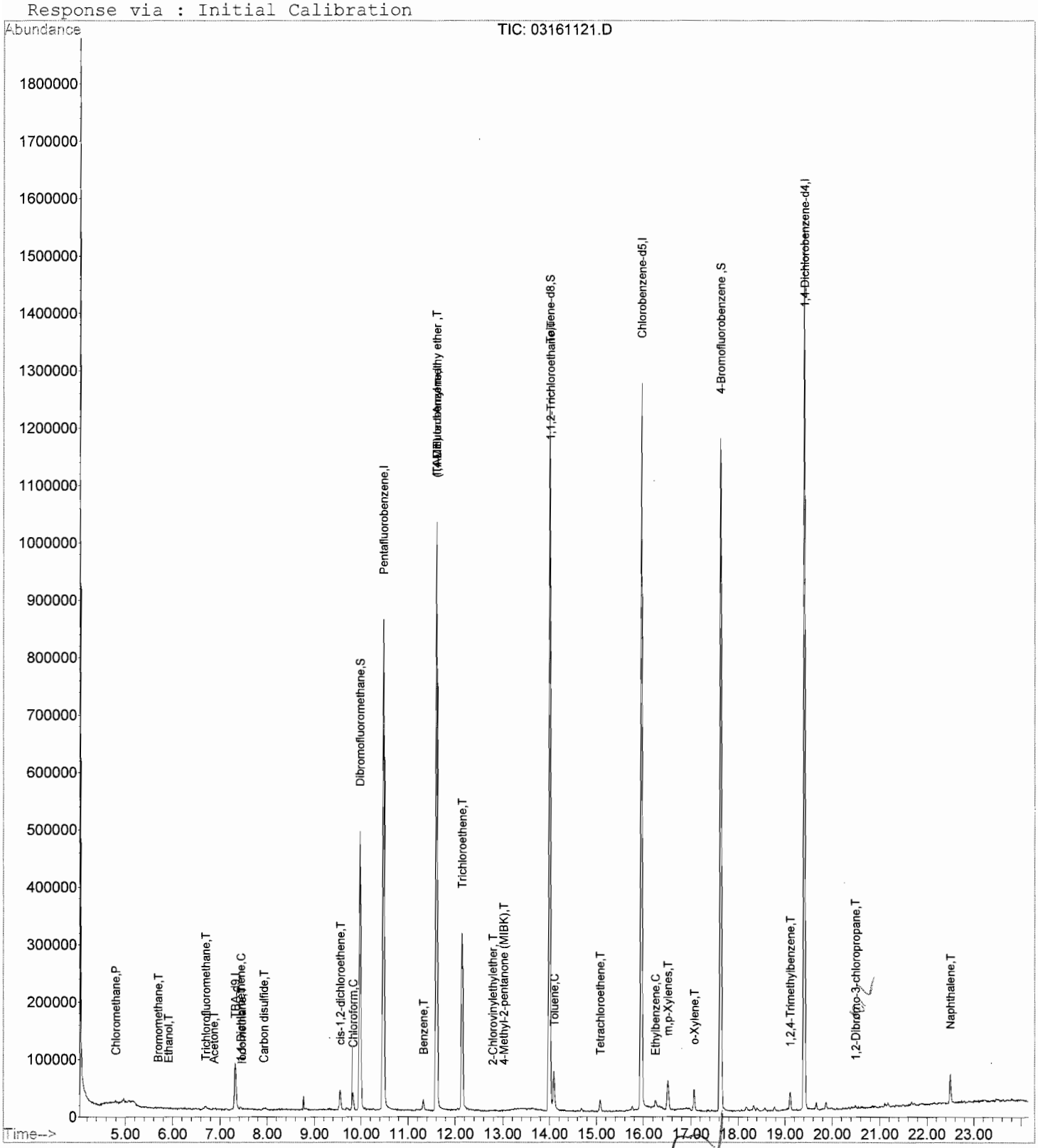
Target Compounds					Qvalue	
2) Ethanol	5.92	45	410	9.45 ug/L	75	NT
3) tert-Butanol (TBA)	7.44	59	579	Below Cal #	81	L
6) Chloromethane	4.81	50	1416	0.10 ug/L #	15	LRL
8) Bromomethane	5.68	94	528	0.87 ug/L #	1	NSM
10) Trichlorofluoromethane	6.70	101	7951	0.25 ug/L	90	LRL
11) Acetone	6.87	43	2046	0.60 ug/L #	73	ND
12) Iodomethane	7.46	142	58	1.79 ug/L #	32	NSM
13) 1,1-Dichloroethene	7.42	96	1701	0.11 ug/L	84	LRL
16) Carbon disulfide	7.94	76	6773	0.15 ug/L #	73	
24) cis-1,2-dichloroethene	9.56	96	18591	0.95 ug/L	96	
26) Chloroform	9.82	83	26398	0.72 ug/L	99	
32) (TAME) tert-Amyl methy eth	11.61	73	12831	0.39 ug/L #	36	NT
36) Benzene	11.33	78	17234	0.30 ug/L	97	LRL
39) Trichloroethene	12.16	95	128026	7.30 ug/L	97	
41) 2-Chlorovinylethylether	12.78	63	1048	0.22 ug/L #	74	NT
43) 4-Methyl-2-pentanone (MIBK	13.02	43	638	0.09 ug/L #	44	ND
45) 1,1,2-Trichloroethane	14.01	97	11435	1.21 ug/L #	16	WRT
47) Toluene	14.10	92	34628	1.01 ug/L	97	NR
53) Tetrachloroethene	15.08	164	5735	0.40 ug/L	99	LRL
56) Ethylbenzene	16.25	91	18584	0.28 ug/L #	85	LRL
57) m,p-Xylenes	16.51	106	20285	0.86 ug/L	96	NR
59) o-Xylene	17.07	106	11903	0.33 ug/L	98	L
72) 1,2,4-Trimethylbenzene	19.11	105	19272	0.34 ug/L	97	LRL
79) 1,2-Dibromo-3-chloropropan	20.49	75	378	0.22 ug/L #	8	
81) Naphthalene	22.50	128	49879	1.94 ug/L	98	L

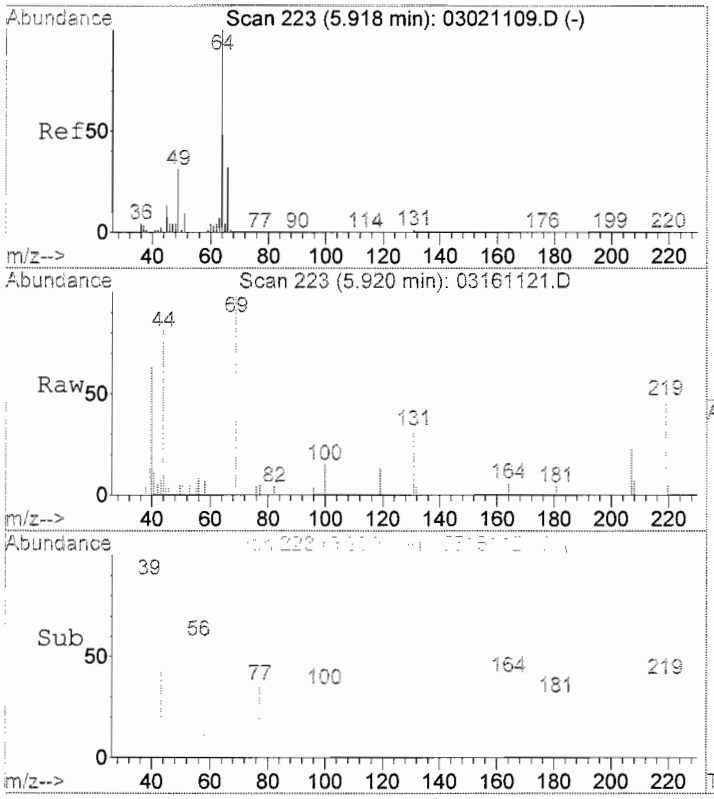
(#) = qualifier out of range (m) = manual integration
03161121.D 031411.M Thu Mar 17 11:24:50 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS13\DATA\031611\03161121.D Vial: 15
Acq On : 16 Mar 2011 7:16 pm Operator: NL
Sample : PUC0730-01 Inst : GCMS13
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 17 8:12 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS13\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260
Last Update : Mon Mar 14 16:22:34 2011
Response via : Initial Calibration

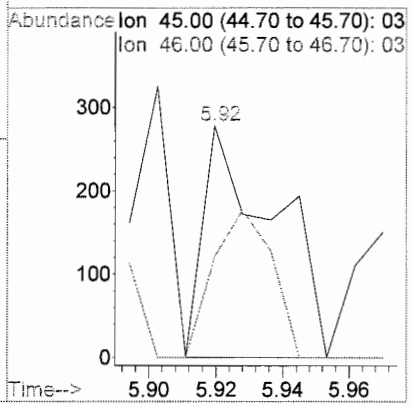


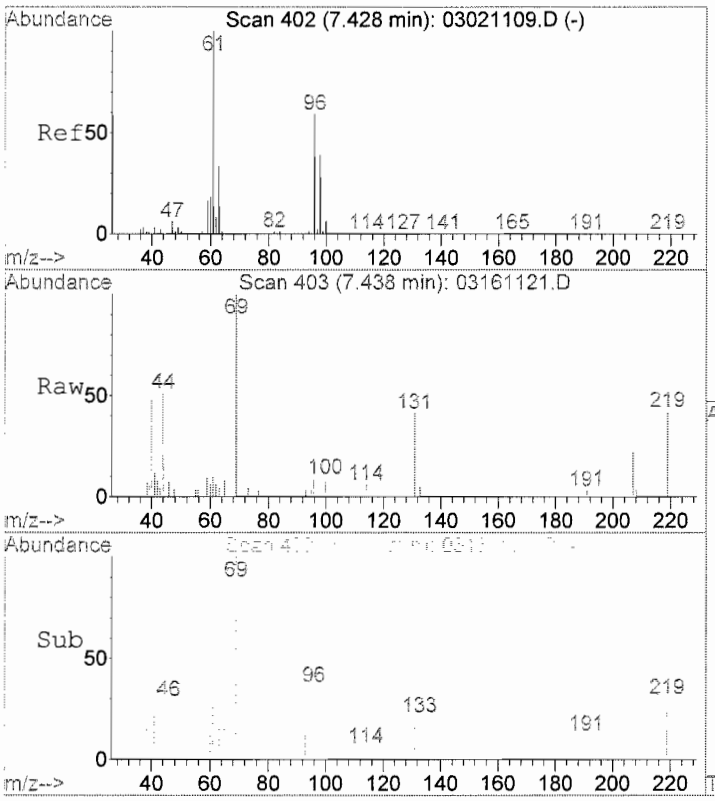


#2
Ethanol
Concen: 9.45 ug/L
RT: 5.92 min Scan# 223
Delta R.T. 0.02 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 45 Resp: 410

Ion	Ratio	Lower	Upper
45	100		
46	52.7	17.5	57.5

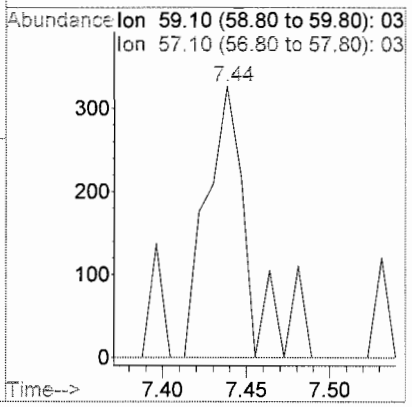


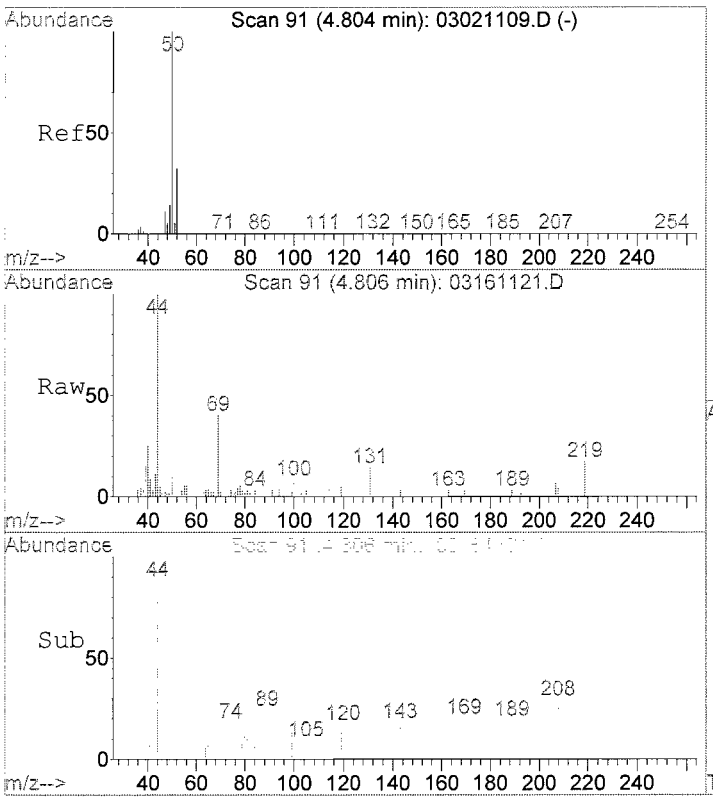


#3
tert-Butanol (TBA)
Concen: Below Cal
RT: 7.44 min Scan# 403
Delta R.T. 0.02 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 59 Resp: 579

Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.0	7.6#

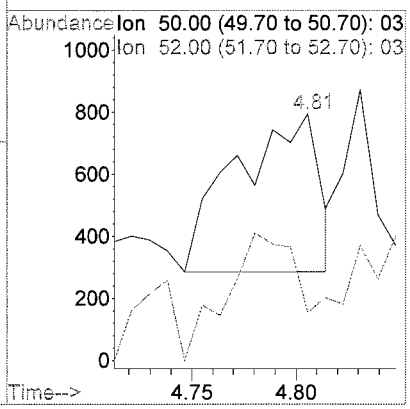


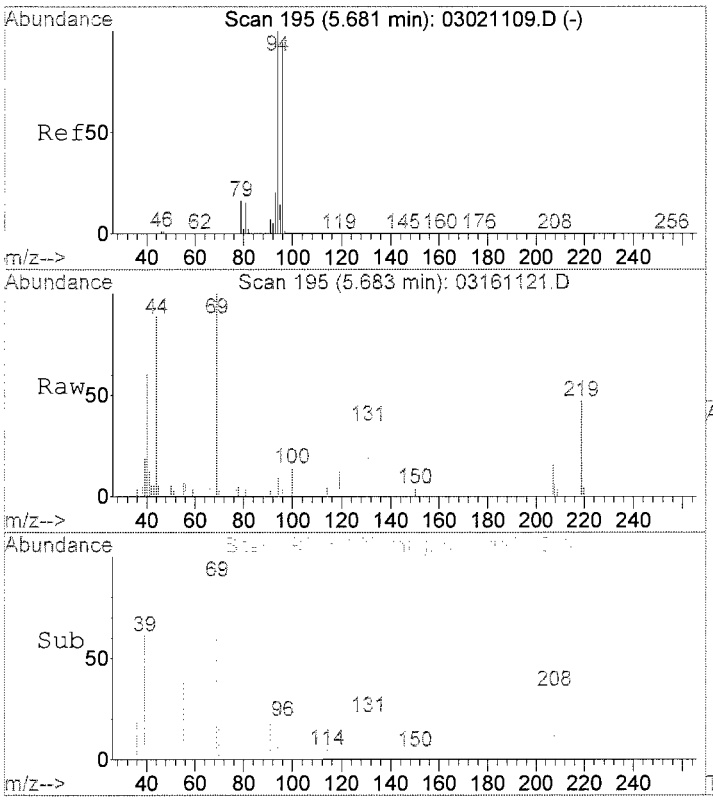


#6
Chloromethane
Concen: 0.10 ug/L
RT: 4.81 min Scan# 91
Delta R.T. 0.03 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 50 Resp: 1416

Ion	Ratio	Lower	Upper
50	100		
52	81.2	13.2	53.2#

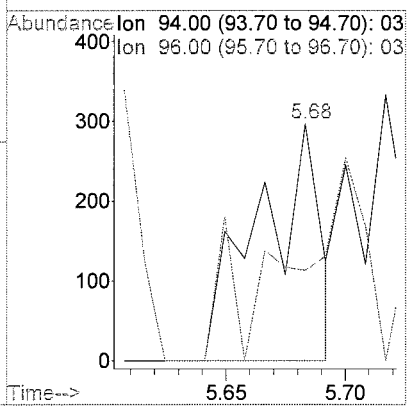


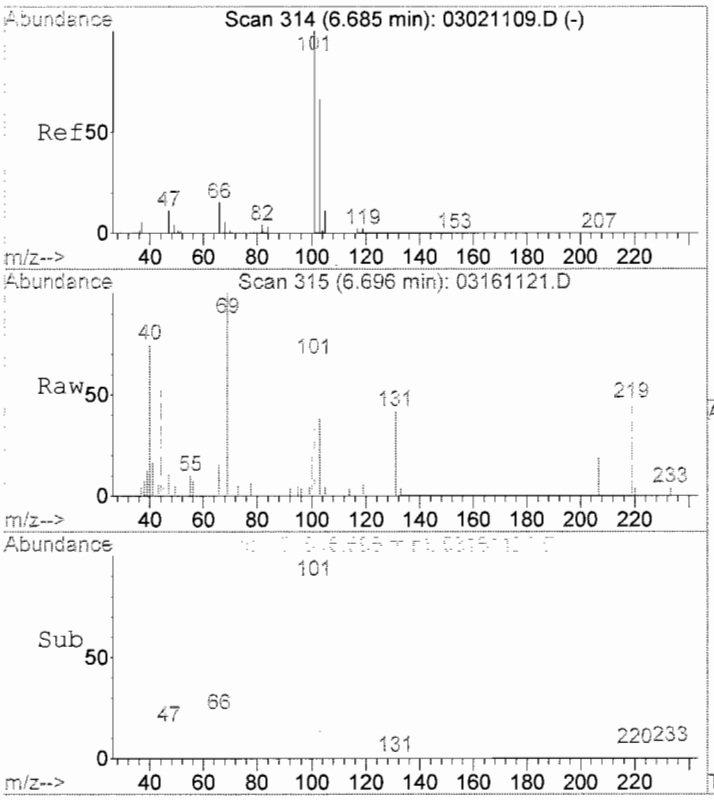


#8
Bromomethane
Concen: 0.87 ug/L
RT: 5.68 min Scan# 195
Delta R.T. 0.02 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 94 Resp: 528

Ion	Ratio	Lower	Upper
94	100		
96	0.0	79.5	119.3#

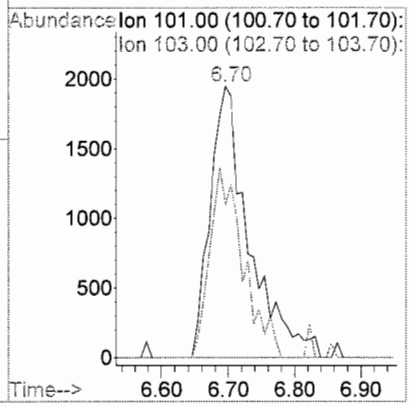


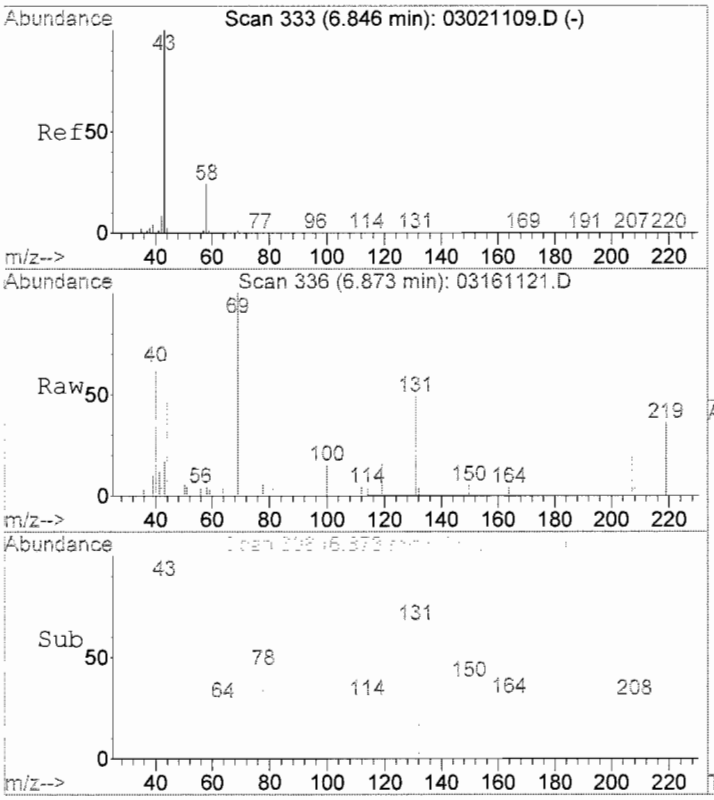


#10
Trichlorofluoromethane
Concen: 0.25 ug/L
RT: 6.70 min Scan# 315
Delta R.T. 0.02 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion:101 Resp: 7951

Ion	Ratio	Lower	Upper
101	100		
103	56.4	51.5	77.3

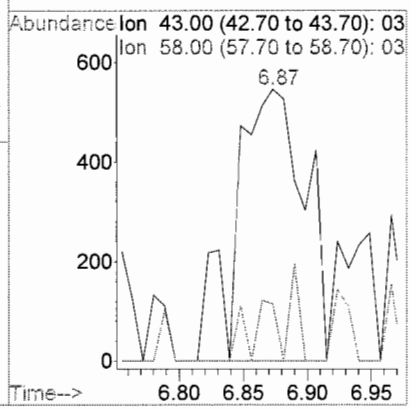


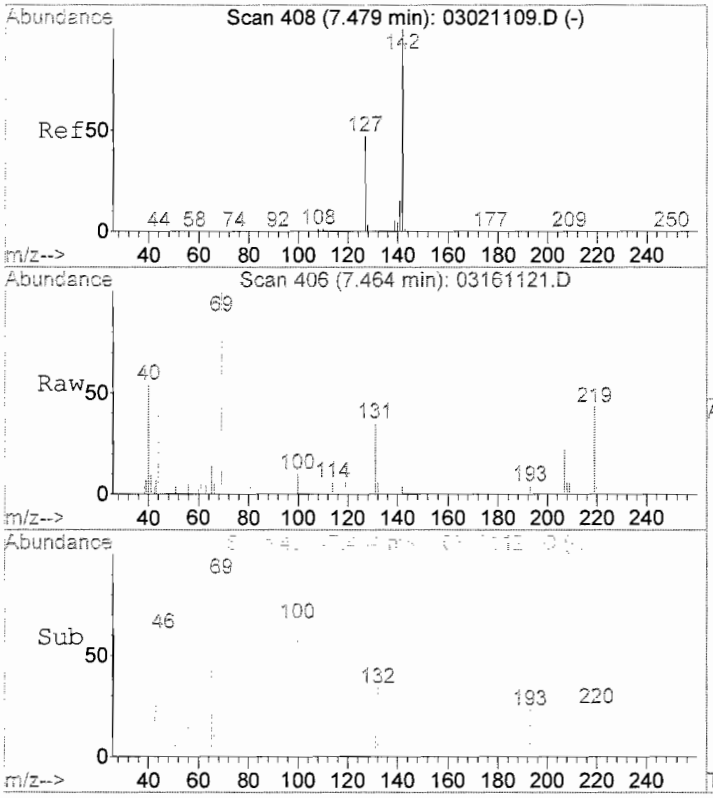


#11
Acetone
Concen: 0.60 ug/L
RT: 6.87 min Scan# 336
Delta R.T. 0.05 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 43 Resp: 2046

Ion	Ratio	Lower	Upper
43	100		
58	8.6	17.0	25.6#

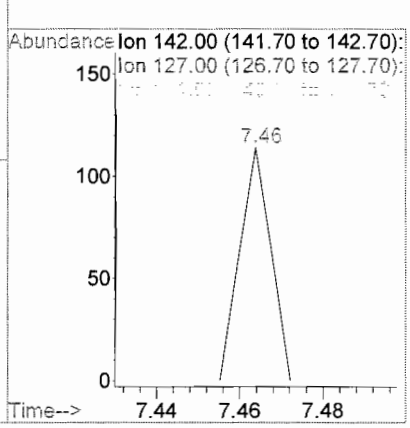


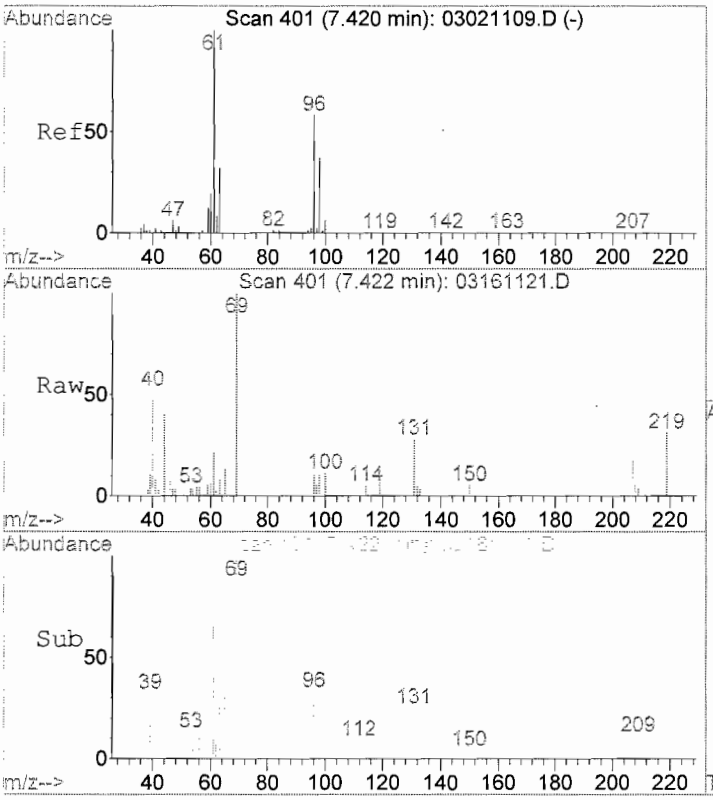


#12
Iodomethane
Concen: 1.79 ug/L
RT: 7.46 min Scan# 406
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion:142 Resp: 58

Ion	Ratio	Lower	Upper
142	100		
127	0.0	44.9	67.3#
141	0.0	13.1	19.7#

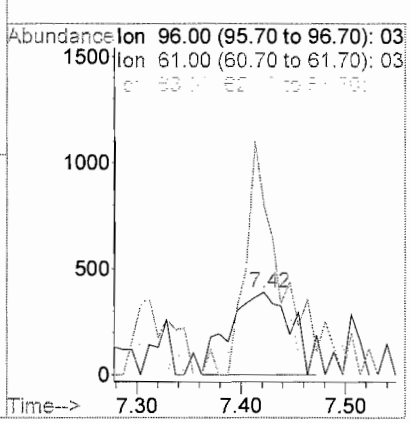


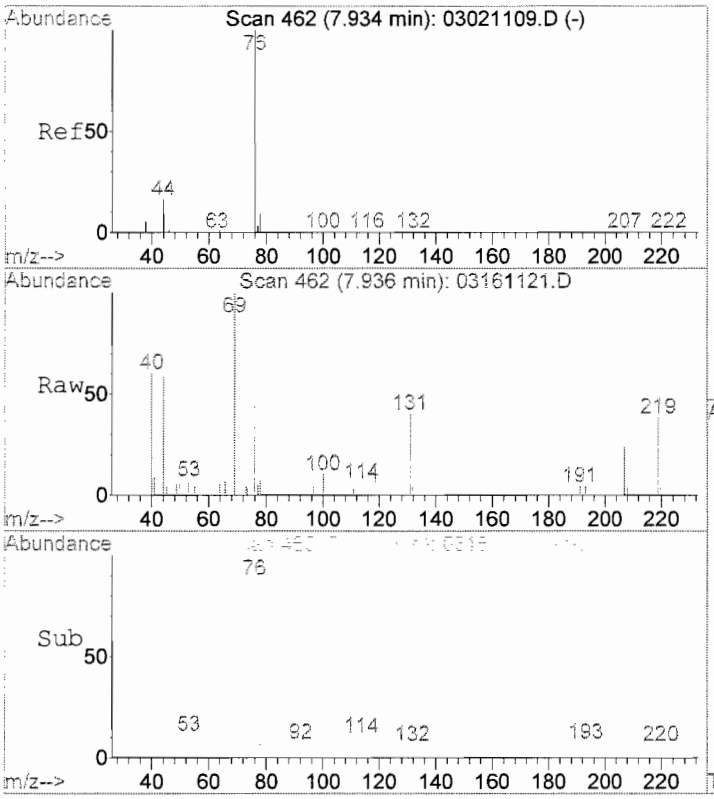


#13
1,1-Dichloroethene
Concen: 0.11 ug/L
RT: 7.42 min Scan# 401
Delta R.T. 0.01 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 96 Resp: 1701

Ion	Ratio	Lower	Upper
96	100		
61	158.6	147.6	221.4
63	51.4	47.0	70.4

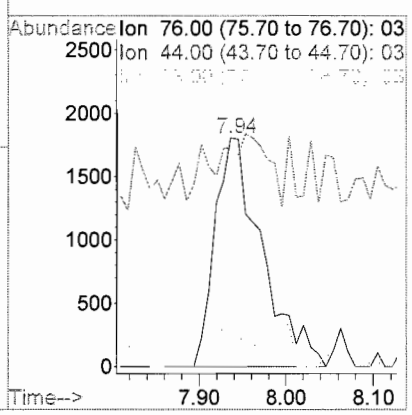


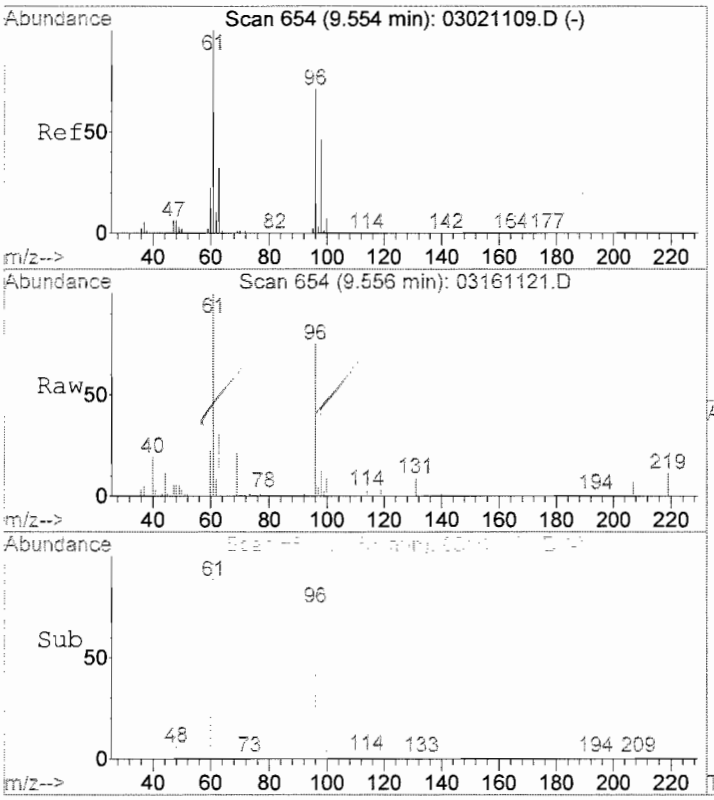


#16
Carbon disulfide
Concen: 0.15 ug/L
RT: 7.94 min Scan# 462
Delta R.T. 0.01 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 76 Resp: 6773

Ion	Ratio	Lower	Upper
76	100		
44	34.3	15.0	22.4#
78	12.5	7.2	10.8#

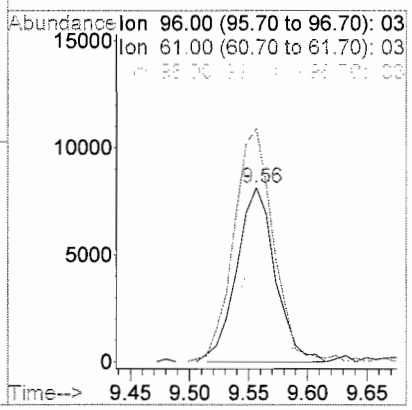


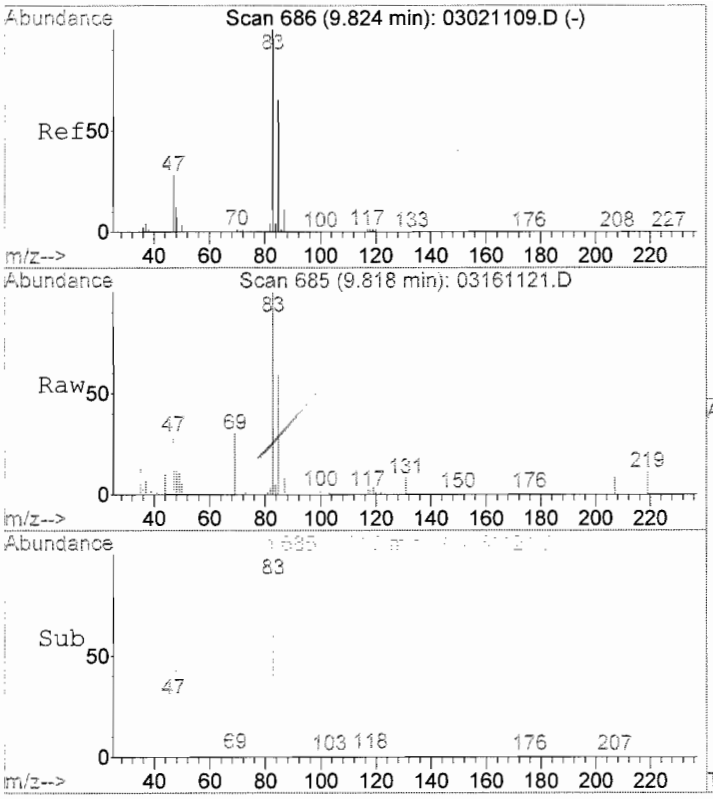


#24
cis-1,2-dichloroethene
Concen: 0.95 ug/L
RT: 9.56 min Scan# 654
Delta R.T. 0.01 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 96 Resp: 18591

Ion	Ratio	Lower	Upper
96	100		
61	138.5	114.5	171.7
98	60.2	50.8	76.2

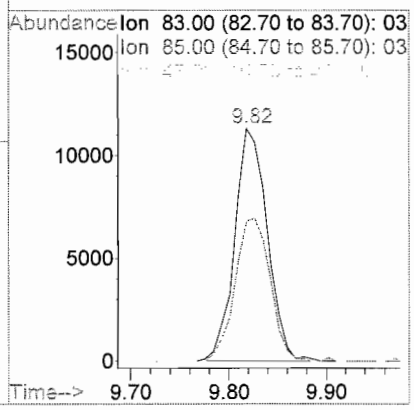


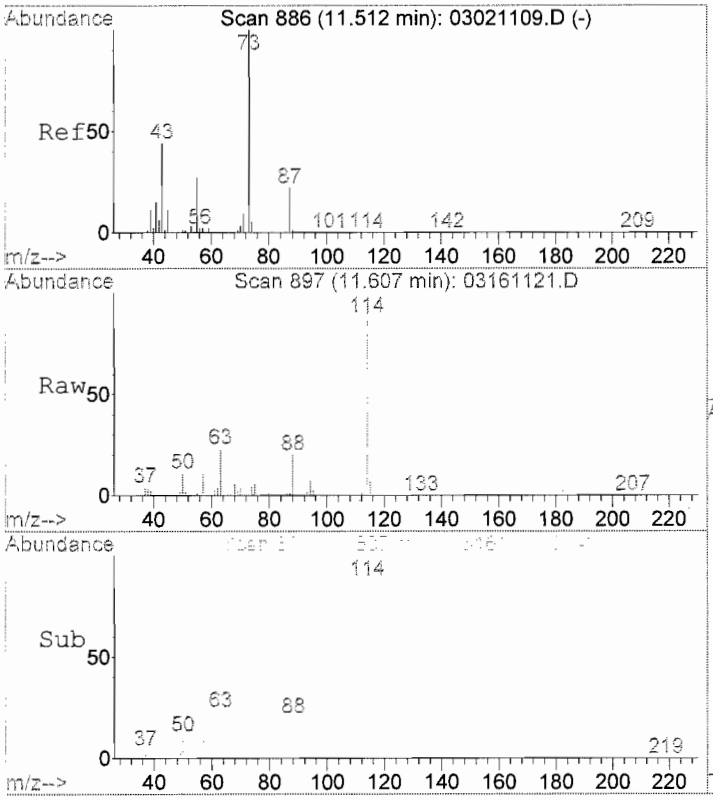


#26
Chloroform
Concen: 0.72 ug/L
RT: 9.82 min Scan# 685
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 83 Resp: 26398

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.4	78.6
47	30.7	25.3	37.9

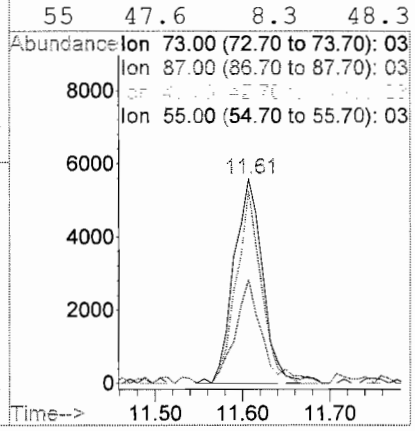


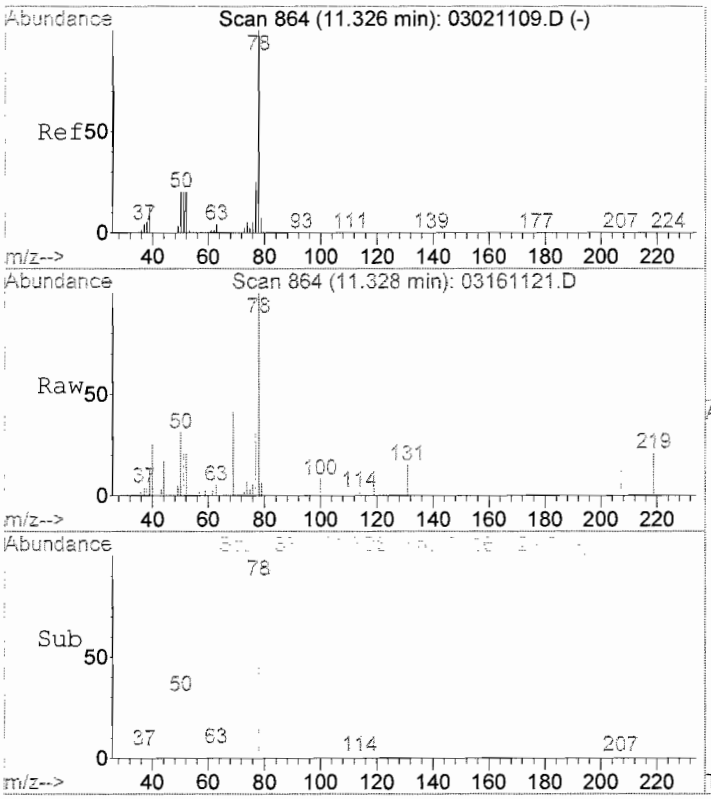


#32
(TAME) tert-Amyl methy ether
Concen: 0.39 ug/L
RT: 11.61 min Scan# 897
Delta R.T. 0.10 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 73 Resp: 12831

Ion	Ratio	Lower	Upper
73	100		
87	80.8	4.2	44.2#
43	9.9	26.6	66.6#
55	47.6	8.3	48.3

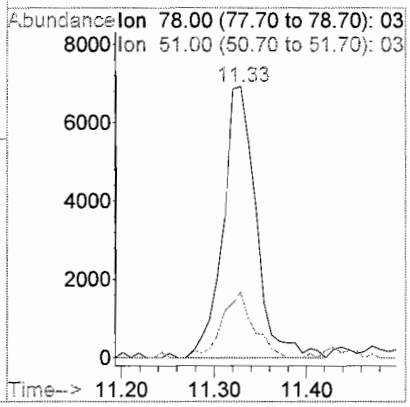


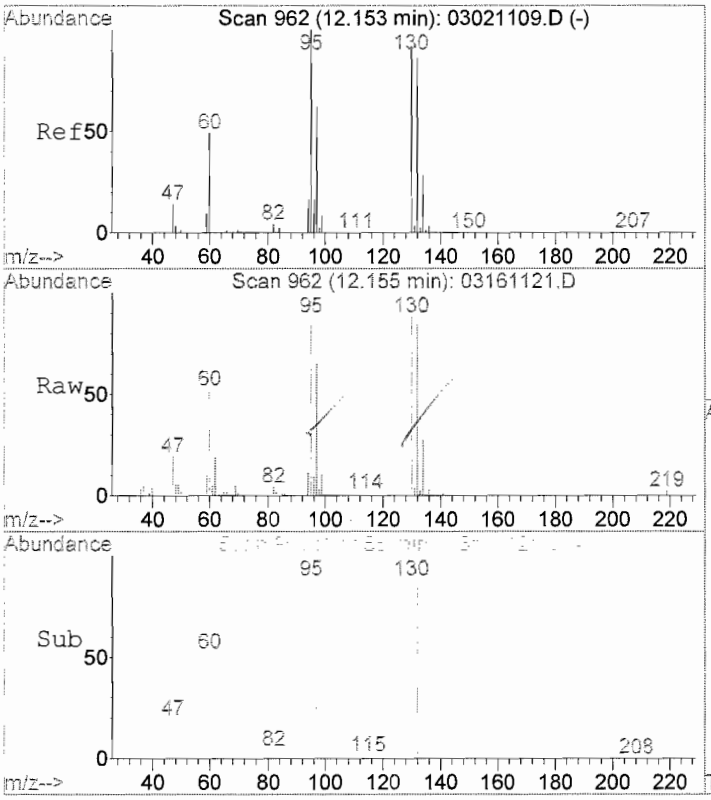


#36
Benzene
Concen: 0.30 ug/L
RT: 11.33 min Scan# 864
Delta R.T. 0.01 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 78 Resp: 17234

Ion	Ratio	Lower	Upper
78	100		
51	23.3	17.5	26.3

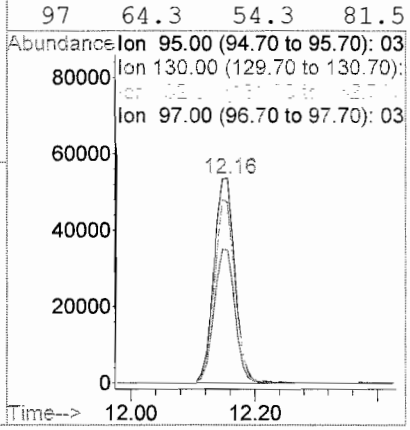


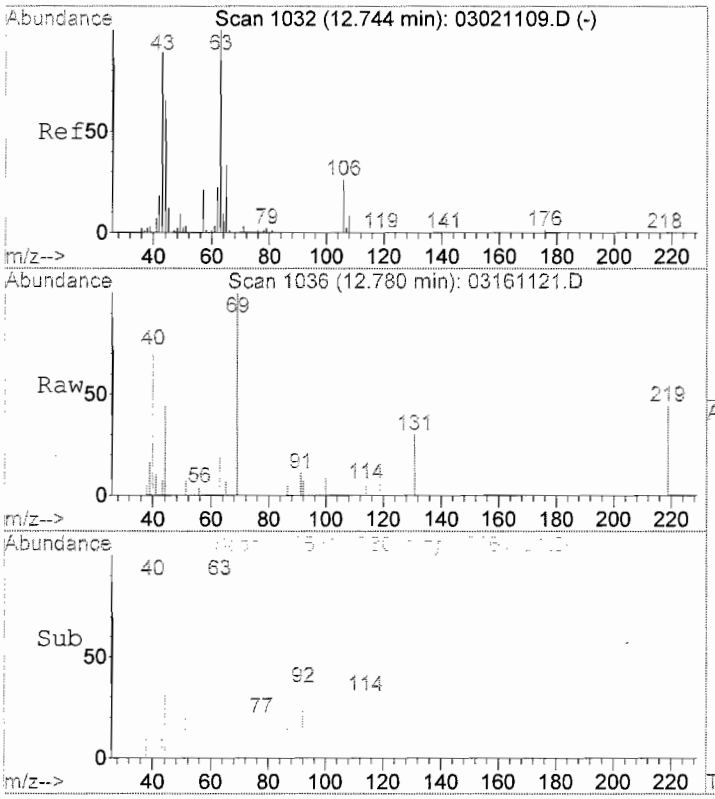


#39
Trichloroethene
Concen: 7.30 ug/L
RT: 12.16 min Scan# 962
Delta R.T. 0.01 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 95 Resp: 128026

Ion	Ratio	Lower	Upper
95	100		
130	85.7	70.3	105.5
132	82.2	68.5	102.7
97	64.3	54.3	81.5

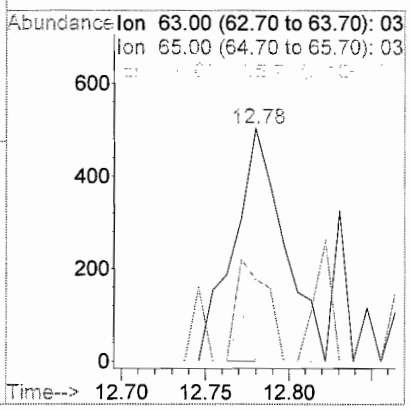


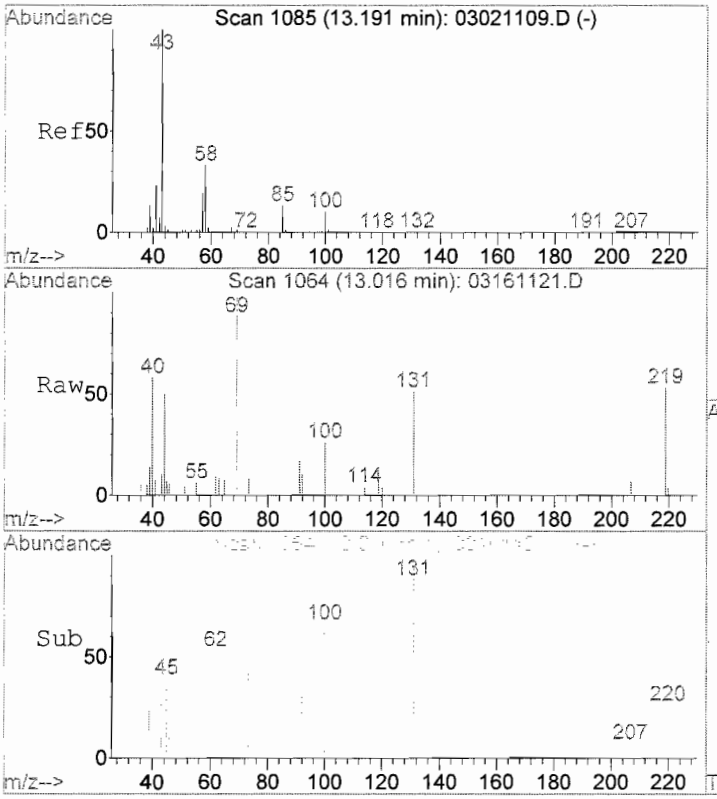


#41
2-Chlorovinylethylether
Concen: 0.22 ug/L
RT: 12.78 min Scan# 1036
Delta R.T. 0.05 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 63 Resp: 1048

Ion	Ratio	Lower	Upper
63	100		
65	26.8	25.5	38.3
106	5.3	23.0	34.6#

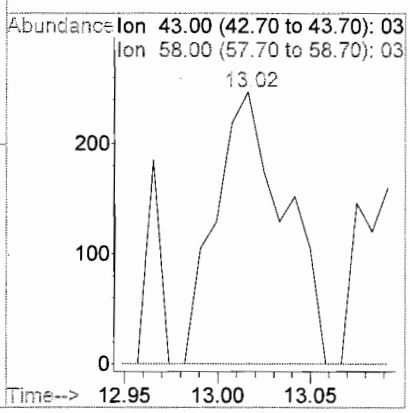


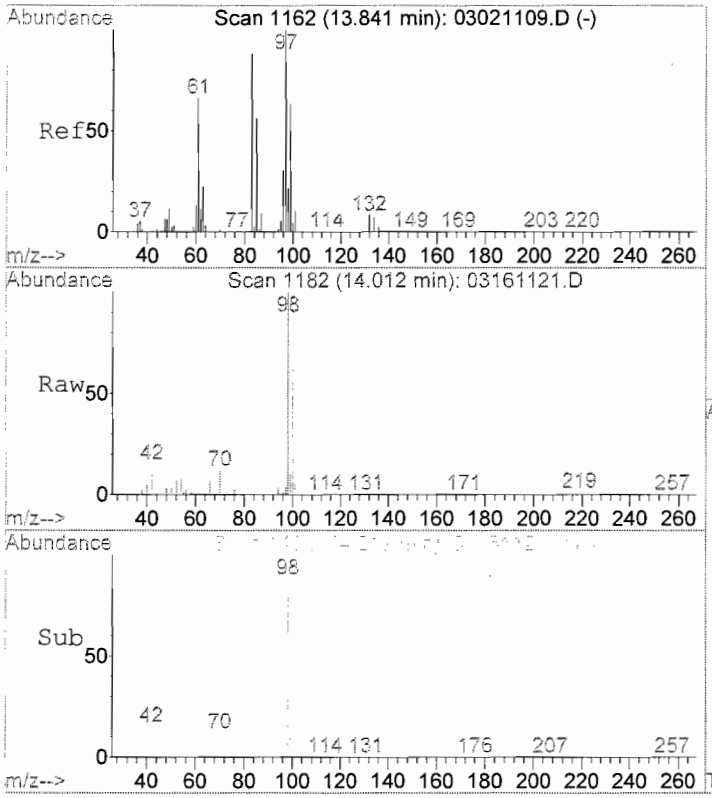


#43
4-Methyl-2-pentanone (MIBK)
Concen: 0.09 ug/L
RT: 13.02 min Scan# 1064
Delta R.T. -0.16 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 43 Resp: 638

Ion	Ratio	Lower	Upper
43	100		
58	0.0	24.9	37.3#

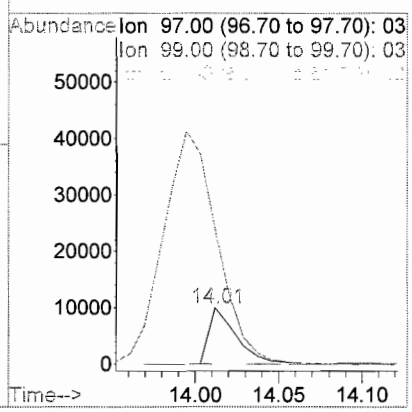




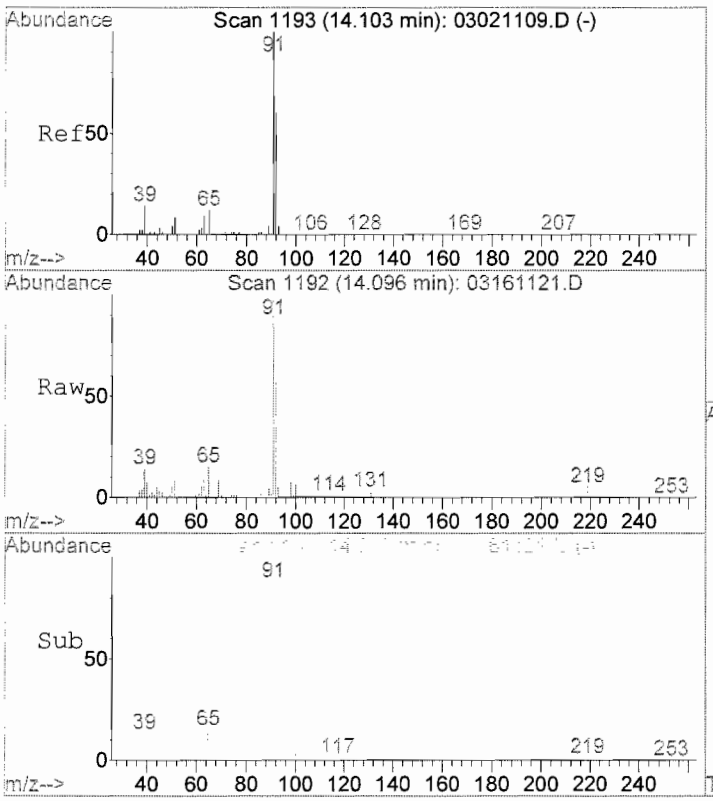
#45
1,1,2-Trichloroethane
Concen: 1.21 ug/L
RT: 14.01 min Scan# 1182
Delta R.T. 0.19 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 97 Resp: 11435

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0#
61	1.2	60.0	90.0#



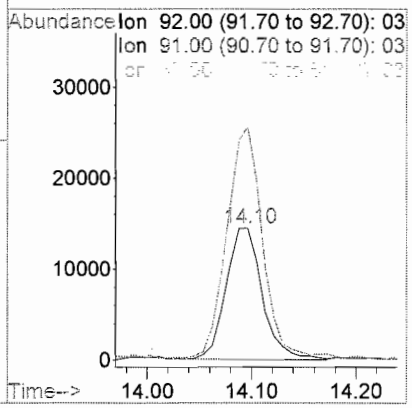
WPT



#47
Toluene
Concen: 1.01 ug/L
RT: 14.10 min Scan# 1192
Delta R.T. 0.01 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

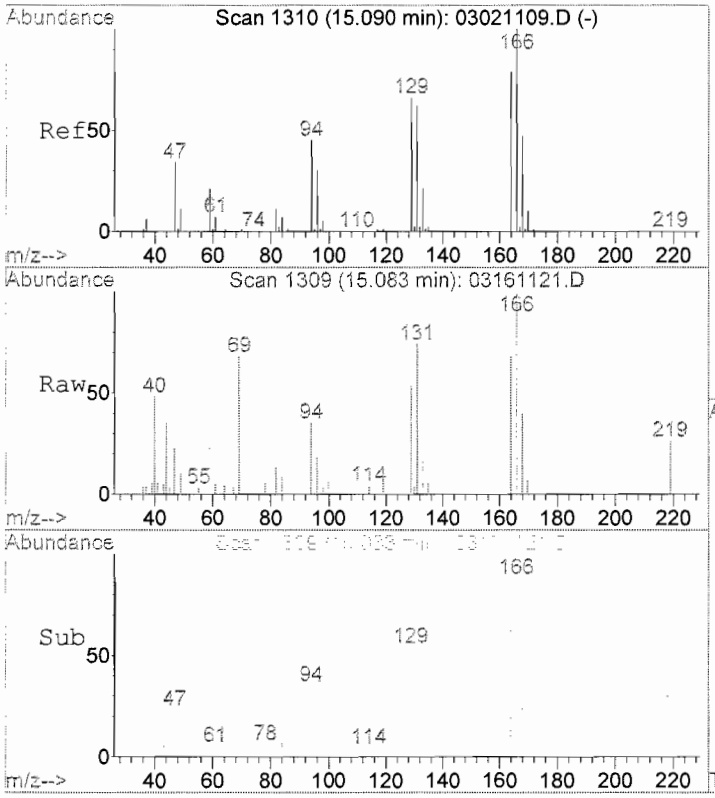
Tgt Ion: 92 Resp: 34628

Ion	Ratio	Lower	Upper
92	100		
91	172.7	134.6	201.8
65	21.7	17.4	26.0



NR (poss. carryover)

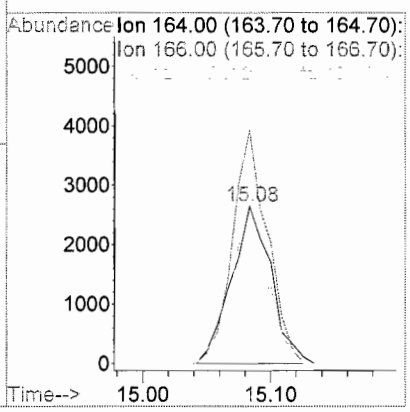
NL

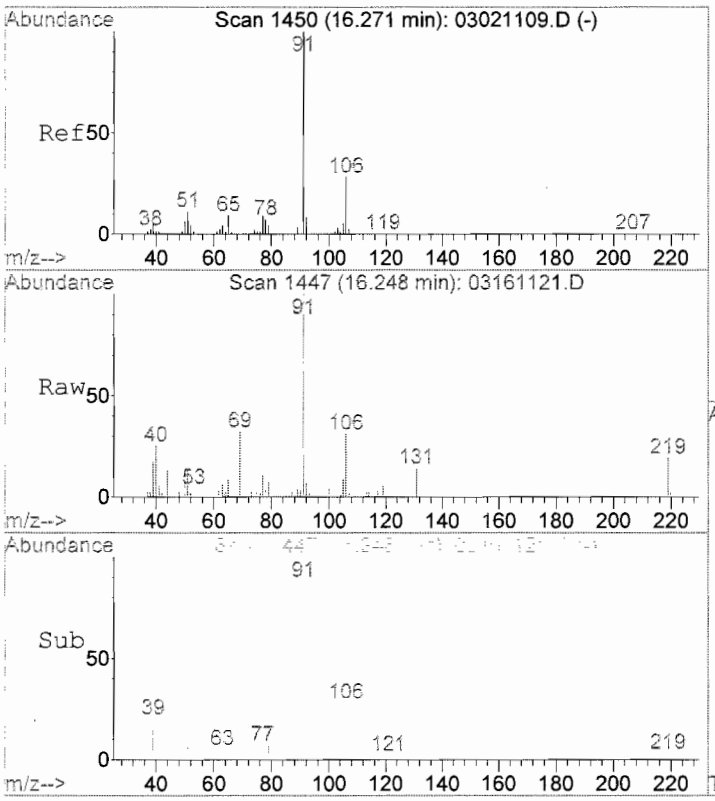


#53
Tetrachloroethene
Concen: 0.40 ug/L
RT: 15.08 min Scan# 1309
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion:164 Resp: 5735

Ion	Ratio	Lower	Upper
164	100		
166	130.4	104.6	157.0
129	79.7	65.2	97.8

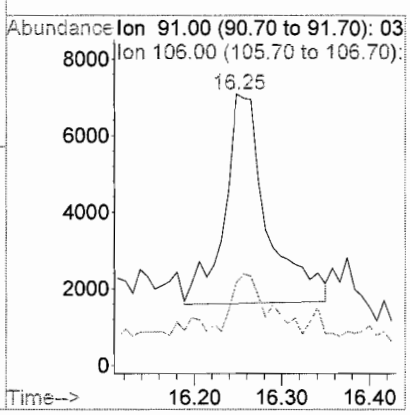


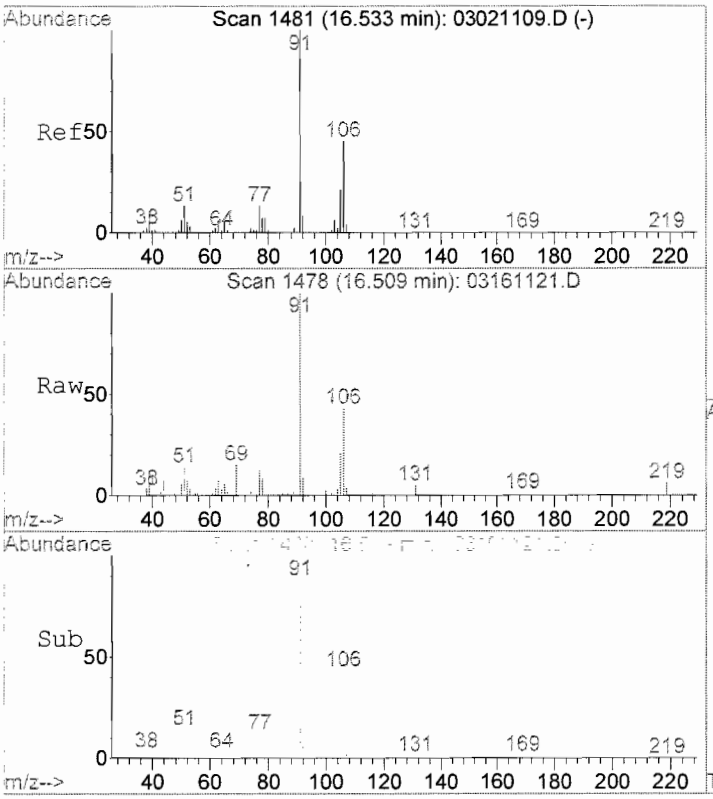


#56
Ethylbenzene
Concen: 0.28 ug/L
RT: 16.25 min Scan# 1447
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 91 Resp: 18584

Ion	Ratio	Lower	Upper
91	100		
106	35.6	22.3	33.5#

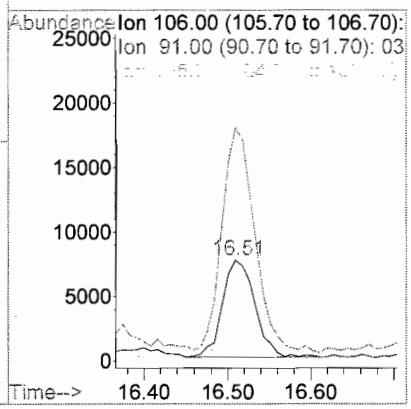




#57
m,p-Xylenes
Concen: 0.86 ug/L
RT: 16.51 min Scan# 1478
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

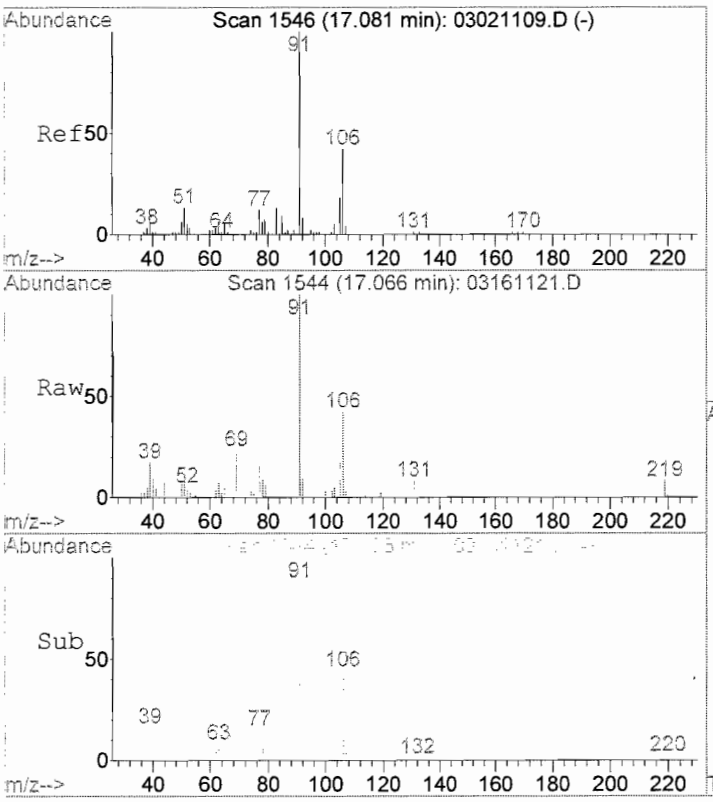
Tgt Ion:106 Resp: 20285

Ion	Ratio	Lower	Upper
106	100		
91	234.3	182.2	273.4
105	48.0	37.7	56.5



NR

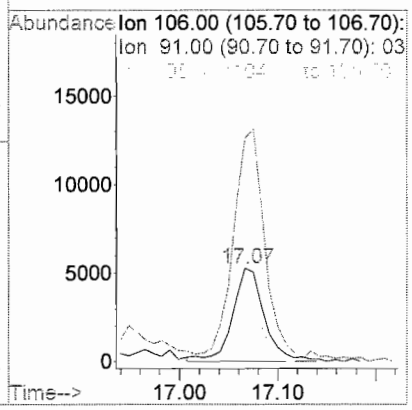
(possible coelution)



#59
o-Xylene
Concen: 0.33 ug/L
RT: 17.07 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

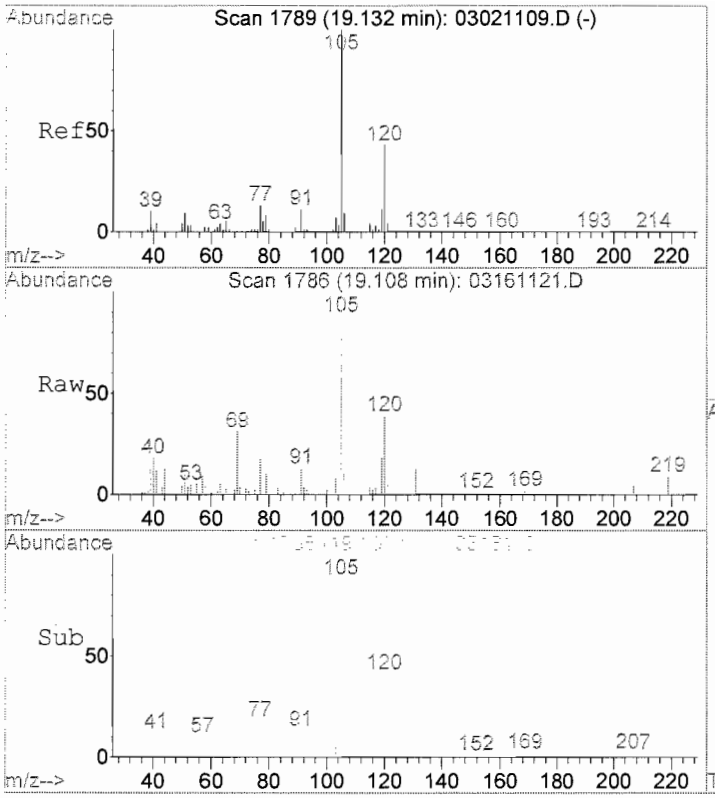
Tgt Ion:106 Resp: 11903

Ion	Ratio	Lower	Upper
106	100		
91	240.4	222.7	262.7
105	46.2	22.9	62.9



NR

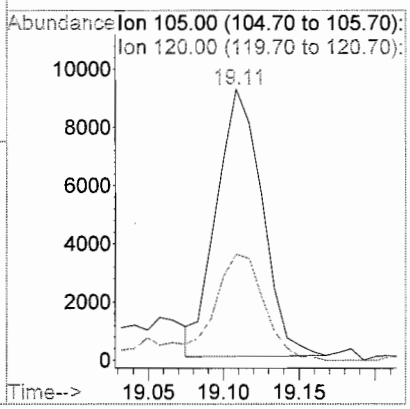
NR

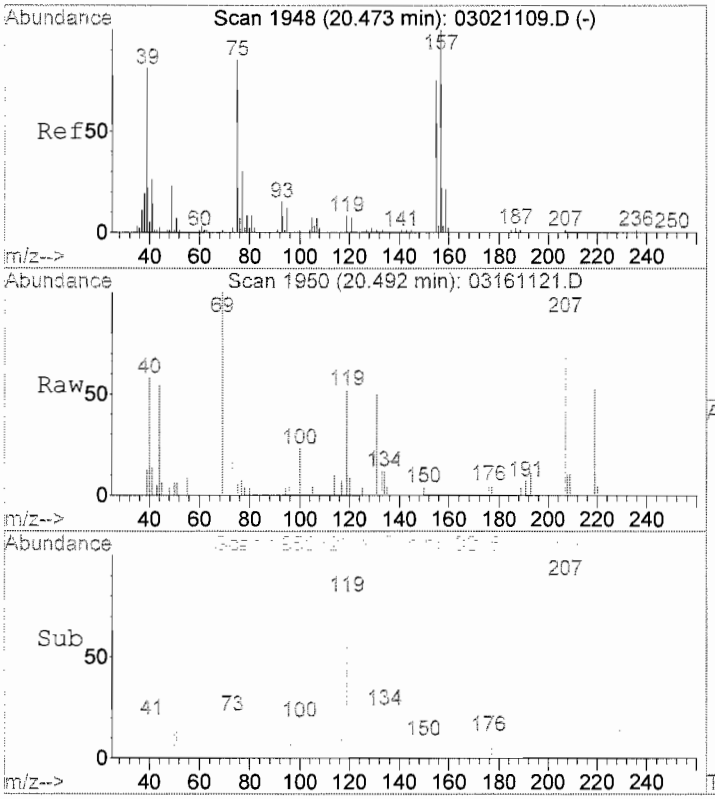


#72
1,2,4-Trimethylbenzene
Concen: 0.34 ug/L
RT: 19.11 min Scan# 1786
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion:105 Resp: 19272

Ion	Ratio	Lower	Upper
105	100		
120	42.0	31.9	47.9

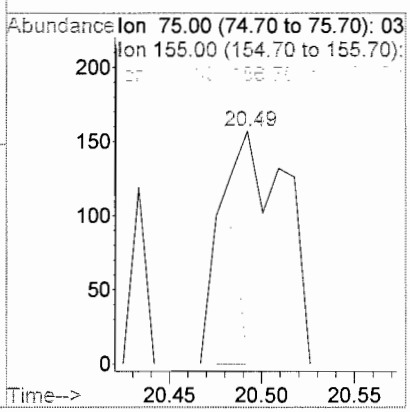


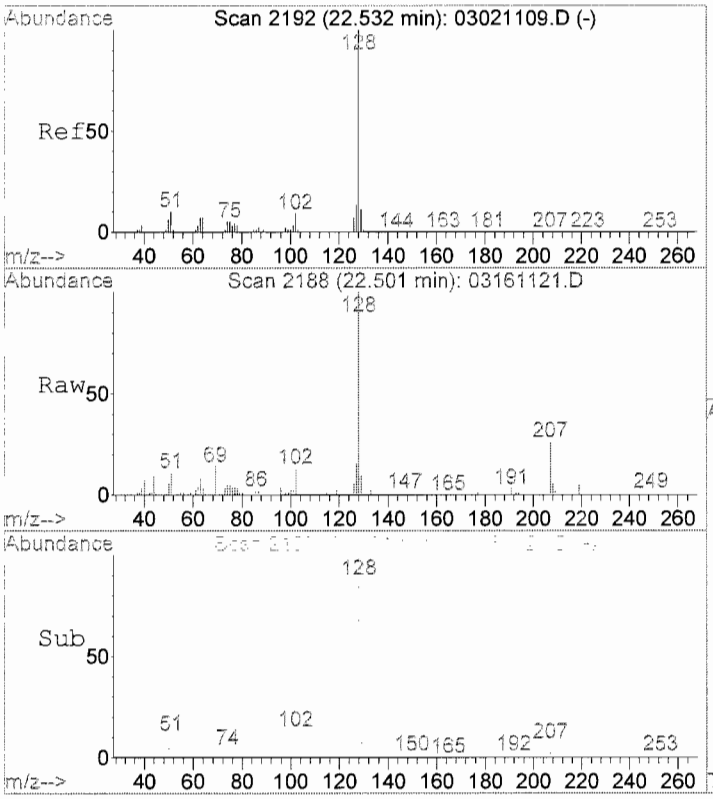


#79
1,2-Dibromo-3-chloropropane
Concen: 0.22 ug/L
RT: 20.49 min Scan# 1950
Delta R.T. 0.05 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion: 75 Resp: 378

Ion	Ratio	Lower	Upper
75	100		
155	0.0	67.3	100.9#
157	13.5	89.6	134.4#

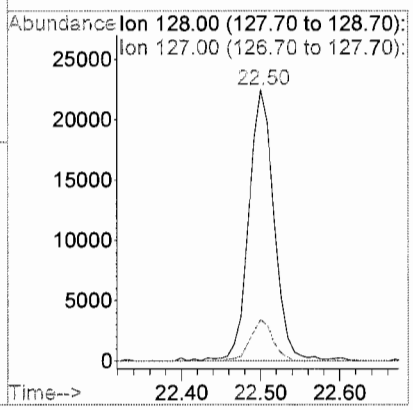




#81
Naphthalene
Concen: 1.94 ug/L
RT: 22.50 min Scan# 2188
Delta R.T. 0.00 min
Lab File: 03161121.D
Acq: 16 Mar 2011 7:16 pm

Tgt Ion:128 Resp: 49879

Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.2	15.4



11C0694

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-VOA-001, Rev. 1
Effective Date: 03/11/2010
Page No.: 1 of 1

ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-001 R.1
GC/MS Volatile Organic Analysis [Method No. EPA 624 & 8260B]

Analysis Date: 03/18/11	Analyst: LC		
Description	**Yes**	**No**	**NA[1]**
1. BFB (50 ng or less): Verify meets criteria every 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.m	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:			
- Second source within historical limits	✓		
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓		
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- LCS/LSCD recoveries within historical limits	✓		
- RPD ≤ 25%	✓	✓	(1)
- Surrogates within historical limits	✓		
6. MS/MSD	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- MS/MSD recoveries within historical limits	✓	✓	(2)
- RPD ≤ 25%	✓	✓	(3)
- Surrogates within historical limits	✓		
7. Samples	✓		
- Analyzed within 14 days of sampling	✓		
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL or CCV	✓		
- Surrogate recoveries within historical limits	✓		
- pH ≤ 2	✓		
- If pH is not ≤ 2, flag data with P and pH Data Qualifier	✓		

Comments:
(1) Trichlorofluoromethane R7
(2) Iodomethane M7
(3) 1,1-DCE, Methylene chloride R2

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:	Analyst: [signature]	Date: 03/21/11
	Reviewer: [signature]	Date: 3/21/11

1) NA: Not Applicable

TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY Air H2O

DATE: 03/18/11 QC BATCH # (s) : 11C0693 11C0694

ANALYST: LC SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\031811

CALIBRATION METHOD(S): 031711.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
8	03181101	Blank	1x10mL	N/A	8260B	H2O	DNU-Clean Out
1	02	Tune	2uL				
9	03	25 PPB CCV	1x10mL				
10	04	20 PPB CCV					Acetone ↑
12	05	11C0693/ 11C0694 -BS1					
13	06	-BSD1					
16	07	-BLK1					
1	08	PUC0904-05A (TB)		≤2			PCE
2	09	0982-05A		≤2			
3	10	0827-02A		≤2			Source
4	11	11C0693 -MS1		≤2			
5	12	-MSD1		≤2			
6	13	PUC1236-01A	2x 0.5cc	N/A		Air	Source ② 1020
7	14	DNU1 -DUP1					② 1023
8	15	PUC1236-02A	1x 10cc				② 1225
9	16	-01A		N/A		Air	Source ② 1435
10	17	11C0693 -DUP1					② 1438
11	18	PUC0827-01A	1x10mL	≤2		H2O	
12	19	-03A		≤2			
14	20	-04A		≤2			
13	21	0829-01A		≤2			
16	22	0730-01B REI		≤2			Possible carryover in original
1	23	0904-04A		≤2			PCE
2	24	1205-01D	10x 1mL	pH=7			
3	25	1116-01E REI	200x 50uL	pH=7			Acetone RR @ 1000x Acetone
4	26	1079-02A (TB)	1x10mL	≤2	624		
5	27	1108-15A		≤2			
8	28	1079-01C		≤2			
			LC 03/21/11				

LC 03/18/11

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537

CALIBRATION STD: 1525

Internal Std: 1522

IS/Surrogate/BFB: 1534 / PU0961

LOT #: N/A

REQUIRED REVIEWS

ARCHON REVIEWED By / Date: LC 03/18/11

SEQUENCE REVIEWED By / Date: LC 03/18/11

FINAL REVIEWER / Date: 3/21/11

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\031811

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	8	03181101.d	1.	BLANK		18 Mar 2011 07:39
2	1	03181102.d	1.	TUNE		18 Mar 2011 08:07
3	9	03181103.d	1.	25 PPB CCV		18 Mar 2011 08:26
4	10	03181104.d	1.	20 PPB CCV		18 Mar 2011 08:57
5	12	03181105.d	1.	-BS1		18 Mar 2011 09:28
6	13	03181106.d	1.	-BSD1		18 Mar 2011 09:58
7	16	03181107.d	1.	-BLK1		18 Mar 2011 10:29
8	1	03181108.d	1.	PUC0904-05	TB	18 Mar 2011 11:00
9	2	03181109.d	1.	PUC0982-05	TB	18 Mar 2011 11:30
10	3	03181110.d	1.	PUC0827-02	SOURCE	18 Mar 2011 12:01
11	4	03181111.d	1.	-MS1		18 Mar 2011 12:32
12	5	03181112.d	1.	-MSD1		18 Mar 2011 13:03
13	6	03181113.d	1.	PUC1236-01	20X	18 Mar 2011 13:33
14	7	03181114.d	1.	-DUP1	20X	18 Mar 2011 14:04
15	8	03181115.d	1.	PUC1236-02		18 Mar 2011 14:35
16	6	03181116.d	1.	PUC1236-01		18 Mar 2011 15:06
17	7	03181117.d	1.	-DUP1		18 Mar 2011 15:37
18	9	03181118.d	1.	PUC0827-01		18 Mar 2011 16:07
19	10	03181119.d	1.	PUC0827-03		18 Mar 2011 16:38
20	12	03181120.d	1.	PUC0827-04		18 Mar 2011 17:09
21	13	03181121.d	1.	PUC0829-01		18 Mar 2011 17:40
22	16	03181122.d	1.	PUC0730-01RE1		18 Mar 2011 18:11
23	1	03181123.d	1.	PUC0904-04		18 Mar 2011 18:42
24	2	03181124.d	1.	PUC1205-01	10X	18 Mar 2011 19:12
25	3	03181125.d	1.	PUC1116-01RE1	200X	18 Mar 2011 19:43
26	4	03181126.d	1.	PUC1079-02 6/4	TB	18 Mar 2011 20:14
27	5	03181127.d	1.	PUC1108-15	TB	18 Mar 2011 20:45
28	8	03181128.d	1.	PUC1079-01		18 Mar 2011 21:15

✓ 3/21/11

03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181101.D Vial: 8
Acq On : 18 Mar 2011 7:39 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:03 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

13/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	177756	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	331366	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	266759	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	116163	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	99689	22.29 ug/L	0.00
Spiked Amount 25.000			Recovery =	89.16%	
39) Toluene-d8	14.11	98	349987	20.94 ug/L	0.00
Spiked Amount 25.000			Recovery =	83.76%	
53) 4-Bromofluorobenzene	17.74	95	122288	20.92 ug/L	0.00
Spiked Amount 25.000			Recovery =	83.68%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1365	0.10 ug/L	91
5) Bromomethane	5.76	94	250	0.30 ug/L #	3
6) Chloroethane	5.99	64	608	0.09 ug/L	89
8) Acetone	6.94	43	10522	7.47 ug/L	97
13) Carbon disulfide	8.03	76	2702	0.15 ug/L	100
21) Chloroform	9.93	83	1240	0.13 ug/L #	71
24) 1,2-Dichloroethane	10.59	62	1040	0.18 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	325	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.11	76	3746	0.62 ug/L #	67
74) Naphthalene	22.63	128	1279	0.21 ug/L	100

DNU - Clean Out

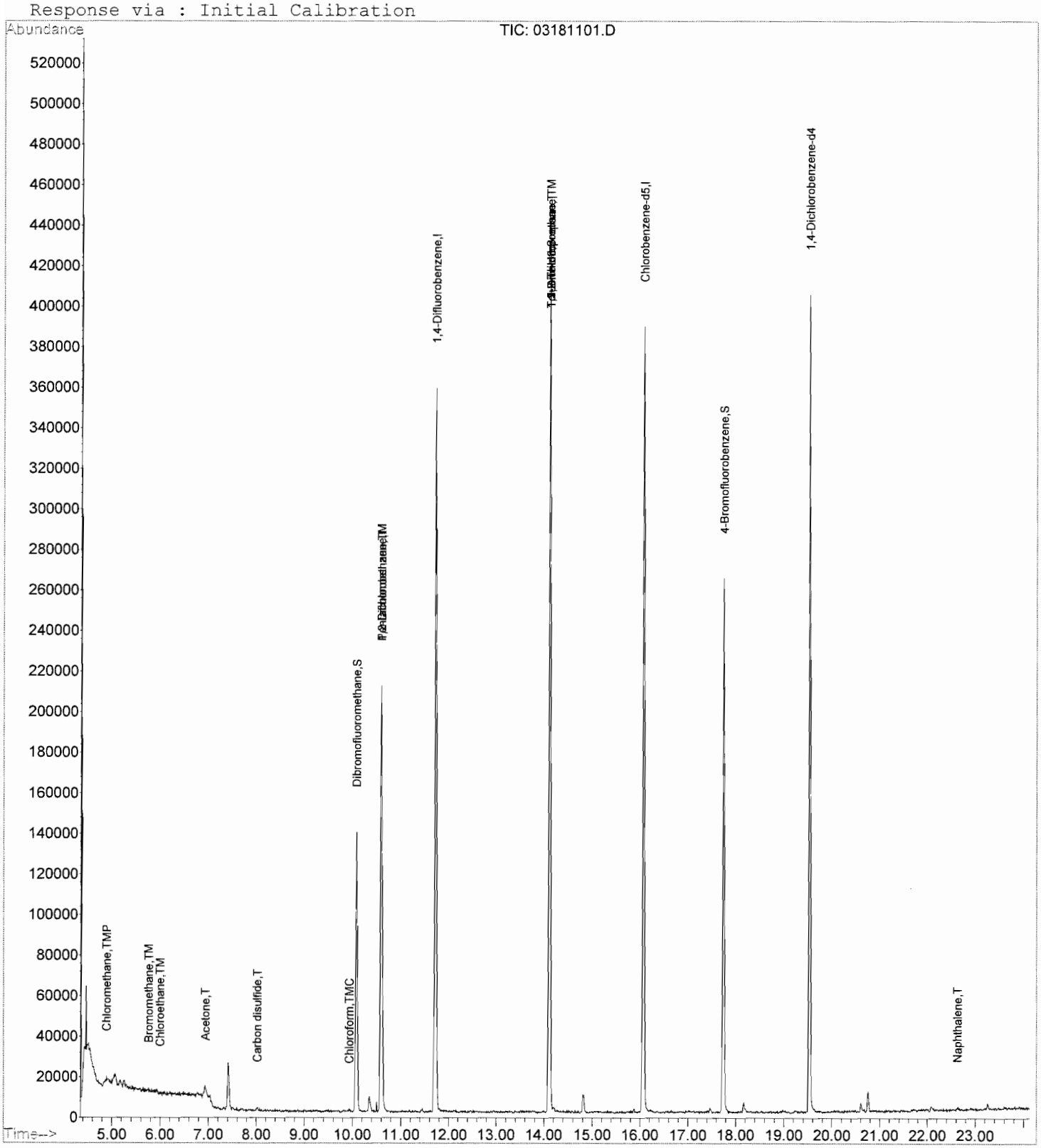
LC 03/21/11

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181101.D Vial: 8
Acq On : 18 Mar 2011 7:39 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:03 2011 Quant Results File: 031711.RES

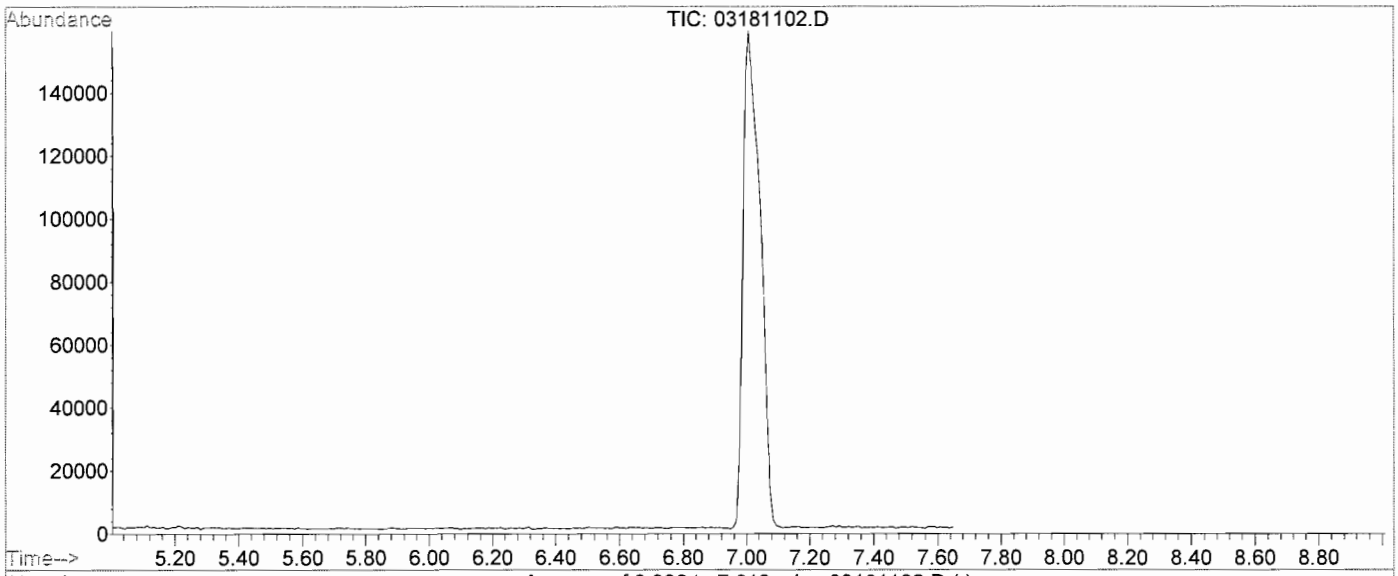
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

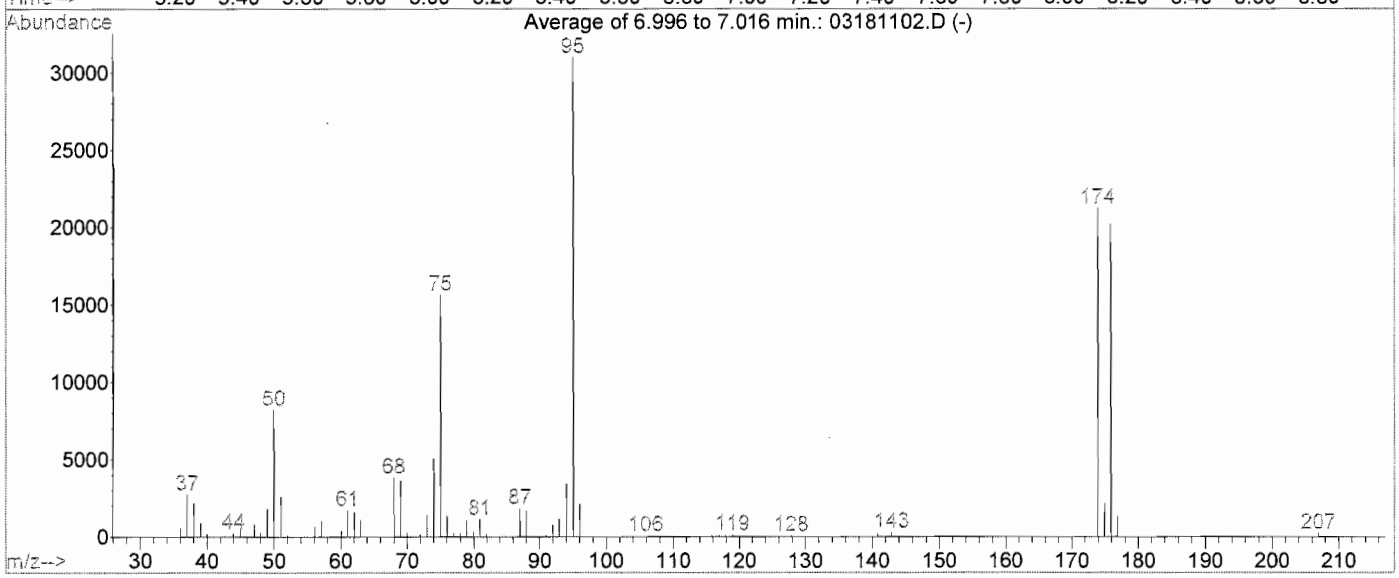


Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181102.D Vial: 1
Acq On : 18 Mar 2011 8:07 am Operator: LC
Sample : TUNE Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B

3/21/11





Spectrum Information: Average of 6.996 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.5	8199	PASS
75	95	30	60	50.5	15631	PASS
95	95	100	100	100.0	30971	PASS
96	95	5	9	6.7	2089	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.5	21208	PASS
175	174	5	9	7.3	1545	PASS
176	174	95	101	95.2	20200	PASS
177	176	5	9	6.4	1295	PASS

LC 03/21/11

NEW8260-CCV

Data File Name	03181103.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031811\
Operator	LC
Date Acquired	3/18/2011 8:26
Acq. Method File	8260B
Sample Name	25 PPB CCV
Instrument Name	GCMS7

Internal Standard	Target Response	CCV Response	Low	High	T/F
Pentafluorobenzene	163018	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	288350	291205	145602.5	582410	TRUE
Chlorobenzene-d5	234811	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	108888	112264	56132	224528	TRUE

Name	Amount	Spike Amount	% REC	Low	High	T/F	
Dichlorodifluoromethane	23.27	25.00	93.09	60	150	TRUE	
Chloromethane	25.59	25.00	102.37	60	140	TRUE	
Vinyl chloride	24.62	25.00	98.47	80	120	TRUE	CCC
Bromomethane	21.53	25.00	86.12	70	140	TRUE	
Chloroethane	24.47	25.00	97.87	70	130	TRUE	
Trichlorofluoromethane	23.49	25.00	93.95	70	150	TRUE	
Acetone	27.89	25.00	111.56	10	150	TRUE	
Iodomethane	24.06	25.00	96.23	70	140	TRUE	
1,1-Dichloroethene	22.74	25.00	90.96	80	120	TRUE	CCC
Methylene chloride	22.89	25.00	91.58	70	120	TRUE	
Freon 113	23.01	25.00	92.02	60	140	TRUE	
Carbon disulfide	23.23	25.00	92.91	70	130	TRUE	
trans-1,2-Dichloroethene	23.40	25.00	93.60	80	120	TRUE	
MTBE	23.54	25.00	94.17	70	130	TRUE	
1,1-Dichloroethane	23.24	25.00	92.94	70	125	TRUE	
Vinyl acetate	23.06	25.00	92.24	40	150	TRUE	
2-Butanone (MEK)	26.67	25.00	106.68	40	150	TRUE	
cis-1,2-Dichloroethene	23.15	25.00	92.60	80	120	TRUE	
Bromochloromethane	23.31	25.00	93.22	80	120	TRUE	
Chloroform	23.43	25.00	93.71	80	120	TRUE	CCC
2,2-Dichloropropane	24.95	25.00	99.80	80	130	TRUE	
Dibromofluoromethane	**23.51**	**25.00**	**94.06**	**80**	**120**	TRUE	
1,2-Dichloroethane	23.56	25.00	94.24	75	130	TRUE	
1,1,1-Trichloroethane	24.05	25.00	96.21	80	120	TRUE	
1,1-Dichloropropene	24.08	25.00	96.30	80	120	TRUE	
Carbon tetrachloride	24.15	25.00	96.59	80	130	TRUE	
Benzene	23.45	25.00	93.80	80	120	TRUE	
Dibromomethane	23.37	25.00	93.48	80	120	TRUE	
1,2-Dichloropropane	23.69	25.00	94.75	80	120	TRUE	CCC
Trichloroethene	23.97	25.00	95.86	80	120	TRUE	
Bromodichloromethane	24.56	25.00	98.25	80	120	TRUE	
2-Chlorovinylethylether	26.44	25.00	105.77	70	135	TRUE	
cis-1,3-Dichloropropene	24.45	25.00	97.78	80	120	TRUE	
4-Methyl-2-pentanone (MIB	23.65	25.00	94.58	60	130	TRUE	
trans-1,3-Dichloropropene	24.28	25.00	97.13	80	125	TRUE	

1,1,2-Trichloroethane	23.01	25.00	92.02	80	120	TRUE	
Toluene-d8	**22.71**	**25.00**	**90.83**	**80**	**120**	TRUE	
Toluene	23.59	25.00	94.37	80	120	TRUE	CCC
1,3-Dichloropropane	23.40	25.00	93.58	80	120	TRUE	
2-Hexanone	25.28	25.00	101.12	20	150	TRUE	
Dibromochloromethane	23.65	25.00	94.61	80	120	TRUE	
1,2-Dibromoethane	23.54	25.00	94.17	80	120	TRUE	
Tetrachloroethene	24.21	25.00	96.84	70	130	TRUE	
1,1,1,2-Tetrachloroethane	23.74	25.00	94.96	80	120	TRUE	
Chlorobenzene	23.51	25.00	94.05	80	120	TRUE	
Ethylbenzene	23.74	25.00	94.97	80	120	TRUE	CCC
m,p-Xylenes	23.67	25.00	94.67	60	140	TRUE	
Styrene	24.79	25.00	99.16	80	120	TRUE	
o-Xylene	23.49	25.00	93.96	80	120	TRUE	
4-Bromofluorobenzene	**23.09**	**25.00**	**92.37**	**80**	**120**	TRUE	
Bromoform	23.96	25.00	95.83	80	120	TRUE	
1,1,2,2-Tetrachloroethane	23.44	25.00	93.74	80	120	TRUE	
1,2,3-Trichloropropane	24.60	25.00	98.39	70	130	TRUE	
Isopropylbenzene	24.64	25.00	98.54	80	130	TRUE	
Bromobenzene	24.09	25.00	96.35	80	120	TRUE	
n-Propylbenzene	24.06	25.00	96.26	75	130	TRUE	
2-Chlorotoluene	23.68	25.00	94.70	80	120	TRUE	
4-Chlorotoluene	24.02	25.00	96.08	80	120	TRUE	
1,3,5-Trimethylbenzene	24.69	25.00	98.77	80	130	TRUE	
tert-Butylbenzene	24.15	25.00	96.59	80	120	TRUE	
1,2,4-Trimethylbenzene	23.94	25.00	95.77	80	120	TRUE	
sec-Butylbenzene	23.83	25.00	95.32	80	125	TRUE	
1,3-Dichlorobenzene	23.84	25.00	95.34	80	120	TRUE	
1,4-Dichlorobenzene	23.69	25.00	94.76	80	120	TRUE	
p-Isopropyltoluene	24.45	25.00	97.79	80	130	TRUE	
1,2-Dichlorobenzene	23.16	25.00	92.64	80	120	TRUE	
n-Butylbenzene	24.37	25.00	97.48	80	130	TRUE	
1,2-Dibromo-3-chloropropa	23.47	25.00	93.88	50	150	TRUE	
1,2,4-Trichlorobenzene	24.30	25.00	97.20	50	150	TRUE	
Naphthalene	22.67	25.00	90.68	40	150	TRUE	
Hexachlorobutadiene	25.09	25.00	100.34	40	150	TRUE	
1,2,3-Trichlorobenzene	24.49	25.00	97.97	60	140	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:03 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11 e

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163018	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	288350	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	234811	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	108888	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	96456	23.51 ug/L	0.00
Spiked Amount 25.000			Recovery = 94.04%		
39) Toluene-d8	14.11	98	330236	22.71 ug/L	0.00
Spiked Amount 25.000			Recovery = 90.84%		
53) 4-Bromofluorobenzene	17.74	95	118842	23.09 ug/L	0.00
Spiked Amount 25.000			Recovery = 92.36%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	179237	23.27 ug/L	97
3) Chloromethane	4.90	50	325877	25.59 ug/L	98
4) Vinyl chloride	5.18	62	279081	24.62 ug/L	99
5) Bromomethane	5.77	94	126891	21.53 ug/L	96
6) Chloroethane	5.98	64	147050	24.47 ug/L	99
7) Trichlorofluoromethane	6.78	101	185141	23.49 ug/L	100
8) Acetone	6.92	43	26901	27.89 ug/L	99
9) Iodomethane	7.57	142	87668	24.06 ug/L	98
10) 1,1-Dichloroethene	7.51	96	104551	22.74 ug/L	99
11) Methylene chloride	7.71	84	123842	22.89 ug/L	99
12) Freon 113	7.77	101	125234	23.01 ug/L	99
13) Carbon disulfide	8.02	76	379972	23.23 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	119037	23.40 ug/L	99
15) MTBE	8.73	73	204673	23.54 ug/L	100
16) 1,1-Dichloroethane	8.92	63	246596	23.24 ug/L	99
17) Vinyl acetate	9.08	43	190087	23.06 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6808	26.67 ug/L	83
19) cis-1,2-Dichloroethene	9.66	96	121956	23.15 ug/L	99
20) Bromochloromethane	9.87	128	44931	23.31 ug/L	96
21) Chloroform	9.92	83	205152	23.43 ug/L	99
22) 2,2-Dichloropropane	10.03	77	177134	24.95 ug/L	100
24) 1,2-Dichloroethane	10.77	62	125911	23.56 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	151238	24.05 ug/L	100
27) 1,1-Dichloropropene	11.15	75	177713	24.08 ug/L	99
28) Carbon tetrachloride	11.38	117	123065	24.15 ug/L	99
29) Benzene	11.43	78	462743	23.45 ug/L	98
30) Dibromomethane	12.16	93	54563	23.37 ug/L	98
31) 1,2-Dichloropropane	12.20	63	130555	23.69 ug/L	99
32) Trichloroethene	12.26	95	118263	23.97 ug/L	99
33) Bromodichloromethane	12.32	83	142290	24.56 ug/L	100
34) 2-Chlorovinylethylether	12.85	63	26853	26.44 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	171902	24.45 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	68113	23.65 ug/L	98
37) trans-1,3-Dichloropropene	13.72	75	131779	24.28 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	60029	23.01 ug/L	98
40) Toluene	14.20	92	264705	23.59 ug/L	98
42) 1,3-Dichloropropane	14.26	76	124306	23.40 ug/L	96

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

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:03 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

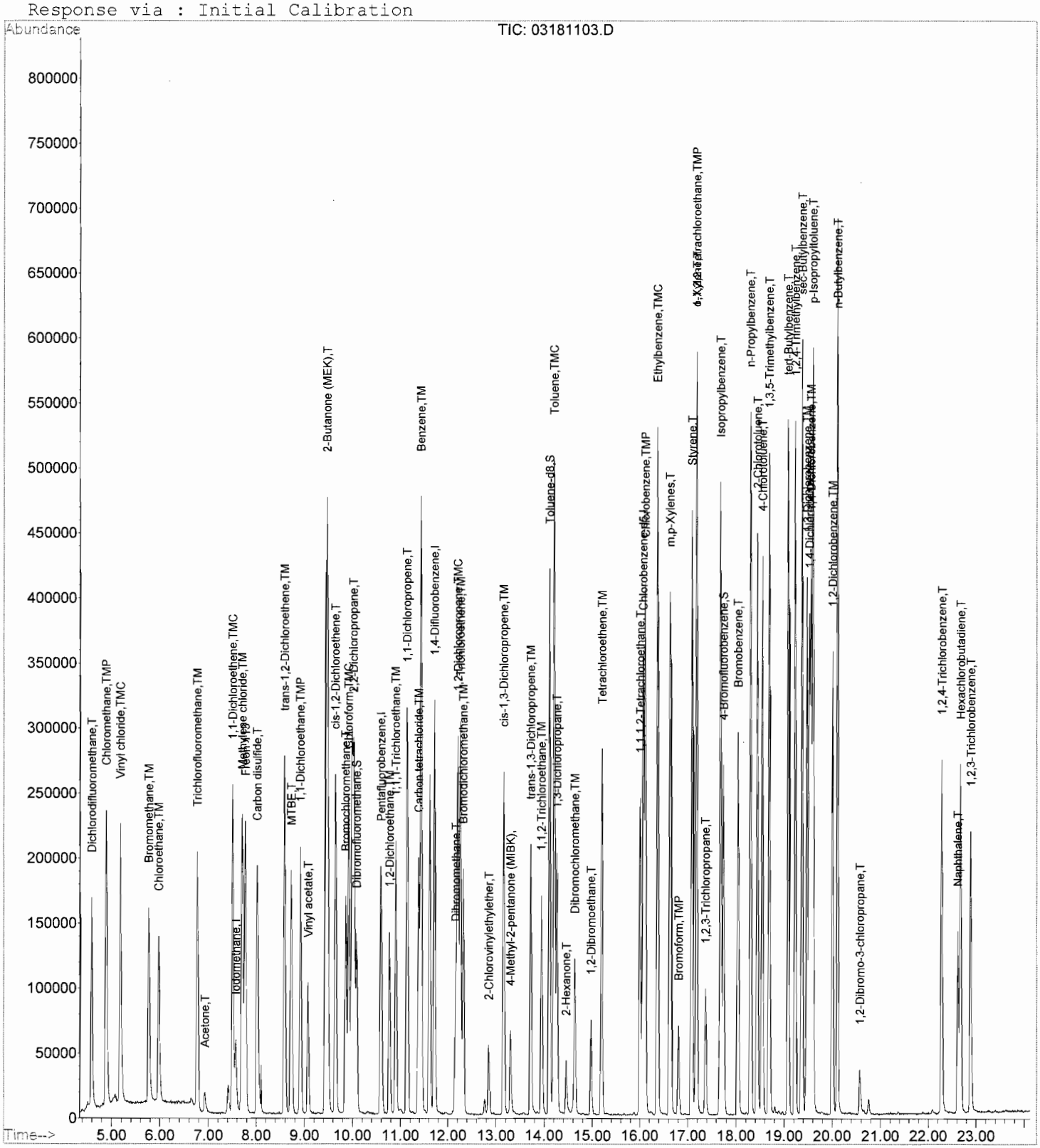
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.46	43	44787	25.28 ug/L #	95
44)	Dibromochloromethane	14.64	129	75574	23.65 ug/L	99
45)	1,2-Dibromoethane	14.97	107	62801	23.54 ug/L	96
46)	Tetrachloroethene	15.20	166	101959	24.21 ug/L	100
47)	1,1,1,2-Tetrachloroethane	16.00	131	82557	23.74 ug/L	97
48)	Chlorobenzene	16.11	112	259478	23.51 ug/L	99
49)	Ethylbenzene	16.38	91	493621	23.74 ug/L	100
50)	m,p-Xylenes	16.63	106	172346	23.67 ug/L	98
51)	Styrene	17.09	104	273768	24.79 ug/L	98
52)	o-Xylene	17.19	106	166268	23.49 ug/L	96
55)	Bromoform	16.81	173	37773	23.96 ug/L	94
56)	1,1,2,2-Tetrachloroethane	17.18	83	74718	23.44 ug/L	99
57)	1,2,3-Trichloropropane	17.38	110	17062	24.60 ug/L	97
58)	Isopropylbenzene	17.69	105	410764	24.64 ug/L	100
59)	Bromobenzene	18.04	156	92660	24.09 ug/L	98
60)	n-Propylbenzene	18.29	91	572801	24.06 ug/L	100
61)	2-Chlorotoluene	18.44	91	330154	23.68 ug/L	99
62)	4-Chlorotoluene	18.55	91	332051	24.02 ug/L	99
63)	1,3,5-Trimethylbenzene	18.70	105	355783	24.69 ug/L	99
64)	tert-Butylbenzene	19.09	119	296214	24.15 ug/L	100
65)	1,2,4-Trimethylbenzene	19.23	105	346750	23.94 ug/L	99
66)	sec-Butylbenzene	19.37	105	501006	23.83 ug/L	100
67)	1,3-Dichlorobenzene	19.48	146	186834	23.84 ug/L	98
68)	1,4-Dichlorobenzene	19.56	146	186953	23.69 ug/L	99
69)	p-Isopropyltoluene	19.60	119	392872	24.45 ug/L	99
70)	1,2-Dichlorobenzene	20.01	146	157901	23.16 ug/L	98
71)	n-Butylbenzene	20.11	91	435904	24.37 ug/L	99
72)	1,2-Dibromo-3-chloropropan	20.57	157	9972	23.47 ug/L	89
73)	1,2,4-Trichlorobenzene	22.28	180	107001	24.30 ug/L	99
74)	Naphthalene	22.62	128	132378	22.67 ug/L	100
75)	Hexachlorobutadiene	22.68	225	70543	25.09 ug/L	97
76)	1,2,3-Trichlorobenzene	22.89	180	87921	24.49 ug/L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:03 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

3/21/11

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	1.181	1.099	6.9	90	0.00
3	TMP	Chloromethane	1.953	1.999	-2.4	101	0.00
4	TMC	Vinyl chloride	1.739	1.712	1.6	98	0.00
5	TM	Bromomethane	0.813	0.778	4.3	90	0.00
6	TM	Chloroethane	0.922	0.902	2.2	98	0.00
7	TM	Trichlorofluoromethane	1.209	1.136	6.0	86	0.00
8	T	Acetone	0.194	0.165	14.9	104	-0.02
9	T	Iodomethane	0.531	0.538	-1.3	89	0.00
10	TMC	1,1-Dichloroethene	0.705	0.641	9.1	94	0.00
11	TM	Methylene chloride	0.830	0.760	8.4	94	0.00
12		Freon 113	0.835	0.768	8.0	94	0.00
13	T	Carbon disulfide	2.509	2.331	7.1	95	0.00
14	TM	trans-1,2-Dichloroethene	0.780	0.730	6.4	94	0.00
15	T	MTBE	1.333	1.256	5.8	95	0.00
16	TMP	1,1-Dichloroethane	1.628	1.513	7.1	93	0.00
17	T	Vinyl acetate	1.264	1.166	7.8	94	0.00
18	T	2-Butanone (MEK)	0.036	0.042#	-16.7	99	0.00
19	T	cis-1,2-Dichloroethene	0.808	0.748	7.4	93	0.00
20	T	Bromochloromethane	0.296	0.276	6.8	95	0.00
21	TMC	Chloroform	1.343	1.258	6.3	94	0.00
22	T	2,2-Dichloropropane	1.089	1.087	0.2	98	0.00
23	S	Dibromofluoromethane	0.629	0.592	5.9	93	0.00
24	TM	1,2-Dichloroethane	0.820	0.772	5.9	92	0.00
25	TM	1,1,1-Trichloroethane	0.964	0.928	3.7	93	0.00
26	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
27	T	1,1-Dichloropropene	0.640	0.616	3.8	93	0.00
28	TM	Carbon tetrachloride	0.442	0.427	3.4	92	0.00
29	TM	Benzene	1.711	1.605	6.2	94	0.00
30	T	Dibromomethane	0.202	0.189	6.4	94	0.00
31	TMC	1,2-Dichloropropane	0.478	0.453	5.2	93	0.00
32	TM	Trichloroethene	0.428	0.410	4.2	95	0.00
33	TM	Bromodichloromethane	0.502	0.493	1.8	94	0.00
34	T	2-Chlorovinylethylether	0.101	0.093#	7.9	93	0.00
35	TM	cis-1,3-Dichloropropene	0.610	0.596	2.3	94	0.00
36		4-Methyl-2-pentanone (MIBK)	0.250	0.236	5.6	95	0.00
37	TM	trans-1,3-Dichloropropene	0.471	0.457	3.0	93	0.00
38	TM	1,1,2-Trichloroethane	0.226	0.208	8.0	90	0.00
39	S	Toluene-d8	1.261	1.145	9.2	92	0.00
40	TMC	Toluene	0.973	0.918	5.7	94	0.00
41	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
42	T	1,3-Dichloropropane	0.566	0.529	6.5	89	0.00
43	T	2-Hexanone	0.189	0.191	-1.1	101	0.00
44	TM	Dibromochloromethane	0.340	0.322	5.3	92	0.00
45	T	1,2-Dibromoethane	0.284	0.267	6.0	89	0.00
46	TM	Tetrachloroethene	0.448	0.434	3.1	93	0.00
47	T	1,1,1,2-Tetrachloroethane	0.370	0.352	4.9	94	0.00
48	TMP	Chlorobenzene	1.175	1.105	6.0	91	0.00

(#) = Out of Range

LC 03/21/11

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	TMC	Ethylbenzene	2.214	2.102	5.1	92	0.00
50	T	m,p-Xylenes	0.775	0.734	5.3	92	0.00
51	T	Styrene	1.176	1.166	0.9	93	0.00
52	T	o-Xylene	0.754	0.708	6.1	93	0.00
53	S	4-Bromofluorobenzene	0.548	0.506	7.7	92	0.00
54		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
55	TMP	Bromoform	0.362	0.347	4.1	89	0.00
56	TMP	1,1,2,2-Tetrachloroethane	0.732	0.686	6.3	91	0.00
57	T	1,2,3-Trichloropropane	0.159	0.157	1.3	91	0.00
58	T	Isopropylbenzene	3.828	3.772	1.5	92	0.00
59	T	Bromobenzene	0.883	0.851	3.6	88	0.00
60	T	n-Propylbenzene	5.465	5.260	3.8	91	0.00
61	T	2-Chlorotoluene	3.202	3.032	5.3	91	0.00
62	T	4-Chlorotoluene	3.174	3.049	3.9	90	0.00
63	T	1,3,5-Trimethylbenzene	3.308	3.267	1.2	93	0.00
64	T	tert-Butylbenzene	2.816	2.720	3.4	91	0.00
65	T	1,2,4-Trimethylbenzene	3.325	3.184	4.2	91	0.00
66	T	sec-Butylbenzene	4.827	4.601	4.7	90	0.00
67	TM	1,3-Dichlorobenzene	1.800	1.716	4.7	91	0.00
68	TM	1,4-Dichlorobenzene	1.812	1.717	5.2	93	0.00
69	T	p-Isopropyltoluene	3.690	3.608	2.2	91	0.00
70	TM	1,2-Dichlorobenzene	1.565	1.450	7.3	88	0.00
71	T	n-Butylbenzene	4.107	4.003	2.5	89	0.00
72	T	1,2-Dibromo-3-chloropropane	0.098	0.092#	6.1	88	0.00
73	T	1,2,4-Trichlorobenzene	1.011	0.983	2.8	87	0.00
74	T	Naphthalene	1.341	1.216	9.3	81	0.00
75	T	Hexachlorobutadiene	0.646	0.648	-0.3	92	0.00
76	T	1,2,3-Trichlorobenzene	0.824	0.807	2.1	87	0.00

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

624-CCV

Data File Name	03181104.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031811\
Operator	LC
Date Acquired	3/18/2011 8:57
Acq. Method File	8260B
Sample Name	20 PPB CCV
Instrument Name	GCMS7

3/21/11

Internal Standard	Target Response	CCV Response	Low	High	T/F
Pentafluorobenzene	157055	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	276535	291205	145602.5	582410	TRUE
Chlorobenzene-d5	227866	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	106277	112264	56132	224528	TRUE

Name	Amount	Spike Amount	% REC	Low	High	T/F
Dichlorodifluoromethane	19.24	20.00	96.20	60	150	TRUE
Chloromethane	19.55	20.00	97.76	0	204	TRUE
Vinyl chloride	19.88	20.00	99.42	4	196	TRUE
Bromomethane	17.87	20.00	89.35	14	186	TRUE
Chloroethane	19.27	20.00	96.34	38	162	TRUE
Trichlorofluoromethane	16.71	20.00	83.55	48	152	TRUE
Acetone	31.46	20.00	157.28	10	150	FALSE
Iodomethane	20.70	20.00	103.51	70	140	TRUE
1,1-Dichloroethene	18.53	20.00	92.66	50	150	TRUE
Methylene chloride	18.11	20.00	90.53	60	140	TRUE
Freon 113	18.69	20.00	93.47	60	140	TRUE
Carbon disulfide	18.72	20.00	93.60	70	130	TRUE
trans-1,2-Dichloroethene	19.23	20.00	96.13	70	130	TRUE
MTBE	17.58	20.00	87.91	70	130	TRUE
1,1-Dichloroethane	18.58	20.00	92.92	72	128	TRUE
Vinyl acetate	17.54	20.00	87.72	40	150	TRUE
2-Butanone (MEK)	24.56	20.00	122.78	40	150	TRUE
cis-1,2-Dichloroethene	18.28	20.00	91.41	80	120	TRUE
Bromochloromethane	18.77	20.00	93.86	80	120	TRUE
Chloroform	18.75	20.00	93.75	68	132	TRUE
2,2-Dichloropropane	20.01	20.00	100.05	80	130	TRUE
Dibromofluoromethane	**19.00**	**20.00**	**95.02**	**80**	**135**	**TRUE**
1,2-Dichloroethane	18.24	20.00	91.19	68	132	TRUE
1,1,1-Trichloroethane	19.74	20.00	98.70	75	125	TRUE
1,1-Dichloropropene	19.34	20.00	96.70	80	120	TRUE
Carbon tetrachloride	20.11	20.00	100.56	73	127	TRUE
Benzene	19.23	20.00	96.17	64	136	TRUE
Dibromomethane	19.15	20.00	95.74	80	120	TRUE
1,2-Dichloropropane	18.68	20.00	93.40	34	166	TRUE
Trichloroethene	19.02	20.00	95.09	66	134	TRUE
Bromodichloromethane	19.00	20.00	95.00	66	134	TRUE
2-Chlorovinylethylether	20.20	20.00	101.02	0	224	TRUE
cis-1,3-Dichloropropene	19.46	20.00	97.28	24	176	TRUE
4-Methyl-2-pentanone (MIB	18.21	20.00	91.06	60	130	TRUE
trans-1,3-Dichloropropene	18.75	20.00	93.77	50	150	TRUE

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1,1,2-Trichloroethane	18.28	20.00	91.42	71	129	TRUE
Toluene-d8	**19.04**	**20.00**	**95.18**	**80**	**125**	**TRUE**
Toluene	19.45	20.00	97.26	74	126	TRUE
1,3-Dichloropropane	18.89	20.00	94.47	80	120	TRUE
2-Hexanone	23.20	20.00	116.02	20	150	TRUE
Dibromochloromethane	18.58	20.00	92.89	68	132	TRUE
1,2-Dibromoethane	18.58	20.00	92.91	80	120	TRUE
Tetrachloroethene	19.74	20.00	98.71	74	126	TRUE
1,1,1,2-Tetrachloroethane	19.01	20.00	95.06	80	120	TRUE
Chlorobenzene	19.15	20.00	95.73	66	134	TRUE
Ethylbenzene	19.61	20.00	98.03	59	141	TRUE
m,p-Xylenes	19.79	20.00	98.97	60	140	TRUE
Styrene	19.87	20.00	99.37	80	120	TRUE
o-Xylene	18.98	20.00	94.92	80	120	TRUE
4-Bromofluorobenzene	**18.78**	**20.00**	**93.91**	**75**	**125**	**TRUE**
Bromoform	19.52	20.00	97.60	71	129	TRUE
1,1,2,2-Tetrachloroethane	18.77	20.00	93.85	60	140	TRUE
1,2,3-Trichloropropane	18.30	20.00	91.51	70	130	TRUE
Isopropylbenzene	20.08	20.00	100.39	80	130	TRUE
Bromobenzene	19.74	20.00	98.72	80	120	TRUE
n-Propylbenzene	20.08	20.00	100.42	75	130	TRUE
2-Chlorotoluene	19.48	20.00	97.38	80	120	TRUE
4-Chlorotoluene	19.56	20.00	97.79	80	120	TRUE
1,3,5-Trimethylbenzene	19.72	20.00	98.62	80	130	TRUE
tert-Butylbenzene	20.07	20.00	100.35	80	120	TRUE
1,2,4-Trimethylbenzene	19.61	20.00	98.03	80	120	TRUE
sec-Butylbenzene	19.96	20.00	99.82	80	120	TRUE
1,3-Dichlorobenzene	19.48	20.00	97.41	73	127	TRUE
1,4-Dichlorobenzene	19.18	20.00	95.90	63	137	TRUE
p-Isopropyltoluene	20.08	20.00	100.39	80	130	TRUE
1,2-Dichlorobenzene	18.87	20.00	94.34	63	137	TRUE
n-Butylbenzene	20.41	20.00	102.05	80	130	TRUE
1,2-Dibromo-3-chloropropa	19.38	20.00	96.91	50	150	TRUE
1,2,4-Trichlorobenzene	20.55	20.00	102.74	50	150	TRUE
Naphthalene	19.39	20.00	96.94	40	150	TRUE
Hexachlorobutadiene	20.57	20.00	102.84	40	150	TRUE
1,2,3-Trichlorobenzene	19.64	20.00	98.19	60	140	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181104.D Vial: 10
Acq On : 18 Mar 2011 8:57 am Operator: LC
Sample : 20 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:04 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	157055	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	276535	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	227866	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	106277	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	75103	19.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	76.00%	
39) Toluene-d8	14.11	98	265500	19.04 ug/L	0.00
Spiked Amount 25.000			Recovery =	76.16%	
53) 4-Bromofluorobenzene	17.74	95	93796	18.78 ug/L	0.00
Spiked Amount 25.000			Recovery =	75.12%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	142752	19.24 ug/L	98
3) Chloromethane	4.89	50	239859	19.55 ug/L	100
4) Vinyl chloride	5.18	62	217174	19.88 ug/L	100
5) Bromomethane	5.77	94	101214	17.87 ug/L	100
6) Chloroethane	5.98	64	111571	19.27 ug/L	98
7) Trichlorofluoromethane	6.78	101	126902	16.71 ug/L	98
8) Acetone	6.93	43	28819	31.46 ug/L	99
9) Iodomethane	7.57	142	72614	20.70 ug/L	95
10) 1,1-Dichloroethene	7.50	96	82093	18.53 ug/L	97
11) Methylene chloride	7.71	84	94356	18.11 ug/L	99
12) Freon 113	7.78	101	98039	18.69 ug/L	98
13) Carbon disulfide	8.02	76	295029	18.72 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	94225	19.23 ug/L	96
15) MTBE	8.73	73	147259	17.58 ug/L	100
16) 1,1-Dichloroethane	8.92	63	190004	18.58 ug/L	100
17) Vinyl acetate	9.08	43	139327	17.54 ug/L	100
18) 2-Butanone (MEK)	9.46	72	6021	24.56 ug/L	44
19) cis-1,2-Dichloroethene	9.66	96	92791	18.28 ug/L	98
20) Bromochloromethane	9.87	128	34867	18.77 ug/L	99
21) Chloroform	9.93	83	158181	18.75 ug/L	99
22) 2,2-Dichloropropane	10.03	77	136873	20.01 ug/L	98
24) 1,2-Dichloroethane	10.77	62	93902	18.24 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	119584	19.74 ug/L	98
27) 1,1-Dichloropropene	11.14	75	136911	19.34 ug/L	98
28) Carbon tetrachloride	11.38	117	98296	20.11 ug/L	100
29) Benzene	11.43	78	363998	19.23 ug/L	99
30) Dibromomethane	12.17	93	42873	19.15 ug/L	96
31) 1,2-Dichloropropane	12.21	63	98741	18.68 ug/L	99
32) Trichloroethene	12.26	95	90004	19.02 ug/L	98
33) Bromodichloromethane	12.32	83	105561	19.00 ug/L	96
34) 2-Chlorovinylethylether	12.85	63	20004	20.20 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	131213	19.46 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.30	43	50309	18.21 ug/L	97
37) trans-1,3-Dichloropropene	13.73	75	97604	18.75 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	45752	18.28 ug/L	98
40) Toluene	14.20	92	209288	19.45 ug/L	98
42) 1,3-Dichloropropane	14.26	76	97422	18.89 ug/L	100

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

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181104.D Vial: 10
Acq On : 18 Mar 2011 8:57 am Operator: LC
Sample : 20 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:04 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

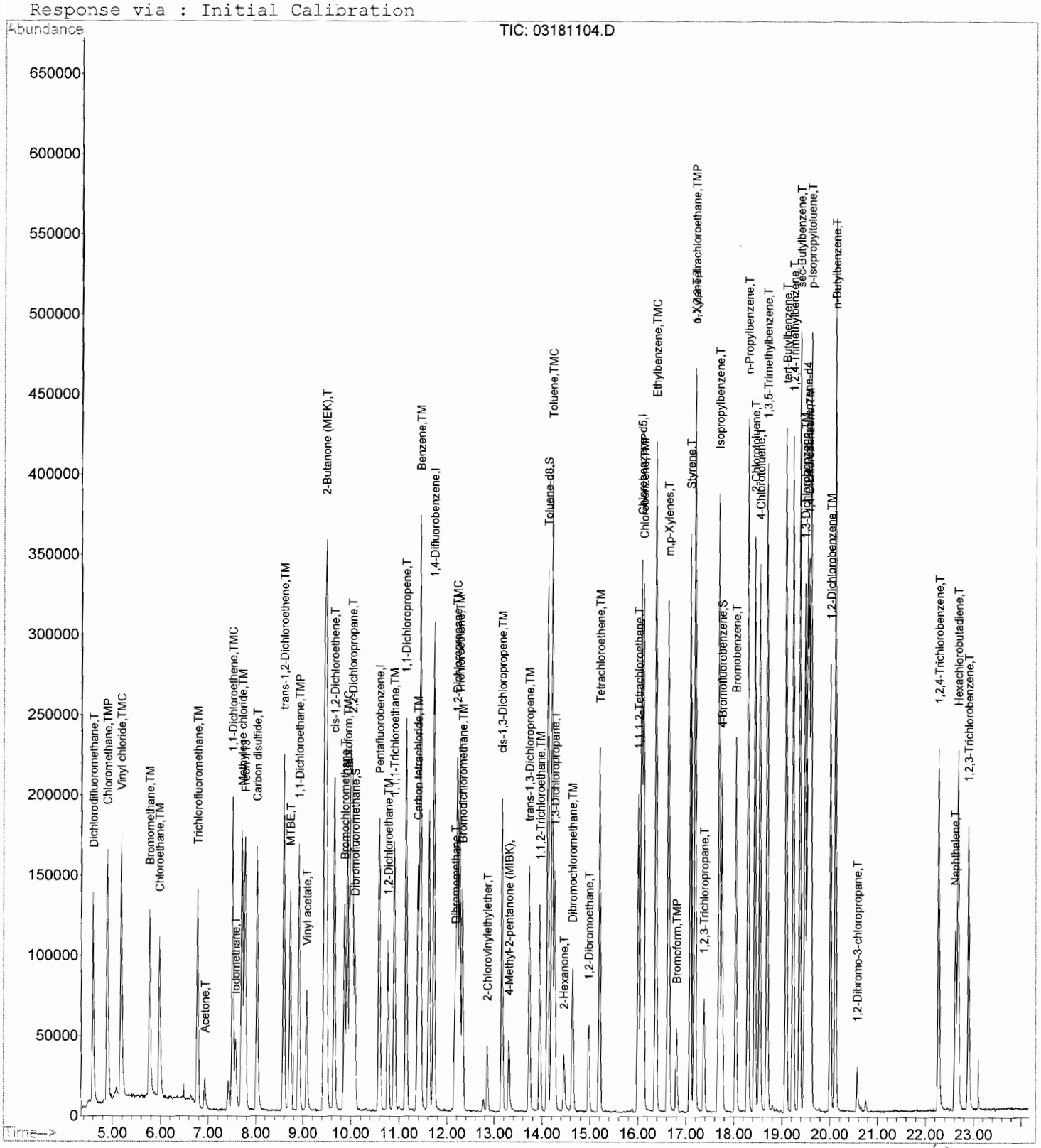
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.46	43	39890	23.20 ug/L #	94
44)	Dibromochloromethane	14.64	129	57602	18.58 ug/L	98
45)	1,2-Dibromoethane	14.97	107	48100	18.58 ug/L #	95
46)	Tetrachloroethene	15.20	166	80678	19.74 ug/L	99
47)	1,1,1,2-Tetrachloroethane	16.00	131	64157	19.01 ug/L	98
48)	Chlorobenzene	16.11	112	205029	19.15 ug/L	98
49)	Ethylbenzene	16.37	91	395546	19.61 ug/L	99
50)	m,p-Xylenes	16.64	106	139874	19.79 ug/L	98
51)	Styrene	17.08	104	212992	19.87 ug/L	99
52)	o-Xylene	17.19	106	130400	18.98 ug/L	99
55)	Bromoform	16.81	173	30036	19.52 ug/L	98
56)	1,1,2,2-Tetrachloroethane	17.18	83	58407	18.77 ug/L	98
57)	1,2,3-Trichloropropane	17.38	110	12391	18.30 ug/L	95
58)	Isopropylbenzene	17.68	105	326744	20.08 ug/L	100
59)	Bromobenzene	18.05	156	74132	19.74 ug/L	98
60)	n-Propylbenzene	18.30	91	466596	20.08 ug/L	100
61)	2-Chlorotoluene	18.44	91	265078	19.48 ug/L	99
62)	4-Chlorotoluene	18.55	91	263901	19.56 ug/L	99
63)	1,3,5-Trimethylbenzene	18.70	105	277370	19.72 ug/L	98
64)	tert-Butylbenzene	19.09	119	240291	20.07 ug/L	99
65)	1,2,4-Trimethylbenzene	19.23	105	277139	19.61 ug/L	99
66)	sec-Butylbenzene	19.37	105	409665	19.96 ug/L	100
67)	1,3-Dichlorobenzene	19.48	146	149039	19.48 ug/L	99
68)	1,4-Dichlorobenzene	19.56	146	147736	19.18 ug/L	100
69)	p-Isopropyltoluene	19.60	119	314903	20.08 ug/L	100
70)	1,2-Dichlorobenzene	20.01	146	125550	18.87 ug/L	99
71)	n-Butylbenzene	20.11	91	356319	20.41 ug/L	100
72)	1,2-Dibromo-3-chloropropan	20.58	157	8037	19.38 ug/L	97
73)	1,2,4-Trichlorobenzene	22.28	180	88303	20.55 ug/L	97
74)	Naphthalene	22.62	128	110494	19.39 ug/L	100
75)	Hexachlorobutadiene	22.68	225	56455	20.57 ug/L	99
76)	1,2,3-Trichlorobenzene	22.89	180	68806	19.64 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181104.D Vial: 10
Acq On : 18 Mar 2011 8:57 am Operator: LC
Sample : 20 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:04 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181105.D Vial: 12
Acq On : 18 Mar 2011 9:28 am Operator: LC
Sample : -BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	182246	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	312595	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	260286	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	121474	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	97638	21.29 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.16%	
39) Toluene-d8	14.11	98	344883	21.88 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.52%	
53) 4-Bromofluorobenzene	17.75	95	121059	21.22 ug/L	0.00
Spiked Amount 25.000			Recovery =	84.88%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	182948	21.25 ug/L	97
3) Chloromethane	4.89	50	314246	22.08 ug/L	99
4) Vinyl chloride	5.18	62	280737	22.15 ug/L	99
5) Bromomethane	5.78	94	135984	20.65 ug/L	99
6) Chloroethane	5.98	64	142496	21.21 ug/L	98
7) Trichlorofluoromethane	6.77	101	172056	19.53 ug/L	98
8) Acetone	6.93	43	31094	28.97 ug/L	99
9) Iodomethane	7.57	142	100662	24.71 ug/L	98
10) 1,1-Dichloroethene	7.51	96	105539	20.53 ug/L	99
11) Methylene chloride	7.71	84	123339	20.40 ug/L	97
12) Freon 113	7.77	101	123416	20.28 ug/L	99
13) Carbon disulfide	8.02	76	442180	24.18 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	118570	20.85 ug/L	99
15) MTBE	8.73	73	188026	19.35 ug/L	100
16) 1,1-Dichloroethane	8.92	63	239379	20.18 ug/L	99
17) Vinyl acetate	9.08	43	235500	25.56 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6862	24.13 ug/L	65
19) cis-1,2-Dichloroethene	9.65	96	117987	20.03 ug/L	98
20) Bromochloromethane	9.86	128	44531	20.66 ug/L	93
21) Chloroform	9.92	83	194653	19.88 ug/L	100
22) 2,2-Dichloropropane	10.03	77	169158	21.31 ug/L	99
24) 1,2-Dichloroethane	10.77	62	120404	20.15 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	148836	21.17 ug/L	99
27) 1,1-Dichloropropene	11.14	75	174100	21.76 ug/L	99
28) Carbon tetrachloride	11.39	117	122228	22.12 ug/L	99
29) Benzene	11.44	78	438739	20.51 ug/L	99
30) Dibromomethane	12.16	93	53588	21.17 ug/L	99
31) 1,2-Dichloropropane	12.20	63	127359	21.31 ug/L	99
32) Trichloroethene	12.26	95	113932	21.30 ug/L	99
33) Bromodichloromethane	12.32	83	137464	21.89 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	31470	28.71 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	166307	21.82 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	73932	23.68 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	134449	22.85 ug/L	100
38) 1,1,2-Trichloroethane	13.94	83	60857	21.51 ug/L	99
40) Toluene	14.21	92	262154	21.55 ug/L	98
42) 1,3-Dichloropropane	14.27	76	125581	21.32 ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181105.D Vial: 12
Acq On : 18 Mar 2011 9:28 am Operator: LC
Sample : -BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

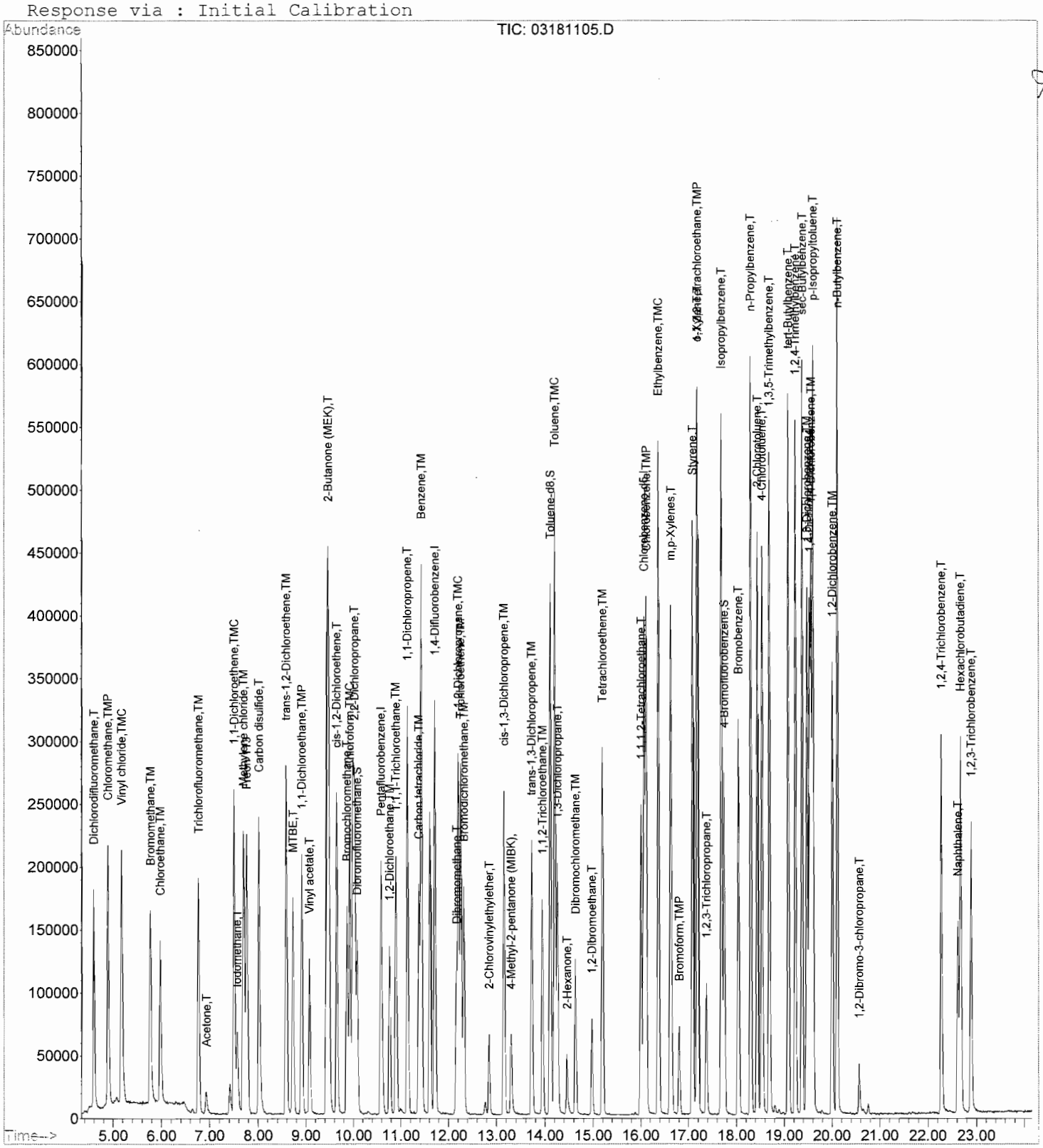
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	50927	25.93 ug/L #	96
44) Dibromochloromethane	14.64	129	76883	21.71 ug/L	99
45) 1,2-Dibromoethane	14.98	107	65244	22.07 ug/L	99
46) Tetrachloroethene	15.20	166	101494	21.74 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	83912	21.77 ug/L	98
48) Chlorobenzene	16.12	112	264705	21.64 ug/L	100
49) Ethylbenzene	16.37	91	504751	21.90 ug/L	99
50) m,p-Xylenes	16.63	106	174150	21.57 ug/L	99
51) Styrene	17.09	104	278172	22.72 ug/L	99
52) o-Xylene	17.19	106	168060	21.42 ug/L	97
55) Bromoform	16.81	173	39843	22.65 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.18	83	80936	22.76 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	18587	24.02 ug/L	99
58) Isopropylbenzene	17.69	105	459105	24.68 ug/L	99
59) Bromobenzene	18.04	156	98916	23.05 ug/L	100
60) n-Propylbenzene	18.30	91	622654	23.45 ug/L	100
61) 2-Chlorotoluene	18.44	91	339207	21.80 ug/L	100
62) 4-Chlorotoluene	18.54	91	353005	22.89 ug/L	98
63) 1,3,5-Trimethylbenzene	18.69	105	372674	23.19 ug/L	100
64) tert-Butylbenzene	19.08	119	307984	22.51 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	376349	23.29 ug/L	100
66) sec-Butylbenzene	19.38	105	525907	22.42 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	194463	22.24 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	195820	22.24 ug/L	98
69) p-Isopropyltoluene	19.60	119	411186	22.94 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	167002	21.96 ug/L	99
71) n-Butylbenzene	20.11	91	462490	23.18 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	11249	23.73 ug/L	94
73) 1,2,4-Trichlorobenzene	22.27	180	118367	24.10 ug/L	100
74) Naphthalene	22.62	128	150647	23.13 ug/L	100
75) Hexachlorobutadiene	22.68	225	74201	23.65 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	93730	23.40 ug/L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181105.D Vial: 12
Acq On : 18 Mar 2011 9:28 am Operator: LC
Sample : -BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181106.D Vial: 13
Acq On : 18 Mar 2011 9:58 am Operator: LC
Sample : -BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.59	168	175804	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.72	114	306741	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	252270	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	117522	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	96696	21.86 ug/L	0.00
Spiked Amount 25.000			Recovery = 87.44%		
39) Toluene-d8	14.11	98	334399	21.62 ug/L	-0.01
Spiked Amount 25.000			Recovery = 86.48%		
53) 4-Bromofluorobenzene	17.75	95	118487	21.43 ug/L	0.00
Spiked Amount 25.000			Recovery = 85.72%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	180997	21.79 ug/L	98
3) Chloromethane	4.89	50	318533	23.20 ug/L	98
4) Vinyl chloride	5.18	62	274420	22.45 ug/L	100
5) Bromomethane	5.77	94	141075	22.19 ug/L	97
6) Chloroethane	5.98	64	144438	22.28 ug/L	98
7) Trichlorofluoromethane	6.77	101	207424	24.40 ug/L	96 R7
8) Acetone	6.93	43	31757	30.90 ug/L	99
9) Iodomethane	7.57	142	113288	28.80 ug/L	98
10) 1,1-Dichloroethene	7.51	96	108122	21.81 ug/L	97
11) Methylene chloride	7.70	84	121648	20.85 ug/L	97
12) Freon 113	7.77	101	122012	20.78 ug/L	98
13) Carbon disulfide	8.02	76	438717	24.87 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	120249	21.92 ug/L	98
15) MTBE	8.73	73	189019	20.16 ug/L	99
16) 1,1-Dichloroethane	8.91	63	245777	21.47 ug/L	99
17) Vinyl acetate	9.07	43	228970	25.76 ug/L	100
18) 2-Butanone (MEK)	9.46	72	6704	24.43 ug/L	65
19) cis-1,2-Dichloroethene	9.65	96	114286	20.12 ug/L	98
20) Bromochloromethane	9.87	128	44372	21.34 ug/L	94
21) Chloroform	9.92	83	196139	20.77 ug/L	99
22) 2,2-Dichloropropane	10.03	77	164872	21.53 ug/L	98
24) 1,2-Dichloroethane	10.77	62	120017	20.82 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	147857	21.80 ug/L	99
27) 1,1-Dichloropropene	11.14	75	173644	22.11 ug/L	99
28) Carbon tetrachloride	11.38	117	123105	22.71 ug/L	99
29) Benzene	11.44	78	443552	21.13 ug/L	99
30) Dibromomethane	12.16	93	53816	21.67 ug/L	98
31) 1,2-Dichloropropane	12.21	63	126500	21.57 ug/L	100
32) Trichloroethene	12.26	95	112981	21.52 ug/L	99
33) Bromodichloromethane	12.32	83	130685	21.21 ug/L	98
34) 2-Chlorovinylethylether	12.85	63	37137	34.83 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	163208	21.82 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	71123	23.21 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	128270	22.22 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	59287	21.36 ug/L	99
40) Toluene	14.21	92	265245	22.22 ug/L	99
42) 1,3-Dichloropropane	14.27	76	121210	21.23 ug/L	97

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

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181106.D Vial: 13
Acq On : 18 Mar 2011 9:58 am Operator: LC
Sample : -BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

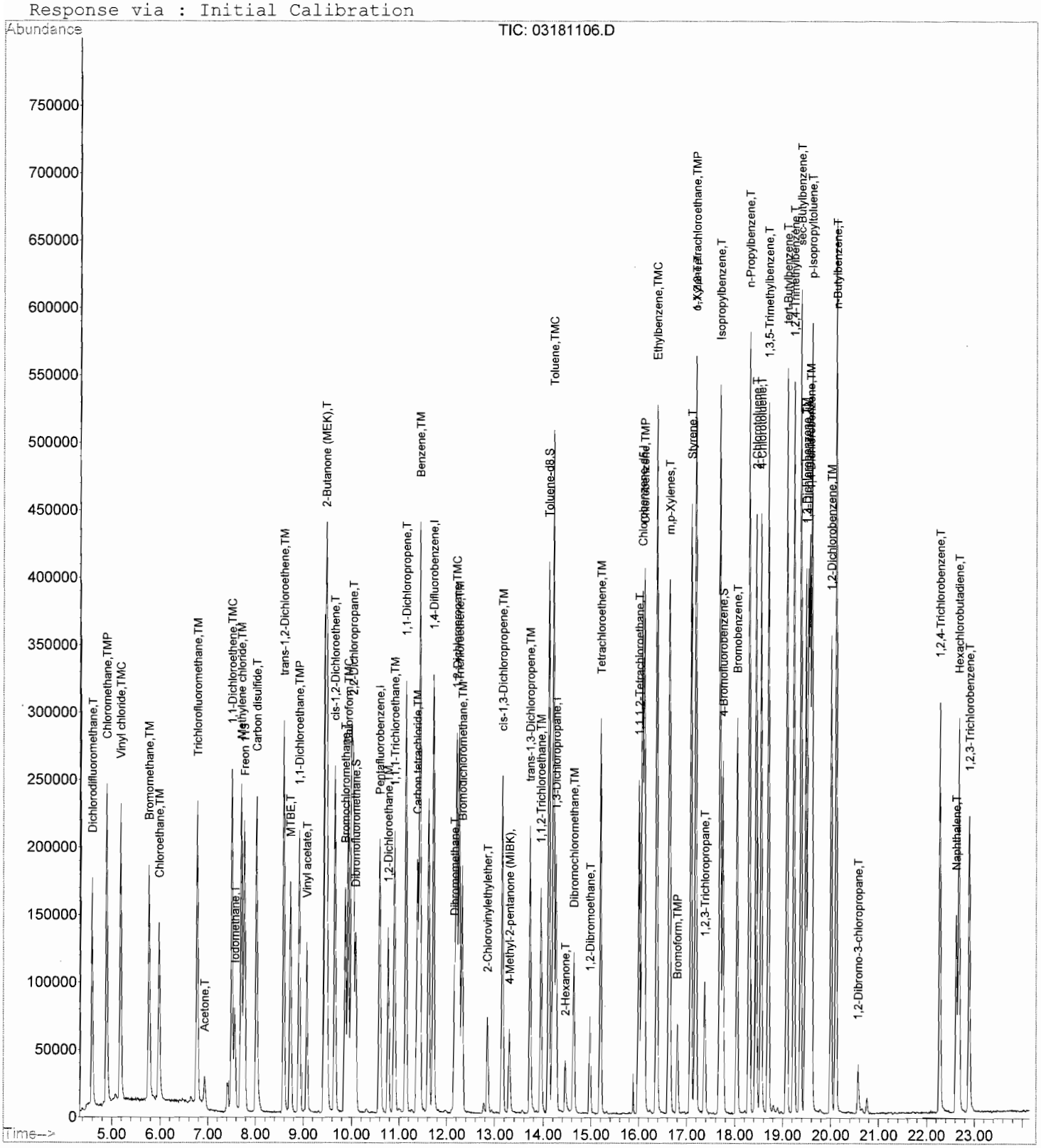
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	43474	22.84 ug/L #	99
44) Dibromochloromethane	14.64	129	75269	21.93 ug/L	100
45) 1,2-Dibromoethane	14.98	107	62868	21.94 ug/L	100
46) Tetrachloroethene	15.20	166	100471	22.21 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	80680	21.60 ug/L	98
48) Chlorobenzene	16.12	112	257066	21.68 ug/L	100
49) Ethylbenzene	16.37	91	488012	21.85 ug/L	100
50) m,p-Xylenes	16.63	106	172861	22.09 ug/L	99
51) Styrene	17.09	104	267379	22.53 ug/L	99
52) o-Xylene	17.19	106	161099	21.18 ug/L	98
55) Bromoform	16.81	173	37612	22.10 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.17	83	74403	21.62 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	16478	22.01 ug/L	95
58) Isopropylbenzene	17.69	105	449329	24.97 ug/L	100
59) Bromobenzene	18.04	156	94783	22.83 ug/L	100
60) n-Propylbenzene	18.30	91	600401	23.37 ug/L	100
61) 2-Chlorotoluene	18.44	91	330443	21.95 ug/L	99
62) 4-Chlorotoluene	18.54	91	337065	22.59 ug/L	99
63) 1,3,5-Trimethylbenzene	18.69	105	354260	22.78 ug/L	99
64) tert-Butylbenzene	19.08	119	296080	22.36 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	362793	23.21 ug/L	100
66) sec-Butylbenzene	19.37	105	515360	22.71 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	188143	22.24 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	187866	22.06 ug/L	99
69) p-Isopropyltoluene	19.61	119	401057	23.12 ug/L	100
70) 1,2-Dichlorobenzene	20.00	146	161564	21.96 ug/L	99
71) n-Butylbenzene	20.11	91	449063	23.26 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	10233	22.32 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	116766	24.57 ug/L	98
74) Naphthalene	22.62	128	147814	23.45 ug/L	100
75) Hexachlorobutadiene	22.67	225	71796	23.66 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	92276	23.82 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181106.D Vial: 13
Acq On : 18 Mar 2011 9:58 am Operator: LC
Sample : -BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181107.D Vial: 16
Acq On : 18 Mar 2011 10:29 am Operator: LC
Sample : -BLK1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:06 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	181068	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	320896	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	263768	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	119729	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	97358	21.37 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.48%	
39) Toluene-d8	14.11	98	346709	21.42 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.68%	
53) 4-Bromofluorobenzene	17.74	95	119348	20.64 ug/L	0.00
Spiked Amount 25.000			Recovery =	82.56%	

Target Compounds					Qvalue
5) Bromomethane	5.71	94	166	0.28 ug/L	NOSM 92
8) Acetone	6.93	43	1482	Below Cal	#LRLNT 65
9) Iodomethane	7.58	142	159	0.17 ug/L	#NOSM 32
42) 1,3-Dichloropropane	14.11	76	3902	0.65 ug/L	#NORT 68
73) 1,2,4-Trichlorobenzene	22.28	180	828	0.17 ug/L	LRL/NT 82
74) Naphthalene	22.63	128	8346	1.30 ug/L	100 J
76) 1,2,3-Trichlorobenzene	22.90	180	793	0.20 ug/L	# 56

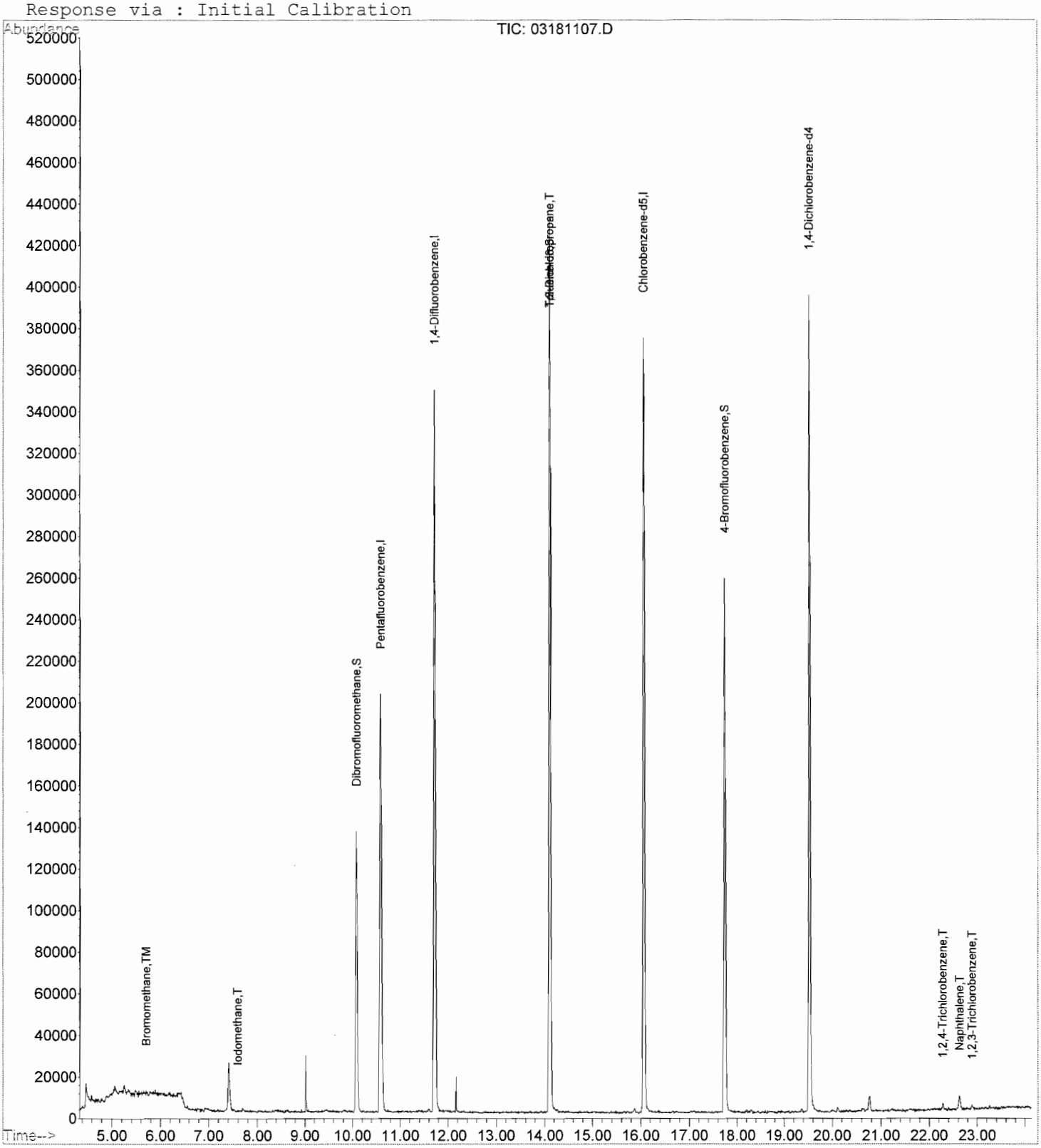
LC 03/21/11

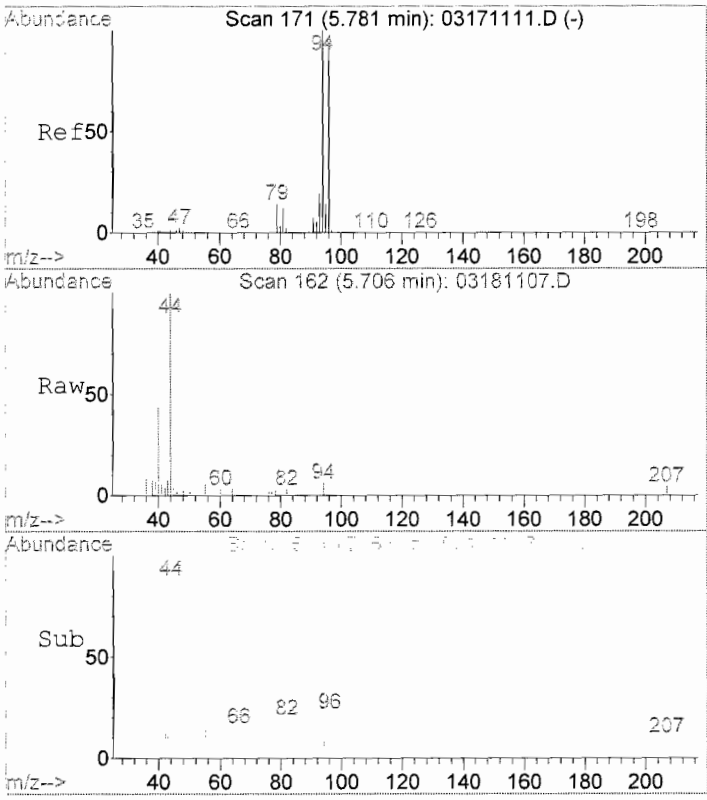
(#) = qualifier out of range (m) = manual integration
03181107.D 031711.M Fri Mar 18 12:06:26 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181107.D Vial: 16
Acq On : 18 Mar 2011 10:29 am Operator: LC
Sample : -BLK1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:06 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

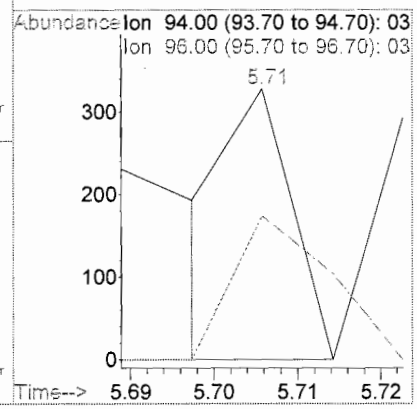


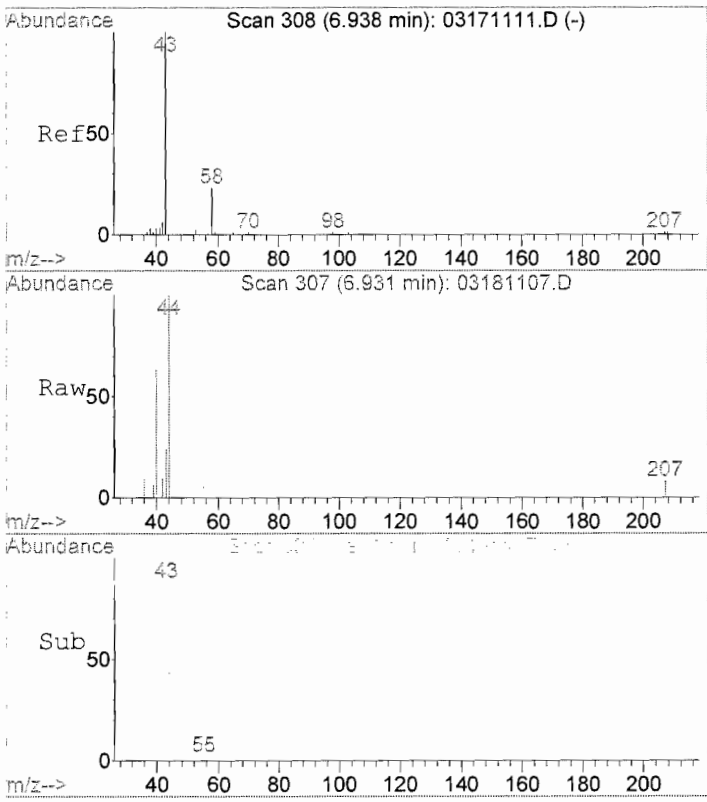


#5
Bromomethane
Concen: 0.28 ug/L
RT: 5.71 min Scan# 162
Delta R.T. -0.07 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion: 94 Resp: 166

Ion	Ratio	Lower	Upper
94	100		
96	84.9	74.0	111.0

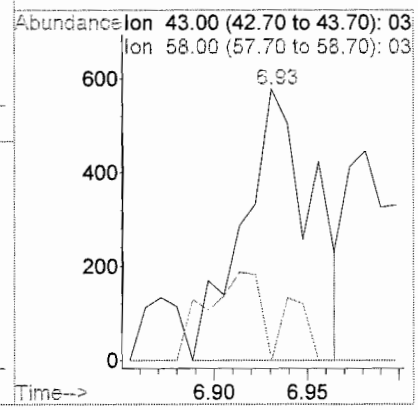


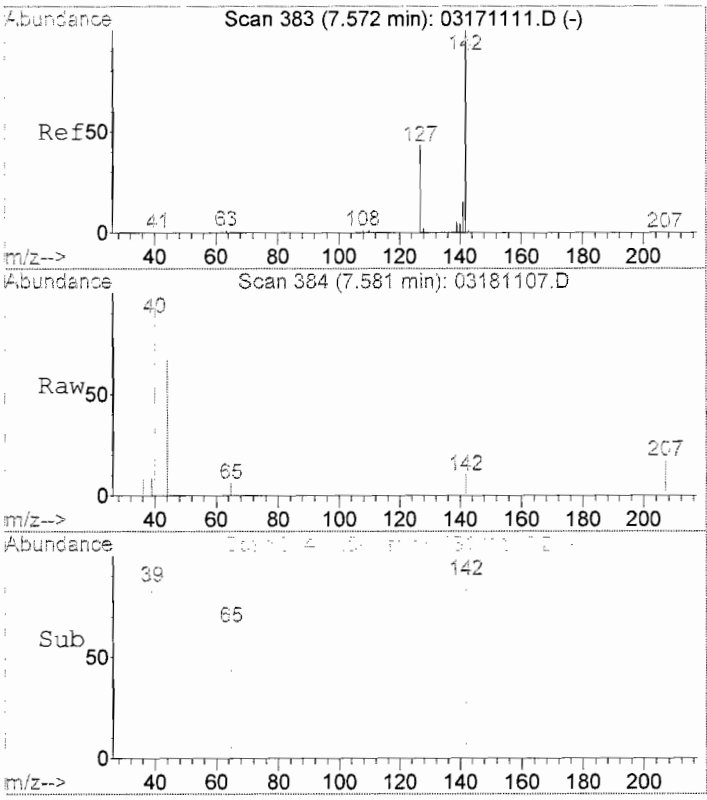


#8
Acetone
Concen: Below Cal
RT: 6.93 min Scan# 307
Delta R.T. -0.01 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion: 43 Resp: 1482

Ion	Ratio	Lower	Upper
43	100		
58	8.7	21.2	31.8#

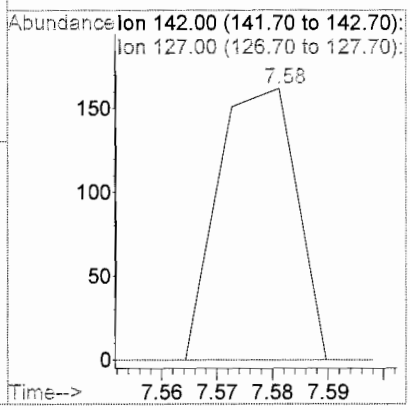


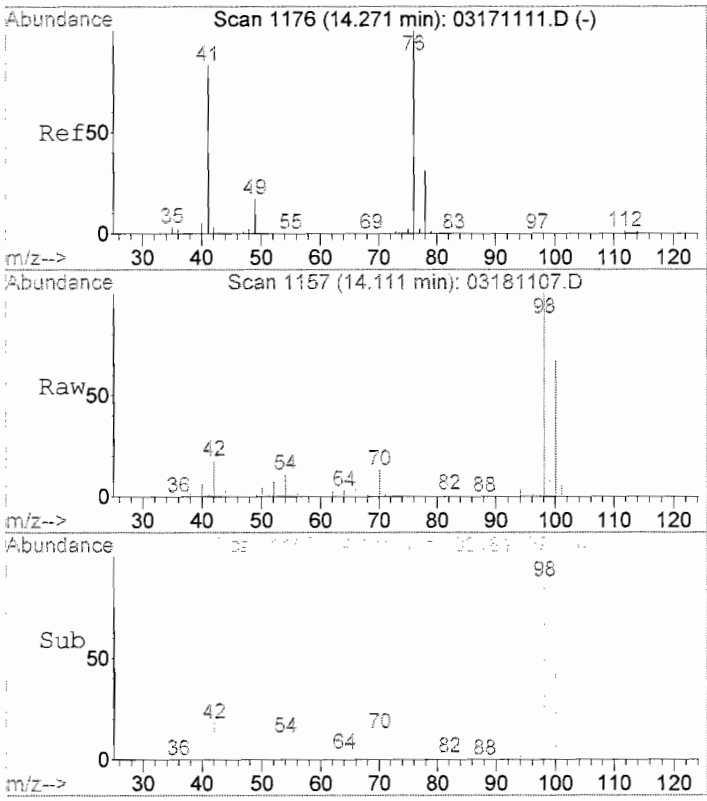


#9
Iodomethane
Concen: 0.17 ug/L
RT: 7.58 min Scan# 384
Delta R.T. 0.01 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:142 Resp: 159

Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.5	53.3#

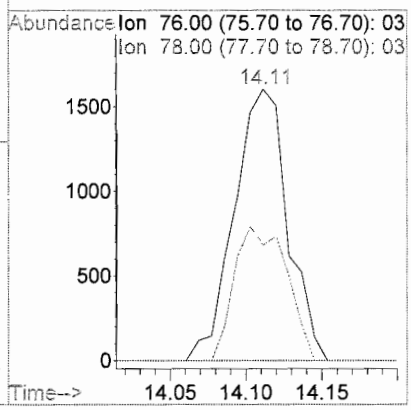


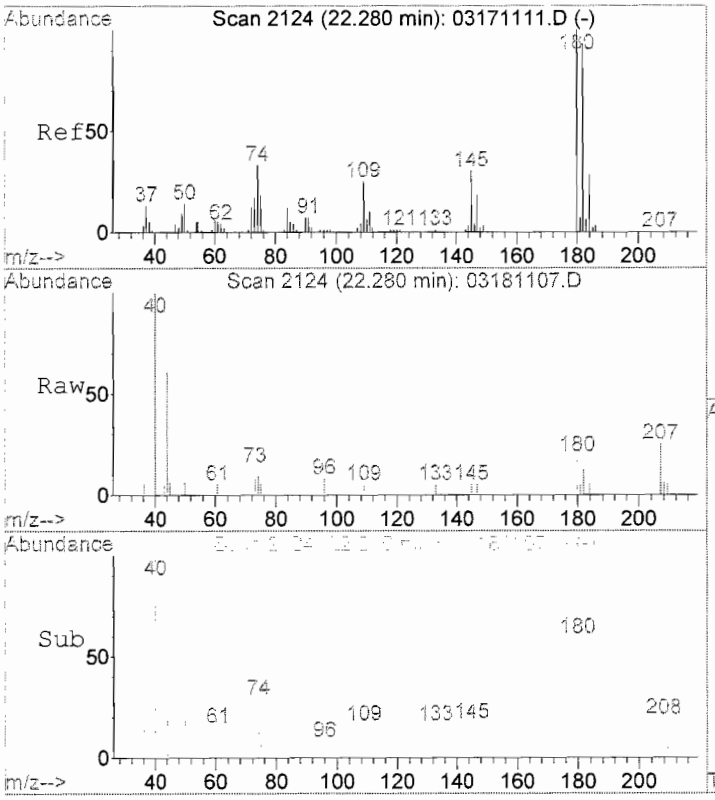


#42
1,3-Dichloropropane
Concen: 0.65 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. -0.16 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion: 76 Resp: 3902

Ion	Ratio	Lower	Upper
76	100		
78	48.5	24.6	37.0#

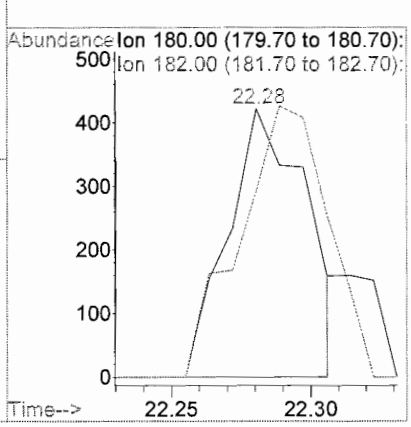


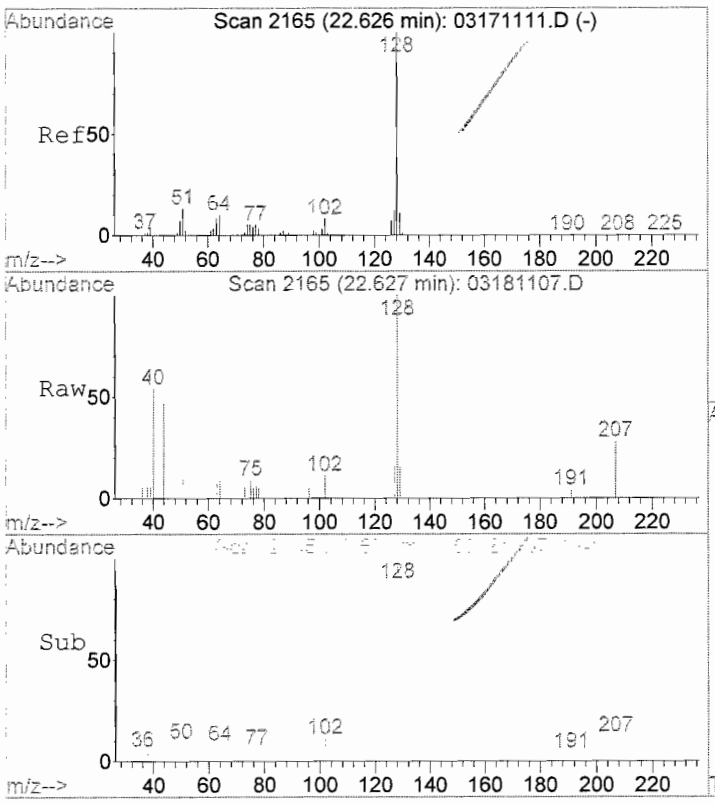


#73
1,2,4-Trichlorobenzene
Concen: 0.17 ug/L
RT: 22.28 min Scan# 2124
Delta R.T. 0.00 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:180 Resp: 828

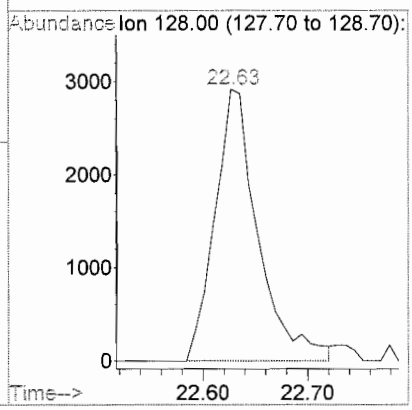
Ion	Ratio	Lower	Upper
180	100		
182	113.4	76.5	114.7

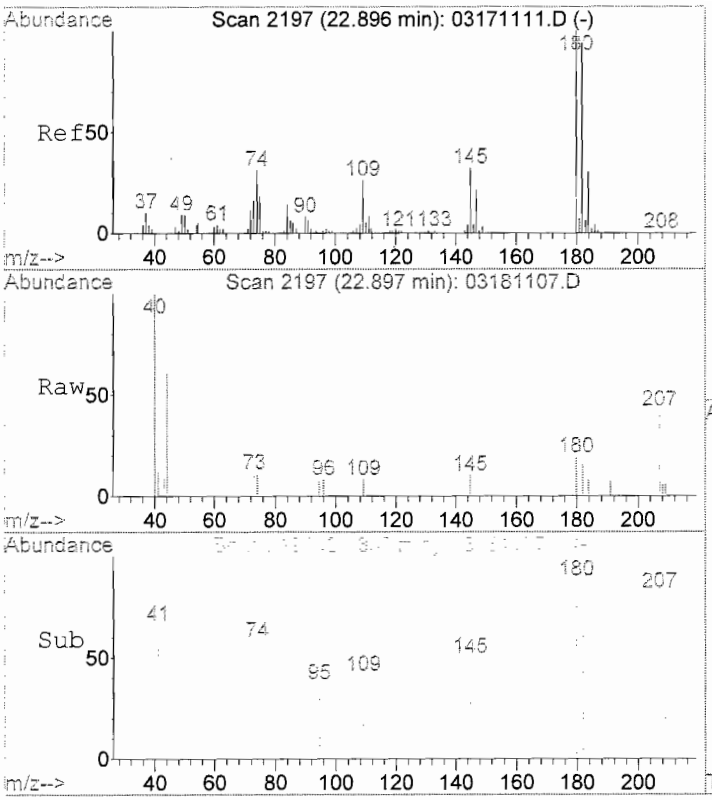




#74
Naphthalene
Concen: 1.30 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:128 Resp: 8346

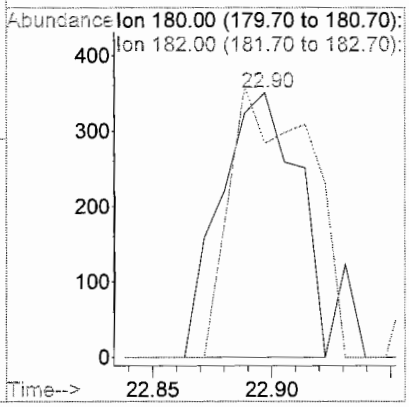




#76
1,2,3-Trichlorobenzene
Concen: 0.20 ug/L
RT: 22.90 min Scan# 2197
Delta R.T. 0.00 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:180 Resp: 793

Ion	Ratio	Lower	Upper
180	100		
182	52.5	76.1	114.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181110.D Vial: 3
Acq On : 18 Mar 2011 12:01 pm Operator: LC
Sample : PUC0827-02 Inst : GCMS7
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	173163	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	306651	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	264627	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	119070	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	96676	22.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.76%	
39) Toluene-d8	14.11	98	343395	22.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.80%	
53) 4-Bromofluorobenzene	17.75	95	123364	21.27 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.08%	

Target Compounds						Qvalue
5) Bromomethane	5.73	94	199	0.29 ug/L	NSM	92
8) Acetone	6.94	43	3295	Below Cal	LRL/NT	93
15) MTBE	8.73	73	847	0.09 ug/L	#	86
21) Chloroform	9.92	83	11200	1.20 ug/L		99
24) 1,2-Dichloroethane	10.59	62	787	0.14 ug/L	#NRT	1
32) Trichloroethene	12.26	95	2110	0.40 ug/L	LRL/NT	96
42) 1,3-Dichloropropane	14.11	76	3460	0.58 ug/L	#NRT	51
43) 2-Hexanone	14.44	43	187	0.09 ug/L	#LRL/NT	29
46) Tetrachloroethene	15.20	166	8950	1.89 ug/L		99

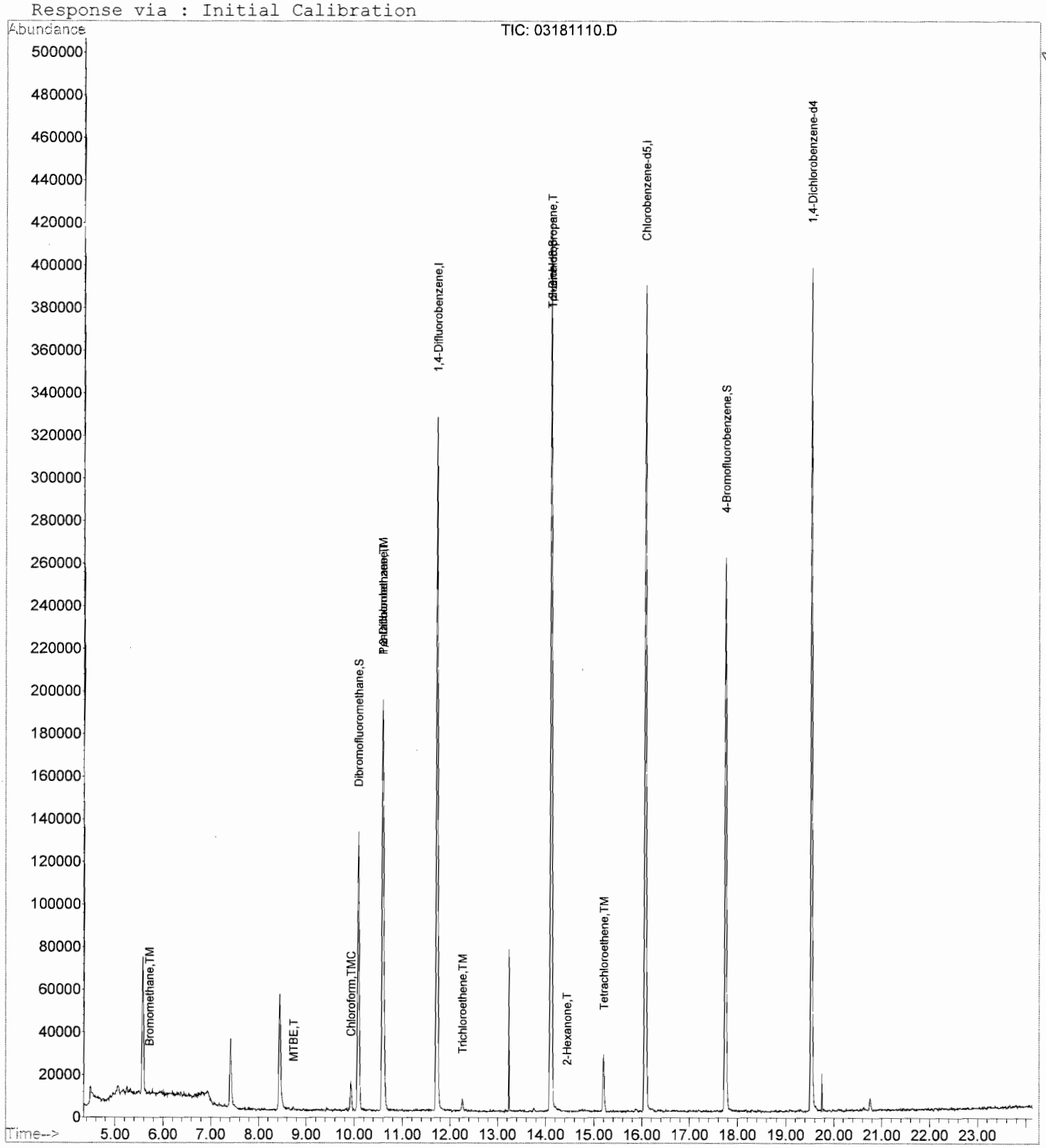
LC 03/21/11

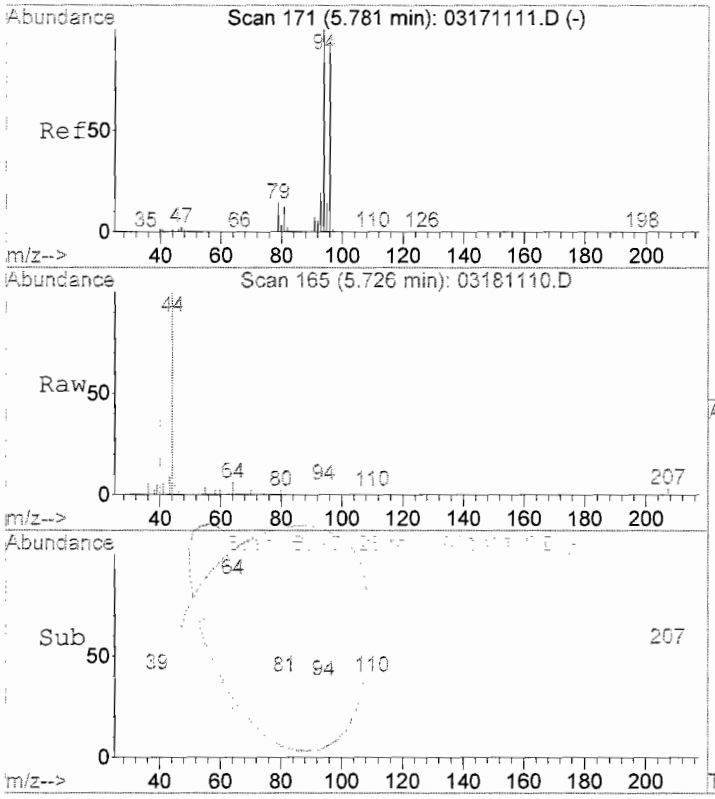
(#) = qualifier out of range (m) = manual integration
03181110.D 031711.M Fri Mar 18 13:00:47 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181110.D Vial: 3
Acq On : 18 Mar 2011 12:01 pm Operator: LC
Sample : PUC0827-02 Inst : GCMS7
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

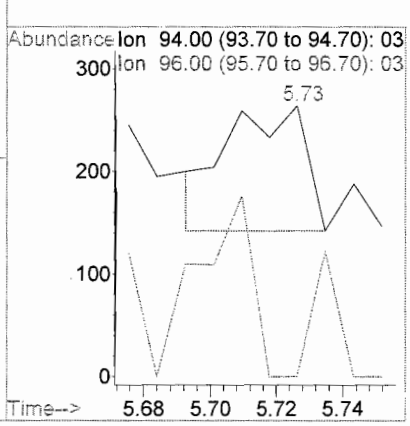


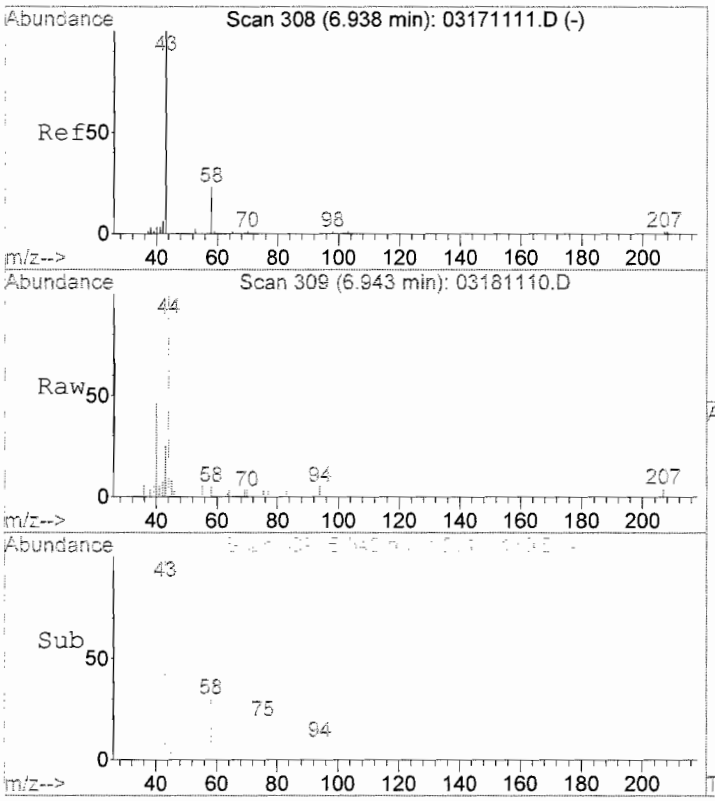


#5
Bromomethane
Concen: 0.29 ug/L
RT: 5.73 min Scan# 165
Delta R.T. -0.05 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 94 Resp: 199

Ion	Ratio	Lower	Upper
94	100		
96	100.5	74.0	111.0

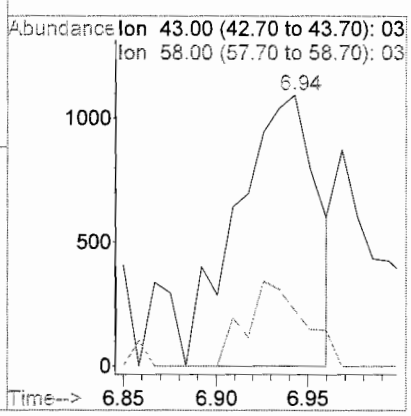


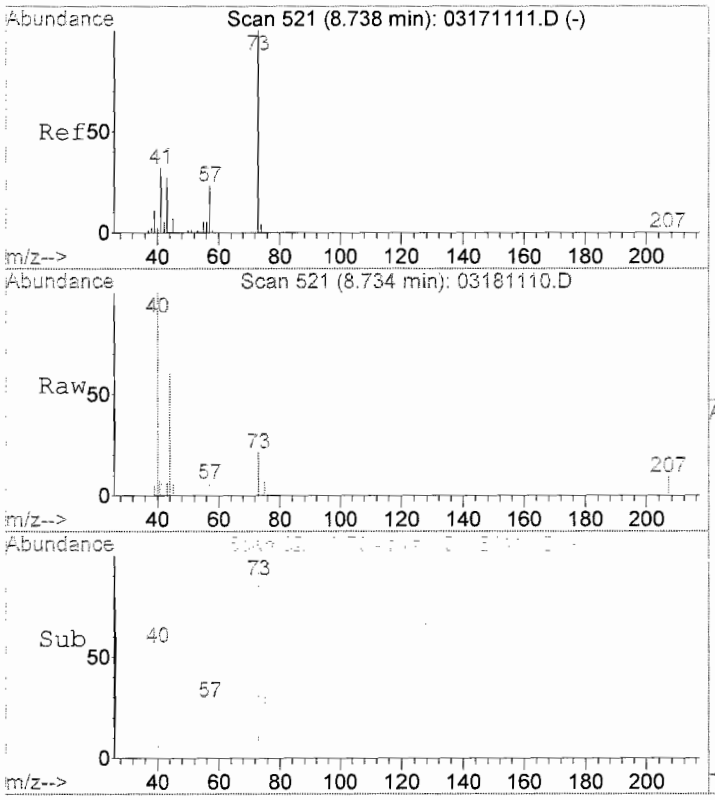


#8
Acetone
Concen: Below Cal
RT: 6.94 min Scan# 309
Delta R.T. 0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 43 Resp: 3295

Ion	Ratio	Lower	Upper
43	100		
58	22.9	21.2	31.8

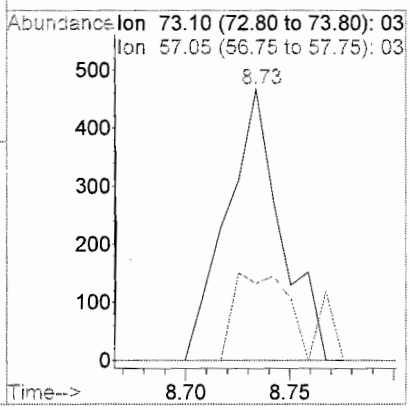


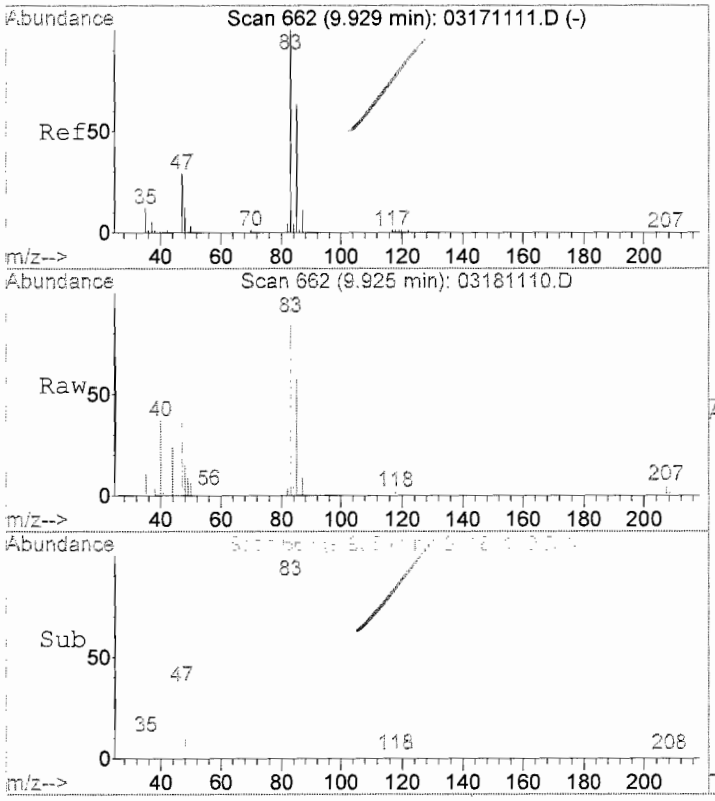


#15
MTBE
Concen: 0.09 ug/L
RT: 8.73 min Scan# 521
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 73 Resp: 847

Ion	Ratio	Lower	Upper
73	100		
57	31.9	20.0	30.0#

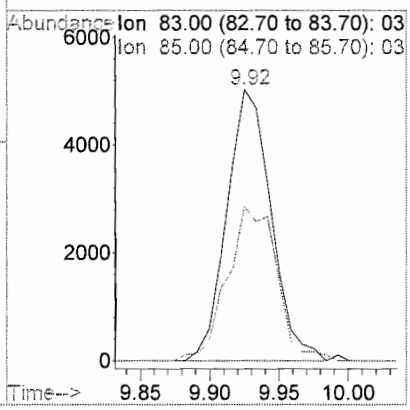


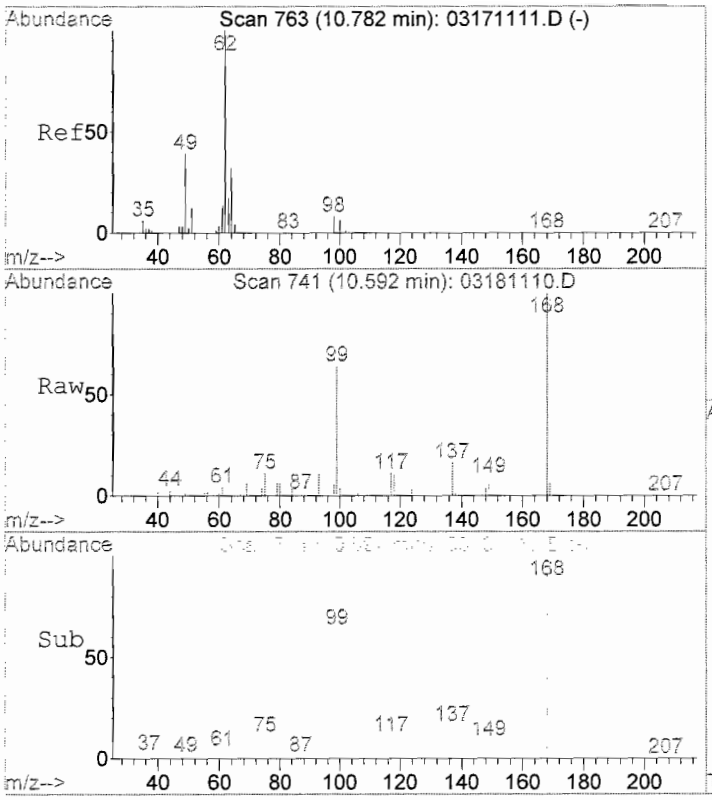


#21
Chloroform
Concen: 1.20 ug/L
RT: 9.92 min Scan# 662
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 83 Resp: 11200

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.6	77.4



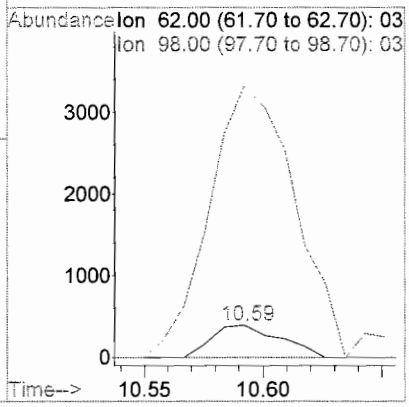


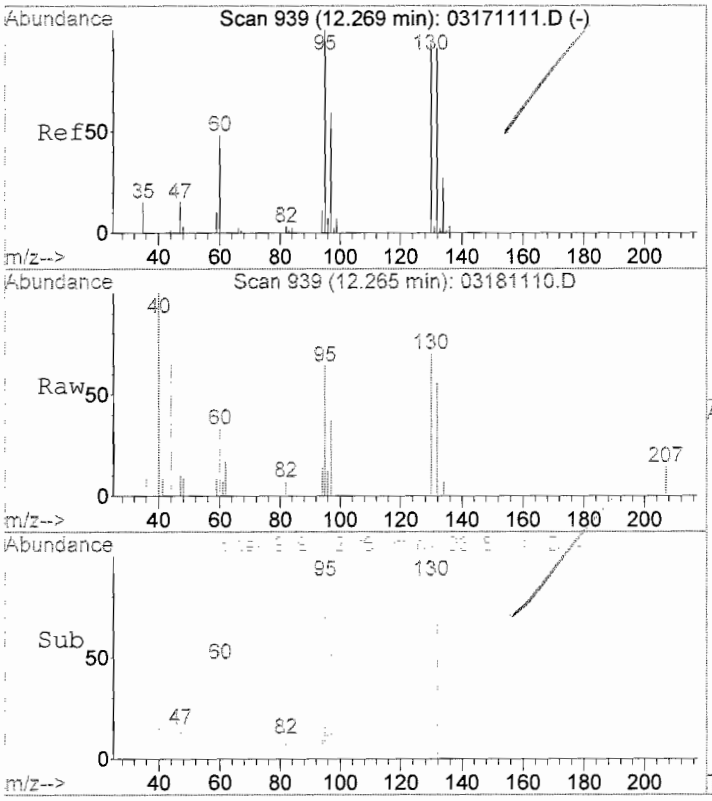
#24
1,2-Dichloroethane
Concen: 0.14 ug/L
RT: 10.59 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 62 Resp: 787

Ion	Ratio	Lower	Upper
62	100		
98	1050.8	7.0	10.6#

WRT

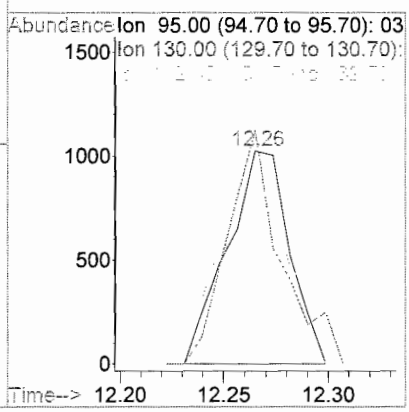


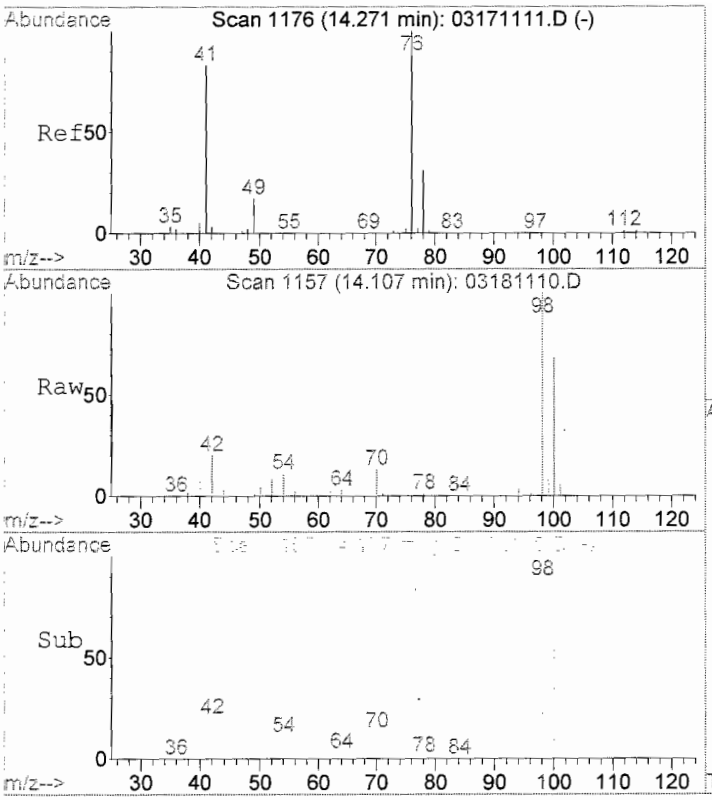


#32
Trichloroethene
Concen: 0.40 ug/L
RT: 12.26 min Scan# 939
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 95 Resp: 2110

Ion	Ratio	Lower	Upper
95	100		
130	94.0	74.2	111.4
132	95.0	70.8	106.2

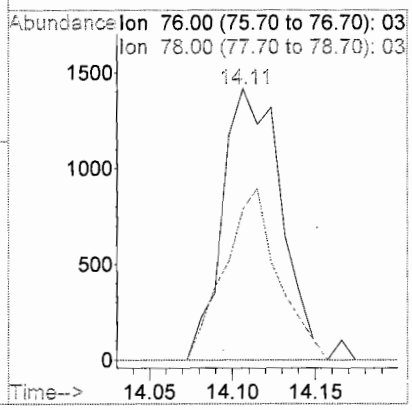


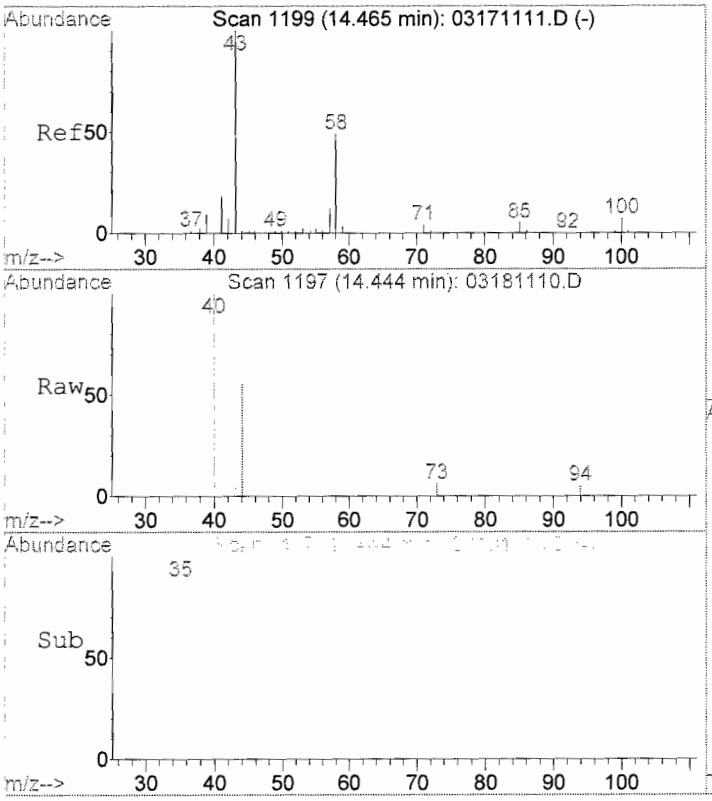


#42
1,3-Dichloropropane
Concen: 0.58 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. -0.16 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 76 Resp: 3460

Ion	Ratio	Lower	Upper
76	100		
78	57.7	24.6	37.0#

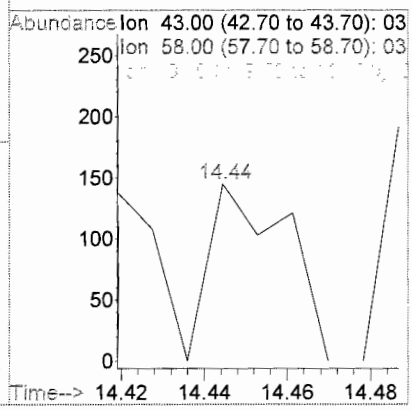


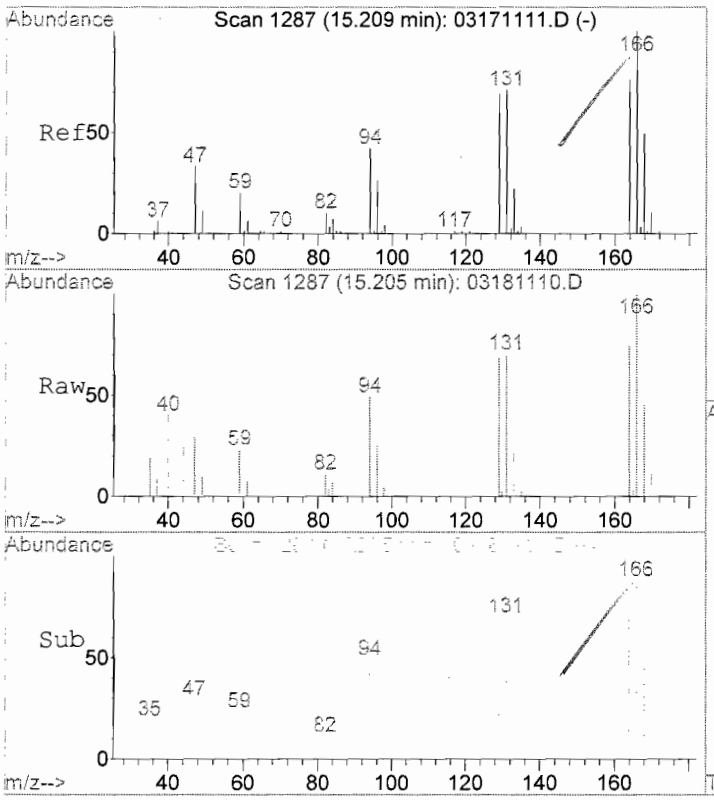


#43
2-Hexanone
Concen: 0.09 ug/L
RT: 14.44 min Scan# 1197
Delta R.T. -0.02 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 43 Resp: 187

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.4#
100	0.0	0.0	0.0

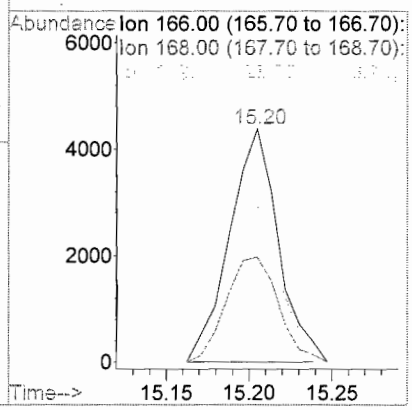




#46
Tetrachloroethene
Concen: 1.89 ug/L
RT: 15.20 min Scan# 1287
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion:166 Resp: 8950

Ion	Ratio	Lower	Upper
166	100		
168	48.3	37.9	56.9
129	75.0	59.8	89.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181111.D Vial: 4
Acq On : 18 Mar 2011 12:32 pm Operator: LC
Sample : -MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	175360	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	309722	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	259868	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	120935	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	97936	22.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.80%	
39) Toluene-d8	14.11	98	340219	21.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 87.12%	
53) 4-Bromofluorobenzene	17.75	95	122265	21.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.88%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	187975	22.69 ug/L	98
3) Chloromethane	4.90	50	301362	22.00 ug/L	98
4) Vinyl chloride	5.18	62	286850	23.52 ug/L	99
5) Bromomethane	5.78	94	139537	22.00 ug/L	98
6) Chloroethane	5.98	64	157362	24.34 ug/L	97
7) Trichlorofluoromethane	6.77	101	229586	27.08 ug/L	99
8) Acetone	6.93	43	31918	31.17 ug/L	96
9) Iodomethane	7.57	142	139617	35.56 ug/L	100
10) 1,1-Dichloroethene	7.51	96	132685	26.83 ug/L	96
11) Methylene chloride	7.70	84	155716	26.76 ug/L	100
12) Freon 113	7.77	101	154689	26.42 ug/L	99
13) Carbon disulfide	8.02	76	536186	30.47 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	122531	22.39 ug/L	96
15) MTBE	8.73	73	208246	22.27 ug/L	99
16) 1,1-Dichloroethane	8.92	63	250145	21.91 ug/L	99
17) Vinyl acetate	9.08	43	248788	28.06 ug/L	100
18) 2-Butanone (MEK)	9.47	72	7031	25.64 ug/L	62
19) cis-1,2-Dichloroethene	9.66	96	122924	21.69 ug/L	99
20) Bromochloromethane	9.87	128	46868	22.60 ug/L	98
21) Chloroform	9.93	83	216682	23.00 ug/L	99
22) 2,2-Dichloropropane	10.03	77	168655	22.08 ug/L	99
24) 1,2-Dichloroethane	10.78	62	131737	22.92 ug/L	98
25) 1,1,1-Trichloroethane	10.90	97	153677	22.72 ug/L	98
27) 1,1-Dichloropropene	11.15	75	178152	22.47 ug/L	99
28) Carbon tetrachloride	11.39	117	125329	22.90 ug/L	99
29) Benzene	11.44	78	457253	21.57 ug/L	99
30) Dibromomethane	12.16	93	58309	23.25 ug/L	99
31) 1,2-Dichloropropane	12.21	63	134198	22.67 ug/L	99
32) Trichloroethene	12.26	95	116844	22.04 ug/L	99
33) Bromodichloromethane	12.32	83	139583	22.43 ug/L	98
34) 2-Chlorovinylethylether	13.16	63	909	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	170102	22.52 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	77496	25.05 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	143203	24.57 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	63997	22.83 ug/L	99
40) Toluene	14.21	92	259965	21.57 ug/L	100
42) 1,3-Dichloropropane	14.27	76	134444	22.86 ug/L	97

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

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181111.D Vial: 4
Acq On : 18 Mar 2011 12:32 pm Operator: LC
Sample : -MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

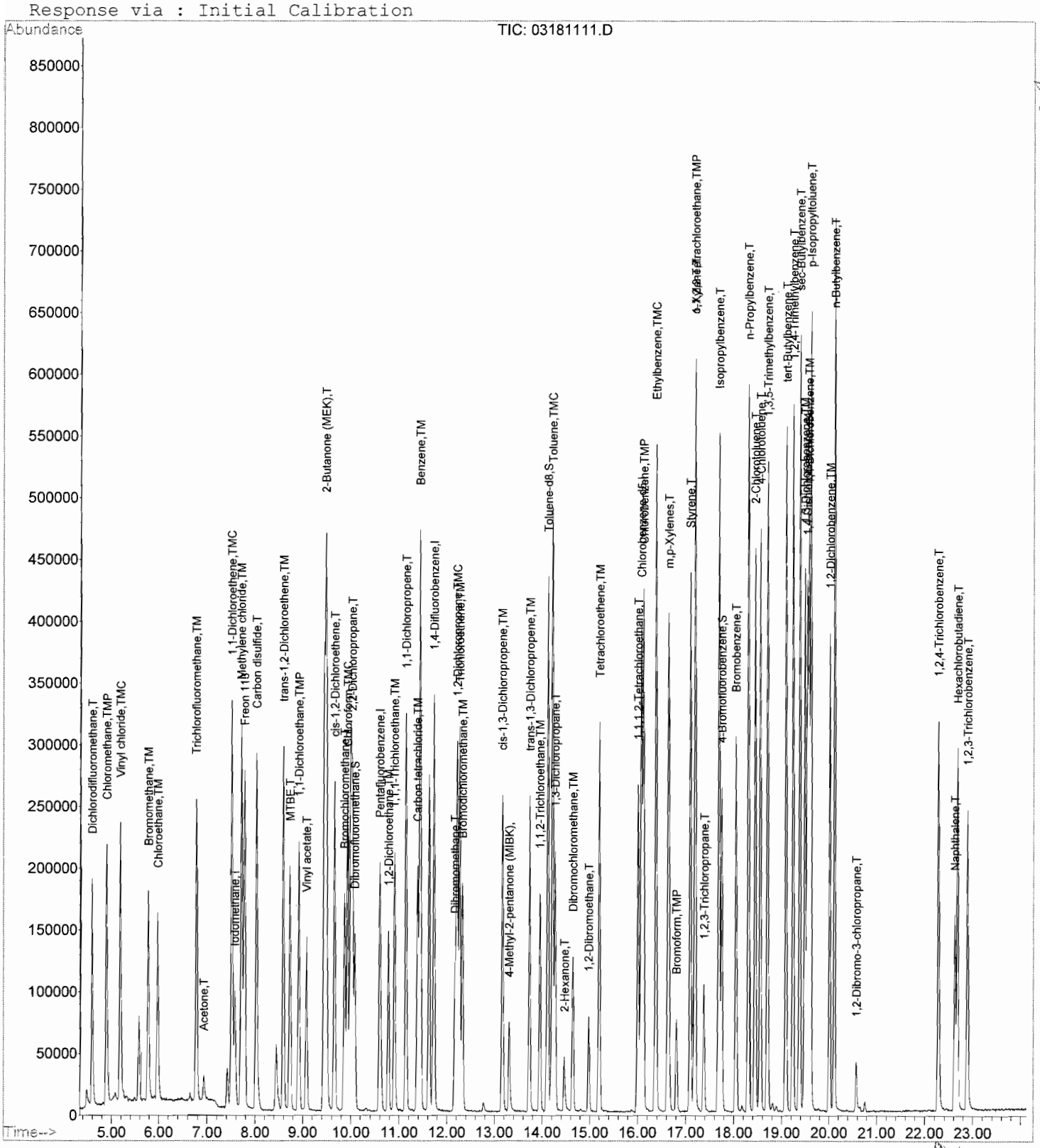
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.47	43	50509	25.76 ug/L #	93
44)	Dibromochloromethane	14.65	129	80218	22.69 ug/L	99
45)	1,2-Dibromoethane	14.98	107	69348	23.49 ug/L	98
46)	Tetrachloroethene	15.20	166	111131	23.84 ug/L	99
47)	1,1,1,2-Tetrachloroethane	16.01	131	84525	21.96 ug/L	99
48)	Chlorobenzene	16.12	112	265370	21.73 ug/L	99
49)	Ethylbenzene	16.38	91	501400	21.79 ug/L	99
50)	m,p-Xylenes	16.64	106	175688	21.80 ug/L	100
51)	Styrene	17.09	104	261644	21.41 ug/L	100
52)	o-Xylene	17.19	106	168774	21.54 ug/L	98
55)	Bromoform	16.81	173	41647	23.78 ug/L	96
56)	1,1,2,2-Tetrachloroethane	17.18	83	84105	23.75 ug/L	97
57)	1,2,3-Trichloropropane	17.38	110	17541	22.77 ug/L	92
58)	Isopropylbenzene	17.69	105	460294	24.86 ug/L	100
59)	Bromobenzene	18.05	156	97907	22.92 ug/L	98
60)	n-Propylbenzene	18.30	91	615806	23.29 ug/L	99
61)	2-Chlorotoluene	18.44	91	335850	21.68 ug/L	99
62)	4-Chlorotoluene	18.55	91	346950	22.60 ug/L	98
63)	1,3,5-Trimethylbenzene	18.70	105	365742	22.86 ug/L	99
64)	tert-Butylbenzene	19.09	119	308158	22.62 ug/L	99
65)	1,2,4-Trimethylbenzene	19.23	105	375578	23.35 ug/L	99
66)	sec-Butylbenzene	19.38	105	527950	22.61 ug/L	99
67)	1,3-Dichlorobenzene	19.48	146	198093	22.75 ug/L	99
68)	1,4-Dichlorobenzene	19.56	146	197959	22.59 ug/L	99
69)	p-Isopropyltoluene	19.61	119	416242	23.32 ug/L	99
70)	1,2-Dichlorobenzene	20.01	146	172866	22.83 ug/L	99
71)	n-Butylbenzene	20.11	91	466267	23.47 ug/L	100
72)	1,2-Dibromo-3-chloropropan	20.58	157	10925	23.15 ug/L	90
73)	1,2,4-Trichlorobenzene	22.28	180	124221	25.40 ug/L	97
74)	Naphthalene	22.62	128	153258	23.63 ug/L	100
75)	Hexachlorobutadiene	22.68	225	74012	23.70 ug/L	98
76)	1,2,3-Trichlorobenzene	22.89	180	100939	25.32 ug/L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181111.D Vial: 4
Acq On : 18 Mar 2011 12:32 pm Operator: LC
Sample : -MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181112.D Vial: 5
Acq On : 18 Mar 2011 1:03 pm Operator: LC
Sample : -MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:29 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

4/21/12

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	179999	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	308727	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	259846	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	122755	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	98275	21.70 ug/L	0.00
Spiked Amount 25.000			Recovery = 86.80%		
39) Toluene-d8	14.12	98	339563	21.81 ug/L	0.00
Spiked Amount 25.000			Recovery = 87.24%		
53) 4-Bromofluorobenzene	17.75	95	123469	21.68 ug/L	0.00
Spiked Amount 25.000			Recovery = 86.72%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	189026	22.23 ug/L	98
3) Chloromethane	4.89	50	280199	19.93 ug/L	100
4) Vinyl chloride	5.18	62	290234	23.19 ug/L	99
5) Bromomethane	5.78	94	142471	21.89 ug/L	98
6) Chloroethane	5.98	64	148632	22.40 ug/L	98
7) Trichlorofluoromethane	6.78	101	223545	25.68 ug/L	99
8) Acetone	6.93	43	28585	26.69 ug/L	100
9) Iodomethane	7.57	142	116576	28.95 ug/L	98
10) 1,1-Dichloroethene	7.51	96	108745	21.42 ug/L	98
11) Methylene chloride	7.71	84	127291	21.31 ug/L	98
12) Freon 113	7.77	101	122604	20.40 ug/L	97
13) Carbon disulfide	8.03	76	455298	25.21 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	123701	22.02 ug/L	95
15) MTBE	8.74	73	207884	21.66 ug/L	99
16) 1,1-Dichloroethane	8.92	63	251313	21.45 ug/L	99
17) Vinyl acetate	9.07	43	239938	26.36 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6935	24.67 ug/L	70
19) cis-1,2-Dichloroethene	9.66	96	119845	20.60 ug/L	99
20) Bromochloromethane	9.87	128	46876	22.02 ug/L	97
21) Chloroform	9.93	83	219139	22.66 ug/L	98
22) 2,2-Dichloropropane	10.04	77	169285	21.59 ug/L	99
24) 1,2-Dichloroethane	10.78	62	129227	21.90 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	154978	22.32 ug/L	99
27) 1,1-Dichloropropene	11.14	75	178745	22.62 ug/L	99
28) Carbon tetrachloride	11.39	117	127059	23.29 ug/L	100
29) Benzene	11.44	78	457901	21.67 ug/L	98
30) Dibromomethane	12.17	93	57214	22.89 ug/L	97
31) 1,2-Dichloropropane	12.21	63	133921	22.69 ug/L	99
32) Trichloroethene	12.27	95	119509	22.62 ug/L	99
33) Bromodichloromethane	12.33	83	140177	22.60 ug/L	100
34) 2-Chlorovinylethylether	13.16	63	725	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	172442	22.90 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	75831	24.59 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	138227	23.79 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	63003	22.55 ug/L	98
40) Toluene	14.21	92	266163	22.16 ug/L	98
42) 1,3-Dichloropropane	14.27	76	131001	22.28 ug/L	95

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

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181112.D Vial: 5
Acq On : 18 Mar 2011 1:03 pm Operator: LC
Sample : -MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:29 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

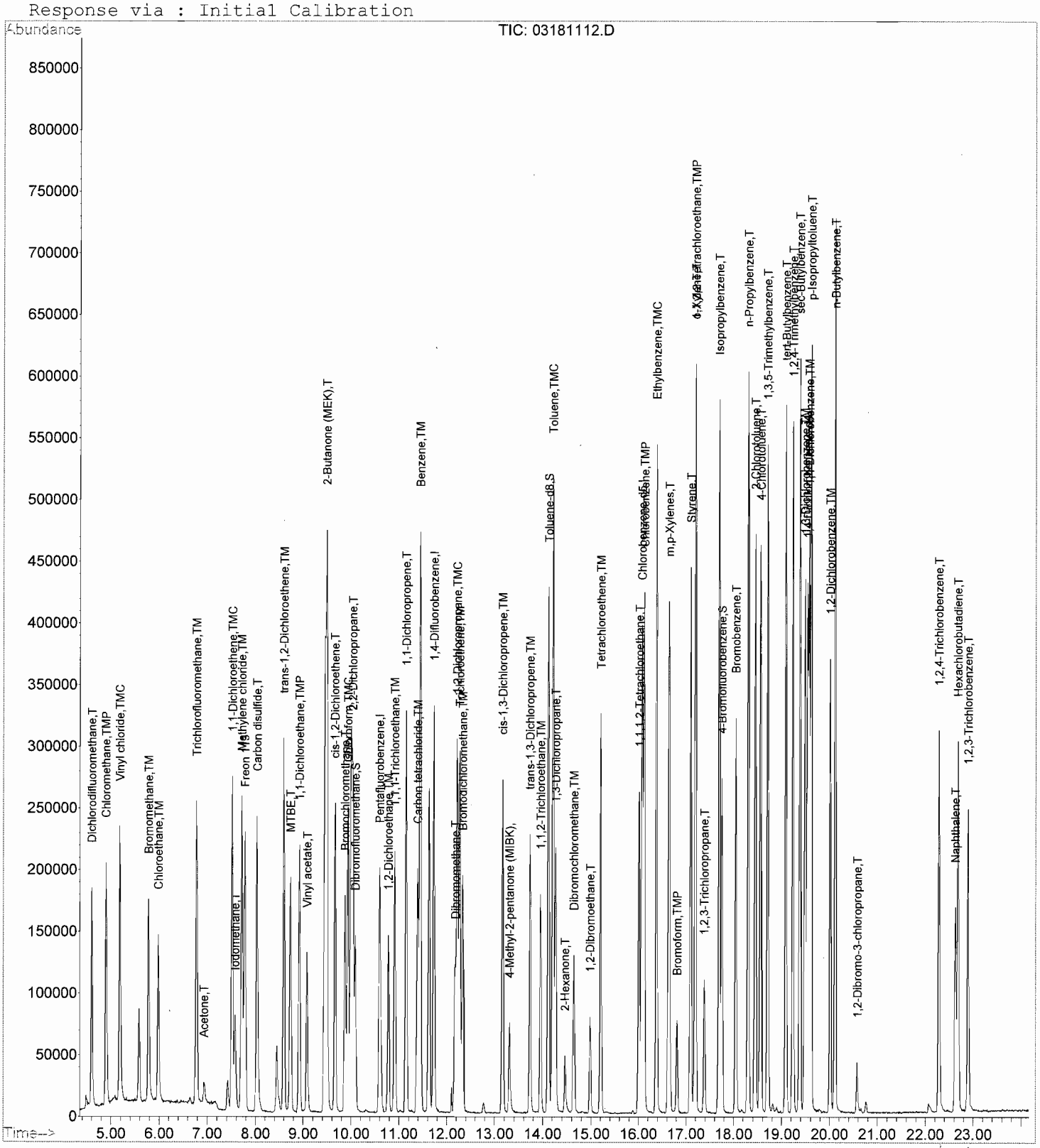
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Hexanone	14.46	43	49246	25.12 ug/L #	98
44)	Dibromochloromethane	14.64	129	79561	22.50 ug/L	96
45)	1,2-Dibromoethane	14.98	107	67250	22.78 ug/L	99
46)	Tetrachloroethene	15.20	166	112766	24.20 ug/L	100
47)	1,1,1,2-Tetrachloroethane	16.01	131	86251	22.41 ug/L	98
48)	Chlorobenzene	16.12	112	270123	22.12 ug/L	99
49)	Ethylbenzene	16.37	91	506089	22.00 ug/L	100
50)	m,p-Xylenes	16.63	106	177078	21.97 ug/L	100
51)	Styrene	17.09	104	261153	21.37 ug/L	98
52)	o-Xylene	17.19	106	168504	21.51 ug/L	100
55)	Bromoform	16.81	173	42168	23.72 ug/L	97
56)	1,1,2,2-Tetrachloroethane	17.18	83	84237	23.44 ug/L	99
57)	1,2,3-Trichloropropane	17.38	110	18780	24.02 ug/L	98
58)	Isopropylbenzene	17.69	105	469842	25.00 ug/L	99
59)	Bromobenzene	18.05	156	99366	22.91 ug/L	97
60)	n-Propylbenzene	18.30	91	628253	23.41 ug/L	99
61)	2-Chlorotoluene	18.44	91	345734	21.99 ug/L	100
62)	4-Chlorotoluene	18.55	91	355752	22.83 ug/L	99
63)	1,3,5-Trimethylbenzene	18.70	105	370004	22.78 ug/L	98
64)	tert-Butylbenzene	19.08	119	312483	22.60 ug/L	100
65)	1,2,4-Trimethylbenzene	19.24	105	379550	23.25 ug/L	99
66)	sec-Butylbenzene	19.38	105	534380	22.55 ug/L	100
67)	1,3-Dichlorobenzene	19.48	146	198554	22.47 ug/L	99
68)	1,4-Dichlorobenzene	19.57	146	199248	22.40 ug/L	99
69)	p-Isopropyltoluene	19.61	119	416861	23.01 ug/L	100
70)	1,2-Dichlorobenzene	20.01	146	171131	22.27 ug/L	99
71)	n-Butylbenzene	20.12	91	471564	23.39 ug/L	100
72)	1,2-Dibromo-3-chloropropan	20.58	157	11516	24.04 ug/L	96
73)	1,2,4-Trichlorobenzene	22.29	180	123413	24.86 ug/L	100
74)	Naphthalene	22.62	128	162045	24.62 ug/L	100
75)	Hexachlorobutadiene	22.68	225	74980	23.65 ug/L	98
76)	1,2,3-Trichlorobenzene	22.89	180	100253	24.77 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181112.D Vial: 5
Acq On : 18 Mar 2011 1:03 pm Operator: LC
Sample : -MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:29 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181122.D Vial: 16
Acq On : 18 Mar 2011 6:11 pm Operator: LC
Sample : PUC0730-01RE1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 21 6:51 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	174868	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	304156	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	255975	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115554	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	96164	21.85 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.40%	
39) Toluene-d8	14.12	98	334861	21.83 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.32%	
53) 4-Bromofluorobenzene	17.75	95	116760	20.81 ug/L	0.00
Spiked Amount 25.000			Recovery =	83.24%	

Target Compounds					Qvalue
5) Bromomethane	5.80	94	852	0.39 ug/L #report	3
7) Trichlorofluoromethane	6.79	101	1246	0.15 ug/L	94
8) Acetone	6.96	43	1424	Below Cal #	48
19) cis-1,2-Dichloroethene	9.68	96	4960	0.88 ug/L	99
21) Chloroform	9.94	83	5077	0.54 ug/L	95
32) Trichloroethene	12.28	95	30972	5.95 ug/L	99
42) 1,3-Dichloropropane	14.12	76	3328	0.57 ug/L #wr2	73
46) Tetrachloroethene	15.22	166	1706	0.37 ug/L #report	88

Possible carryover in original.

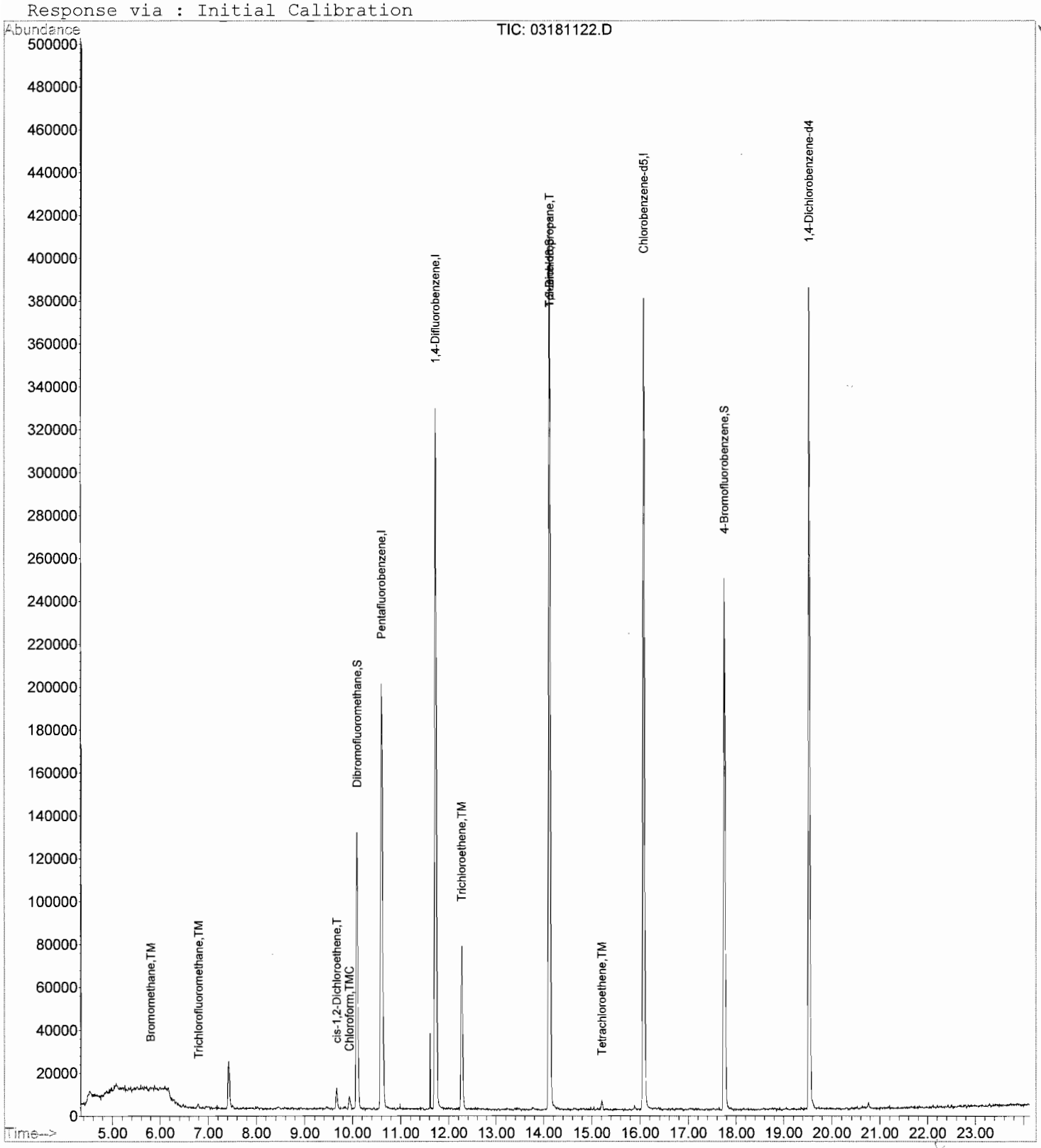
LC 03/21/11

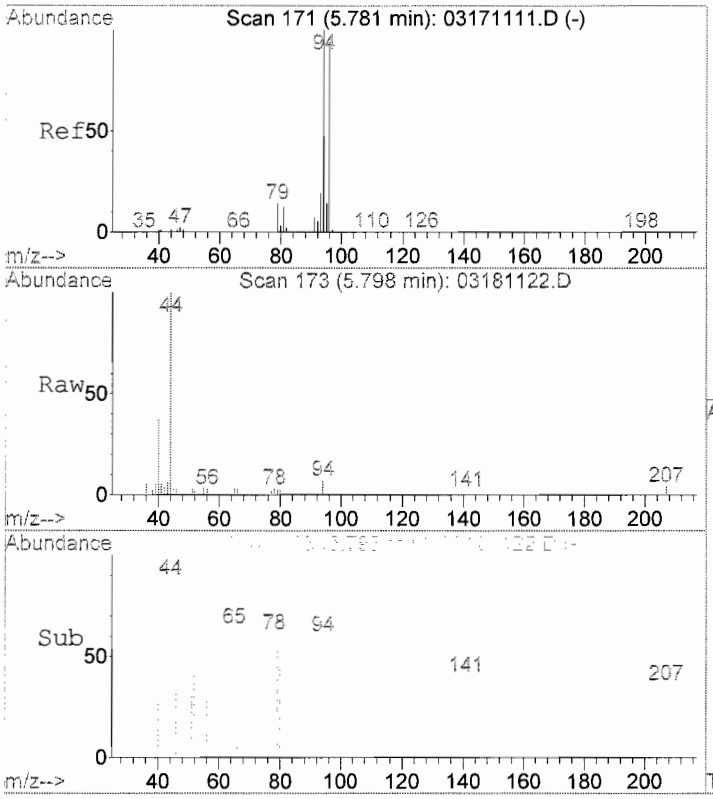
(#) = qualifier out of range (m) = manual integration
03181122.D 031711.M Mon Mar 21 06:51:49 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181122.D Vial: 16
Acq On : 18 Mar 2011 6:11 pm Operator: LC
Sample : PUC0730-01RE1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 21 6:51 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

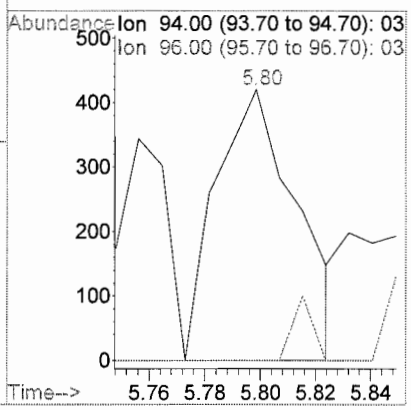


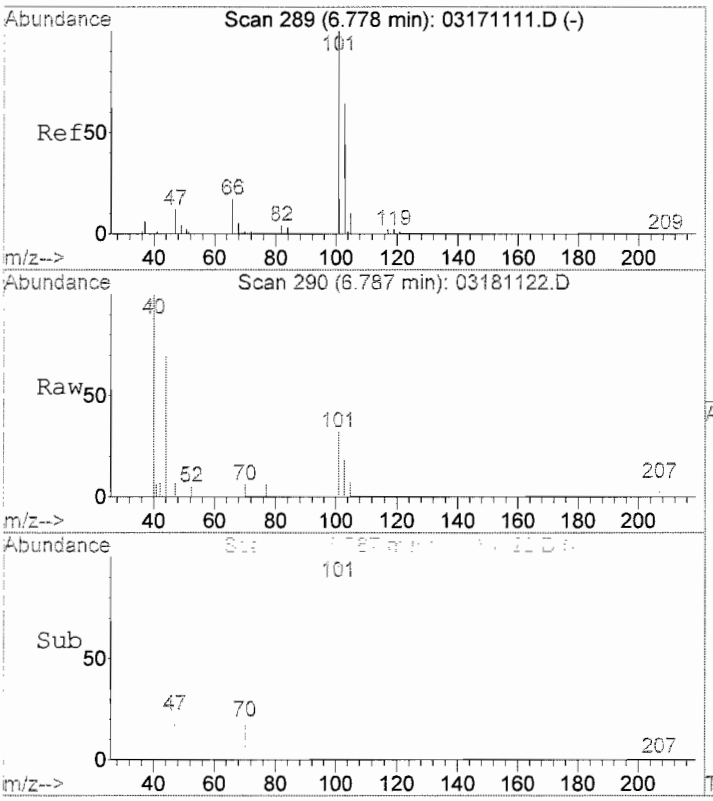


#5
Bromomethane
Concen: 0.39 ug/L
RT: 5.80 min Scan# 173
Delta R.T. 0.02 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion: 94 Resp: 852

Ion	Ratio	Lower	Upper
94	100		
96	0.0	74.0	111.0#

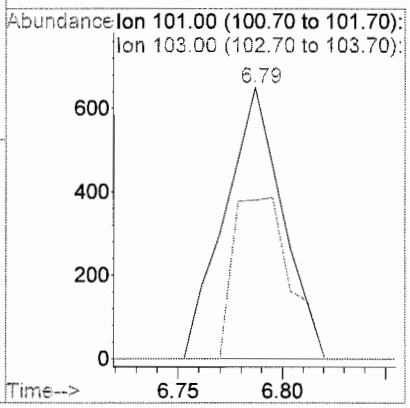


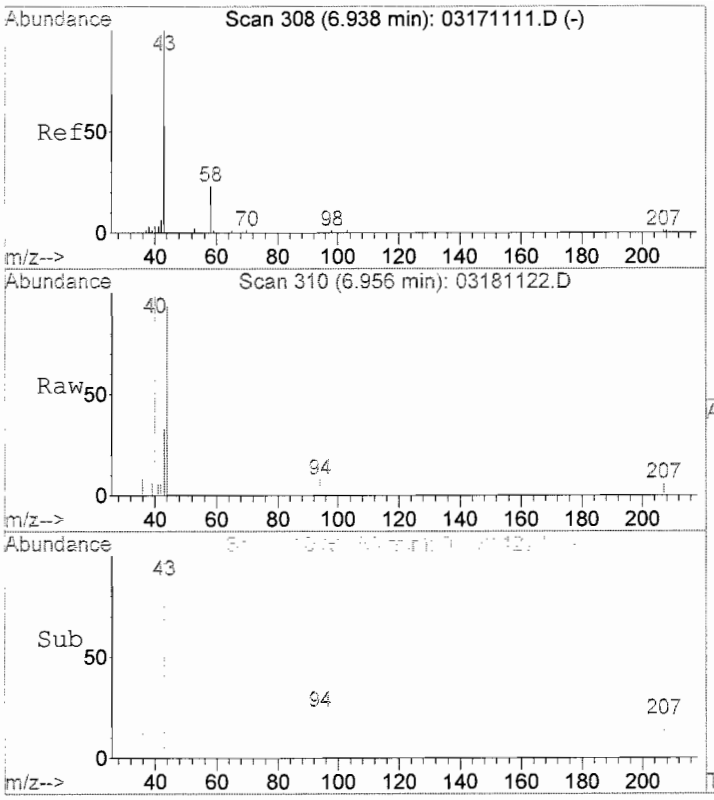


#7
Trichlorofluoromethane
Concen: 0.15 ug/L
RT: 6.79 min Scan# 290
Delta R.T. 0.01 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion:101 Resp: 1246

Ion	Ratio	Lower	Upper
101	100		
103	58.7	50.7	76.1

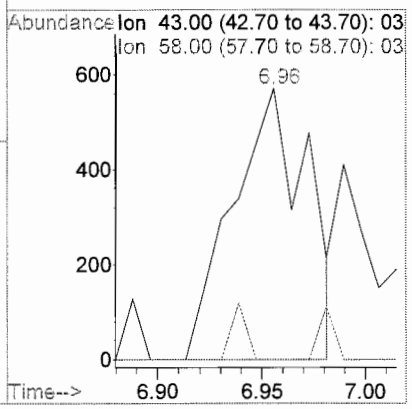


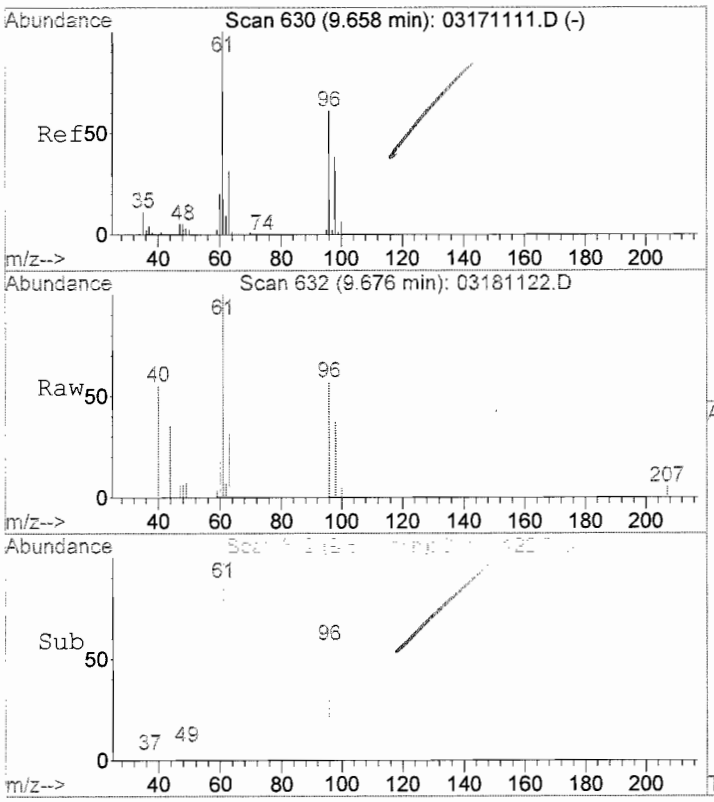


#8
Acetone
Concen: Below Cal
RT: 6.96 min Scan# 310
Delta R.T. 0.02 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion: 43 Resp: 1424

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.2	31.8#

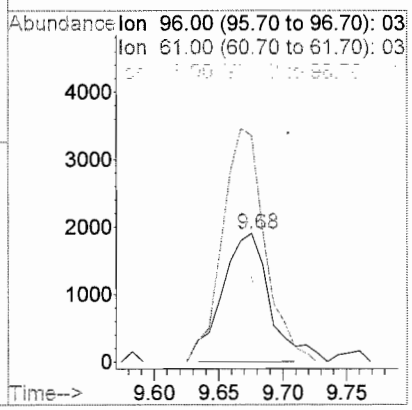


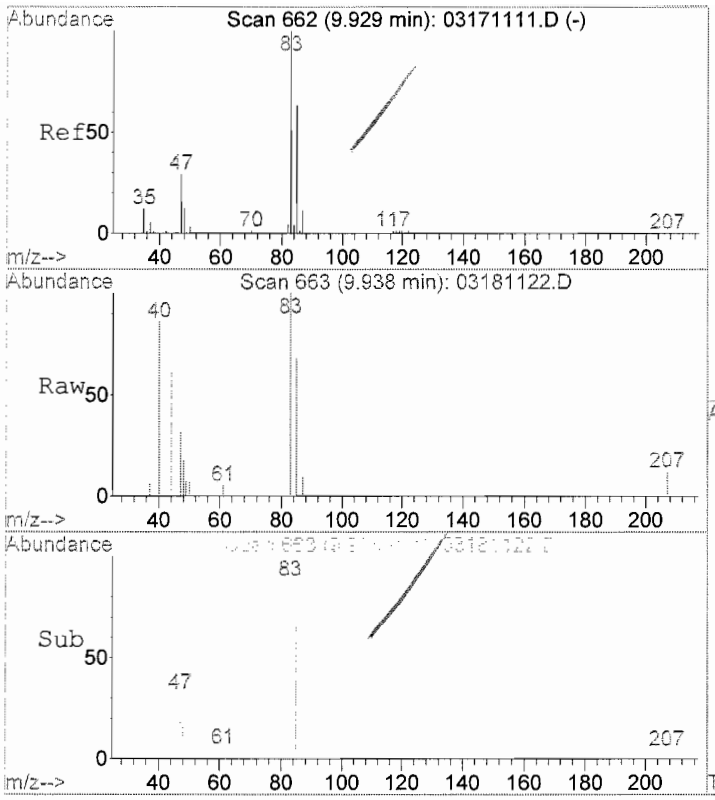


#19
cis-1,2-Dichloroethene
Concen: 0.88 ug/L
RT: 9.68 min Scan# 632
Delta R.T. 0.02 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion: 96 Resp: 4960

Ion	Ratio	Lower	Upper
96	100		
61	161.0	128.5	192.7
98	60.4	49.9	74.9

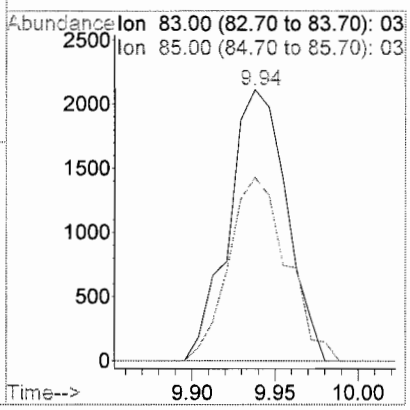


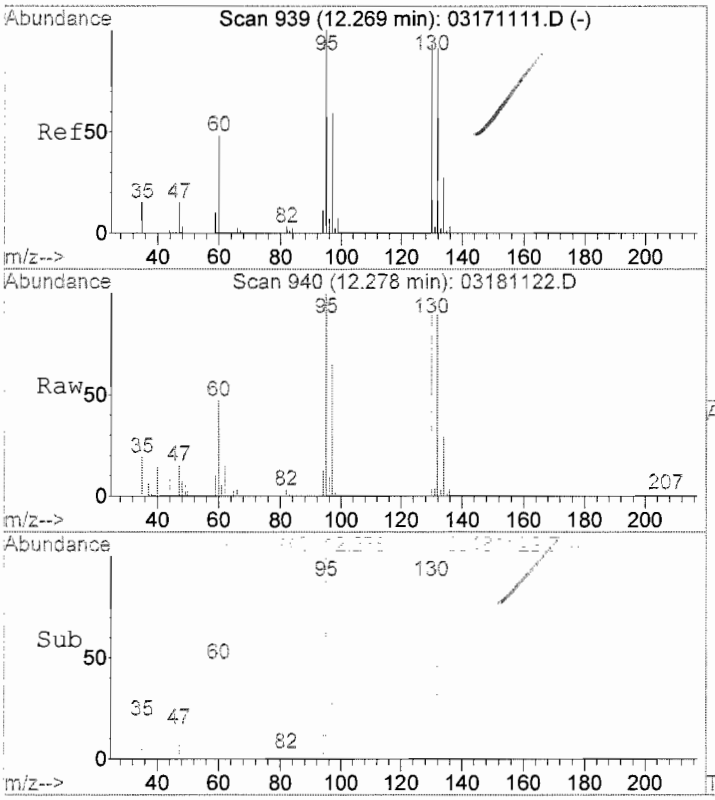


#21
Chloroform
Concen: 0.54 ug/L
RT: 9.94 min Scan# 663
Delta R.T. 0.01 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion: 83 Resp: 5077

Ion	Ratio	Lower	Upper
83	100		
85	68.5	51.6	77.4

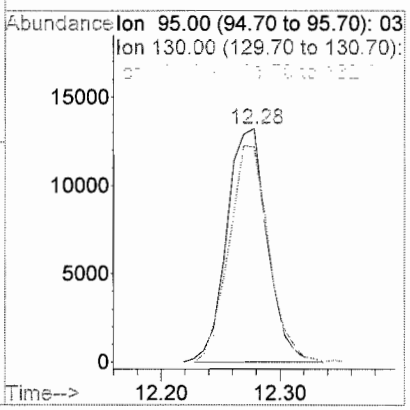


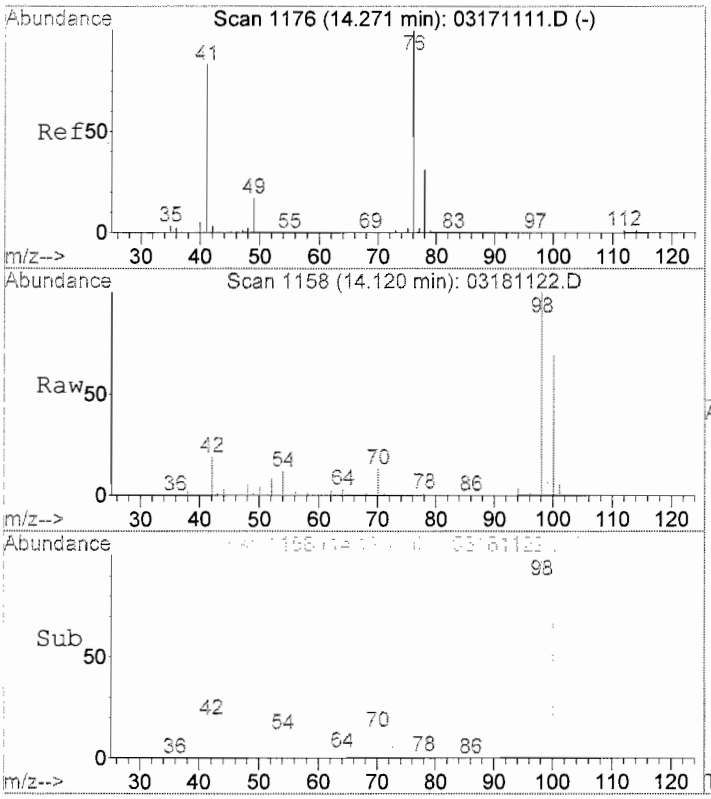


#32
Trichloroethene
Concen: 5.95 ug/L
RT: 12.28 min Scan# 940
Delta R.T. 0.01 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion: 95 Resp: 30972

Ion	Ratio	Lower	Upper
95	100		
130	92.1	74.2	111.4
132	88.1	70.8	106.2

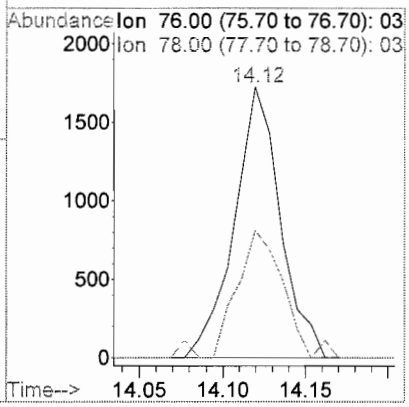


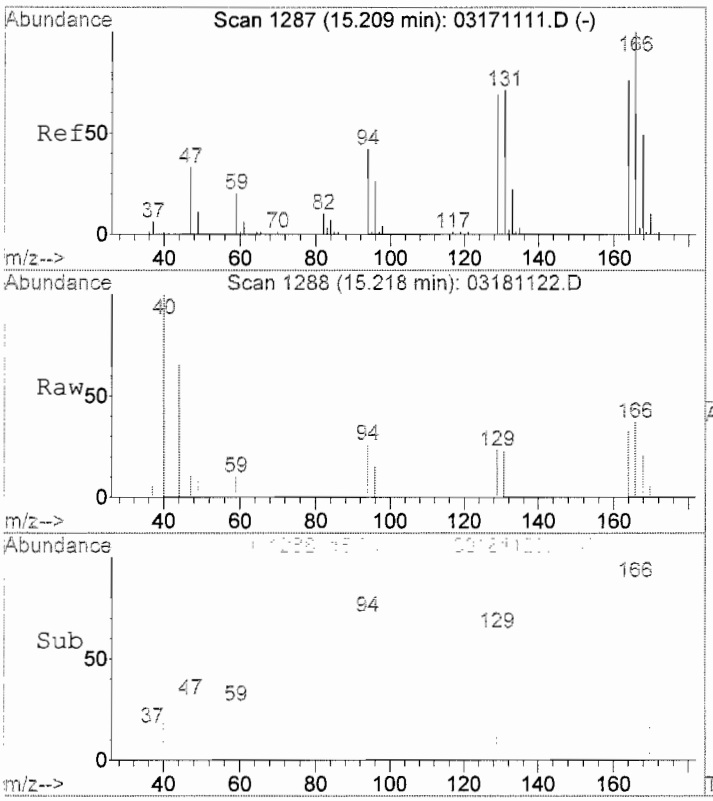


#42
1,3-Dichloropropane
Concen: 0.57 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.15 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion: 76 Resp: 3328

Ion	Ratio	Lower	Upper
76	100		
78	45.8	24.6	37.0#

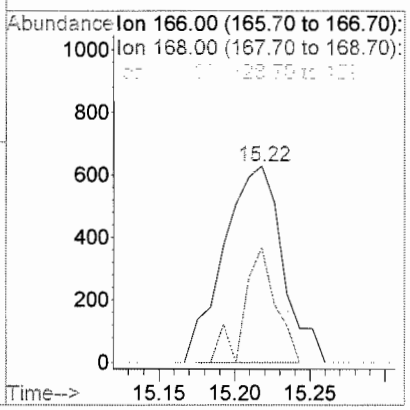




#46
Tetrachloroethene
Concen: 0.37 ug/L
RT: 15.22 min Scan# 1288
Delta R.T. 0.01 min
Lab File: 03181122.D
Acq: 18 Mar 2011 6:11 pm

Tgt Ion:166 Resp: 1706

Ion	Ratio	Lower	Upper
166	100		
168	27.8	37.9	56.9#
129	74.0	59.8	89.8



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DIGESTION and/or EXTRACTION

METHOD: EPA 3520C

Work Order:

PUC0730-01

PREPARATION BENCH SHEET

11C0526

TestAmerica Phoenix

Printed: 3/21/2011 1:01:35PM

Matrix: Water **Prepared using: N_GCMS Semivolatiles - N_EPA 3520C** **Surrogate used: PU01147**

Lab Number	C	Analysis	Prepared	Initial (ml)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
11C0526-BLK1		QC	03/14/11 17:35	1000	1						100				
11C0526-BS1		QC	03/14/11 17:35	1000	1		PT05700	200			100				
11C0526-BSD1		QC	03/14/11 17:35	1000	1		PT05700	200			100				
PUC0730-01	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				Level 3
PUC0731-01	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0731-02	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0731-03	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0731-04	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0827-01	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0827-02	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0827-03	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0827-04	D	N_1,4-Dioxane (SW827	03/14/11 17:35	880	1						100				
PUC0827-05	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				
PUC0829-01	D	N_1,4-Dioxane (SW827	03/14/11 17:35	1000	1						100				Level 3

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

C Fair 3/21/11

Preparation Reviewed By Date

Extracts Received By Date

TestAmerica Phoenix

☐Check box if the back of the previous page is used for additional noted, comments, or calculations. The use of other scratch paper is strictly prohibited.

Extraction Date: 3-14-11 **Liquid/Liquid Extraction Record** Test Code: 1,4 Dioxane

LIMS Batch No: BNA03H11A Element No.: 11C0526 Analytical Method: 3520 C

Solvent/Lot No.1. DCM / J45501 2. — Final Sol.: DCM / J45501 Na_2SO_4 Lot #: —

Acid/Base/Lot No.1. — 2. — 3. —

Surrogate: Mod. 8270 Conc. 200ppm Volume: 100µl Std. ID#: PV01147 Exp Date 8-24-11 J.G.

Spike #1: 1,4 Dioxane ~~PTO5700~~ 8-24-11 Conc. 100ppm Volume: 200µl Std. ID#: PTO5700 Exp Date 10-31-11 J.G.

Spike #2: — Conc. — Volume: — Std. ID#: — Exp Date —

Spike #3: — Conc. — Volume: — Std. ID#: — Exp Date —

Spike #4: — Conc. — Volume: — Std. ID#: — Exp Date —

Start Time: 17:35 End Time: 1745 3/18/11 Spiked By: NA Spike Witness: JG

K-D'd by: JG E-vap'd by: JG Solvent Ex'd by: NA Brought to V_f & Vialed by: a

	Sample #	RE	Sample Frac.	pH[1]	Initial Vol/Wt (mLs/g)	Final Vol. (mLs)	K-D'd (√)	Evp'd (√)	Clean Up[2]	Color	Sample linked at:
1	MB	NA	NA	5	1L	1	√	√	NA	clear	NA
2	LCS			5	1L	1	√	√		clear	
3	LCSD			5	1L	1	√	√		clear	
4	~~MS~~ PVC0730-1		D	7	1L	1	√	√		clear	
5	~~MSD~~ PVC0731-1		D	7	1L	1	√	√		clear	
6	~~RLV~~ PVC0731-2		D	7	1L	1	√	√		blue/clear	
7	PVC0731-3		D	7	1L	1	√	√		clear	
8	PVC0731-4		D	7	1L	1	√	√		clear	
9	PVC0827-1		D	7	1L	1	√	√		clear	
10	PVC0827-2		D	7	1L	1	√	√		clear	
11	PVC0827-3		D	7	1L	1	√	√		clear	
12	PVC0827-4		D	7	880mL	1	√	√		clear	
13	PVC0827-5		D	7	1L	1	√	√		clear	
14	PVC0829-1		D	7	1L	1	√	√		clear	
15											
16											
17											
18											
19				a	3/16/11						
20											
21											
22											
23											
24											
25											

[1]Sample pH / Adjusted pH; [2]AW is Acid Wash, DW is DCM wash.

a = Acid Fraction, b = base/neutral fraction

☒ Insufficient Sample for MS/MSD ___ MS/MSD Designated ___ MS/MSD Chosen ___ Sample Container(s) Shaken & Rinsed with Solvent

Sample Extracts located in: Box# _____ Row(s) & Numbers _____ BNA Freezer ☒ SVOA's Fridge _____

Comments: Line 6 ≈ 100µl immiscible blue. a 3-16-11

Reviewer Signature: _____ Date: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD

MODIFIED EPA 8270C

DATE: 01/05/11

Work Order: PUC0730-01

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270C	Instrument#: CCMS14
Analyst: C. Lauri	Analysis Date: 01-05-11	

Method name saved in the file: DIMPANE\010511.m

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9) 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)

   If yes, what points were removed or replaced: lowest middle highest

   Why?

4. Were any individual analyte points removed? Y (N)

   If yes, what points were removed or replaced: lowest middle highest

   List of the analytes:

   Why?

5. Circle the calibration model used (you may circle one or more):
   - ☑ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst: C Lauri	Date: 1-5-11
	Reviewer: Jessica Breuer	Date: 01/05/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-QAD-022, Rev. 1
Effective Date: 09/30/2010
Page No.: 1 of 1

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270C	Instrument #: GCMS14
Analyst: C. Lauric	Analysis Date: ~~2/25/11~~ 01/05/11	3/01/11

Method name saved in the file: DIMPANE \ 010511 D.M

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
2. Did the calibration curve pass the method criteria? Y N
3. Were any points of the curve removed or replaced? Y N

   If yes, what points were removed or replaced: lowest middle highest

   Why?

4. Were any individual analyte points removed? Y N

   If yes, what points were removed or replaced: lowest middle highest

   List of the analytes:

   update due to RT shift.

   Why?

5. Circle the calibration model used (you may circle one or more)
   - ☐ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: Y N

Review Signatures:	Analyst: C Lauric	Date: 3/01/2011
	Reviewer: Jessica Brechen	Date: 03/01/11

EPA 8270C Modified 1,4-Dioxane by Isotope Dilution, Extraction & GC/MS Analysis
Data Review Checklist (Example)

ANALYSIS DATE: 01-05-11

	MEETS CRITERIA?
1. DFTPP (~~50~~ 25 on 10-19-10 ng) VERIFY MEETS CRITERIA EVERY 12 HOURS	(Y) / N
2. INITIAL CALIBRATION CURVE (MIN. 5 LEVELS) DATE: 01 05 11. m (DIOXANE)	(Y) / N
- SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05	(Y) / N
- CCC 1,4-DICHLOROBENZENE < 30% RSD, 1,4-DIOXANE ≤ 20% RSD	(Y) / N
- ALL OTHER COMPOUNDS < 15% RSD OR USE CURVE (r^2 > 0.990)	(Y) / N
TAILING FACTOR B/N BENZIDENE: 3.0	(Y) / N
3. INITIAL CALIBRATION VERIFICATION (SEC. SOURCE) ANALYZED	(Y) / N
4. CONTINUING CALIBRATION CHECK (EVERY 12 HOURS)	
- SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05	Y / N
- CCC 1,4-DICHLOROBENZENE < 20% D; 1,4-DIOXANE ≤ 20%	Y / N
- IS 1,4-DCB-d4 AREA –50% TO –100% TO MID-POINT IN I. CAL	Y / N
- IS 1,4-DCB-d4 RT ± 30 SEC. TO MID-POINT IN INITIAL CALIB.	Y / N
- TAILING FACTOR B/N BENZIDENE. 3.0	Y / N
5. METHOD BLANK	
- ANALYZE ONE PER BATCH (< 20 SAMPLES)	Y / N
- 1,4-DIOXANE MUST BE < REPORTING LIMIT	Y / N
6. LCS/LCSD WITHIN LIMITS	
- MUST BE ANALYZED PER 20 SAMPLES/BATCH	Y / N
- % RECOVERY WITHIN 80 – 120% LIMITS	Y / N
- RPD WITHIN LIMITS (≤ 25 RPD)	Y / N

Continued on next page

TITLE: EPA 8270C Modified 1,4-Dioxane By Isotope Dilution, Extraction and GC-MS Analysis

SOP Number/Revision: 05-020.03

Date Issued: March 2007

Expiration Date: March 2009

NOT TO BE PHOTOCOPIED

7. MS/MSD
   - MUST BE ANALYZED PER 20 SAMPLES/BATCH Y / N
   - % RECOVERY WITHIN 70 – 130% LIMITS Y / N
   - RPD WITHIN LIMITS (≤ 25 RPD) Y / N

8. SAMPLES
   - EXTRACTED WITHIN 7 DAYS OF SAMPLING Y / N
   - ANALYZED WITHIN 40 DAYS OF EXTRACTION Y / N
   - IS 1,4-DCB-d4 RT ÷ 30 SECs AND IS AREA –50% TO ÷100% TO CONT. CAL Y / N
   - SURROGATE RECOVERIES WITHIN LIMITS Y / N

na

9. TUNE INJECTED WITHIN 12hr TIME PERIOD (Y) N

COMMENTS

ANALYST: DATE: 1-5-11

REVIEWER: DATE:

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.D
9 =01051114.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	----------ISTD----------										
2)	C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3)	I	1,4-Dichlorobenzen...	----------ISTD----------										
4)	C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5)	P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6)	S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

G 1.5.11

010511

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

update RT shift
on 2-28-11

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.D
9 =01051114.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	----------ISTD----------										
2)	C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3)	I	1,4-Dichlorobenzen...	----------ISTD----------										
4)	C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5)	P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6)	S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

TK 030111

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/11
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Jan 05 13:29 2011	Jan 05 12:20 2011	

1.5-11

010511.M Wed Jan 05 13:33:03 2011

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	R:\022511\02251108.D ✓ used to update due to RT shift

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/2011
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Feb 28 10:27 2011	Feb 28 10:27 2011	25 Feb 2011 6:23 pm ✓

a
2/28/11

010511D.M Mon Feb 28 10:59:27 2011

3/3/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.975	1.000	A	1	A	B
2	C	1,4-Dioxane	88	3.028	1.018	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	6.092	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	6.104	1.002	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.422	1.054	A	1	A	B
6	S	Nitrobenzene-d5	82	6.557	1.076	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

010511.M Wed Jan 05 13:33:14 2011

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.m

	CCV Response	**ICAL** Response	0.5X	2X	**PASS/FAIL**
Internal Standard					
1,4-Dichlorobenzene-d4	243008	243008	121504	486016	**PASS**

Internal Standard	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	6.09	6.09	5.59	6.59	**PASS**

update
a 1-5-11

1/5/2011 1:42 PM

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\

	NAME	RT	CCV RRT Value (Target/IS)	mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.975					
	1,4-Dioxane	3.028	1.0178	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	6.092					
	1,4-Dichlorobenzene	6.104	1.0019	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.422	1.0541	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.557	1.0763	1.0763	1.0163	1.1363	<-PASS

Update only.
Added in Revised
Review checklist for
1,4-Dioxane

a 3-09-11.

3/09/11

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥010511.S
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥010511¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	1	01051101 DB5MS14	DCM
2)	Sample	2	01051102 DB5MS14	DCM
3)	Sample	3	01051103 DB5MS14	25ng tune pu00017
4)	Sample	4	01051104 DB5MS14	25ng TUNE PU00017
5)	Sample	5	01051105 DIOXANE	BLANK
6)	Sample	6	01051106 DIOXANE	0.5ug/mL PU00059
7)	Sample	7	01051107 DIOXANE	1.0ug/mL PU00060
8)	Sample	8	01051108 DIOXANE	2.0ug/mL PU00061
9)	Sample	9	01051109 DIOXANE	4.0ug/mL PU00062
10)	Sample	10	01051110 DIOXANE	10ug/mL PU00063
11)	Sample	11	01051111 DIOXANE	20ug/mL PU00064
12)	Sample	12	01051112 DIOXANE	30ug/mL PU00065
13)	Sample	13	01051113 DIOXANE	40ug/mL PU00066
14)	Sample	14	01051114 DIOXANE	100ug/mL PU0067
15)	Sample	15	01051115 DIOXANE	QCS10ug/mL PU00068
16)	Sample	1	01051116 DIOXANE	~~10ug/mL PU00063ccv~~ PCM
17)	Sample	2	01051117 DIOXANE	10ug/mL PU00063ccv
18)	Sample	3	01051118 DIOXANE	11A0067-BLK1
19)	Sample	4	01051119 DIOXANE	PTL1256-03RE1
20)	Sample	5	01051120 DIOXANE	PTL1256-04RE1
21)	Sample	6	01051121 DIOXANE	PTL1256-06RE1
22)	Sample	7	01051122 DIOXANE	PTL1256-07RE1
23)	Sample	8	01051123 DIOXANE	PTL1262-01RE1
24)	Sample	9	01051124 DIOXANE	PTL1262-02RE1
25)	Sample	10	01051125 DIOXANE	PTL1256-10
26)	Sample	11	01051126 DIOXANE	PTL1262-01
27)	Sample	12	01051127 DIOXANE	PTL1262-02

a 1/6/11

a 1-5-11

a 1-5-11

a 1-6-11

Sequence Reviewed By: a Date: 1-6-11

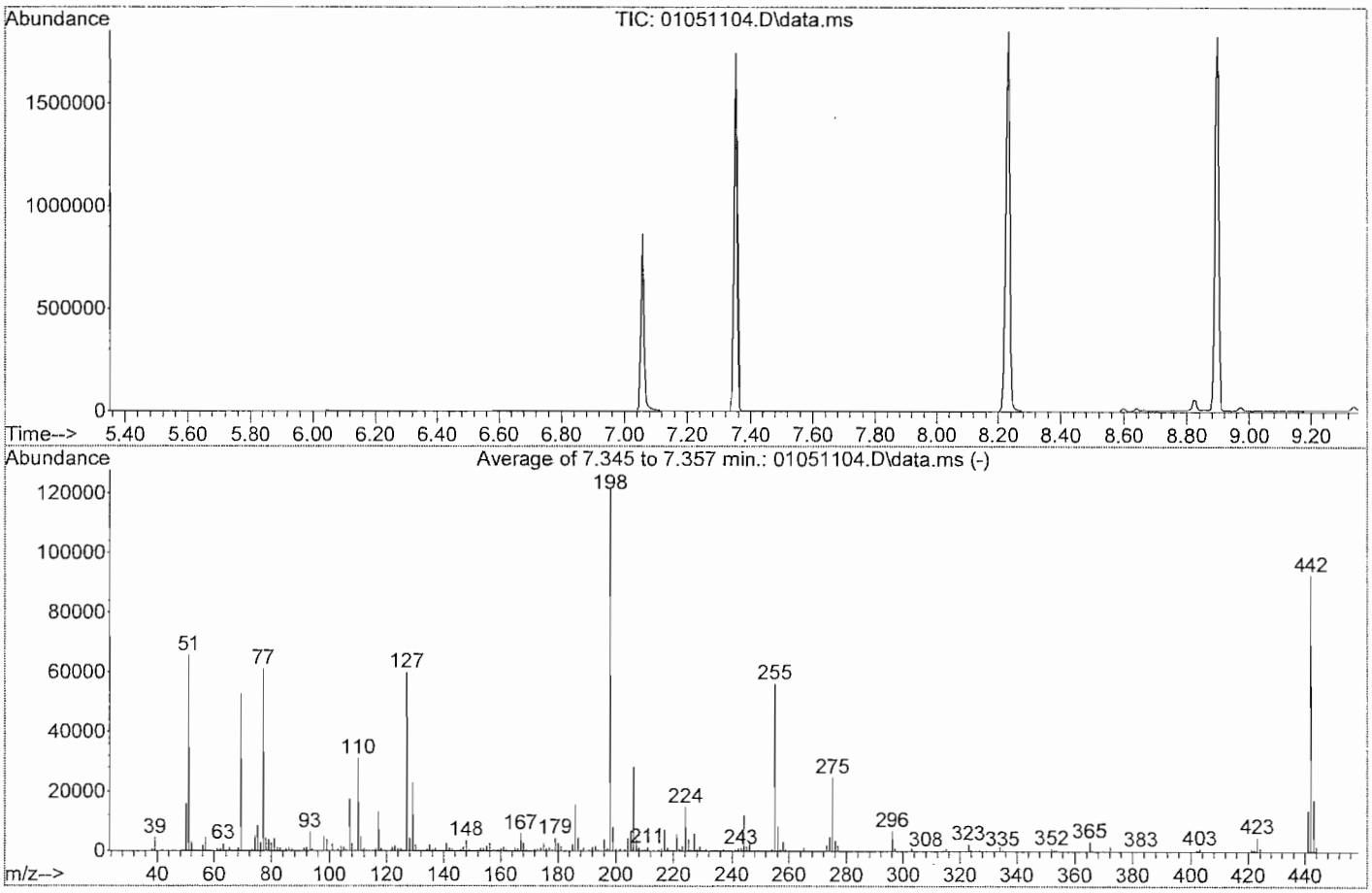
Date Analyzed: 1-6-11 Analyst: a Date Run: 1-5-11

DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
Last Update : Fri Sep 10 17:23:33 2010



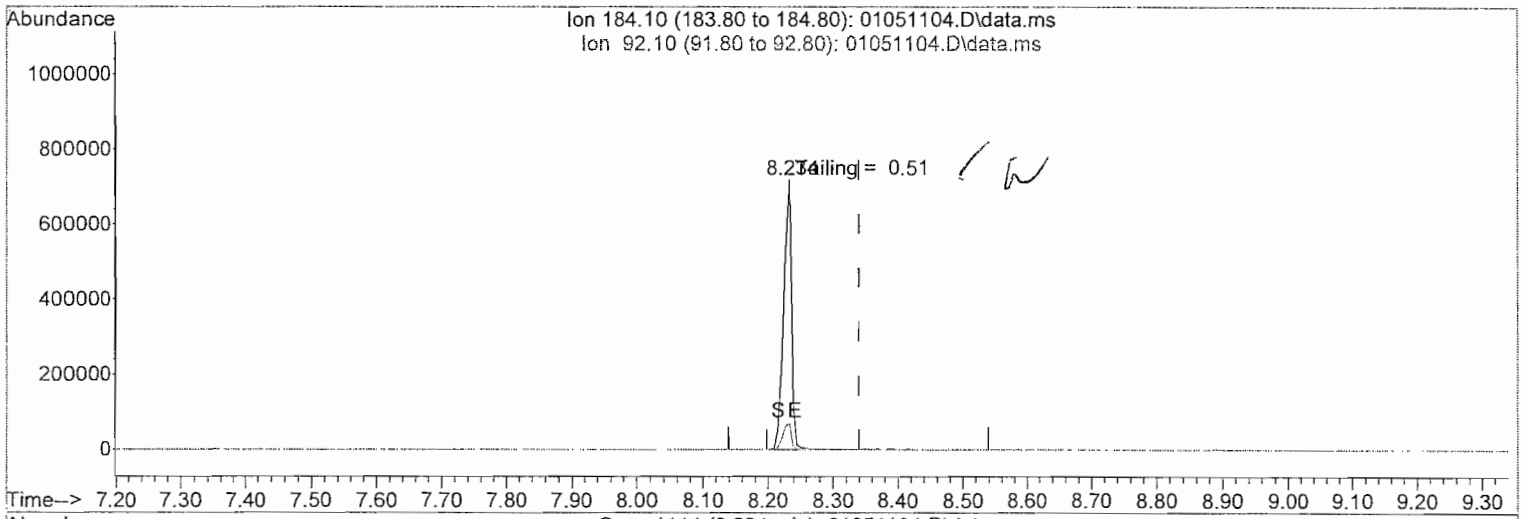
AutoFind: Scans 963, 964, 965; Background Corrected with Scan 958

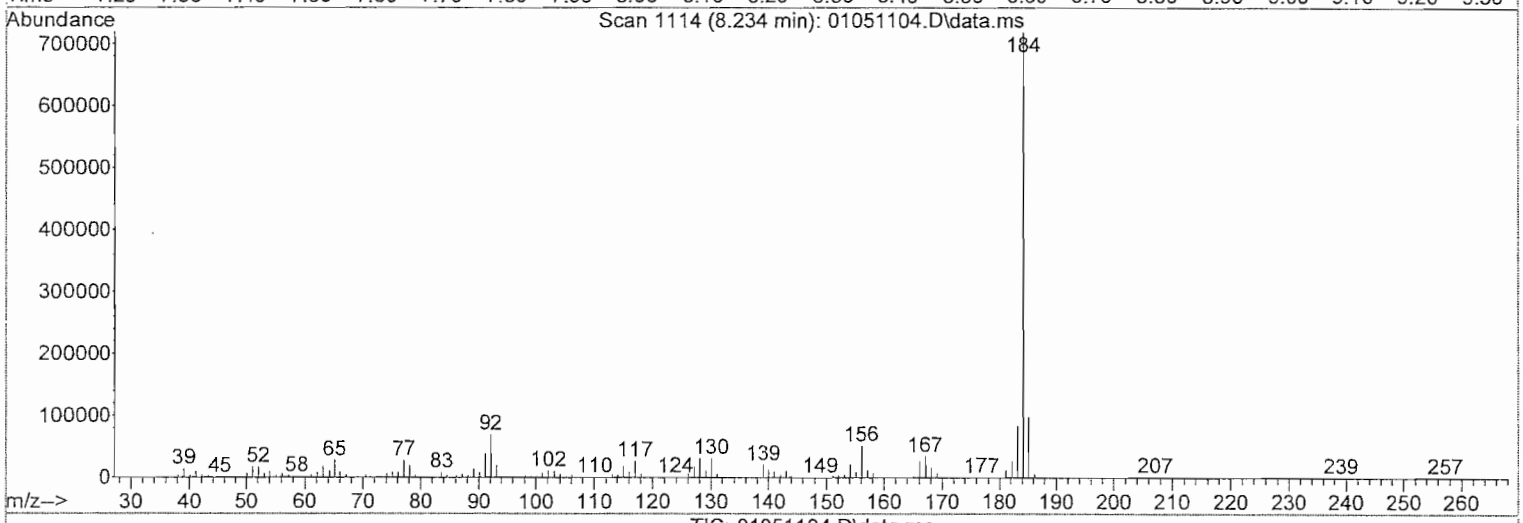
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.0	65567	PASS
68	69	0.00	2	1.8	948	PASS
69	198	0.00	100	43.2	52531	PASS
70	69	0.00	2	0.4	221	PASS
127	198	40	60	49.2	59789	PASS
197	198	0.00	1	0.7	889	PASS
198	198	100	100	100.0	121514	PASS
199	198	5	9	6.5	7948	PASS
275	198	10	30	20.3	24613	PASS
365	198	1	100	2.6	3102	PASS
441	443	0.01	100	78.5	13579	PASS
442	198	40	100	76.1	92525	PASS
443	442	17	23	18.7	17299	PASS

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 11:46:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
QLast Update : Fri Sep 10 17:23:33 2010
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D





TIC: 01051104.D\data.ms

(2) Benzidine

8.234min (-0.106) 7.68

response 603050

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	300515	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	6.092	152	231052	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	0.000	82	0	0.00 ug/mL	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.999	88	49	0.00 ug/mL#	1
4) 1,4-Dichlorobenzene	6.092	146	306	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

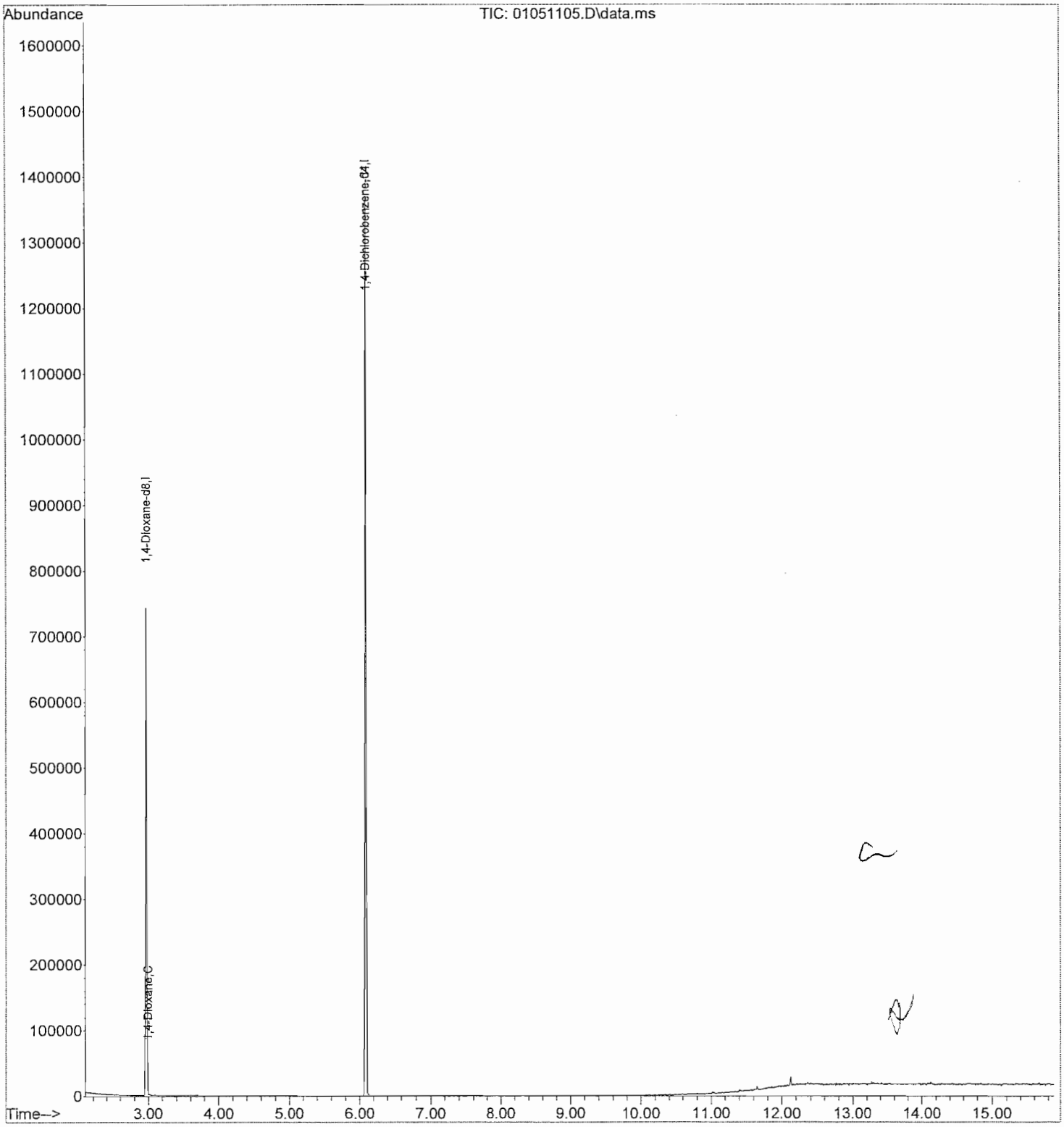
01-5-11

01/05/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

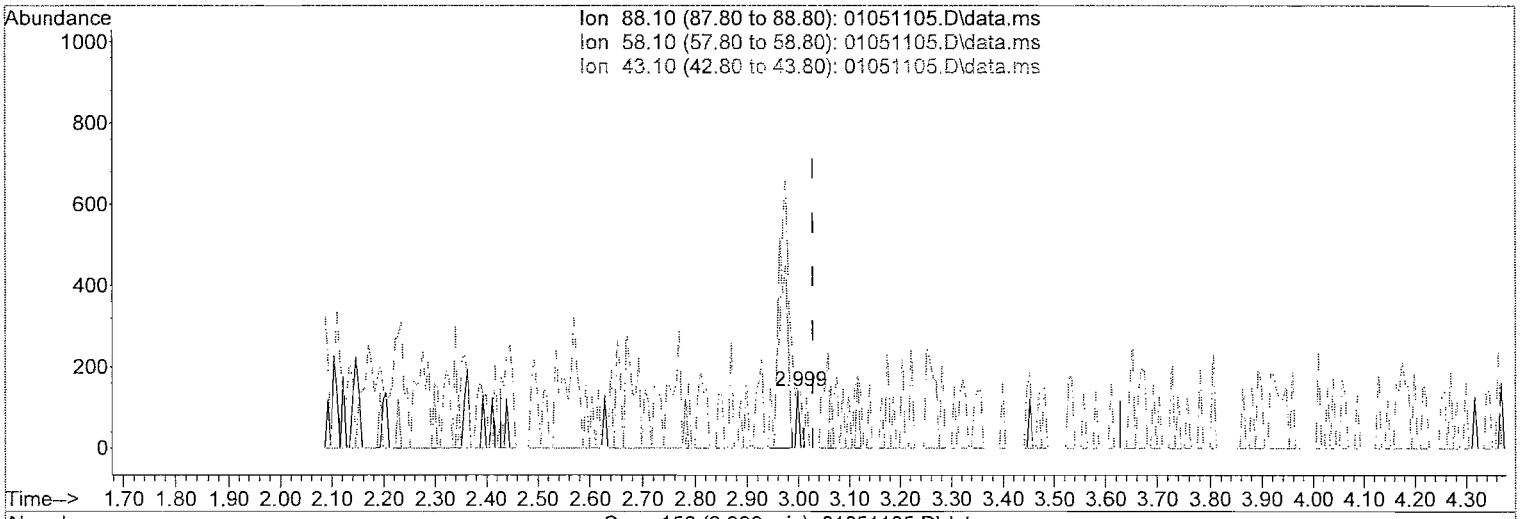
Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

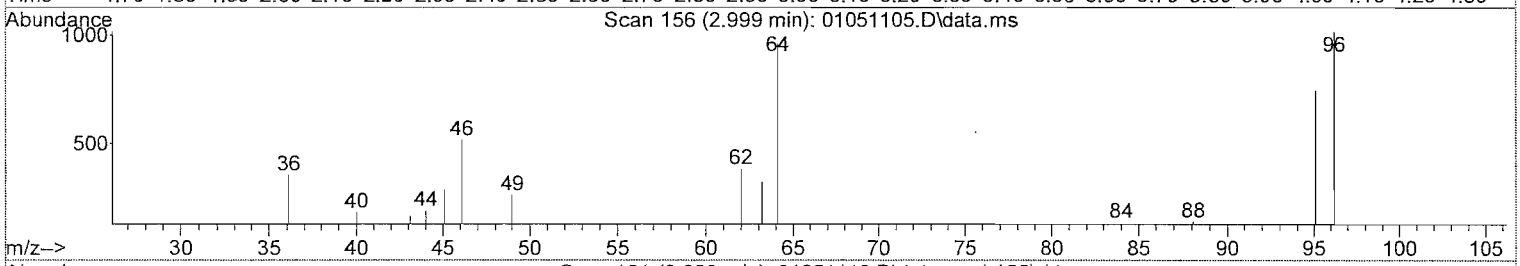


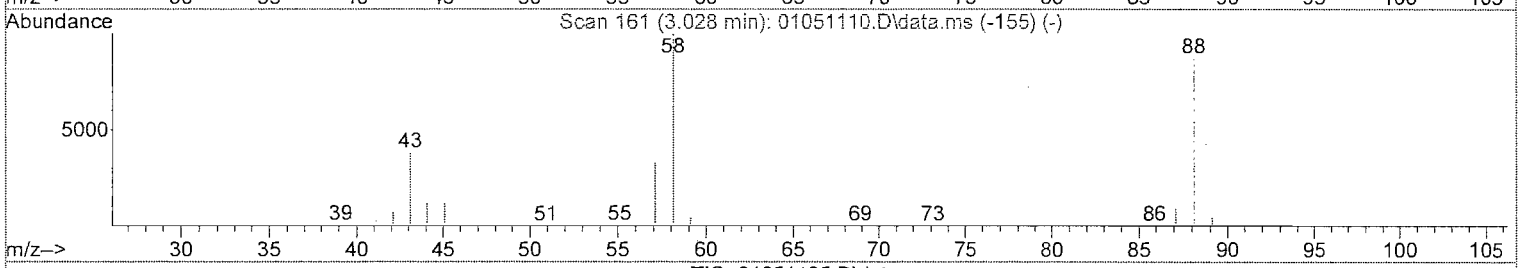
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration







TIC: 01051105.D\data.ms

(2) 1,4-Dioxane (C)

2.999min (-0.029) 0.00ug/mL

response 49

Ion	Exp%	Act%
88.10	100	100
58.10	97.60	1263.27#
43.10	39.30	2171.43#
0.00	0.00	0.00

ND ~1.5-11

010511.M Wed Jan 05 13:46:13 2011 Page: 1

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.963	96	318261	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	240601	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	20080	0.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.016	88	7745	0.48 ug/mL	96
4) 1,4-Dichlorobenzene	6.104	146	19858	0.51 ug/mL	87
5) N-Nitrosodi-n-propylamine	6.422	70	12932	0.61 ug/mL	98

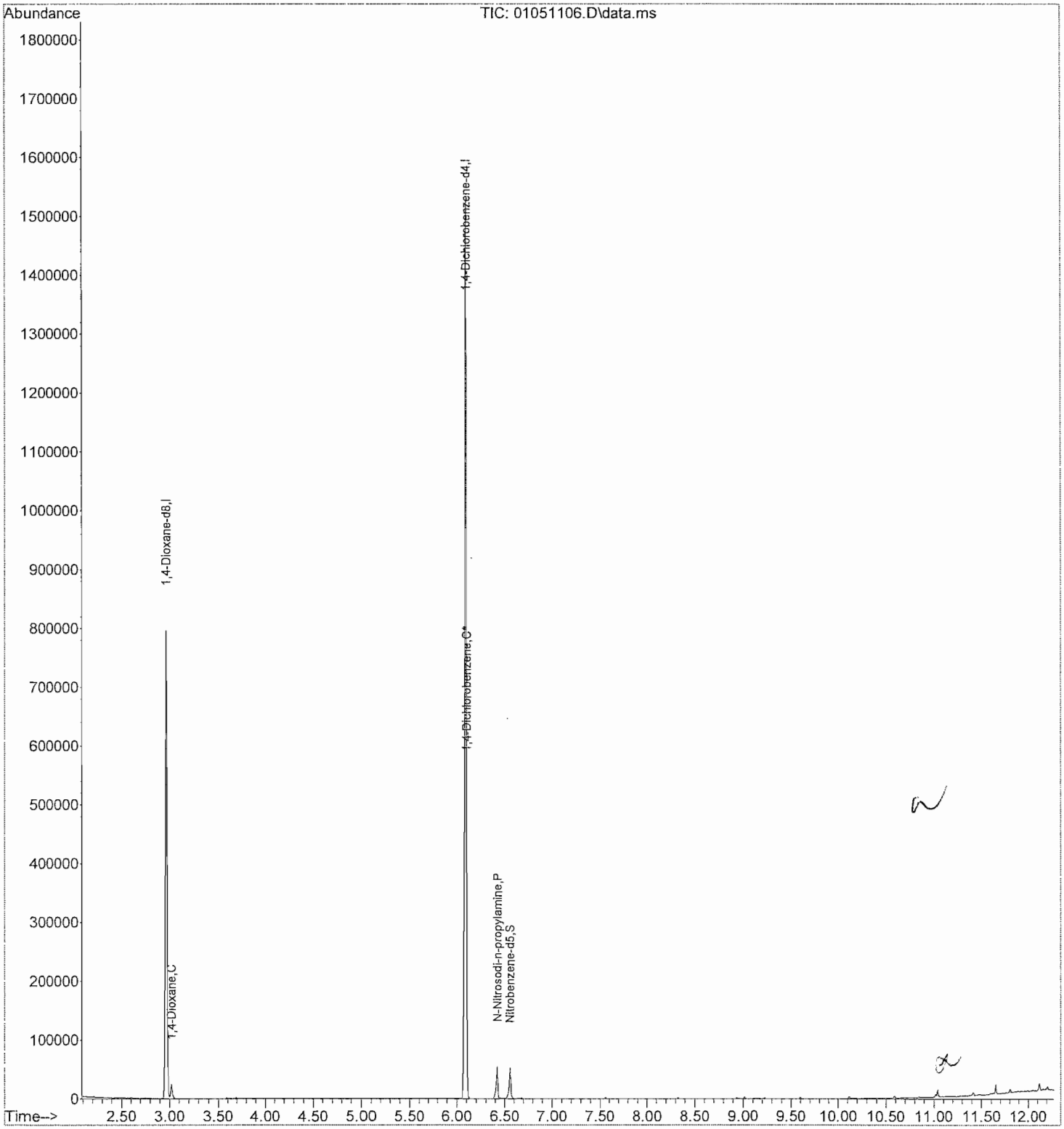
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01-5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	283387	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	213017	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	36439	1.28 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	14877	1.04 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	35480	1.03 ug/mL	95
5) N-Nitrosodi-n-propylamine	6.422	70	23862	1.28 ug/mL	96

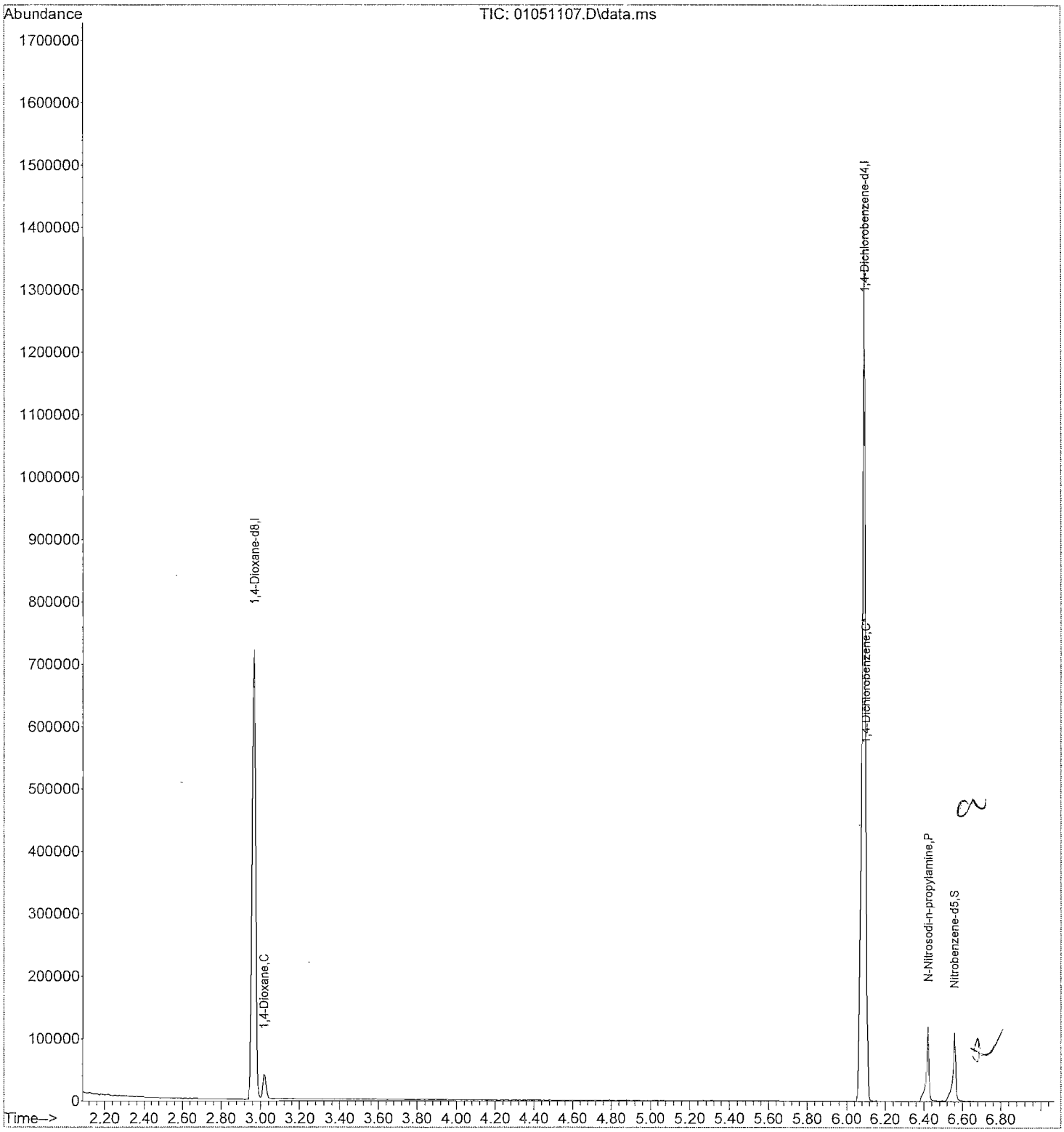
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	323796	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.087	152	240424	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	92526	2.87 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	34074	2.09 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	83920	2.15 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.416	70	59969	2.84 ug/mL	99

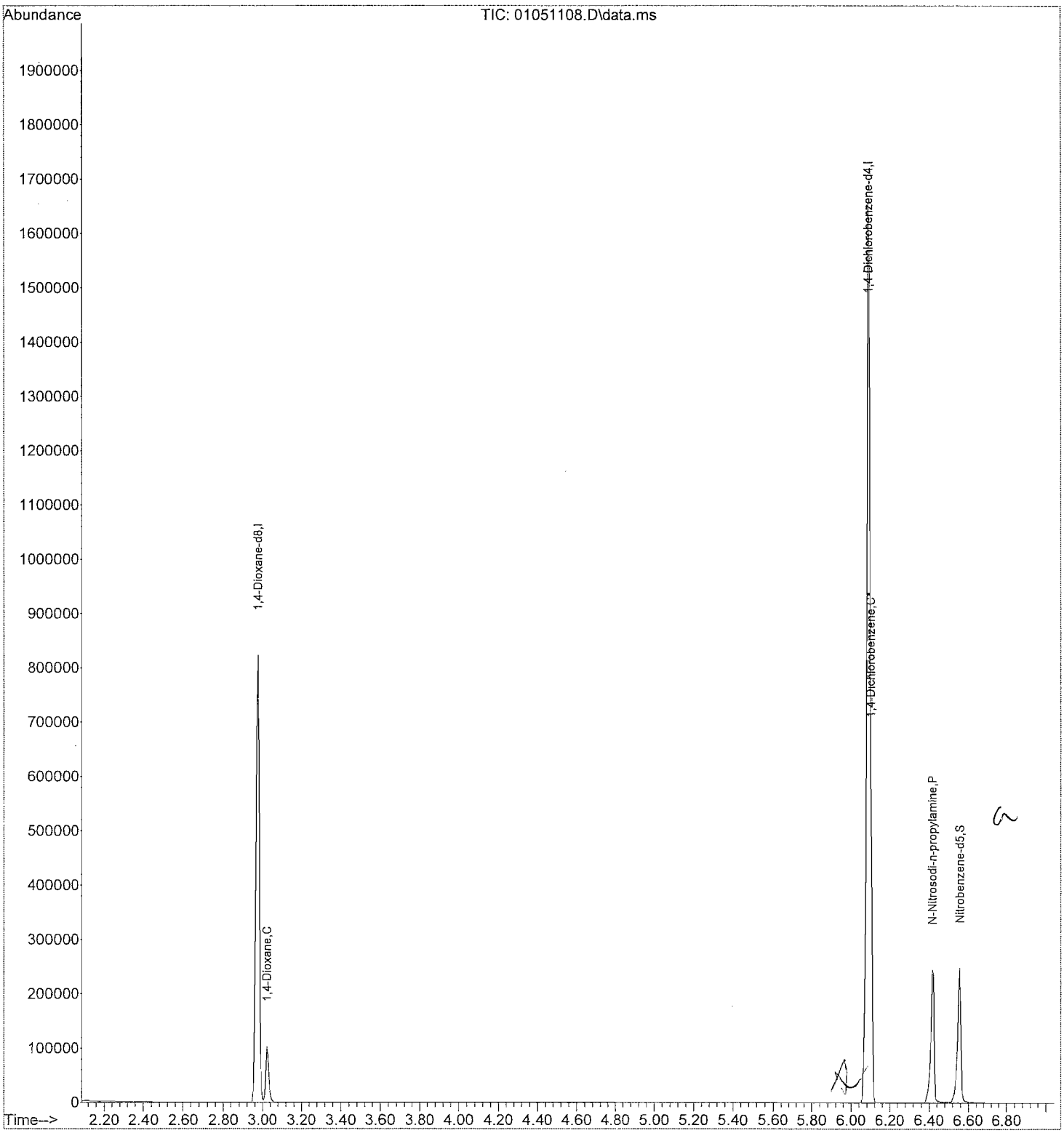
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.957	96	304589	20.00 ug/mL	0.01
3) 1,4-Dichlorobenzene-d4	6.092	152	229794	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	173101	5.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.004	88	65016	4.24 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	157766	4.23 ug/mL	98
5) N-Nitrosodi-n-propylamine	6.422	70	115445	5.73 ug/mL	98

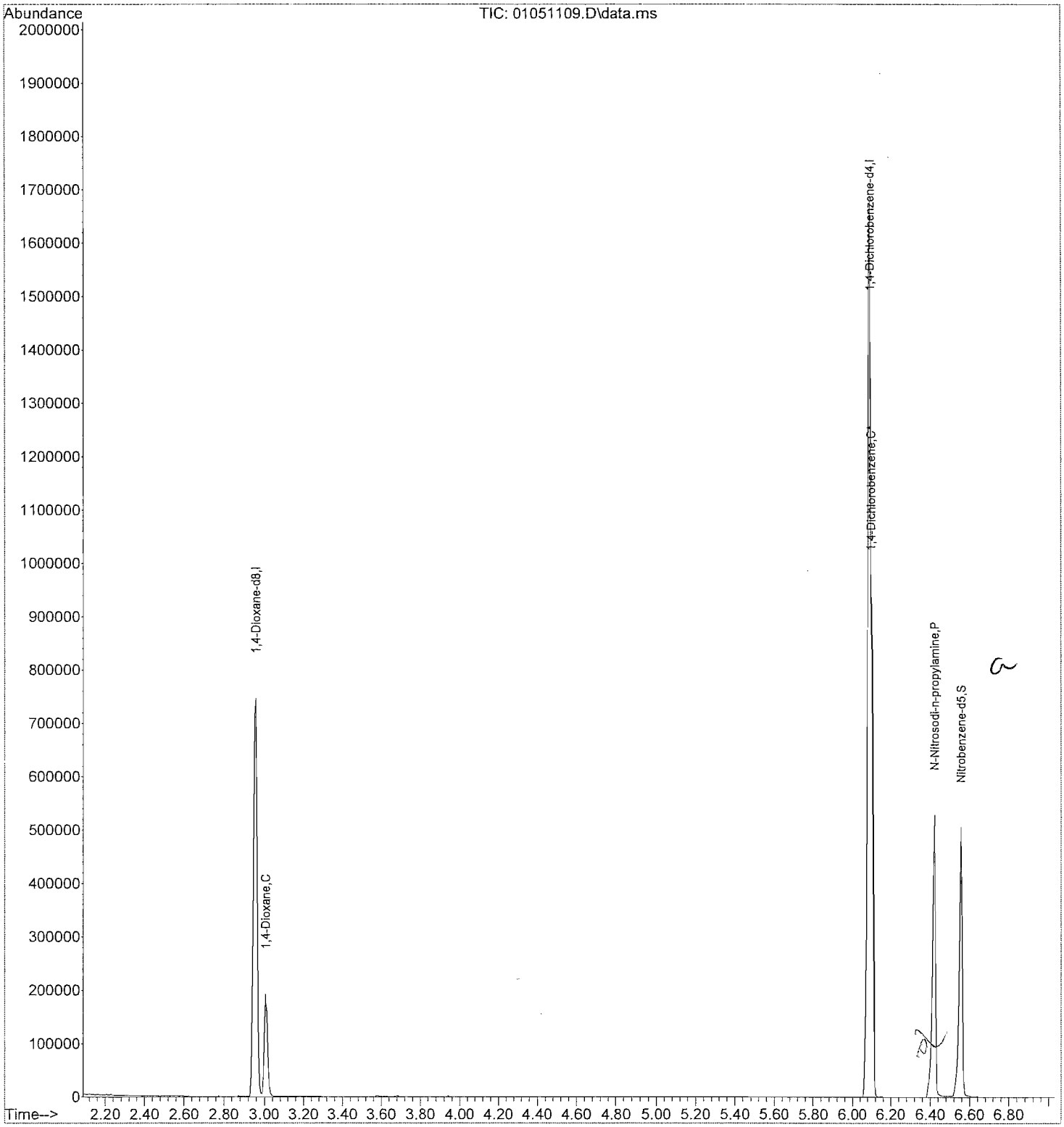
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	326940	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	243008	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	454083	13.94 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.028	88	171569	10.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	404965	10.27 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.422	70	304989	14.31 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

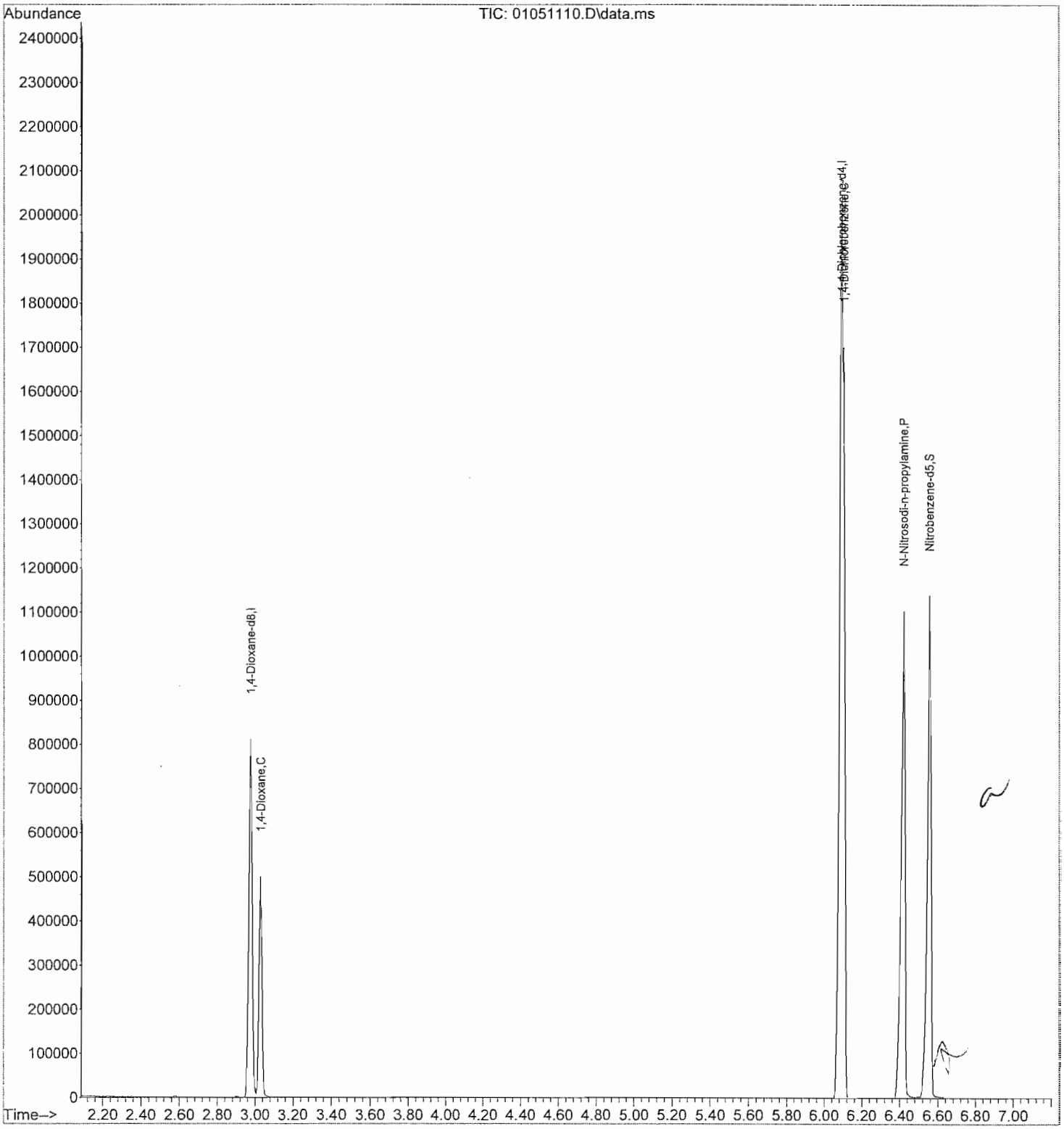
01.5.11

Final

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.892	96	258958	20.00 ug/mL	-0.05
3) 1,4-Dichlorobenzene-d4	6.092	152	185062	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	670408	27.02 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.951	88	261828	20.07 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	613271	20.43 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	453173	27.92 ug/mL	99

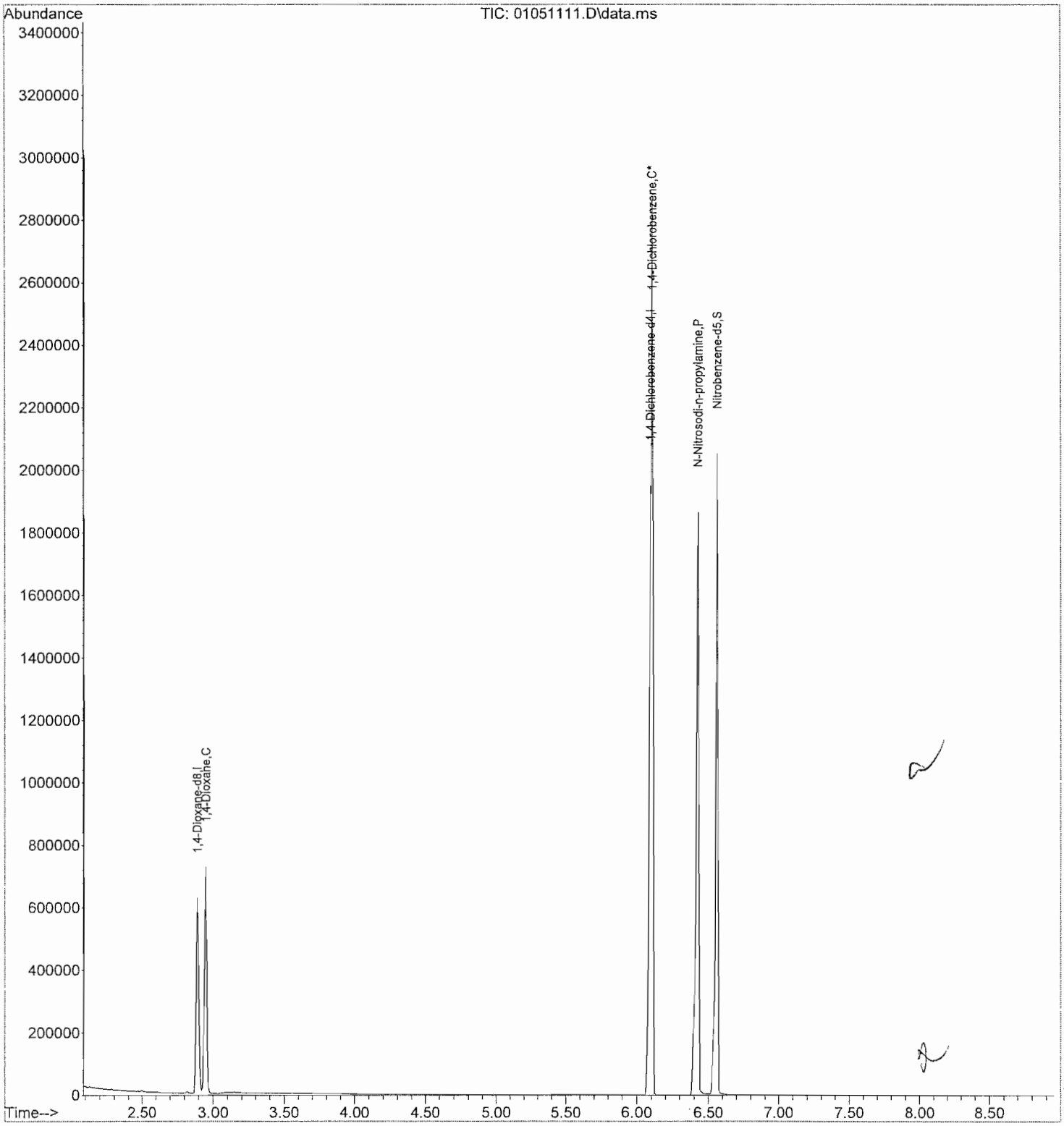
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	330882	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	235894	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	1276344	40.36 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.040	88	495415	29.72 ug/mL	98
4) 1,4-Dichlorobenzene	6.104	146	1137949	29.74 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	858130	41.47 ug/mL	99

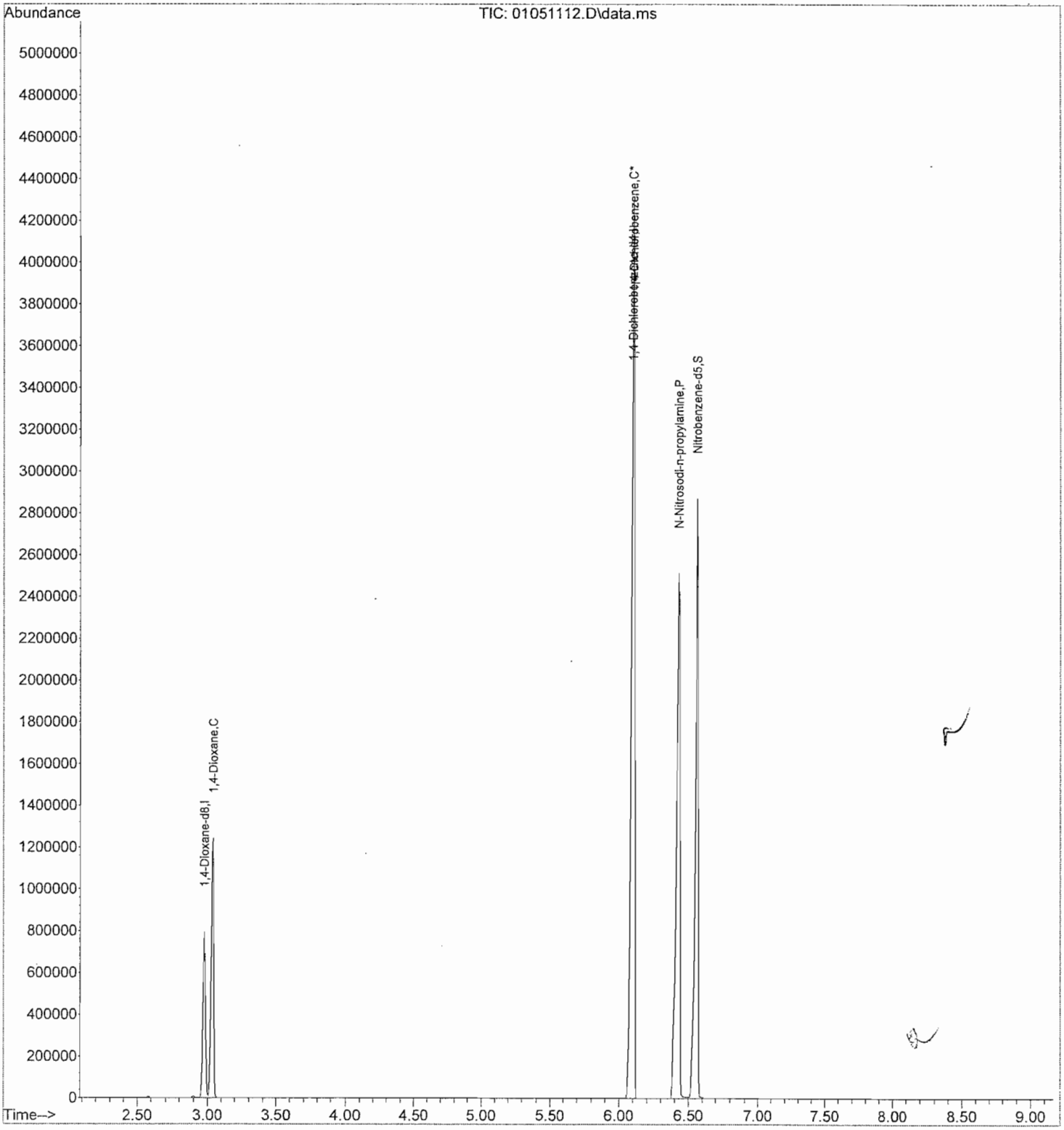
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.875	96	235570	20.00 ug/mL	-0.07
3) 1,4-Dichlorobenzene-d4	6.093	152	170137	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.569	82	1198475	52.55 ug/mL	0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.940	88	479723	40.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.110	146	1084666	39.30 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.434	70	813006	54.48 ug/mL	100

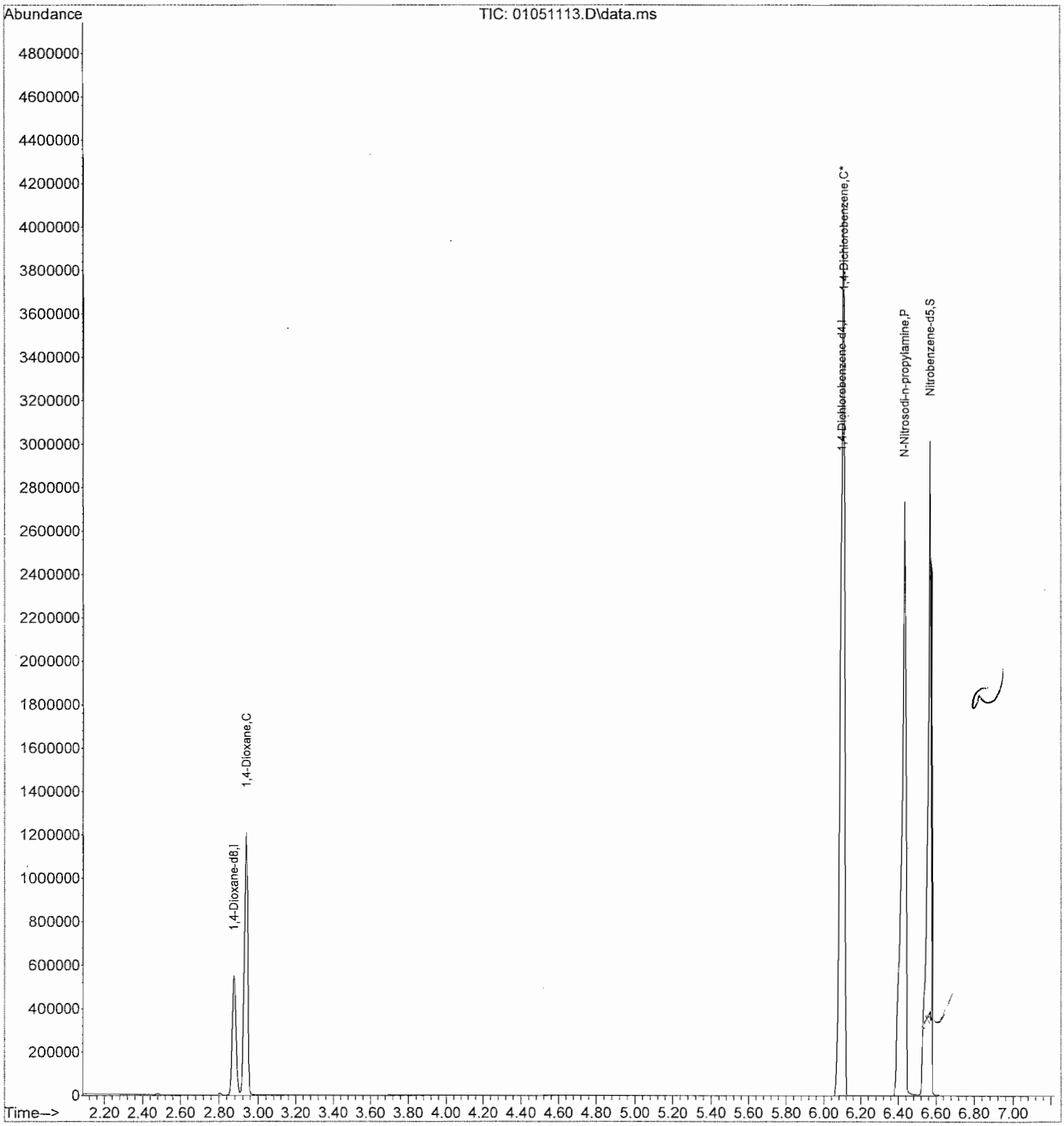
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.787	96	203549m	20.00 ug/mL	-0.16
3) 1,4-Dichlorobenzene-d4	6.092	152	140662	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.581	82	2386881	126.59 ug/mL	0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.863	88	957052m	93.33 ug/mL	
4) 1,4-Dichlorobenzene	6.110	146	2103702	92.19 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.451	70	1646696	133.46 ug/mL	99

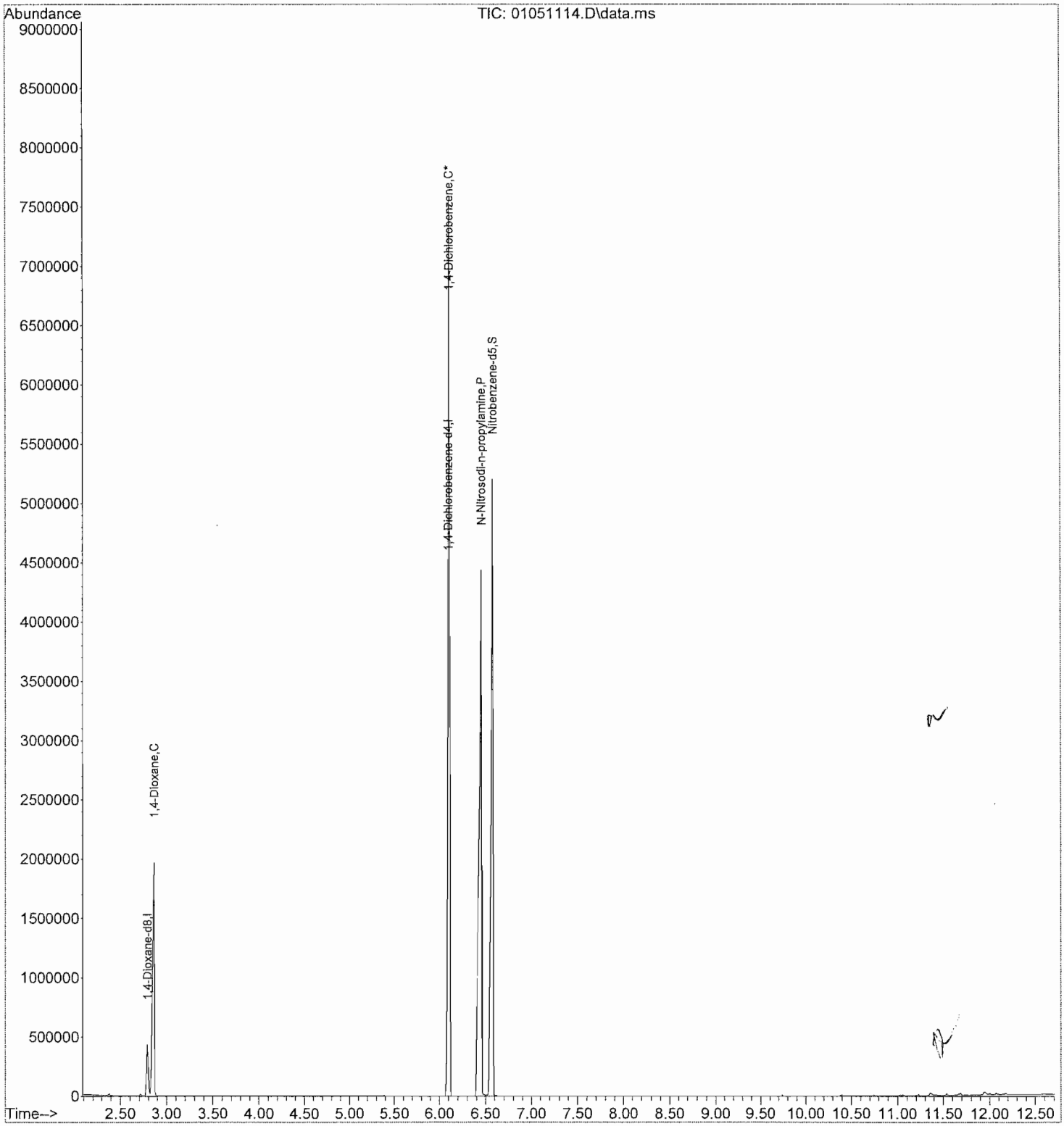
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

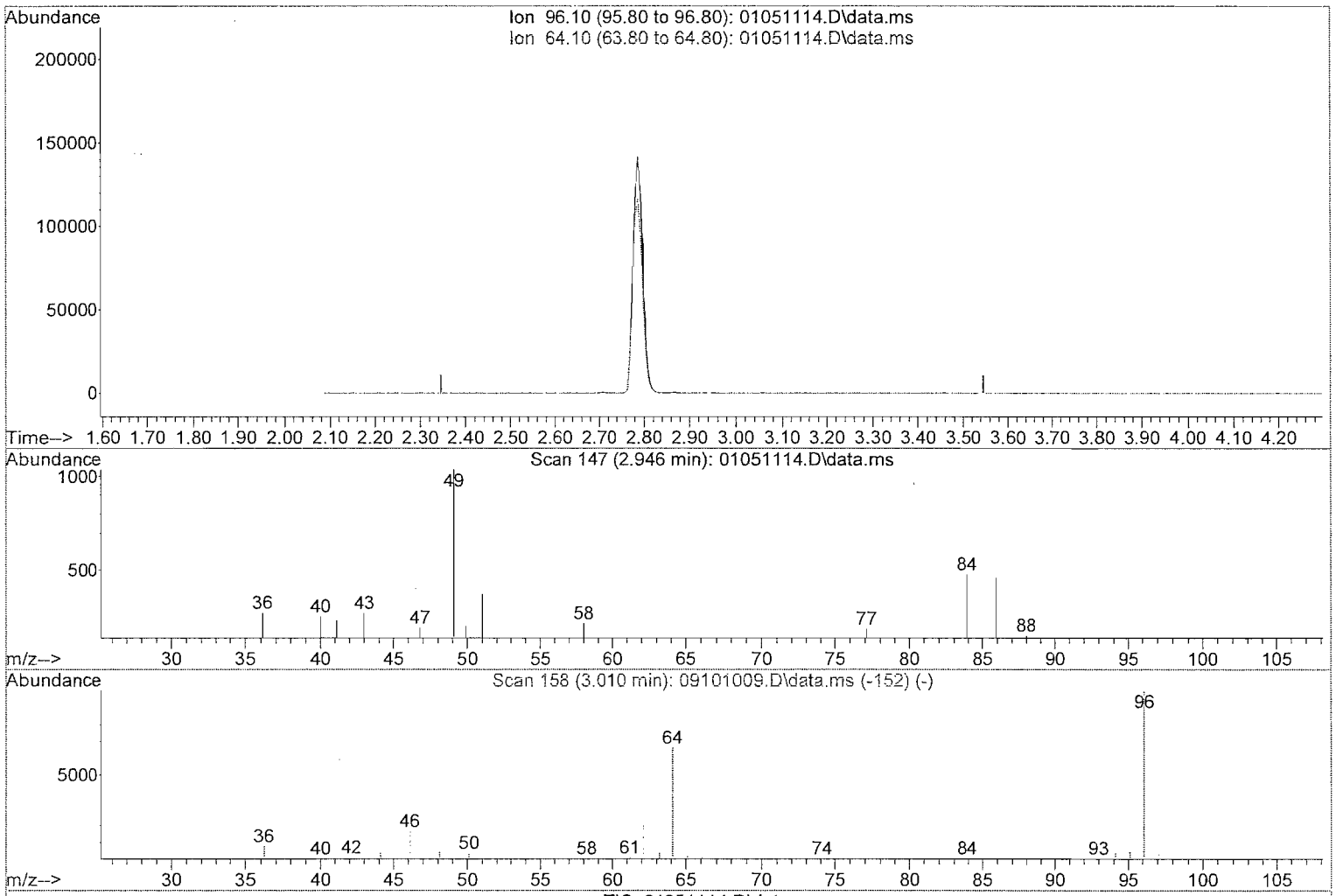
Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



B

(1) 1,4-Dioxane-d8 (I)

2.946min (-2.946) 0.00ug/mL

response 0

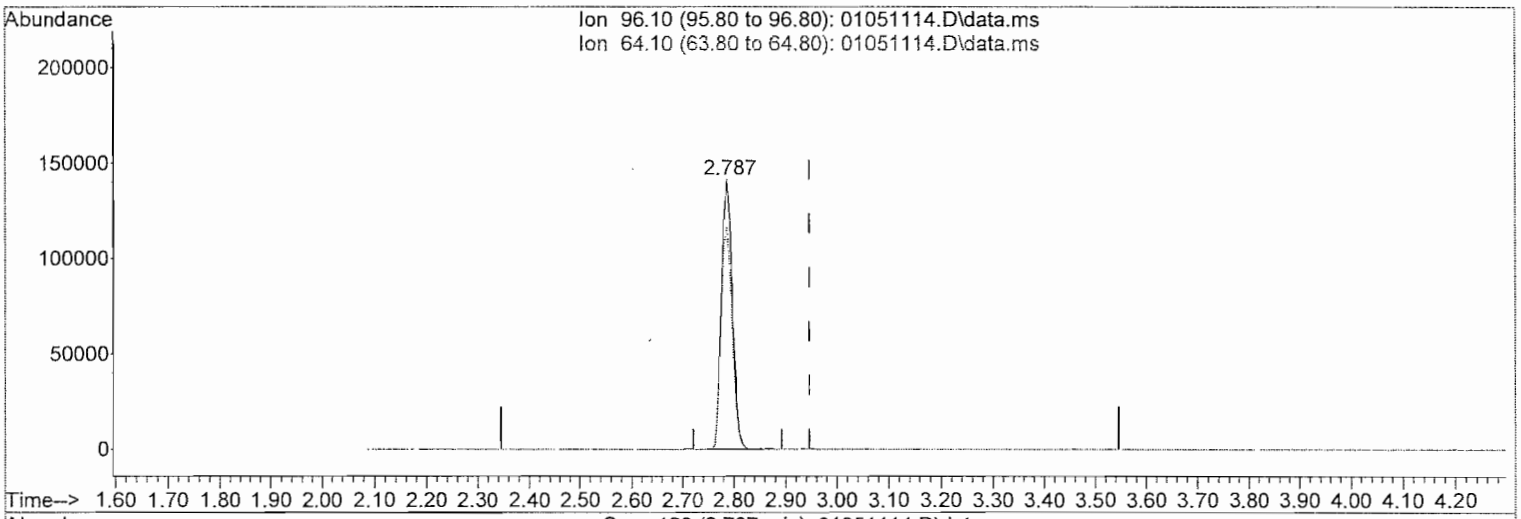
Ion	Exp%	Act%
96.10	100	0.00
64.10	83.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

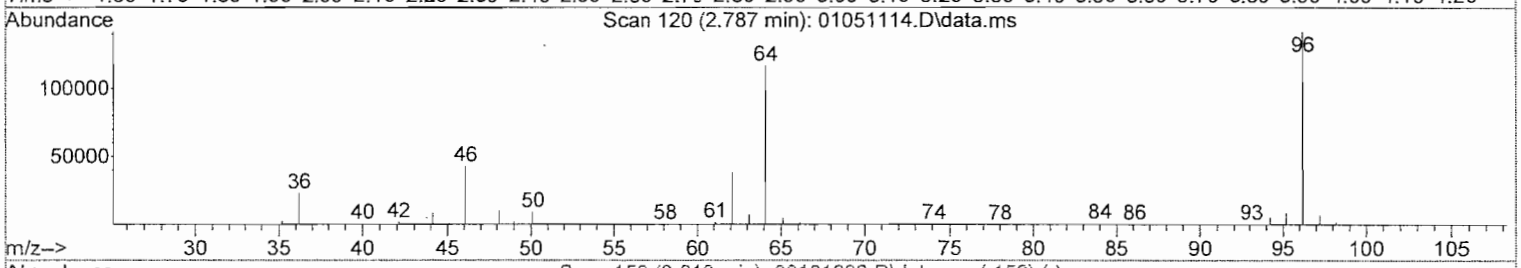
TD
01.5.11

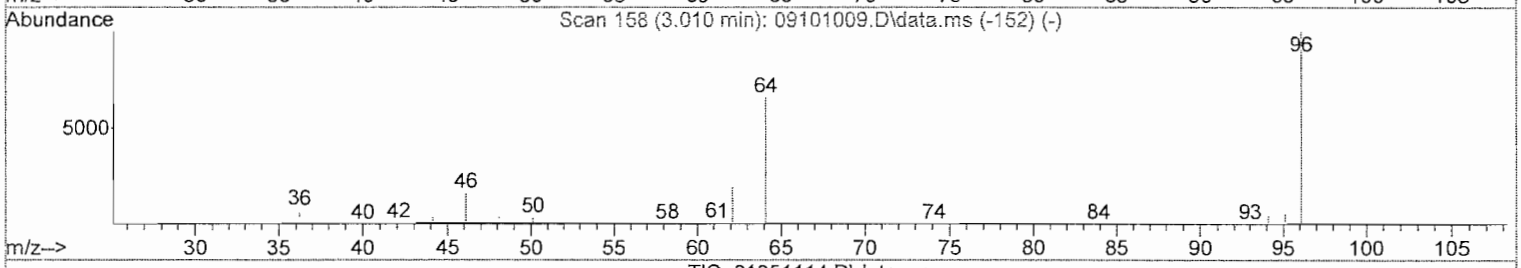
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.787min (-0.159) 20.00ug/mL m

response 203549

Ion	Exp%	Act%
96.10	100	100
64.10	83.80	83.74
0.00	0.00	0.00
0.00	0.00	0.00

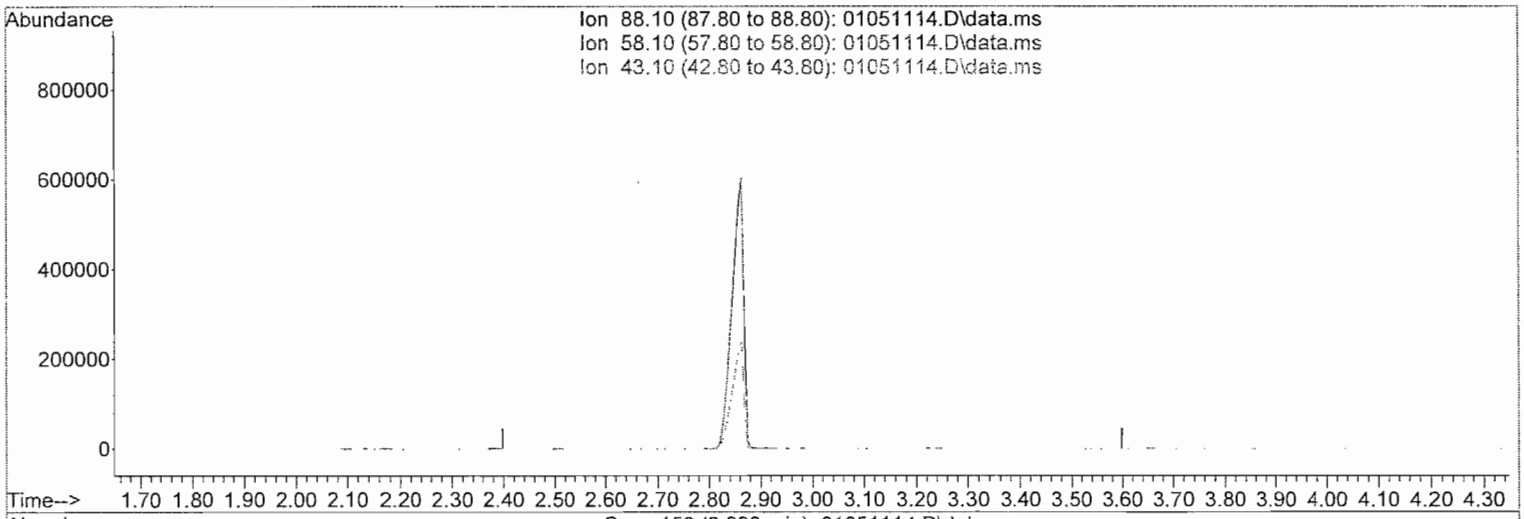
A

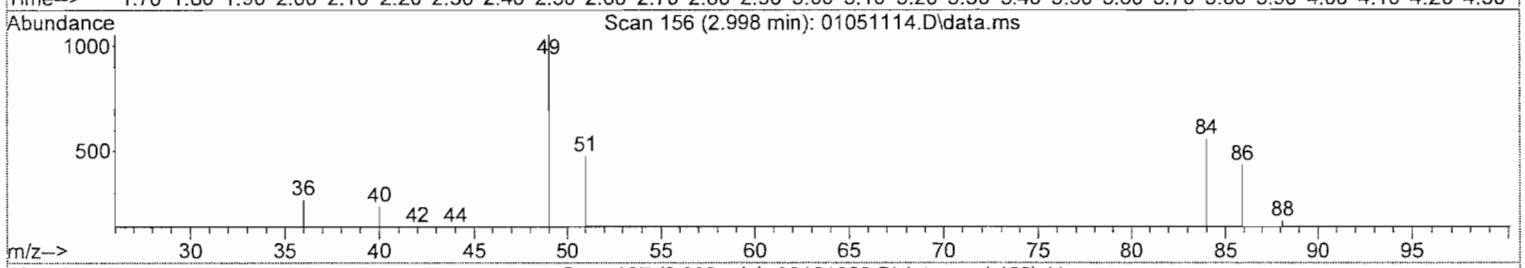
1-5-11

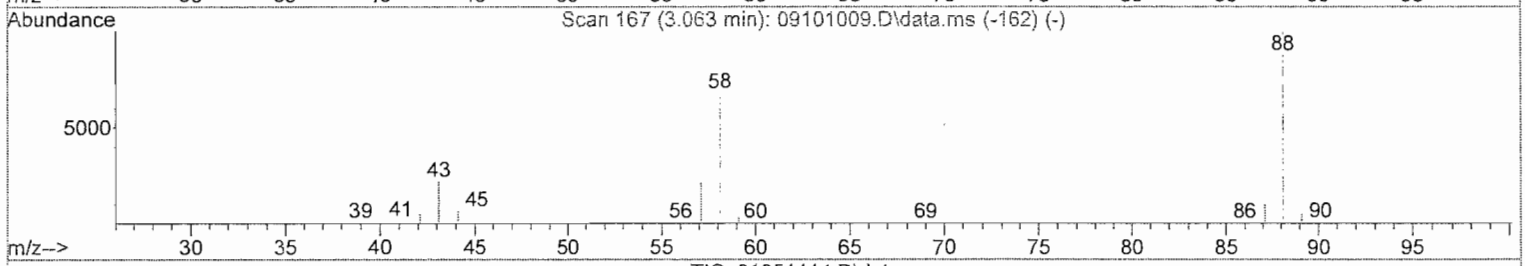
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

B

(2) 1,4-Dioxane (C)

2.998min (-2.998) 0.00ug/mL

response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	97.70	0.00#
43.10	38.10	0.00#
0.00	0.00	0.00

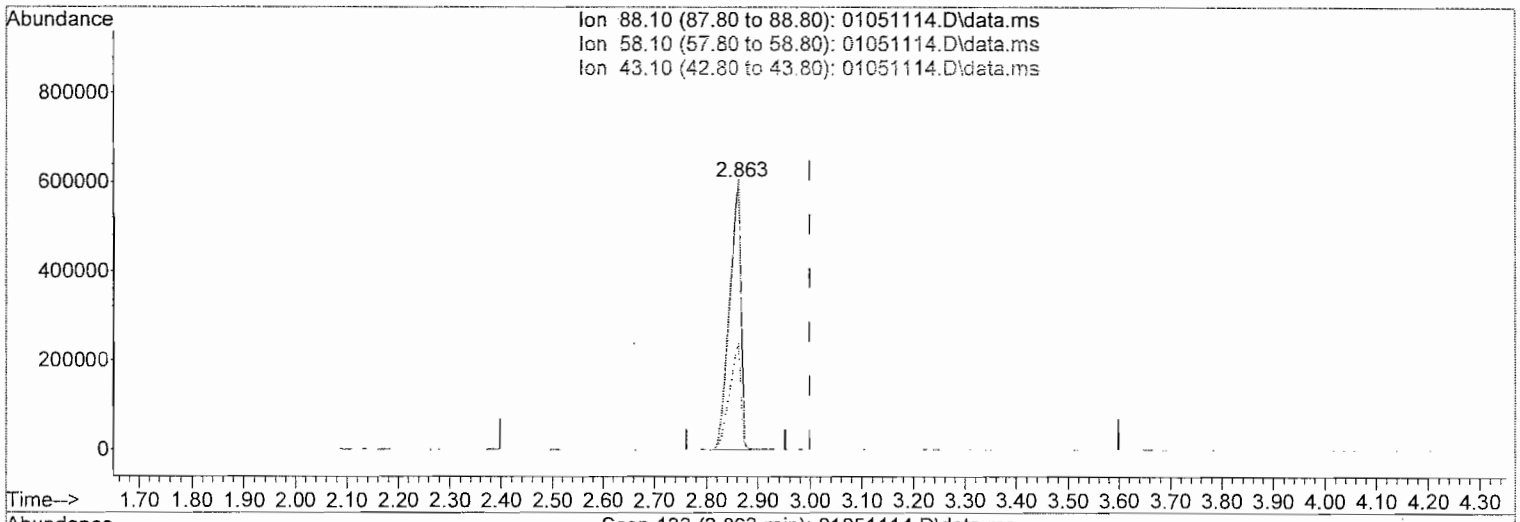
ID

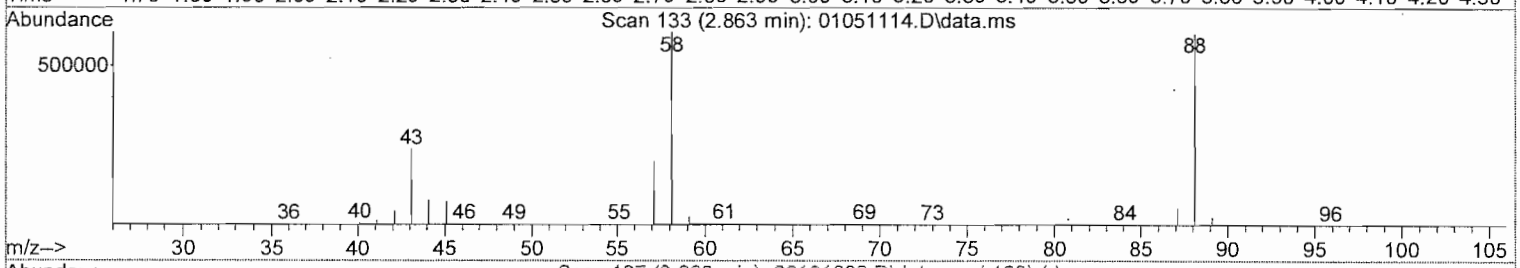
a 1-5-11

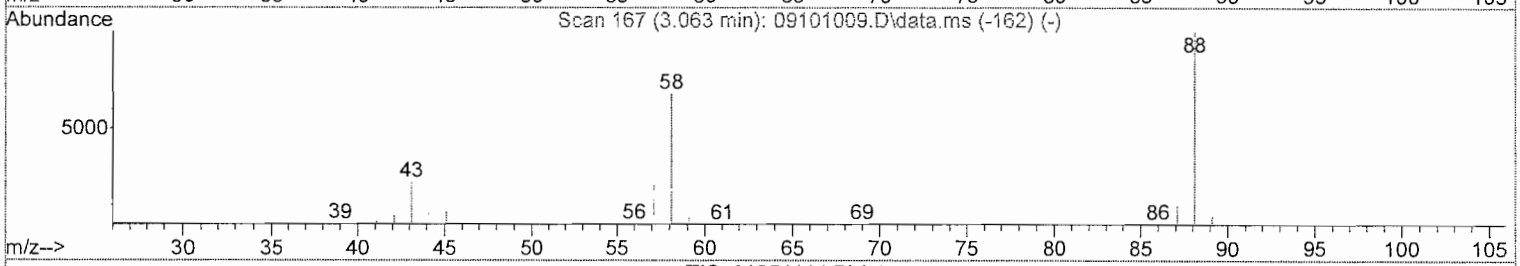
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

(2) 1,4-Dioxane (C)

2.863min (-0.135) 93.33ug/mL m

response 957052

Ion	Exp%	Act%
88.10	100	100
58.10	97.70	100.08
43.10	38.10	38.93
0.00	0.00	0.00

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.946	96	322333	20.00 ug/mL	-0.03
3) 1,4-Dichlorobenzene-d4	6.086	152	233788	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	43	0.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.998	88	165372	10.08 ug/mL	98
4) 1,4-Dichlorobenzene	6.081	146	386	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

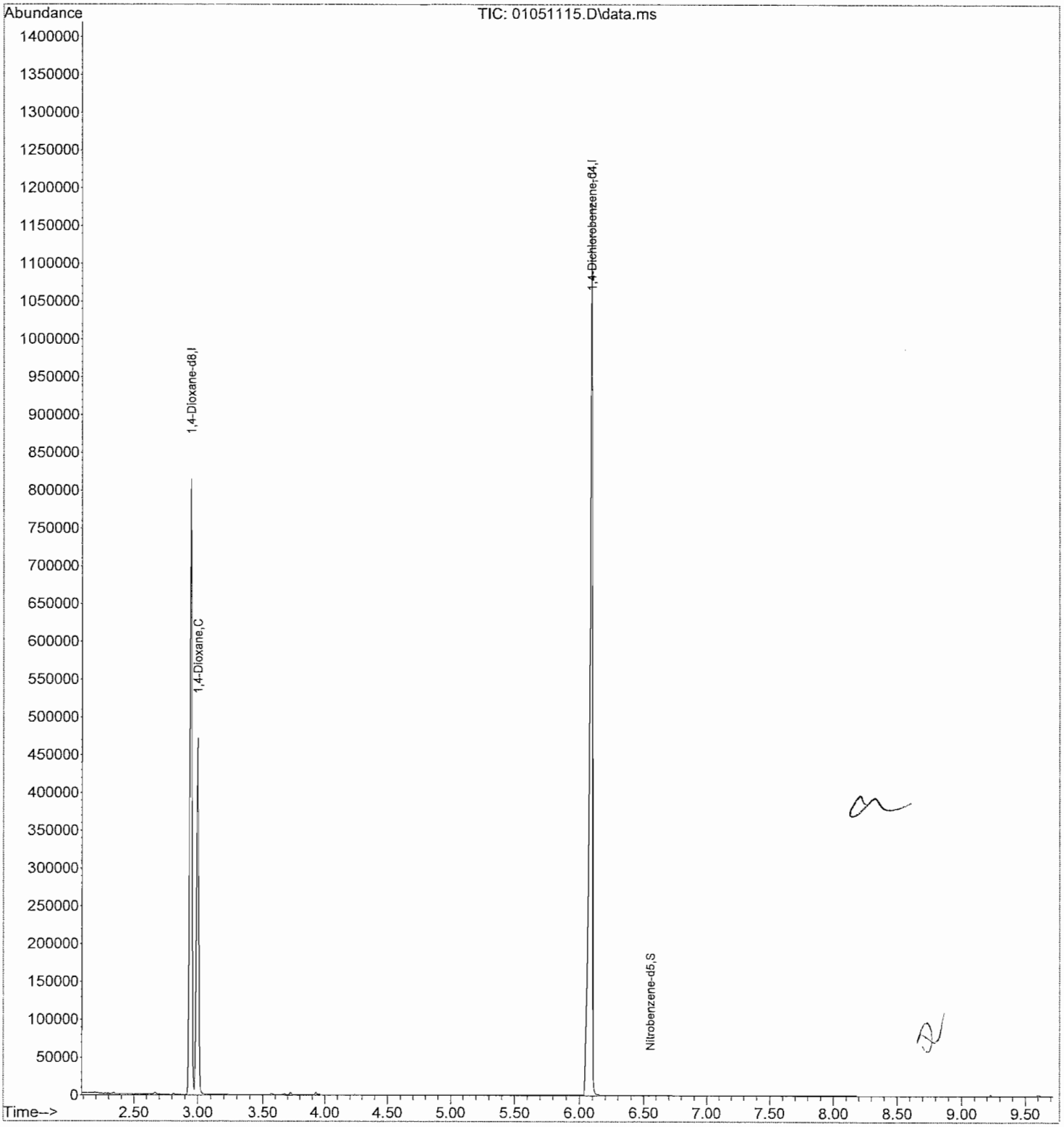
100.8 v/2

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: EPA 8270C

DATE: 03/16/11

WORK ORDER: PUC0730-01

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-SVD-014, R.1
Effective Date: 01/18/2011
Page No.: 1 of 1

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C. Lamie	Batch ID# 11C0526	Date Analyzed: 3/16/11

	Description	Yes	No	NA[1]
1.	Tune 3:45 PM 3-16-11			
-	DFTPP (~~50~~ 25 ng) meets method criteria?	✓		
-	Tailing – Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?	✓		
2.	Calibration Curve (minimum of 5 levels)	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	CCC 1,4-Dichlorobenzene ≤30%	✓		
-	All compounds RSD ≤20% or linear/quadratic $r^2 \geq 0.99$	✓		
-	QCS recovered ± 30%	✓		
-	Date of Initial Calibration: 010511D Instrument: GCMS14			
3.	Retention Times Updated?		✓	
4.	CCVs all analytes ~~recovered~~ within ± 20% D (includes CCC 1, 4-Dichlorobenzene)?	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	Internal Standard RT ± 0.5 min. from 10 ~~ppb~~ ug/mL std. in ICAL?	✓		
-	Internal Standard Areas -50% to ~~200~~ +100% of 10 ~~ppb~~ ug/mL std. in ICAL?	✓		
-	Analyte RRTs ± 0.06 from ~~50ppb~~ 10 ug/mL std. in ICAL?	✓		
5.	Method Blank extracted with batch?	✓		
-	All target analytes recovered <RL?	✓		
6.	LCS/LCSD extracted with batch?	✓		
-	Recoveries within Laboratory Limits?	✓		
-	RPDs ≤ Laboratory Limits?	✓		
7.	MS/MSD extracted with batch?			
-	Recoveries within Historical Limits?			
-	RPDs Laboratory Limits?			
8.	Samples extracted within 7 days from collection?	✓		
-	Samples analyzed within 40 days from extraction?	✓		
-	Internal Standard RT ± 0.5 min. from CCV?	✓		
-	Internal Standard Areas -50% to ~~200~~ +100% of 10 ~~ppb~~ ug/mL std. in ICAL?	✓		
-	Maximum of 20 samples in batch?	✓		
-	Surrogate recoveries within Historical Limits?	✓		

Comments: IS Element ID(s): PT02037 (1,4-DCB-d4)

mu RE

Review Signatures:	Analyst: C Lamie	Date: 3/21/11
	Reviewer: Amy Klemurski	Date: 3/21/11

1) NA: Not Applicable

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥031611.S
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	03161101	DB5MS14	DCM
2)	Sample	2	03161102	DB5MS14	DCM
3)	Sample	3	03161103	DB5MS14	DCM
4)	Sample	4	03161104	DB5MS14	25ng tune std pu01447
5)	Sample	5	03161105	DIOXANE	DCM
6)	Sample	6	03161106	DIOXANE	10ug/mL 14-diox-01520
7)	Sample	7	03161107	DIOXANE	DCM
8)	Sample	8	03161108	DIOXANE	11C0526-BLK1
9)	Sample	9	03161109	DIOXANE	11C0526-BS1
10)	Sample	10	03161110	DIOXANE	11C0526-BSD1
11)	Sample	11	03161111	DIOXANE	PUC0730-01
12)	Sample	12	03161112	DIOXANE	PUC0731-01
13)	Sample	13	03161113	DIOXANE	PUC0731-02
14)	Sample	14	03161114	DIOXANE	PUC0731-03
15)	Sample	15	03161115	DIOXANE	PUC0731-04
16)	Sample	16	03161116	DIOXANE	PUC0827-01
17)	Sample	17	03161117	DIOXANE	PUC0827-02
18)	Sample	18	03161118	DIOXANE	PUC0827-03
19)	Sample	19	03161119	DIOXANE	PUC0827-04
20)	Sample	20	03161120	DIOXANE	PUC0827-05
21)	Sample	21	03161121	DIOXANE	PUC0829-01
22)	Sample	22	03161122	DIOXANE	DCM
23)	Sample	23	03161123	DIOXANE	DCM

a 3/17/11

a 3/17/11

Sequence Reviewed By: a Date: 3/17/11

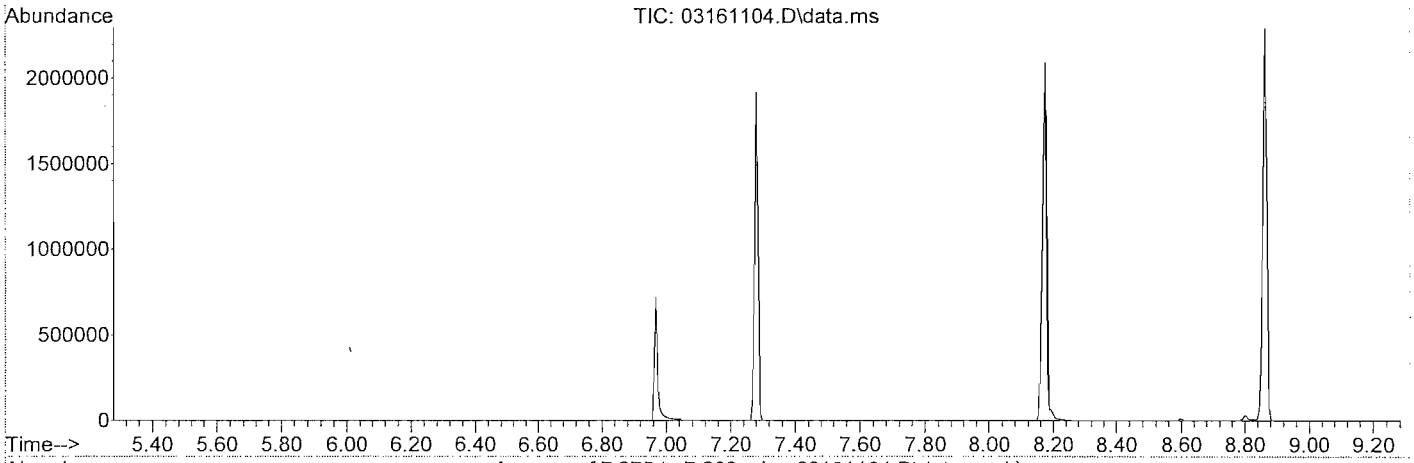
Date Analyzed: 3/17/11 Analyst: a Date Run: 3-16-11

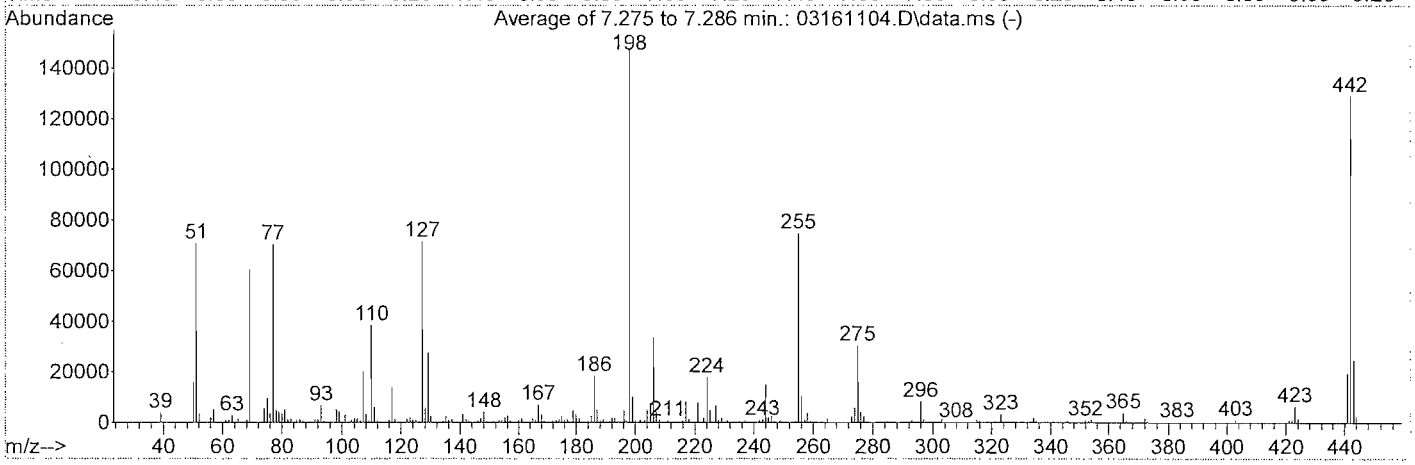
DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161104.D
Acq On : 16 Mar 2011 3:45 pm
Operator : CL
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Thu Feb 17 11:44:41 2011





AutoFind: Scans 951, 952, 953; Background Corrected with Scan 946

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.8	70538	PASS
68	69	0.00	2	1.4	851	PASS
69	198	0.00	100	41.0	60376	PASS
70	69	0.00	2	0.5	304	PASS
127	198	40	60	48.4	71312	PASS
197	198	0.00	1	0.5	768	PASS
198	198	100	100	100.0	147437	PASS
199	198	5	9	6.8	10036	PASS
275	198	10	30	20.5	30203	PASS
365	198	1	100	2.5	3730	PASS
441	443	0.01	100	78.5	19368	PASS
442	198	40	100	87.4	128890	PASS
443	442	17	23	19.1	24671	PASS

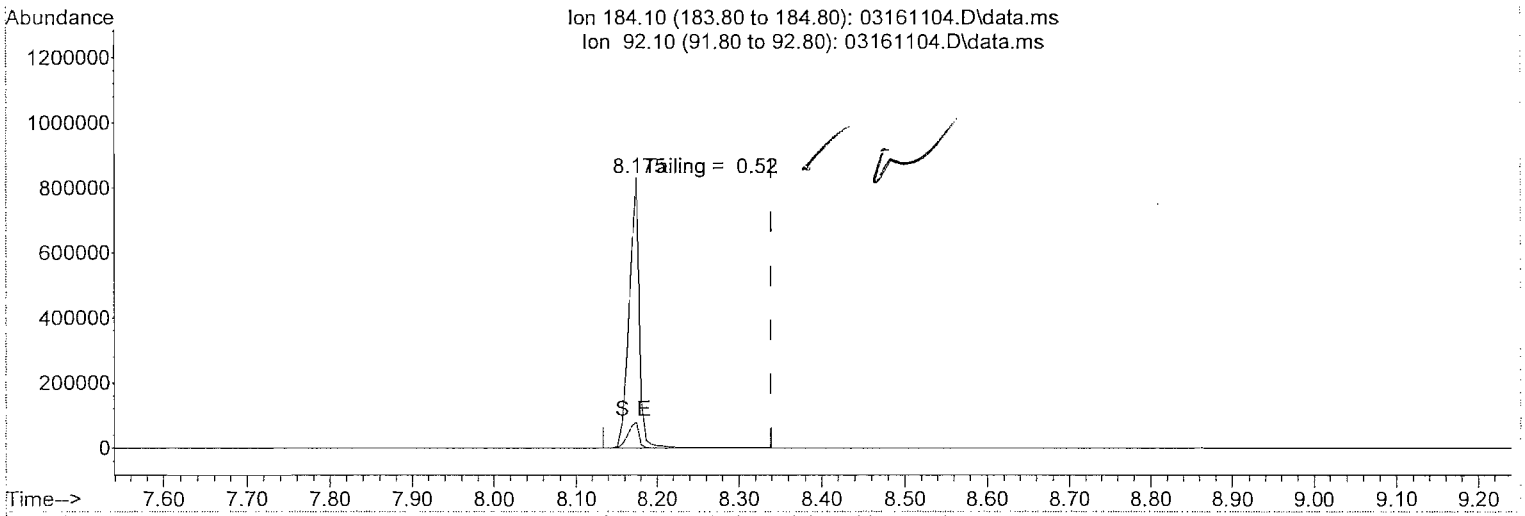
03-18-11

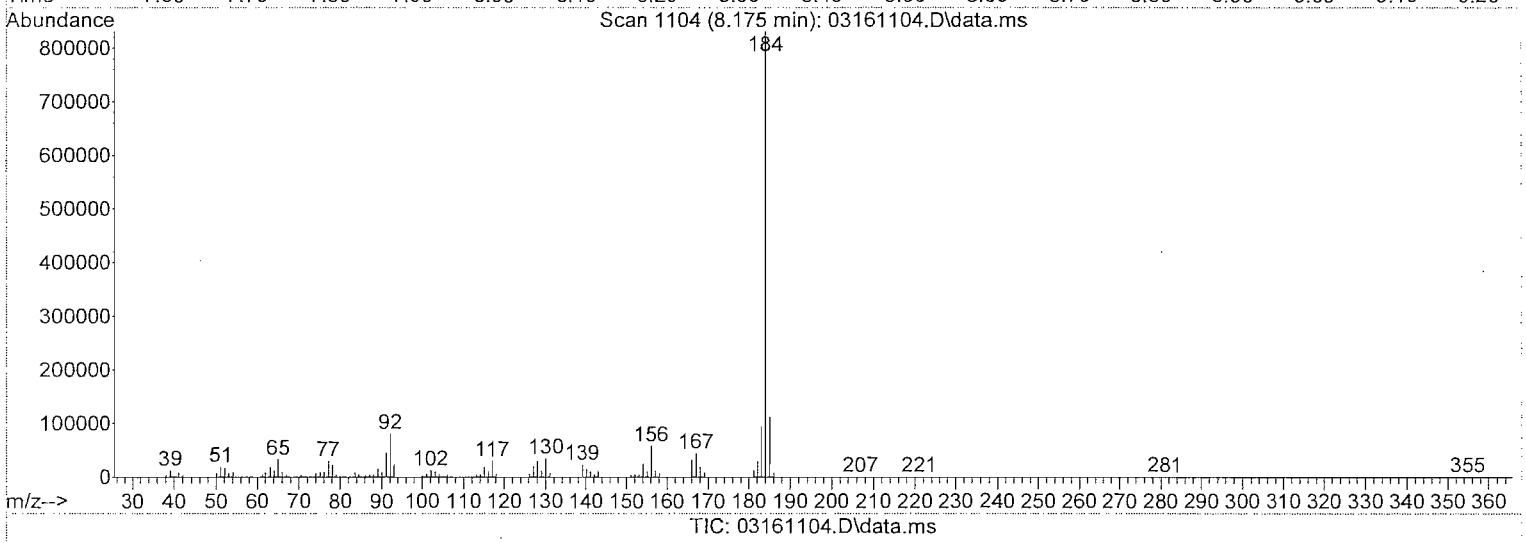
3/21/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161104.D
Acq On : 16 Mar 2011 3:45 pm
Operator : CL
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 18 18:23:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
QLast Update : Thu Feb 17 11:44:41 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D





(2) Benzidine

8.175min (-0.164) 9.22

response 724239

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.38
0.00	0.00	0.00
0.00	0.00	0.00

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:19:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

a-3-18-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.698	96	236131	20.00 ug/mL	-0.05
3) 1,4-Dichlorobenzene-d4	5.992	152	205085	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	345840	9.41 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.751	88	128882	10.73 ug/mL	98
4) 1,4-Dichlorobenzene	6.010	146	352026	10.44 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.328	70	235737	9.62 ug/mL	99

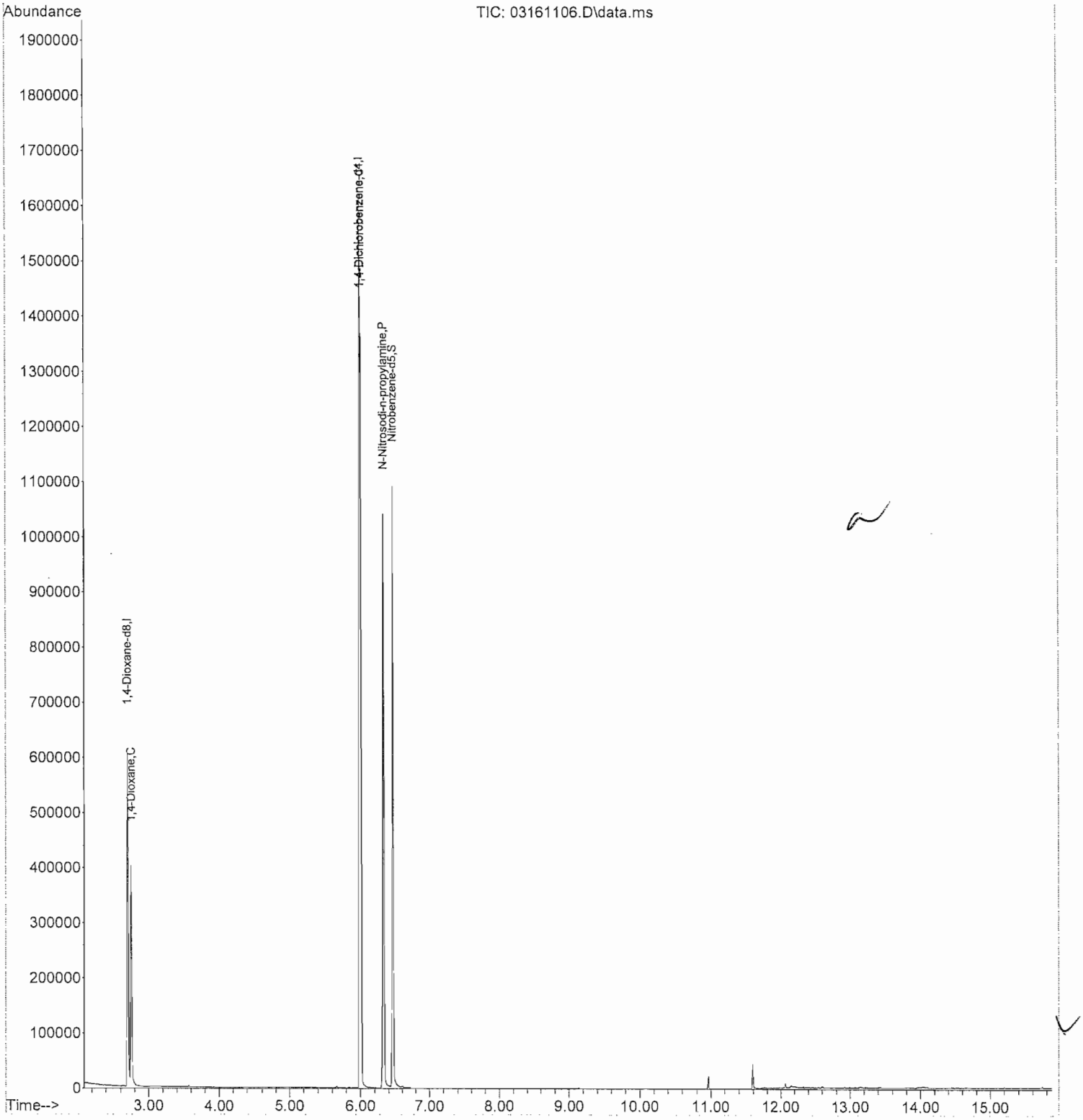
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:19:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.746	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.793	1.017	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	6.010	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	6.028	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.345	1.056	A	1	A	B
6	S	Nitrobenzene-d5	82	6.481	1.078	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

010511D.M Wed Mar 16 19:20:09 2011

3-18-11

3/21/11

Evaluate Continuing Calibration Report

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:19:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 400%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dioxane-d8	1.000	1.000	0.0	72	-0.05
2	C	1,4-Dioxane	1.018	1.092	-7.3	75	-0.04
3	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	-0.02
4	C*	1,4-Dichlorobenzene	1.644	1.716	-4.4	87	-0.02
5	P	N-Nitrosodi-n-propylamine	1.195	1.149	3.8	77	-0.02
6	S	Nitrobenzene-d5	1.792	1.686	5.9	76	-0.02

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

3-18-11

3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03161106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 16:37
Misc Info CCV
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.M

	CCV RESPONSE	**ICAL** RESPONSE	0.5X	2X	**PASS/FAIL**
Internal Standard					
1,4-Dichlorobenzene-d4	205085	243008	121504	486016	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	6.09	5.59	6.59	<-PASS

a 3-18-11

3/21/11

3/16/2011 7:20 PM

Sample Name 10ug/mL 14-diox-01520
Data File Name 03161106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 16:37
Misc Info CCV
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\

	NAME	RT	CCV RRT Value (Target/IS)	mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.698					
	1,4-Dioxane	2.751	1.0196	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	5.992					
	1,4-Dichlorobenzene	6.010	1.0029	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.328	1.0559	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.463	1.0785	1.0763	1.0163	1.1363	<-PASS

3-18-11

3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03161106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 16:37
Misc Info CCV
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	205085	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

Daily update
a 3-18-11

A 3/21/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 12:58:11 2011
Response Via : Continuing Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	20	10	D:\msdchem\1\GCMS14\DATA\031611\03161106.D
2	CC	20	10	D:\msdchem\1\GCMS14\DATA\031611\03161106.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 21 12:57 2011	Mar 21 12:57 2011	16 Mar 2011 4:37 pm
2	CC	Mar 21 12:58 2011	Mar 21 12:57 2011	16 Mar 2011 4:37 pm

031611_D8.M Mon Mar 21 12:58:22 2011

3-21-11

3/21/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥
Method File : 031611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 12:58:11 2011
Response Via : Continuing Calibration

Calibration Files
1 =03161106.D

	Compound	1	Avg	%RSD
1) I	1,4-Dichlorobenzen...	----------ISTD----------		
2)	1,4-Dioxane-d8	0.576	0.576	0.00

(#) = Out of Range

03-21-11

M 3/21/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 12:58:11 2011
Response Via : Continuing Calibration

Total Cpnds : 2

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	1,4-Dichlorobenzene-d4	152	5.992	1.000	A	0	A	B
2	1,4-Dioxane-d8	96	2.698	0.450	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031611_D8.M Mon Mar 21 12:58:39 2011

3/21/11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 12:58:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	205085	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.698	96	236131	20.00 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

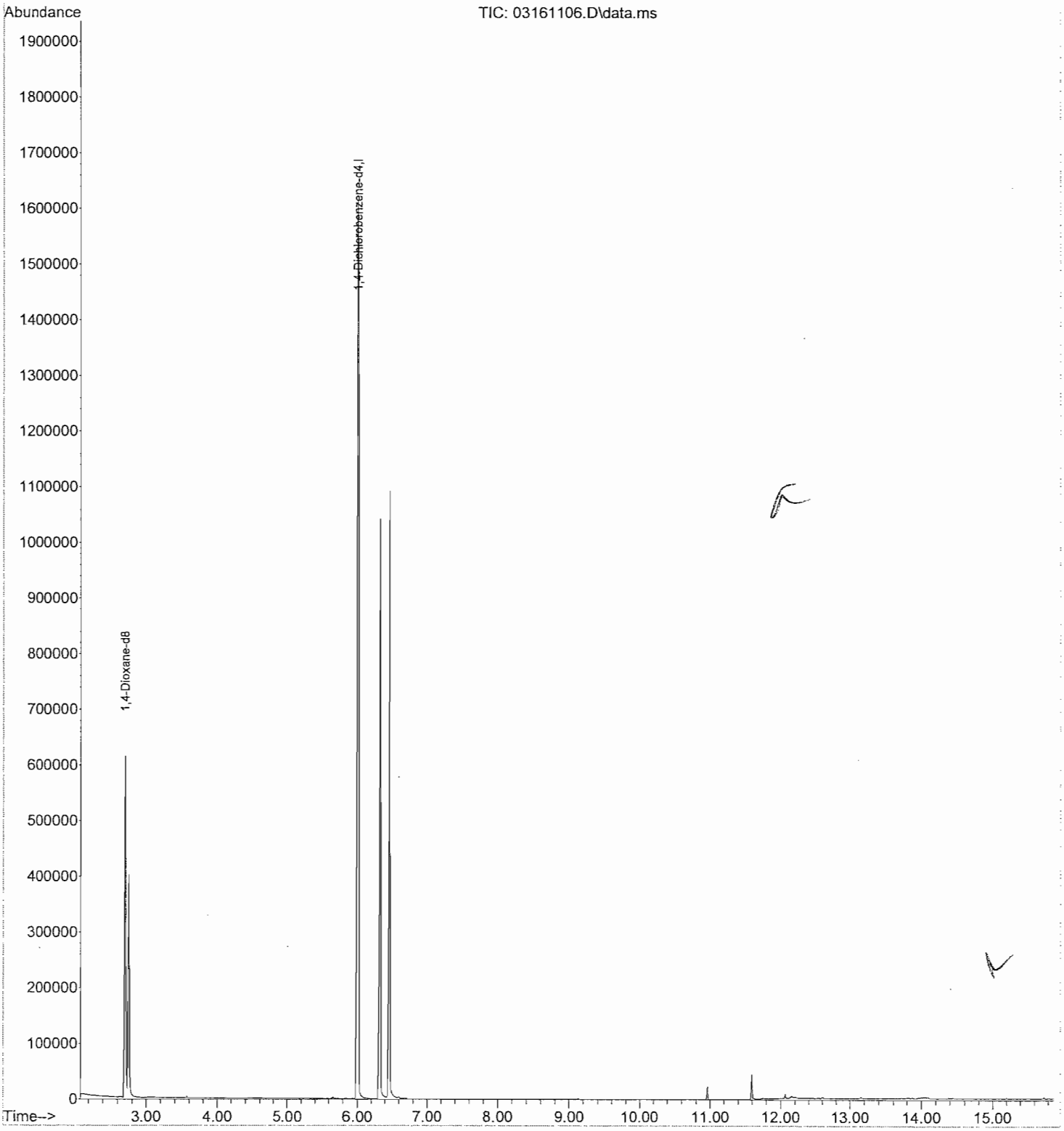
update
03-21-11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 12:58:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D



Quantitation Report (Not Reviewed)

03-18-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 10:06:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.793	96	179535	20.00 ug/mL	0.05
3) 1,4-Dichlorobenzene-d4	5.993	152	214464	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	604425	15.73 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.734	88	53	0.01 ug/mL#	1
4) 1,4-Dichlorobenzene	6.004	146	720	0.02 ug/mL#	1

MD

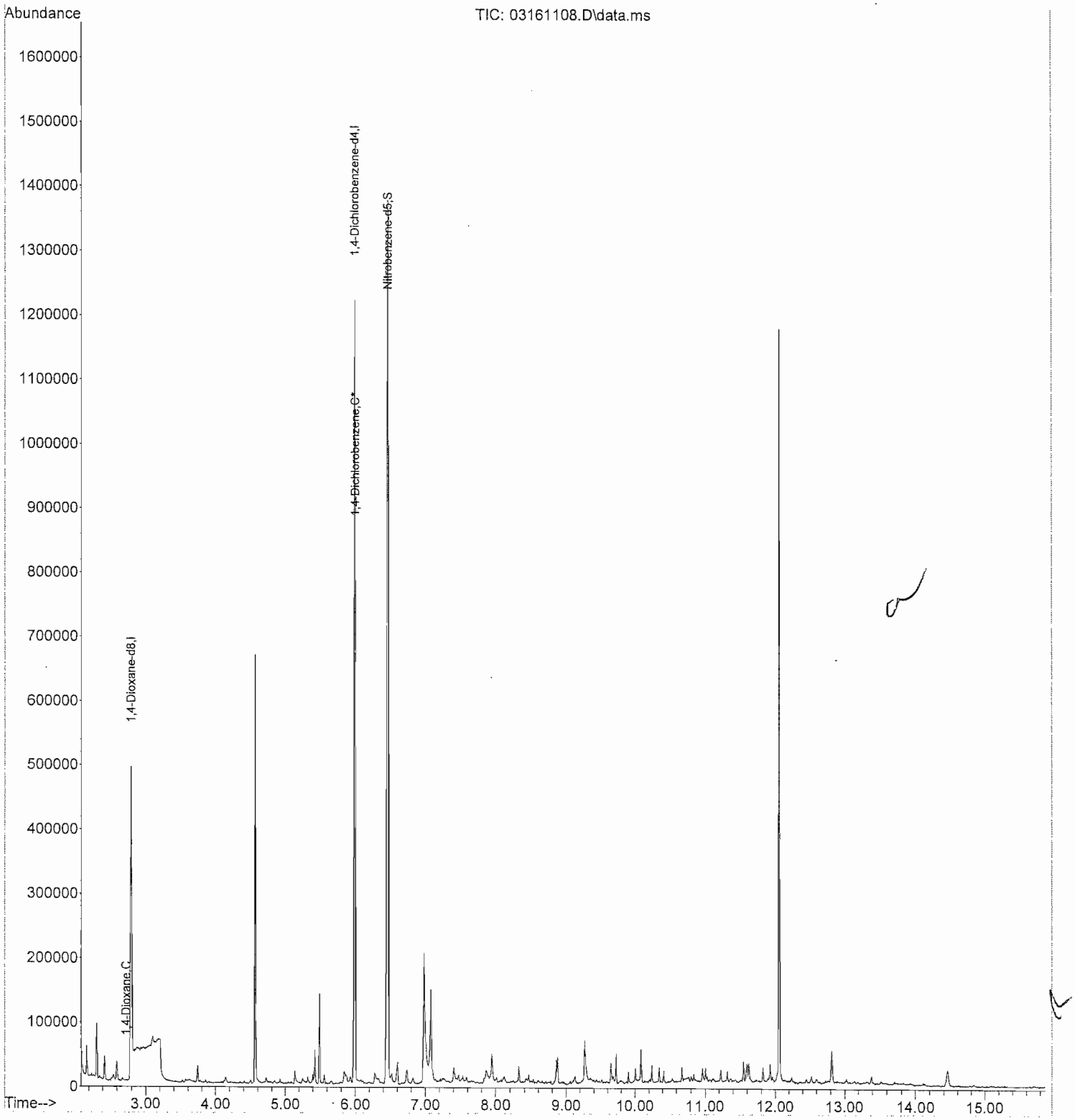
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 10:06:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0526-BLK1
Data File Name 03161108.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 18:31
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	214464	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

3/17/2011 10:15 AM

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 21 13:01:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D

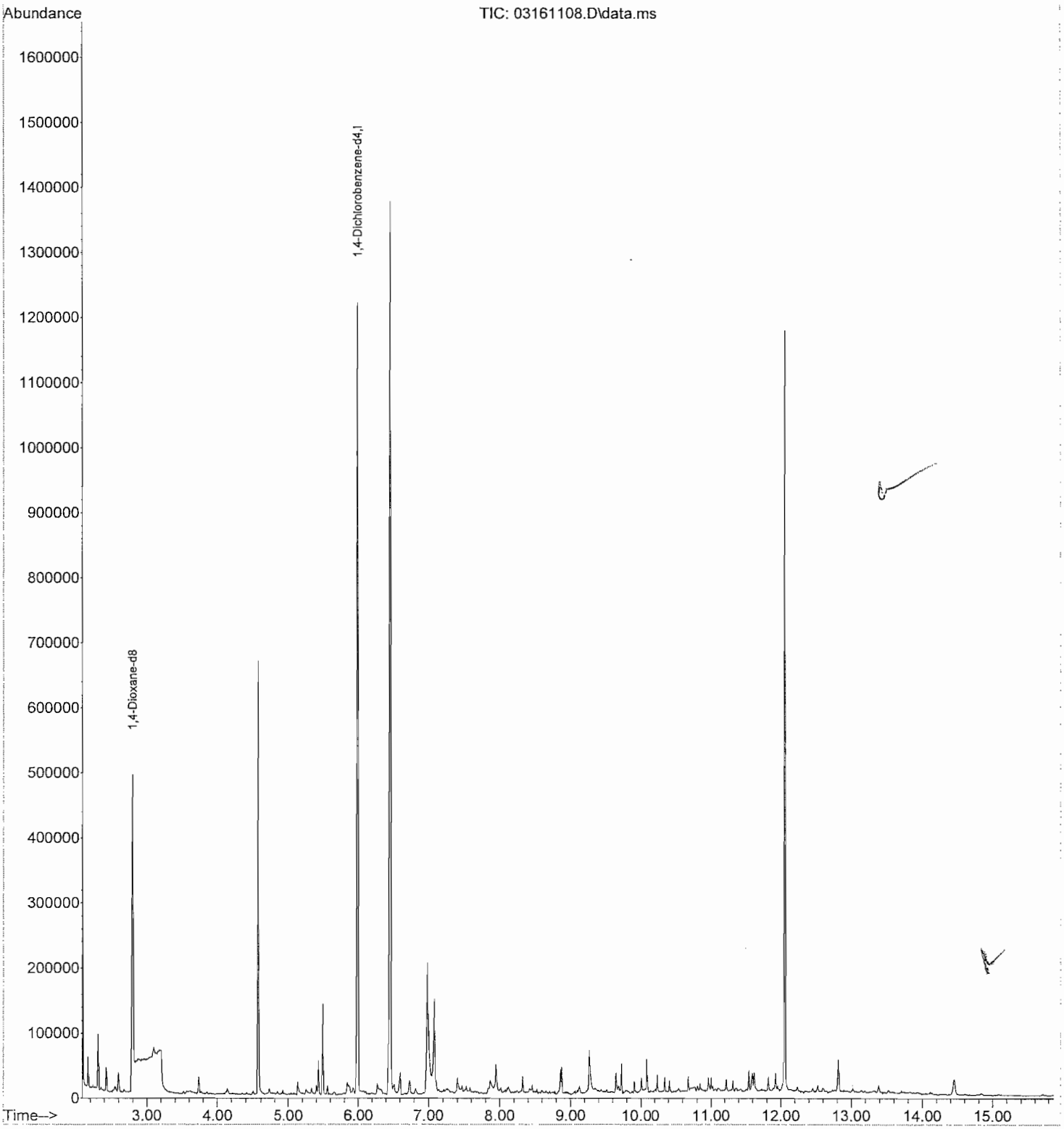
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.993	152	214464	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.793	96	179535	14.54 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 21 13:01:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D



Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:23:39 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

mnr21

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.852	96	162348m	20.00 ug/mL	0.11
3) 1,4-Dichlorobenzene-d4	5.992	152	218822	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	582739	14.86 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.910	88	172534m	20.88 ug/mL	
4) 1,4-Dichlorobenzene	6.004	146	619	0.02 ug/mL#	1

G 3/18/11

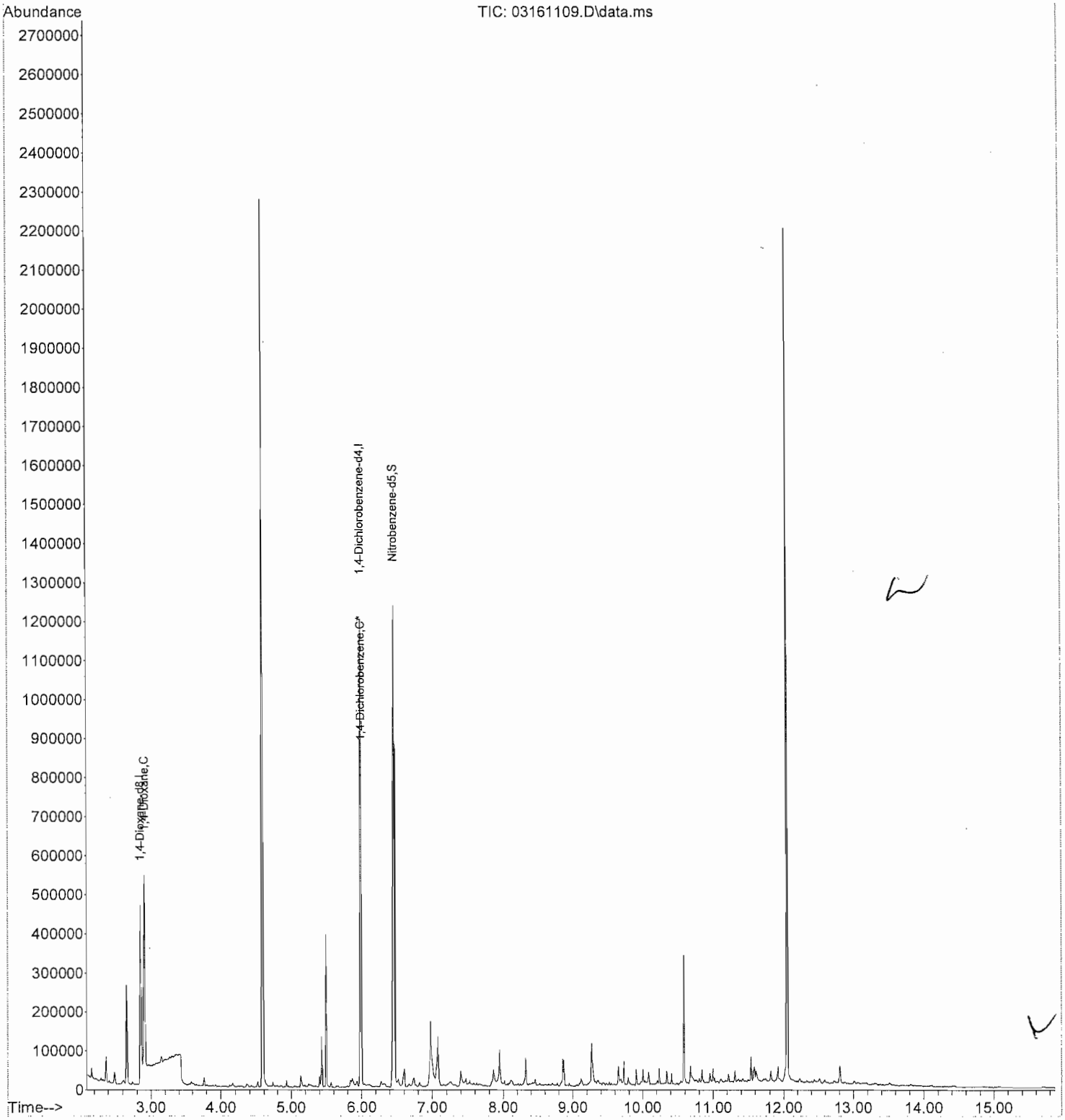
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

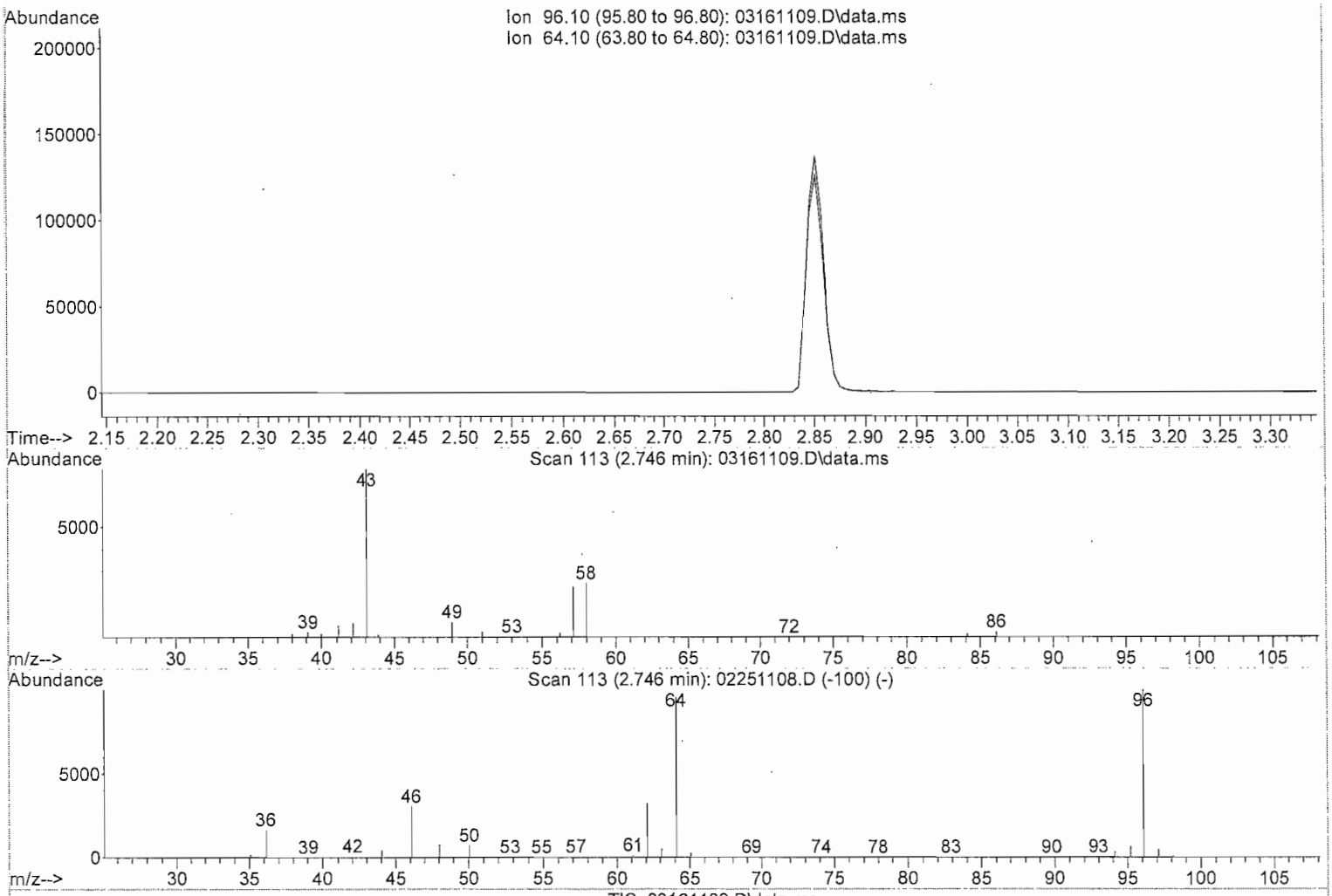
Quant Time: Mar 17 10:23:39 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



(1) 1,4-Dioxane-d8 (I)

2.746min (-2.746) 0.00ug/mL

response 0

Ion	Exp%	Act%
96.10	100	0.00
64.10	93.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

B

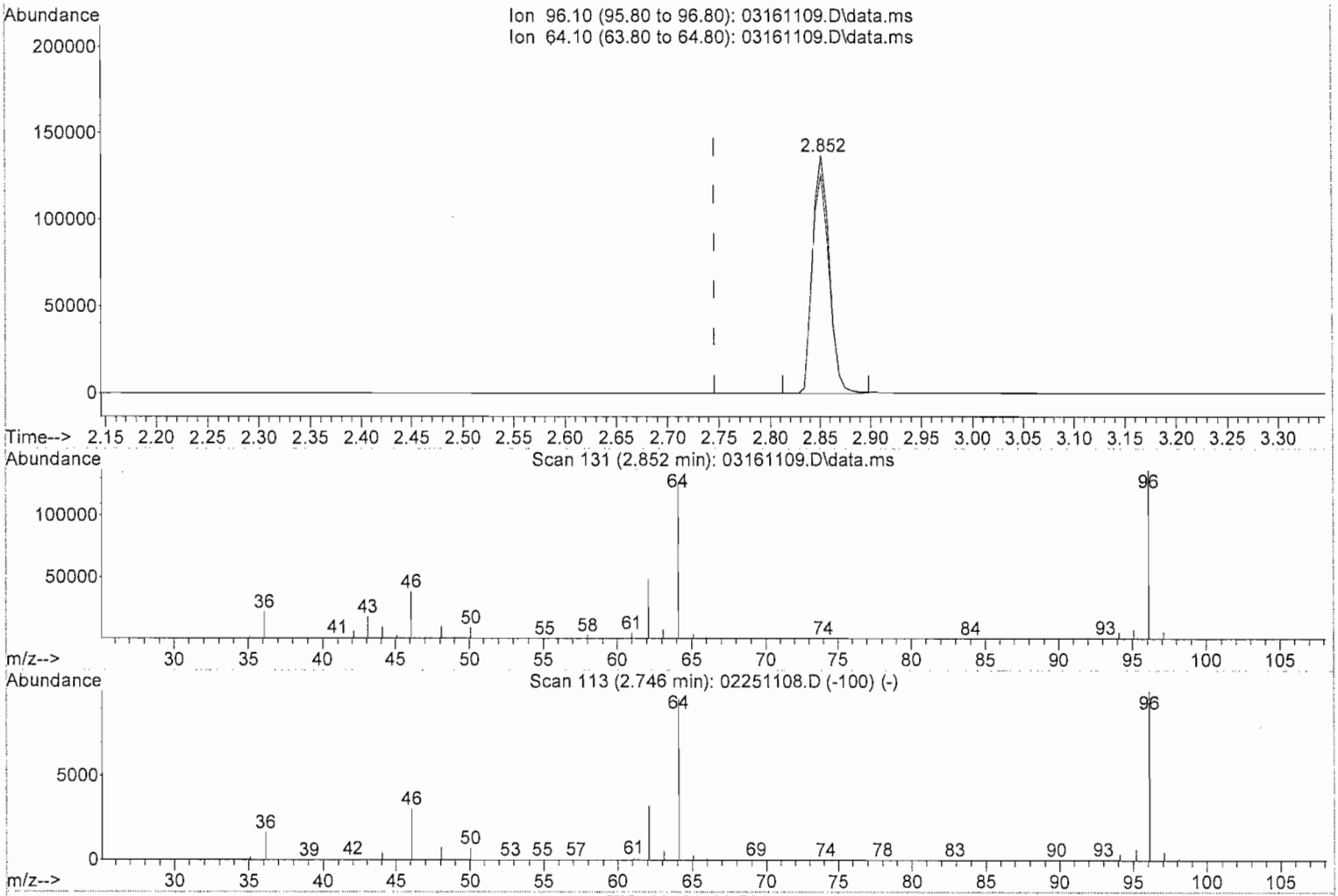
ID 03-18-11

A 3/21/11

Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



(1) 1,4-Dioxane-d8 (I)

2.852min (+0.106) 20.00ug/mL m

response 162348

Ion	Exp%	Act%
96.10	100	100
64.10	93.60	92.65
0.00	0.00	0.00
0.00	0.00	0.00

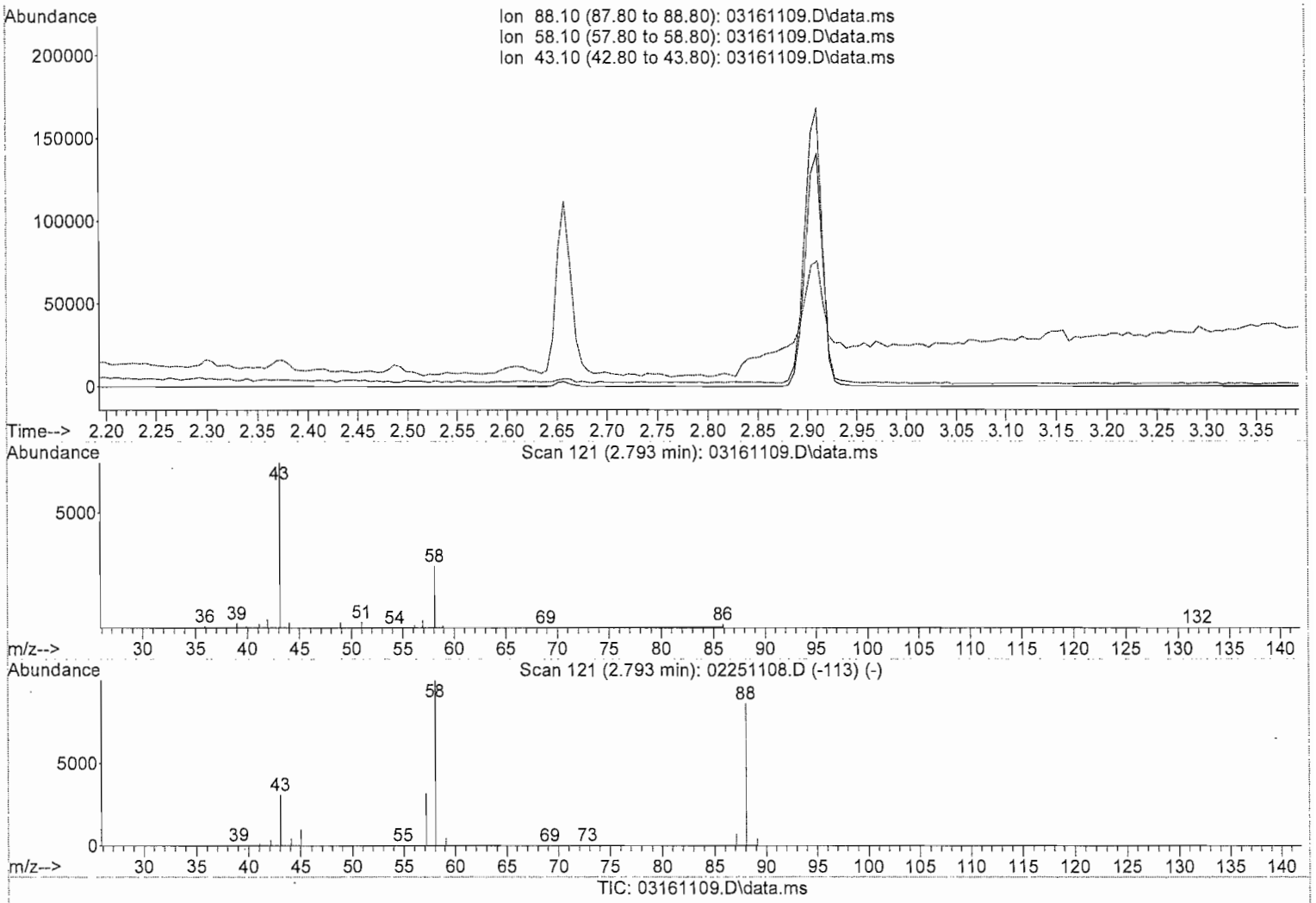
A
a 3-18-11

3/21/11

Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.793min (-2.793) 0.00ug/mL

response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	112.80	0.00#
43.10	35.80	0.00#
0.00	0.00	0.00

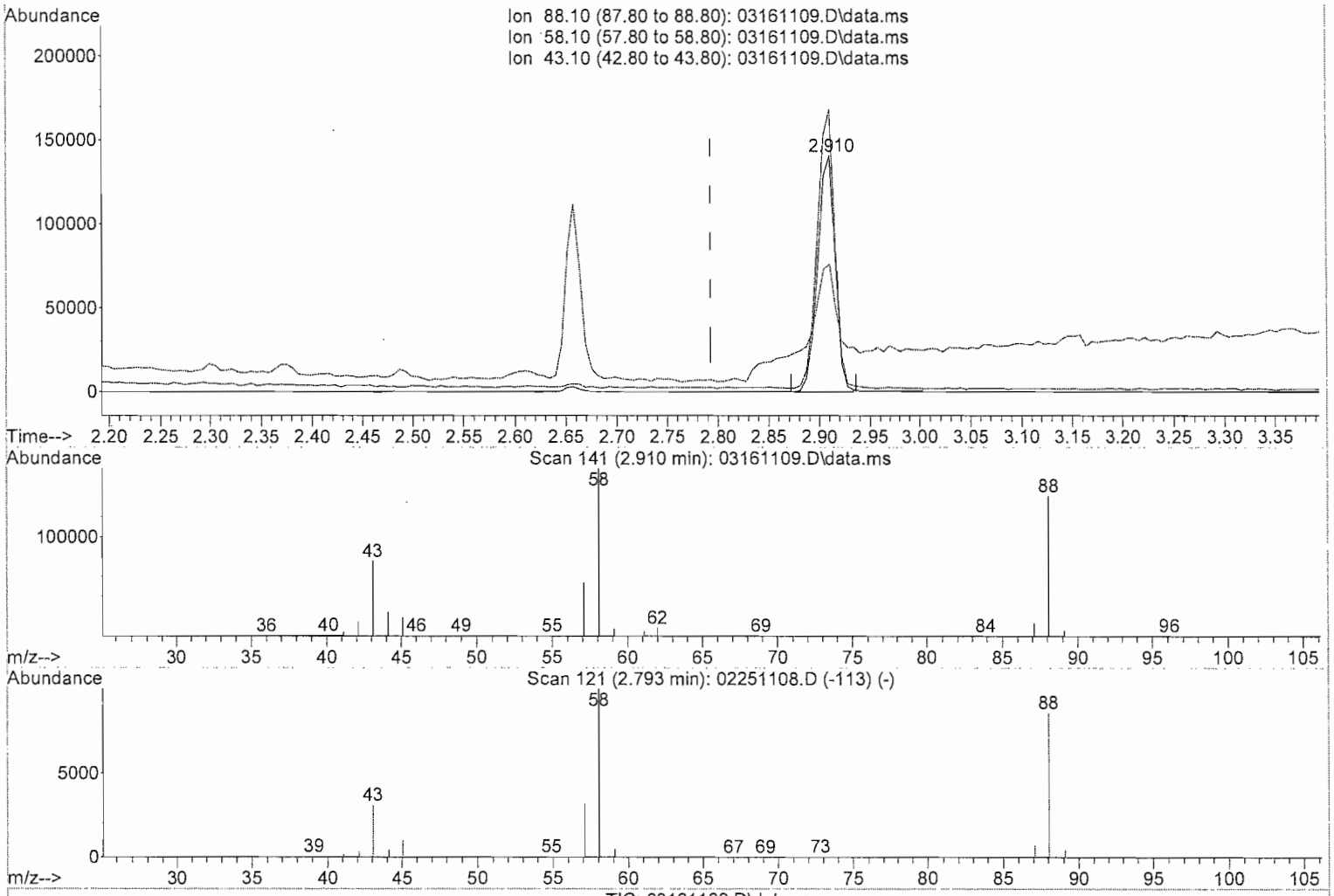
ID B 03-18-11

3/21/11

Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.910min (+0.118) 20.88ug/mL m

response 172534

Ion	Exp%	Act%
88.10	100	100
58.10	112.80	119.81
43.10	35.80	41.38
0.00	0.00	0.00

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3/21/11

Sample Name 11C0526-BS1
Data File Name 03161109.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 18:58
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	218822	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

3/17/2011 10:15 AM

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 13:07:07 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	218822	10.00 ug/mL	0.00
Target Compounds					**Qvalue**
2) 1,4-Dioxane-d8	2.85	96	162343m	✓12.89 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

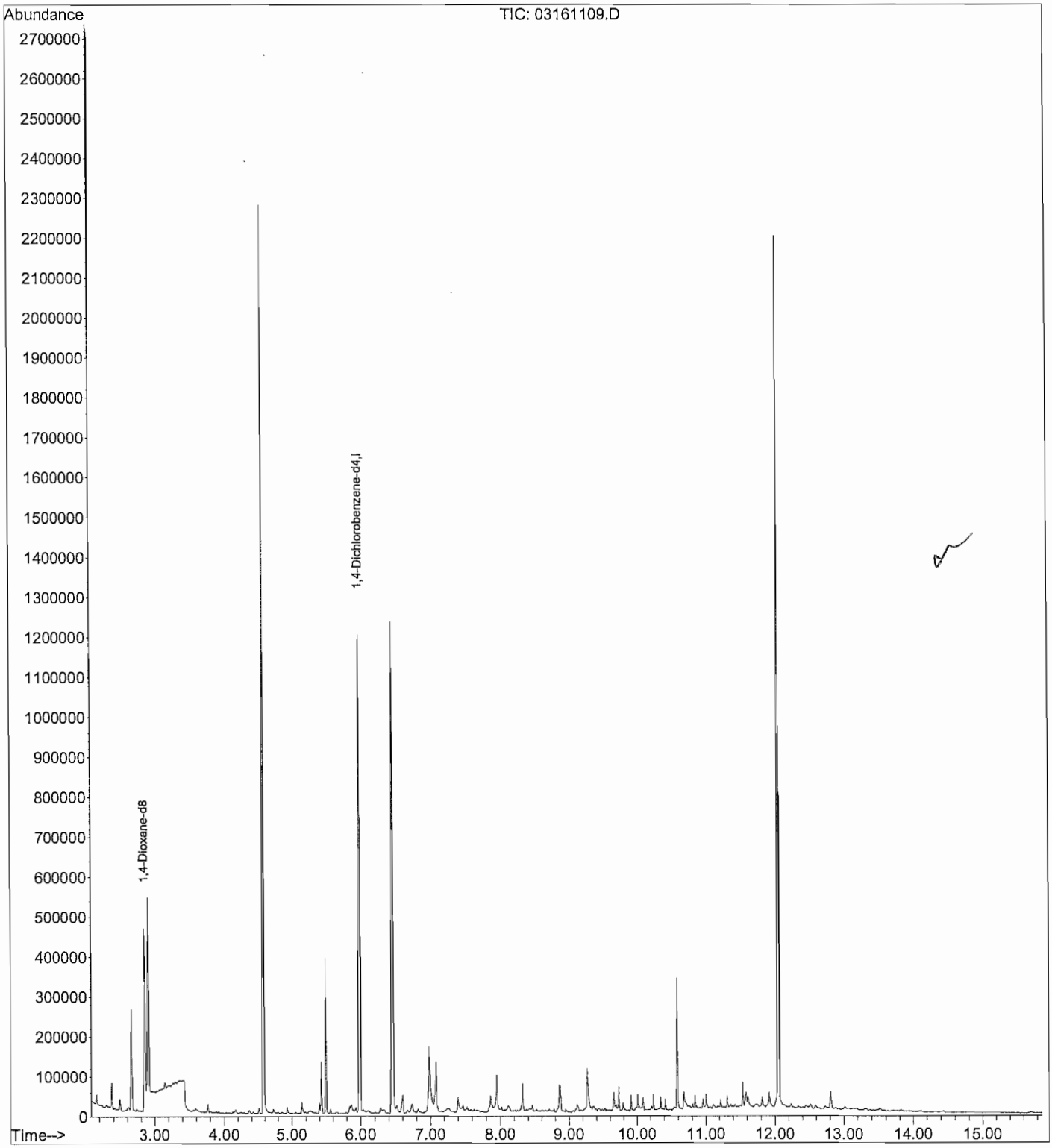
03/21/11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

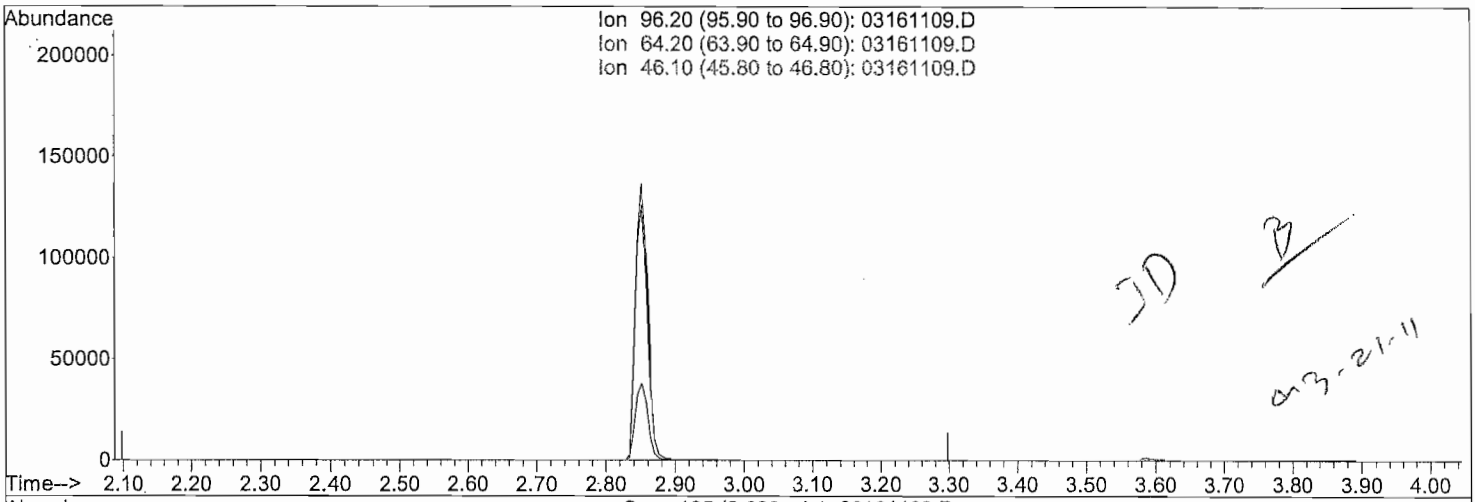
Quant Time: Mar 21 13:07:07 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D



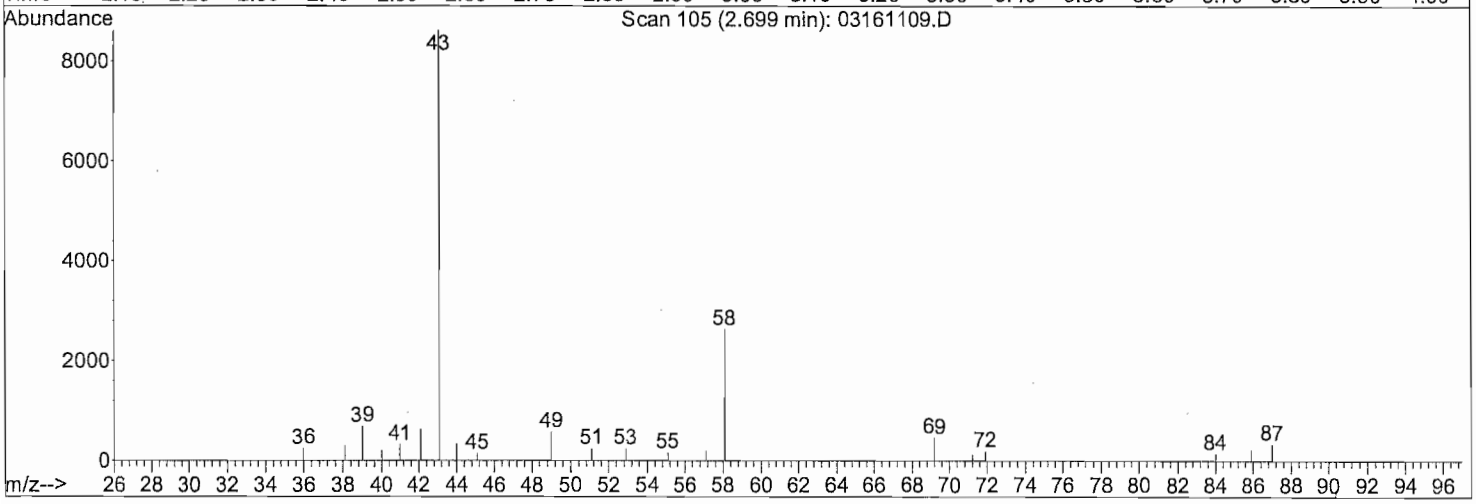
Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 13:01:43 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D



3D B 03-21-11



TIC: 03161109.D

(2) 1,4-Dioxane-d8

2.698min (-2.698) 0.00ug/mL

response 0

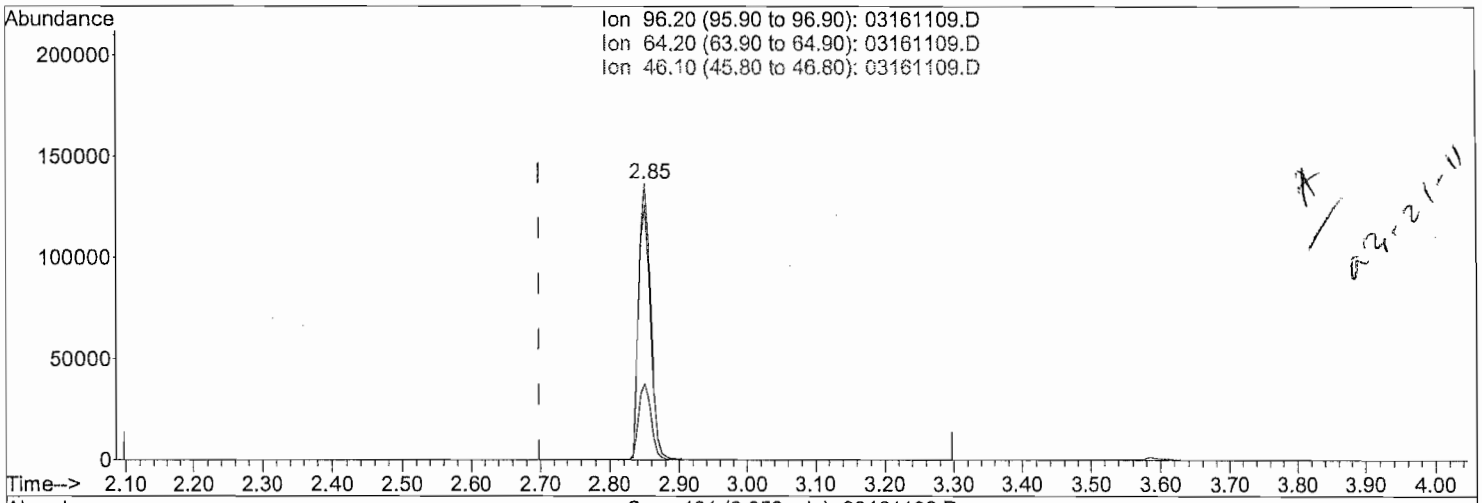
Ion	Exp%	Act%
96.20	100	0.00
64.20	93.80	0.00#
46.10	29.30	0.00#
0.00	0.00	0.00

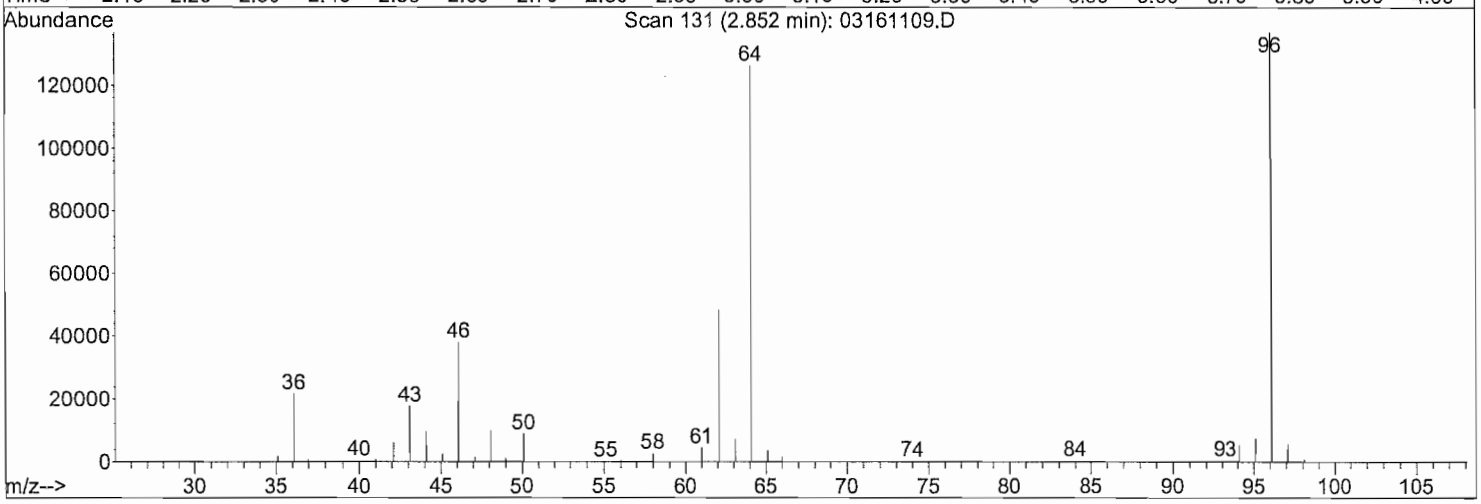
L 3/21/11

Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 13:01:43 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161109.D

(2) 1,4-Dioxane-d8

2.852min (+0.153) 12.89ug/mL m

response 162343

Ion	Exp%	Act%
96.20	100	100
64.20	93.80	92.87
46.10	29.30	28.99
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 10:06:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

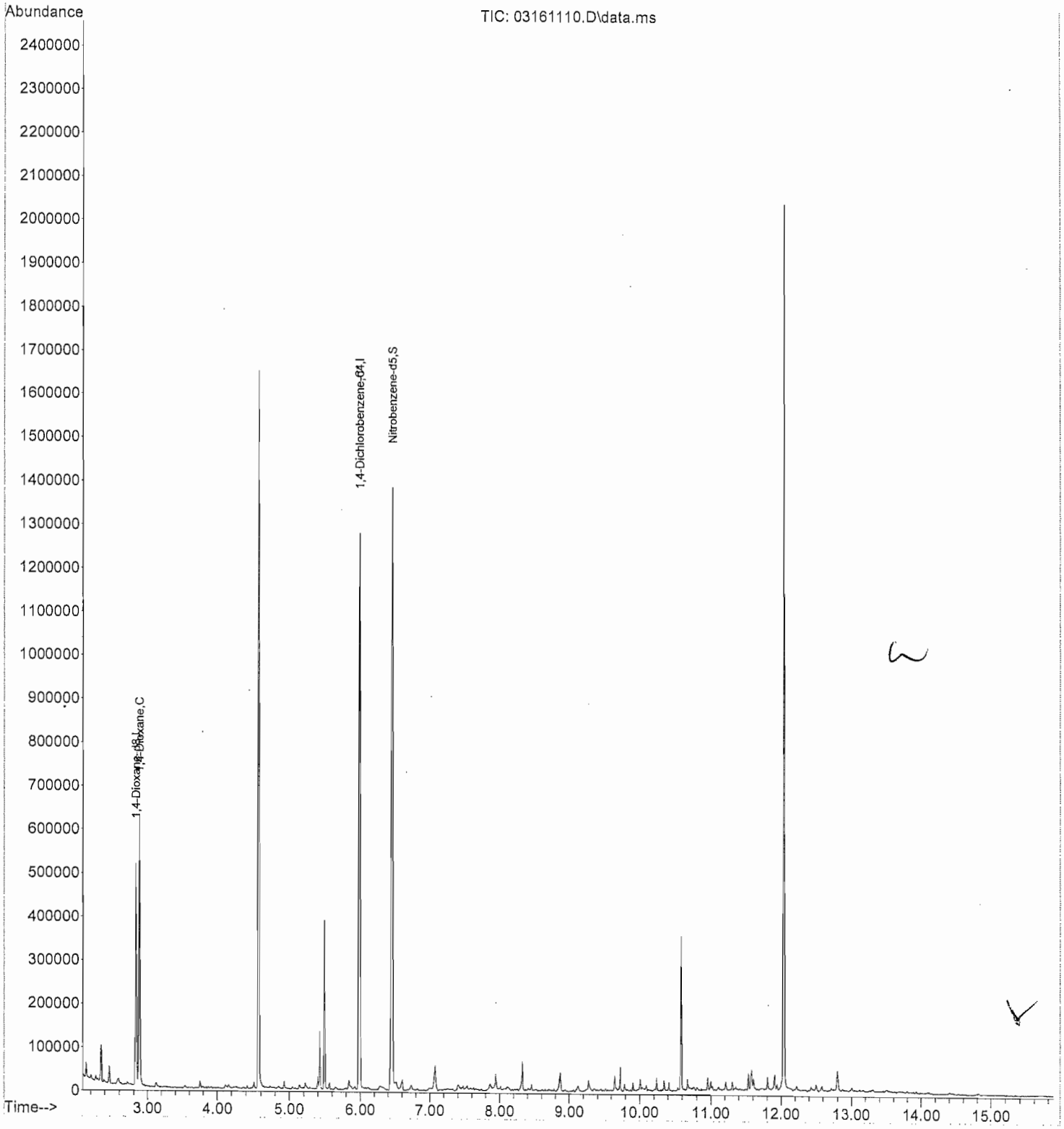
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.828	96	185840	20.00 ug/mL	0.08
3) 1,4-Dichlorobenzene-d4	5.993	152	227729	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	676248	16.57 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.881	88	196800	20.81 ug/mL	96
4) 1,4-Dichlorobenzene	5.998	146	583	0.02 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 10:06:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0526-BSD1
Data File Name 03161110.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 19:24
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	227729	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 13:08:17 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	227729	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.83	96	185598m	14.16 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

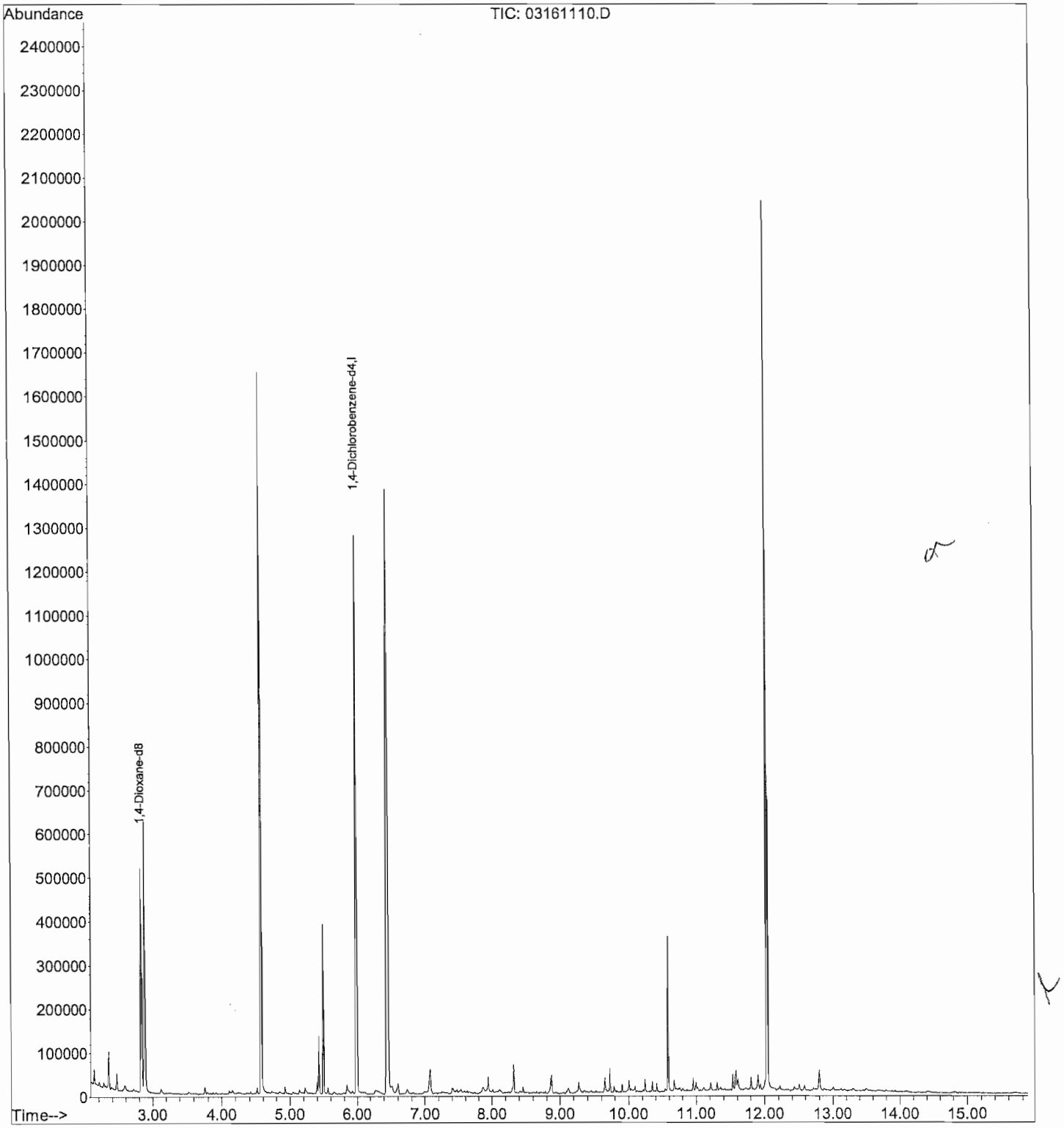
03/21/11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

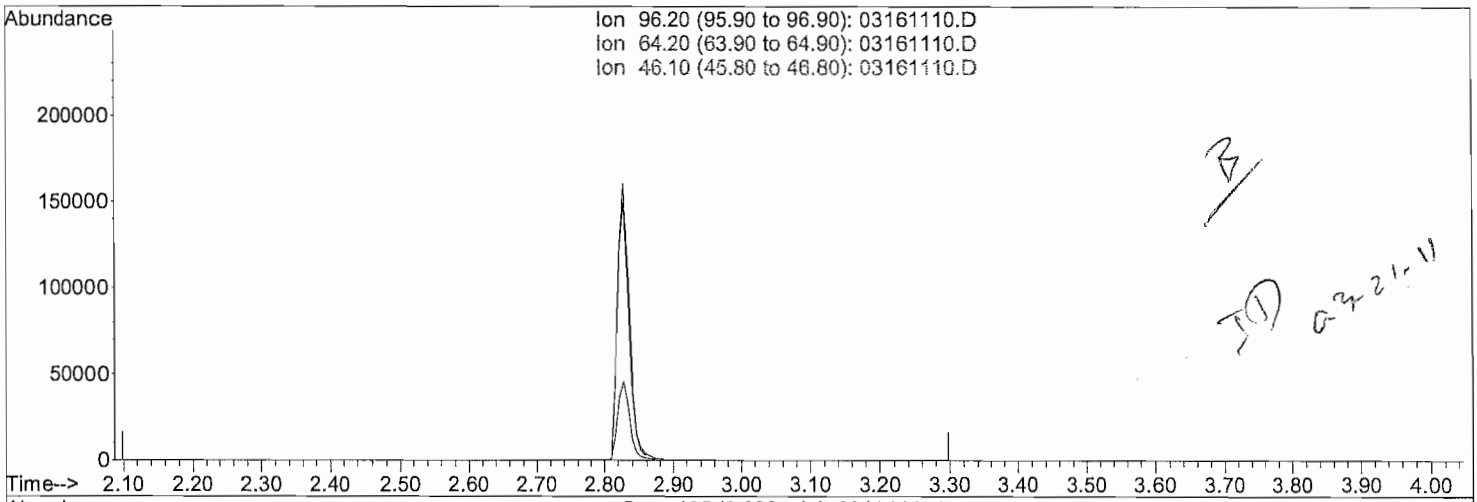
Quant Time: Mar 21 13:08:17 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

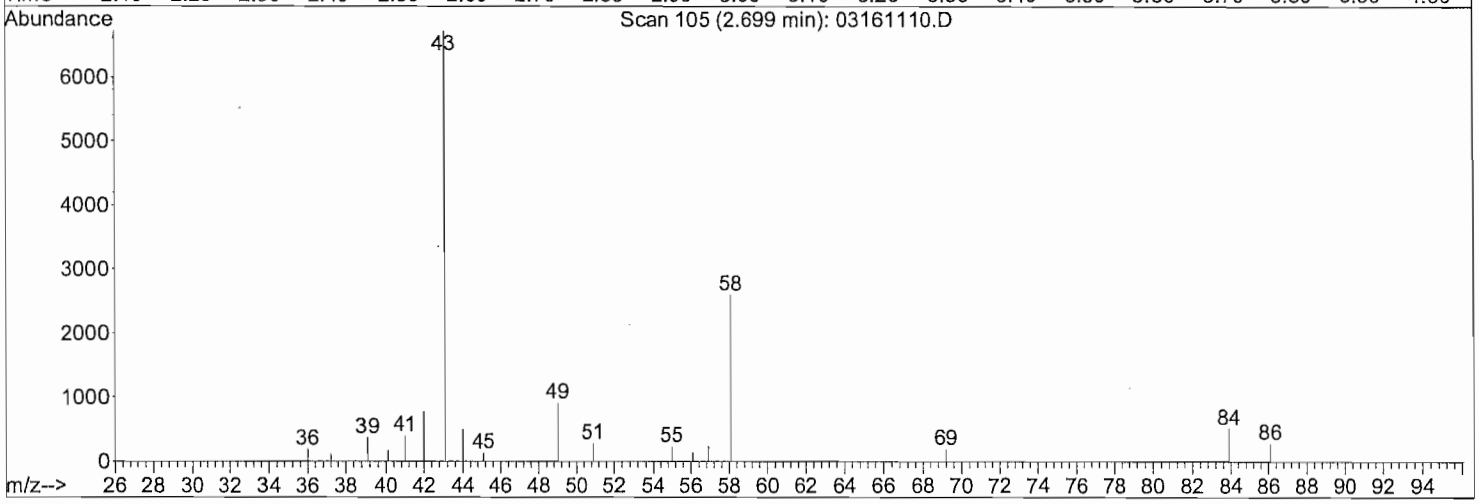


Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 13:01:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161110.D

(2) 1,4-Dioxane-d8

2.698min (-2.698) 0.00ug/mL

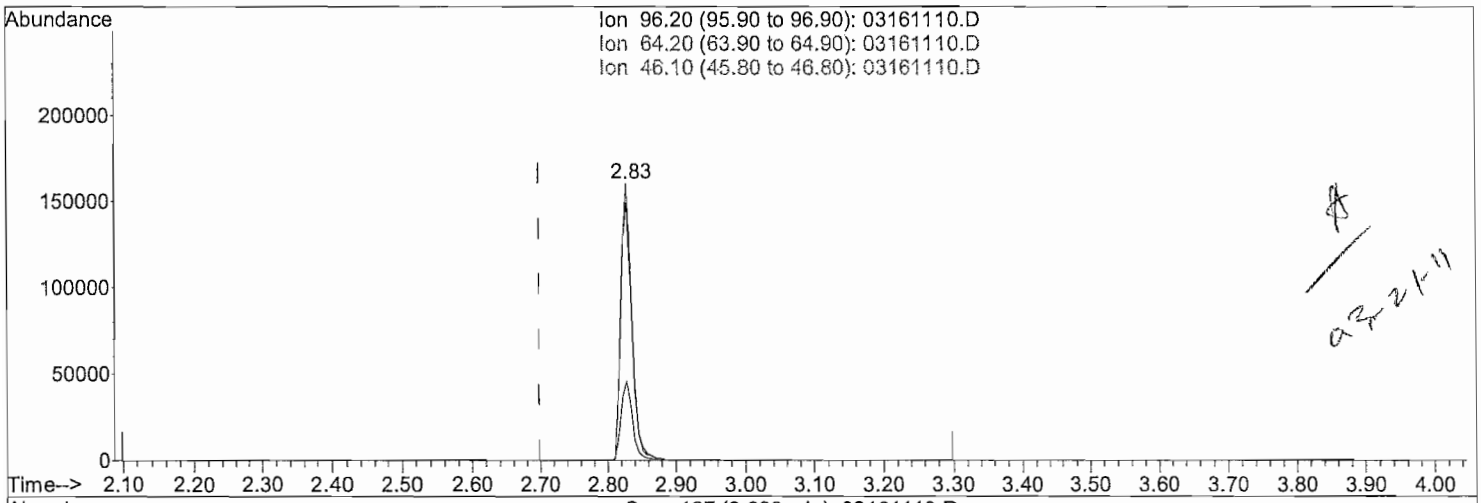
response 0

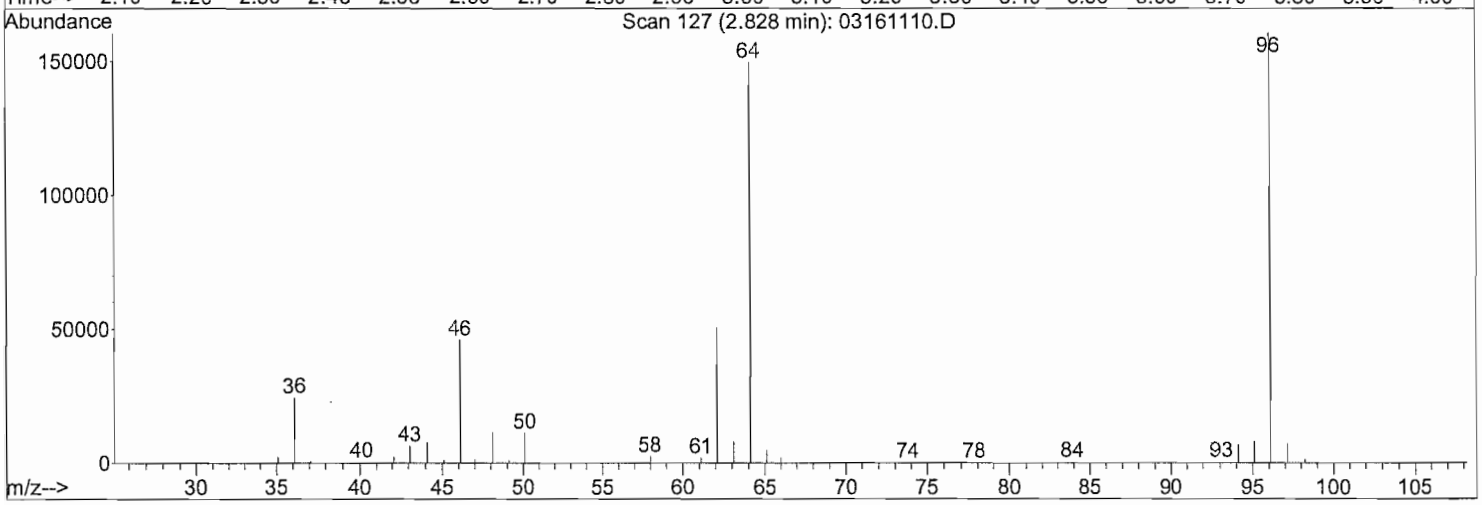
Ion	Exp%	Act%
96.20	100	0.00
64.20	93.80	0.00#
46.10	29.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 13:01:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161110.D

(2) 1,4-Dioxane-d8

2.828min (+0.130) 14.16ug/mL m

response 185598

Ion	Exp%	Act%
96.20	100	100
64.20	93.80	92.28
46.10	29.30	29.37
0.00	0.00	0.00

3/21/11

Quantitation Report (~~Not~~ Reviewed)

03-18-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161111.D
Acq On : 16 Mar 2011 7:51 pm
Operator : CL
Sample : PUC0730-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 17 10:06:25 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.804	96	172035	20.00 ug/mL	0.06
3) 1,4-Dichlorobenzene-d4	5.992	152	227256	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	647579	15.90 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.698	88	59	0.01 ug/mL#	1
4) 1,4-Dichlorobenzene	5.998	146	613	0.02 ug/mL#	1

ND

NT

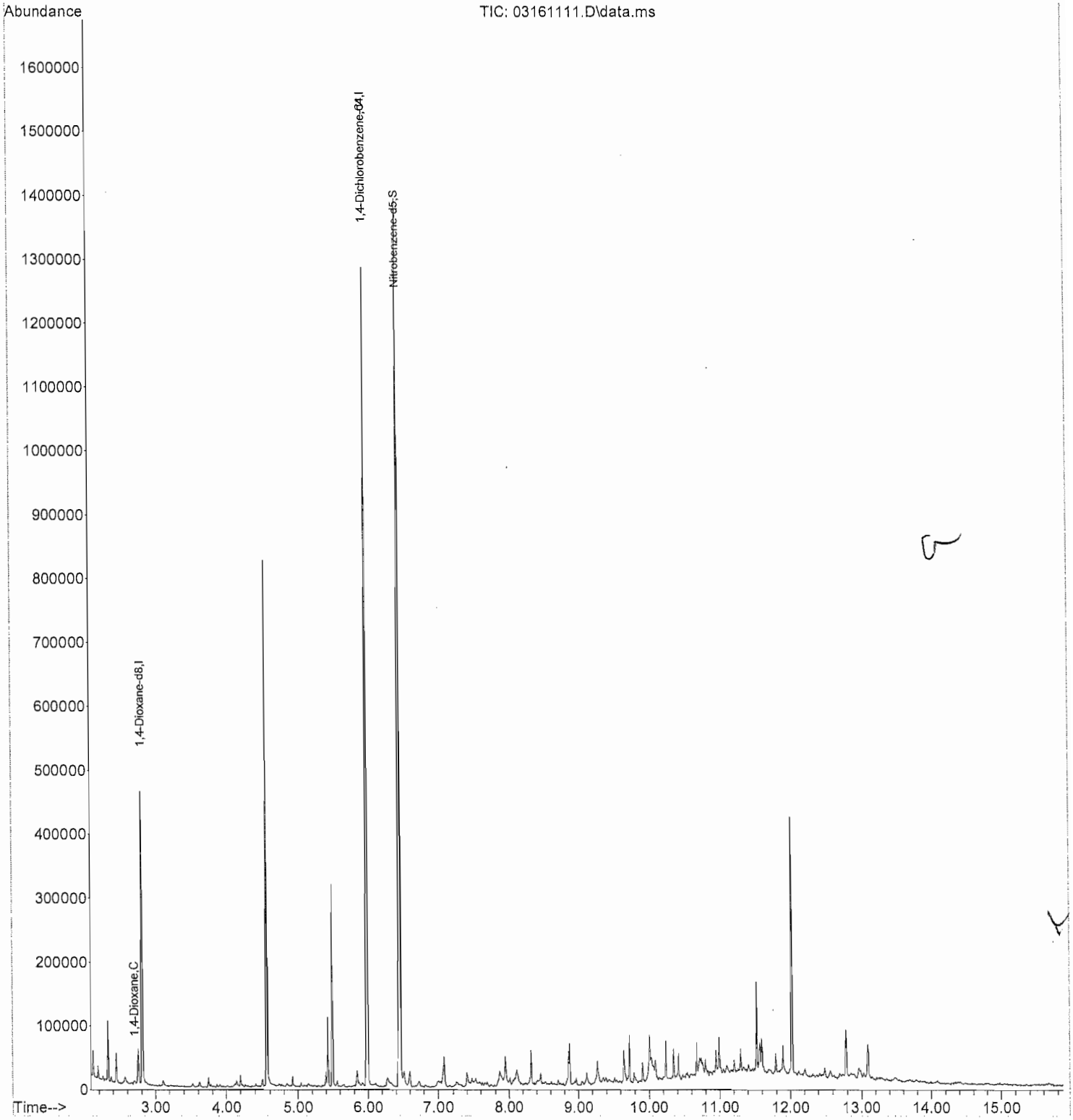
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161111.D
Acq On : 16 Mar 2011 7:51 pm
Operator : CL
Sample : PUC0730-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 17 10:06:25 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name PUC0730-01
Data File Name 03161111.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 19:51
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	227256	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/24/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161111.D
Acq On : 16 Mar 2011 7:51 pm
Operator : CL
Sample : PUC0730-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 21 13:08:53 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	227256	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.80	96	170851m	13.06 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

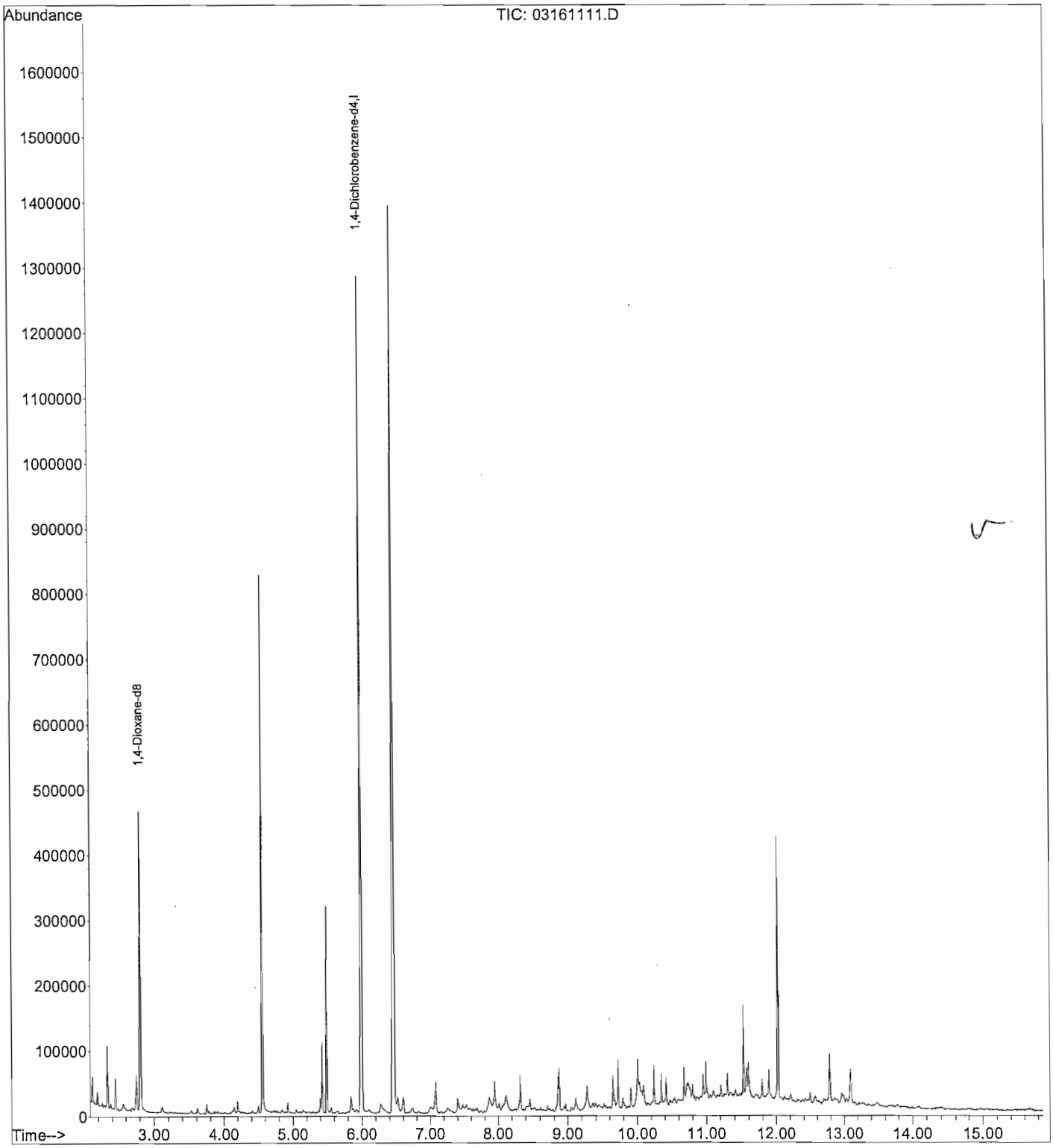
03-21-11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161111.D
Acq On : 16 Mar 2011 7:51 pm
Operator : CL
Sample : PUC0730-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

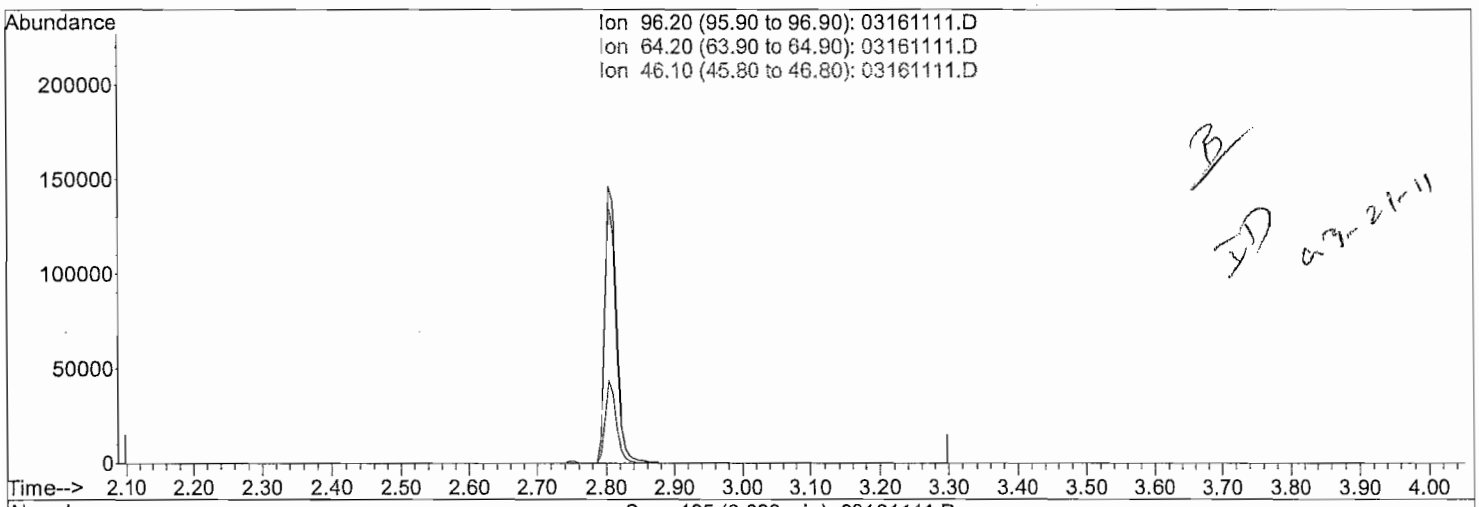
Quant Time: Mar 21 13:08:53 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

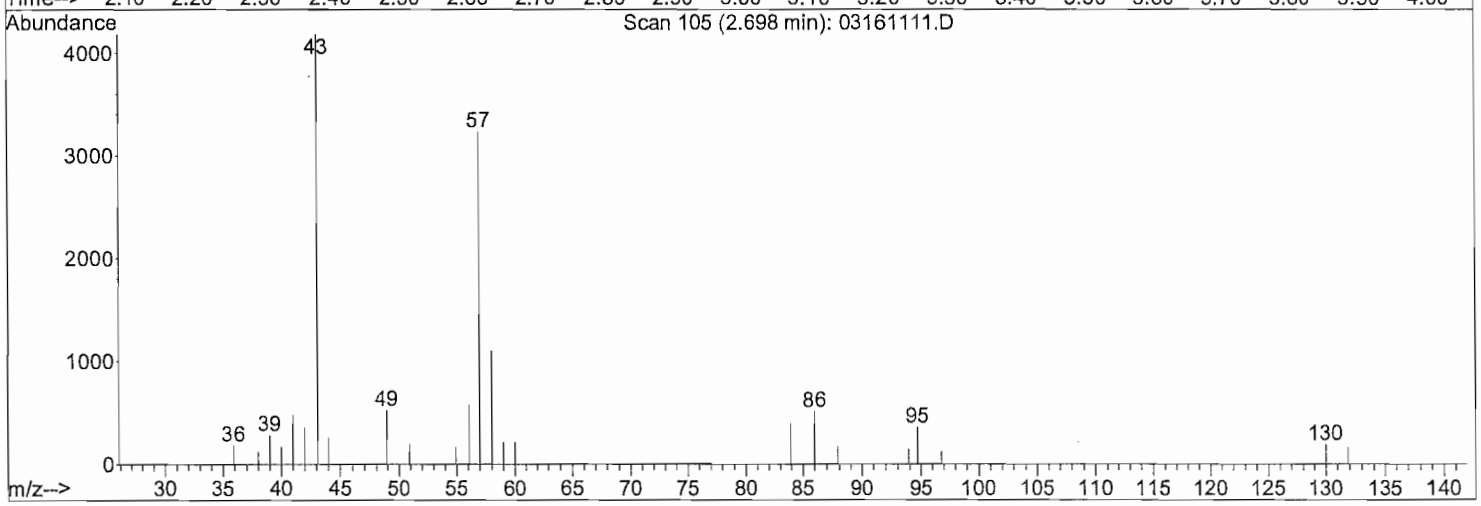


Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161111.D
Acq On : 16 Mar 2011 7:51 pm
Operator : CL
Sample : PUC0730-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 21 13:01:52 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161111.D

(2) 1,4-Dioxane-d8

2.698min (-2.698) 0.00ug/mL

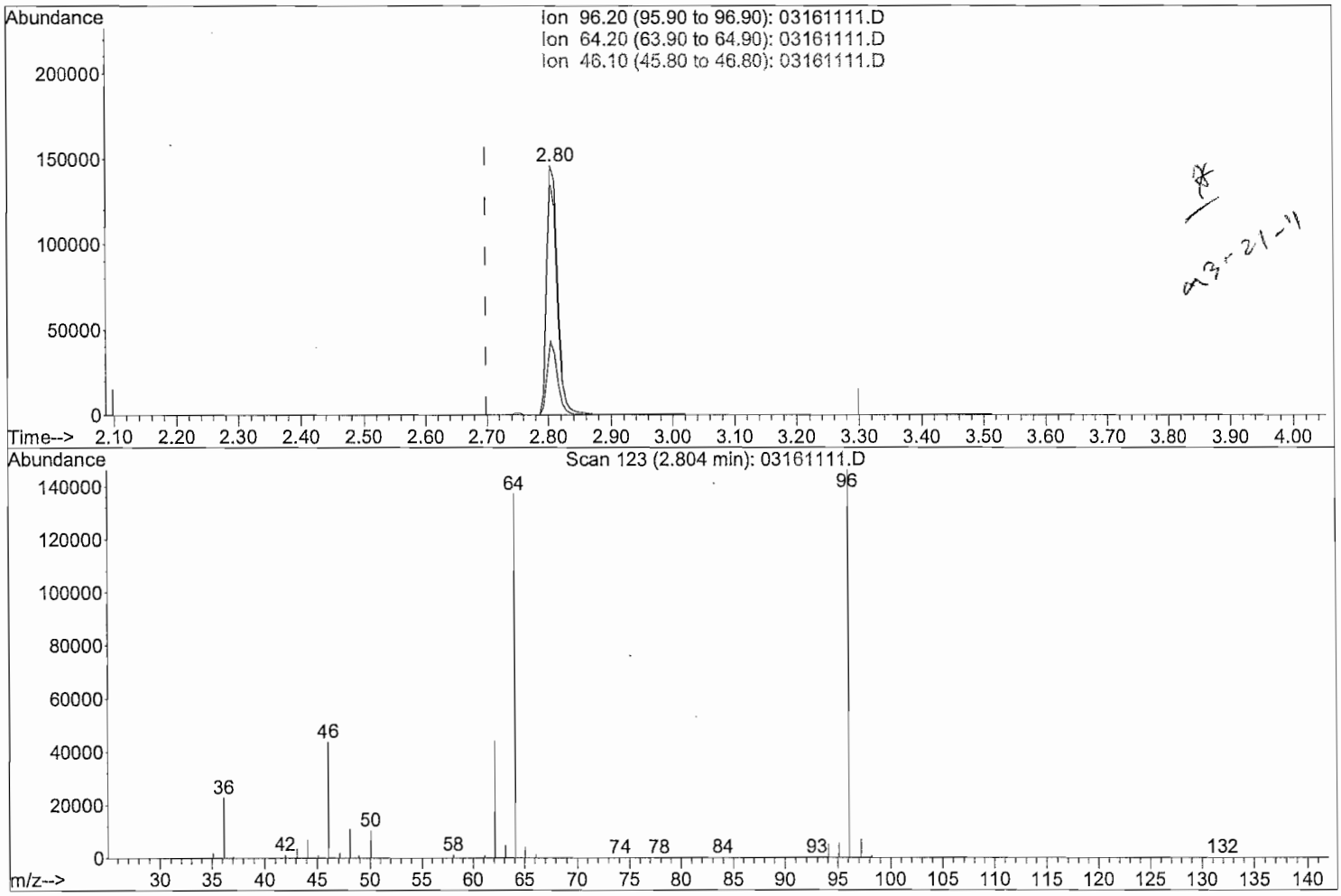
response 0

Ion	Exp%	Act%
96.20	100	0.00
64.20	93.80	0.00#
46.10	29.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161111.D
Acq On : 16 Mar 2011 7:51 pm
Operator : CL
Sample : PUC0730-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 21 13:01:52 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D



TIC: 03161111.D

(2) 1,4-Dioxane-d8

2.804min (+0.106) 13.06ug/mL m

response 170851

Ion	Exp%	Act%
96.20	100	100
64.20	93.80	91.16
46.10	29.30	28.30
0.00	0.00	0.00

Level III Data Package

Environmental Resources Management Inc.

TestAmerica Work Order Number:

PUC0829

Prepared for:

Jason Hilker
Environmental Resources Management, Inc.
7272 East Indian School Road, Suite 100
Scottsdale, AZ 85251

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

TABLE SUMMARY

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.009

Sampled: 03/11/11
Received: 03/11/11
Issued: 03/22/11 06:26

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUC0829-01	OU3-8M2-M-031111	Water

SAMPLE RECEIPT:	Samples were received intact, at 4°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. N1-The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS). R1-The RPD exceeded the acceptance limit.
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

CHAIN OF CUSTODY FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E. Indian School Rd
Scottsdale, AZ, 85251

Project/PO Number: 0096498.009

Project Manager: Jason Hilker
Send Report to: Jason.Hilker@ERM.com
Sampler: Adam Nagle

Phone Number: 480-998-2401
Fax Number: 480-998-2106

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane only (8270C)								Special Instructions
003-8M2-M-031111	W	40mL / 1L	3 / 2	3/11/11	15:00	HCl / -	X	X		PO C0829-01						LEVEL 3

Relinquished By:	Date/Time:	Received By:	Date/Time:
ERM	3/11 1622		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time: 3/11/11 1622

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

No[illegible]y relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project.
Pa[illegible]t for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

3.8°C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0829-01 (OU3-8M2-M-031111 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0694	10	ND	1	3/18/2011	3/18/2011	
Benzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Bromobenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Bromochloromethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Bromodichloromethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Bromoform	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
Bromomethane	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
2-Butanone (MEK)	EPA 8260B	11C0694	2.5	ND	1	3/18/2011	3/18/2011	
n-Butylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
sec-Butylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
tert-Butylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Carbon disulfide	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Carbon tetrachloride	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Chlorobenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Chloroethane	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
Chloroform	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Chloromethane	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
2-Chlorotoluene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
4-Chlorotoluene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Dibromochloromethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0694	2.5	ND	1	3/18/2011	3/18/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Dibromomethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Dichlorodifluoromethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,1-Dichloroethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,2-Dichloroethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,1-Dichloroethene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0694	0.50	**3.6**	1	3/18/2011	3/18/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,2-Dichloropropane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,3-Dichloropropane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
2,2-Dichloropropane	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
1,1-Dichloropropene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Ethylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Hexachlorobutadiene	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0829-01 (OU3-8M2-M-031111 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0694	2.5	ND	1	3/18/2011	3/18/2011	
Iodomethane	EPA 8260B	11C0694	2.5	ND	1	3/18/2011	3/18/2011	
Isopropylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
p-Isopropyltoluene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Methylene Chloride	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0694	2.5	ND	1	3/18/2011	3/18/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Naphthalene	EPA 8260B	11C0694	2.5	ND	1	3/18/2011	3/18/2011	
n-Propylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Styrene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Tetrachloroethene	EPA 8260B	11C0694	0.50	**0.97**	1	3/18/2011	3/18/2011	
Toluene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Trichloroethene	EPA 8260B	11C0694	0.50	**29**	1	3/18/2011	3/18/2011	
Trichlorofluoromethane	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Vinyl Acetate	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
Vinyl chloride	EPA 8260B	11C0694	0.50	ND	1	3/18/2011	3/18/2011	
Xylenes, Total	EPA 8260B	11C0694	1.0	ND	1	3/18/2011	3/18/2011	
Freon 113	EPA 8260B	11C0694	2.0	ND	1	3/18/2011	3/18/2011	
Surrogate: Dibromofluoromethane (70-130%)				*87 %*				
Surrogate: Toluene-d8 (70-130%)				*86 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)				*84 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC0829-01 (OU3-8M2-M-031111 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	SW8270C	11C0526	1.0	ND	1	3/14/2011	3/17/2011	
Surrogate: 1,4-Dioxane-d8 (20-105%)				*70 %*				
Surrogate: Nitrobenzene-d5 (30-130%)				*79 %*				

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QA/QC DATA PACKAGE: LEVEL III

QUALITY CONTROL SUMMARIES

TestAmerica
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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
Blank Analyzed: 03/18/2011 (11C0694-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498.009
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Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
Blank Analyzed: 03/18/2011 (11C0694-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*21.4*		*ug/l*	*25.0*		*85*	*70-130*			
Surrogate: Toluene-d8	*21.4*		*ug/l*	*25.0*		*86*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*20.6*		*ug/l*	*25.0*		*83*	*70-130*			

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Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
LCS Analyzed: 03/18/2011 (11C0694-BS1)										
Acetone	29.0	10	ug/l	25.0		116	30-150			
Benzene	20.5	0.50	ug/l	25.0		82	70-130			
Bromobenzene	23.0	0.50	ug/l	25.0		92	70-130			
Bromochloromethane	20.7	0.50	ug/l	25.0		83	70-130			
Bromodichloromethane	21.9	0.50	ug/l	25.0		88	70-130			
Bromoform	22.6	1.0	ug/l	25.0		91	67-122			
Bromomethane	20.6	1.0	ug/l	25.0		83	64-132			
2-Butanone (MEK)	24.1	2.5	ug/l	25.0		97	48-150			
n-Butylbenzene	23.2	0.50	ug/l	25.0		93	70-130			
sec-Butylbenzene	22.4	0.50	ug/l	25.0		90	70-130			
tert-Butylbenzene	22.5	0.50	ug/l	25.0		90	70-130			
Carbon disulfide	24.2	0.50	ug/l	25.0		97	61-126			
Carbon tetrachloride	22.1	0.50	ug/l	25.0		88	70-130			
Chlorobenzene	21.6	0.50	ug/l	25.0		87	70-130			
Chloroethane	21.2	1.0	ug/l	25.0		85	69-128			
Chloroform	19.9	0.50	ug/l	25.0		80	70-130			
Chloromethane	22.1	1.0	ug/l	25.0		88	56-131			
2-Chlorotoluene	21.8	0.50	ug/l	25.0		87	70-130			
4-Chlorotoluene	22.9	0.50	ug/l	25.0		92	70-130			
Dibromochloromethane	21.7	0.50	ug/l	25.0		87	70-130			
1,2-Dibromo-3-chloropropane	23.7	2.5	ug/l	25.0		95	63-129			
1,2-Dibromoethane (EDB)	22.1	0.50	ug/l	25.0		88	70-130			
Dibromomethane	21.2	0.50	ug/l	25.0		85	70-130			
1,2-Dichlorobenzene	22.0	0.50	ug/l	25.0		88	70-130			
1,3-Dichlorobenzene	22.2	0.50	ug/l	25.0		89	70-130			
1,4-Dichlorobenzene	22.2	0.50	ug/l	25.0		89	70-130			
Dichlorodifluoromethane	21.2	0.50	ug/l	25.0		85	42-150			
1,1-Dichloroethane	20.2	0.50	ug/l	25.0		81	70-130			
1,2-Dichloroethane	20.2	0.50	ug/l	25.0		81	72-133			
1,1-Dichloroethene	20.5	0.50	ug/l	25.0		82	70-130			
cis-1,2-Dichloroethene	20.0	0.50	ug/l	25.0		80	70-130			
trans-1,2-Dichloroethene	20.8	0.50	ug/l	25.0		83	70-130			
1,2-Dichloropropane	21.3	0.50	ug/l	25.0		85	70-130			
1,3-Dichloropropane	21.3	0.50	ug/l	25.0		85	70-130			
2,2-Dichloropropane	21.3	1.0	ug/l	25.0		85	70-130			

TestAmerica Phoenix

Kylie Emily
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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
LCS Analyzed: 03/18/2011 (11C0694-BS1)										
1,1-Dichloropropene	21.8	0.50	ug/l	25.0		87	70-130			
cis-1,3-Dichloropropene	21.8	0.50	ug/l	25.0		87	70-130			
trans-1,3-Dichloropropene	22.8	0.50	ug/l	25.0		91	70-130			
Ethylbenzene	21.9	0.50	ug/l	25.0		88	70-130			
Hexachlorobutadiene	23.6	1.0	ug/l	25.0		95	70-130			
2-Hexanone	25.9	2.5	ug/l	25.0		104	44-150			
Iodomethane	24.7	2.5	ug/l	25.0		99	58-138			
Isopropylbenzene	24.7	0.50	ug/l	25.0		99	70-130			
p-Isopropyltoluene	22.9	0.50	ug/l	25.0		92	70-130			
Methylene Chloride	20.4	1.0	ug/l	25.0		82	70-130			
4-Methyl-2-pentanone (MIBK)	23.7	2.5	ug/l	25.0		95	61-142			
Methyl-tert-butyl Ether (MTBE)	19.4	0.50	ug/l	25.0		77	70-130			
Naphthalene	23.1	2.5	ug/l	25.0		93	65-129			
n-Propylbenzene	23.4	0.50	ug/l	25.0		94	70-130			
Styrene	22.7	0.50	ug/l	25.0		91	70-130			
1,1,1,2-Tetrachloroethane	21.8	0.50	ug/l	25.0		87	70-130			
1,1,2,2-Tetrachloroethane	22.8	0.50	ug/l	25.0		91	70-130			
Tetrachloroethene	21.7	0.50	ug/l	25.0		87	70-130			
Toluene	21.6	0.50	ug/l	25.0		86	70-130			
1,2,3-Trichlorobenzene	23.4	1.0	ug/l	25.0		94	70-130			
1,2,4-Trichlorobenzene	24.1	1.0	ug/l	25.0		96	70-130			
1,1,1-Trichloroethane	21.2	0.50	ug/l	25.0		85	70-130			
1,1,2-Trichloroethane	21.5	0.50	ug/l	25.0		86	70-130			
Trichloroethene	21.3	0.50	ug/l	25.0		85	70-130			
Trichlorofluoromethane	19.5	0.50	ug/l	25.0		78	78-149			
1,2,3-Trichloropropane	24.0	1.0	ug/l	25.0		96	70-130			
1,2,4-Trimethylbenzene	23.3	0.50	ug/l	25.0		93	70-130			
1,3,5-Trimethylbenzene	23.2	0.50	ug/l	25.0		93	70-130			
Vinyl Acetate	25.6	1.0	ug/l	25.0		102	57-149			
Vinyl chloride	22.2	0.50	ug/l	25.0		89	66-134			
Xylenes, Total	43.0	1.0	ug/l	50.0		86	70-130			
Freon 113	20.3	2.0	ug/l	25.0		81	63-136			
Surrogate: Dibromofluoromethane	*21.3*		*ug/l*	*25.0*		*85*	*70-130*			
Surrogate: Toluene-d8	*21.9*		*ug/l*	*25.0*		*88*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*21.2*		*ug/l*	*25.0*		*85*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
LCS Dup Analyzed: 03/18/2011 (11C0694-BSD1)										
Acetone	30.9	10	ug/l	25.0		124	30-150	6	35	
Benzene	21.1	0.50	ug/l	25.0		85	70-130	3	20	
Bromobenzene	22.8	0.50	ug/l	25.0		91	70-130	1	20	
Bromochloromethane	21.3	0.50	ug/l	25.0		85	70-130	3	20	
Bromodichloromethane	21.2	0.50	ug/l	25.0		85	70-130	3	20	
Bromoform	22.1	1.0	ug/l	25.0		88	67-122	2	20	
Bromomethane	22.2	1.0	ug/l	25.0		89	64-132	7	20	
2-Butanone (MEK)	24.4	2.5	ug/l	25.0		98	48-150	1	33	
n-Butylbenzene	23.3	0.50	ug/l	25.0		93	70-130	0.3	20	
sec-Butylbenzene	22.7	0.50	ug/l	25.0		91	70-130	1	20	
tert-Butylbenzene	22.4	0.50	ug/l	25.0		89	70-130	0.7	20	
Carbon disulfide	24.9	0.50	ug/l	25.0		99	61-126	3	20	
Carbon tetrachloride	22.7	0.50	ug/l	25.0		91	70-130	3	20	
Chlorobenzene	21.7	0.50	ug/l	25.0		87	70-130	0.2	20	
Chloroethane	22.3	1.0	ug/l	25.0		89	69-128	5	20	
Chloroform	20.8	0.50	ug/l	25.0		83	70-130	4	20	
Chloromethane	23.2	1.0	ug/l	25.0		93	56-131	5	20	
2-Chlorotoluene	22.0	0.50	ug/l	25.0		88	70-130	0.7	20	
4-Chlorotoluene	22.6	0.50	ug/l	25.0		90	70-130	1	20	
Dibromochloromethane	21.9	0.50	ug/l	25.0		88	70-130	1	20	
1,2-Dibromo-3-chloropropane	22.3	2.5	ug/l	25.0		89	63-129	6	25	
1,2-Dibromoethane (EDB)	21.9	0.50	ug/l	25.0		88	70-130	0.6	20	
Dibromomethane	21.7	0.50	ug/l	25.0		87	70-130	2	20	
1,2-Dichlorobenzene	22.0	0.50	ug/l	25.0		88	70-130	0	20	
1,3-Dichlorobenzene	22.2	0.50	ug/l	25.0		89	70-130	0	20	
1,4-Dichlorobenzene	22.1	0.50	ug/l	25.0		88	70-130	0.8	20	
Dichlorodifluoromethane	21.8	0.50	ug/l	25.0		87	42-150	3	20	
1,1-Dichloroethane	21.5	0.50	ug/l	25.0		86	70-130	6	20	
1,2-Dichloroethane	20.8	0.50	ug/l	25.0		83	72-133	3	20	
1,1-Dichloroethene	21.8	0.50	ug/l	25.0		87	70-130	6	20	
cis-1,2-Dichloroethene	20.1	0.50	ug/l	25.0		80	70-130	0.4	20	
trans-1,2-Dichloroethene	21.9	0.50	ug/l	25.0		88	70-130	5	20	
1,2-Dichloropropane	21.6	0.50	ug/l	25.0		86	70-130	1	20	
1,3-Dichloropropane	21.2	0.50	ug/l	25.0		85	70-130	0.4	20	
2,2-Dichloropropane	21.5	1.0	ug/l	25.0		86	70-130	1	20	

TestAmerica Phoenix

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
LCS Dup Analyzed: 03/18/2011 (11C0694-BSD1)										
1,1-Dichloropropene	22.1	0.50	ug/l	25.0		88	70-130	2	20	
cis-1,3-Dichloropropene	21.8	0.50	ug/l	25.0		87	70-130	0	20	
trans-1,3-Dichloropropene	22.2	0.50	ug/l	25.0		89	70-130	3	20	
Ethylbenzene	21.8	0.50	ug/l	25.0		87	70-130	0.2	20	
Hexachlorobutadiene	23.7	1.0	ug/l	25.0		95	70-130	0.04	20	
2-Hexanone	22.8	2.5	ug/l	25.0		91	44-150	13	31	
Iodomethane	28.8	2.5	ug/l	25.0		115	58-138	15	25	
Isopropylbenzene	25.0	0.50	ug/l	25.0		100	70-130	1	20	
p-Isopropyltoluene	23.1	0.50	ug/l	25.0		92	70-130	0.8	20	
Methylene Chloride	20.8	1.0	ug/l	25.0		83	70-130	2	20	
4-Methyl-2-pentanone (MIBK)	23.2	2.5	ug/l	25.0		93	61-142	2	22	
Methyl-tert-butyl Ether (MTBE)	20.2	0.50	ug/l	25.0		81	70-130	4	20	
Naphthalene	23.4	2.5	ug/l	25.0		94	65-129	1	20	
n-Propylbenzene	23.4	0.50	ug/l	25.0		93	70-130	0.3	20	
Styrene	22.5	0.50	ug/l	25.0		90	70-130	0.8	20	
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/l	25.0		86	70-130	0.8	20	
1,1,2,2-Tetrachloroethane	21.6	0.50	ug/l	25.0		86	70-130	5	20	
Tetrachloroethene	22.2	0.50	ug/l	25.0		89	70-130	2	20	
Toluene	22.2	0.50	ug/l	25.0		89	70-130	3	20	
1,2,3-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-130	2	20	
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0		98	70-130	2	20	
1,1,1-Trichloroethane	21.8	0.50	ug/l	25.0		87	70-130	3	20	
1,1,2-Trichloroethane	21.4	0.50	ug/l	25.0		85	70-130	0.7	20	
Trichloroethene	21.5	0.50	ug/l	25.0		86	70-130	1	20	
Trichlorofluoromethane	24.4	0.50	ug/l	25.0		98	78-149	22	20	*R6*
1,2,3-Trichloropropane	22.0	1.0	ug/l	25.0		88	70-130	9	20	
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0		93	70-130	0.3	20	
1,3,5-Trimethylbenzene	22.8	0.50	ug/l	25.0		91	70-130	2	20	
Vinyl Acetate	25.8	1.0	ug/l	25.0		103	57-149	0.8	21	
Vinyl chloride	22.4	0.50	ug/l	25.0		90	66-134	1	20	
Xylenes, Total	43.3	1.0	ug/l	50.0		87	70-130	0.6	20	
Freon 113	20.8	2.0	ug/l	25.0		83	63-136	2	20	
Surrogate: Dibromofluoromethane	*21.9*		*ug/l*	*25.0*		*87*	*70-130*			
Surrogate: Toluene-d8	*21.6*		*ug/l*	*25.0*		*86*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*21.4*		*ug/l*	*25.0*		*86*	*70-130*			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009

Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
Matrix Spike Analyzed: 03/18/2011 (11C0694-MS1)					**Source: PUC0827-02**					
Acetone	31.2	10	ug/l	25.0	ND	125	10-150			
Benzene	21.6	0.50	ug/l	25.0	ND	86	70-130			
Bromobenzene	22.9	0.50	ug/l	25.0	ND	92	70-130			
Bromochloromethane	22.6	0.50	ug/l	25.0	ND	90	70-130			
Bromodichloromethane	22.4	0.50	ug/l	25.0	ND	90	70-130			
Bromoform	23.8	1.0	ug/l	25.0	ND	95	62-126			
Bromomethane	22.0	1.0	ug/l	25.0	ND	88	55-136			
2-Butanone (MEK)	25.6	2.5	ug/l	25.0	ND	103	22-150			
n-Butylbenzene	23.5	0.50	ug/l	25.0	ND	94	70-130			
sec-Butylbenzene	22.6	0.50	ug/l	25.0	ND	90	70-130			
tert-Butylbenzene	22.6	0.50	ug/l	25.0	ND	90	70-130			
Carbon disulfide	30.5	0.50	ug/l	25.0	ND	122	56-132			
Carbon tetrachloride	22.9	0.50	ug/l	25.0	ND	92	76-131			
Chlorobenzene	21.7	0.50	ug/l	25.0	ND	87	70-130			
Chloroethane	24.3	1.0	ug/l	25.0	ND	97	67-134			
Chloroform	23.0	0.50	ug/l	25.0	1.20	87	70-130			
Chloromethane	22.0	1.0	ug/l	25.0	ND	88	50-135			
2-Chlorotoluene	21.7	0.50	ug/l	25.0	ND	87	70-130			
4-Chlorotoluene	22.6	0.50	ug/l	25.0	ND	90	70-130			
Dibromochloromethane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,2-Dibromo-3-chloropropane	23.2	2.5	ug/l	25.0	ND	93	60-135			
1,2-Dibromoethane (EDB)	23.5	0.50	ug/l	25.0	ND	94	70-130			
Dibromomethane	23.2	0.50	ug/l	25.0	ND	93	70-130			
1,2-Dichlorobenzene	22.8	0.50	ug/l	25.0	ND	91	70-130			
1,3-Dichlorobenzene	22.8	0.50	ug/l	25.0	ND	91	70-130			
1,4-Dichlorobenzene	22.6	0.50	ug/l	25.0	ND	90	70-130			
Dichlorodifluoromethane	22.7	0.50	ug/l	25.0	ND	91	36-150			
1,1-Dichloroethane	21.9	0.50	ug/l	25.0	ND	88	70-130			
1,2-Dichloroethane	22.9	0.50	ug/l	25.0	ND	92	68-143			
1,1-Dichloroethene	26.8	0.50	ug/l	25.0	ND	107	70-130			
cis-1,2-Dichloroethene	21.7	0.50	ug/l	25.0	ND	87	70-130			
trans-1,2-Dichloroethene	22.4	0.50	ug/l	25.0	ND	90	70-130			
1,2-Dichloropropane	22.7	0.50	ug/l	25.0	ND	91	70-130			
1,3-Dichloropropane	22.9	0.50	ug/l	25.0	ND	91	70-130			
2,2-Dichloropropane	22.1	1.0	ug/l	25.0	ND	88	66-130			

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
Matrix Spike Analyzed: 03/18/2011 (11C0694-MS1)					**Source: PUC0827-02**					
1,1-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	70-130			
cis-1,3-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	70-130			
trans-1,3-Dichloropropene	24.6	0.50	ug/l	25.0	ND	98	71-132			
Ethylbenzene	21.8	0.50	ug/l	25.0	ND	87	70-130			
Hexachlorobutadiene	23.7	1.0	ug/l	25.0	ND	95	66-129			
2-Hexanone	25.8	2.5	ug/l	25.0	ND	103	18-150			
Iodomethane	35.6	2.5	ug/l	25.0	ND	142	47-141			*N1*
Isopropylbenzene	24.9	0.50	ug/l	25.0	ND	99	78-137			
p-Isopropyltoluene	23.3	0.50	ug/l	25.0	ND	93	70-130			
Methylene Chloride	26.8	1.0	ug/l	25.0	ND	107	74-132			
4-Methyl-2-pentanone (MIBK)	25.0	2.5	ug/l	25.0	ND	100	56-145			
Methyl-tert-butyl Ether (MTBE)	22.3	0.50	ug/l	25.0	ND	89	67-138			
Naphthalene	23.6	2.5	ug/l	25.0	ND	95	54-135			
n-Propylbenzene	23.3	0.50	ug/l	25.0	ND	93	70-130			
Styrene	21.4	0.50	ug/l	25.0	ND	86	51-123			
1,1,1,2-Tetrachloroethane	22.0	0.50	ug/l	25.0	ND	88	70-130			
1,1,2,2-Tetrachloroethane	23.8	0.50	ug/l	25.0	ND	95	69-133			
Tetrachloroethene	23.8	0.50	ug/l	25.0	1.89	88	70-130			
Toluene	21.6	0.50	ug/l	25.0	ND	86	70-130			
1,2,3-Trichlorobenzene	25.3	1.0	ug/l	25.0	ND	101	70-130			
1,2,4-Trichlorobenzene	25.4	1.0	ug/l	25.0	ND	102	66-126			
1,1,1-Trichloroethane	22.7	0.50	ug/l	25.0	ND	91	76-132			
1,1,2-Trichloroethane	22.8	0.50	ug/l	25.0	ND	91	70-130			
Trichloroethene	22.0	0.50	ug/l	25.0	0.400	87	70-130			
Trichlorofluoromethane	27.1	0.50	ug/l	25.0	ND	108	74-150			
1,2,3-Trichloropropane	22.8	1.0	ug/l	25.0	ND	91	70-130			
1,2,4-Trimethylbenzene	23.4	0.50	ug/l	25.0	ND	93	70-130			
1,3,5-Trimethylbenzene	22.9	0.50	ug/l	25.0	ND	91	61-138			
Vinyl Acetate	28.1	1.0	ug/l	25.0	ND	112	50-150			
Vinyl chloride	23.5	0.50	ug/l	25.0	ND	94	58-139			
Xylenes, Total	43.3	1.0	ug/l	50.0	ND	87	70-130			
Freon 113	26.4	2.0	ug/l	25.0	ND	106	56-148			
Surrogate: Dibromofluoromethane	*22.2*		*ug/l*	*25.0*		*89*	*70-130*			
Surrogate: Toluene-d8	*21.8*		*ug/l*	*25.0*		*87*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*21.5*		*ug/l*	*25.0*		*86*	*70-130*			

TestAmerica Phoenix

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
Matrix Spike Dup Analyzed: 03/18/2011 (11C0694-MSD1)					**Source: PUC0827-02**					
Acetone	26.7	10	ug/l	25.0	ND	107	10-150	15	35	
Benzene	21.7	0.50	ug/l	25.0	ND	87	70-130	0.5	20	
Bromobenzene	22.9	0.50	ug/l	25.0	ND	92	70-130	0.04	20	
Bromochloromethane	22.0	0.50	ug/l	25.0	ND	88	70-130	3	20	
Bromodichloromethane	22.6	0.50	ug/l	25.0	ND	90	70-130	0.8	20	
Bromoform	23.7	1.0	ug/l	25.0	ND	95	62-126	0.3	20	
Bromomethane	21.9	1.0	ug/l	25.0	ND	88	55-136	0.5	24	
2-Butanone (MEK)	24.7	2.5	ug/l	25.0	ND	99	22-150	4	31	
n-Butylbenzene	23.4	0.50	ug/l	25.0	ND	94	70-130	0.3	20	
sec-Butylbenzene	22.6	0.50	ug/l	25.0	ND	90	70-130	0.3	20	
tert-Butylbenzene	22.6	0.50	ug/l	25.0	ND	90	70-130	0.09	20	
Carbon disulfide	25.2	0.50	ug/l	25.0	ND	101	56-132	19	20	
Carbon tetrachloride	23.3	0.50	ug/l	25.0	ND	93	76-131	2	20	
Chlorobenzene	22.1	0.50	ug/l	25.0	ND	88	70-130	2	20	
Chloroethane	22.4	1.0	ug/l	25.0	ND	90	67-134	8	20	
Chloroform	22.7	0.50	ug/l	25.0	1.20	86	70-130	1	20	
Chloromethane	19.9	1.0	ug/l	25.0	ND	80	50-135	10	20	
2-Chlorotoluene	22.0	0.50	ug/l	25.0	ND	88	70-130	1	20	
4-Chlorotoluene	22.8	0.50	ug/l	25.0	ND	91	70-130	1	20	
Dibromochloromethane	22.5	0.50	ug/l	25.0	ND	90	70-130	0.8	20	
1,2-Dibromo-3-chloropropane	24.0	2.5	ug/l	25.0	ND	96	60-135	4	29	
1,2-Dibromoethane (EDB)	22.8	0.50	ug/l	25.0	ND	91	70-130	3	20	
Dibromomethane	22.9	0.50	ug/l	25.0	ND	92	70-130	2	20	
1,2-Dichlorobenzene	22.3	0.50	ug/l	25.0	ND	89	70-130	2	20	
1,3-Dichlorobenzene	22.5	0.50	ug/l	25.0	ND	90	70-130	1	20	
1,4-Dichlorobenzene	22.4	0.50	ug/l	25.0	ND	90	70-130	0.8	20	
Dichlorodifluoromethane	22.2	0.50	ug/l	25.0	ND	89	36-150	2	22	
1,1-Dichloroethane	21.4	0.50	ug/l	25.0	ND	86	70-130	2	20	
1,2-Dichloroethane	21.9	0.50	ug/l	25.0	ND	88	68-143	5	20	
1,1-Dichloroethene	21.4	0.50	ug/l	25.0	ND	86	70-130	22	20	*R1*
cis-1,2-Dichloroethene	20.6	0.50	ug/l	25.0	ND	82	70-130	5	20	
trans-1,2-Dichloroethene	22.0	0.50	ug/l	25.0	ND	88	70-130	2	20	
1,2-Dichloropropane	22.7	0.50	ug/l	25.0	ND	91	70-130	0.09	20	
1,3-Dichloropropane	22.3	0.50	ug/l	25.0	ND	89	70-130	3	20	
2,2-Dichloropropane	21.6	1.0	ug/l	25.0	ND	86	66-130	2	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0694 Extracted: 03/18/11										
Matrix Spike Dup Analyzed: 03/18/2011 (11C0694-MSD1)					**Source: PUC0827-02**					
1,1-Dichloropropene	22.6	0.50	ug/l	25.0	ND	90	70-130	0.7	20	
cis-1,3-Dichloropropene	22.9	0.50	ug/l	25.0	ND	92	70-130	2	20	
trans-1,3-Dichloropropene	23.8	0.50	ug/l	25.0	ND	95	71-132	3	20	
Ethylbenzene	22.0	0.50	ug/l	25.0	ND	88	70-130	1	20	
Hexachlorobutadiene	23.6	1.0	ug/l	25.0	ND	95	66-129	0.2	21	
2-Hexanone	25.1	2.5	ug/l	25.0	ND	100	18-150	3	25	
Iodomethane	29.0	2.5	ug/l	25.0	ND	116	47-141	20	29	
Isopropylbenzene	25.0	0.50	ug/l	25.0	ND	100	78-137	0.6	20	
p-Isopropyltoluene	23.0	0.50	ug/l	25.0	ND	92	70-130	1	20	
Methylene Chloride	21.3	1.0	ug/l	25.0	ND	85	74-132	23	20	*R1*
4-Methyl-2-pentanone (MIBK)	24.6	2.5	ug/l	25.0	ND	98	56-145	2	26	
Methyl-tert-butyl Ether (MTBE)	21.7	0.50	ug/l	25.0	ND	87	67-138	3	21	
Naphthalene	24.6	2.5	ug/l	25.0	ND	98	54-135	4	33	
n-Propylbenzene	23.4	0.50	ug/l	25.0	ND	94	70-130	0.5	20	
Styrene	21.4	0.50	ug/l	25.0	ND	85	51-123	0.2	21	
1,1,1,2-Tetrachloroethane	22.4	0.50	ug/l	25.0	ND	90	70-130	2	20	
1,1,2,2-Tetrachloroethane	23.4	0.50	ug/l	25.0	ND	94	69-133	1	20	
Tetrachloroethene	24.2	0.50	ug/l	25.0	1.89	89	70-130	1	20	
Toluene	22.2	0.50	ug/l	25.0	ND	89	70-130	3	20	
1,2,3-Trichlorobenzene	24.8	1.0	ug/l	25.0	ND	99	70-130	2	20	
1,2,4-Trichlorobenzene	24.9	1.0	ug/l	25.0	ND	99	66-126	2	20	
1,1,1-Trichloroethane	22.3	0.50	ug/l	25.0	ND	89	76-132	2	20	
1,1,2-Trichloroethane	22.6	0.50	ug/l	25.0	ND	90	70-130	1	20	
Trichloroethene	22.6	0.50	ug/l	25.0	0.400	89	70-130	3	20	
Trichlorofluoromethane	25.7	0.50	ug/l	25.0	ND	103	74-150	5	20	
1,2,3-Trichloropropane	24.0	1.0	ug/l	25.0	ND	96	70-130	5	20	
1,2,4-Trimethylbenzene	23.2	0.50	ug/l	25.0	ND	93	70-130	0.4	20	
1,3,5-Trimethylbenzene	22.8	0.50	ug/l	25.0	ND	91	61-138	0.4	33	
Vinyl Acetate	26.4	1.0	ug/l	25.0	ND	105	50-150	6	23	
Vinyl chloride	23.2	0.50	ug/l	25.0	ND	93	58-139	1	21	
Xylenes, Total	43.5	1.0	ug/l	50.0	ND	87	70-130	0.3	20	
Freon 113	20.4	2.0	ug/l	25.0	ND	82	56-148	26	22	*R1*
Surrogate: Dibromofluoromethane	*21.7*		*ug/l*	*25.0*		*87*	*70-130*			
Surrogate: Toluene-d8	*21.8*		*ug/l*	*25.0*		*87*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*21.7*		*ug/l*	*25.0*		*87*	*70-130*			

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC0829

Sampled: 03/11/11
Received: 03/11/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0526 Extracted: 03/14/11										
Blank Analyzed: 03/16/2011 (11C0526-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.5*		*ug/l*	*20.0*		*73*	*20-105*			
Surrogate: Nitrobenzene-d5	*15.7*		*ug/l*	*20.0*		*79*	*30-130*			
LCS Analyzed: 03/16/2011 (11C0526-BS1)										**Q8**
1,4-Dioxane	20.9	1.0	ug/l	20.0		104	85-115			
Surrogate: 1,4-Dioxane-d8	*12.9*		*ug/l*	*20.0*		*64*	*30-105*			
Surrogate: Nitrobenzene-d5	*14.9*		*ug/l*	*20.0*		*74*	*35-140*			
LCS Dup Analyzed: 03/16/2011 (11C0526-BSD1)										**Q8**
1,4-Dioxane	20.8	1.0	ug/l	20.0		104	85-115	0.3	20	
Surrogate: 1,4-Dioxane-d8	*14.2*		*ug/l*	*20.0*		*71*	*30-105*			
Surrogate: Nitrobenzene-d5	*16.6*		*ug/l*	*20.0*		*83*	*35-140*			

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DATA QUALIFIERS AND DEFINITIONS

N1	See case narrative.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
SW8270C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD: 8260B

DATE: 03/17/2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD: 8260B

DATE: 03/17/2011

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Volatiles	Method: 8260B	Instrument #: GCMS 7
Analyst: LC	Analysis Date: 03/17/11	

Method name saved in the file:

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9) 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? (Y) N
   If yes, what points were removed or replaced: (lowest) middle (highest)
   List of the analytes: Acetone, Methylene chloride, MEK, 2-CEVE, MIBK, 2-Hexanone, 1,2-Dibromo-3-chloropropane, Naphthalene
   Why? LRL, Curve Fit
5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☑ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☑ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst:	Date: 03/18/11
	Reviewer:	Date: 3/11/11

Attachment 2
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-011 R.0
VOCs in Vapor [Method No. 8260B AZ Method]

Analysis Date: 03/17/11 | Analyst: LC

Description	Yes	No	NA[1]
1. BFB (50 ng or less): Verify meets criteria very 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.M	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:			
- Second source within historical limits	✓		
- Tertiary source within 50 – 150% recovery	✓	✓	(1)
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓		
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)			N/A
- Must be analyzed per 20 samples/per matrix/per batch			
- LCS/LSCD recoveries within historical limits			
- RPD ≤ 25%			
- Surrogates within historical limits			
6. Samples			
- Analyzed within 72 hours of sampling			
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL			
- Surrogate recoveries within historical limits			
- Sample Duplicate performed every 10 samples			

Comments:
(1) Bromomethane – NI – See CAR

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:		
	Analyst: [signature]	Date: 03/18/11
	Reviewer: [signature]	Date: 3/18/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

Instrument ID	GCMS 7
Date:	03/17/11
Analyst	LC
Method(s)	8260B
50 ppm Cal. Std.	PU01525
2.5 ppm Cal. Std.	PU01528
500 / 250 ppm EtOH/TBA Cal. Std.	N/A
50 / 25 ppm EtOH/TBA Cal. Std.	N/A
50 ppm SS Std.	PU01537
500 / 250 ppm EtOH/TBA SS Std.	N/A

3° Gas: PT06459

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: [signature] Date: 3/18/11

LC 03-18-11

Response Factor Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

Calibration File
0.5 =03171106.D 1.0 =03171107.D 2.0 =03171108.D 5.0 =03171109.D
25.0 =03171111.D 50.0 =03171112.D 100. =03171113.D 200. =03171114.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD	
	ISTD												
I	Pentafluorobenzene	1.278	1.131	1.176	1.343	1.199	1.217	1.132	1.112	1.041	1.181	7.72	
T	Dichlorodifluoromethane	1.965	1.722	1.705	2.115	2.031	1.963	1.991	2.043	2.039	1.953	7.34	
TMP	Chloromethane	1.791	1.789	1.668	1.817	1.677	1.725	1.728	1.753	1.700	1.739	3.03	
TMC	Vinyl chloride	0.920	0.793	0.521	0.711	0.801	0.859	0.858	0.916	0.940	0.813	16.17	Linear r^2= 0.997
TM	Bromomethane	1.005	1.039	0.879	0.958	0.956	0.913	0.871	0.834	0.839	0.922	7.88	
TM	Chloroethane	1.302	1.243	1.207	1.370	1.280	1.303	0.986	0.997	1.191	1.209	11.13	
TM	Trichlorofluoromethane			0.374	0.261	0.172	0.158	0.128	0.120	0.141	0.194	47.71	Linear r^2= 0.991
T	Acetone	0.379	0.589	0.400	0.584	0.546	0.597	0.565	0.561	0.556	0.531	15.44	Linear r^2= 0.999
T	Iodomethane	0.860	0.836	0.621	0.721	0.703	0.678	0.638	0.643	0.644	0.705	12.41	
TMC	1,1-Dichloroethene		1.032	0.802	0.901	0.831	0.804	0.764	0.757	0.744	0.830	11.53	
TM	Methylene chloride	1.047	0.958	0.765	0.861	0.786	0.813	0.761	0.768	0.755	0.835	12.34	
	Freon 113	2.991	2.718	2.262	2.705	2.441	2.445	2.339	2.359	2.318	2.509	9.68	
T	Carbon disulfide	0.822	0.931	0.715	0.835	0.766	0.772	0.720	0.735	0.725	0.780	9.14	
TM	trans-1,2-Dichloroethene	1.501	1.617	1.243	1.449	1.271	1.308	1.179	1.227	1.204	1.333	11.45	
T	MTBE	1.773	1.868	1.535	1.752	1.632	1.610	1.498	1.506	1.474	1.628	8.66	
TMP	1,1-Dichloroethane	1.436	1.510	1.090	1.380	1.226	1.231	1.161	1.181	1.162	1.264	11.34	
T	Vinyl acetate			0.013	0.037	0.040	0.042	0.040	0.040	0.040	0.036#	27.95	Linear r^2= 0.999
T	2-Butanone (MEK)	0.915	0.789	0.816	0.898	0.803	0.800	0.745	0.754	0.751	0.808	7.61	
T	cis-1,2-Dichloroethene	0.338	0.306	0.271	0.338	0.314	0.289	0.279	0.273	0.253	0.296	10.21	
T	Bromochloromethane	1.474	1.291	1.359	1.505	1.426	1.329	1.229	1.253	1.222	1.343	7.86	
TMC	Chloroform	1.151	1.062	1.049	1.207	1.108	1.096	1.056	1.056	1.014	1.089	5.45	
T	2,2-Dichloropropane	0.743	0.594	0.581	0.695	0.640	0.629	0.585	0.607	0.588	0.629	8.90	
S	Dibromofluoromethane	0.873	0.905	0.802	0.893	0.804	0.830	0.757	0.772	0.740	0.820	7.31	
TM	1,2-Dichloroethane	0.981	0.938	0.900	1.069	0.997	0.987	0.937	0.942	0.927	0.964	5.23	
TM	1,1,1-Trichloroethane												
	ISTD												
I	1,4-Difluorobenzene	0.676	0.609	0.621	0.674	0.653	0.658	0.630	0.618	0.620	0.640	4.00	
T	1,1-Dichloropropene	0.426	0.417	0.414	0.477	0.459	0.458	0.442	0.442	0.440	0.442	4.67	
TM	Carbon tetrachloride	1.854	1.747	1.665	1.787	1.702	1.685	1.664	1.658	1.636	1.711	4.18	
TM	Benzene	0.220	0.217	0.194	0.215	0.208	0.199	0.193	0.191	0.186	0.202	6.23	
T	Dibromomethane	0.525	0.461	0.462	0.521	0.468	0.481	0.465	0.464	0.454	0.478	5.57	
TMC	1,2-Dichloropropane	0.455	0.415	0.412	0.467	0.422	0.428	0.421	0.419	0.412	0.428	4.61	
TM	Trichloroethene	0.507	0.483	0.464	0.551	0.511	0.518	0.496	0.501	0.491	0.502	4.85	
TM	Bromodichloromethane			0.111	0.123	0.108	0.100	0.086	0.080		0.101	15.92	Linear r^2= 0.990
	2-Chlorovinylethylether	0.588	0.595	0.568	0.665	0.626	0.630	0.602	0.611	0.602	0.610	4.62	
	cis-1,3-Dichloropropene												

M 1/1/11

LC 03/18/11

	4-Methyl-2-pentanone (MIBK)	0.296	0.223	0.257	0.245	0.246	0.237	0.250	0.244	0.250	8.48
TM	trans-1,3-Dichloropropene	0.429	0.486	0.437	0.505	0.482	0.485	0.478	0.470	0.463	0.471	5.22
TM	1,1,2-Trichloroethane	0.230	0.224	0.221	0.244	0.234	0.228	0.218	0.221	0.216	0.226	3.97
S	Toluene-d8	1.506	1.274	1.214	1.274	1.213	1.236	1.199	1.217	1.214	1.261	7.60
TMC	Toluene	1.070	0.895	0.962	1.017	0.968	0.969	0.963	0.955	0.954	0.973	4.92
	ISTD											
I	Chlorobenzene-d5	0.535	0.569	0.533	0.642	0.578	0.578	0.552	0.560	0.543	0.566	5.90
T	1,3-Dichloropropane			0.153	0.215	0.180	0.183	0.192	0.202	0.194	0.189	10.33
T	2-Hexanone	0.421	0.294	0.319	0.347	0.331	0.338	0.336	0.340	0.336	0.340	10.04
TM	Dibromochloromethane	0.265	0.251	0.278	0.321	0.291	0.290	0.283	0.293	0.282	0.284	6.84
T	1,2-Dibromoethane	0.491	0.416	0.421	0.457	0.454	0.451	0.444	0.454	0.448	0.448	4.86
TM	Tetrachloroethene	0.419	0.370	0.348	0.372	0.362	0.362	0.359	0.370	0.370	0.370	5.34
T	1,1,1,2-Tetrachloroethane	1.278	1.127	1.115	1.215	1.160	1.173	1.147	1.185	1.173	1.175	4.18
TMP	Chlorobenzene	2.432	2.116	2.077	2.272	2.199	2.221	2.180	2.235	2.188	2.214	4.57
TMC	Ethylbenzene	0.914	0.710	0.745	0.803	0.758	0.769	0.749	0.770	0.760	0.775	7.43
T	m,p-Xylenes	1.044	1.064	1.123	1.265	1.177	1.217	1.199	1.239	1.255	1.176	6.94
T	Styrene	0.865	0.741	0.720	0.770	0.734	0.734	0.728	0.747	0.744	0.754	5.84
T	o-Xylene	0.666	0.563	0.532	0.559	0.520	0.531	0.517	0.534	0.509	0.548	8.71
S	4-Bromofluorobenzene											
	ISTD											
	1,4-Dichlorobenzene-d4	0.346	0.342	0.330	0.398	0.372	0.377	0.377	0.381	0.334	0.362	6.65
TMP	Bromoform	0.776	0.777	0.741	0.769	0.759	0.732	0.718	0.714	0.603	0.732	7.38
TMP	1,1,2,2-Tetrachloroethane	0.119	0.178	0.161	0.182	0.165	0.168	0.160	0.158	0.143	0.159	11.89
T	1,2,3-Trichloropropane	4.005	3.607	3.797	3.945	4.018	3.966	3.899	3.859	3.357	3.828	5.68
T	Isopropylbenzene	0.821	0.849	0.879	0.932	0.930	0.936	0.909	0.898	0.795	0.883	5.79
T	Bromobenzene	5.622	5.275	5.271	5.811	5.709	5.635	5.518	5.473	4.873	5.465	5.26
T	n-Propylbenzene	3.635	3.131	3.065	3.274	3.275	3.246	3.176	3.139	2.874	3.202	6.40
T	2-Chlorotoluene	3.455	2.901	3.111	3.329	3.224	3.287	3.194	3.123	2.942	3.174	5.61
T	4-Chlorotoluene	3.482	3.055	3.159	3.421	3.445	3.402	3.291	3.314	3.201	3.308	4.40
T	1,3,5-Trimethylbenzene	2.867	2.682	2.696	2.874	2.922	2.887	2.853	2.812	2.753	2.816	3.07
T	tert-Butylbenzene	3.429	3.228	3.251	3.411	3.407	3.411	3.331	3.302	3.155	3.325	2.94
T	1,2,4-Trimethylbenzene	4.909	4.685	4.781	4.988	4.889	4.960	4.835	4.770	4.628	4.827	2.53
T	sec-Butylbenzene	1.922	1.696	1.781	1.842	1.831	1.832	1.788	1.772	1.732	1.800	3.69
TM	1,3-Dichlorobenzene	2.018	1.817	1.769	1.830	1.781	1.799	1.774	1.772	1.748	1.812	4.50
TM	1,4-Dichlorobenzene	3.621	3.386	3.554	3.772	3.840	3.866	3.737	3.736	3.694	3.690	4.07
T	p-Isopropyltoluene	1.676	1.479	1.524	1.652	1.572	1.593	1.551	1.529	1.511	1.565	4.17
TM	1,2-Dichlorobenzene	4.083	3.836	3.893	4.307	4.176	4.341	4.160	4.146	4.018	4.107	4.15
T	n-Butylbenzene		0.086	0.108	0.092	0.106	0.101	0.097	0.096	0.094	0.098#	7.23
T	1,2-Dibromo-3-chloropropane	0.920	1.036	0.925	1.051	0.955	1.090	1.036	1.068	1.017	1.011	6.18
T	1,2,4-Trichlorobenzene		1.322	1.200	1.403	1.267	1.459	1.356	1.419	1.298	1.341	6.41
T	Naphthalene	0.624	0.630	0.633	0.635	0.661	0.684	0.649	0.662	0.632	0.646	3.07
T	Hexachlorobutadiene	0.835	0.763	0.778	0.889	0.792	0.905	0.830	0.863	0.763	0.824	6.51
T	1,2,3-Trichlorobenzene											

(#) = Out of Range

031711.M Thu Mar 17 14:51:40 2011

M

LC

Calibration Status Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D
2	1.0	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
3	2.0	2	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
4	5.0	5	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
5	10.0	10	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
6	25.0	25	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
7	50.0	50	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
8	100.	100	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
9	200.	200	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Mar 17 14:03 2011	Mar 17 13:56 2011	17 Mar 2011 9:12 am
2	1.0	Mar 17 14:03 2011	Mar 17 13:57 2011	17 Mar 2011 9:43 am
3	2.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:14 am
4	5.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:45 am
5	10.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:15 am
6	25.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:46 am
7	50.0	Mar 17 14:04 2011	Mar 17 14:01 2011	17 Mar 2011 12:17 pm
8	100.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 12:48 pm
9	200.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 1:19 pm

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03/18/11

Compound List Report GCMS7

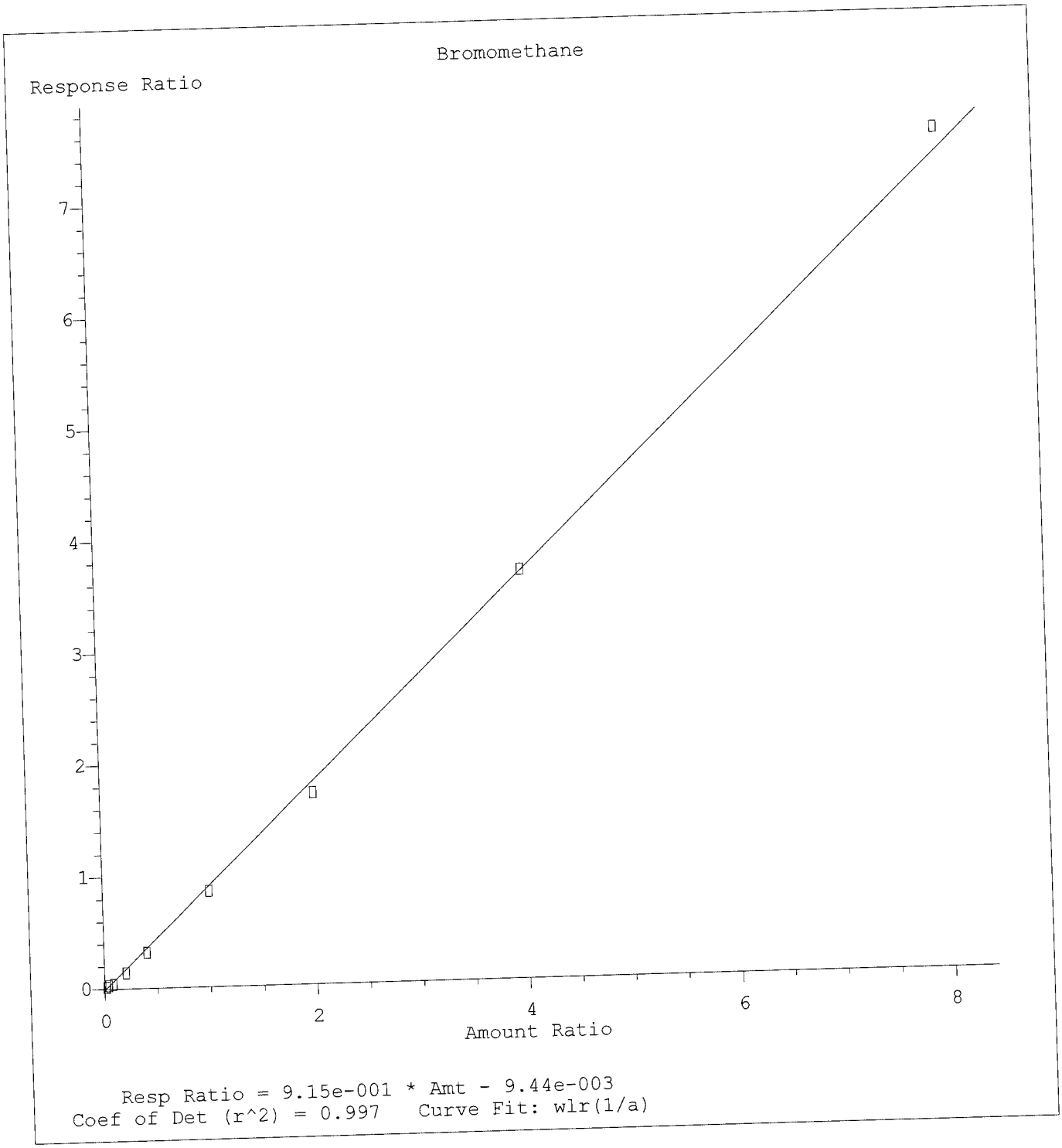
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Pentafluorobenzene	168	10.60	1.000	A	0	A	L
2	T	Dichlorodifluoromethane	85	4.60	0.434	A	2	A	B
3	T	Chloromethane	50	4.89	0.461	A	1	A	B
4	T	Vinyl chloride	62	5.18	0.489	A	1	A	B
5	T	Bromomethane	94	5.78	0.545	L	1	A	B
6	T	Chloroethane	64	5.98	0.564	A	1	A	B
7	T	Trichlorofluoromethane	101	6.78	0.639	A	1	A	L
8	T	Acetone	43	6.94	0.654	L	1	A	L
9	T	Iodomethane	142	7.57	0.714	L	1	A	B
10	T	1,1-Dichloroethene	96	7.51	0.708	A	2	A	B
11	T	Methylene chloride	84	7.71	0.727	A	2	A	B
12		Freon 113	101	7.77	0.733	A	2	A	B
13	T	Carbon disulfide	76	8.03	0.757	A	0	A	B
14	T	trans-1,2-Dichloroethene	96	8.59	0.810	A	2	A	B
15	T	MTBE	73	8.74	0.824	A	1	A	B
16	T	1,1-Dichloroethane	63	8.92	0.841	A	2	A	B
17	T	Vinyl acetate	43	9.08	0.857	A	1	A	L
18	T	2-Butanone (MEK)	72	9.47	0.893	L	1	A	B
19	T	cis-1,2-Dichloroethene	96	9.66	0.911	A	2	A	B
20	T	Bromochloromethane	128	9.87	0.931	A	2	A	B
21	T	Chloroform	83	9.93	0.936	A	1	A	B
22	T	2,2-Dichloropropane	77	10.04	0.947	A	1	A	B
23	S	Dibromofluoromethane	113	10.09	0.951	A	0	A	B
24	T	1,2-Dichloroethane	62	10.78	1.017	A	1	A	B
25	T	1,1,1-Trichloroethane	97	10.91	1.029	A	2	A	B
26	I	1,4-Difluorobenzene	114	11.73	1.000	A	1	A	B
27	T	1,1-Dichloropropene	75	11.15	0.950	A	2	A	B
28	T	Carbon tetrachloride	117	11.39	0.971	A	1	A	B
29	T	Benzene	78	11.44	0.976	A	1	A	B
30	T	Dibromomethane	93	12.17	1.037	A	2	A	B
31	T	1,2-Dichloropropane	63	12.21	1.041	A	1	A	B
32	T	Trichloroethene	95	12.27	1.046	A	2	A	B
33	T	Bromodichloromethane	83	12.33	1.051	A	2	A	B
34	T	2-Chlorovinylethylether	63	12.86	1.097	L	1	A	B
35	T	cis-1,3-Dichloropropene	75	13.16	1.122	A	1	A	B
36		4-Methyl-2-pentanone (MIBK)	43	13.31	1.135	A	2	A	B
37	T	trans-1,3-Dichloropropene	75	13.73	1.171	A	1	A	B
38	T	1,1,2-Trichloroethane	83	13.95	1.189	A	2	A	B
39	S	Toluene-d8	98	14.12	1.204	A	0	A	B
40	T	Toluene	92	14.21	1.212	A	1	A	B
41	I	Chlorobenzene-d5	117	16.07	1.000	A	0	A	B
42	T	1,3-Dichloropropane	76	14.27	0.888	A	1	A	B
43	T	2-Hexanone	43	14.47	0.900	A	2	A	B
44	T	Dibromochloromethane	129	14.64	0.911	A	1	A	B
45	T	1,2-Dibromoethane	107	14.98	0.932	A	2	A	B
46	T	Tetrachloroethene	166	15.21	0.946	A	2	A	B
47	T	1,1,1,2-Tetrachloroethane	131	16.01	0.996	A	2	A	B
48	T	Chlorobenzene	112	16.12	1.003	A	2	A	B
49	T	Ethylbenzene	91	16.37	1.019	A	1	A	B
50	T	m,p-Xylenes	106	16.64	1.035	A	1	A	B
51	T	Styrene	104	17.09	1.064	A	1	A	B
52	T	o-Xylene	106	17.19	1.070	A	1	A	B
53	S	4-Bromofluorobenzene	95	17.75	1.105	A	2	A	B
5		1,4-Dichlorobenzene-d4	152	19.53	1.000	A	2	A	B
55	T	Bromoform	173	16.81	0.861	A	1	A	B
56	T	1,1,2,2-Tetrachloroethane	83	17.18	0.879	A	2	A	B
57	T	1,2,3-Trichloropropane	110	17.38	0.890	A	1	A	B
58	T	Isopropylbenzene	105	17.69	0.906	A	1	A	B
59	T	Bromobenzene	156	18.05	0.924	A	2	A	B

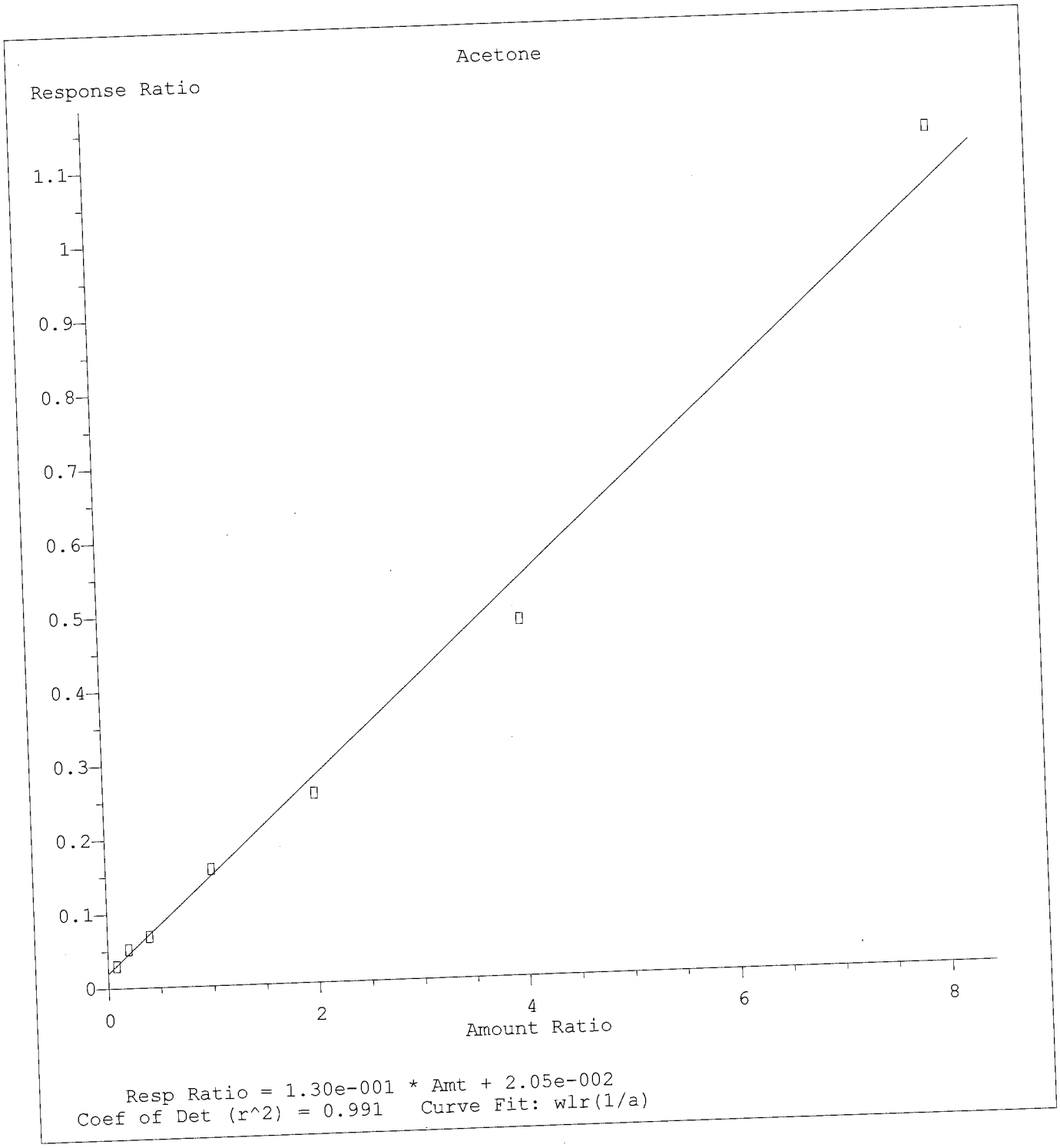
60	T	n-Propylbenzene	91	18.30	0.937	A	1	A	B
61	T	2-Chlorotoluene	91	18.44	0.944	A	1	A	R
62	T	4-Chlorotoluene	91	18.55	0.949	A	1	A	R
63	T	1,3,5-Trimethylbenzene	105	18.70	0.957	A	1	A	B
64	T	tert-Butylbenzene	119	19.09	0.977	A	1	A	B
65	T	1,2,4-Trimethylbenzene	105	19.23	0.984	A	1	A	B
66	T	sec-Butylbenzene	105	19.37	0.992	A	1	A	B
67	T	1,3-Dichlorobenzene	146	19.48	0.997	A	2	A	R
68	T	1,4-Dichlorobenzene	146	19.57	1.002	A	2	A	R
69	T	p-Isopropyltoluene	119	19.61	1.004	A	2	A	B
70	T	1,2-Dichlorobenzene	146	20.02	1.025	A	2	A	B
71	T	n-Butylbenzene	91	20.12	1.030	A	1	A	B
72	T	1,2-Dibromo-3-chloropropane	157	20.58	1.054	A	1	A	B
73	T	1,2,4-Trichlorobenzene	180	22.28	1.141	A	1	A	B
74	T	Naphthalene	128	22.63	1.158	A	0	A	B
75	T	Hexachlorobutadiene	225	22.68	1.161	A	1	A	B
76	T	1,2,3-Trichlorobenzene	180	22.90	1.172	A	1	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031711.M Thu Mar 17 14:51:24 2011

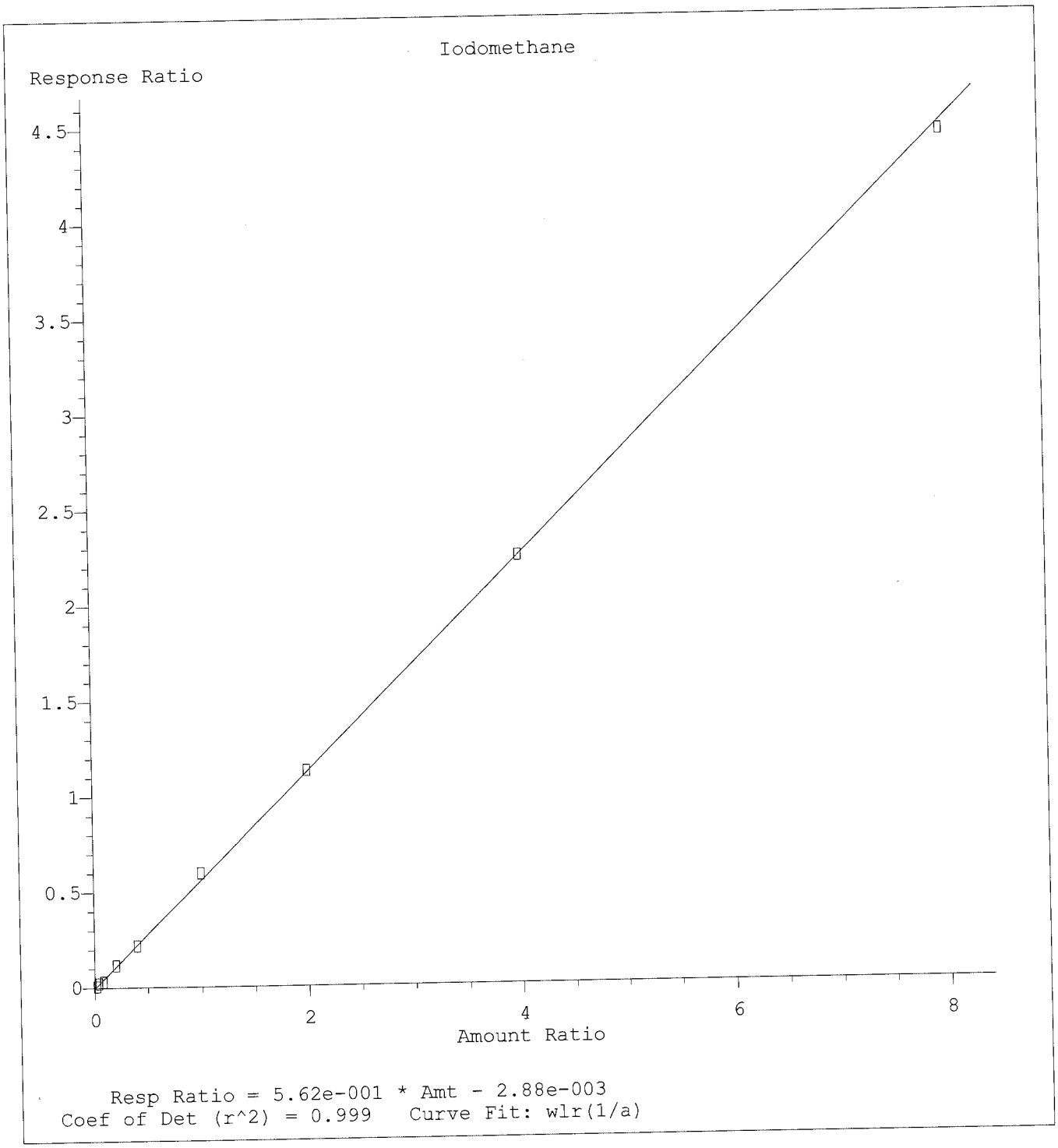


Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011



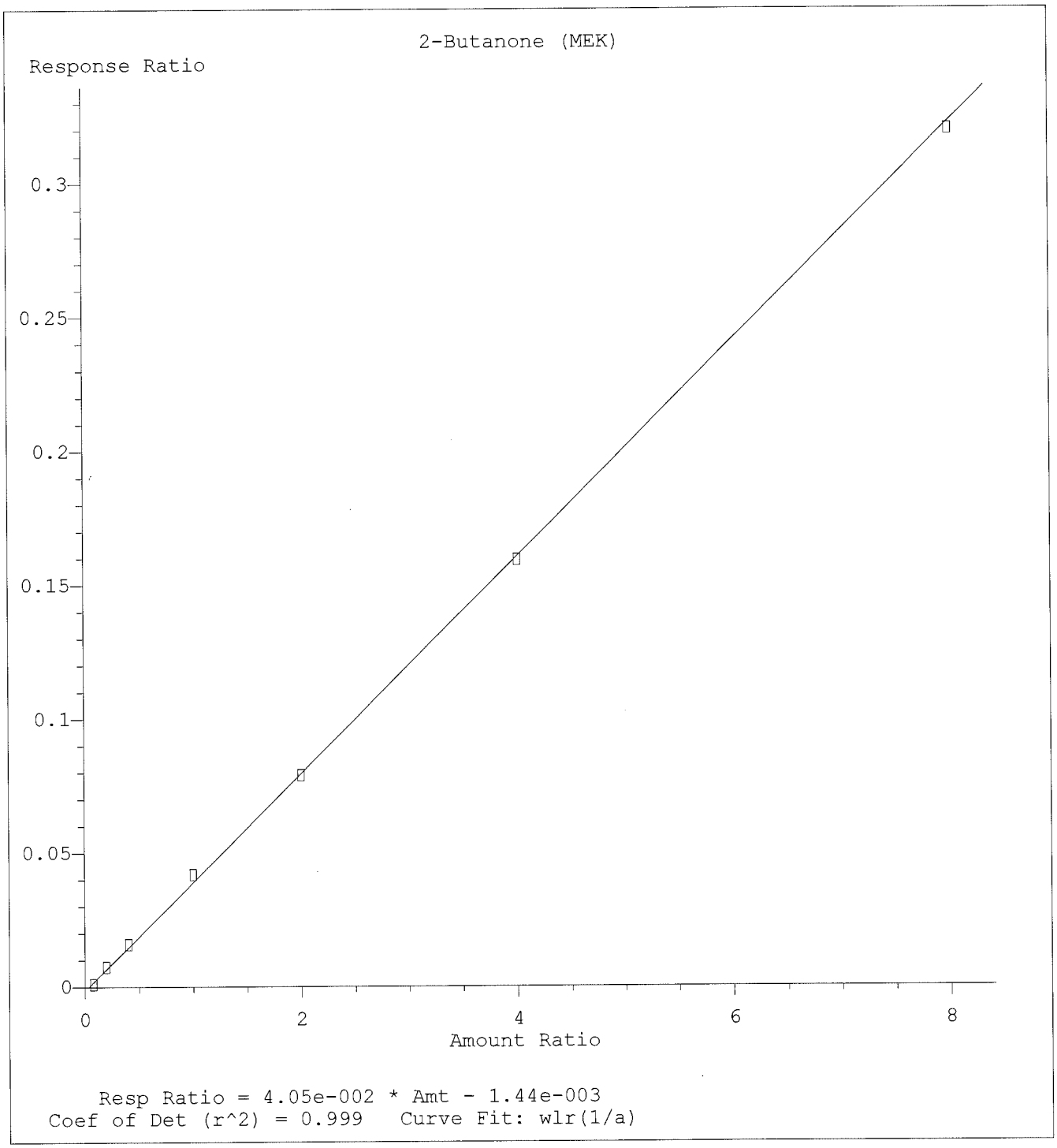
Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

3/18/11

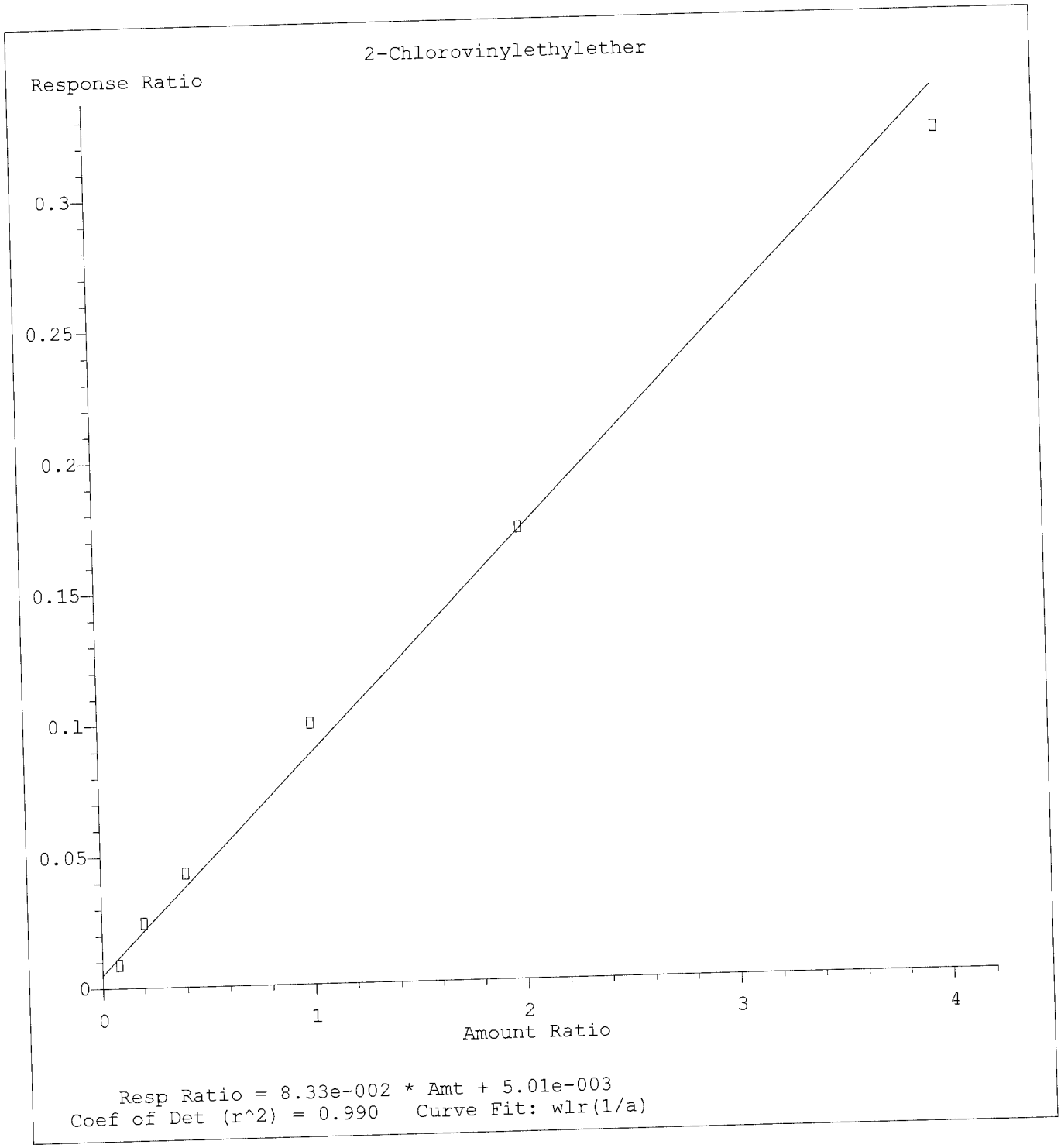


Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

MS 4/1/11
LC 3/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

m/n/11 03/18/11

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\031711

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03171101.d	1.	TUNE		17 Mar 2011 06:59
2	1	03171102.d	1.	TUNE		17 Mar 2011 07:16
3	16	03171103.d	1.	25 PPB CCV		17 Mar 2011 07:36
4	1	03171104.d	1.	BLANK		17 Mar 2011 08:10
5	2	03171105.d	1.	BLANK		17 Mar 2011 08:41
6	3	03171106.d	1.	0.5 PPB		17 Mar 2011 09:12
7	4	03171107.d	1.	1.0 PPB		17 Mar 2011 09:43
8	5	03171108.d	1.	2.0 PPB		17 Mar 2011 10:14
9	6	03171109.d	1.	5.0 PPB		17 Mar 2011 10:45
10	7	03171110.d	1.	10 PPB		17 Mar 2011 11:15
11	8	03171111.d	1.	25 PPB		17 Mar 2011 11:46
12	9	03171112.d	1.	50 PPB		17 Mar 2011 12:17
13	10	03171113.d	1.	100 PPB		17 Mar 2011 12:48
14	12	03171114.d	1.	200 PPB		17 Mar 2011 13:19
15	13	03171115.d	1.	SS		17 Mar 2011 13:50
16	16	03171116.d	1.	TERTIARY GAS		17 Mar 2011 14:20
17	1	03171117.d	1.	TUNE		17 Mar 2011 14:47
18	1	03171118.d	1.	25 PPB CCV		17 Mar 2011 15:06
19	2	03171119.d	1.	-BS1		17 Mar 2011 15:37
20	3	03171120.d	1.	-BSD1		17 Mar 2011 16:07
21	4	03171121.d	1.	-BLK1		17 Mar 2011 16:38
22	5	03171122.d	1.	PUC1019-01@16:20		17 Mar 2011 17:09
23	6	03171123.d	1.	PUC1019-02@16:22		17 Mar 2011 17:40
24	7	03171124.d	1.	PUC1025-02@16:25		17 Mar 2011 18:10
25	8	03171125.d	1.	PUC1025-01	5X	17 Mar 2011 18:41
26	9	03171126.d	1.	PUC1025-01	1X	17 Mar 2011 19:12
27	13	03171127.d	1.	PUC1025-01DUP1	1X	17 Mar 2011 19:43
28	16	03171128.d	1.	PUC0795-01		17 Mar 2011 20:13
29	1	03171129.d	1.	PUC0795-02		17 Mar 2011 20:44
30	2	03171130.d	1.	PUC0795-03		17 Mar 2011 21:15
31	3	03171131.d	1.	PUC0795-04		17 Mar 2011 21:46
32	4	03171132.d	1.	PUC0795-05		17 Mar 2011 22:17
33	5	03171133.d	1.	PUC0795-06		17 Mar 2011 22:48
34	6	03171134.d	1.	11C0657-MS1		17 Mar 2011 23:19
35	7	03171135.d	1.	11C0657-MSD1		17 Mar 2011 23:50
36	10	03171136.d	1.	BLK		18 Mar 2011 00:21
37	12	03171137.d	1.	BLK		18 Mar 2011 00:51

M 3/18/11

03/18/11

TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY

DATE: 03/17/11
ANALYST: LC
CALIBRATION METHOD(S): 031411.M / New Curve -031711.M

QC BATCH # (s) : Air 11C0657, H_2O 0659
SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\ 031711

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
/	03171101	Tune	2uL	N/A	8260B	H_2O	DNU - Incorred Std.
/	02	↓	↓				
16	03	25 PPB CCV	1x10mL				DNU - Acetone
1	04	Blank					DNU - Clean Out
2	05	↓					
3	06	0.5 PPB					
4	07	1.0					
5	08	2.0					
6	09	5.0					
7	10	10					
8	11	25					
9	12	50					
10	13	100					
12	14	200					
13	15	SS					
16	16	Tertiary Gas	1x 10cc			Air	Bromomethane 49%
/	17	Tune	2uL			H_2O	
1	18	25 PPB CCV	1x 10mL				Ace ↑
2	19	11C0657 -BS1					iodo, c.D. ↑ 11C0659-BS1
3	20	-BSD1					iodo ↑ BSD1
4	21	-BLK1					BLK
5	22	PUC1079-01A	1x10cc			Air	16:20
6	23	02A					16:22
7	24	1025-02A					16:25
8	25	1025-01A @5x	2cc → 10cc				16:30
9	26	-01A @1x	1x10cc				16:27
13	27	-01 DUP					16:32 11C0657-DUP1
16	28	PUC0795-01A	1x10mL	≤2		H_2O	source
1	29	02A		≤2			
2	30	03A		≤2			

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537
CALIBRATION STD: 1525 / PU01528
Internal Std: 1522
IS/Surrogate/BFB: 1534 / PU01261
LOT #: 3° Gas: PT06459

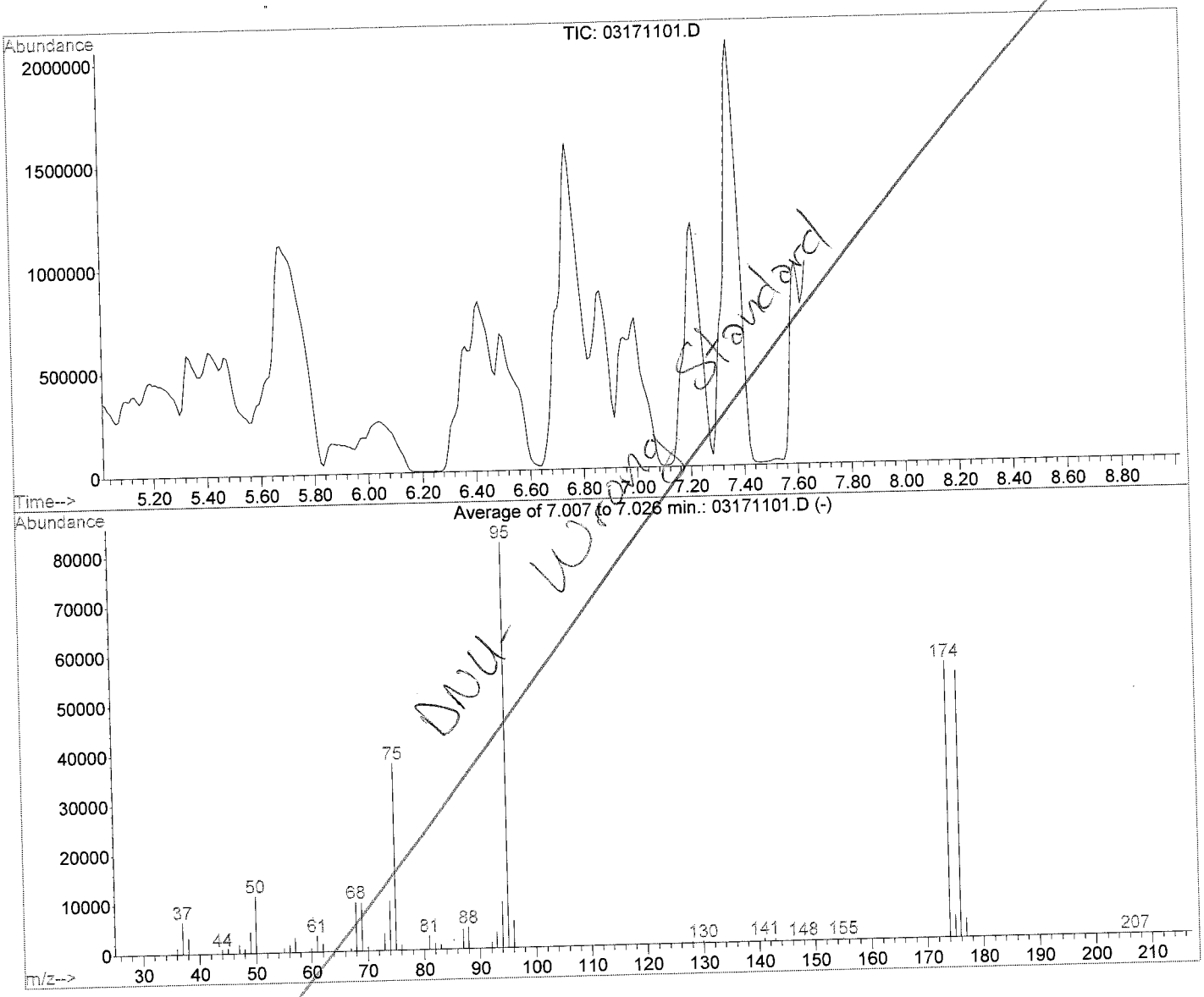
REQUIRED REVIEWS

ARCHON REVIEWED
By / Date: LC 03/17/11
SEQUENCE REVIEWED
By / Date: LC 03/17/11
FINAL REVIEWER / Date: [signature]

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171101.D
Acq On : 17 Mar 2011 6:59 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00



Do not use this standard

Spectrum Information: Average of 7.007 to 7.026 min.

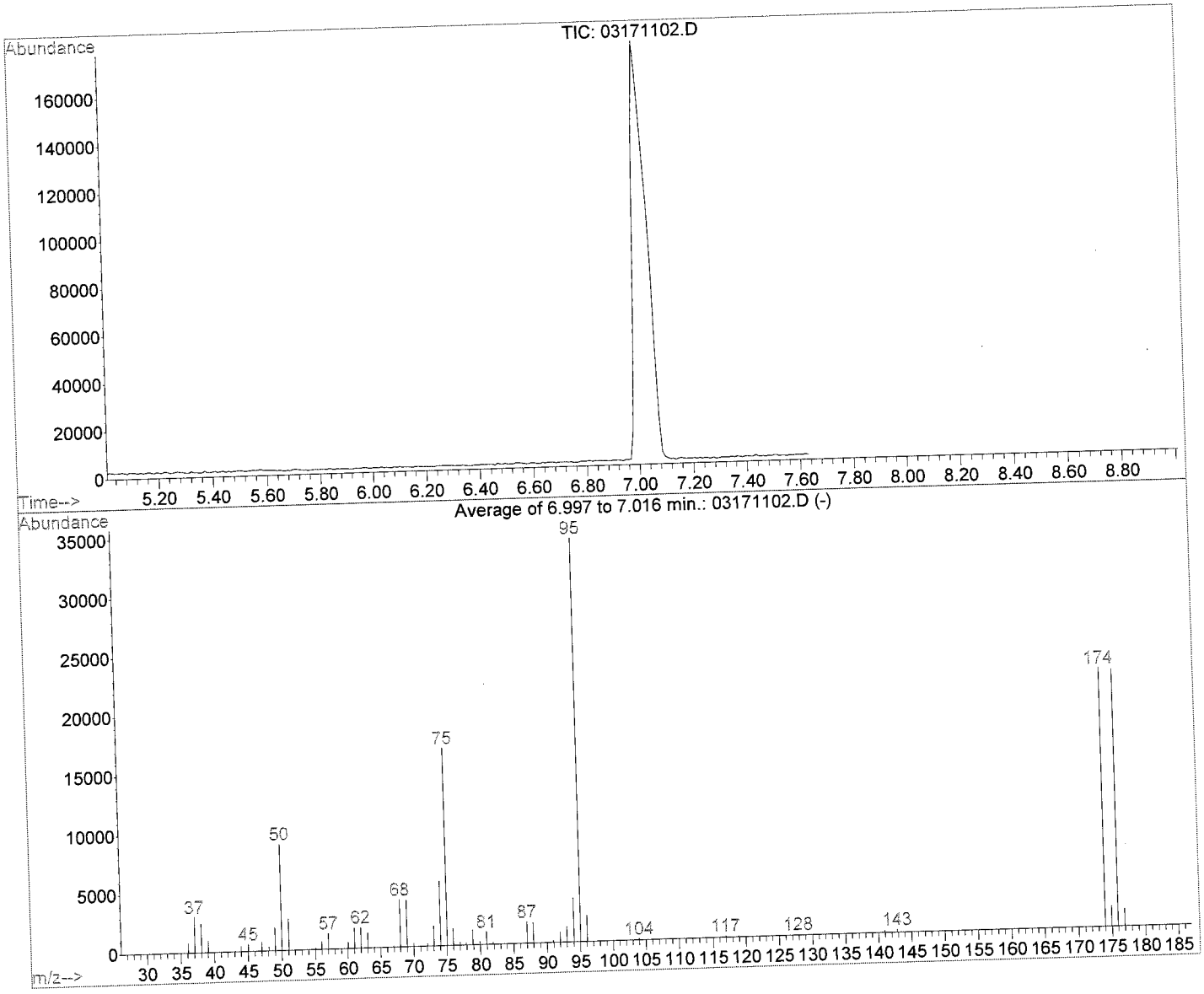
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	13.9	11317	FAIL*
75	95	30	60	46.1	37626	PASS
95	95	100	100	100.0	81675	PASS
96	95	5	9	6.6	5429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.1	55616	PASS
175	174	5	9	7.8	4344	PASS
176	174	95	101	96.5	53661	PASS
177	176	5	9	6.7	3599	PASS

03171101.D 031711.M Thu Mar 17 14:54:14 2011

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171102.D
Acq On : 17 Mar 2011 7:16 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00



Spectrum Information: Average of 6.997 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	8966	PASS
75	95	30	60	48.9	16685	PASS
95	95	100	100	100.0	34109	PASS
96	95	5	9	6.4	2195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.1	21869	PASS
175	174	5	9	7.8	1697	PASS
176	174	95	101	99.3	21715	PASS
177	176	5	9	6.7	1463	PASS

03171102.D 031411.M Thu Mar 17 13:54:22 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D
Acq On : 17 Mar 2011 7:36 am
Sample : 25 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	183444	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	325784	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	270420	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	118494	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	106054	24.28 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.12%	
39) Toluene-d8	14.11	98	384866	24.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.12%	
53) 4-Bromofluorobenzene	17.75	95	134955	24.39 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.56%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	203514	22.97 ug/L	100
3) Chloromethane	4.90	50	349427	27.92 ug/L	100
4) Vinyl chloride	5.19	62	318799	26.09 ug/L	99
5) Bromomethane	5.78	94	141014	26.05 ug/L	96
6) Chloroethane	5.99	64	169039	25.83 ug/L	97
7) Trichlorofluoromethane	6.78	101	229398	25.07 ug/L	99
8) Acetone	6.93	43	87501	Below Cal	97
9) Iodomethane	7.58	142	98773	23.31 ug/L	98
10) 1,1-Dichloroethene	7.52	96	122197	26.18 ug/L	94
11) Methylene chloride	7.71	84	141233	23.11 ug/L	100
12) Freon 113	7.78	101	141514	23.82 ug/L	99
13) Carbon disulfide	8.03	76	424756	25.69 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	133127	23.44 ug/L	97
15) MTBE	8.73	73	229415	23.89 ug/L	98
16) 1,1-Dichloroethane	8.92	63	275296	23.59 ug/L	99
17) Vinyl acetate	9.08	43	220376	24.39 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7147	23.08 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	138298	23.44 ug/L	98
20) Bromochloromethane	9.87	128	51964	23.76 ug/L	97
21) Chloroform	9.93	83	226993	23.52 ug/L	100
22) 2,2-Dichloropropane	10.03	77	199254	24.74 ug/L	99
24) 1,2-Dichloroethane	10.78	62	137605	24.05 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	172734	23.93 ug/L	98
27) 1,1-Dichloropropene	11.15	75	199034	23.87 ug/L	99
28) Carbon tetrachloride	11.39	117	140086	24.16 ug/L	99
29) Benzene	11.44	78	525784	23.82 ug/L	100
30) Dibromomethane	12.17	93	59810	22.72 ug/L	99
31) 1,2-Dichloropropane	12.21	63	147015	23.80 ug/L	100
32) Trichloroethene	12.26	95	130559	23.47 ug/L	100
33) Bromodichloromethane	12.33	83	152627	23.43 ug/L	97
34) 2-Chlorovinylethylether	12.86	63	34857	23.00 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	192256	24.47 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.30	43	79041	22.82 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	148191	24.15 ug/L	98
38) 1,1,2-Trichloroethane	13.95	83	69853	23.20 ug/L	96
40) Toluene	14.21	92	301555	24.42 ug/L	99
42) 1,3-Dichloropropane	14.27	76	144303	23.31 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171103.D 031411.M Thu Mar 17 13:54:27 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D
Acq On : 17 Mar 2011 7:36 am
Sample : 25 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	52512	24.58 ug/L #	99
44) Dibromochloromethane	14.65	129	85525	24.04 ug/L	98
45) 1,2-Dibromoethane	14.98	107	75677	25.06 ug/L	99
46) Tetrachloroethene	15.20	166	116159	23.97 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	93416	24.16 ug/L	98
48) Chlorobenzene	16.12	112	306146	24.04 ug/L	97
49) Ethylbenzene	16.38	91	563689	24.00 ug/L	99
50) m,p-Xylenes	16.64	106	197842	23.89 ug/L	100
51) Styrene	17.09	104	313010	24.57 ug/L	100
52) o-Xylene	17.19	106	188426	23.54 ug/L	100
55) Bromoform	16.81	173	45375	27.10 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	85826	24.73 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	19634	26.45 ug/L	97
58) Isopropylbenzene	17.70	105	467417	25.22 ug/L	100
59) Bromobenzene	18.05	156	105243	25.16 ug/L	98
60) n-Propylbenzene	18.30	91	657511	25.12 ug/L	100
61) 2-Chlorotoluene	18.44	91	374515	24.85 ug/L	99
62) 4-Chlorotoluene	18.55	91	377509	25.07 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	397648	25.20 ug/L	99
64) tert-Butylbenzene	19.09	119	338640	25.00 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	398096	24.77 ug/L	98
66) sec-Butylbenzene	19.38	105	570587	24.77 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	211237	24.59 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	208652	24.28 ug/L	99
69) p-Isopropyltoluene	19.61	119	450706	25.20 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	179425	24.69 ug/L	99
71) n-Butylbenzene	20.11	91	503050	25.42 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	11007	24.17 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	125573	24.32 ug/L	99
74) Naphthalene	22.62	128	162763	24.75 ug/L	100
75) Hexachlorobutadiene	22.68	225	79503	27.59 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	100849	23.50 ug/L	98

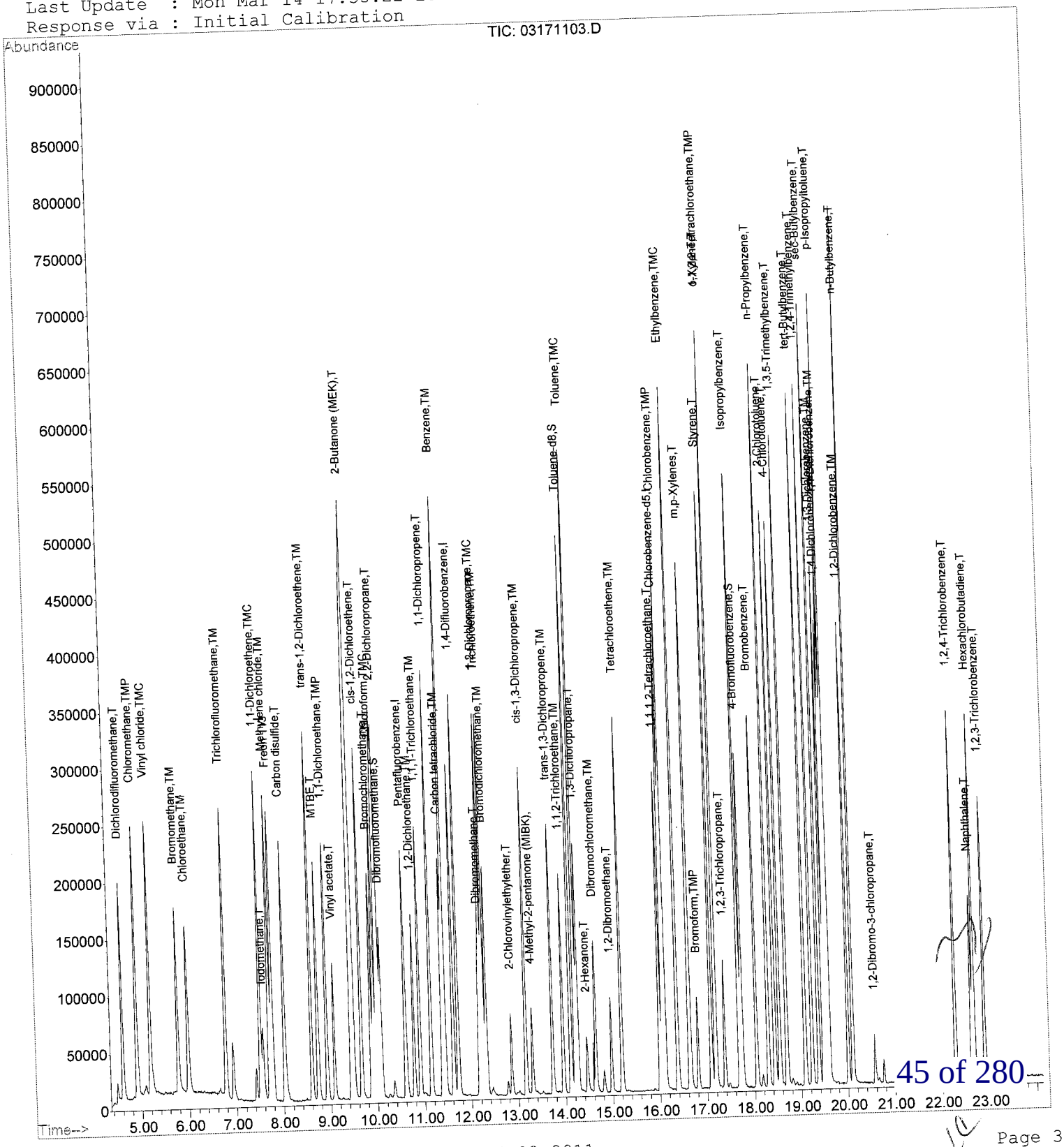
M

(#) = qualifier out of range (m) = manual integration
03171103.D 031411.M Thu Mar 17 13:54:27 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171103.D 031411.M Thu Mar 17 13:54:28 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 8:10 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	208596	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	368454	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	303623	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	134043	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	111829	22.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.04%	
39) Toluene-d8	14.11	98	400008	22.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.08%	
53) 4-Bromofluorobenzene	17.75	95	138919	22.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 89.44%	

Target Compounds					Qvalue
8) Acetone	6.94	43	4324	1.42 ug/L #	65
10) 1,1-Dichloroethene	7.51	96	60	Below Cal #	73
13) Carbon disulfide	8.03	76	742	Below Cal	100
24) 1,2-Dichloroethane	10.60	62	1046	0.16 ug/L #	1
36) 4-Methyl-2-pentanone (MIBK	13.01	43	7775	1.98 ug/L #	50
38) 1,1,2-Trichloroethane	14.12	83	373	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.11	76	4467	0.64 ug/L #	68
73) 1,2,4-Trichlorobenzene	22.29	180	1153	0.20 ug/L	97
74) Naphthalene	22.63	128	8429	1.13 ug/L	100
76) 1,2,3-Trichlorobenzene	22.91	180	1057	0.22 ug/L	93

DNR Clean Out

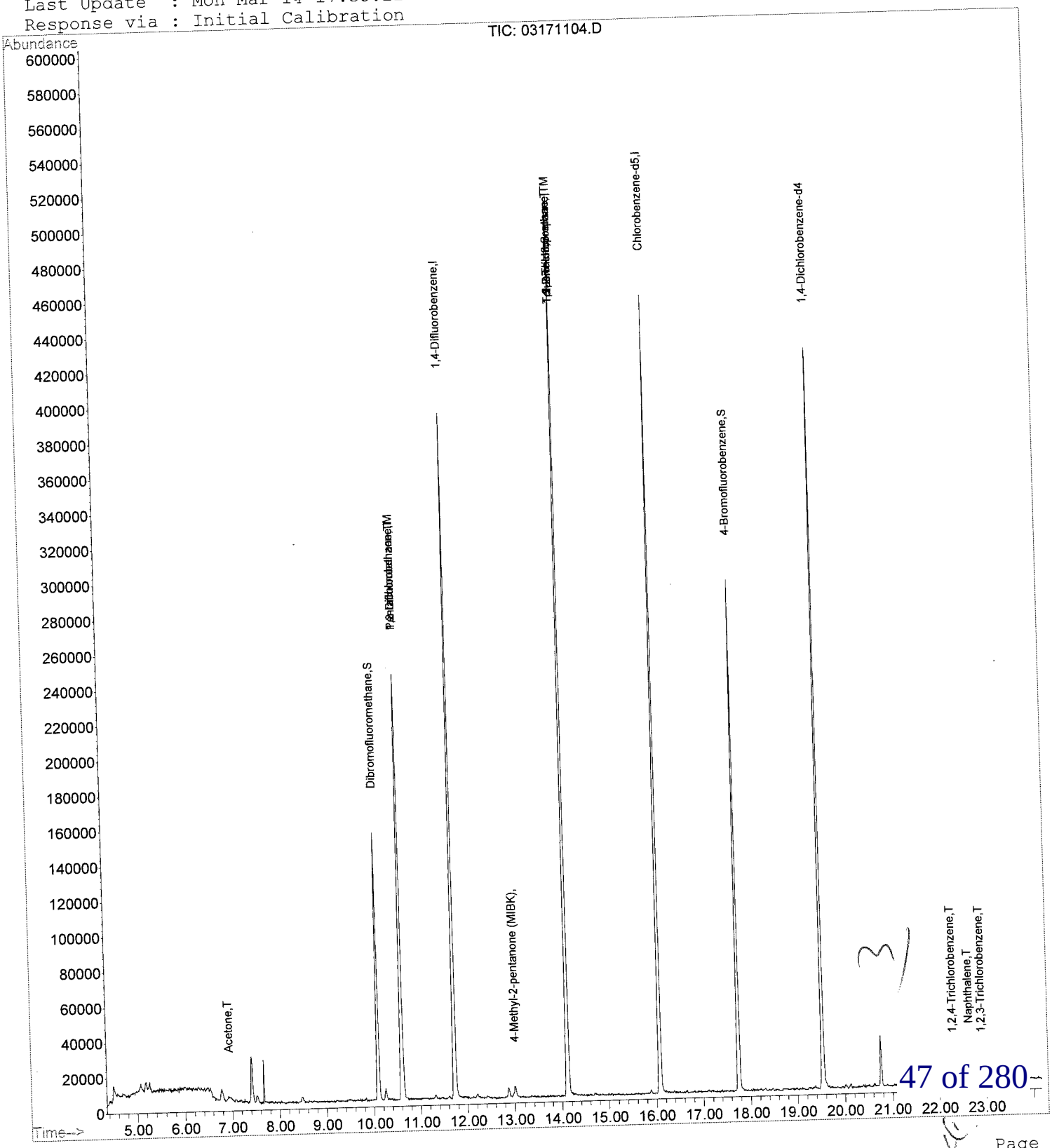
3/18/11

(#) = qualifier out of range (m) = manual integration
03171104.D 031411.M Thu Mar 17 13:54:37 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 8:10 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171104.D 031411.M Thu Mar 17 13:54:37 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	24.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.00%	
39) Toluene-d8	14.11	98	374753	22.97 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.88%	
53) 4-Bromofluorobenzene	17.75	95	131653	22.85 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.40%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.14 ug/L LRL	98
8) Acetone	6.93	43	3328	0.96 ug/L #	69
10) 1,1-Dichloroethene	7.53	96	127	Below Cal #	1
13) Carbon disulfide	8.02	76	5282	Below Cal	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	82
24) 1,2-Dichloroethane	10.60	62	1206	0.20 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.60 ug/L # WRT	70
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	32
74) Naphthalene	22.63	128	1667	0.23 ug/L	100

m 4/18/11

(#) = qualifier out of range (m) = manual integration
03171105.D 031411.M Thu Mar 17 13:54:55 2011

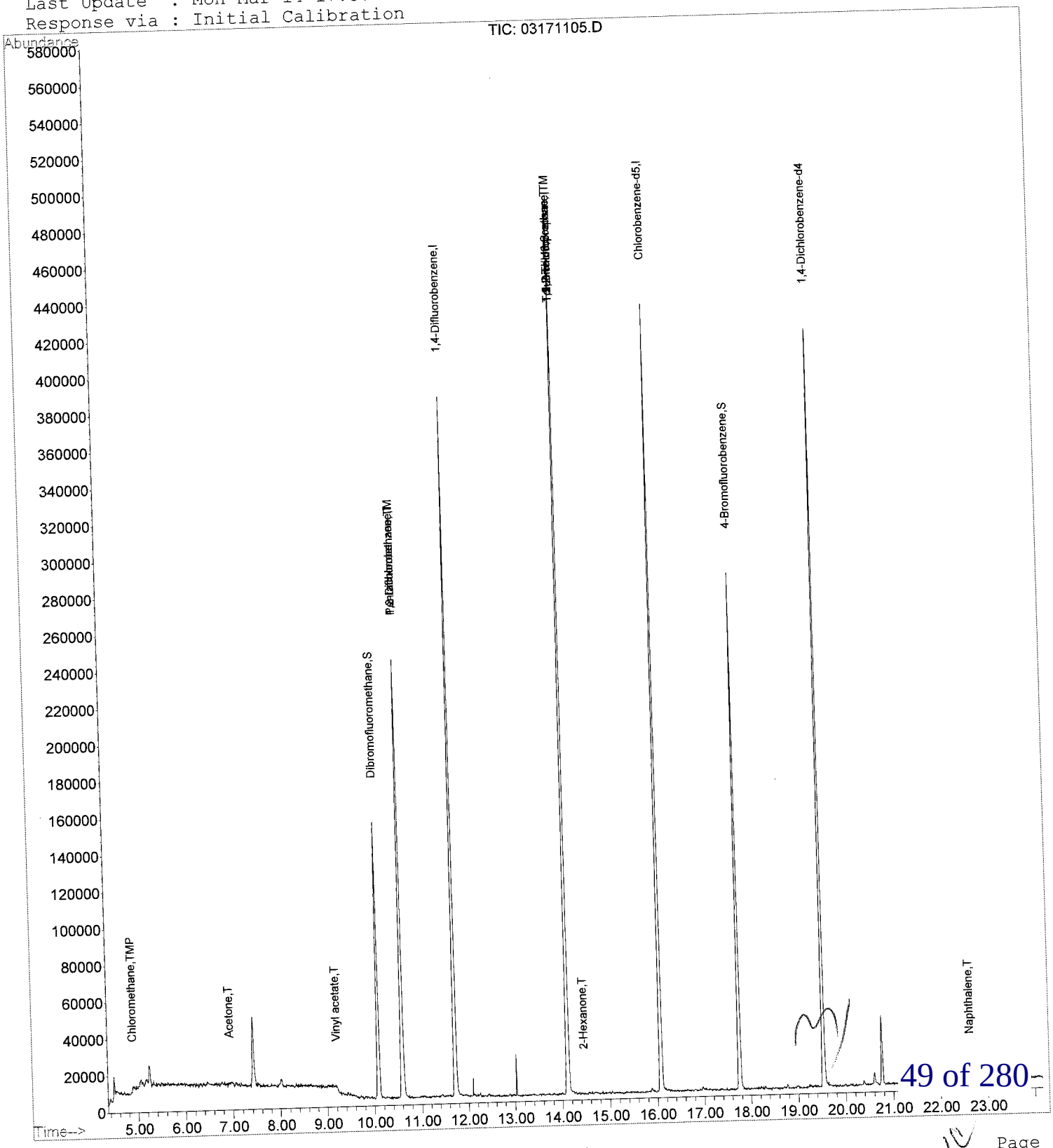
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D
Acq On : 17 Mar 2011 8:41 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

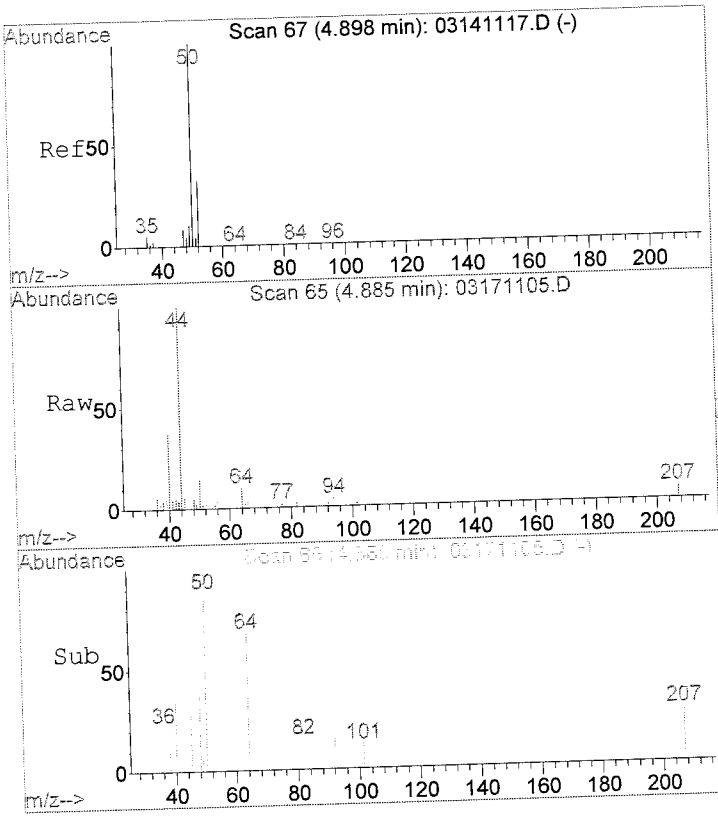
Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



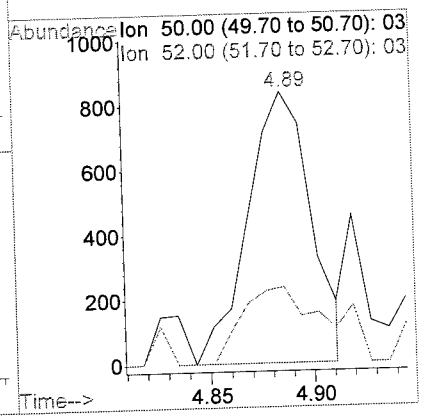
03171105.D 031411.M Thu Mar 17 13:54:55 2011

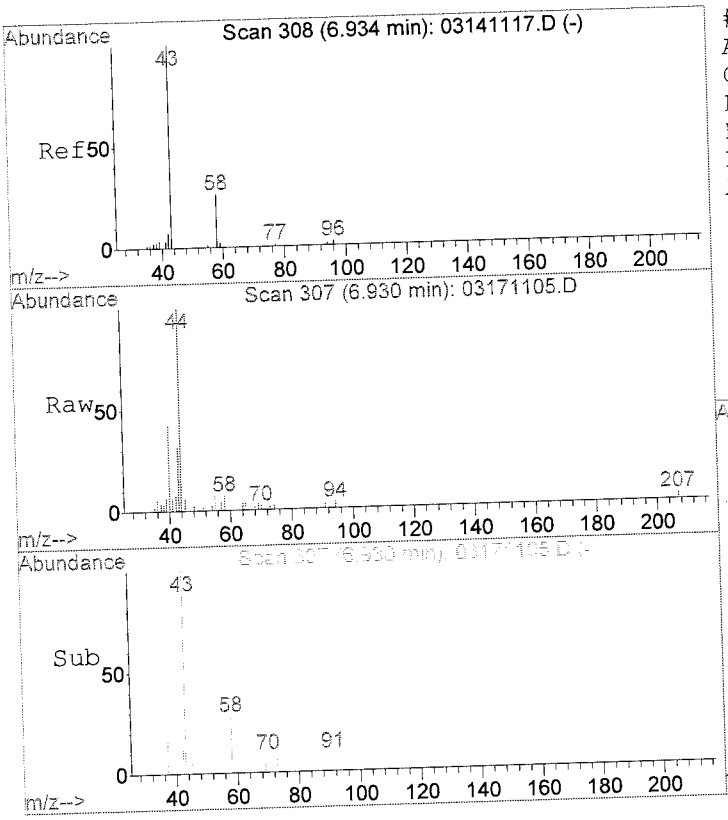


#3
Chloromethane
Concen: 0.14 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.4	38.2

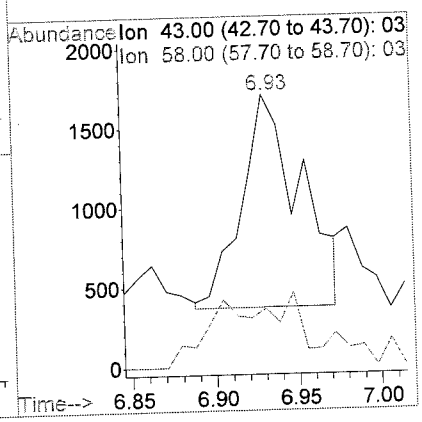


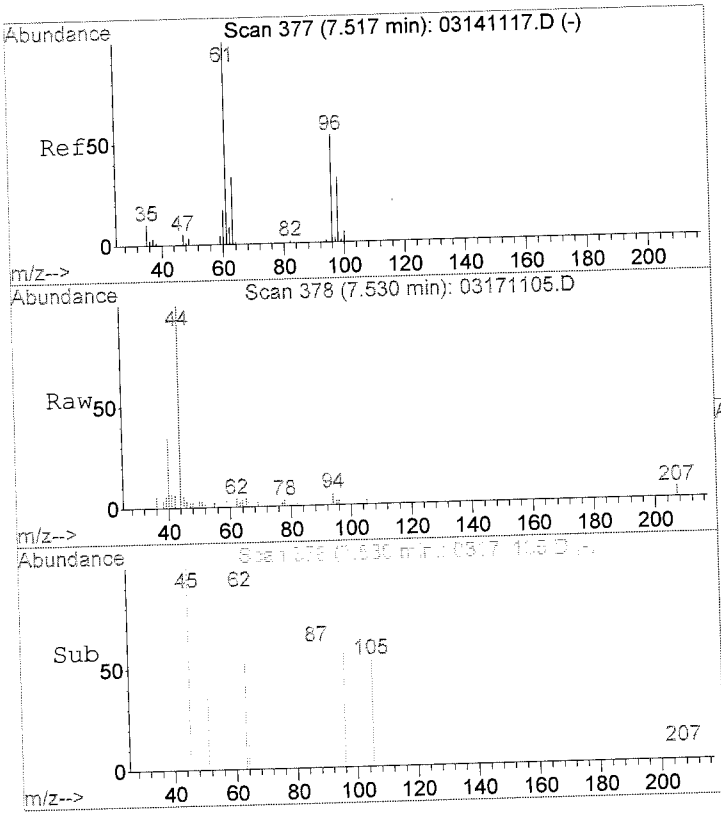


#8
Acetone
Concen: 0.96 ug/L
RT: 6.93 min Scan# 307
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

Ion	Ratio	Lower	Upper
43	100		
58	9.7	20.4	30.6#

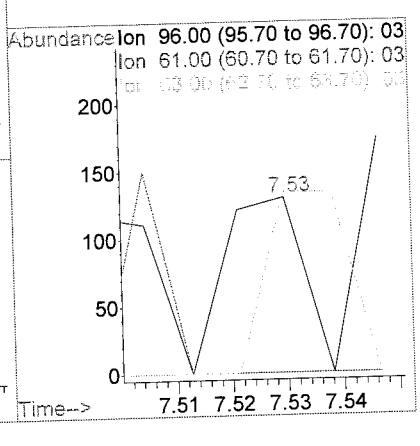


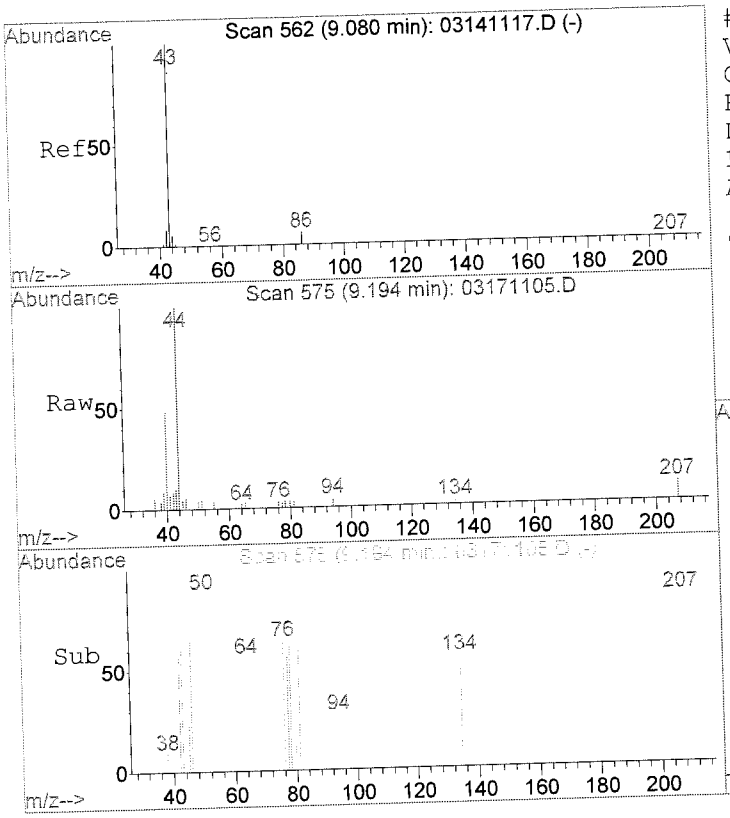


#10
1,1-Dichloroethene
Concen: Below Cal
RT: 7.53 min Scan# 378
Delta R.T. 0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 96 Resp: 127

Ion	Ratio	Lower	Upper
96	100		
61	0.0	164.0	246.0#
63	107.1	51.4	77.0#

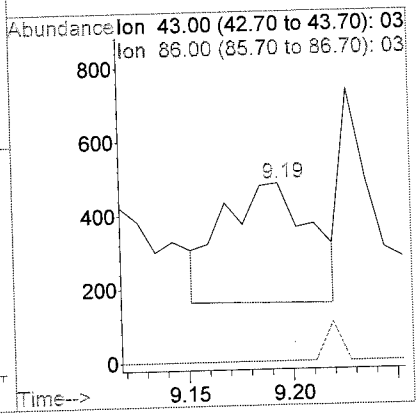


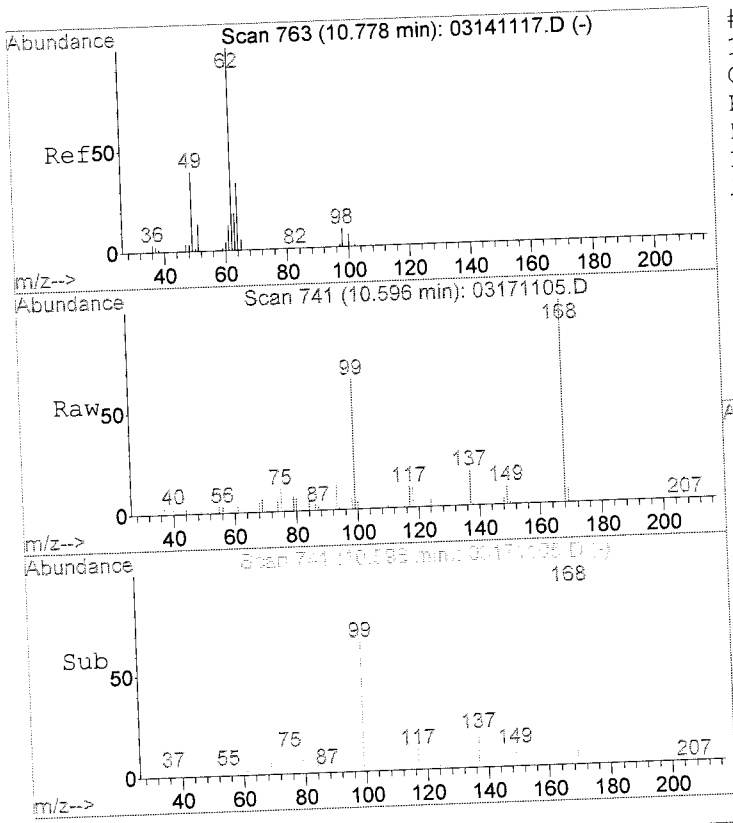


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.7	7.1#

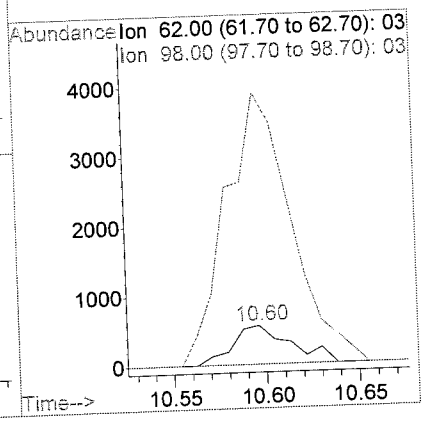


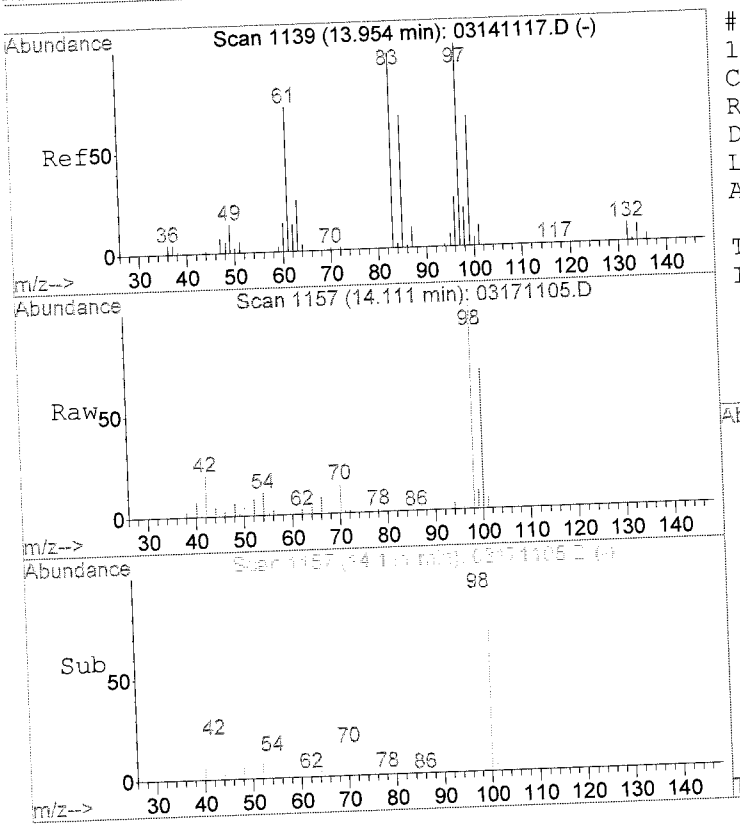


#24
1,2-Dichloroethane
Concen: 0.20 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.18 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	6.8	10.2#

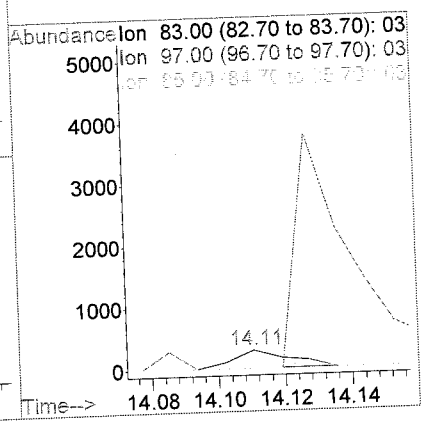


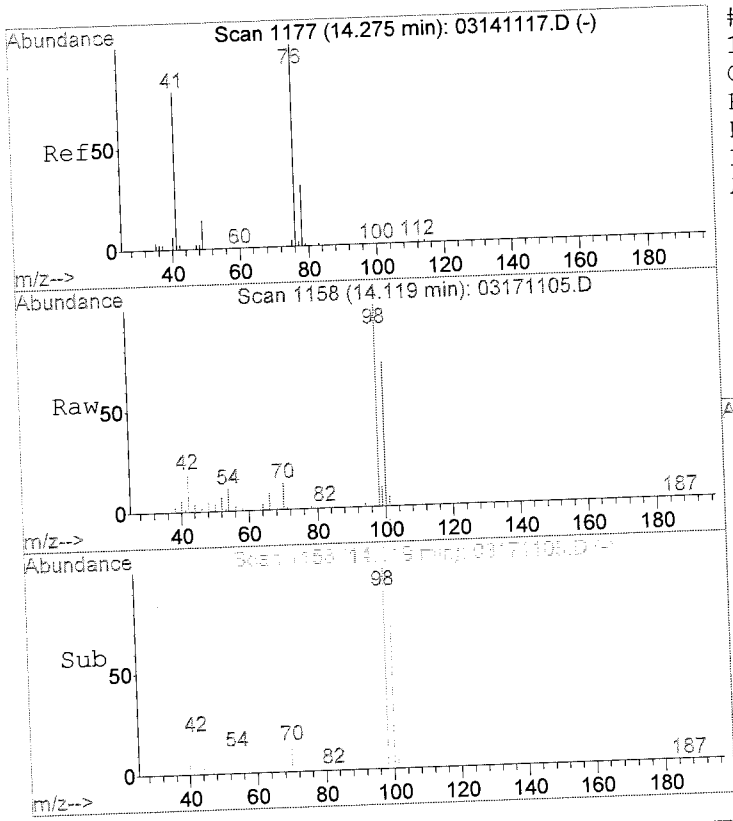


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	80.6	120.8#
85	0.0	51.4	77.0#



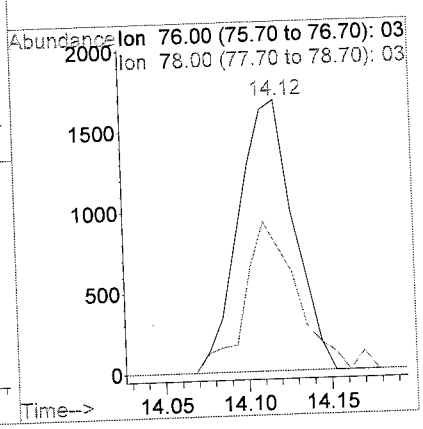


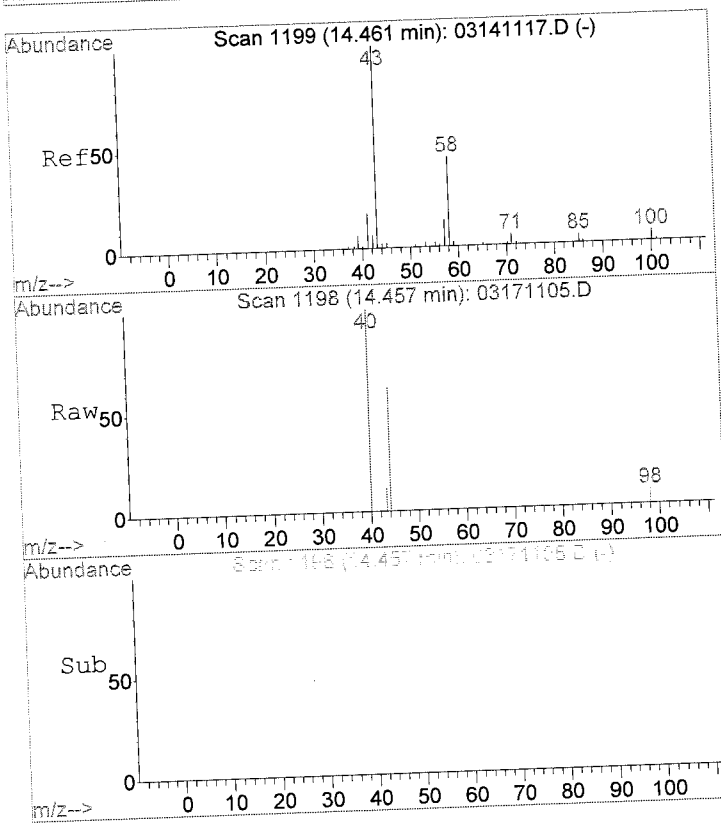
#42
1,3-Dichloropropane
Concen: 0.60 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	25.5	38.3#

WPT

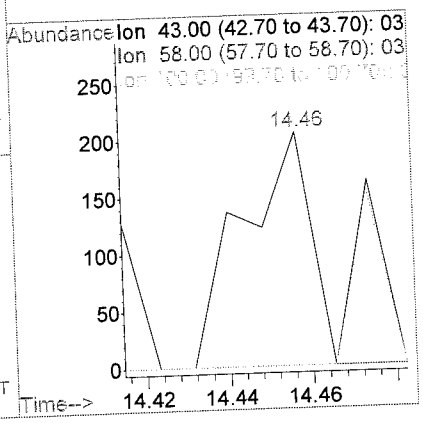


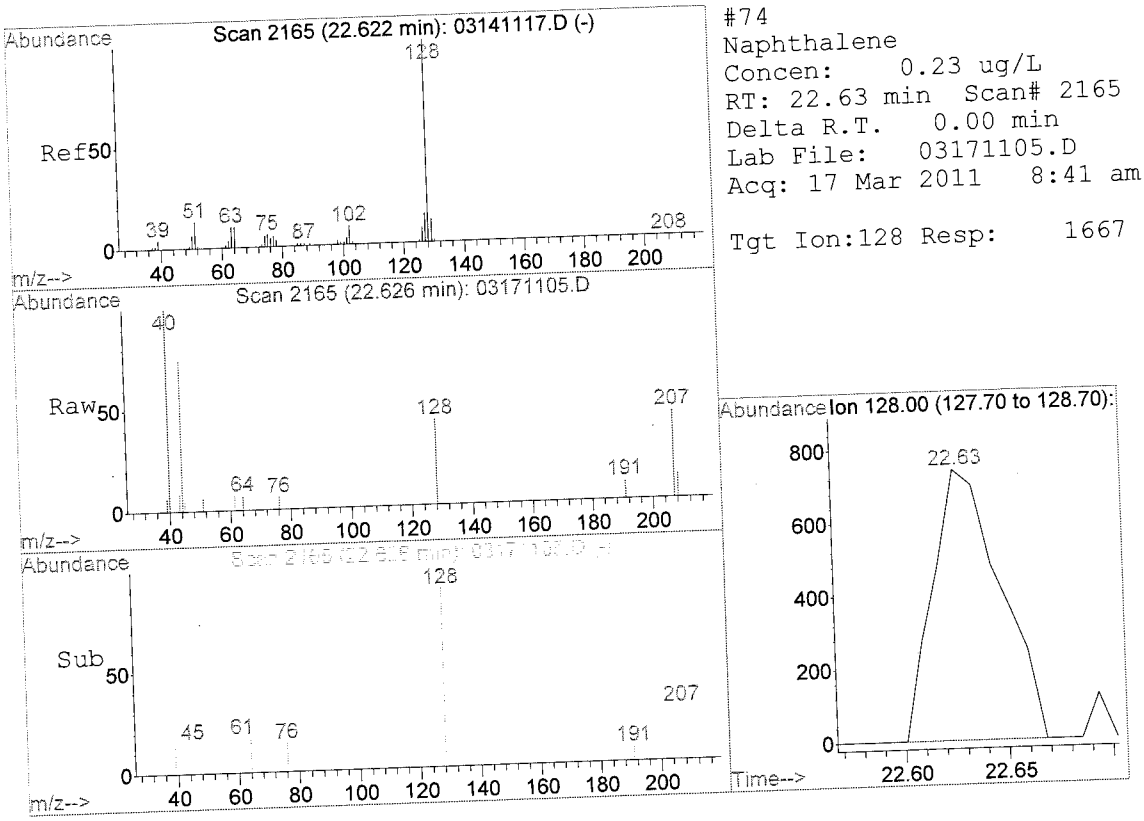


#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 235

Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.8	52.2#
100	0.0	0.0	0.0





#74
Naphthalene
Concen: 0.23 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion:128 Resp: 1667

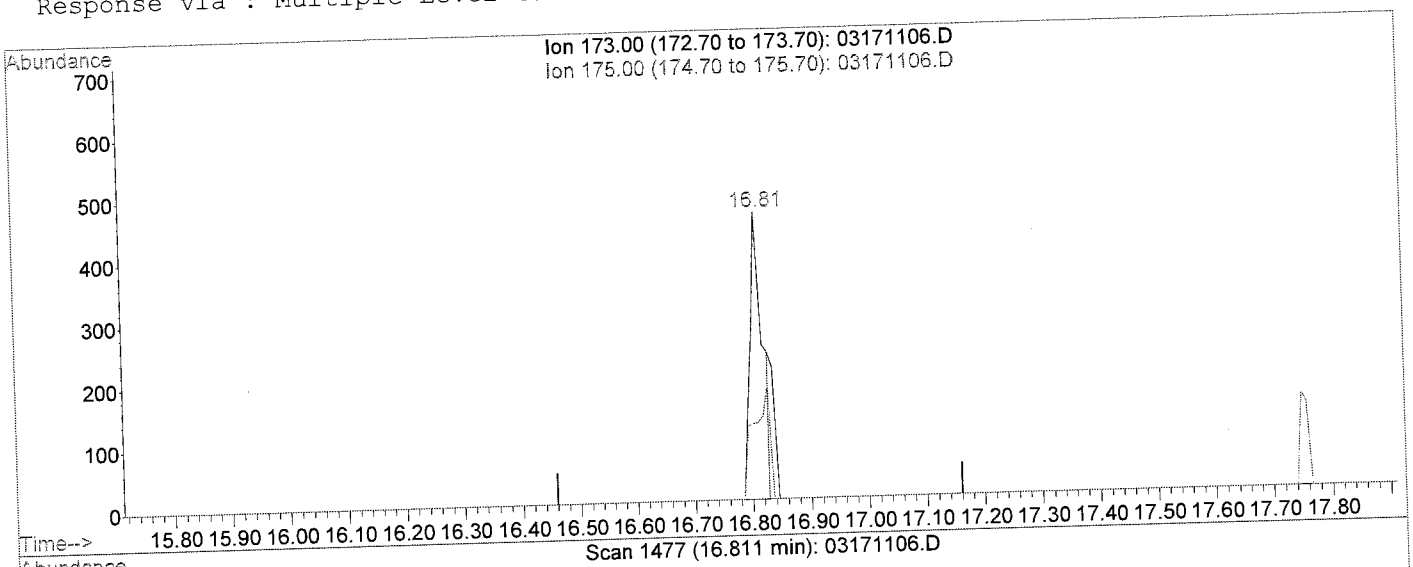
Quantitation Report (Qedit)

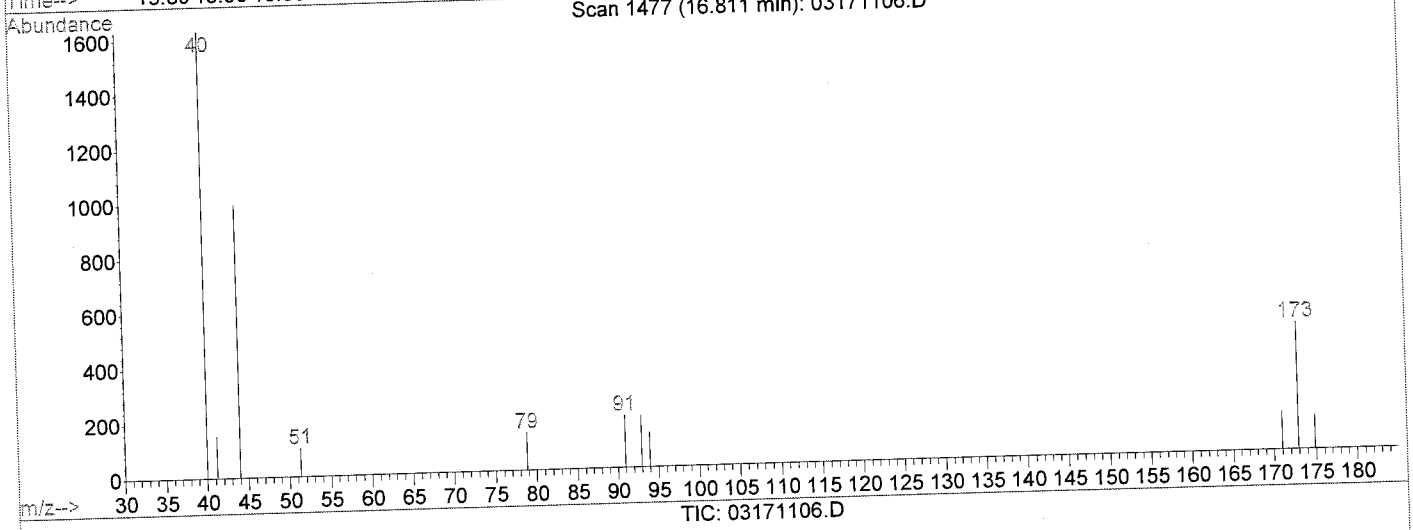
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D
Acq On : 17 Mar 2011 9:12 am
Sample : 0.5 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:55 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171106.D

(55) Bromoform (TMP)

16.81min 0.42ug/L

response 696

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	23.13#
0.00	0.00	0.00
0.00	0.00	0.00

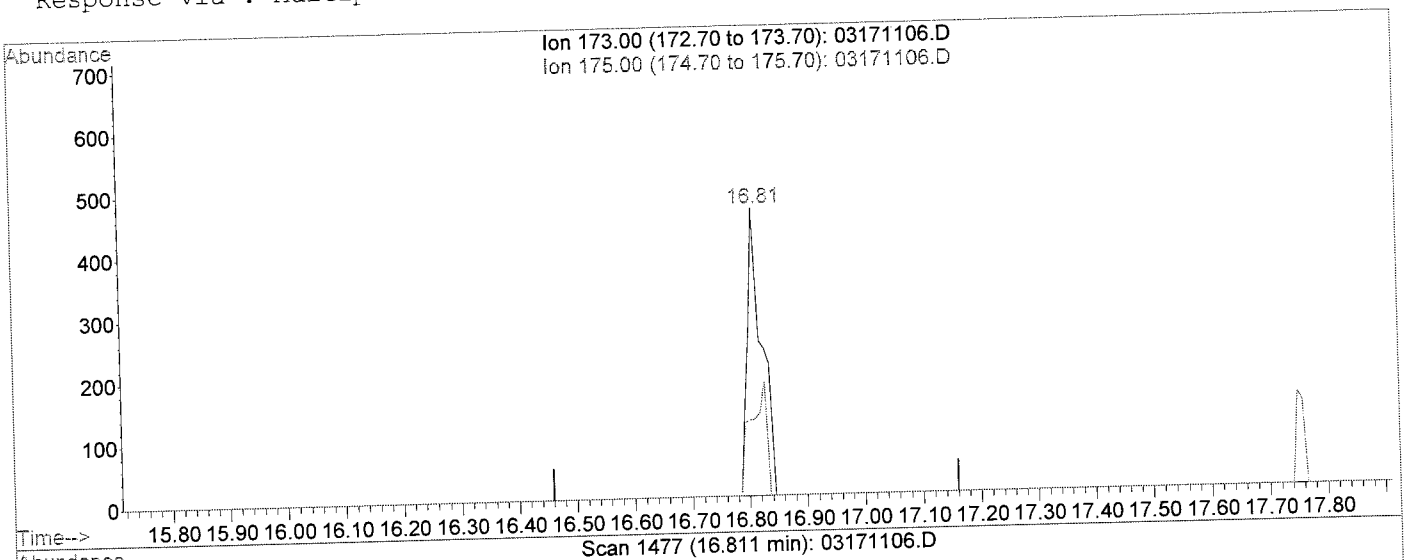
Before - SP

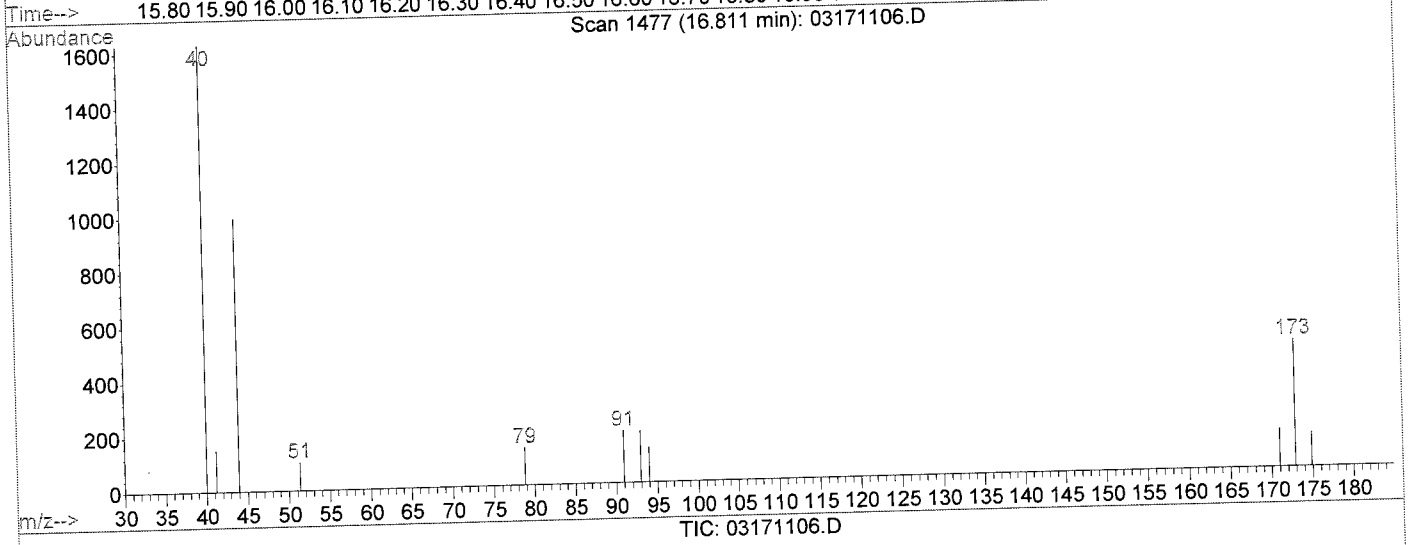
03171106.D 031411.M Thu Mar 17 13:56:05 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171106.D

(55) Bromoform (TMP)

16.81min 0.49ug/L m

response 803

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	20.05#
0.00	0.00	0.00
0.00	0.00	0.00

After

3/18/11

03171106.D 031411.M Thu Mar 17 13:56:09 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.48%	
39) Toluene-d8	14.12	98	8971	0.63 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.52%	
53) 4-Bromofluorobenzene	17.76	95	3244	0.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.60%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.53 ug/L	92
3) Chloromethane	4.89	50	6587	0.58 ug/L	96
4) Vinyl chloride	5.18	62	6003	0.54 ug/L	90
5) Bromomethane	5.78	94	3084	0.62 ug/L	90
6) Chloroethane	5.97	64	3371	0.56 ug/L #	75
7) Trichlorofluoromethane	6.77	101	4364	0.52 ug/L	93
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.58	142	1272	0.33 ug/L	95
10) 1,1-Dichloroethene	7.50	96	2883	0.40 ug/L	91
11) Methylene chloride	7.70	84	3890	0.70 ug/L	95
12) Freon 113	7.77	101	3509	0.65 ug/L	93
13) Carbon disulfide	8.02	76	10027	0.34 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	91
15) MTBE	8.73	73	5033	0.57 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.56 ug/L	97
17) Vinyl acetate	9.08	43	4816	0.58 ug/L #	82
18) 2-Butanone (MEK)	9.46	72	199	0.70 ug/L #	33
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	89
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	90
21) Chloroform	9.93	83	4941	0.56 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.52 ug/L	98
24) 1,2-Dichloroethane	10.77	62	2927	0.56 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.50 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	96
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.55 ug/L	100
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	86
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L	99
32) Trichloroethene	12.27	95	2709	0.53 ug/L	97
33) Bromodichloromethane	12.33	83	3018	0.51 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	0.56 ug/L #	56
35) cis-1,3-Dichloropropene	13.18	75	3500	0.49 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	0.00	43	0	N.D. d	
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.50 ug/L #	82
40) Toluene	14.21	92	6374	0.56 ug/L	98
42) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171106.D 031411.M Thu Mar 17 13:56:36 2011

3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

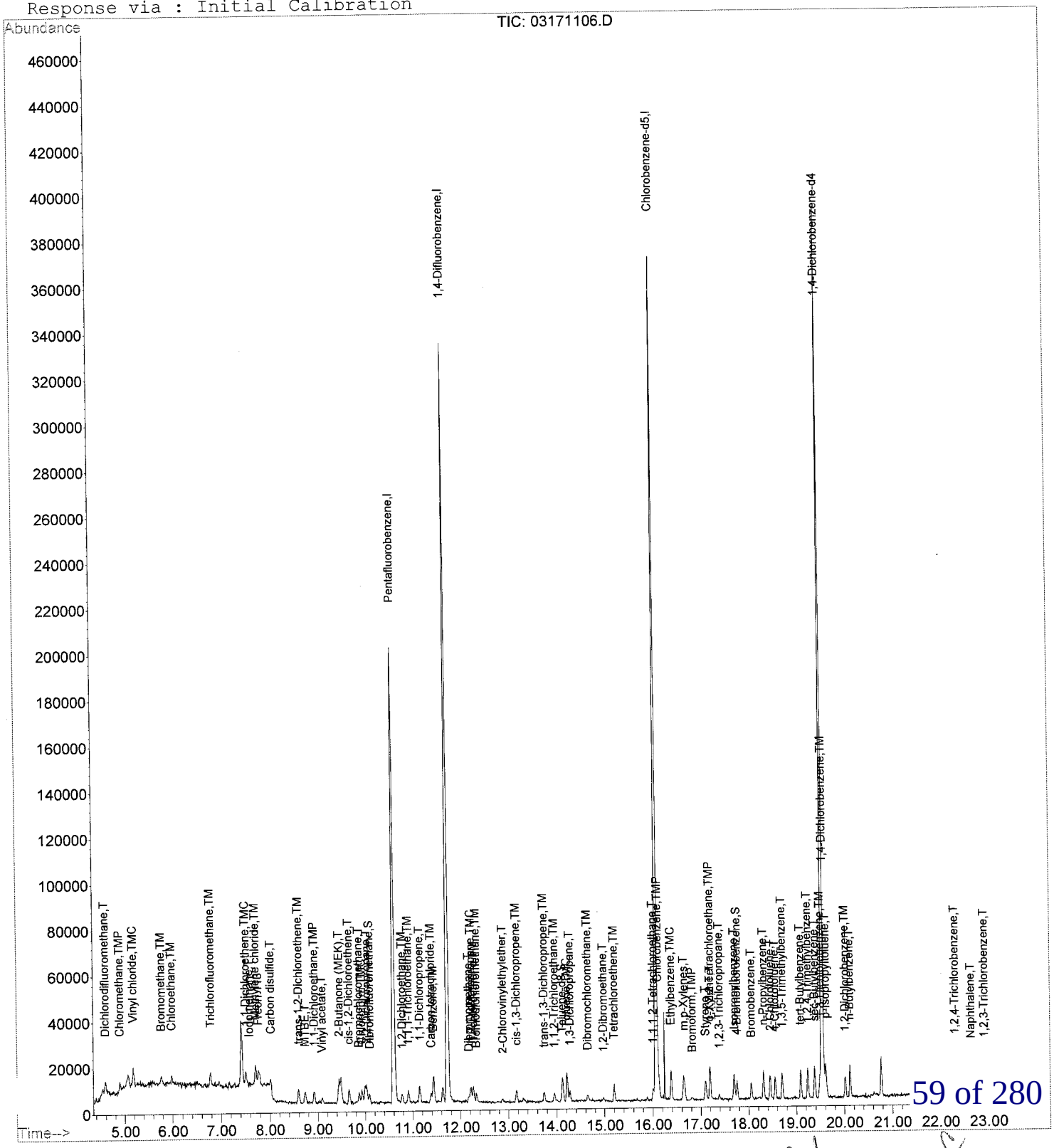
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	0.00	43	0	N.D. d	
44) Dibromochloromethane	14.65	129	2052	0.64 ug/L	84
45) 1,2-Dibromoethane	14.98	107	1293	0.48 ug/L #	76
46) Tetrachloroethene	15.21	166	2392	0.55 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.02	131	2040	0.59 ug/L #	56
48) Chlorobenzene	16.12	112	6227	0.54 ug/L	97
49) Ethylbenzene	16.38	91	11848	0.56 ug/L	94
50) m,p-Xylenes	16.64	106	4453	0.60 ug/L	94
51) Styrene	17.10	104	5086	0.44 ug/L #	77
52) o-Xylene	17.20	106	4214	0.58 ug/L	99
55) Bromoform	16.81	173	803m	0.49 ug/L	
56) 1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L #	96
57) 1,2,3-Trichloropropane	17.38	110	276	0.38 ug/L #	59
58) Isopropylbenzene	17.70	105	9284	0.51 ug/L	98
59) Bromobenzene	18.05	156	1904	0.47 ug/L	85
60) n-Propylbenzene	18.31	91	13033	0.51 ug/L	96
61) 2-Chlorotoluene	18.45	91	8427	0.57 ug/L	93
62) 4-Chlorotoluene	18.56	91	8009	0.54 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	8073	0.52 ug/L	98
64) tert-Butylbenzene	19.09	119	6647	0.50 ug/L	97
65) 1,2,4-Trimethylbenzene	19.24	105	7949	0.51 ug/L	99
66) sec-Butylbenzene	19.38	105	11380	0.51 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L	94
68) 1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L #	87
69) p-Isopropyltoluene	19.61	119	8395	0.48 ug/L	94
70) 1,2-Dichlorobenzene	20.02	146	3885	0.55 ug/L	97
71) n-Butylbenzene	20.11	91	9466	0.49 ug/L	99
72) 1,2-Dibromo-3-chloropropan	0.00	157	0	N.D. d	
73) 1,2,4-Trichlorobenzene	22.29	180	2133	0.42 ug/L	81
74) Naphthalene	22.63	128	4307	0.67 ug/L	100
75) Hexachlorobutadiene	22.69	225	1446	Below Cal #	66
76) 1,2,3-Trichlorobenzene	22.90	180	1936	0.46 ug/L	87

(#) = qualifier out of range (m) = manual integration
03171106.D 031411.M Thu Mar 17 13:56:37 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171106.D 031411.M Thu Mar 17 13:56:37 2011

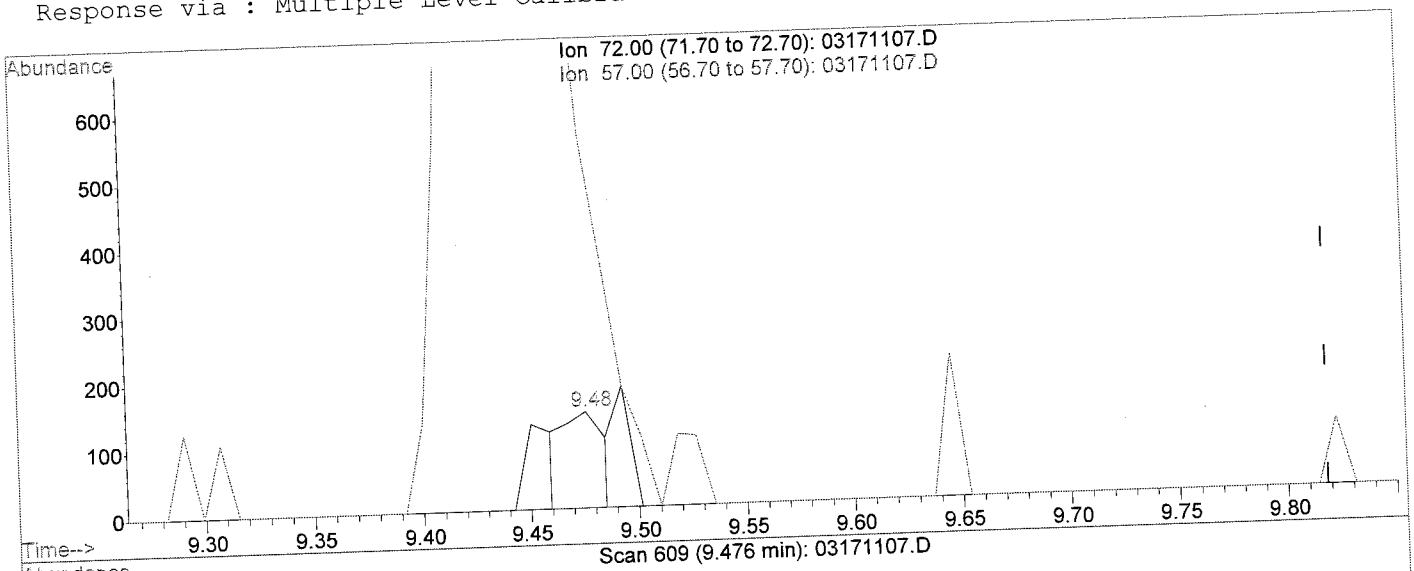
Quantitation Report (Qedit)

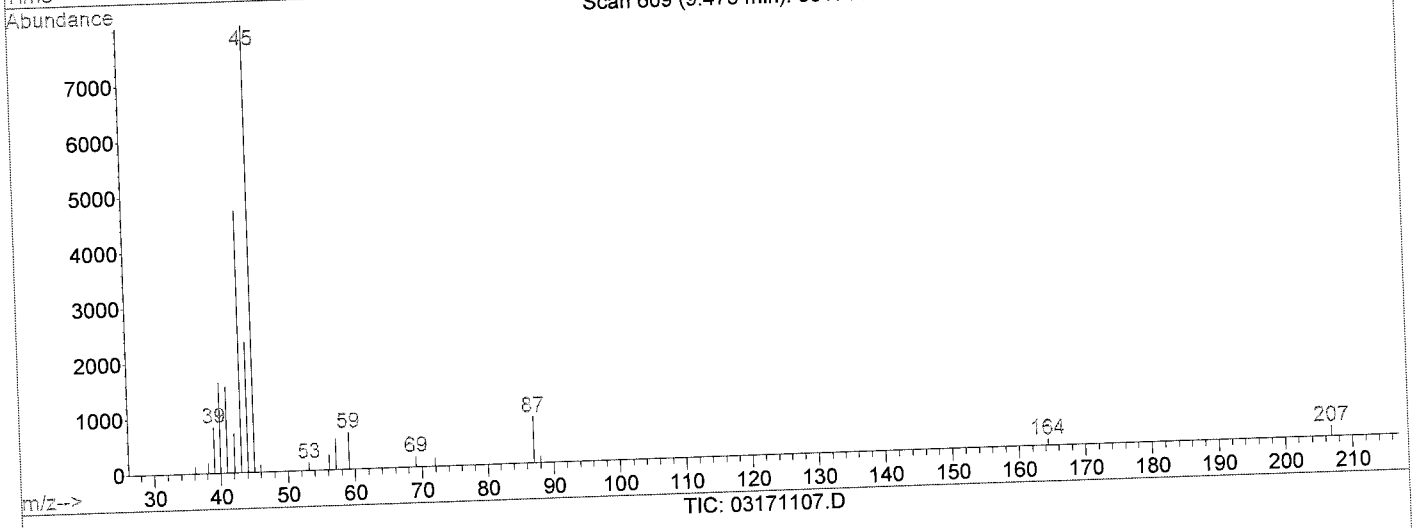
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(18) 2-Butanone (MEK) (T)

9.48min 0.69ug/L

response 190

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Before - NIP

3/18/11

03171107.D 031411.M Thu Mar 17 13:57:01 2011

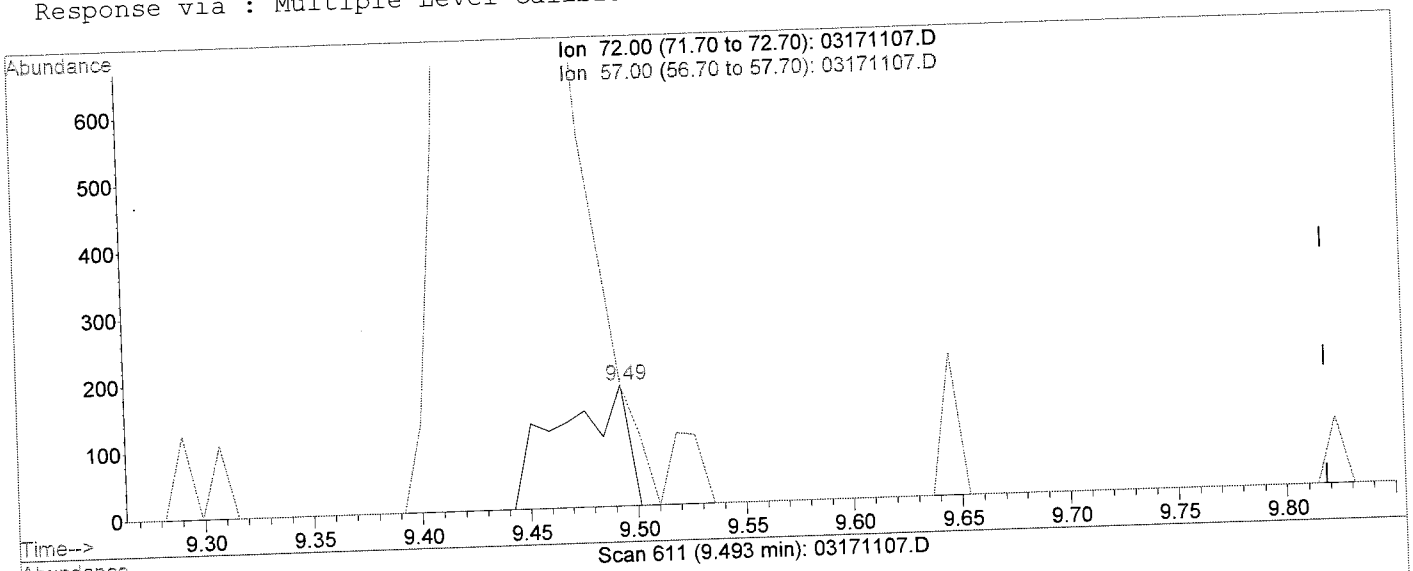
Quantitation Report (Qedit)

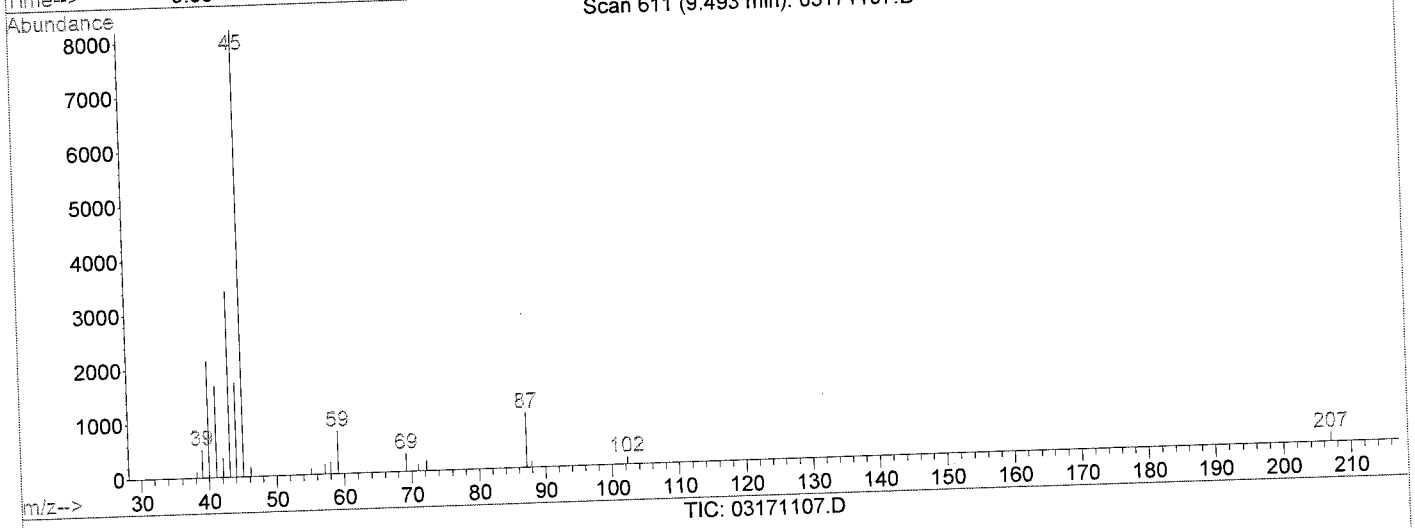
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(18) 2-Butanone (MEK) (T)

9.49min 1.46ug/L m

response 405

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

After

3/18/11

03171107.D 031411.M Thu Mar 17 13:57:08 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	1.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.00%	
39) Toluene-d8	14.12	98	14880	1.07 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.28%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.94 ug/L	95
3) Chloromethane	4.89	50	11297	1.01 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.07 ug/L #	84
5) Bromomethane	5.77	94	5200	1.07 ug/L	90
6) Chloroethane	5.98	64	6815	1.17 ug/L	90
7) Trichlorofluoromethane	6.77	101	8152	1.00 ug/L	92
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.57	142	3864	1.02 ug/L #	83
10) 1,1-Dichloroethene	7.51	96	5486	1.05 ug/L	95
11) Methylene chloride	7.70	84	6767	1.24 ug/L	93
12) Freon 113	7.78	101	6284	1.18 ug/L	96
13) Carbon disulfide	8.02	76	17829	0.89 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.20 ug/L	83
15) MTBE	8.73	73	10605	1.24 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.17 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.23 ug/L #	92
18) 2-Butanone (MEK)	9.49	72	405m	1.46 ug/L	
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	96
21) Chloroform	9.93	83	8465	0.98 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.97 ug/L	92
24) 1,2-Dichloroethane	10.78	62	5936	1.16 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.95 ug/L	95
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	94
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.03 ug/L	98
30) Dibromomethane	12.17	93	2529	1.07 ug/L	96
31) 1,2-Dichloropropane	12.21	63	5383	0.97 ug/L #	88
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.97 ug/L	87
34) 2-Chlorovinylethylether	12.86	63	1739	1.28 ug/L #	82
35) cis-1,3-Dichloropropene	13.18	75	6952	0.99 ug/L	94
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.11 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.97 ug/L #	82
40) Toluene	14.22	92	10459	0.94 ug/L	91
42) 1,3-Dichloropropane	14.27	76	5543	0.99 ug/L #	73

(#) = qualifier out of range (m) = manual integration
03171107.D 031411.M Thu Mar 17 13:57:42 2011

LC 3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

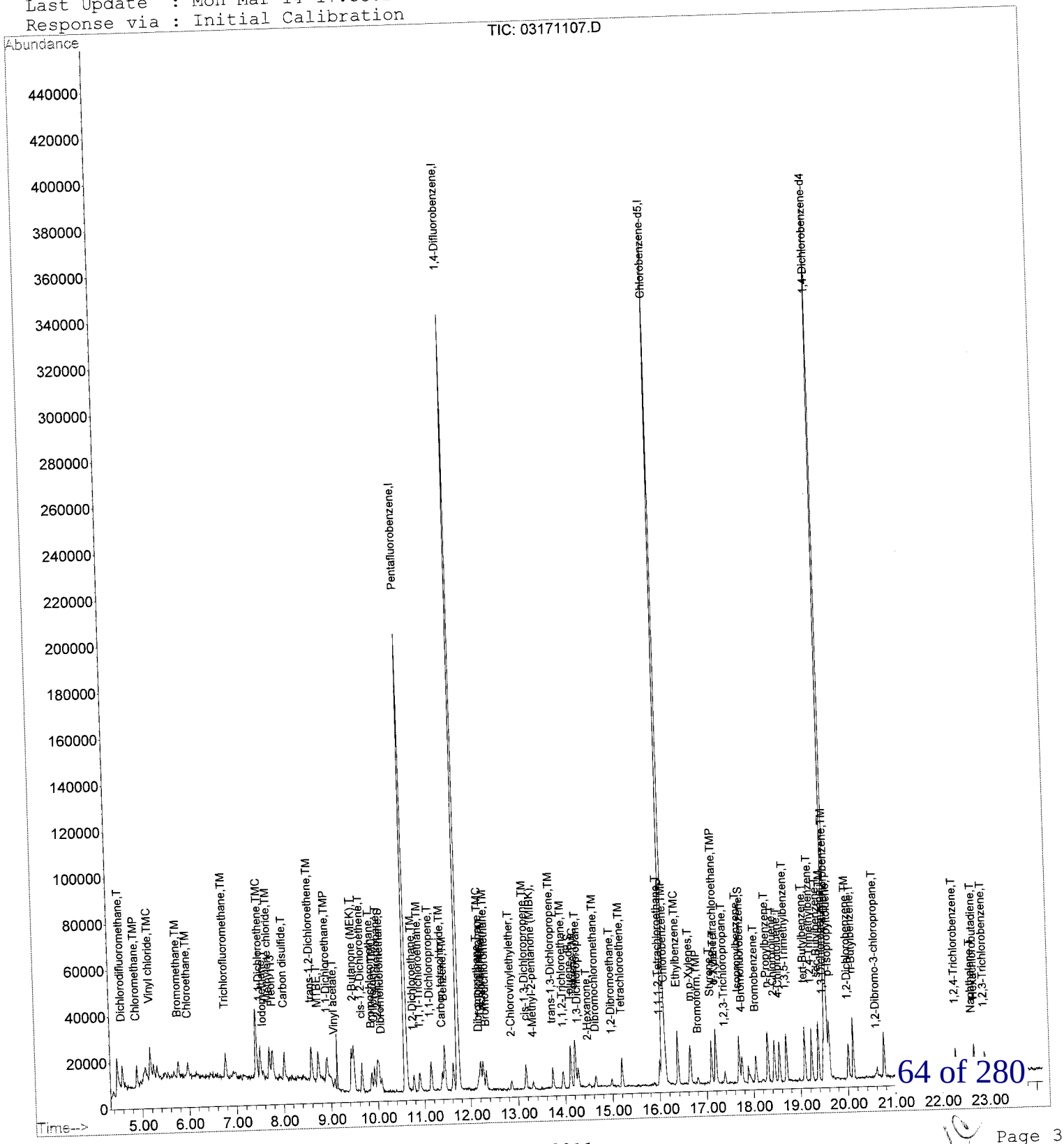
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2515	1.31 ug/L #	77
44) Dibromochloromethane	14.65	129	2863	0.89 ug/L	98
45) 1,2-Dibromoethane	14.98	107	2446	0.90 ug/L #	78
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L	93
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.03 ug/L #	58
48) Chlorobenzene	16.12	112	10976	0.96 ug/L	92
49) Ethylbenzene	16.38	91	20598	0.97 ug/L	99
50) m,p-Xylenes	16.64	106	6910	0.93 ug/L	92
51) Styrene	17.10	104	10355	0.90 ug/L	98
52) o-Xylene	17.20	106	7210	1.00 ug/L	90
55) Bromoform	16.81	173	1545	0.97 ug/L #	72
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L #	89
57) 1,2,3-Trichloropropane	17.38	110	807	1.14 ug/L	98
58) Isopropylbenzene	17.70	105	16311	0.92 ug/L	100
59) Bromobenzene	18.05	156	3839	0.96 ug/L	97
60) n-Propylbenzene	18.30	91	23854	0.96 ug/L	99
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L	96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L	96
64) tert-Butylbenzene	19.09	119	12127	0.94 ug/L	96
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.95 ug/L	100
66) sec-Butylbenzene	19.38	105	21187	0.96 ug/L	97
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L	93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L	98
69) p-Isopropyltoluene	19.61	119	15312	0.90 ug/L	98
70) 1,2-Dichlorobenzene	20.02	146	6687	0.96 ug/L	99
71) n-Butylbenzene	20.11	91	17346	0.92 ug/L	96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.90 ug/L	89
73) 1,2,4-Trichlorobenzene	22.28	180	4683	0.95 ug/L	94
74) Naphthalene	22.63	128	5978	0.95 ug/L	100
75) Hexachlorobutadiene	22.68	225	2850	0.43 ug/L	90
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.84 ug/L	94

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration

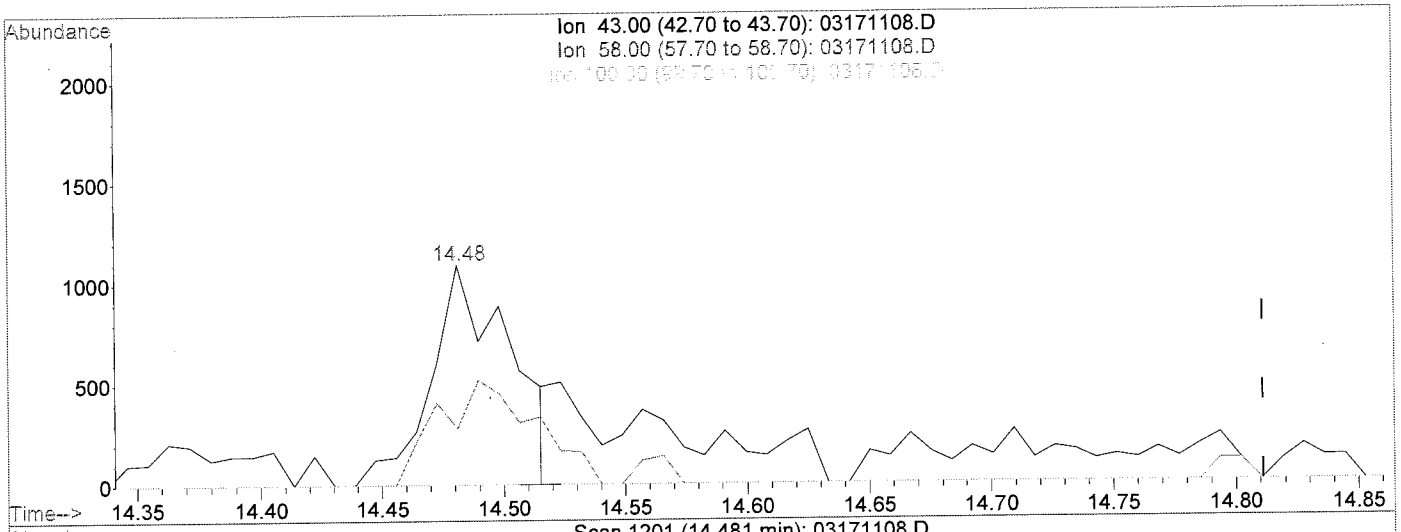


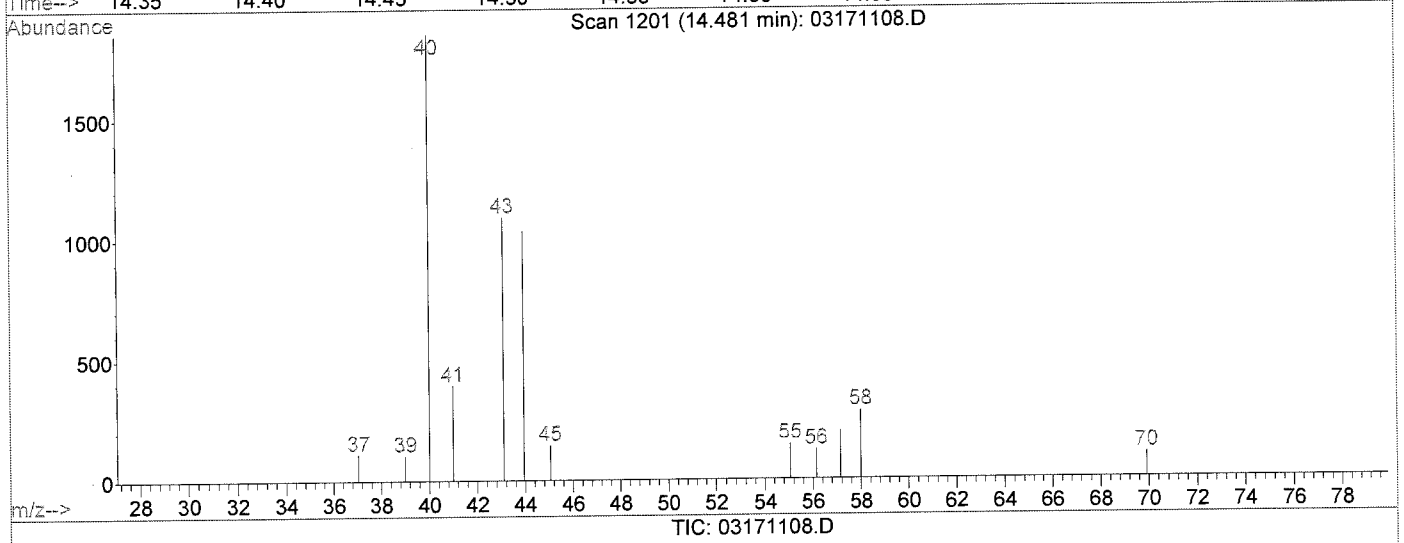
03171107.D 031411.M Thu Mar 17 13:57:42 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171108.D

(43) 2-Hexanone (T)

14.48min 1.28ug/L

response 2474

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	39.81
100.00	0.00	0.00
0.00	0.00	0.00

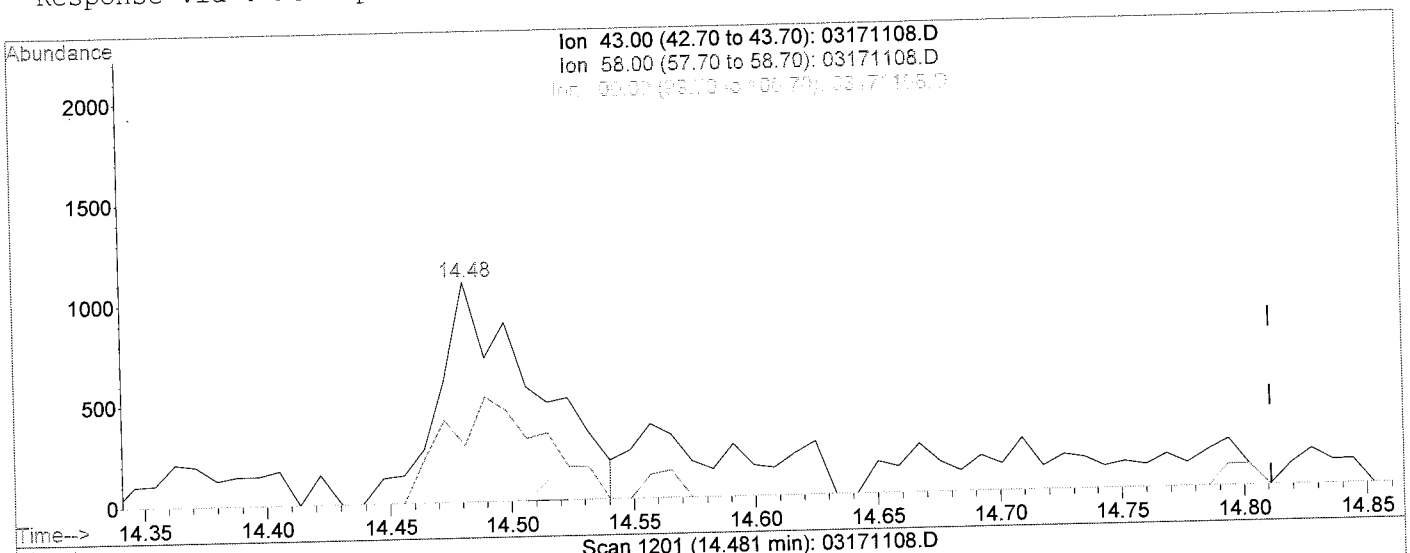
Before - NIP

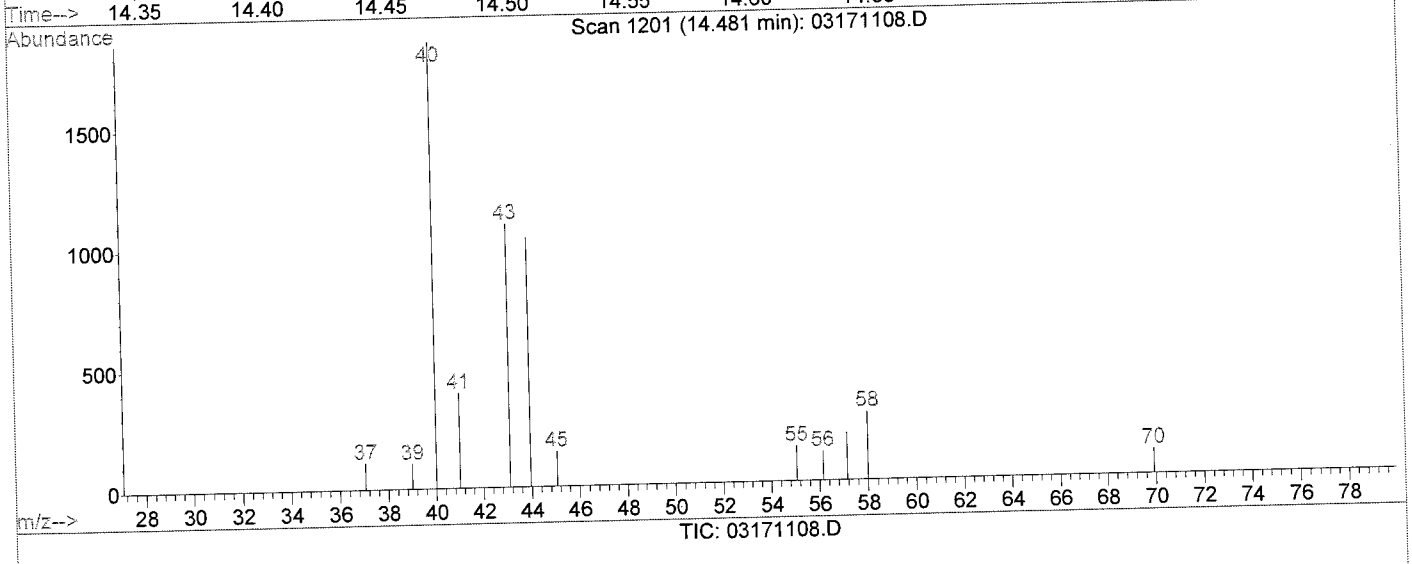
03171108.D 031411.M Thu Mar 17 13:59:09 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(43) 2-Hexanone (T)

14.48min 1.55ug/L m

response 2999

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	32.84#
100.00	0.00	0.00
0.00	0.00	0.00

After

MJ

03171108.D 031411.M Thu Mar 17 13:59:17 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.80%	
39) Toluene-d8	14.12	98	28802	2.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.16%	
53) 4-Bromofluorobenzene	17.75	95	10411	2.08 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.32%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.95 ug/L	94
3) Chloromethane	4.89	50	22795	2.00 ug/L	97
4) Vinyl chloride	5.18	62	22297	2.00 ug/L	95
5) Bromomethane	5.77	94	6970	1.41 ug/L	95
6) Chloroethane	5.98	64	11754	1.97 ug/L #	85
7) Trichlorofluoromethane	6.78	101	16143	1.94 ug/L	100
8) Acetone	6.94	43	4997	2.62 ug/L	97
9) Iodomethane	7.57	142	5343	1.38 ug/L	96
10) 1,1-Dichloroethene	7.51	96	8308	1.69 ug/L	98
11) Methylene chloride	7.71	84	10726	1.93 ug/L	97
12) Freon 113	7.77	101	10221	1.89 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.70 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.85 ug/L	97
15) MTBE	8.73	73	16615	1.90 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.93 ug/L	99
17) Vinyl acetate	9.08	43	14566	1.77 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	0.63 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.03 ug/L	91
20) Bromochloromethane	9.88	128	3627	1.82 ug/L	89
21) Chloroform	9.93	83	18162	2.07 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.91 ug/L	96
24) 1,2-Dichloroethane	10.78	62	10721	2.06 ug/L #	94
25) 1,1,1-Trichloroethane	10.91	97	12034	1.83 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	99
28) Carbon tetrachloride	11.38	117	9830	1.86 ug/L	94
29) Benzene	11.44	78	39494	1.97 ug/L	99
30) Dibromomethane	12.17	93	4597	1.92 ug/L	90
31) 1,2-Dichloropropane	12.22	63	10960	1.95 ug/L #	94
32) Trichloroethene	12.27	95	9761	1.93 ug/L	94
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.91 ug/L #	85
35) cis-1,3-Dichloropropene	13.16	75	13465	1.88 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.68 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.85 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.91 ug/L	94
40) Toluene	14.21	92	22811	2.03 ug/L	97
42) 1,3-Dichloropropane	14.28	76	10418	1.86 ug/L	92

(#) = qualifier out of range (m) = manual integration
03171108.D 031411.M Thu Mar 17 13:59:31 2011

2/1 1/11/13
03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2999m	1.55 ug/L	
44) Dibromochloromethane	14.65	129	6238	1.94 ug/L	97
45) 1,2-Dibromoethane	14.99	107	5443	1.99 ug/L #	100
46) Tetrachloroethene	15.21	166	8224	1.88 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	6797	1.94 ug/L	95
48) Chlorobenzene	16.12	112	21803	1.89 ug/L	90
49) Ethylbenzene	16.38	91	40622	1.91 ug/L	99
50) m,p-Xylenes	16.64	106	14567	1.95 ug/L	99
51) Styrene	17.09	104	21955	1.91 ug/L	100
52) o-Xylene	17.19	106	14080	1.95 ug/L	98
55) Bromoform	16.81	173	2978	1.87 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L	95
57) 1,2,3-Trichloropropane	17.40	110	1450	2.05 ug/L	99
58) Isopropylbenzene	17.69	105	34246	1.94 ug/L	99
59) Bromobenzene	18.05	156	7927	1.99 ug/L	98
60) n-Propylbenzene	18.30	91	47531	1.91 ug/L	99
61) 2-Chlorotoluene	18.44	91	27642	1.93 ug/L	99
62) 4-Chlorotoluene	18.55	91	28051	1.96 ug/L	99
63) 1,3,5-Trimethylbenzene	18.71	105	28488	1.90 ug/L	97
64) tert-Butylbenzene	19.09	119	24316	1.89 ug/L	95
65) 1,2,4-Trimethylbenzene	19.24	105	29321	1.92 ug/L	96
66) sec-Butylbenzene	19.38	105	43119	1.97 ug/L	96
67) 1,3-Dichlorobenzene	19.48	146	16064	1.97 ug/L	96
68) 1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L	97
69) p-Isopropyltoluene	19.61	119	32053	1.88 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	13744	1.99 ug/L	99
71) n-Butylbenzene	20.12	91	35106	1.86 ug/L	97
72) 1,2-Dibromo-3-chloropropan	20.59	157	972	2.24 ug/L #	75
73) 1,2,4-Trichlorobenzene	22.29	180	8342	1.70 ug/L	96
74) Naphthalene	22.63	128	10824	1.73 ug/L	100
75) Hexachlorobutadiene	22.68	225	5711	1.50 ug/L	98
76) 1,2,3-Trichlorobenzene	22.90	180	7016	1.72 ug/L	94

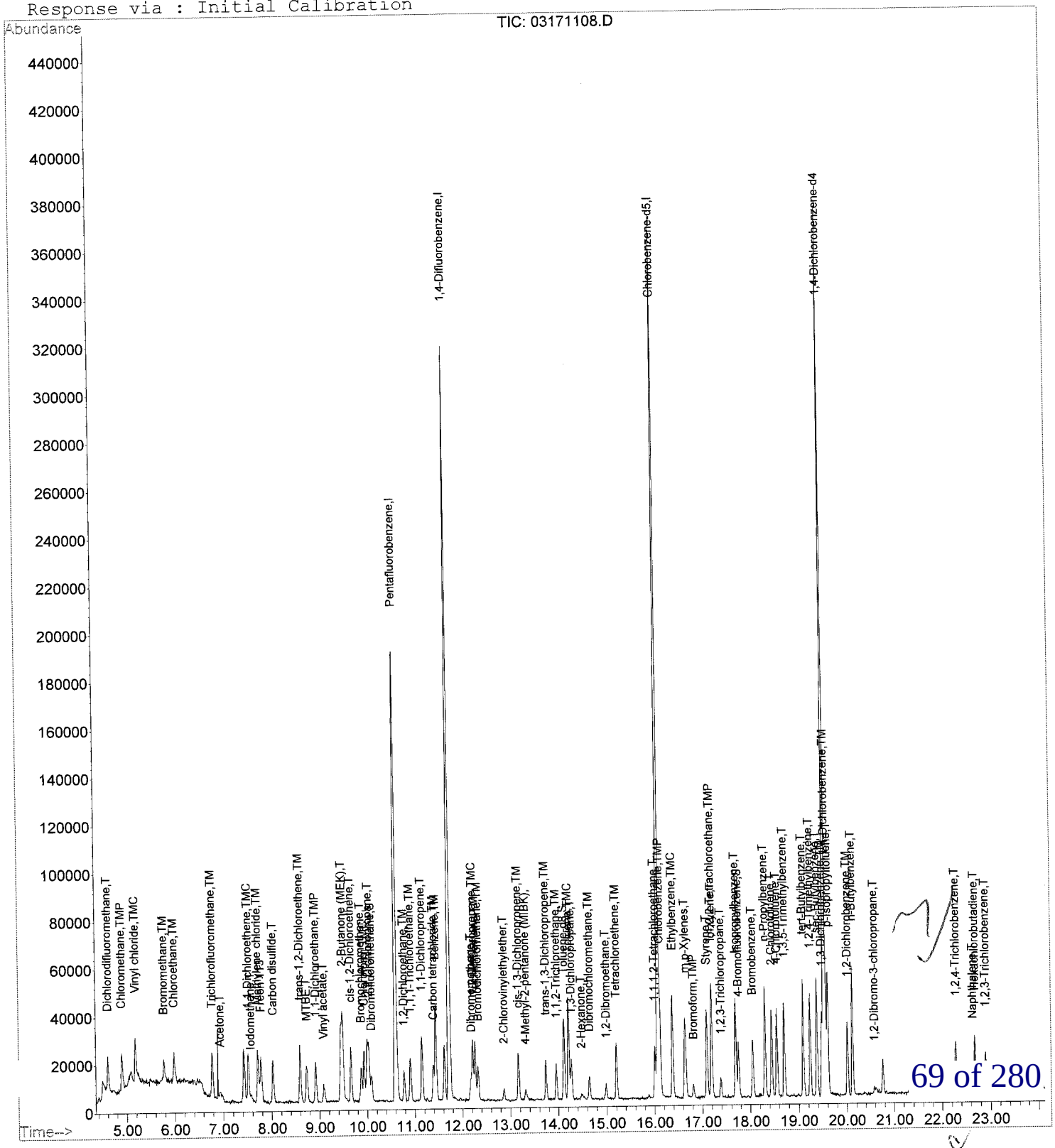
m)

(#) = qualifier out of range (m) = manual integration
03171108.D 031411.M Thu Mar 17 13:59:31 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171108.D 031411.M Thu Mar 17 13:59:32 2011 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.84 ug/L	0.00
Spiked Amount 25.000			Recovery	= 23.36%	
39) Toluene-d8	14.12	98	75601	5.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.36%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.84%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.56 ug/L	98
3) Chloromethane	4.90	50	69304	6.20 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.46 ug/L	97
5) Bromomethane	5.77	94	23286	4.82 ug/L	97
6) Chloroethane	5.98	64	31380	5.37 ug/L	97
7) Trichlorofluoromethane	6.78	101	44900	5.49 ug/L	98
8) Acetone	6.94	43	8551	5.67 ug/L	96
9) Iodomethane	7.57	142	19144	5.06 ug/L	100
10) 1,1-Dichloroethene	7.51	96	23635	5.45 ug/L	96
11) Methylene chloride	7.71	84	29505	5.41 ug/L	98
12) Freon 113	7.78	101	28220	5.32 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.39 ug/L	89
15) MTBE	8.74	73	47481	5.54 ug/L	98
16) 1,1-Dichloroethane	8.92	63	57409	5.51 ug/L	100
17) Vinyl acetate	9.09	43	45219	5.60 ug/L	97
18) 2-Butanone (MEK)	9.47	72	1224	4.43 ug/L #	38
19) cis-1,2-Dichloroethene	9.66	96	29437	5.59 ug/L	93
20) Bromochloromethane	9.87	128	11063	5.67 ug/L	98
21) Chloroform	9.93	83	49311	5.72 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.50 ug/L	98
24) 1,2-Dichloroethane	10.78	62	29254	5.73 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.44 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.37 ug/L	98
29) Benzene	11.44	78	106054	5.27 ug/L	99
30) Dibromomethane	12.17	93	12758	5.32 ug/L	96
31) 1,2-Dichloropropane	12.21	63	30926	5.49 ug/L	98
32) Trichloroethene	12.26	95	27719	5.47 ug/L	93
33) Bromodichloromethane	12.33	83	32710	5.51 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.30 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	39480	5.52 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	4.84 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.29 ug/L	99
40) Toluene	14.21	92	60380	5.37 ug/L	100
42) 1,3-Dichloropropane	14.27	76	31749	5.61 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171109.D 031411.M Thu Mar 17 14:00:04 2011

M 3/17/11
LC 3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

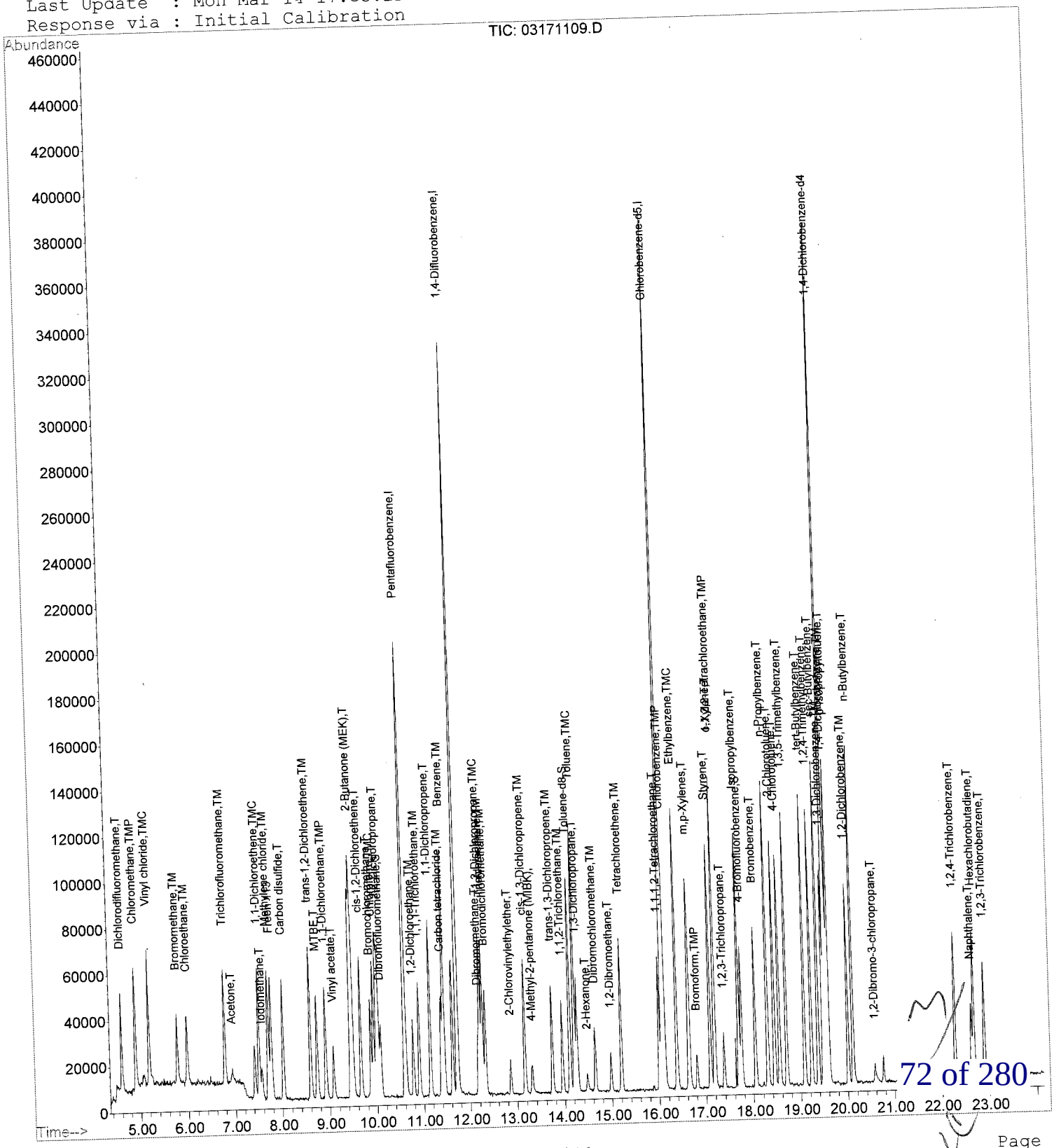
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	10625	5.44 ug/L #	92
44) Dibromochloromethane	14.64	129	17145	5.27 ug/L	98
45) 1,2-Dibromoethane	14.98	107	15883	5.75 ug/L #	97
46) Tetrachloroethene	15.21	166	22589	5.10 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.00	131	18388	5.20 ug/L	97
48) Chlorobenzene	16.12	112	60084	5.16 ug/L	96
49) Ethylbenzene	16.38	91	112334	5.23 ug/L	100
50) m,p-Xylenes	16.64	106	39718	5.25 ug/L	100
51) Styrene	17.09	104	62548	5.37 ug/L	99
52) o-Xylene	17.20	106	38050	5.20 ug/L	99
55) Bromoform	16.81	173	9209	5.63 ug/L	92
56) 1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L	97
57) 1,2,3-Trichloropropane	17.38	110	4203	5.79 ug/L	86
58) Isopropylbenzene	17.69	105	91339	5.05 ug/L	98
59) Bromobenzene	18.05	156	21568	5.28 ug/L	97
60) n-Propylbenzene	18.30	91	134531	5.26 ug/L	97
61) 2-Chlorotoluene	18.45	91	75803	5.15 ug/L	100
62) 4-Chlorotoluene	18.55	91	77070	5.24 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	79213	5.14 ug/L	100
64) tert-Butylbenzene	19.09	119	66536	5.03 ug/L	97
65) 1,2,4-Trimethylbenzene	19.23	105	78965	5.03 ug/L	100
66) sec-Butylbenzene	19.37	105	115485	5.13 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	42641	5.08 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L	97
69) p-Isopropyltoluene	19.60	119	87337	5.00 ug/L	97
70) 1,2-Dichlorobenzene	20.01	146	38242	5.39 ug/L	99
71) n-Butylbenzene	20.12	91	99714	5.16 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	2137	4.80 ug/L	95
73) 1,2,4-Trichlorobenzene	22.28	180	24323	4.82 ug/L	99
74) Naphthalene	22.63	128	32491	5.06 ug/L	100
75) Hexachlorobutadiene	22.68	225	14709	4.71 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	20581	4.91 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031411.M Thu Mar 17 14:00:04 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171109.D 031411.M Thu Mar 17 14:00:05 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.76 ug/L	0.00
Spiked Amount 25.000			Recovery = 43.04%		
39) Toluene-d8	14.12	98	143321	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery = 40.72%		
53) 4-Bromofluorobenzene	17.75	95	50923	10.16 ug/L	0.00
Spiked Amount 25.000			Recovery = 40.64%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	9.93 ug/L	100
3) Chloromethane	4.89	50	135497	11.91 ug/L	99
4) Vinyl chloride	5.19	62	111850	10.07 ug/L	100
5) Bromomethane	5.78	94	53427	10.86 ug/L	91
6) Chloroethane	5.98	64	63788	10.72 ug/L	98
7) Trichlorofluoromethane	6.78	101	85392	10.27 ug/L	99
8) Acetone	6.94	43	11502	8.08 ug/L	97
9) Iodomethane	7.57	142	36401	9.45 ug/L	95
10) 1,1-Dichloroethene	7.51	96	46909	10.89 ug/L	94
11) Methylene chloride	7.71	84	55460	9.98 ug/L	99
12) Freon 113	7.78	101	52409	9.70 ug/L	99
13) Carbon disulfide	8.03	76	162804	10.64 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.90 ug/L	94
15) MTBE	8.74	73	84759	9.71 ug/L	96
16) 1,1-Dichloroethane	8.92	63	108838	10.26 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.96 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	9.44 ug/L	88
19) cis-1,2-Dichloroethene	9.66	96	53573	9.99 ug/L	98
20) Bromochloromethane	9.88	128	20976	10.55 ug/L	100
21) Chloroform	9.93	83	95119	10.84 ug/L	100
22) 2,2-Dichloropropane	10.04	77	73939	10.10 ug/L	98
24) 1,2-Dichloroethane	10.77	62	53618	10.31 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	66517	10.14 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.21 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.31 ug/L	98
29) Benzene	11.44	78	201076	10.05 ug/L	100
30) Dibromomethane	12.17	93	24596	10.31 ug/L	96
31) 1,2-Dichloropropane	12.21	63	55294	9.87 ug/L	100
32) Trichloroethene	12.27	95	49861	9.89 ug/L	98
33) Bromodichloromethane	12.33	83	60334	10.22 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	9.32 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	73950	10.38 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.23 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.24 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	27640	10.13 ug/L	97
40) Toluene	14.21	92	114354	10.22 ug/L	100
42) 1,3-Dichloropropane	14.27	76	56624	10.10 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171110.D 031411.M Thu Mar 17 14:00:50 2011

3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	17603	9.10 ug/L #	96
44) Dibromochloromethane	14.64	129	32389	10.06 ug/L	100
45) 1,2-Dibromoethane	14.98	107	28536	10.44 ug/L	98
46) Tetrachloroethene	15.21	166	44478	10.14 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	35495	10.14 ug/L	99
48) Chlorobenzene	16.12	112	113625	9.85 ug/L	100
49) Ethylbenzene	16.38	91	215370	10.13 ug/L	100
50) m,p-Xylenes	16.64	106	74201	9.90 ug/L	98
51) Styrene	17.09	104	115227	9.99 ug/L	98
52) o-Xylene	17.20	106	71920	9.92 ug/L	97
55) Bromoform	16.81	173	16316	10.52 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L #	99
57) 1,2,3-Trichloropropane	17.39	110	7243	10.53 ug/L	96
58) Isopropylbenzene	17.69	105	176438	10.28 ug/L	100
59) Bromobenzene	18.05	156	40825	10.54 ug/L	98
60) n-Propylbenzene	18.30	91	250684	10.34 ug/L	98
61) 2-Chlorotoluene	18.45	91	143783	10.30 ug/L	100
62) 4-Chlorotoluene	18.55	91	141563	10.15 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	151285	10.35 ug/L	98
64) tert-Butylbenzene	19.09	119	128292	10.22 ug/L	98
65) 1,2,4-Trimethylbenzene	19.23	105	149598	10.05 ug/L	99
66) sec-Butylbenzene	19.37	105	214687	10.06 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	80400	10.10 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L	99
69) p-Isopropyltoluene	19.61	119	168592	10.18 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	69024	10.25 ug/L	99
71) n-Butylbenzene	20.12	91	183374	10.00 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	4643	11.01 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	41924	8.76 ug/L	100
74) Naphthalene	22.63	128	55616	9.13 ug/L	100
75) Hexachlorobutadiene	22.68	225	29027	10.49 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	34759	8.75 ug/L	99

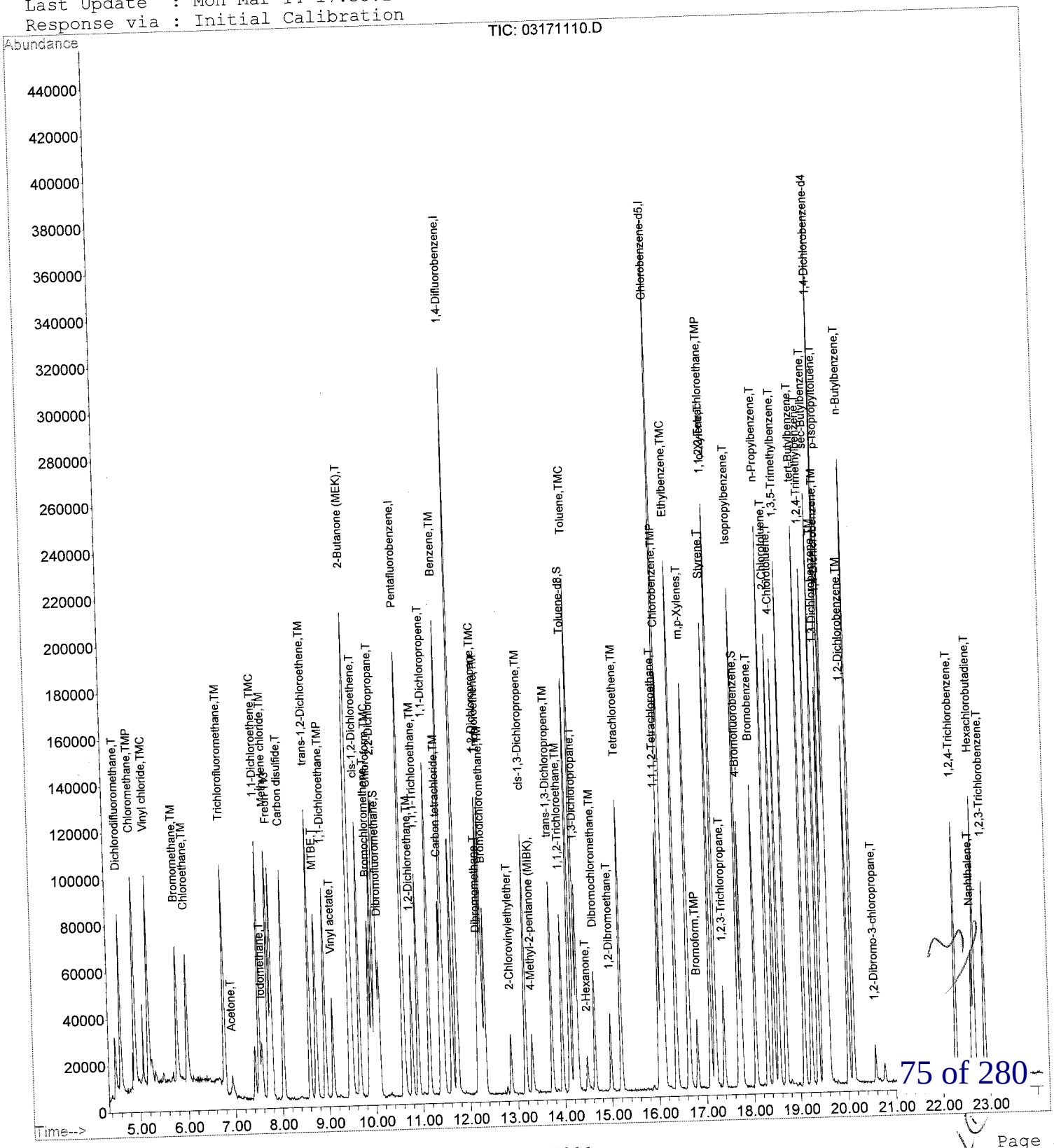
M

(#) = qualifier out of range (m) = manual integration
03171110.D 031411.M Thu Mar 17 14:00:50 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171110.D 031411.M Thu Mar 17 14:00:51 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	26.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.64%	
39) Toluene-d8	14.12	98	359841	25.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.68%	
53) 4-Bromofluorobenzene	17.75	95	128707	25.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.20 ug/L	98
3) Chloromethane	4.89	50	322628	28.77 ug/L	99
4) Vinyl chloride	5.18	62	283499	25.90 ug/L	100
5) Bromomethane	5.78	94	141242	29.13 ug/L	96
6) Chloroethane	5.98	64	150117	25.60 ug/L	98
7) Trichlorofluoromethane	6.78	101	214158	26.12 ug/L	99
8) Acetone	6.94	43	25928	23.73 ug/L	98
9) Iodomethane	7.57	142	98109	25.84 ug/L	97
10) 1,1-Dichloroethene	7.51	96	111502	26.67 ug/L	98
11) Methylene chloride	7.71	84	132209	24.14 ug/L	99
12) Freon 113	7.77	101	133636	25.10 ug/L	98
13) Carbon disulfide	8.03	76	401884	27.15 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.92 ug/L	98
15) MTBE	8.74	73	214946	24.98 ug/L	99
16) 1,1-Dichloroethane	8.92	63	264682	25.31 ug/L	99
17) Vinyl acetate	9.08	43	202265	24.98 ug/L	99
18) 2-Butanone (MEK)	9.47	72	6903	24.88 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	131490	24.87 ug/L	99
20) Bromochloromethane	9.87	128	47437	24.21 ug/L	94
21) Chloroform	9.93	83	218360	25.26 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	24.96 ug/L	98
24) 1,2-Dichloroethane	10.78	62	136474	26.62 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	162207	25.09 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.70 ug/L	99
28) Carbon tetrachloride	11.39	117	133369	25.74 ug/L	100
29) Benzene	11.44	78	490622	24.87 ug/L	99
30) Dibromomethane	12.17	93	58067	24.68 ug/L	98
31) 1,2-Dichloropropane	12.21	63	140014	25.35 ug/L	99
32) Trichloroethene	12.27	95	124690	25.08 ug/L	98
33) Bromodichloromethane	12.33	83	150764	25.89 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	21.41 ug/L	98
35) cis-1,3-Dichloropropene	13.16	75	183565	26.14 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	23.09 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.77 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	24.66 ug/L	98
40) Toluene	14.21	92	282149	25.56 ug/L	98
42) 1,3-Dichloropropane	14.27	76	140210	25.26 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171111.D 031411.M Thu Mar 17 14:01:22 2011

3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	44449	23.20 ug/L #	93
44) Dibromochloromethane	14.64	129	81864	25.66 ug/L	99
45) 1,2-Dibromoethane	14.98	107	70424	26.01 ug/L	99
46) Tetrachloroethene	15.21	166	109364	25.16 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	87769	25.31 ug/L	97
48) Chlorobenzene	16.12	112	284407	24.90 ug/L	99
49) Ethylbenzene	16.37	91	538674	25.57 ug/L	99
50) m,p-Xylenes	16.64	106	186494	25.11 ug/L	99
51) Styrene	17.09	104	295005	25.82 ug/L	99
52) o-Xylene	17.19	106	177920	24.79 ug/L	97
55) Bromoform	16.81	173	42372	26.71 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	82184	24.99 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	18834	26.78 ug/L	95
58) Isopropylbenzene	17.69	105	445254	25.36 ug/L	100
59) Bromobenzene	18.05	156	105054	26.51 ug/L	98
60) n-Propylbenzene	18.30	91	632559	25.51 ug/L	99
61) 2-Chlorotoluene	18.44	91	364433	25.52 ug/L	100
62) 4-Chlorotoluene	18.55	91	369067	25.87 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	381972	25.55 ug/L	100
64) tert-Butylbenzene	19.09	119	324112	25.26 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	382900	25.14 ug/L	99
66) sec-Butylbenzene	19.37	105	556785	25.52 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	205642	25.27 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	201942	24.80 ug/L	99
69) p-Isopropyltoluene	19.61	119	434002	25.61 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	178826	25.97 ug/L	99
71) n-Butylbenzene	20.12	91	487367	26.00 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	11318	26.23 ug/L	95
73) 1,2,4-Trichlorobenzene	22.28	180	122376	25.01 ug/L	99
74) Naphthalene	22.63	128	163821	26.30 ug/L	100
75) Hexachlorobutadiene	22.69	225	76790	28.14 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	101564	24.99 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031411.M Thu Mar 17 14:01:22 2011

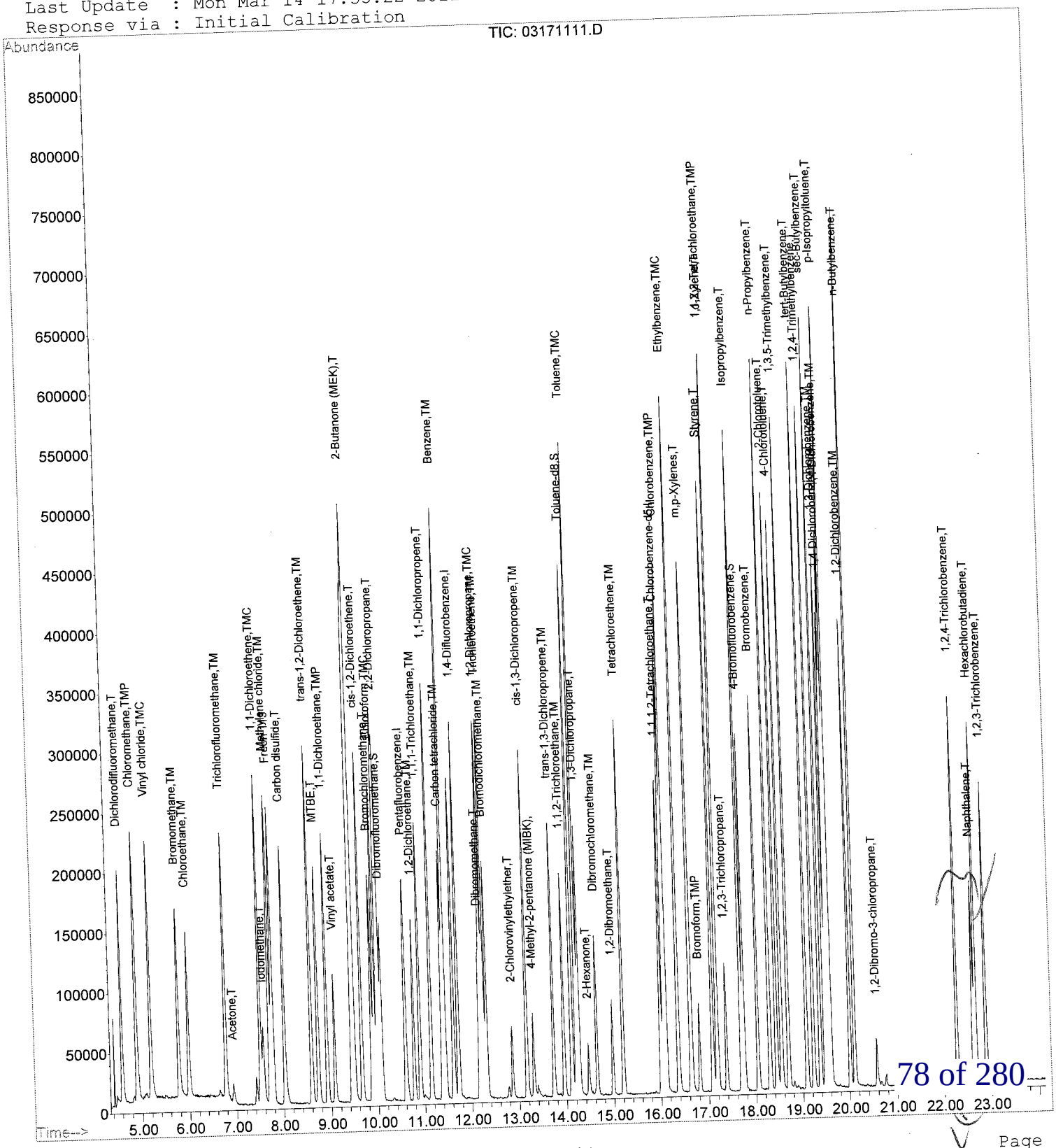
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171111.D 031411.M Thu Mar 17 14:01:23 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	49.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 196.48%	
39) Toluene-d8	14.11	98	726789	50.32 ug/L	0.00
Spiked Amount 25.000			Recovery	= 201.28%	
53) 4-Bromofluorobenzene	17.76	95	259969	50.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 202.16%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	46.88 ug/L	100
3) Chloromethane	4.90	50	687656	58.35 ug/L	100
4) Vinyl chloride	5.18	62	596978	51.89 ug/L	98
5) Bromomethane	5.78	94	296252	58.13 ug/L	98
6) Chloroethane	5.99	64	300876	48.83 ug/L	97
7) Trichlorofluoromethane	6.78	101	340516	39.53 ug/L	98
8) Acetone	6.93	43	44278	Below Cal	99
9) Iodomethane	7.58	142	195341	48.96 ug/L	99
10) 1,1-Dichloroethene	7.52	96	220268	50.38 ug/L	97
11) Methylene chloride	7.71	84	264019	45.88 ug/L	99
12) Freon 113	7.78	101	262900	47.00 ug/L	99
13) Carbon disulfide	8.03	76	807912	52.24 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.50 ug/L	98
15) MTBE	8.73	73	407385	45.06 ug/L	98
16) 1,1-Dichloroethane	8.92	63	517515	47.09 ug/L	100
17) Vinyl acetate	9.08	43	400997	47.13 ug/L	100
18) 2-Butanone (MEK)	9.47	72	13656	46.83 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	257331	46.32 ug/L	99
20) Bromochloromethane	9.87	128	96376	46.81 ug/L	98
21) Chloroform	9.93	83	424654	46.74 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.12 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	48.57 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	323769	47.65 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.22 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	49.71 ug/L	100
29) Benzene	11.44	78	1008066	49.11 ug/L	99
30) Dibromomethane	12.17	93	116662	47.65 ug/L	97
31) 1,2-Dichloropropane	12.21	63	281688	49.02 ug/L	99
32) Trichloroethene	12.26	95	255144	49.32 ug/L	98
33) Bromodichloromethane	12.33	83	300337	49.57 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	37.02 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	364674	49.91 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	44.54 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.71 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	47.11 ug/L	97
40) Toluene	14.22	92	583744	50.83 ug/L	100
42) 1,3-Dichloropropane	14.27	76	277506	48.23 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171112.D 031411.M Thu Mar 17 14:02:05 2011

3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	48.63 ug/L #	100
44) Dibromochloromethane	14.65	129	168655	51.01 ug/L	99
45) 1,2-Dibromoethane	14.98	107	142279	50.69 ug/L	99
46) Tetrachloroethene	15.20	166	223148	49.54 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	50.19 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.72 ug/L	99
49) Ethylbenzene	16.38	91	1095906	50.20 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.92 ug/L	97
51) Styrene	17.10	104	602783	50.90 ug/L	100
52) o-Xylene	17.20	106	366193	49.22 ug/L	100
55) Bromoform	16.82	173	87491	53.39 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.00 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	51.09 ug/L	99
58) Isopropylbenzene	17.70	105	904235	49.87 ug/L	99
59) Bromobenzene	18.05	156	210716	51.49 ug/L	98
60) n-Propylbenzene	18.30	91	1279523	49.95 ug/L	99
61) 2-Chlorotoluene	18.45	91	736550	49.95 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.28 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.43 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	49.92 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	772492	49.11 ug/L	98
66) sec-Butylbenzene	19.38	105	1121222	49.75 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	414698	49.34 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	411367	48.92 ug/L	99
69) p-Isopropyltoluene	19.61	119	866615	49.52 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	50.59 ug/L	100
71) n-Butylbenzene	20.11	91	964633	49.82 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	50.62 ug/L	96
73) 1,2,4-Trichlorobenzene	22.28	180	240360	47.56 ug/L	100
74) Naphthalene	22.63	128	314469	48.88 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	53.99 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	192513	45.85 ug/L	100

M

(#) = qualifier out of range (m) = manual integration
03171112.D 031411.M Thu Mar 17 14:02:06 2011

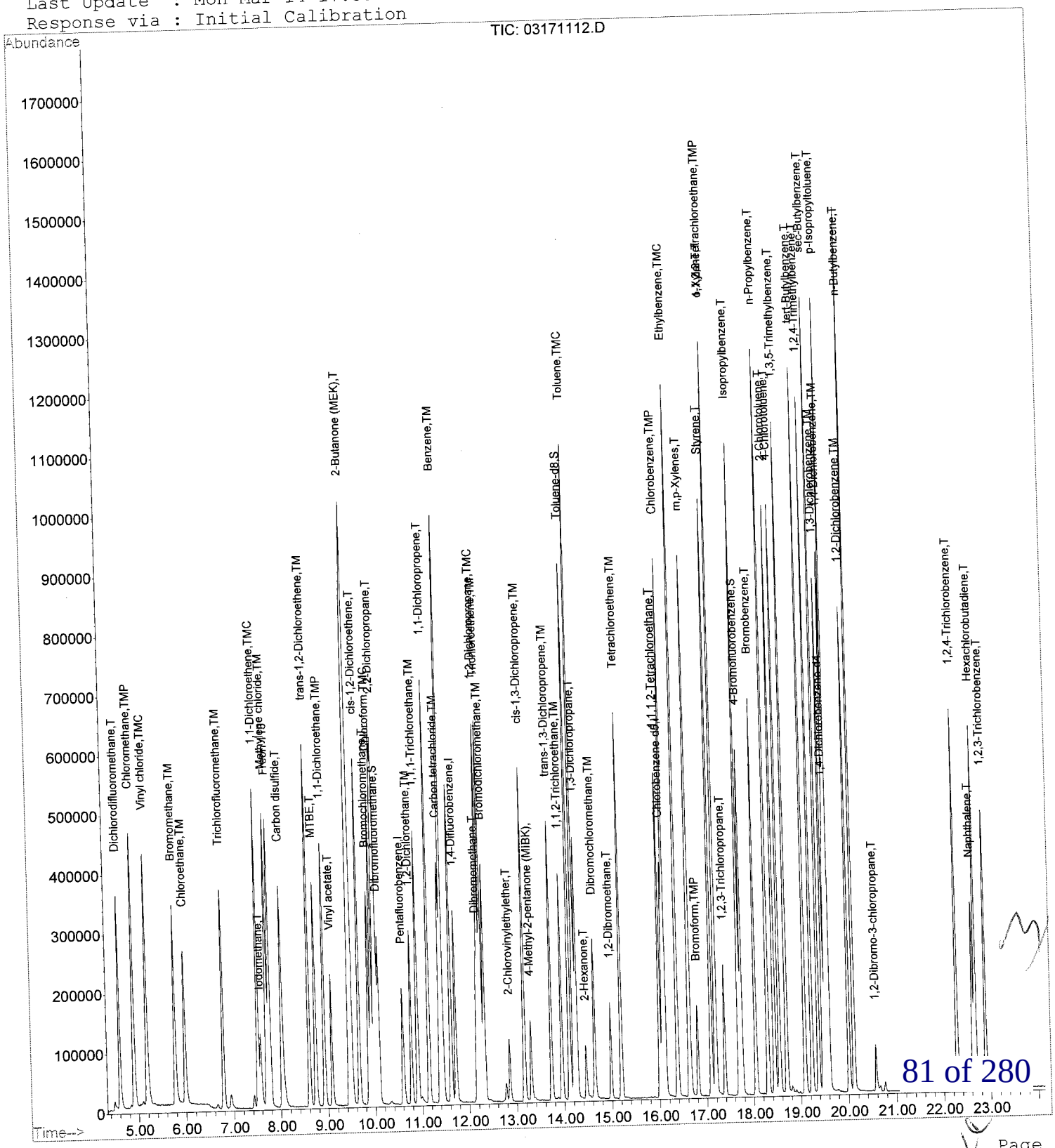
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	101.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 407.72%	
39) Toluene-d8	14.12	98	1505447	102.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 408.48%	
53) 4-Bromofluorobenzene	17.75	95	536695	104.44 ug/L	0.00
Spiked Amount 25.000			Recovery	= 417.76%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	92.13 ug/L	100
3) Chloromethane	4.90	50	1431368	119.80 ug/L	100
4) Vinyl chloride	5.18	62	1228117	105.30 ug/L	100
5) Bromomethane	5.78	94	641424	124.14 ug/L	98
6) Chloroethane	5.98	64	584071	93.50 ug/L	98
7) Trichlorofluoromethane	6.78	101	698452	79.96 ug/L	99
8) Acetone	6.94	43	84316	Below Cal	99
9) Iodomethane	7.58	142	393011	97.15 ug/L	96
10) 1,1-Dichloroethene	7.52	96	450680	101.96 ug/L	97
11) Methylene chloride	7.71	84	530536	90.93 ug/L	100
12) Freon 113	7.78	101	537890	94.84 ug/L	100
13) Carbon disulfide	8.04	76	1652598	105.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.91 ug/L	95
15) MTBE	8.74	73	859812	93.80 ug/L	100
16) 1,1-Dichloroethane	8.93	63	1054794	94.66 ug/L	100
17) Vinyl acetate	9.08	43	827230	95.91 ug/L	100
18) 2-Butanone (MEK)	9.47	72	27904	94.38 ug/L	95
19) cis-1,2-Dichloroethene	9.66	96	527963	93.73 ug/L	99
20) Bromochloromethane	9.87	128	191014	91.51 ug/L	99
21) Chloroform	9.93	83	877382	95.25 ug/L	99
22) 2,2-Dichloropropane	10.04	77	739530	96.19 ug/L	100
24) 1,2-Dichloroethane	10.78	62	540824	99.03 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	659685	95.75 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.61 ug/L	99
28) Carbon tetrachloride	11.39	117	547122	99.42 ug/L	100
29) Benzene	11.44	78	2051183	97.90 ug/L	100
30) Dibromomethane	12.17	93	236182	94.51 ug/L	98
31) 1,2-Dichloropropane	12.21	63	573859	97.85 ug/L	99
32) Trichloroethene	12.27	95	518186	98.14 ug/L	98
33) Bromodichloromethane	12.33	83	619726	100.21 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	69.01 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	755768	101.34 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	94.02 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.90 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	95.51 ug/L	97
40) Toluene	14.22	92	1181672	100.81 ug/L	100
42) 1,3-Dichloropropane	14.27	76	562918	97.92 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171113.D 031411.M Thu Mar 17 14:02:38 2011

M 3/17/11
3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	203381	102.53 ug/L #	97
44) Dibromochloromethane	14.65	129	341882	103.49 ug/L	99
45) 1,2-Dibromoethane	14.98	107	294156	104.89 ug/L	100
46) Tetrachloroethene	15.20	166	455622	101.24 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	371997	103.59 ug/L	98
48) Chlorobenzene	16.12	112	1190206	100.63 ug/L	99
49) Ethylbenzene	16.38	91	2245318	102.94 ug/L	99
50) m,p-Xylenes	16.64	106	773283	100.56 ug/L	99
51) Styrene	17.10	104	1244691	105.20 ug/L	100
52) o-Xylene	17.20	106	750628	100.99 ug/L	100
55) Bromoform	16.82	173	182147	107.85 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	341207	97.48 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	75618	101.00 ug/L	99
58) Isopropylbenzene	17.70	105	1844526	98.70 ug/L	100
59) Bromobenzene	18.05	156	429425	101.80 ug/L	99
60) n-Propylbenzene	18.30	91	2615929	99.09 ug/L	100
61) 2-Chlorotoluene	18.45	91	1500663	98.74 ug/L	99
62) 4-Chlorotoluene	18.55	91	1492720	98.30 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	1584063	99.53 ug/L	99
64) tert-Butylbenzene	19.09	119	1344278	98.40 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	1578520	97.37 ug/L	98
66) sec-Butylbenzene	19.39	105	2280043	98.16 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	847018	97.78 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	846913	97.72 ug/L	99
69) p-Isopropyltoluene	19.61	119	1785874	99.02 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	731103	99.76 ug/L	100
71) n-Butylbenzene	20.12	91	1981760	99.31 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	45883	99.91 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	510699	98.06 ug/L	98
74) Naphthalene	22.63	128	678287	102.29 ug/L	100
75) Hexachlorobutadiene	22.69	225	316227	110.66 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	412634	95.36 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171113.D 031411.M Thu Mar 17 14:02:38 2011

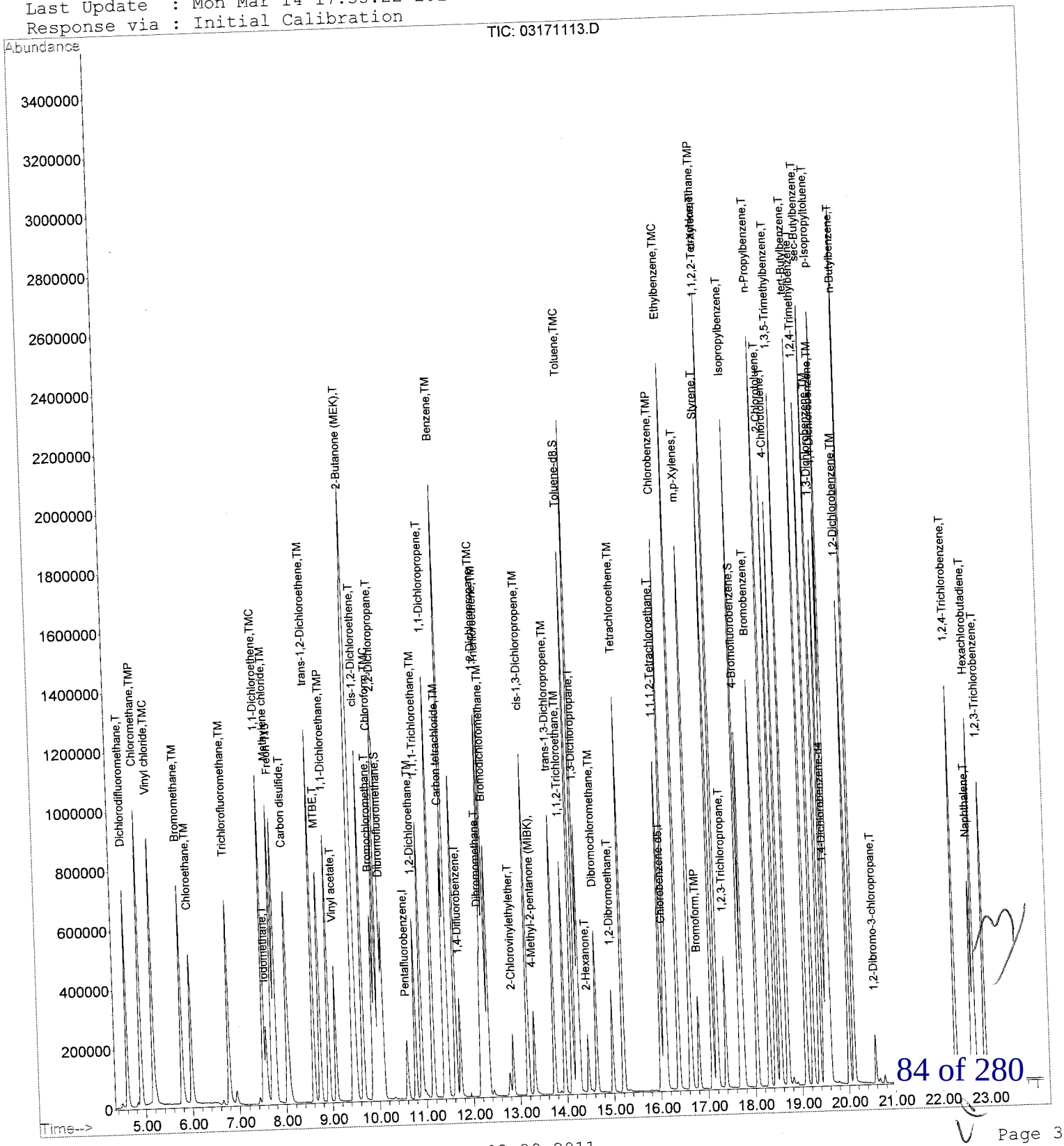
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171113.D 031411.M Thu Mar 17 14:02:39 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	839626	197.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 789.68%	
39) Toluene-d8	14.12	98	3013932	203.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 815.12%	
53) 4-Bromofluorobenzene	17.76	95	1038923	199.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 796.16%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	172.44 ug/L	99
3) Chloromethane	4.90	50	2913054	239.06 ug/L	100
4) Vinyl chloride	5.16	62	2428967	204.20 ug/L	99
5) Bromomethane	5.78	94	1343422	254.94 ug/L	99
6) Chloroethane	5.98	64	1199344	188.24 ug/L	98
7) Trichlorofluoromethane	6.79	101	1701514	191.01 ug/L	99
8) Acetone	6.94	43	201529	Below Cal	100
9) Iodomethane	7.58	142	794173	192.50 ug/L	99
10) 1,1-Dichloroethene	7.52	96	920511	204.48 ug/L	96
11) Methylene chloride	7.71	84	1063508	178.73 ug/L	98
12) Freon 113	7.78	101	1079115	186.56 ug/L	99
13) Carbon disulfide	8.03	76	3312605	208.15 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	187.33 ug/L	96
15) MTBE	8.74	73	1719756	183.97 ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	185.27 ug/L	99
17) Vinyl acetate	9.08	43	1660788	188.79 ug/L	100
18) 2-Butanone (MEK)	9.47	72	57153	189.53 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	186.86 ug/L	98
20) Bromochloromethane	9.88	128	361702	169.90 ug/L	98
21) Chloroform	9.93	83	1746080	185.86 ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	184.71 ug/L	99
24) 1,2-Dichloroethane	10.78	62	1056987	189.77 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	1325051	188.58 ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.90 ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	197.81 ug/L	100
29) Benzene	11.45	78	4061777	193.23 ug/L	100
30) Dibromomethane	12.17	93	461244	183.97 ug/L	99
31) 1,2-Dichloropropane	12.21	63	1126863	191.52 ug/L	99
32) Trichloroethene	12.27	95	1022222	192.97 ug/L	99
33) Bromodichloromethane	12.33	83	1217593	196.24 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	120.61 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	1495017	199.81 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	183.63 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.49 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	187.01 ug/L	98
40) Toluene	14.22	92	2368495	201.40 ug/L	100
42) 1,3-Dichloropropane	14.28	76	1107954	189.75 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171114.D 031411.M Thu Mar 17 14:03:08 2011

M 3/17/11
3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

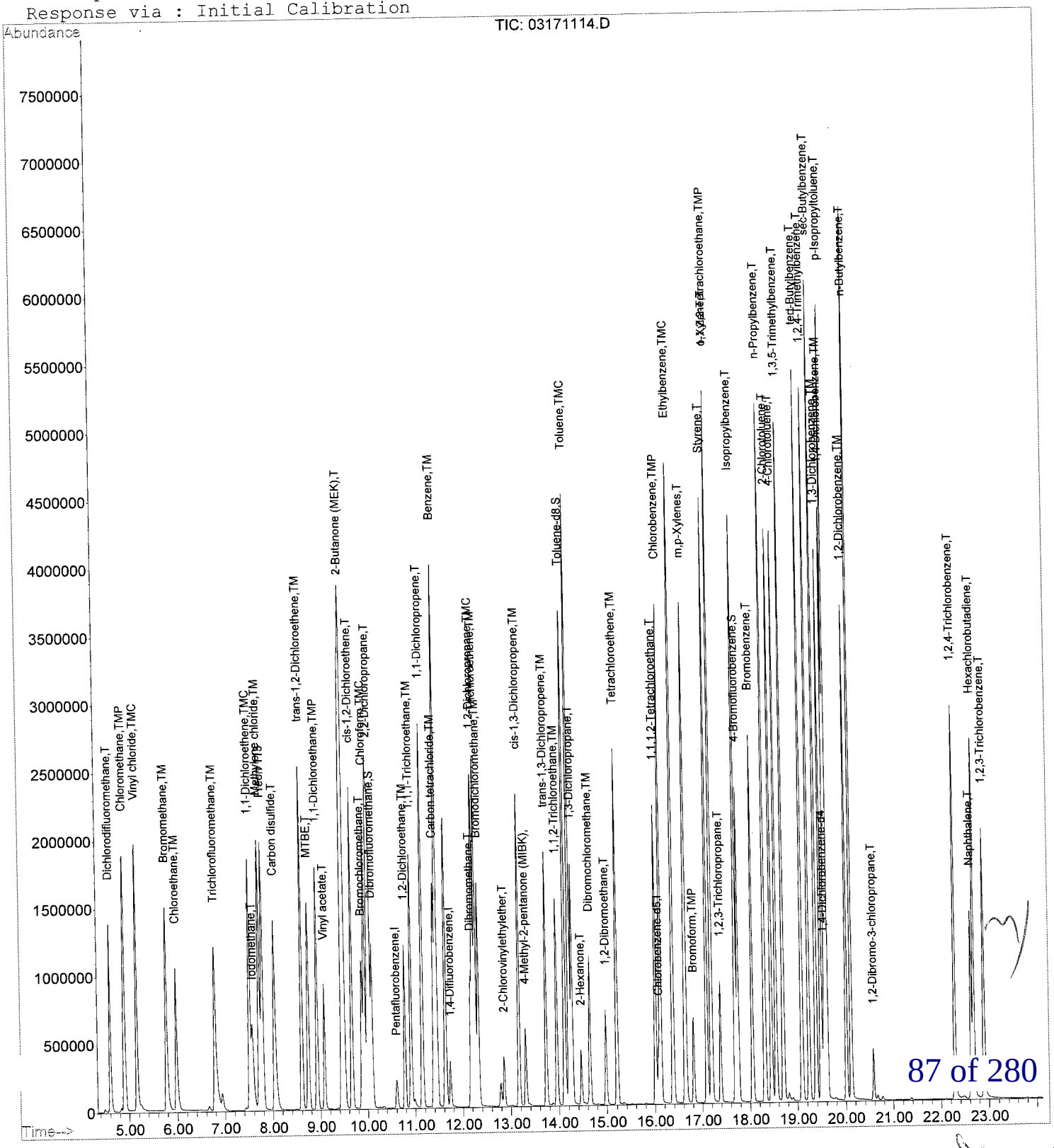
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	396743	196.91 ug/L #	97
44) Dibromochloromethane	14.65	129	686033	204.44 ug/L	100
45) 1,2-Dibromoethane	14.99	107	575405	202.00 ug/L	99
46) Tetrachloroethene	15.20	166	914229	199.99 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.02	131	755965	207.25 ug/L	99
48) Chlorobenzene	16.13	112	2393108	199.20 ug/L	97
49) Ethylbenzene	16.38	91	4465000	201.54 ug/L	98
50) m,p-Xylenes	16.64	106	1550944	198.56 ug/L	99
51) Styrene	17.10	104	2561762	213.16 ug/L	99
52) o-Xylene	17.20	106	1517247	200.97 ug/L	100
55) Bromoform	16.82	173	364089	189.30 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.19	83	656346	164.64 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	155202	182.01 ug/L	98
58) Isopropylbenzene	17.70	105	3655213	171.73 ug/L	99
59) Bromobenzene	18.05	156	865850	180.23 ug/L	97
60) n-Propylbenzene	18.31	91	5305462	176.46 ug/L	99
61) 2-Chlorotoluene	18.45	91	3128722	180.76 ug/L	99
62) 4-Chlorotoluene	18.56	91	3203621	185.25 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	3485140	192.28 ug/L	99
64) tert-Butylbenzene	19.09	119	2997423	192.66 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	3435108	186.05 ug/L	97
66) sec-Butylbenzene	19.39	105	5038432	190.46 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	1885851	191.15 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	1902798	192.79 ug/L	99
69) p-Isopropyltoluene	19.61	119	4021709	195.79 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	1645465	197.15 ug/L	100
71) n-Butylbenzene	20.12	91	4374192	192.47 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	102361	195.71 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	1107731	186.75 ug/L	98
74) Naphthalene	22.63	128	1413680	187.19 ug/L	100
75) Hexachlorobutadiene	22.69	225	688401	212.10 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	830638	168.55 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171114.D 031411.M Thu Mar 17 14:03:09 2011

NEW8260-CCV

Data File Name	03171115.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031711\
Operator	LC
Date Acquired	3/17/2011 1:50
Acq. Method File	8260B
Sample Name	SS
Instrument Name	GCMS7

Internal Standard	**Target Response**	**CCV Response**	**Low**	**High**	**T/F**
Pentafluorobenzene	204788	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	354603	291205	145602.5	582410	TRUE
Chlorobenzene-d5	296499	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	131216	112264	56132	224528	TRUE

Name	**Amount**	**Spike Amount**	**% REC**	**Low**	**High**	**T/F**	
Dichlorodifluoromethane	21.34	25.00	85.36	60	150	TRUE	
Chloromethane	20.19	25.00	80.77	60	140	TRUE	
Vinyl chloride	21.98	25.00	87.90	80	120	TRUE	CCC
Bromomethane	21.20	25.00	84.79	70	140	TRUE	
Chloroethane	21.91	25.00	87.64	70	130	TRUE	
Trichlorofluoromethane	25.44	25.00	101.76	70	150	TRUE	
Acetone	32.58	25.00	130.32	10	150	TRUE	
Iodomethane	30.91	25.00	123.66	70	140	TRUE	
1,1-Dichloroethene	24.98	25.00	99.91	80	120	TRUE	CCC
Methylene chloride	24.09	25.00	96.37	70	120	TRUE	
Freon 113	24.00	25.00	95.98	60	140	TRUE	
Carbon disulfide	25.08	25.00	100.31	70	130	TRUE	
trans-1,2-Dichloroethene	21.70	25.00	86.79	80	120	TRUE	
MTBE	20.73	25.00	82.90	70	130	TRUE	
1,1-Dichloroethane	20.79	25.00	83.16	70	125	TRUE	
Vinyl acetate	26.90	25.00	107.60	40	150	TRUE	
2-Butanone (MEK)	24.92	25.00	99.67	40	150	TRUE	
cis-1,2-Dichloroethene	20.20	25.00	80.78	80	120	TRUE	
Bromochloromethane	21.09	25.00	84.35	80	120	TRUE	
Chloroform	20.32	25.00	81.28	80	120	TRUE	CCC
2,2-Dichloropropane	21.15	25.00	84.60	80	130	TRUE	
Dibromofluoromethane	**21.57**	**25.00**	**86.27**	**80**	**120**	TRUE	
1,2-Dichloroethane	20.57	25.00	82.26	75	130	TRUE	
1,1,1-Trichloroethane	21.81	25.00	87.23	80	120	TRUE	
1,1-Dichloropropene	22.05	25.00	88.19	80	120	TRUE	
Carbon tetrachloride	22.49	25.00	89.96	80	130	TRUE	
Benzene	21.24	25.00	84.94	80	120	TRUE	
Dibromomethane	22.05	25.00	88.19	80	120	TRUE	
1,2-Dichloropropane	21.44	25.00	85.74	80	120	TRUE	CCC
Trichloroethene	21.49	25.00	85.98	80	120	TRUE	
Bromodichloromethane	21.49	25.00	85.95	80	120	TRUE	
2-Chlorovinylethylether	33.03	25.00	132.10	70	135	TRUE	
cis-1,3-Dichloropropene	21.67	25.00	86.67	80	120	TRUE	
4-Methyl-2-pentanone (MIB	23.62	25.00	94.48	60	130	TRUE	
trans-1,3-Dichloropropene	22.74	25.00	90.94	80	125	TRUE	

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1,1,2-Trichloroethane	22.20	25.00	88.81	80	120	TRUE	
Toluene-d8	**21.91**	**25.00**	**87.66**	**80**	**120**	TRUE	
Toluene	21.78	25.00	87.14	80	120	TRUE	CCC
1,3-Dichloropropane	21.05	25.00	84.20	80	120	TRUE	
2-Hexanone	25.08	25.00	100.33	20	150	TRUE	
Dibromochloromethane	21.71	25.00	86.84	80	120	TRUE	
1,2-Dibromoethane	22.31	25.00	89.25	80	120	TRUE	
Tetrachloroethene	22.09	25.00	88.37	70	130	TRUE	
1,1,1,2-Tetrachloroethane	21.46	25.00	85.82	80	120	TRUE	
Chlorobenzene	21.76	25.00	87.05	80	120	TRUE	
Ethylbenzene	21.51	25.00	86.06	80	120	TRUE	CCC
m,p-Xylenes	21.31	25.00	85.25	60	140	TRUE	
Styrene	23.00	25.00	92.00	80	120	TRUE	
o-Xylene	20.70	25.00	82.81	80	120	TRUE	
4-Bromofluorobenzene	**20.94**	**25.00**	**83.76**	**80**	**120**	TRUE	
Bromoform	24.45	25.00	97.79	80	120	TRUE	
1,1,2,2-Tetrachloroethane	23.28	25.00	93.12	80	120	TRUE	
1,2,3-Trichloropropane	23.38	25.00	93.50	70	130	TRUE	
Isopropylbenzene	25.73	25.00	102.90	80	130	TRUE	
Bromobenzene	24.00	25.00	96.00	80	120	TRUE	
n-Propylbenzene	24.01	25.00	96.04	75	130	TRUE	
2-Chlorotoluene	22.31	25.00	89.23	80	120	TRUE	
4-Chlorotoluene	23.19	25.00	92.75	80	120	TRUE	
1,3,5-Trimethylbenzene	23.39	25.00	93.56	80	130	TRUE	
tert-Butylbenzene	23.30	25.00	93.19	80	120	TRUE	
1,2,4-Trimethylbenzene	23.52	25.00	94.06	80	120	TRUE	
sec-Butylbenzene	22.94	25.00	91.76	80	125	TRUE	
1,3-Dichlorobenzene	22.83	25.00	91.30	80	120	TRUE	
1,4-Dichlorobenzene	22.81	25.00	91.26	80	120	TRUE	
p-Isopropyltoluene	23.58	25.00	94.31	80	130	TRUE	
1,2-Dichlorobenzene	22.83	25.00	91.31	80	120	TRUE	
n-Butylbenzene	23.80	25.00	95.22	80	130	TRUE	
1,2-Dibromo-3-chloropropa	24.52	25.00	98.10	50	150	TRUE	
1,2,4-Trichlorobenzene	25.88	25.00	103.53	50	150	TRUE	
Naphthalene	30.38	25.00	121.52	40	150	TRUE	
Hexachlorobutadiene	24.16	25.00	96.62	40	150	TRUE	
1,2,3-Trichlorobenzene	25.60	25.00	102.42	60	140	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	204788	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	354603	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	296499	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131216	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	111142	21.57 ug/L	0.00
Spiked Amount 25.000			Recovery =	86.28%	
39) Toluene-d8	14.12	98	391936	21.91 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.64%	
53) 4-Bromofluorobenzene	17.75	95	136070	20.94 ug/L	0.00
Spiked Amount 25.000			Recovery =	83.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.61	85	206452	21.34 ug/L	99
3) Chloromethane	4.90	50	322987	20.19 ug/L	98
4) Vinyl chloride	5.19	62	312968	21.98 ug/L	100
5) Bromomethane	5.78	94	156914	21.20 ug/L	98
6) Chloroethane	5.99	64	165417	21.91 ug/L	99
7) Trichlorofluoromethane	6.79	101	251907	25.44 ug/L	99
8) Acetone	6.94	43	38773	32.58 ug/L	98
9) Iodomethane	7.58	142	141683	30.91 ug/L	98
10) 1,1-Dichloroethene	7.52	96	144273	24.98 ug/L	98
11) Methylene chloride	7.72	84	163712	24.09 ug/L	99
12) Freon 113	7.78	101	164091	24.00 ug/L	99
13) Carbon disulfide	8.04	76	515335	25.08 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	138660	21.70 ug/L	94
15) MTBE	8.75	73	226347	20.73 ug/L	99
16) 1,1-Dichloroethane	8.92	63	277166	20.79 ug/L	99
17) Vinyl acetate	9.08	43	278544	26.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7971	24.92 ug/L	55
19) cis-1,2-Dichloroethene	9.67	96	133655	20.20 ug/L	99
20) Bromochloromethane	9.88	128	51073	21.09 ug/L	97
21) Chloroform	9.94	83	223530	20.32 ug/L	99
22) 2,2-Dichloropropane	10.04	77	188645	21.15 ug/L	97
24) 1,2-Dichloroethane	10.78	62	138066	20.57 ug/L	100
25) 1,1,1-Trichloroethane	10.92	97	172274	21.81 ug/L	97
27) 1,1-Dichloropropene	11.15	75	200126	22.05 ug/L	99
28) Carbon tetrachloride	11.39	117	140957	22.49 ug/L	99
29) Benzene	11.44	78	515367	21.24 ug/L	100
30) Dibromomethane	12.18	93	63306	22.05 ug/L	98
31) 1,2-Dichloropropane	12.22	63	145297	21.44 ug/L	100
32) Trichloroethene	12.27	95	130435	21.49 ug/L	100
33) Bromodichloromethane	12.34	83	153079	21.49 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	40803	33.03 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	187370	21.67 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	83668	23.62 ug/L	99
37) trans-1,3-Dichloropropene	13.74	75	151736	22.74 ug/L	100
38) 1,1,2-Trichloroethane	13.96	83	71241	22.20 ug/L	98
40) Toluene	14.22	92	300558	21.78 ug/L	97
42) 1,3-Dichloropropane	14.27	76	141234	21.05 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171115.D 031711.M Thu Mar 17 14:48:24 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

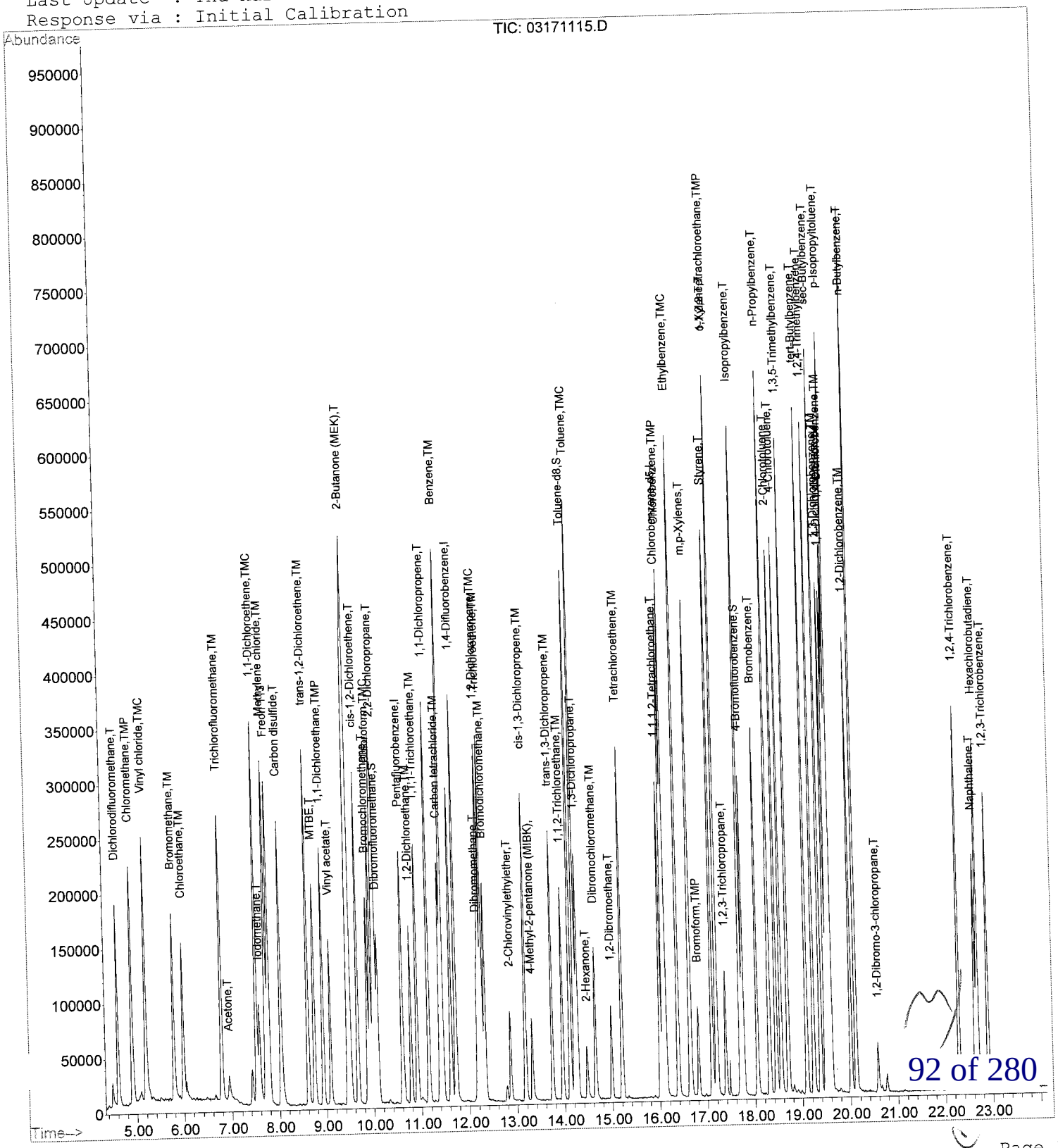
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	56108	25.08 ug/L #	94
44) Dibromochloromethane	14.65	129	87587	21.71 ug/L	95
45) 1,2-Dibromoethane	14.99	107	75157	22.31 ug/L	99
46) Tetrachloroethene	15.21	166	117481	22.09 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	94210	21.46 ug/L	97
48) Chlorobenzene	16.12	112	303242	21.76 ug/L	99
49) Ethylbenzene	16.38	91	564816	21.51 ug/L	100
50) m,p-Xylenes	16.65	106	195974	21.31 ug/L	98
51) Styrene	17.10	104	320734	23.00 ug/L	98
52) o-Xylene	17.19	106	185035	20.70 ug/L	99
55) Bromoform	16.81	173	46447	24.45 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.19	83	89438	23.28 ug/L	100
57) 1,2,3-Trichloropropane	17.39	110	19539	23.38 ug/L	94
58) Isopropylbenzene	17.70	105	516912	25.73 ug/L	100
59) Bromobenzene	18.06	156	111249	24.00 ug/L	99
60) n-Propylbenzene	18.31	91	688724	24.01 ug/L	100
61) 2-Chlorotoluene	18.45	91	374880	22.31 ug/L	100
62) 4-Chlorotoluene	18.55	91	386272	23.19 ug/L	98
63) 1,3,5-Trimethylbenzene	18.71	105	406096	23.39 ug/L	100
64) tert-Butylbenzene	19.10	119	344368	23.30 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	410391	23.52 ug/L	99
66) sec-Butylbenzene	19.38	105	581187	22.94 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	215599	22.83 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	216972	22.81 ug/L	99
69) p-Isopropyltoluene	19.61	119	456572	23.58 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	187538	22.83 ug/L	99
71) n-Butylbenzene	20.12	91	513084	23.80 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	12556	24.52 ug/L	96
73) 1,2,4-Trichlorobenzene	22.29	180	137336	25.88 ug/L	99
74) Naphthalene	22.63	128	213772	30.38 ug/L	100
75) Hexachlorobutadiene	22.69	225	81857	24.16 ug/L	98
76) 1,2,3-Trichlorobenzene	22.90	180	110762	25.60 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171115.D 031711.M Thu Mar 17 14:48:24 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171115.D 031711.M Thu Mar 17 14:48:25 2011

8260AZ - Vapor Analysis
1 PPMV Tertiary Standard

3/17/2011

ppmv	Mol Wt.	ug/L
1	260.76	10.80

* Compound not in the standard mix

Conversion Calculation: ug/L=ppmv (MW*P)/(R*T)

R=Gas Constant(0.08206 l*atm/(mol*K)) MW=Molecular Weight

T=Temp in Degree K (21+273.15) P=Pressure in atm

Assume Temp in C of 21 (70 degrees F)

Compound	Molecular Weight	Expected Value (ug/L)	Actual Value (ug/L)	% Recovery
Dichlorodifluoromethane	120.91	5.01	6.05	121
Chloromethane	50.49	2.09	2.13	102
Vinyl Chloride	62.5	2.59	2.49	96
Bromomethane	94.94	3.93	1.91	49
Chloroethane	64.52	2.67	2.56	96
Trichlorofluoromethane	137.37	5.69	5.99	105
Acetone *				
Iodomethane *				
1,1-Dichloroethene	96.94	4.02	3.55	88
Methylene Chloride	84.93	3.52	3.35	95
Carbon Disulfide *				
trans-1,2-DCE *				
MTBE *				
1,1-Dichloroethane	98.96	4.10	3.37	82
Vinyl Acetate *				
2-Butanone *				
cis-1,2-DCE	96.94	4.02	3.41	85
Bromochloromethane *				
Chloroform	119.38	4.95	3.92	79
2,2-Dichloropropane *				
1,2-DCA	98.96	4.10	3.33	81
1,1,1-Trichloroethane	133.41	5.53	4.69	85
1,1-Dichloropropene *				
Carbon Tetrachloride	153.82	6.37	5.34	84
Benzene	78.11	3.24	2.68	83
Dibromomethane *				
1,2-Dichloropropane	112.99	4.68	3.9	83
Trichloroethene	131.39	5.44	4.59	84
Bromodichloromethane *				
2-CEVE *				
cis-1,3-Dichloropropene	110.97	4.60	3.55	77
4-Methyl-2-Pentanone *				
trans-1,3-Dichloropropene	110.97	4.60	3.53	77
1,1,2-Trichloroethane	133.41	5.53	4.56	82
Toluene	92.14	3.82	3.16	83
1,3-Dichloropropane *				

N1

M 3/18/11

V 3/18/11

2-Hexanone *				
Dibromochloromethane *				
1,2-Dibromoethane	**187.86**	**7.78**	**6.53**	**84**
Tetrachloroethene	**165.83**	**6.87**	**5.59**	**81**
1,1,1,2-Tetrachloroethane *				
Chlorobenzene	**112.56**	**4.66**	**3.59**	**77**
Ethylbenzene	**106.16**	**4.40**	**3.45**	**78**
m,p-Xylenes	**212.36**	**8.80**	**6.85**	**78**
Styrene	**104.16**	**4.31**	**3.37**	**78**
o-Xylene	**106.18**	**4.40**	**3.51**	**80**
1,1,2,2-Tetrachloroethane	**133.41**	**5.53**	**5.91**	**107**
1,2,3-Trichloropropane *				
Isopropylbenzene *				
Bromobenzene *				
n-Propylbenzene *				
2-Chlorotoluene *				
4-Chlorotoluene *				
1,3,5-Trimethylbenzene	**120.19**	**4.98**	**4.09**	**82**
tert-butylbenzene *				
1,2,4-Trimethylbenzene	**120.19**	**4.98**	**4.11**	**83**
sec-butylbenzene *				
1,3-Dichlorobenzene	**147**	**6.09**	**4.85**	**80**
1,4-Dichlorobenzene	**147**	**6.09**	**4.73**	**78**
p-Isopropyltoluene *				
1,2-Dichlorobenzene	**147**	**6.09**	**5.01**	**82**
n-Butylbenzene *				
1,2-Dibromo-3-chloropropane *				
1,2,4-Trichlorobenzene	**181.46**	**7.52**	**5.44**	**72**
Naphthalene *				
Hexachlorobutadiene	**260.76**	**10.80**	**8.7**	**81**
1,2,3-Trichlorobenzene *				

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	201057	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.74	114	351105	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	292717	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	134120	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	108706	21.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.96%	
39) Toluene-d8	14.12	98	384321	21.70 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.80%	
53) 4-Bromofluorobenzene	17.76	95	132578	20.67 ug/L	0.00
Spiked Amount 25.000			Recovery	= 82.68%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	57530	6.06 ug/L	95
3) Chloromethane	4.90	50	33468	2.13 ug/L	98
4) Vinyl chloride	5.19	62	34821	2.49 ug/L	96
5) Bromomethane	5.78	94	12125	1.91 ug/L	94
6) Chloroethane	5.99	64	18973	2.56 ug/L	90
7) Trichlorofluoromethane	6.79	101	58222	5.99 ug/L	100
8) Acetone	6.94	43	1602	Below Cal #	85
9) Iodomethane	7.57	142	6053	1.47 ug/L	91
10) 1,1-Dichloroethene	7.52	96	20124	3.55 ug/L	97
11) Methylene chloride	7.72	84	22344	3.35 ug/L	90
12) Freon 113	7.78	101	41757	6.22 ug/L	97
13) Carbon disulfide	8.03	76	10613	0.53 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	558	0.09 ug/L #	60
15) MTBE	8.75	73	153	0.01 ug/L #	50
16) 1,1-Dichloroethane	8.93	63	44110	3.37 ug/L	99
17) Vinyl acetate	9.09	43	405	0.04 ug/L #	83
18) 2-Butanone (MEK)	9.66	72	117	1.25 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	22148	3.41 ug/L	96
20) Bromochloromethane	0.00	128	0	N.D.	
21) Chloroform	9.94	83	42350	3.92 ug/L	98
22) 2,2-Dichloropropane	0.00	77	0	N.D.	
24) 1,2-Dichloroethane	10.78	62	21923	3.33 ug/L	96
25) 1,1,1-Trichloroethane	10.92	97	36411	4.69 ug/L	98
27) 1,1-Dichloropropene	0.00	75	0	N.D.	
28) Carbon tetrachloride	11.40	117	33155	5.34 ug/L	97
29) Benzene	11.45	78	64449	2.68 ug/L	98
30) Dibromomethane	0.00	93	0	N.D.	
31) 1,2-Dichloropropane	12.22	63	26155	3.90 ug/L	99
32) Trichloroethene	12.28	95	27561	4.59 ug/L	97
33) Bromodichloromethane	12.29	83	154	0.02 ug/L #	25
34) 2-Chlorovinylethylether	0.00	63	0	N.D.	
35) cis-1,3-Dichloropropene	13.17	75	30363	3.55 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.33	43	274	0.08 ug/L #	50
37) trans-1,3-Dichloropropene	13.74	75	23347	3.53 ug/L	98
38) 1,1,2-Trichloroethane	13.96	83	14497	4.56 ug/L	99
40) Toluene	14.22	92	43103	3.16 ug/L	96
42) 1,3-Dichloropropane	14.21	76	285	0.04 ug/L #	44

(#) = qualifier out of range (m) = manual integration
03171116.D 031711.M Thu Mar 17 14:49:25 2011

m 3/17/11
03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	136	0.06 ug/L #	29
44) Dibromochloromethane	0.00	129	0	N.D.	
45) 1,2-Dibromoethane	14.99	107	21706	6.53 ug/L	99
46) Tetrachloroethene	15.21	166	29329	5.59 ug/L	99
47) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	
48) Chlorobenzene	16.12	112	49412	3.59 ug/L	98
49) Ethylbenzene	16.38	91	89509	3.45 ug/L	99
50) m,p-Xylenes	16.64	106	62191	6.85 ug/L	100
51) Styrene	17.10	104	46398	3.37 ug/L	97
52) o-Xylene	17.19	106	30948	3.51 ug/L	97
55) Bromoform	0.00	173	0	N.D.	
56) 1,1,2,2-Tetrachloroethane	17.19	83	23190	5.91 ug/L	95
57) 1,2,3-Trichloropropane	0.00	110	0	N.D.	
58) Isopropylbenzene	17.70	105	1070	0.05 ug/L #	51
59) Bromobenzene	18.06	156	141	0.03 ug/L #	43
60) n-Propylbenzene	18.32	91	1826	0.06 ug/L #	90
61) 2-Chlorotoluene	18.45	91	787	0.05 ug/L #	44
62) 4-Chlorotoluene	18.56	91	1213	0.07 ug/L #	65
63) 1,3,5-Trimethylbenzene	18.71	105	72087	4.06 ug/L	98
64) tert-Butylbenzene	19.09	119	908	0.06 ug/L #	76
65) 1,2,4-Trimethylbenzene	19.24	105	73403	4.11 ug/L	99
66) sec-Butylbenzene	19.24	105	73403	2.83 ug/L #	61
67) 1,3-Dichlorobenzene	19.49	146	46821	4.85 ug/L	100
68) 1,4-Dichlorobenzene	19.58	146	46004	4.73 ug/L	97
69) p-Isopropyltoluene	19.62	119	1222	0.06 ug/L #	89
70) 1,2-Dichlorobenzene	20.02	146	42108	5.01 ug/L	98
71) n-Butylbenzene	20.13	91	3423	0.16 ug/L	97
72) 1,2-Dibromo-3-chloropropan	0.00	157	0	N.D.	
73) 1,2,4-Trichlorobenzene	22.29	180	29509	5.44 ug/L	99
74) Naphthalene	22.63	128	15881	2.21 ug/L	100
75) Hexachlorobutadiene	22.69	225	30129	8.70 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	2346	0.53 ug/L	95

(#) = qualifier out of range (m) = manual integration
03171116.D 031711.M Thu Mar 17 14:49:25 2011

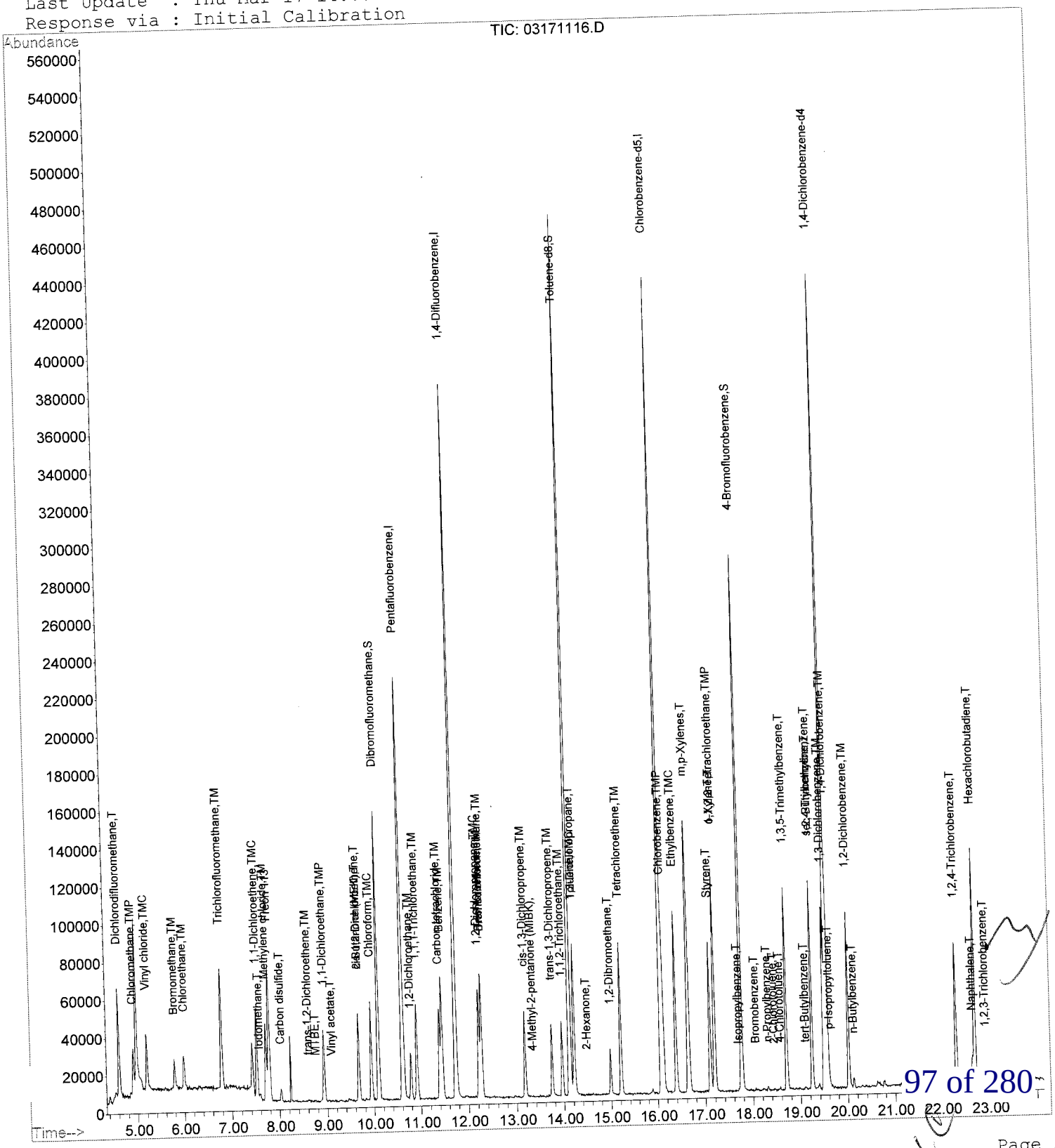
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D
Acq On : 17 Mar 2011 2:20 pm
Sample : TERTIARY GAS
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011

Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	22.71 ug/L	0.00
Spiked Amount 25.000			Recovery =	90.84%	
39) Toluene-d8	14.11	98	374753	21.71 ug/L	0.00
Spiked Amount 25.000			Recovery =	86.84%	
53) 4-Bromofluorobenzene	17.75	95	131653	21.33 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.32%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.12 ug/L LRL	98
5) Bromomethane	5.77	94	123	0.28 ug/L #	76
8) Acetone	6.93	43	3328	Below Cal #	67
13) Carbon disulfide	8.02	76	5282	0.27 ug/L	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	83
24) 1,2-Dichloroethane	10.60	62	1206	0.19 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.61 ug/L # WRT	68
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	29
74) Naphthalene	22.63	128	1667	0.24 ug/L	100

M 3/18/11

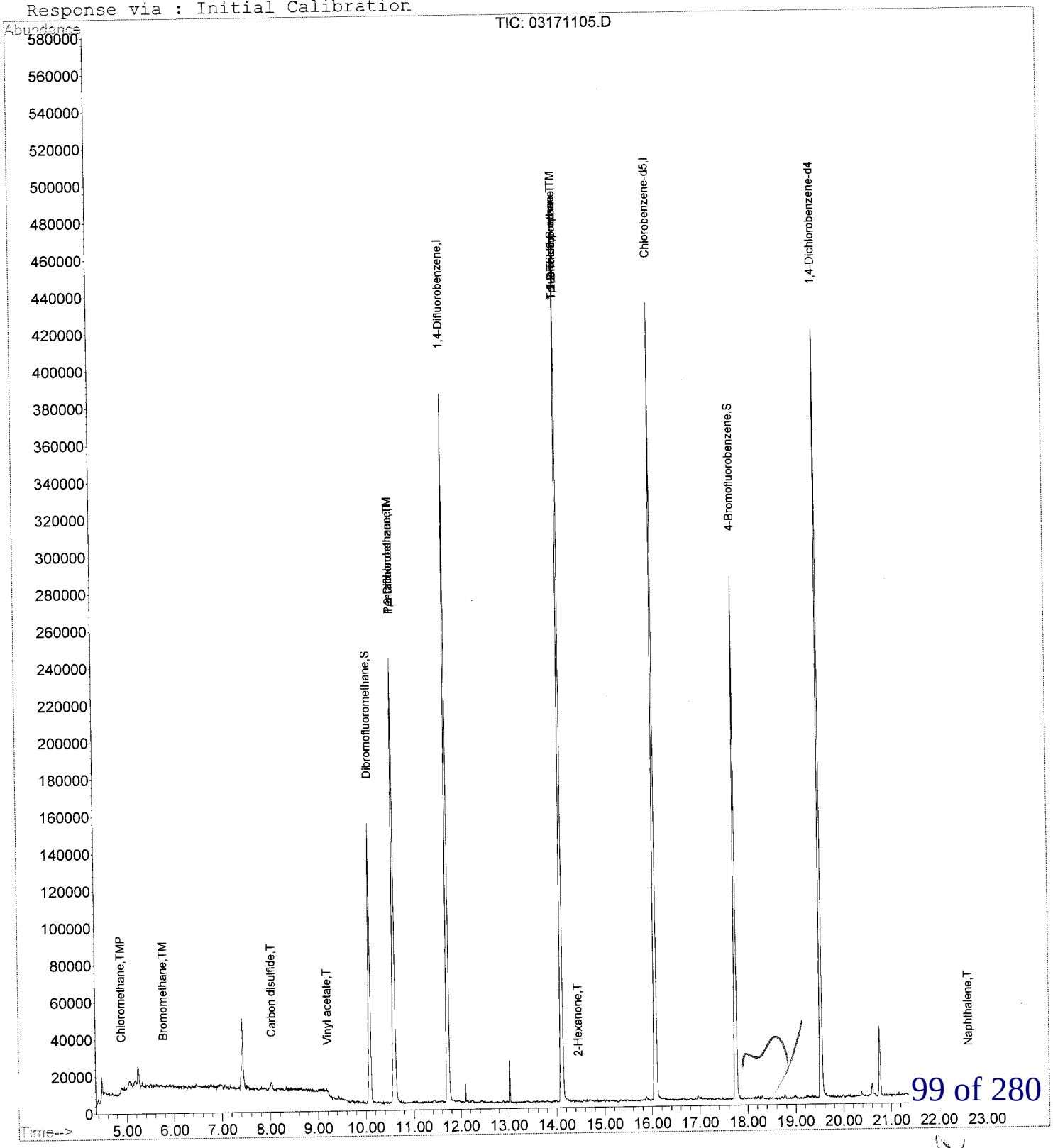
LC 3/18/11

(#) = qualifier out of range (m) = manual integration
03171105.D 031711.M Fri Mar 18 08:36:53 2011

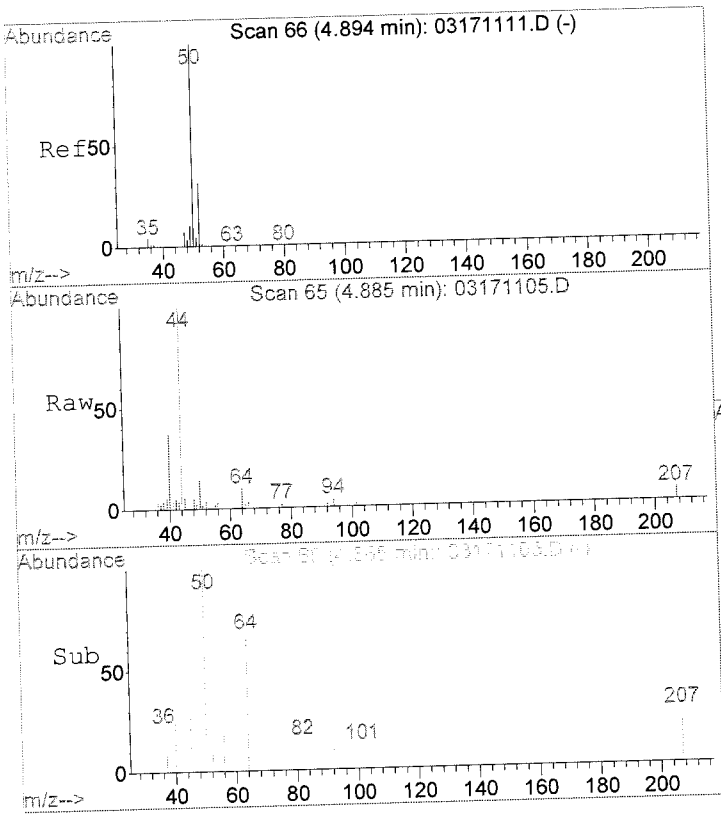
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



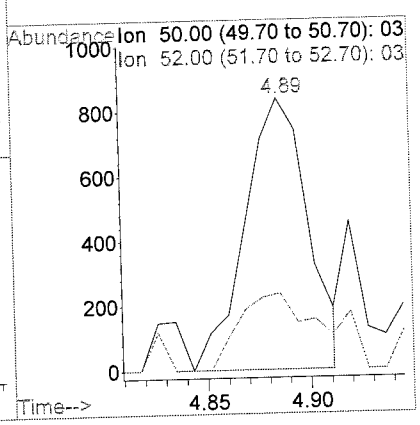
03171105.D 031711.M Fri Mar 18 08:36:53 2011

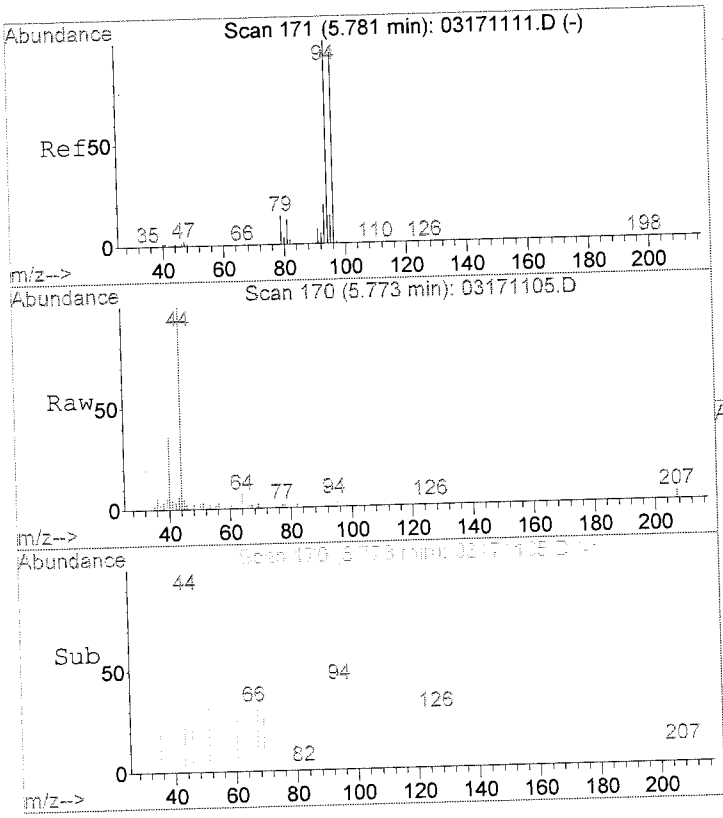


#3
Chloromethane
Concen: 0.12 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.1	37.7

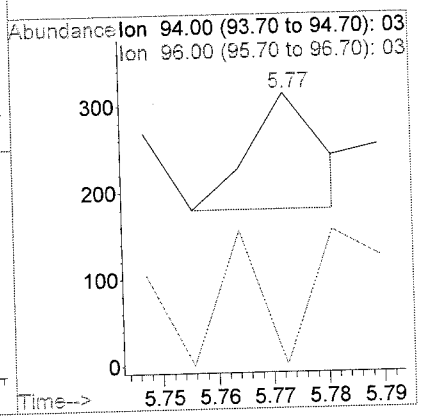


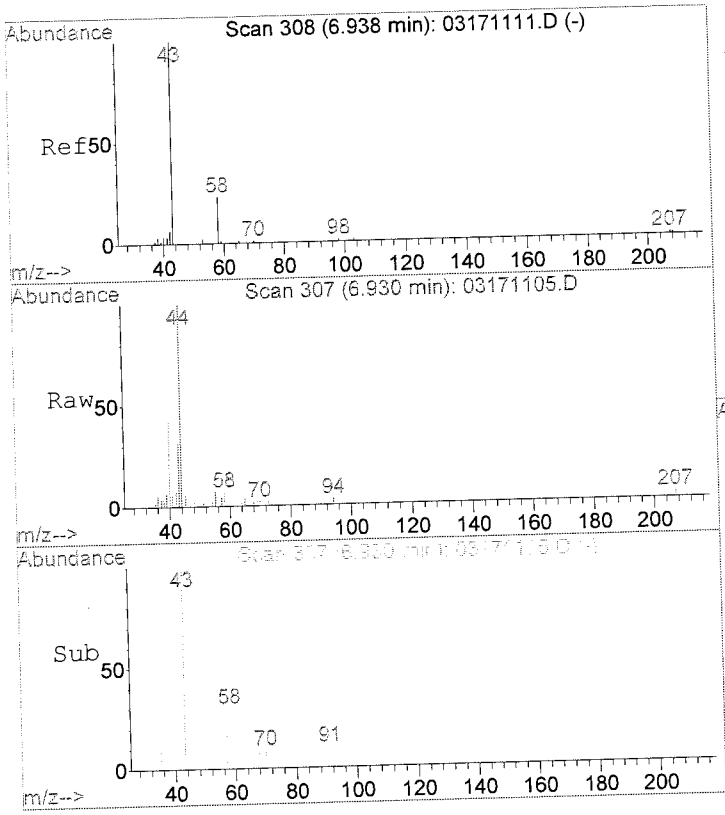


#5
Bromomethane
Concen: 0.28 ug/L
RT: 5.77 min Scan# 170
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 94 Resp: 123

Ion	Ratio	Lower	Upper
94	100		
96	115.4	74.0	111.0#

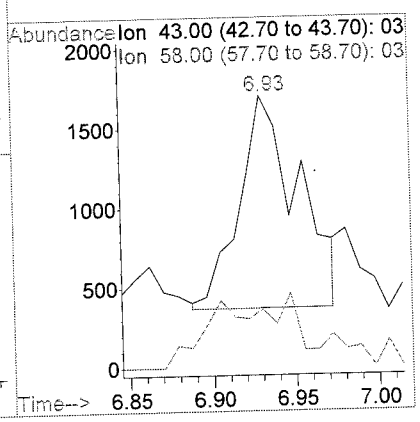


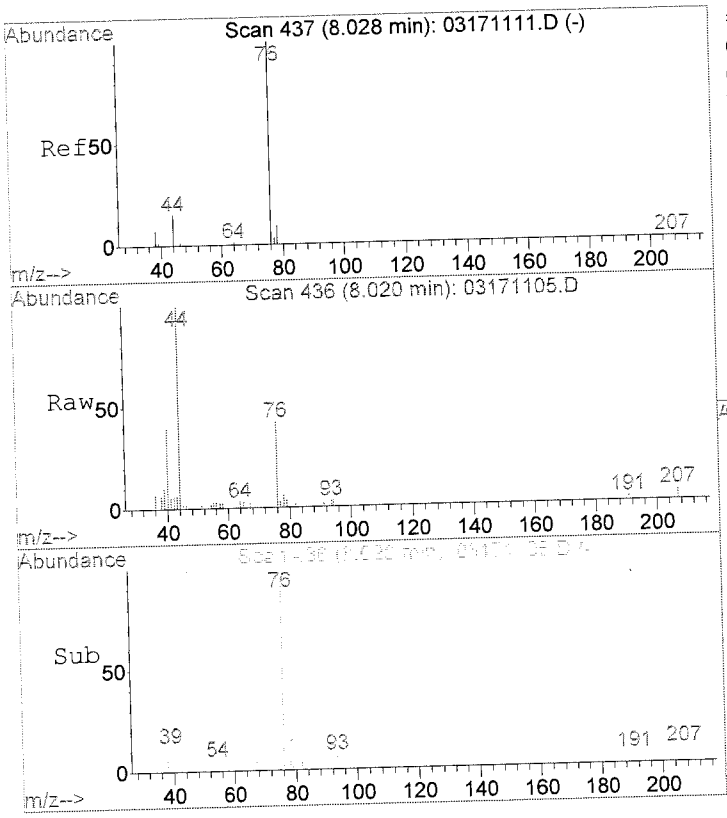


#8
Acetone
Concen: Below Cal
RT: 6.93 min Scan# 307
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

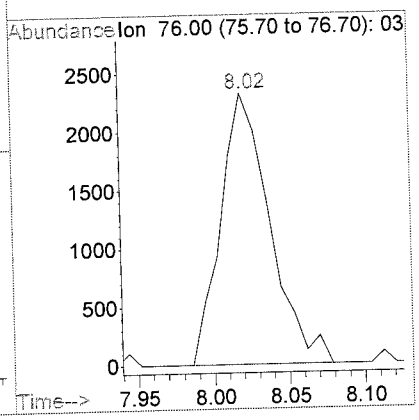
Ion	Ratio	Lower	Upper
43	100		
58	9.7	21.2	31.8#

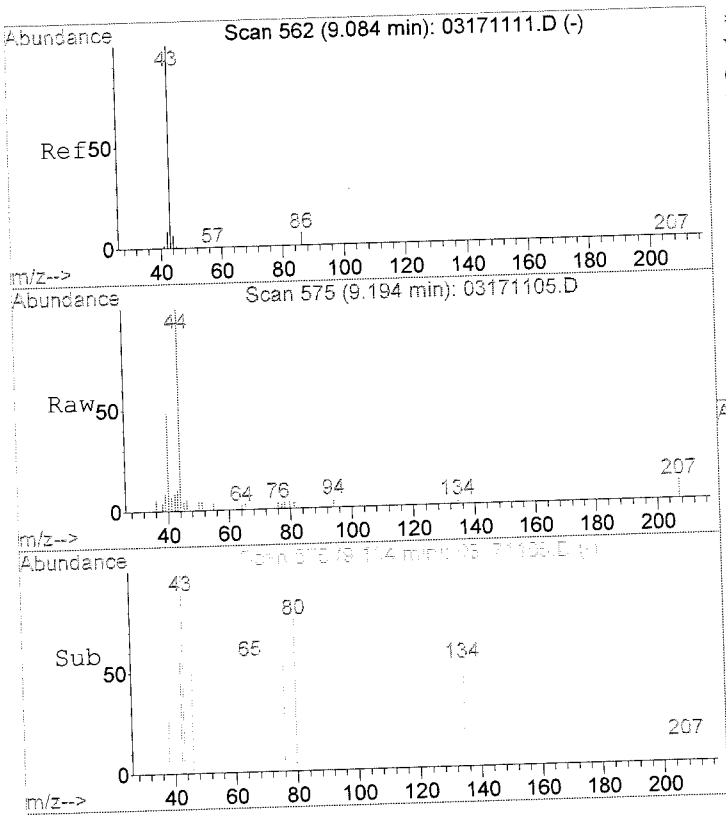




#13
Carbon disulfide
Concen: 0.27 ug/L
RT: 8.02 min Scan# 436
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 5282

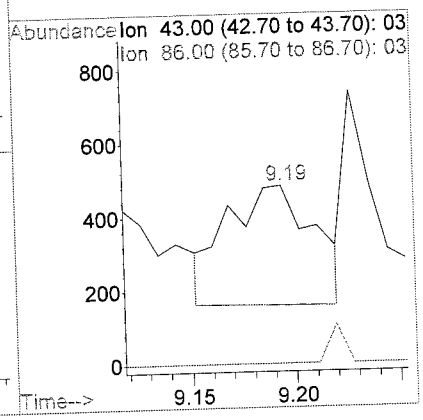


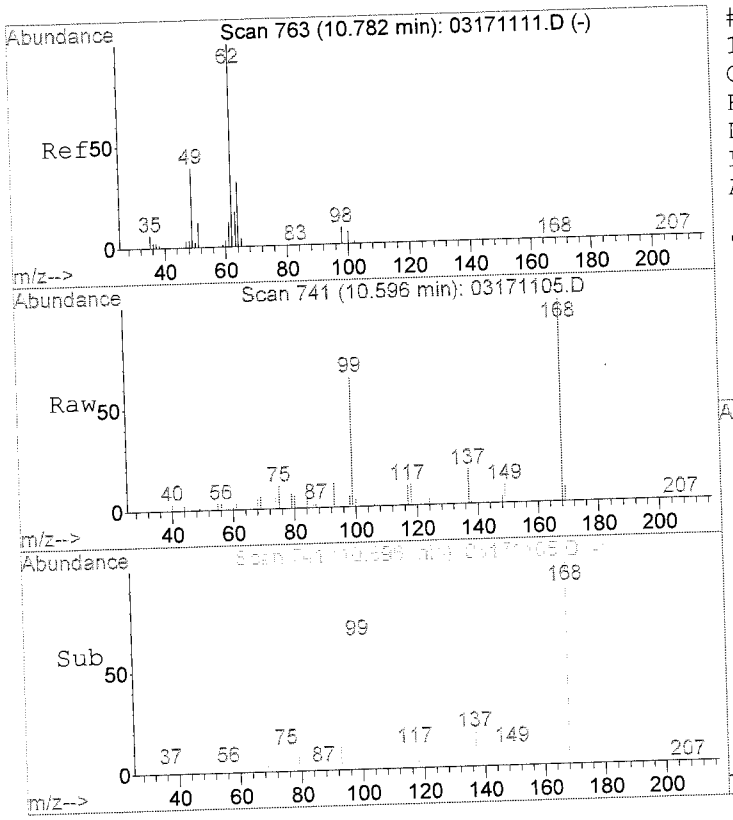


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#

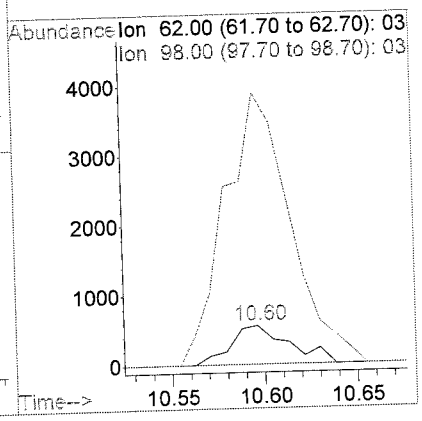


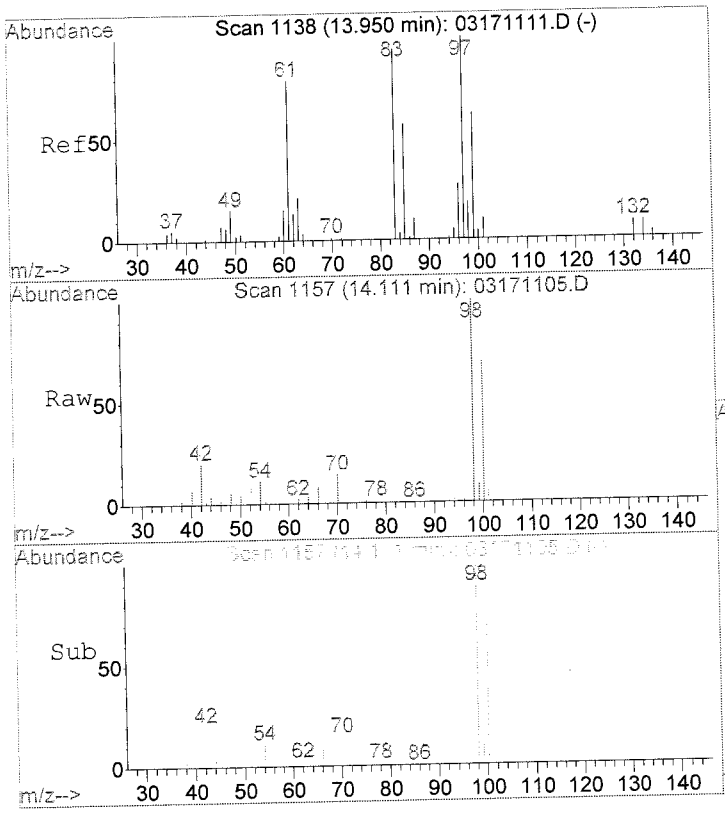


#24
1,2-Dichloroethane
Concen: 0.19 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	7.0	10.6#

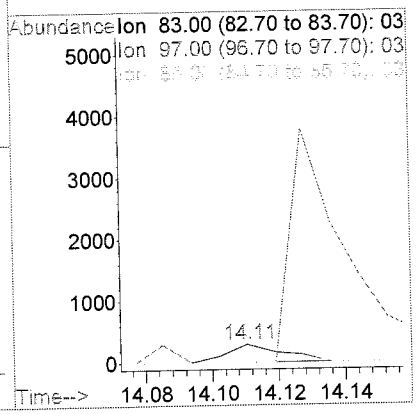


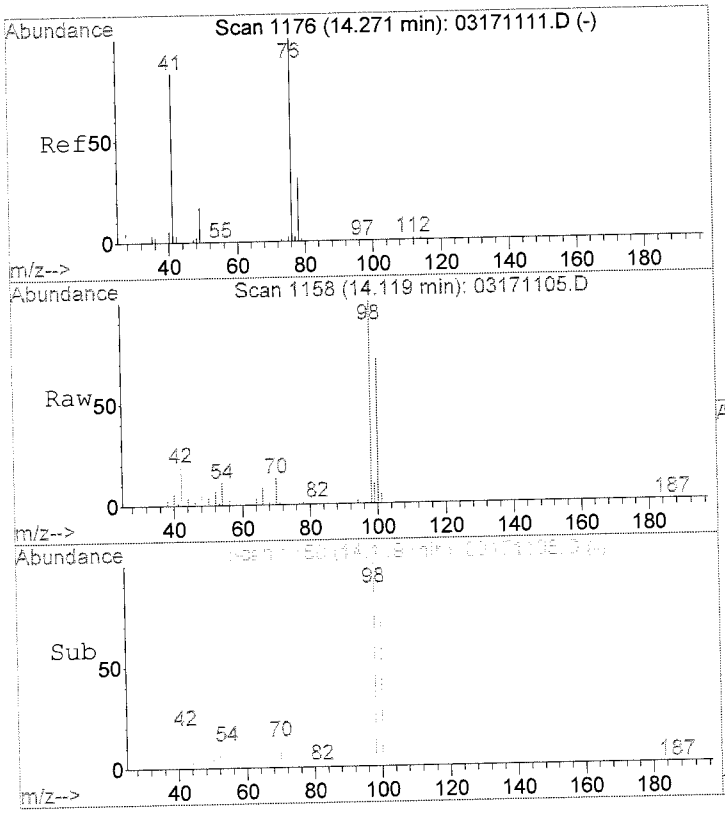


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	83.0	124.6#
85	0.0	51.3	76.9#



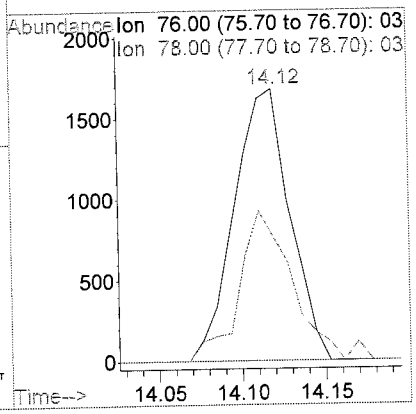


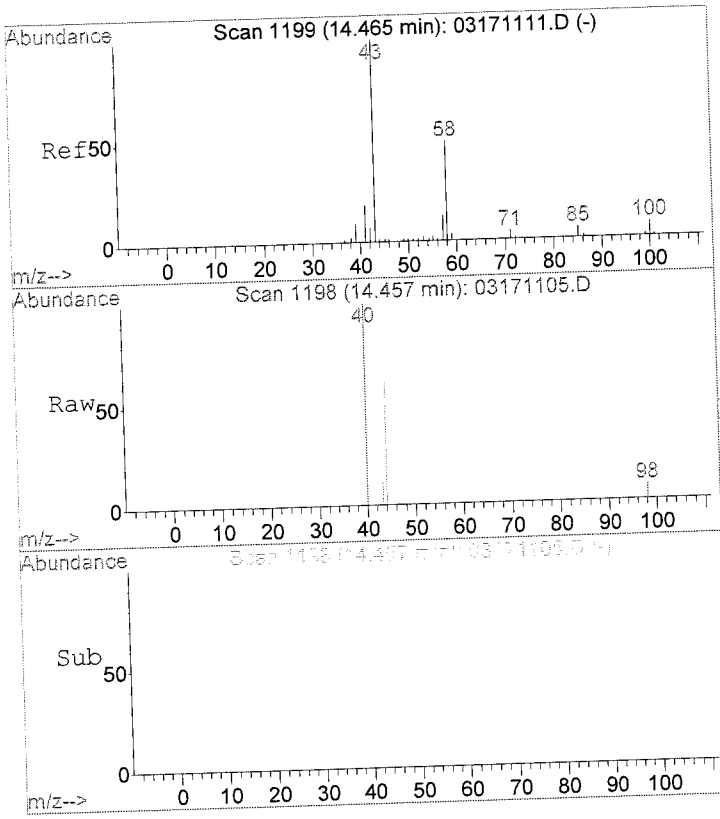
#42
1,3-Dichloropropane
Concen: 0.61 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.15 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

WRT

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	24.6	37.0#

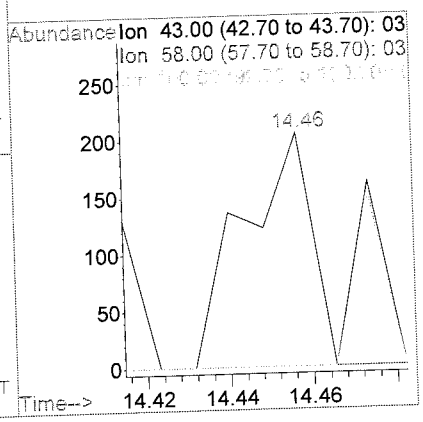


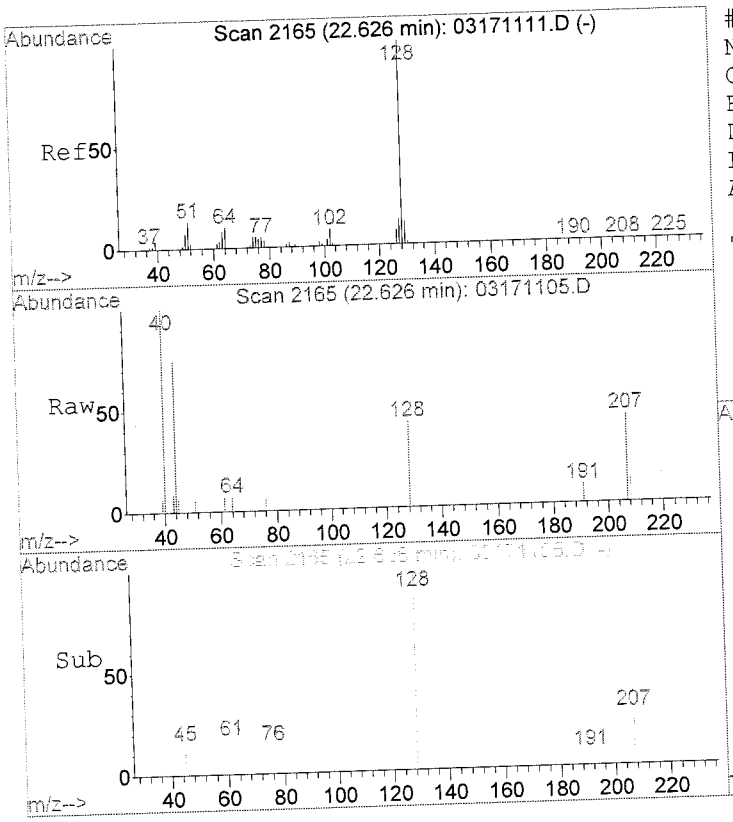


#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 235

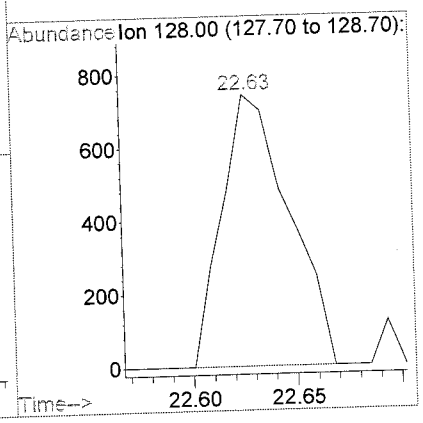
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.4#
100	0.0	0.0	0.0





#74
Naphthalene
Concen: 0.24 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion:128 Resp: 1667



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.36%	
39) Toluene-d8	14.12	98	8971	0.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.40%	
53) 4-Bromofluorobenzene	17.76	95	3244	0.61 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.44%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.54 ug/L #	90
3) Chloromethane	4.89	50	6587	0.50 ug/L	95
4) Vinyl chloride	5.18	62	6003	0.51 ug/L	90
5) Bromomethane	5.78	94	3084	0.76 ug/L	93
6) Chloroethane	5.97	64	3371	0.55 ug/L #	73
7) Trichlorofluoromethane	6.77	101	4364	0.54 ug/L	92
8) Acetone	6.93	43	1615	Below Cal #	66
9) Iodomethane	7.58	142	1272	0.47 ug/L	92
10) 1,1-Dichloroethene	7.50	96	2883	0.61 ug/L	93
11) Methylene chloride	7.70	84	3890	0.70 ug/L	97
12) Freon 113	7.77	101	3509	0.63 ug/L	92
13) Carbon disulfide	8.02	76	10027	0.60 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	92
15) MTBE	8.73	73	5033	0.56 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.54 ug/L	96
17) Vinyl acetate	9.08	43	4816	0.57 ug/L #	83
18) 2-Butanone (MEK)	9.46	72	199	1.62 ug/L #	34
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	90
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	93
21) Chloroform	9.93	83	4941	0.55 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.53 ug/L	100
24) 1,2-Dichloroethane	10.77	62	2927	0.53 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.51 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	95
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.54 ug/L	99
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	87
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L #	97
32) Trichloroethene	12.27	95	2709	0.53 ug/L	98
33) Bromodichloromethane	12.33	83	3018	0.50 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	Below Cal #	55
35) cis-1,3-Dichloropropene	13.18	75	3500	0.48 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	13.32	43	2046	0.69 ug/L #	82
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.51 ug/L	84
40) Toluene	14.21	92	6374	0.55 ug/L	96
2) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171106.D 031711.M Fri Mar 18 08:37:04 2011

3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

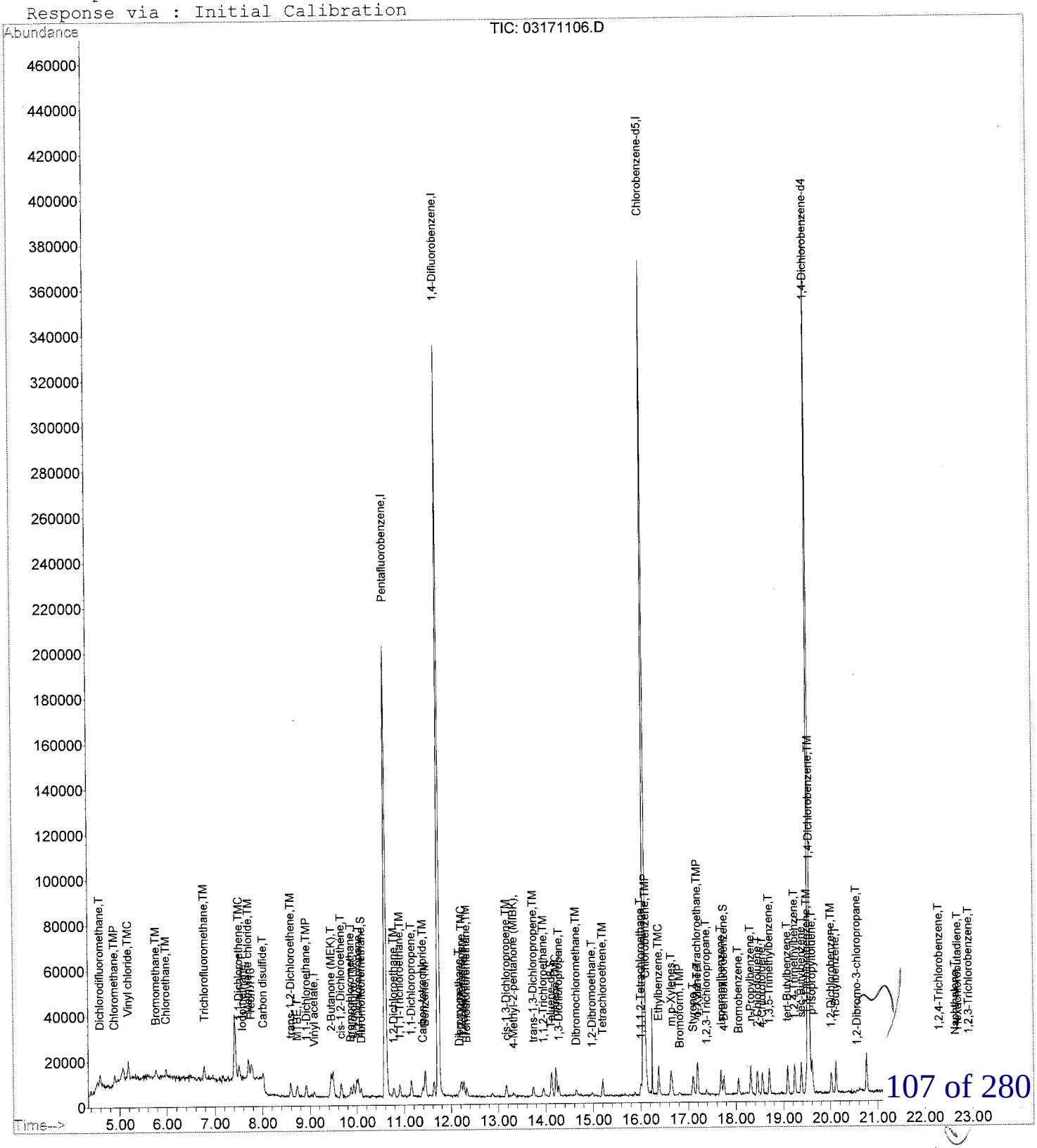
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Dibromochloromethane	14.65	129	2052	0.62 ug/L	85
45) 1,2-Dibromoethane	14.98	107	1293	0.47 ug/L #	78
46) Tetrachloroethene	15.21	166	2392	0.55 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.02	131	2040	0.57 ug/L #	53
48) Chlorobenzene	16.12	112	6227	0.54 ug/L	97
49) Ethylbenzene	16.38	91	11848	0.55 ug/L	94
50) m,p-Xylenes	16.64	106	4453	0.59 ug/L	95
51) Styrene	17.10	104	5086	0.44 ug/L #	78
52) o-Xylene	17.20	106	4214	0.57 ug/L	96
55) Bromoform	16.81	173	696	0.41 ug/L #	64
56) 1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L #	93
57) 1,2,3-Trichloropropane	17.38	110	276	0.37 ug/L #	62
58) Isopropylbenzene	17.70	105	9284	0.52 ug/L	99
59) Bromobenzene	18.05	156	1904	0.46 ug/L	83
60) n-Propylbenzene	18.31	91	13033	0.51 ug/L	97
61) 2-Chlorotoluene	18.45	91	8427	0.57 ug/L	93
62) 4-Chlorotoluene	18.56	91	8009	0.54 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	8073	0.53 ug/L	98
64) tert-Butylbenzene	19.09	119	6647	0.51 ug/L	96
65) 1,2,4-Trimethylbenzene	19.24	105	7949	0.52 ug/L	100
66) sec-Butylbenzene	19.38	105	11380	0.51 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L	94
68) 1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L #	87
69) p-Isopropyltoluene	19.61	119	8395	0.49 ug/L	94
70) 1,2-Dichlorobenzene	20.02	146	3885	0.54 ug/L	97
71) n-Butylbenzene	20.11	91	9466	0.50 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.57	157	71	0.16 ug/L #	14
73) 1,2,4-Trichlorobenzene	22.29	180	2133	0.46 ug/L	81
74) Naphthalene	22.63	128	4307	0.69 ug/L	100
75) Hexachlorobutadiene	22.69	225	1446	0.48 ug/L #	65
76) 1,2,3-Trichlorobenzene	22.90	180	1936	0.51 ug/L	87

(#) = qualifier out of range (m) = manual integration
03171106.D 031711.M Fri Mar 18 08:37:04 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171106.D 031711.M Fri Mar 18 08:37:05 2011 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	0.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.76%	
39) Toluene-d8	14.12	98	14880	1.01 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.04%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.96 ug/L	94
3) Chloromethane	4.89	50	11297	0.88 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.03 ug/L #	84
5) Bromomethane	5.77	94	5200	1.12 ug/L	94
6) Chloroethane	5.98	64	6815	1.13 ug/L #	88
7) Trichlorofluoromethane	6.77	101	8152	1.03 ug/L	91
8) Acetone	6.93	43	2180	Below Cal	96
9) Iodomethane	7.57	142	3864	1.18 ug/L #	86
10) 1,1-Dichloroethene	7.51	96	5486	1.19 ug/L	97
11) Methylene chloride	7.70	84	6767	1.24 ug/L	92
12) Freon 113	7.78	101	6284	1.15 ug/L	98
13) Carbon disulfide	8.02	76	17829	1.08 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.19 ug/L	85
15) MTBE	8.73	73	10605	1.21 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.15 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.19 ug/L #	93
18) 2-Butanone (MEK)	9.48	72	190	1.60 ug/L #	1
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	97
21) Chloroform	9.93	83	8465	0.96 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.98 ug/L #	90
24) 1,2-Dichloroethane	10.78	62	5936	1.10 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.97 ug/L #	56
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	93
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.02 ug/L	97
30) Dibromomethane	12.17	93	2529	1.07 ug/L	94
31) 1,2-Dichloropropane	12.21	63	5383	0.96 ug/L #	90
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.96 ug/L #	87
34) 2-Chlorovinylethylether	12.86	63	1739	0.28 ug/L #	80
35) cis-1,3-Dichloropropene	13.18	75	6952	0.98 ug/L	96
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.19 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.99 ug/L #	84
40) Toluene	14.22	92	10459	0.92 ug/L	93
42) 1,3-Dichloropropane	14.27	76	5543	1.01 ug/L #	75

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2515	1.37 ug/L #	71
44) Dibromochloromethane	14.65	129	2863	0.86 ug/L	97
45) 1,2-Dibromoethane	14.98	107	2446	0.88 ug/L #	77
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L	94
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.00 ug/L #	59
48) Chlorobenzene	16.12	112	10976	0.96 ug/L	93
49) Ethylbenzene	16.38	91	20598	0.96 ug/L	98
50) m,p-Xylenes	16.64	106	6910	0.92 ug/L	93
51) Styrene	17.10	104	10355	0.90 ug/L	99
52) o-Xylene	17.20	106	7210	0.98 ug/L	87
55) Bromoform	16.81	173	1545	0.94 ug/L #	76
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L #	91
57) 1,2,3-Trichloropropane	17.38	110	807	1.12 ug/L	98
58) Isopropylbenzene	17.70	105	16311	0.94 ug/L	99
59) Bromobenzene	18.05	156	3839	0.96 ug/L	97
60) n-Propylbenzene	18.30	91	23854	0.97 ug/L	100
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L	96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L	96
64) tert-Butylbenzene	19.09	119	12127	0.95 ug/L	97
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.97 ug/L	99
66) sec-Butylbenzene	19.38	105	21187	0.97 ug/L	98
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L	93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L	97
69) p-Isopropyltoluene	19.61	119	15312	0.92 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	6687	0.94 ug/L	99
71) n-Butylbenzene	20.11	91	17346	0.93 ug/L	96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.89 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	4683	1.02 ug/L	95
74) Naphthalene	22.63	128	5978	0.99 ug/L	100
75) Hexachlorobutadiene	22.68	225	2850	0.98 ug/L	89
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.93 ug/L	93

(#) = qualifier out of range (m) = manual integration
03171107.D 031711.M Fri Mar 18 08:37:19 2011

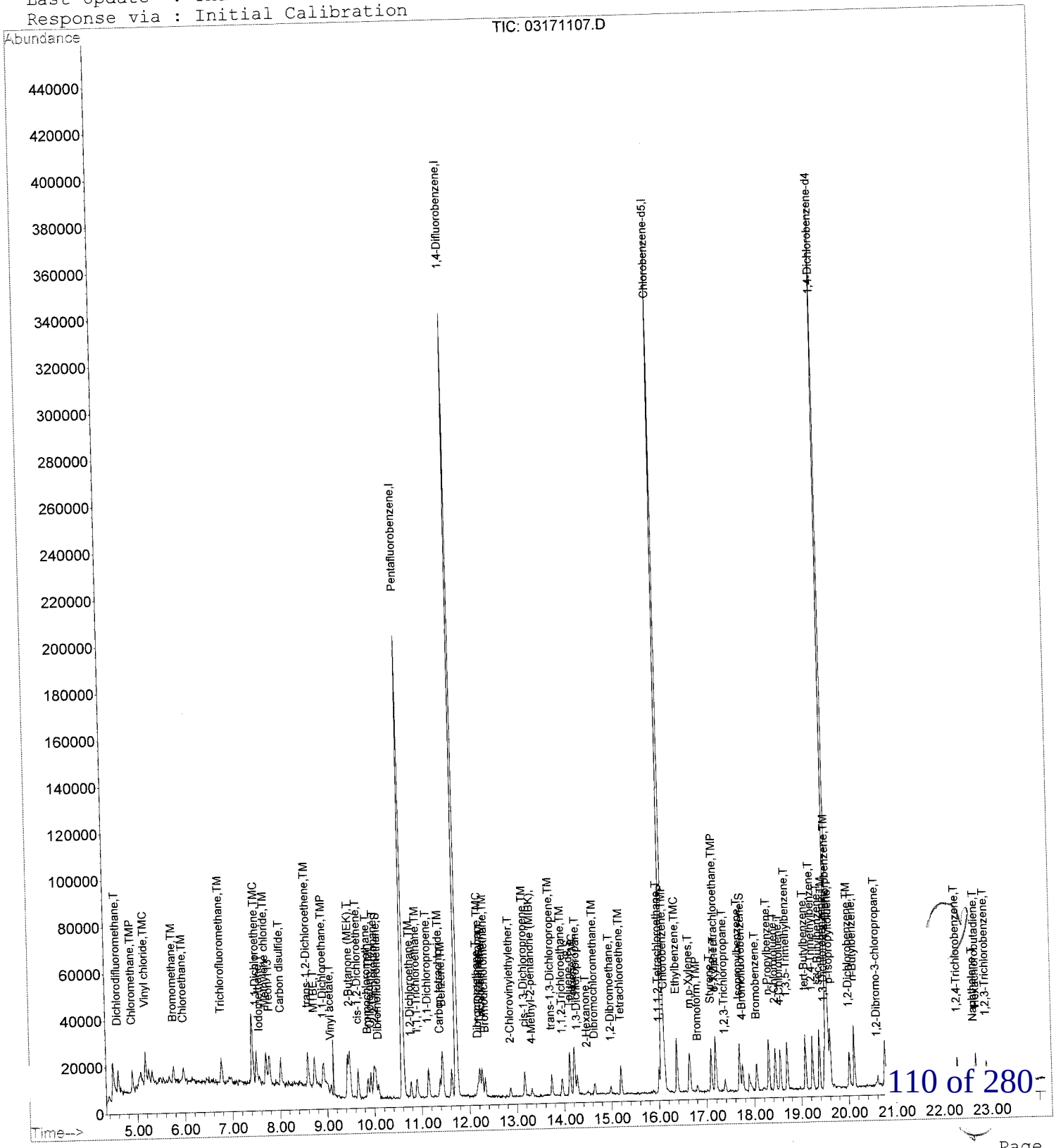
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171107.D 031711.M Fri Mar 18 08:37:20 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.85 ug/L	0.00
Spiked Amount 25.000			Recovery =	7.40%	
39) Toluene-d8	14.12	98	28802	1.93 ug/L	0.00
Spiked Amount 25.000			Recovery =	7.72%	
53) 4-Bromofluorobenzene	17.75	95	10411	1.94 ug/L	0.00
Spiked Amount 25.000			Recovery =	7.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.99 ug/L	96
3) Chloromethane	4.89	50	22795	1.75 ug/L	97
4) Vinyl chloride	5.18	62	22297	1.92 ug/L	95
5) Bromomethane	5.77	94	6970	1.40 ug/L	99
6) Chloroethane	5.98	64	11754	1.91 ug/L #	83
7) Trichlorofluoromethane	6.78	101	16143	2.00 ug/L	99
8) Acetone	6.94	43	4997	1.82 ug/L	99
9) Iodomethane	7.57	142	5343	1.55 ug/L	93
10) 1,1-Dichloroethene	7.51	96	8308	1.76 ug/L	96
11) Methylene chloride	7.71	84	10726	1.93 ug/L	98
12) Freon 113	7.77	101	10221	1.83 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.80 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.83 ug/L	97
15) MTBE	8.73	73	16615	1.86 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.89 ug/L	98
17) Vinyl acetate	9.08	43	14566	1.72 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	1.55 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.02 ug/L	92
20) Bromochloromethane	9.88	128	3627	1.84 ug/L	95
21) Chloroform	9.93	83	18162	2.02 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.93 ug/L	98
24) 1,2-Dichloroethane	10.78	62	10721	1.96 ug/L #	93
25) 1,1,1-Trichloroethane	10.91	97	12034	1.87 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	98
28) Carbon tetrachloride	11.38	117	9830	1.88 ug/L	94
29) Benzene	11.44	78	39494	1.95 ug/L	100
30) Dibromomethane	12.17	93	4597	1.92 ug/L	92
31) 1,2-Dichloropropane	12.22	63	10960	1.93 ug/L #	96
32) Trichloroethene	12.27	95	9761	1.92 ug/L	96
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.16 ug/L #	83
35) cis-1,3-Dichloropropene	13.16	75	13465	1.86 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.79 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.86 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.95 ug/L	96
40) Toluene	14.21	92	22811	1.98 ug/L	95
42) 1,3-Dichloropropane	14.28	76	10418	1.88 ug/L	90

(#) = qualifier out of range (m) = manual integration
03171108.D 031711.M Fri Mar 18 08:37:34 2011

3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

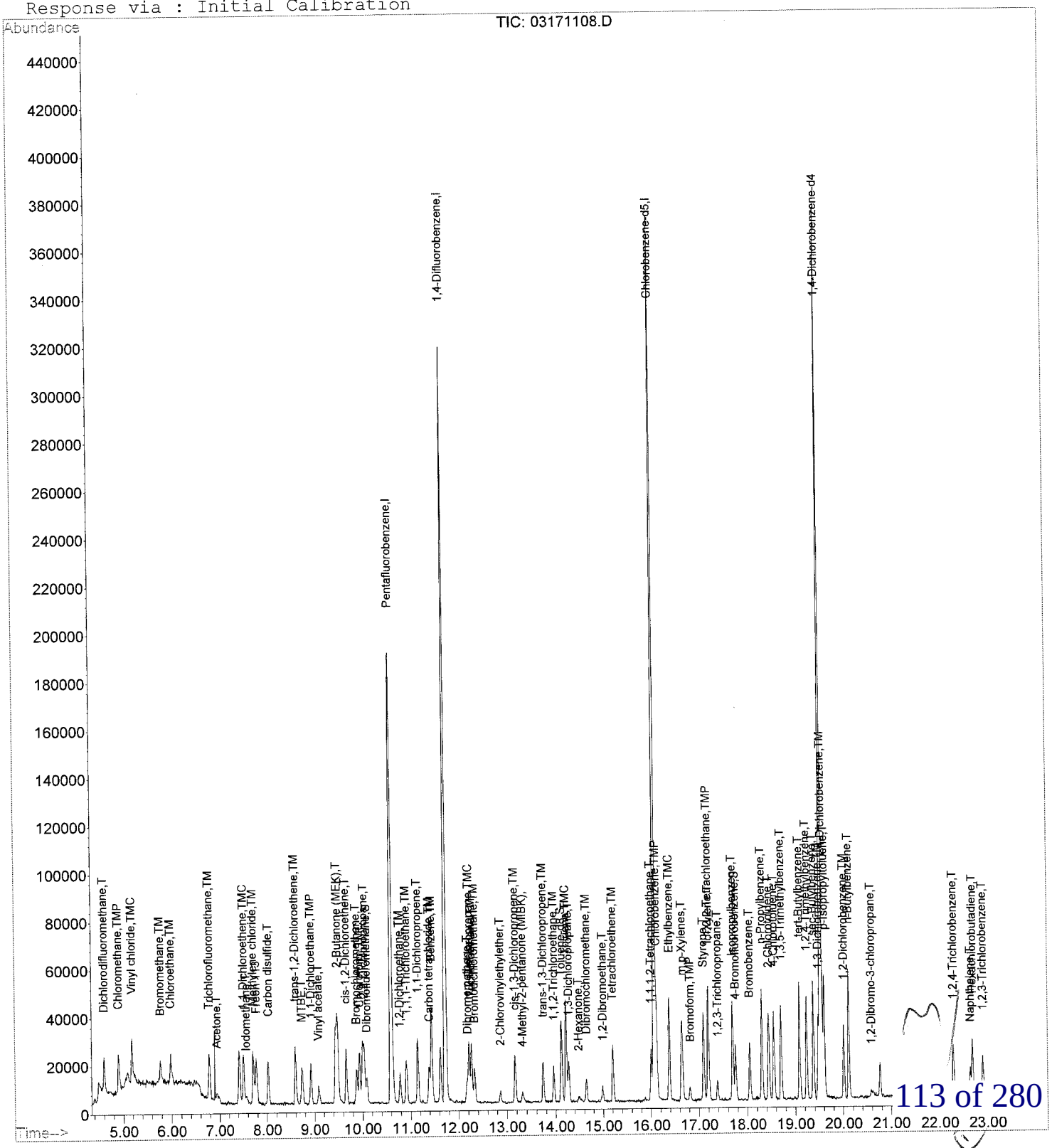
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2474	1.34 ug/L #	88
44) Dibromochloromethane	14.65	129	6238	1.88 ug/L	98
45) 1,2-Dibromoethane	14.99	107	5443	1.96 ug/L #	98
46) Tetrachloroethene	15.21	166	8224	1.88 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	6797	1.88 ug/L	92
48) Chlorobenzene	16.12	112	21803	1.90 ug/L	90
49) Ethylbenzene	16.38	91	40622	1.88 ug/L	100
50) m,p-Xylenes	16.64	106	14567	1.92 ug/L	98
51) Styrene	17.09	104	21955	1.91 ug/L	99
52) o-Xylene	17.19	106	14080	1.91 ug/L	99
55) Bromoform	16.81	173	2978	1.82 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L	93
57) 1,2,3-Trichloropropane	17.40	110	1450	2.02 ug/L	94
58) Isopropylbenzene	17.69	105	34246	1.98 ug/L	99
59) Bromobenzene	18.05	156	7927	1.99 ug/L	96
60) n-Propylbenzene	18.30	91	47531	1.93 ug/L	98
61) 2-Chlorotoluene	18.44	91	27642	1.91 ug/L	99
62) 4-Chlorotoluene	18.55	91	28051	1.96 ug/L	98
63) 1,3,5-Trimethylbenzene	18.71	105	28488	1.91 ug/L	97
64) tert-Butylbenzene	19.09	119	24316	1.91 ug/L	95
65) 1,2,4-Trimethylbenzene	19.24	105	29321	1.96 ug/L	95
66) sec-Butylbenzene	19.38	105	43119	1.98 ug/L	97
67) 1,3-Dichlorobenzene	19.48	146	16064	1.98 ug/L	97
68) 1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L	97
69) p-Isopropyltoluene	19.61	119	32053	1.93 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	13744	1.95 ug/L	98
71) n-Butylbenzene	20.12	91	35106	1.90 ug/L	97
72) 1,2-Dibromo-3-chloropropan	20.59	157	972	2.21 ug/L #	79
73) 1,2,4-Trichlorobenzene	22.29	180	8342	1.83 ug/L	96
74) Naphthalene	22.63	128	10824	1.79 ug/L	100
75) Hexachlorobutadiene	22.68	225	5711	1.96 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	7016	1.89 ug/L	94

(#) = qualifier out of range (m) = manual integration
03171108.D 031711.M Fri Mar 18 08:37:34 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171108.D 031711.M Fri Mar 18 08:37:35 2011 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re'Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 22.08%	
39) Toluene-d8	14.12	98	75601	5.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.20%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.68 ug/L	96
3) Chloromethane	4.90	50	69304	5.42 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.23 ug/L	97
5) Bromomethane	5.77	94	23286	4.14 ug/L	93
6) Chloroethane	5.98	64	31380	5.20 ug/L	95
7) Trichlorofluoromethane	6.78	101	44900	5.67 ug/L	97
8) Acetone	6.94	43	8551	6.12 ug/L	98
9) Iodomethane	7.57	142	19144	5.33 ug/L	97
10) 1,1-Dichloroethene	7.51	96	23635	5.12 ug/L	97
11) Methylene chloride	7.71	84	29505	5.43 ug/L	97
12) Freon 113	7.78	101	28220	5.16 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.39 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.35 ug/L	91
15) MTBE	8.74	73	47481	5.43 ug/L	99
16) 1,1-Dichloroethane	8.92	63	57409	5.38 ug/L	99
17) Vinyl acetate	9.09	43	45219	5.46 ug/L	98
18) 2-Butanone (MEK)	9.47	72	1224	5.50 ug/L #	37
19) cis-1,2-Dichloroethene	9.66	96	29437	5.56 ug/L	94
20) Bromochloromethane	9.87	128	11063	5.71 ug/L	95
21) Chloroform	9.93	83	49311	5.60 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.54 ug/L	100
24) 1,2-Dichloroethane	10.78	62	29254	5.45 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.54 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.40 ug/L	98
29) Benzene	11.44	78	106054	5.22 ug/L	98
30) Dibromomethane	12.17	93	12758	5.31 ug/L	97
31) 1,2-Dichloropropane	12.21	63	30926	5.45 ug/L	99
32) Trichloroethene	12.26	95	27719	5.46 ug/L	95
33) Bromodichloromethane	12.33	83	32710	5.49 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.89 ug/L	96
35) cis-1,3-Dichloropropene	13.17	75	39480	5.45 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	5.15 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.40 ug/L	99
40) Toluene	14.21	92	60380	5.23 ug/L	98
42) 1,3-Dichloropropane	14.27	76	31749	5.68 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031711.M Fri Mar 18 08:37:49 2011

MS 3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

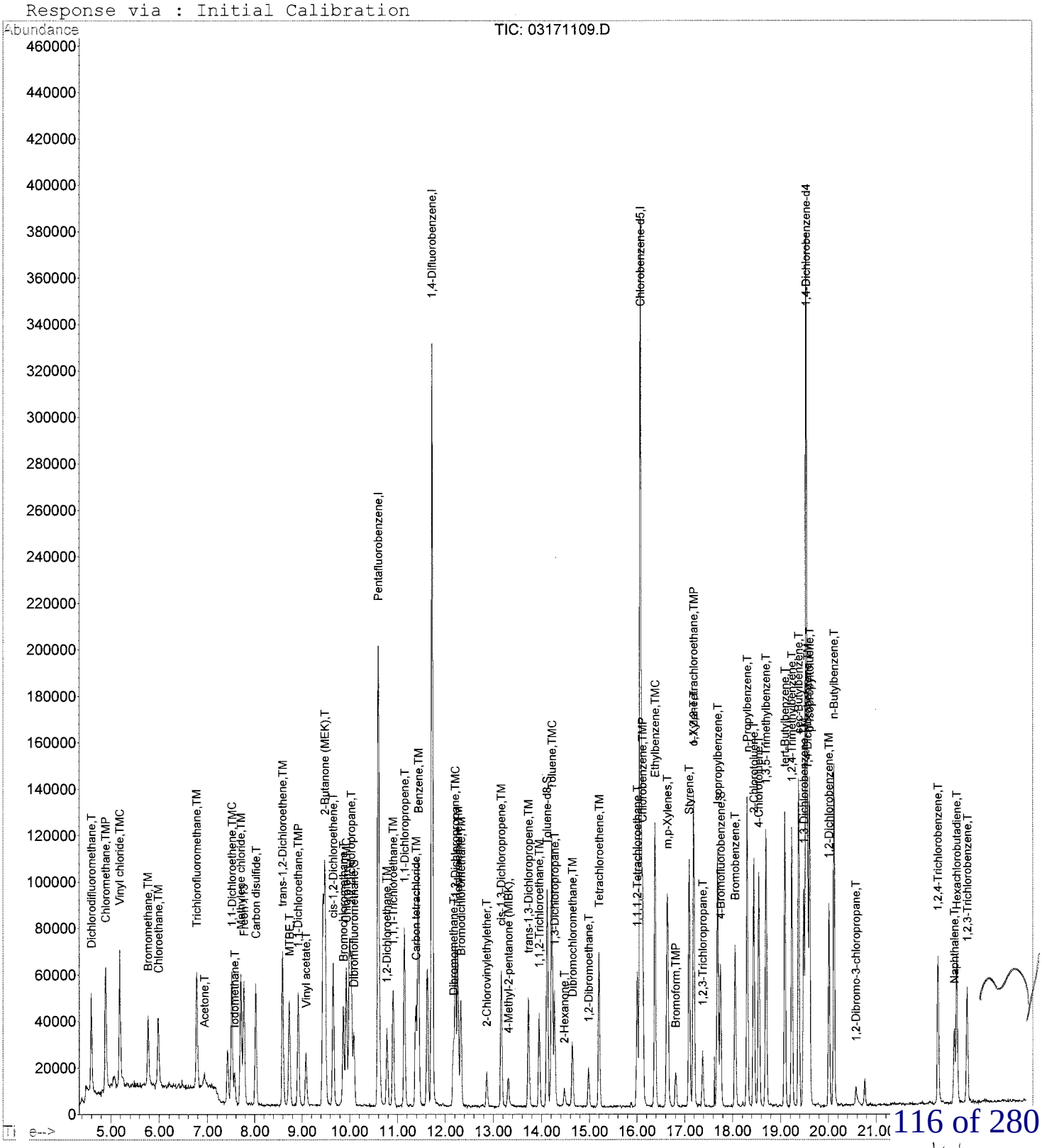
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	10625	5.70 ug/L #	86
44) Dibromochloromethane	14.64	129	17145	5.10 ug/L	98
45) 1,2-Dibromoethane	14.98	107	15883	5.66 ug/L #	98
46) Tetrachloroethene	15.21	166	22589	5.10 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.00	131	18388	5.02 ug/L	96
48) Chlorobenzene	16.12	112	60084	5.17 ug/L	96
49) Ethylbenzene	16.38	91	112334	5.13 ug/L	99
50) m,p-Xylenes	16.64	106	39718	5.18 ug/L	100
51) Styrene	17.09	104	62548	5.38 ug/L	98
52) o-Xylene	17.20	106	38050	5.11 ug/L	98
55) Bromoform	16.81	173	9209	5.49 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	4203	5.70 ug/L	90
58) Isopropylbenzene	17.69	105	91339	5.15 ug/L	98
59) Bromobenzene	18.05	156	21568	5.27 ug/L	95
60) n-Propylbenzene	18.30	91	134531	5.32 ug/L	98
61) 2-Chlorotoluene	18.45	91	75803	5.11 ug/L	100
62) 4-Chlorotoluene	18.55	91	77070	5.24 ug/L	97
63) 1,3,5-Trimethylbenzene	18.70	105	79213	5.17 ug/L	100
64) tert-Butylbenzene	19.09	119	66536	5.10 ug/L	98
65) 1,2,4-Trimethylbenzene	19.23	105	78965	5.13 ug/L	99
66) sec-Butylbenzene	19.37	105	115485	5.17 ug/L	98
67) 1,3-Dichlorobenzene	19.48	146	42641	5.12 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L	97
69) p-Isopropyltoluene	19.60	119	87337	5.11 ug/L	97
70) 1,2-Dichlorobenzene	20.01	146	38242	5.28 ug/L	99
71) n-Butylbenzene	20.12	91	99714	5.24 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	2137	4.73 ug/L	90
73) 1,2,4-Trichlorobenzene	22.28	180	24323	5.20 ug/L	100
74) Naphthalene	22.63	128	32491	5.23 ug/L	100
75) Hexachlorobutadiene	22.68	225	14709	4.92 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	20581	5.39 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031711.M Fri Mar 18 08:37:49 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 40.72%	
39) Toluene-d8	14.12	98	143321	9.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 38.48%	
53) 4-Bromofluorobenzene	17.75	95	50923	9.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 37.96%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	10.15 ug/L	99
3) Chloromethane	4.89	50	135497	10.40 ug/L	99
4) Vinyl chloride	5.19	62	111850	9.64 ug/L	99
5) Bromomethane	5.78	94	53427	9.01 ug/L	95
6) Chloroethane	5.98	64	63788	10.38 ug/L	99
7) Trichlorofluoromethane	6.78	101	85392	10.59 ug/L	98
8) Acetone	6.94	43	11502	9.36 ug/L	99
9) Iodomethane	7.57	142	36401	9.84 ug/L	98
10) 1,1-Dichloroethene	7.51	96	46909	9.97 ug/L	96
11) Methylene chloride	7.71	84	55460	10.02 ug/L	99
12) Freon 113	7.78	101	52409	9.41 ug/L	98
13) Carbon disulfide	8.03	76	162804	9.73 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.82 ug/L	96
15) MTBE	8.74	73	84759	9.53 ug/L	97
16) 1,1-Dichloroethane	8.92	63	108838	10.03 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.70 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	10.73 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	53573	9.94 ug/L	99
20) Bromochloromethane	9.88	128	20976	10.64 ug/L	95
21) Chloroform	9.93	83	95119	10.62 ug/L	99
22) 2,2-Dichloropropane	10.04	77	73939	10.18 ug/L	100
24) 1,2-Dichloroethane	10.77	62	53618	9.81 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	66517	10.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.20 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.38 ug/L	98
29) Benzene	11.44	78	201076	9.95 ug/L	99
30) Dibromomethane	12.17	93	24596	10.29 ug/L	97
31) 1,2-Dichloropropane	12.21	63	55294	9.80 ug/L	99
32) Trichloroethene	12.27	95	49861	9.87 ug/L	99
33) Bromodichloromethane	12.33	83	60334	10.17 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	11.51 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	73950	10.27 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.82 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.25 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	27640	10.34 ug/L	99
40) Toluene	14.21	92	114354	9.95 ug/L	98
42) 1,3-Dichloropropane	14.27	76	56624	10.22 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171110.D 031711.M Fri Mar 18 08:38:05 2011

3/18/11

LC 3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

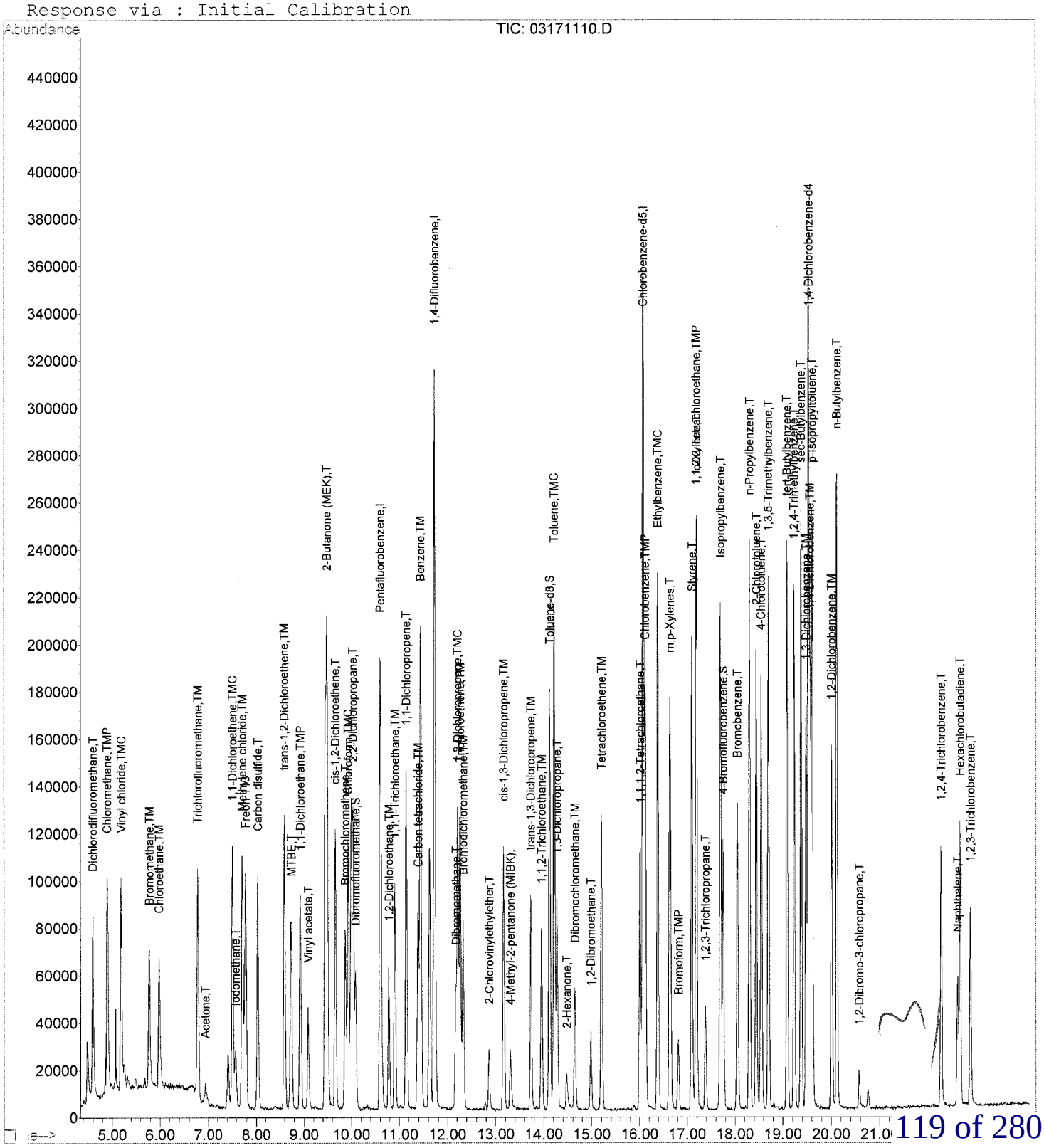
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	17603	9.53 ug/L #	98
44) Dibromochloromethane	14.64	129	32389	9.72 ug/L	99
45) 1,2-Dibromoethane	14.98	107	28536	10.26 ug/L	97
46) Tetrachloroethene	15.21	166	44478	10.13 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.01	131	35495	9.79 ug/L	98
48) Chlorobenzene	16.12	112	113625	9.87 ug/L	99
49) Ethylbenzene	16.38	91	215370	9.93 ug/L	100
50) m,p-Xylenes	16.64	106	74201	9.77 ug/L	99
51) Styrene	17.09	104	115227	10.01 ug/L	99
52) o-Xylene	17.20	106	71920	9.74 ug/L	100
55) Bromoform	16.81	173	16316	10.27 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L #	97
57) 1,2,3-Trichloropropane	17.39	110	7243	10.36 ug/L	91
58) Isopropylbenzene	17.69	105	176438	10.50 ug/L	99
59) Bromobenzene	18.05	156	40825	10.53 ug/L	98
60) n-Propylbenzene	18.30	91	250684	10.45 ug/L	99
61) 2-Chlorotoluene	18.45	91	143690	10.22 ug/L	100
62) 4-Chlorotoluene	18.55	91	141563	10.16 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	151285	10.42 ug/L	98
64) tert-Butylbenzene	19.09	119	128292	10.37 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	149598	10.25 ug/L	100
66) sec-Butylbenzene	19.37	105	214687	10.13 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	80400	10.17 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L	99
69) p-Isopropyltoluene	19.61	119	168592	10.41 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	69024	10.04 ug/L	98
71) n-Butylbenzene	20.12	91	183374	10.17 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	4643	10.84 ug/L	98
73) 1,2,4-Trichlorobenzene	22.28	180	41924	9.44 ug/L	100
74) Naphthalene	22.63	128	55616	9.45 ug/L	100
75) Hexachlorobutadiene	22.68	225	29027	10.24 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	34759	9.60 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171110.D 031711.M Fri Mar 18 08:38:05 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Re-Cal

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	25.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.00%	
39) Toluene-d8	14.12	98	359841	24.50 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.00%	
53) 4-Bromofluorobenzene	17.75	95	128707	24.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 96.88%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.77 ug/L	100
3) Chloromethane	4.89	50	322628	25.13 ug/L	100
4) Vinyl chloride	5.18	62	283499	24.80 ug/L	100
5) Bromomethane	5.78	94	141242	23.74 ug/L	100
6) Chloroethane	5.98	64	150117	24.77 ug/L	100
7) Trichlorofluoromethane	6.78	101	214158	26.95 ug/L	100
8) Acetone	6.94	43	25928	26.49 ug/L	100
9) Iodomethane	7.57	142	98109	26.69 ug/L	100
10) 1,1-Dichloroethene	7.51	96	111502	24.05 ug/L	100
11) Methylene chloride	7.71	84	132209	24.24 ug/L	100
12) Freon 113	7.77	101	133636	24.35 ug/L	100
13) Carbon disulfide	8.03	76	401884	24.37 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.73 ug/L	100
15) MTBE	8.74	73	214946	24.52 ug/L	100
16) 1,1-Dichloroethane	8.92	63	264682	24.74 ug/L	100
17) Vinyl acetate	9.08	43	202265	24.34 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6903	26.82 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	131490	24.75 ug/L	100
20) Bromochloromethane	9.87	128	47437	24.40 ug/L	100
21) Chloroform	9.93	83	218360	24.73 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	25.16 ug/L	100
24) 1,2-Dichloroethane	10.78	62	136474	25.33 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	162207	25.58 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.69 ug/L	100
28) Carbon tetrachloride	11.39	117	133369	25.91 ug/L	100
29) Benzene	11.44	78	490622	24.62 ug/L	100
30) Dibromomethane	12.17	93	58067	24.63 ug/L	100
31) 1,2-Dichloropropane	12.21	63	140014	25.15 ug/L	100
32) Trichloroethene	12.27	95	124690	25.02 ug/L	100
33) Bromodichloromethane	12.33	83	150764	25.77 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	28.39 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	183565	25.85 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	24.58 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.79 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	25.19 ug/L	100
40) Toluene	14.21	92	282149	24.90 ug/L	100
42) 1,3-Dichloropropane	14.27	76	140210	25.55 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031711.M Fri Mar 18 08:38:20 2011

ml 3/17/11

LC 3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

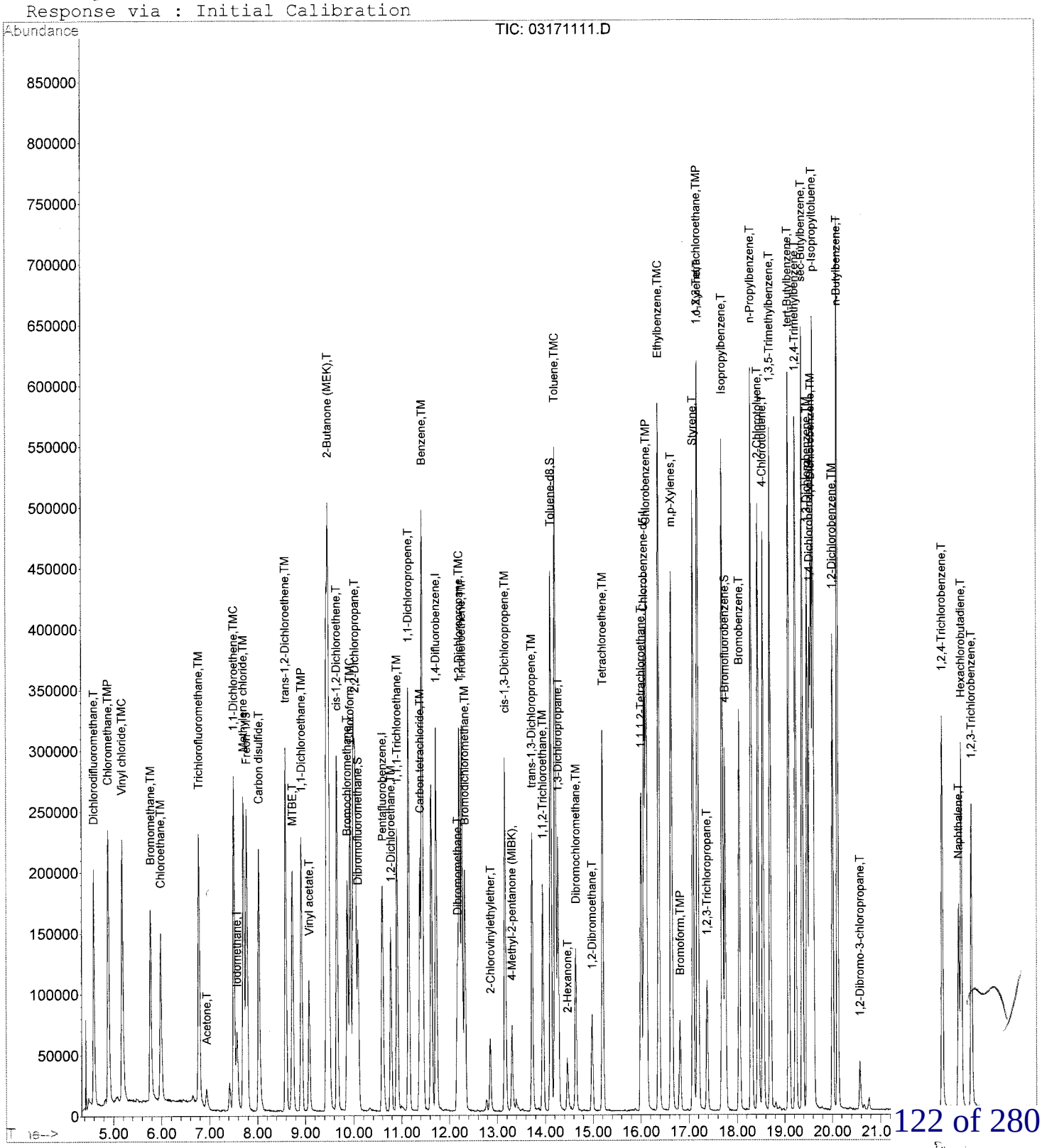
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	44449	24.30 ug/L #	100
44) Dibromochloromethane	14.64	129	81864	24.81 ug/L	100
45) 1,2-Dibromoethane	14.98	107	70424	25.57 ug/L	100
46) Tetrachloroethene	15.21	166	109364	25.15 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.01	131	87769	24.44 ug/L	100
48) Chlorobenzene	16.12	112	284407	24.96 ug/L	100
49) Ethylbenzene	16.37	91	538674	25.09 ug/L	100
50) m,p-Xylenes	16.64	106	186494	24.80 ug/L	100
51) Styrene	17.09	104	295005	25.87 ug/L	100
52) o-Xylene	17.19	106	177920	24.34 ug/L	100
55) Bromoform	16.81	173	42372	26.07 ug/L	100
56) 1,1,2,2-Tetrachloroethane	17.18	83	82184	25.00 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	18834	26.34 ug/L	100
58) Isopropylbenzene	17.69	105	445254	25.90 ug/L	100
59) Bromobenzene	18.05	156	105054	26.49 ug/L	100
60) n-Propylbenzene	18.30	91	632559	25.78 ug/L	100
61) 2-Chlorotoluene	18.44	91	364433	25.35 ug/L	100
62) 4-Chlorotoluene	18.55	91	369067	25.89 ug/L	100
63) 1,3,5-Trimethylbenzene	18.70	105	381972	25.71 ug/L	100
64) tert-Butylbenzene	19.09	119	324112	25.63 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	382900	25.64 ug/L	100
66) sec-Butylbenzene	19.37	105	556785	25.69 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	205642	25.45 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	201942	24.82 ug/L	100
69) p-Isopropyltoluene	19.61	119	434002	26.19 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	178826	25.44 ug/L	100
71) n-Butylbenzene	20.12	91	487367	26.43 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	11318	25.84 ug/L	100
73) 1,2,4-Trichlorobenzene	22.28	180	122376	26.96 ug/L	100
74) Naphthalene	22.63	128	163821	27.21 ug/L	100
75) Hexachlorobutadiene	22.69	225	76790	26.49 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	101564	27.44 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031711.M Fri Mar 18 08:38:21 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	46.49 ug/L	0.00
Spiked Amount 25.000			Recovery = 185.96%		
39) Toluene-d8	14.11	98	726789	47.56 ug/L	0.00
Spiked Amount 25.000			Recovery = 190.24%		
53) 4-Bromofluorobenzene	17.76	95	259969	47.19 ug/L	0.00
Spiked Amount 25.000			Recovery = 188.76%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	47.93 ug/L	98
3) Chloromethane	4.90	50	687656	50.97 ug/L	99
4) Vinyl chloride	5.18	62	596978	49.70 ug/L	98
5) Bromomethane	5.78	94	296252	47.13 ug/L	98
6) Chloroethane	5.99	64	300876	47.25 ug/L	99
7) Trichlorofluoromethane	6.78	101	340516	40.77 ug/L	97
8) Acetone	6.93	43	44278	45.51 ug/L	99
9) Iodomethane	7.58	142	195341	50.45 ug/L	98
10) 1,1-Dichloroethene	7.52	96	220268	45.21 ug/L	99
11) Methylene chloride	7.71	84	264019	46.07 ug/L	99
12) Freon 113	7.78	101	262900	45.58 ug/L	99
13) Carbon disulfide	8.03	76	807912	46.61 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.15 ug/L	98
15) MTBE	8.73	73	407385	44.23 ug/L	99
16) 1,1-Dichloroethane	8.92	63	517515	46.02 ug/L	99
17) Vinyl acetate	9.08	43	400997	45.91 ug/L	99
18) 2-Butanone (MEK)	9.47	72	13656	49.70 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	257331	46.10 ug/L	99
20) Bromochloromethane	9.87	128	96376	47.18 ug/L	96
21) Chloroform	9.93	83	424654	45.77 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.51 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	46.20 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	323769	48.60 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.20 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	50.05 ug/L	100
29) Benzene	11.44	78	1008066	48.61 ug/L	98
30) Dibromomethane	12.17	93	116662	47.55 ug/L	98
31) 1,2-Dichloropropane	12.21	63	281688	48.64 ug/L	100
32) Trichloroethene	12.26	95	255144	49.21 ug/L	99
33) Bromodichloromethane	12.33	83	300337	49.34 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	50.19 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	364674	49.35 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	47.40 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.75 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	48.12 ug/L	99
40) Toluene	14.22	92	583744	49.52 ug/L	98
42) 1,3-Dichloropropane	14.27	76	277506	48.79 ug/L	97

(#) = qualifier out of range (m) = manual integration
03171112.D 031711.M Fri Mar 18 08:38:39 2011

3/18/11
3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

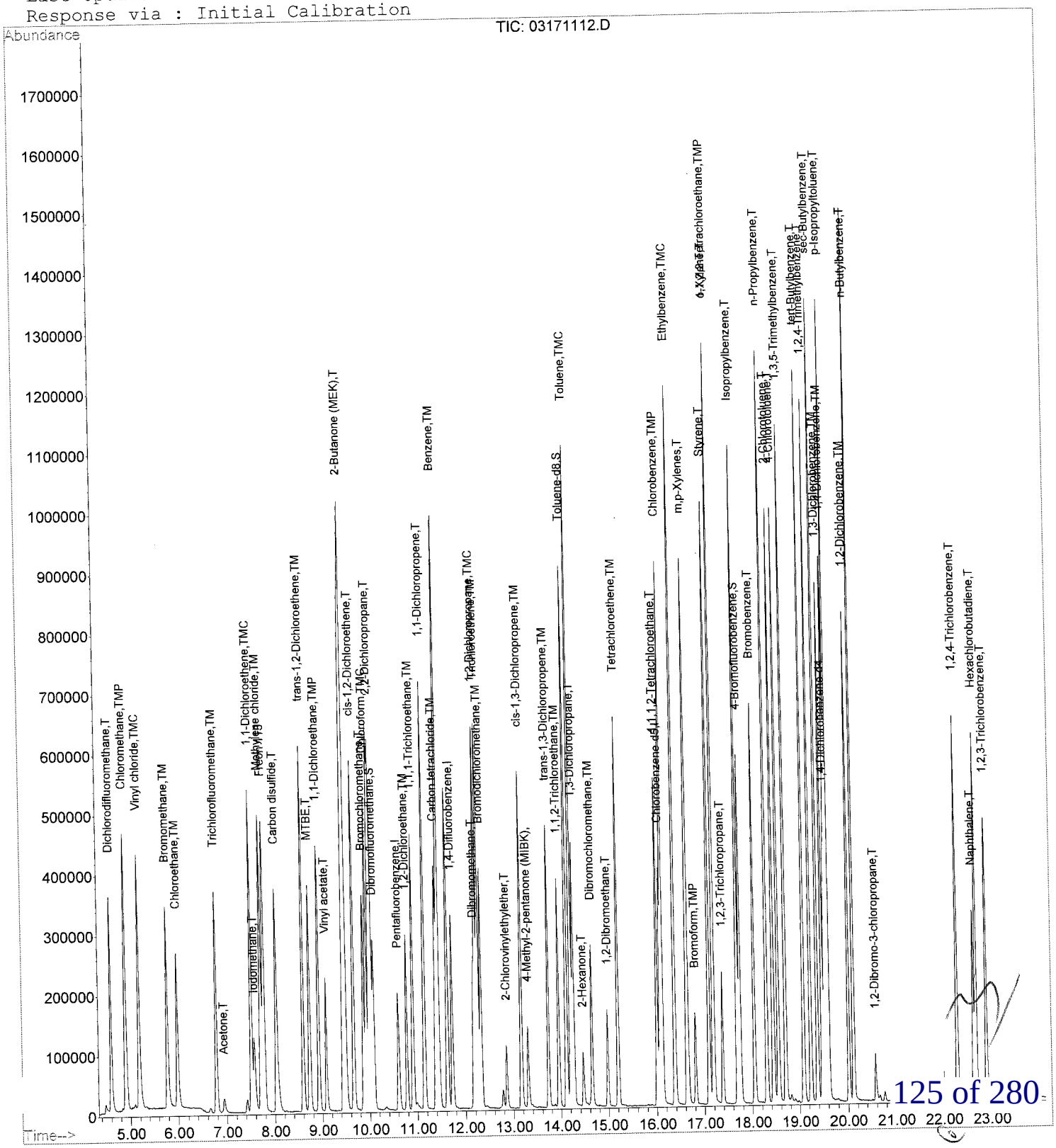
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	50.92 ug/L #	94
44) Dibromochloromethane	14.65	129	168655	49.32 ug/L	98
45) 1,2-Dibromoethane	14.98	107	142279	49.83 ug/L	97
46) Tetrachloroethene	15.20	166	223148	49.50 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	48.47 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.83 ug/L	99
49) Ethylbenzene	16.38	91	1095906	49.25 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.30 ug/L	98
51) Styrene	17.10	104	602783	50.99 ug/L	99
52) o-Xylene	17.20	106	366193	48.33 ug/L	97
55) Bromoform	16.82	173	87491	52.11 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.02 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	50.24 ug/L	96
58) Isopropylbenzene	17.70	105	904235	50.93 ug/L	99
59) Bromobenzene	18.05	156	210716	51.44 ug/L	99
60) n-Propylbenzene	18.30	91	1279523	50.48 ug/L	100
61) 2-Chlorotoluene	18.45	91	736550	49.60 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.32 ug/L	100
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.75 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	50.66 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	772492	50.09 ug/L	99
66) sec-Butylbenzene	19.38	105	1121222	50.08 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	414698	49.68 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	411367	48.95 ug/L	98
69) p-Isopropyltoluene	19.61	119	866615	50.64 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	49.55 ug/L	99
71) n-Butylbenzene	20.11	91	964633	50.65 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	49.85 ug/L	91
73) 1,2,4-Trichlorobenzene	22.28	180	240360	51.26 ug/L	99
74) Naphthalene	22.63	128	314469	50.58 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	50.29 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	192513	50.36 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171112.D 031711.M Fri Mar 18 08:38:39 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171112.D 031711.M Fri Mar 18 08:38:40 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Re-Cal

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	96.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 385.84%	
39) Toluene-d8	14.12	98	1505447	96.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 386.08%	
53) 4-Bromofluorobenzene	17.75	95	536695	97.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 390.08%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	94.19 ug/L	98
3) Chloromethane	4.90	50	1431368	104.65 ug/L	99
4) Vinyl chloride	5.18	62	1228117	100.85 ug/L	100
5) Bromomethane	5.78	94	641424	100.36 ug/L	98
6) Chloroethane	5.98	64	584071	90.47 ug/L	100
7) Trichlorofluoromethane	6.78	101	698452	82.49 ug/L	98
8) Acetone	6.94	43	84316	88.94 ug/L	97
9) Iodomethane	7.58	142	393011	100.00 ug/L	99
10) 1,1-Dichloroethene	7.52	96	450680	91.25 ug/L	99
11) Methylene chloride	7.71	84	530536	91.30 ug/L	99
12) Freon 113	7.78	101	537890	91.98 ug/L	99
13) Carbon disulfide	8.04	76	1652598	94.04 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.19 ug/L	96
15) MTBE	8.74	73	859812	92.07 ug/L	99
16) 1,1-Dichloroethane	8.93	63	1054794	92.52 ug/L	99
17) Vinyl acetate	9.08	43	827230	93.42 ug/L	99
18) 2-Butanone (MEK)	9.47	72	27904	99.26 ug/L	96
19) cis-1,2-Dichloroethene	9.66	96	527963	93.29 ug/L	99
20) Bromochloromethane	9.87	128	191014	92.23 ug/L	94
21) Chloroform	9.93	83	877382	93.27 ug/L	100
22) 2,2-Dichloropropane	10.04	77	739530	96.96 ug/L	99
24) 1,2-Dichloroethane	10.78	62	540824	94.21 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	659685	97.66 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.58 ug/L	98
28) Carbon tetrachloride	11.39	117	547122	100.10 ug/L	100
29) Benzene	11.44	78	2051183	96.91 ug/L	99
30) Dibromomethane	12.17	93	236182	94.32 ug/L	99
31) 1,2-Dichloropropane	12.21	63	573859	97.07 ug/L	99
32) Trichloroethene	12.27	95	518186	97.91 ug/L	100
33) Bromodichloromethane	12.33	83	619726	99.74 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	94.85 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	755768	100.21 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	100.07 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.98 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	97.54 ug/L	99
40) Toluene	14.22	92	1181672	98.20 ug/L	98
42) 1,3-Dichloropropane	14.27	76	562918	99.07 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171113.D 031711.M Fri Mar 18 08:38:55 2011

3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

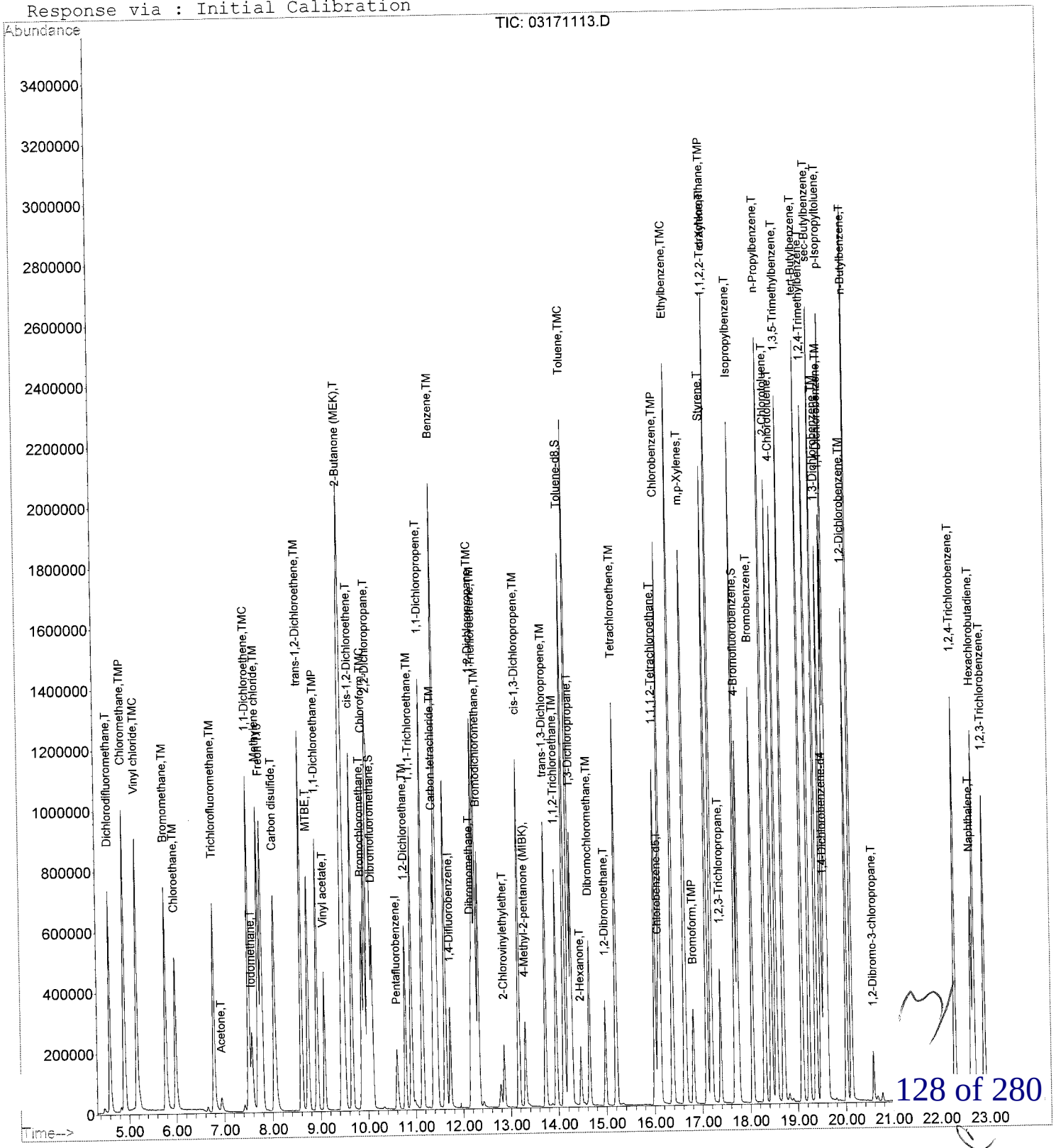
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	203381	107.35 ug/L #	96
44) Dibromochloromethane	14.65	129	341882	100.06 ug/L	98
45) 1,2-Dibromoethane	14.98	107	294156	103.12 ug/L	99
46) Tetrachloroethene	15.20	166	455622	101.17 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	371997	100.03 ug/L	98
48) Chlorobenzene	16.12	112	1190206	100.85 ug/L	99
49) Ethylbenzene	16.38	91	2245318	100.99 ug/L	100
50) m,p-Xylenes	16.64	106	773283	99.30 ug/L	100
51) Styrene	17.10	104	1244691	105.39 ug/L	99
52) o-Xylene	17.20	106	750628	99.16 ug/L	97
55) Bromoform	16.82	173	182147	105.27 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	341207	97.52 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	75618	99.33 ug/L	96
58) Isopropylbenzene	17.70	105	1844526	100.80 ug/L	100
59) Bromobenzene	18.05	156	429425	101.72 ug/L	99
60) n-Propylbenzene	18.30	91	2615929	100.14 ug/L	100
61) 2-Chlorotoluene	18.45	91	1500663	98.05 ug/L	99
62) 4-Chlorotoluene	18.55	91	1492720	98.39 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	1584063	100.18 ug/L	99
64) tert-Butylbenzene	19.09	119	1344278	99.86 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	1578520	99.31 ug/L	99
66) sec-Butylbenzene	19.39	105	2280043	98.81 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	847018	98.46 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	846913	97.78 ug/L	98
69) p-Isopropyltoluene	19.61	119	1785874	101.26 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	731103	97.71 ug/L	100
71) n-Butylbenzene	20.12	91	1981760	100.96 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	45883	98.40 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	510699	105.68 ug/L	99
74) Naphthalene	22.63	128	678287	105.85 ug/L	100
75) Hexachlorobutadiene	22.69	225	316227	102.46 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	412634	104.74 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171113.D 031711.M Fri Mar 18 08:38:56 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171113.D 031711.M Fri Mar 18 08:38:56 2011 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	839626	186.83 ug/L	0.00
Spiked Amount 25.000			Recovery	= 747.32%	
39) Toluene-d8	14.12	98	3013932	192.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 770.40%	
53) 4-Bromofluorobenzene	17.76	95	1038923	185.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 743.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	176.30 ug/L	98
3) Chloromethane	4.90	50	2913054	208.82 ug/L	99
4) Vinyl chloride	5.16	62	2428967	195.57 ug/L	100
5) Bromomethane	5.78	94	1343422	205.83 ug/L	97
6) Chloroethane	5.98	64	1199344	182.14 ug/L	100
7) Trichlorofluoromethane	6.79	101	1701514	197.03 ug/L	99
8) Acetone	6.94	43	201529	213.75 ug/L	98
9) Iodomethane	7.58	142	794173	198.00 ug/L	98
10) 1,1-Dichloroethene	7.52	96	920511	182.74 ug/L	98
11) Methylene chloride	7.71	84	1063508	179.46 ug/L	97
12) Freon 113	7.78	101	1079115	180.94 ug/L	98
13) Carbon disulfide	8.03	76	3312605	184.83 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	185.90 ug/L	97
15) MTBE	8.74	73	1719756	180.56 ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	181.08 ug/L	99
17) Vinyl acetate	9.08	43	1660788	183.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	57153	198.44 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	185.99 ug/L	98
20) Bromochloromethane	9.88	128	361702	171.24 ug/L	95
21) Chloroform	9.93	83	1746080	182.00 ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	186.19 ug/L	98
24) 1,2-Dichloroethane	10.78	62	1056987	180.53 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	1325051	192.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.84 ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	199.16 ug/L	100
29) Benzene	11.45	78	4061777	191.29 ug/L	99
30) Dibromomethane	12.17	93	461244	183.60 ug/L	98
31) 1,2-Dichloropropane	12.21	63	1126863	190.00 ug/L	100
32) Trichloroethene	12.27	95	1022222	192.52 ug/L	98
33) Bromodichloromethane	12.33	83	1217593	195.34 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	166.89 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	1495017	197.58 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	195.44 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.66 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	191.00 ug/L	100
40) Toluene	14.22	92	2368495	196.20 ug/L	98
42) 1,3-Dichloropropane	14.28	76	1107954	191.97 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171114.D 031711.M Fri Mar 18 08:39:11 2011

ML 3/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

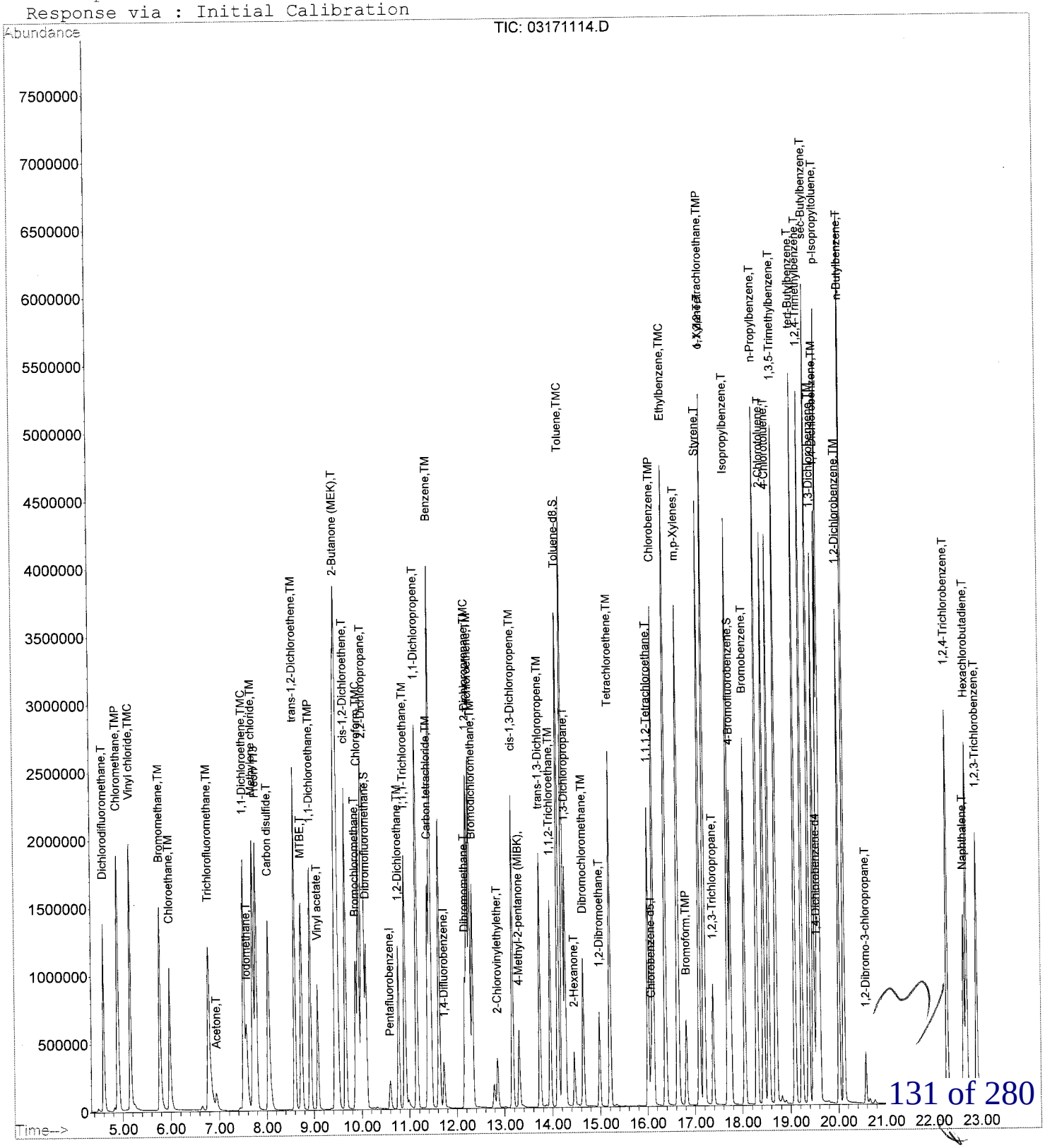
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	396743	206.17 ug/L #	96
44) Dibromochloromethane	14.65	129	686033	197.67 ug/L	99
45) 1,2-Dibromoethane	14.99	107	575405	198.59 ug/L	99
46) Tetrachloroethene	15.20	166	914229	199.85 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.02	131	755965	200.14 ug/L	96
48) Chlorobenzene	16.13	112	2393108	199.64 ug/L	97
49) Ethylbenzene	16.38	91	4465000	197.71 ug/L	99
50) m,p-Xylenes	16.64	106	1550944	196.07 ug/L	99
51) Styrene	17.10	104	2561762	213.54 ug/L	98
52) o-Xylene	17.20	106	1517247	197.33 ug/L	97
55) Bromoform	16.82	173	364089	184.76 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.19	83	656346	164.71 ug/L	97
57) 1,2,3-Trichloropropane	17.38	110	155202	179.01 ug/L	97
58) Isopropylbenzene	17.70	105	3655213	175.39 ug/L	99
59) Bromobenzene	18.05	156	865850	180.09 ug/L	98
60) n-Propylbenzene	18.31	91	5305462	178.33 ug/L	99
61) 2-Chlorotoluene	18.45	91	3128722	179.50 ug/L	99
62) 4-Chlorotoluene	18.56	91	3203621	185.40 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	3485140	193.53 ug/L	98
64) tert-Butylbenzene	19.09	119	2997423	195.51 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	3435108	189.77 ug/L	98
66) sec-Butylbenzene	19.39	105	5038432	191.73 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	1885851	192.49 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	1902798	192.90 ug/L	99
69) p-Isopropyltoluene	19.61	119	4021709	200.23 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	1645465	193.10 ug/L	99
71) n-Butylbenzene	20.12	91	4374192	195.66 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	102361	192.76 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	1107731	201.28 ug/L	98
74) Naphthalene	22.63	128	1413680	193.70 ug/L	100
75) Hexachlorobutadiene	22.69	225	688401	195.85 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	830638	185.13 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171114.D 031711.M Fri Mar 18 08:39:11 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: 8260B

DATE: 03/18/2011

WORK ORDER: PUC0829

11C0694

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-VOA-001, Rev. 1
Effective Date: 03/11/2010
Page No.: 1 of 1

ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-001 R.1
GC/MS Volatile Organic Analysis [Method No. EPA 624 & 8260B]

Analyst: LC

Analysis Date: 03/18/11

Description	Yes	No	NA[1]
1. BFB (50 ng or less): Verify meets criteria every 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.m	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:			
- Second source within historical limits	✓		
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓		
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- LCS/LSCD recoveries within historical limits	✓	✓	(1)
- RPD ≤ 25%	✓		
- Surrogates within historical limits	✓		
6. MS/MSD	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- MS/MSD recoveries within historical limits	✓	✓	(2) (3)
- RPD ≤ 25%	✓	✓	
- Surrogates within historical limits	✓		
7. Samples	✓		
- Analyzed within 14 days of sampling	✓		
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL or CCV	✓		
- Surrogate recoveries within historical limits	✓		
- pH ≤ 2	✓		
- If pH is not ≤ 2, flag data with P and pH Data Qualifier	✓		

Comments:
(1) Trichlorofluoromethane R7
(2) Iodomethane M7
(3) 1,1-DCE, Methylene chloride R2

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:		
	Analyst: [signature]	Date: 03/21/11
	Reviewer: [signature]	Date: 3/21/11

1) NA: Not Applicable

TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY

Air H2O

DATE: 03/18/11

QC BATCH # (s) : 11C0693 11C0694

ANALYST: LC

SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\031811

CALIBRATION METHOD(S): 031711.M

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
8	03181101	Blank	1x10mL	N/A	8260B	H2O	DNU-Clean Out
/	02	Tune	2uL				
9	03	25 PPB CCV	1x10mL				Acetone ↑
10	04	20 PPB CCV					
12	05	11C0693/ 11C0694 -BS1					
13	06	-BSD1					
16	07	-BLK1					
1	08	PUC0904-05A (TB)		≤2			PCE
2	09	0982-05A		≤2			
3	10	0827-02A		≤2			Source
4	11	11C0693 -MS1		≤2			
5	12	-MSD1		≤2			
6	13	PUC1236-01A	20x 0.5cc	N/A		Air	Source DNU @1220
7	14	DNU -DUP1					@1223
8	15	PUC1236-02A	1x 10cc				@1225
9 16	16	-01A		N/A		Air	Source @ 1435
10 7	17	11C0693 -DUP1					@ 1438
11 29	18	PUC0827-01A	1x10mL	≤2		H2O	
13 10	19	-03A		≤2			
16 12	20	-04A		≤2			
13	21	0829-01A		≤2			
16	22	0730-01B RE1		≤2			Possible carryover in orig
1	23	0904-04A		≤2			PCE
2	24	1205-01D	10x 1mL	pH=7			
3	25	1116-01E RE1	200x 50uL	pH=7			Acetone RR @1000xAcc
4	26	1079-02A (TB)	1x10mL	≤2	624		
5	27	1108-15A		≤2			
8	28	1079-01C		≤2			

LC 03/18/11

LC 03/21/11

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537

CALIBRATION STD: 1525

Internal Std: 1522

IS/Surrogate/BFB: 1534 /PU01261

LOT #: N/A

REQUIRED REVIEWS

ARCHON REVIEWED By / Date: LC 03/18/11

SEQUENCE REVIEWED By / Date: LC 03/18/11

FINAL REVIEWER / Date: 3/21/11

PX-VOA-009/C-07/09

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\031811

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	8	03181101.d	1.	BLANK		18 Mar 2011 07:39
2	1	03181102.d	1.	TUNE		18 Mar 2011 08:07
3	9	03181103.d	1.	25 PPB CCV		18 Mar 2011 08:26
4	10	03181104.d	1.	20 PPB CCV		18 Mar 2011 08:57
5	12	03181105.d	1.	-BS1		18 Mar 2011 09:28
6	13	03181106.d	1.	-BSD1		18 Mar 2011 09:58
7	16	03181107.d	1.	-BLK1		18 Mar 2011 10:29
8	1	03181108.d	1.	PUC0904-05	TB	18 Mar 2011 11:00
9	2	03181109.d	1.	PUC0982-05	TB	18 Mar 2011 11:30
10	3	03181110.d	1.	PUC0827-02	SOURCE	18 Mar 2011 12:01
11	4	03181111.d	1.	-MS1		18 Mar 2011 12:32
12	5	03181112.d	1.	-MSD1		18 Mar 2011 13:03
13	6	03181113.d	1.	PUC1236-01	20X	18 Mar 2011 13:33
14	7	03181114.d	1.	-DUP1	20X	18 Mar 2011 14:04
15	8	03181115.d	1.	PUC1236-02		18 Mar 2011 14:35
16	6	03181116.d	1.	PUC1236-01		18 Mar 2011 15:06
17	7	03181117.d	1.	-DUP1		18 Mar 2011 15:37
18	9	03181118.d	1.	PUC0827-01		18 Mar 2011 16:07
19	10	03181119.d	1.	PUC0827-03		18 Mar 2011 16:38
20	12	03181120.d	1.	PUC0827-04		18 Mar 2011 17:09
21	13	03181121.d	1.	PUC0829-01		18 Mar 2011 17:40
22	16	03181122.d	1.	PUC0730-01RE1		18 Mar 2011 18:11
23	1	03181123.d	1.	PUC0904-04		18 Mar 2011 18:42
24	2	03181124.d	1.	PUC1205-01	10X	18 Mar 2011 19:12
25	3	03181125.d	1.	PUC1116-01RE1	200X	18 Mar 2011 19:43
26	4	03181126.d	1.	PUC1079-02	TB	18 Mar 2011 20:14
27	5	03181127.d	1.	PUC1108-15	TB	18 Mar 2011 20:45
28	8	03181128.d	1.	PUC1079-01		18 Mar 2011 21:15

✓ 3/21/11

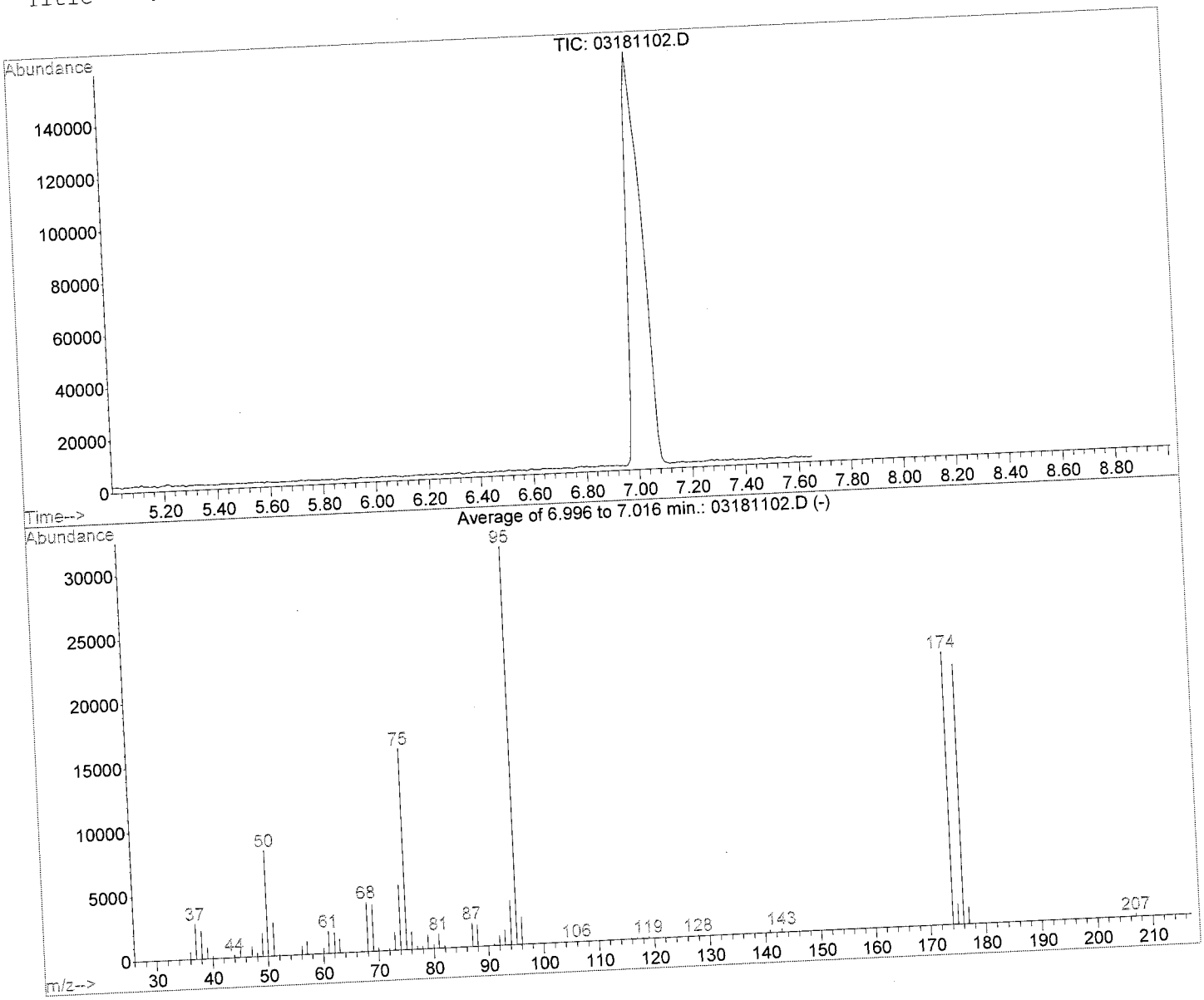
03/21/11

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181102.D
Acq On : 18 Mar 2011 8:07 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

3/21/11



Spectrum Information: Average of 6.996 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.5	8199	PASS
75	95	30	60	50.5	15631	PASS
95	95	100	100	100.0	30971	PASS
96	95	5	9	6.7	2089	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.5	21208	PASS
175	174	5	9	7.3	1545	PASS
176	174	95	101	95.2	20200	PASS
177	176	5	9	6.4	1295	PASS

LC 03/21/11

NEW8260-CCV

Data File Name	03181103.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031811\
Operator	LC
Date Acquired	3/18/2011 8:26
Acq. Method File	8260B
Sample Name	25 PPB CCV
Instrument Name	GCMS7

Internal Standard	**Target Response**	**CCV Response**	**Low**	**High**	**T/F**
Pentafluorobenzene	163018	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	288350	291205	145602.5	582410	TRUE
Chlorobenzene-d5	234811	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	108888	112264	56132	224528	TRUE

Name	**Amount**	**Spike Amount**	**% REC**	**Low**	**High**	**T/F**	
Dichlorodifluoromethane	23.27	25.00	93.09	60	150	TRUE	
Chloromethane	25.59	25.00	102.37	60	140	TRUE	
Vinyl chloride	24.62	25.00	98.47	80	120	TRUE	CCC
Bromomethane	21.53	25.00	86.12	70	140	TRUE	
Chloroethane	24.47	25.00	97.87	70	130	TRUE	
Trichlorofluoromethane	23.49	25.00	93.95	70	150	TRUE	
Acetone	27.89	25.00	111.56	10	150	TRUE	
Iodomethane	24.06	25.00	96.23	70	140	TRUE	
1,1-Dichloroethene	22.74	25.00	90.96	80	120	TRUE	CCC
Methylene chloride	22.89	25.00	91.58	70	120	TRUE	
Freon 113	23.01	25.00	92.02	60	140	TRUE	
Carbon disulfide	23.23	25.00	92.91	70	130	TRUE	
trans-1,2-Dichloroethene	23.40	25.00	93.60	80	120	TRUE	
MTBE	23.54	25.00	94.17	70	130	TRUE	
1,1-Dichloroethane	23.24	25.00	92.94	70	125	TRUE	
Vinyl acetate	23.06	25.00	92.24	40	150	TRUE	
2-Butanone (MEK)	26.67	25.00	106.68	40	150	TRUE	
cis-1,2-Dichloroethene	23.15	25.00	92.60	80	120	TRUE	
Bromochloromethane	23.31	25.00	93.22	80	120	TRUE	
Chloroform	23.43	25.00	93.71	80	120	TRUE	CCC
2,2-Dichloropropane	24.95	25.00	99.80	80	130	TRUE	
Dibromofluoromethane	**23.51**	**25.00**	**94.06**	**80**	**120**	TRUE	
1,2-Dichloroethane	23.56	25.00	94.24	75	130	TRUE	
1,1,1-Trichloroethane	24.05	25.00	96.21	80	120	TRUE	
1,1-Dichloropropene	24.08	25.00	96.30	80	120	TRUE	
Carbon tetrachloride	24.15	25.00	96.59	80	130	TRUE	
Benzene	23.45	25.00	93.80	80	120	TRUE	
Dibromomethane	23.37	25.00	93.48	80	120	TRUE	
1,2-Dichloropropane	23.69	25.00	94.75	80	120	TRUE	CCC
Trichloroethene	23.97	25.00	95.86	80	120	TRUE	
Bromodichloromethane	24.56	25.00	98.25	80	120	TRUE	
2-Chlorovinylethylether	26.44	25.00	105.77	70	135	TRUE	
cis-1,3-Dichloropropene	24.45	25.00	97.78	80	120	TRUE	
4-Methyl-2-pentanone (MIB	23.65	25.00	94.58	60	130	TRUE	
trans-1,3-Dichloropropene	24.28	25.00	97.13	80	125	TRUE	

3/21/11

LC 03/31/11

1,1,2-Trichloroethane	23.01	25.00	92.02	80	120	TRUE	
Toluene-d8	**22.71**	**25.00**	**90.83**	**80**	**120**	TRUE	
Toluene	23.59	25.00	94.37	80	120	TRUE	CCC
1,3-Dichloropropane	23.40	25.00	93.58	80	120	TRUE	
2-Hexanone	25.28	25.00	101.12	20	150	TRUE	
Dibromochloromethane	23.65	25.00	94.61	80	120	TRUE	
1,2-Dibromoethane	23.54	25.00	94.17	80	120	TRUE	
Tetrachloroethene	24.21	25.00	96.84	70	130	TRUE	
1,1,1,2-Tetrachloroethane	23.74	25.00	94.96	80	120	TRUE	
Chlorobenzene	23.51	25.00	94.05	80	120	TRUE	
Ethylbenzene	23.74	25.00	94.97	80	120	TRUE	CCC
m,p-Xylenes	23.67	25.00	94.67	60	140	TRUE	
Styrene	24.79	25.00	99.16	80	120	TRUE	
o-Xylene	23.49	25.00	93.96	80	120	TRUE	
4-Bromofluorobenzene	**23.09**	**25.00**	**92.37**	**80**	**120**	TRUE	
Bromoform	23.96	25.00	95.83	80	120	TRUE	
1,1,2,2-Tetrachloroethane	23.44	25.00	93.74	80	120	TRUE	
1,2,3-Trichloropropane	24.60	25.00	98.39	70	130	TRUE	
Isopropylbenzene	24.64	25.00	98.54	80	130	TRUE	
Bromobenzene	24.09	25.00	96.35	80	120	TRUE	
n-Propylbenzene	24.06	25.00	96.26	75	130	TRUE	
2-Chlorotoluene	23.68	25.00	94.70	80	120	TRUE	
4-Chlorotoluene	24.02	25.00	96.08	80	120	TRUE	
1,3,5-Trimethylbenzene	24.69	25.00	98.77	80	130	TRUE	
tert-Butylbenzene	24.15	25.00	96.59	80	120	TRUE	
1,2,4-Trimethylbenzene	23.94	25.00	95.77	80	120	TRUE	
sec-Butylbenzene	23.83	25.00	95.32	80	125	TRUE	
1,3-Dichlorobenzene	23.84	25.00	95.34	80	120	TRUE	
1,4-Dichlorobenzene	23.69	25.00	94.76	80	120	TRUE	
p-Isopropyltoluene	24.45	25.00	97.79	80	130	TRUE	
1,2-Dichlorobenzene	23.16	25.00	92.64	80	120	TRUE	
n-Butylbenzene	24.37	25.00	97.48	80	130	TRUE	
1,2-Dibromo-3-chloropropa	23.47	25.00	93.88	50	150	TRUE	
1,2,4-Trichlorobenzene	24.30	25.00	97.20	50	150	TRUE	
Naphthalene	22.67	25.00	90.68	40	150	TRUE	
Hexachlorobutadiene	25.09	25.00	100.34	40	150	TRUE	
1,2,3-Trichlorobenzene	24.49	25.00	97.97	60	140	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 18 12:03 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11 e

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163018	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	288350	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	234811	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	108888	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	96456	23.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 94.04%	
39) Toluene-d8	14.11	98	330236	22.71 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.84%	
53) 4-Bromofluorobenzene	17.74	95	118842	23.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.36%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	179237	23.27 ug/L	97
3) Chloromethane	4.90	50	325877	25.59 ug/L	98
4) Vinyl chloride	5.18	62	279081	24.62 ug/L	99
5) Bromomethane	5.77	94	126891	21.53 ug/L	96
6) Chloroethane	5.98	64	147050	24.47 ug/L	99
7) Trichlorofluoromethane	6.78	101	185141	23.49 ug/L	100
8) Acetone	6.92	43	26901	27.89 ug/L	99
9) Iodomethane	7.57	142	87668	24.06 ug/L	98
10) 1,1-Dichloroethene	7.51	96	104551	22.74 ug/L	99
11) Methylene chloride	7.71	84	123842	22.89 ug/L	99
12) Freon 113	7.77	101	125234	23.01 ug/L	99
13) Carbon disulfide	8.02	76	379972	23.23 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	119037	23.40 ug/L	99
15) MTBE	8.73	73	204673	23.54 ug/L	100
16) 1,1-Dichloroethane	8.92	63	246596	23.24 ug/L	99
17) Vinyl acetate	9.08	43	190087	23.06 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6808	26.67 ug/L	83
19) cis-1,2-Dichloroethene	9.66	96	121956	23.15 ug/L	99
20) Bromochloromethane	9.87	128	44931	23.31 ug/L	96
21) Chloroform	9.92	83	205152	23.43 ug/L	99
22) 2,2-Dichloropropane	10.03	77	177134	24.95 ug/L	100
24) 1,2-Dichloroethane	10.77	62	125911	23.56 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	151238	24.05 ug/L	100
27) 1,1-Dichloropropene	11.15	75	177713	24.08 ug/L	99
28) Carbon tetrachloride	11.38	117	123065	24.15 ug/L	99
29) Benzene	11.43	78	462743	23.45 ug/L	98
30) Dibromomethane	12.16	93	54563	23.37 ug/L	98
31) 1,2-Dichloropropane	12.20	63	130555	23.69 ug/L	99
32) Trichloroethene	12.26	95	118263	23.97 ug/L	99
33) Bromodichloromethane	12.32	83	142290	24.56 ug/L	100
34) 2-Chlorovinylethylether	12.85	63	26853	26.44 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	171902	24.45 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	68113	23.65 ug/L	98
37) trans-1,3-Dichloropropene	13.72	75	131779	24.28 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	60029	23.01 ug/L	98
40) Toluene	14.20	92	264705	23.59 ug/L	98
42) 1,3-Dichloropropane	14.26	76	124306	23.40 ug/L	96

(#) = qualifier out of range (m) = manual integration
03181103.D 031711.M Fri Mar 18 12:03:56 2011

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 18 12:03 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

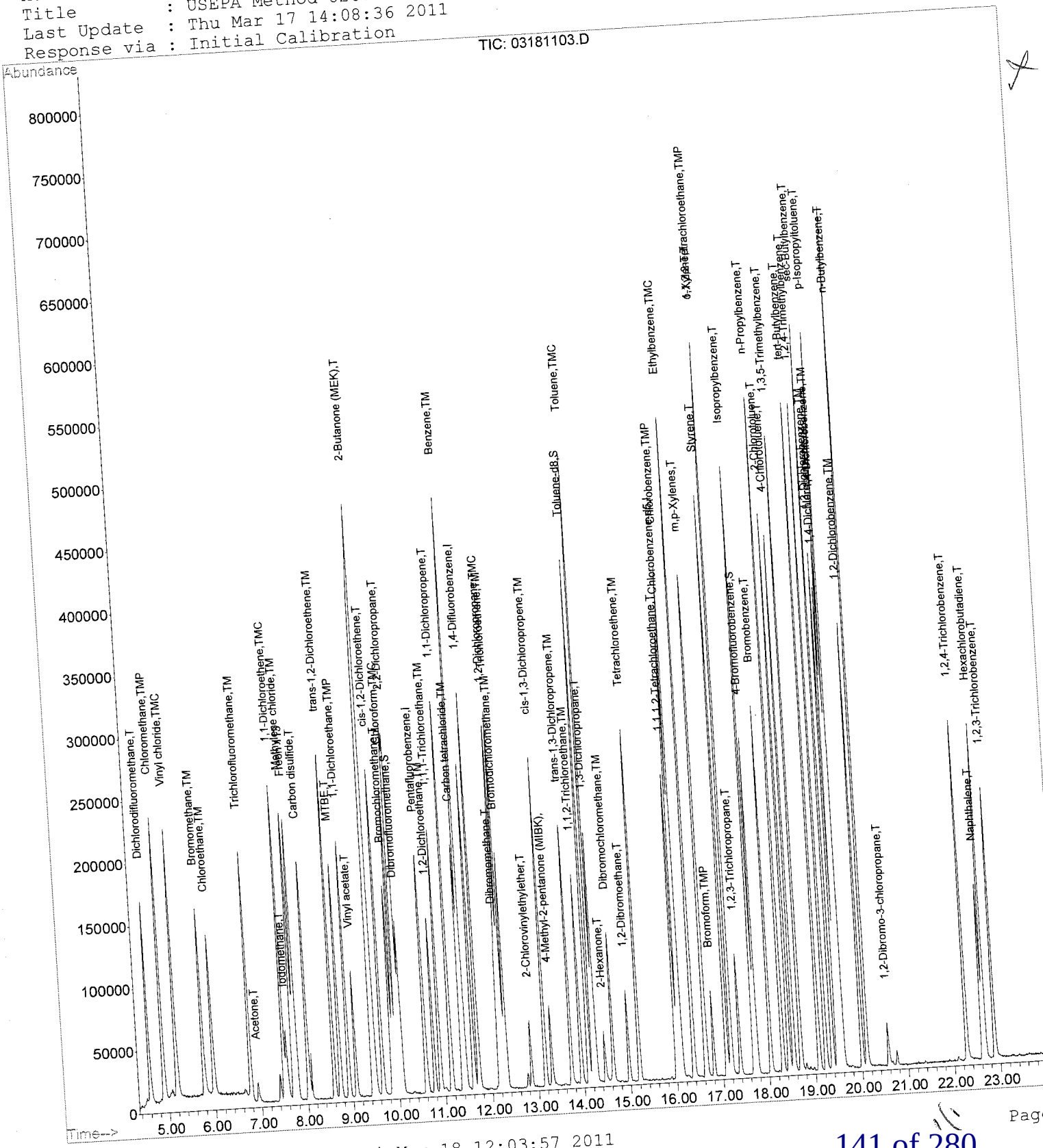
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	44787	25.28 ug/L #	95
44) Dibromochloromethane	14.64	129	75574	23.65 ug/L	99
45) 1,2-Dibromoethane	14.97	107	62801	23.54 ug/L	96
46) Tetrachloroethene	15.20	166	101959	24.21 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.00	131	82557	23.74 ug/L	97
48) Chlorobenzene	16.11	112	259478	23.51 ug/L	99
49) Ethylbenzene	16.38	91	493621	23.74 ug/L	100
50) m,p-Xylenes	16.63	106	172346	23.67 ug/L	98
51) Styrene	17.09	104	273768	24.79 ug/L	98
52) o-Xylene	17.19	106	166268	23.49 ug/L	96
55) Bromoform	16.81	173	37773	23.96 ug/L	94
56) 1,1,2,2-Tetrachloroethane	17.18	83	74718	23.44 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	17062	24.60 ug/L	97
58) Isopropylbenzene	17.69	105	410764	24.64 ug/L	100
59) Bromobenzene	18.04	156	92660	24.09 ug/L	98
60) n-Propylbenzene	18.29	91	572801	24.06 ug/L	100
61) 2-Chlorotoluene	18.44	91	330154	23.68 ug/L	99
62) 4-Chlorotoluene	18.55	91	332051	24.02 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	355783	24.69 ug/L	99
64) tert-Butylbenzene	19.09	119	296214	24.15 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	346750	23.94 ug/L	99
66) sec-Butylbenzene	19.37	105	501006	23.83 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	186834	23.84 ug/L	98
68) 1,4-Dichlorobenzene	19.56	146	186953	23.69 ug/L	99
69) p-Isopropyltoluene	19.60	119	392872	24.45 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	157901	23.16 ug/L	98
71) n-Butylbenzene	20.11	91	435904	24.37 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.57	157	9972	23.47 ug/L	89
73) 1,2,4-Trichlorobenzene	22.28	180	107001	24.30 ug/L	99
74) Naphthalene	22.62	128	132378	22.67 ug/L	100
75) Hexachlorobutadiene	22.68	225	70543	25.09 ug/L	97
76) 1,2,3-Trichlorobenzene	22.89	180	87921	24.49 ug/L	98

(#) = qualifier out of range (m) = manual integration
03181103.D 031711.M Fri Mar 18 12:03:56 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 18 12:03 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03181103.D 031711.M Fri Mar 18 12:03:57 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

3/21/11

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	1.181	1.099	6.9	90	0.00
3	TMP	Chloromethane	1.953	1.999	-2.4	101	0.00
4	TMC	Vinyl chloride	1.739	1.712	1.6	98	0.00
5	TM	Bromomethane	0.813	0.778	4.3	90	0.00
6	TM	Chloroethane	0.922	0.902	2.2	98	0.00
7	TM	Trichlorofluoromethane	1.209	1.136	6.0	86	0.00
8	T	Acetone	0.194	0.165	14.9	104	-0.02
9	T	Iodomethane	0.531	0.538	-1.3	89	0.00
10	TMC	1,1-Dichloroethene	0.705	0.641	9.1	94	0.00
11	TM	Methylene chloride	0.830	0.760	8.4	94	0.00
12		Freon 113	0.835	0.768	8.0	94	0.00
13	T	Carbon disulfide	2.509	2.331	7.1	95	0.00
14	TM	trans-1,2-Dichloroethene	0.780	0.730	6.4	94	0.00
15	T	MTBE	1.333	1.256	5.8	95	0.00
16	TMP	1,1-Dichloroethane	1.628	1.513	7.1	93	0.00
17	T	Vinyl acetate	1.264	1.166	7.8	94	0.00
18	T	2-Butanone (MEK)	0.036	0.042#	-16.7	99	0.00
19	T	cis-1,2-Dichloroethene	0.808	0.748	7.4	93	0.00
20	T	Bromochloromethane	0.296	0.276	6.8	95	0.00
21	TMC	Chloroform	1.343	1.258	6.3	94	0.00
22	T	2,2-Dichloropropane	1.089	1.087	0.2	98	0.00
23	S	Dibromofluoromethane	0.629	0.592	5.9	93	0.00
24	TM	1,2-Dichloroethane	0.820	0.772	5.9	92	0.00
25	TM	1,1,1-Trichloroethane	0.964	0.928	3.7	93	0.00
26	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
27	T	1,1-Dichloropropene	0.640	0.616	3.8	93	0.00
28	TM	Carbon tetrachloride	0.442	0.427	3.4	92	0.00
29	TM	Benzene	1.711	1.605	6.2	94	0.00
30	T	Dibromomethane	0.202	0.189	6.4	94	0.00
31	TMC	1,2-Dichloropropane	0.478	0.453	5.2	93	0.00
32	TM	Trichloroethene	0.428	0.410	4.2	95	0.00
33	TM	Bromodichloromethane	0.502	0.493	1.8	94	0.00
34	T	2-Chlorovinylethylether	0.101	0.093#	7.9	93	0.00
35	TM	cis-1,3-Dichloropropene	0.610	0.596	2.3	94	0.00
36		4-Methyl-2-pentanone (MIBK)	0.250	0.236	5.6	95	0.00
37	TM	trans-1,3-Dichloropropene	0.471	0.457	3.0	93	0.00
38	TM	1,1,2-Trichloroethane	0.226	0.208	8.0	90	0.00
39	S	Toluene-d8	1.261	1.145	9.2	92	0.00
40	TMC	Toluene	0.973	0.918	5.7	94	0.00
41	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
42	T	1,3-Dichloropropane	0.566	0.529	6.5	89	0.00
43	T	2-Hexanone	0.189	0.191	-1.1	101	0.00
44	TM	Dibromochloromethane	0.340	0.322	5.3	92	0.00
45	T	1,2-Dibromoethane	0.284	0.267	6.0	89	0.00
46	TM	Tetrachloroethene	0.448	0.434	3.1	93	0.00
47	T	1,1,1,2-Tetrachloroethane	0.370	0.352	4.9	94	0.00
48	TMP	Chlorobenzene	1.175	1.105	6.0	91	0.00

(#) = Out of Range
03181103.D 031711.M Fri Mar 18 12:04:01 2011

LC 03/21/11

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181103.D Vial: 9
Acq On : 18 Mar 2011 8:26 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	TMC	Ethylbenzene	2.214	2.102	5.1	92	0.00
50	T	m,p-Xylenes	0.775	0.734	5.3	92	0.00
51	T	Styrene	1.176	1.166	0.9	93	0.00
52	T	o-Xylene	0.754	0.708	6.1	93	0.00
53	S	4-Bromofluorobenzene	0.548	0.506	7.7	92	0.00
54		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
55	TMP	Bromoform	0.362	0.347	4.1	89	0.00
56	TMP	1,1,2,2-Tetrachloroethane	0.732	0.686	6.3	91	0.00
57	T	1,2,3-Trichloropropane	0.159	0.157	1.3	91	0.00
58	T	Isopropylbenzene	3.828	3.772	1.5	92	0.00
59	T	Bromobenzene	0.883	0.851	3.6	88	0.00
60	T	n-Propylbenzene	5.465	5.260	3.8	91	0.00
61	T	2-Chlorotoluene	3.202	3.032	5.3	91	0.00
62	T	4-Chlorotoluene	3.174	3.049	3.9	90	0.00
63	T	1,3,5-Trimethylbenzene	3.308	3.267	1.2	93	0.00
64	T	tert-Butylbenzene	2.816	2.720	3.4	91	0.00
65	T	1,2,4-Trimethylbenzene	3.325	3.184	4.2	91	0.00
66	T	sec-Butylbenzene	4.827	4.601	4.7	90	0.00
67	TM	1,3-Dichlorobenzene	1.800	1.716	4.7	91	0.00
68	TM	1,4-Dichlorobenzene	1.812	1.717	5.2	93	0.00
69	T	p-Isopropyltoluene	3.690	3.608	2.2	91	0.00
70	TM	1,2-Dichlorobenzene	1.565	1.450	7.3	88	0.00
71	T	n-Butylbenzene	4.107	4.003	2.5	89	0.00
72	T	1,2-Dibromo-3-chloropropane	0.098	0.092#	6.1	88	0.00
73	T	1,2,4-Trichlorobenzene	1.011	0.983	2.8	87	0.00
74	T	Naphthalene	1.341	1.216	9.3	81	0.00
75	T	Hexachlorobutadiene	0.646	0.648	-0.3	92	0.00
76	T	1,2,3-Trichlorobenzene	0.824	0.807	2.1	87	0.00

SPCC's out = 0 CCC's out = 0

(#) = Out of Range
03181103.D 031711.M Fri Mar 18 12:04:01 2011

624-CCV

3/21/11

Data File Name	03181104.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031811\
Operator	LC
Date Acquired	3/18/2011 8:57
Acq. Method File	8260B
Sample Name	20 PPB CCV
Instrument Name	GCMS7

Internal Standard	**Target Response**	**CCV Response**	**Low**	**High**	**T/F**
Pentafluorobenzene	157055	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	276535	291205	145602.5	582410	TRUE
Chlorobenzene-d5	227866	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	106277	112264	56132	224528	TRUE

Name	**Amount**	**Spike Amount**	**% REC**	**Low**	**High**	**T/F**
Dichlorodifluoromethane	19.24	20.00	96.20	60	150	TRUE
Chloromethane	19.55	20.00	97.76	0	204	TRUE
Vinyl chloride	19.88	20.00	99.42	4	196	TRUE
Bromomethane	17.87	20.00	89.35	14	186	TRUE
Chloroethane	19.27	20.00	96.34	38	162	TRUE
Trichlorofluoromethane	16.71	20.00	83.55	48	152	TRUE
Acetone	31.46	20.00	157.28	10	150	FALSE
Iodomethane	20.70	20.00	103.51	70	140	TRUE
1,1-Dichloroethene	18.53	20.00	92.66	50	150	TRUE
Methylene chloride	18.11	20.00	90.53	60	140	TRUE
Freon 113	18.69	20.00	93.47	60	140	TRUE
Carbon disulfide	18.72	20.00	93.60	70	130	TRUE
trans-1,2-Dichloroethene	19.23	20.00	96.13	70	130	TRUE
MTBE	17.58	20.00	87.91	70	130	TRUE
1,1-Dichloroethane	18.58	20.00	92.92	72	128	TRUE
Vinyl acetate	17.54	20.00	87.72	40	150	TRUE
2-Butanone (MEK)	24.56	20.00	122.78	40	150	TRUE
cis-1,2-Dichloroethene	18.28	20.00	91.41	80	120	TRUE
Bromochloromethane	18.77	20.00	93.86	80	120	TRUE
Chloroform	18.75	20.00	93.75	68	132	TRUE
2,2-Dichloropropane	20.01	20.00	100.05	80	130	TRUE
Dibromofluoromethane	**19.00**	**20.00**	**95.02**	**80**	**135**	**TRUE**
1,2-Dichloroethane	18.24	20.00	91.19	68	132	TRUE
1,1,1-Trichloroethane	19.74	20.00	98.70	75	125	TRUE
1,1-Dichloropropene	19.34	20.00	96.70	80	120	TRUE
Carbon tetrachloride	20.11	20.00	100.56	73	127	TRUE
Benzene	19.23	20.00	96.17	64	136	TRUE
Dibromomethane	19.15	20.00	95.74	80	120	TRUE
1,2-Dichloropropane	18.68	20.00	93.40	34	166	TRUE
Trichloroethene	19.02	20.00	95.09	66	134	TRUE
Bromodichloromethane	19.00	20.00	95.00	66	134	TRUE
2-Chlorovinylethylether	20.20	20.00	101.02	0	224	TRUE
cis-1,3-Dichloropropene	19.46	20.00	97.28	24	176	TRUE
4-Methyl-2-pentanone (MIB	18.21	20.00	91.06	60	130	TRUE
trans-1,3-Dichloropropene	18.75	20.00	93.77	50	150	TRUE

LC 03/21/11

1,1,2-Trichloroethane	18.28	20.00	91.42	71	129	TRUE
Toluene-d8	**19.04**	**20.00**	**95.18**	**80**	**125**	**TRUE**
Toluene	19.45	20.00	97.26	74	126	TRUE
1,3-Dichloropropane	18.89	20.00	94.47	80	120	TRUE
2-Hexanone	23.20	20.00	116.02	20	150	TRUE
Dibromochloromethane	18.58	20.00	92.89	68	132	TRUE
1,2-Dibromoethane	18.58	20.00	92.91	80	120	TRUE
Tetrachloroethene	19.74	20.00	98.71	74	126	TRUE
1,1,1,2-Tetrachloroethane	19.01	20.00	95.06	80	120	TRUE
Chlorobenzene	19.15	20.00	95.73	66	134	TRUE
Ethylbenzene	19.61	20.00	98.03	59	141	TRUE
m,p-Xylenes	19.79	20.00	98.97	60	140	TRUE
Styrene	19.87	20.00	99.37	80	120	TRUE
o-Xylene	18.98	20.00	94.92	80	120	TRUE
4-Bromofluorobenzene	**18.78**	**20.00**	**93.91**	**75**	**125**	**TRUE**
Bromoform	19.52	20.00	97.60	71	129	TRUE
1,1,2,2-Tetrachloroethane	18.77	20.00	93.85	60	140	TRUE
1,2,3-Trichloropropane	18.30	20.00	91.51	70	130	TRUE
Isopropylbenzene	20.08	20.00	100.39	80	130	TRUE
Bromobenzene	19.74	20.00	98.72	80	120	TRUE
n-Propylbenzene	20.08	20.00	100.42	75	130	TRUE
2-Chlorotoluene	19.48	20.00	97.38	80	120	TRUE
4-Chlorotoluene	19.56	20.00	97.79	80	120	TRUE
1,3,5-Trimethylbenzene	19.72	20.00	98.62	80	130	TRUE
tert-Butylbenzene	20.07	20.00	100.35	80	120	TRUE
1,2,4-Trimethylbenzene	19.61	20.00	98.03	80	120	TRUE
sec-Butylbenzene	19.96	20.00	99.82	80	120	TRUE
1,3-Dichlorobenzene	19.48	20.00	97.41	73	127	TRUE
1,4-Dichlorobenzene	19.18	20.00	95.90	63	137	TRUE
p-Isopropyltoluene	20.08	20.00	100.39	80	130	TRUE
1,2-Dichlorobenzene	18.87	20.00	94.34	63	137	TRUE
n-Butylbenzene	20.41	20.00	102.05	80	130	TRUE
1,2-Dibromo-3-chloropropa	19.38	20.00	96.91	50	150	TRUE
1,2,4-Trichlorobenzene	20.55	20.00	102.74	50	150	TRUE
Naphthalene	19.39	20.00	96.94	40	150	TRUE
Hexachlorobutadiene	20.57	20.00	102.84	40	150	TRUE
1,2,3-Trichlorobenzene	19.64	20.00	98.19	60	140	TRUE

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181104.D
Acq On : 18 Mar 2011 8:57 am
Sample : 20 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:04 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

3/21/11

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	157055	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	276535	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	227866	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	106277	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	75103	19.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 76.00%	
39) Toluene-d8	14.11	98	265500	19.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 76.16%	
53) 4-Bromofluorobenzene	17.74	95	93796	18.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 75.12%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	142752	19.24 ug/L	98
3) Chloromethane	4.89	50	239859	19.55 ug/L	100
4) Vinyl chloride	5.18	62	217174	19.88 ug/L	100
5) Bromomethane	5.77	94	101214	17.87 ug/L	100
6) Chloroethane	5.98	64	111571	19.27 ug/L	98
7) Trichlorofluoromethane	6.78	101	126902	16.71 ug/L	98
8) Acetone	6.93	43	28819	31.46 ug/L	99
9) Iodomethane	7.57	142	72614	20.70 ug/L	95
10) 1,1-Dichloroethene	7.50	96	82093	18.53 ug/L	97
11) Methylene chloride	7.71	84	94356	18.11 ug/L	99
12) Freon 113	7.78	101	98039	18.69 ug/L	98
13) Carbon disulfide	8.02	76	295029	18.72 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	94225	19.23 ug/L	96
15) MTBE	8.73	73	147259	17.58 ug/L	100
16) 1,1-Dichloroethane	8.92	63	190004	18.58 ug/L	100
17) Vinyl acetate	9.08	43	139327	17.54 ug/L	100
18) 2-Butanone (MEK)	9.46	72	6021	24.56 ug/L	44
19) cis-1,2-Dichloroethene	9.66	96	92791	18.28 ug/L	98
20) Bromochloromethane	9.87	128	34867	18.77 ug/L	99
21) Chloroform	9.93	83	158181	18.75 ug/L	99
22) 2,2-Dichloropropane	10.03	77	136873	20.01 ug/L	98
24) 1,2-Dichloroethane	10.77	62	93902	18.24 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	119584	19.74 ug/L	98
27) 1,1-Dichloropropene	11.14	75	136911	19.34 ug/L	98
28) Carbon tetrachloride	11.38	117	98296	20.11 ug/L	100
29) Benzene	11.43	78	363998	19.23 ug/L	99
30) Dibromomethane	12.17	93	42873	19.15 ug/L	96
31) 1,2-Dichloropropane	12.21	63	98741	18.68 ug/L	99
32) Trichloroethene	12.26	95	90004	19.02 ug/L	98
33) Bromodichloromethane	12.32	83	105561	19.00 ug/L	96
34) 2-Chlorovinylethylether	12.85	63	20004	20.20 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	131213	19.46 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.30	43	50309	18.21 ug/L	97
37) trans-1,3-Dichloropropene	13.73	75	97604	18.75 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	45752	18.28 ug/L	98
40) Toluene	14.20	92	209288	19.45 ug/L	98
42) 1,3-Dichloropropane	14.26	76	97422	18.89 ug/L	100

(#) = qualifier out of range (m) = manual integration
03181104.D 031711.M Fri Mar 18 12:04:43 2011

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181104.D
Acq On : 18 Mar 2011 8:57 am
Sample : 20 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:04 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	39890	23.20 ug/L #	94
44) Dibromochloromethane	14.64	129	57602	18.58 ug/L	98
45) 1,2-Dibromoethane	14.97	107	48100	18.58 ug/L #	95
46) Tetrachloroethene	15.20	166	80678	19.74 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	64157	19.01 ug/L	98
48) Chlorobenzene	16.11	112	205029	19.15 ug/L	98
49) Ethylbenzene	16.37	91	395546	19.61 ug/L	99
50) m,p-Xylenes	16.64	106	139874	19.79 ug/L	98
51) Styrene	17.08	104	212992	19.87 ug/L	99
52) o-Xylene	17.19	106	130400	18.98 ug/L	99
55) Bromoform	16.81	173	30036	19.52 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	58407	18.77 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	12391	18.30 ug/L	95
58) Isopropylbenzene	17.68	105	326744	20.08 ug/L	100
59) Bromobenzene	18.05	156	74132	19.74 ug/L	98
60) n-Propylbenzene	18.30	91	466596	20.08 ug/L	100
61) 2-Chlorotoluene	18.44	91	265078	19.48 ug/L	99
62) 4-Chlorotoluene	18.55	91	263901	19.56 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	277370	19.72 ug/L	98
64) tert-Butylbenzene	19.09	119	240291	20.07 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	277139	19.61 ug/L	99
66) sec-Butylbenzene	19.37	105	409665	19.96 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	149039	19.48 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	147736	19.18 ug/L	100
69) p-Isopropyltoluene	19.60	119	314903	20.08 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	125550	18.87 ug/L	99
71) n-Butylbenzene	20.11	91	356319	20.41 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	8037	19.38 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	88303	20.55 ug/L	97
74) Naphthalene	22.62	128	110494	19.39 ug/L	100
75) Hexachlorobutadiene	22.68	225	56455	20.57 ug/L	99
76) 1,2,3-Trichlorobenzene	22.89	180	68806	19.64 ug/L	100

(#) = qualifier out of range (m) = manual integration
03181104.D 031711.M Fri Mar 18 12:04:44 2011

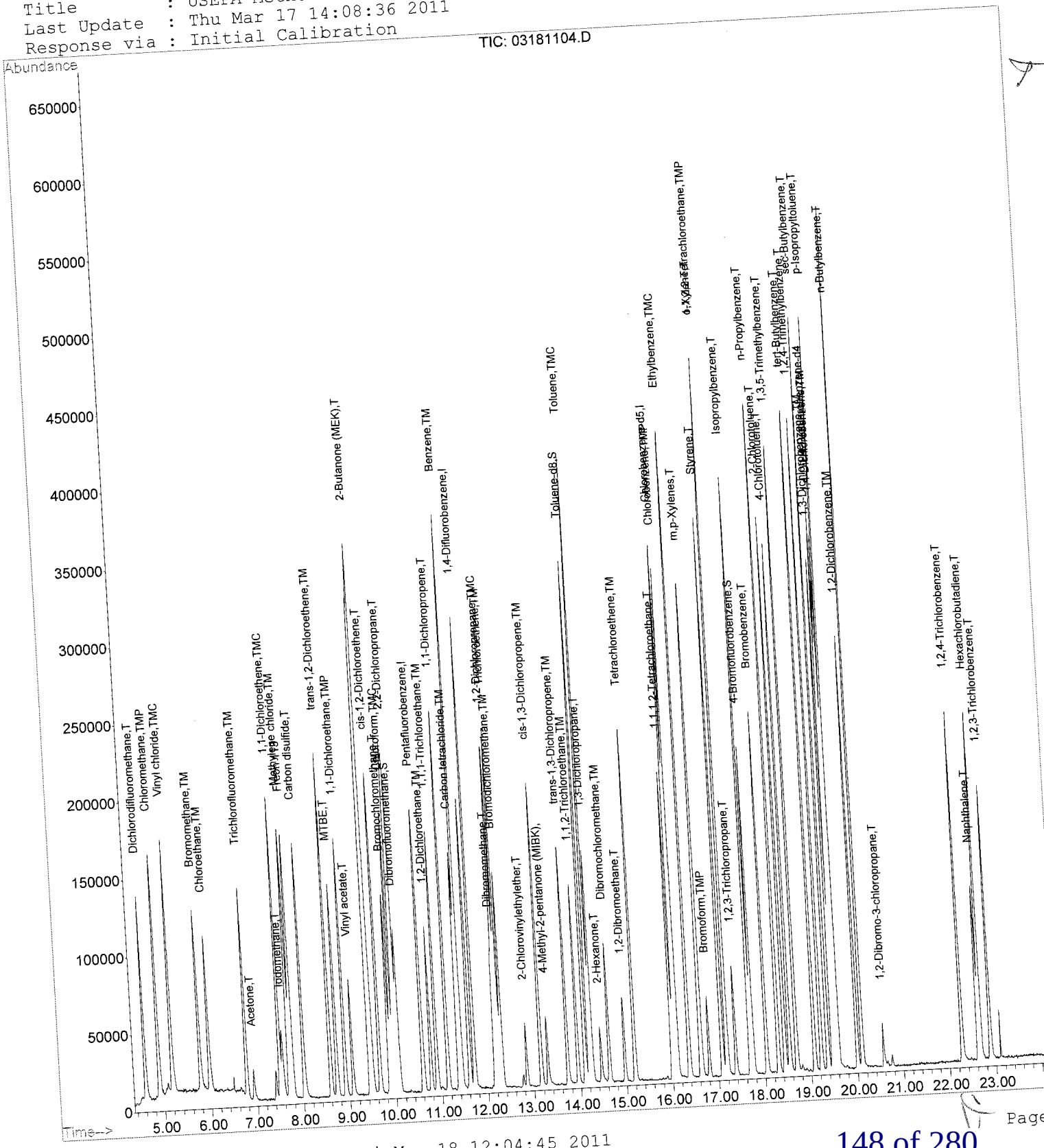
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181104.D
Acq On : 18 Mar 2011 8:57 am
Sample : 20 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:04 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03181104.D 031711.M Fri Mar 18 12:04:45 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181105.D
Acq On : 18 Mar 2011 9:28 am
Sample : -BS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	182246	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	312595	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	260286	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	121474	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	97638	21.29 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.16%	
39) Toluene-d8	14.11	98	344883	21.88 ug/L	0.00
Spiked Amount 25.000			Recovery	= 87.52%	
53) 4-Bromofluorobenzene	17.75	95	121059	21.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 84.88%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	182948	21.25 ug/L	97
3) Chloromethane	4.89	50	314246	22.08 ug/L	99
4) Vinyl chloride	5.18	62	280737	22.15 ug/L	99
5) Bromomethane	5.78	94	135984	20.65 ug/L	99
6) Chloroethane	5.98	64	142496	21.21 ug/L	98
7) Trichlorofluoromethane	6.77	101	172056	19.53 ug/L	98
8) Acetone	6.93	43	31094	28.97 ug/L	99
9) Iodomethane	7.57	142	100662	24.71 ug/L	98
10) 1,1-Dichloroethene	7.51	96	105539	20.53 ug/L	99
11) Methylene chloride	7.71	84	123339	20.40 ug/L	97
12) Freon 113	7.77	101	123416	20.28 ug/L	99
13) Carbon disulfide	8.02	76	442180	24.18 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	118570	20.85 ug/L	99
15) MTBE	8.73	73	188026	19.35 ug/L	100
16) 1,1-Dichloroethane	8.92	63	239379	20.18 ug/L	99
17) Vinyl acetate	9.08	43	235500	25.56 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6862	24.13 ug/L	65
19) cis-1,2-Dichloroethene	9.65	96	117987	20.03 ug/L	98
20) Bromochloromethane	9.86	128	44531	20.66 ug/L	93
21) Chloroform	9.92	83	194653	19.88 ug/L	100
22) 2,2-Dichloropropane	10.03	77	169158	21.31 ug/L	99
24) 1,2-Dichloroethane	10.77	62	120404	20.15 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	148836	21.17 ug/L	99
27) 1,1-Dichloropropene	11.14	75	174100	21.76 ug/L	99
28) Carbon tetrachloride	11.39	117	122228	22.12 ug/L	99
29) Benzene	11.44	78	438739	20.51 ug/L	99
30) Dibromomethane	12.16	93	53588	21.17 ug/L	99
31) 1,2-Dichloropropane	12.20	63	127359	21.31 ug/L	99
32) Trichloroethene	12.26	95	113932	21.30 ug/L	99
33) Bromodichloromethane	12.32	83	137464	21.89 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	31470	28.71 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	166307	21.82 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	73932	23.68 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	134449	22.85 ug/L	100
38) 1,1,2-Trichloroethane	13.94	83	60857	21.51 ug/L	99
40) Toluene	14.21	92	262154	21.55 ug/L	98
42) 1,3-Dichloropropane	14.27	76	125581	21.32 ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181105.D
Acq On : 18 Mar 2011 9:28 am
Sample : -BS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	50927	25.93 ug/L #	96
44) Dibromochloromethane	14.64	129	76883	21.71 ug/L	99
45) 1,2-Dibromoethane	14.98	107	65244	22.07 ug/L	99
46) Tetrachloroethene	15.20	166	101494	21.74 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	83912	21.77 ug/L	98
48) Chlorobenzene	16.12	112	264705	21.64 ug/L	100
49) Ethylbenzene	16.37	91	504751	21.90 ug/L	99
50) m,p-Xylenes	16.63	106	174150	21.57 ug/L	99
51) Styrene	17.09	104	278172	22.72 ug/L	99
52) o-Xylene	17.19	106	168060	21.42 ug/L	97
55) Bromoform	16.81	173	39843	22.65 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.18	83	80936	22.76 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	18587	24.02 ug/L	99
58) Isopropylbenzene	17.69	105	459105	24.68 ug/L	99
59) Bromobenzene	18.04	156	98916	23.05 ug/L	100
60) n-Propylbenzene	18.30	91	622654	23.45 ug/L	100
61) 2-Chlorotoluene	18.44	91	339207	21.80 ug/L	100
62) 4-Chlorotoluene	18.54	91	353005	22.89 ug/L	98
63) 1,3,5-Trimethylbenzene	18.69	105	372674	23.19 ug/L	100
64) tert-Butylbenzene	19.08	119	307984	22.51 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	376349	23.29 ug/L	100
66) sec-Butylbenzene	19.38	105	525907	22.42 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	194463	22.24 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	195820	22.24 ug/L	98
69) p-Isopropyltoluene	19.60	119	411186	22.94 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	167002	21.96 ug/L	99
71) n-Butylbenzene	20.11	91	462490	23.18 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	11249	23.73 ug/L	94
73) 1,2,4-Trichlorobenzene	22.27	180	118367	24.10 ug/L	100
74) Naphthalene	22.62	128	150647	23.13 ug/L	100
75) Hexachlorobutadiene	22.68	225	74201	23.65 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	93730	23.40 ug/L	98

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

Quantitation Report

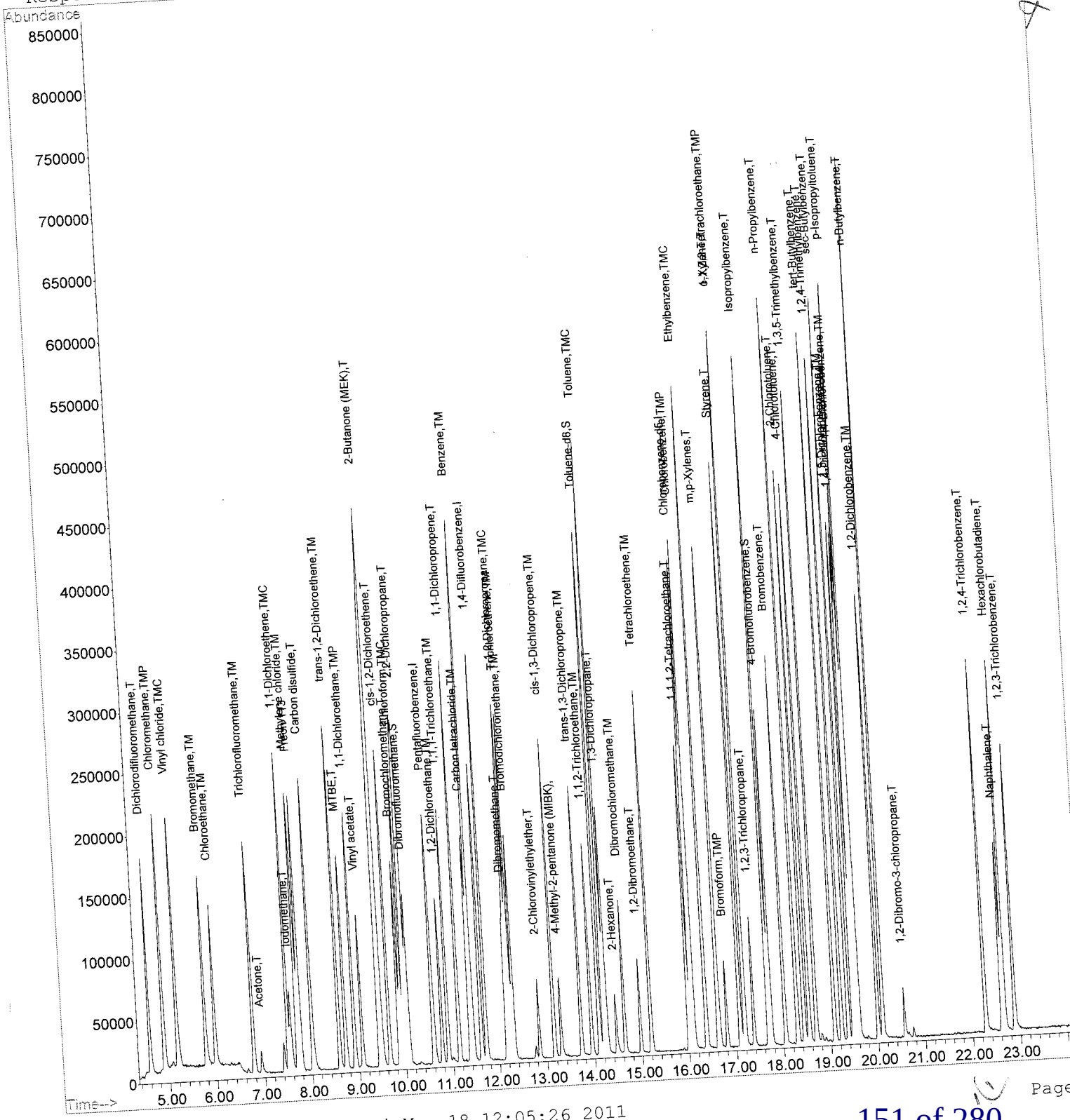
Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181105.D
Acq On : 18 Mar 2011 9:28 am
Sample : -BS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

TIC: 03181105.D



03181105.D 031711.M Fri Mar 18 12:05:26 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181106.D Vial: 13
Acq On : 18 Mar 2011 9:58 am Operator: LC
Sample : -BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 18 12:05 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.59	168	175804	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.72	114	306741	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	252270	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	117522	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	96696	21.86 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.44%	
39) Toluene-d8	14.11	98	334399	21.62 ug/L	-0.01
Spiked Amount 25.000			Recovery =	86.48%	
53) 4-Bromofluorobenzene	17.75	95	118487	21.43 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.72%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	180997	21.79 ug/L	98
3) Chloromethane	4.89	50	318533	23.20 ug/L	98
4) Vinyl chloride	5.18	62	274420	22.45 ug/L	100
5) Bromomethane	5.77	94	141075	22.19 ug/L	97
6) Chloroethane	5.98	64	144438	22.28 ug/L	98
7) Trichlorofluoromethane	6.77	101	207424	24.40 ug/L	96 R7
8) Acetone	6.93	43	31757	30.90 ug/L	99
9) Iodomethane	7.57	142	113288	28.80 ug/L	98
10) 1,1-Dichloroethene	7.51	96	108122	21.81 ug/L	97
11) Methylene chloride	7.70	84	121648	20.85 ug/L	97
12) Freon 113	7.77	101	122012	20.78 ug/L	98
13) Carbon disulfide	8.02	76	438717	24.87 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	120249	21.92 ug/L	98
15) MTBE	8.73	73	189019	20.16 ug/L	99
16) 1,1-Dichloroethane	8.91	63	245777	21.47 ug/L	99
17) Vinyl acetate	9.07	43	228970	25.76 ug/L	100
18) 2-Butanone (MEK)	9.46	72	6704	24.43 ug/L	65
19) cis-1,2-Dichloroethene	9.65	96	114286	20.12 ug/L	98
20) Bromochloromethane	9.87	128	44372	21.34 ug/L	94
21) Chloroform	9.92	83	196139	20.77 ug/L	99
22) 2,2-Dichloropropane	10.03	77	164872	21.53 ug/L	98
24) 1,2-Dichloroethane	10.77	62	120017	20.82 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	147857	21.80 ug/L	99
27) 1,1-Dichloropropene	11.14	75	173644	22.11 ug/L	99
28) Carbon tetrachloride	11.38	117	123105	22.71 ug/L	99
29) Benzene	11.44	78	443552	21.13 ug/L	99
30) Dibromomethane	12.16	93	53816	21.67 ug/L	98
31) 1,2-Dichloropropane	12.21	63	126500	21.57 ug/L	100
32) Trichloroethene	12.26	95	112981	21.52 ug/L	99
33) Bromodichloromethane	12.32	83	130685	21.21 ug/L	98
34) 2-Chlorovinylethylether	12.85	63	37137	34.83 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	163208	21.82 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	71123	23.21 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	128270	22.22 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	59287	21.36 ug/L	99
40) Toluene	14.21	92	265245	22.22 ug/L	99
42) 1,3-Dichloropropane	14.27	76	121210	21.23 ug/L	97

(#) = qualifier out of range (m) = manual integration
03181106.D 031711.M Fri Mar 18 12:06:02 2011

LC 03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181106.D
Acq On : 18 Mar 2011 9:58 am
Sample : -BSD1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:05 2011

Vial: 13
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

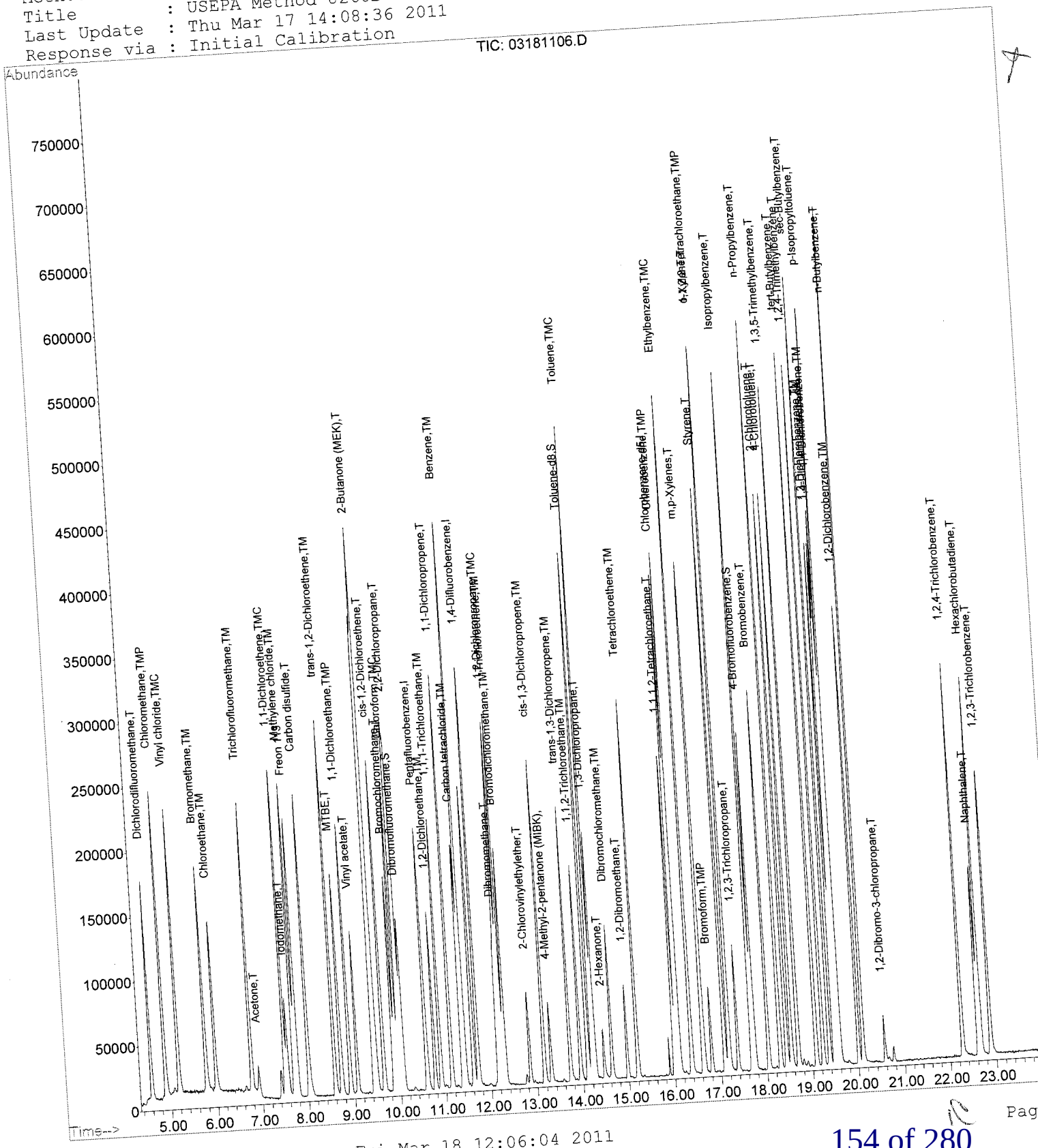
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	43474	22.84 ug/L #	99
44) Dibromochloromethane	14.64	129	75269	21.93 ug/L	100
45) 1,2-Dibromoethane	14.98	107	62868	21.94 ug/L	100
46) Tetrachloroethene	15.20	166	100471	22.21 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	80680	21.60 ug/L	98
48) Chlorobenzene	16.12	112	257066	21.68 ug/L	100
49) Ethylbenzene	16.37	91	488012	21.85 ug/L	100
50) m,p-Xylenes	16.63	106	172861	22.09 ug/L	99
51) Styrene	17.09	104	267379	22.53 ug/L	99
52) o-Xylene	17.19	106	161099	21.18 ug/L	98
55) Bromoform	16.81	173	37612	22.10 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.17	83	74403	21.62 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	16478	22.01 ug/L	95
58) Isopropylbenzene	17.69	105	449329	24.97 ug/L	100
59) Bromobenzene	18.04	156	94783	22.83 ug/L	100
60) n-Propylbenzene	18.30	91	600401	23.37 ug/L	100
61) 2-Chlorotoluene	18.44	91	330443	21.95 ug/L	99
62) 4-Chlorotoluene	18.54	91	337065	22.59 ug/L	99
63) 1,3,5-Trimethylbenzene	18.69	105	354260	22.78 ug/L	99
64) tert-Butylbenzene	19.08	119	296080	22.36 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	362793	23.21 ug/L	100
66) sec-Butylbenzene	19.37	105	515360	22.71 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	188143	22.24 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	187866	22.06 ug/L	99
69) p-Isopropyltoluene	19.61	119	401057	23.12 ug/L	100
70) 1,2-Dichlorobenzene	20.00	146	161564	21.96 ug/L	99
71) n-Butylbenzene	20.11	91	449063	23.26 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	10233	22.32 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	116766	24.57 ug/L	98
74) Naphthalene	22.62	128	147814	23.45 ug/L	100
75) Hexachlorobutadiene	22.67	225	71796	23.66 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	92276	23.82 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181106.D Vial: 13
Acq On : 18 Mar 2011 9:58 am Operator: LC
Sample : -BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 18 12:05 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03181106.D 031711.M Fri Mar 18 12:06:04 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181107.D
Acq On : 18 Mar 2011 10:29 am
Sample : -BLK1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:06 2011

Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	181068	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	320896	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	263768	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	119729	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	97358	21.37 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.48%	
39) Toluene-d8	14.11	98	346709	21.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.68%	
53) 4-Bromofluorobenzene	17.74	95	119348	20.64 ug/L	0.00
Spiked Amount 25.000			Recovery	= 82.56%	
Target Compounds					Qvalue
5) Bromomethane	5.71	94	166	0.28 ug/L	NDSM 92
8) Acetone	6.93	43	1482	Below Cal	#LRC/NT 65
9) Iodomethane	7.58	142	159	0.17 ug/L	#NDSM 32
42) 1,3-Dichloropropane	14.11	76	3902	0.65 ug/L	#NDRT 68
73) 1,2,4-Trichlorobenzene	22.28	180	828	0.17 ug/L	LRC/NT 82
74) Naphthalene	22.63	128	8346	1.30 ug/L	100 J
76) 1,2,3-Trichlorobenzene	22.90	180	793	0.20 ug/L #	56

LC 03/21/11

(#) = qualifier out of range (m) = manual integration
03181107.D 031711.M Fri Mar 18 12:06:26 2011

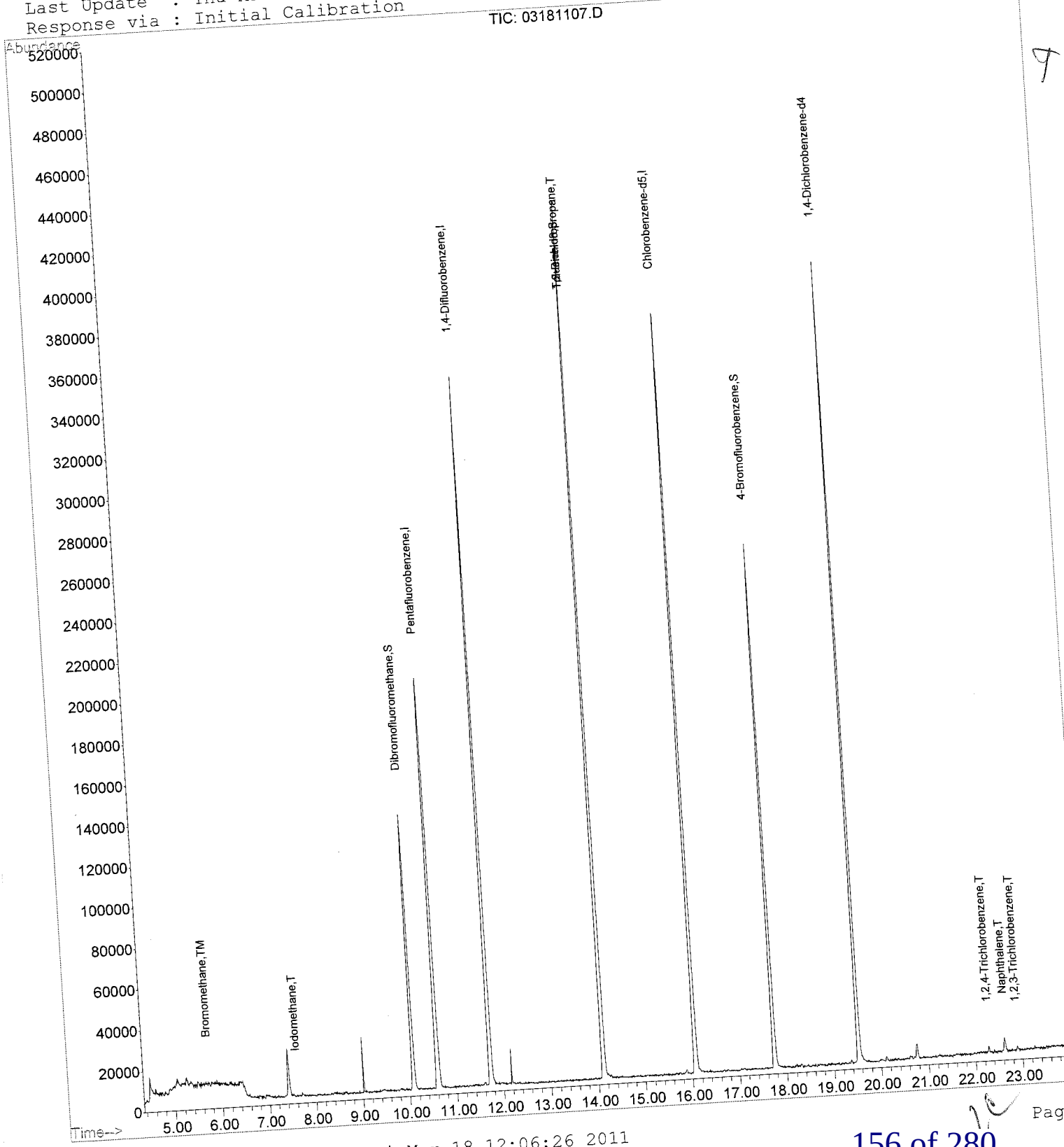
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181107.D
Acq On : 18 Mar 2011 10:29 am
Sample : -BLK1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 12:06 2011

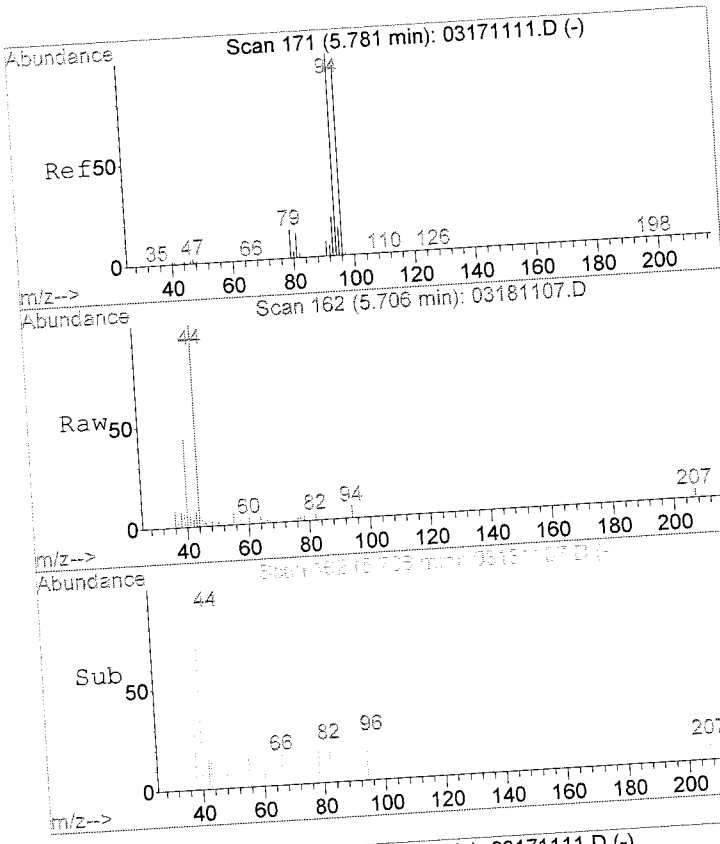
Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



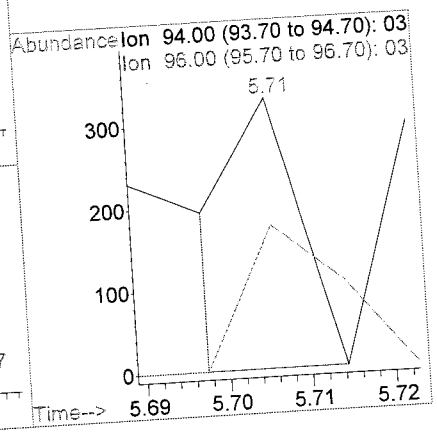
03181107.D 031711.M Fri Mar 18 12:06:26 2011

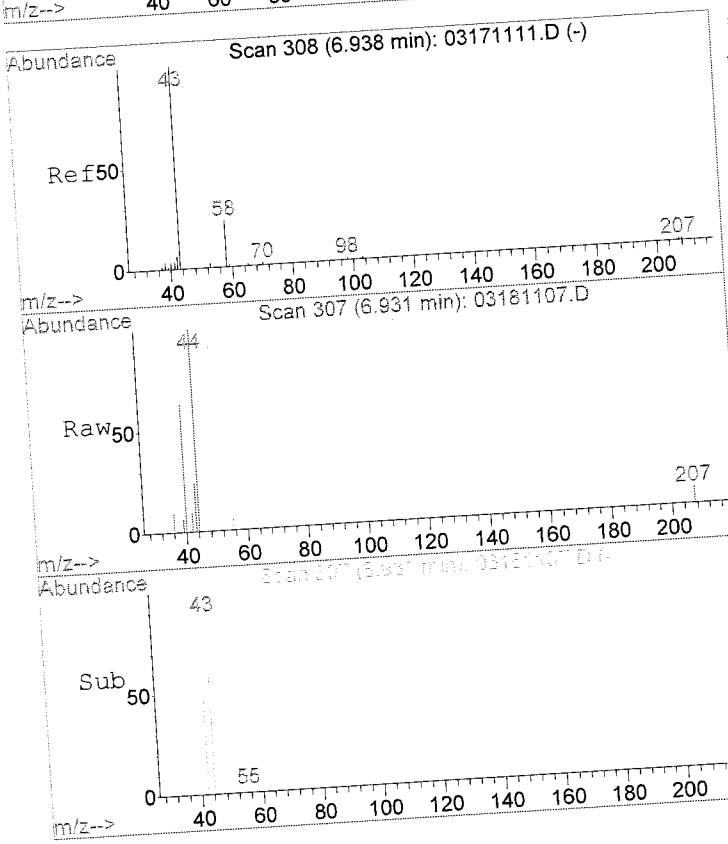


#5
Bromomethane
Concen: 0.28 ug/L
RT: 5.71 min Scan# 162
Delta R.T. -0.07 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion: 94 Resp: 166

Ion	Ratio	Lower	Upper
94	100		
96	84.9	74.0	111.0

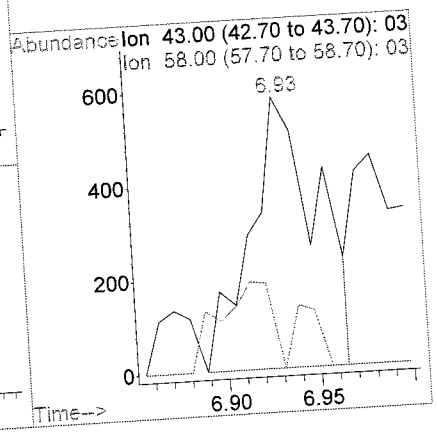


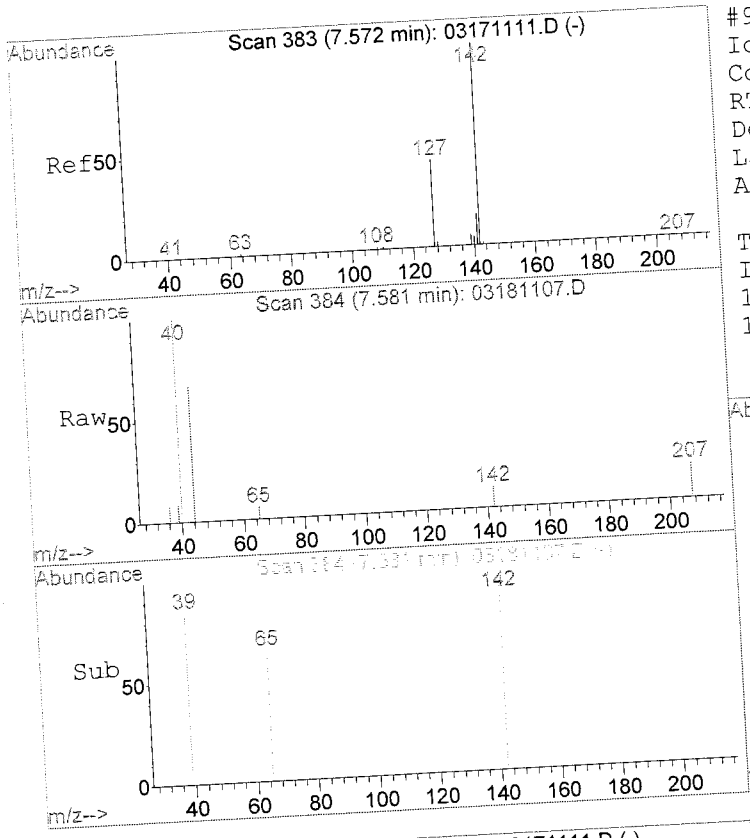


#8
Acetone
Concen: Below Cal
RT: 6.93 min Scan# 307
Delta R.T. -0.01 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion: 43 Resp: 1482

Ion	Ratio	Lower	Upper
43	100		
58	8.7	21.2	31.8#

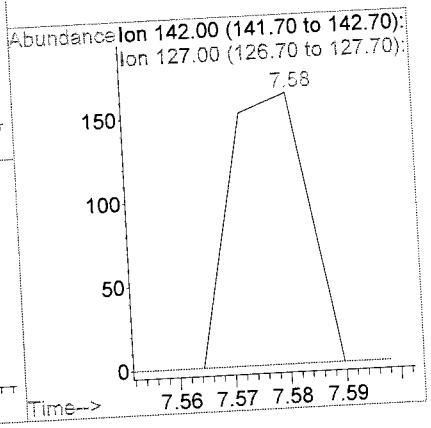


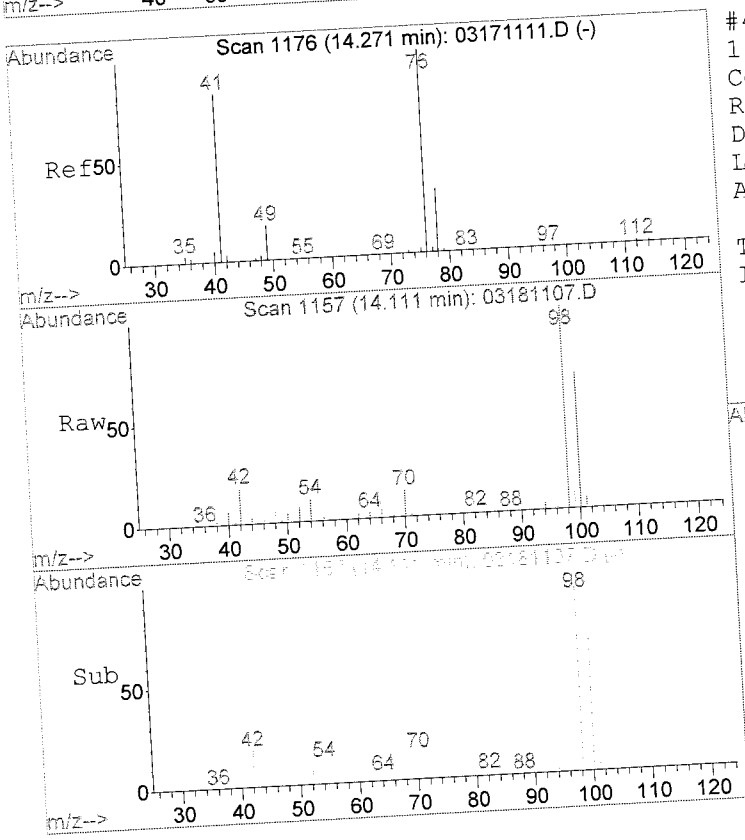


#9
Iodomethane
Concen: 0.17 ug/L
RT: 7.58 min Scan# 384
Delta R.T. 0.01 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:142 Resp: 159

Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.5	53.3#

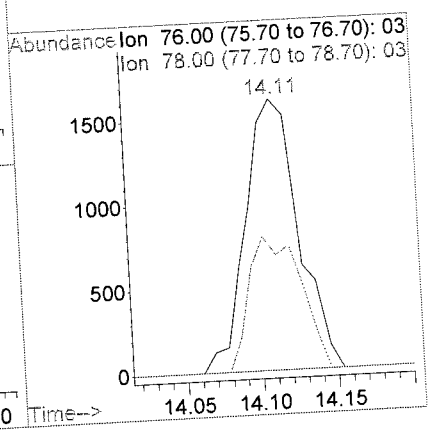


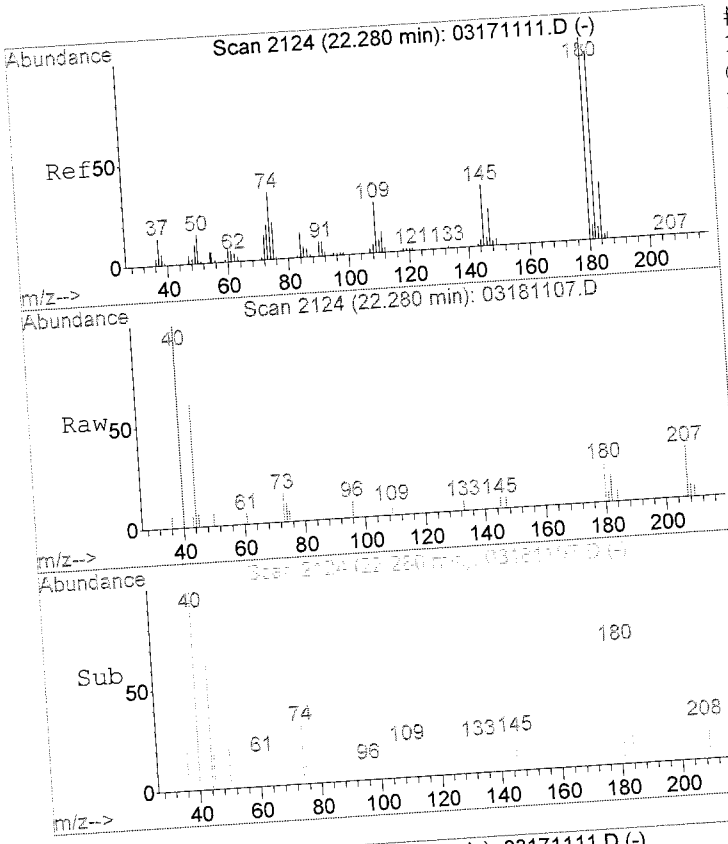


#42
1,3-Dichloropropane
Concen: 0.65 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. -0.16 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion: 76 Resp: 3902

Ion	Ratio	Lower	Upper
76	100		
78	48.5	24.6	37.0#

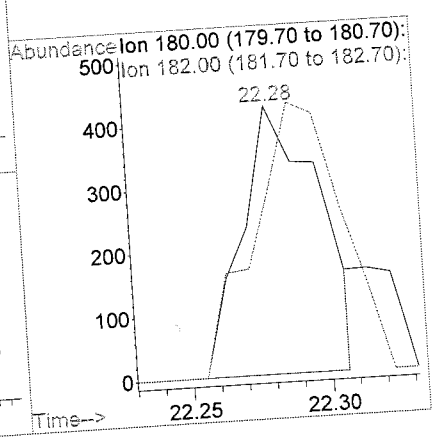


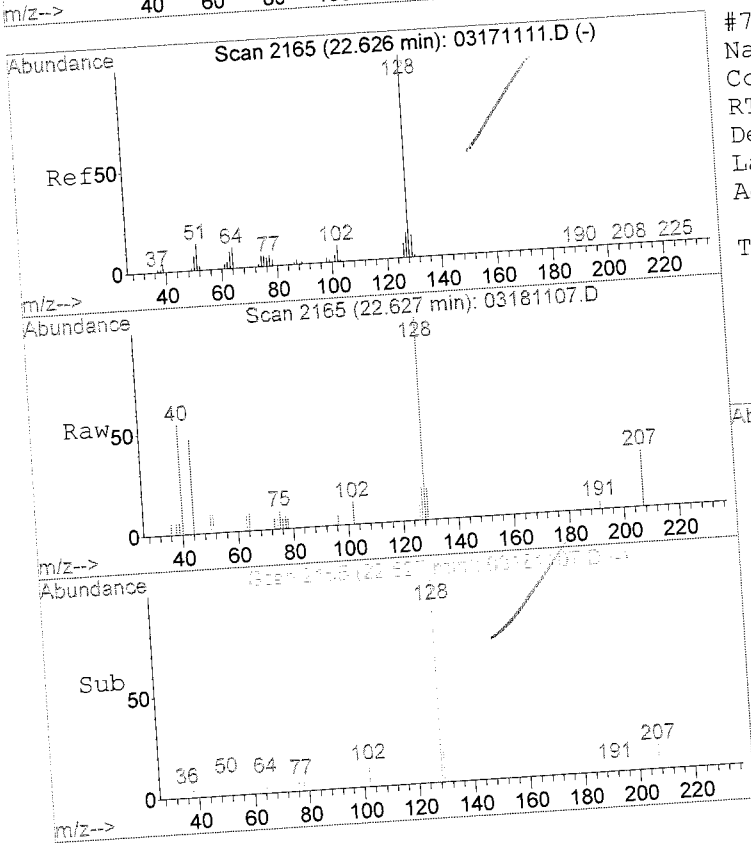


#73
1,2,4-Trichlorobenzene
Concen: 0.17 ug/L
RT: 22.28 min Scan# 2124
Delta R.T. 0.00 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:180 Resp: 828

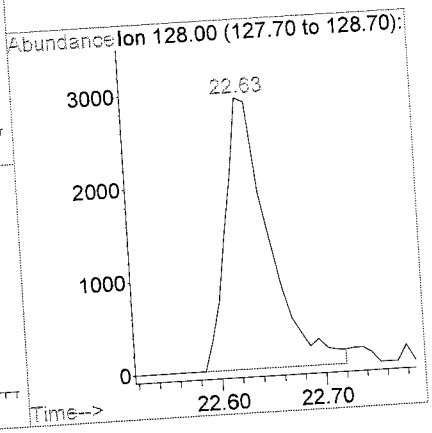
Ion	Ratio	Lower	Upper
180	100		
182	113.4	76.5	114.7

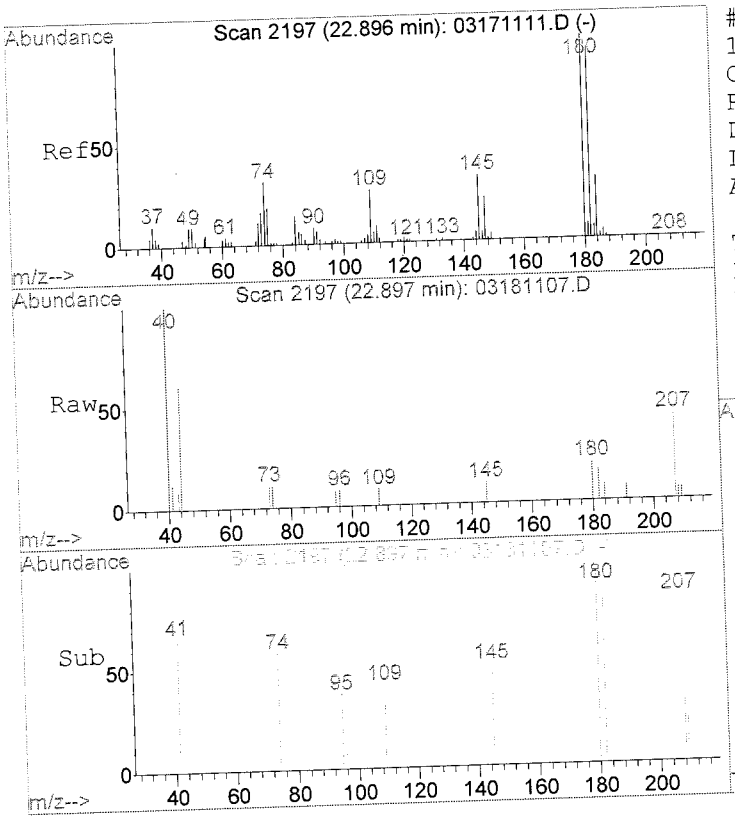




#74
Naphthalene
Concen: 1.30 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:128 Resp: 8346

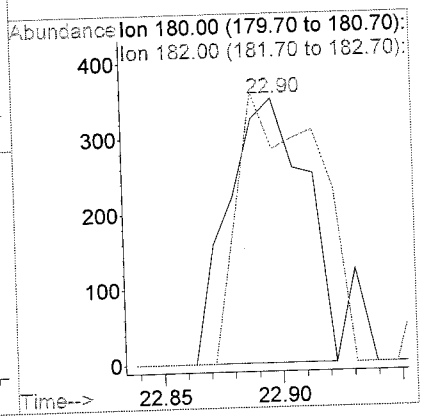




#76
1,2,3-Trichlorobenzene
Concen: 0.20 ug/L
RT: 22.90 min Scan# 2197
Delta R.T. 0.00 min
Lab File: 03181107.D
Acq: 18 Mar 2011 10:29 am

Tgt Ion:180 Resp: 793

Ion	Ratio	Lower	Upper
180	100		
182	52.5	76.1	114.1#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181110.D
Acq On : 18 Mar 2011 12:01 pm
Sample : PUC0827-02
Misc : SOURCE
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	173163	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	306651	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	264627	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	119070	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	96676	22.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.76%	
39) Toluene-d8	14.11	98	343395	22.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.80%	
53) 4-Bromofluorobenzene	17.75	95	123364	21.27 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.08%	

Target Compounds					Qvalue
5) Bromomethane	5.73	94	199	0.29 ug/L DSM	92
8) Acetone	6.94	43	3295	Below Cal LRL/NT	93
15) MTBE	8.73	73	847	0.09 ug/L #	86
21) Chloroform	9.92	83	11200	1.20 ug/L	99
24) 1,2-Dichloroethane	10.59	62	787	0.14 ug/L #NORT	1
32) Trichloroethene	12.26	95	2110	0.40 ug/L LRL/NT	96
42) 1,3-Dichloropropane	14.11	76	3460	0.58 ug/L #NORT	51
43) 2-Hexanone	14.44	43	187	0.09 ug/L #LRL/NT	29
46) Tetrachloroethene	15.20	166	8950	1.89 ug/L	99

LC 03/21/11

(#) = qualifier out of range (m) = manual integration
03181110.D 031711.M Fri Mar 18 13:00:47 2011

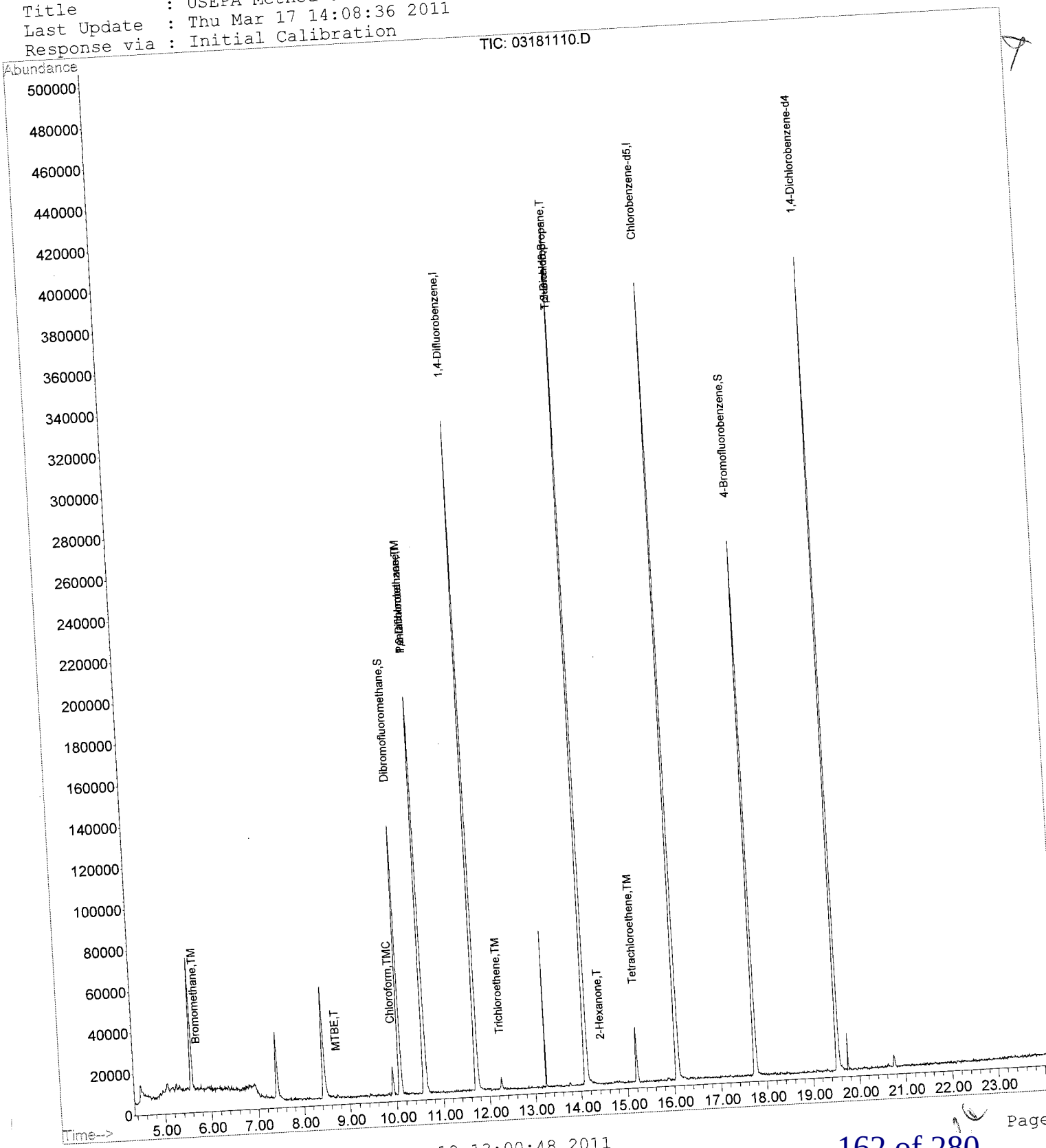
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181110.D
Acq On : 18 Mar 2011 12:01 pm
Sample : PUC0827-02
Misc : SOURCE
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011

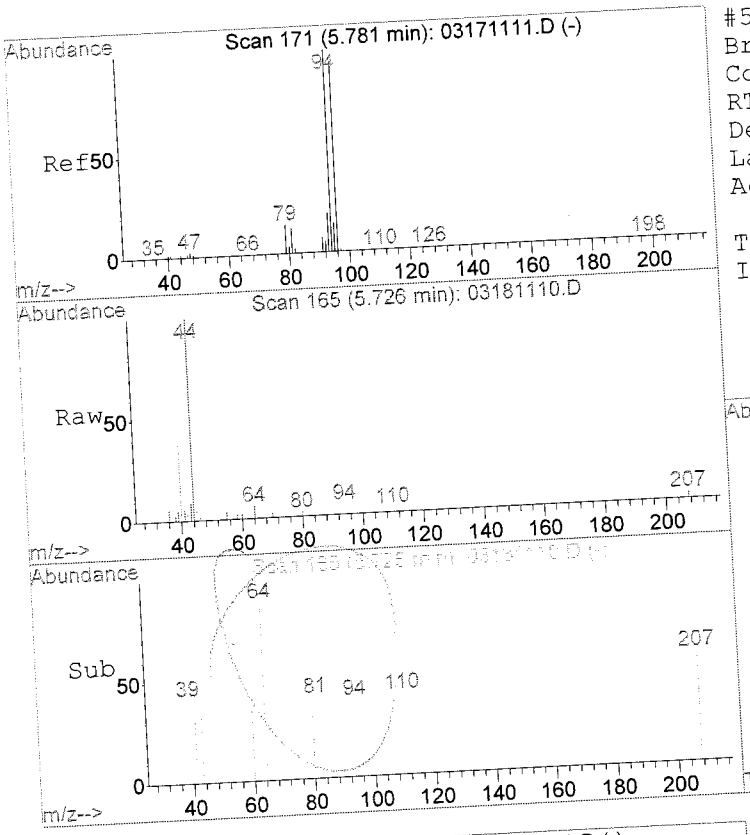
Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



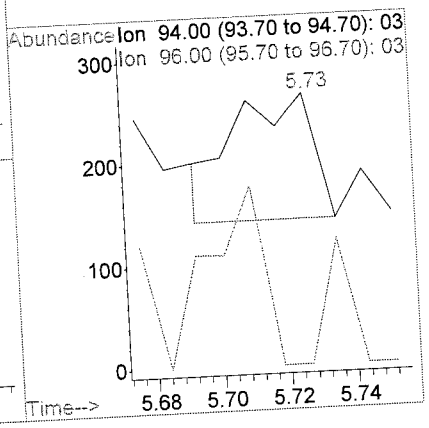
03181110.D 031711.M Fri Mar 18 13:00:48 2011

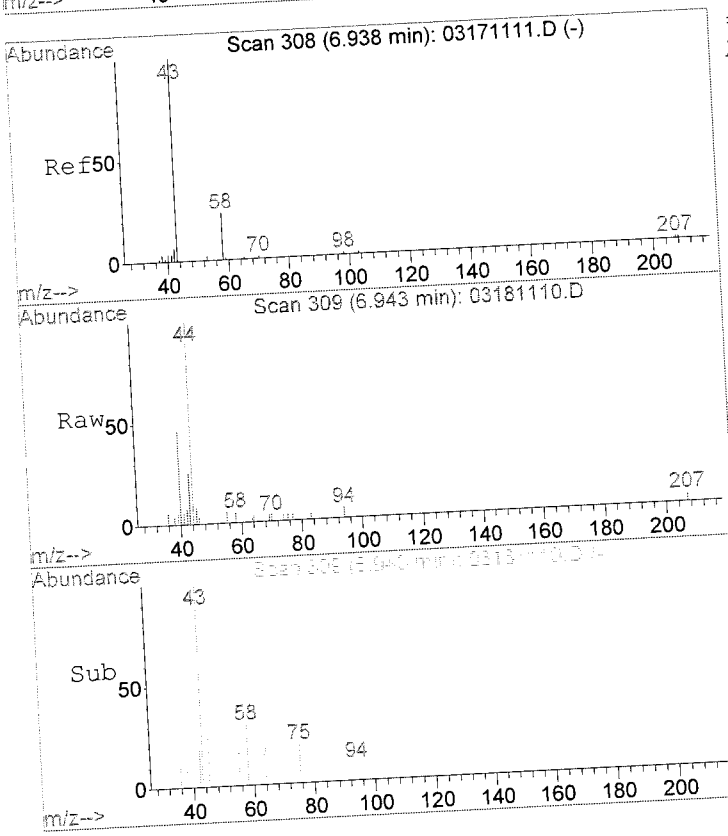


#5
Bromomethane
Concen: 0.29 ug/L
RT: 5.73 min Scan# 165
Delta R.T. -0.05 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 94 Resp: 199

Ion	Ratio	Lower	Upper
94	100		
96	100.5	74.0	111.0

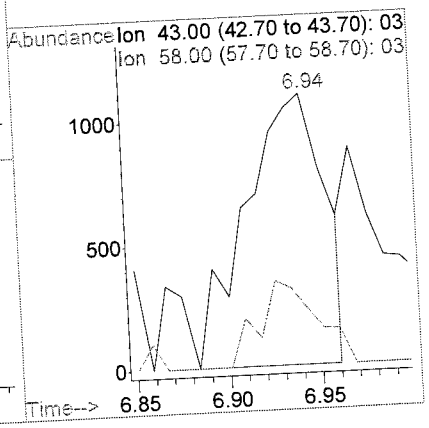


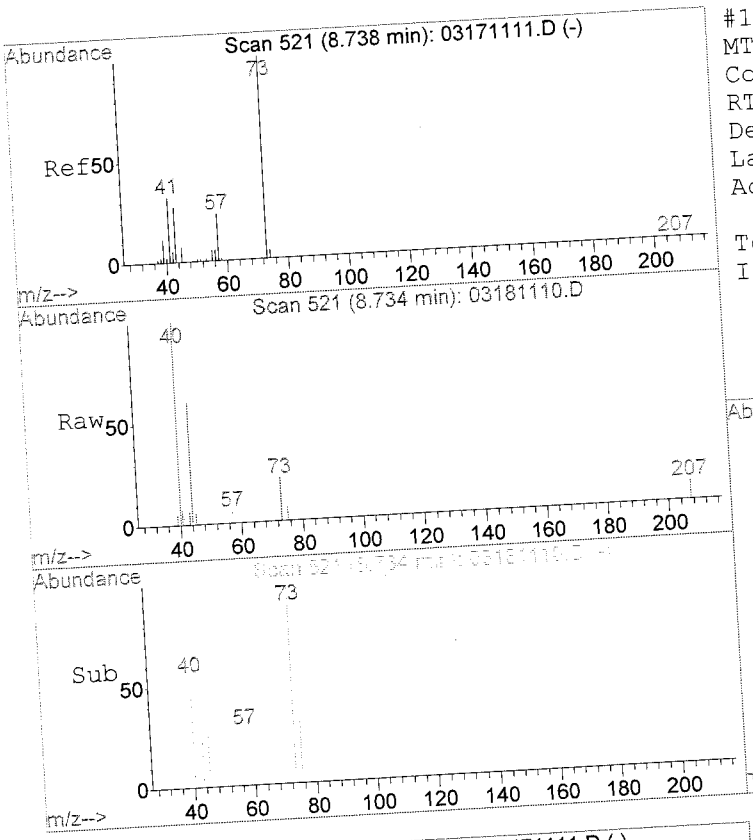


#8
Acetone
Concen: Below Cal
RT: 6.94 min Scan# 309
Delta R.T. 0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 43 Resp: 3295

Ion	Ratio	Lower	Upper
43	100		
58	22.9	21.2	31.8

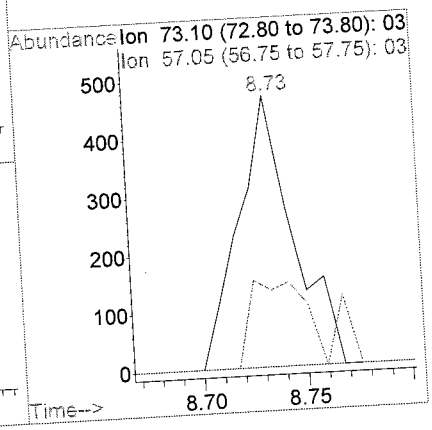


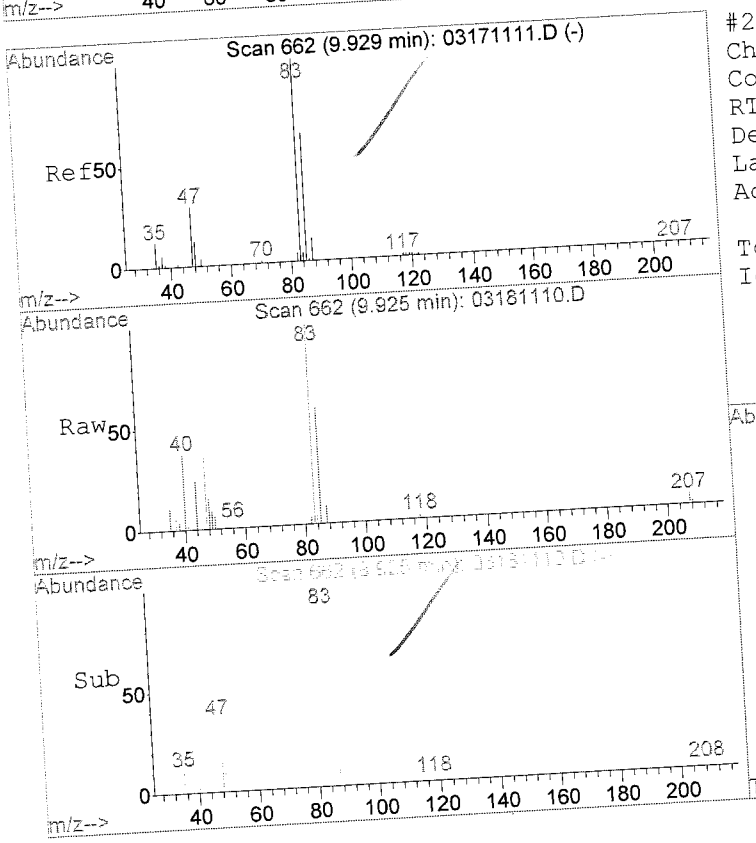


#15
MTBE
Concen: 0.09 ug/L
RT: 8.73 min Scan# 521
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 73 Resp: 847

Ion	Ratio	Lower	Upper
73	100		
57	31.9	20.0	30.0#

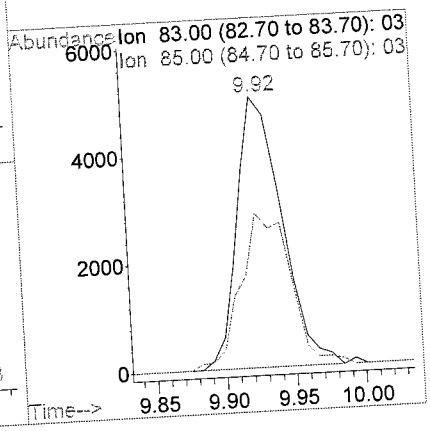


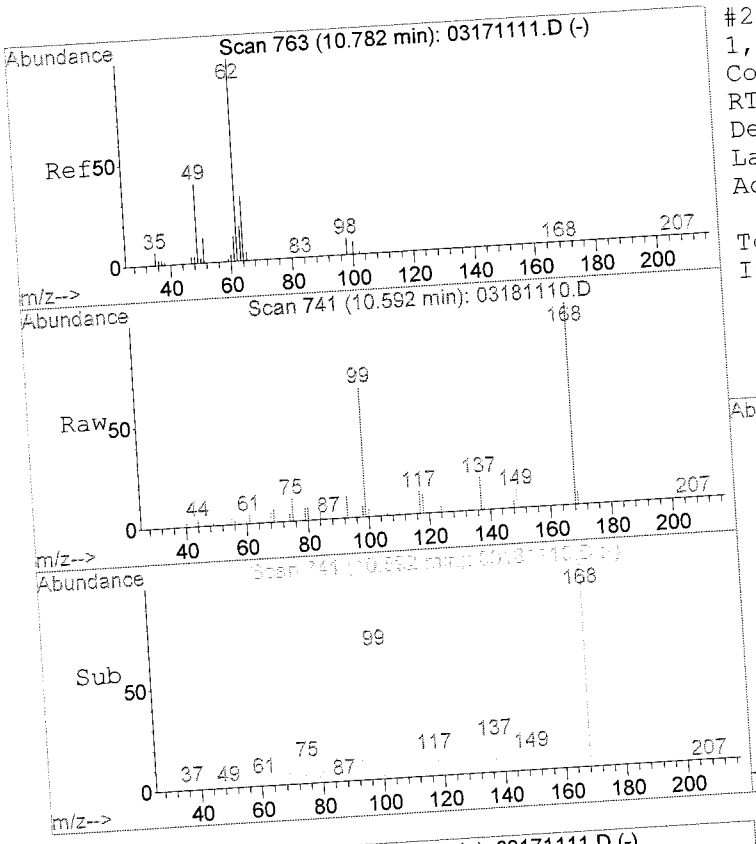


#21
Chloroform
Concen: 1.20 ug/L
RT: 9.92 min Scan# 662
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 83 Resp: 11200

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.6	77.4



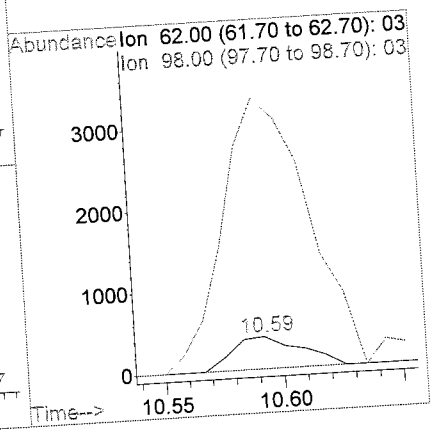


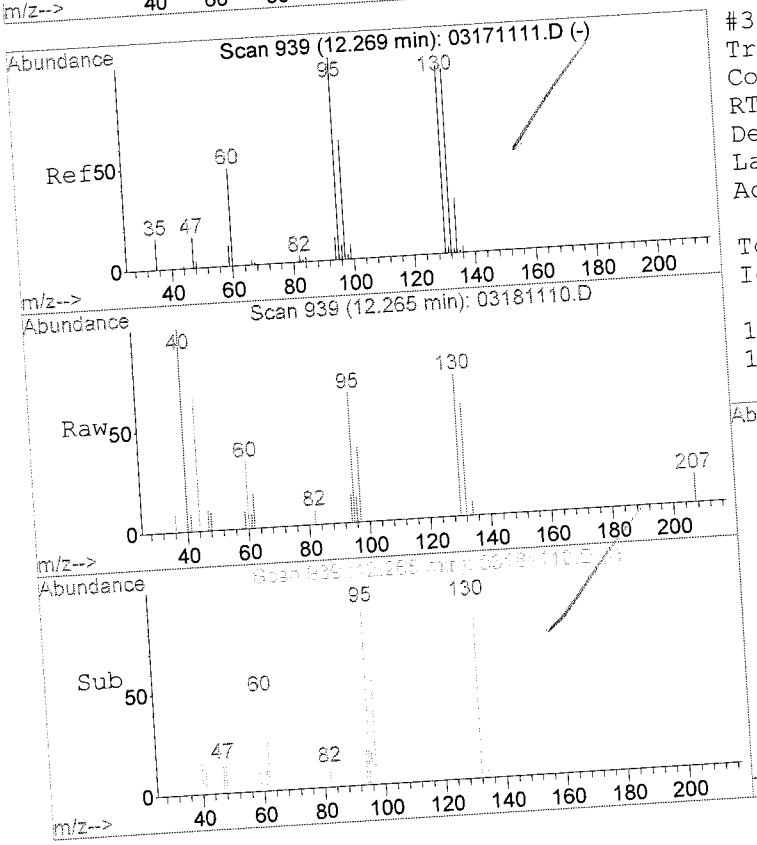
#24
1,2-Dichloroethane
Concen: 0.14 ug/L
RT: 10.59 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 62 Resp: 787

Ion	Ratio	Lower	Upper
62	100		
98	1050.8	7.0	10.6#

WRT

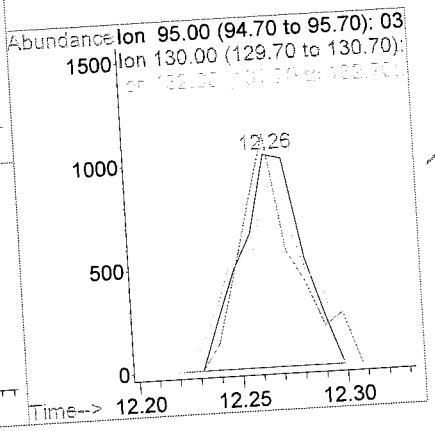


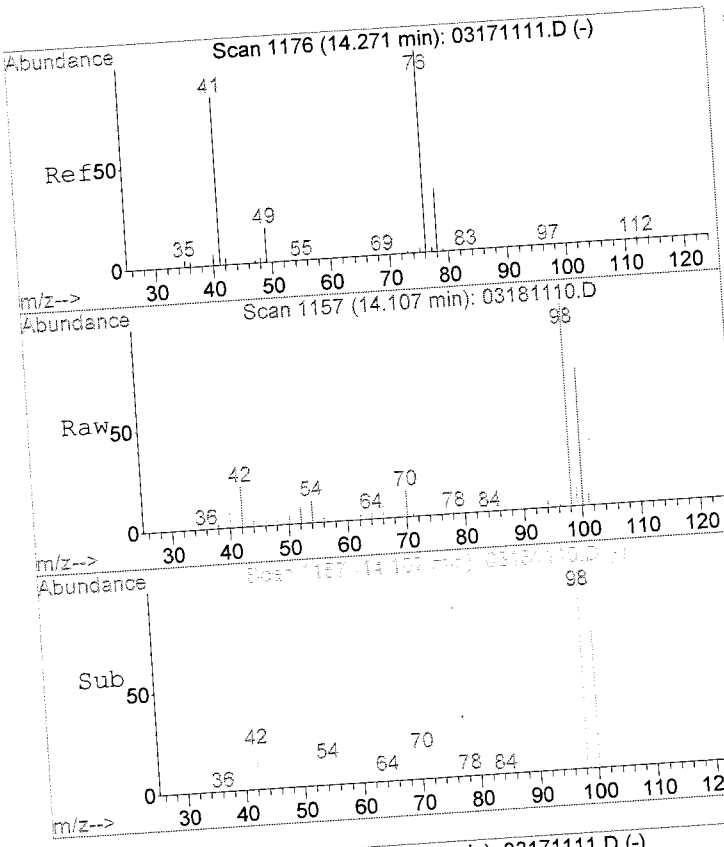


#32
Trichloroethene
Concen: 0.40 ug/L
RT: 12.26 min Scan# 939
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 95 Resp: 2110

Ion	Ratio	Lower	Upper
95	100		
130	94.0	74.2	111.4
132	95.0	70.8	106.2

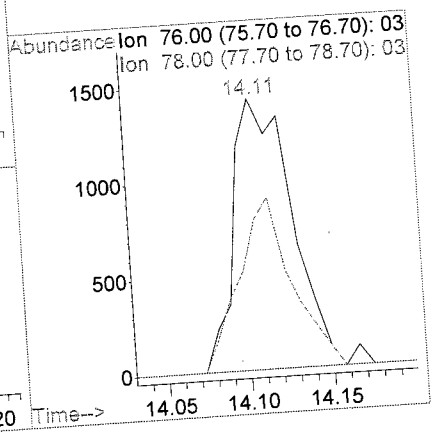


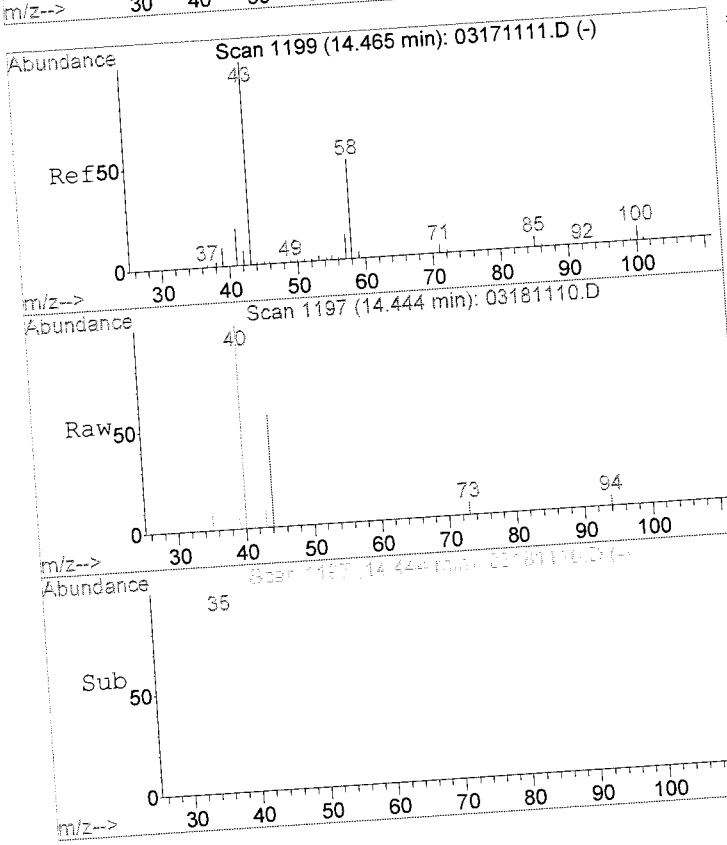


#42
1,3-Dichloropropane
Concen: 0.58 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. -0.16 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 76 Resp: 3460

Ion	Ratio	Lower	Upper
76	100		
78	57.7	24.6	37.0#

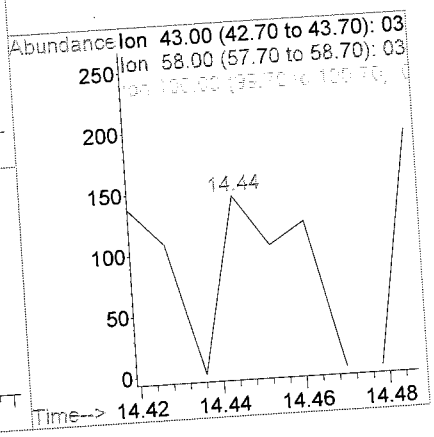


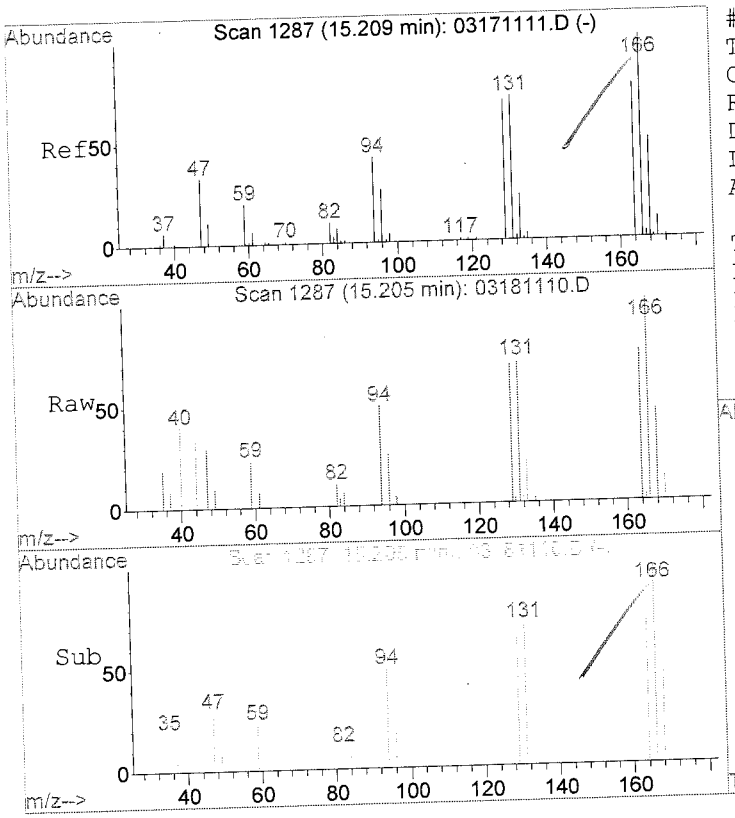


#43
2-Hexanone
Concen: 0.09 ug/L
RT: 14.44 min Scan# 1197
Delta R.T. -0.02 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion: 43 Resp: 187

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.4#
100	0.0	0.0	0.0

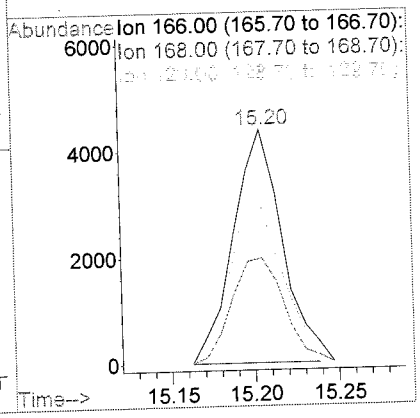




#46
Tetrachloroethene
Concen: 1.89 ug/L
RT: 15.20 min Scan# 1287
Delta R.T. -0.00 min
Lab File: 03181110.D
Acq: 18 Mar 2011 12:01 pm

Tgt Ion:166 Resp: 8950

Ion	Ratio	Lower	Upper
166	100		
168	48.3	37.9	56.9
129	75.0	59.8	89.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181111.D
Acq On : 18 Mar 2011 12:32 pm
Sample : -MS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	175360	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	309722	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	259868	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	120935	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	97936	22.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.80%	
39) Toluene-d8	14.11	98	340219	21.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 87.12%	
53) 4-Bromofluorobenzene	17.75	95	122265	21.47 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.88%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	187975	22.69 ug/L	98
3) Chloromethane	4.90	50	301362	22.00 ug/L	98
4) Vinyl chloride	5.18	62	286850	23.52 ug/L	99
5) Bromomethane	5.78	94	139537	22.00 ug/L	98
6) Chloroethane	5.98	64	157362	24.34 ug/L	97
7) Trichlorofluoromethane	6.77	101	229586	27.08 ug/L	99
8) Acetone	6.93	43	31918	31.17 ug/L	96
9) Iodomethane	7.57	142	139617	35.56 ug/L	100
10) 1,1-Dichloroethene	7.51	96	132685	26.83 ug/L	96
11) Methylene chloride	7.70	84	155716	26.76 ug/L	100
12) Freon 113	7.77	101	154689	26.42 ug/L	99
13) Carbon disulfide	8.02	76	536186	30.47 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	122531	22.39 ug/L	96
15) MTBE	8.73	73	208246	22.27 ug/L	99
16) 1,1-Dichloroethane	8.92	63	250145	21.91 ug/L	99
17) Vinyl acetate	9.08	43	248788	28.06 ug/L	100
18) 2-Butanone (MEK)	9.47	72	7031	25.64 ug/L	62
19) cis-1,2-Dichloroethene	9.66	96	122924	21.69 ug/L	99
20) Bromochloromethane	9.87	128	46868	22.60 ug/L	98
21) Chloroform	9.93	83	216682	23.00 ug/L	99
22) 2,2-Dichloropropane	10.03	77	168655	22.08 ug/L	99
24) 1,2-Dichloroethane	10.78	62	131737	22.92 ug/L	98
25) 1,1,1-Trichloroethane	10.90	97	153677	22.72 ug/L	98
27) 1,1-Dichloropropene	11.15	75	178152	22.47 ug/L	99
28) Carbon tetrachloride	11.39	117	125329	22.90 ug/L	99
29) Benzene	11.44	78	457253	21.57 ug/L	99
30) Dibromomethane	12.16	93	58309	23.25 ug/L	99
31) 1,2-Dichloropropane	12.21	63	134198	22.67 ug/L	99
32) Trichloroethene	12.26	95	116844	22.04 ug/L	99
33) Bromodichloromethane	12.32	83	139583	22.43 ug/L	98
34) 2-Chlorovinylethylether	13.16	63	909	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	170102	22.52 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	77496	25.05 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	143203	24.57 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	63997	22.83 ug/L	99
40) Toluene	14.21	92	259965	21.57 ug/L	100
42) 1,3-Dichloropropane	14.27	76	134444	22.86 ug/L	97

(#) = qualifier out of range (m) = manual integration
03181111.D 031711.M Fri Mar 18 13:01:08 2011

03/21/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181111.D
Acq On : 18 Mar 2011 12:32 pm
Sample : -MS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	50509	25.76 ug/L #	93
44) Dibromochloromethane	14.65	129	80218	22.69 ug/L	99
45) 1,2-Dibromoethane	14.98	107	69348	23.49 ug/L	98
46) Tetrachloroethene	15.20	166	111131	23.84 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	84525	21.96 ug/L	99
48) Chlorobenzene	16.12	112	265370	21.73 ug/L	99
49) Ethylbenzene	16.38	91	501400	21.79 ug/L	99
50) m,p-Xylenes	16.64	106	175688	21.80 ug/L	100
51) Styrene	17.09	104	261644	21.41 ug/L	100
52) o-Xylene	17.19	106	168774	21.54 ug/L	98
55) Bromoform	16.81	173	41647	23.78 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.18	83	84105	23.75 ug/L	97
57) 1,2,3-Trichloropropane	17.38	110	17541	22.77 ug/L	92
58) Isopropylbenzene	17.69	105	460294	24.86 ug/L	100
59) Bromobenzene	18.05	156	97907	22.92 ug/L	98
60) n-Propylbenzene	18.30	91	615806	23.29 ug/L	99
61) 2-Chlorotoluene	18.44	91	335850	21.68 ug/L	99
62) 4-Chlorotoluene	18.55	91	346950	22.60 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	365742	22.86 ug/L	99
64) tert-Butylbenzene	19.09	119	308158	22.62 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	375578	23.35 ug/L	99
66) sec-Butylbenzene	19.38	105	527950	22.61 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	198093	22.75 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	197959	22.59 ug/L	99
69) p-Isopropyltoluene	19.61	119	416242	23.32 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	172866	22.83 ug/L	99
71) n-Butylbenzene	20.11	91	466267	23.47 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	10925	23.15 ug/L	90
73) 1,2,4-Trichlorobenzene	22.28	180	124221	25.40 ug/L	97
74) Naphthalene	22.62	128	153258	23.63 ug/L	100
75) Hexachlorobutadiene	22.68	225	74012	23.70 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	100939	25.32 ug/L	98

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

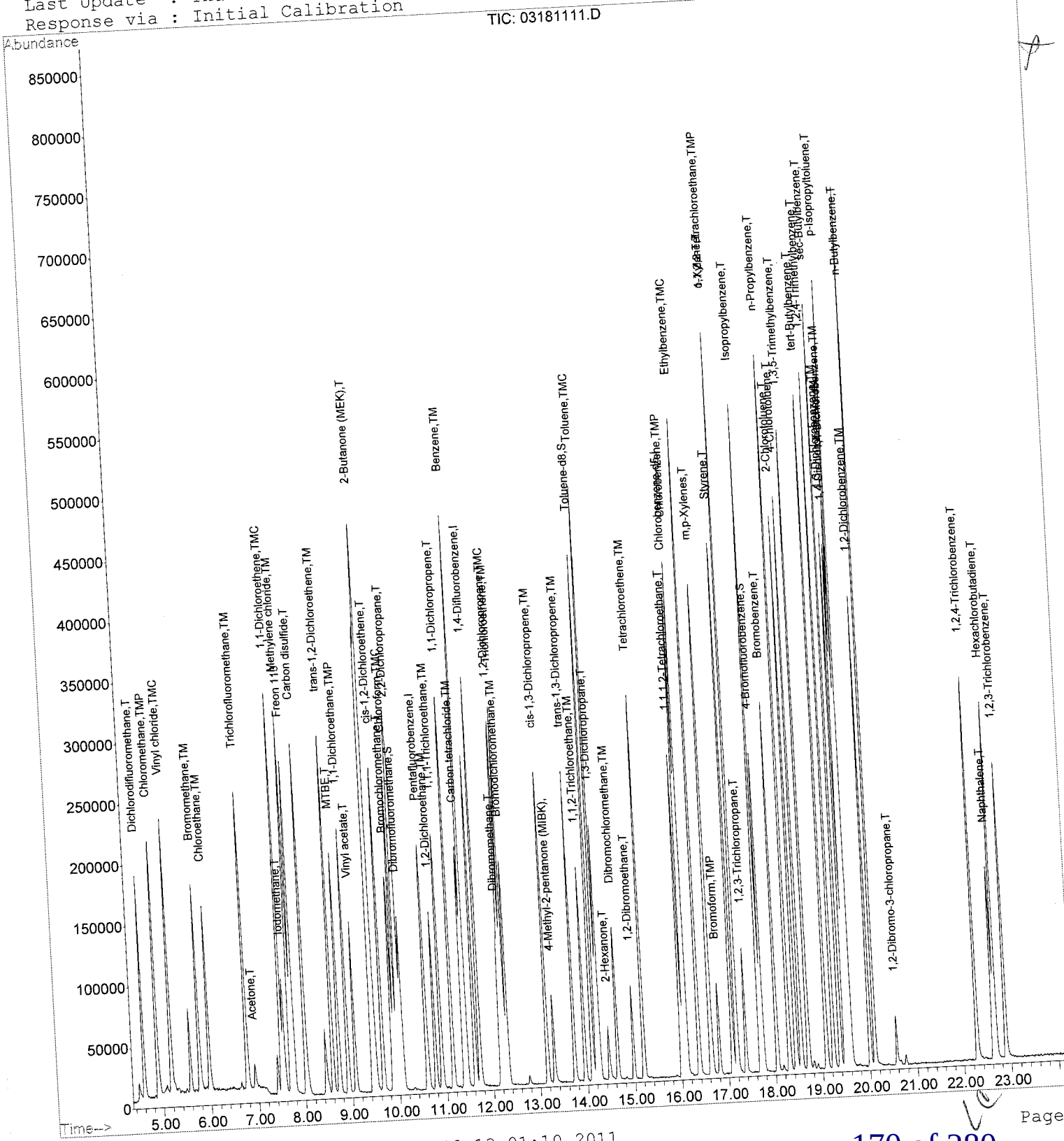
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181111.D
Acq On : 18 Mar 2011 12:32 pm
Sample : -MS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:00 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181112.D
Acq On : 18 Mar 2011 1:03 pm
Sample : -MSD1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:29 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	179999	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	308727	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	259846	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	122755	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	98275	21.70 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.80%	
39) Toluene-d8	14.12	98	339563	21.81 ug/L	0.00
Spiked Amount 25.000			Recovery	= 87.24%	
53) 4-Bromofluorobenzene	17.75	95	123469	21.68 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.72%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	189026	22.23 ug/L	98
3) Chloromethane	4.89	50	280199	19.93 ug/L	100
4) Vinyl chloride	5.18	62	290234	23.19 ug/L	99
5) Bromomethane	5.78	94	142471	21.89 ug/L	98
6) Chloroethane	5.98	64	148632	22.40 ug/L	98
7) Trichlorofluoromethane	6.78	101	223545	25.68 ug/L	99
8) Acetone	6.93	43	28585	26.69 ug/L	100
9) Iodomethane	7.57	142	116576	28.95 ug/L	98
10) 1,1-Dichloroethene	7.51	96	108745	21.42 ug/L	98
11) Methylene chloride	7.71	84	127291	21.31 ug/L	98
12) Freon 113	7.77	101	122604	20.40 ug/L	97
13) Carbon disulfide	8.03	76	455298	25.21 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	123701	22.02 ug/L	95
15) MTBE	8.74	73	207884	21.66 ug/L	99
16) 1,1-Dichloroethane	8.92	63	251313	21.45 ug/L	99
17) Vinyl acetate	9.07	43	239938	26.36 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6935	24.67 ug/L	70
19) cis-1,2-Dichloroethene	9.66	96	119845	20.60 ug/L	99
20) Bromochloromethane	9.87	128	46876	22.02 ug/L	97
21) Chloroform	9.93	83	219139	22.66 ug/L	98
22) 2,2-Dichloropropane	10.04	77	169285	21.59 ug/L	99
24) 1,2-Dichloroethane	10.78	62	129227	21.90 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	154978	22.32 ug/L	99
27) 1,1-Dichloropropene	11.14	75	178745	22.62 ug/L	99
28) Carbon tetrachloride	11.39	117	127059	23.29 ug/L	100
29) Benzene	11.44	78	457901	21.67 ug/L	98
30) Dibromomethane	12.17	93	57214	22.89 ug/L	97
31) 1,2-Dichloropropane	12.21	63	133921	22.69 ug/L	99
32) Trichloroethene	12.27	95	119509	22.62 ug/L	99
33) Bromodichloromethane	12.33	83	140177	22.60 ug/L	100
34) 2-Chlorovinylethylether	13.16	63	725	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	172442	22.90 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	75831	24.59 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	138227	23.79 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	63003	22.55 ug/L	98
40) Toluene	14.21	92	266163	22.16 ug/L	98
42) 1,3-Dichloropropane	14.27	76	131001	22.28 ug/L	95

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181112.D Vial: 5
Acq On : 18 Mar 2011 1:03 pm Operator: LC
Sample : -MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:29 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

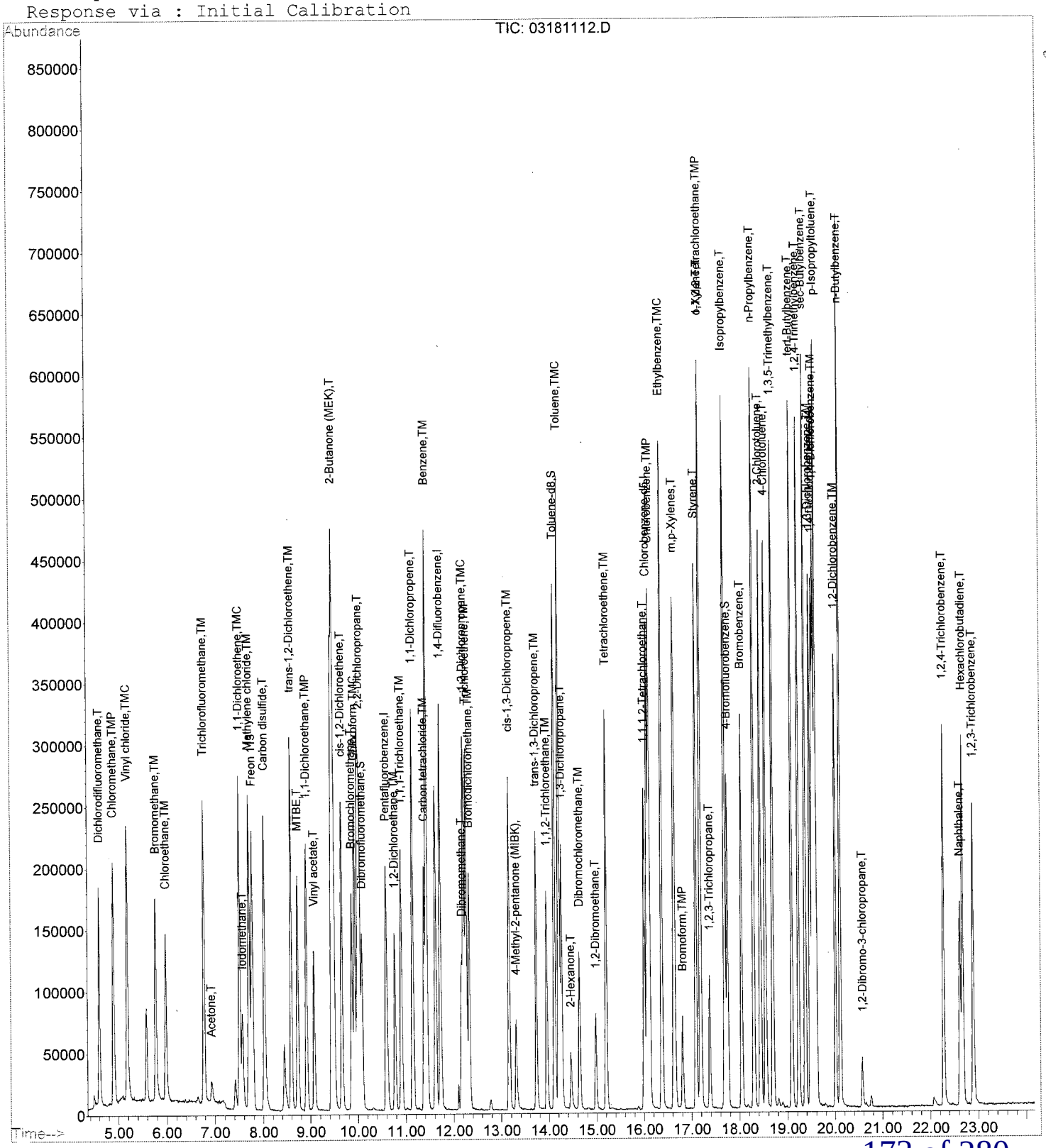
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	49246	25.12 ug/L #	98
44) Dibromochloromethane	14.64	129	79561	22.50 ug/L	96
45) 1,2-Dibromoethane	14.98	107	67250	22.78 ug/L	99
46) Tetrachloroethene	15.20	166	112766	24.20 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.01	131	86251	22.41 ug/L	98
48) Chlorobenzene	16.12	112	270123	22.12 ug/L	99
49) Ethylbenzene	16.37	91	506089	22.00 ug/L	100
50) m,p-Xylenes	16.63	106	177078	21.97 ug/L	100
51) Styrene	17.09	104	261153	21.37 ug/L	98
52) o-Xylene	17.19	106	168504	21.51 ug/L	100
55) Bromoform	16.81	173	42168	23.72 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	84237	23.44 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	18780	24.02 ug/L	98
58) Isopropylbenzene	17.69	105	469842	25.00 ug/L	99
59) Bromobenzene	18.05	156	99366	22.91 ug/L	97
60) n-Propylbenzene	18.30	91	628253	23.41 ug/L	99
61) 2-Chlorotoluene	18.44	91	345734	21.99 ug/L	100
62) 4-Chlorotoluene	18.55	91	355752	22.83 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	370004	22.78 ug/L	98
64) tert-Butylbenzene	19.08	119	312483	22.60 ug/L	100
65) 1,2,4-Trimethylbenzene	19.24	105	379550	23.25 ug/L	99
66) sec-Butylbenzene	19.38	105	534380	22.55 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	198554	22.47 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	199248	22.40 ug/L	99
69) p-Isopropyltoluene	19.61	119	416861	23.01 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	171131	22.27 ug/L	99
71) n-Butylbenzene	20.12	91	471564	23.39 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	11516	24.04 ug/L	96
73) 1,2,4-Trichlorobenzene	22.29	180	123413	24.86 ug/L	100
74) Naphthalene	22.62	128	162045	24.62 ug/L	100
75) Hexachlorobutadiene	22.68	225	74980	23.65 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	100253	24.77 ug/L	99

(#) = qualifier out of range (m) = manual integration
03181112.D 031711.M Fri Mar 18 13:29:58 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181112.D Vial: 5
Acq On : 18 Mar 2011 1:03 pm Operator: LC
Sample : -MSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 13:29 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181121.D
Acq On : 18 Mar 2011 5:40 pm
Sample : PUC0829-01
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 21 6:50 2011

Vial: 13
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/21/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	174737	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	303657	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	251558	25.00 ug/L	0.01
54) 1,4-Dichlorobenzene-d4	19.54	152	117440	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	95782	21.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 87.12%	
39) Toluene-d8	14.12	98	331155	21.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.48%	
53) 4-Bromofluorobenzene	17.76	95	116288	21.09 ug/L	0.00
Spiked Amount 25.000			Recovery	= 84.36%	

Target Compounds					Qvalue
3) Chloromethane	4.91	50	5040	0.37 ug/L LRL/NT	100
5) Bromomethane	5.78	94	227	0.29 ug/L	92
7) Trichlorofluoromethane	6.78	101	3112	0.37 ug/L	99
8) Acetone	6.94	43	6047	2.73 ug/L	96
10) 1,1-Dichloroethene	7.51	96	2281	0.46 ug/L	96
15) MTBE	8.74	73	3581	0.38 ug/L #	80
16) 1,1-Dichloroethane	8.93	63	3239	0.28 ug/L #	82
17) Vinyl acetate	9.11	43	2821	0.32 ug/L #	83
19) cis-1,2-Dichloroethene	9.67	96	20270	3.59 ug/L	98
21) Chloroform	9.93	83	4421	0.47 ug/L LRL/NT	93
24) 1,2-Dichloroethane	10.79	62	1352	0.24 ug/L #	76
32) Trichloroethene	12.27	95	150063	28.88 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	768	0.25 ug/L # LRL/NT	50
38) 1,1,2-Trichloroethane	13.96	83	406	0.15 ug/L #	77
40) Toluene	14.22	92	3391	0.29 ug/L	94
42) 1,3-Dichloropropane	14.28	76	1292	0.23 ug/L	96
43) 2-Hexanone	14.50	43	772	0.41 ug/L #	71
46) Tetrachloroethene	15.21	166	4364	0.97 ug/L	95
50) m,p-Xylenes	16.66	106	1073	0.14 ug/L LRL/NT	75
56) 1,1,2,2-Tetrachloroethane	17.19	83	473	0.14 ug/L #	49
57) 1,2,3-Trichloropropane	17.40	110	131	0.18 ug/L #	27
70) 1,2-Dichlorobenzene	20.01	146	845	0.11 ug/L	86
73) 1,2,4-Trichlorobenzene	22.30	180	1124	0.24 ug/L	83
74) Naphthalene	22.64	128	2310	0.37 ug/L	100
76) 1,2,3-Trichlorobenzene	22.91	180	1282	0.33 ug/L	90

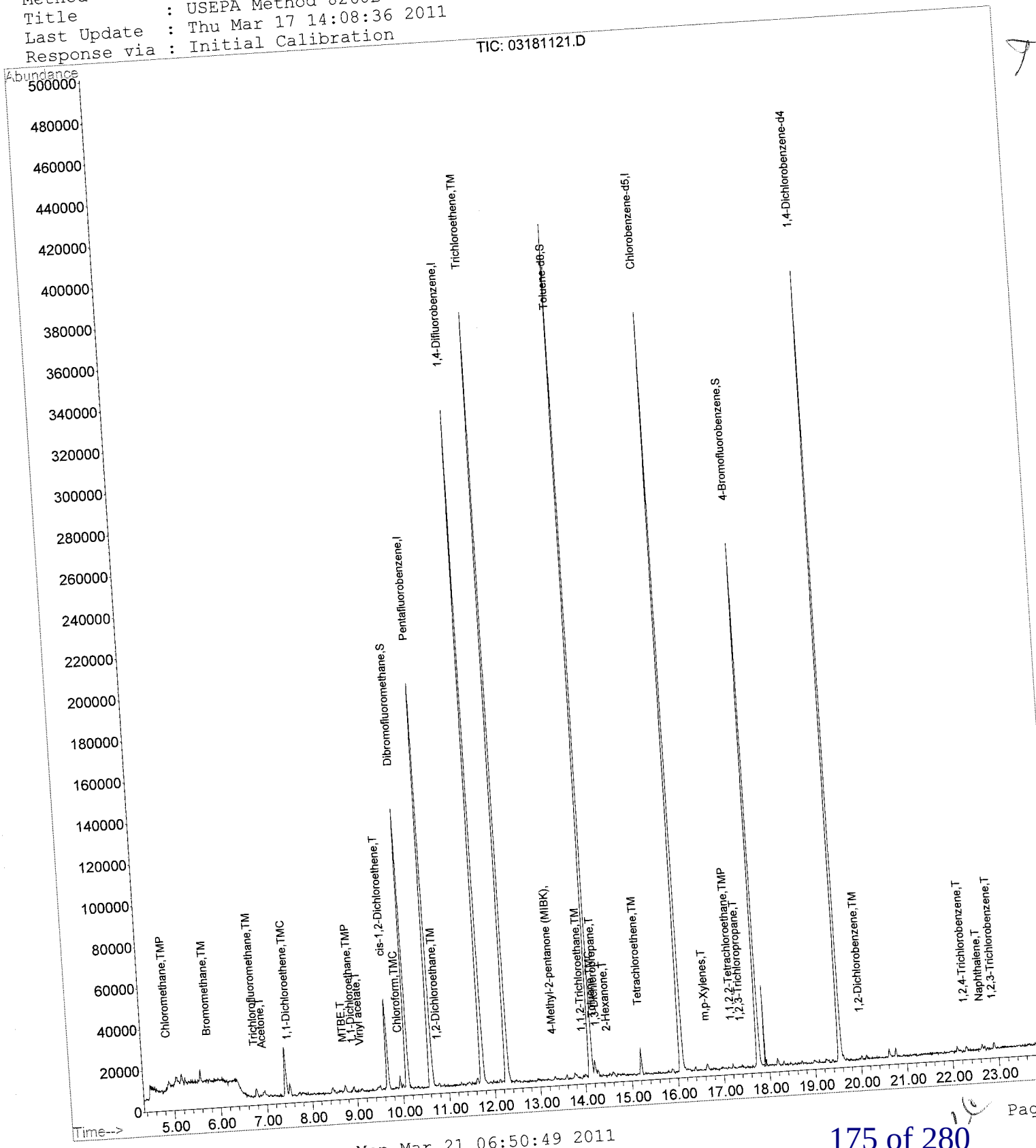
LC 03/21/11

(#) = qualifier out of range (m) = manual integration
03181121.D 031711.M Mon Mar 21 06:50:49 2011

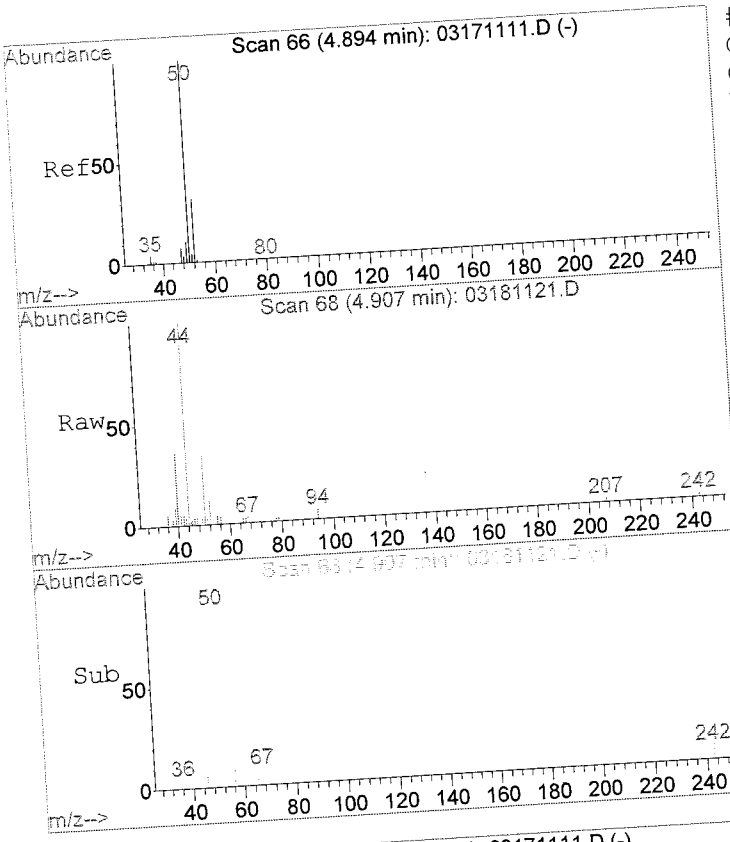
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031811\03181121.D Vial: 13
Acq On : 18 Mar 2011 5:40 pm Operator: LC
Sample : PUC0829-01 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 21 6:50 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



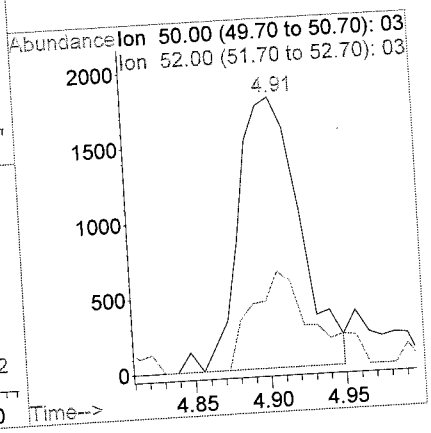
03181121.D 031711.M Mon Mar 21 06:50:49 2011

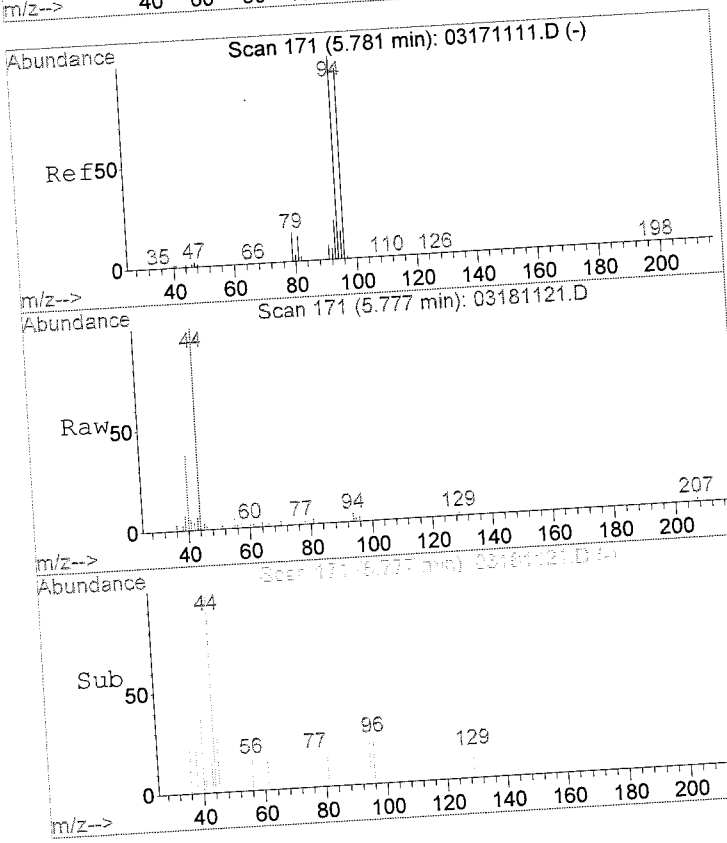


#3
Chloromethane
Concen: 0.37 ug/L
RT: 4.91 min Scan# 68
Delta R.T. 0.01 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 50 Resp: 5040

Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.1	37.7

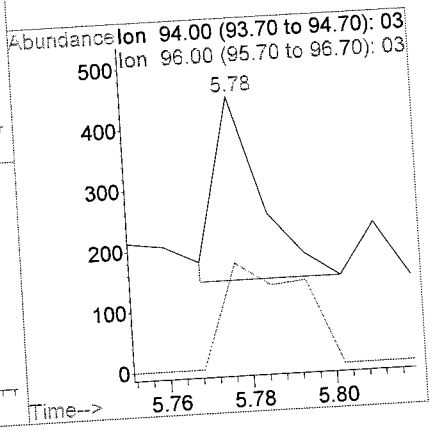


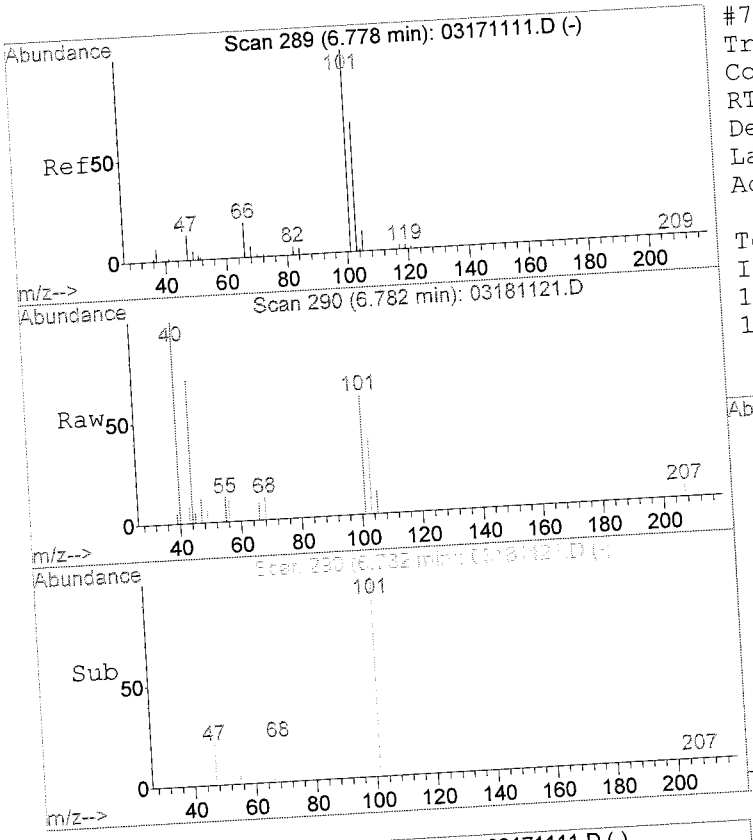


#5
Bromomethane
Concen: 0.29 ug/L
RT: 5.78 min Scan# 171
Delta R.T. -0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 94 Resp: 227

Ion	Ratio	Lower	Upper
94	100		
96	100.0	74.0	111.0

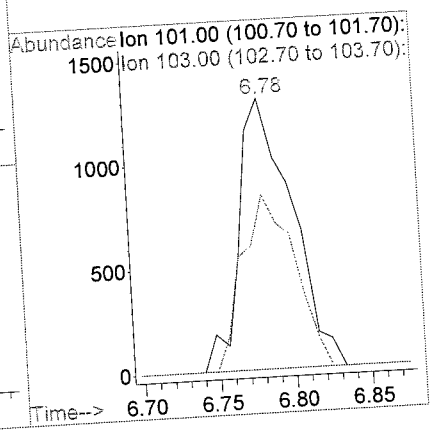


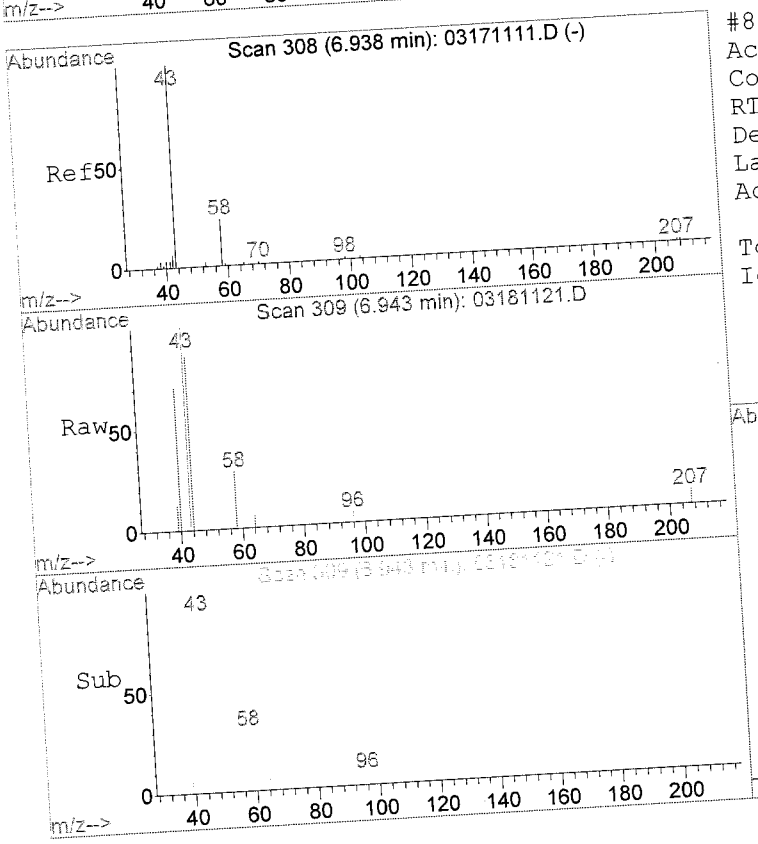


#7
Trichlorofluoromethane
Concen: 0.37 ug/L
RT: 6.78 min Scan# 290
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:101 Resp: 3112

Ion	Ratio	Lower	Upper
101	100		
103	64.5	50.7	76.1

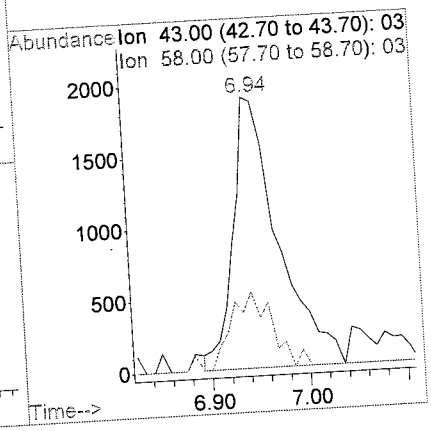


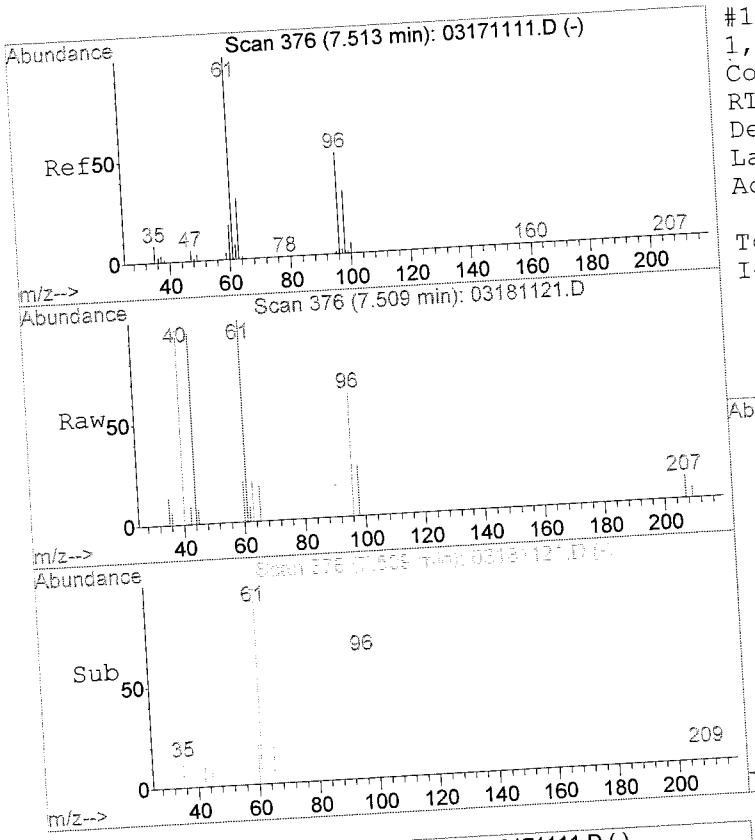


#8
Acetone
Concen: 2.73 ug/L
RT: 6.94 min Scan# 309
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 43 Resp: 6047

Ion	Ratio	Lower	Upper
43	100		
58	24.4	21.2	31.8

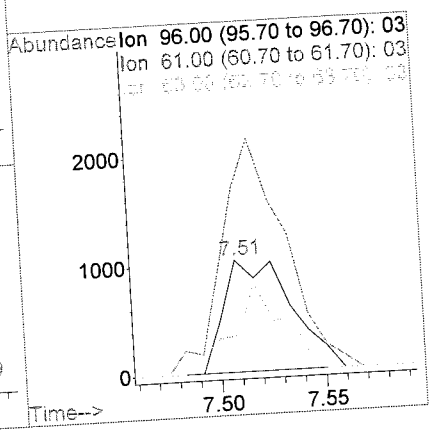


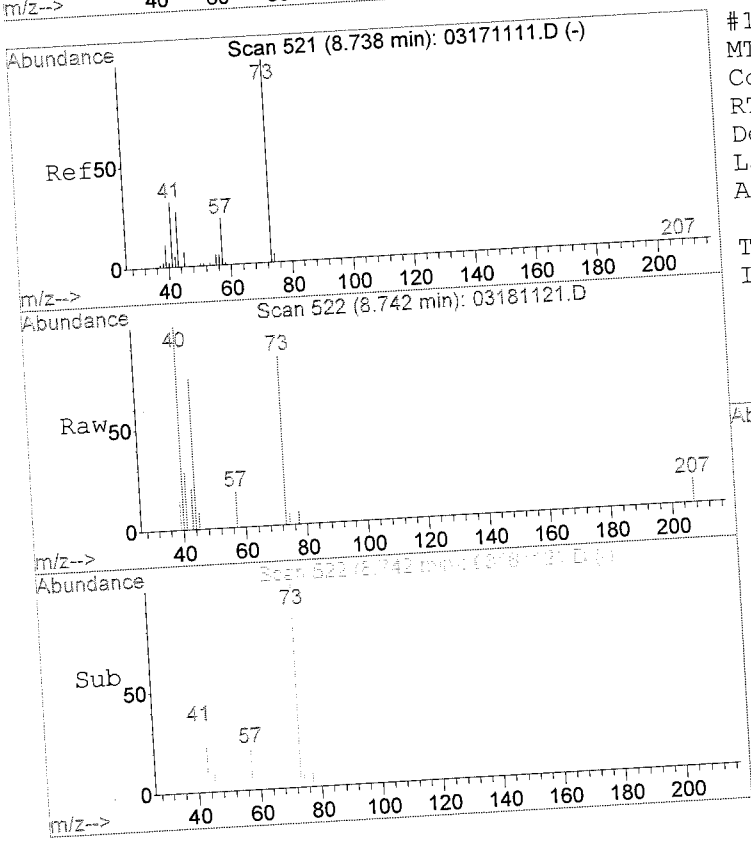


#10
1,1-Dichloroethene
Concen: 0.46 ug/L
RT: 7.51 min Scan# 376
Delta R.T. -0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 96 Resp: 2281

Ion	Ratio	Lower	Upper
96	100		
61	195.5	160.7	241.1
63	60.4	50.9	76.3

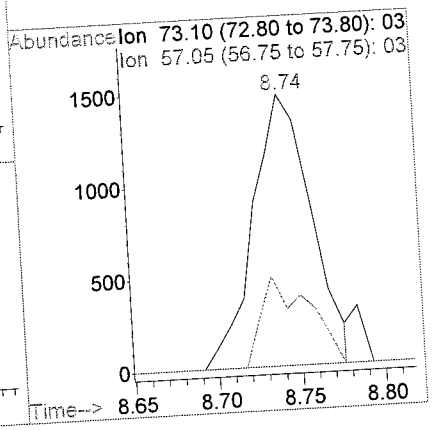


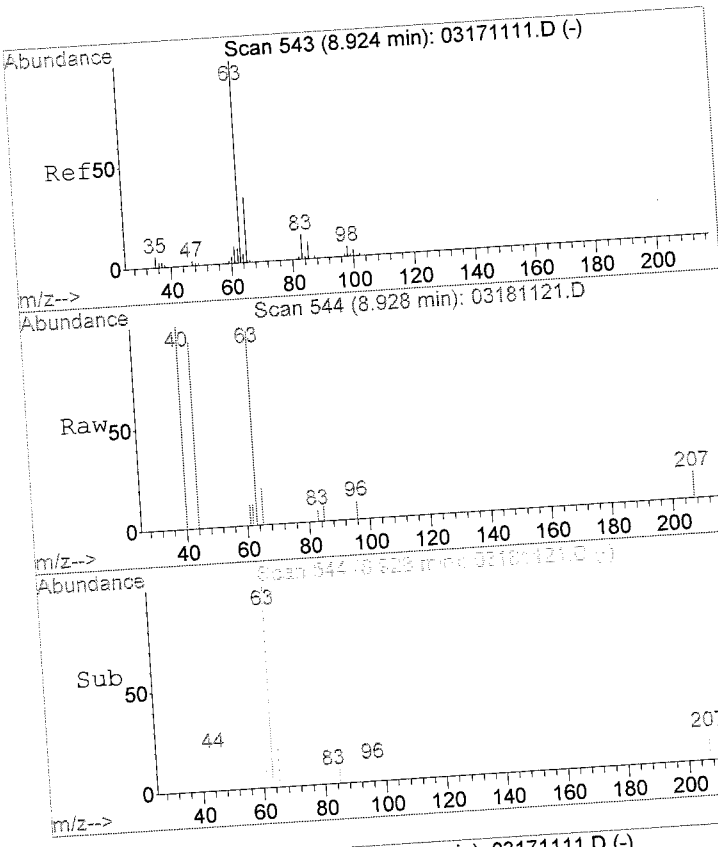


#15
MTBE
Concen: 0.38 ug/L
RT: 8.74 min Scan# 522
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 73 Resp: 3581

Ion	Ratio	Lower	Upper
73	100		
57	14.9	20.0	30.0#

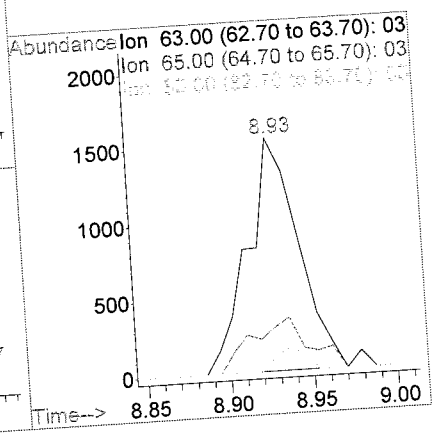


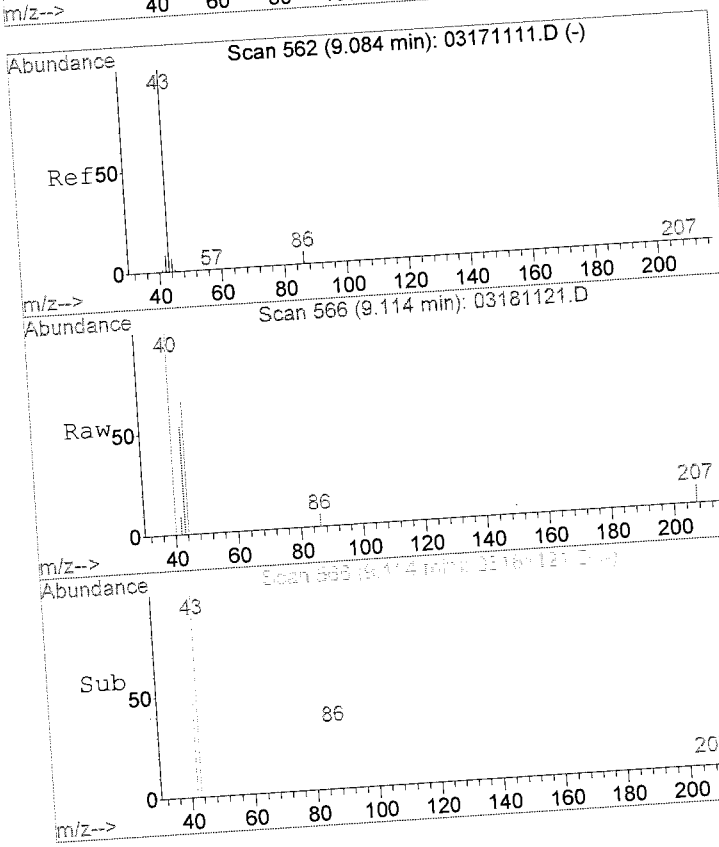


#16
1,1-Dichloroethane
Concen: 0.28 ug/L
RT: 8.93 min Scan# 544
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 63 Resp: 3239

Ion	Ratio	Lower	Upper
63	100		
65	23.6	25.2	37.8#
83	0.0	9.2	13.8#

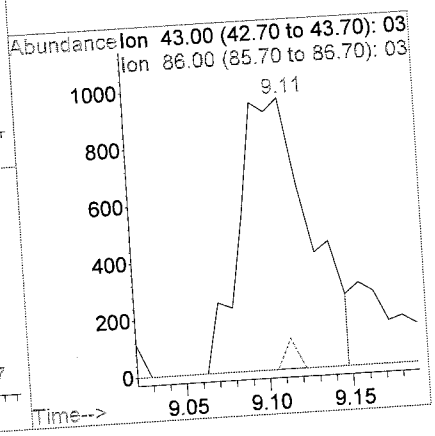


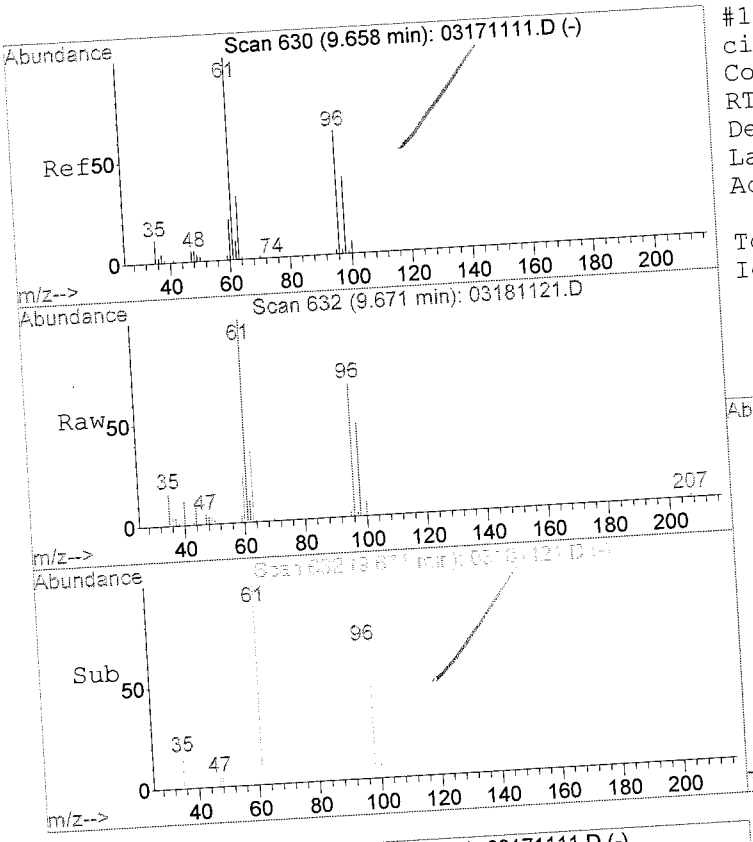


#17
Vinyl acetate
Concen: 0.32 ug/L
RT: 9.11 min Scan# 566
Delta R.T. 0.03 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 43 Resp: 2821

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#

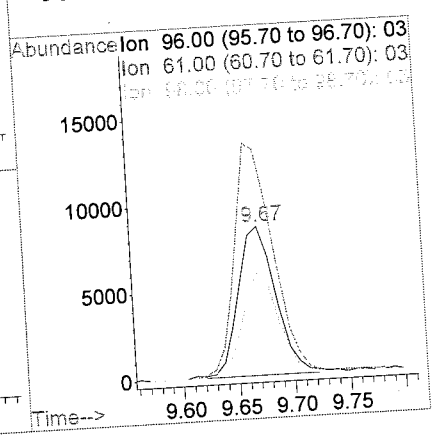


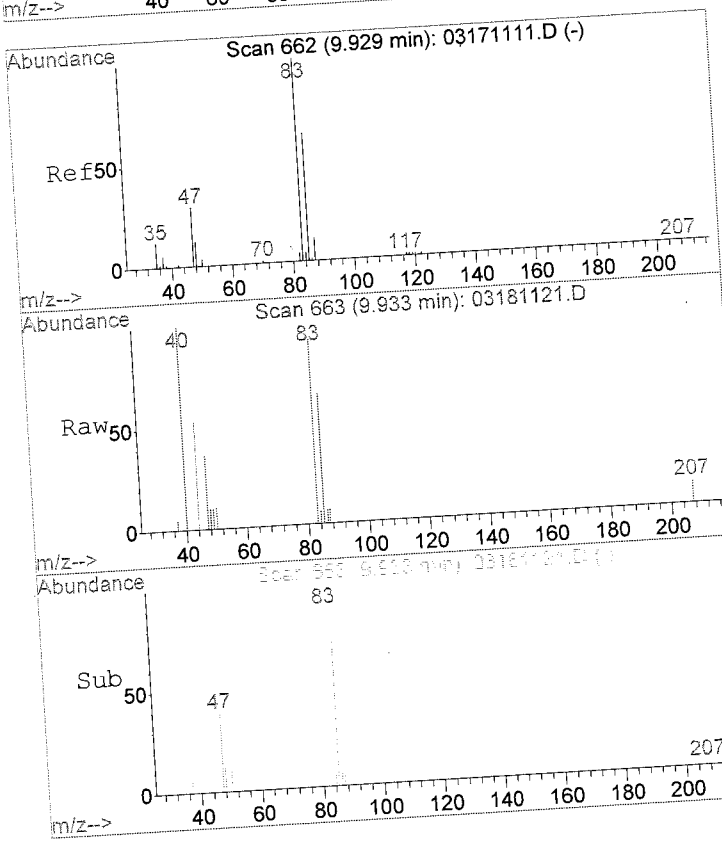


#19
cis-1,2-Dichloroethene
Concen: 3.59 ug/L
RT: 9.67 min Scan# 632
Delta R.T. 0.01 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 96 Resp: 20270

Ion	Ratio	Lower	Upper
96	100		
61	160.0	128.5	192.7
98	66.5	49.9	74.9

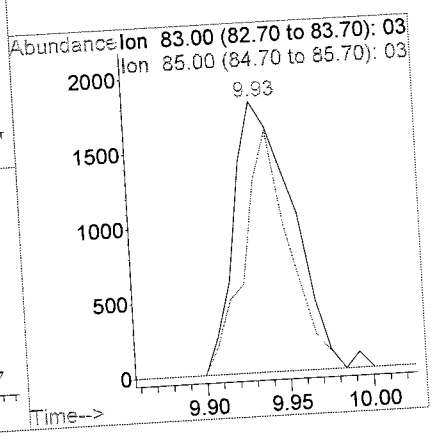


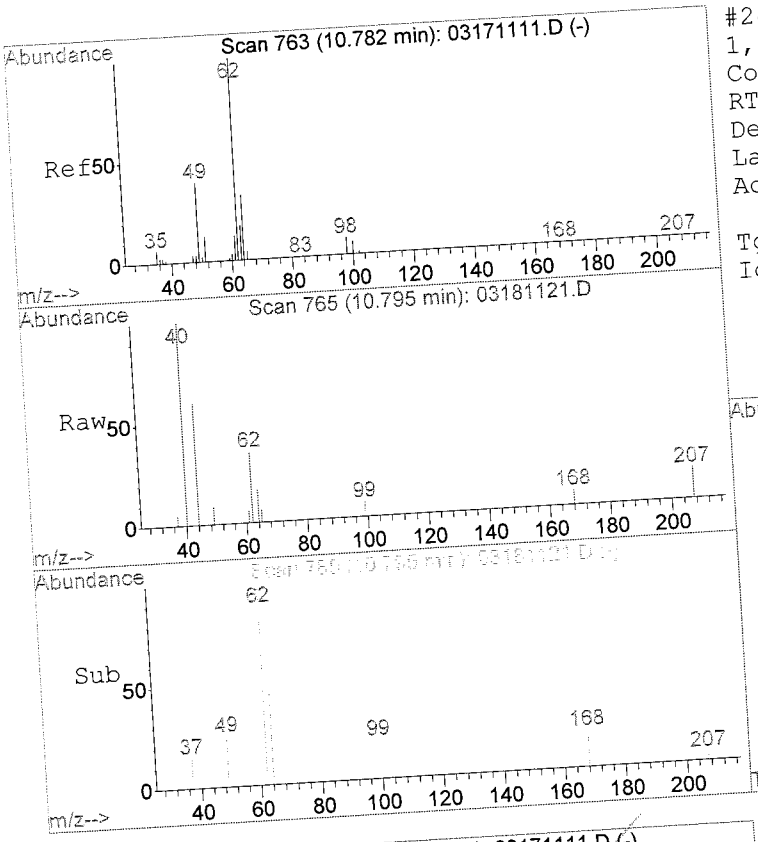


#21
Chloroform
Concen: 0.47 ug/L
RT: 9.93 min Scan# 663
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 83 Resp: 4421

Ion	Ratio	Lower	Upper
83	100		
85	70.0	51.6	77.4

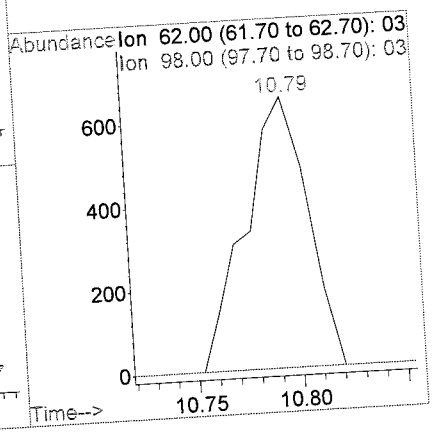


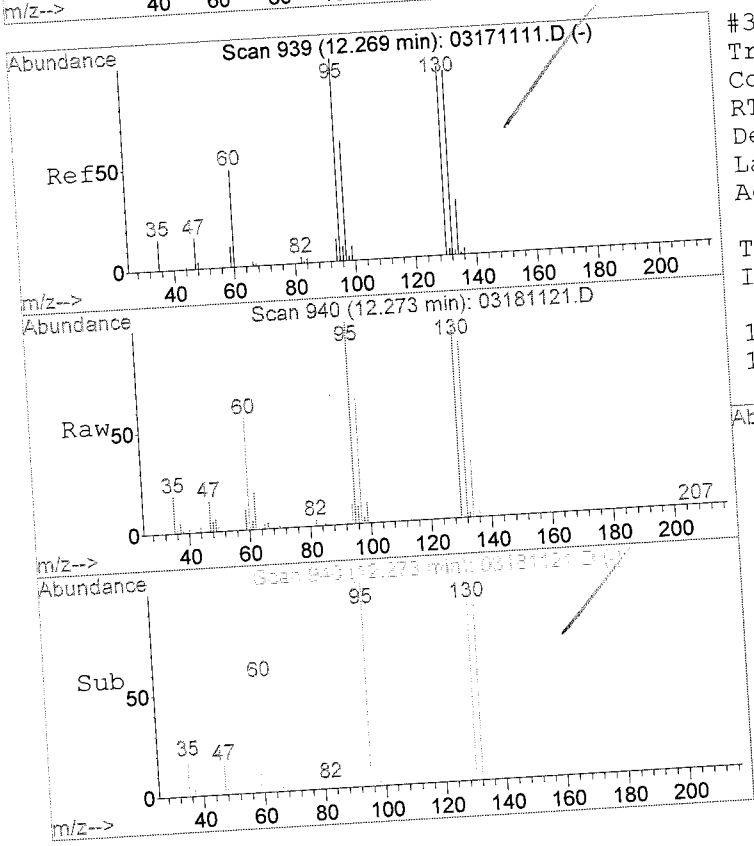


#24
1,2-Dichloroethane
Concen: 0.24 ug/L
RT: 10.79 min Scan# 765
Delta R.T. 0.01 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 62 Resp: 1352

Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.0	10.6#

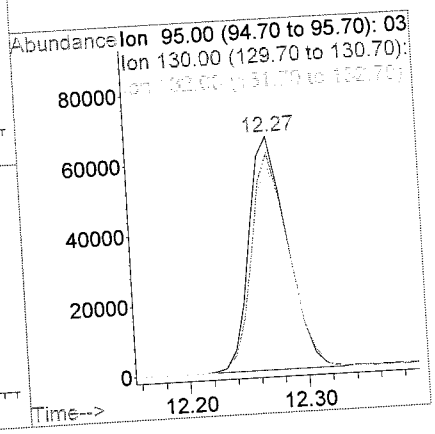


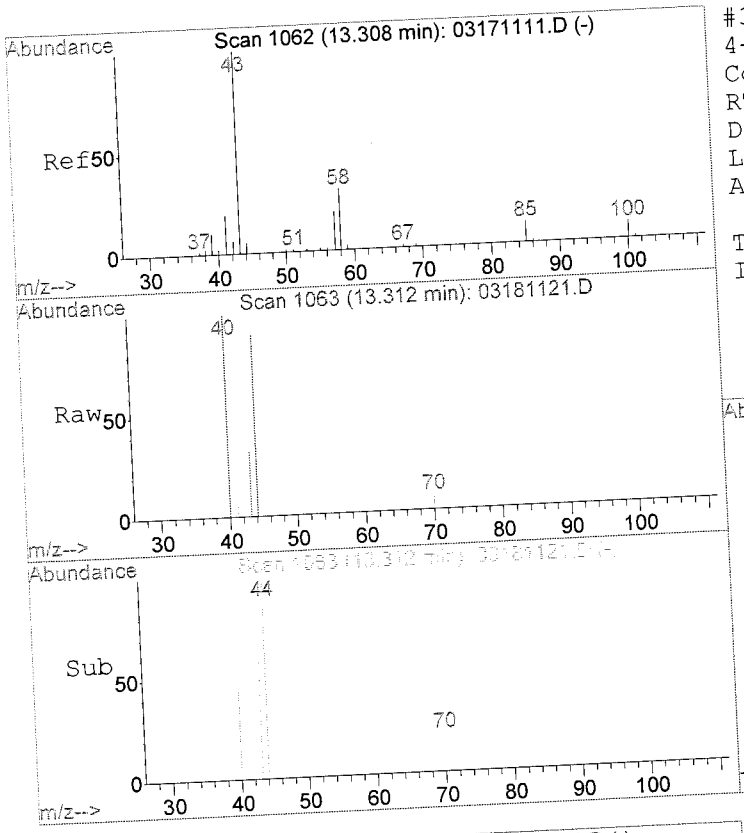


#32
Trichloroethene
Concen: 28.88 ug/L
RT: 12.27 min Scan# 940
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 95 Resp: 150063

Ion	Ratio	Lower	Upper
95	100		
130	90.5	74.2	111.4
132	87.7	70.8	106.2

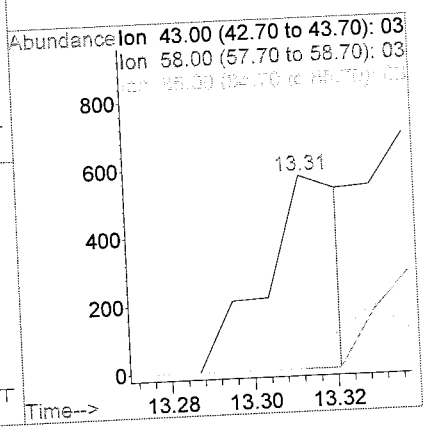


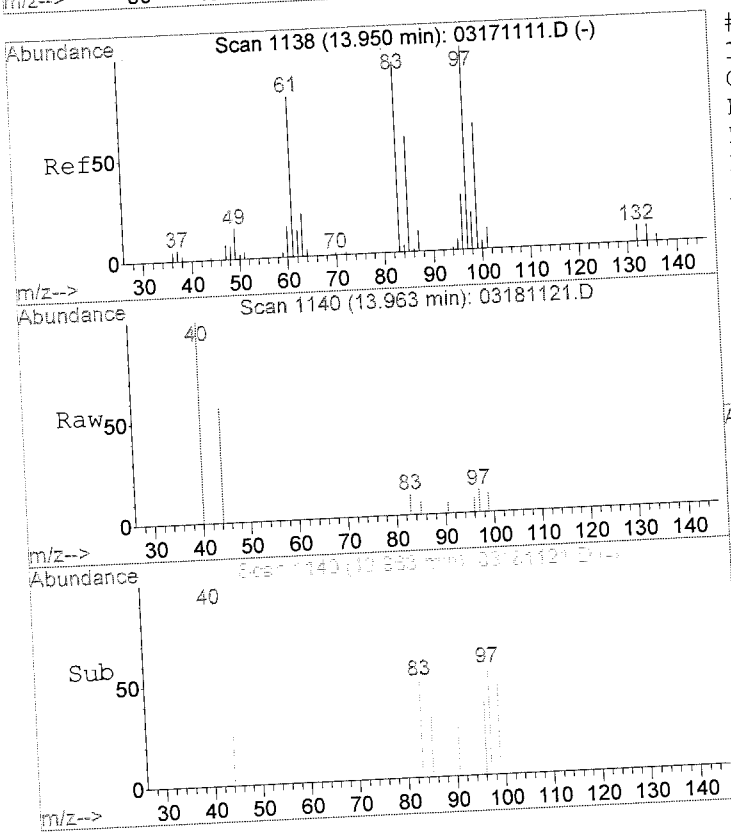


#36
4-Methyl-2-pentanone (MIBK)
Concen: 0.25 ug/L
RT: 13.31 min Scan# 1063
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 43 Resp: 768

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.4	38.0#
85	0.0	7.4	11.0#

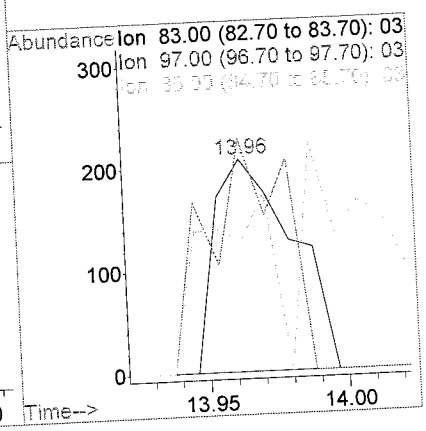


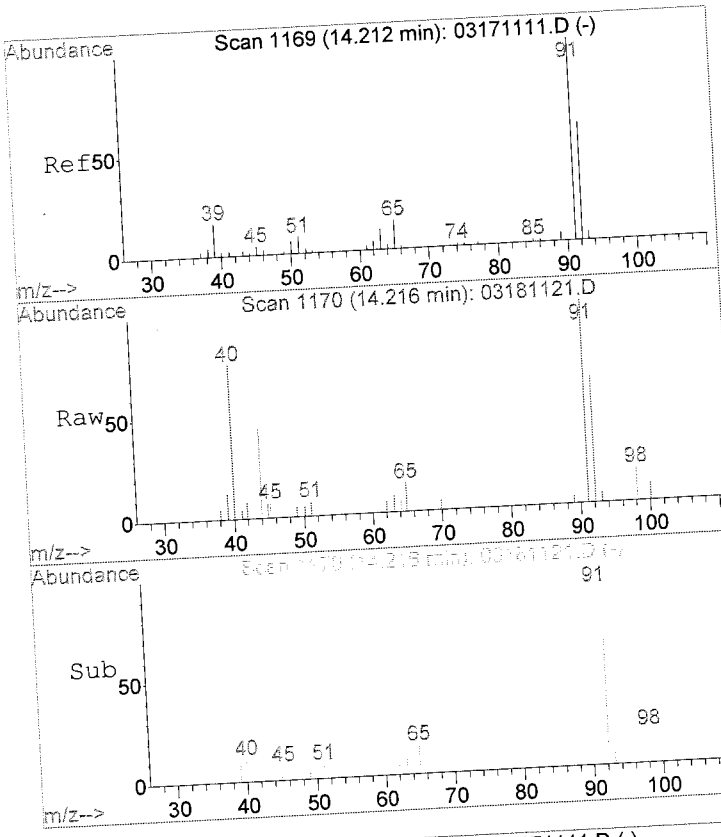


#38
1,1,2-Trichloroethane
Concen: 0.15 ug/L
RT: 13.96 min Scan# 1140
Delta R.T. 0.01 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 83 Resp: 406

Ion	Ratio	Lower	Upper
83	100		
97	106.9	83.0	124.6
85	21.7	51.3	76.9#

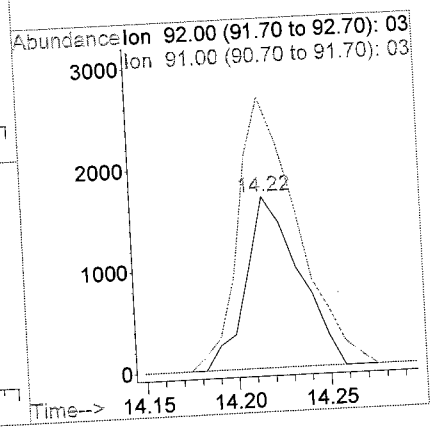


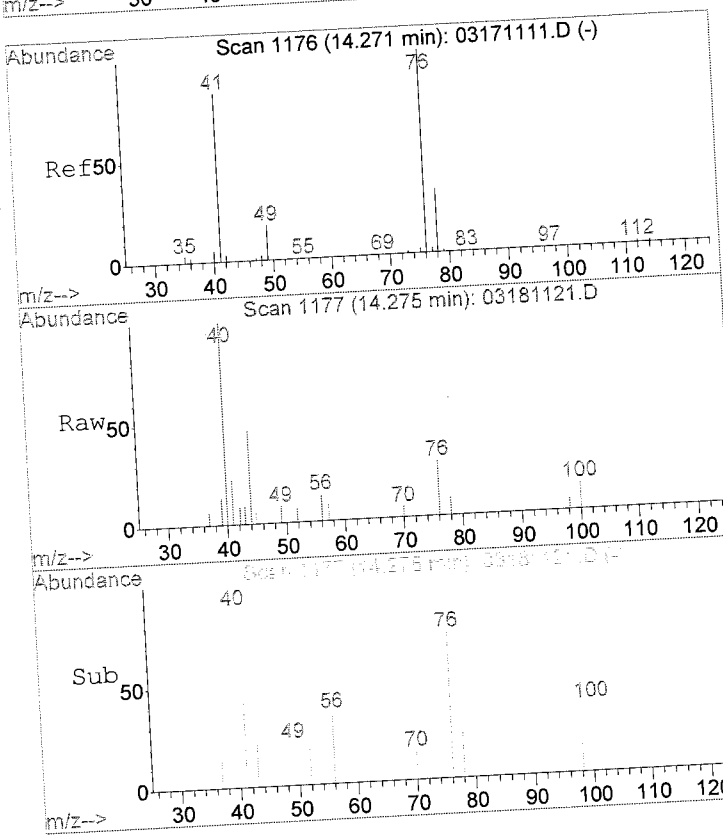


#40
Toluene
Concen: 0.29 ug/L
RT: 14.22 min Scan# 1170
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 92 Resp: 3391

Ion	Ratio	Lower	Upper
92	100		
91	175.9	134.7	202.1

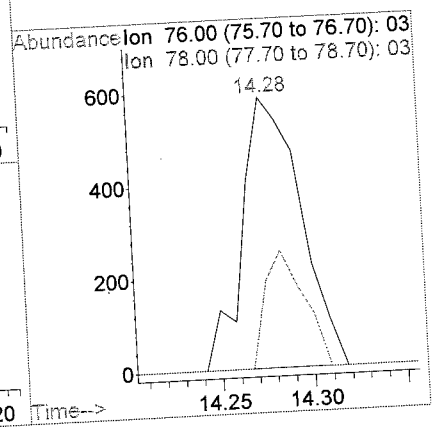


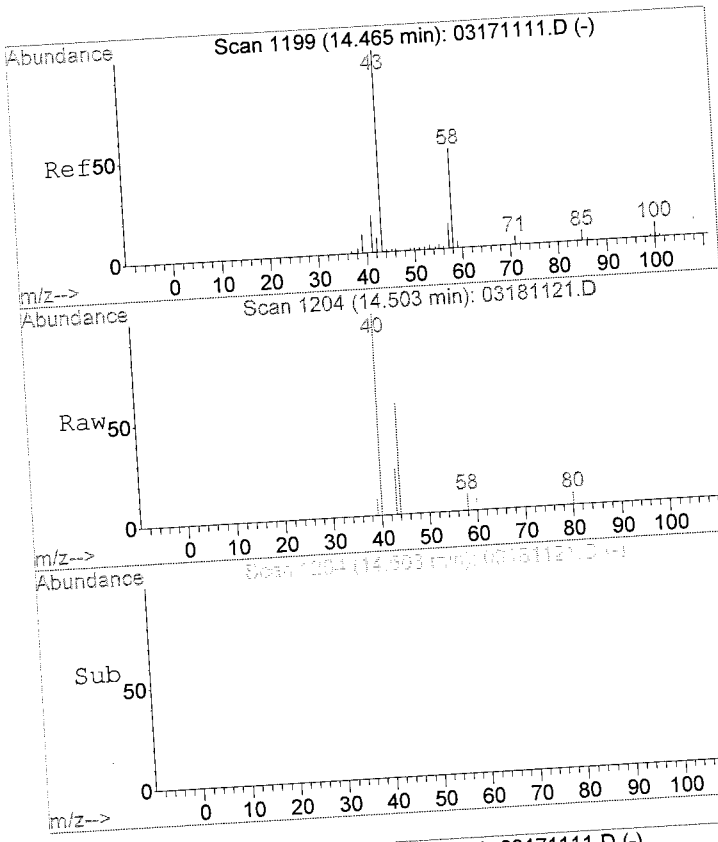


#42
1,3-Dichloropropane
Concen: 0.23 ug/L
RT: 14.28 min Scan# 1177
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 76 Resp: 1292

Ion	Ratio	Lower	Upper
76	100		
78	28.8	24.6	37.0

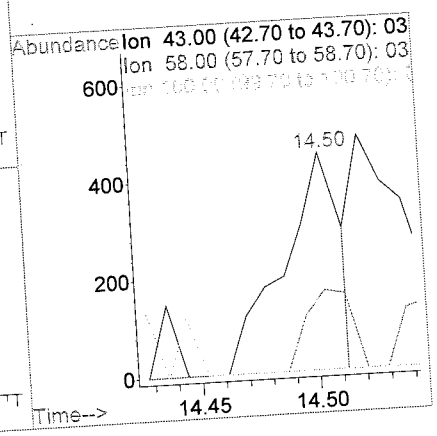


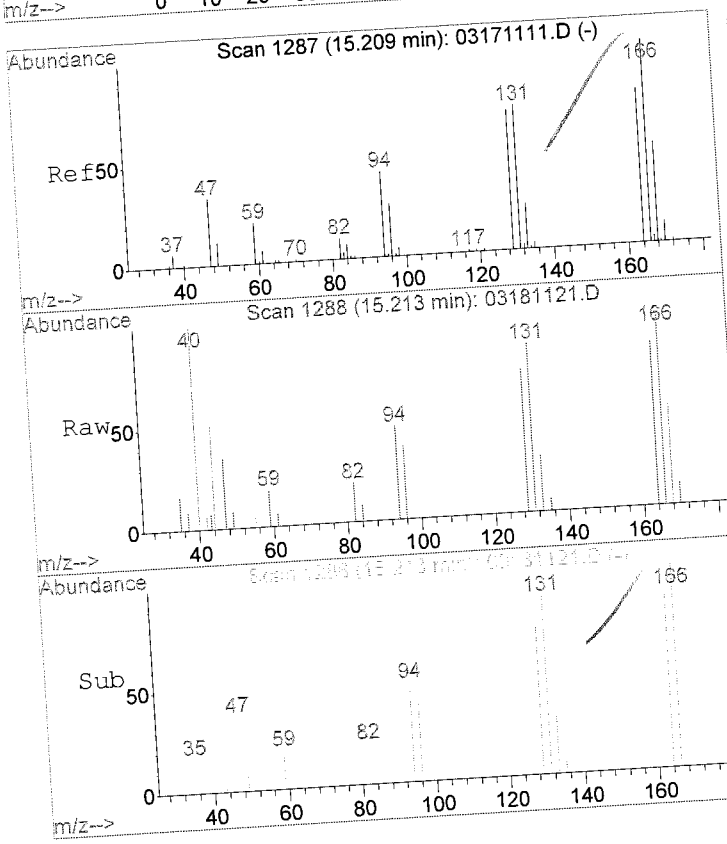


#43
2-Hexanone
Concen: 0.41 ug/L
RT: 14.50 min Scan# 1204
Delta R.T. 0.04 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 43 Resp: 772

Ion	Ratio	Lower	Upper
43	100		
58	28.2	38.2	57.4#
100	0.0	0.0	0.0

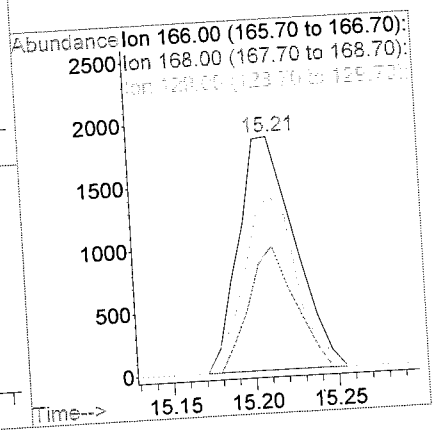


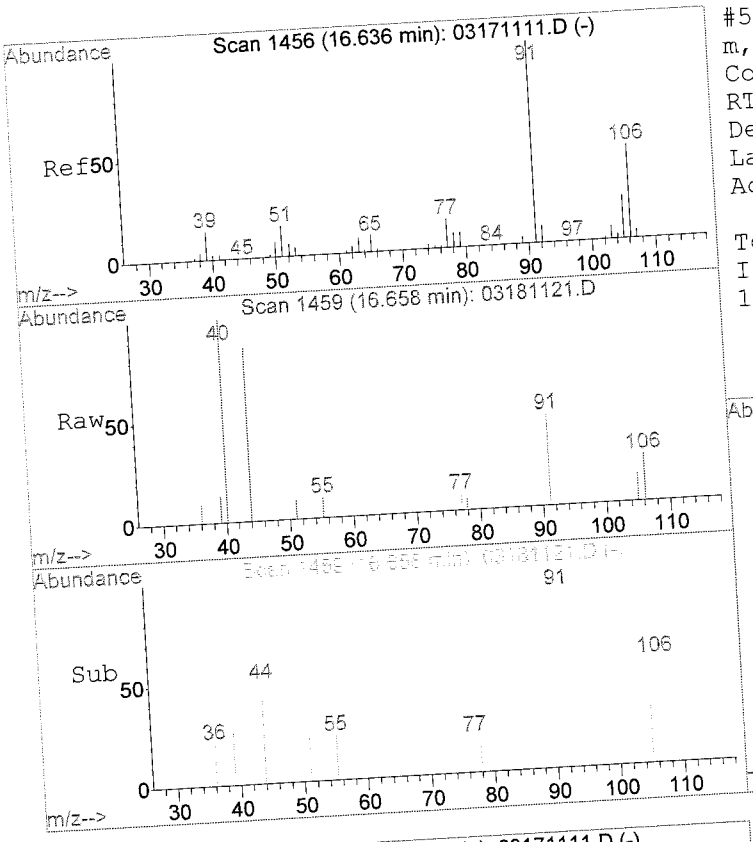


#46
Tetrachloroethene
Concen: 0.97 ug/L
RT: 15.21 min Scan# 1288
Delta R.T. 0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:166 Resp: 4364

Ion	Ratio	Lower	Upper
166	100		
168	43.7	37.9	56.9
129	70.5	59.8	89.8

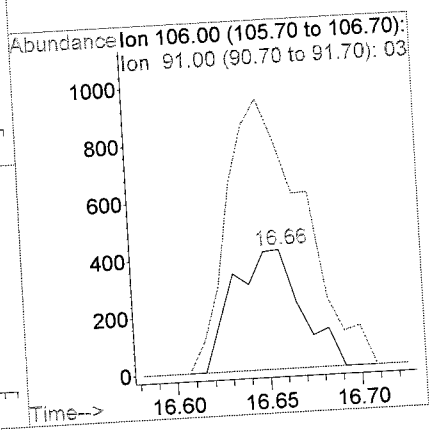


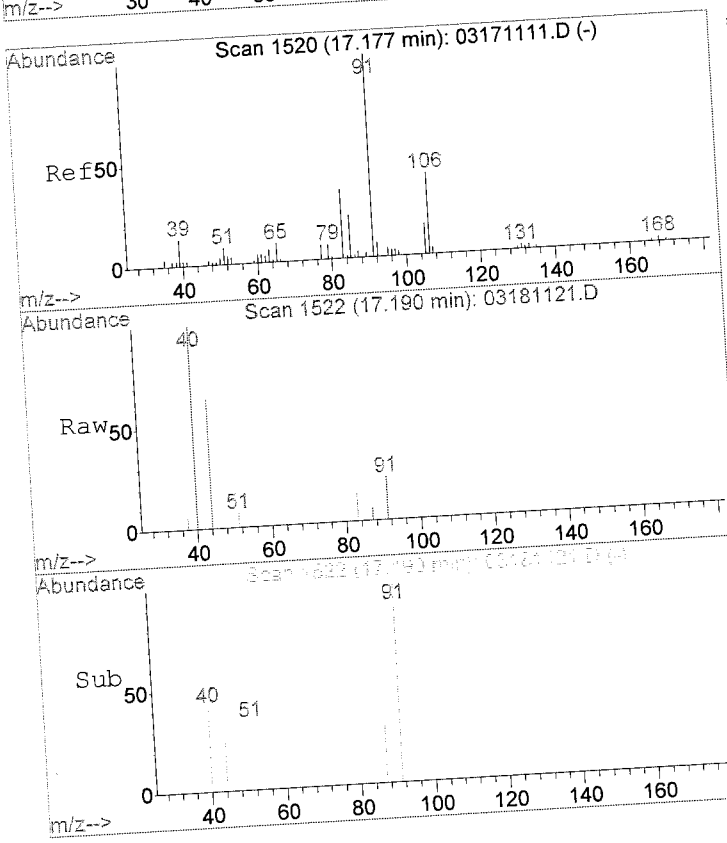


#50
m,p-Xylenes
Concen: 0.14 ug/L
RT: 16.66 min Scan# 1459
Delta R.T. 0.02 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:106 Resp: 1073

Ion	Ratio	Lower	Upper
106	100		
91	254.2	171.2	256.8

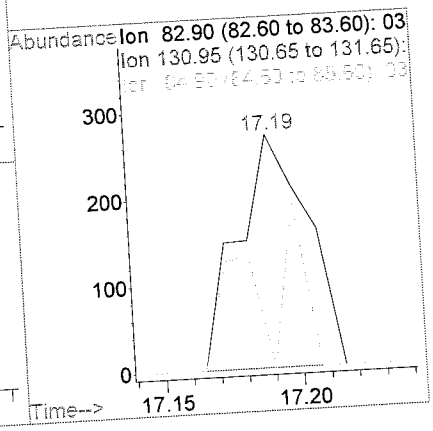


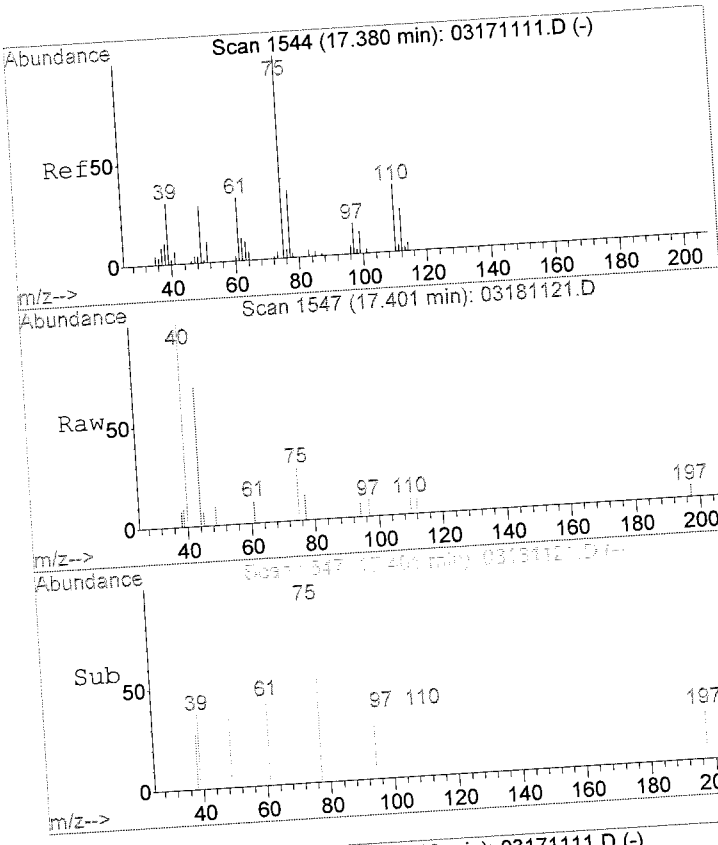


#56
1,1,2,2-Tetrachloroethane
Concen: 0.14 ug/L
RT: 17.19 min Scan# 1522
Delta R.T. 0.01 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion: 83 Resp: 473

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.9	8.9#
85	20.7	50.6	76.0#

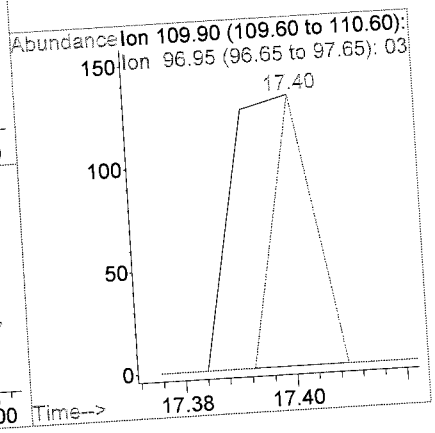


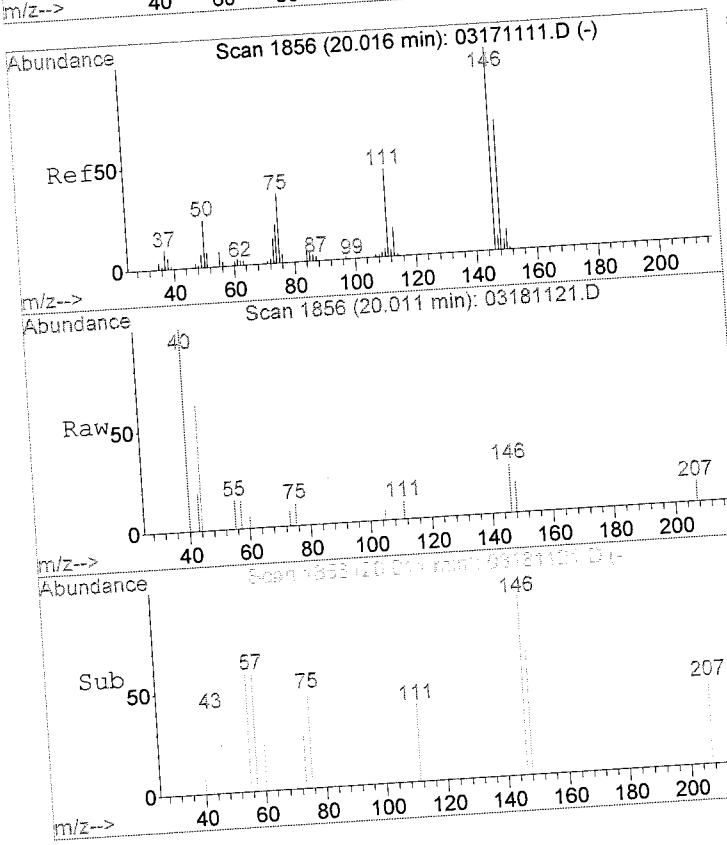


#57
1,2,3-Trichloropropane
Concen: 0.18 ug/L
RT: 17.40 min Scan# 1547
Delta R.T. 0.02 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:110 Resp: 131

Ion	Ratio	Lower	Upper
110	100		
97	0.0	40.9	61.3#

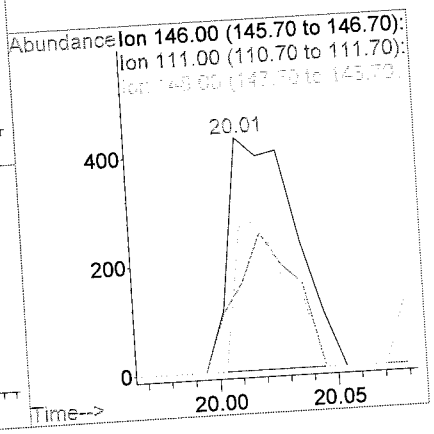


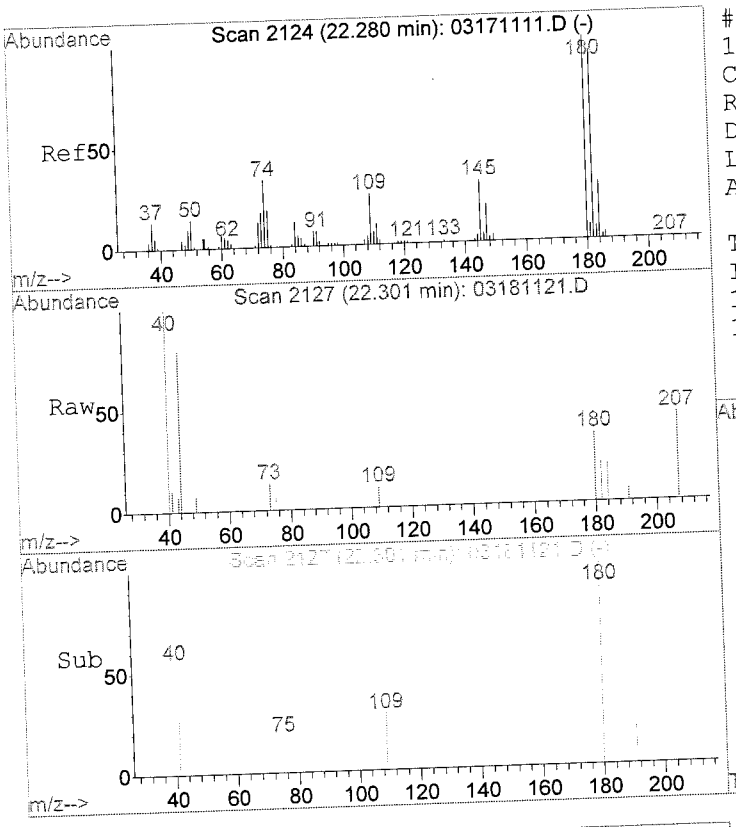


#70
1,2-Dichlorobenzene
Concen: 0.11 ug/L
RT: 20.01 min Scan# 1856
Delta R.T. -0.00 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:146 Resp: 845

Ion	Ratio	Lower	Upper
146	100		
111	52.1	35.5	53.3
148	50.5	50.2	75.4

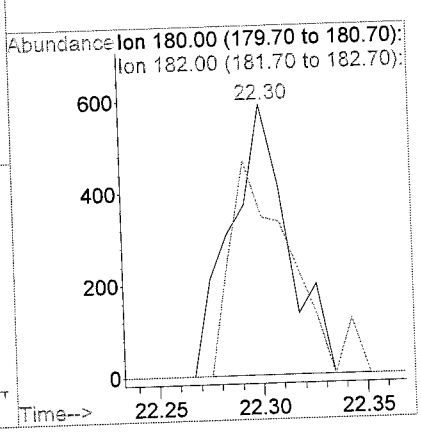


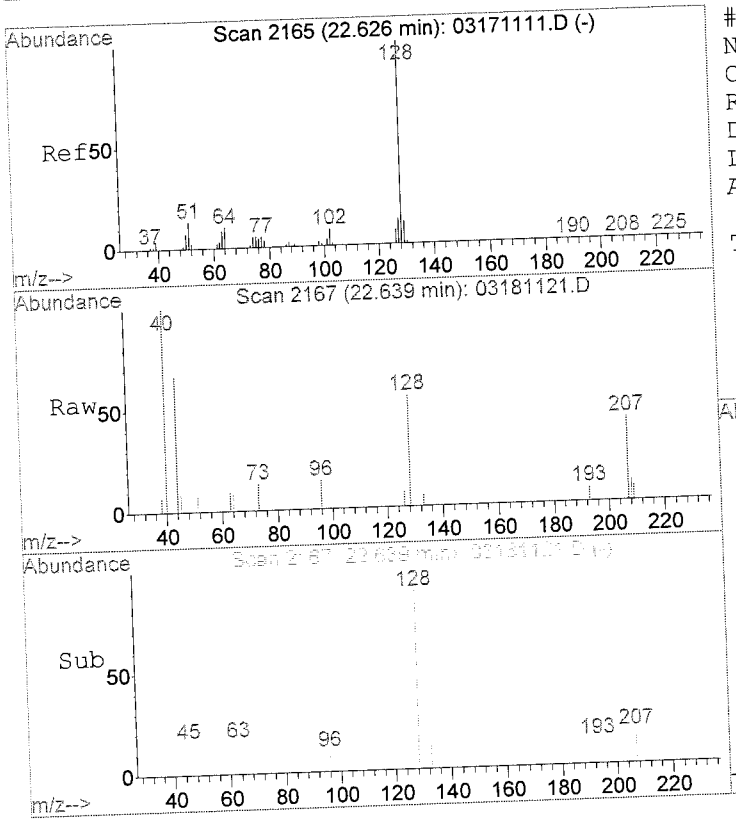


#73
1,2,4-Trichlorobenzene
Concen: 0.24 ug/L
RT: 22.30 min Scan# 2127
Delta R.T. 0.02 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:180 Resp: 1124

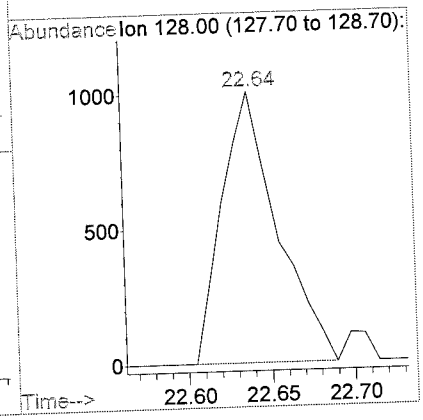
Ion	Ratio	Lower	Upper
180	100		
182	78.8	76.5	114.7

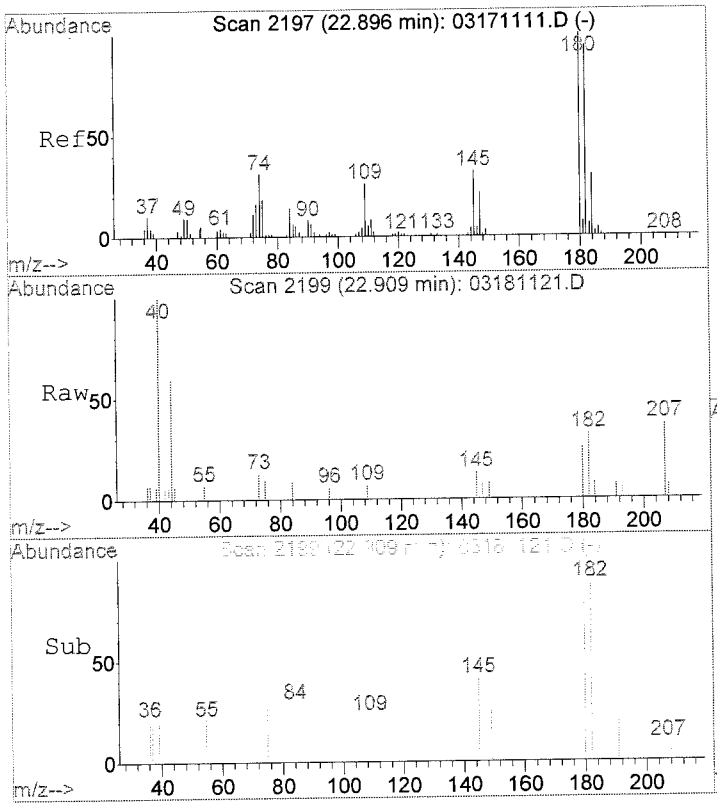




#74
Naphthalene
Concen: 0.37 ug/L
RT: 22.64 min Scan# 2167
Delta R.T. 0.01 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:128 Resp: 2310

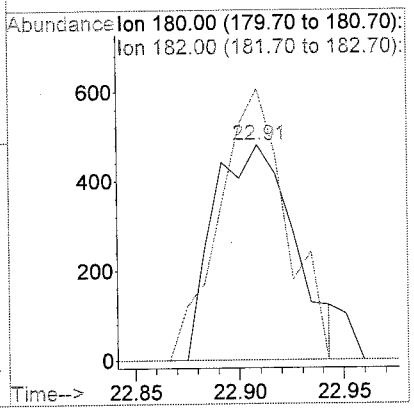




#76
1,2,3-Trichlorobenzene
Concen: 0.33 ug/L
RT: 22.91 min Scan# 2199
Delta R.T. 0.01 min
Lab File: 03181121.D
Acq: 18 Mar 2011 5:40 pm

Tgt Ion:180 Resp: 1282

Ion	Ratio	Lower	Upper
180	100		
182	105.0	76.1	114.1



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DIGESTION and/or EXTRACTION

METHOD: EPA 3520C

Work Order:

PUC0829-01

PREPARATION BENCH SHEET

11C0526

TestAmerica Phoenix

Printed: 3/21/2011 1:01:35PM

Matrix: Water **'repared using: N_GCMS Semivolatiles - N_EPA 3520(** **Surrogate used: PU01147**

Lab Number	C	Analysis	Prepared	Initial (ml)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
11C0526-BLK1		QC	03/14/11 17:35	1000	1						100				
11C0526-BS1		QC	03/14/11 17:35	1000	1		PT05700	200			100				
11C0526-BSD1		QC	03/14/11 17:35	1000	1		PT05700	200			100				
PUC0730-01	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				Level 3
PUC0731-01	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0731-02	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0731-03	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0731-04	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0827-01	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0827-02	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0827-03	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0827-04	D	N_1,4-Dioxane (SW82	03/14/11 17:35	880	1						100				
PUC0827-05	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				
PUC0829-01	D	N_1,4-Dioxane (SW82	03/14/11 17:35	1000	1						100				Level 3

Reagents used in Batch

Reagent	**Description**	**Solvent**

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Spiking ...essed By Date

C Tai 3/21/11

Preparation Reviewed By Date

Extracts Received By Date

TestAmerica Phoenix

☐Check box if the back of the previous page is used for additional noted, comments, or calculations. The use of other scratch paper is strictly prohibited.

Extraction Date: 3-14-11 **Liquid/Liquid Extraction Record** Test Code: 1,4 Dioxane

LIMS Batch No: BNA03M11A Element No.: 11C0526 Analytical Method: 3520 C

Solvent/Lot No.1. DCM / J45501 2. — Final Sol.: DCM / J45501 Na_2SO_4 Lot #: —

Acid/Base/Lot No.1. — 2. — 3. —

Surrogate: Mod. 8270 Conc. 200ppm Volume: 100µl Std. ID#: PV01147 Exp Date 8-24-11 J.G.

Spike #1: ~~PTD5700~~ 1,4 Dioxane 8-24-11 Conc. 100ppm Volume: 200µl Std. ID#: PTD5700 Exp Date 10-31-11 J.G.

Spike #2: — Conc. — Volume: — Std. ID#: — Exp Date —

Spike #3: — Conc. — Volume: — Std. ID#: — Exp Date —

Spike #4: — Conc. — Volume: — Std. ID#: — Exp Date —

Start Time: 17:35 End Time: 1745 3/16/11 Spiked By: KA Spike Witness: JG

K-D'd by: JG E-vap'd by: JG Solvent Ex'd by: NA Brought to V_f & Vialed by: a

	Sample #	RE	Sample Frac.	pH[1]		Initial Vol/Wt (mLs/g)	Final Vol. (mLs)	K-D'd (√)	Evp'd (√)	Clean Up[2]	Color	Sample linked at:
1	MB	NA	NA	5		1L	1	√	√	NA	clear	NA
2	LCS			5		1L	1	√	√		clear	
3	LCSD			5		1L	1	√	√		clear	
4	~~MS~~ PVC0730-1		D	7		1L	1	√	√		clear	
5	~~MSD~~ PVC0731-1		D	7		1L	1	√	√		clear	
6	~~RLV~~ PVC0731-2		D	7		1L	1	√	√		blue/clear	
7	PVC0731-3		D	7		1L	1	√	√		clear	
8	PVC0731-4		D	7		1L	1	√	√		clear	
9	PVC0827-1		D	7		1L	1	√	√		clear	
10	PVC0827-2		D	7		1L	1	√	√		clear	
11	PVC0827-3		D	7		1L	1	√	√		clear	
12	PVC0827-4		D	7		880mL	1	√	√		clear	
13	PVC0827-5		D	7		1L	1	√	√		clear	
14	PVC0829-1		D	7		1L	1	√	√		clear	
15												
16												
17												
18												
19				a	3/16/11							
20												
21												
22												
23												
24												
25												

[1]Sample pH / Adjusted pH; [2]AW is Acid Wash, DW is DCM wash.

a = Acid Fraction, b = base/neutral fraction

X Insufficient Sample for MS/MSD ___ MS/MSD Designated ___ MS/MSD Chosen ___ Sample Container(s) Shaken & Rinsed with Solvent

Sample Extracts located in: Box# _____ Row(s) & Numbers _____ BNA Freezer X SVOA's Fridge _____

Comments: Line 6 ≈100µl immiscible blue. a 3-16-11

191 of 280

Reviewer Signature: _____ Date: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD

MODIFIED EPA 8270C

DATE: 01/05/11

Work Order: PUC0829-01

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-QAD-022, Rev. 0
Effective Date: 08/18/2008
Page No.: 1 of 1

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270 C	Instrument #: CCMS14
Analyst: C. Lauric	Analysis Date: 01-05-11	

Method name saved in the file: DIVXANE\010511.M

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9) 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   List of the analytes:
   Why?
5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst: C Lauric	Date: 1-5-11
	Reviewer: Jessica Breuhen	Date: 01/05/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-QAD-022, Rev. 1
Effective Date: 09/30/2010
Page No.: 1 of 1

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270C	Instrument #: GCMS14
Analyst: C. Lauric	Analysis Date: ~~2/25/11~~ 01/05/11 or 3/01/11	

Method name saved in the file: DIMANE\010511D.M

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
2. Did the calibration curve pass the method criteria? Y N
3. Were any points of the curve removed or replaced? Y N

   If yes, what points were removed or replaced: lowest middle highest

   Why?

4. Were any individual analyte points removed? Y N

   If yes, what points were removed or replaced: lowest middle highest

   List of the analytes:

   update due to RT shift.

   Why?

5. Circle the calibration model used (you may circle one or more)
   - ☐ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: Y N

Review Signatures:	Analyst: C Lauric	Date: 3/01/2011
	Reviewer: Jessica Brenhen	Date: 03/01/11

EPA 8270C Modified 1,4-Dioxane by Isotope Dilution, Extraction & GC/MS Analysis
Data Review Checklist (Example)

ANALYSIS DATE: 01-05-11

MEETS CRITERIA?

1. DFTPP (50ng) VERIFY MEETS CRITERIA EVERY 12 HOURS DIOXANE — Y / N
2. INITIAL CALIBRATION CURVE (MIN. 5 LEVELS) DATE: 01 05 11. M — Y / N
   - SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05 — Y / N
   - CCC 1,4-DICHLOROBENZENE < 30% RSD, 1,4-DIOXANE ≤ 20% RSD — Y / N
   - ALL OTHER COMPOUNDS < 15% RSD OR USE CURVE (r^2 > 0.990) — Y / N
   - TAILING FACTOR B/N BENZIDENE: 3.0 — Y / N
3. INITIAL CALIBRATION VERIFICATION (SEC. SOURCE) ANALYZED — Y / N
4. CONTINUING CALIBRATION CHECK (EVERY 12 HOURS)
   - SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05 — Y / N
   - CCC 1,4-DICHLOROBENZENE < 20% D; 1,4-DIOXANE ≤ 20% — Y / N
   - IS 1,4-DCB-d4 AREA –50% TO –100% TO MID-POINT IN I. CAL — Y / N
   - IS 1,4-DCB-d4 RT ± 30 SEC. TO MID-POINT IN INITIAL CALIB. — Y / N
   - TAILING FACTOR B/N BENZIDENE: 3.0 — Y / N
5. METHOD BLANK
   - ANALYZE ONE PER BATCH (< 20 SAMPLES) — Y / N
   - 1,4-DIOXANE MUST BE < REPORTING LIMIT — Y / N
6. LCS/LCSD WITHIN LIMITS
   - MUST BE ANALYZED PER 20 SAMPLES/BATCH — Y / N
   - % RECOVERY WITHIN 80 – 120% LIMITS — Y / N
   - RPD WITHIN LIMITS (≤ 25 RPD) — Y / N

Continued on next page

7. MS/MSD
   - MUST BE ANALYZED PER 20 SAMPLES/BATCH Y / N
   - % RECOVERY WITHIN 70 – 130% LIMITS Y / N
   - RPD WITHIN LIMITS (≤ 25 RPD) Y / N

8. SAMPLES
   - EXTRACTED WITHIN 7 DAYS OF SAMPLING Y / N
   - ANALYZED WITHIN 40 DAYS OF EXTRACTION Y / N
   - IS 1,4-DCB-d4 RT ± 30 SECs AND IS AREA –50% TO +100% TO CONT. CAL Y / N
   - SURROGATE RECOVERIES WITHIN LIMITS Y / N

9. TUNE INJECTED WITHIN 12hr TIME PERIOD Y / N

COMMENTS

ANALYST: DATE: 1-5-11

REVIEWER: DATE:

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.D
9 =01051114.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	----------ISTD----------										
2)	C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3)	I	1,4-Dichlorobenzen...	----------ISTD----------										
4)	C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5)	P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6)	S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

G 1.5-11

G 010511

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

update RT shift
on 2-28-11

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.D
9 =01051114.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	----------ISTD----------										
2)	C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3)	I	1,4-Dichlorobenzen...	----------ISTD----------										
4)	C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5)	P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6)	S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

3/01/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/11
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Jan 05 13:29 2011	Jan 05 12:20 2011	

1.5-11

010511.M Wed Jan 05 13:33:03 2011

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	R:\022511\02251108.D used to update due to RT shift

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/2011
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Feb 28 10:27 2011	Feb 28 10:27 2011	25 Feb 2011 6:23 pm

a 2/28/11

010511D.M Mon Feb 28 10:59:27 2011

3/30/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.975	1.000	A	1	A	B
2	C	1,4-Dioxane	88	3.028	1.018	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	6.092	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	6.104	1.002	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.422	1.054	A	1	A	B
6	S	Nitrobenzene-d5	82	6.557	1.076	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

)10511.M Wed Jan 05 13:33:14 2011

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.m

	CCV	**ICAL**			**PASS/FAIL**
	Response	Response	0.5X	2X	
Internal Standard					
1,4-Dichlorobenzene-d4	243008	243008	121504	486016	**PASS**

Internal Standard	RT	RT	-0.5min	+0.5min	
1,4-Dichlorobenzene-d4	6.09	6.09	5.59	6.59	**PASS**

update
a 1-5-11

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\

	NAME	RT	CCV RRT Value (Target/IS)	mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.975					
	1,4-Dioxane	3.028	1.0178	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	6.092					
	1,4-Dichlorobenzene	6.104	1.0019	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.422	1.0541	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.557	1.0763	1.0763	1.0163	1.1363	<-PASS

Update only.
Added in Revised
Review checklist for
1,4-Dioxane

a 3-09-11.

BB 3/9/11

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥010511.S
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥010511¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	01051101	DB5MS14	DCM
2)	Sample	2	01051102	DB5MS14	DCM
3)	Sample	3	01051103	DB5MS14	25ng tune pu00017
4)	Sample	4	01051104	DB5MS14	✓25ng TUNE PU00017 1-5-11
5)	Sample	5	01051105	DIOXANE	BLANK
6)	Sample	6	01051106	DIOXANE	0.5ug/mL PU00059
7)	Sample	7	01051107	DIOXANE	1.0ug/mL PU00060
8)	Sample	8	01051108	DIOXANE	2.0ug/mL PU00061
9)	Sample	9	01051109	DIOXANE	4.0ug/mL PU00062
10)	Sample	10	01051110	DIOXANE	10ug/mL PU00063
11)	Sample	11	01051111	DIOXANE	20ug/mL PU00064
12)	Sample	12	01051112	DIOXANE	30ug/mL PU00065
13)	Sample	13	01051113	DIOXANE	40ug/mL PU00066
14)	Sample	14	01051114	DIOXANE	100ug/mL PU0067
15)	Sample	15	01051115	DIOXANE	QCS10ug/mL PU00068 1-5-11
16)	Sample	1	01051116	DIOXANE	~~10ug/mL PU00063ccv~~ DCM
17)	Sample	2	01051117	DIOXANE	10ug/mL PU00063ccv
18)	Sample	3	01051118	DIOXANE	11A0067-BLK1
19)	Sample	4	01051119	DIOXANE	PTL1256-03RE1
20)	Sample	5	01051120	DIOXANE	PTL1256-04RE1
21)	Sample	6	01051121	DIOXANE	PTL1256-06RE1
22)	Sample	7	01051122	DIOXANE	PTL1256-07RE1
23)	Sample	8	01051123	DIOXANE	PTL1262-01RE1
24)	Sample	9	01051124	DIOXANE	PTL1262-02RE1
25)	Sample	10	01051125	DIOXANE	PTL1256-10
26)	Sample	11	01051126	DIOXANE	PTL1262-01
27)	Sample	12	01051127	DIOXANE	PTL1262-02

a 1/6/11

a 1-6-11

Sequence Reviewed By: a Date: 1-6-11

Date Analyzed: 1-6-11 Analyst: a Date Run: 1-5-11

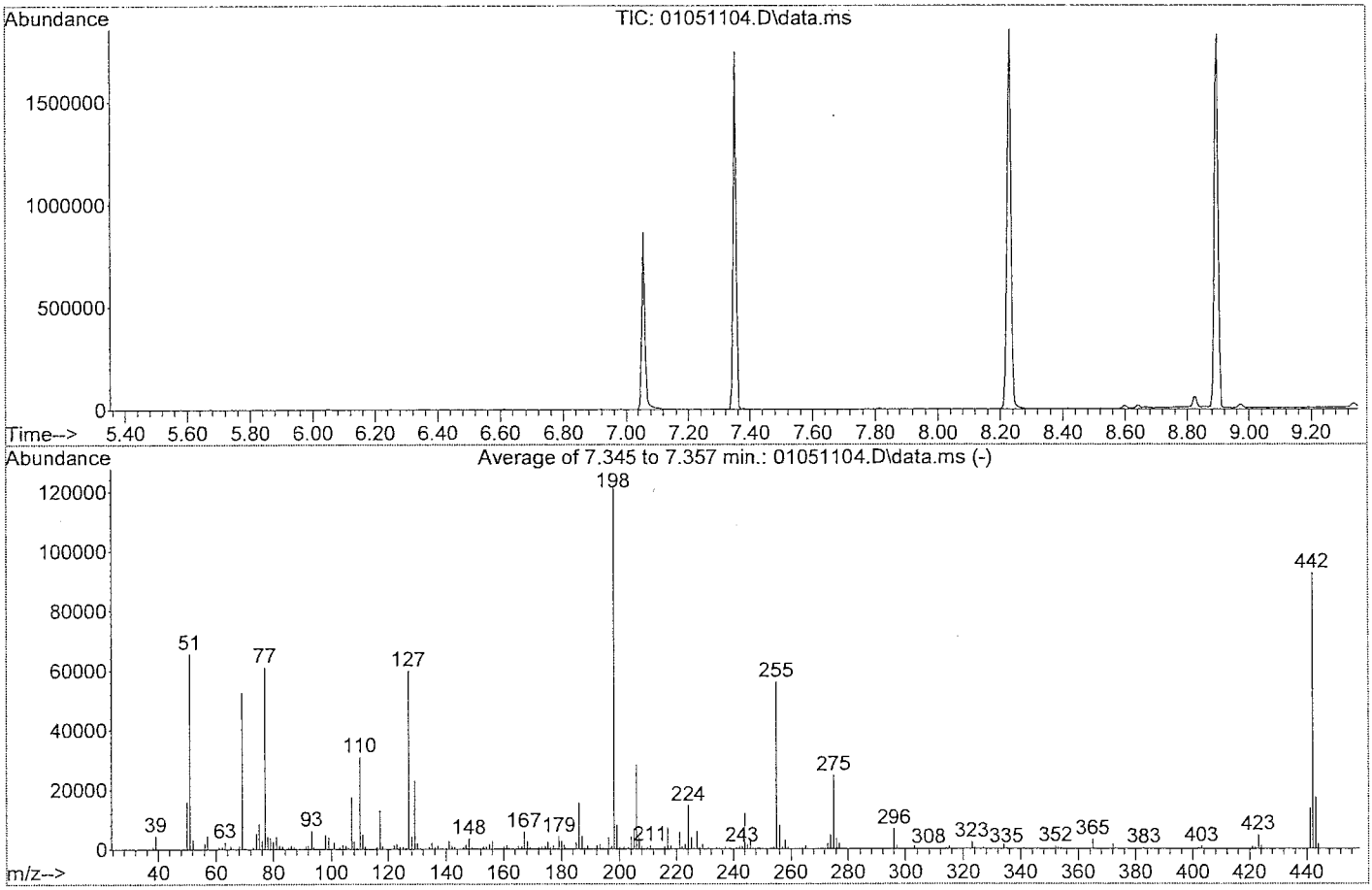
204 of 280

DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Fri Sep 10 17:23:33 2010



AutoFind: Scans 963, 964, 965; Background Corrected with Scan 958

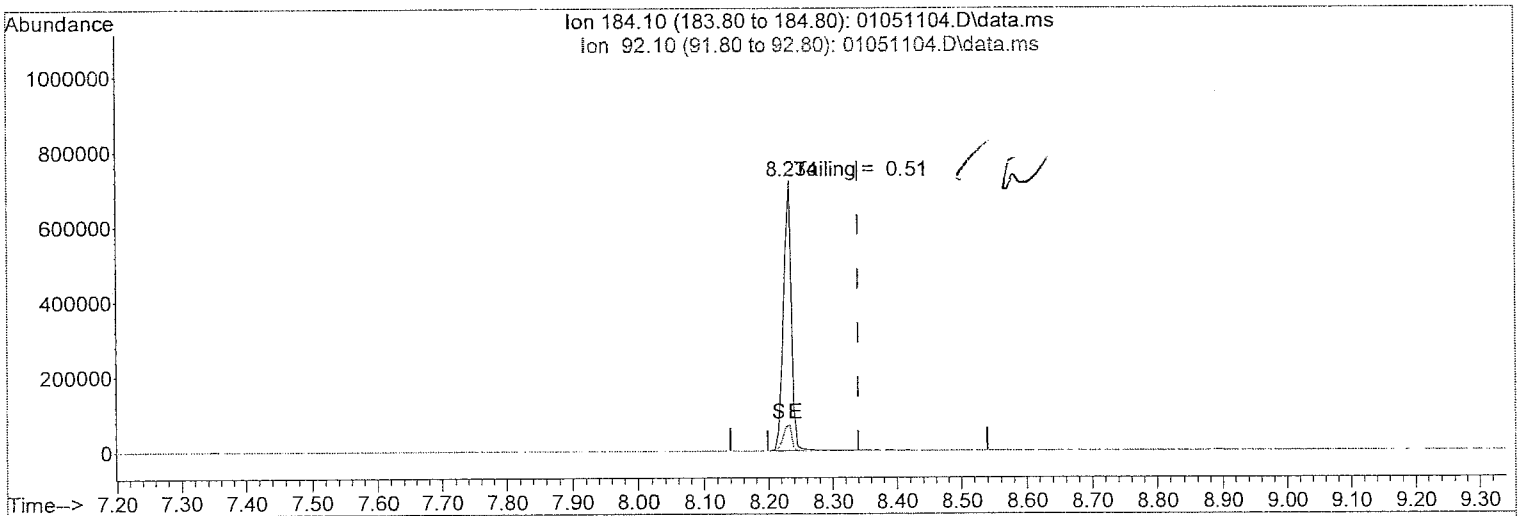
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.0	65567	PASS
68	69	0.00	2	1.8	948	PASS
69	198	0.00	100	43.2	52531	PASS
70	69	0.00	2	0.4	221	PASS
127	198	40	60	49.2	59789	PASS
197	198	0.00	1	0.7	889	PASS
198	198	100	100	100.0	121514	PASS
199	198	5	9	6.5	7948	PASS
275	198	10	30	20.3	24613	PASS
365	198	1	100	2.6	3102	PASS
441	443	0.01	100	78.5	13579	PASS
442	198	40	100	76.1	92525	PASS
443	442	17	23	18.7	17299	PASS

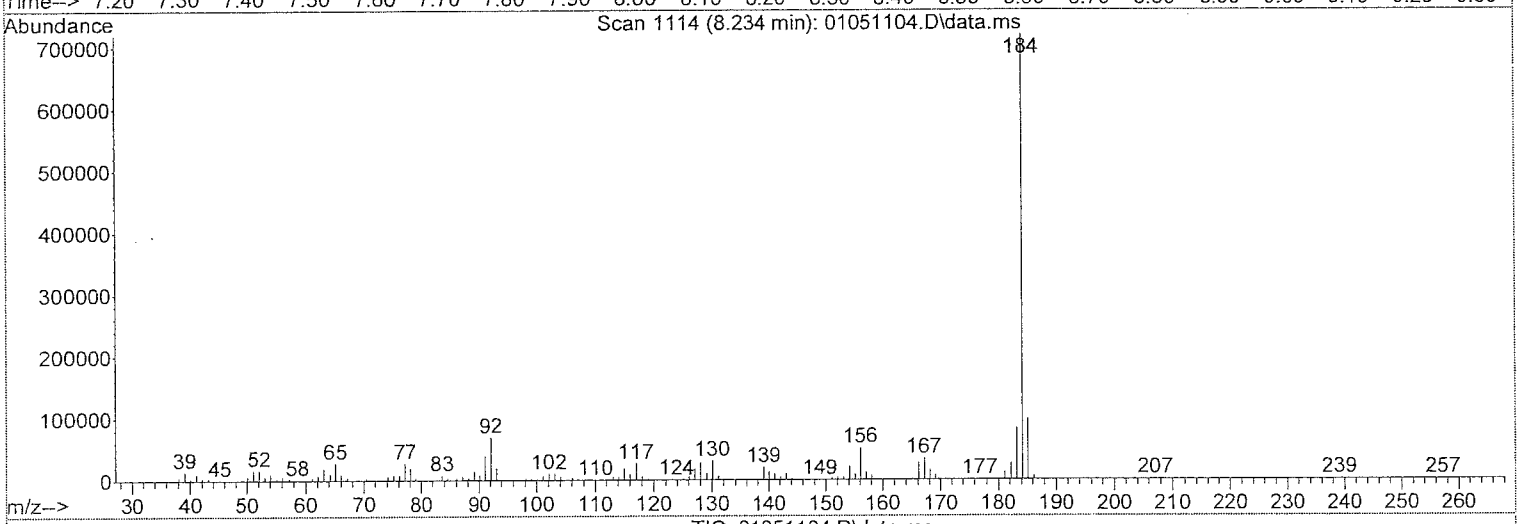
1.5.11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 11:46:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
QLast Update : Fri Sep 10 17:23:33 2010
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D





TIC: 01051104.D\data.ms

(2) Benzidine

8.234min (-0.106) 7.68

response 603050

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	300515	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	6.092	152	231052	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	0.000	82	0	0.00 ug/mL	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.999	88	49	0.00 ug/mL#	1
4) 1,4-Dichlorobenzene	6.092	146	306	0.01 ug/mL#	1

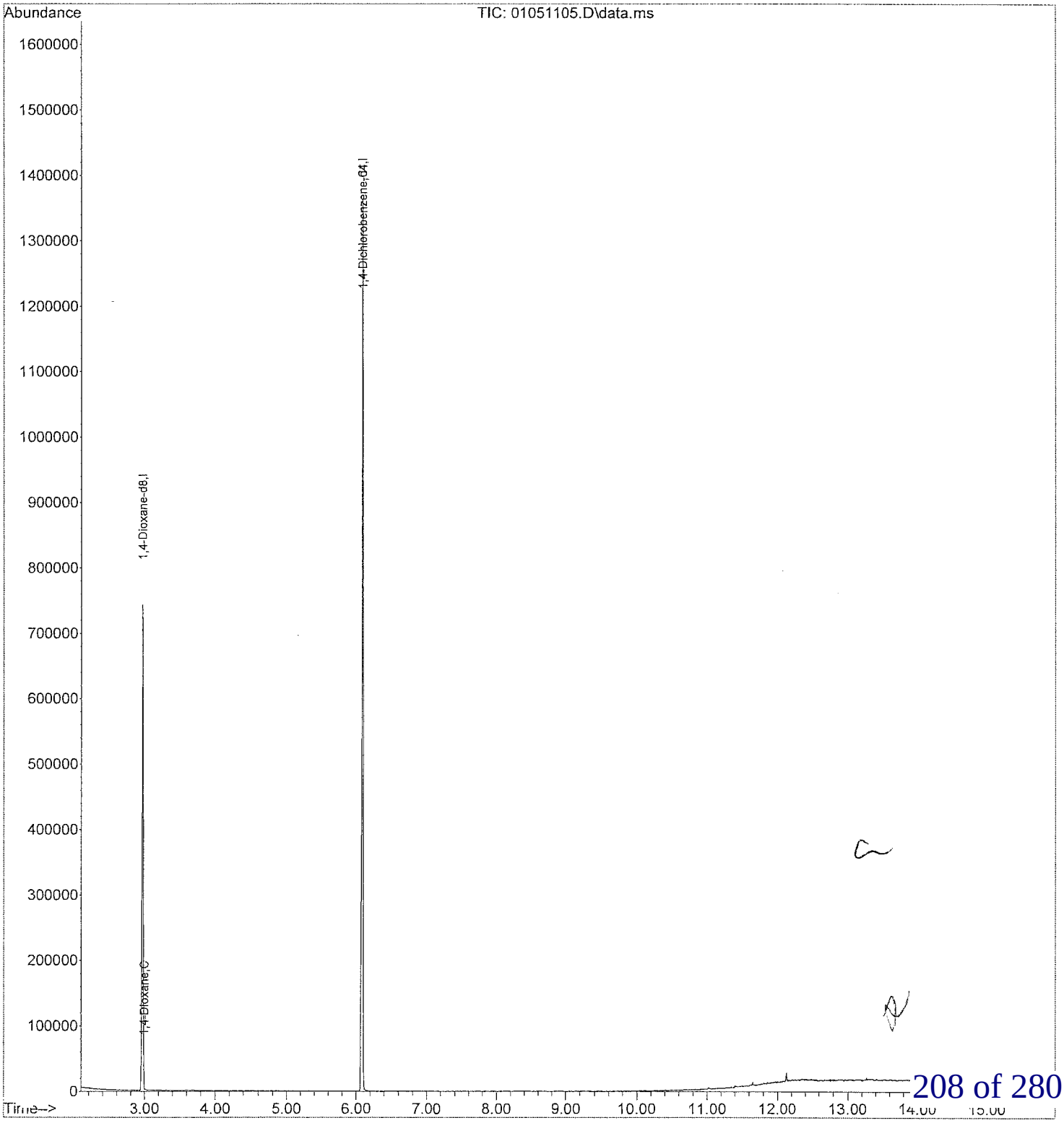
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01-5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

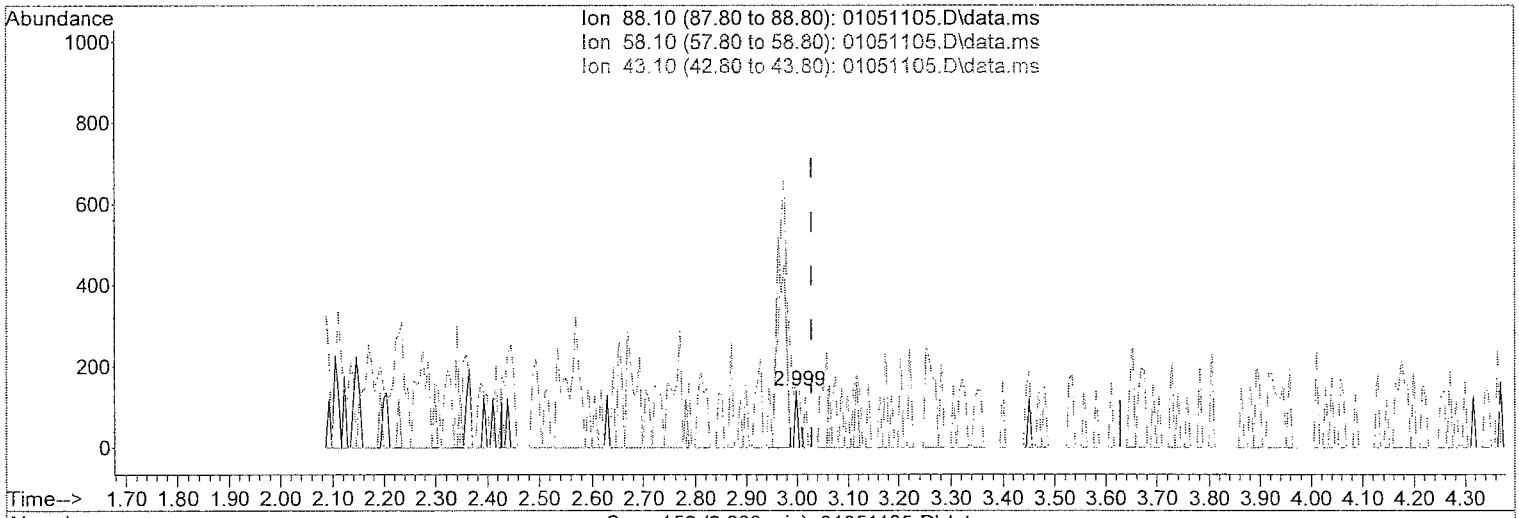
Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

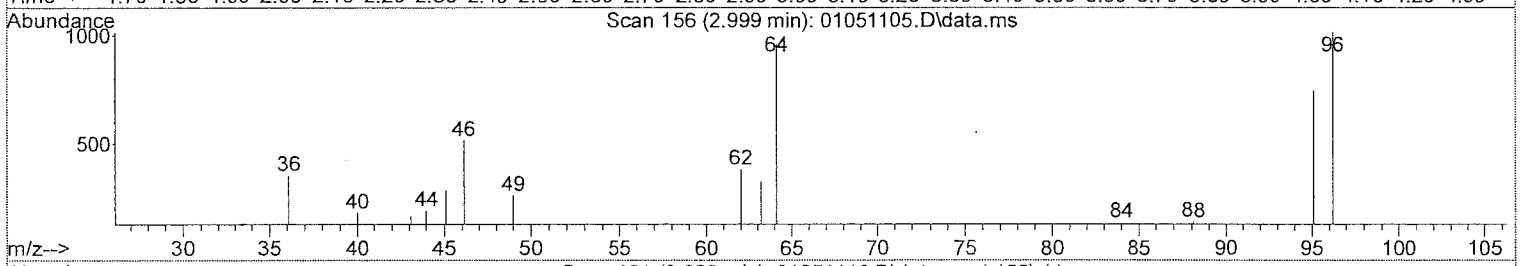


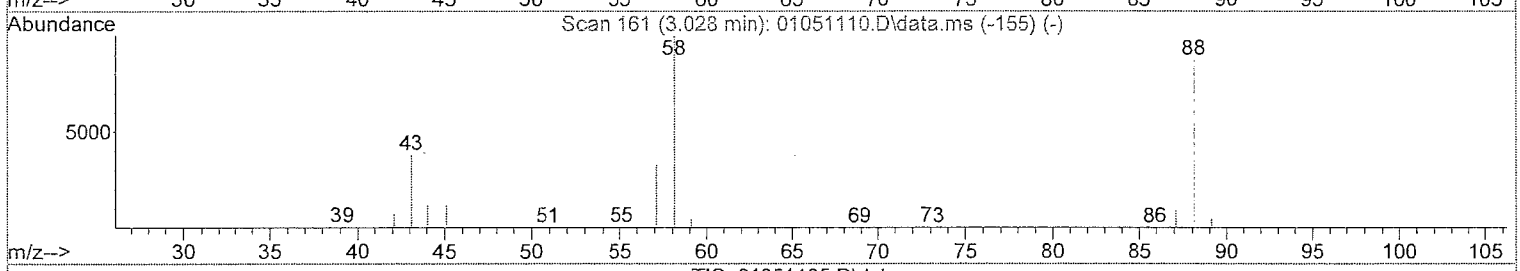
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration







TIC: 01051105.D\data.ms

(2) 1,4-Dioxane (C)

2.999min (-0.029) 0.00ug/mL

response 49

Ion	Exp%	Act%
88.10	100	100
58.10	97.60	1263.27#
43.10	39.30	2171.43#
0.00	0.00	0.00

ND ~1.5-11

S 010511

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Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.963	96	318261	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	240601	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	20080	0.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.016	88	7745	0.48 ug/mL	96
4) 1,4-Dichlorobenzene	6.104	146	19858	0.51 ug/mL	87
5) N-Nitrosodi-n-propylamine	6.422	70	12932	0.61 ug/mL	98

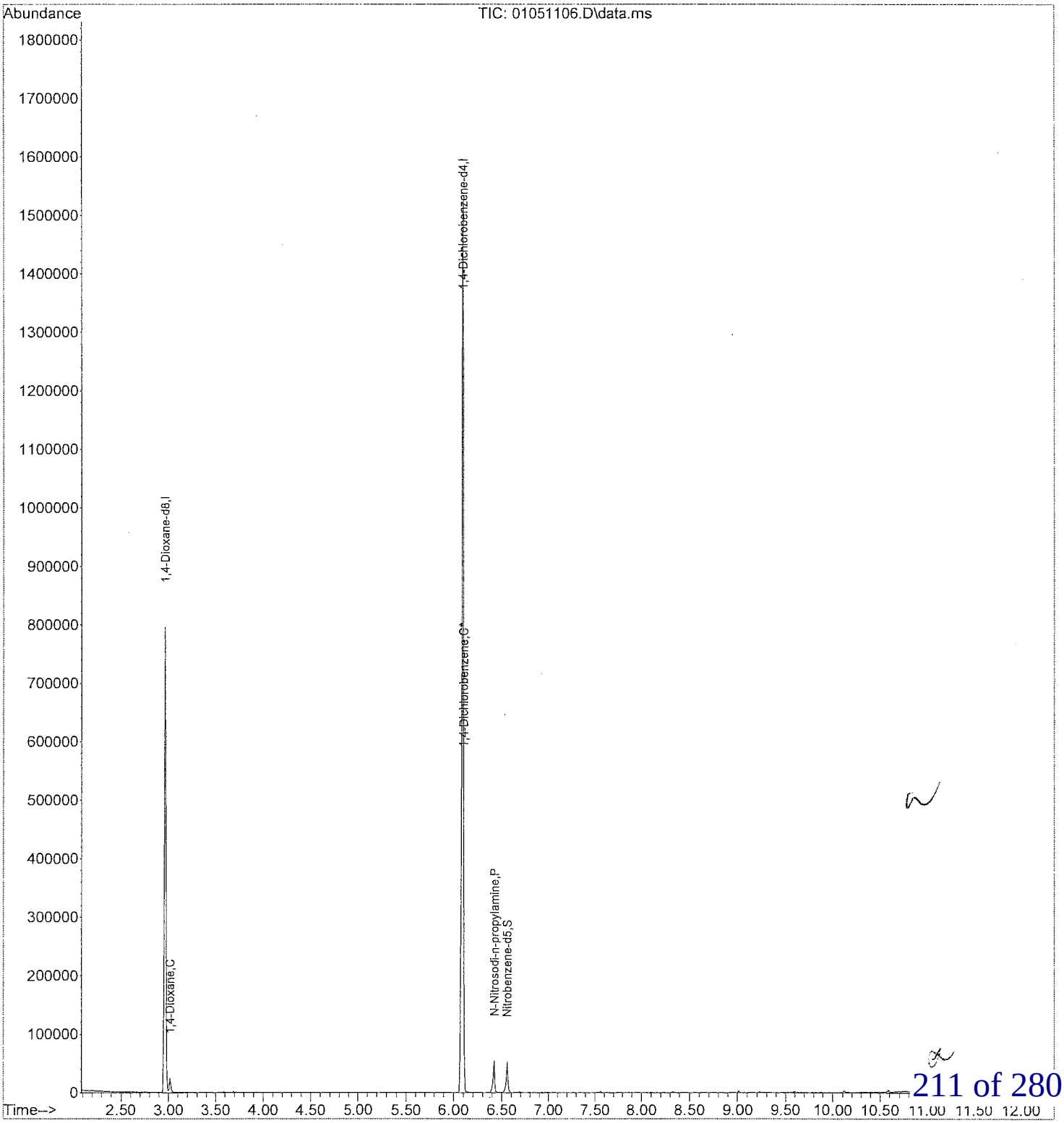
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01-5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	283387	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	213017	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	36439	1.28 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	14877	1.04 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	35480	1.03 ug/mL	95
5) N-Nitrosodi-n-propylamine	6.422	70	23862	1.28 ug/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

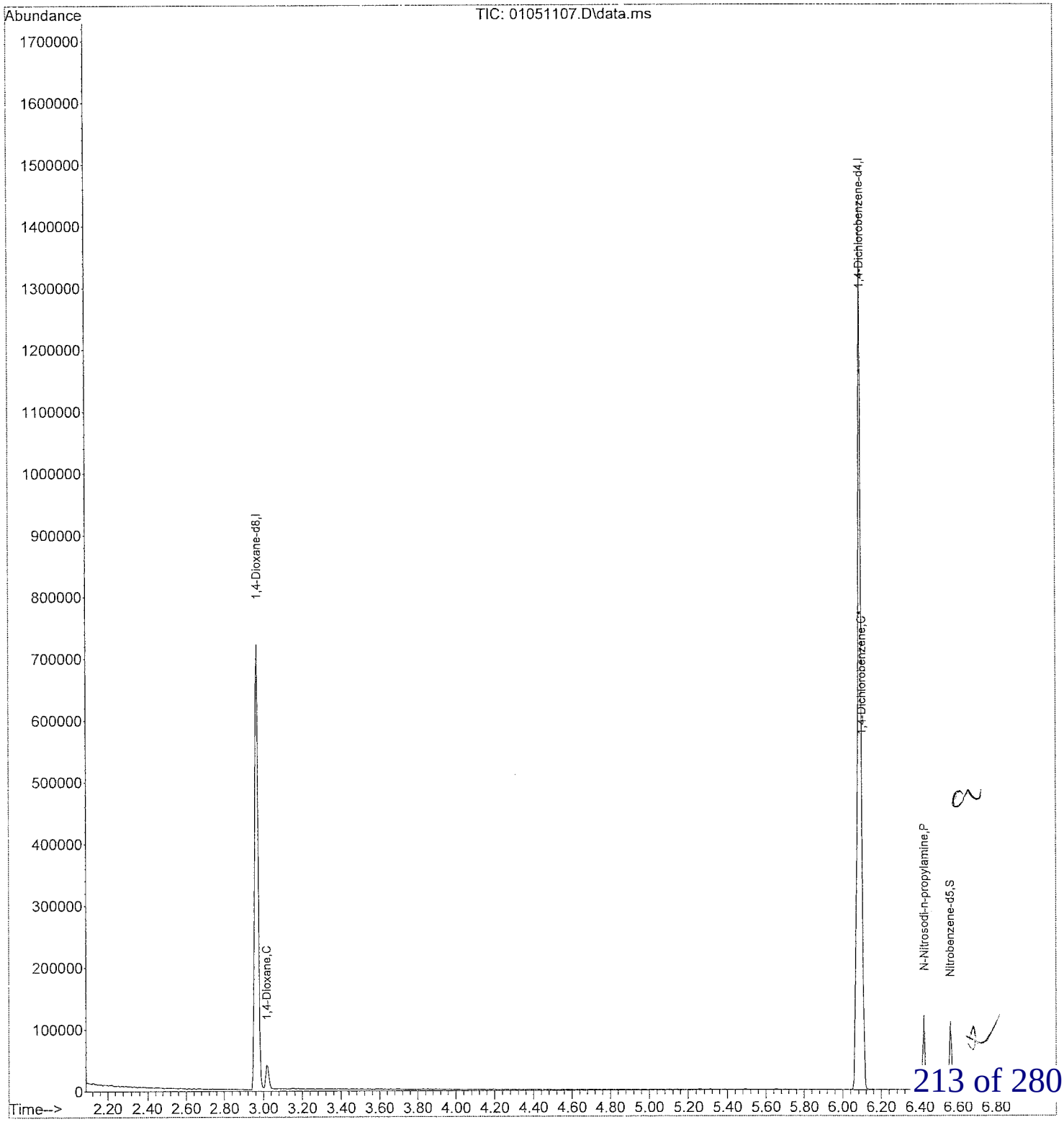
01-5-11

B1051

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



010511.M Wed Jan 05 11:45:18 2011 Page: 2

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	323796	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.087	152	240424	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	92526	2.87 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	34074	2.09 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	83920	2.15 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.416	70	59969	2.84 ug/mL	99

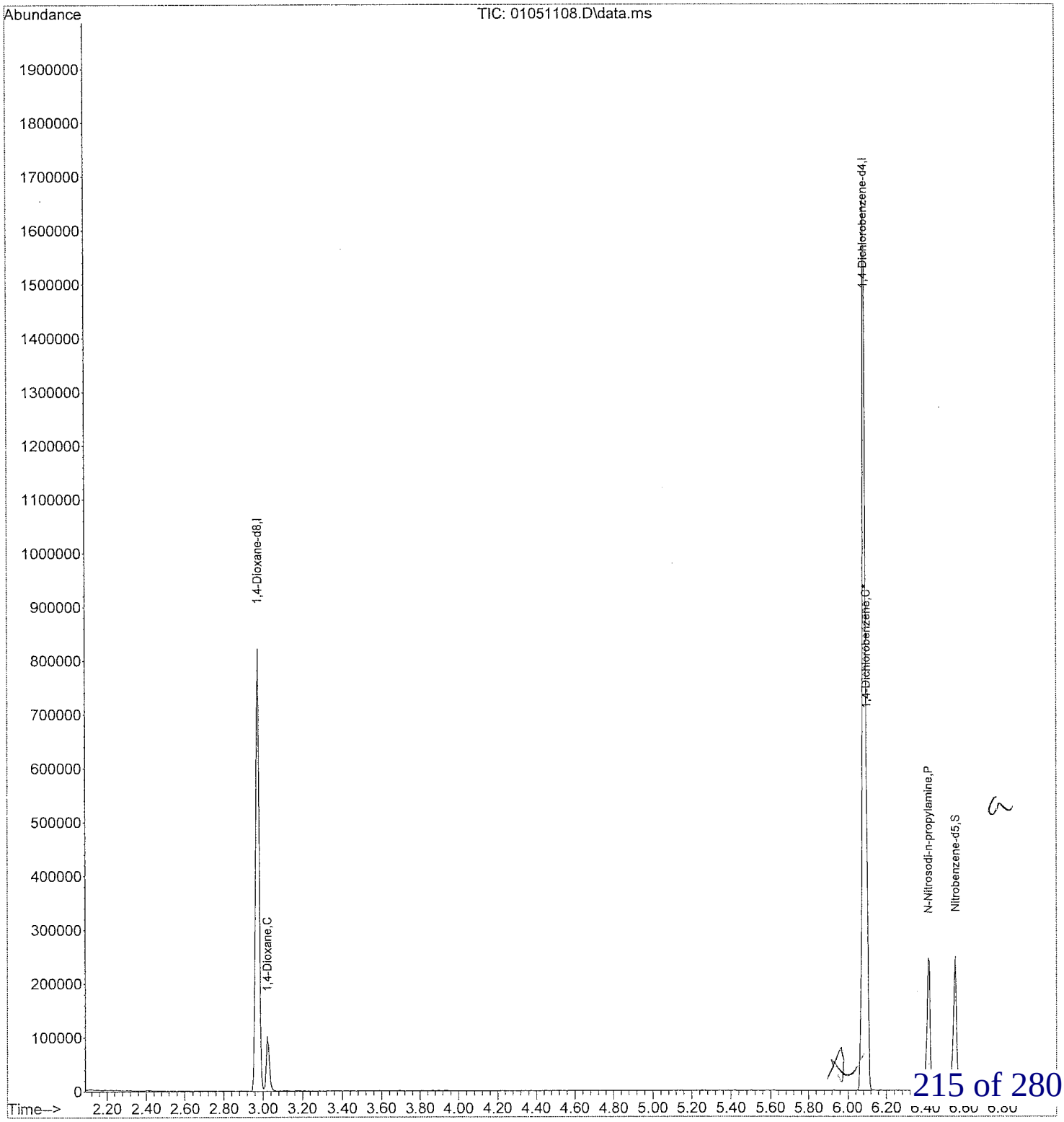
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.957	96	304589	20.00 ug/mL	0.01
3) 1,4-Dichlorobenzene-d4	6.092	152	229794	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	173101	5.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.004	88	65016	4.24 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	157766	4.23 ug/mL	98
5) N-Nitrosodi-n-propylamine	6.422	70	115445	5.73 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

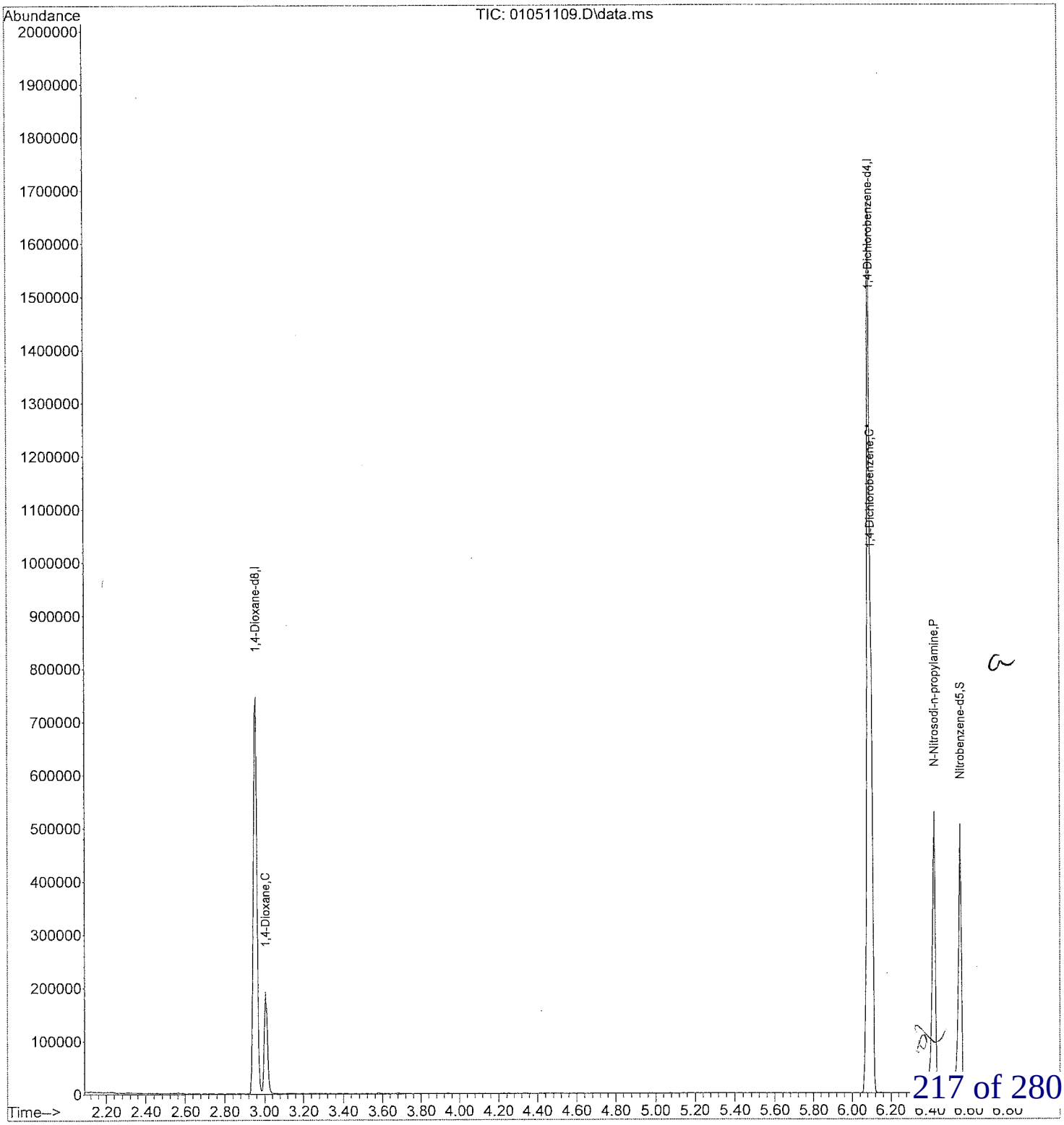
01.5.11

Final

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	326940	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	243008	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	454083	13.94 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.028	88	171569	10.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	404965	10.27 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.422	70	304989	14.31 ug/mL	100

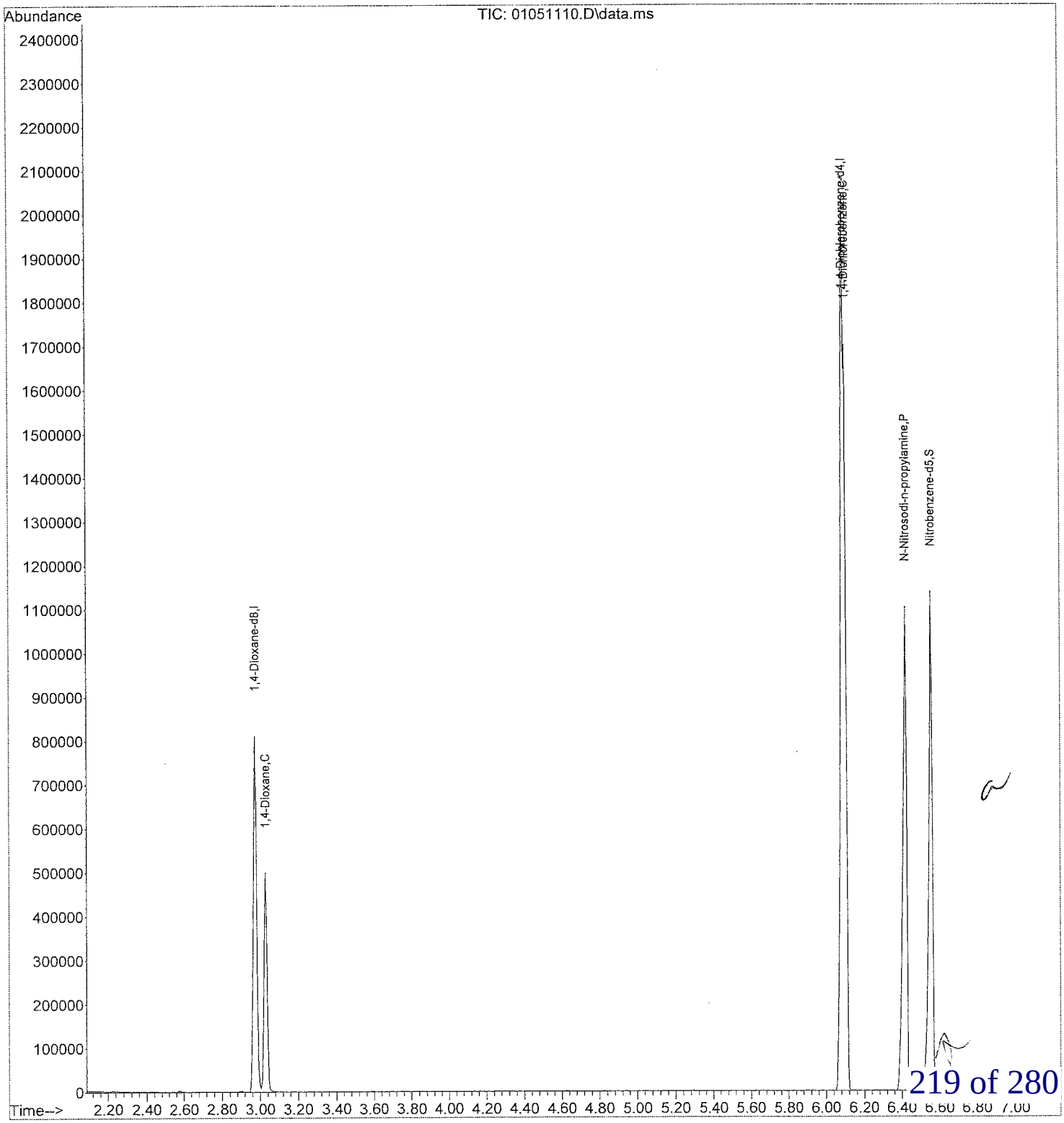
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.892	96	258958	20.00 ug/mL	-0.05
3) 1,4-Dichlorobenzene-d4	6.092	152	185062	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	670408	27.02 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.951	88	261828	20.07 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	613271	20.43 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	453173	27.92 ug/mL	99

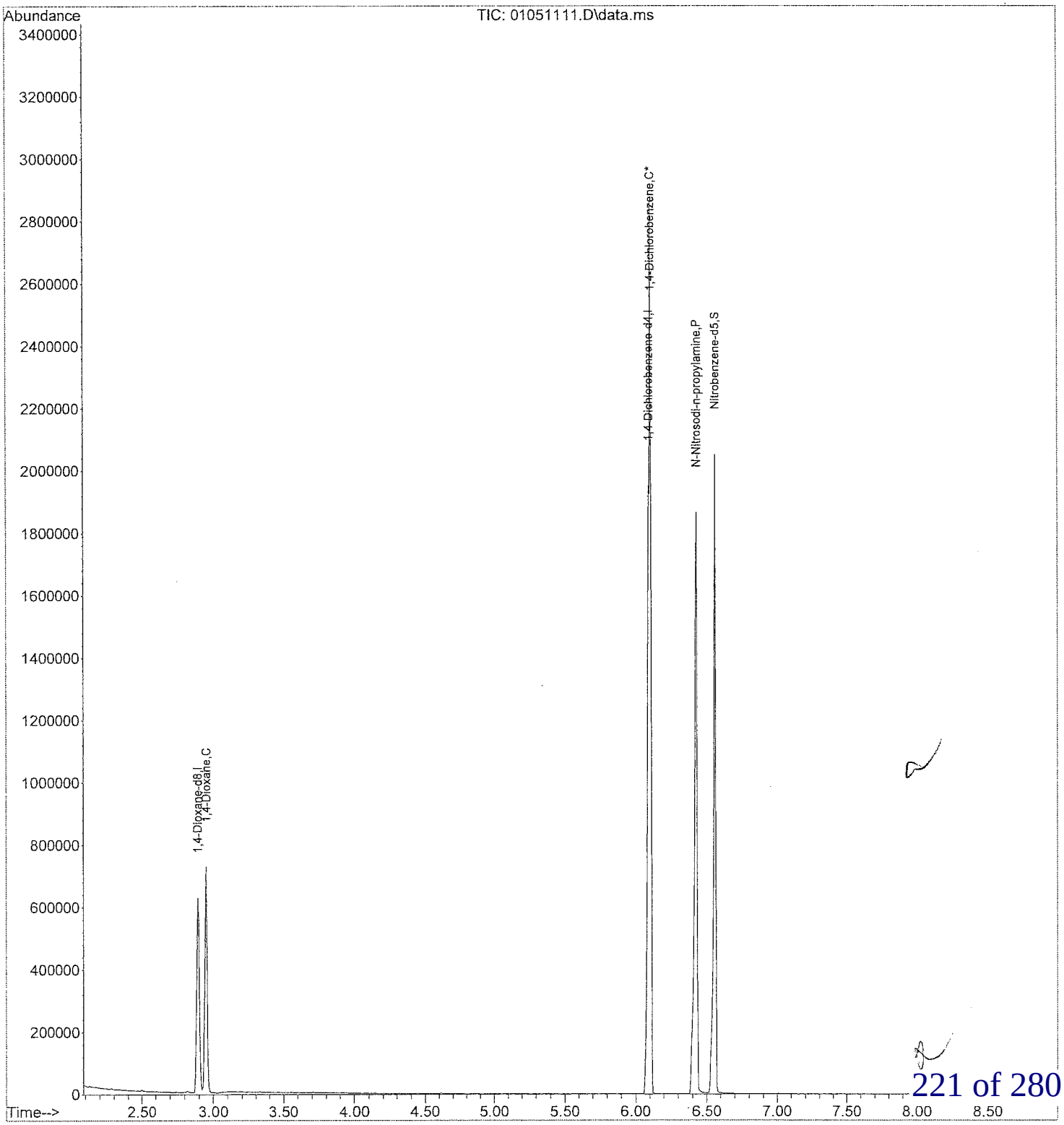
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	330882	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	235894	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	1276344	40.36 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.040	88	495415	29.72 ug/mL	98
4) 1,4-Dichlorobenzene	6.104	146	1137949	29.74 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	858130	41.47 ug/mL	99

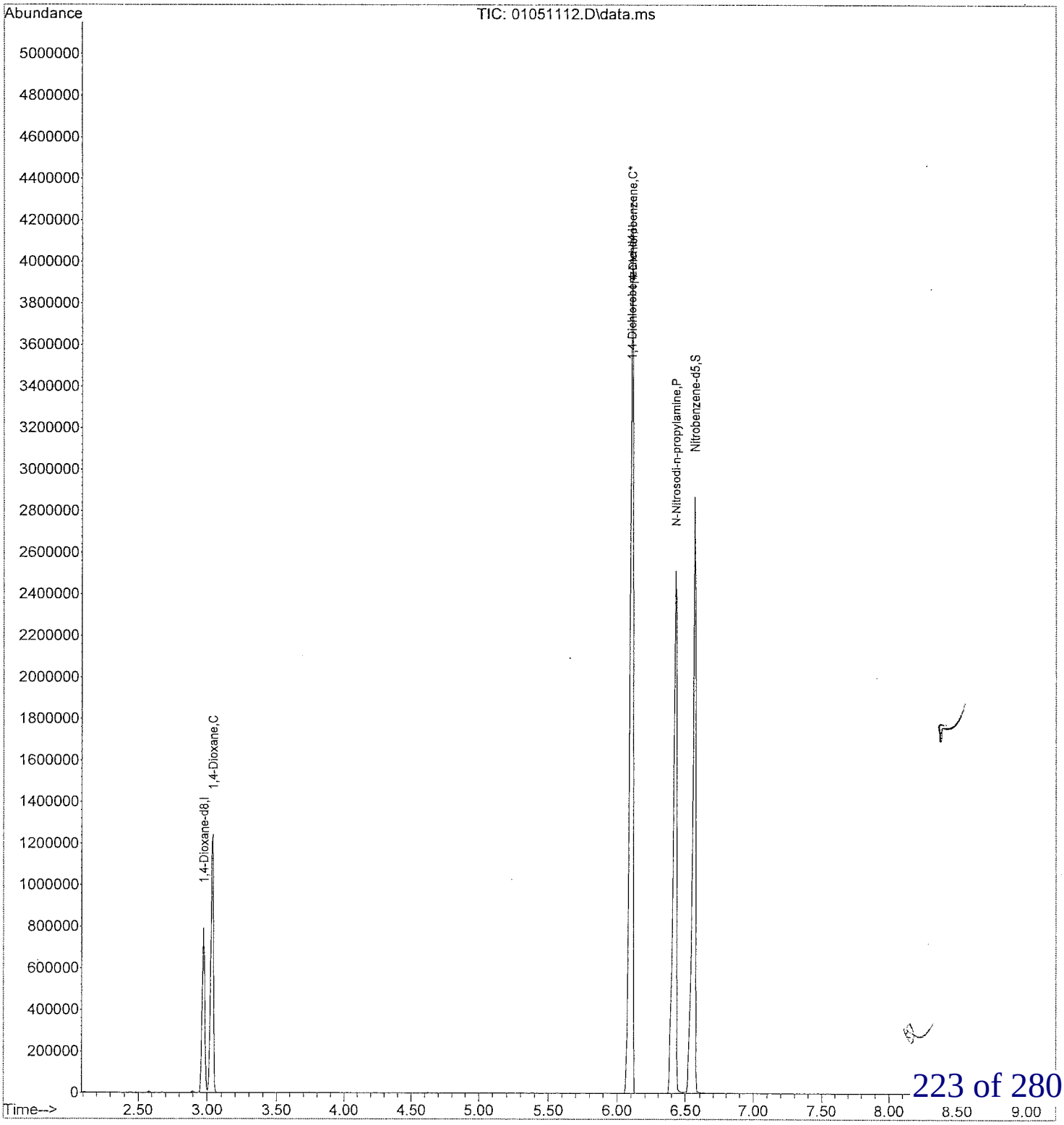
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.875	96	235570	20.00 ug/mL	-0.07
3) 1,4-Dichlorobenzene-d4	6.093	152	170137	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.569	82	1198475	52.55 ug/mL	0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.940	88	479723	40.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.110	146	1084666	39.30 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.434	70	813006	54.48 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.787	96	203549m	20.00 ug/mL	-0.16
3) 1,4-Dichlorobenzene-d4	6.092	152	140662	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.581	82	2386881	126.59 ug/mL	0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.863	88	957052m	93.33 ug/mL	
4) 1,4-Dichlorobenzene	6.110	146	2103702	92.19 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.451	70	1646696	133.46 ug/mL	99

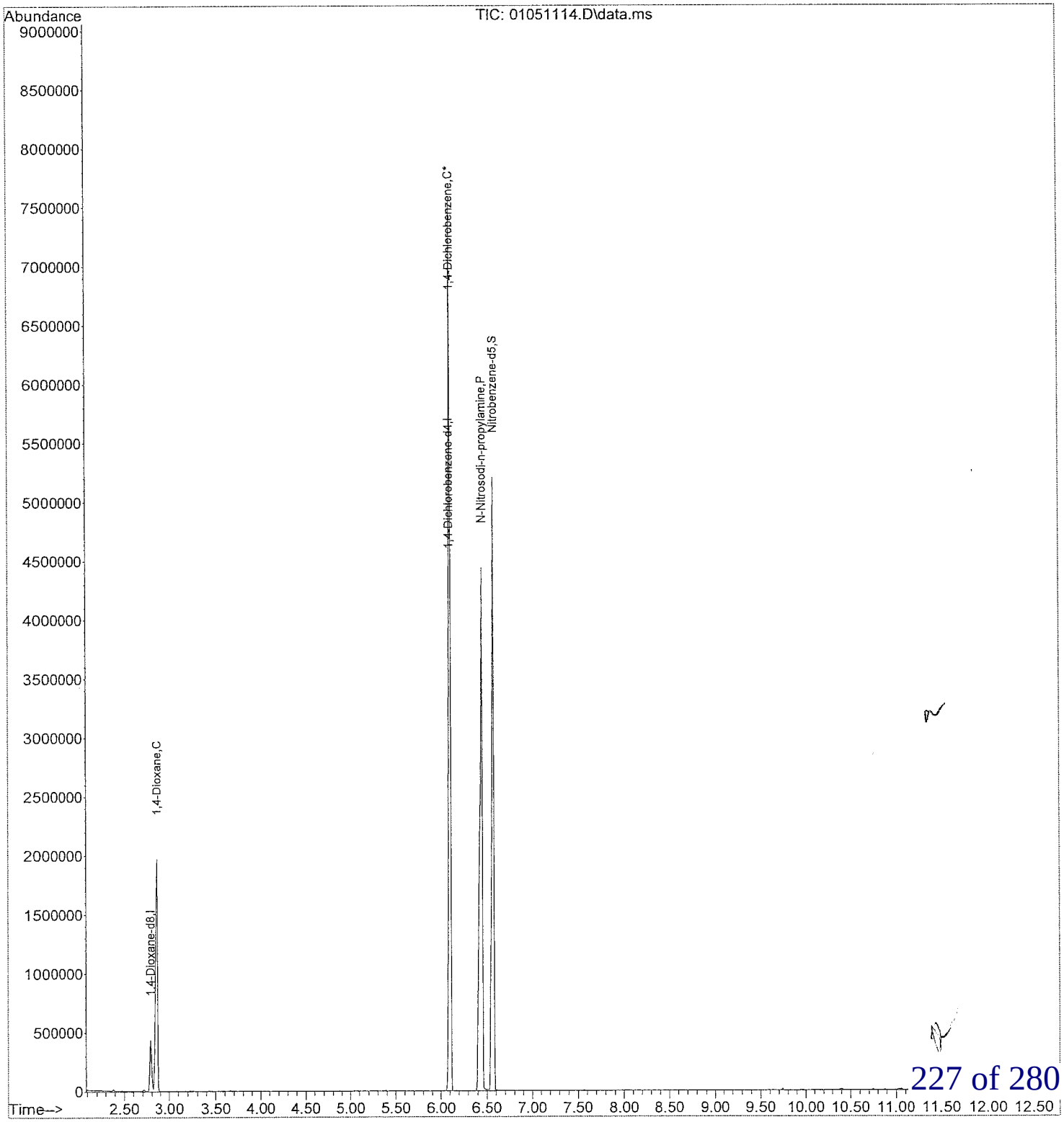
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

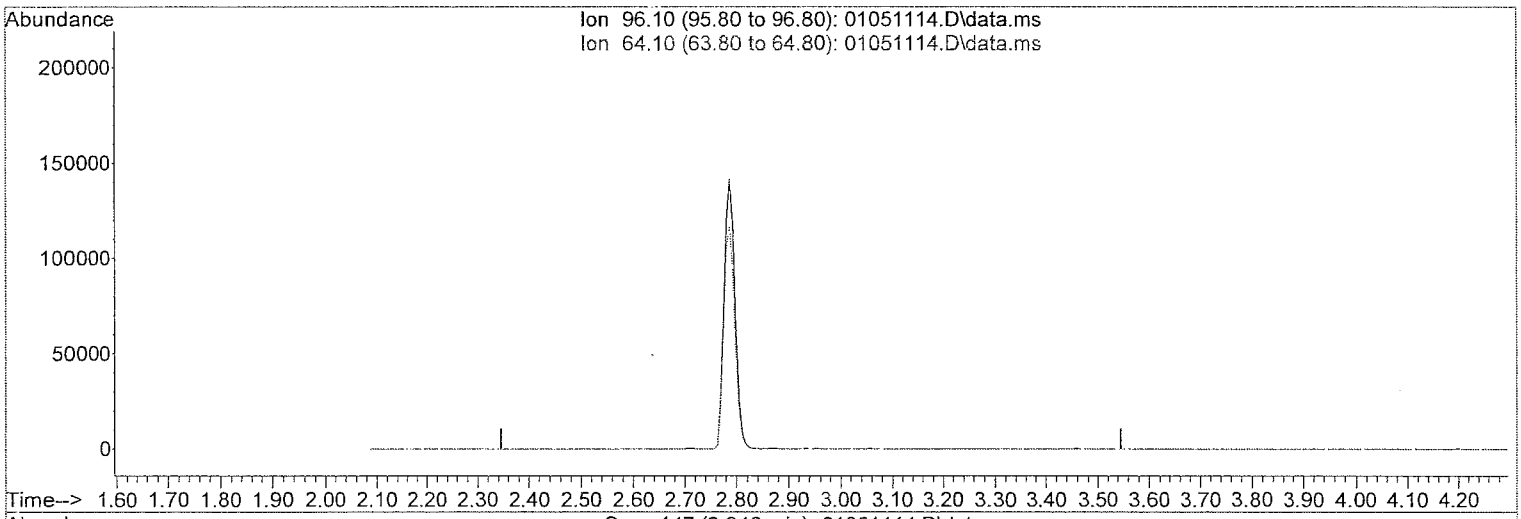
Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

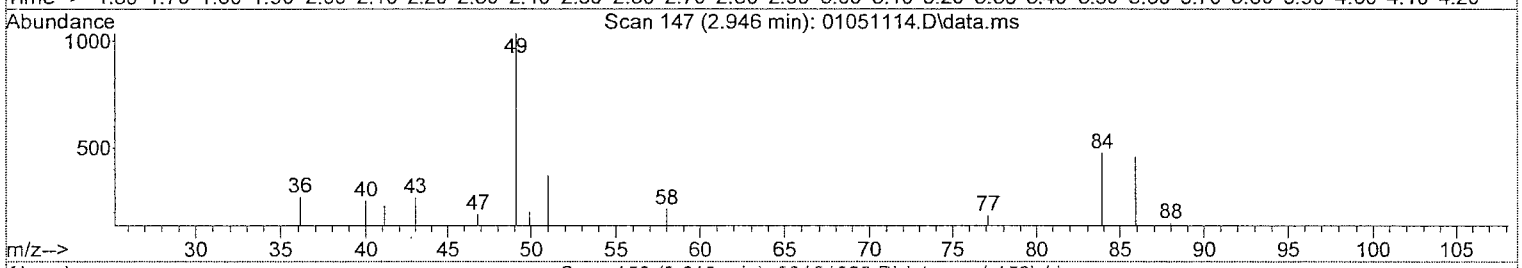


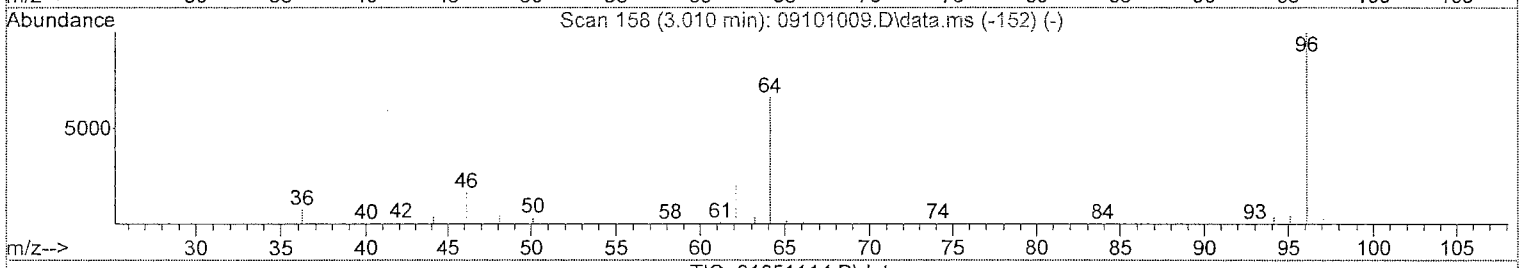
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

B

(1) 1,4-Dioxane-d8 (I)

2.946min (-2.946) 0.00ug/mL

response 0

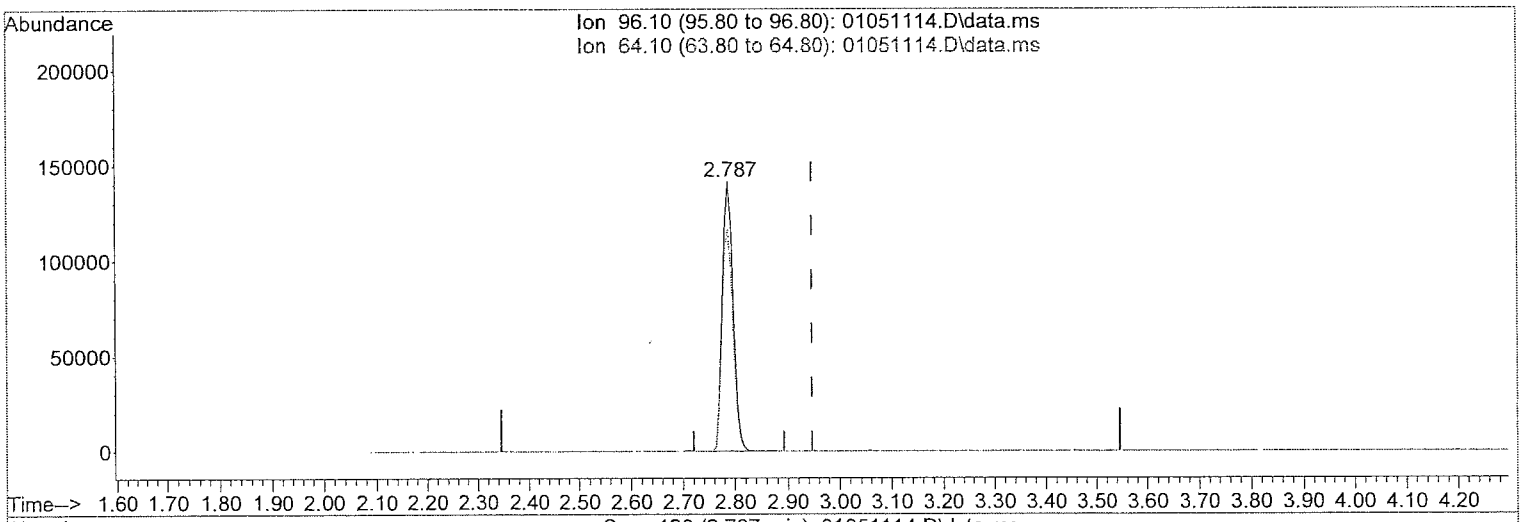
Ion	Exp%	Act%
96.10	100	0.00
64.10	83.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

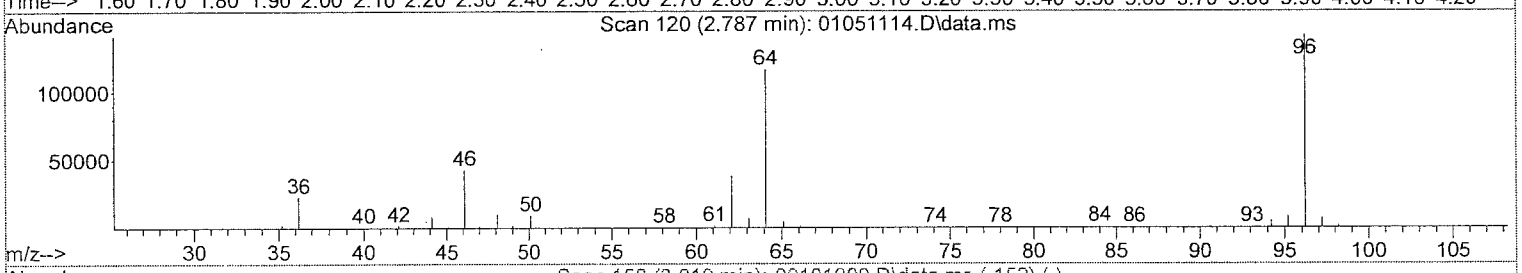
TD
01.5.11

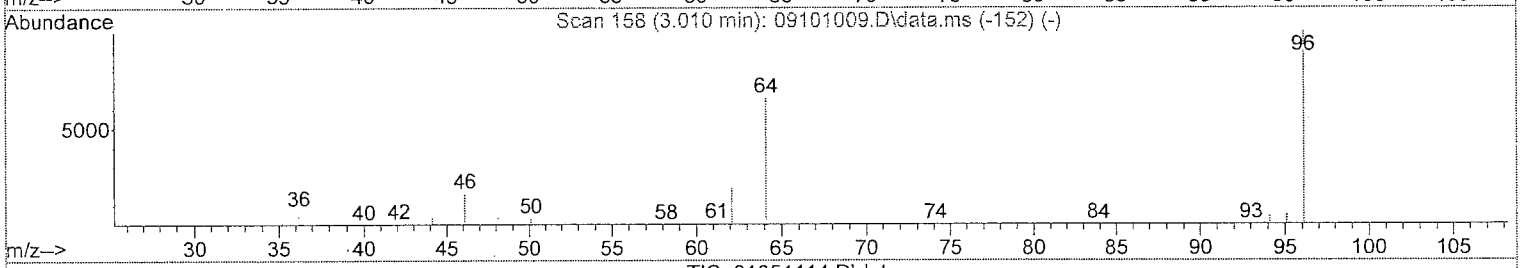
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.787min (-0.159) 20.00ug/mL m

response 203549

Ion	Exp%	Act%
96.10	100	100
64.10	83.80	83.74
0.00	0.00	0.00
0.00	0.00	0.00

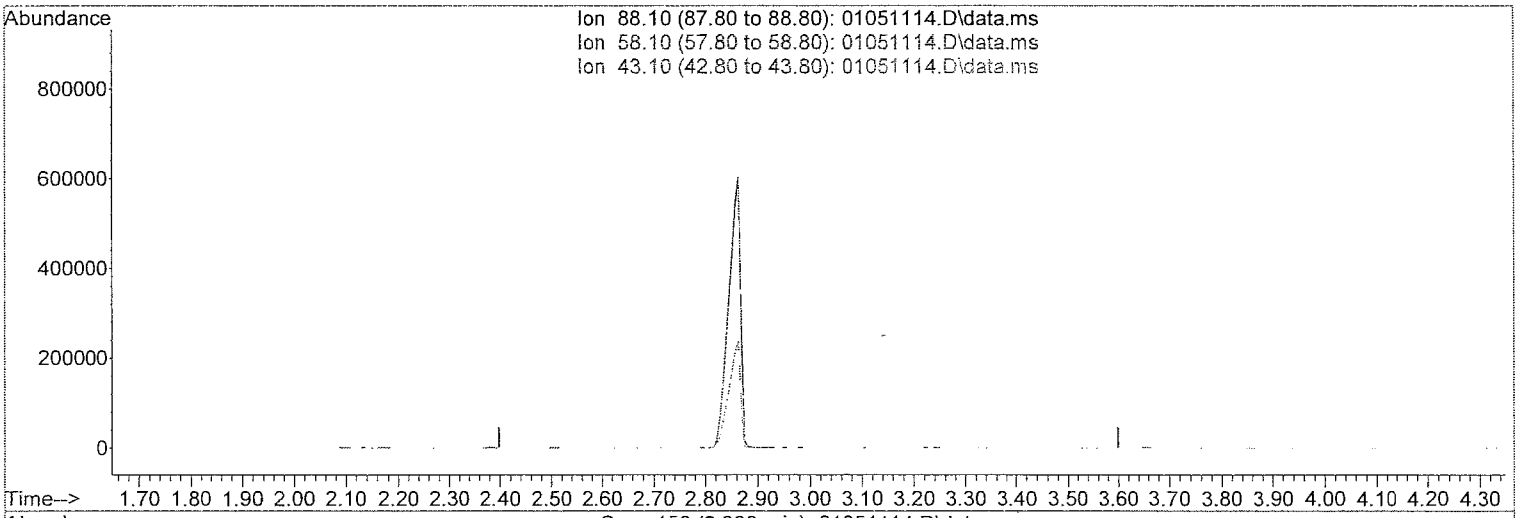
A

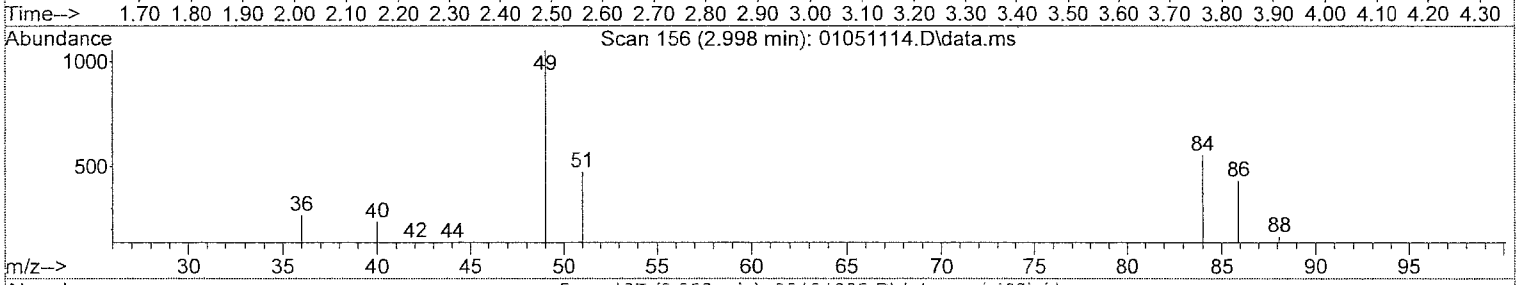
1-5-11

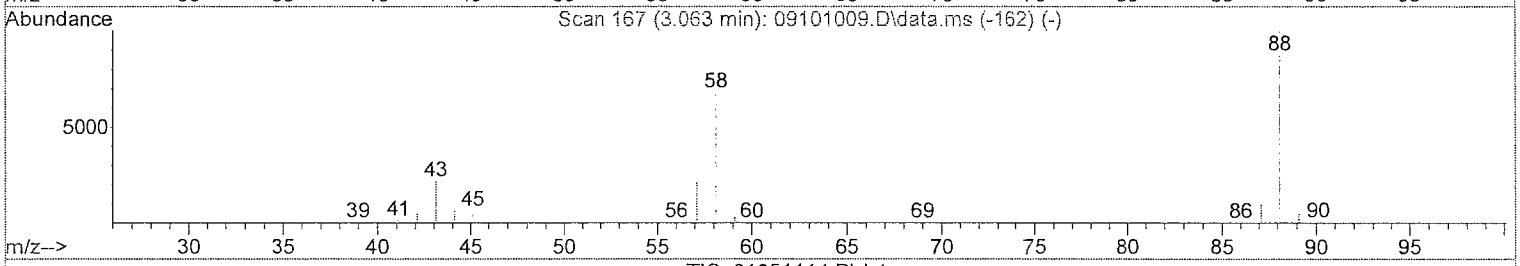
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

B

(2) 1,4-Dioxane (C)

ID

2.998min (-2.998) 0.00ug/mL

response 0

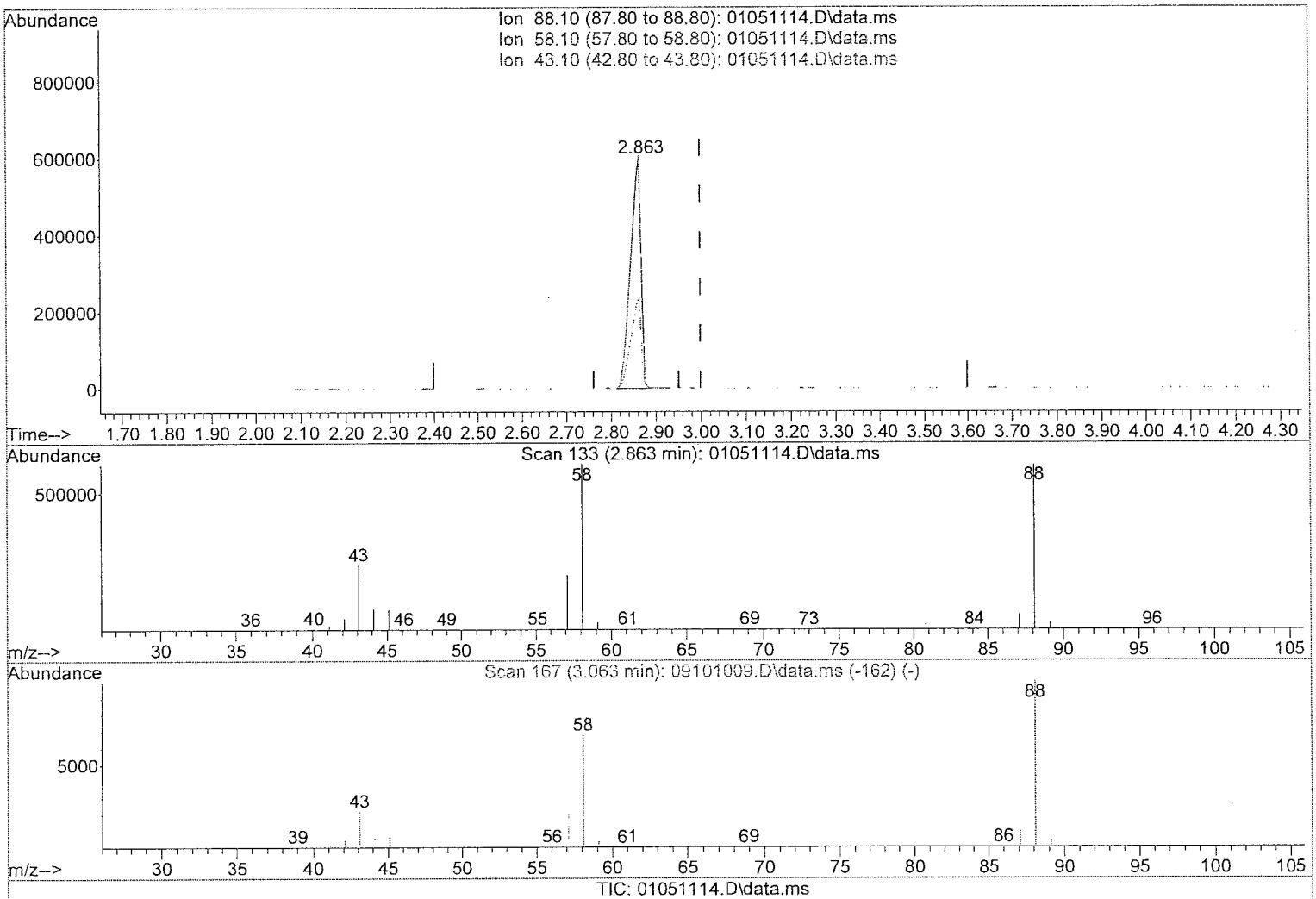
Ion	Exp%	Act%
88.10	100	0.00
58.10	97.70	0.00#
43.10	38.10	0.00#
0.00	0.00	0.00

a1.5.11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.863min (-0.135) 93.33ug/mL m

response 957052

Ion	Exp%	Act%
88.10	100	100
58.10	97.70	100.08
43.10	38.10	38.93
0.00	0.00	0.00

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.946	96	322333	20.00 ug/mL	-0.03
3) 1,4-Dichlorobenzene-d4	6.086	152	233788	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	43	0.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.998	88	165372	10.08 ug/mL	98
4) 1,4-Dichlorobenzene	6.081	146	386	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

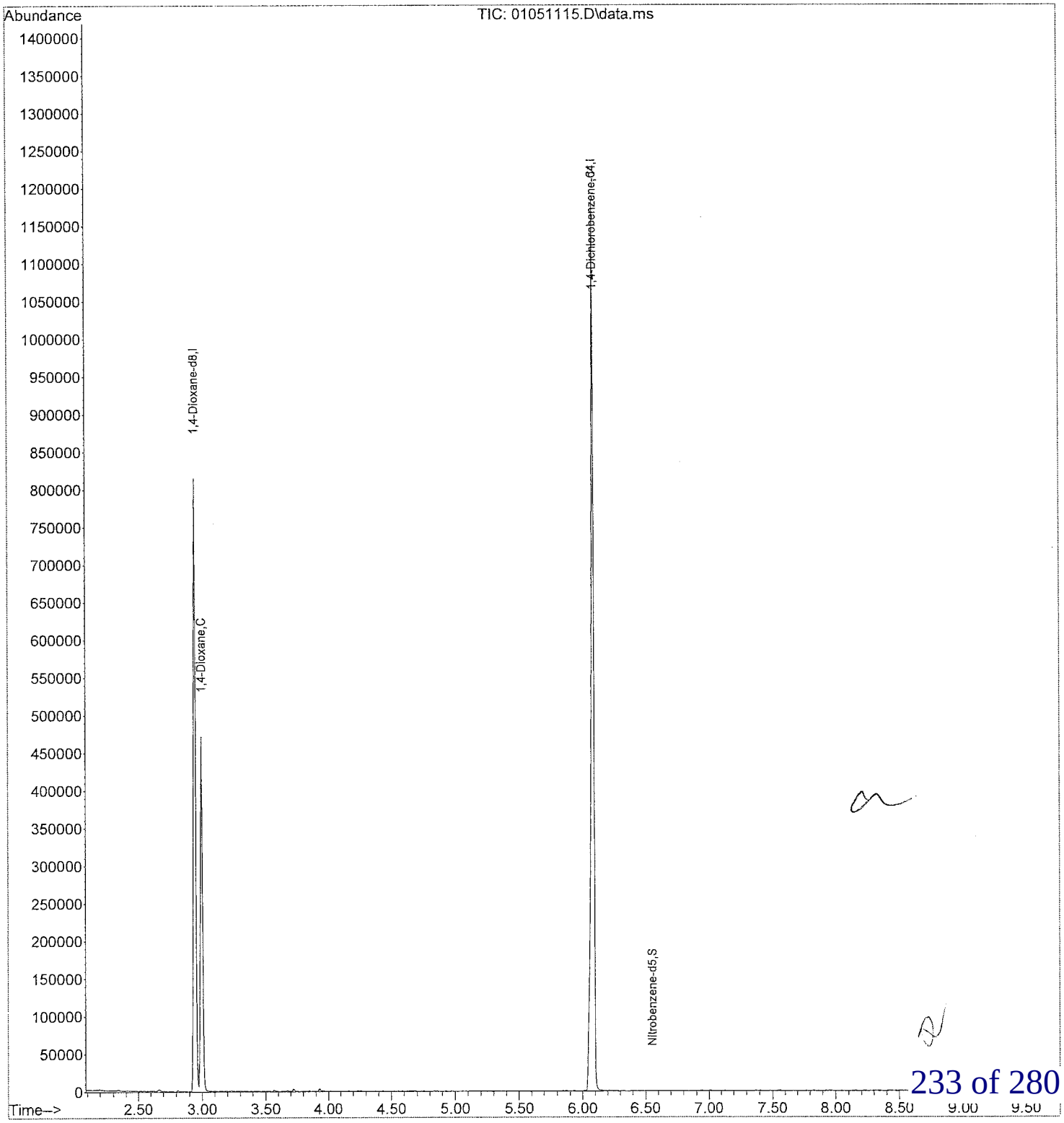
100.8 %

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: EPA 8270C

DATE: 03/16/11

WORK ORDER: PUC0829-01

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-SVD-014, R.1
Effective Date: 01/18/2011
Page No.: 1 of 1

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C. Lamm	Batch ID# 11C0526	Date Analyzed: 3/16/11

	Description	Yes	No	NA[1]
1.	Tune 3:45 PM 3-16-11			
-	DFTPP (~~50~~ 75 ng) meets method criteria?	✓		
-	Tailing – Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?	✓		
2.	Calibration Curve (minimum of 5 levels)	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	CCC 1,4-Dichlorobenzene ≤30%	✓		
-	All compounds RSD ≤20% or linear/quadratic $r^2 \geq 0.99$	✓		
-	QCS recovered ± 30%	✓		
-	Date of Initial Calibration: 010511D Instrument: GCMS14			
3.	Retention Times Updated?		✓	
4.	CCVs all analytes ~~recovered~~ within ± 20% (includes CCC 1, 4-Dichlorobenzene)?	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	Internal Standard RT ± 0.5 min. from 10 ~~ppb~~ ug/mL std. in ICAL?	✓		
-	Internal Standard Areas -50% to +100 ~~200~~% of 10 ~~ppb~~ ug/mL std. in ICAL?	✓		
-	Analyte RRTs ± 0.06 from 10 ug/mL ~~50ppb~~ std. in ICAL?	✓		
5.	Method Blank extracted with batch?	✓		
-	All target analytes recovered <RL?	✓		
6.	LCS/LCSD extracted with batch?	✓		
-	Recoveries within Laboratory Limits?	✓		
-	RPDs ≤ Laboratory Limits?	✓		
7.	MS/MSD extracted with batch?			
-	Recoveries within Historical Limits?			
-	RPDs Laboratory Limits?			
8.	Samples extracted within 7 days from collection?	✓		
-	Samples analyzed within 40 days from extraction?	✓		
-	Internal Standard RT ± 0.5 min. from CCV?	✓		
-	Internal Standard Areas -50% to +100 ~~200~~% of 10 ug/mL ~~ppb~~ std. in ICAL?	✓		
-	Maximum of 20 samples in batch?	✓		
-	Surrogate recoveries within Historical Limits?	✓		

Comments: IS Element ID(s): PT02037 (1,4-DCB-d4)

see RE

Review Signatures:	Analyst: C. Lamm	Date: 3/21/11
	Reviewer: Amy L Lemunsk	Date: 3/21/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥031611.S
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	03161101	DB5MS14	DCM
2)	Sample	2	03161102	DB5MS14	DCM
3)	Sample	3	03161103	DB5MS14	DCM
4)	Sample	4	03161104	DB5MS14	25ng tune std pu01447
5)	Sample	5	03161105	DIOXANE	DCM
6)	Sample	6	03161106	DIOXANE	10ug/mL 14-diox-01520
7)	Sample	7	03161107	DIOXANE	DCM
8)	Sample	8	03161108	DIOXANE	11C0526-BLK1
9)	Sample	9	03161109	DIOXANE	11C0526-BS1
10)	Sample	10	03161110	DIOXANE	11C0526-BSD1
11)	Sample	11	03161111	DIOXANE	PUC0730-01
12)	Sample	12	03161112	DIOXANE	PUC0731-01
13)	Sample	13	03161113	DIOXANE	PUC0731-02
14)	Sample	14	03161114	DIOXANE	PUC0731-03
15)	Sample	15	03161115	DIOXANE	PUC0731-04
16)	Sample	16	03161116	DIOXANE	PUC0827-01
17)	Sample	17	03161117	DIOXANE	PUC0827-02
18)	Sample	18	03161118	DIOXANE	PUC0827-03
19)	Sample	19	03161119	DIOXANE	PUC0827-04
20)	Sample	20	03161120	DIOXANE	PUC0827-05
21)	Sample	21	03161121	DIOXANE	PUC0829-01
22)	Sample	22	03161122	DIOXANE	DCM
23)	Sample	23	03161123	DIOXANE	DCM

a 3/17/11

a 3/17/11

Sequence Reviewed By: a Date: 3/17/11

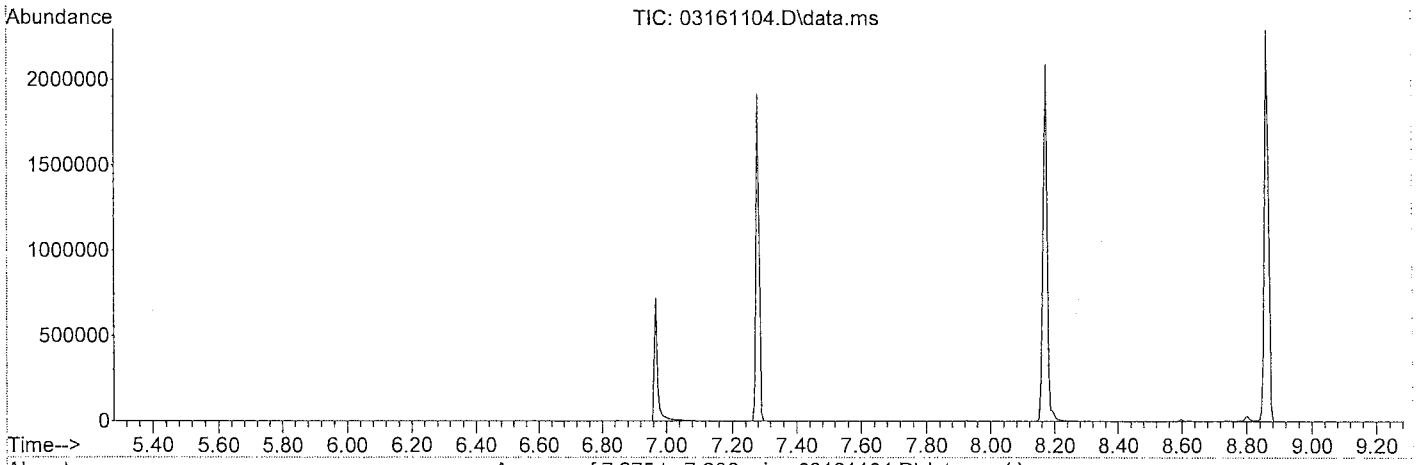
Date Analyzed: 3/17/11 Analyst: a Date Run: 3-16-

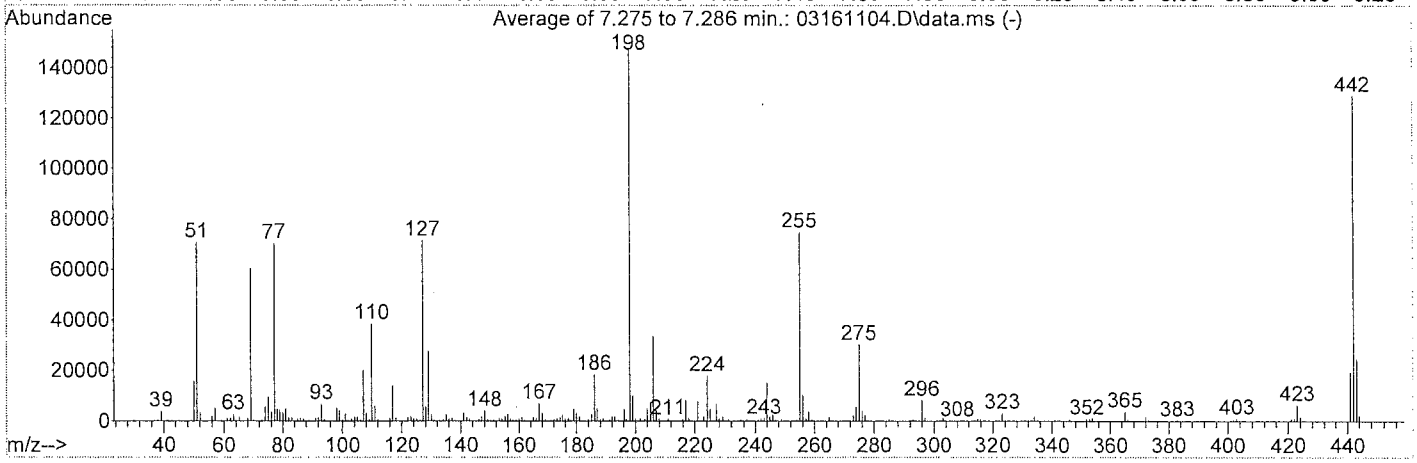
DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161104.D
Acq On : 16 Mar 2011 3:45 pm
Operator : CL
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Thu Feb 17 11:44:41 2011





AutoFind: Scans 951, 952, 953; Background Corrected with Scan 946

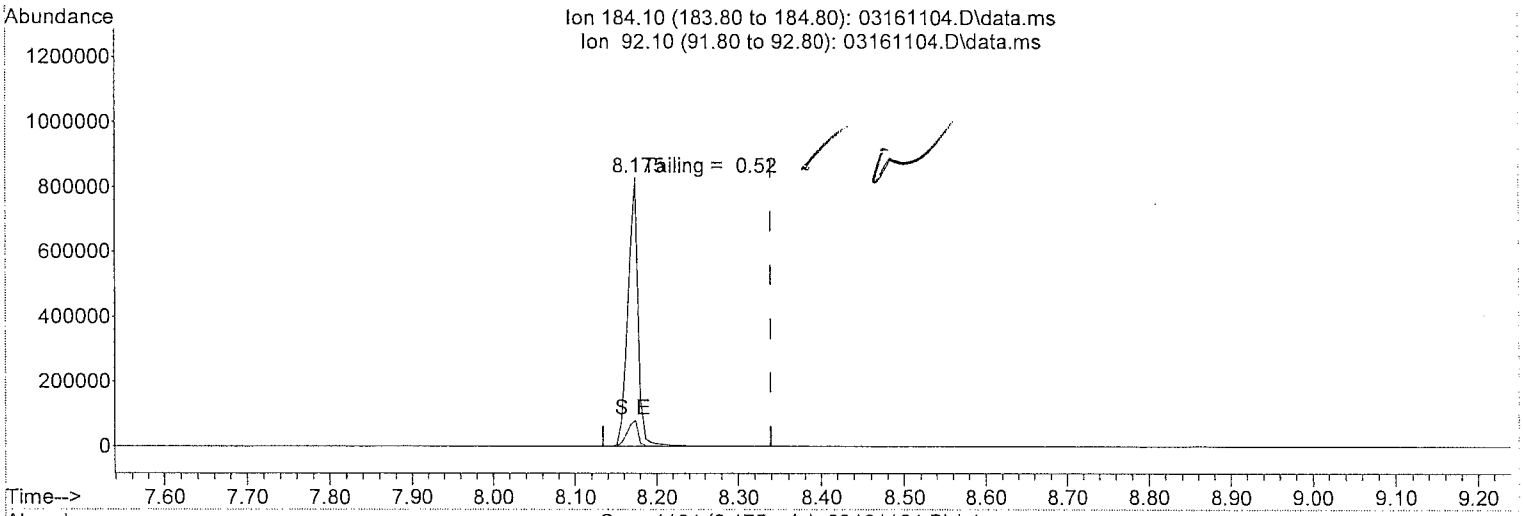
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.8	70538	PASS
68	69	0.00	2	1.4	851	PASS
69	198	0.00	100	41.0	60376	PASS
70	69	0.00	2	0.5	304	PASS
127	198	40	60	48.4	71312	PASS
197	198	0.00	1	0.5	768	PASS
198	198	100	100	100.0	147437	PASS
199	198	5	9	6.8	10036	PASS
275	198	10	30	20.5	30203	PASS
365	198	1	100	2.5	3730	PASS
441	443	0.01	100	78.5	19368	PASS
442	198	40	100	87.4	128890	PASS
443	442	17	23	19.1	24671	PASS

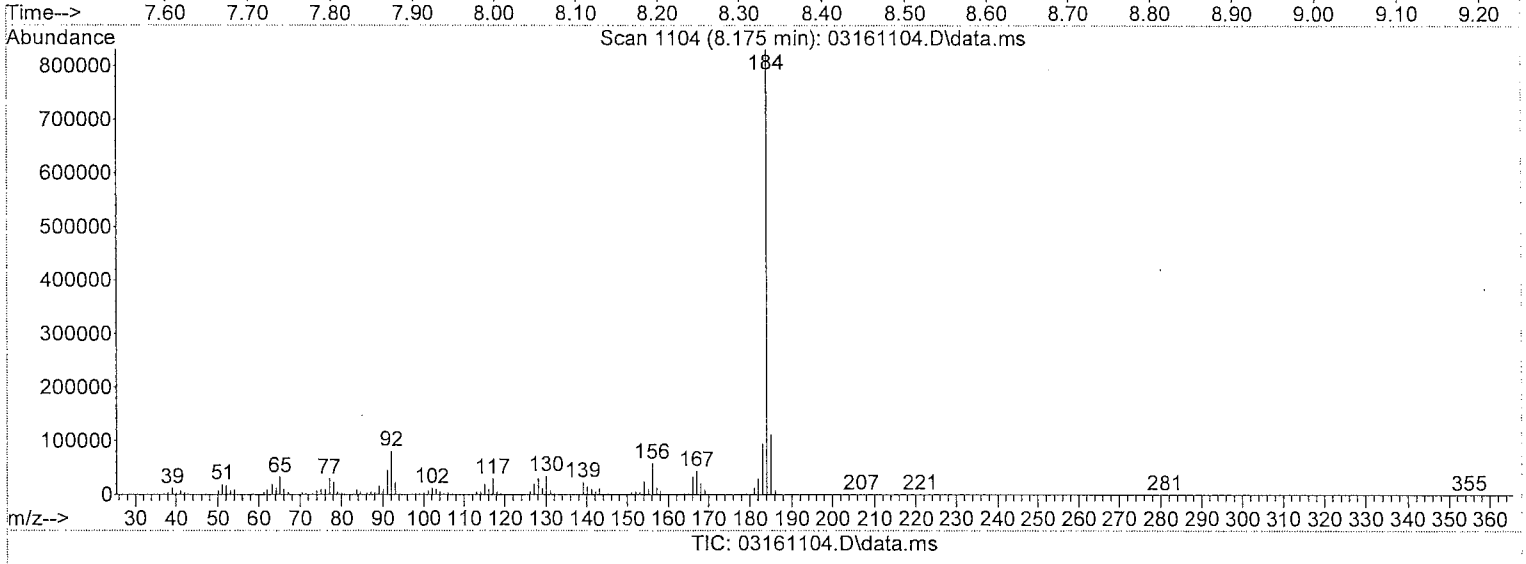
03-18-11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161104.D
Acq On : 16 Mar 2011 3:45 pm
Operator : CL
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 18 18:23:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
QLast Update : Thu Feb 17 11:44:41 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D





(2) Benzidine

8.175min (-0.164) 9.22

response 724239

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.38
0.00	0.00	0.00
0.00	0.00	0.00

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:19:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

03-18-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.698	96	236131	20.00 ug/mL	-0.05
3) 1,4-Dichlorobenzene-d4	5.992	152	205085	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	345840	9.41 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.751	88	128882	10.73 ug/mL	98
4) 1,4-Dichlorobenzene	6.010	146	352026	10.44 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.328	70	235737	9.62 ug/mL	99

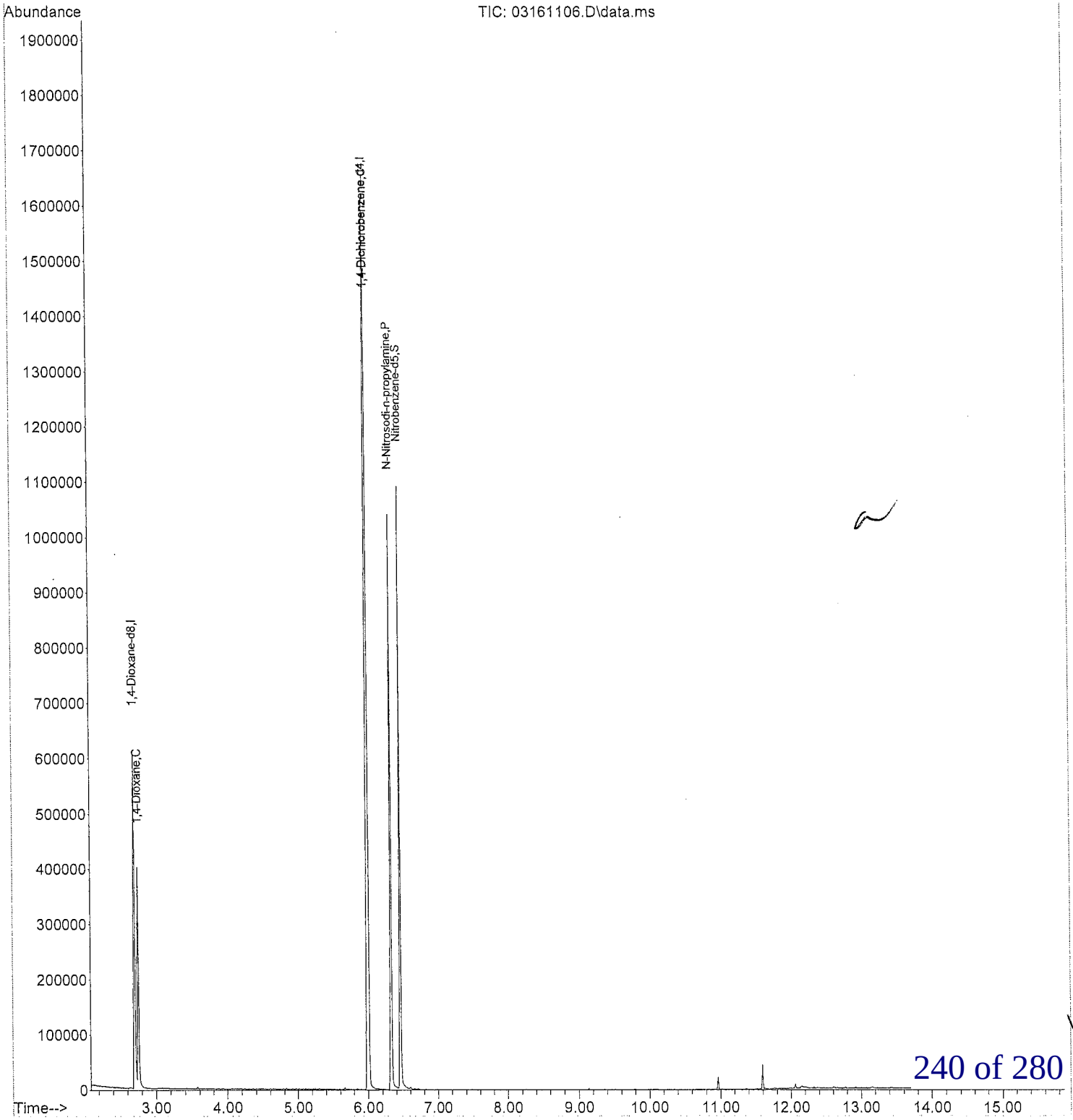
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:19:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.746	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.793	1.017	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	6.010	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	6.028	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.345	1.056	A	1	A	B
6	S	Nitrobenzene-d5	82	6.481	1.078	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

010511D.M Wed Mar 16 19:20:09 2011

a 3-18-11

A 3/21/11

Evaluate Continuing Calibration Report

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 19:19:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 400%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dioxane-d8	1.000	1.000	0.0	72	-0.05
2	C	1,4-Dioxane	1.018	1.092	-7.3	75	-0.04
3	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	-0.02
4	C*	1,4-Dichlorobenzene	1.644	1.716	-4.4	87	-0.02
5	P	N-Nitrosodi-n-propylamine	1.195	1.149	3.8	77	-0.02
6	S	Nitrobenzene-d5	1.792	1.686	5.9	76	-0.02

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

3-18-11

L 3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03161106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 16:37
Misc Info CCV
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.M

	CCV RESPONSE	**ICAL** RESPONSE	0.5X	2X	**PASS/FAIL**
Internal Standard					
1,4-Dichlorobenzene-d4	205085	243008	121504	486016	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	6.09	5.59	6.59	<-PASS

a 3-18-11

3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03161106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 16:37
Misc Info CCV
Instrument Name GCMS14

	NAME	RT	CCV RRT Value (Target/IS)	10ug/mL PU00063 01051110.D D:\msdchem\1\GCMS14\DATA\010511\ mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.698					
	1,4-Dioxane	2.751	1.0196	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	5.992					
	1,4-Dichlorobenzene	6.010	1.0029	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.328	1.0559	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.463	1.0785	1.0763	1.0163	1.1363	<-PASS

3-18-11

3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03161106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 16:37
Misc Info CCV
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	205085	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

Daily update
03-18-11

3/21/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 12:58:11 2011
Response Via : Continuing Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	20	10	D:\msdchem\1\GCMS14\DATA\031611\03161106.D
2	CC	20	10	D:\msdchem\1\GCMS14\DATA\031611\03161106.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 21 12:57 2011	Mar 21 12:57 2011	16 Mar 2011 4:37 pm
2	CC	Mar 21 12:58 2011	Mar 21 12:57 2011	16 Mar 2011 4:37 pm

031611_D8.M Mon Mar 21 12:58:22 2011

a 3-21-11

L 3/21/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥
Method File : 031611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 12:58:11 2011
Response Via : Continuing Calibration

Calibration Files
1 =03161106.D

Compound	1	Avg	%RSD
1) I 1,4-Dichlorobenzen...	ISTD		
2) 1,4-Dioxane-d8	0.576	0.576	0.00

(#) = Out of Range

a 2-21-11

3/21/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031611_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 12:58:11 2011
Response Via : Continuing Calibration

Total Cpnds : 2

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	5.992	1.000	A	0	A	B
2		1,4-Dioxane-d8	96	2.698	0.450	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031611_D8.M Mon Mar 21 12:58:39 2011

3/21/11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 12:58:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	205085	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.698	96	236131	20.00 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

update

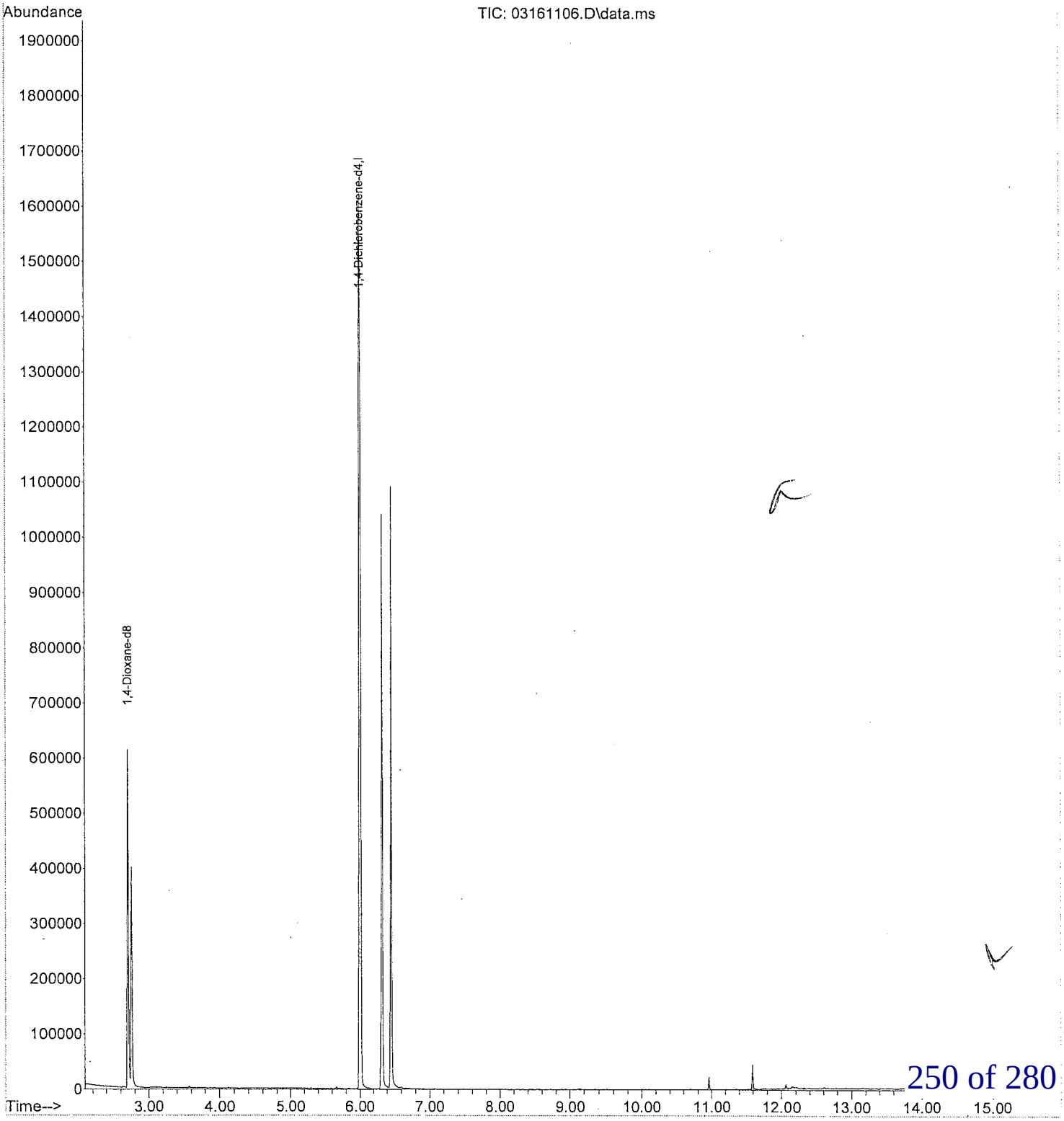
03-21-11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161106.D
Acq On : 16 Mar 2011 4:37 pm
Operator : CL
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 12:58:48 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D



Quantitation Report (Not Reviewed)

03-18-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 10:06:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.793	96	179535	20.00 ug/mL	0.05
3) 1,4-Dichlorobenzene-d4	5.993	152	214464	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	604425	15.73 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.734	88	53	0.01 ug/mL#	1
4) 1,4-Dichlorobenzene	6.004	146	720	0.02 ug/mL#	1

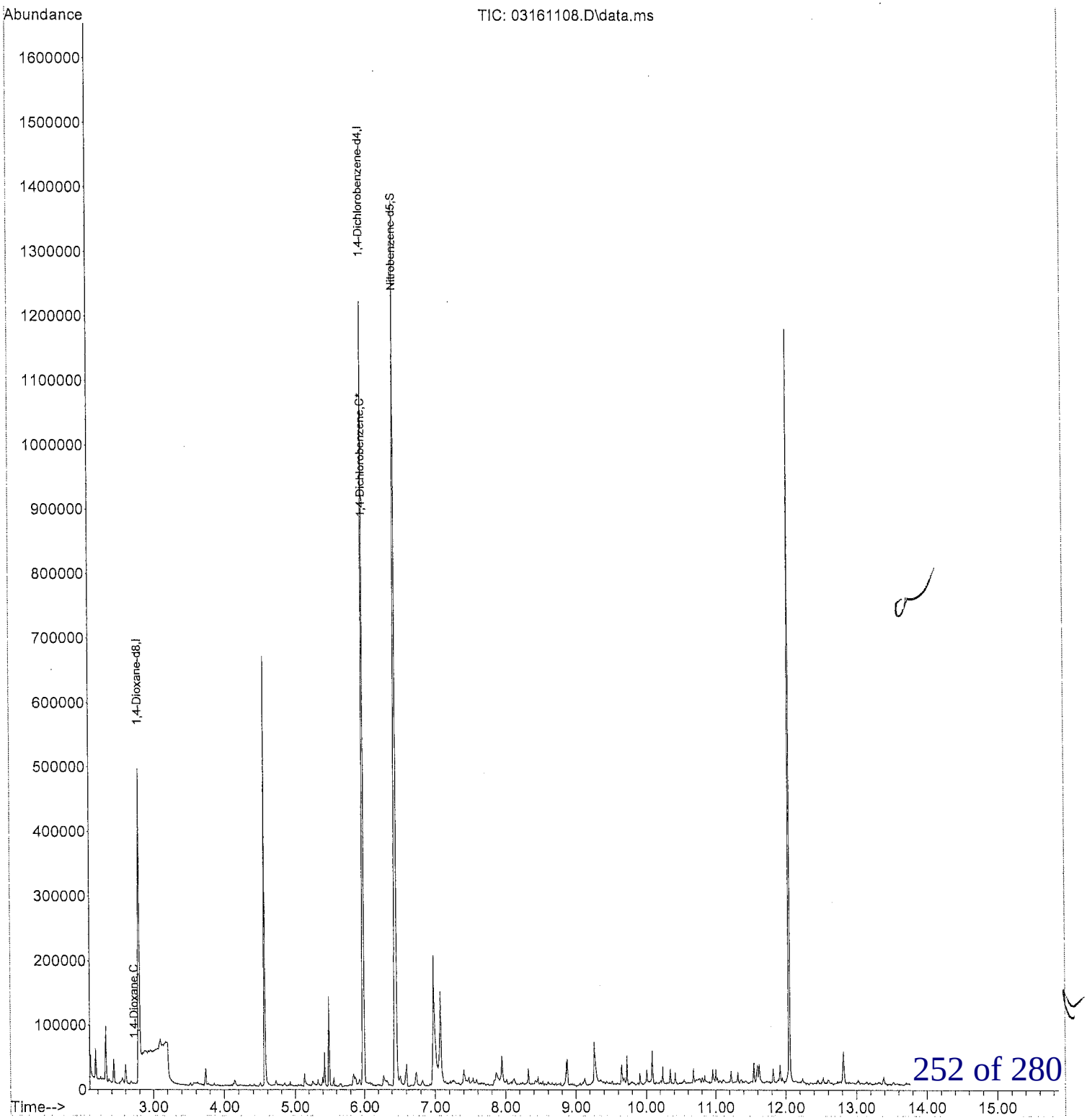
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 17 10:06:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0526-BLK1
Data File Name 03161108.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 18:31
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	214464	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

3/17/2011 10:15 AM

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 21 13:01:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D

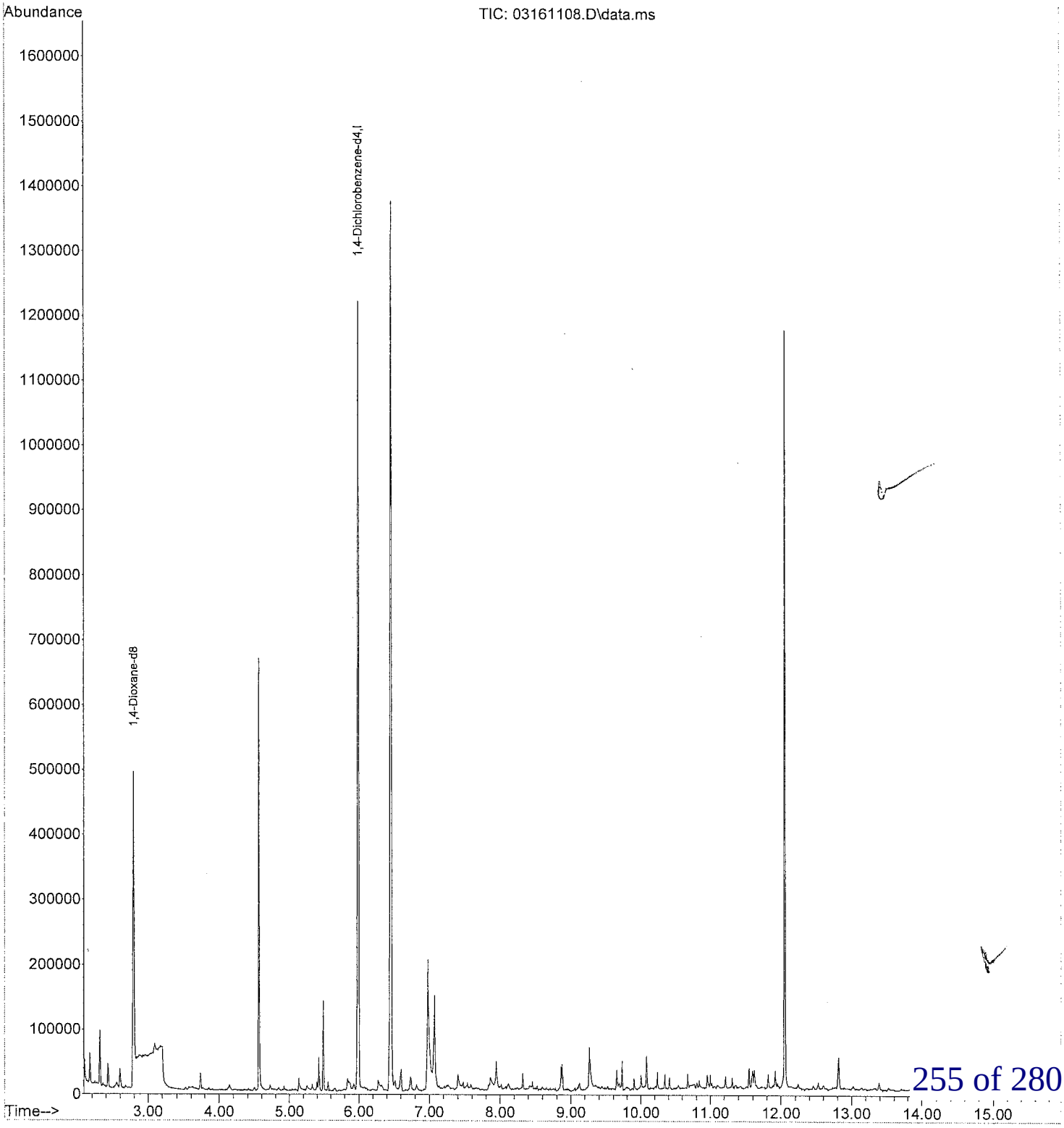
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.993	152	214464	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.793	96	179535	14.54 ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161108.D
Acq On : 16 Mar 2011 6:31 pm
Operator : CL
Sample : 11C0526-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 21 13:01:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031611¥03161106.D



Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:23:39 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

mnR1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.852	96	162348m	20.00 ug/mL	0.11
3) 1,4-Dichlorobenzene-d4	5.992	152	218822	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	582739	14.86 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.910	88	172534m	20.88 ug/mL	
4) 1,4-Dichlorobenzene	6.004	146	619	0.02 ug/mL#	1

G 3/18/11

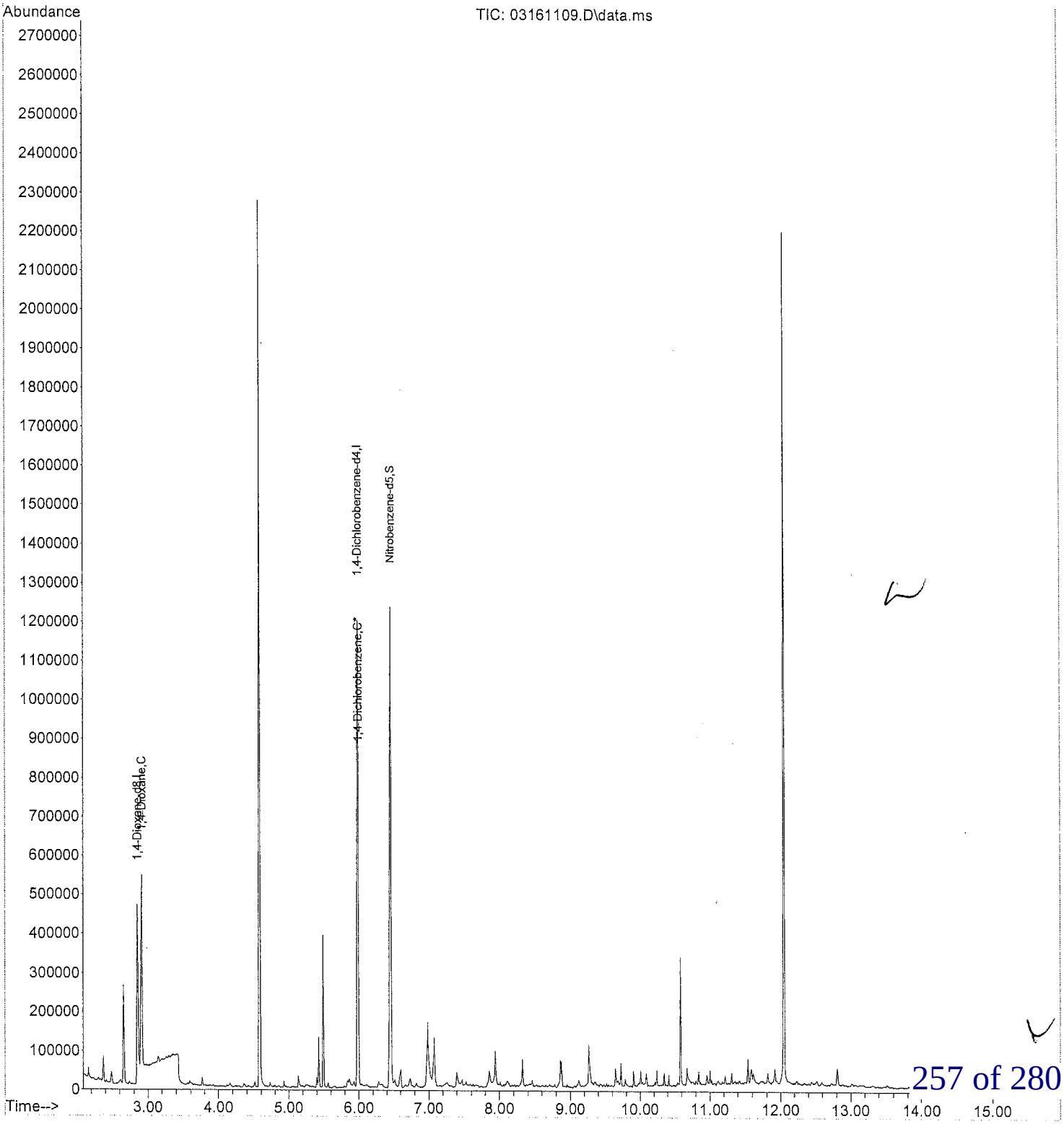
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

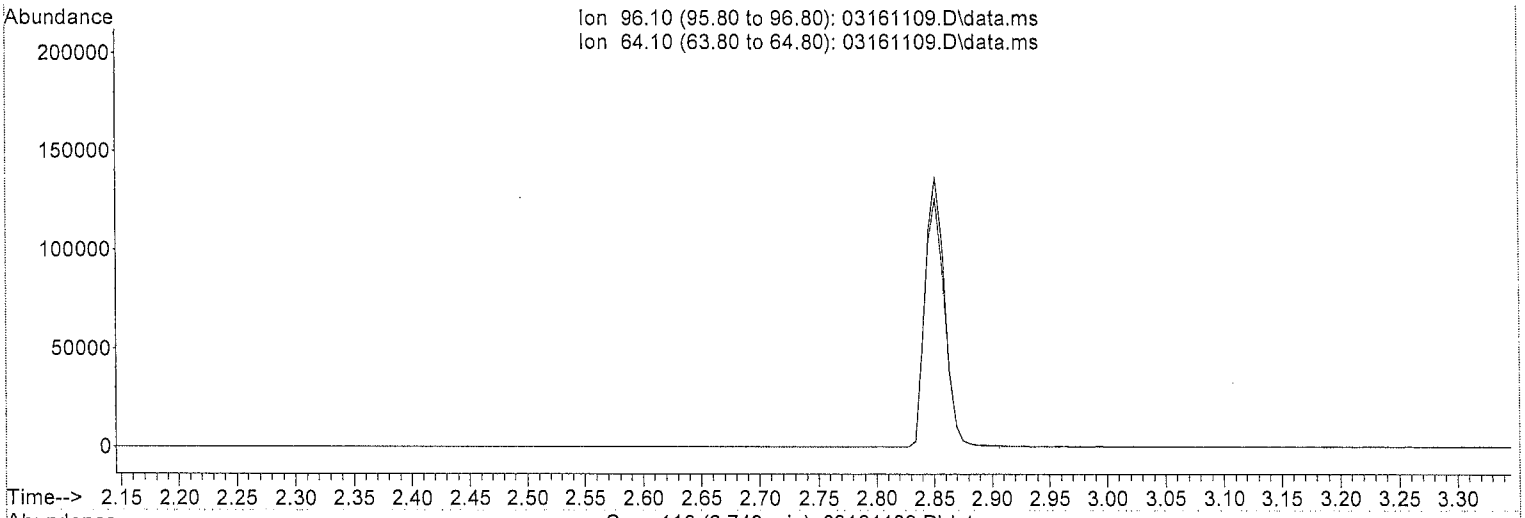
Quant Time: Mar 17 10:23:39 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

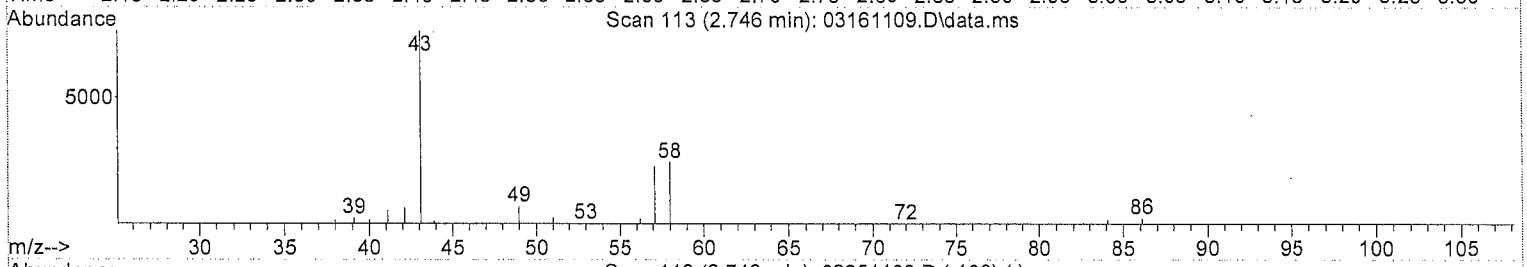


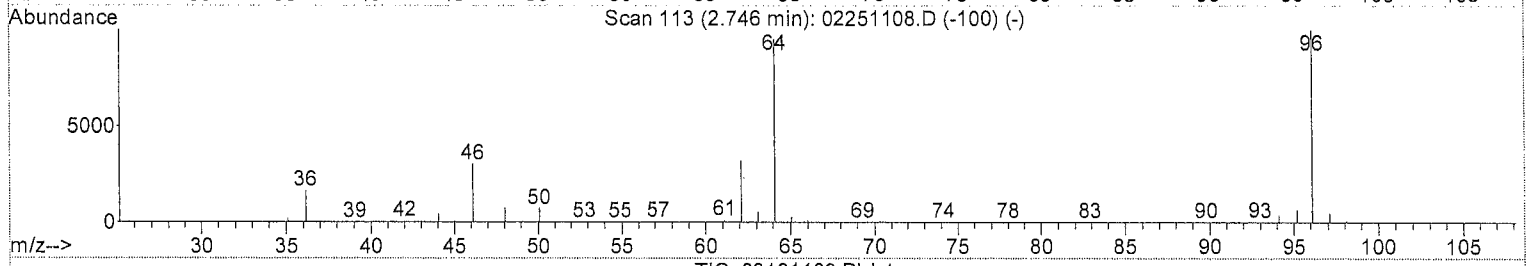
Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration







TIC: 03161109.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.746min (-2.746) 0.00ug/mL

response 0

Ion	Exp%	Act%
96.10	100	0.00
64.10	93.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

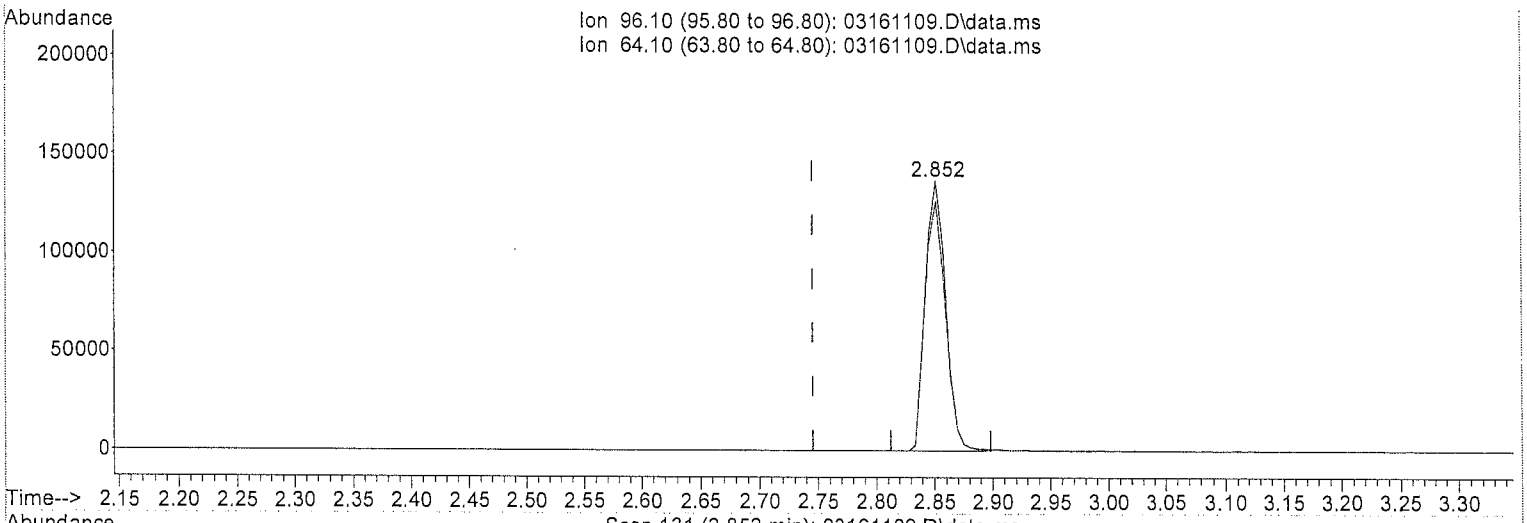
B

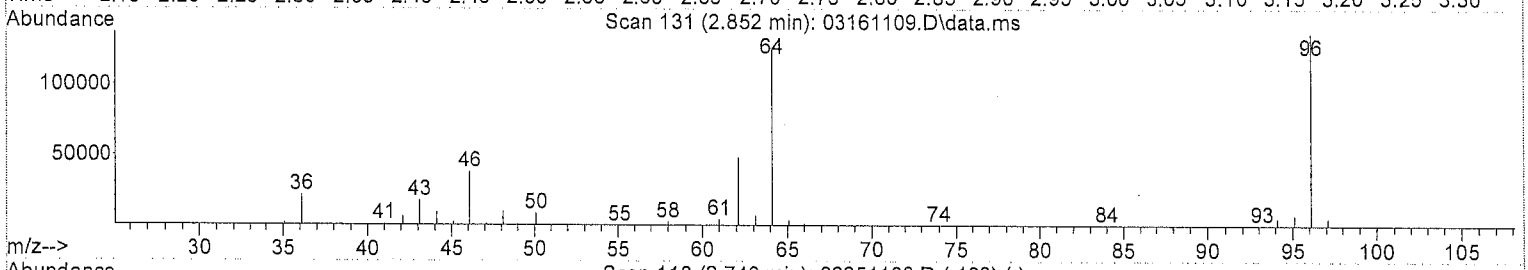
ID 03/18/11

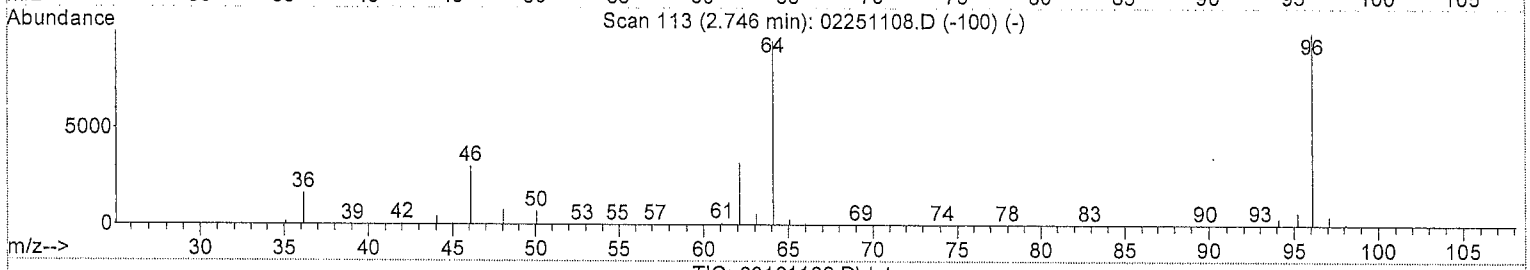
Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration







TIC: 03161109.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.852min (+0.106) 20.00ug/mL m

response 162348

Ion	Exp%	Act%
96.10	100	100
64.10	93.60	92.65
0.00	0.00	0.00
0.00	0.00	0.00

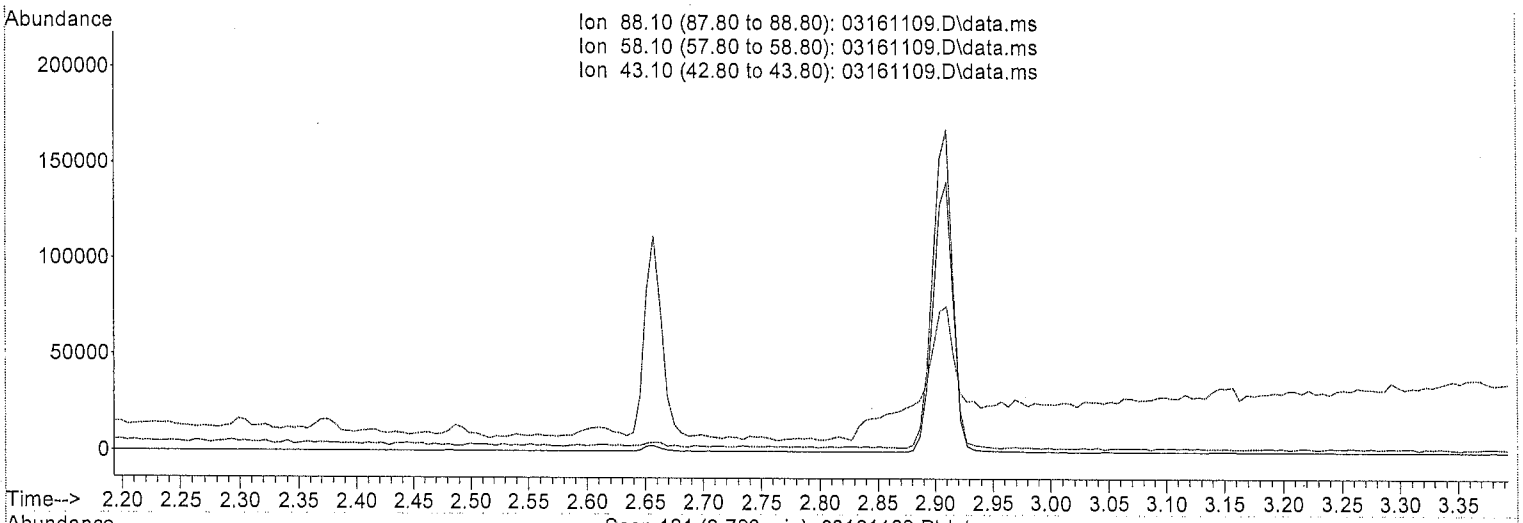
A
a 3-18-11

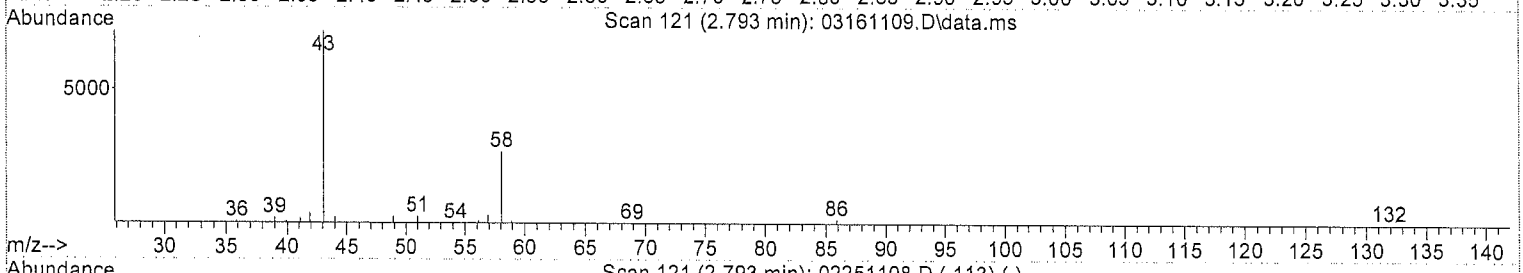
A 3/21/11

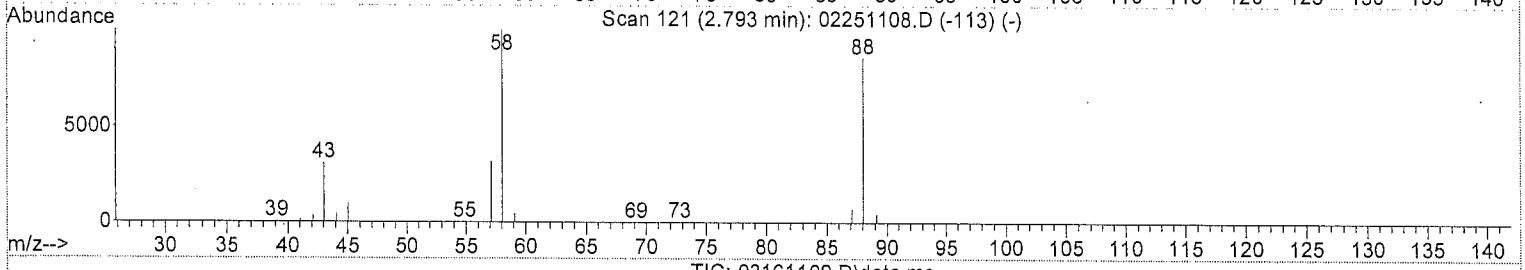
Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration







TIC: 03161109.D\data.ms

(2) 1,4-Dioxane (C)

2.793min (-2.793) 0.00ug/mL

response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	112.80	0.00#
43.10	35.80	0.00#
0.00	0.00	0.00

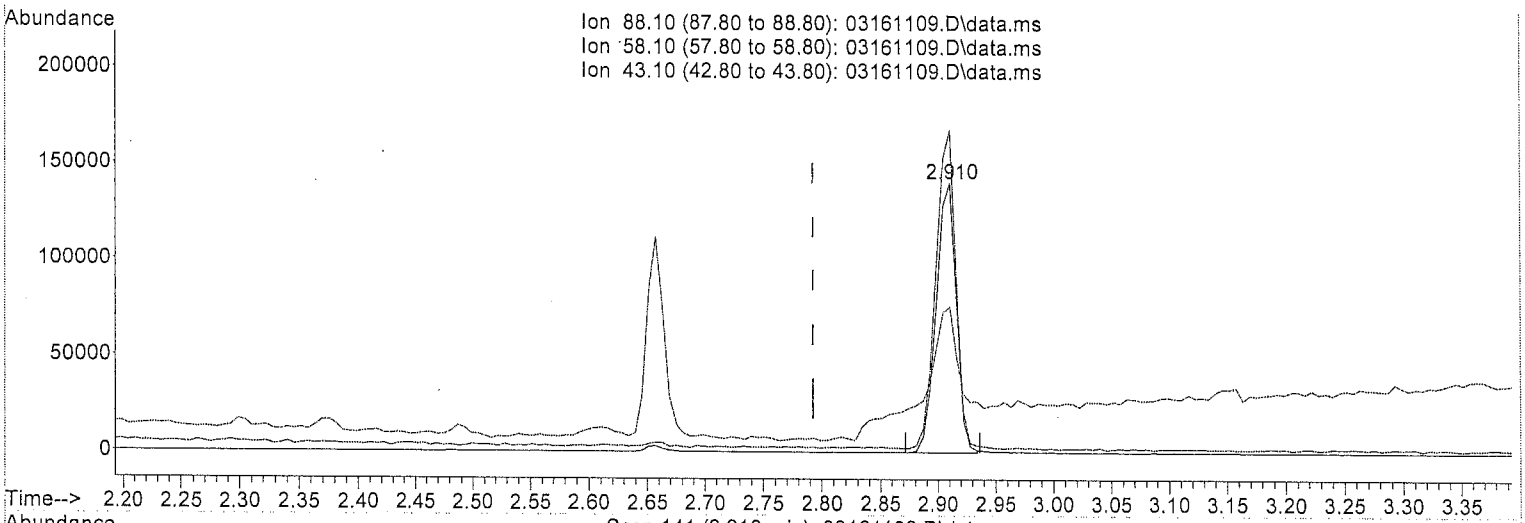
ID B
3-18-11

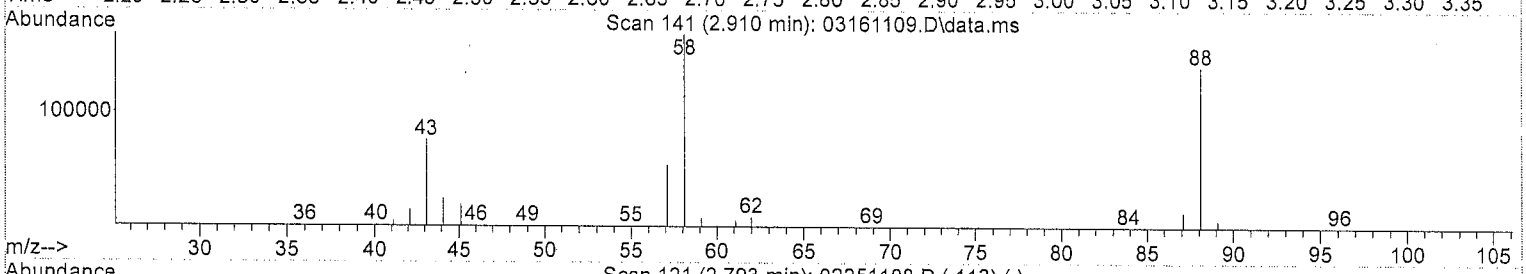
L 3/11

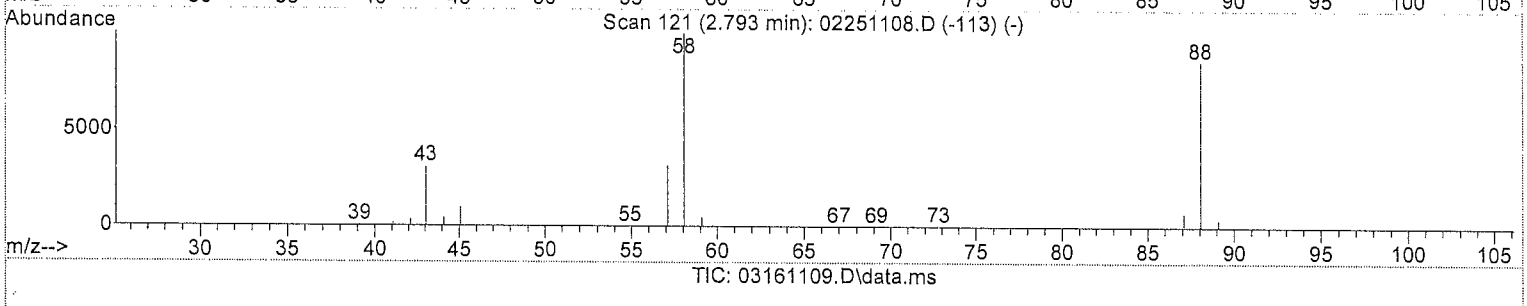
Quantitation Report (Qedit)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031611¥
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 17 10:06:15 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration







TIC: 03161109.D\data.ms

(2) 1,4-Dioxane (C)

2.910min (+0.118) 20.88ug/mL m

response 172534

Ion	Exp%	Act%
88.10	100	100
58.10	112.80	119.81
43.10	35.80	41.38
0.00	0.00	0.00

A 3.18.11

A 3/21/11

Sample Name 11C0526-BS1
Data File Name 03161109.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 18:58
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	218822	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 13:07:07 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	218822	10.00	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane-d8	2.85	96	162343m	12.89	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

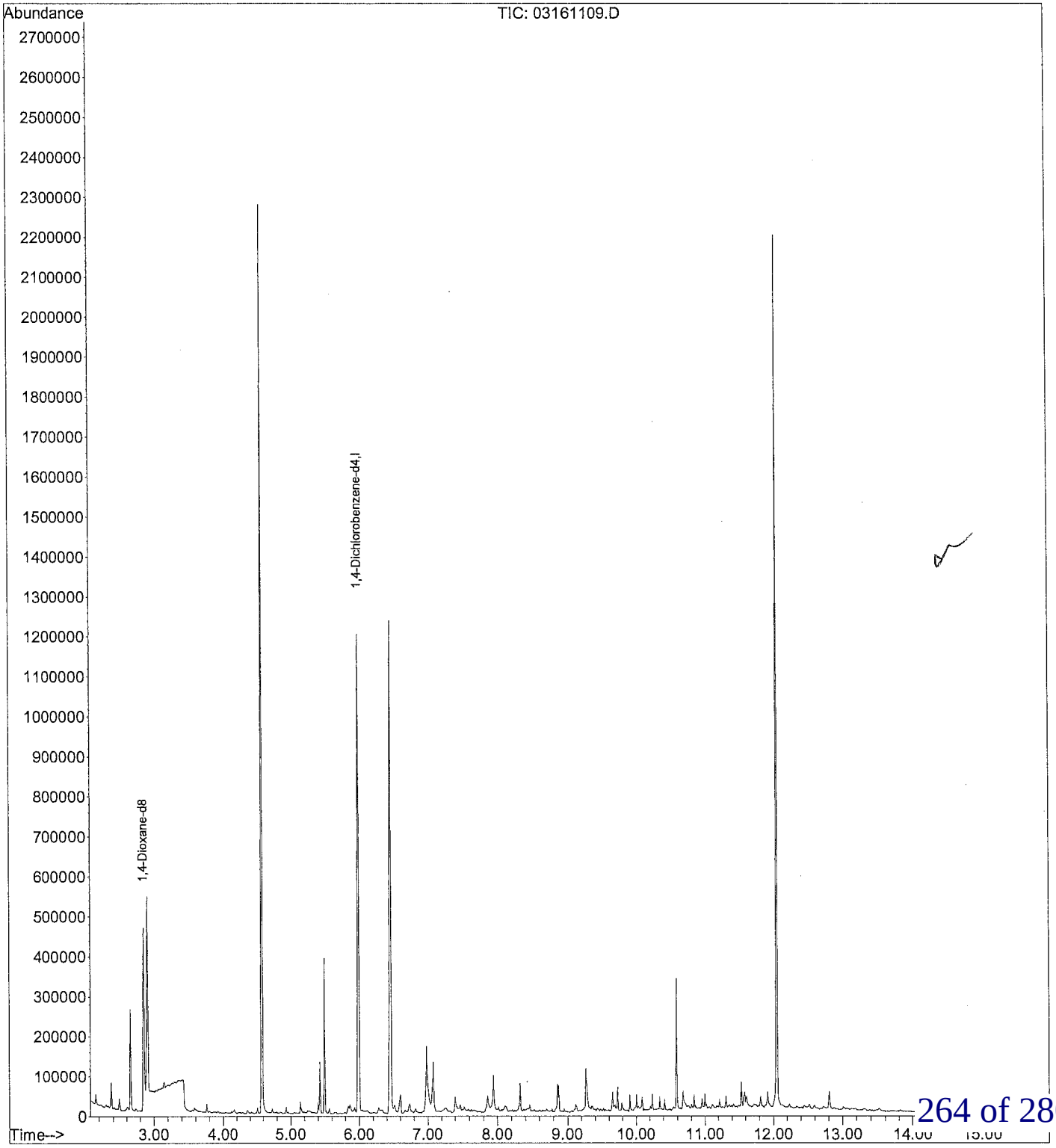
03-21-11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

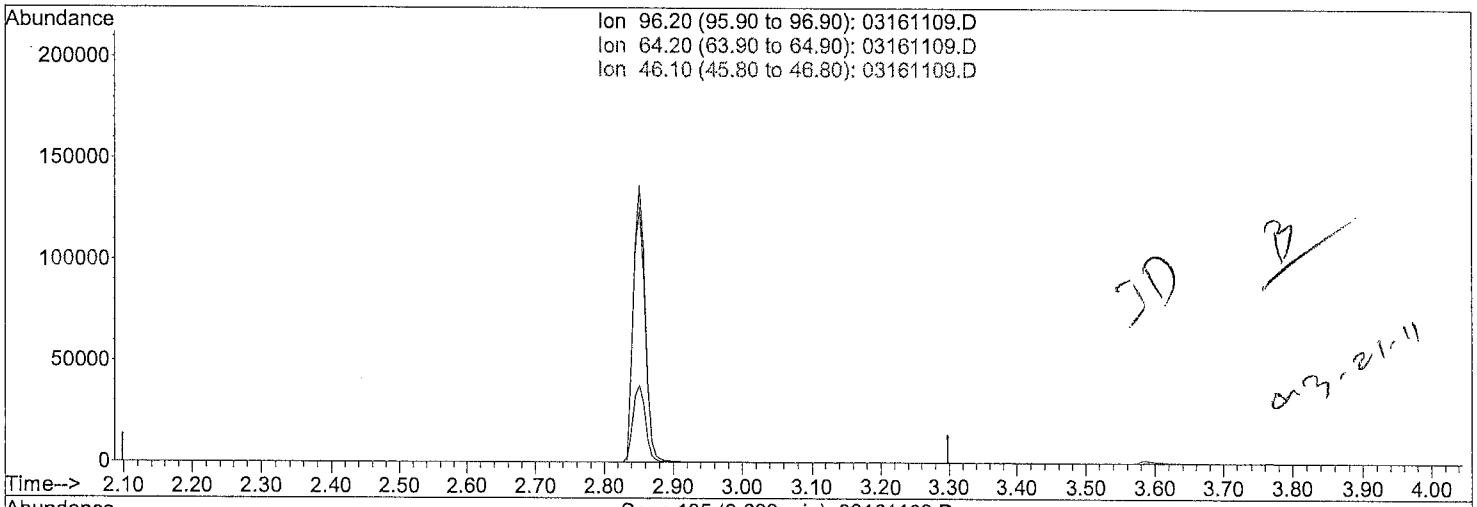
Quant Time: Mar 21 13:07:07 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D



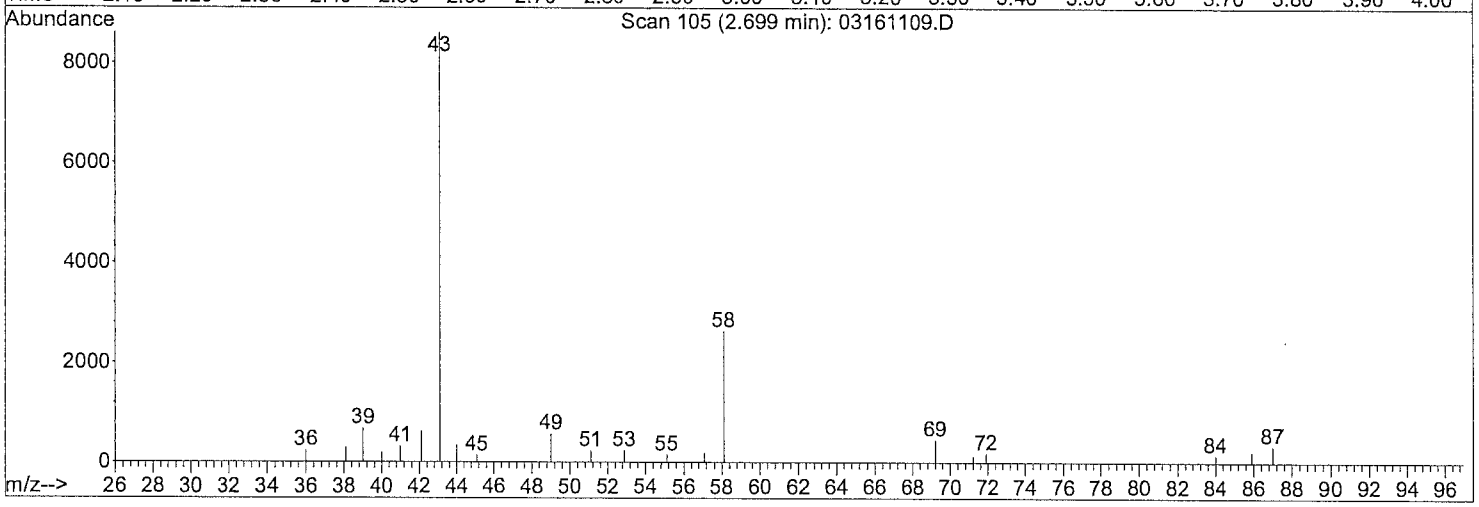
Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 13:01:43 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D



JD 03-21-11



TIC: 03161109.D

(2) 1,4-Dioxane-d8

2.698min (-2.698) 0.00ug/mL

response 0

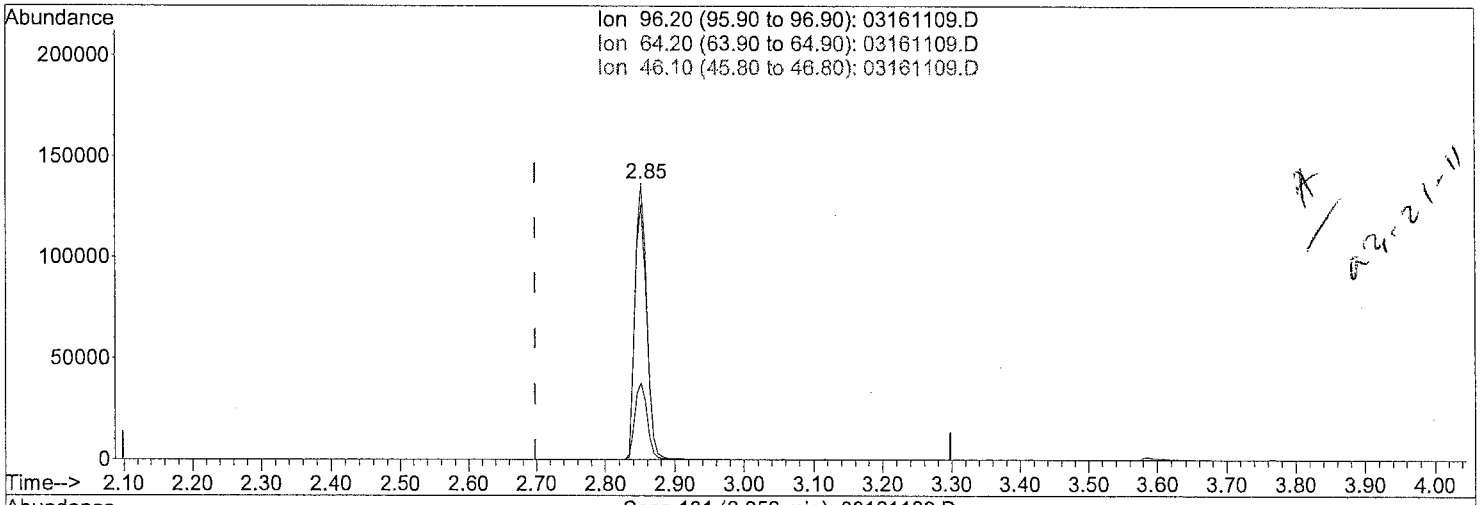
Ion	Exp%	Act%
96.20	100	0.00
64.20	93.80	0.00#
46.10	29.30	0.00#
0.00	0.00	0.00

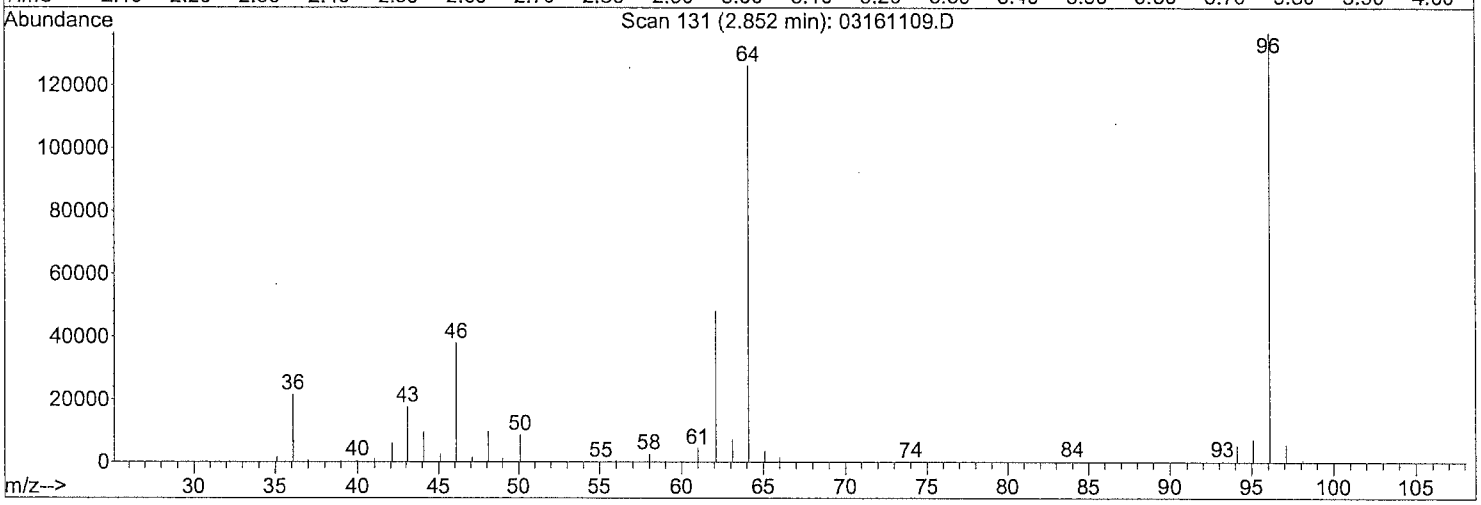
3/21/11

Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161109.D
Acq On : 16 Mar 2011 6:58 pm
Operator : CL
Sample : 11C0526-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 13:01:43 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161109.D

(2) 1,4-Dioxane-d8

2.852min (+0.153) 12.89ug/mL m

response 162343

Ion	Exp%	Act%
96.20	100	100
64.20	93.80	92.87
46.10	29.30	28.99
0.00	0.00	0.00

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 10:06:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

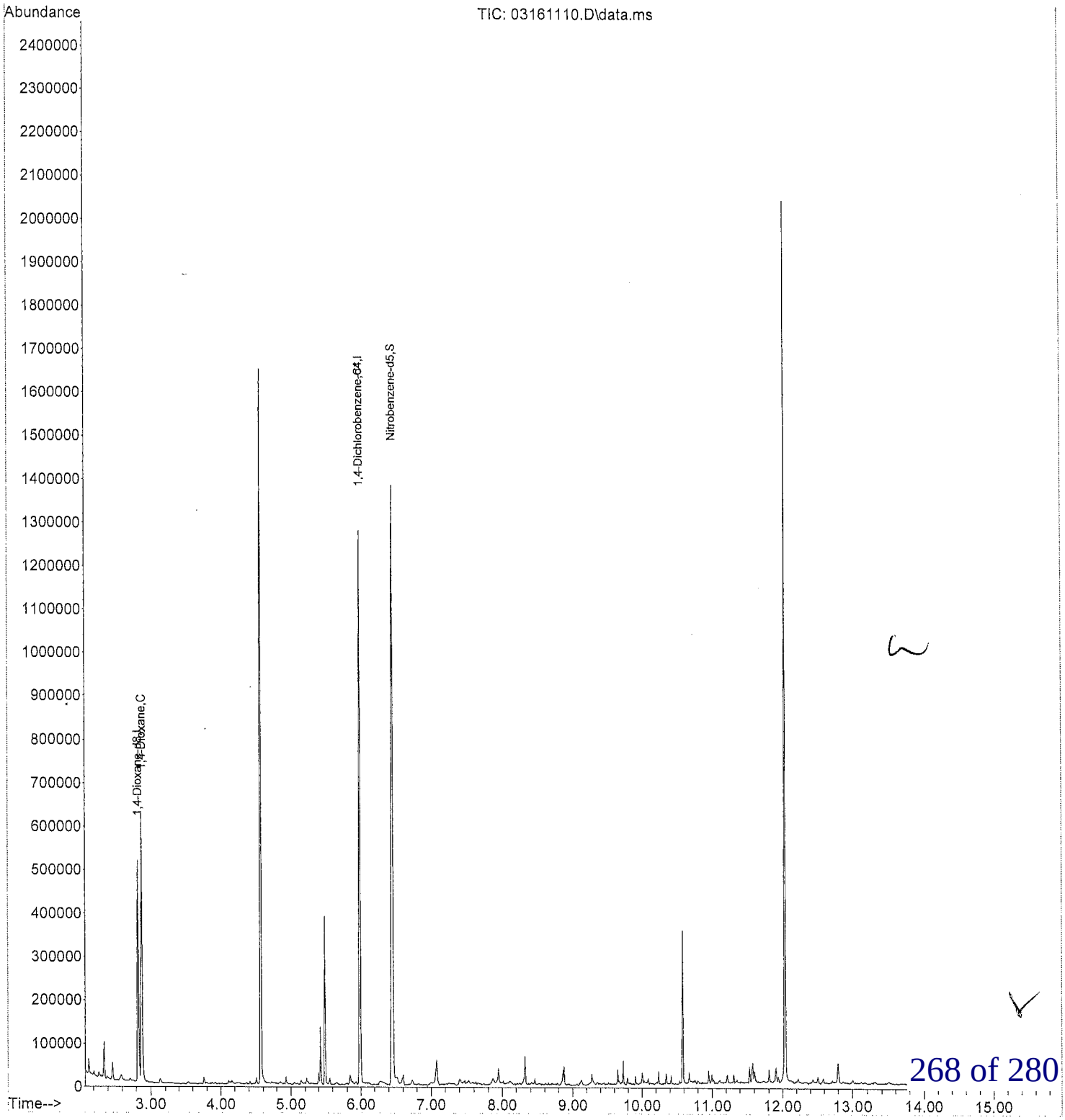
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.828	96	185840	20.00 ug/mL	0.08
3) 1,4-Dichlorobenzene-d4	5.993	152	227729	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	676248	16.57 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.881	88	196800	20.81 ug/mL	96
4) 1,4-Dichlorobenzene	5.998	146	583	0.02 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 17 10:06:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0526-BSD1
Data File Name 03161110.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/16/2011 19:24
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	227729	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 13:08:17 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	227729	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.83	96	185598m	14.16 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

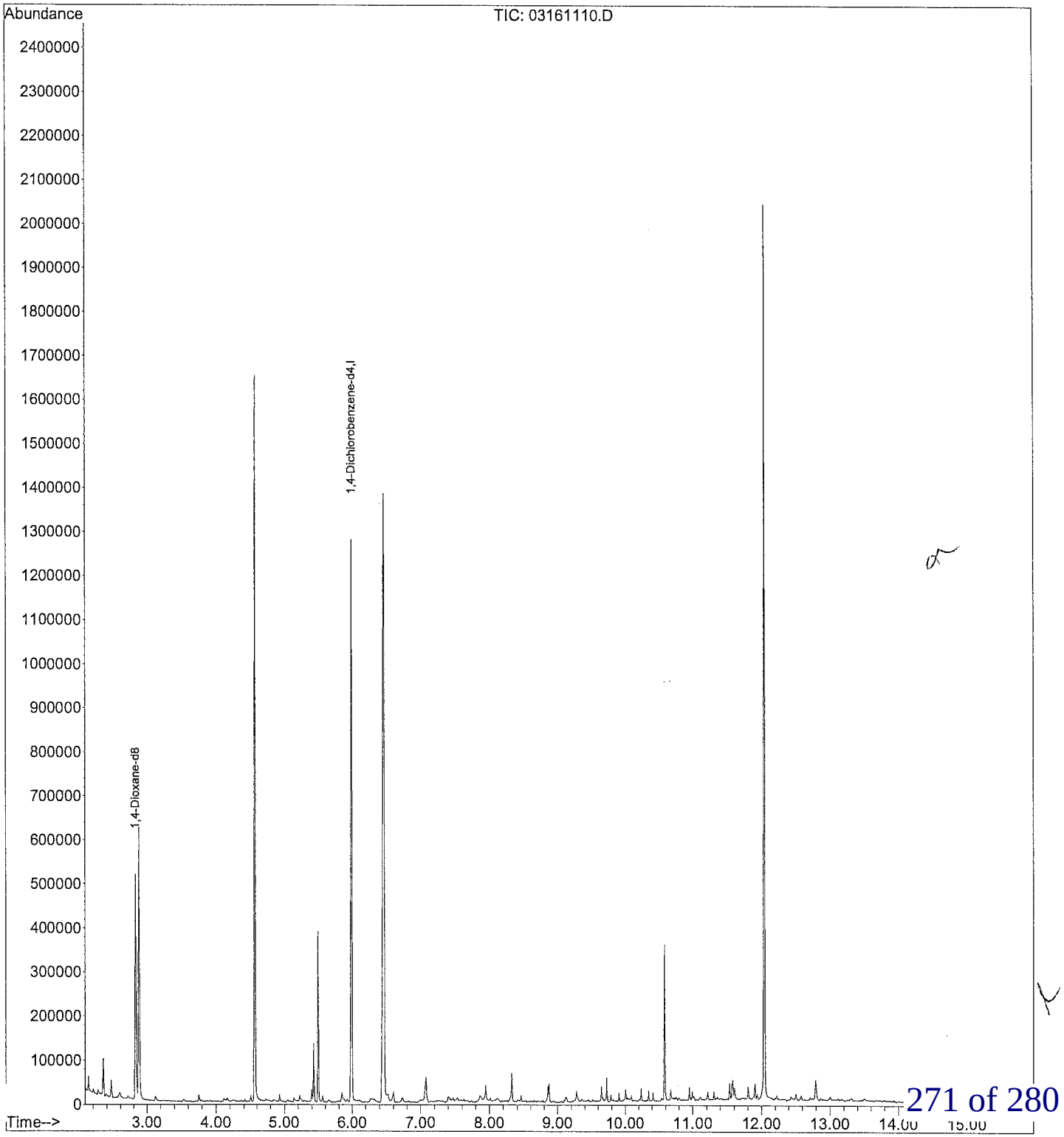
03/21/11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

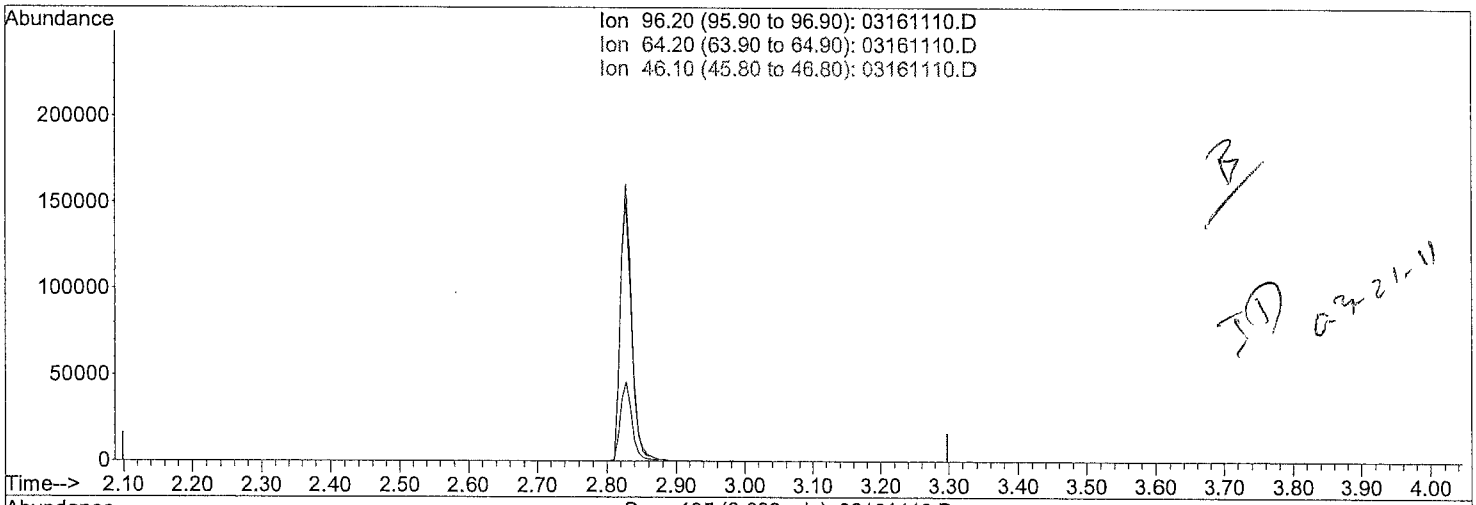
Quant Time: Mar 21 13:08:17 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

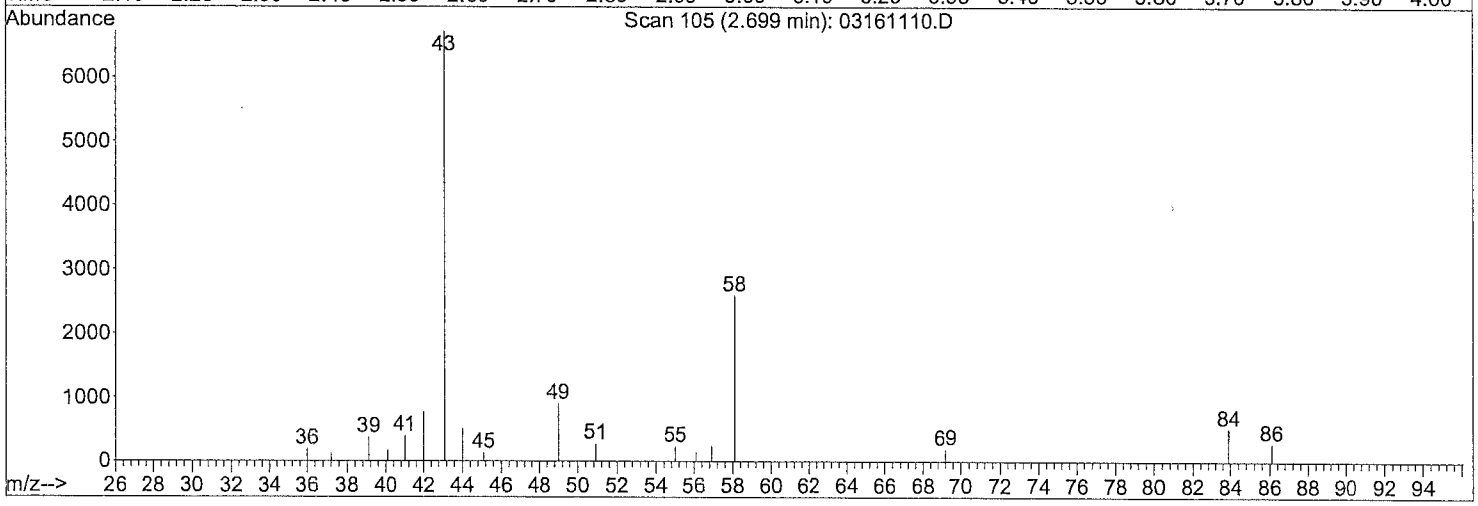


Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 13:01:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161110.D

(2) 1,4-Dioxane-d8

2.698min (-2.698) 0.00ug/mL

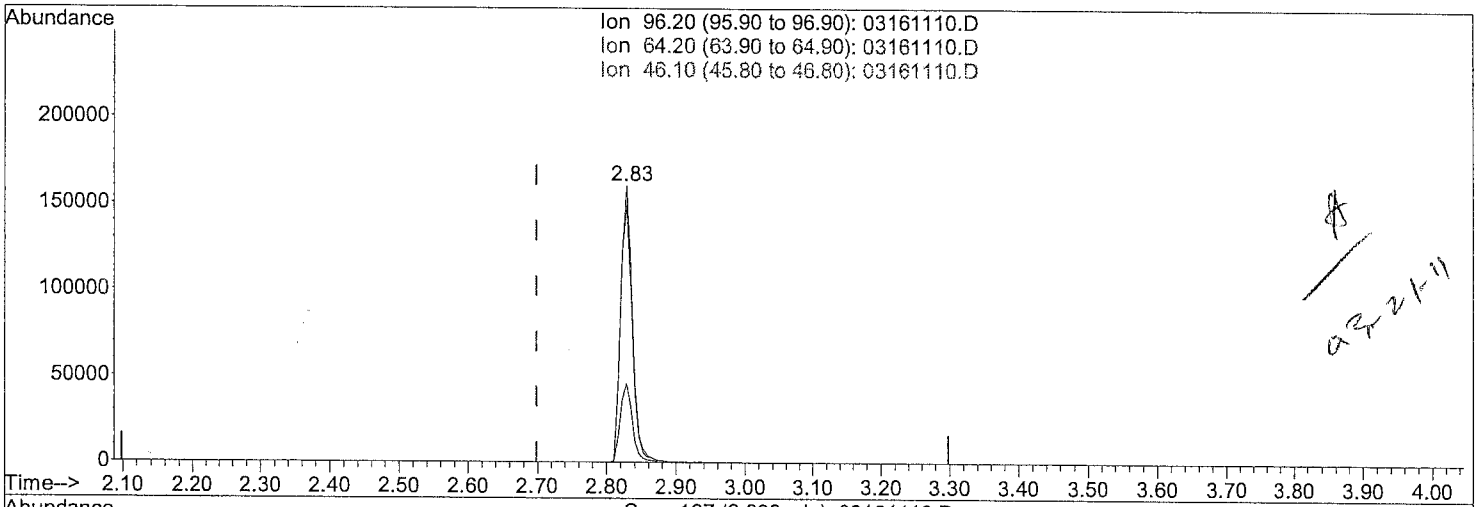
response 0

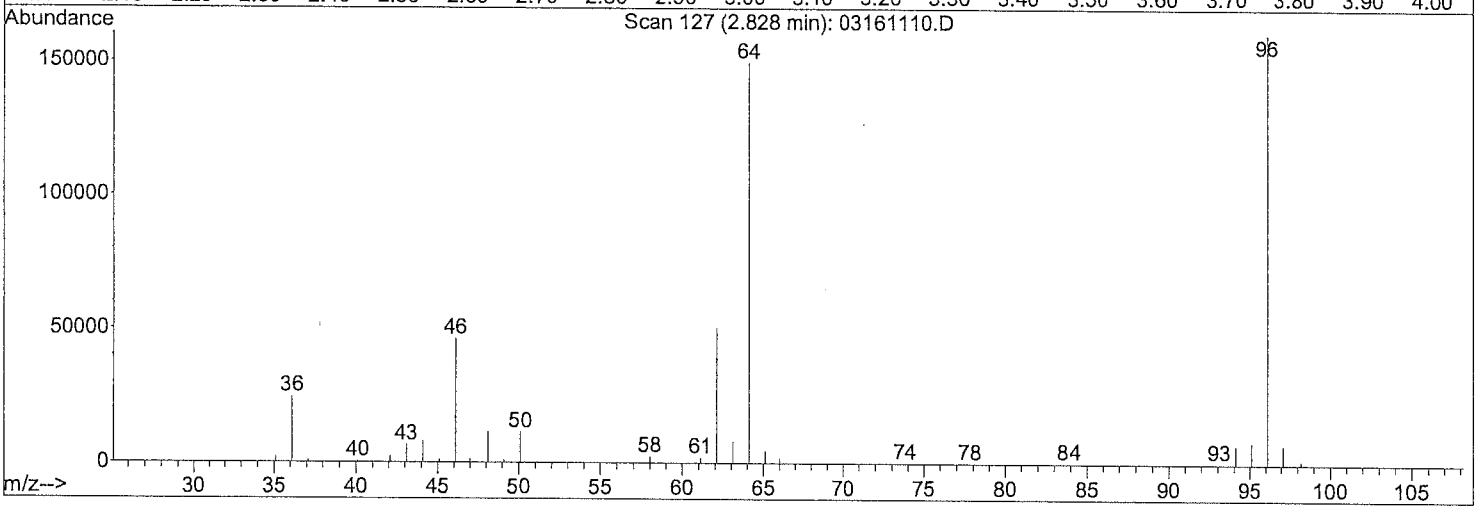
Ion	Exp%	Act%
96.20	100	0.00
64.20	93.80	0.00#
46.10	29.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161110.D
Acq On : 16 Mar 2011 7:24 pm
Operator : CL
Sample : 11C0526-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 13:01:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161110.D

(2) 1,4-Dioxane-d8

2.828min (+0.130) 14.16ug/mL m

response 185598

Ion	Exp%	Act%
96.20	100	100
64.20	93.80	92.28
46.10	29.30	29.37
0.00	0.00	0.00

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161121.D
Acq On : 17 Mar 2011 12:15 am
Operator : CL
Sample : PUC0829-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

03-21-4

Quant Time: Mar 17 10:07:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.822	96	181657	20.00 ug/mL	0.08
3) 1,4-Dichlorobenzene-d4	5.993	152	223134	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	630079	15.76 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.881	88	1317	0.14 ug/mL#	1
4) 1,4-Dichlorobenzene	6.004	146	529	0.01 ug/mL#	1

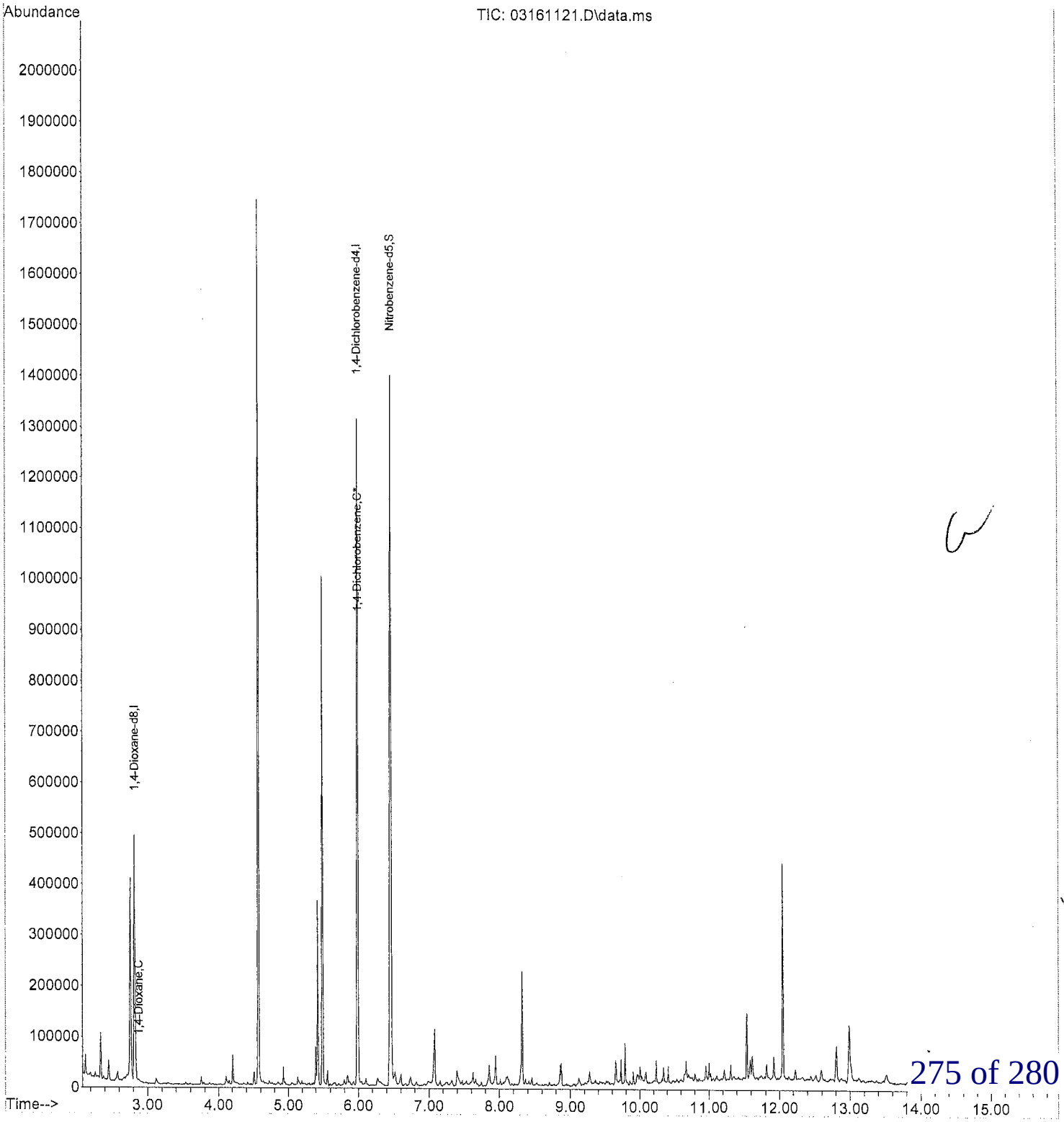
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031611¥
Data File : 03161121.D
Acq On : 17 Mar 2011 12:15 am
Operator : CL
Sample : PUC0829-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 17 10:07:10 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



010511D.M Thu Mar 17 10:07:13 2011

Sample Name PUC0829-01
Data File Name 03161121.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031611\
Operator CL
Date Acquired 3/17/2011 12:15
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03161106.D
D:\msdchem\1\GCMS14\DATA\031611\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	223134	205085	102542.5	410170	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161121.D
Acq On : 17 Mar 2011 12:15 am
Operator : CL
Sample : PUC0829-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 21 13:16:21 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	223134	10.00	ug/mL	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane-d8	2.82	96	180528m	14.05	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

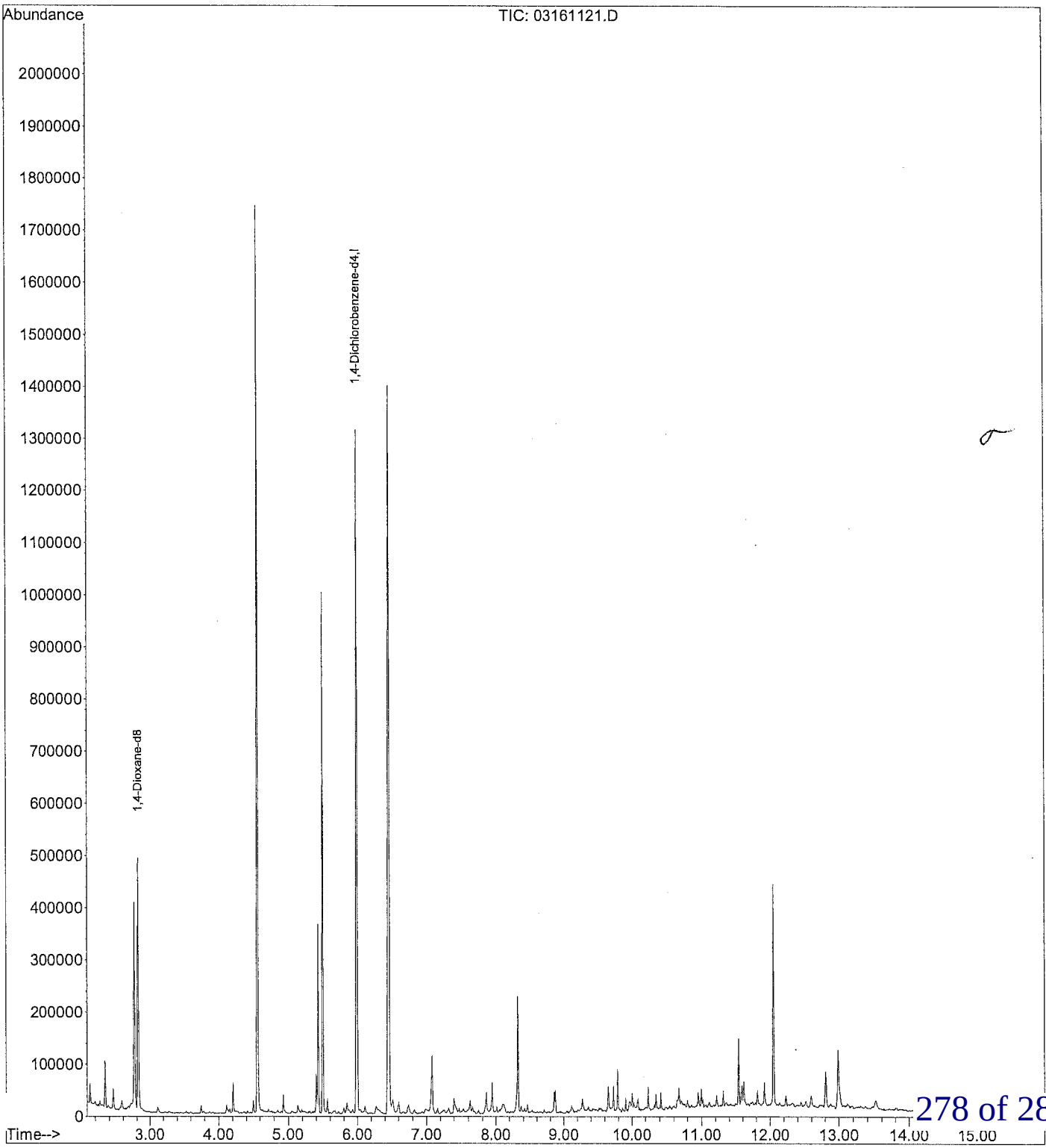
3-21-11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031611\
Data File : 03161121.D
Acq On : 17 Mar 2011 12:15 am
Operator : CL
Sample : PUC0829-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

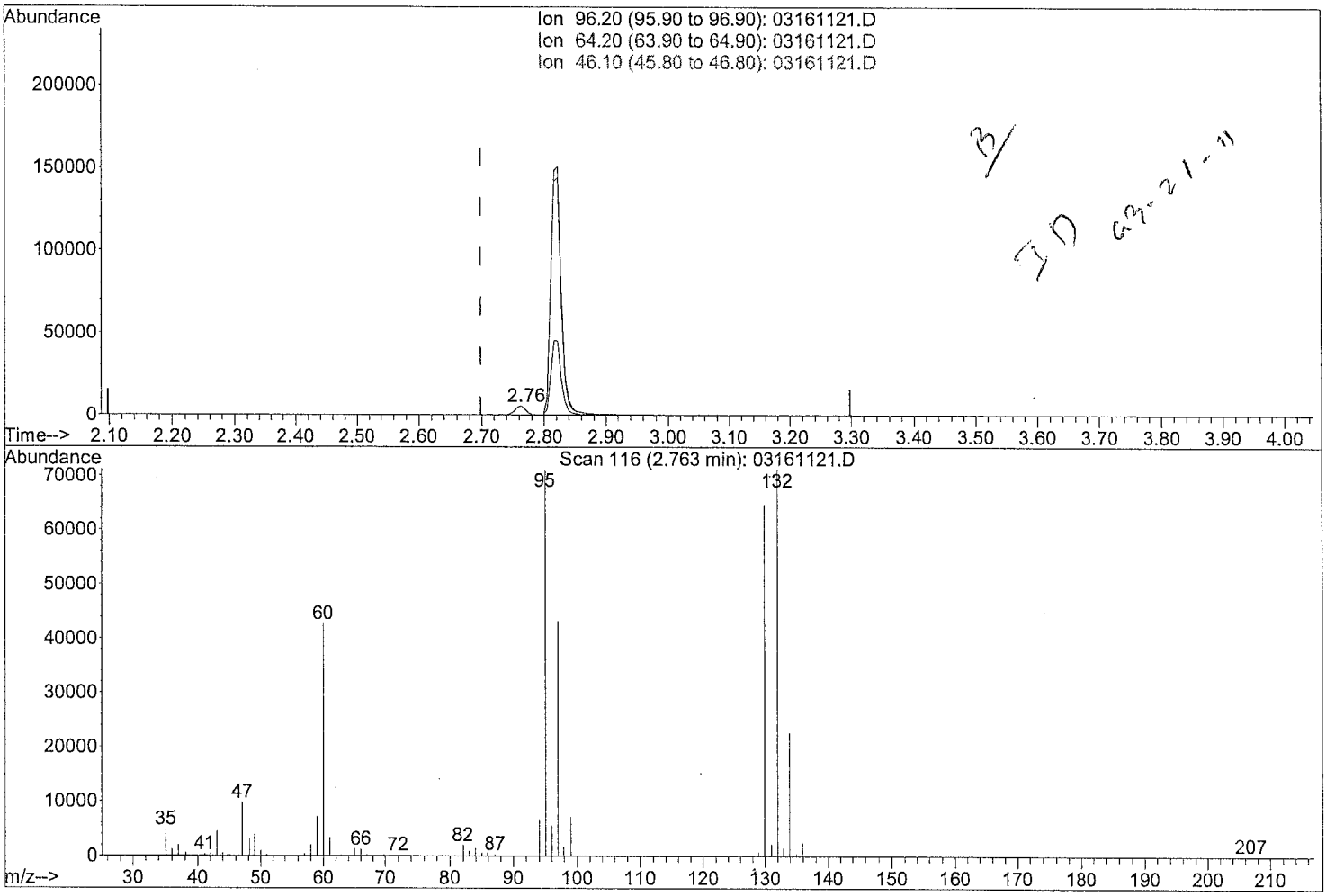
Quant Time: Mar 21 13:16:21 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D



Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161121.D
Acq On : 17 Mar 2011 12:15 am
Operator : CL
Sample : PUC0829-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 21 13:02:34 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D



TIC: 03161121.D

(2) 1,4-Dioxane-d8

2.763min (+0.065) 0.52ug/mL

response 6646

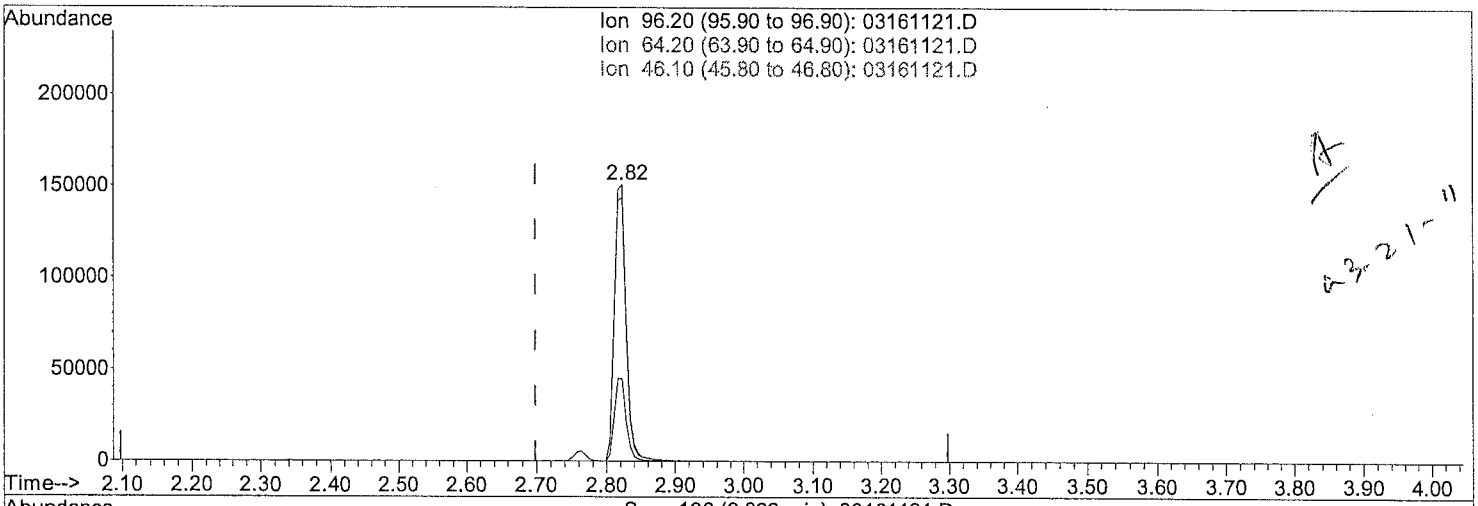
Ion	Exp%	Act%
96.20	100	100
64.20	93.80	0.00#
46.10	29.30	0.00#
0.00	0.00	0.00

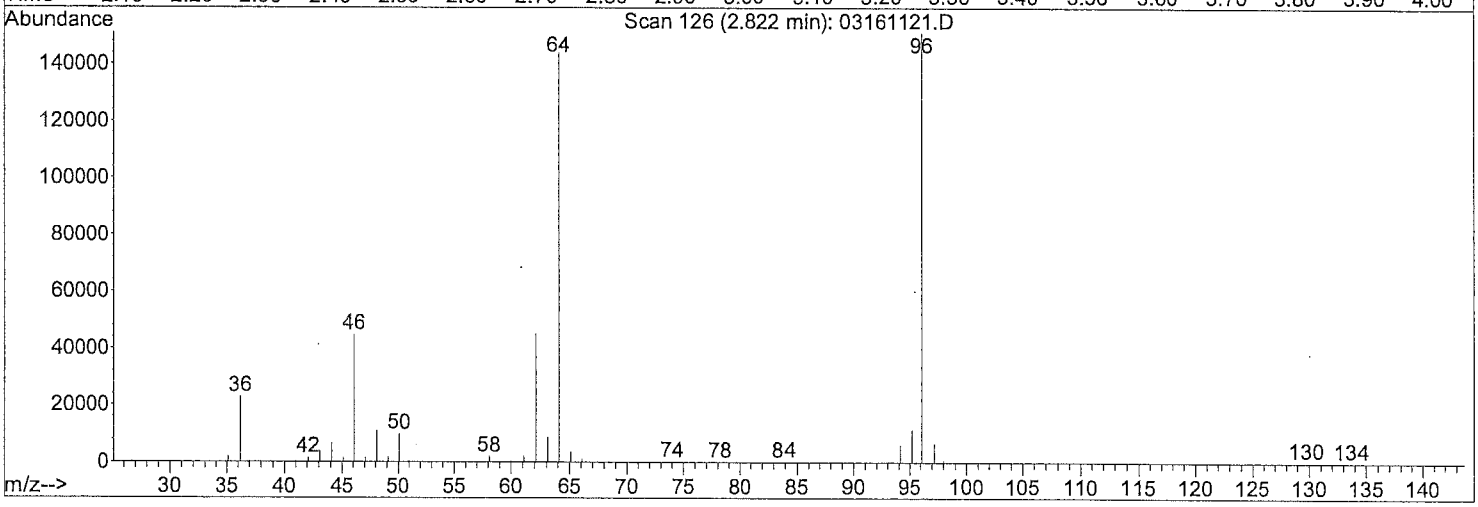
3/21/11

Quantitation Report (Qedit)

Data Path : N:\DATA\031611\
Data File : 03161121.D
Acq On : 17 Mar 2011 12:15 am
Operator : CL
Sample : PUC0829-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 21 13:02:34 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031611_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 12:58:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031611\03161106.D





TIC: 03161121.D

(2) 1,4-Dioxane-d8

2.822min (+0.124) 14.05ug/mL m

response 180528

Ion	Exp%	Act%
96.20	100	100
64.20	93.80	93.71
46.10	29.30	29.52
0.00	0.00	0.00

Level III Data Package

Environmental Resources Management Inc.

TestAmerica Work Order Number:

PUC1004

Prepared for:

Jason Hilker
Environmental Resources Management, Inc.
7272 East Indian School Road, Suite 100
Scottsdale, AZ 85251

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.009

Sampled: 03/15/11
Received: 03/15/11
Issued: 03/23/11 15:14

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUC1004-01	EW-19S-S-031511	Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
N1 - Due to matrix interference the Internal Standard 1,4-Dichlorobenzene-d4 failed lower than method criteria. The surrogates Nitrobenzene-d5 and 1,4-Dioxane-d8 are calculated using this IS. The surrogate recoveries are estimated values due to the IS failure, causing the surrogates to recover higher than laboratory limits.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
R1-The RPD exceeded the acceptance limit.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

CHAIN OF CUSTODY FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E. Indian School Rd.
Scottsdale AZ 85251

Project/PO Number: 0096498.009

Project Manager: Jason Hilker
Send Report to: Jason.Hilker@ERM.com

Phone Number: 480-998-2401

Sampler: Adam Nagle

Fax Number: 480-998-2106

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane only (8270C)								Special Instructions
EW-195-S-031511	W	40mL / 1L	3 / 2	3/15/11	1400	HCl / -	X	X			PUC1004-01					LEVEL 3

Relinquished By:	Date/Time:	Received By:	Date/Time:
ERM / ERM	3/15 1420		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time: 3/15/11 1420

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓ 0.8°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1004-01 (EW-19S-S-031511 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0791	10	ND	1	3/22/2011	3/22/2011	V1
Benzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromochloromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromodichloromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromoform	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Bromomethane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
2-Butanone (MEK)	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
n-Butylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
sec-Butylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
tert-Butylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Carbon disulfide	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Carbon tetrachloride	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Chlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Chloroethane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Chloroform	EPA 8260B	11C0791	0.50	**0.69**	1	3/22/2011	3/22/2011	
Chloromethane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
2-Chlorotoluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
4-Chlorotoluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Dibromochloromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Dibromomethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Dichlorodifluoromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1-Dichloroethane	EPA 8260B	11C0791	0.50	**1.8**	1	3/22/2011	3/22/2011	
1,2-Dichloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1-Dichloroethene	EPA 8260B	11C0791	0.50	**3.1**	1	3/22/2011	3/22/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0791	0.50	**2.3**	1	3/22/2011	3/22/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2-Dichloropropane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,3-Dichloropropane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
2,2-Dichloropropane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,1-Dichloropropene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Ethylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Hexachlorobutadiene	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	

TestAmerica Phoenix

Kylie Emily
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1004-01 (EW-19S-S-031511 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
Iodomethane	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	L3
Isopropylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
p-Isopropyltoluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Methylene Chloride	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0791	0.50	**2.2**	1	3/22/2011	3/22/2011	
Naphthalene	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
n-Propylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Styrene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Tetrachloroethene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Toluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Trichloroethene	EPA 8260B	11C0791	0.50	**7.8**	1	3/22/2011	3/22/2011	
Trichlorofluoromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Vinyl Acetate	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Vinyl chloride	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Xylenes, Total	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Freon 113	EPA 8260B	11C0791	2.0	ND	1	3/22/2011	3/22/2011	
Surrogate: Dibromofluoromethane (70-130%)				*95 %*				
Surrogate: Toluene-d8 (70-130%)				*89 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)				*87 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1004-01 (EW-19S-S-031511 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	SW8270C	11C0614	1.0	**1.4**	1	3/16/2011	3/18/2011	
Surrogate: 1,4-Dioxane-d8 (20-105%)				*73 %*				
Surrogate: Nitrobenzene-d5 (30-130%)				*83 %*				

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QA/QC DATA PACKAGE: LEVEL III

QUALITY CONTROL SUMMARIES

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Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Blank Analyzed: 03/22/2011 (11C0791-BLK1)										
Acetone	ND	10	ug/l							*VI*
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Blank Analyzed: 03/22/2011 (11C0791-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*22.8*		*ug/l*	*25.0*		*91*	*70-130*			
Surrogate: Toluene-d8	*22.6*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.0*		*ug/l*	*25.0*		*88*	*70-130*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Analyzed: 03/22/2011 (11C0791-BS1)										
Acetone	30.6	10	ug/l	25.0		122	30-150			*VI*
Benzene	20.1	0.50	ug/l	25.0		81	70-130			
Bromobenzene	21.1	0.50	ug/l	25.0		85	70-130			
Bromochloromethane	20.9	0.50	ug/l	25.0		84	70-130			
Bromodichloromethane	21.2	0.50	ug/l	25.0		85	70-130			
Bromoform	22.1	1.0	ug/l	25.0		89	67-122			
Bromomethane	20.8	1.0	ug/l	25.0		83	64-132			
2-Butanone (MEK)	25.6	2.5	ug/l	25.0		103	48-150			
n-Butylbenzene	22.0	0.50	ug/l	25.0		88	70-130			
sec-Butylbenzene	21.0	0.50	ug/l	25.0		84	70-130			
tert-Butylbenzene	21.0	0.50	ug/l	25.0		84	70-130			
Carbon disulfide	29.0	0.50	ug/l	25.0		116	61-126			
Carbon tetrachloride	21.4	0.50	ug/l	25.0		86	70-130			
Chlorobenzene	20.7	0.50	ug/l	25.0		83	70-130			
Chloroethane	21.3	1.0	ug/l	25.0		85	69-128			
Chloroform	20.2	0.50	ug/l	25.0		81	70-130			
Chloromethane	17.5	1.0	ug/l	25.0		70	56-131			
2-Chlorotoluene	20.4	0.50	ug/l	25.0		82	70-130			
4-Chlorotoluene	21.3	0.50	ug/l	25.0		85	70-130			
Dibromochloromethane	21.7	0.50	ug/l	25.0		87	70-130			
1,2-Dibromo-3-chloropropane	21.4	2.5	ug/l	25.0		86	63-129			
1,2-Dibromoethane (EDB)	21.3	0.50	ug/l	25.0		85	70-130			
Dibromomethane	21.1	0.50	ug/l	25.0		84	70-130			
1,2-Dichlorobenzene	20.8	0.50	ug/l	25.0		83	70-130			
1,3-Dichlorobenzene	20.9	0.50	ug/l	25.0		84	70-130			
1,4-Dichlorobenzene	20.9	0.50	ug/l	25.0		83	70-130			
Dichlorodifluoromethane	20.6	0.50	ug/l	25.0		82	42-150			
1,1-Dichloroethane	20.6	0.50	ug/l	25.0		82	70-130			
1,2-Dichloroethane	20.8	0.50	ug/l	25.0		83	72-133			
1,1-Dichloroethene	25.7	0.50	ug/l	25.0		103	70-130			
cis-1,2-Dichloroethene	19.9	0.50	ug/l	25.0		79	70-130			
trans-1,2-Dichloroethene	21.1	0.50	ug/l	25.0		84	70-130			
1,2-Dichloropropane	20.7	0.50	ug/l	25.0		83	70-130			
1,3-Dichloropropane	20.9	0.50	ug/l	25.0		84	70-130			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	70-130			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Analyzed: 03/22/2011 (11C0791-BS1)										
1,1-Dichloropropene	21.0	0.50	ug/l	25.0		84	70-130			
cis-1,3-Dichloropropene	21.4	0.50	ug/l	25.0		86	70-130			
trans-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		89	70-130			
Ethylbenzene	20.7	0.50	ug/l	25.0		83	70-130			
Hexachlorobutadiene	22.0	1.0	ug/l	25.0		88	70-130			
2-Hexanone	24.6	2.5	ug/l	25.0		98	44-150			
Iodomethane	38.3	2.5	ug/l	25.0		153	58-138			*L3*
Isopropylbenzene	22.9	0.50	ug/l	25.0		92	70-130			
p-Isopropyltoluene	21.9	0.50	ug/l	25.0		88	70-130			
Methylene Chloride	24.7	1.0	ug/l	25.0		99	70-130			
4-Methyl-2-pentanone (MIBK)	23.5	2.5	ug/l	25.0		94	61-142			
Methyl-tert-butyl Ether (MTBE)	20.0	0.50	ug/l	25.0		80	70-130			
Naphthalene	24.0	2.5	ug/l	25.0		96	65-129			
n-Propylbenzene	21.8	0.50	ug/l	25.0		87	70-130			
Styrene	21.6	0.50	ug/l	25.0		86	70-130			
1,1,1,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	70-130			
1,1,2,2-Tetrachloroethane	21.4	0.50	ug/l	25.0		86	70-130			
Tetrachloroethene	20.8	0.50	ug/l	25.0		83	70-130			
Toluene	20.2	0.50	ug/l	25.0		81	70-130			
1,2,3-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-130			
1,2,4-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-130			
1,1,1-Trichloroethane	20.9	0.50	ug/l	25.0		84	70-130			
1,1,2-Trichloroethane	21.2	0.50	ug/l	25.0		85	70-130			
Trichloroethene	20.7	0.50	ug/l	25.0		83	70-130			
Trichlorofluoromethane	23.8	0.50	ug/l	25.0		95	78-149			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	21.9	0.50	ug/l	25.0		88	70-130			
1,3,5-Trimethylbenzene	21.4	0.50	ug/l	25.0		86	70-130			
Vinyl Acetate	26.4	1.0	ug/l	25.0		105	57-149			
Vinyl chloride	21.0	0.50	ug/l	25.0		84	66-134			
Xylenes, Total	41.1	1.0	ug/l	50.0		82	70-130			
Freon 113	24.5	2.0	ug/l	25.0		98	63-136			
Surrogate: Dibromofluoromethane	*23.2*		*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*22.6*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.2*		*ug/l*	*25.0*		*89*	*70-130*			

TestAmerica Phoenix

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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Dup Analyzed: 03/22/2011 (11C0791-BSD1)										
Acetone	28.4	10	ug/l	25.0		113	30-150	7	35	*VI*
Benzene	20.0	0.50	ug/l	25.0		80	70-130	0.7	20	
Bromobenzene	22.0	0.50	ug/l	25.0		88	70-130	4	20	
Bromochloromethane	20.8	0.50	ug/l	25.0		83	70-130	0.5	20	
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	70-130	0.9	20	
Bromoform	23.0	1.0	ug/l	25.0		92	67-122	4	20	
Bromomethane	18.3	1.0	ug/l	25.0		73	64-132	13	20	
2-Butanone (MEK)	23.3	2.5	ug/l	25.0		93	48-150	9	33	
n-Butylbenzene	22.0	0.50	ug/l	25.0		88	70-130	0.3	20	
sec-Butylbenzene	21.0	0.50	ug/l	25.0		84	70-130	0.1	20	
tert-Butylbenzene	21.3	0.50	ug/l	25.0		85	70-130	1	20	
Carbon disulfide	23.5	0.50	ug/l	25.0		94	61-126	21	20	*R6*
Carbon tetrachloride	21.2	0.50	ug/l	25.0		85	70-130	1	20	
Chlorobenzene	20.0	0.50	ug/l	25.0		80	70-130	3	20	
Chloroethane	19.9	1.0	ug/l	25.0		79	69-128	7	20	
Chloroform	19.6	0.50	ug/l	25.0		78	70-130	3	20	
Chloromethane	16.5	1.0	ug/l	25.0		66	56-131	6	20	
2-Chlorotoluene	20.6	0.50	ug/l	25.0		82	70-130	0.8	20	
4-Chlorotoluene	21.4	0.50	ug/l	25.0		86	70-130	0.5	20	
Dibromochloromethane	20.8	0.50	ug/l	25.0		83	70-130	4	20	
1,2-Dibromo-3-chloropropane	22.4	2.5	ug/l	25.0		90	63-129	4	25	
1,2-Dibromoethane (EDB)	20.8	0.50	ug/l	25.0		83	70-130	2	20	
Dibromomethane	21.7	0.50	ug/l	25.0		87	70-130	3	20	
1,2-Dichlorobenzene	21.2	0.50	ug/l	25.0		85	70-130	2	20	
1,3-Dichlorobenzene	21.2	0.50	ug/l	25.0		85	70-130	1	20	
1,4-Dichlorobenzene	21.4	0.50	ug/l	25.0		85	70-130	2	20	
Dichlorodifluoromethane	19.2	0.50	ug/l	25.0		77	42-150	7	20	
1,1-Dichloroethane	20.0	0.50	ug/l	25.0		80	70-130	3	20	
1,2-Dichloroethane	20.2	0.50	ug/l	25.0		81	72-133	3	20	
1,1-Dichloroethene	20.0	0.50	ug/l	25.0		80	70-130	25	20	*R6*
cis-1,2-Dichloroethene	19.5	0.50	ug/l	25.0		78	70-130	2	20	
trans-1,2-Dichloroethene	20.3	0.50	ug/l	25.0		81	70-130	4	20	
1,2-Dichloropropane	21.0	0.50	ug/l	25.0		84	70-130	1	20	
1,3-Dichloropropane	20.8	0.50	ug/l	25.0		83	70-130	0.2	20	
2,2-Dichloropropane	20.3	1.0	ug/l	25.0		81	70-130	3	20	

TestAmerica Phoenix

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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Dup Analyzed: 03/22/2011 (11C0791-BSD1)										
1,1-Dichloropropene	20.9	0.50	ug/l	25.0		84	70-130	0.5	20	
cis-1,3-Dichloropropene	21.2	0.50	ug/l	25.0		85	70-130	0.9	20	
trans-1,3-Dichloropropene	21.7	0.50	ug/l	25.0		87	70-130	3	20	
Ethylbenzene	20.0	0.50	ug/l	25.0		80	70-130	3	20	
Hexachlorobutadiene	22.4	1.0	ug/l	25.0		90	70-130	2	20	
2-Hexanone	23.2	2.5	ug/l	25.0		93	44-150	6	31	
Iodomethane	24.8	2.5	ug/l	25.0		99	58-138	43	25	*R1*
Isopropylbenzene	23.3	0.50	ug/l	25.0		93	70-130	2	20	
p-Isopropyltoluene	21.9	0.50	ug/l	25.0		88	70-130	0.05	20	
Methylene Chloride	19.9	1.0	ug/l	25.0		80	70-130	22	20	*R6*
4-Methyl-2-pentanone (MIBK)	23.4	2.5	ug/l	25.0		94	61-142	0.4	22	
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0		80	70-130	0.3	20	
Naphthalene	24.0	2.5	ug/l	25.0		96	65-129	0.1	20	
n-Propylbenzene	21.8	0.50	ug/l	25.0		87	70-130	0.2	20	
Styrene	21.4	0.50	ug/l	25.0		86	70-130	0.9	20	
1,1,1,2-Tetrachloroethane	20.5	0.50	ug/l	25.0		82	70-130	2	20	
1,1,2,2-Tetrachloroethane	21.9	0.50	ug/l	25.0		88	70-130	2	20	
Tetrachloroethene	20.3	0.50	ug/l	25.0		81	70-130	2	20	
Toluene	20.1	0.50	ug/l	25.0		80	70-130	0.8	20	
1,2,3-Trichlorobenzene	23.3	1.0	ug/l	25.0		93	70-130	2	20	
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	70-130	2	20	
1,1,1-Trichloroethane	20.7	0.50	ug/l	25.0		83	70-130	1	20	
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0		82	70-130	3	20	
Trichloroethene	20.2	0.50	ug/l	25.0		81	70-130	3	20	
Trichlorofluoromethane	22.6	0.50	ug/l	25.0		90	78-149	5	20	
1,2,3-Trichloropropane	22.6	1.0	ug/l	25.0		90	70-130	4	20	
1,2,4-Trimethylbenzene	21.7	0.50	ug/l	25.0		87	70-130	1	20	
1,3,5-Trimethylbenzene	21.5	0.50	ug/l	25.0		86	70-130	0.3	20	
Vinyl Acetate	26.1	1.0	ug/l	25.0		104	57-149	1	21	
Vinyl chloride	19.3	0.50	ug/l	25.0		77	66-134	9	20	
Xylenes, Total	39.6	1.0	ug/l	50.0		79	70-130	3	20	
Freon 113	19.3	2.0	ug/l	25.0		77	63-136	24	20	*R6*
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*70-130*			
Surrogate: Toluene-d8	*22.4*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.2*		*ug/l*	*25.0*		*89*	*70-130*			

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Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Analyzed: 03/22/2011 (11C0791-MS1)					**Source: PUC0982-02**					
Acetone	27.2	10	ug/l	25.0	ND	109	10-150			*V1*
Benzene	19.8	0.50	ug/l	25.0	ND	79	70-130			
Bromobenzene	22.0	0.50	ug/l	25.0	ND	88	70-130			
Bromochloromethane	20.5	0.50	ug/l	25.0	ND	82	70-130			
Bromodichloromethane	20.6	0.50	ug/l	25.0	ND	83	70-130			
Bromoform	22.7	1.0	ug/l	25.0	ND	91	62-126			
Bromomethane	18.1	1.0	ug/l	25.0	ND	72	55-136			
2-Butanone (MEK)	23.7	2.5	ug/l	25.0	ND	95	22-150			
n-Butylbenzene	22.2	0.50	ug/l	25.0	ND	89	70-130			
sec-Butylbenzene	21.2	0.50	ug/l	25.0	ND	85	70-130			
tert-Butylbenzene	21.5	0.50	ug/l	25.0	ND	86	70-130			
Carbon disulfide	23.5	0.50	ug/l	25.0	ND	94	56-132			
Carbon tetrachloride	21.5	0.50	ug/l	25.0	ND	86	76-131			
Chlorobenzene	20.6	0.50	ug/l	25.0	ND	82	70-130			
Chloroethane	20.1	1.0	ug/l	25.0	ND	80	67-134			
Chloroform	21.4	0.50	ug/l	25.0	1.44	80	70-130			
Chloromethane	17.4	1.0	ug/l	25.0	ND	70	50-135			
2-Chlorotoluene	20.7	0.50	ug/l	25.0	ND	83	70-130			
4-Chlorotoluene	21.9	0.50	ug/l	25.0	ND	88	70-130			
Dibromochloromethane	21.7	0.50	ug/l	25.0	ND	87	70-130			
1,2-Dibromo-3-chloropropane	21.6	2.5	ug/l	25.0	ND	86	60-135			
1,2-Dibromoethane (EDB)	21.1	0.50	ug/l	25.0	ND	84	70-130			
Dibromomethane	21.5	0.50	ug/l	25.0	ND	86	70-130			
1,2-Dichlorobenzene	21.6	0.50	ug/l	25.0	ND	86	70-130			
1,3-Dichlorobenzene	21.3	0.50	ug/l	25.0	ND	85	70-130			
1,4-Dichlorobenzene	21.8	0.50	ug/l	25.0	ND	87	70-130			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	36-150			
1,1-Dichloroethane	21.6	0.50	ug/l	25.0	1.90	79	70-130			
1,2-Dichloroethane	20.4	0.50	ug/l	25.0	ND	81	68-143			
1,1-Dichloroethene	22.4	0.50	ug/l	25.0	2.71	79	70-130			
cis-1,2-Dichloroethene	21.4	0.50	ug/l	25.0	1.96	78	70-130			
trans-1,2-Dichloroethene	20.2	0.50	ug/l	25.0	ND	81	70-130			
1,2-Dichloropropane	21.2	0.50	ug/l	25.0	ND	85	70-130			
1,3-Dichloropropane	20.6	0.50	ug/l	25.0	ND	83	70-130			
2,2-Dichloropropane	19.9	1.0	ug/l	25.0	ND	79	66-130			

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Analyzed: 03/22/2011 (11C0791-MS1)					**Source: PUC0982-02**					
1,1-Dichloropropene	21.2	0.50	ug/l	25.0	ND	85	70-130			
cis-1,3-Dichloropropene	20.9	0.50	ug/l	25.0	ND	83	70-130			
trans-1,3-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	71-132			
Ethylbenzene	20.6	0.50	ug/l	25.0	ND	83	70-130			
Hexachlorobutadiene	23.0	1.0	ug/l	25.0	ND	92	66-129			
2-Hexanone	24.2	2.5	ug/l	25.0	ND	97	18-150			
Iodomethane	24.2	2.5	ug/l	25.0	ND	97	47-141			
Isopropylbenzene	23.2	0.50	ug/l	25.0	ND	93	78-137			
p-Isopropyltoluene	22.2	0.50	ug/l	25.0	ND	89	70-130			
Methylene Chloride	19.8	1.0	ug/l	25.0	ND	79	74-132			
4-Methyl-2-pentanone (MIBK)	23.1	2.5	ug/l	25.0	ND	92	56-145			
Methyl-tert-butyl Ether (MTBE)	19.9	0.50	ug/l	25.0	0.140	79	67-138			
Naphthalene	22.8	2.5	ug/l	25.0	ND	91	54-135			
n-Propylbenzene	22.0	0.50	ug/l	25.0	ND	88	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	51-123			
1,1,1,2-Tetrachloroethane	20.9	0.50	ug/l	25.0	ND	84	70-130			
1,1,2,2-Tetrachloroethane	22.1	0.50	ug/l	25.0	ND	88	69-133			
Tetrachloroethene	21.2	0.50	ug/l	25.0	0.430	83	70-130			
Toluene	20.1	0.50	ug/l	25.0	ND	80	70-130			
1,2,3-Trichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	70-130			
1,2,4-Trichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	66-126			
1,1,1-Trichloroethane	20.7	0.50	ug/l	25.0	ND	83	76-132			
1,1,2-Trichloroethane	21.2	0.50	ug/l	25.0	ND	85	70-130			
Trichloroethene	28.0	0.50	ug/l	25.0	7.93	80	70-130			
Trichlorofluoromethane	23.9	0.50	ug/l	25.0	0.130	95	74-150			
1,2,3-Trichloropropane	22.1	1.0	ug/l	25.0	ND	88	70-130			
1,2,4-Trimethylbenzene	21.7	0.50	ug/l	25.0	ND	87	70-130			
1,3,5-Trimethylbenzene	21.8	0.50	ug/l	25.0	ND	87	61-138			
Vinyl Acetate	24.4	1.0	ug/l	25.0	ND	98	50-150			
Vinyl chloride	19.0	0.50	ug/l	25.0	ND	76	58-139			
Xylenes, Total	40.7	1.0	ug/l	50.0	ND	81	70-130			
Freon 113	19.4	2.0	ug/l	25.0	ND	78	56-148			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Toluene-d8	*22.9*		*ug/l*	*25.0*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*70-130*			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Dup Analyzed: 03/22/2011 (11C0791-MSD1)					**Source: PUC0982-02**					
Acetone	25.0	10	ug/l	25.0	ND	100	10-150	8	35	*V1*
Benzene	19.9	0.50	ug/l	25.0	ND	80	70-130	0.4	20	
Bromobenzene	22.0	0.50	ug/l	25.0	ND	88	70-130	0.05	20	
Bromochloromethane	20.9	0.50	ug/l	25.0	ND	83	70-130	2	20	
Bromodichloromethane	20.8	0.50	ug/l	25.0	ND	83	70-130	0.8	20	
Bromoform	22.4	1.0	ug/l	25.0	ND	89	62-126	2	20	
Bromomethane	18.4	1.0	ug/l	25.0	ND	73	55-136	1	24	
2-Butanone (MEK)	23.1	2.5	ug/l	25.0	ND	92	22-150	2	31	
n-Butylbenzene	21.9	0.50	ug/l	25.0	ND	88	70-130	1	20	
sec-Butylbenzene	21.1	0.50	ug/l	25.0	ND	84	70-130	0.6	20	
tert-Butylbenzene	21.0	0.50	ug/l	25.0	ND	84	70-130	2	20	
Carbon disulfide	23.0	0.50	ug/l	25.0	ND	92	56-132	2	20	
Carbon tetrachloride	21.0	0.50	ug/l	25.0	ND	84	76-131	2	20	
Chlorobenzene	20.4	0.50	ug/l	25.0	ND	82	70-130	0.9	20	
Chloroethane	19.9	1.0	ug/l	25.0	ND	80	67-134	0.7	20	
Chloroform	21.4	0.50	ug/l	25.0	1.44	80	70-130	0.05	20	
Chloromethane	18.1	1.0	ug/l	25.0	ND	72	50-135	4	20	
2-Chlorotoluene	20.6	0.50	ug/l	25.0	ND	83	70-130	0.3	20	
4-Chlorotoluene	21.6	0.50	ug/l	25.0	ND	86	70-130	1	20	
Dibromochloromethane	21.7	0.50	ug/l	25.0	ND	87	70-130	0.09	20	
1,2-Dibromo-3-chloropropane	22.9	2.5	ug/l	25.0	ND	91	60-135	6	29	
1,2-Dibromoethane (EDB)	22.0	0.50	ug/l	25.0	ND	88	70-130	4	20	
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	70-130	0.5	20	
1,2-Dichlorobenzene	21.4	0.50	ug/l	25.0	ND	85	70-130	1	20	
1,3-Dichlorobenzene	20.9	0.50	ug/l	25.0	ND	84	70-130	2	20	
1,4-Dichlorobenzene	21.2	0.50	ug/l	25.0	ND	85	70-130	3	20	
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	36-150	0.05	22	
1,1-Dichloroethane	21.7	0.50	ug/l	25.0	1.90	79	70-130	0.6	20	
1,2-Dichloroethane	20.3	0.50	ug/l	25.0	ND	81	68-143	0.2	20	
1,1-Dichloroethene	22.3	0.50	ug/l	25.0	2.71	78	70-130	0.7	20	
cis-1,2-Dichloroethene	21.1	0.50	ug/l	25.0	1.96	77	70-130	1	20	
trans-1,2-Dichloroethene	20.3	0.50	ug/l	25.0	ND	81	70-130	0.2	20	
1,2-Dichloropropane	20.8	0.50	ug/l	25.0	ND	83	70-130	2	20	
1,3-Dichloropropane	21.1	0.50	ug/l	25.0	ND	84	70-130	2	20	
2,2-Dichloropropane	19.5	1.0	ug/l	25.0	ND	78	66-130	2	20	

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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Dup Analyzed: 03/22/2011 (11C0791-MSD1)					**Source: PUC0982-02**					
1,1-Dichloropropene	20.6	0.50	ug/l	25.0	ND	82	70-130	3	20	
cis-1,3-Dichloropropene	20.6	0.50	ug/l	25.0	ND	82	70-130	1	20	
trans-1,3-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	71-132	0.2	20	
Ethylbenzene	20.5	0.50	ug/l	25.0	ND	82	70-130	0.7	20	
Hexachlorobutadiene	21.9	1.0	ug/l	25.0	ND	88	66-129	5	21	
2-Hexanone	25.1	2.5	ug/l	25.0	ND	100	18-150	3	25	
Iodomethane	24.5	2.5	ug/l	25.0	ND	98	47-141	0.9	29	
Isopropylbenzene	23.1	0.50	ug/l	25.0	ND	92	78-137	0.3	20	
p-Isopropyltoluene	21.8	0.50	ug/l	25.0	ND	87	70-130	2	20	
Methylene Chloride	20.2	1.0	ug/l	25.0	ND	81	74-132	1	20	
4-Methyl-2-pentanone (MIBK)	22.9	2.5	ug/l	25.0	ND	92	56-145	0.9	26	
Methyl-tert-butyl Ether (MTBE)	20.3	0.50	ug/l	25.0	0.140	81	67-138	2	21	
Naphthalene	24.5	2.5	ug/l	25.0	ND	98	54-135	7	33	
n-Propylbenzene	21.9	0.50	ug/l	25.0	ND	88	70-130	0.3	20	
Styrene	19.7	0.50	ug/l	25.0	ND	79	51-123	1	21	
1,1,1,2-Tetrachloroethane	20.5	0.50	ug/l	25.0	ND	82	70-130	2	20	
1,1,2,2-Tetrachloroethane	22.5	0.50	ug/l	25.0	ND	90	69-133	2	20	
Tetrachloroethene	21.1	0.50	ug/l	25.0	0.430	83	70-130	0.5	20	
Toluene	20.1	0.50	ug/l	25.0	ND	81	70-130	0.3	20	
1,2,3-Trichlorobenzene	24.0	1.0	ug/l	25.0	ND	96	70-130	2	20	
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0	ND	97	66-126	3	20	
1,1,1-Trichloroethane	20.4	0.50	ug/l	25.0	ND	82	76-132	1	20	
1,1,2-Trichloroethane	21.3	0.50	ug/l	25.0	ND	85	70-130	0.3	20	
Trichloroethene	28.2	0.50	ug/l	25.0	7.93	81	70-130	0.4	20	
Trichlorofluoromethane	23.6	0.50	ug/l	25.0	0.130	94	74-150	1	20	
1,2,3-Trichloropropane	22.5	1.0	ug/l	25.0	ND	90	70-130	2	20	
1,2,4-Trimethylbenzene	21.5	0.50	ug/l	25.0	ND	86	70-130	0.7	20	
1,3,5-Trimethylbenzene	21.2	0.50	ug/l	25.0	ND	85	61-138	3	33	
Vinyl Acetate	24.1	1.0	ug/l	25.0	ND	96	50-150	1	23	
Vinyl chloride	19.2	0.50	ug/l	25.0	ND	77	58-139	1	21	
Xylenes, Total	40.4	1.0	ug/l	50.0	ND	81	70-130	0.9	20	
Freon 113	19.2	2.0	ug/l	25.0	ND	77	56-148	1	22	
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*70-130*			
Surrogate: Toluene-d8	*22.4*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*70-130*			

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Project Manager

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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0614 Extracted: 03/16/11										
Blank Analyzed: 03/18/2011 (11C0614-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.6*		*ug/l*	*20.0*		*73*	*20-105*			
Surrogate: Nitrobenzene-d5	*16.2*		*ug/l*	*20.0*		*81*	*30-130*			
LCS Analyzed: 03/18/2011 (11C0614-BS1)										
1,4-Dioxane	20.9	1.0	ug/l	20.0		105	85-115			
Surrogate: 1,4-Dioxane-d8	*14.7*		*ug/l*	*20.0*		*74*	*30-105*			
Surrogate: Nitrobenzene-d5	*16.6*		*ug/l*	*20.0*		*83*	*35-140*			
LCS Dup Analyzed: 03/18/2011 (11C0614-BSD1)										
1,4-Dioxane	20.9	1.0	ug/l	20.0		105	85-115	0.05	20	
Surrogate: 1,4-Dioxane-d8	*15.3*		*ug/l*	*20.0*		*76*	*30-105*			
Surrogate: Nitrobenzene-d5	*17.2*		*ug/l*	*20.0*		*86*	*35-140*			
Matrix Spike Analyzed: 03/18/2011 (11C0614-MS1)					**Source: PUC0982-02**					
1,4-Dioxane	22.6	1.0	ug/l	20.0	1.54	105	70-125			
Surrogate: 1,4-Dioxane-d8	*15.2*		*ug/l*	*20.0*		*76*	*20-105*			
Surrogate: Nitrobenzene-d5	*16.7*		*ug/l*	*20.0*		*84*	*30-130*			
Matrix Spike Analyzed: 03/18/2011 (11C0614-MS2)					**Source: PUC0911-02**					
1,4-Dioxane	21.3	1.0	ug/l	20.0	0.380	104	70-125			
Surrogate: 1,4-Dioxane-d8	*27.1*		*ug/l*	*20.0*		*135*	*20-105*			*N1, S4*
Surrogate: Nitrobenzene-d5	*33.6*		*ug/l*	*20.0*		*168*	*30-130*			*N1, S4*
Matrix Spike Dup Analyzed: 03/18/2011 (11C0614-MSD1)					**Source: PUC0982-02**					
1,4-Dioxane	22.2	1.0	ug/l	20.0	1.54	104	70-125	1	20	
Surrogate: 1,4-Dioxane-d8	*14.6*		*ug/l*	*20.0*		*73*	*20-105*			
Surrogate: Nitrobenzene-d5	*17.3*		*ug/l*	*20.0*		*87*	*30-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1004

Sampled: 03/15/11
Received: 03/15/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0614 Extracted: 03/16/11										
Matrix Spike Dup Analyzed: 03/18/2011 (11C0614-MSD2)					**Source: PUC0911-02**					
1,4-Dioxane	21.5	1.0	ug/l	20.0	0.380	106	70-125	1	20	
Surrogate: 1,4-Dioxane-d8	*14.0*		*ug/l*	*20.0*		*70*	*20-105*			
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*84*	*30-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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Sampled: 03/15/11
Received: 03/15/11

DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
N1	See case narrative.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
S4	Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

TestAmerica Phoenix

Kylie Emily
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Sampled: 03/15/11
Received: 03/15/11

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
SW8270C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD: 8260B

DATE: 03/17/2011

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Volatiles	Method: 8260B	Instrument #: GCMS 7
Analyst: LC		Analysis Date: 03/17/11

Method name saved in the file:

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9), 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)

   If yes, what points were removed or replaced: lowest middle highest

   Why?

4. Were any individual analyte points removed? (Y) N

   If yes, what points were removed or replaced: (lowest) middle (highest)

   List of the analytes: Acetone, Methylene chloride, MEK, 2-CEVE, MIBK, 2-Hexanone, 1,2-Dibromo-3-chloropropane, Naphthalene

   Why? LRL, Curve Fit

5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☑ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☑ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst:	Date: 03/18/11
	Reviewer:	Date: 3/11/11

Attachment 2
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-011 R.0
VOCs in Vapor [Method No. 8260B AZ Method]

Analysis Date: 03/17/11 | Analyst: LC

Description	Yes	No	NA[1]
1. BFB (50 ng or less): Verify meets criteria very 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.M	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:			
- Second source within historical limits	✓	✓	(1)
- Tertiary source within 50 – 150% recovery	✓		
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓		
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)			N/A
- Must be analyzed per 20 samples/per matrix/per batch			
- LCS/LSCD recoveries within historical limits			
- RPD ≤ 25%			
- Surrogates within historical limits			
6. Samples			
- Analyzed within 72 hours of sampling			
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL			
- Surrogate recoveries within historical limits			
- Sample Duplicate performed every 10 samples			

Comments:
(1) Bromomethane – NI – See CAR

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:	Analyst: [signature]	Date: 03/18/11
	Reviewer: [signature]	Date: 3/18/11

[1] NA: Not Applicable

TestAmerica
Phoenix

Instrument ID	GCMS 7
Date:	03/17/11
Analyst	LC
Method(s)	8260B
50 ppm Cal. Std.	PU01525
2.5 ppm Cal. Std.	PU01528
500 / 250 ppm EtOH/TBA Cal. Std.	N/A
50 / 25 ppm EtOH/TBA Cal. Std.	N/A
50 ppm SS Std.	PU01537
500 / 250 ppm EtOH/TBA SS Std.	N/A

3° Gas: PT06459

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibra-tion Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: [signature] Date: 3/18/11

LC 03/18/11

Response Factor Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

Calibration File
0.5 =03171106.D 1.0 =03171107.D 2.0 =03171108.D 5.0 =03171109.D
25.0 =03171111.D 50.0 =03171112.D 100. =03171113.D 200. =03171114.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD	
	ISTD												
I	Pentafluorobenzene	1.278	1.131	1.176	1.343	1.199	1.217	1.132	1.112	1.041	1.181	7.72	
T	Dichlorodifluoromethane	1.965	1.722	1.705	2.115	2.031	1.963	1.991	2.043	2.039	1.953	7.34	
TMP	Chloromethane	1.791	1.789	1.668	1.817	1.677	1.725	1.728	1.753	1.700	1.739	3.03	
TMC	Vinyl chloride	0.920	0.793	0.521	0.711	0.801	0.859	0.858	0.916	0.940	0.813	16.17	Linear r^2= 0.997
TM	Bromomethane	1.005	1.039	0.879	0.958	0.956	0.913	0.871	0.834	0.839	0.922	7.88	
TM	Chloroethane	1.302	1.243	1.207	1.370	1.280	1.303	0.986	0.997	1.191	1.209	11.13	
TM	Trichlorofluoromethane			0.374	0.261	0.172	0.158	0.128	0.120	0.141	0.194	47.71	Linear r^2= 0.991
T	Acetone	0.379	0.589	0.400	0.584	0.546	0.597	0.565	0.561	0.556	0.531	15.44	Linear r^2= 0.999
T	Iodomethane	0.860	0.836	0.621	0.721	0.703	0.678	0.638	0.643	0.644	0.705	12.41	
TMC	1,1-Dichloroethene		1.032	0.802	0.901	0.831	0.804	0.764	0.757	0.744	0.830	11.53	
TM	Methylene chloride	1.047	0.958	0.765	0.861	0.786	0.813	0.761	0.768	0.755	0.835	12.34	
	Freon 113	2.991	2.718	2.262	2.705	2.441	2.445	2.339	2.359	2.318	2.509	9.68	
T	Carbon disulfide	0.822	0.931	0.715	0.835	0.766	0.772	0.720	0.735	0.725	0.780	9.14	
TM	trans-1,2-Dichloroethene	1.501	1.617	1.243	1.449	1.271	1.308	1.179	1.227	1.204	1.333	11.45	
T	MTBE	1.773	1.868	1.535	1.752	1.632	1.610	1.498	1.506	1.474	1.628	8.66	
TMP	1,1-Dichloroethane	1.436	1.510	1.090	1.380	1.226	1.231	1.161	1.181	1.162	1.264	11.34	
T	Vinyl acetate			0.013	0.037	0.040	0.042	0.040	0.040	0.040	0.036#	27.95	Linear r^2= 0.999
T	2-Butanone (MEK)	0.915	0.789	0.816	0.898	0.803	0.800	0.745	0.754	0.751	0.808	7.61	
T	cis-1,2-Dichloroethene	0.338	0.306	0.271	0.338	0.314	0.289	0.279	0.273	0.253	0.296	10.21	
T	Bromochloromethane	1.474	1.291	1.359	1.505	1.426	1.329	1.229	1.253	1.222	1.343	7.86	
TMC	Chloroform	1.151	1.062	1.049	1.207	1.108	1.096	1.056	1.056	1.014	1.089	5.45	
T	2,2-Dichloropropane	0.743	0.594	0.581	0.695	0.640	0.629	0.585	0.607	0.588	0.629	8.90	
S	Dibromofluoromethane	0.873	0.905	0.802	0.893	0.804	0.830	0.757	0.772	0.740	0.820	7.31	
TM	1,2-Dichloroethane	0.981	0.938	0.900	1.069	0.997	0.987	0.937	0.942	0.927	0.964	5.23	
TM	1,1,1-Trichloroethane												
	ISTD												
I	1,4-Difluorobenzene	0.676	0.609	0.621	0.674	0.653	0.658	0.630	0.618	0.620	0.640	4.00	
T	1,1-Dichloropropene	0.426	0.417	0.414	0.477	0.459	0.458	0.442	0.442	0.440	0.442	4.67	
TM	Carbon tetrachloride	1.854	1.747	1.665	1.787	1.702	1.685	1.664	1.658	1.636	1.711	4.18	
TM	Benzene	0.220	0.217	0.194	0.215	0.208	0.199	0.193	0.191	0.186	0.202	6.23	
T	Dibromomethane	0.525	0.461	0.462	0.521	0.468	0.481	0.465	0.464	0.454	0.478	5.57	
TMC	1,2-Dichloropropane	0.455	0.415	0.412	0.467	0.422	0.428	0.421	0.419	0.412	0.428	4.61	
TM	Trichloroethene	0.507	0.483	0.464	0.551	0.511	0.518	0.496	0.501	0.491	0.502	4.85	
TM	Bromodichloromethane			0.111	0.123	0.108	0.100	0.086	0.080		0.101	15.92	Linear r^2=0.990
T	2-Chlorovinylethylether	0.588	0.595	0.568	0.665	0.626	0.630	0.602	0.611	0.602	0.610	4.62	
TM	cis-1,3-Dichloropropene												

M 1/1/11

LC 03/18/11

	4-Methyl-2-pentanone (MIBK)	0.296	0.223	0.257	0.245	0.246	0.237	0.250	0.244	0.250	8.48
TM	trans-1,3-Dichloropropene	0.429	0.486	0.437	0.505	0.482	0.485	0.478	0.470	0.463	0.471	5.22
TM	1,1,2-Trichloroethane	0.230	0.224	0.221	0.244	0.234	0.228	0.218	0.221	0.216	0.226	3.97
S	Toluene-d8	1.506	1.274	1.214	1.274	1.213	1.236	1.199	1.217	1.214	1.261	7.60
TMC	Toluene	1.070	0.895	0.962	1.017	0.968	0.969	0.963	0.955	0.954	0.973	4.92
	ISTD											
I	Chlorobenzene-d5	0.535	0.569	0.533	0.642	0.578	0.578	0.552	0.560	0.543	0.566	5.90
T	1,3-Dichloropropane			0.153	0.215	0.180	0.183	0.192	0.202	0.194	0.189	10.33
T	2-Hexanone	0.421	0.294	0.319	0.347	0.331	0.338	0.336	0.340	0.336	0.340	10.04
TM	Dibromochloromethane	0.265	0.251	0.278	0.321	0.291	0.290	0.283	0.293	0.282	0.284	6.84
T	1,2-Dibromoethane	0.491	0.416	0.421	0.457	0.454	0.451	0.444	0.454	0.448	0.448	4.86
TM	Tetrachloroethene	0.419	0.370	0.348	0.372	0.362	0.362	0.359	0.370	0.370	0.370	5.34
T	1,1,1,2-Tetrachloroethane	1.278	1.127	1.115	1.215	1.160	1.173	1.147	1.185	1.173	1.175	4.18
TMP	Chlorobenzene	2.432	2.116	2.077	2.272	2.199	2.221	2.180	2.235	2.188	2.214	4.57
TMC	Ethylbenzene	0.914	0.710	0.745	0.803	0.758	0.769	0.749	0.770	0.760	0.775	7.43
T	m,p-Xylenes	1.044	1.064	1.123	1.265	1.177	1.217	1.199	1.239	1.255	1.176	6.94
T	Styrene	0.865	0.741	0.720	0.770	0.734	0.734	0.728	0.747	0.744	0.754	5.84
T	o-Xylene	0.666	0.563	0.532	0.559	0.520	0.531	0.517	0.534	0.509	0.548	8.71
S	4-Bromofluorobenzene											
	ISTD											
	1,4-Dichlorobenzene-d4	0.346	0.342	0.330	0.398	0.372	0.377	0.377	0.381	0.334	0.362	6.65
TMP	Bromoform	0.776	0.777	0.741	0.769	0.759	0.732	0.718	0.714	0.603	0.732	7.38
TMP	1,1,2,2-Tetrachloroethane	0.119	0.178	0.161	0.182	0.165	0.168	0.160	0.158	0.143	0.159	11.89
T	1,2,3-Trichloropropane	4.005	3.607	3.797	3.945	4.018	3.966	3.899	3.859	3.357	3.828	5.68
T	Isopropylbenzene	0.821	0.849	0.879	0.932	0.930	0.936	0.909	0.898	0.795	0.883	5.79
T	Bromobenzene	5.622	5.275	5.271	5.811	5.709	5.635	5.518	5.473	4.873	5.465	5.26
T	n-Propylbenzene	3.635	3.131	3.065	3.274	3.275	3.246	3.176	3.139	2.874	3.202	6.40
T	2-Chlorotoluene	3.455	2.901	3.111	3.329	3.224	3.287	3.194	3.123	2.942	3.174	5.61
T	4-Chlorotoluene	3.482	3.055	3.159	3.421	3.445	3.402	3.291	3.314	3.201	3.308	4.40
T	1,3,5-Trimethylbenzene	2.867	2.682	2.696	2.874	2.922	2.887	2.853	2.812	2.753	2.816	3.07
T	tert-Butylbenzene	3.429	3.228	3.251	3.411	3.407	3.411	3.331	3.302	3.155	3.325	2.94
T	1,2,4-Trimethylbenzene	4.909	4.685	4.781	4.988	4.889	4.960	4.835	4.770	4.628	4.827	2.53
T	sec-Butylbenzene	1.922	1.696	1.781	1.842	1.831	1.832	1.788	1.772	1.732	1.800	3.69
TM	1,3-Dichlorobenzene	2.018	1.817	1.769	1.830	1.781	1.799	1.774	1.772	1.748	1.812	4.50
TM	1,4-Dichlorobenzene	3.621	3.386	3.554	3.772	3.840	3.866	3.737	3.736	3.694	3.690	4.07
T	p-Isopropyltoluene	1.676	1.479	1.524	1.652	1.572	1.593	1.551	1.529	1.511	1.565	4.17
TM	1,2-Dichlorobenzene	4.083	3.836	3.893	4.307	4.176	4.341	4.160	4.146	4.018	4.107	4.15
T	n-Butylbenzene		0.086	0.108	0.092	0.106	0.101	0.097	0.096	0.094	0.098#	7.23
T	1,2-Dibromo-3-chloropropane	0.920	1.036	0.925	1.051	0.955	1.090	1.036	1.068	1.017	1.011	6.18
T	1,2,4-Trichlorobenzene		1.322	1.200	1.403	1.267	1.459	1.356	1.419	1.298	1.341	6.41
T	Naphthalene	0.624	0.630	0.633	0.635	0.661	0.684	0.649	0.662	0.632	0.646	3.07
T	Hexachlorobutadiene	0.835	0.763	0.778	0.889	0.792	0.905	0.830	0.863	0.763	0.824	6.51
T	1,2,3-Trichlorobenzene											

(#) = Out of Range

031711.M Thu Mar 17 14:51:40 2011

M

LC

Calibration Status Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D
2	1.0	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
3	2.0	2	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
4	5.0	5	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
5	10.0	10	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
6	25.0	25	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
7	50.0	50	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
8	100.	100	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
9	200.	200	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Mar 17 14:03 2011	Mar 17 13:56 2011	17 Mar 2011 9:12 am
2	1.0	Mar 17 14:03 2011	Mar 17 13:57 2011	17 Mar 2011 9:43 am
3	2.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:14 am
4	5.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:45 am
5	10.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:15 am
6	25.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:46 am
7	50.0	Mar 17 14:04 2011	Mar 17 14:01 2011	17 Mar 2011 12:17 pm
8	100.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 12:48 pm
9	200.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 1:19 pm

031711.M Thu Mar 17 14:51:31 2011

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Compound List Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
Total Cpnds : 76

PK#			Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I		Pentafluorobenzene	168	10.60	1.000	A	0	A	L
2		T	Dichlorodifluoromethane	85	4.60	0.434	A	2	A	B
3		T	Chloromethane	50	4.89	0.461	A	1	A	B
4		T	Vinyl chloride	62	5.18	0.489	A	1	A	B
5		T	Bromomethane	94	5.78	0.545	L	1	A	B
6		T	Chloroethane	64	5.98	0.564	A	1	A	B
7		T	Trichlorofluoromethane	101	6.78	0.639	A	1	A	L
8		T	Acetone	43	6.94	0.654	L	1	A	L
9		T	Iodomethane	142	7.57	0.714	L	1	A	B
10		T	1,1-Dichloroethene	96	7.51	0.708	A	2	A	B
11		T	Methylene chloride	84	7.71	0.727	A	2	A	B
12			Freon 113	101	7.77	0.733	A	2	A	B
13		T	Carbon disulfide	76	8.03	0.757	A	0	A	B
14		T	trans-1,2-Dichloroethene	96	8.59	0.810	A	2	A	B
15		T	MTBE	73	8.74	0.824	A	1	A	B
16		T	1,1-Dichloroethane	63	8.92	0.841	A	2	A	B
17		T	Vinyl acetate	43	9.08	0.857	A	1	A	L
18		T	2-Butanone (MEK)	72	9.47	0.893	L	1	A	B
19		T	cis-1,2-Dichloroethene	96	9.66	0.911	A	2	A	B
20		T	Bromochloromethane	128	9.87	0.931	A	2	A	B
21		T	Chloroform	83	9.93	0.936	A	1	A	B
22		T	2,2-Dichloropropane	77	10.04	0.947	A	1	A	B
23		S	Dibromofluoromethane	113	10.09	0.951	A	0	A	B
24		T	1,2-Dichloroethane	62	10.78	1.017	A	1	A	B
25		T	1,1,1-Trichloroethane	97	10.91	1.029	A	2	A	B
26	I		1,4-Difluorobenzene	114	11.73	1.000	A	1	A	B
27		T	1,1-Dichloropropene	75	11.15	0.950	A	2	A	B
28		T	Carbon tetrachloride	117	11.39	0.971	A	1	A	B
29		T	Benzene	78	11.44	0.976	A	1	A	B
30		T	Dibromomethane	93	12.17	1.037	A	2	A	B
31		T	1,2-Dichloropropane	63	12.21	1.041	A	1	A	B
32		T	Trichloroethene	95	12.27	1.046	A	2	A	B
33		T	Bromodichloromethane	83	12.33	1.051	A	2	A	B
34		T	2-Chlorovinylethylether	63	12.86	1.097	L	1	A	B
35		T	cis-1,3-Dichloropropene	75	13.16	1.122	A	1	A	B
36			4-Methyl-2-pentanone (MIBK)	43	13.31	1.135	A	2	A	B
37		T	trans-1,3-Dichloropropene	75	13.73	1.171	A	1	A	B
38		T	1,1,2-Trichloroethane	83	13.95	1.189	A	2	A	B
39		S	Toluene-d8	98	14.12	1.204	A	0	A	B
40		T	Toluene	92	14.21	1.212	A	1	A	B
41	I		Chlorobenzene-d5	117	16.07	1.000	A	0	A	B
42		T	1,3-Dichloropropane	76	14.27	0.888	A	1	A	B
43		T	2-Hexanone	43	14.47	0.900	A	2	A	B
44		T	Dibromochloromethane	129	14.64	0.911	A	1	A	B
45		T	1,2-Dibromoethane	107	14.98	0.932	A	2	A	B
46		T	Tetrachloroethene	166	15.21	0.946	A	2	A	B
47		T	1,1,1,2-Tetrachloroethane	131	16.01	0.996	A	2	A	B
48		T	Chlorobenzene	112	16.12	1.003	A	2	A	B
49		T	Ethylbenzene	91	16.37	1.019	A	1	A	B
50		T	m,p-Xylenes	106	16.64	1.035	A	1	A	B
51		T	Styrene	104	17.09	1.064	A	1	A	B
52		T	o-Xylene	106	17.19	1.070	A	1	A	B
53		S	4-Bromofluorobenzene	95	17.75	1.105	A	2	A	B
54			1,4-Dichlorobenzene-d4	152	19.53	1.000	A	2	A	B
55		T	Bromoform	173	16.81	0.861	A	1	A	B
56		T	1,1,2,2-Tetrachloroethane	83	17.18	0.879	A	2	A	B
57		T	1,2,3-Trichloropropane	110	17.38	0.890	A	1	A	B
58		T	Isopropylbenzene	105	17.69	0.906	A	1	A	B
59		T	Bromobenzene	156	18.05	0.924	A	2	A	B

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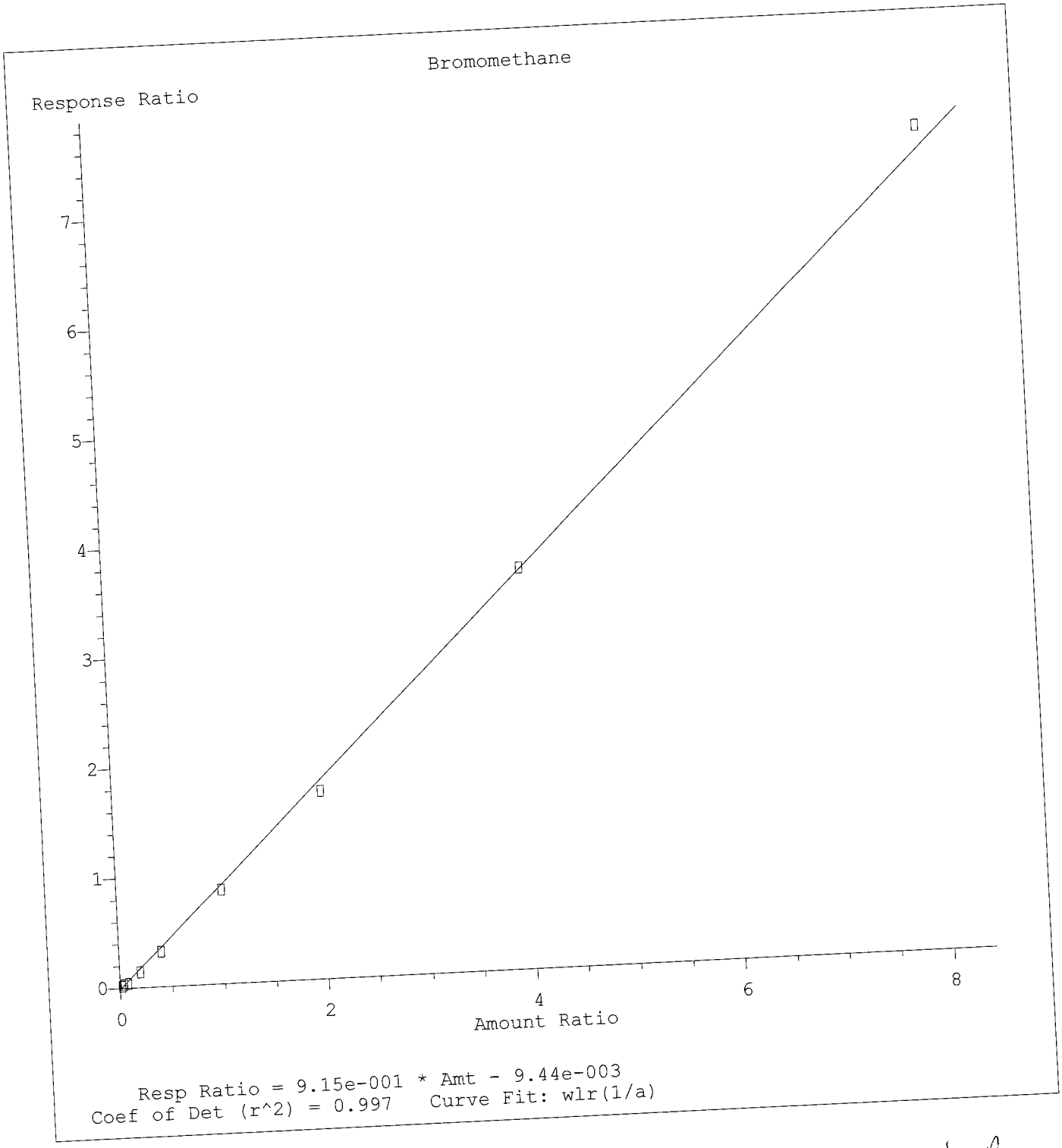
60	T	n-Propylbenzene	91	18.30	0.937	A	1	A	B
61	T	2-Chlorotoluene	91	18.44	0.944	A	1	A	R
62	T	4-Chlorotoluene	91	18.55	0.949	A	1	A	R
63	T	1,3,5-Trimethylbenzene	105	18.70	0.957	A	1	A	B
64	T	tert-Butylbenzene	119	19.09	0.977	A	1	A	B
65	T	1,2,4-Trimethylbenzene	105	19.23	0.984	A	1	A	B
66	T	sec-Butylbenzene	105	19.37	0.992	A	1	A	B
67	T	1,3-Dichlorobenzene	146	19.48	0.997	A	2	A	R
68	T	1,4-Dichlorobenzene	146	19.57	1.002	A	2	A	R
69	T	p-Isopropyltoluene	119	19.61	1.004	A	2	A	B
70	T	1,2-Dichlorobenzene	146	20.02	1.025	A	2	A	B
71	T	n-Butylbenzene	91	20.12	1.030	A	1	A	B
72	T	1,2-Dibromo-3-chloropropane	157	20.58	1.054	A	1	A	B
73	T	1,2,4-Trichlorobenzene	180	22.28	1.141	A	1	A	B
74	T	Naphthalene	128	22.63	1.158	A	0	A	B
75	T	Hexachlorobutadiene	225	22.68	1.161	A	1	A	B
76	T	1,2,3-Trichlorobenzene	180	22.90	1.172	A	1	A	B

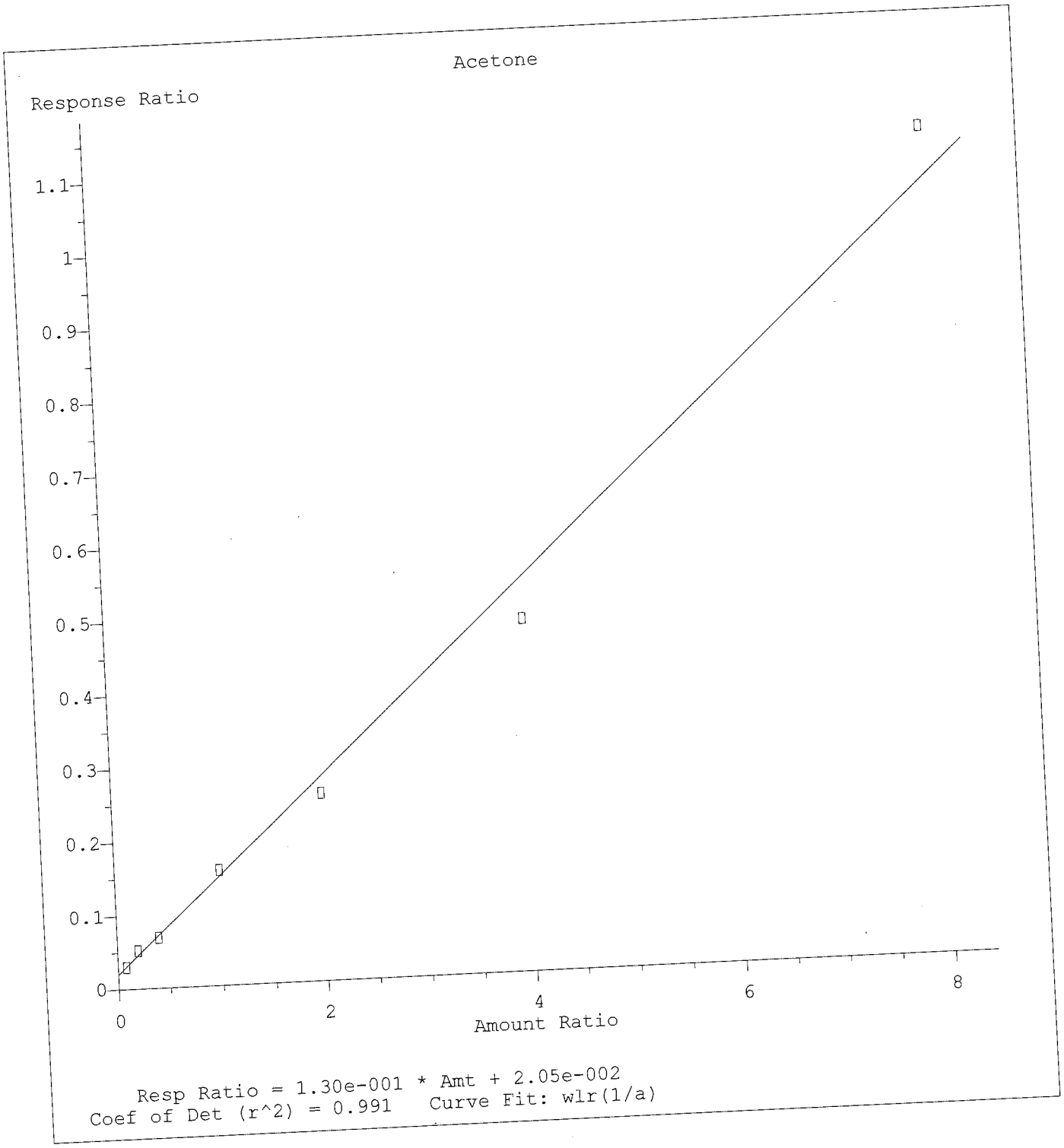
Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031711.M Thu Mar 17 14:51:24 2011



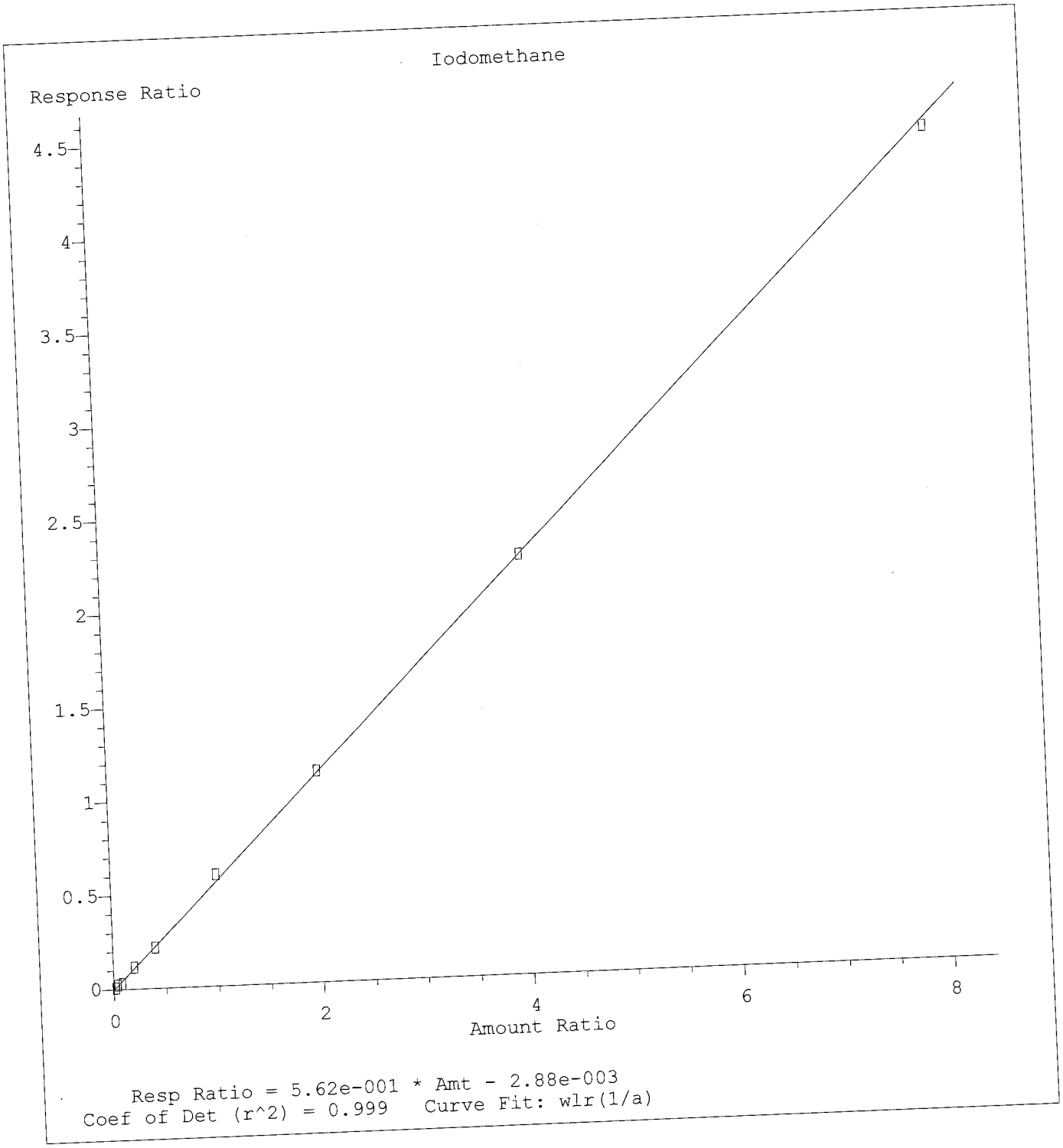
Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

LC 03/18/11



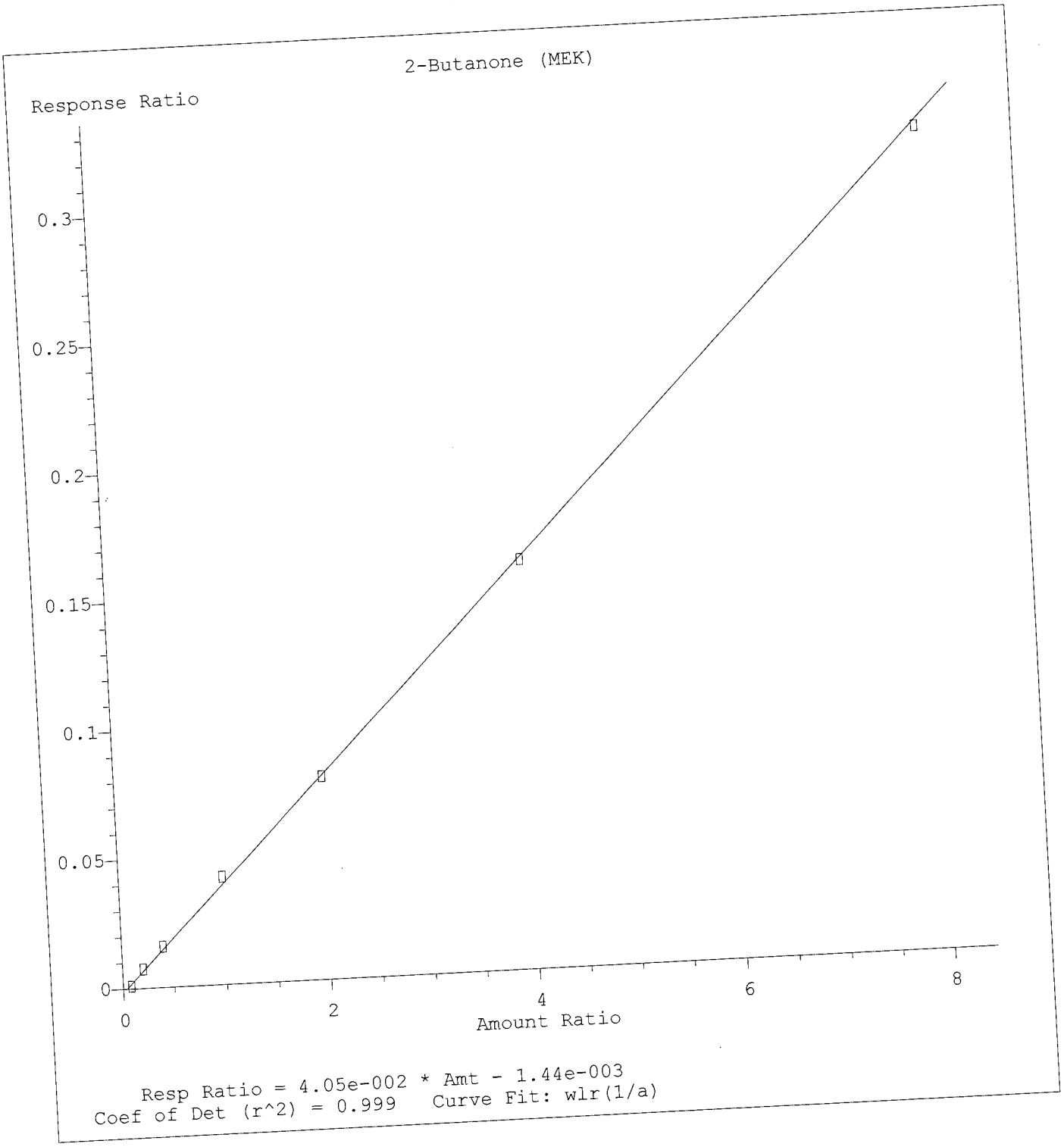
Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

3/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

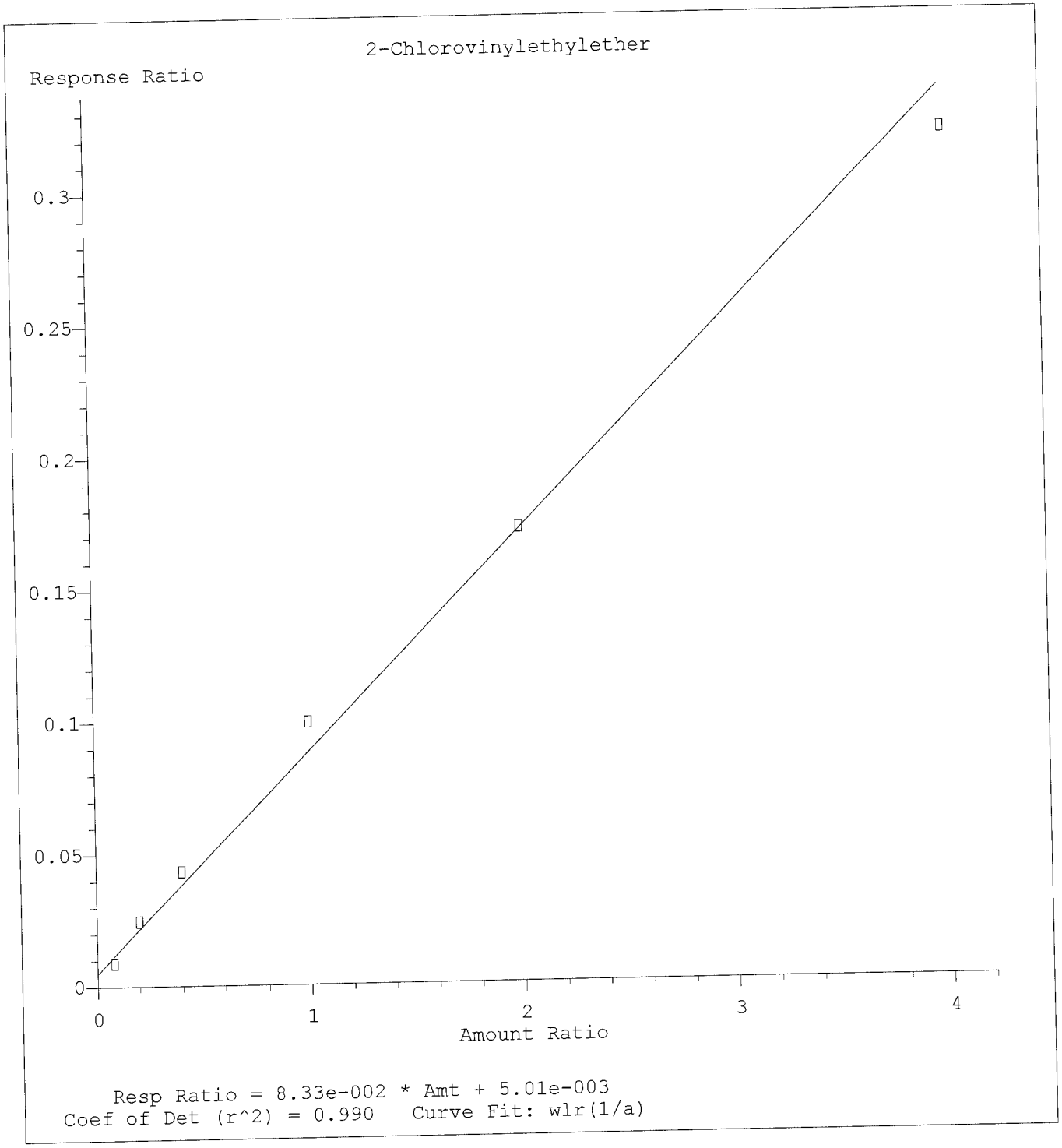
MS 4/1/2011
LC 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

m 4/1/11

LC 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

m/z/11 LC 03/18/11

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\031711

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03171101.d	1.	TUNE		17 Mar 2011 06:59
2	1	03171102.d	1.	TUNE		17 Mar 2011 07:16
3	16	03171103.d	1.	25 PPB CCV		17 Mar 2011 07:36
4	1	03171104.d	1.	BLANK		17 Mar 2011 08:10
5	2	03171105.d	1.	BLANK		17 Mar 2011 08:41
6	3	03171106.d	1.	0.5 PPB		17 Mar 2011 09:12
7	4	03171107.d	1.	1.0 PPB		17 Mar 2011 09:43
8	5	03171108.d	1.	2.0 PPB		17 Mar 2011 10:14
9	6	03171109.d	1.	5.0 PPB		17 Mar 2011 10:45
10	7	03171110.d	1.	10 PPB		17 Mar 2011 11:15
11	8	03171111.d	1.	25 PPB		17 Mar 2011 11:46
12	9	03171112.d	1.	50 PPB		17 Mar 2011 12:17
13	10	03171113.d	1.	100 PPB		17 Mar 2011 12:48
14	12	03171114.d	1.	200 PPB		17 Mar 2011 13:19
15	13	03171115.d	1.	SS		17 Mar 2011 13:50
16	16	03171116.d	1.	TERTIARY GAS		17 Mar 2011 14:20
17	1	03171117.d	1.	TUNE		17 Mar 2011 14:47
18	1	03171118.d	1.	25 PPB CCV		17 Mar 2011 15:06
19	2	03171119.d	1.	-BS1		17 Mar 2011 15:37
20	3	03171120.d	1.	-BSD1		17 Mar 2011 16:07
21	4	03171121.d	1.	-BLK1		17 Mar 2011 16:38
22	5	03171122.d	1.	PUC1019-01@16:20		17 Mar 2011 17:09
23	6	03171123.d	1.	PUC1019-02@16:22		17 Mar 2011 17:40
24	7	03171124.d	1.	PUC1025-02@16:25		17 Mar 2011 18:10
25	8	03171125.d	1.	PUC1025-01	5X	17 Mar 2011 18:41
26	9	03171126.d	1.	PUC1025-01	1X	17 Mar 2011 19:12
27	13	03171127.d	1.	PUC1025-01DUP1	1X	17 Mar 2011 19:43
28	16	03171128.d	1.	PUC0795-01		17 Mar 2011 20:13
29	1	03171129.d	1.	PUC0795-02		17 Mar 2011 20:44
30	2	03171130.d	1.	PUC0795-03		17 Mar 2011 21:15
31	3	03171131.d	1.	PUC0795-04		17 Mar 2011 21:46
32	4	03171132.d	1.	PUC0795-05		17 Mar 2011 22:17
33	5	03171133.d	1.	PUC0795-06		17 Mar 2011 22:48
34	6	03171134.d	1.	11C0657-MS1		17 Mar 2011 23:19
35	7	03171135.d	1.	11C0657-MSD1		17 Mar 2011 23:50
36	10	03171136.d	1.	BLK		18 Mar 2011 00:21
37	12	03171137.d	1.	BLK		18 Mar 2011 00:51

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TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY

DATE: 03/17/11

ANALYST: LC

QC BATCH # (s) : Air 1100657, H2O 0659

SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\ 031711

CALIBRATION METHOD(S): 031411.m / New Curve -031711.m

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
/	03171101	Tune	2uL	N/A	8260B	H2O	DNU - Incorred Std.
/	02	↓	↓				
16	03	25 PPB CCV	1x10mL				DNU - Acetone
1	04	Blank					DNU - Clean Out
2	05	↓					
3	06	0.5 PPB					
4	07	1.0					
5	08	2.0					
6	09	5.0					
7	10	10					
8	11	25					
9	12	50					
10	13	100					
12	14	200					
13	15	SS	↓			Air	Bromomethane 49%
16	16	Tertiary Gas	1x 10cc			H2O	
/	17	Tune	2uL				
1	18	25 PPB CCV	1x 10mL				Ace ↑
2	19	1100657 -BS1					iodo, cD ↑ 1100659-BS
3	20	-BSD1					iodo ↑ BS
4	21	-BLK1					BL
5	22	PU1009-01A	1x10cc			Air	16:20
6	23	02 A					16:22
7	24	1025-02 A					16:25
8	25	1025-01 A @5x	2cc→10cc				16:30
9	26	-01 A @1x	1x10cc				16:27
13	27	-01 DUP					16:32 1100657-DUP
16	28	PU1007-95-01A	1x10mL	≤2		H2O	source
1	29	02 A		≤2			
2	30	03A		≤2			

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537

CALIBRATION STD: 1525 / PU01528

Internal Std: 1522

IS/Surrogate/BFB: 1534 / PU01261

LOT #: 3° Gas: PT06459

REQUIRED REVIEWS

ARCHON REVIEWED By / Date: LC 03/17/11

SEQUENCE REVIEWED By / Date: LC 03/17/11

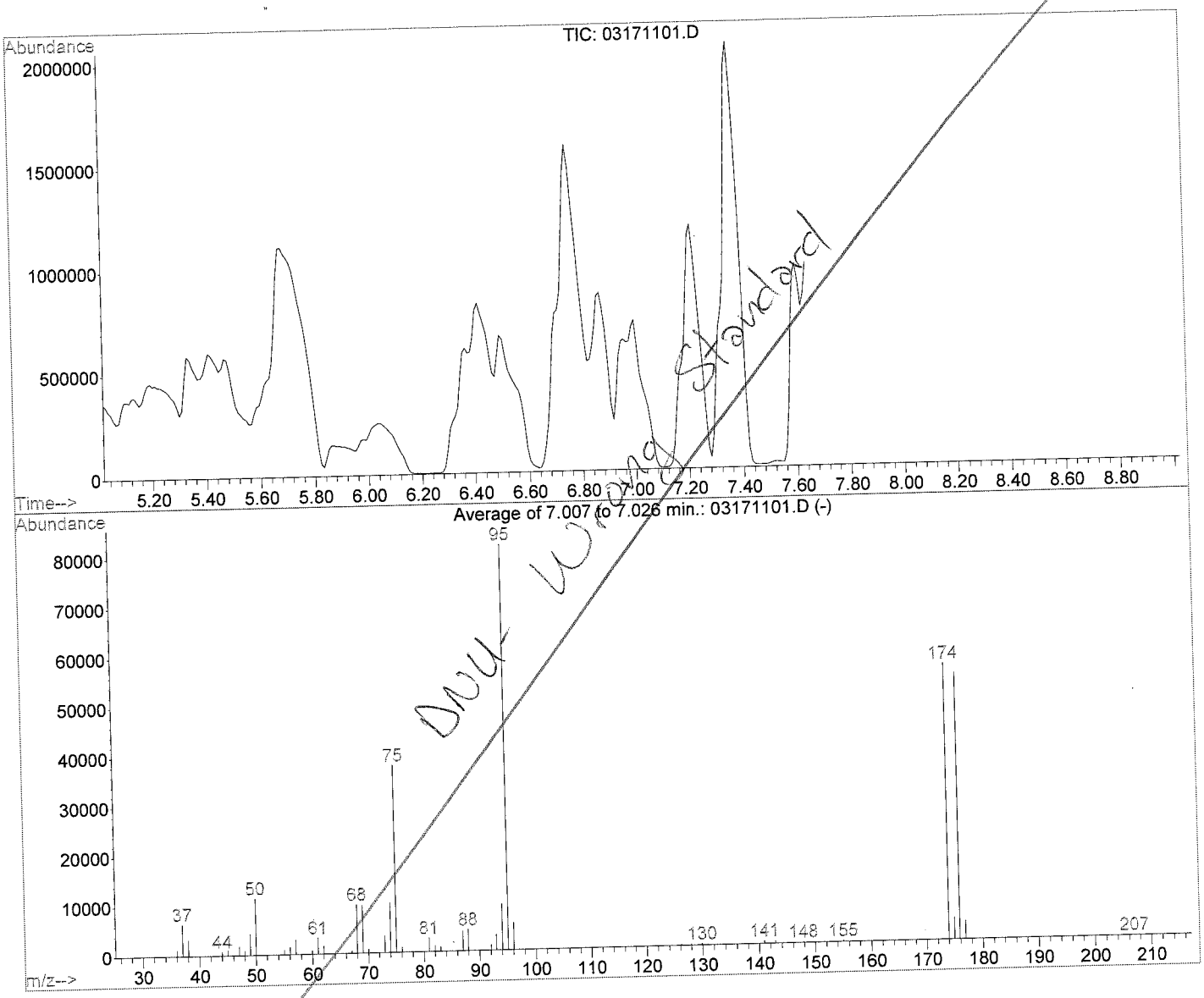
FINAL REVIEWER / Date: [illegible]

PX-VOA-009/C-07/09

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171101.D
Acq On : 17 Mar 2011 6:59 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00



DNU wrong standard

Spectrum Information: Average of 7.007 to 7.026 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	13.9	11317	FAIL*
75	95	30	60	46.1	37626	PASS
95	95	100	100	100.0	81675	PASS
96	95	5	9	6.6	5429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.1	55616	PASS
175	174	5	9	7.8	4344	PASS
176	174	95	101	96.5	53661	PASS
177	176	5	9	6.7	3599	PASS

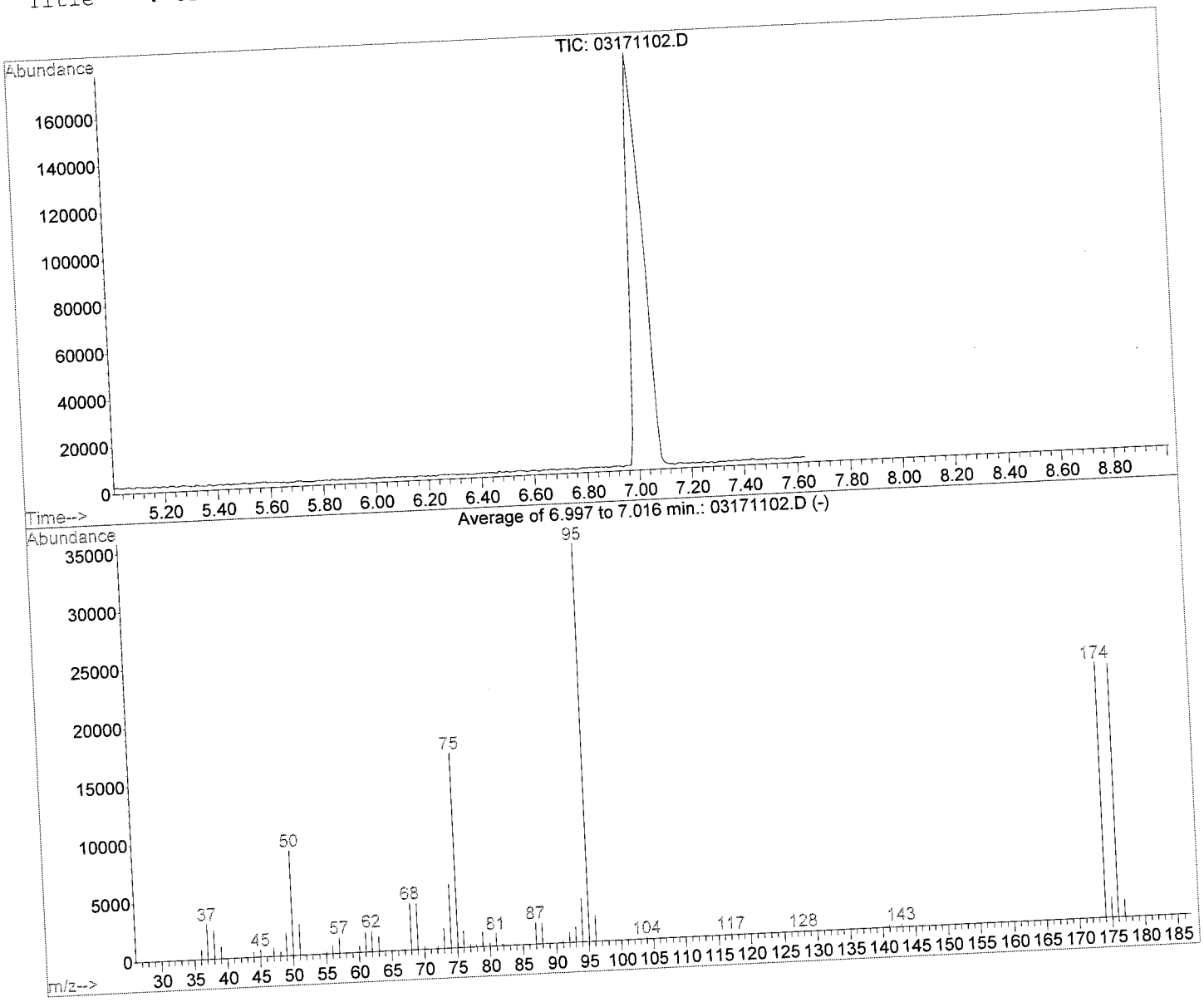
ml 3/18/11
LC 03/18/11

03171101.D 031711.M Thu Mar 17 14:54:14 2011

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171102.D
Acq On : 17 Mar 2011 7:16 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00



Spectrum Information: Average of 6.997 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	8966	PASS
75	95	30	60	48.9	16685	PASS
95	95	100	100	100.0	34109	PASS
96	95	5	9	6.4	2195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.1	21869	PASS
175	174	5	9	7.8	1697	PASS
176	174	95	101	99.3	21715	PASS
177	176	5	9	6.7	1463	PASS

LC 03/18/11

03171102.D 031411.M Thu Mar 17 13:54:22 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	183444	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	325784	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	270420	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	118494	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	106054	24.28 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.12%	
39) Toluene-d8	14.11	98	384866	24.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.12%	
53) 4-Bromofluorobenzene	17.75	95	134955	24.39 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.56%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	203514	22.97 ug/L	100
3) Chloromethane	4.90	50	349427	27.92 ug/L	100
4) Vinyl chloride	5.19	62	318799	26.09 ug/L	99
5) Bromomethane	5.78	94	141014	26.05 ug/L	96
6) Chloroethane	5.99	64	169039	25.83 ug/L	97
7) Trichlorofluoromethane	6.18	101	229398	25.07 ug/L	99
8) Acetone	6.93	43	87501	Below Cal	97
9) Iodomethane	7.58	142	98773	23.31 ug/L	98
10) 1,1-Dichloroethene	7.52	96	122197	26.18 ug/L	94
11) Methylene chloride	7.71	84	141233	23.11 ug/L	100
12) Freon 113	7.78	101	141514	23.82 ug/L	99
13) Carbon disulfide	8.03	76	424756	25.69 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	133127	23.44 ug/L	97
15) MTBE	8.73	73	229415	23.89 ug/L	98
16) 1,1-Dichloroethane	8.92	63	275296	23.59 ug/L	99
17) Vinyl acetate	9.08	43	220376	24.39 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7147	23.08 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	138298	23.44 ug/L	98
20) Bromochloromethane	9.87	128	51964	23.76 ug/L	97
21) Chloroform	9.93	83	226993	23.52 ug/L	100
22) 2,2-Dichloropropane	10.03	77	199254	24.74 ug/L	99
24) 1,2-Dichloroethane	10.78	62	137605	24.05 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	172734	23.93 ug/L	98
27) 1,1-Dichloropropene	11.15	75	199034	23.87 ug/L	99
28) Carbon tetrachloride	11.39	117	140086	24.16 ug/L	99
29) Benzene	11.44	78	525784	23.82 ug/L	100
30) Dibromomethane	12.17	93	59810	22.72 ug/L	99
31) 1,2-Dichloropropane	12.21	63	147015	23.80 ug/L	100
32) Trichloroethene	12.26	95	130559	23.47 ug/L	100
33) Bromodichloromethane	12.33	83	152627	23.43 ug/L	97
34) 2-Chlorovinylethylether	12.86	63	34857	23.00 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	192256	24.47 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.30	43	79041	22.82 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	148191	24.15 ug/L	98
38) 1,1,2-Trichloroethane	13.95	83	69853	23.20 ug/L	96
40) Toluene	14.21	92	301555	24.42 ug/L	99
42) 1,3-Dichloropropane	14.27	76	144303	23.31 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171103.D 031411.M Thu Mar 17 13:54:27 2011

LC 03/18/11

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

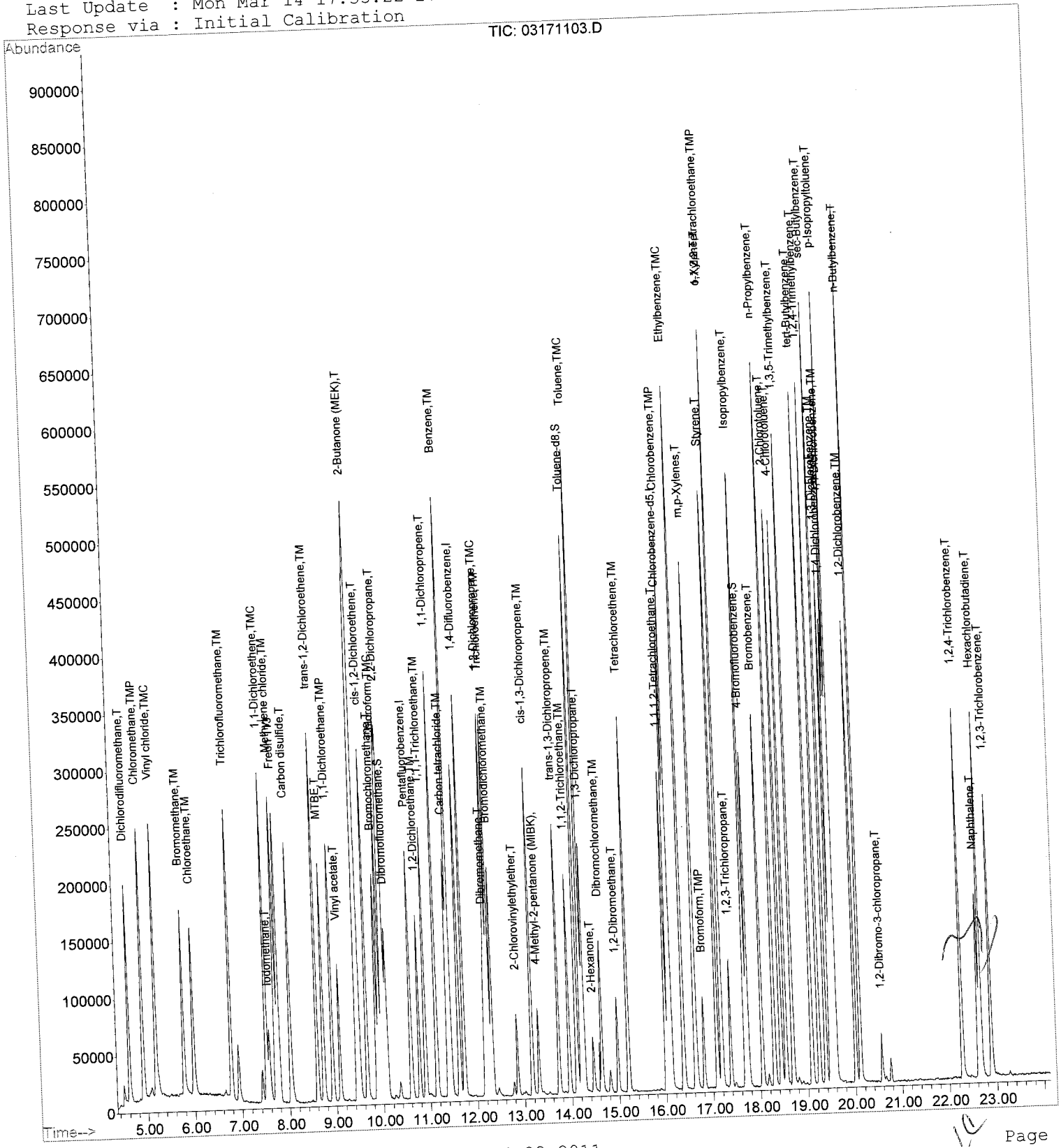
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	52512	24.58 ug/L #	99
44) Dibromochloromethane	14.65	129	85525	24.04 ug/L	98
45) 1,2-Dibromoethane	14.98	107	75677	25.06 ug/L	99
46) Tetrachloroethene	15.20	166	116159	23.97 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	93416	24.16 ug/L	98
48) Chlorobenzene	16.12	112	306146	24.04 ug/L	97
49) Ethylbenzene	16.38	91	563689	24.00 ug/L	99
50) m,p-Xylenes	16.64	106	197842	23.89 ug/L	100
51) Styrene	17.09	104	313010	24.57 ug/L	100
52) o-Xylene	17.19	106	188426	23.54 ug/L	100
55) Bromoform	16.81	173	45375	27.10 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	85826	24.73 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	19634	26.45 ug/L	97
58) Isopropylbenzene	17.70	105	467417	25.22 ug/L	100
59) Bromobenzene	18.05	156	105243	25.16 ug/L	98
60) n-Propylbenzene	18.30	91	657511	25.12 ug/L	100
61) 2-Chlorotoluene	18.44	91	374515	24.85 ug/L	99
62) 4-Chlorotoluene	18.55	91	377509	25.07 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	397648	25.20 ug/L	99
64) tert-Butylbenzene	19.09	119	338640	25.00 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	398096	24.77 ug/L	98
66) sec-Butylbenzene	19.38	105	570587	24.77 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	211237	24.59 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	208652	24.28 ug/L	99
69) p-Isopropyltoluene	19.61	119	450706	25.20 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	179425	24.69 ug/L	99
71) n-Butylbenzene	20.11	91	503050	25.42 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	11007	24.17 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	125573	24.32 ug/L	99
74) Naphthalene	22.62	128	162763	24.75 ug/L	100
75) Hexachlorobutadiene	22.68	225	79503	27.59 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	100849	23.50 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171103.D 031411.M Thu Mar 17 13:54:27 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 8:10 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	208596	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	368454	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	303623	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	134043	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	111829	22.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.04%	
39) Toluene-d8	14.11	98	400008	22.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.08%	
53) 4-Bromofluorobenzene	17.75	95	138919	22.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 89.44%	

Target Compounds					Qvalue
8) Acetone	6.94	43	4324	1.42 ug/L #	65
10) 1,1-Dichloroethene	7.51	96	60	Below Cal #	73
13) Carbon disulfide	8.03	76	742	Below Cal	100
24) 1,2-Dichloroethane	10.60	62	1046	0.16 ug/L #	1
36) 4-Methyl-2-pentanone (MIBK	13.01	43	7775	1.98 ug/L #	50
38) 1,1,2-Trichloroethane	14.12	83	373	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.11	76	4467	0.64 ug/L #	68
73) 1,2,4-Trichlorobenzene	22.29	180	1153	0.20 ug/L	97
74) Naphthalene	22.63	128	8429	1.13 ug/L	100
76) 1,2,3-Trichlorobenzene	22.91	180	1057	0.22 ug/L	93

DW Clean Out

LC 03/18/11

(#) = qualifier out of range (m) = manual integration
03171104.D 031411.M Thu Mar 17 13:54:37 2011

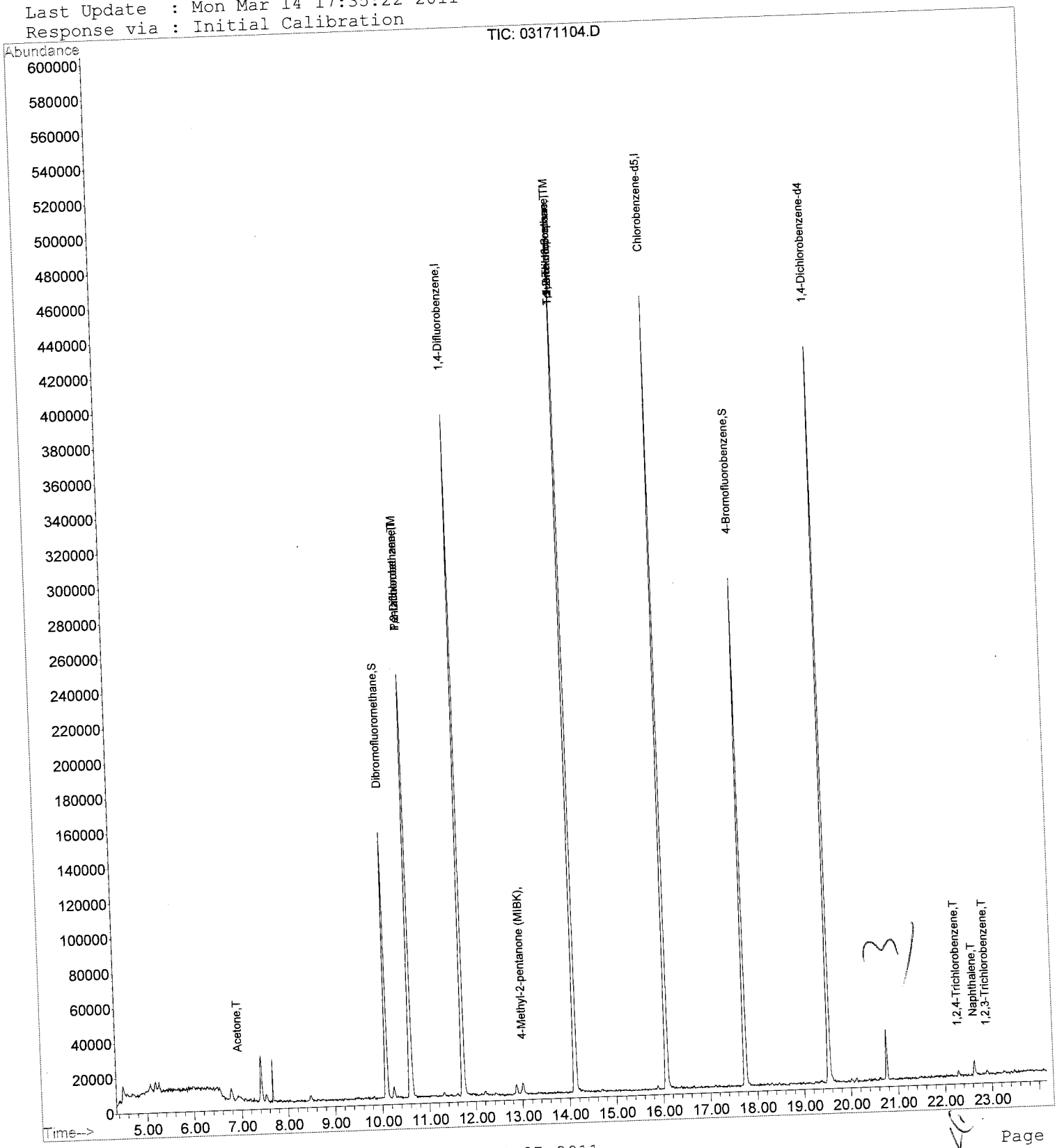
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D
Acq On : 17 Mar 2011 8:10 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	24.00 ug/L	0.00
Spiked Amount 25.000			Recovery =	96.00%	
39) Toluene-d8	14.11	98	374753	22.97 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.88%	
53) 4-Bromofluorobenzene	17.75	95	131653	22.85 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.40%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.14 ug/L LRL	98
8) Acetone	6.93	43	3328	0.96 ug/L #	69
10) 1,1-Dichloroethene	7.53	96	127	Below Cal #	1
13) Carbon disulfide	8.02	76	5282	Below Cal	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	82
24) 1,2-Dichloroethane	10.60	62	1206	0.20 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.60 ug/L # WRT	70
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	32
74) Naphthalene	22.63	128	1667	0.23 ug/L	100

m 3/17/11

LC 03/18/11

(#) = qualifier out of range (m) = manual integration
03171105.D 031411.M Thu Mar 17 13:54:55 2011

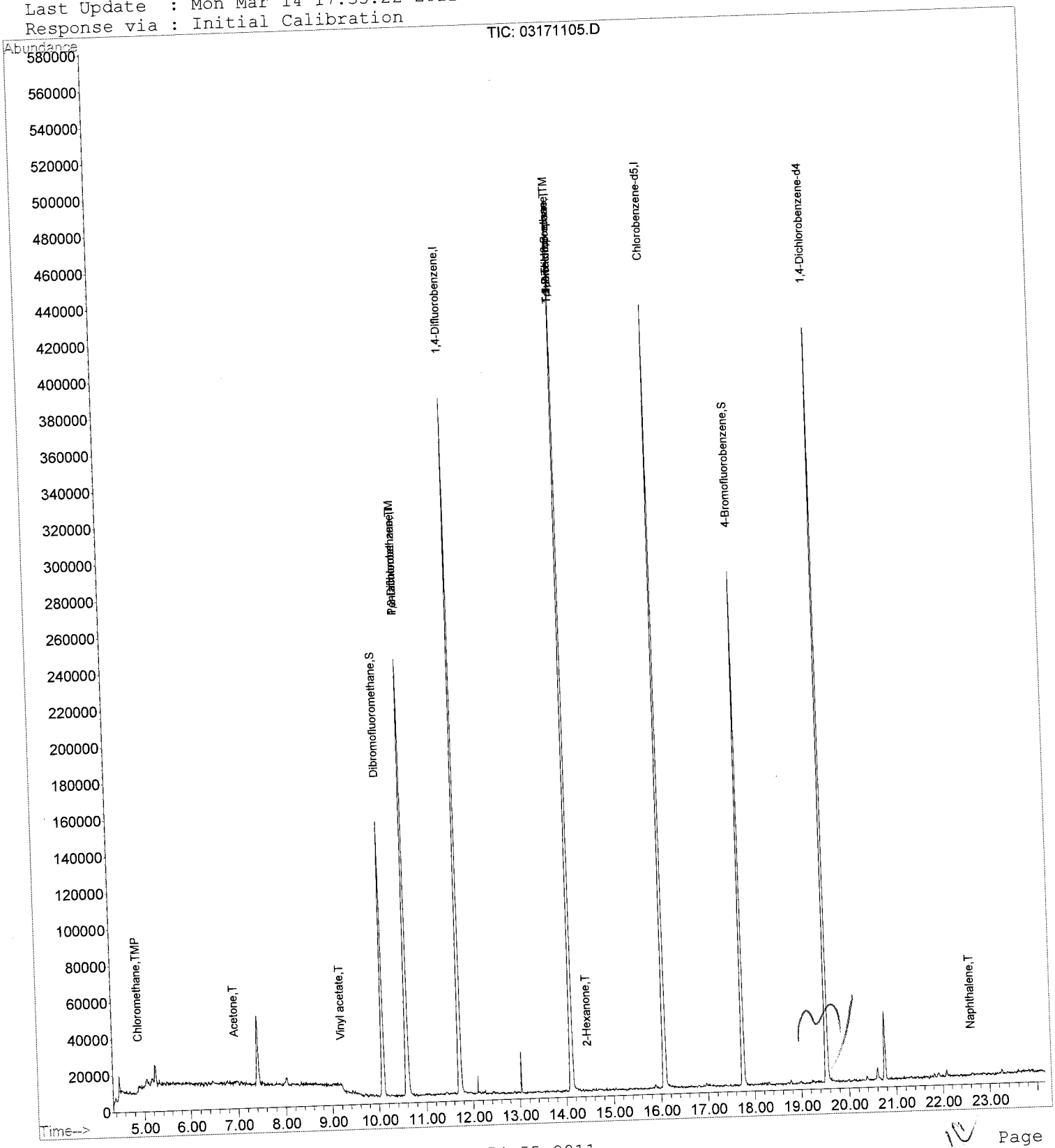
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D
Acq On : 17 Mar 2011 8:41 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

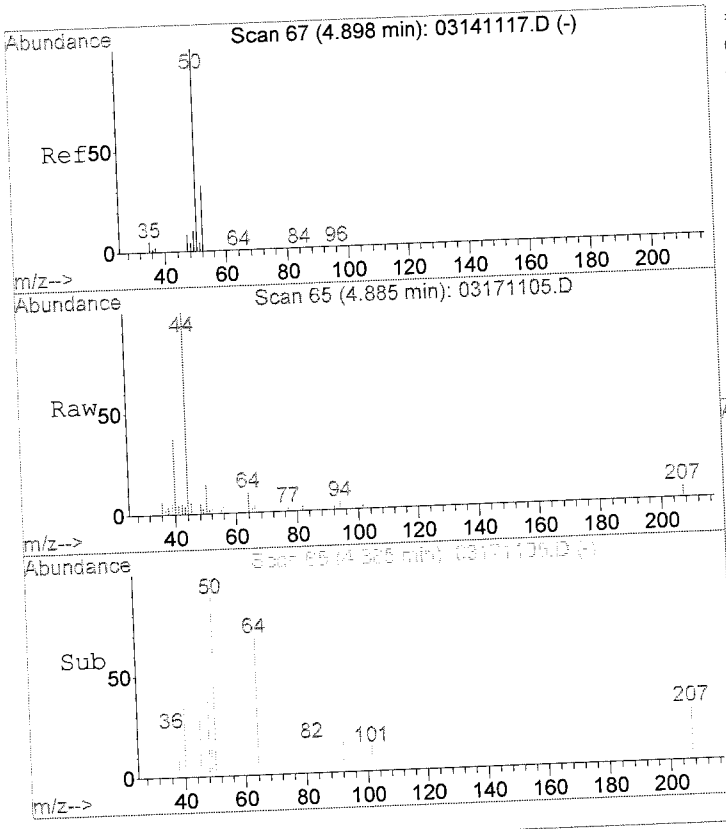
Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



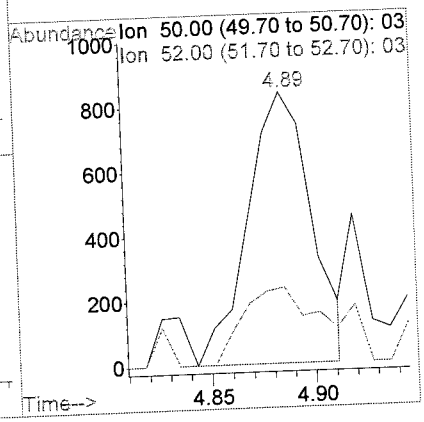
03171105.D 031411.M Thu Mar 17 13:54:55 2011

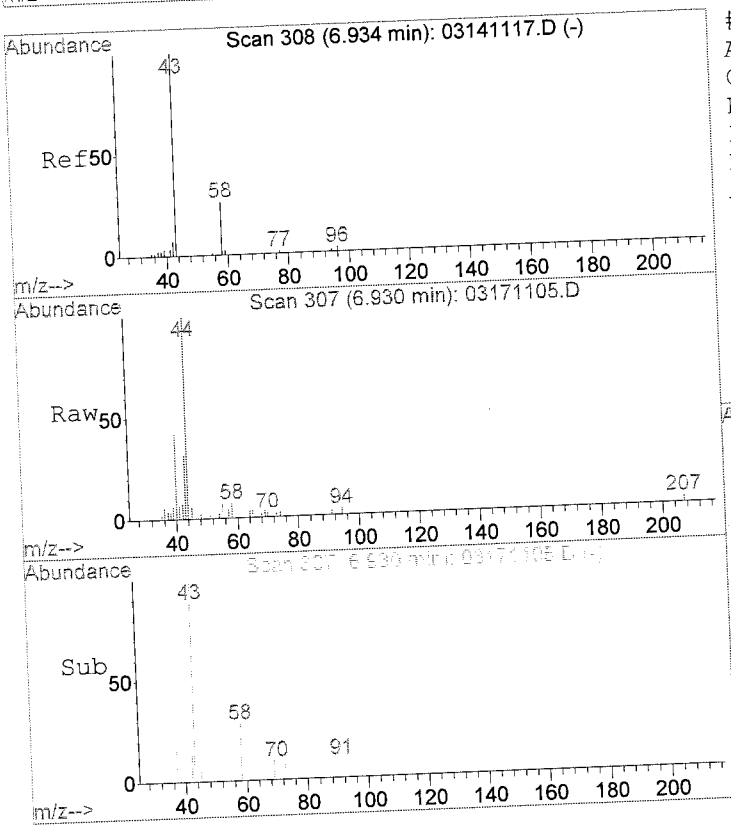


#3
Chloromethane
Concen: 0.14 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.4	38.2

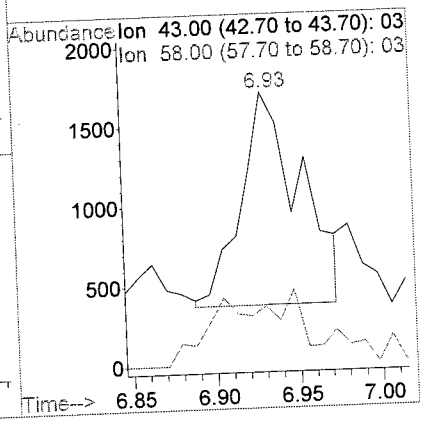


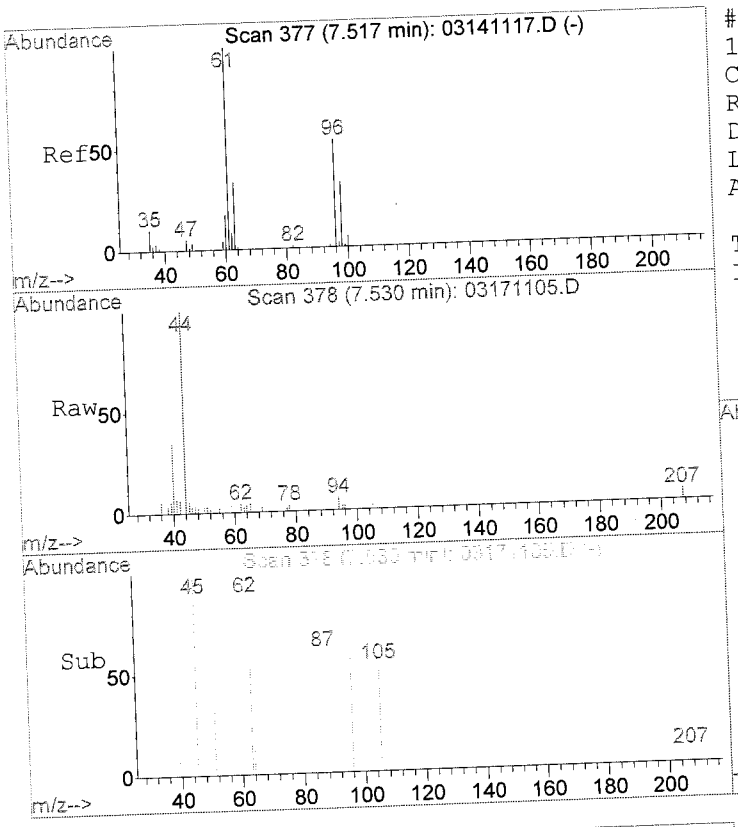


#8
Acetone
Concen: 0.96 ug/L
RT: 6.93 min Scan# 307
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

Ion	Ratio	Lower	Upper
43	100		
58	9.7	20.4	30.6#

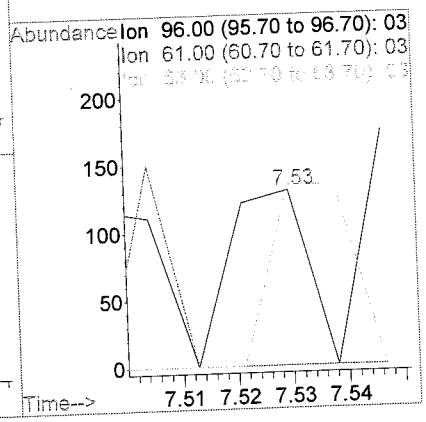


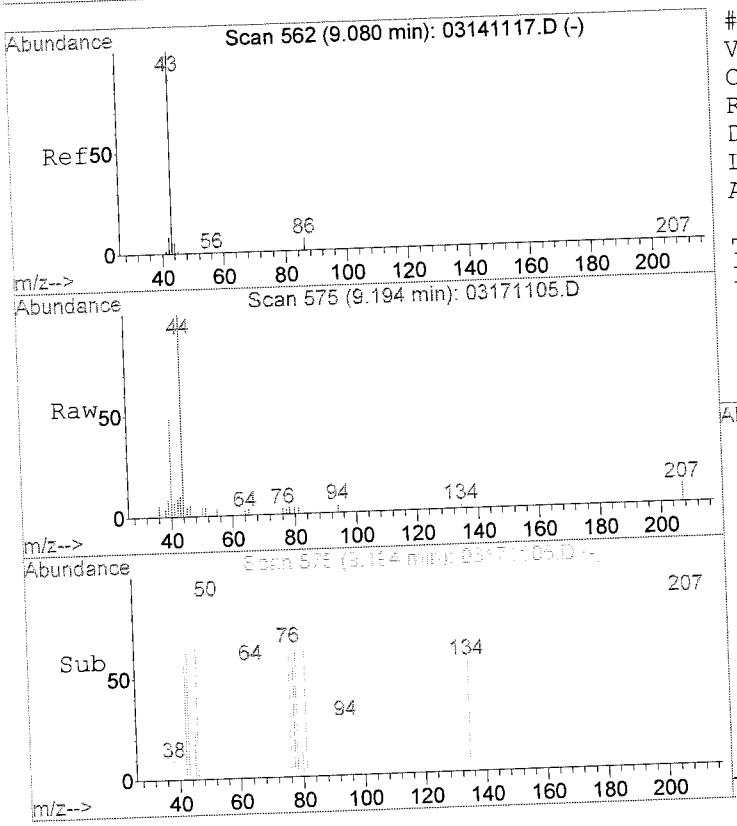


#10
1,1-Dichloroethene
Concen: Below Cal
RT: 7.53 min Scan# 378
Delta R.T. 0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 96 Resp: 127

Ion	Ratio	Lower	Upper
96	100		
61	0.0	164.0	246.0#
63	107.1	51.4	77.0#

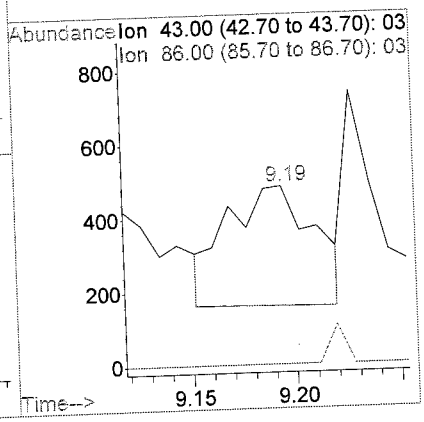


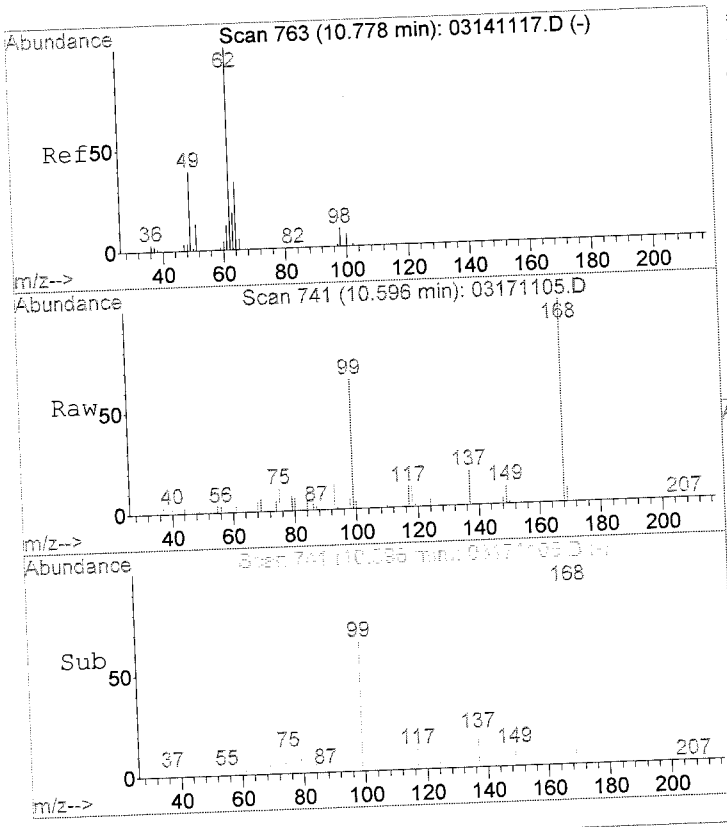


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.7	7.1#

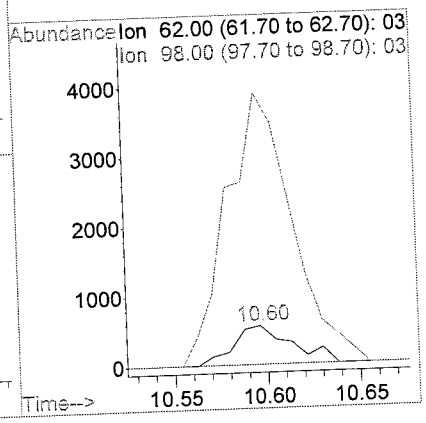


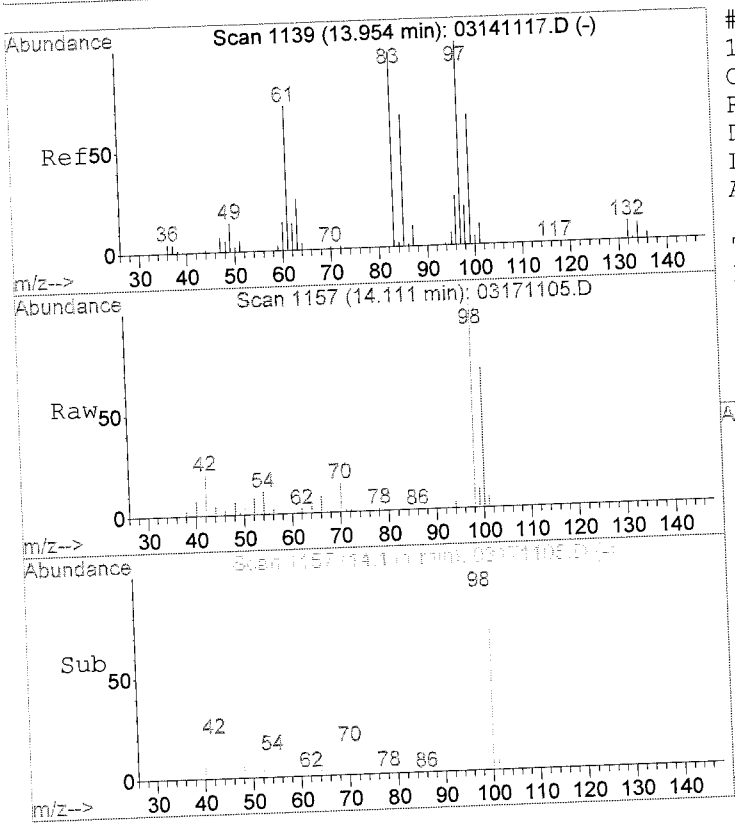


#24
1,2-Dichloroethane
Concen: 0.20 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.18 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	6.8	10.2#

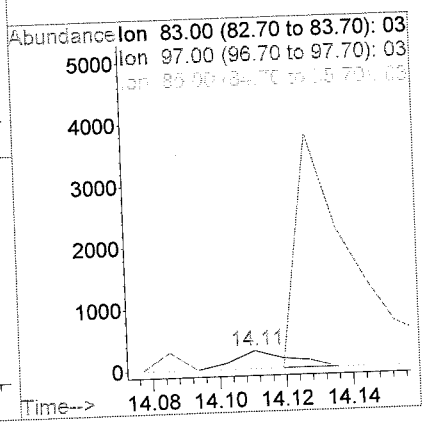


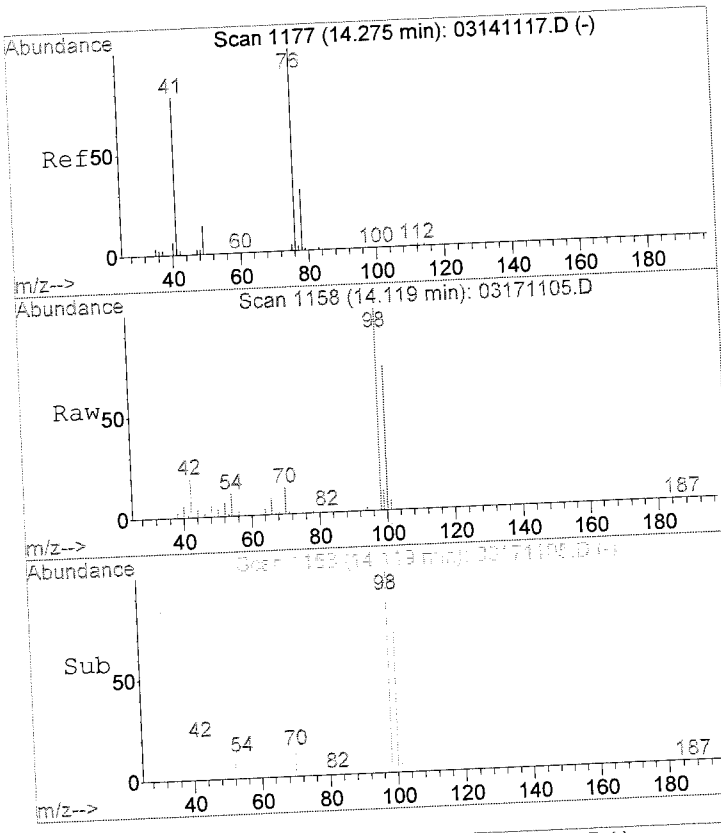


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	80.6	120.8#
85	0.0	51.4	77.0#



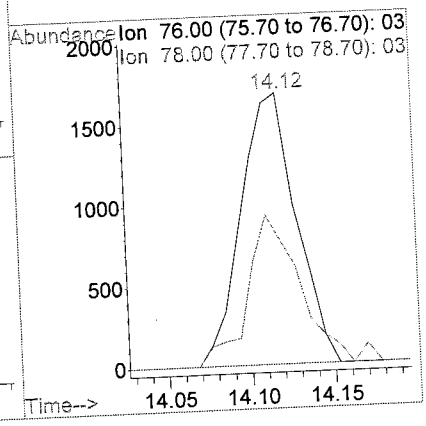


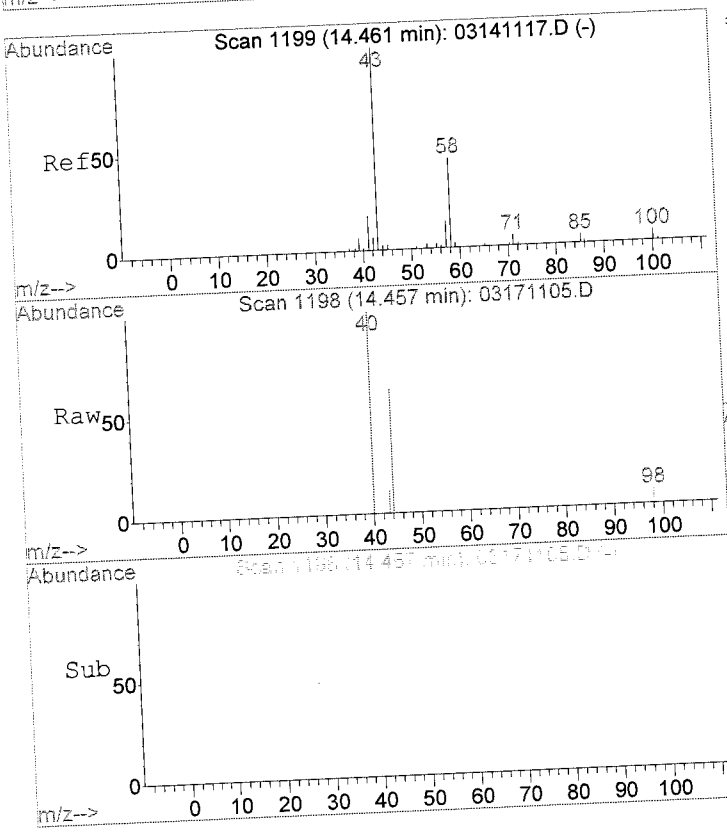
#42
1,3-Dichloropropane
Concen: 0.60 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	25.5	38.3#

WPT

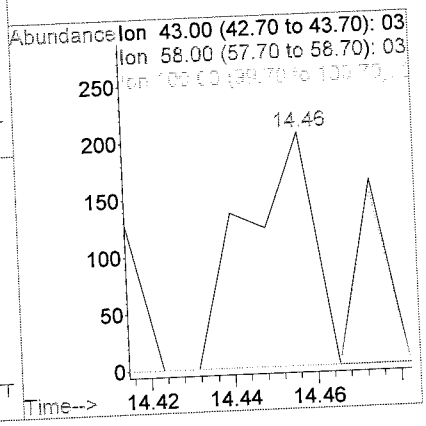


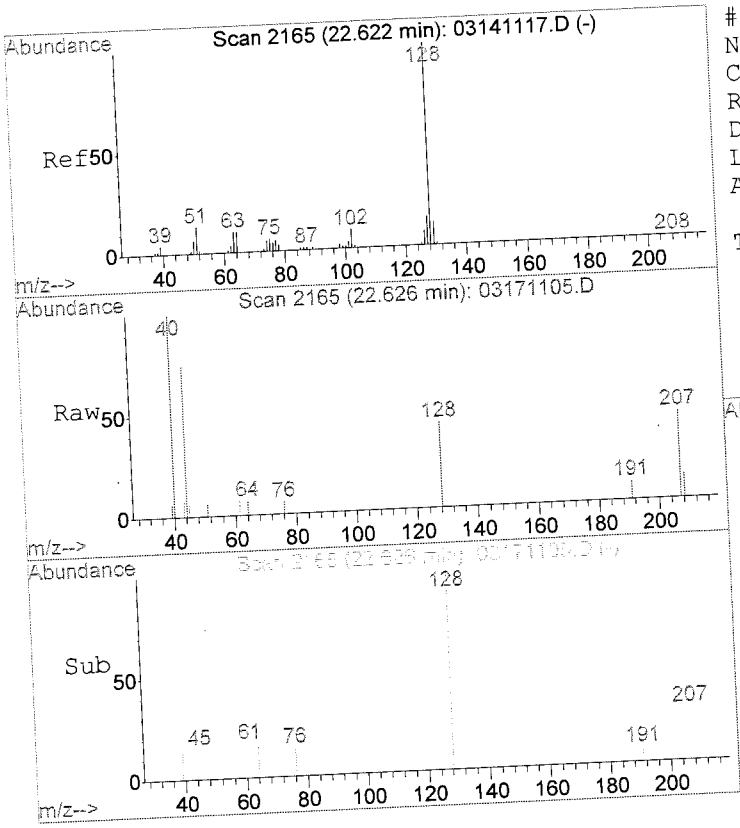


#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 235

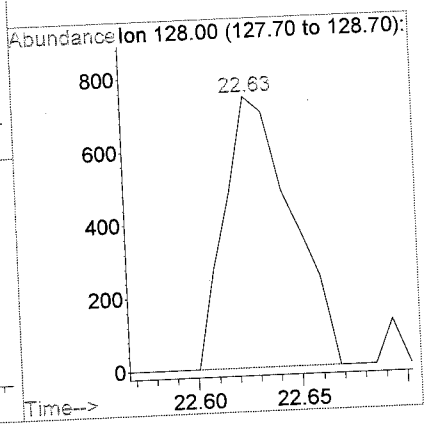
Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.8	52.2#
100	0.0	0.0	0.0





#74
Naphthalene
Concen: 0.23 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

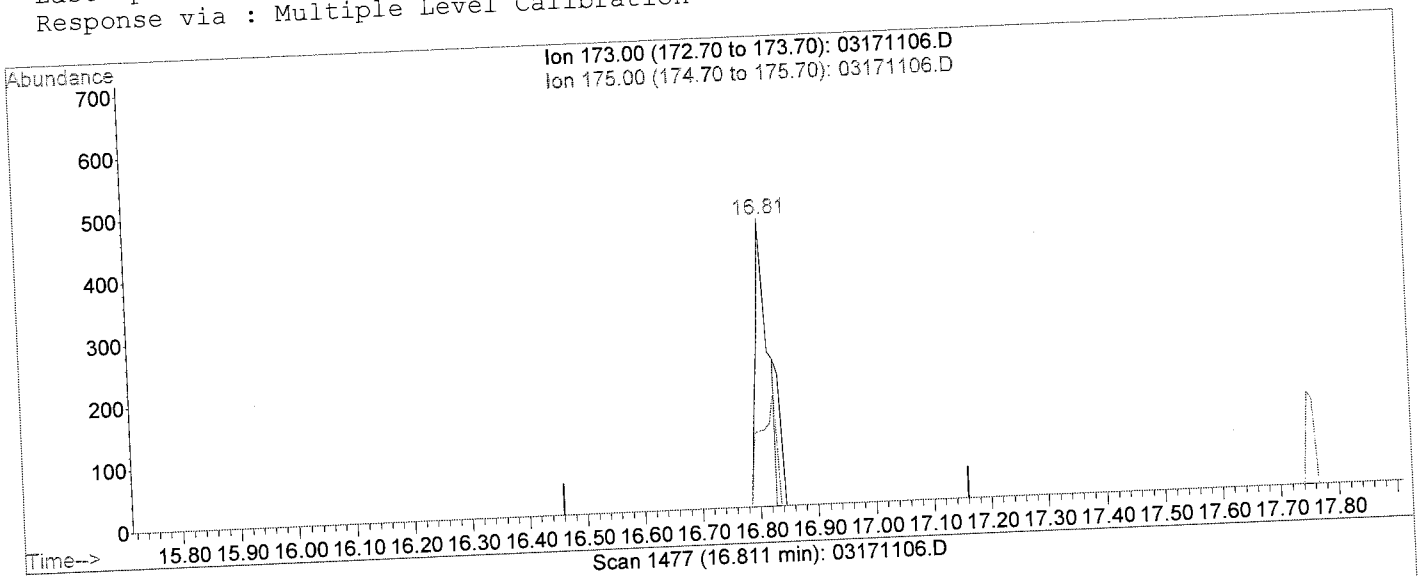
Tgt Ion:128 Resp: 1667

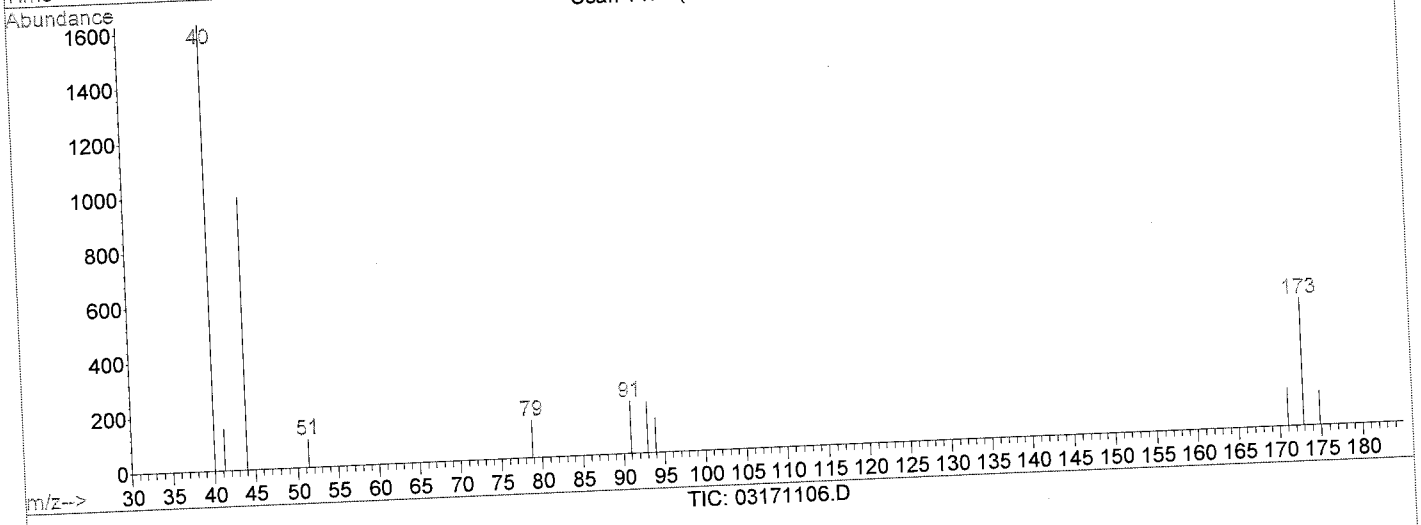


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: temp.res
Quant Time: Mar 17 13:55 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171106.D

(55) Bromoform (TMP)

16.81min 0.42ug/L

response 696

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	23.13#
0.00	0.00	0.00
0.00	0.00	0.00

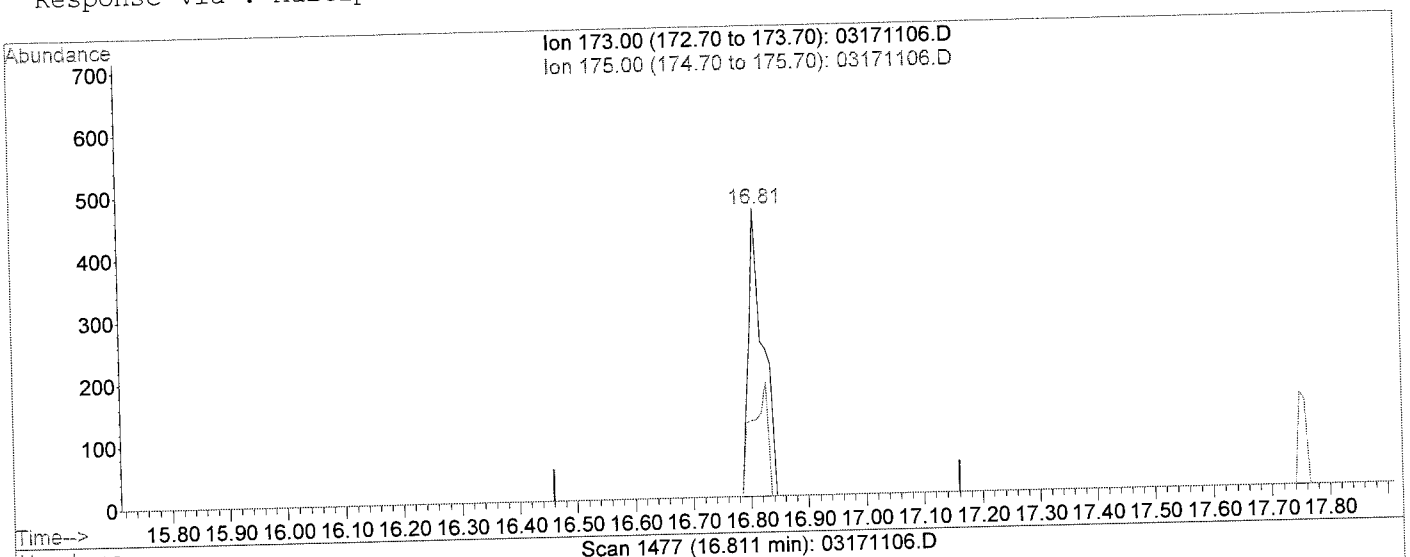
Before - SP

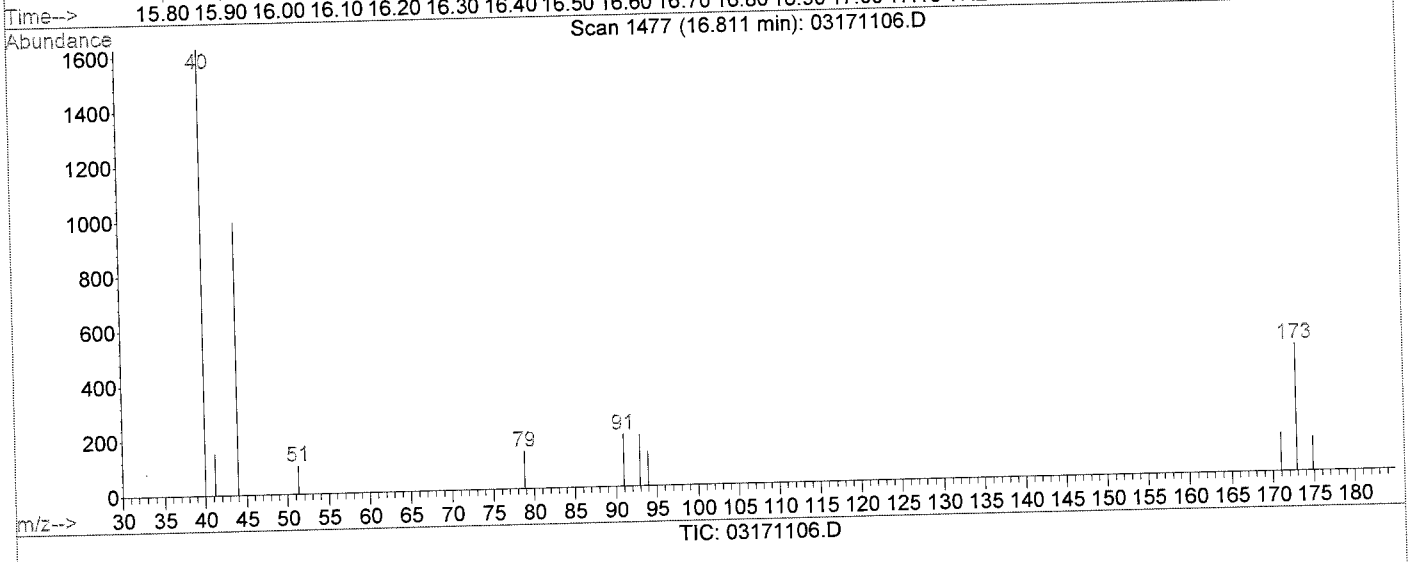
LC 03/18/11

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(55) Bromoform (TMP)

16.81min 0.49ug/L m

response 803

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	20.05#
0.00	0.00	0.00
0.00	0.00	0.00

After

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.62 ug/L	0.00
Spiked Amount 25.000			Recovery = 2.48%		
39) Toluene-d8	14.12	98	8971	0.63 ug/L	0.00
Spiked Amount 25.000			Recovery = 2.52%		
53) 4-Bromofluorobenzene	17.76	95	3244	0.65 ug/L	0.00
Spiked Amount 25.000			Recovery = 2.60%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.53 ug/L	92
3) Chloromethane	4.89	50	6587	0.58 ug/L	96
4) Vinyl chloride	5.18	62	6003	0.54 ug/L	90
5) Bromomethane	5.78	94	3084	0.62 ug/L	90
6) Chloroethane	5.97	64	3371	0.56 ug/L #	75
7) Trichlorofluoromethane	6.77	101	4364	0.52 ug/L	93
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.58	142	1272	0.33 ug/L	95
10) 1,1-Dichloroethene	7.50	96	2883	0.40 ug/L	91
11) Methylene chloride	7.70	84	3890	0.70 ug/L	95
12) Freon 113	7.77	101	3509	0.65 ug/L	93
13) Carbon disulfide	8.02	76	10027	0.34 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	91
15) MTBE	8.73	73	5033	0.57 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.56 ug/L	97
17) Vinyl acetate	9.08	43	4816	0.58 ug/L #	82
18) 2-Butanone (MEK)	9.46	72	199	0.70 ug/L #	33
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	89
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	90
21) Chloroform	9.93	83	4941	0.56 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.52 ug/L	98
24) 1,2-Dichloroethane	10.77	62	2927	0.56 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.50 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	96
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.55 ug/L	100
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	86
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L	99
32) Trichloroethene	12.27	95	2709	0.53 ug/L	97
33) Bromodichloromethane	12.33	83	3018	0.51 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	0.56 ug/L #	56
35) cis-1,3-Dichloropropene	13.18	75	3500	0.49 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	0.00	43	0	N.D. d	
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.50 ug/L #	82
40) Toluene	14.21	92	6374	0.56 ug/L	98
42) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171106.D 031411.M Thu Mar 17 13:56:36 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D
Acq On : 17 Mar 2011 9:12 am
Sample : 0.5 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

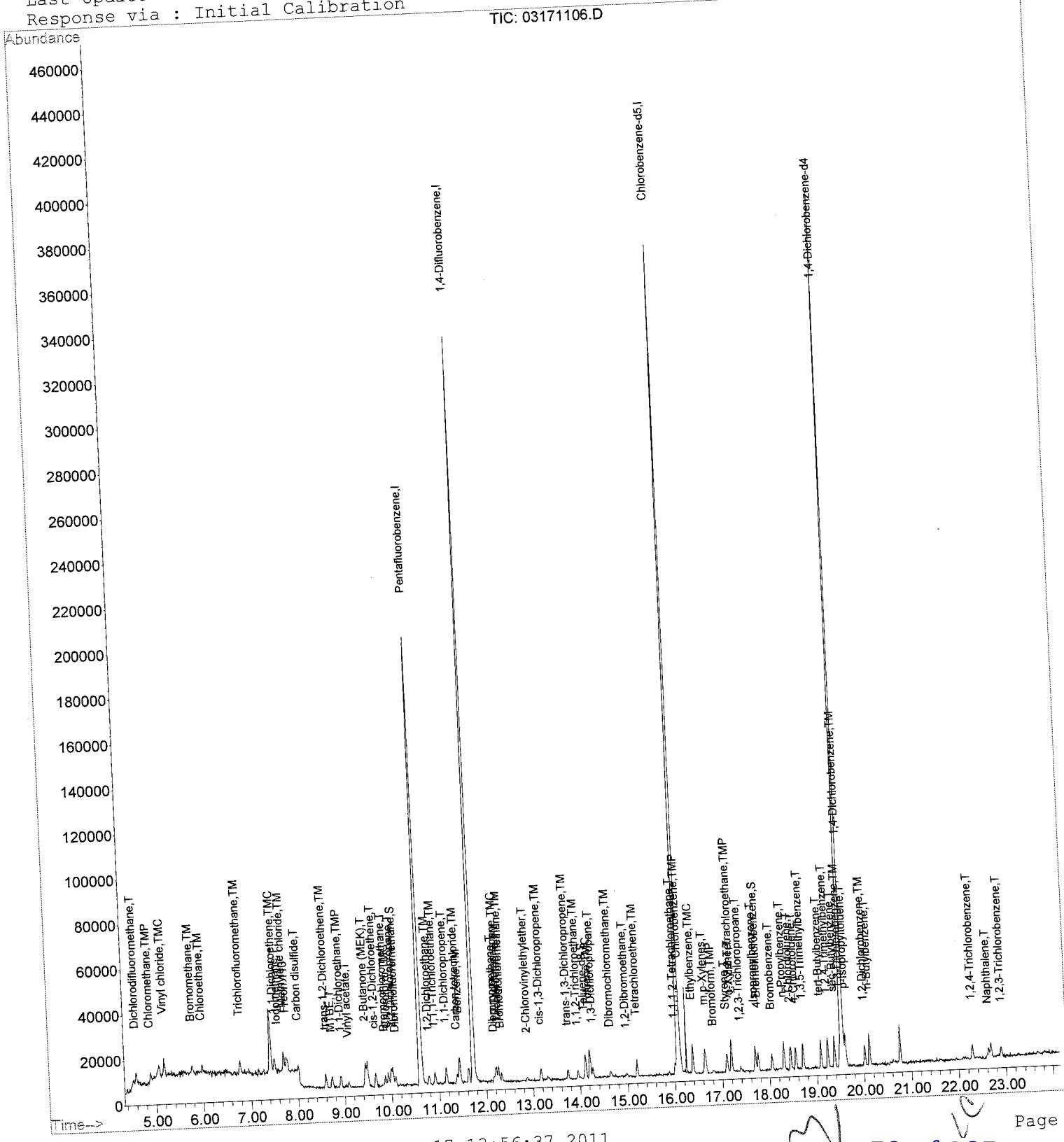
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	0.00	43	0	N.D. d	
44) Dibromochloromethane	14.65	129	2052	0.64 ug/L	84
45) 1,2-Dibromoethane	14.98	107	1293	0.48 ug/L #	76
46) Tetrachloroethene	15.21	166	2392	0.55 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.02	131	2040	0.59 ug/L #	56
48) Chlorobenzene	16.12	112	6227	0.54 ug/L	97
49) Ethylbenzene	16.38	91	11848	0.56 ug/L	94
50) m,p-Xylenes	16.64	106	4453	0.60 ug/L	94
51) Styrene	17.10	104	5086	0.44 ug/L #	77
52) o-Xylene	17.20	106	4214	0.58 ug/L	99
55) Bromoform	16.81	173	803m	0.49 ug/L	
56) 1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L #	96
57) 1,2,3-Trichloropropane	17.38	110	276	0.38 ug/L #	59
58) Isopropylbenzene	17.70	105	9284	0.51 ug/L	98
59) Bromobenzene	18.05	156	1904	0.47 ug/L	85
60) n-Propylbenzene	18.31	91	13033	0.51 ug/L	96
61) 2-Chlorotoluene	18.45	91	8427	0.57 ug/L	93
62) 4-Chlorotoluene	18.56	91	8009	0.54 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	8073	0.52 ug/L	98
64) tert-Butylbenzene	19.09	119	6647	0.50 ug/L	97
65) 1,2,4-Trimethylbenzene	19.24	105	7949	0.51 ug/L	99
66) sec-Butylbenzene	19.38	105	11380	0.51 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L	94
68) 1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L #	87
69) p-Isopropyltoluene	19.61	119	8395	0.48 ug/L	94
70) 1,2-Dichlorobenzene	20.02	146	3885	0.55 ug/L	97
71) n-Butylbenzene	20.11	91	9466	0.49 ug/L	99
72) 1,2-Dibromo-3-chloropropan	0.00	157	0	N.D. d	
73) 1,2,4-Trichlorobenzene	22.29	180	2133	0.42 ug/L	81
74) Naphthalene	22.63	128	4307	0.67 ug/L	100
75) Hexachlorobutadiene	22.69	225	1446	Below Cal #	66
76) 1,2,3-Trichlorobenzene	22.90	180	1936	0.46 ug/L	87

(#) = qualifier out of range (m) = manual integration
03171106.D 031411.M Thu Mar 17 13:56:37 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 13:56 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



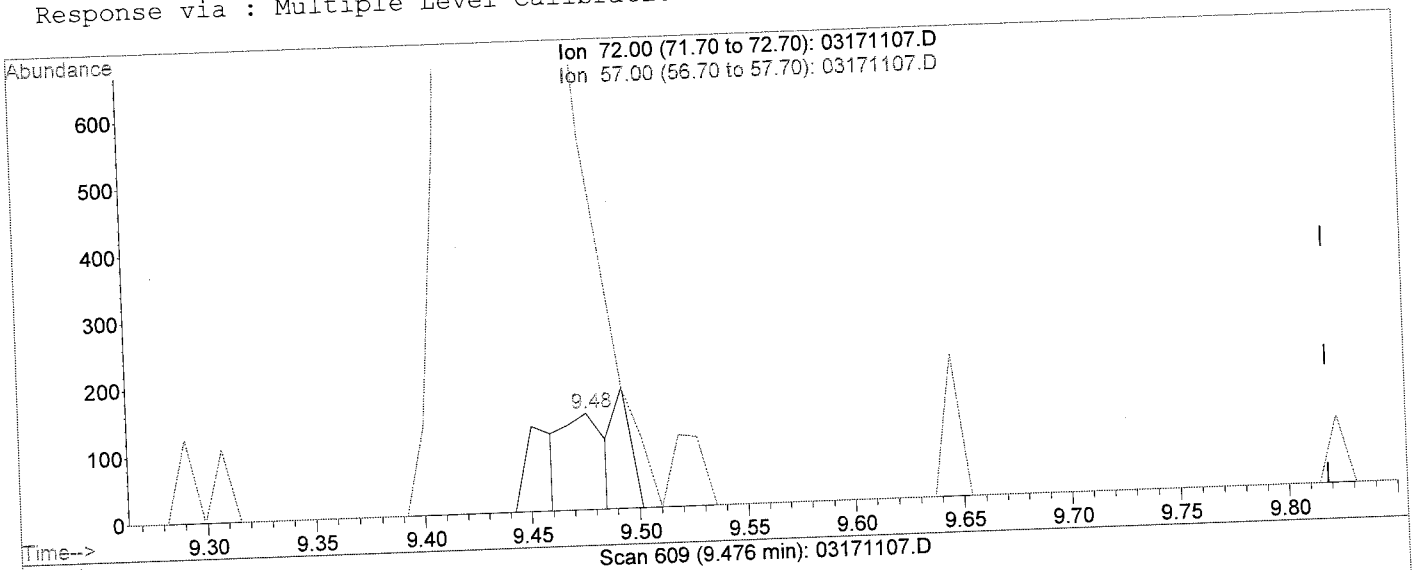
Quantitation Report (Qedit)

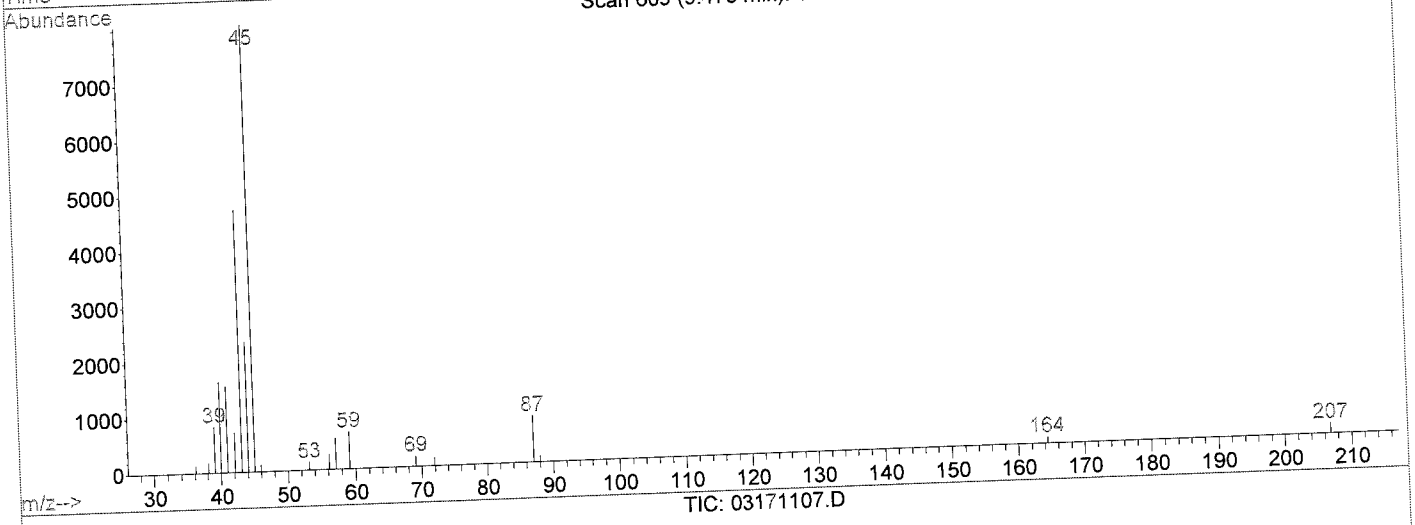
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(18) 2-Butanone (MEK) (T)

9.48min 0.69ug/L

response 190

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Before - NIP

M 3/11/11 LC 03/18/11

03171107.D 031411.M Thu Mar 17 13:57:01 2011

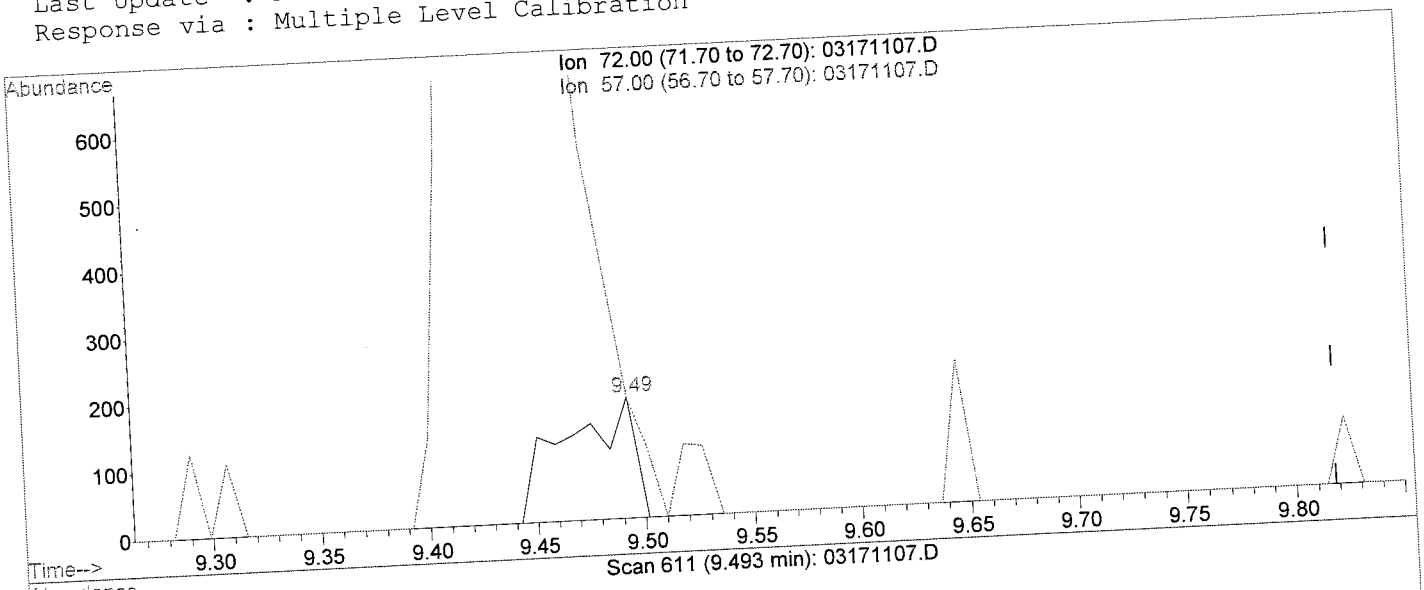
Quantitation Report (Qedit)

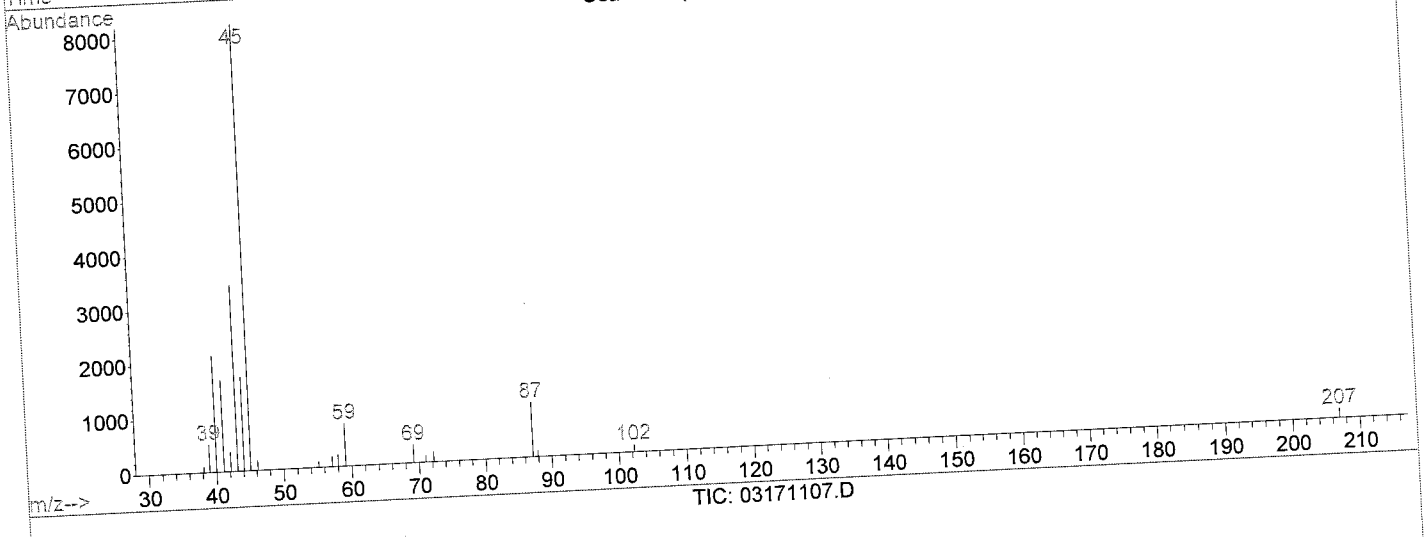
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171107.D

(18) 2-Butanone (MEK) (T)

9.49min 1.46ug/L m

response 405

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

After

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 13:57 2011

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	1.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.00%	
39) Toluene-d8	14.12	98	14880	1.07 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.28%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.94 ug/L	95
3) Chloromethane	4.89	50	11297	1.01 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.07 ug/L #	84
5) Bromomethane	5.77	94	5200	1.07 ug/L	90
6) Chloroethane	5.98	64	6815	1.17 ug/L	90
7) Trichlorofluoromethane	6.77	101	8152	1.00 ug/L	92
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.57	142	3864	1.02 ug/L #	83
10) 1,1-Dichloroethene	7.51	96	5486	1.05 ug/L	95
11) Methylene chloride	7.70	84	6767	1.24 ug/L	93
12) Freon 113	7.78	101	6284	1.18 ug/L	96
13) Carbon disulfide	8.02	76	17829	0.89 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.20 ug/L	83
15) MTBE	8.73	73	10605	1.24 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.17 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.23 ug/L #	92
18) 2-Butanone (MEK)	9.49	72	405m	1.46 ug/L	
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	96
21) Chloroform	9.93	83	8465	0.98 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.97 ug/L	92
24) 1,2-Dichloroethane	10.78	62	5936	1.16 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.95 ug/L	95
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	94
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.03 ug/L	98
30) Dibromomethane	12.17	93	2529	1.07 ug/L	96
31) 1,2-Dichloropropane	12.21	63	5383	0.97 ug/L #	88
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.97 ug/L	87
34) 2-Chlorovinylethylether	12.86	63	1739	1.28 ug/L #	82
35) cis-1,3-Dichloropropene	13.18	75	6952	0.99 ug/L	94
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.11 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.97 ug/L #	82
40) Toluene	14.22	92	10459	0.94 ug/L	91
42) 1,3-Dichloropropane	14.27	76	5543	0.99 ug/L #	73

(#) = qualifier out of range (m) = manual integration
03171107.D 031411.M Thu Mar 17 13:57:42 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

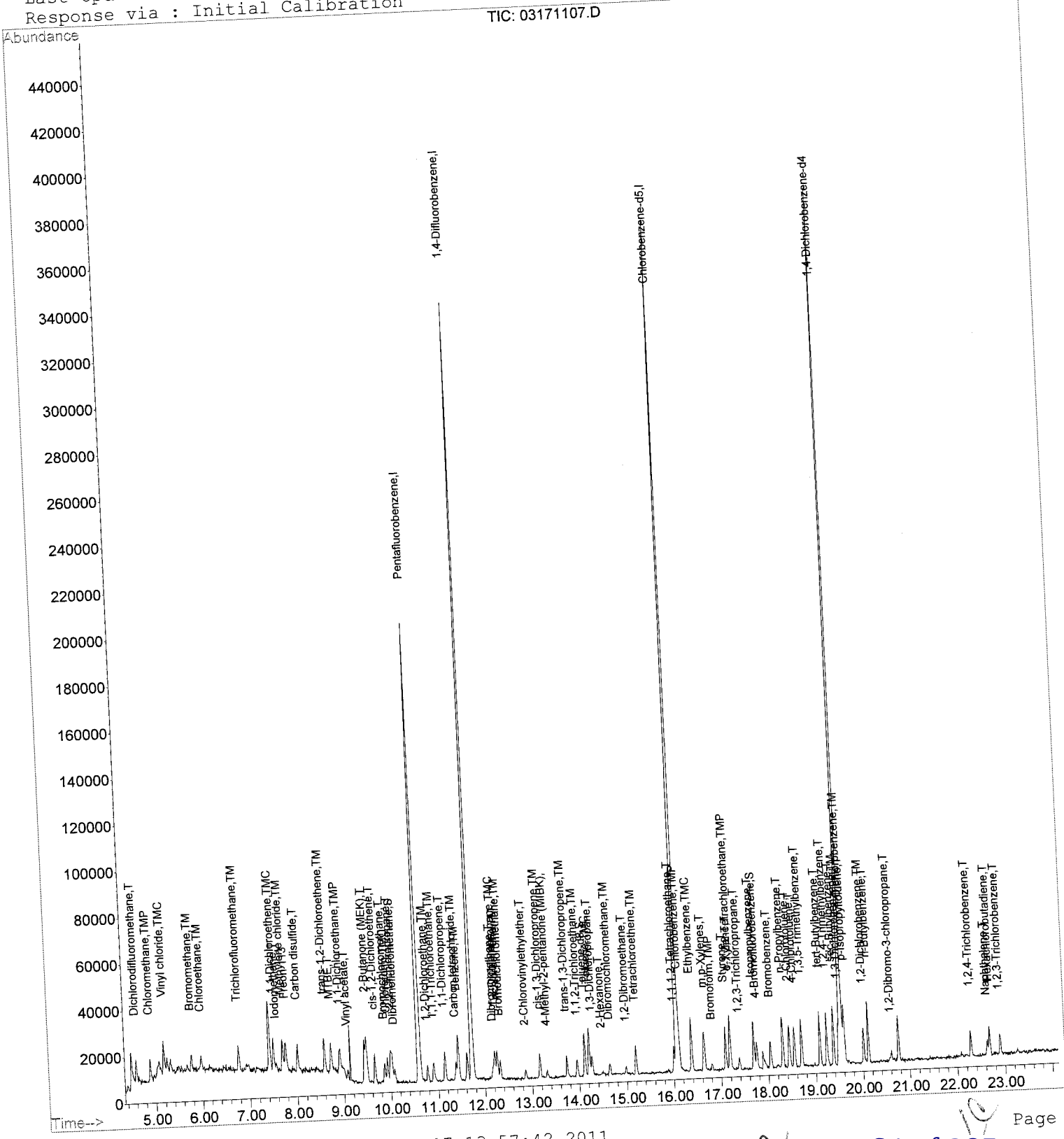
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2515	1.31 ug/L #	77
44) Dibromochloromethane	14.65	129	2863	0.89 ug/L	98
45) 1,2-Dibromoethane	14.98	107	2446	0.90 ug/L #	78
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L	93
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.03 ug/L #	58
48) Chlorobenzene	16.12	112	10976	0.96 ug/L	92
49) Ethylbenzene	16.38	91	20598	0.97 ug/L	99
50) m,p-Xylenes	16.64	106	6910	0.93 ug/L	92
51) Styrene	17.10	104	10355	0.90 ug/L	98
52) o-Xylene	17.20	106	7210	1.00 ug/L	90
55) Bromoform	16.81	173	1545	0.97 ug/L #	72
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L #	89
57) 1,2,3-Trichloropropane	17.38	110	807	1.14 ug/L	98
58) Isopropylbenzene	17.70	105	16311	0.92 ug/L	100
59) Bromobenzene	18.05	156	3839	0.96 ug/L	97
60) n-Propylbenzene	18.30	91	23854	0.96 ug/L	99
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L	96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L	96
64) tert-Butylbenzene	19.09	119	12127	0.94 ug/L	96
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.95 ug/L	100
66) sec-Butylbenzene	19.38	105	21187	0.96 ug/L	97
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L	93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L	98
69) p-Isopropyltoluene	19.61	119	15312	0.90 ug/L	98
70) 1,2-Dichlorobenzene	20.02	146	6687	0.96 ug/L	99
71) n-Butylbenzene	20.11	91	17346	0.92 ug/L	96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.90 ug/L	89
73) 1,2,4-Trichlorobenzene	22.28	180	4683	0.95 ug/L	94
74) Naphthalene	22.63	128	5978	0.95 ug/L	100
75) Hexachlorobutadiene	22.68	225	2850	0.43 ug/L	90
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.84 ug/L	94

(#) = qualifier out of range (m) = manual integration
03171107.D 031411.M Thu Mar 17 13:57:42 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



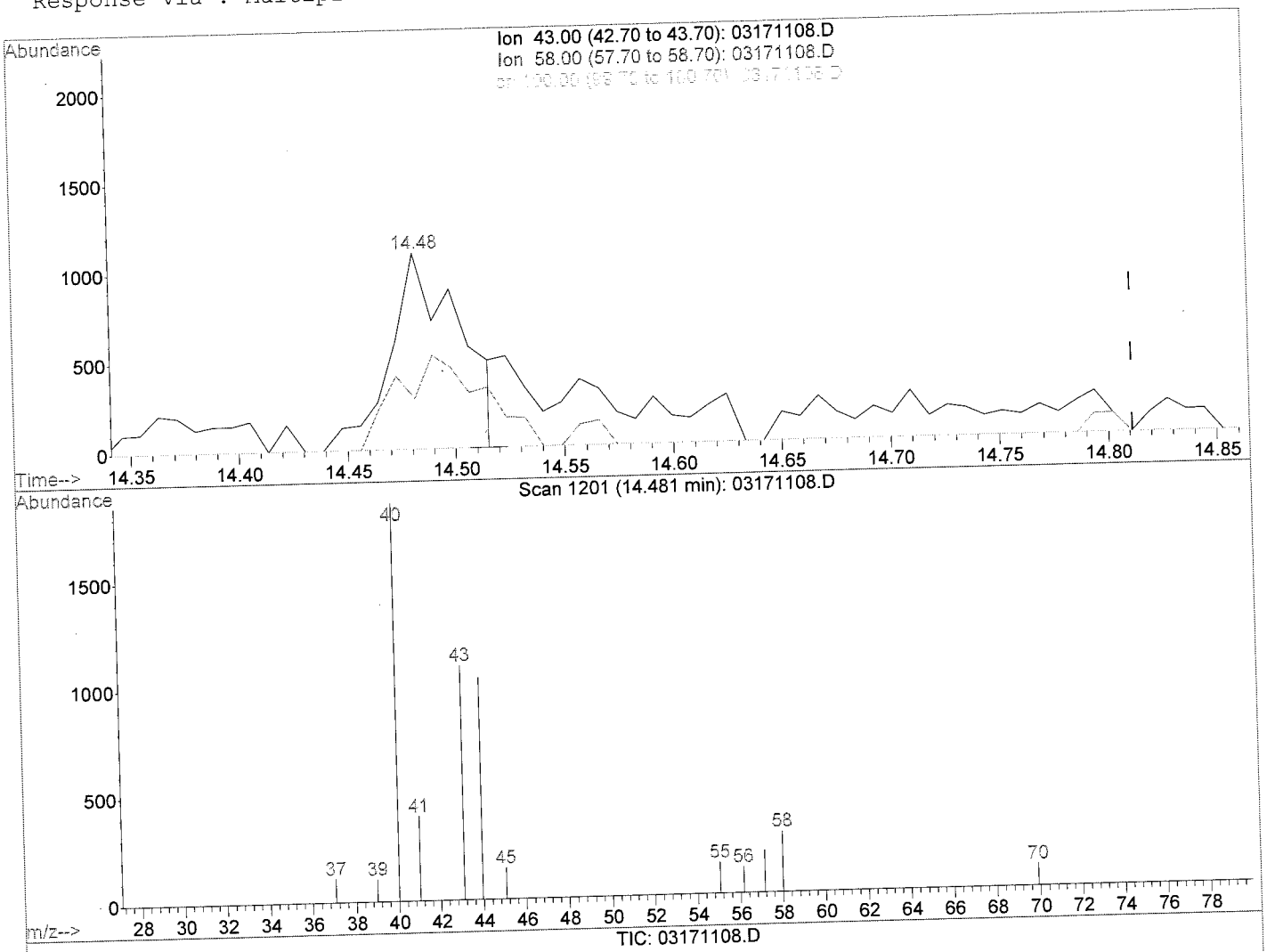
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration



(43) 2-Hexanone (T)

14.48min 1.28ug/L

response 2474

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	39.81
100.00	0.00	0.00
0.00	0.00	0.00

Before - NIP

LC 03/18/11

03171108.D 031411.M Thu Mar 17 13:59:09 2011

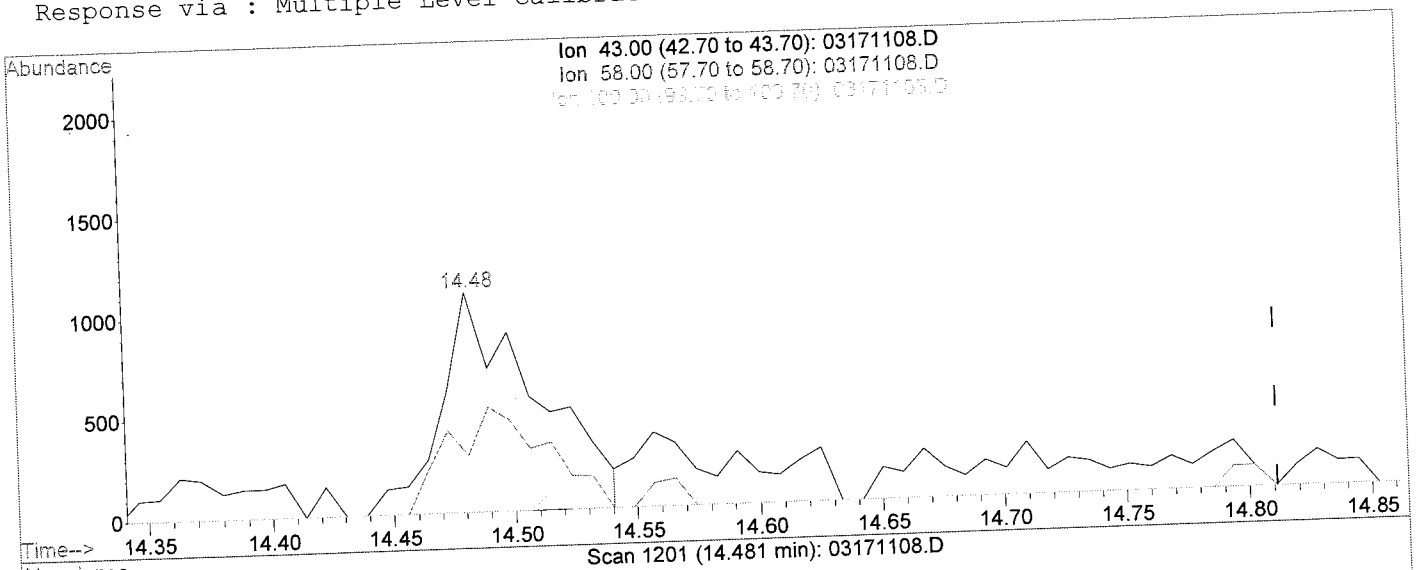
Quantitation Report (Qedit)

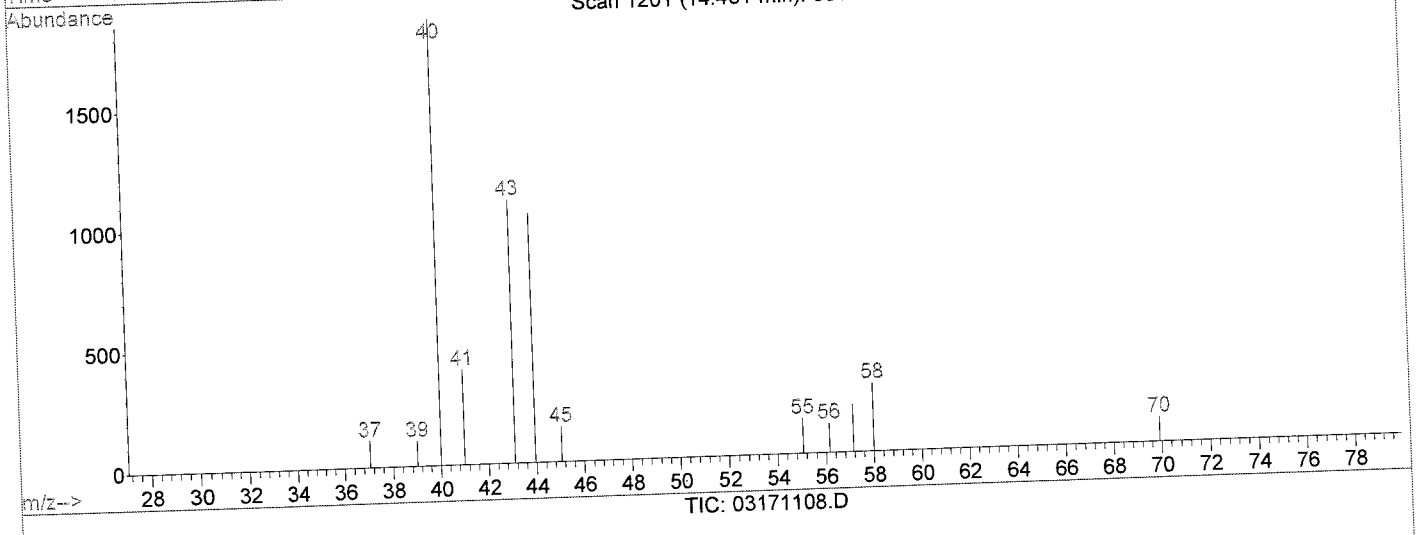
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(43) 2-Hexanone (T)

14.48min 1.55ug/L m

response 2999

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	32.84#
100.00	0.00	0.00
0.00	0.00	0.00

After

MJ

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.80%	
39) Toluene-d8	14.12	98	28802	2.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.16%	
53) 4-Bromofluorobenzene	17.75	95	10411	2.08 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.32%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.95 ug/L	94
3) Chloromethane	4.89	50	22795	2.00 ug/L	97
4) Vinyl chloride	5.18	62	22297	2.00 ug/L	95
5) Bromomethane	5.77	94	6970	1.41 ug/L	95
6) Chloroethane	5.98	64	11754	1.97 ug/L #	85
7) Trichlorofluoromethane	6.78	101	16143	1.94 ug/L	100
8) Acetone	6.94	43	4997	2.62 ug/L	97
9) Iodomethane	7.57	142	5343	1.38 ug/L	96
10) 1,1-Dichloroethene	7.51	96	8308	1.69 ug/L	98
11) Methylene chloride	7.71	84	10726	1.93 ug/L	97
12) Freon 113	7.77	101	10221	1.89 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.70 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.85 ug/L	97
15) MTBE	8.73	73	16615	1.90 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.93 ug/L	99
17) Vinyl acetate	9.08	43	14566	1.77 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	0.63 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.03 ug/L	91
20) Bromochloromethane	9.88	128	3627	1.82 ug/L	89
21) Chloroform	9.93	83	18162	2.07 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.91 ug/L	96
24) 1,2-Dichloroethane	10.78	62	10721	2.06 ug/L #	94
25) 1,1,1-Trichloroethane	10.91	97	12034	1.83 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	99
28) Carbon tetrachloride	11.38	117	9830	1.86 ug/L	94
29) Benzene	11.44	78	39494	1.97 ug/L	99
30) Dibromomethane	12.17	93	4597	1.92 ug/L	90
31) 1,2-Dichloropropane	12.22	63	10960	1.95 ug/L #	94
32) Trichloroethene	12.27	95	9761	1.93 ug/L	94
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.91 ug/L #	85
35) cis-1,3-Dichloropropene	13.16	75	13465	1.88 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.68 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.85 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.91 ug/L	94
40) Toluene	14.21	92	22811	2.03 ug/L	97
42) 1,3-Dichloropropane	14.28	76	10418	1.86 ug/L	92

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

3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

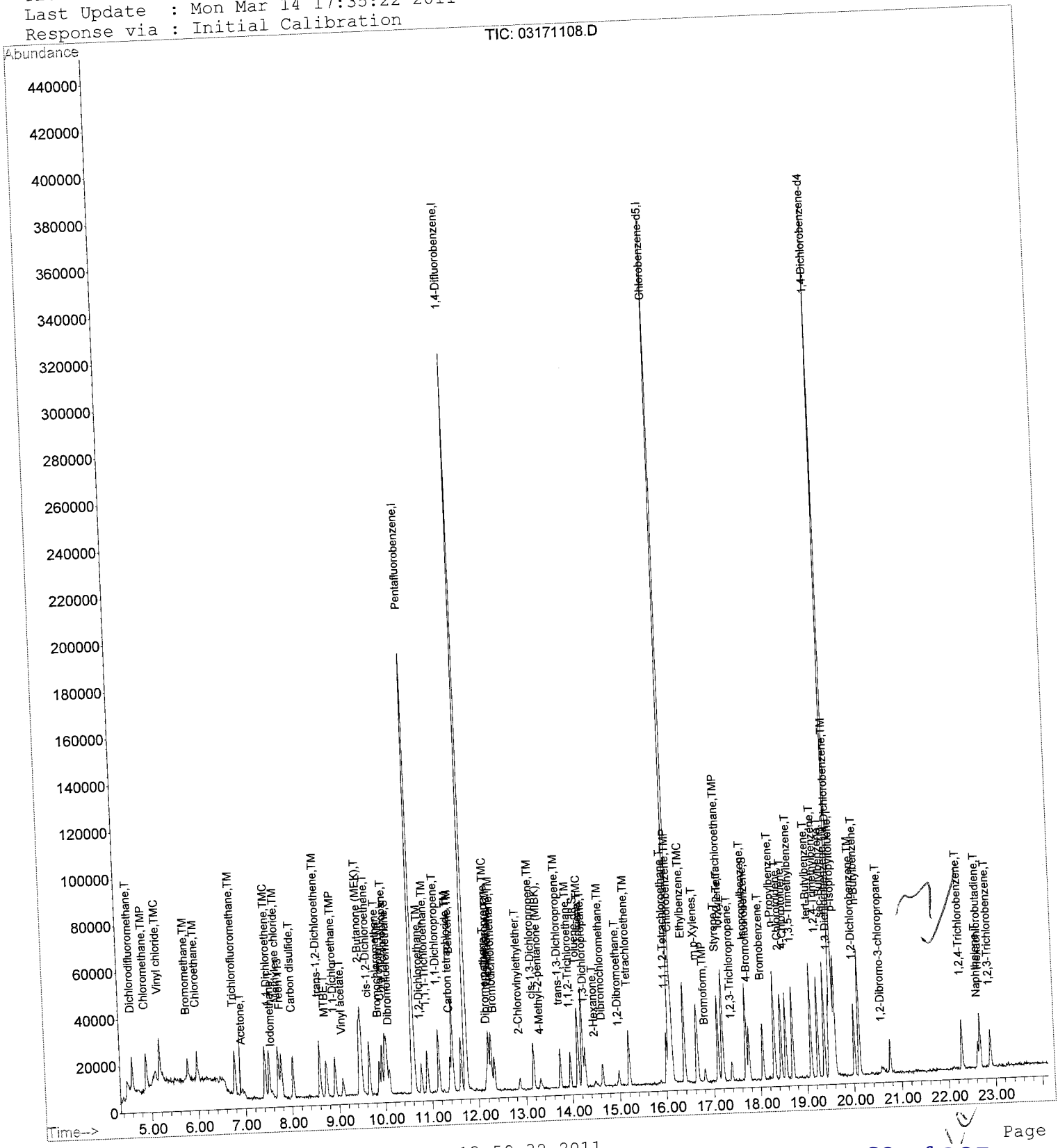
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2999m	1.55 ug/L	
44) Dibromochloromethane	14.65	129	6238	1.94 ug/L	97
45) 1,2-Dibromoethane	14.99	107	5443	1.99 ug/L #	100
46) Tetrachloroethene	15.21	166	8224	1.88 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	6797	1.94 ug/L	95
48) Chlorobenzene	16.12	112	21803	1.89 ug/L	90
49) Ethylbenzene	16.38	91	40622	1.91 ug/L	99
50) m,p-Xylenes	16.64	106	14567	1.95 ug/L	99
51) Styrene	17.09	104	21955	1.91 ug/L	100
52) o-Xylene	17.19	106	14080	1.95 ug/L	98
55) Bromoform	16.81	173	2978	1.87 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L	95
57) 1,2,3-Trichloropropane	17.40	110	1450	2.05 ug/L	99
58) Isopropylbenzene	17.69	105	34246	1.94 ug/L	99
59) Bromobenzene	18.05	156	7927	1.99 ug/L	98
60) n-Propylbenzene	18.30	91	47531	1.91 ug/L	99
61) 2-Chlorotoluene	18.44	91	27642	1.93 ug/L	99
62) 4-Chlorotoluene	18.55	91	28051	1.96 ug/L	99
63) 1,3,5-Trimethylbenzene	18.71	105	28488	1.90 ug/L	97
64) tert-Butylbenzene	19.09	119	24316	1.89 ug/L	95
65) 1,2,4-Trimethylbenzene	19.24	105	29321	1.92 ug/L	96
66) sec-Butylbenzene	19.38	105	43119	1.97 ug/L	96
67) 1,3-Dichlorobenzene	19.48	146	16064	1.97 ug/L	96
68) 1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L	97
69) p-Isopropyltoluene	19.61	119	32053	1.88 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	13744	1.99 ug/L	99
71) n-Butylbenzene	20.12	91	35106	1.86 ug/L	97
72) 1,2-Dibromo-3-chloropropan	20.59	157	972	2.24 ug/L #	75
73) 1,2,4-Trichlorobenzene	22.29	180	8342	1.70 ug/L	96
74) Naphthalene	22.63	128	10824	1.73 ug/L	100
75) Hexachlorobutadiene	22.68	225	5711	1.50 ug/L	98
76) 1,2,3-Trichlorobenzene	22.90	180	7016	1.72 ug/L	94

(#) = qualifier out of range (m) = manual integration
03171108.D 031411.M Thu Mar 17 13:59:31 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.84 ug/L	0.00
Spiked Amount 25.000			Recovery	= 23.36%	
39) Toluene-d8	14.12	98	75601	5.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.36%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.84%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.56 ug/L	98
3) Chloromethane	4.90	50	69304	6.20 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.46 ug/L	97
5) Bromomethane	5.77	94	23286	4.82 ug/L	97
6) Chloroethane	5.98	64	31380	5.37 ug/L	97
7) Trichlorofluoromethane	6.78	101	44900	5.49 ug/L	98
8) Acetone	6.94	43	8551	5.67 ug/L	96
9) Iodomethane	7.57	142	19144	5.06 ug/L	100
10) 1,1-Dichloroethene	7.51	96	23635	5.45 ug/L	96
11) Methylene chloride	7.71	84	29505	5.41 ug/L	98
12) Freon 113	7.78	101	28220	5.32 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.39 ug/L	89
15) MTBE	8.74	73	47481	5.54 ug/L	98
16) 1,1-Dichloroethane	8.92	63	57409	5.51 ug/L	100
17) Vinyl acetate	9.09	43	45219	5.60 ug/L	97
18) 2-Butanone (MEK)	9.47	72	1224	4.43 ug/L #	38
19) cis-1,2-Dichloroethene	9.66	96	29437	5.59 ug/L	93
20) Bromochloromethane	9.87	128	11063	5.67 ug/L	98
21) Chloroform	9.93	83	49311	5.72 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.50 ug/L	98
24) 1,2-Dichloroethane	10.78	62	29254	5.73 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.44 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.37 ug/L	98
29) Benzene	11.44	78	106054	5.27 ug/L	99
30) Dibromomethane	12.17	93	12758	5.32 ug/L	96
31) 1,2-Dichloropropane	12.21	63	30926	5.49 ug/L	98
32) Trichloroethene	12.26	95	27719	5.47 ug/L	93
33) Bromodichloromethane	12.33	83	32710	5.51 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.30 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	39480	5.52 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	4.84 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.29 ug/L	99
40) Toluene	14.21	92	60380	5.37 ug/L	100
42) 1,3-Dichloropropane	14.27	76	31749	5.61 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171109.D 031411.M Thu Mar 17 14:00:04 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 13:59 2011

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

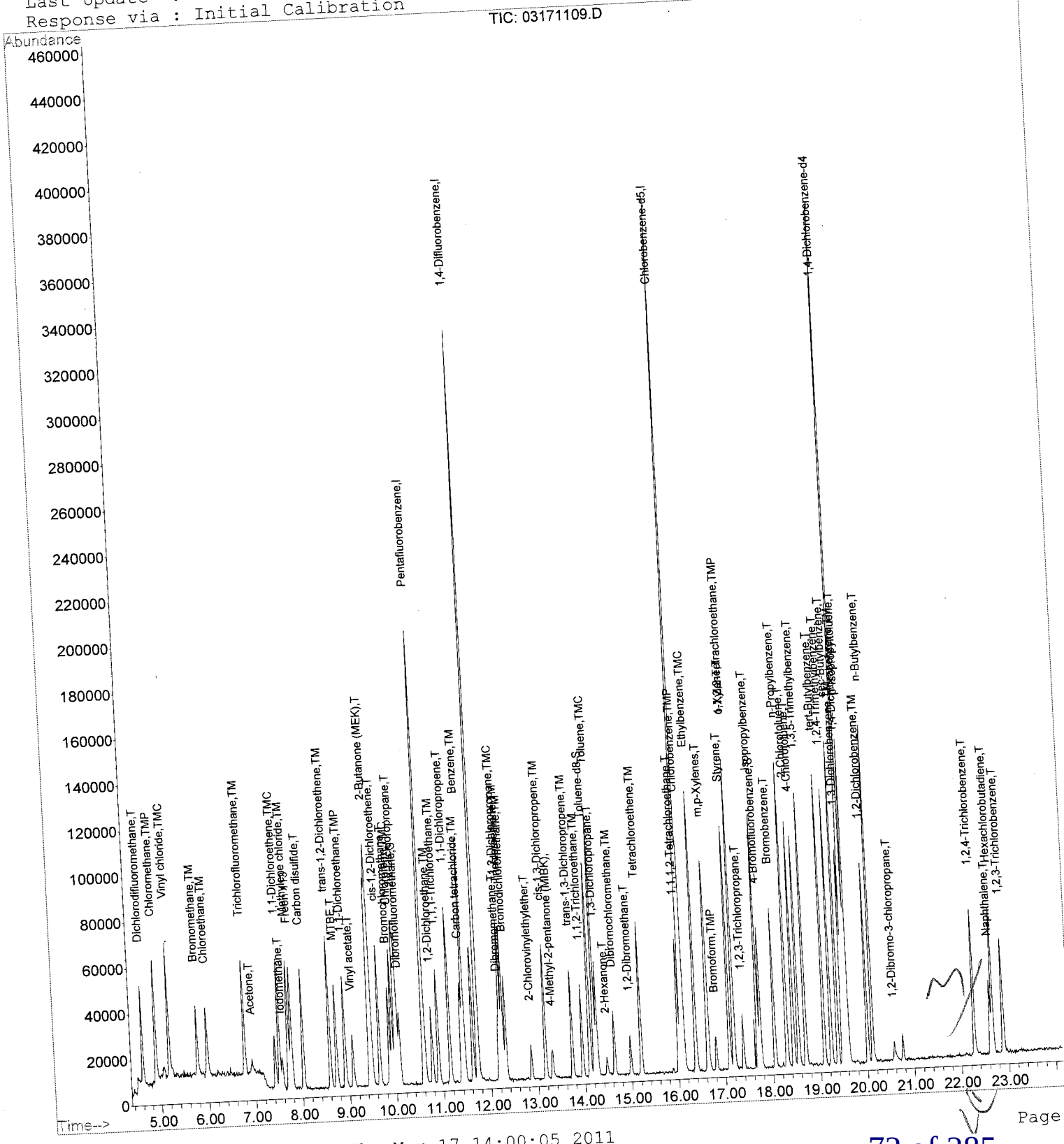
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	10625	5.44 ug/L #	92
44) Dibromochloromethane	14.64	129	17145	5.27 ug/L	98
45) 1,2-Dibromoethane	14.98	107	15883	5.75 ug/L #	97
46) Tetrachloroethene	15.21	166	22589	5.10 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.00	131	18388	5.20 ug/L	97
48) Chlorobenzene	16.12	112	60084	5.16 ug/L	96
49) Ethylbenzene	16.38	91	112334	5.23 ug/L	100
50) m,p-Xylenes	16.64	106	39718	5.25 ug/L	100
51) Styrene	17.09	104	62548	5.37 ug/L	99
52) o-Xylene	17.20	106	38050	5.20 ug/L	99
55) Bromoform	16.81	173	9209	5.63 ug/L	92
56) 1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L	97
57) 1,2,3-Trichloropropane	17.38	110	4203	5.79 ug/L	86
58) Isopropylbenzene	17.69	105	91339	5.05 ug/L	98
59) Bromobenzene	18.05	156	21568	5.28 ug/L	97
60) n-Propylbenzene	18.30	91	134531	5.26 ug/L	97
61) 2-Chlorotoluene	18.45	91	75803	5.15 ug/L	100
62) 4-Chlorotoluene	18.55	91	77070	5.24 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	79213	5.14 ug/L	100
64) tert-Butylbenzene	19.09	119	66536	5.03 ug/L	97
65) 1,2,4-Trimethylbenzene	19.23	105	78965	5.03 ug/L	100
66) sec-Butylbenzene	19.37	105	115485	5.13 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	42641	5.08 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L	97
69) p-Isopropyltoluene	19.60	119	87337	5.00 ug/L	97
70) 1,2-Dichlorobenzene	20.01	146	38242	5.39 ug/L	99
71) n-Butylbenzene	20.12	91	99714	5.16 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	2137	4.80 ug/L	95
73) 1,2,4-Trichlorobenzene	22.28	180	24323	4.82 ug/L	99
74) Naphthalene	22.63	128	32491	5.06 ug/L	100
75) Hexachlorobutadiene	22.68	225	14709	4.71 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	20581	4.91 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031411.M Thu Mar 17 14:00:04 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 13:59 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.76 ug/L	0.00
Spiked Amount 25.000			Recovery	= 43.04%	
39) Toluene-d8	14.12	98	143321	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 40.72%	
53) 4-Bromofluorobenzene	17.75	95	50923	10.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 40.64%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	9.93 ug/L	100
3) Chloromethane	4.89	50	135497	11.91 ug/L	99
4) Vinyl chloride	5.19	62	111850	10.07 ug/L	100
5) Bromomethane	5.78	94	53427	10.86 ug/L	91
6) Chloroethane	5.98	64	63788	10.72 ug/L	98
7) Trichlorofluoromethane	6.78	101	85392	10.27 ug/L	99
8) Acetone	6.94	43	11502	8.08 ug/L	97
9) Iodomethane	7.57	142	36401	9.45 ug/L	95
10) 1,1-Dichloroethene	7.51	96	46909	10.89 ug/L	94
11) Methylene chloride	7.71	84	55460	9.98 ug/L	99
12) Freon 113	7.78	101	52409	9.70 ug/L	99
13) Carbon disulfide	8.03	76	162804	10.64 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.90 ug/L	94
15) MTBE	8.74	73	84759	9.71 ug/L	96
16) 1,1-Dichloroethane	8.92	63	108838	10.26 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.96 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	9.44 ug/L	88
19) cis-1,2-Dichloroethene	9.66	96	53573	9.99 ug/L	98
20) Bromochloromethane	9.88	128	20976	10.55 ug/L	100
21) Chloroform	9.93	83	95119	10.84 ug/L	100
22) 2,2-Dichloropropane	10.04	77	73939	10.10 ug/L	98
24) 1,2-Dichloroethane	10.77	62	53618	10.31 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	66517	10.14 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.21 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.31 ug/L	98
29) Benzene	11.44	78	201076	10.05 ug/L	100
30) Dibromomethane	12.17	93	24596	10.31 ug/L	96
31) 1,2-Dichloropropane	12.21	63	55294	9.87 ug/L	100
32) Trichloroethene	12.27	95	49861	9.89 ug/L	98
33) Bromodichloromethane	12.33	83	60334	10.22 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	9.32 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	73950	10.38 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.23 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.24 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	27640	10.13 ug/L	97
40) Toluene	14.21	92	114354	10.22 ug/L	100
42) 1,3-Dichloropropane	14.27	76	56624	10.10 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171110.D 031411.M Thu Mar 17 14:00:50 2011

3/4/11 m
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

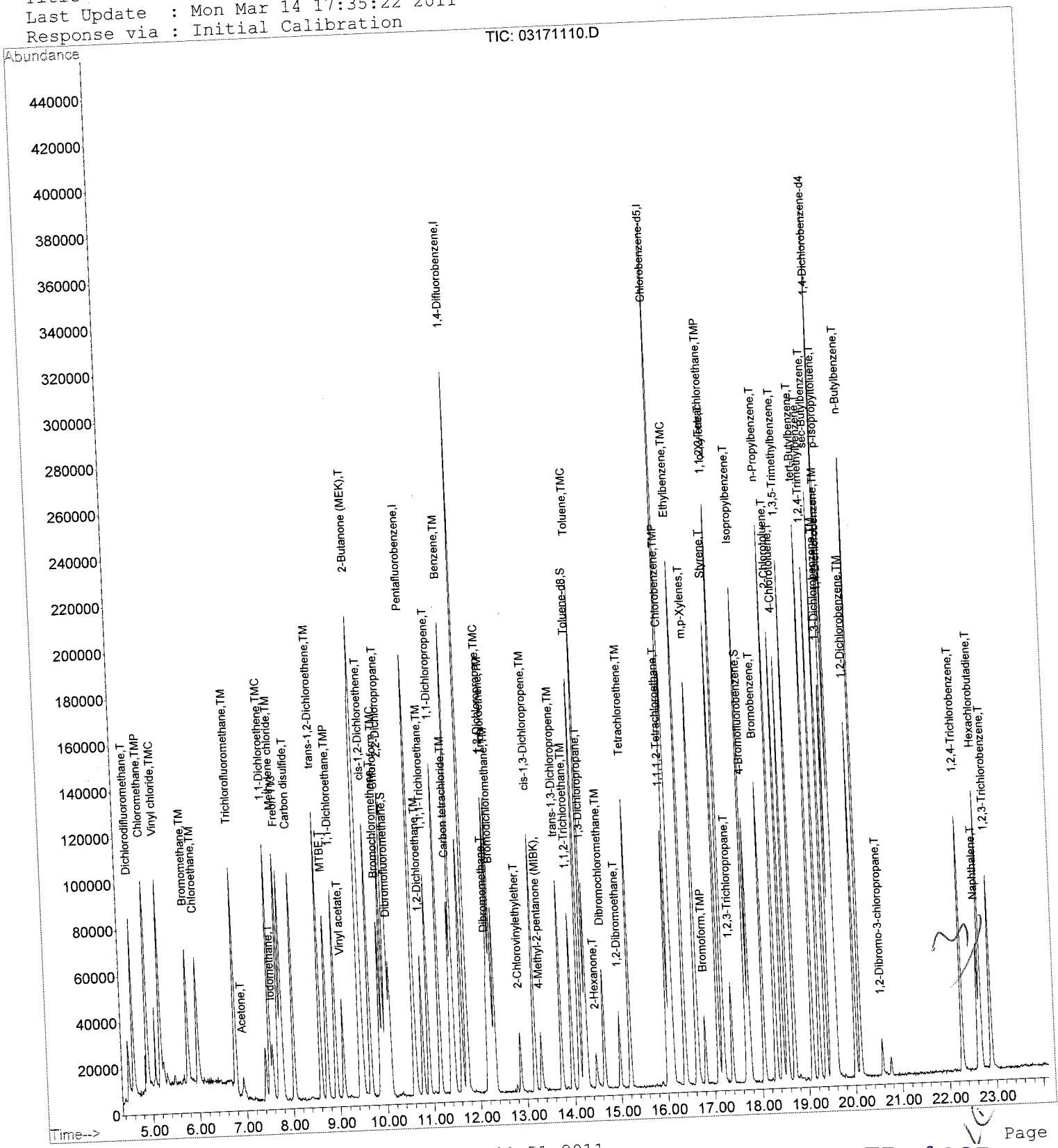
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	17603	9.10 ug/L #	96
44) Dibromochloromethane	14.64	129	32389	10.06 ug/L	100
45) 1,2-Dibromoethane	14.98	107	28536	10.44 ug/L	98
46) Tetrachloroethene	15.21	166	44478	10.14 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	35495	10.14 ug/L	99
48) Chlorobenzene	16.12	112	113625	9.85 ug/L	100
49) Ethylbenzene	16.38	91	215370	10.13 ug/L	100
50) m,p-Xylenes	16.64	106	74201	9.90 ug/L	98
51) Styrene	17.09	104	115227	9.99 ug/L	98
52) o-Xylene	17.20	106	71920	9.92 ug/L	97
55) Bromoform	16.81	173	16316	10.52 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L #	99
57) 1,2,3-Trichloropropane	17.39	110	7243	10.53 ug/L	96
58) Isopropylbenzene	17.69	105	176438	10.28 ug/L	100
59) Bromobenzene	18.05	156	40825	10.54 ug/L	98
60) n-Propylbenzene	18.30	91	250684	10.34 ug/L	98
61) 2-Chlorotoluene	18.45	91	143783	10.30 ug/L	100
62) 4-Chlorotoluene	18.55	91	141563	10.15 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	151285	10.35 ug/L	98
64) tert-Butylbenzene	19.09	119	128292	10.22 ug/L	98
65) 1,2,4-Trimethylbenzene	19.23	105	149598	10.05 ug/L	99
66) sec-Butylbenzene	19.37	105	214687	10.06 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	80400	10.10 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L	99
69) p-Isopropyltoluene	19.61	119	168592	10.18 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	69024	10.25 ug/L	99
71) n-Butylbenzene	20.12	91	183374	10.00 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	4643	11.01 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	41924	8.76 ug/L	100
74) Naphthalene	22.63	128	55616	9.13 ug/L	100
75) Hexachlorobutadiene	22.68	225	29027	10.49 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	34759	8.75 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171110.D 031411.M Thu Mar 17 14:00:51 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	26.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.64%	
39) Toluene-d8	14.12	98	359841	25.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.68%	
53) 4-Bromofluorobenzene	17.75	95	128707	25.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.20 ug/L	98
3) Chloromethane	4.89	50	322628	28.77 ug/L	99
4) Vinyl chloride	5.18	62	283499	25.90 ug/L	100
5) Bromomethane	5.78	94	141242	29.13 ug/L	96
6) Chloroethane	5.98	64	150117	25.60 ug/L	98
7) Trichlorofluoromethane	6.78	101	214158	26.12 ug/L	99
8) Acetone	6.94	43	25928	23.73 ug/L	98
9) Iodomethane	7.57	142	98109	25.84 ug/L	97
10) 1,1-Dichloroethene	7.51	96	111502	26.67 ug/L	98
11) Methylene chloride	7.71	84	132209	24.14 ug/L	99
12) Freon 113	7.77	101	133636	25.10 ug/L	98
13) Carbon disulfide	8.03	76	401884	27.15 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.92 ug/L	98
15) MTBE	8.74	73	214946	24.98 ug/L	99
16) 1,1-Dichloroethane	8.92	63	264682	25.31 ug/L	99
17) Vinyl acetate	9.08	43	202265	24.98 ug/L	99
18) 2-Butanone (MEK)	9.47	72	6903	24.88 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	131490	24.87 ug/L	99
20) Bromochloromethane	9.87	128	47437	24.21 ug/L	94
21) Chloroform	9.93	83	218360	25.26 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	24.96 ug/L	98
24) 1,2-Dichloroethane	10.78	62	136474	26.62 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	162207	25.09 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.70 ug/L	99
28) Carbon tetrachloride	11.39	117	133369	25.74 ug/L	100
29) Benzene	11.44	78	490622	24.87 ug/L	99
30) Dibromomethane	12.17	93	58067	24.68 ug/L	98
31) 1,2-Dichloropropane	12.21	63	140014	25.35 ug/L	99
32) Trichloroethene	12.27	95	124690	25.08 ug/L	98
33) Bromodichloromethane	12.33	83	150764	25.89 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	21.41 ug/L	98
35) cis-1,3-Dichloropropene	13.16	75	183565	26.14 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	23.09 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.77 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	24.66 ug/L	98
40) Toluene	14.21	92	282149	25.56 ug/L	98
42) 1,3-Dichloropropane	14.27	76	140210	25.26 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171111.D 031411.M Thu Mar 17 14:01:22 2011

3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	44449	23.20 ug/L #	93
44) Dibromochloromethane	14.64	129	81864	25.66 ug/L	99
45) 1,2-Dibromoethane	14.98	107	70424	26.01 ug/L	99
46) Tetrachloroethene	15.21	166	109364	25.16 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	87769	25.31 ug/L	97
48) Chlorobenzene	16.12	112	284407	24.90 ug/L	99
49) Ethylbenzene	16.37	91	538674	25.57 ug/L	99
50) m,p-Xylenes	16.64	106	186494	25.11 ug/L	99
51) Styrene	17.09	104	295005	25.82 ug/L	99
52) o-Xylene	17.19	106	177920	24.79 ug/L	97
55) Bromoform	16.81	173	42372	26.71 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	82184	24.99 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	18834	26.78 ug/L	95
58) Isopropylbenzene	17.69	105	445254	25.36 ug/L	100
59) Bromobenzene	18.05	156	105054	26.51 ug/L	98
60) n-Propylbenzene	18.30	91	632559	25.51 ug/L	99
61) 2-Chlorotoluene	18.44	91	364433	25.52 ug/L	100
62) 4-Chlorotoluene	18.55	91	369067	25.87 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	381972	25.55 ug/L	100
64) tert-Butylbenzene	19.09	119	324112	25.26 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	382900	25.14 ug/L	99
66) sec-Butylbenzene	19.37	105	556785	25.52 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	205642	25.27 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	201942	24.80 ug/L	99
69) p-Isopropyltoluene	19.61	119	434002	25.61 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	178826	25.97 ug/L	99
71) n-Butylbenzene	20.12	91	487367	26.00 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	11318	26.23 ug/L	95
73) 1,2,4-Trichlorobenzene	22.28	180	122376	25.01 ug/L	99
74) Naphthalene	22.63	128	163821	26.30 ug/L	100
75) Hexachlorobutadiene	22.69	225	76790	28.14 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	101564	24.99 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031411.M Thu Mar 17 14:01:22 2011

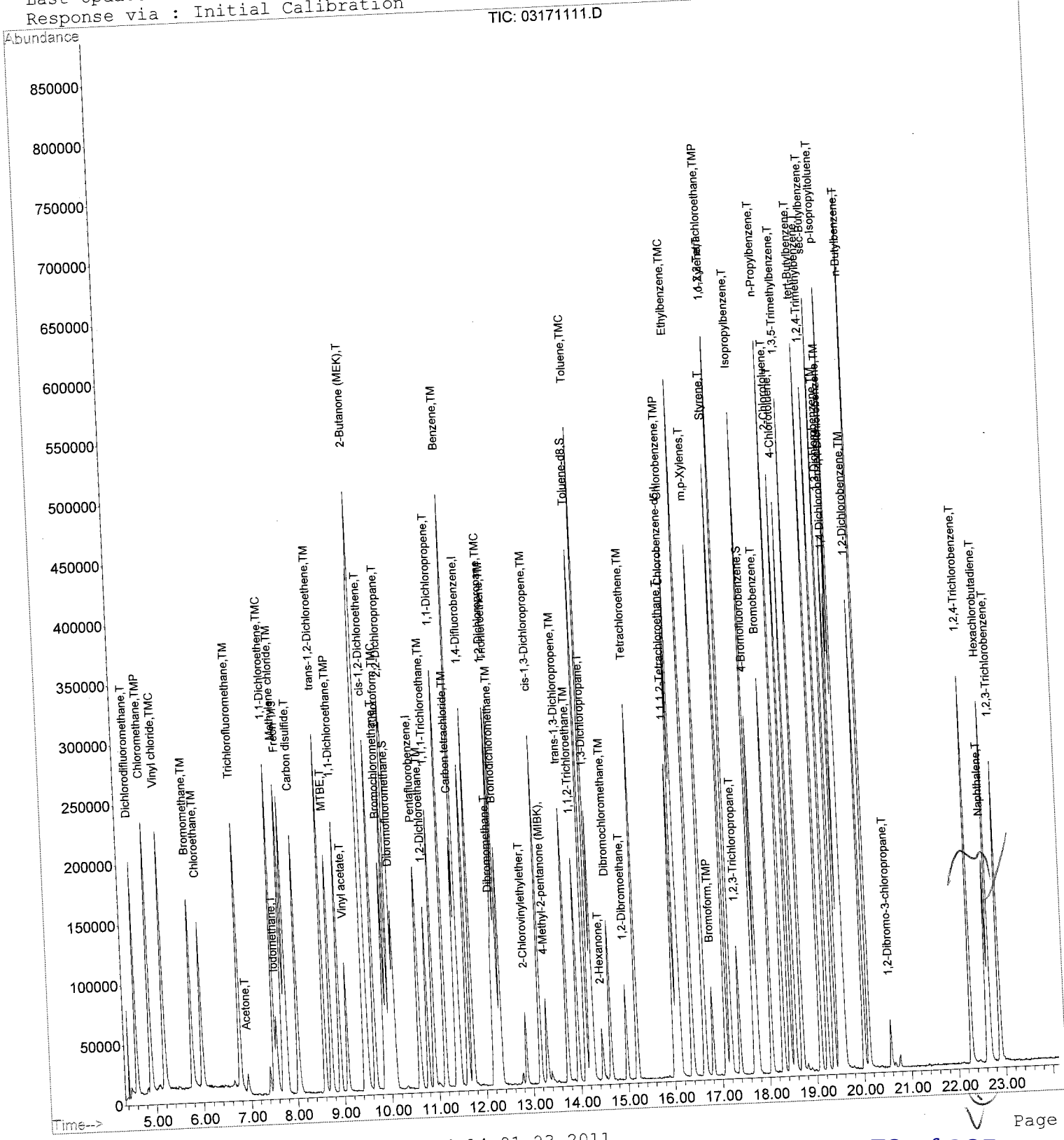
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	49.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 196.48%	
39) Toluene-d8	14.11	98	726789	50.32 ug/L	0.00
Spiked Amount 25.000			Recovery	= 201.28%	
53) 4-Bromofluorobenzene	17.76	95	259969	50.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 202.16%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	46.88 ug/L	100
3) Chloromethane	4.90	50	687656	58.35 ug/L	100
4) Vinyl chloride	5.18	62	596978	51.89 ug/L	98
5) Bromomethane	5.78	94	296252	58.13 ug/L	98
6) Chloroethane	5.99	64	300876	48.83 ug/L	97
7) Trichlorofluoromethane	6.78	101	340516	39.53 ug/L	98
8) Acetone	6.93	43	44278	Below Cal	99
9) Iodomethane	7.58	142	195341	48.96 ug/L	99
10) 1,1-Dichloroethene	7.52	96	220268	50.38 ug/L	97
11) Methylene chloride	7.71	84	264019	45.88 ug/L	99
12) Freon 113	7.78	101	262900	47.00 ug/L	99
13) Carbon disulfide	8.03	76	807912	52.24 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.50 ug/L	98
15) MTBE	8.73	73	407385	45.06 ug/L	98
16) 1,1-Dichloroethane	8.92	63	517515	47.09 ug/L	100
17) Vinyl acetate	9.08	43	400997	47.13 ug/L	100
18) 2-Butanone (MEK)	9.47	72	13656	46.83 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	257331	46.32 ug/L	99
20) Bromochloromethane	9.87	128	96376	46.81 ug/L	98
21) Chloroform	9.93	83	424654	46.74 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.12 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	48.57 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	323769	47.65 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.22 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	49.71 ug/L	100
29) Benzene	11.44	78	1008066	49.11 ug/L	99
30) Dibromomethane	12.17	93	116662	47.65 ug/L	97
31) 1,2-Dichloropropane	12.21	63	281688	49.02 ug/L	99
32) Trichloroethene	12.26	95	255144	49.32 ug/L	98
33) Bromodichloromethane	12.33	83	300337	49.57 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	37.02 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	364674	49.91 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	44.54 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.71 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	47.11 ug/L	97
40) Toluene	14.22	92	583744	50.83 ug/L	100
42) 1,3-Dichloropropane	14.27	76	277506	48.23 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171112.D 031411.M Thu Mar 17 14:02:05 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

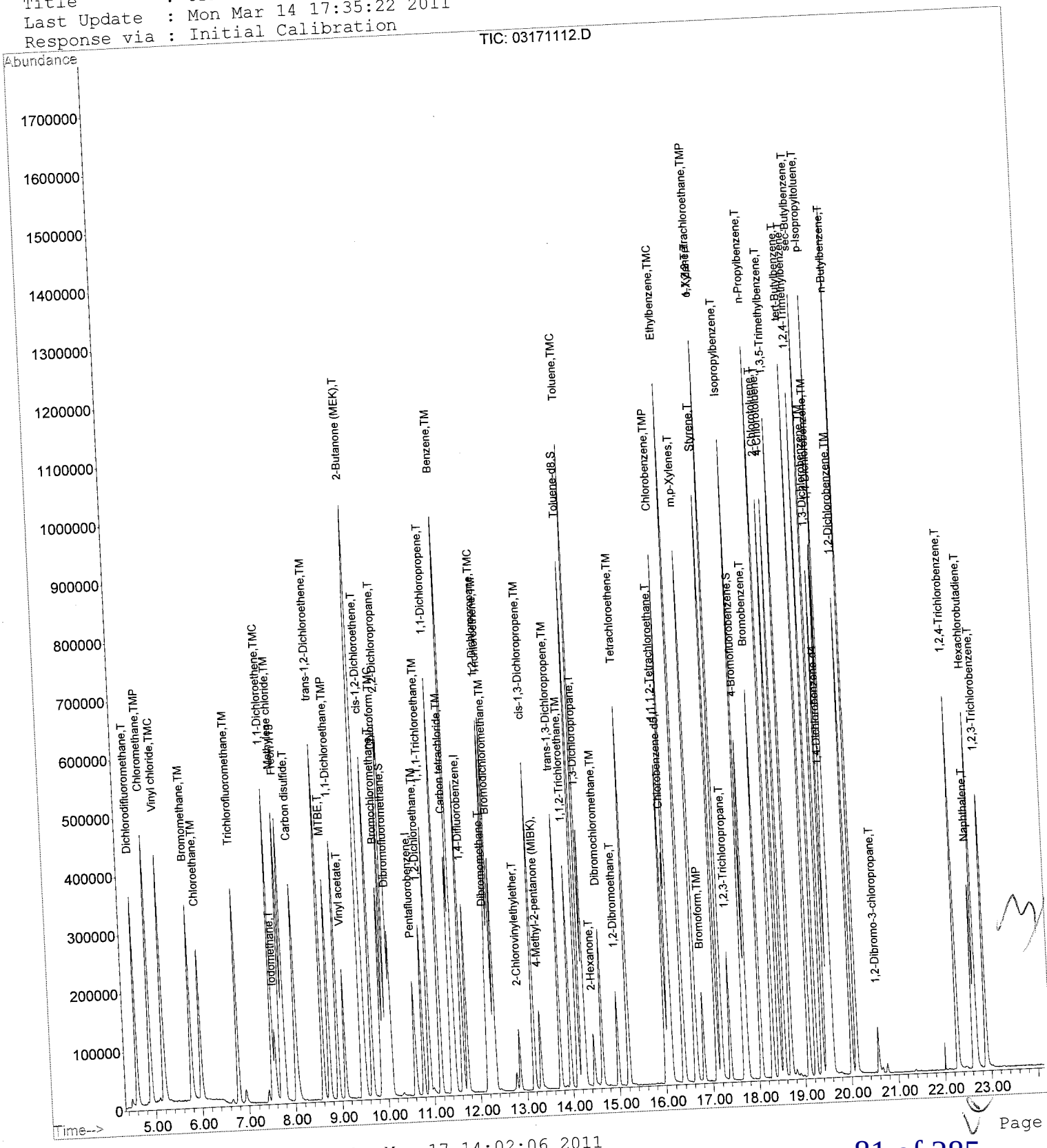
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	48.63 ug/L #	100
44) Dibromochloromethane	14.65	129	168655	51.01 ug/L	99
45) 1,2-Dibromoethane	14.98	107	142279	50.69 ug/L	99
46) Tetrachloroethene	15.20	166	223148	49.54 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	50.19 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.72 ug/L	99
49) Ethylbenzene	16.38	91	1095906	50.20 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.92 ug/L	97
51) Styrene	17.10	104	602783	50.90 ug/L	100
52) o-Xylene	17.20	106	366193	49.22 ug/L	100
55) Bromoform	16.82	173	87491	53.39 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.00 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	51.09 ug/L	99
58) Isopropylbenzene	17.70	105	904235	49.87 ug/L	99
59) Bromobenzene	18.05	156	210716	51.49 ug/L	98
60) n-Propylbenzene	18.30	91	1279523	49.95 ug/L	99
61) 2-Chlorotoluene	18.45	91	736550	49.95 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.28 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.43 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	49.92 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	772492	49.11 ug/L	98
66) sec-Butylbenzene	19.38	105	1121222	49.75 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	414698	49.34 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	411367	48.92 ug/L	99
69) p-Isopropyltoluene	19.61	119	866615	49.52 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	50.59 ug/L	100
71) n-Butylbenzene	20.11	91	964633	49.82 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	50.62 ug/L	96
73) 1,2,4-Trichlorobenzene	22.28	180	240360	47.56 ug/L	100
74) Naphthalene	22.63	128	314469	48.88 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	53.99 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	192513	45.85 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171112.D 031411.M Thu Mar 17 14:02:06 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 14:01 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171112.D 031411.M Thu Mar 17 14:02:06 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 14:02 2011

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	101.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 407.72%	
39) Toluene-d8	14.12	98	1505447	102.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 408.48%	
53) 4-Bromofluorobenzene	17.75	95	536695	104.44 ug/L	0.00
Spiked Amount 25.000			Recovery	= 417.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	92.13 ug/L	100
3) Chloromethane	4.90	50	1431368	119.80 ug/L	100
4) Vinyl chloride	5.18	62	1228117	105.30 ug/L	100
5) Bromomethane	5.78	94	641424	124.14 ug/L	98
6) Chloroethane	5.98	64	584071	93.50 ug/L	98
7) Trichlorofluoromethane	6.78	101	698452	79.96 ug/L	99
8) Acetone	6.94	43	84316	Below Cal	99
9) Iodomethane	7.58	142	393011	97.15 ug/L	96
10) 1,1-Dichloroethene	7.52	96	450680	101.96 ug/L	97
11) Methylene chloride	7.71	84	530536	90.93 ug/L	100
12) Freon 113	7.78	101	537890	94.84 ug/L	100
13) Carbon disulfide	8.04	76	1652598	105.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.91 ug/L	95
15) MTBE	8.74	73	859812	93.80 ug/L	100
16) 1,1-Dichloroethane	8.93	63	1054794	94.66 ug/L	100
17) Vinyl acetate	9.08	43	827230	95.91 ug/L	100
18) 2-Butanone (MEK)	9.47	72	27904	94.38 ug/L	95
19) cis-1,2-Dichloroethene	9.66	96	527963	93.73 ug/L	99
20) Bromochloromethane	9.87	128	191014	91.51 ug/L	99
21) Chloroform	9.93	83	877382	95.25 ug/L	99
22) 2,2-Dichloropropane	10.04	77	739530	96.19 ug/L	100
24) 1,2-Dichloroethane	10.78	62	540824	99.03 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	659685	95.75 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.61 ug/L	99
28) Carbon tetrachloride	11.39	117	547122	99.42 ug/L	100
29) Benzene	11.44	78	2051183	97.90 ug/L	100
30) Dibromomethane	12.17	93	236182	94.51 ug/L	98
31) 1,2-Dichloropropane	12.21	63	573859	97.85 ug/L	99
32) Trichloroethene	12.27	95	518186	98.14 ug/L	98
33) Bromodichloromethane	12.33	83	619726	100.21 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	69.01 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	755768	101.34 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	94.02 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.90 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	95.51 ug/L	97
40) Toluene	14.22	92	1181672	100.81 ug/L	100
42) 1,3-Dichloropropane	14.27	76	562918	97.92 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171113.D 031411.M Thu Mar 17 14:02:38 2011

M 3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

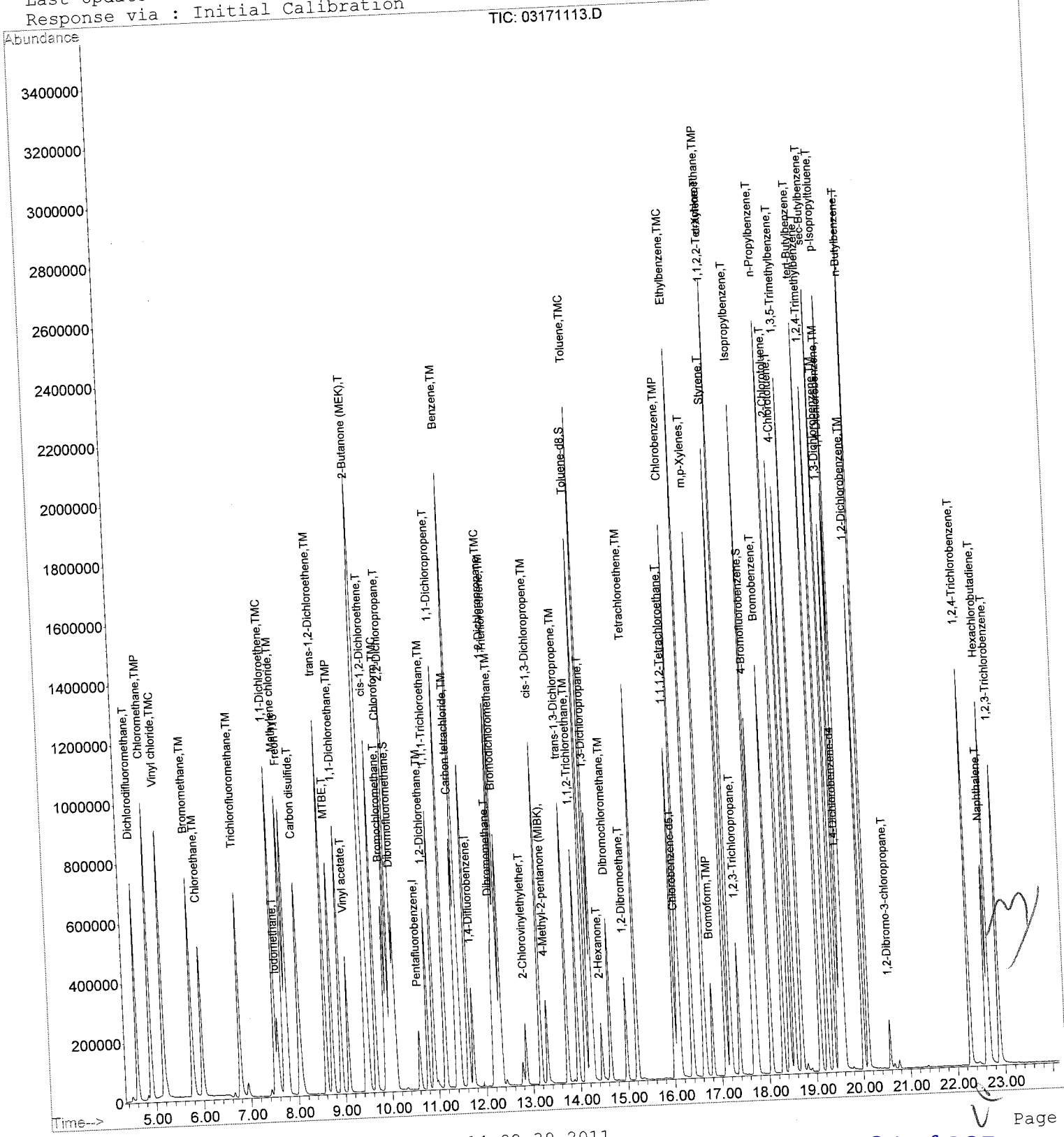
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	203381	102.53 ug/L #	97
44) Dibromochloromethane	14.65	129	341882	103.49 ug/L	99
45) 1,2-Dibromoethane	14.98	107	294156	104.89 ug/L	100
46) Tetrachloroethene	15.20	166	455622	101.24 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	371997	103.59 ug/L	98
48) Chlorobenzene	16.12	112	1190206	100.63 ug/L	99
49) Ethylbenzene	16.38	91	2245318	102.94 ug/L	99
50) m,p-Xylenes	16.64	106	773283	100.56 ug/L	99
51) Styrene	17.10	104	1244691	105.20 ug/L	100
52) o-Xylene	17.20	106	750628	100.99 ug/L	100
55) Bromoform	16.82	173	182147	107.85 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	341207	97.48 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	75618	101.00 ug/L	99
58) Isopropylbenzene	17.70	105	1844526	98.70 ug/L	100
59) Bromobenzene	18.05	156	429425	101.80 ug/L	99
60) n-Propylbenzene	18.30	91	2615929	99.09 ug/L	100
61) 2-Chlorotoluene	18.45	91	1500663	98.74 ug/L	99
62) 4-Chlorotoluene	18.55	91	1492720	98.30 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	1584063	99.53 ug/L	99
64) tert-Butylbenzene	19.09	119	1344278	98.40 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	1578520	97.37 ug/L	98
66) sec-Butylbenzene	19.39	105	2280043	98.16 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	847018	97.78 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	846913	97.72 ug/L	99
69) p-Isopropyltoluene	19.61	119	1785874	99.02 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	731103	99.76 ug/L	100
71) n-Butylbenzene	20.12	91	1981760	99.31 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	45883	99.91 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	510699	98.06 ug/L	98
74) Naphthalene	22.63	128	678287	102.29 ug/L	100
75) Hexachlorobutadiene	22.69	225	316227	110.66 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	412634	95.36 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171113.D 031411.M Thu Mar 17 14:02:38 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 14:02 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	839626	197.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 789.68%	
39) Toluene-d8	14.12	98	3013932	203.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 815.12%	
53) 4-Bromofluorobenzene	17.76	95	1038923	199.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 796.16%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	172.44 ug/L	99
3) Chloromethane	4.90	50	2913054	239.06 ug/L	100
4) Vinyl chloride	5.16	62	2428967	204.20 ug/L	99
5) Bromomethane	5.78	94	1343422	254.94 ug/L	99
6) Chloroethane	5.98	64	1199344	188.24 ug/L	98
7) Trichlorofluoromethane	6.79	101	1701514	191.01 ug/L	99
8) Acetone	6.94	43	201529	Below Cal	100
9) Iodomethane	7.58	142	794173	192.50 ug/L	99
10) 1,1-Dichloroethene	7.52	96	920511	204.48 ug/L	96
11) Methylene chloride	7.71	84	1063508	178.73 ug/L	98
12) Freon 113	7.78	101	1079115	186.56 ug/L	99
13) Carbon disulfide	8.03	76	3312605	208.15 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	187.33 ug/L	96
15) MTBE	8.74	73	1719756	183.97 ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	185.27 ug/L	99
17) Vinyl acetate	9.08	43	1660788	188.79 ug/L	100
18) 2-Butanone (MEK)	9.47	72	57153	189.53 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	186.86 ug/L	98
20) Bromochloromethane	9.88	128	361702	169.90 ug/L	98
21) Chloroform	9.93	83	1746080	185.86 ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	184.71 ug/L	99
24) 1,2-Dichloroethane	10.78	62	1056987	189.77 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	1325051	188.58 ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.90 ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	197.81 ug/L	100
29) Benzene	11.45	78	4061777	193.23 ug/L	100
30) Dibromomethane	12.17	93	461244	183.97 ug/L	99
31) 1,2-Dichloropropane	12.21	63	1126863	191.52 ug/L	99
32) Trichloroethene	12.27	95	1022222	192.97 ug/L	99
33) Bromodichloromethane	12.33	83	1217593	196.24 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	120.61 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	1495017	199.81 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	183.63 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.49 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	187.01 ug/L	98
40) Toluene	14.22	92	2368495	201.40 ug/L	100
42) 1,3-Dichloropropane	14.28	76	1107954	189.75 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171114.D 031411.M Thu Mar 17 14:03:08 2011

M 3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

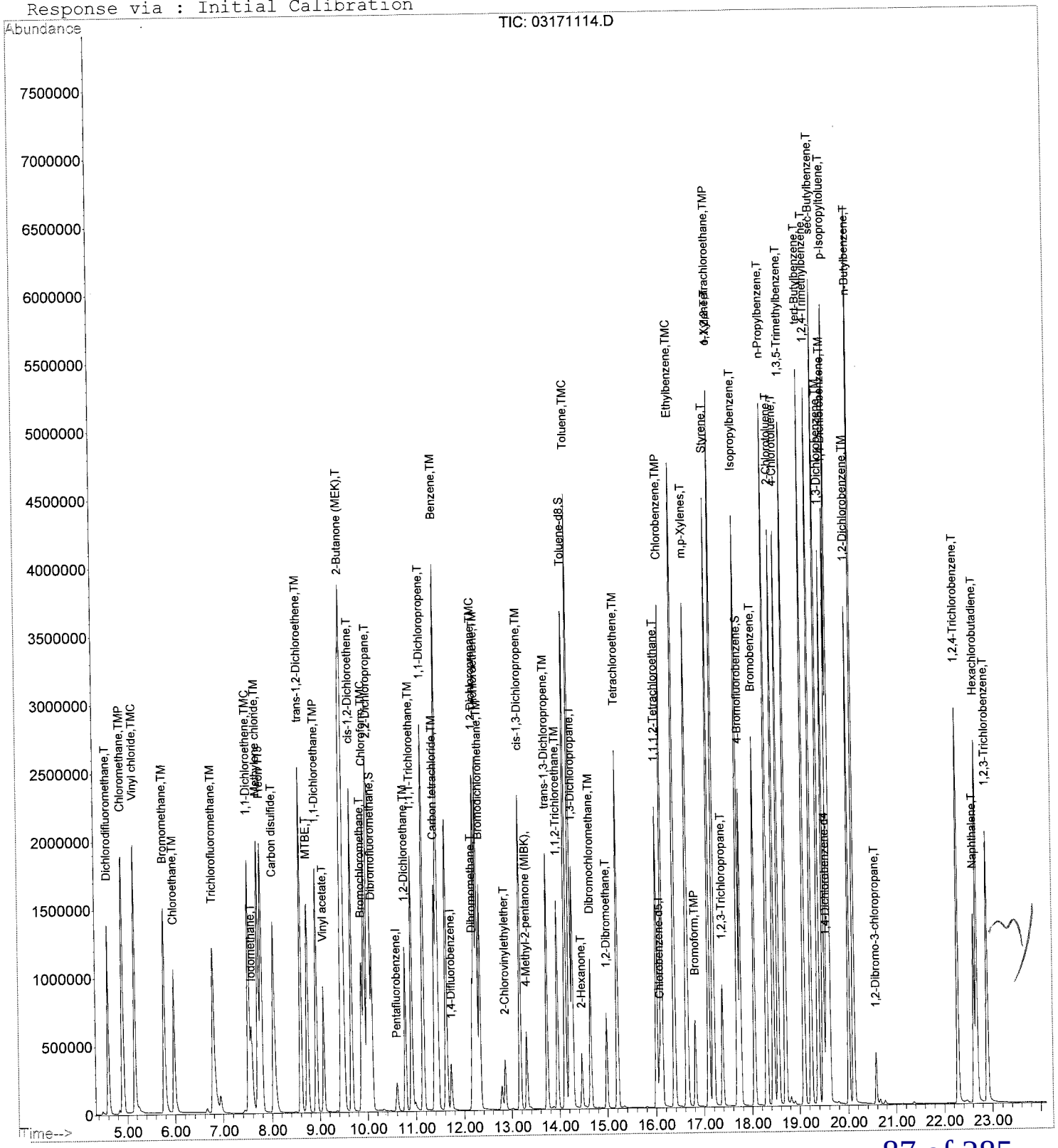
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	396743	196.91 ug/L #	97
44) Dibromochloromethane	14.65	129	686033	204.44 ug/L	100
45) 1,2-Dibromoethane	14.99	107	575405	202.00 ug/L	99
46) Tetrachloroethene	15.20	166	914229	199.99 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.02	131	755965	207.25 ug/L	99
48) Chlorobenzene	16.13	112	2393108	199.20 ug/L	97
49) Ethylbenzene	16.38	91	4465000	201.54 ug/L	98
50) m,p-Xylenes	16.64	106	1550944	198.56 ug/L	99
51) Styrene	17.10	104	2561762	213.16 ug/L	99
52) o-Xylene	17.20	106	1517247	200.97 ug/L	100
55) Bromoform	16.82	173	364089	189.30 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.19	83	656346	164.64 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	155202	182.01 ug/L	98
58) Isopropylbenzene	17.70	105	3655213	171.73 ug/L	99
59) Bromobenzene	18.05	156	865850	180.23 ug/L	97
60) n-Propylbenzene	18.31	91	5305462	176.46 ug/L	99
61) 2-Chlorotoluene	18.45	91	3128722	180.76 ug/L	99
62) 4-Chlorotoluene	18.56	91	3203621	185.25 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	3485140	192.28 ug/L	99
64) tert-Butylbenzene	19.09	119	2997423	192.66 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	3435108	186.05 ug/L	97
66) sec-Butylbenzene	19.39	105	5038432	190.46 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	1885851	191.15 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	1902798	192.79 ug/L	99
69) p-Isopropyltoluene	19.61	119	4021709	195.79 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	1645465	197.15 ug/L	100
71) n-Butylbenzene	20.12	91	4374192	192.47 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	102361	195.71 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	1107731	186.75 ug/L	98
74) Naphthalene	22.63	128	1413680	187.19 ug/L	100
75) Hexachlorobutadiene	22.69	225	688401	212.10 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	830638	168.55 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171114.D 031411.M Thu Mar 17 14:03:09 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



NEW8260-CCV

Data File Name	03171115.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031711\
Operator	LC
Date Acquired	3/17/2011 1:50
Acq. Method File	8260B
Sample Name	SS
Instrument Name	GCMS7

Internal Standard	**Target Response**	**CCV Response**	**Low**	**High**	**T/F**
Pentafluorobenzene	204788	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	354603	291205	145602.5	582410	TRUE
Chlorobenzene-d5	296499	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	131216	112264	56132	224528	TRUE

Name	**Amount**	**Spike Amount**	**% REC**	**Low**	**High**	**T/F**	
Dichlorodifluoromethane	21.34	25.00	85.36	60	150	TRUE	
Chloromethane	20.19	25.00	80.77	60	140	TRUE	
Vinyl chloride	21.98	25.00	87.90	80	120	TRUE	CCC
Bromomethane	21.20	25.00	84.79	70	140	TRUE	
Chloroethane	21.91	25.00	87.64	70	130	TRUE	
Trichlorofluoromethane	25.44	25.00	101.76	70	150	TRUE	
Acetone	32.58	25.00	130.32	10	150	TRUE	
Iodomethane	30.91	25.00	123.66	70	140	TRUE	
1,1-Dichloroethene	24.98	25.00	99.91	80	120	TRUE	CCC
Methylene chloride	24.09	25.00	96.37	70	120	TRUE	
Freon 113	24.00	25.00	95.98	60	140	TRUE	
Carbon disulfide	25.08	25.00	100.31	70	130	TRUE	
trans-1,2-Dichloroethene	21.70	25.00	86.79	80	120	TRUE	
MTBE	20.73	25.00	82.90	70	130	TRUE	
1,1-Dichloroethane	20.79	25.00	83.16	70	125	TRUE	
Vinyl acetate	26.90	25.00	107.60	40	150	TRUE	
2-Butanone (MEK)	24.92	25.00	99.67	40	150	TRUE	
cis-1,2-Dichloroethene	20.20	25.00	80.78	80	120	TRUE	
Bromochloromethane	21.09	25.00	84.35	80	120	TRUE	
Chloroform	20.32	25.00	81.28	80	120	TRUE	CCC
2,2-Dichloropropane	21.15	25.00	84.60	80	130	TRUE	
Dibromofluoromethane	**21.57**	**25.00**	**86.27**	**80**	**120**	TRUE	
1,2-Dichloroethane	20.57	25.00	82.26	75	130	TRUE	
1,1,1-Trichloroethane	21.81	25.00	87.23	80	120	TRUE	
1,1-Dichloropropene	22.05	25.00	88.19	80	120	TRUE	
Carbon tetrachloride	22.49	25.00	89.96	80	130	TRUE	
Benzene	21.24	25.00	84.94	80	120	TRUE	
Dibromomethane	22.05	25.00	88.19	80	120	TRUE	
1,2-Dichloropropane	21.44	25.00	85.74	80	120	TRUE	CCC
Trichloroethene	21.49	25.00	85.98	80	120	TRUE	
Bromodichloromethane	21.49	25.00	85.95	80	120	TRUE	
2-Chlorovinylethylether	33.03	25.00	132.10	70	135	TRUE	
cis-1,3-Dichloropropene	21.67	25.00	86.67	80	120	TRUE	
4-Methyl-2-pentanone (MIB	23.62	25.00	94.48	60	130	TRUE	
trans-1,3-Dichloropropene	22.74	25.00	90.94	80	125	TRUE	

3/18/11
LC 03/18/11

1,1,2-Trichloroethane	22.20	25.00	88.81	80	120	TRUE	
Toluene-d8	**21.91**	**25.00**	**87.66**	**80**	**120**	TRUE	
Toluene	21.78	25.00	87.14	80	120	TRUE	CCC
1,3-Dichloropropane	21.05	25.00	84.20	80	120	TRUE	
2-Hexanone	25.08	25.00	100.33	20	150	TRUE	
Dibromochloromethane	21.71	25.00	86.84	80	120	TRUE	
1,2-Dibromoethane	22.31	25.00	89.25	80	120	TRUE	
Tetrachloroethene	22.09	25.00	88.37	70	130	TRUE	
1,1,1,2-Tetrachloroethane	21.46	25.00	85.82	80	120	TRUE	
Chlorobenzene	21.76	25.00	87.05	80	120	TRUE	
Ethylbenzene	21.51	25.00	86.06	80	120	TRUE	CCC
m,p-Xylenes	21.31	25.00	85.25	60	140	TRUE	
Styrene	23.00	25.00	92.00	80	120	TRUE	
o-Xylene	20.70	25.00	82.81	80	120	TRUE	
4-Bromofluorobenzene	**20.94**	**25.00**	**83.76**	**80**	**120**	TRUE	
Bromoform	24.45	25.00	97.79	80	120	TRUE	
1,1,2,2-Tetrachloroethane	23.28	25.00	93.12	80	120	TRUE	
1,2,3-Trichloropropane	23.38	25.00	93.50	70	130	TRUE	
Isopropylbenzene	25.73	25.00	102.90	80	130	TRUE	
Bromobenzene	24.00	25.00	96.00	80	120	TRUE	
n-Propylbenzene	24.01	25.00	96.04	75	130	TRUE	
2-Chlorotoluene	22.31	25.00	89.23	80	120	TRUE	
4-Chlorotoluene	23.19	25.00	92.75	80	120	TRUE	
1,3,5-Trimethylbenzene	23.39	25.00	93.56	80	130	TRUE	
tert-Butylbenzene	23.30	25.00	93.19	80	120	TRUE	
1,2,4-Trimethylbenzene	23.52	25.00	94.06	80	120	TRUE	
sec-Butylbenzene	22.94	25.00	91.76	80	125	TRUE	
1,3-Dichlorobenzene	22.83	25.00	91.30	80	120	TRUE	
1,4-Dichlorobenzene	22.81	25.00	91.26	80	120	TRUE	
p-Isopropyltoluene	23.58	25.00	94.31	80	130	TRUE	
1,2-Dichlorobenzene	22.83	25.00	91.31	80	120	TRUE	
n-Butylbenzene	23.80	25.00	95.22	80	130	TRUE	
1,2-Dibromo-3-chloropropa	24.52	25.00	98.10	50	150	TRUE	
1,2,4-Trichlorobenzene	25.88	25.00	103.53	50	150	TRUE	
Naphthalene	30.38	25.00	121.52	40	150	TRUE	
Hexachlorobutadiene	24.16	25.00	96.62	40	150	TRUE	
1,2,3-Trichlorobenzene	25.60	25.00	102.42	60	140	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	204788	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	354603	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	296499	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131216	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	111142	21.57 ug/L	0.00
Spiked Amount 25.000			Recovery =	86.28%	
39) Toluene-d8	14.12	98	391936	21.91 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.64%	
53) 4-Bromofluorobenzene	17.75	95	136070	20.94 ug/L	0.00
Spiked Amount 25.000			Recovery =	83.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.61	85	206452	21.34 ug/L	99
3) Chloromethane	4.90	50	322987	20.19 ug/L	98
4) Vinyl chloride	5.19	62	312968	21.98 ug/L	100
5) Bromomethane	5.78	94	156914	21.20 ug/L	98
6) Chloroethane	5.99	64	165417	21.91 ug/L	99
7) Trichlorofluoromethane	6.79	101	251907	25.44 ug/L	99
8) Acetone	6.94	43	38773	32.58 ug/L	98
9) Iodomethane	7.58	142	141683	30.91 ug/L	98
10) 1,1-Dichloroethene	7.52	96	144273	24.98 ug/L	98
11) Methylene chloride	7.72	84	163712	24.09 ug/L	99
12) Freon 113	7.78	101	164091	24.00 ug/L	99
13) Carbon disulfide	8.04	76	515335	25.08 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	138660	21.70 ug/L	94
15) MTBE	8.75	73	226347	20.73 ug/L	99
16) 1,1-Dichloroethane	8.92	63	277166	20.79 ug/L	99
17) Vinyl acetate	9.08	43	278544	26.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7971	24.92 ug/L	55
19) cis-1,2-Dichloroethene	9.67	96	133655	20.20 ug/L	99
20) Bromochloromethane	9.88	128	51073	21.09 ug/L	97
21) Chloroform	9.94	83	223530	20.32 ug/L	99
22) 2,2-Dichloropropane	10.04	77	188645	21.15 ug/L	97
24) 1,2-Dichloroethane	10.78	62	138066	20.57 ug/L	100
25) 1,1,1-Trichloroethane	10.92	97	172274	21.81 ug/L	97
27) 1,1-Dichloropropene	11.15	75	200126	22.05 ug/L	99
28) Carbon tetrachloride	11.39	117	140957	22.49 ug/L	99
29) Benzene	11.44	78	515367	21.24 ug/L	100
30) Dibromomethane	12.18	93	63306	22.05 ug/L	98
31) 1,2-Dichloropropane	12.22	63	145297	21.44 ug/L	100
32) Trichloroethene	12.27	95	130435	21.49 ug/L	100
33) Bromodichloromethane	12.34	83	153079	21.49 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	40803	33.03 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	187370	21.67 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	83668	23.62 ug/L	99
37) trans-1,3-Dichloropropene	13.74	75	151736	22.74 ug/L	100
38) 1,1,2-Trichloroethane	13.96	83	71241	22.20 ug/L	98
40) Toluene	14.22	92	300558	21.78 ug/L	97
42) 1,3-Dichloropropane	14.27	76	141234	21.05 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171115.D 031711.M Thu Mar 17 14:48:24 2011

MP 3/18/11
03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

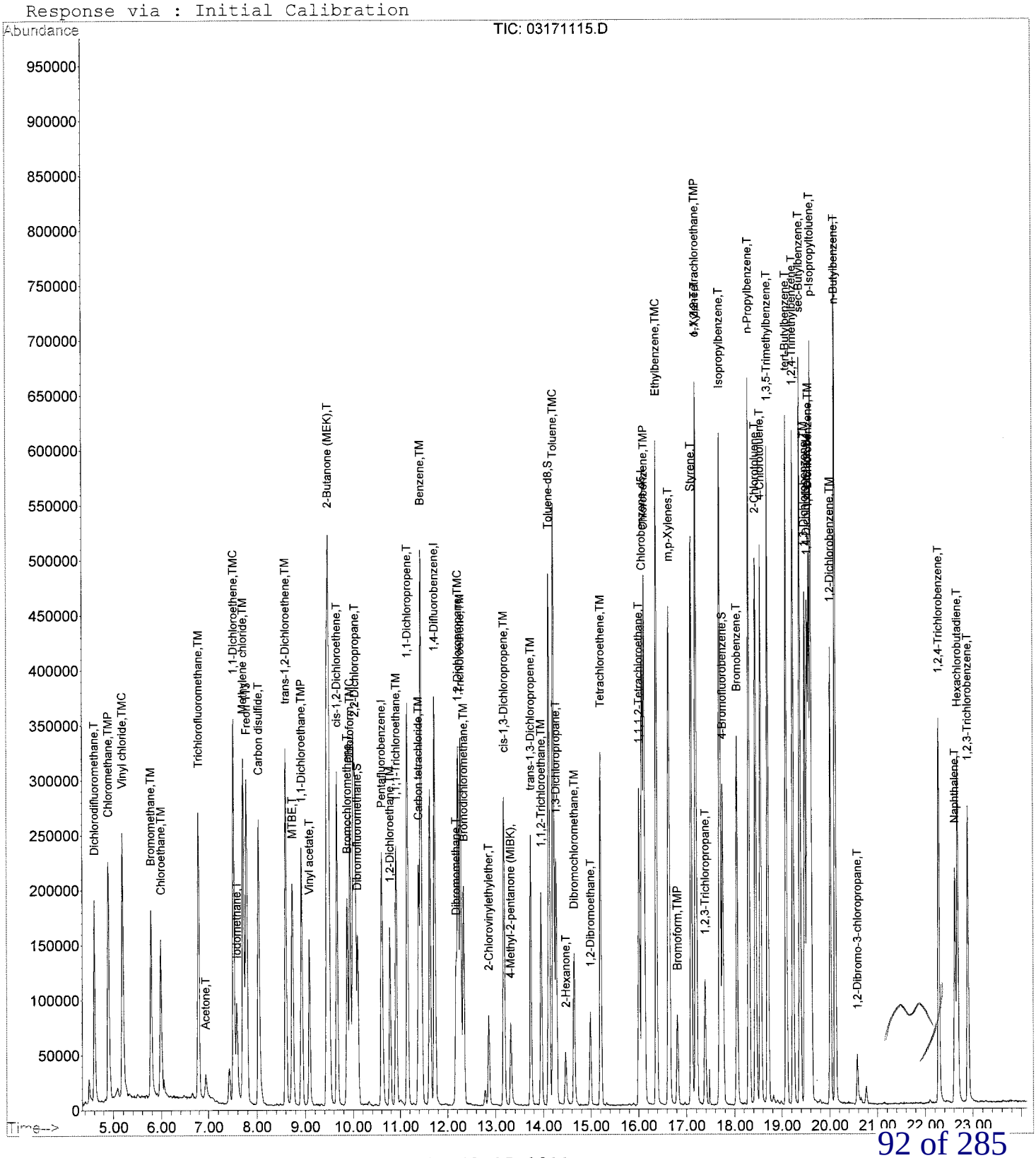
Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	56108	25.08 ug/L #	94
44) Dibromochloromethane	14.65	129	87587	21.71 ug/L	95
45) 1,2-Dibromoethane	14.99	107	75157	22.31 ug/L	99
46) Tetrachloroethene	15.21	166	117481	22.09 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	94210	21.46 ug/L	97
48) Chlorobenzene	16.12	112	303242	21.76 ug/L	99
49) Ethylbenzene	16.38	91	564816	21.51 ug/L	100
50) m,p-Xylenes	16.65	106	195974	21.31 ug/L	98
51) Styrene	17.10	104	320734	23.00 ug/L	98
52) o-Xylene	17.19	106	185035	20.70 ug/L	99
55) Bromoform	16.81	173	46447	24.45 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.19	83	89438	23.28 ug/L	100
57) 1,2,3-Trichloropropane	17.39	110	19539	23.38 ug/L	94
58) Isopropylbenzene	17.70	105	516912	25.73 ug/L	100
59) Bromobenzene	18.06	156	111249	24.00 ug/L	99
60) n-Propylbenzene	18.31	91	688724	24.01 ug/L	100
61) 2-Chlorotoluene	18.45	91	374880	22.31 ug/L	100
62) 4-Chlorotoluene	18.55	91	386272	23.19 ug/L	98
63) 1,3,5-Trimethylbenzene	18.71	105	406096	23.39 ug/L	100
64) tert-Butylbenzene	19.10	119	344368	23.30 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	410391	23.52 ug/L	99
66) sec-Butylbenzene	19.38	105	581187	22.94 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	215599	22.83 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	216972	22.81 ug/L	99
69) p-Isopropyltoluene	19.61	119	456572	23.58 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	187538	22.83 ug/L	99
71) n-Butylbenzene	20.12	91	513084	23.80 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	12556	24.52 ug/L	96
73) 1,2,4-Trichlorobenzene	22.29	180	137336	25.88 ug/L	99
74) Naphthalene	22.63	128	213772	30.38 ug/L	100
75) Hexachlorobutadiene	22.69	225	81857	24.16 ug/L	98
76) 1,2,3-Trichlorobenzene	22.90	180	110762	25.60 ug/L	99

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



8260AZ - Vapor Analysis
1 PPMV Tertiary Standard

3/17/2011

ppmv	Mol Wt.	ug/L
1	260.76	10.80

* Compound not in the standard mix

Conversion Calculation: ug/L=ppmv (MW*P)/(R*T)
R=Gas Constant(0.08206 l*atm/(mol*K)) MW=Molecular Weight
T=Temp in Degree K (21+273.15) P=Pressure in atm
Assume Temp in C of 21 (70 degrees F)

Compound	Molecular Weight	Expected Value (ug/L)	Actual Value (ug/L)	% Recovery
Dichlorodifluoromethane	120.91	5.01	6.05	121
Chloromethane	50.49	2.09	2.13	102
Vinyl Chloride	62.5	2.59	2.49	96
Bromomethane	94.94	3.93	1.91	49
Chloroethane	64.52	2.67	2.56	96
Trichlorofluoromethane	137.37	5.69	5.99	105
Acetone *				
Iodomethane *				
1,1-Dichloroethene	96.94	4.02	3.55	88
Methylene Chloride	84.93	3.52	3.35	95
Carbon Disulfide *				
trans-1,2-DCE *				
MTBE *				
1,1-Dichloroethane	98.96	4.10	3.37	82
Vinyl Acetate *				
2-Butanone *				
cis-1,2-DCE	96.94	4.02	3.41	85
Bromochloromethane *				
Chloroform	119.38	4.95	3.92	79
2,2-Dichloropropane *				
1,2-DCA	98.96	4.10	3.33	81
1,1,1-Trichloroethane	133.41	5.53	4.69	85
1,1-Dichloropropene *				
Carbon Tetrachloride	153.82	6.37	5.34	84
Benzene	78.11	3.24	2.68	83
Dibromomethane *				
1,2-Dichloropropane	112.99	4.68	3.9	83
Trichloroethene	131.39	5.44	4.59	84
Bromodichloromethane *				
2-CEVE *				
cis-1,3-Dichloropropene	110.97	4.60	3.55	77
4-Methyl-2-Pentanone *				
trans-1,3-Dichloropropene	110.97	4.60	3.53	77
1,1,2-Trichloroethane	133.41	5.53	4.56	82
Toluene	92.14	3.82	3.16	83
1,3-Dichloropropane *				

2-Hexanone *				
Dibromochloromethane *	187.86	7.78	6.53	84
1,2-Dibromoethane	165.83	6.87	5.59	81
Tetrachloroethene				
1,1,1,2-Tetrachloroethane *	112.56	4.66	3.59	77
Chlorobenzene	106.16	4.40	3.45	78
Ethylbenzene	212.36	8.80	6.85	78
m,p-Xylenes	104.16	4.31	3.37	78
Styrene	106.18	4.40	3.51	80
o-Xylene	133.41	5.53	5.91	107
1,1,2,2-Tetrachloroethane				
1,2,3-Trichloropropane *				
Isopropylbenzene *				
Bromobenzene *				
n-Propylbenzene *				
2-Chlorotoluene *				
4-Chlorotoluene *	120.19	4.98	4.09	82
1,3,5-Trimethylbenzene				
tert-butylbenzene *	120.19	4.98	4.11	83
1,2,4-Trimethylbenzene				
sec-butylbenzene *	147	6.09	4.85	80
1,3-Dichlorobenzene	147	6.09	4.73	78
1,4-Dichlorobenzene				
p-Isopropyltoluene *	147	6.09	5.01	82
1,2-Dichlorobenzene				
n-Butylbenzene *				
1,2-Dibromo-3-chloropropane *	181.46	7.52	5.44	72
1,2,4-Trichlorobenzene				
Naphthalene *	260.76	10.80	8.7	81
Hexachlorobutadiene				
1,2,3-Trichlorobenzene *				

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	201057	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.74	114	351105	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	292717	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	134120	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	108706	21.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.96%	
39) Toluene-d8	14.12	98	384321	21.70 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.80%	
53) 4-Bromofluorobenzene	17.76	95	132578	20.67 ug/L	0.00
Spiked Amount 25.000			Recovery	= 82.68%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	57530	6.06 ug/L	95
3) Chloromethane	4.90	50	33468	2.13 ug/L	98
4) Vinyl chloride	5.19	62	34821	2.49 ug/L	96
5) Bromomethane	5.78	94	12125	1.91 ug/L	94
6) Chloroethane	5.99	64	18973	2.56 ug/L	90
7) Trichlorofluoromethane	6.79	101	58222	5.99 ug/L	100
8) Acetone	6.94	43	1602	Below Cal #	85
9) Iodomethane	7.57	142	6053	1.47 ug/L	91
10) 1,1-Dichloroethene	7.52	96	20124	3.55 ug/L	97
11) Methylene chloride	7.72	84	22344	3.35 ug/L	90
12) Freon 113	7.78	101	41757	6.22 ug/L	97
13) Carbon disulfide	8.03	76	10613	0.53 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	558	0.09 ug/L #	60
15) MTBE	8.75	73	153	0.01 ug/L #	50
16) 1,1-Dichloroethane	8.93	63	44110	3.37 ug/L	99
17) Vinyl acetate	9.09	43	405	0.04 ug/L #	83
18) 2-Butanone (MEK)	9.66	72	117	1.25 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	22148	3.41 ug/L	96
20) Bromochloromethane	0.00	128	0	N.D.	
21) Chloroform	9.94	83	42350	3.92 ug/L	98
22) 2,2-Dichloropropane	0.00	77	0	N.D.	
24) 1,2-Dichloroethane	10.78	62	21923	3.33 ug/L	96
25) 1,1,1-Trichloroethane	10.92	97	36411	4.69 ug/L	98
27) 1,1-Dichloropropene	0.00	75	0	N.D.	
28) Carbon tetrachloride	11.40	117	33155	5.34 ug/L	97
29) Benzene	11.45	78	64449	2.68 ug/L	98
30) Dibromomethane	0.00	93	0	N.D.	
31) 1,2-Dichloropropane	12.22	63	26155	3.90 ug/L	99
32) Trichloroethene	12.28	95	27561	4.59 ug/L	97
33) Bromodichloromethane	12.29	83	154	0.02 ug/L #	25
34) 2-Chlorovinylethylether	0.00	63	0	N.D.	
35) cis-1,3-Dichloropropene	13.17	75	30363	3.55 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.33	43	274	0.08 ug/L #	50
37) trans-1,3-Dichloropropene	13.74	75	23347	3.53 ug/L	98
38) 1,1,2-Trichloroethane	13.96	83	14497	4.56 ug/L	99
40) Toluene	14.22	92	43103	3.16 ug/L	96
42) 1,3-Dichloropropane	14.21	76	285	0.04 ug/L #	44

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

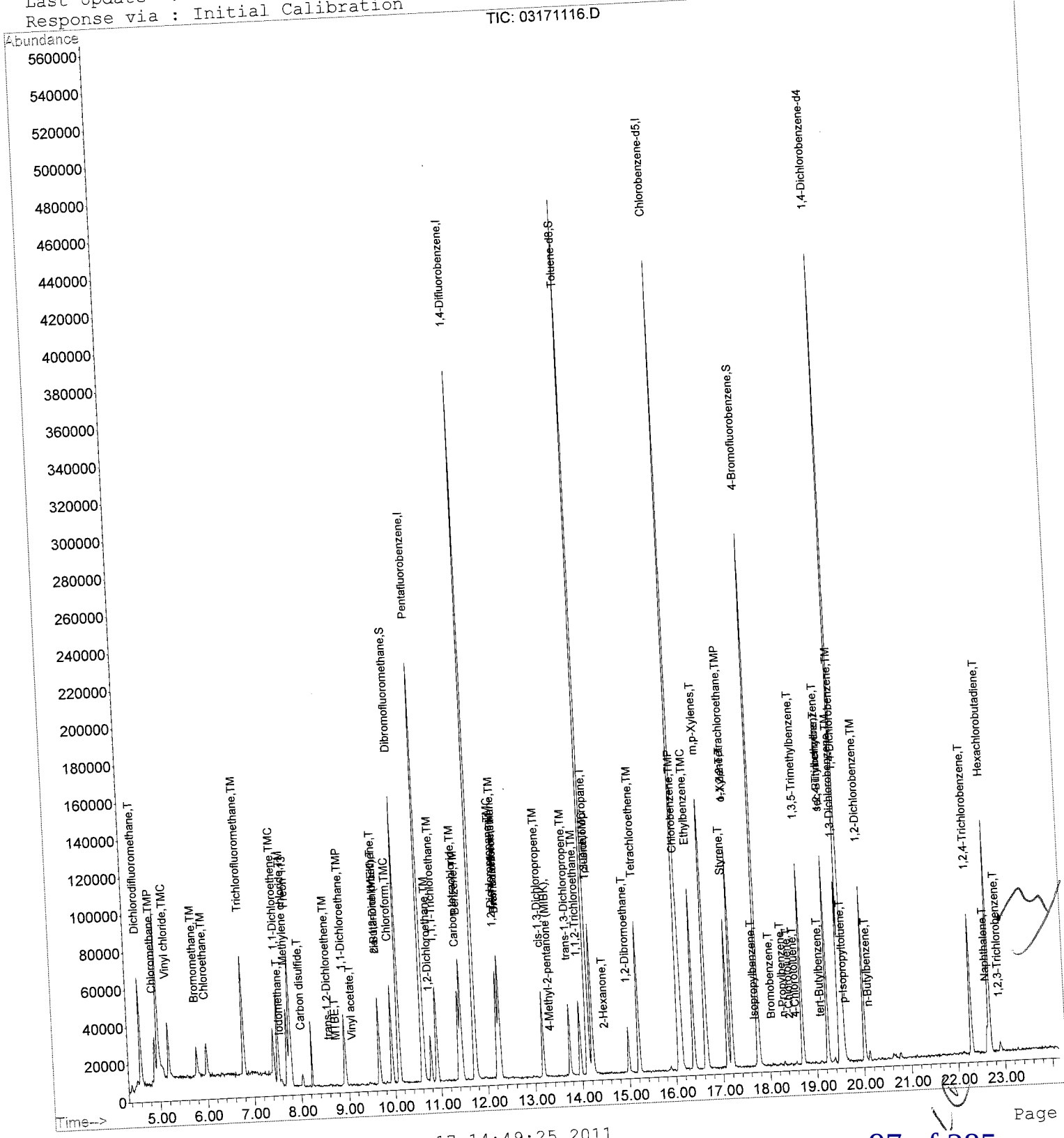
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	136	0.06 ug/L #	29
44) Dibromochloromethane	0.00	129	0	N.D.	
45) 1,2-Dibromoethane	14.99	107	21706	6.53 ug/L	99
46) Tetrachloroethene	15.21	166	29329	5.59 ug/L	99
47) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	
48) Chlorobenzene	16.12	112	49412	3.59 ug/L	98
49) Ethylbenzene	16.38	91	89509	3.45 ug/L	99
50) m,p-Xylenes	16.64	106	62191	6.85 ug/L	100
51) Styrene	17.10	104	46398	3.37 ug/L	97
52) o-Xylene	17.19	106	30948	3.51 ug/L	97
55) Bromoform	0.00	173	0	N.D.	
56) 1,1,2,2-Tetrachloroethane	17.19	83	23190	5.91 ug/L	95
57) 1,2,3-Trichloropropane	0.00	110	0	N.D.	
58) Isopropylbenzene	17.70	105	1070	0.05 ug/L #	51
59) Bromobenzene	18.06	156	141	0.03 ug/L #	43
60) n-Propylbenzene	18.32	91	1826	0.06 ug/L #	90
61) 2-Chlorotoluene	18.45	91	787	0.05 ug/L #	44
62) 4-Chlorotoluene	18.56	91	1213	0.07 ug/L #	65
63) 1,3,5-Trimethylbenzene	18.71	105	72087	4.06 ug/L	98
64) tert-Butylbenzene	19.09	119	908	0.06 ug/L #	76
65) 1,2,4-Trimethylbenzene	19.24	105	73403	4.11 ug/L	99
66) sec-Butylbenzene	19.24	105	73403	2.83 ug/L #	61
67) 1,3-Dichlorobenzene	19.49	146	46821	4.85 ug/L	100
68) 1,4-Dichlorobenzene	19.58	146	46004	4.73 ug/L	97
69) p-Isopropyltoluene	19.62	119	1222	0.06 ug/L #	89
70) 1,2-Dichlorobenzene	20.02	146	42108	5.01 ug/L	98
71) n-Butylbenzene	20.13	91	3423	0.16 ug/L	97
72) 1,2-Dibromo-3-chloropropan	0.00	157	0	N.D.	
73) 1,2,4-Trichlorobenzene	22.29	180	29509	5.44 ug/L	99
74) Naphthalene	22.63	128	15881	2.21 ug/L	100
75) Hexachlorobutadiene	22.69	225	30129	8.70 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	2346	0.53 ug/L	95

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D
Acq On : 17 Mar 2011 8:41 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011

Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re-Lab

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	22.71 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.84%	
39) Toluene-d8	14.11	98	374753	21.71 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.84%	
53) 4-Bromofluorobenzene	17.75	95	131653	21.33 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.32%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.12 ug/L LRL	98
5) Bromomethane	5.77	94	123	0.28 ug/L #	76
8) Acetone	6.93	43	3328	Below Cal #	67
13) Carbon disulfide	8.02	76	5282	0.27 ug/L	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	83
24) 1,2-Dichloroethane	10.60	62	1206	0.19 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.61 ug/L # WRT	68
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	29
74) Naphthalene	22.63	128	1667	0.24 ug/L	100

M 3/18/11

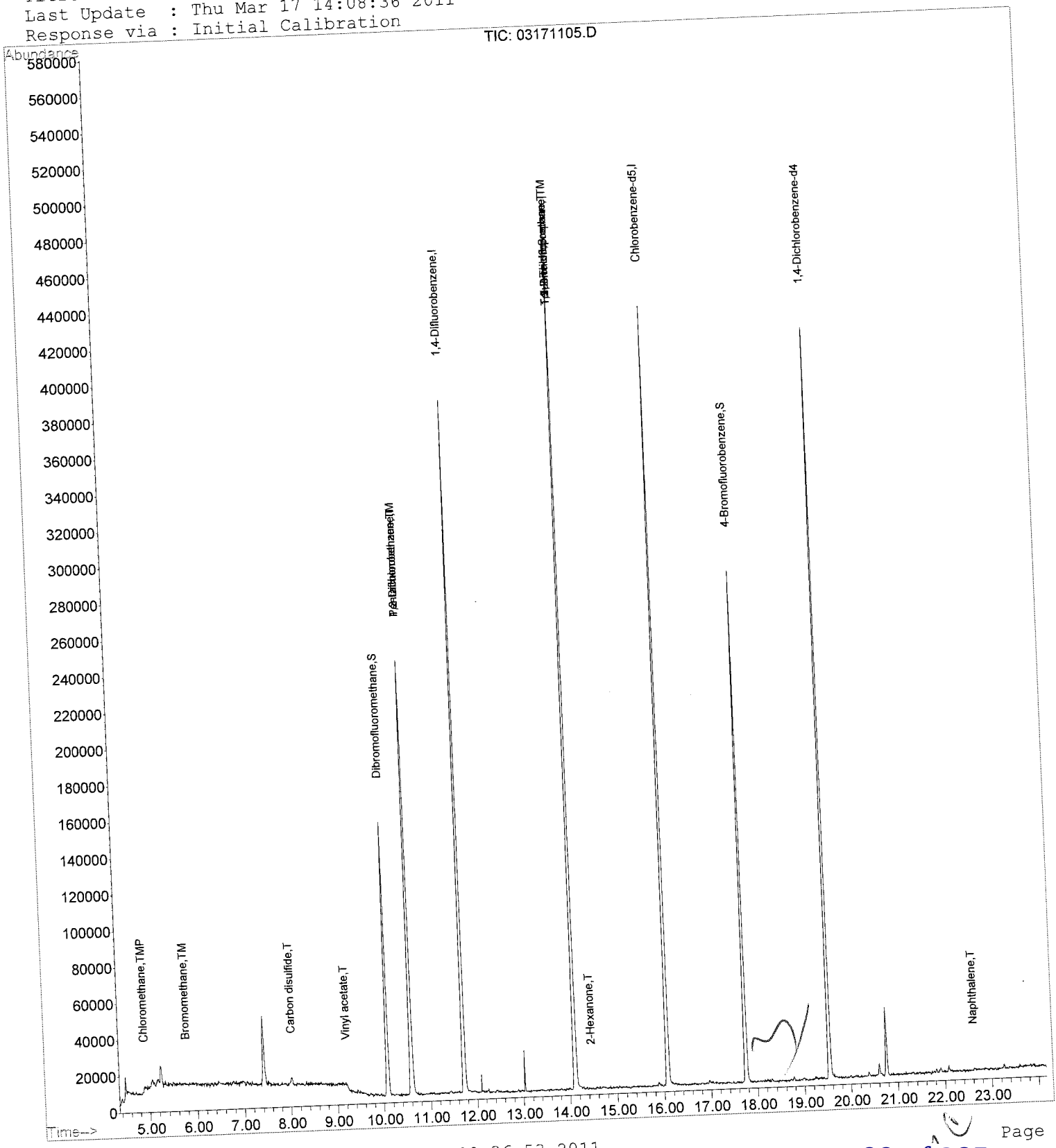
LC 03/18/11

(#) = qualifier out of range (m) = manual integration
03171105.D 031711.M Fri Mar 18 08:36:53 2011

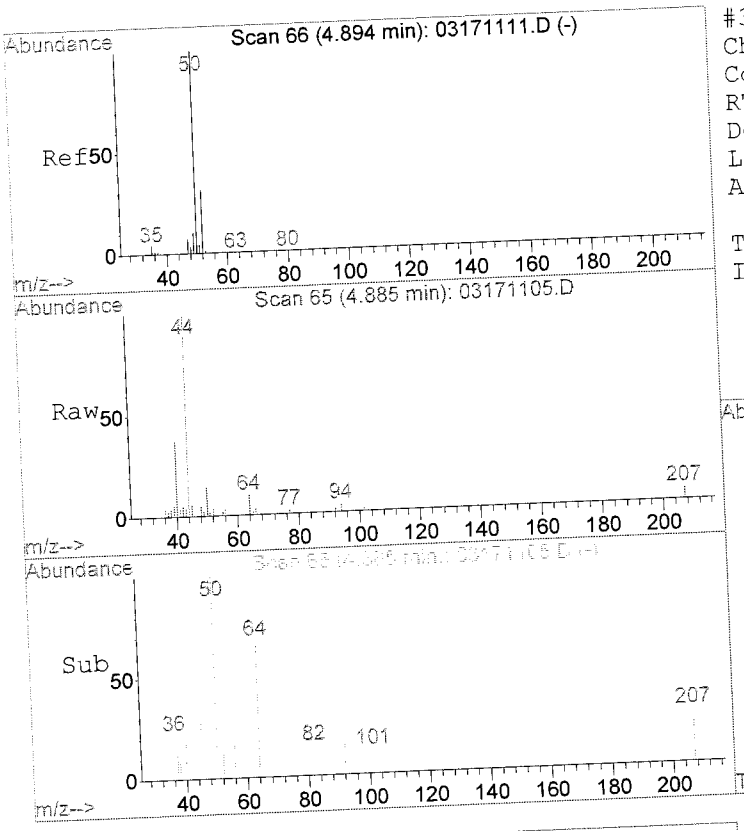
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



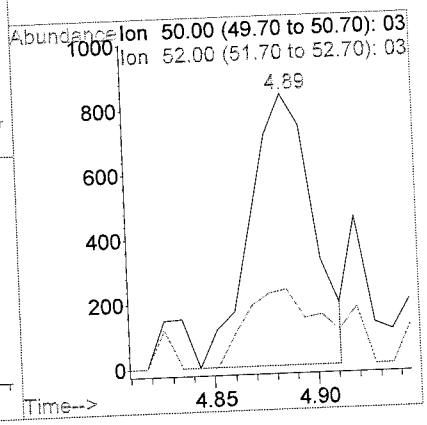
03171105.D 031711.M Fri Mar 18 08:36:53 2011

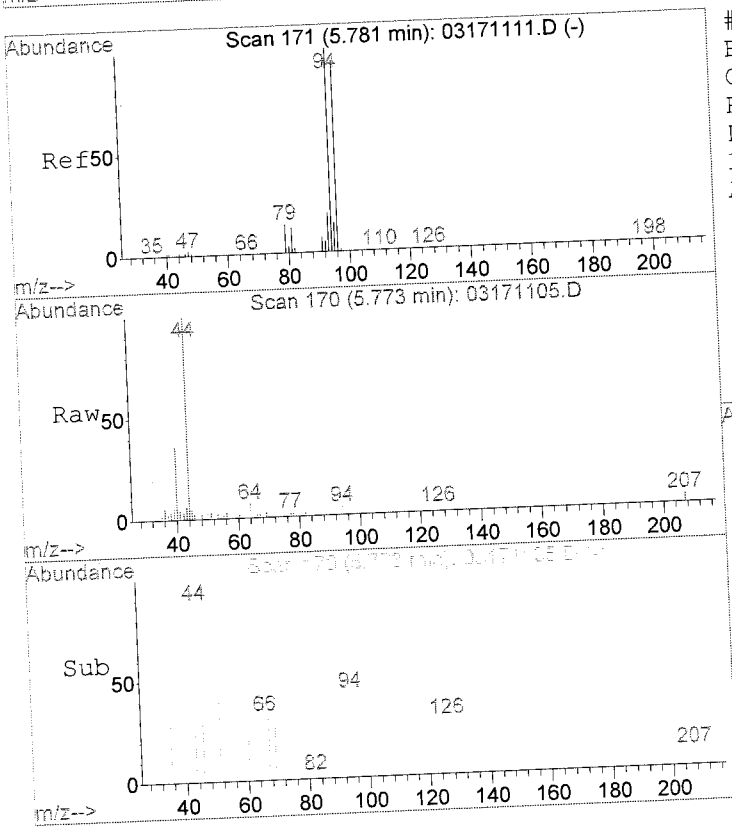


#3
Chloromethane
Concen: 0.12 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.1	37.7

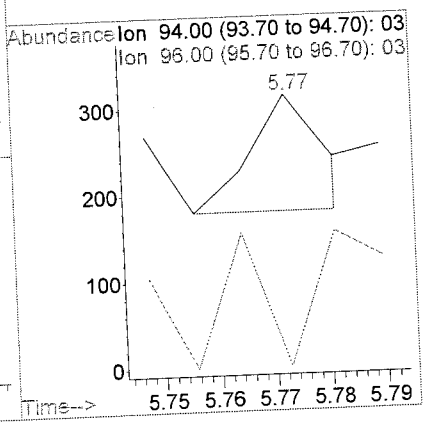


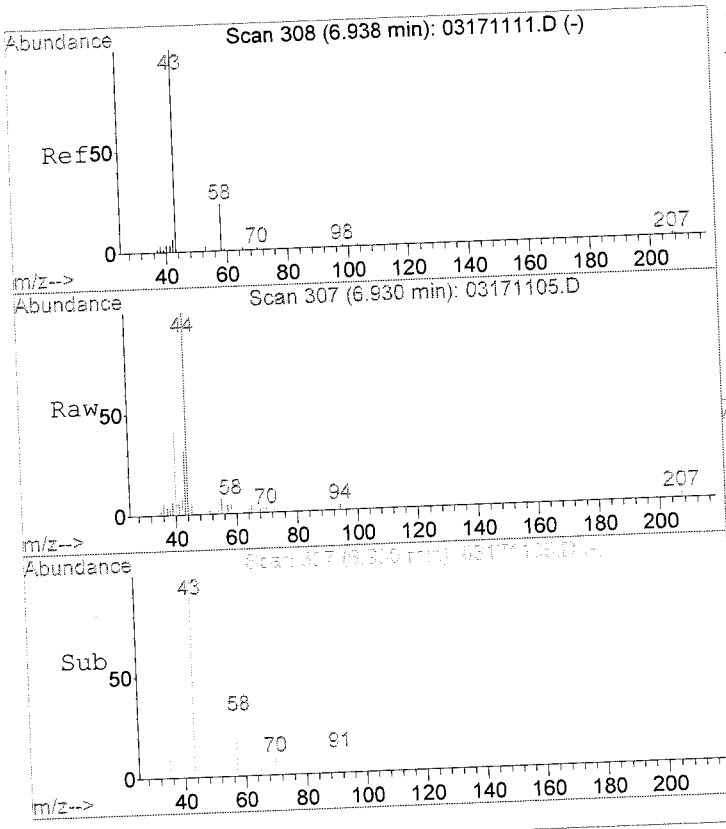


#5
Bromomethane
Concen: 0.28 ug/L
RT: 5.77 min Scan# 170
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 94 Resp: 123

Ion	Ratio	Lower	Upper
94	100		
96	115.4	74.0	111.0#

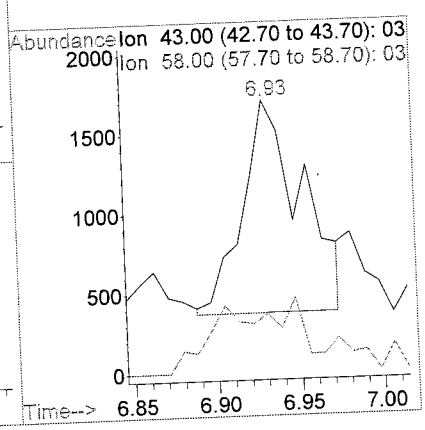


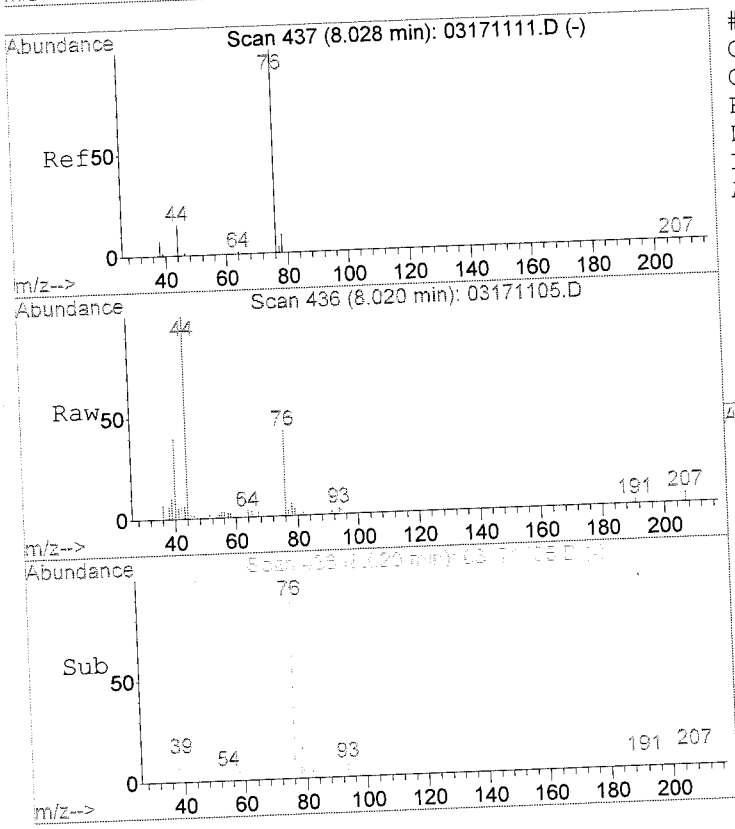


#8
Acetone
Concen: Below Cal
RT: 6.93 min Scan# 307
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

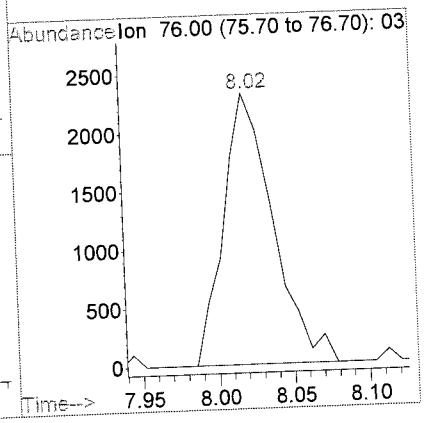
Ion	Ratio	Lower	Upper
43	100		
58	9.7	21.2	31.8#

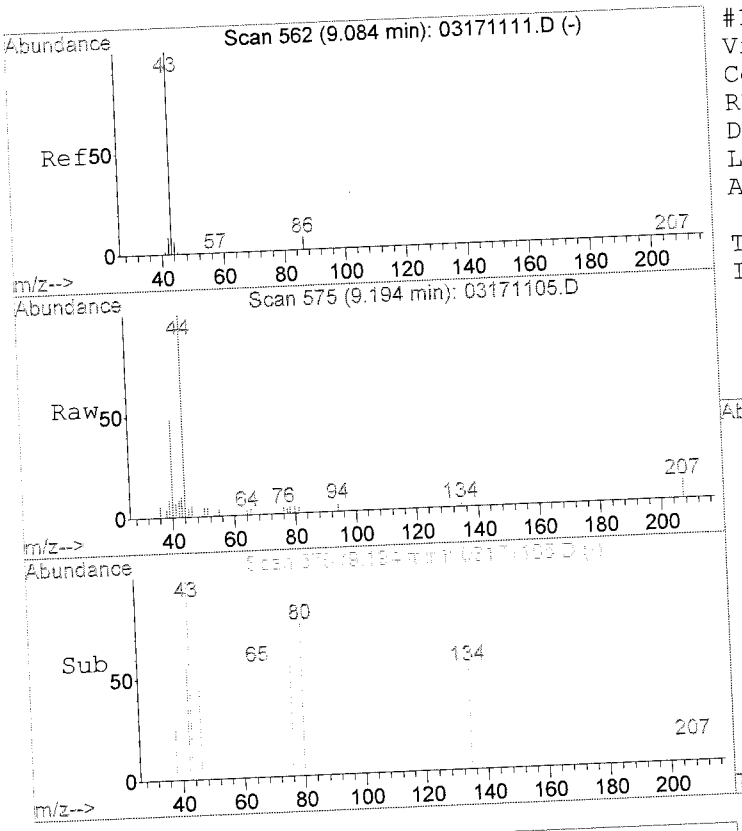




#13
Carbon disulfide
Concen: 0.27 ug/L
RT: 8.02 min Scan# 436
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 5282

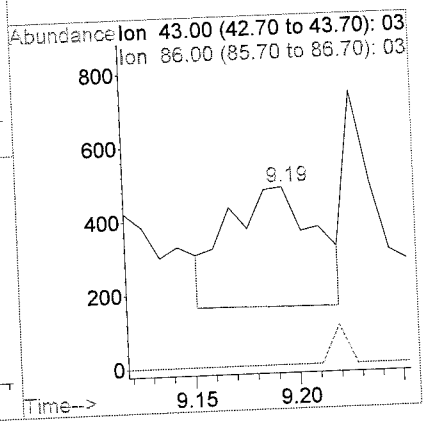


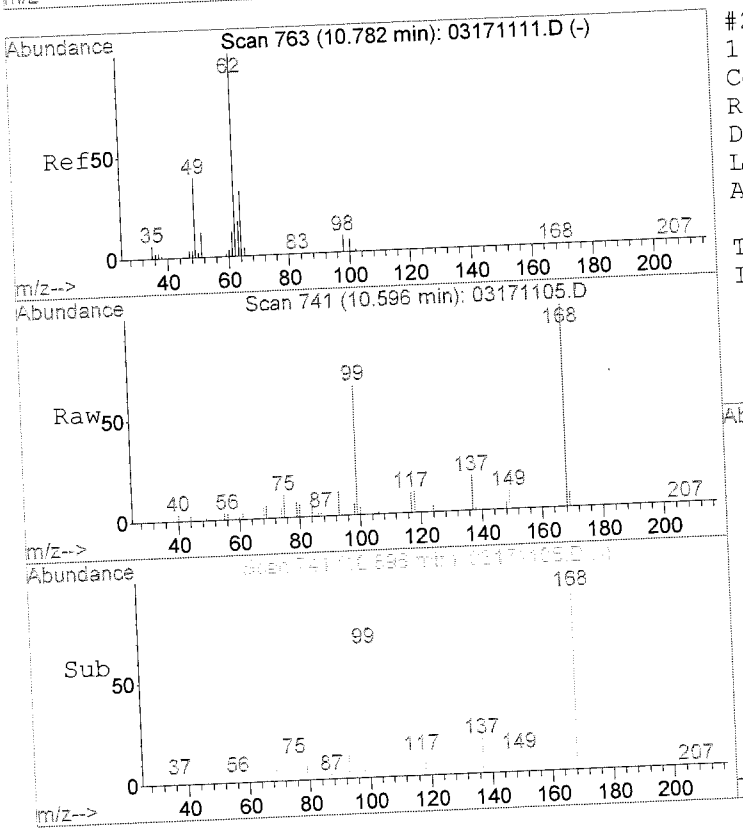


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#

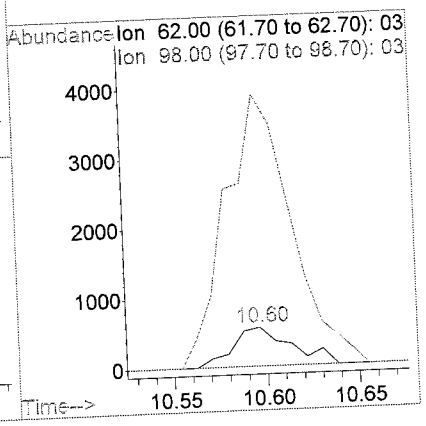


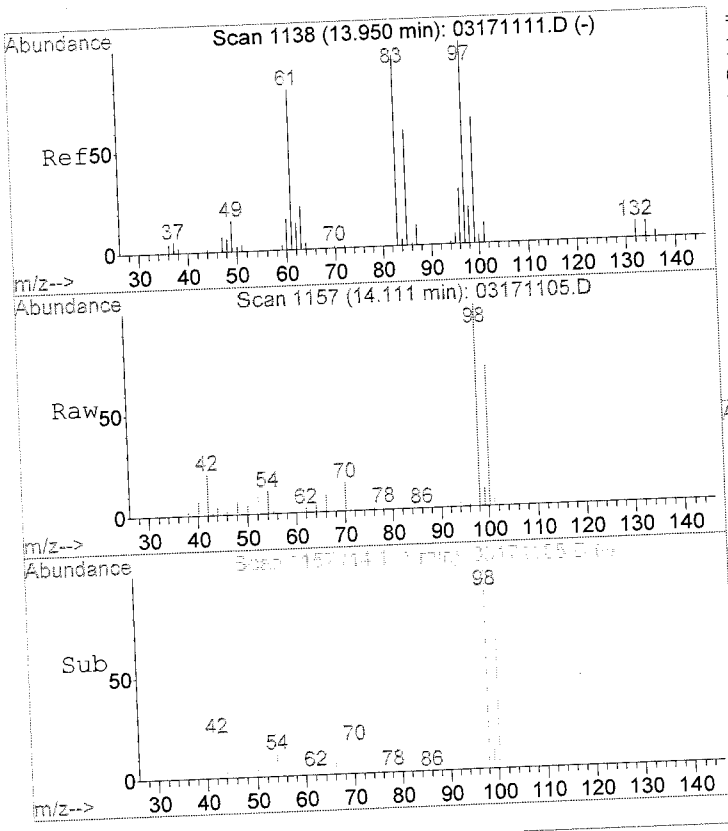


#24
1,2-Dichloroethane
Concen: 0.19 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	7.0	10.6#

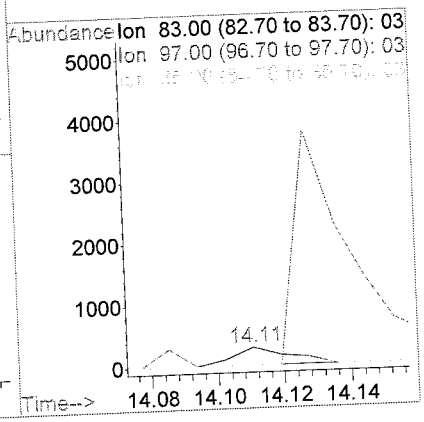


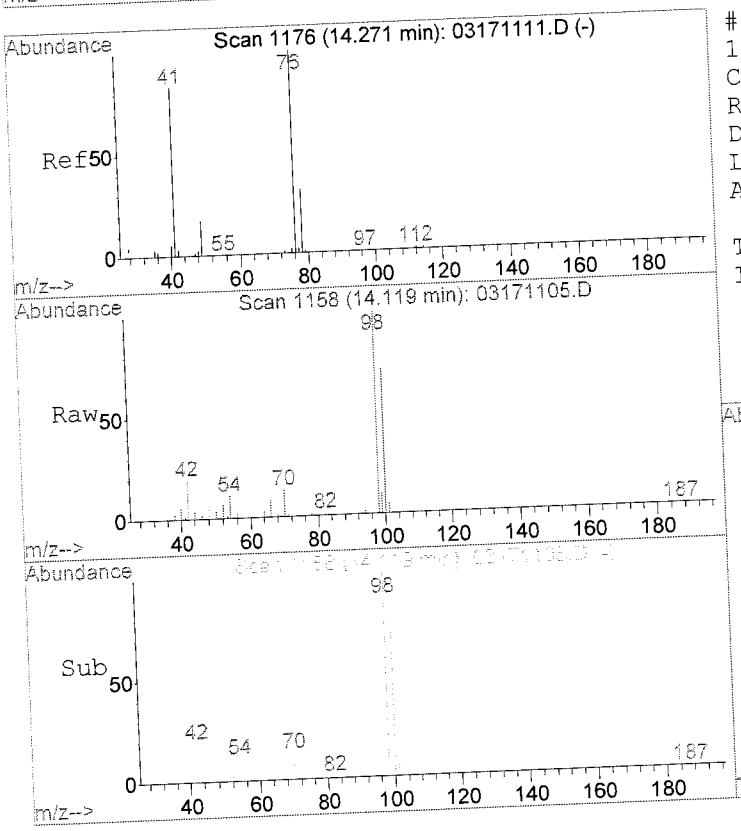


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	83.0	124.6#
85	0.0	51.3	76.9#

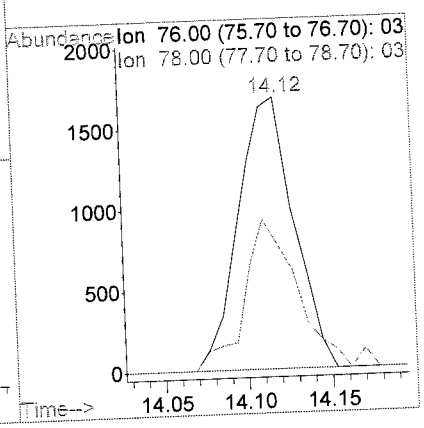


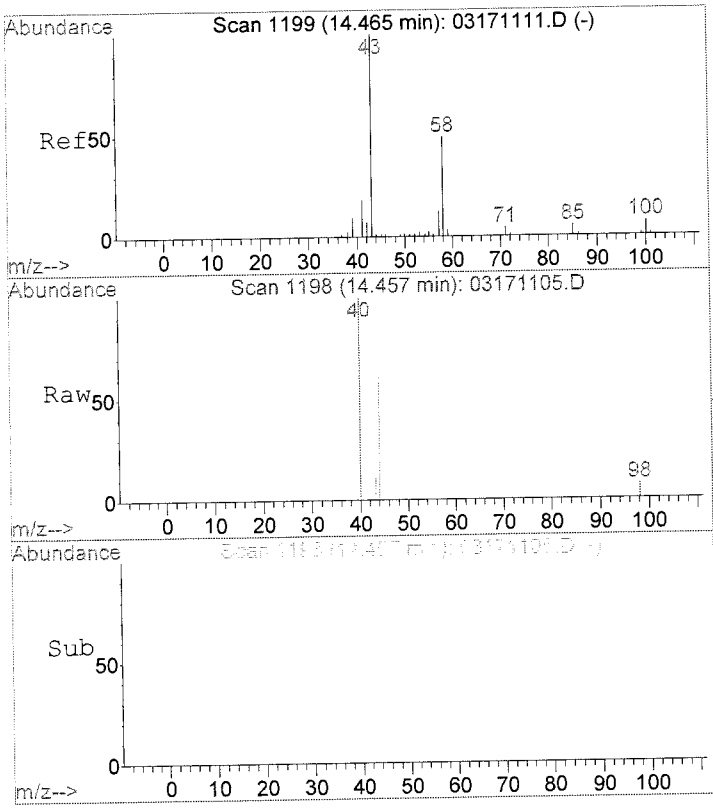


#42
1,3-Dichloropropane
Concen: 0.61 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.15 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	24.6	37.0#

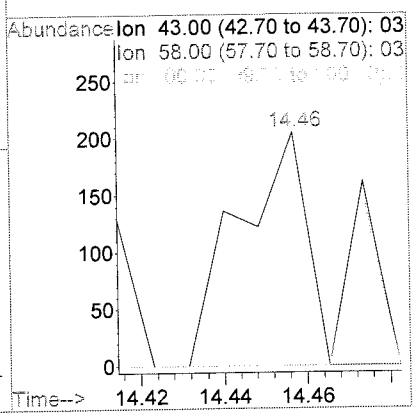


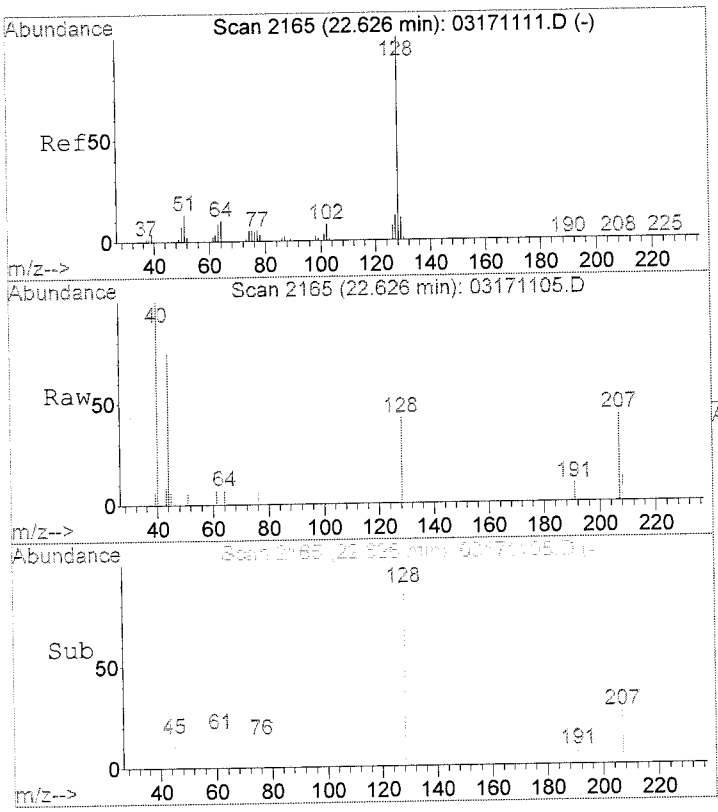


#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 235

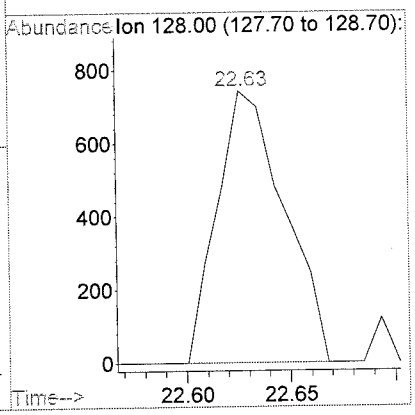
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.4#
100	0.0	0.0	0.0





#74
Naphthalene
Concen: 0.24 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion:128 Resp: 1667



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.36%	
39) Toluene-d8	14.12	98	8971	0.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.40%	
53) 4-Bromofluorobenzene	17.76	95	3244	0.61 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.44%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.54 ug/L #	90
3) Chloromethane	4.89	50	6587	0.50 ug/L	95
4) Vinyl chloride	5.18	62	6003	0.51 ug/L	90
5) Bromomethane	5.78	94	3084	0.76 ug/L	93
6) Chloroethane	5.97	64	3371	0.55 ug/L #	73
7) Trichlorofluoromethane	6.77	101	4364	0.54 ug/L	92
8) Acetone	6.93	43	1615	Below Cal #	66
9) Iodomethane	7.58	142	1272	0.47 ug/L	92
10) 1,1-Dichloroethene	7.50	96	2883	0.61 ug/L	93
11) Methylene chloride	7.70	84	3890	0.70 ug/L	97
12) Freon 113	7.77	101	3509	0.63 ug/L	92
13) Carbon disulfide	8.02	76	10027	0.60 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	92
15) MTBE	8.73	73	5033	0.56 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.54 ug/L	96
17) Vinyl acetate	9.08	43	4816	0.57 ug/L #	83
18) 2-Butanone (MEK)	9.46	72	199	1.62 ug/L #	34
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	90
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	93
21) Chloroform	9.93	83	4941	0.55 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.53 ug/L	100
24) 1,2-Dichloroethane	10.77	62	2927	0.53 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.51 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	95
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.54 ug/L	99
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	87
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L #	97
32) Trichloroethene	12.27	95	2709	0.53 ug/L	98
33) Bromodichloromethane	12.33	83	3018	0.50 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	Below Cal #	55
35) cis-1,3-Dichloropropene	13.18	75	3500	0.48 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	13.32	43	2046	0.69 ug/L #	82
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.51 ug/L	84
40) Toluene	14.21	92	6374	0.55 ug/L	96
42) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171106.D 031711.M Fri Mar 18 08:37:04 2011

3/4/11
03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D
Acq On : 17 Mar 2011 9:12 am
Sample : 0.5 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

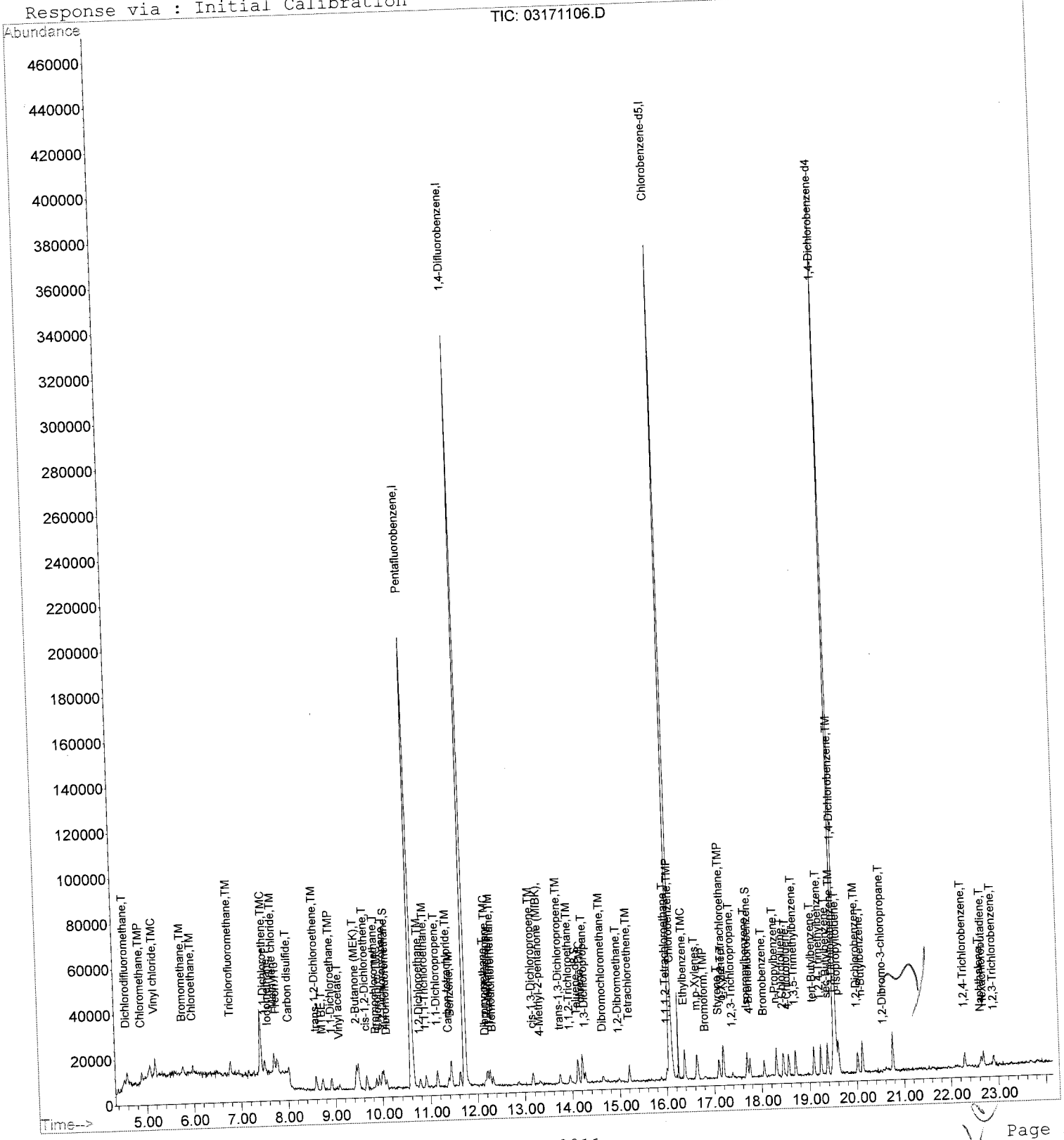
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Dibromochloromethane	14.65	129	2052	0.62 ug/L	85
45) 1,2-Dibromoethane	14.98	107	1293	0.47 ug/L #	78
46) Tetrachloroethene	15.21	166	2392	0.55 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.02	131	2040	0.57 ug/L #	53
48) Chlorobenzene	16.12	112	6227	0.54 ug/L	97
49) Ethylbenzene	16.38	91	11848	0.55 ug/L	94
50) m,p-Xylenes	16.64	106	4453	0.59 ug/L	95
51) Styrene	17.10	104	5086	0.44 ug/L #	78
52) o-Xylene	17.20	106	4214	0.57 ug/L	96
55) Bromoform	16.81	173	696	0.41 ug/L #	64
56) 1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L #	93
57) 1,2,3-Trichloropropane	17.38	110	276	0.37 ug/L #	62
58) Isopropylbenzene	17.70	105	9284	0.52 ug/L	99
59) Bromobenzene	18.05	156	1904	0.46 ug/L	83
60) n-Propylbenzene	18.31	91	13033	0.51 ug/L	97
61) 2-Chlorotoluene	18.45	91	8427	0.57 ug/L	93
62) 4-Chlorotoluene	18.56	91	8009	0.54 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	8073	0.53 ug/L	98
64) tert-Butylbenzene	19.09	119	6647	0.51 ug/L	96
65) 1,2,4-Trimethylbenzene	19.24	105	7949	0.52 ug/L	100
66) sec-Butylbenzene	19.38	105	11380	0.51 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L	94
68) 1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L #	87
69) p-Isopropyltoluene	19.61	119	8395	0.49 ug/L	94
70) 1,2-Dichlorobenzene	20.02	146	3885	0.54 ug/L	97
71) n-Butylbenzene	20.11	91	9466	0.50 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.57	157	71	0.16 ug/L #	14
73) 1,2,4-Trichlorobenzene	22.29	180	2133	0.46 ug/L	81
74) Naphthalene	22.63	128	4307	0.69 ug/L	100
75) Hexachlorobutadiene	22.69	225	1446	0.48 ug/L #	65
76) 1,2,3-Trichlorobenzene	22.90	180	1936	0.51 ug/L	87

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	0.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.76%	
39) Toluene-d8	14.12	98	14880	1.01 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.04%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.96 ug/L	94
3) Chloromethane	4.89	50	11297	0.88 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.03 ug/L #	84
5) Bromomethane	5.77	94	5200	1.12 ug/L	94
6) Chloroethane	5.98	64	6815	1.13 ug/L #	88
7) Trichlorofluoromethane	6.77	101	8152	1.03 ug/L	91
8) Acetone	6.93	43	2180	Below Cal	96
9) Iodomethane	7.57	142	3864	1.18 ug/L #	86
10) 1,1-Dichloroethene	7.51	96	5486	1.19 ug/L	97
11) Methylene chloride	7.70	84	6767	1.24 ug/L	92
12) Freon 113	7.78	101	6284	1.15 ug/L	98
13) Carbon disulfide	8.02	76	17829	1.08 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.19 ug/L	85
15) MTBE	8.73	73	10605	1.21 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.15 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.19 ug/L #	93
18) 2-Butanone (MEK)	9.48	72	190	1.60 ug/L #	1
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	97
21) Chloroform	9.93	83	8465	0.96 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.98 ug/L #	90
24) 1,2-Dichloroethane	10.78	62	5936	1.10 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.97 ug/L #	56
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	93
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.02 ug/L	97
30) Dibromomethane	12.17	93	2529	1.07 ug/L	94
31) 1,2-Dichloropropane	12.21	63	5383	0.96 ug/L #	90
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.96 ug/L #	87
34) 2-Chlorovinylethylether	12.86	63	1739	0.28 ug/L #	80
35) cis-1,3-Dichloropropene	13.18	75	6952	0.98 ug/L	90
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.19 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.99 ug/L #	84
40) Toluene	14.22	92	10459	0.92 ug/L	93
42) 1,3-Dichloropropane	14.27	76	5543	1.01 ug/L #	75

(#) = qualifier out of range (m) = manual integration
03171107.D 031711.M Fri Mar 18 08:37:19 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2515	1.37 ug/L #	71
44) Dibromochloromethane	14.65	129	2863	0.86 ug/L	97
45) 1,2-Dibromoethane	14.98	107	2446	0.88 ug/L #	77
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L	94
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.00 ug/L #	59
48) Chlorobenzene	16.12	112	10976	0.96 ug/L	93
49) Ethylbenzene	16.38	91	20598	0.96 ug/L	98
50) m,p-Xylenes	16.64	106	6910	0.92 ug/L	93
51) Styrene	17.10	104	10355	0.90 ug/L	99
52) o-Xylene	17.20	106	7210	0.98 ug/L	87
55) Bromoform	16.81	173	1545	0.94 ug/L #	76
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L #	91
57) 1,2,3-Trichloropropane	17.38	110	807	1.12 ug/L	98
58) Isopropylbenzene	17.70	105	16311	0.94 ug/L	99
59) Bromobenzene	18.05	156	3839	0.96 ug/L	97
60) n-Propylbenzene	18.30	91	23854	0.97 ug/L	100
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L	96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L	96
64) tert-Butylbenzene	19.09	119	12127	0.95 ug/L	97
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.97 ug/L	99
66) sec-Butylbenzene	19.38	105	21187	0.97 ug/L	98
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L	93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L	97
69) p-Isopropyltoluene	19.61	119	15312	0.92 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	6687	0.94 ug/L	99
71) n-Butylbenzene	20.11	91	17346	0.93 ug/L	96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.89 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	4683	1.02 ug/L	95
74) Naphthalene	22.63	128	5978	0.99 ug/L	100
75) Hexachlorobutadiene	22.68	225	2850	0.98 ug/L	89
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.93 ug/L	93

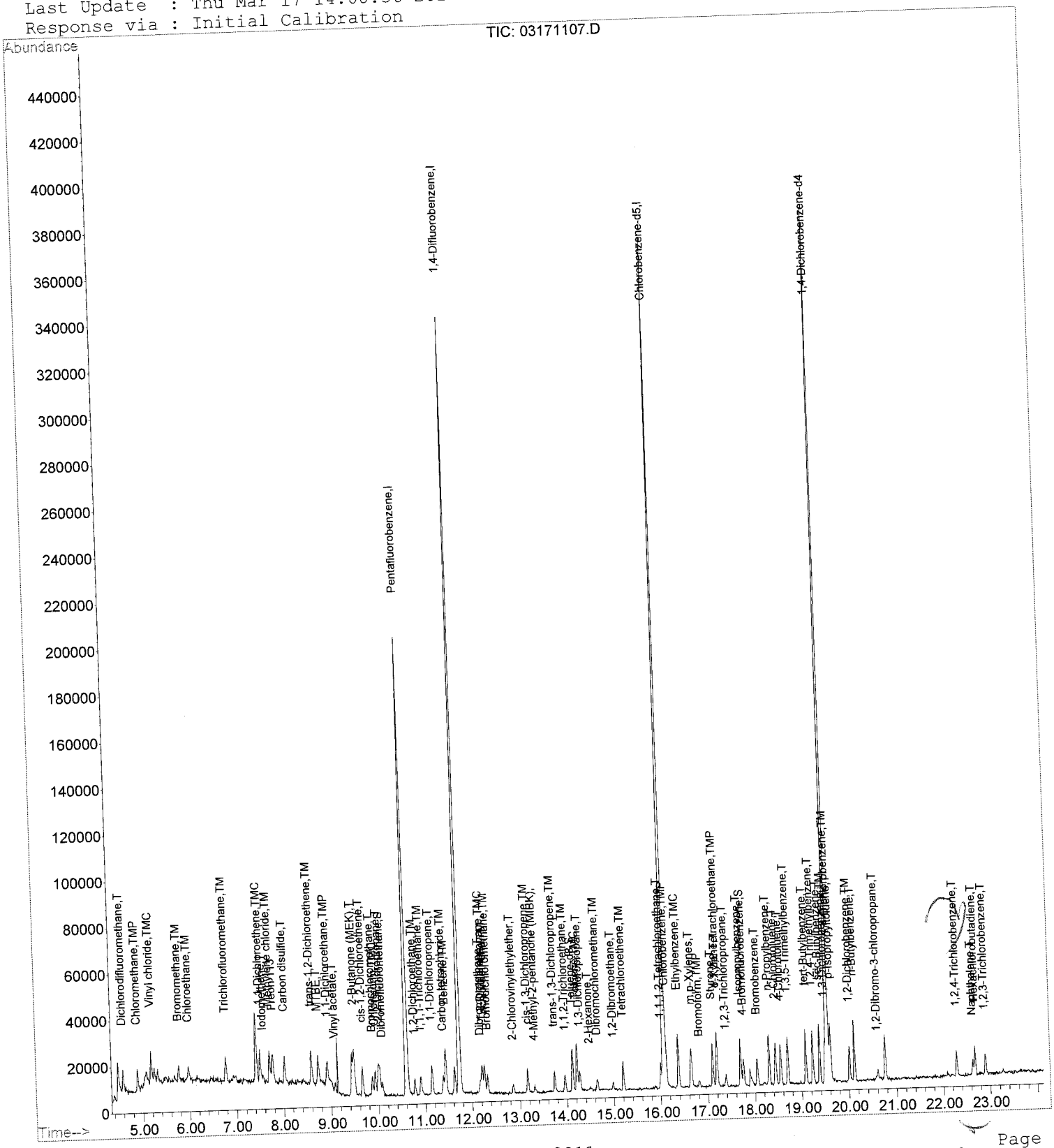
M/

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.40%	
39) Toluene-d8	14.12	98	28802	1.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.72%	
53) 4-Bromofluorobenzene	17.75	95	10411	1.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.99 ug/L	96
3) Chloromethane	4.89	50	22795	1.75 ug/L	97
4) Vinyl chloride	5.18	62	22297	1.92 ug/L	95
5) Bromomethane	5.77	94	6970	1.40 ug/L	99
6) Chloroethane	5.98	64	11754	1.91 ug/L #	83
7) Trichlorofluoromethane	6.78	101	16143	2.00 ug/L	99
8) Acetone	6.94	43	4997	1.82 ug/L	99
9) Iodomethane	7.57	142	5343	1.55 ug/L	93
10) 1,1-Dichloroethene	7.51	96	8308	1.76 ug/L	96
11) Methylene chloride	7.71	84	10726	1.93 ug/L	98
12) Freon 113	7.77	101	10221	1.83 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.80 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.83 ug/L	97
15) MTBE	8.73	73	16615	1.86 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.89 ug/L	98
17) Vinyl acetate	9.08	43	14566	1.72 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	1.55 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.02 ug/L	92
20) Bromochloromethane	9.88	128	3627	1.84 ug/L	95
21) Chloroform	9.93	83	18162	2.02 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.93 ug/L	98
24) 1,2-Dichloroethane	10.78	62	10721	1.96 ug/L #	93
25) 1,1,1-Trichloroethane	10.91	97	12034	1.87 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	98
28) Carbon tetrachloride	11.38	117	9830	1.88 ug/L	94
29) Benzene	11.44	78	39494	1.95 ug/L	100
30) Dibromomethane	12.17	93	4597	1.92 ug/L	92
31) 1,2-Dichloropropane	12.22	63	10960	1.93 ug/L #	96
32) Trichloroethene	12.27	95	9761	1.92 ug/L	96
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.16 ug/L #	83
35) cis-1,3-Dichloropropene	13.16	75	13465	1.86 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.79 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.86 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.95 ug/L	96
40) Toluene	14.21	92	22811	1.98 ug/L	95
42) 1,3-Dichloropropane	14.28	76	10418	1.88 ug/L	90

(#) = qualifier out of range (m) = manual integration
03171108.D 031711.M Fri Mar 18 08:37:34 2011

3/21/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

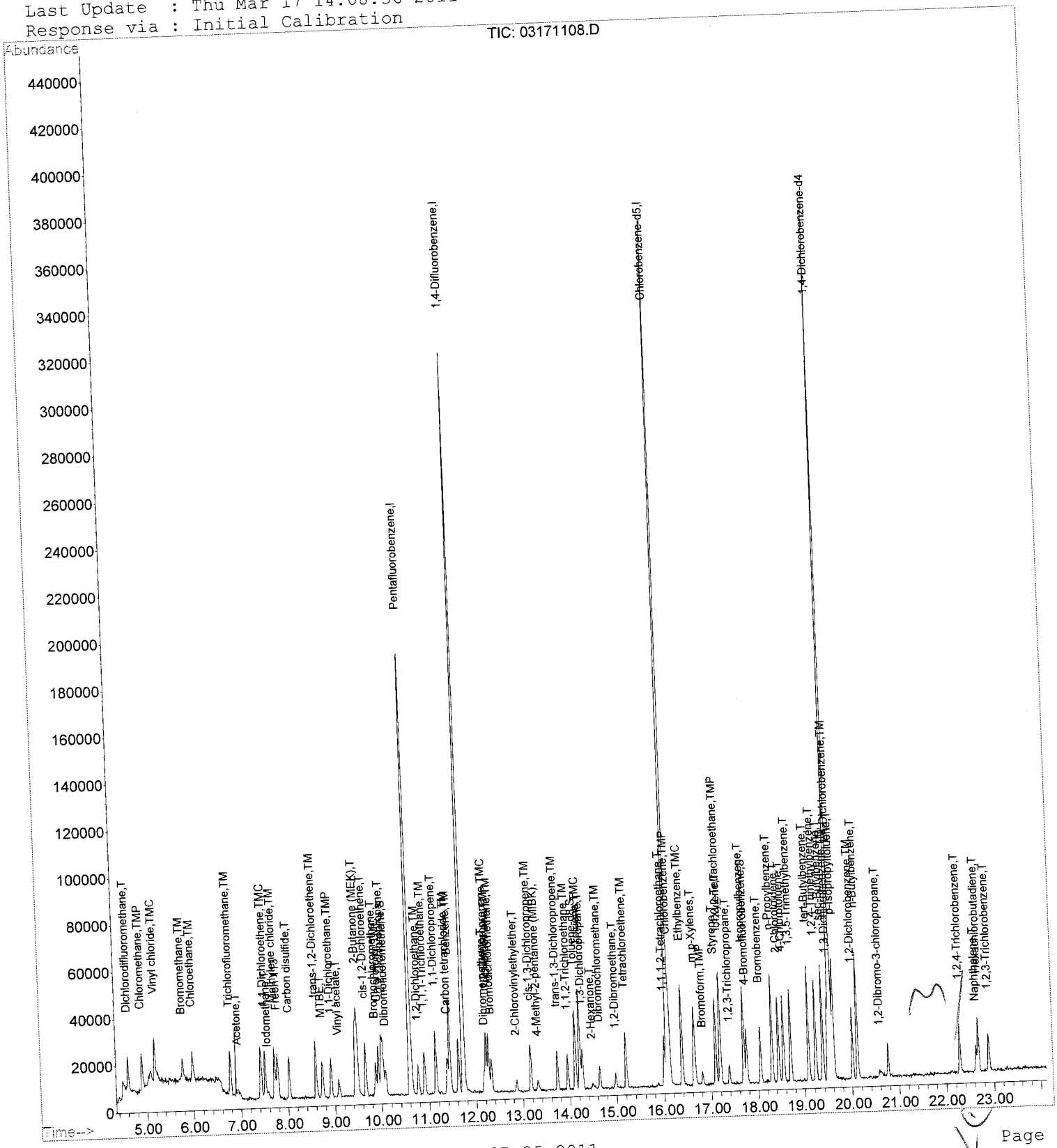
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2474	1.34 ug/L #	88
44) Dibromochloromethane	14.65	129	6238	1.88 ug/L	98
45) 1,2-Dibromoethane	14.99	107	5443	1.96 ug/L #	98
46) Tetrachloroethene	15.21	166	8224	1.88 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	6797	1.88 ug/L	92
48) Chlorobenzene	16.12	112	21803	1.90 ug/L	90
49) Ethylbenzene	16.38	91	40622	1.88 ug/L	100
50) m,p-Xylenes	16.64	106	14567	1.92 ug/L	98
51) Styrene	17.09	104	21955	1.91 ug/L	99
52) o-Xylene	17.19	106	14080	1.91 ug/L	99
55) Bromoform	16.81	173	2978	1.82 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L	93
57) 1,2,3-Trichloropropane	17.40	110	1450	2.02 ug/L	94
58) Isopropylbenzene	17.69	105	34246	1.98 ug/L	99
59) Bromobenzene	18.05	156	7927	1.99 ug/L	96
60) n-Propylbenzene	18.30	91	47531	1.93 ug/L	98
61) 2-Chlorotoluene	18.44	91	27642	1.91 ug/L	99
62) 4-Chlorotoluene	18.55	91	28051	1.96 ug/L	98
63) 1,3,5-Trimethylbenzene	18.71	105	28488	1.91 ug/L	97
64) tert-Butylbenzene	19.09	119	24316	1.91 ug/L	95
65) 1,2,4-Trimethylbenzene	19.24	105	29321	1.96 ug/L	95
66) sec-Butylbenzene	19.38	105	43119	1.98 ug/L	97
67) 1,3-Dichlorobenzene	19.48	146	16064	1.98 ug/L	97
68) 1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L	97
69) p-Isopropyltoluene	19.61	119	32053	1.93 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	13744	1.95 ug/L	98
71) n-Butylbenzene	20.12	91	35106	1.90 ug/L	97
72) 1,2-Dibromo-3-chloropropan	20.59	157	972	2.21 ug/L #	79
73) 1,2,4-Trichlorobenzene	22.29	180	8342	1.83 ug/L	96
74) Naphthalene	22.63	128	10824	1.79 ug/L	100
75) Hexachlorobutadiene	22.68	225	5711	1.96 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	7016	1.89 ug/L	94

(#) = qualifier out of range (m) = manual integration
03171108.D 031711.M Fri Mar 18 08:37:34 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 22.08%	
39) Toluene-d8	14.12	98	75601	5.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.20%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.68 ug/L	96
3) Chloromethane	4.90	50	69304	5.42 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.23 ug/L	97
5) Bromomethane	5.77	94	23286	4.14 ug/L	93
6) Chloroethane	5.98	64	31380	5.20 ug/L	95
7) Trichlorofluoromethane	6.78	101	44900	5.67 ug/L	97
8) Acetone	6.94	43	8551	6.12 ug/L	98
9) Iodomethane	7.57	142	19144	5.33 ug/L	97
10) 1,1-Dichloroethene	7.51	96	23635	5.12 ug/L	97
11) Methylene chloride	7.71	84	29505	5.43 ug/L	97
12) Freon 113	7.78	101	28220	5.16 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.39 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.35 ug/L	91
15) MTBE	8.74	73	47481	5.43 ug/L	99
16) 1,1-Dichloroethane	8.92	63	57409	5.38 ug/L	99
17) Vinyl acetate	9.09	43	45219	5.46 ug/L	98
18) 2-Butanone (MEK)	9.47	72	1224	5.50 ug/L #	37
19) cis-1,2-Dichloroethene	9.66	96	29437	5.56 ug/L	94
20) Bromochloromethane	9.87	128	11063	5.71 ug/L	95
21) Chloroform	9.93	83	49311	5.60 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.54 ug/L	100
24) 1,2-Dichloroethane	10.78	62	29254	5.45 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.54 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.40 ug/L	98
29) Benzene	11.44	78	106054	5.22 ug/L	98
30) Dibromomethane	12.17	93	12758	5.31 ug/L	97
31) 1,2-Dichloropropane	12.21	63	30926	5.45 ug/L	99
32) Trichloroethene	12.26	95	27719	5.46 ug/L	95
33) Bromodichloromethane	12.33	83	32710	5.49 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.89 ug/L	96
35) cis-1,3-Dichloropropene	13.17	75	39480	5.45 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	5.15 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.40 ug/L	99
40) Toluene	14.21	92	60380	5.23 ug/L	98
42) 1,3-Dichloropropane	14.27	76	31749	5.68 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031711.M Fri Mar 18 08:37:49 2011

MS 3/18/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

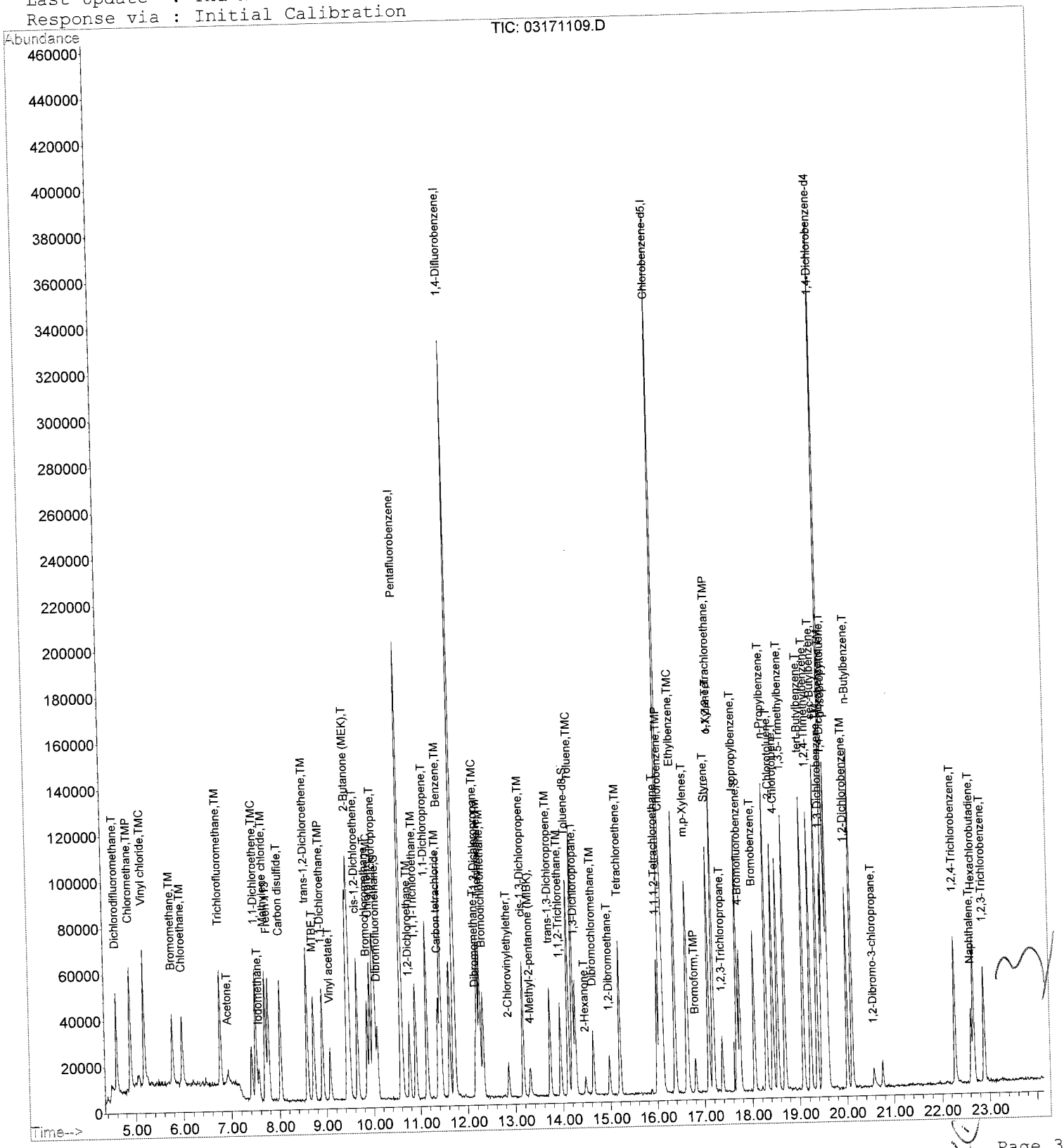
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	10625	5.70 ug/L #	86
44) Dibromochloromethane	14.64	129	17145	5.10 ug/L	98
45) 1,2-Dibromoethane	14.98	107	15883	5.66 ug/L #	98
46) Tetrachloroethene	15.21	166	22589	5.10 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.00	131	18388	5.02 ug/L	96
48) Chlorobenzene	16.12	112	60084	5.17 ug/L	96
49) Ethylbenzene	16.38	91	112334	5.13 ug/L	99
50) m,p-Xylenes	16.64	106	39718	5.18 ug/L	100
51) Styrene	17.09	104	62548	5.38 ug/L	98
52) o-Xylene	17.20	106	38050	5.11 ug/L	98
55) Bromoform	16.81	173	9209	5.49 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	4203	5.70 ug/L	90
58) Isopropylbenzene	17.69	105	91339	5.15 ug/L	98
59) Bromobenzene	18.05	156	21568	5.27 ug/L	95
60) n-Propylbenzene	18.30	91	134531	5.32 ug/L	98
61) 2-Chlorotoluene	18.45	91	75803	5.11 ug/L	100
62) 4-Chlorotoluene	18.55	91	77070	5.24 ug/L	97
63) 1,3,5-Trimethylbenzene	18.70	105	79213	5.17 ug/L	100
64) tert-Butylbenzene	19.09	119	66536	5.10 ug/L	98
65) 1,2,4-Trimethylbenzene	19.23	105	78965	5.13 ug/L	99
66) sec-Butylbenzene	19.37	105	115485	5.17 ug/L	98
67) 1,3-Dichlorobenzene	19.48	146	42641	5.12 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L	97
69) p-Isopropyltoluene	19.60	119	87337	5.11 ug/L	97
70) 1,2-Dichlorobenzene	20.01	146	38242	5.28 ug/L	99
71) n-Butylbenzene	20.12	91	99714	5.24 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	2137	4.73 ug/L	90
73) 1,2,4-Trichlorobenzene	22.28	180	24323	5.20 ug/L	100
74) Naphthalene	22.63	128	32491	5.23 ug/L	100
75) Hexachlorobutadiene	22.68	225	14709	4.92 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	20581	5.39 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031711.M Fri Mar 18 08:37:49 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 40.72%	
39) Toluene-d8	14.12	98	143321	9.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 38.48%	
53) 4-Bromofluorobenzene	17.75	95	50923	9.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 37.96%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	10.15 ug/L	99
3) Chloromethane	4.89	50	135497	10.40 ug/L	99
4) Vinyl chloride	5.19	62	111850	9.64 ug/L	99
5) Bromomethane	5.78	94	53427	9.01 ug/L	95
6) Chloroethane	5.98	64	63788	10.38 ug/L	99
7) Trichlorofluoromethane	6.78	101	85392	10.59 ug/L	98
8) Acetone	6.94	43	11502	9.36 ug/L	99
9) Iodomethane	7.57	142	36401	9.84 ug/L	98
10) 1,1-Dichloroethene	7.51	96	46909	9.97 ug/L	96
11) Methylene chloride	7.71	84	55460	10.02 ug/L	99
12) Freon 113	7.78	101	52409	9.41 ug/L	98
13) Carbon disulfide	8.03	76	162804	9.73 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.82 ug/L	96
15) MTBE	8.74	73	84759	9.53 ug/L	97
16) 1,1-Dichloroethane	8.92	63	108838	10.03 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.70 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	10.73 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	53573	9.94 ug/L	99
20) Bromochloromethane	9.88	128	20976	10.64 ug/L	95
21) Chloroform	9.93	83	95119	10.62 ug/L	99
22) 2,2-Dichloropropane	10.04	77	73939	10.18 ug/L	100
24) 1,2-Dichloroethane	10.77	62	53618	9.81 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	66517	10.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.20 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.38 ug/L	98
29) Benzene	11.44	78	201076	9.95 ug/L	99
30) Dibromomethane	12.17	93	24596	10.29 ug/L	97
31) 1,2-Dichloropropane	12.21	63	55294	9.80 ug/L	99
32) Trichloroethene	12.27	95	49861	9.87 ug/L	99
33) Bromodichloromethane	12.33	83	60334	10.17 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	11.51 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	73950	10.27 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.82 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.25 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	27640	10.34 ug/L	99
40) Toluene	14.21	92	114354	9.95 ug/L	98
42) 1,3-Dichloropropane	14.27	76	56624	10.22 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171110.D 031711.M Fri Mar 18 08:38:05 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	17603	9.53 ug/L #	98
44) Dibromochloromethane	14.64	129	32389	9.72 ug/L	99
45) 1,2-Dibromoethane	14.98	107	28536	10.26 ug/L	97
46) Tetrachloroethene	15.21	166	44478	10.13 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.01	131	35495	9.79 ug/L	98
48) Chlorobenzene	16.12	112	113625	9.87 ug/L	99
49) Ethylbenzene	16.38	91	215370	9.93 ug/L	100
50) m,p-Xylenes	16.64	106	74201	9.77 ug/L	99
51) Styrene	17.09	104	115227	10.01 ug/L	99
52) o-Xylene	17.20	106	71920	9.74 ug/L	100
55) Bromoform	16.81	173	16316	10.27 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L #	97
57) 1,2,3-Trichloropropane	17.39	110	7243	10.36 ug/L	91
58) Isopropylbenzene	17.69	105	176438	10.50 ug/L	99
59) Bromobenzene	18.05	156	40825	10.53 ug/L	98
60) n-Propylbenzene	18.30	91	250684	10.45 ug/L	99
61) 2-Chlorotoluene	18.45	91	143690	10.22 ug/L	100
62) 4-Chlorotoluene	18.55	91	141563	10.16 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	151285	10.42 ug/L	98
64) tert-Butylbenzene	19.09	119	128292	10.37 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	149598	10.25 ug/L	100
66) sec-Butylbenzene	19.37	105	214687	10.13 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	80400	10.17 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L	99
69) p-Isopropyltoluene	19.61	119	168592	10.41 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	69024	10.04 ug/L	98
71) n-Butylbenzene	20.12	91	183374	10.17 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	4643	10.84 ug/L	98
73) 1,2,4-Trichlorobenzene	22.28	180	41924	9.44 ug/L	100
74) Naphthalene	22.63	128	55616	9.45 ug/L	100
75) Hexachlorobutadiene	22.68	225	29027	10.24 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	34759	9.60 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171110.D 031711.M Fri Mar 18 08:38:05 2011

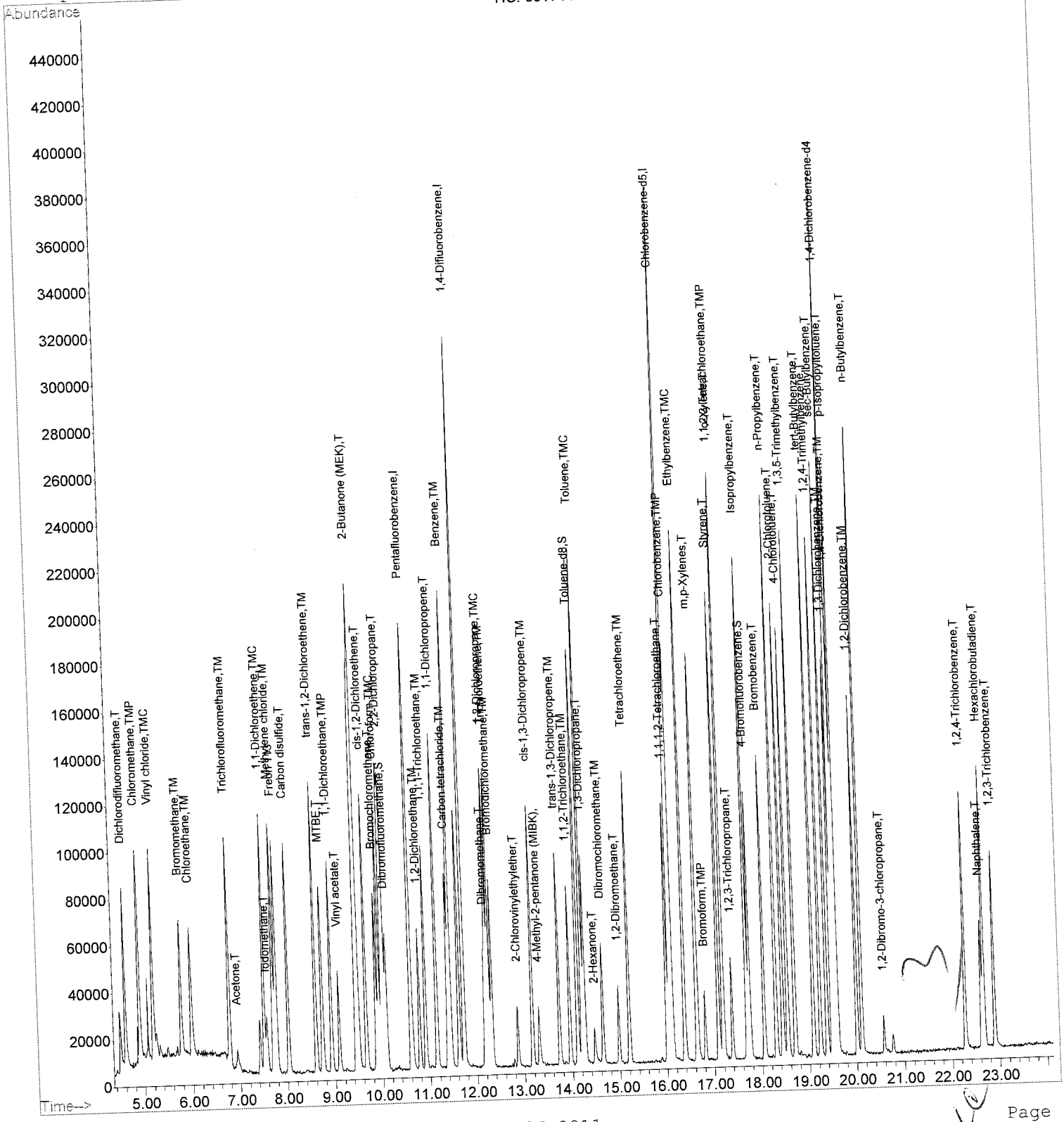
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Re-Calc

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	25.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.00%	
39) Toluene-d8	14.12	98	359841	24.50 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.00%	
53) 4-Bromofluorobenzene	17.75	95	128707	24.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 96.88%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.77 ug/L	100
3) Chloromethane	4.89	50	322628	25.13 ug/L	100
4) Vinyl chloride	5.18	62	283499	24.80 ug/L	100
5) Bromomethane	5.78	94	141242	23.74 ug/L	100
6) Chloroethane	5.98	64	150117	24.77 ug/L	100
7) Trichlorofluoromethane	6.78	101	214158	26.95 ug/L	100
8) Acetone	6.94	43	25928	26.49 ug/L	100
9) Iodomethane	7.57	142	98109	26.69 ug/L	100
10) 1,1-Dichloroethene	7.51	96	111502	24.05 ug/L	100
11) Methylene chloride	7.71	84	132209	24.24 ug/L	100
12) Freon 113	7.77	101	133636	24.35 ug/L	100
13) Carbon disulfide	8.03	76	401884	24.37 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.73 ug/L	100
15) MTBE	8.74	73	214946	24.52 ug/L	100
16) 1,1-Dichloroethane	8.92	63	264682	24.74 ug/L	100
17) Vinyl acetate	9.08	43	202265	24.34 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6903	26.82 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	131490	24.75 ug/L	100
20) Bromochloromethane	9.87	128	47437	24.40 ug/L	100
21) Chloroform	9.93	83	218360	24.73 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	25.16 ug/L	100
24) 1,2-Dichloroethane	10.78	62	136474	25.33 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	162207	25.58 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.69 ug/L	100
28) Carbon tetrachloride	11.39	117	133369	25.91 ug/L	100
29) Benzene	11.44	78	490622	24.62 ug/L	100
30) Dibromomethane	12.17	93	58067	24.63 ug/L	100
31) 1,2-Dichloropropane	12.21	63	140014	25.15 ug/L	100
32) Trichloroethene	12.27	95	124690	25.02 ug/L	100
33) Bromodichloromethane	12.33	83	150764	25.77 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	28.39 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	183565	25.85 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	24.58 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.79 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	25.19 ug/L	100
40) Toluene	14.21	92	282149	24.90 ug/L	100
42) 1,3-Dichloropropane	14.27	76	140210	25.55 ug/L	100

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

ml 4/11/11

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

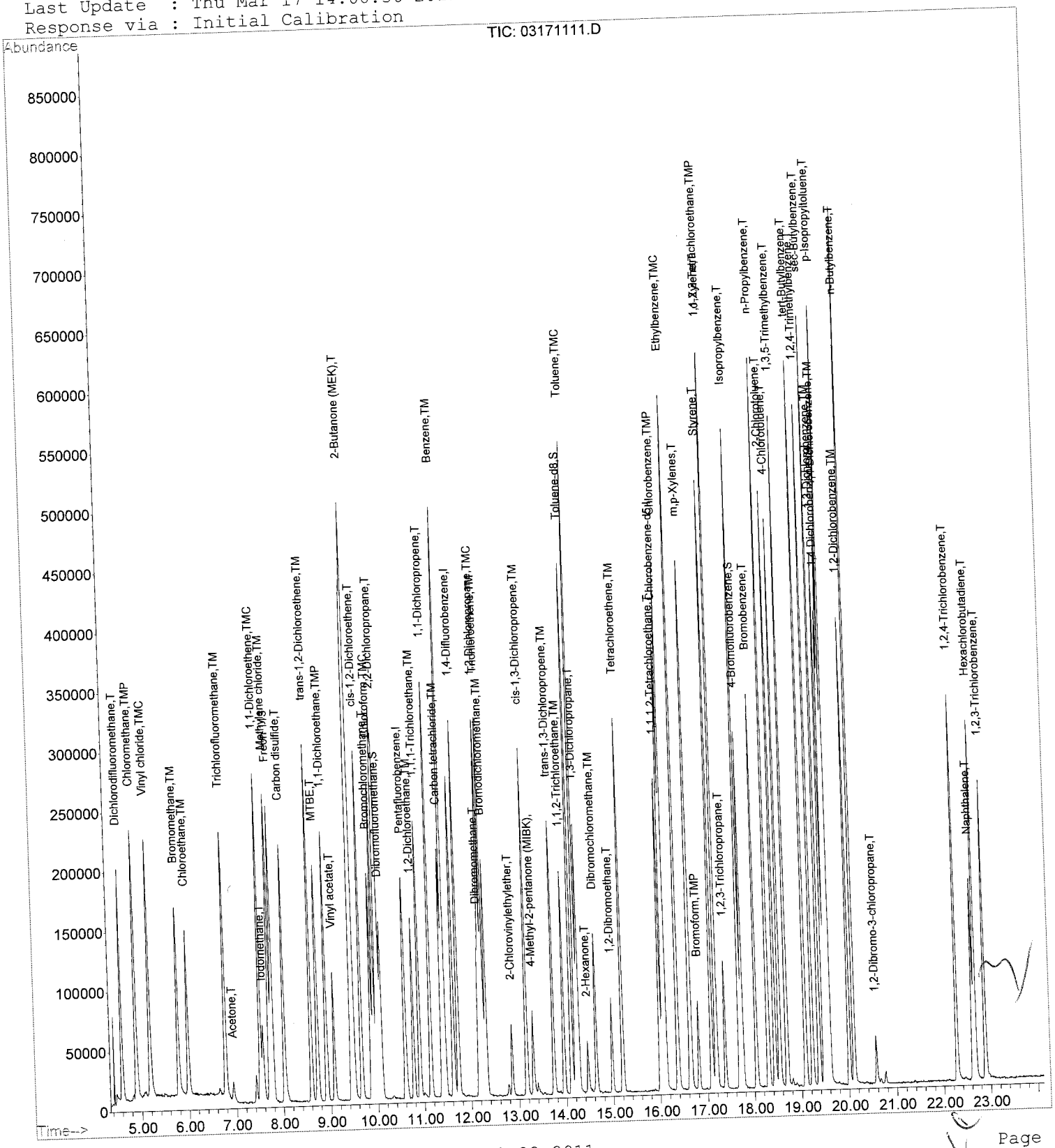
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	44449	24.30 ug/L #	100
44) Dibromochloromethane	14.64	129	81864	24.81 ug/L	100
45) 1,2-Dibromoethane	14.98	107	70424	25.57 ug/L	100
46) Tetrachloroethene	15.21	166	109364	25.15 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.01	131	87769	24.44 ug/L	100
48) Chlorobenzene	16.12	112	284407	24.96 ug/L	100
49) Ethylbenzene	16.37	91	538674	25.09 ug/L	100
50) m,p-Xylenes	16.64	106	186494	24.80 ug/L	100
51) Styrene	17.09	104	295005	25.87 ug/L	100
52) o-Xylene	17.19	106	177920	24.34 ug/L	100
55) Bromoform	16.81	173	42372	26.07 ug/L	100
56) 1,1,2,2-Tetrachloroethane	17.18	83	82184	25.00 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	18834	26.34 ug/L	100
58) Isopropylbenzene	17.69	105	445254	25.90 ug/L	100
59) Bromobenzene	18.05	156	105054	26.49 ug/L	100
60) n-Propylbenzene	18.30	91	632559	25.78 ug/L	100
61) 2-Chlorotoluene	18.44	91	364433	25.35 ug/L	100
62) 4-Chlorotoluene	18.55	91	369067	25.89 ug/L	100
63) 1,3,5-Trimethylbenzene	18.70	105	381972	25.71 ug/L	100
64) tert-Butylbenzene	19.09	119	324112	25.63 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	382900	25.64 ug/L	100
66) sec-Butylbenzene	19.37	105	556785	25.69 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	205642	25.45 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	201942	24.82 ug/L	100
69) p-Isopropyltoluene	19.61	119	434002	26.19 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	178826	25.44 ug/L	100
71) n-Butylbenzene	20.12	91	487367	26.43 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	11318	25.84 ug/L	100
73) 1,2,4-Trichlorobenzene	22.28	180	122376	26.96 ug/L	100
74) Naphthalene	22.63	128	163821	27.21 ug/L	100
75) Hexachlorobutadiene	22.69	225	76790	26.49 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	101564	27.44 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031711.M Fri Mar 18 08:38:21 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	46.49 ug/L	0.00
Spiked Amount 25.000			Recovery = 185.96%		
39) Toluene-d8	14.11	98	726789	47.56 ug/L	0.00
Spiked Amount 25.000			Recovery = 190.24%		
53) 4-Bromofluorobenzene	17.76	95	259969	47.19 ug/L	0.00
Spiked Amount 25.000			Recovery = 188.76%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	47.93 ug/L	98
3) Chloromethane	4.90	50	687656	50.97 ug/L	99
4) Vinyl chloride	5.18	62	596978	49.70 ug/L	98
5) Bromomethane	5.78	94	296252	47.13 ug/L	98
6) Chloroethane	5.99	64	300876	47.25 ug/L	99
7) Trichlorofluoromethane	6.78	101	340516	40.77 ug/L	97
8) Acetone	6.93	43	44278	45.51 ug/L	99
9) Iodomethane	7.58	142	195341	50.45 ug/L	98
10) 1,1-Dichloroethene	7.52	96	220268	45.21 ug/L	99
11) Methylene chloride	7.71	84	264019	46.07 ug/L	99
12) Freon 113	7.78	101	262900	45.58 ug/L	99
13) Carbon disulfide	8.03	76	807912	46.61 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.15 ug/L	98
15) MTBE	8.73	73	407385	44.23 ug/L	99
16) 1,1-Dichloroethane	8.92	63	517515	46.02 ug/L	99
17) Vinyl acetate	9.08	43	400997	45.91 ug/L	99
18) 2-Butanone (MEK)	9.47	72	13656	49.70 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	257331	46.10 ug/L	99
20) Bromochloromethane	9.87	128	96376	47.18 ug/L	96
21) Chloroform	9.93	83	424654	45.77 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.51 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	46.20 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	323769	48.60 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.20 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	50.05 ug/L	100
29) Benzene	11.44	78	1008066	48.61 ug/L	98
30) Dibromomethane	12.17	93	116662	47.55 ug/L	98
31) 1,2-Dichloropropane	12.21	63	281688	48.64 ug/L	100
32) Trichloroethene	12.26	95	255144	49.21 ug/L	99
33) Bromodichloromethane	12.33	83	300337	49.34 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	50.19 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	364674	49.35 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	47.40 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.75 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	48.12 ug/L	99
40) Toluene	14.22	92	583744	49.52 ug/L	98
42) 1,3-Dichloropropane	14.27	76	277506	48.79 ug/L	97

(#) = qualifier out of range (m) = manual integration
03171112.D 031711.M Fri Mar 18 08:38:39 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	50.92 ug/L #	94
44) Dibromochloromethane	14.65	129	168655	49.32 ug/L	98
45) 1,2-Dibromoethane	14.98	107	142279	49.83 ug/L	97
46) Tetrachloroethene	15.20	166	223148	49.50 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	48.47 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.83 ug/L	99
49) Ethylbenzene	16.38	91	1095906	49.25 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.30 ug/L	98
51) Styrene	17.10	104	602783	50.99 ug/L	99
52) o-Xylene	17.20	106	366193	48.33 ug/L	97
55) Bromoform	16.82	173	87491	52.11 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.02 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	50.24 ug/L	96
58) Isopropylbenzene	17.70	105	904235	50.93 ug/L	99
59) Bromobenzene	18.05	156	210716	51.44 ug/L	99
60) n-Propylbenzene	18.30	91	1279523	50.48 ug/L	100
61) 2-Chlorotoluene	18.45	91	736550	49.60 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.32 ug/L	100
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.75 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	50.66 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	772492	50.09 ug/L	99
66) sec-Butylbenzene	19.38	105	1121222	50.08 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	414698	49.68 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	411367	48.95 ug/L	98
69) p-Isopropyltoluene	19.61	119	866615	50.64 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	49.55 ug/L	99
71) n-Butylbenzene	20.11	91	964633	50.65 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	49.85 ug/L	91
73) 1,2,4-Trichlorobenzene	22.28	180	240360	51.26 ug/L	99
74) Naphthalene	22.63	128	314469	50.58 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	50.29 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	192513	50.36 ug/L	99

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

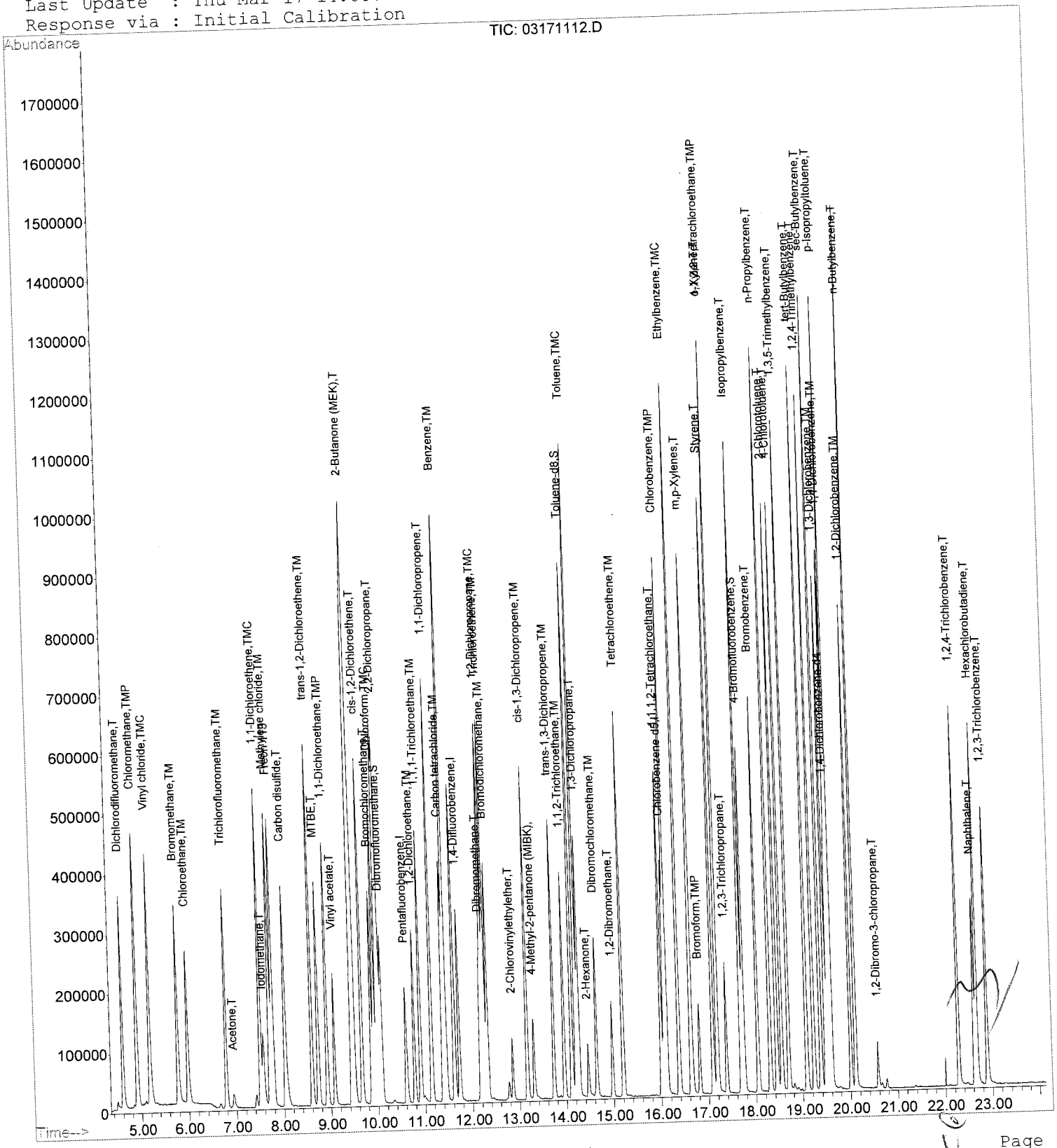
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	96.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 385.84%	
39) Toluene-d8	14.12	98	1505447	96.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 386.08%	
53) 4-Bromofluorobenzene	17.75	95	536695	97.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 390.08%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	94.19 ug/L	98
3) Chloromethane	4.90	50	1431368	104.65 ug/L	99
4) Vinyl chloride	5.18	62	1228117	100.85 ug/L	100
5) Bromomethane	5.78	94	641424	100.36 ug/L	98
6) Chloroethane	5.98	64	584071	90.47 ug/L	100
7) Trichlorofluoromethane	6.78	101	698452	82.49 ug/L	98
8) Acetone	6.94	43	84316	88.94 ug/L	97
9) Iodomethane	7.58	142	393011	100.00 ug/L	99
10) 1,1-Dichloroethene	7.52	96	450680	91.25 ug/L	99
11) Methylene chloride	7.71	84	530536	91.30 ug/L	99
12) Freon 113	7.78	101	537890	91.98 ug/L	99
13) Carbon disulfide	8.04	76	1652598	94.04 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.19 ug/L	96
15) MTBE	8.74	73	859812	92.07 ug/L	99
16) 1,1-Dichloroethane	8.93	63	1054794	92.52 ug/L	99
17) Vinyl acetate	9.08	43	827230	93.42 ug/L	99
18) 2-Butanone (MEK)	9.47	72	27904	99.26 ug/L	96
19) cis-1,2-Dichloroethene	9.66	96	527963	93.29 ug/L	99
20) Bromochloromethane	9.87	128	191014	92.23 ug/L	94
21) Chloroform	9.93	83	877382	93.27 ug/L	100
22) 2,2-Dichloropropane	10.04	77	739530	96.96 ug/L	99
24) 1,2-Dichloroethane	10.78	62	540824	94.21 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	659685	97.66 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.58 ug/L	98
28) Carbon tetrachloride	11.39	117	547122	100.10 ug/L	100
29) Benzene	11.44	78	2051183	96.91 ug/L	99
30) Dibromomethane	12.17	93	236182	94.32 ug/L	99
31) 1,2-Dichloropropane	12.21	63	573859	97.07 ug/L	99
32) Trichloroethene	12.27	95	518186	97.91 ug/L	100
33) Bromodichloromethane	12.33	83	619726	99.74 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	94.85 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	755768	100.21 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	100.07 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.98 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	97.54 ug/L	99
40) Toluene	14.22	92	1181672	98.20 ug/L	98
42) 1,3-Dichloropropane	14.27	76	562918	99.07 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171113.D 031711.M Fri Mar 18 08:38:55 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

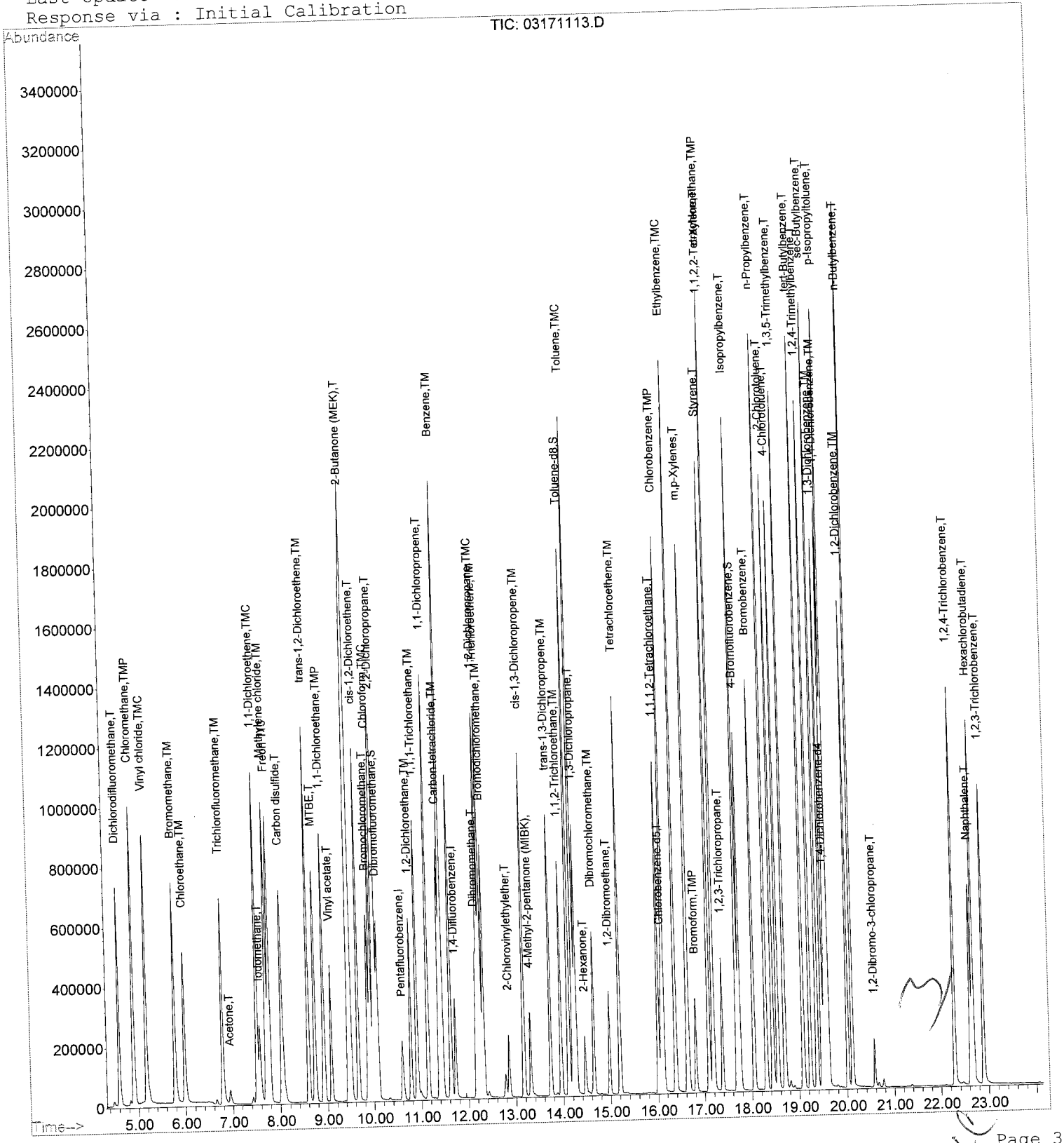
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	203381	107.35 ug/L #	96
44) Dibromochloromethane	14.65	129	341882	100.06 ug/L	98
45) 1,2-Dibromoethane	14.98	107	294156	103.12 ug/L	99
46) Tetrachloroethene	15.20	166	455622	101.17 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	371997	100.03 ug/L	98
48) Chlorobenzene	16.12	112	1190206	100.85 ug/L	99
49) Ethylbenzene	16.38	91	2245318	100.99 ug/L	100
50) m,p-Xylenes	16.64	106	773283	99.30 ug/L	100
51) Styrene	17.10	104	1244691	105.39 ug/L	99
52) o-Xylene	17.20	106	750628	99.16 ug/L	97
55) Bromoform	16.82	173	182147	105.27 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	341207	97.52 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	75618	99.33 ug/L	96
58) Isopropylbenzene	17.70	105	1844526	100.80 ug/L	100
59) Bromobenzene	18.05	156	429425	101.72 ug/L	99
60) n-Propylbenzene	18.30	91	2615929	100.14 ug/L	100
61) 2-Chlorotoluene	18.45	91	1500663	98.05 ug/L	99
62) 4-Chlorotoluene	18.55	91	1492720	98.39 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	1584063	100.18 ug/L	99
64) tert-Butylbenzene	19.09	119	1344278	99.86 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	1578520	99.31 ug/L	99
66) sec-Butylbenzene	19.39	105	2280043	98.81 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	847018	98.46 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	846913	97.78 ug/L	98
69) p-Isopropyltoluene	19.61	119	1785874	101.26 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	731103	97.71 ug/L	100
71) n-Butylbenzene	20.12	91	1981760	100.96 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	45883	98.40 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	510699	105.68 ug/L	99
74) Naphthalene	22.63	128	678287	105.85 ug/L	100
75) Hexachlorobutadiene	22.69	225	316227	102.46 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	412634	104.74 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	839626	186.83 ug/L	0.00
Spiked Amount 25.000			Recovery	= 747.32%	
39) Toluene-d8	14.12	98	3013932	192.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 770.40%	
53) 4-Bromofluorobenzene	17.76	95	1038923	185.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 743.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	176.30 ug/L	98
3) Chloromethane	4.90	50	2913054	208.82 ug/L	99
4) Vinyl chloride	5.16	62	2428967	195.57 ug/L	100
5) Bromomethane	5.78	94	1343422	205.83 ug/L	97
6) Chloroethane	5.98	64	1199344	182.14 ug/L	100
7) Trichlorofluoromethane	6.79	101	1701514	197.03 ug/L	99
8) Acetone	6.94	43	201529	213.75 ug/L	98
9) Iodomethane	7.58	142	794173	198.00 ug/L	98
10) 1,1-Dichloroethene	7.52	96	920511	182.74 ug/L	98
11) Methylene chloride	7.71	84	1063508	179.46 ug/L	97
12) Freon 113	7.78	101	1079115	180.94 ug/L	98
13) Carbon disulfide	8.03	76	3312605	184.83 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	185.90 ug/L	97
15) MTBE	8.74	73	1719756	180.56 ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	181.08 ug/L	99
17) Vinyl acetate	9.08	43	1660788	183.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	57153	198.44 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	185.99 ug/L	98
20) Bromochloromethane	9.88	128	361702	171.24 ug/L	95
21) Chloroform	9.93	83	1746080	182.00 ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	186.19 ug/L	98
24) 1,2-Dichloroethane	10.78	62	1056987	180.53 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	1325051	192.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.84 ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	199.16 ug/L	100
29) Benzene	11.45	78	4061777	191.29 ug/L	99
30) Dibromomethane	12.17	93	461244	183.60 ug/L	98
31) 1,2-Dichloropropane	12.21	63	1126863	190.00 ug/L	100
32) Trichloroethene	12.27	95	1022222	192.52 ug/L	98
33) Bromodichloromethane	12.33	83	1217593	195.34 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	166.89 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	1495017	197.58 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	195.44 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.66 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	191.00 ug/L	100
40) Toluene	14.22	92	2368495	196.20 ug/L	98
42) 1,3-Dichloropropane	14.28	76	1107954	191.97 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171114.D 031711.M Fri Mar 18 08:39:11 2011

ML 3/18/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

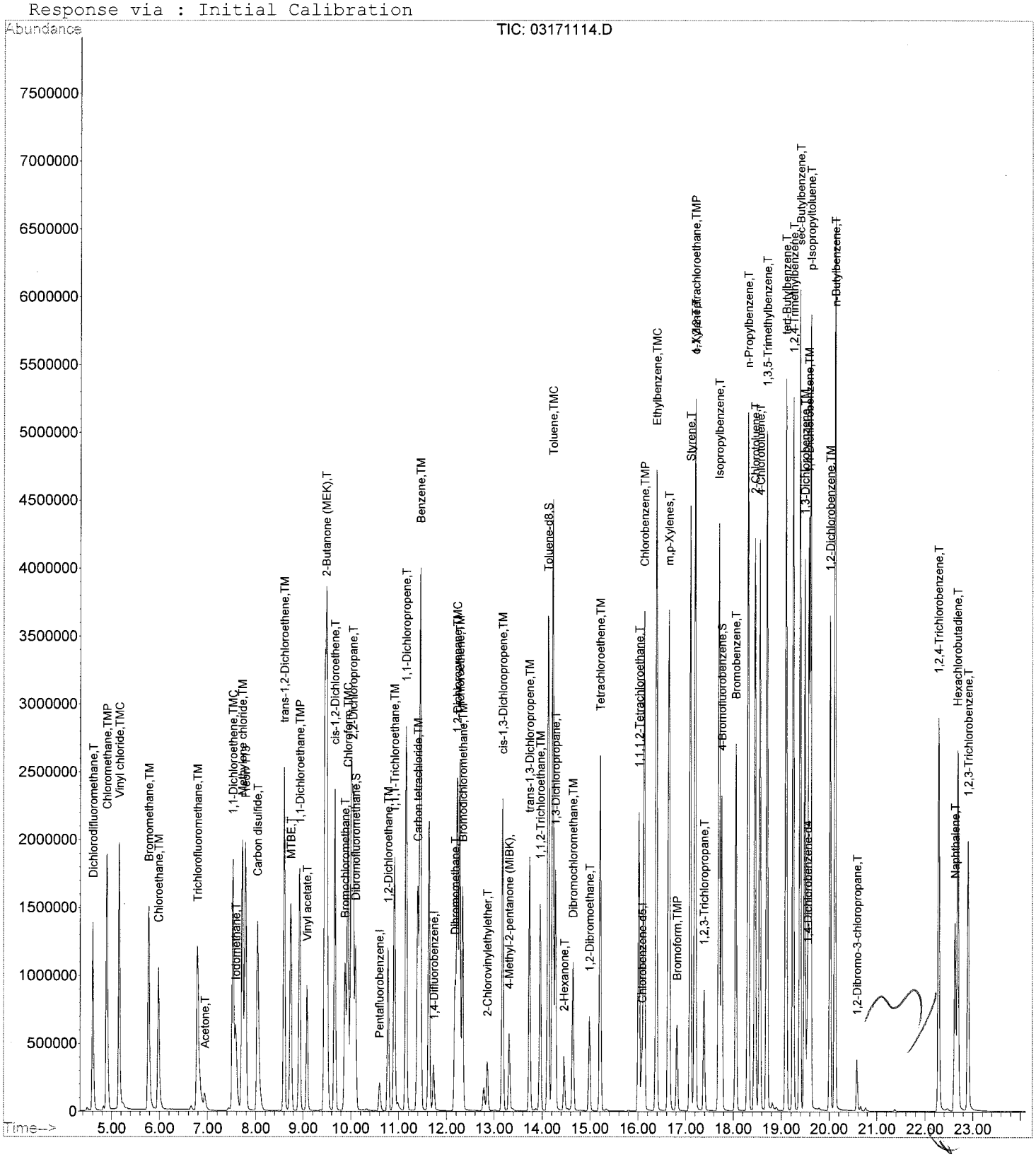
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	396743	206.17 ug/L #	96
44) Dibromochloromethane	14.65	129	686033	197.67 ug/L	99
45) 1,2-Dibromoethane	14.99	107	575405	198.59 ug/L	99
46) Tetrachloroethene	15.20	166	914229	199.85 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.02	131	755965	200.14 ug/L	96
48) Chlorobenzene	16.13	112	2393108	199.64 ug/L	97
49) Ethylbenzene	16.38	91	4465000	197.71 ug/L	99
50) m,p-Xylenes	16.64	106	1550944	196.07 ug/L	99
51) Styrene	17.10	104	2561762	213.54 ug/L	98
52) o-Xylene	17.20	106	1517247	197.33 ug/L	97
55) Bromoform	16.82	173	364089	184.76 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.19	83	656346	164.71 ug/L	97
57) 1,2,3-Trichloropropane	17.38	110	155202	179.01 ug/L	97
58) Isopropylbenzene	17.70	105	3655213	175.39 ug/L	99
59) Bromobenzene	18.05	156	865850	180.09 ug/L	98
60) n-Propylbenzene	18.31	91	5305462	178.33 ug/L	99
61) 2-Chlorotoluene	18.45	91	3128722	179.50 ug/L	99
62) 4-Chlorotoluene	18.56	91	3203621	185.40 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	3485140	193.53 ug/L	98
64) tert-Butylbenzene	19.09	119	2997423	195.51 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	3435108	189.77 ug/L	98
66) sec-Butylbenzene	19.39	105	5038432	191.73 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	1885851	192.49 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	1902798	192.90 ug/L	99
69) p-Isopropyltoluene	19.61	119	4021709	200.23 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	1645465	193.10 ug/L	99
71) n-Butylbenzene	20.12	91	4374192	195.66 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	102361	192.76 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	1107731	201.28 ug/L	98
74) Naphthalene	22.63	128	1413680	193.70 ug/L	100
75) Hexachlorobutadiene	22.69	225	688401	195.85 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	830638	185.13 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171114.D 031711.M Fri Mar 18 08:39:11 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: 8260B

DATE: 03/22/2011

WORK ORDER: PUC1004

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-001 R.1
GC/MS Volatile Organic Analysis [Method No. EPA 624 & 8260B]

Analysis Date: 03/22/11 | Analyst: LC

Description	Yes	No	NA[1]
1. BFB (50 ng or less): Verify meets criteria every 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.M	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:			
- Second source within historical limits	✓		
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓	✓	(1)
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- LCS/LSCD recoveries within historical limits	✓	✓	(2)
- RPD ≤ 25%	✓	✓	(3)
- Surrogates within historical limits	✓		
6. MS/MSD	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- MS/MSD recoveries within historical limits	✓		
- RPD ≤ 25%	✓		
- Surrogates within historical limits	✓		
7. Samples	✓		
- Analyzed within 14 days of sampling	✓		
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL or CCV	✓		
- Surrogate recoveries within historical limits	✓		
- pH ≤ 2	✓		
- If pH is not ≤ 2, flag data with P and pH Data Qualifier	✓		

Comments:
(1) Acetone - C
(2) Iodomethane - L
(3) Carbon disulfide, 1,1-DCE, Iodomethane, Methylene chloride - R7
CAR # 14134

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:	Analyst:	Date: 03/22/11
	Reviewer:	Date: 3/22/11

1) NA: Not Applicable

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\032211

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03221101.d	1.	TUNE		22 Mar 2011 06:38
2	1	03221102.d	1.	25 PPB CCV		22 Mar 2011 06:58
3	2	03221103.d	1.	-BS1		22 Mar 2011 07:29
4	3	03221104.d	1.	-BSD1		22 Mar 2011 08:00
5	4	03221105.d	1.	-BLK1		22 Mar 2011 08:31
6	5	03221106.d	1.	DNU		22 Mar 2011 09:01
7	6	03221107.d	1.	PUC1114-05	TB	22 Mar 2011 09:32
8	7	03221108.d	1.	PUC0982-02	SOURCE	22 Mar 2011 10:03
9	8	03221109.d	1.	-MS1		22 Mar 2011 10:34
10	9	03221110.d	1.	-MSD1		22 Mar 2011 11:05
11	10	03221111.d	1.	PUC1083-19RE2	100X	22 Mar 2011 11:36
12	12	03221112.d	1.	PUC0982-01		22 Mar 2011 12:07
13	13	03221113.d	1.	PUC0982-03		22 Mar 2011 12:37
14	13	03221114.d	1.	PUC0982-04		22 Mar 2011 13:08
15	16	03221115.d	1.	PUC1002-01		22 Mar 2011 13:39
16	1	03221116.d	1.	PUC1083-20RE1		22 Mar 2011 14:10
17	2	03221117.d	1.	PUC0997-01RE1	20X	22 Mar 2011 14:41
18	3	03221118.d	1.	PUC1004-01		22 Mar 2011 15:12
19	4	03221119.d	1.	PUC1113-01		22 Mar 2011 15:43
20	5	03221120.d	1.	PUC1114-01		22 Mar 2011 16:13
21	6	03221121.d	1.	PUC1114-02		22 Mar 2011 16:44
22	7	03221122.d	1.	PUC1114-03		22 Mar 2011 17:15
23	8	03221123.d	1.	PUC1114-04		22 Mar 2011 17:46
24	9	03221124.d	1.	PUC1117-01		22 Mar 2011 18:16

M 4/21/11

03/23/11

TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY

DATE: 03/22/11 LC

ANALYST:

QC BATCH # (s) : 11C0791

SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\ 032211

CALIBRATION METHOD(S): 031711.m

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
/	03221101	Tune	2uL	N/A	8260B	H2O	
1	02	25 ppb CCV	1x10mL				Acetone ↑
2	03	11C0791 -BS1					Iodomethane ↑
3	04	-BSD1					
4	05	-BLK1					
/	06	DNU					Bad Purge -DNU
5	07	PUC1114-05A (TB)		≤2			
6	08	0982-02A		≤2			Source
7	09	11C0791 -MS1		≤2			
8	10	-MSD1		≤2			
9	11	PUC1083-19C RE2	100x100uL	≤2			Benzene Only
10	12	0982-01A	1x10mL	≤2			
12	13	-03A		≤2			
13	14	-04A		≤2			
16	15	1002-01A		≤2			
1	16	1083-20B RE1		≤2			Possible carryover in origin
2	17	0997-01B RE1	20x500uL	≤2			No MTBE
3	18	1004-01A	1x10mL	≤2			
4	19	1113-01A		≤2			
5	20	1114-01A		≤2			
6	21	-02A		≤2			
7	22	-03A		≤2			
8	23	-04A		≤2			
9	24	1117-01A		≤2			

LC 03/23/11

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537

CALIBRATION STD: 1654

Internal Std: 1655

IS/Surrogate/BFB: 1657 / PU01261

LOT #: N/A

REQUIRED REVIEWS

ARCHON REVIEWED By / Date: LC 03/22/11

SEQUENCE REVIEWED By / Date: LC 03/22/11

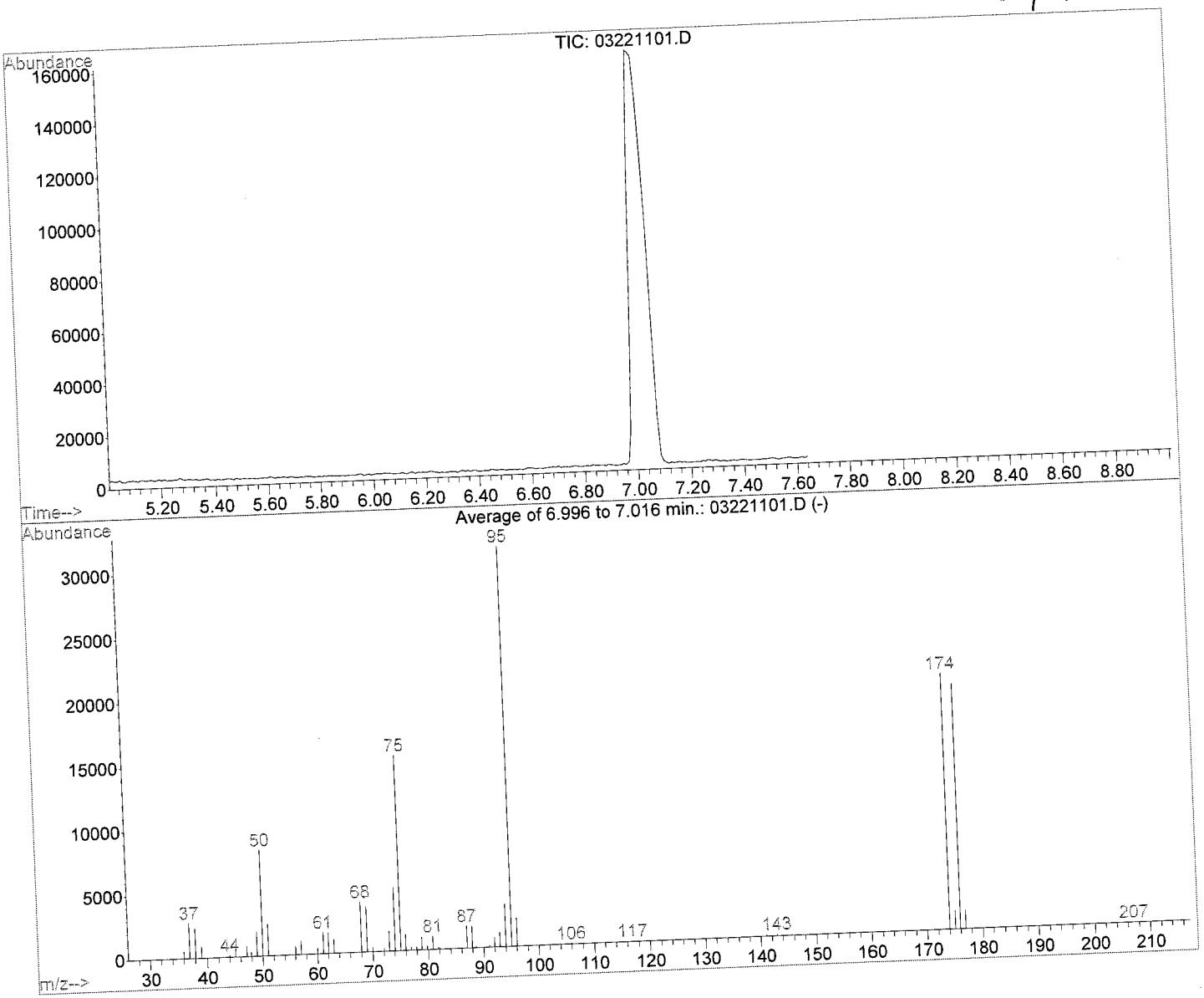
FINAL REVIEWER / Date: 4/6/11

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221101.D
Acq On : 22 Mar 2011 6:38 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

3/22/11



Spectrum Information: Average of 6.996 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.5	8264	PASS
75	95	30	60	48.8	15225	PASS
95	95	100	100	100.0	31216	PASS
96	95	5	9	6.9	2168	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.0	19965	PASS
175	174	5	9	7.1	1423	PASS
176	174	95	101	95.7	19101	PASS
177	176	5	9	7.3	1391	PASS

03221101.D 031711.M Tue Mar 22 12:22:50 2011

NEW8260-CCV

3/22/11

Data File Name	03221102.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\032211\
Operator	LC
Date Acquired	3/22/2011 6:58
Acq. Method File	8260B
Sample Name	25 PPB CCV
Instrument Name	GCMS7

Internal Standard	**Target Response**	**CCV Response**	**Low**	**High**	**T/F**
Pentafluorobenzene	192989	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	343848	291205	145602.5	582410	TRUE
Chlorobenzene-d5	285042	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	125736	112264	56132	224528	TRUE

Name	**Amount**	**Spike Amount**	**% REC**	**Low**	**High**	**T/F**	
Dichlorodifluoromethane	23.37	25.00	93.49	60	150	TRUE	
Chloromethane	22.37	25.00	89.47	60	140	TRUE	
Vinyl chloride	23.46	25.00	93.83	80	120	TRUE	CCC
Bromomethane	19.31	25.00	77.23	70	140	TRUE	
Chloroethane	24.38	25.00	97.54	70	130	TRUE	
Trichlorofluoromethane	23.44	25.00	93.75	70	150	TRUE	
Acetone	45.23	25.00	180.92	10	150	FALSE	
Iodomethane	27.94	25.00	111.77	70	140	TRUE	
1,1-Dichloroethene	21.11	25.00	84.43	80	120	TRUE	CCC
Methylene chloride	20.44	25.00	81.75	70	120	TRUE	
Freon 113	20.47	25.00	81.89	60	140	TRUE	
Carbon disulfide	25.10	25.00	100.41	70	130	TRUE	
trans-1,2-Dichloroethene	21.14	25.00	84.56	80	120	TRUE	
MTBE	20.61	25.00	82.45	70	130	TRUE	
1,1-Dichloroethane	20.66	25.00	82.65	70	125	TRUE	
Vinyl acetate	20.71	25.00	82.86	40	150	TRUE	
2-Butanone (MEK)	25.26	25.00	101.02	40	150	TRUE	
cis-1,2-Dichloroethene	21.01	25.00	84.05	80	120	TRUE	
Bromochloromethane	21.64	25.00	86.55	80	120	TRUE	
Chloroform	20.72	25.00	82.89	80	120	TRUE	CCC
2,2-Dichloropropane	22.07	25.00	88.29	80	130	TRUE	
Dibromofluoromethane	**22.65**	**25.00**	**90.61**	**80**	**120**	TRUE	
1,2-Dichloroethane	20.85	25.00	83.41	75	130	TRUE	
1,1,1-Trichloroethane	21.92	25.00	87.68	80	120	TRUE	
1,1-Dichloropropene	21.61	25.00	86.44	80	120	TRUE	
Carbon tetrachloride	22.56	25.00	90.25	80	130	TRUE	
Benzene	21.00	25.00	84.00	80	120	TRUE	
Dibromomethane	20.50	25.00	82.01	80	120	TRUE	
1,2-Dichloropropane	20.49	25.00	81.97	80	120	TRUE	CCC
Trichloroethene	21.12	25.00	84.47	80	120	TRUE	
Bromodichloromethane	21.21	25.00	84.84	80	120	TRUE	
2-Chlorovinylethylether	26.56	25.00	106.23	70	135	TRUE	
cis-1,3-Dichloropropene	20.82	25.00	83.27	80	120	TRUE	
4-Methyl-2-pentanone (MIB	21.33	25.00	85.31	60	130	TRUE	
trans-1,3-Dichloropropene	20.73	25.00	82.91	80	125	TRUE	

3/22/11

1,1,2-Trichloroethane	20.80	25.00	83.20	80	120	TRUE	
Toluene-d8	**22.38**	**25.00**	**89.54**	**80**	**120**	TRUE	
Toluene	20.95	25.00	83.80	80	120	TRUE	CCC
1,3-Dichloropropane	20.27	25.00	81.08	80	120	TRUE	
2-Hexanone	22.33	25.00	89.31	20	150	TRUE	
Dibromochloromethane	20.46	25.00	81.83	80	120	TRUE	
1,2-Dibromoethane	21.17	25.00	84.67	80	120	TRUE	
Tetrachloroethene	20.98	25.00	83.92	70	130	TRUE	
1,1,1,2-Tetrachloroethane	20.93	25.00	83.72	80	120	TRUE	
Chlorobenzene	20.83	25.00	83.31	80	120	TRUE	
Ethylbenzene	21.08	25.00	84.32	80	120	TRUE	CCC
m,p-Xylenes	21.49	25.00	85.97	60	140	TRUE	
Styrene	22.26	25.00	89.03	80	120	TRUE	
o-Xylene	20.67	25.00	82.70	80	120	TRUE	
4-Bromofluorobenzene	**21.79**	**25.00**	**87.14**	**80**	**120**	TRUE	
Bromoform	22.32	25.00	89.29	80	120	TRUE	
1,1,2,2-Tetrachloroethane	20.56	25.00	82.23	80	120	TRUE	
1,2,3-Trichloropropane	21.39	25.00	85.56	70	130	TRUE	
Isopropylbenzene	23.16	25.00	92.65	80	130	TRUE	
Bromobenzene	22.35	25.00	89.40	80	120	TRUE	
n-Propylbenzene	23.03	25.00	92.12	75	130	TRUE	
2-Chlorotoluene	22.50	25.00	90.01	80	120	TRUE	
4-Chlorotoluene	22.55	25.00	90.20	80	120	TRUE	
1,3,5-Trimethylbenzene	23.19	25.00	92.78	80	130	TRUE	
tert-Butylbenzene	23.20	25.00	92.81	80	120	TRUE	
1,2,4-Trimethylbenzene	23.03	25.00	92.12	80	120	TRUE	
sec-Butylbenzene	22.99	25.00	91.98	80	125	TRUE	
1,3-Dichlorobenzene	22.27	25.00	89.10	80	120	TRUE	
1,4-Dichlorobenzene	21.99	25.00	87.95	80	120	TRUE	
p-Isopropyltoluene	23.62	25.00	94.48	80	130	TRUE	
1,2-Dichlorobenzene	21.32	25.00	85.27	80	120	TRUE	
n-Butylbenzene	23.30	25.00	93.20	80	130	TRUE	
1,2-Dibromo-3-chloropropa	19.47	25.00	77.90	50	150	TRUE	
1,2,4-Trichlorobenzene	22.42	25.00	89.67	50	150	TRUE	
Naphthalene	20.53	25.00	82.11	40	150	TRUE	
Hexachlorobutadiene	23.71	25.00	94.83	40	150	TRUE	
1,2,3-Trichlorobenzene	22.25	25.00	89.01	60	140	TRUE	

7

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D
Acq On : 22 Mar 2011 6:58 am
Sample : 25 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:22 2011

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.59	168	192989	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.72	114	343848	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.06	117	285042	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	125736	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110000	22.65 ug/L	0.00
Spiked Amount 25.000			Recovery = 90.60%		
39) Toluene-d8	14.10	98	388191	22.38 ug/L	-0.01
Spiked Amount 25.000			Recovery = 89.52%		
53) 4-Bromofluorobenzene	17.75	95	136097	21.79 ug/L	0.00
Spiked Amount 25.000			Recovery = 87.16%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	213089	23.37 ug/L	98
3) Chloromethane	4.89	50	337179	22.37 ug/L	99
4) Vinyl chloride	5.18	62	314832	23.46 ug/L	98
5) Bromomethane	5.78	94	134516	19.31 ug/L	98
6) Chloroethane	5.98	64	173501	24.38 ug/L	100
7) Trichlorofluoromethane	6.77	101	218697	23.44 ug/L	98
8) Acetone	6.92	43	49192	45.23 ug/L	100
9) Iodomethane	7.57	142	120625	27.94 ug/L	100
10) 1,1-Dichloroethene	7.51	96	114889	21.11 ug/L	99
11) Methylene chloride	7.70	84	130878	20.44 ug/L	99
12) Freon 113	7.77	101	131933	20.47 ug/L	100
13) Carbon disulfide	8.02	76	486157	25.10 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	127312	21.14 ug/L	96
15) MTBE	8.73	73	212128	20.61 ug/L	100
16) 1,1-Dichloroethane	8.92	63	259588	20.66 ug/L	99
17) Vinyl acetate	9.08	43	202136	20.71 ug/L	100
18) 2-Butanone (MEK)	9.46	72	7617	25.26 ug/L	59
19) cis-1,2-Dichloroethene	9.65	96	131050	21.01 ug/L	98
20) Bromochloromethane	9.86	128	49383	21.64 ug/L	98
21) Chloroform	9.92	83	214825	20.72 ug/L	99
22) 2,2-Dichloropropane	10.03	77	185522	22.07 ug/L	97
24) 1,2-Dichloroethane	10.77	62	131923	20.85 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	163179	21.92 ug/L	99
27) 1,1-Dichloropropene	11.14	75	190209	21.61 ug/L	99
28) Carbon tetrachloride	11.38	117	137119	22.56 ug/L	98
29) Benzene	11.44	78	494195	21.00 ug/L	100
30) Dibromomethane	12.16	93	57078	20.50 ug/L	99
31) 1,2-Dichloropropane	12.20	63	134693	20.49 ug/L	99
32) Trichloroethene	12.25	95	124260	21.12 ug/L	99
33) Bromodichloromethane	12.32	83	146515	21.21 ug/L	99
34) 2-Chlorovinylethylether	12.85	63	32154	26.56 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	174563	20.82 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	73258	21.33 ug/L	98
37) trans-1,3-Dichloropropene	13.72	75	134145	20.73 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	64723	20.80 ug/L	98
40) Toluene	14.21	92	280289	20.95 ug/L	100
42) 1,3-Dichloropropane	14.27	76	130749	20.27 ug/L	97

(#) = qualifier out of range (m) = manual integration
03221102.D 031711.M Tue Mar 22 12:23:04 2011

LC 3/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D Vial: 1
Acq On : 22 Mar 2011 6:58 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:22 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	48016	22.33 ug/L #	95
44) Dibromochloromethane	14.64	129	79348	20.46 ug/L	99
45) 1,2-Dibromoethane	14.97	107	68544	21.17 ug/L	98
46) Tetrachloroethene	15.19	166	107256	20.98 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.01	131	88350	20.93 ug/L	95
48) Chlorobenzene	16.12	112	278995	20.83 ug/L	99
49) Ethylbenzene	16.37	91	531989	21.08 ug/L	100
50) m,p-Xylenes	16.63	106	189996	21.49 ug/L	98
51) Styrene	17.09	104	298392	22.26 ug/L	97
52) o-Xylene	17.19	106	177651	20.67 ug/L	100
55) Bromoform	16.81	173	40639	22.32 ug/L	100
56) 1,1,2,2-Tetrachloroethane	17.18	83	75679	20.56 ug/L	96
57) 1,2,3-Trichloropropane	17.37	110	17133	21.39 ug/L	96
58) Isopropylbenzene	17.69	105	445960	23.16 ug/L	99
59) Bromobenzene	18.04	156	99274	22.35 ug/L	99
60) n-Propylbenzene	18.29	91	632971	23.03 ug/L	100
61) 2-Chlorotoluene	18.44	91	362356	22.50 ug/L	100
62) 4-Chlorotoluene	18.54	91	359995	22.55 ug/L	99
63) 1,3,5-Trimethylbenzene	18.69	105	385893	23.19 ug/L	99
64) tert-Butylbenzene	19.08	119	328649	23.20 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	385130	23.03 ug/L	100
66) sec-Butylbenzene	19.38	105	558264	22.99 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	201609	22.27 ug/L	100
68) 1,4-Dichlorobenzene	19.56	146	200379	21.99 ug/L	99
69) p-Isopropyltoluene	19.60	119	438302	23.62 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	167826	21.32 ug/L	98
71) n-Butylbenzene	20.11	91	481225	23.30 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	9554	19.47 ug/L	84
73) 1,2,4-Trichlorobenzene	22.28	180	113985	22.42 ug/L	100
74) Naphthalene	22.62	128	138409	20.53 ug/L	100
75) Hexachlorobutadiene	22.68	225	76986	23.71 ug/L	97
76) 1,2,3-Trichlorobenzene	22.89	180	92238	22.25 ug/L	98

(#) = qualifier out of range (m) = manual integration
03221102.D 031711.M Tue Mar 22 12:23:04 2011

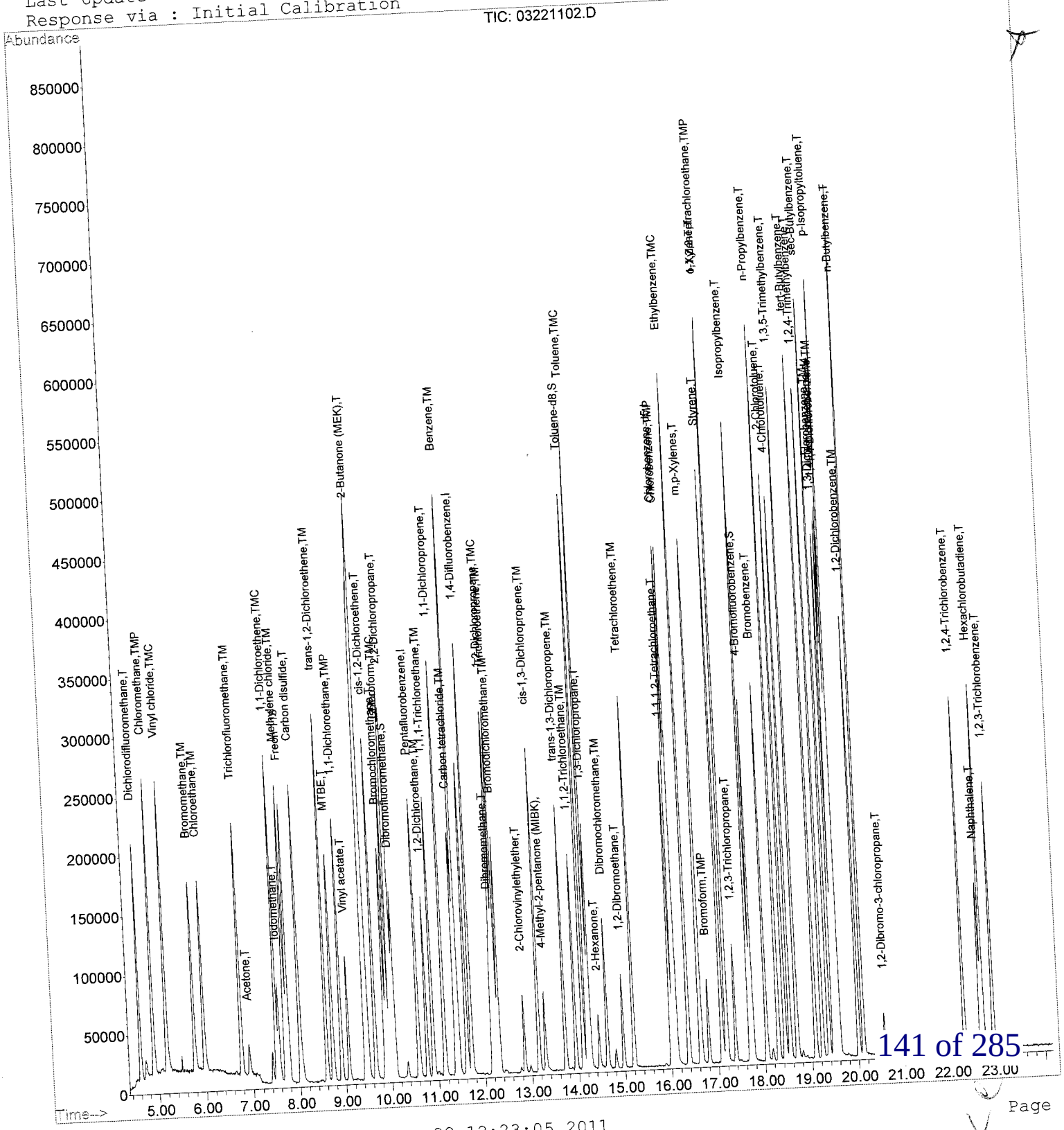
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D
Acq On : 22 Mar 2011 6:58 am
Sample : 25 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:22 2011

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03221102.D 031711.M Tue Mar 22 12:23:05 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D Vial: 1
Acq On : 22 Mar 2011 6:58 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

3/22/11

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	117	-0.01
2	T	Dichlorodifluoromethane	1.181	1.104	6.5	107	0.00
3	TMP	Chloromethane	1.953	1.747	10.5	105	0.00
4	TMC	Vinyl chloride	1.739	1.631	6.2	111	0.00
5	TM	Bromomethane	0.813	0.697	14.3	95	0.00
6	TM	Chloroethane	0.922	0.899	2.5	116	0.00
7	TM	Trichlorofluoromethane	1.209	1.133	6.3	102	0.00
8	T	Acetone	0.194	0.255	-31.4#	190	-0.01
9	T	Iodomethane	0.531	0.625	-17.7	123	0.00
10	TMC	1,1-Dichloroethene	0.705	0.595	15.6	103	0.00
11	TM	Methylene chloride	0.830	0.678	18.3	99	0.00
12		Freon 113	0.835	0.684	18.1	99	0.00
13	T	Carbon disulfide	2.509	2.519	-0.4	121	0.00
14	TM	trans-1,2-Dichloroethene	0.780	0.660	15.4	100	0.00
15	T	MTBE	1.333	1.099	17.6	99	0.00
16	TMP	1,1-Dichloroethane	1.628	1.345	17.4	98	0.00
17	T	Vinyl acetate	1.264	1.047	17.2	100	0.00
18	T	2-Butanone (MEK)	0.036	0.039#	-8.3	110	-0.01
19	T	cis-1,2-Dichloroethene	0.808	0.679	16.0	100	0.00
20	T	Bromochloromethane	0.296	0.256	13.5	104	0.00
21	TMC	Chloroform	1.343	1.113	17.1	98	0.00
22	T	2,2-Dichloropropane	1.089	0.961	11.8	103	0.00
23	S	Dibromofluoromethane	0.629	0.570	9.4	106	0.00
24	TM	1,2-Dichloroethane	0.820	0.684	16.6	97	-0.01
25	TM	1,1,1-Trichloroethane	0.964	0.846	12.2	101	0.00
26	I	1,4-Difluorobenzene	1.000	1.000	0.0	118	0.00
27	T	1,1-Dichloropropene	0.640	0.553	13.6	99	0.00
28	TM	Carbon tetrachloride	0.442	0.399	9.7	103	0.00
29	TM	Benzene	1.711	1.437	16.0	101	0.00
30	T	Dibromomethane	0.202	0.166	17.8	98	0.00
31	TMC	1,2-Dichloropropane	0.478	0.392	18.0	96	0.00
32	TM	Trichloroethene	0.428	0.361	15.7	100	-0.01
33	TM	Bromodichloromethane	0.502	0.426	15.1	97	0.00
34	T	2-Chlorovinylethylether	0.101	0.094#	6.9	111	0.00
35	TM	cis-1,3-Dichloropropene	0.610	0.508	16.7	95	0.00
36		4-Methyl-2-pentanone (MIBK)	0.250	0.213	14.8	102	0.00
37	TM	trans-1,3-Dichloropropene	0.471	0.390	17.2	95	0.00
38	TM	1,1,2-Trichloroethane	0.226	0.188	16.8	98	0.00
39	S	Toluene-d8	1.261	1.129	10.5	108	-0.01
40	TMC	Toluene	0.973	0.815	16.2	99	0.00
41	I	Chlorobenzene-d5	1.000	1.000	0.0	118	0.00
42	T	1,3-Dichloropropane	0.566	0.459	18.9	93	0.00
43	T	2-Hexanone	0.189	0.168	11.1	108	0.00
44	TM	Dibromochloromethane	0.340	0.278	18.2	97	0.00
45	T	1,2-Dibromoethane	0.284	0.240	15.5	97	0.00
46	TM	Tetrachloroethene	0.448	0.376	16.1	98	-0.01
47	T	1,1,1,2-Tetrachloroethane	0.370	0.310	16.2	101	0.00
48	TMP	Chlorobenzene	1.175	0.979	16.7	98	0.00

(#) = Out of Range
03221102.D 031711.M Tue Mar 22 12:23:08 2011

LC 3/22/11

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D Vial: 1
Acq On : 22 Mar 2011 6:58 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	TMC	Ethylbenzene	2.214	1.866	15.7	99	0.00
50	T	m,p-Xylenes	0.775	0.667	13.9	102	0.00
51	T	Styrene	1.176	1.047	11.0	101	0.00
52	T	o-Xylene	0.754	0.623	17.4	100	0.00
53	S	4-Bromofluorobenzene	0.548	0.477	13.0	106	0.00
54		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
55	TMP	Bromoform	0.362	0.323	10.8	96	0.00
56	TMP	1,1,2,2-Tetrachloroethane	0.732	0.602	17.8	92	0.00
57	T	1,2,3-Trichloropropane	0.159	0.136	14.5	91	0.00
58	T	Isopropylbenzene	3.828	3.547	7.3	100	0.00
59	T	Bromobenzene	0.883	0.790	10.5	94	0.00
60	T	n-Propylbenzene	5.465	5.034	7.9	100	0.00
61	T	2-Chlorotoluene	3.202	2.882	10.0	99	0.00
62	T	4-Chlorotoluene	3.174	2.863	9.8	98	0.00
63	T	1,3,5-Trimethylbenzene	3.308	3.069	7.2	101	0.00
64	T	tert-Butylbenzene	2.816	2.614	7.2	101	0.00
65	T	1,2,4-Trimethylbenzene	3.325	3.063	7.9	101	0.00
66	T	sec-Butylbenzene	4.827	4.440	8.0	100	0.00
67	TM	1,3-Dichlorobenzene	1.800	1.603	10.9	98	0.00
68	TM	1,4-Dichlorobenzene	1.812	1.594	12.0	99	0.00
69	T	p-Isopropyltoluene	3.690	3.486	5.5	101	0.00
70	TM	1,2-Dichlorobenzene	1.565	1.335	14.7	94	0.00
71	T	n-Butylbenzene	4.107	3.827	6.8	99	0.00
72	T	1,2-Dibromo-3-chloropropane	0.098	0.076#	22.4	84	0.00
73	T	1,2,4-Trichlorobenzene	1.011	0.907	10.3	93	0.00
74	T	Naphthalene	1.341	1.101	17.9	84	0.00
75	T	Hexachlorobutadiene	0.646	0.612	5.3	100	0.00
76	T	1,2,3-Trichlorobenzene	0.824	0.734	10.9	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03221102.D 031711.M Tue Mar 22 12:23:09 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221103.D Vial: 2
Acq On : 22 Mar 2011 7:29 am Operator: LC
Sample : -BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:23 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	191208	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	335903	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	277118	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131814	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	111828	23.24 ug/L	0.00
Spiked Amount 25.000			Recovery = 92.96%		
39) Toluene-d8	14.11	98	382232	22.56 ug/L	0.00
Spiked Amount 25.000			Recovery = 90.24%		
53) 4-Bromofluorobenzene	17.74	95	134823	22.20 ug/L	0.00
Spiked Amount 25.000			Recovery = 88.80%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	185855	20.57 ug/L	99
3) Chloromethane	4.89	50	261130	17.48 ug/L	98
4) Vinyl chloride	5.18	62	278784	20.97 ug/L	97
5) Bromomethane	5.77	94	143775	20.81 ug/L	97
6) Chloroethane	5.98	64	150093	21.29 ug/L	98
7) Trichlorofluoromethane	6.77	101	219743	23.77 ug/L	99
8) Acetone	6.93	43	34192	30.55 ug/L	99
9) Iodomethane	7.56	142	163900	38.27 ug/L	98
10) 1,1-Dichloroethene	7.50	96	138487	25.68 ug/L	97
11) Methylene chloride	7.70	84	156896	24.73 ug/L	98
12) Freon 113	7.77	101	156619	24.53 ug/L	99
13) Carbon disulfide	8.02	76	556252	28.99 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	125918	21.10 ug/L	98
15) MTBE	8.73	73	204242	20.03 ug/L	99
16) 1,1-Dichloroethane	8.91	63	255867	20.55 ug/L	100
17) Vinyl acetate	9.07	43	254923	26.37 ug/L	99
18) 2-Butanone (MEK)	9.46	72	7665	25.64 ug/L	39
19) cis-1,2-Dichloroethene	9.65	96	122782	19.87 ug/L	98
20) Bromochloromethane	9.87	128	47331	20.93 ug/L	98
21) Chloroform	9.93	83	207118	20.17 ug/L	99
22) 2,2-Dichloropropane	10.03	77	175307	21.05 ug/L	99
24) 1,2-Dichloroethane	10.77	62	130161	20.76 ug/L	98
25) 1,1,1-Trichloroethane	10.90	97	154419	20.94 ug/L	100
27) 1,1-Dichloropropene	11.14	75	180517	20.99 ug/L	99
28) Carbon tetrachloride	11.38	117	127362	21.45 ug/L	100
29) Benzene	11.43	78	463066	20.14 ug/L	100
30) Dibromomethane	12.16	93	57299	21.07 ug/L	97
31) 1,2-Dichloropropane	12.21	63	133105	20.73 ug/L	100
32) Trichloroethene	12.26	95	119163	20.73 ug/L	99
33) Bromodichloromethane	12.32	83	143092	21.20 ug/L	99
34) 2-Chlorovinylethylether	12.85	63	38405	32.81 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	175276	21.40 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	78742	23.47 ug/L	100
37) trans-1,3-Dichloropropene	13.72	75	141343	22.36 ug/L	98
38) 1,1,2-Trichloroethane	13.94	83	64276	21.15 ug/L	99
40) Toluene	14.20	92	264288	20.22 ug/L	99
42) 1,3-Dichloropropane	14.26	76	130902	20.88 ug/L	97

(#) = qualifier out of range (m) = manual integration
03221103.D 031711.M Tue Mar 22 12:23:46 2011

LC 3/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221103.D
Acq On : 22 Mar 2011 7:29 am
Sample : -BS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011

Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

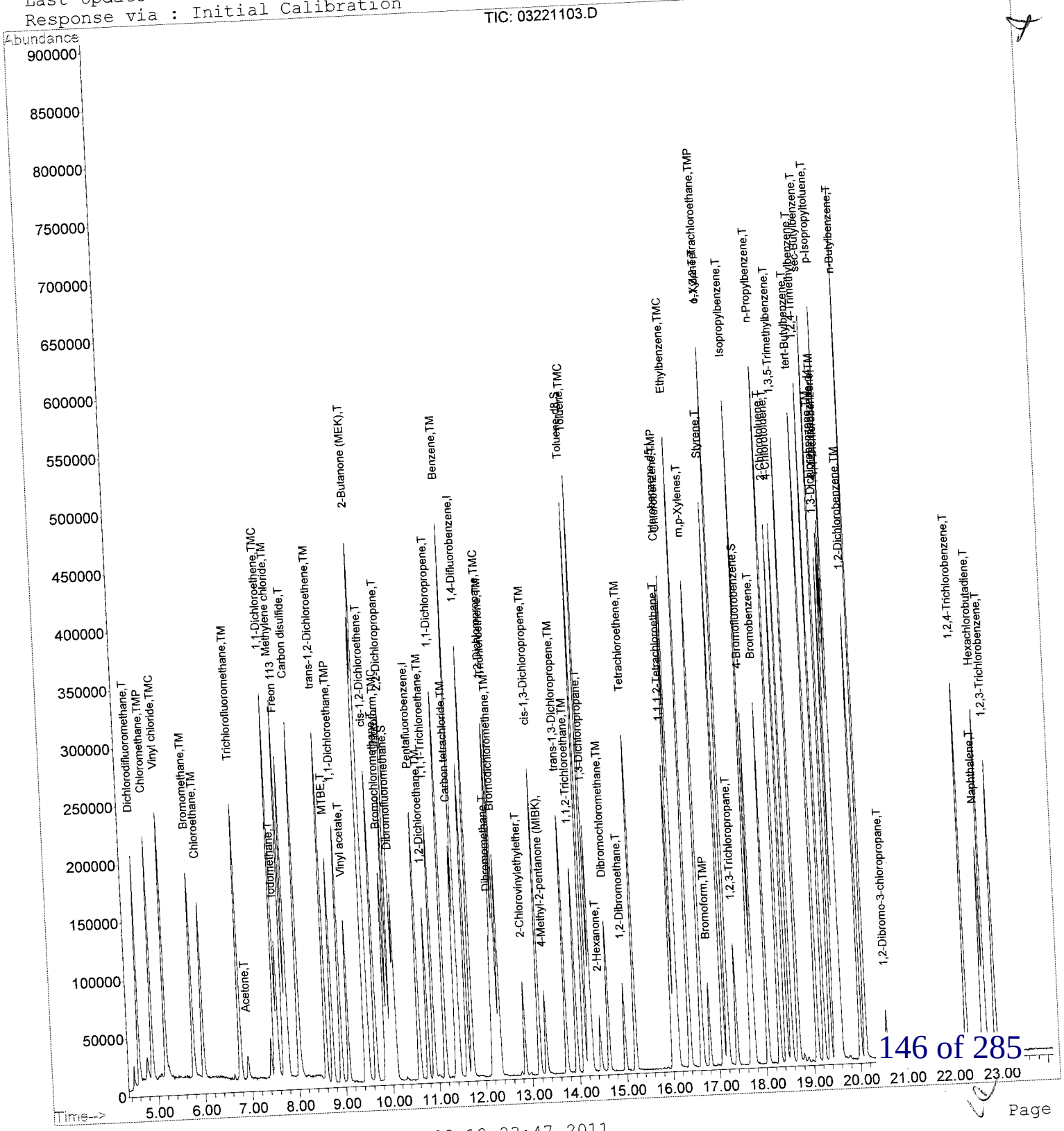
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	51395	24.58 ug/L #	96
44) Dibromochloromethane	14.64	129	81791	21.69 ug/L	99
45) 1,2-Dibromoethane	14.97	107	67085	21.31 ug/L	99
46) Tetrachloroethene	15.20	166	103121	20.75 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.00	131	85361	20.80 ug/L	97
48) Chlorobenzene	16.11	112	269306	20.68 ug/L	99
49) Ethylbenzene	16.37	91	507210	20.67 ug/L	100
50) m,p-Xylenes	16.63	106	178224	20.74 ug/L	100
51) Styrene	17.08	104	281281	21.58 ug/L	100
52) o-Xylene	17.19	106	169756	20.32 ug/L	97
55) Bromoform	16.81	173	42245	22.13 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	82776	21.45 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	18263	21.75 ug/L	100
58) Isopropylbenzene	17.68	105	462333	22.91 ug/L	99
59) Bromobenzene	18.05	156	98403	21.13 ug/L	100
60) n-Propylbenzene	18.29	91	627134	21.76 ug/L	100
61) 2-Chlorotoluene	18.44	91	344737	20.42 ug/L	98
62) 4-Chlorotoluene	18.55	91	357127	21.34 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	373785	21.43 ug/L	100
64) tert-Butylbenzene	19.09	119	312181	21.02 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	384657	21.94 ug/L	100
66) sec-Butylbenzene	19.37	105	534899	21.02 ug/L	99
67) 1,3-Dichlorobenzene	19.47	146	198414	20.91 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	199251	20.86 ug/L	99
69) p-Isopropyltoluene	19.60	119	426160	21.91 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	171672	20.80 ug/L	99
71) n-Butylbenzene	20.11	91	477436	22.05 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.57	157	11019	21.42 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	126767	23.78 ug/L	100
74) Naphthalene	22.62	128	169482	23.98 ug/L	100
75) Hexachlorobutadiene	22.68	225	74923	22.01 ug/L	99
76) 1,2,3-Trichlorobenzene	22.89	180	103262	23.76 ug/L	98

(#) = qualifier out of range (m) = manual integration
03221103.D 031711.M Tue Mar 22 12:23:47 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221103.D Vial: 2
Acq On : 22 Mar 2011 7:29 am Operator: LC
Sample : -BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03221103.D 031711.M Tue Mar 22 12:23:47 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221104.D Vial: 3
Acq On : 22 Mar 2011 8:00 am Operator: LC
Sample : -BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:23 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193281	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	333677	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.06	117	278307	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	127803	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	111706	22.97 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.88%	
39) Toluene-d8	14.11	98	377394	22.43 ug/L	0.00
Spiked Amount 25.000			Recovery =	89.72%	
53) 4-Bromofluorobenzene	17.74	95	135668	22.24 ug/L	0.00
Spiked Amount 25.000			Recovery =	88.96%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	175198	19.19 ug/L	97
3) Chloromethane	4.89	50	249111	16.50 ug/L	99
4) Vinyl chloride	5.17	62	258846	19.26 ug/L	100
5) Bromomethane	5.77	94	127292	18.26 ug/L	100
6) Chloroethane	5.97	64	141552	19.86 ug/L	96
7) Trichlorofluoromethane	6.77	101	211288	22.61 ug/L	99
8) Acetone	6.93	43	32363	28.36 ug/L	100
9) Iodomethane	7.56	142	107319	24.84 ug/L	100
10) 1,1-Dichloroethene	7.51	96	109072	20.01 ug/L	99
11) Methylene chloride	7.70	84	127679	19.91 ug/L	96
12) Freon 113	7.77	101	124317	19.26 ug/L	98
13) Carbon disulfide	8.02	76	455884	23.50 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	122191	20.26 ug/L	99
15) MTBE	8.73	73	207196	20.10 ug/L	99
16) 1,1-Dichloroethane	8.91	63	251637	20.00 ug/L	100
17) Vinyl acetate	9.07	43	255285	26.12 ug/L	100
18) 2-Butanone (MEK)	9.47	72	7029	23.34 ug/L	54
19) cis-1,2-Dichloroethene	9.65	96	121582	19.46 ug/L	98
20) Bromochloromethane	9.86	128	47600	20.82 ug/L	96
21) Chloroform	9.92	83	203645	19.61 ug/L	100
22) 2,2-Dichloropropane	10.03	77	171151	20.33 ug/L	99
24) 1,2-Dichloroethane	10.77	62	127678	20.15 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	154276	20.69 ug/L	98
27) 1,1-Dichloropropene	11.14	75	178405	20.89 ug/L	100
28) Carbon tetrachloride	11.38	117	125187	21.23 ug/L	99
29) Benzene	11.43	78	456385	19.99 ug/L	99
30) Dibromomethane	12.16	93	58620	21.70 ug/L	98
31) 1,2-Dichloropropane	12.20	63	133665	20.96 ug/L	100
32) Trichloroethene	12.26	95	115085	20.15 ug/L	99
33) Bromodichloromethane	12.32	83	140890	21.02 ug/L	99
34) 2-Chlorovinylethylether	12.85	63	32867	28.05 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	172517	21.20 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	77918	23.38 ug/L	99
37) trans-1,3-Dichloropropene	13.72	75	136555	21.74 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	62074	20.56 ug/L	98
40) Toluene	14.20	92	260428	20.06 ug/L	99
42) 1,3-Dichloropropane	14.26	76	131189	20.83 ug/L	96

(#) = qualifier out of range (m) = manual integration
03221104.D 031711.M Tue Mar 22 12:24:02 2011

LC 3/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221104.D
Acq On : 22 Mar 2011 8:00 am
Sample : -BSD1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

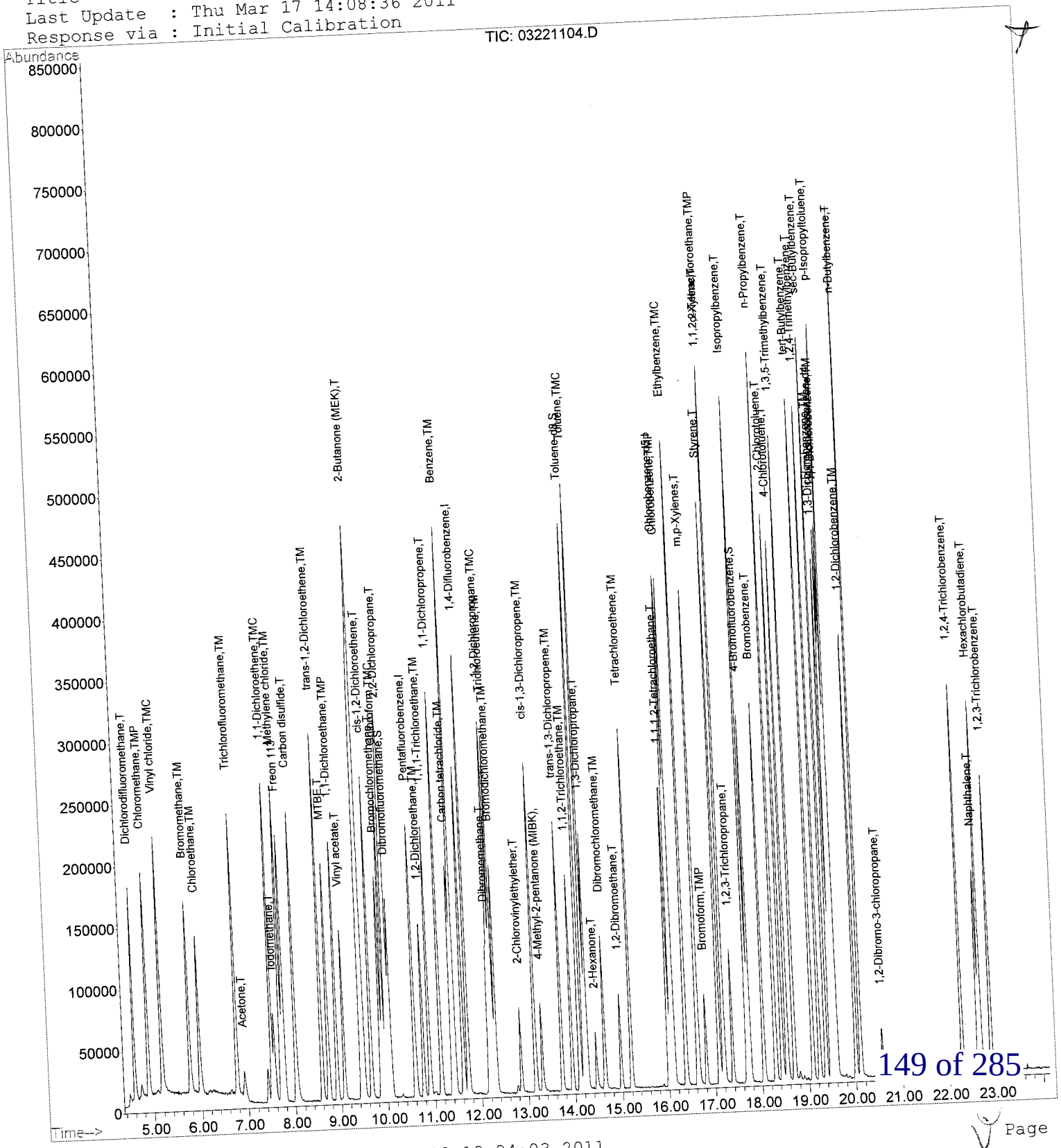
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	48696	23.19 ug/L #	93
44) Dibromochloromethane	14.64	129	78703	20.78 ug/L	99
45) 1,2-Dibromoethane	14.97	107	65715	20.79 ug/L	96
46) Tetrachloroethene	15.20	166	101150	20.26 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	84360	20.47 ug/L	97
48) Chlorobenzene	16.11	112	262002	20.03 ug/L	100
49) Ethylbenzene	16.37	91	493385	20.02 ug/L	100
50) m,p-Xylenes	16.63	106	173014	20.05 ug/L	99
51) Styrene	17.09	104	279919	21.38 ug/L	98
52) o-Xylene	17.19	106	164451	19.60 ug/L	99
55) Bromoform	16.81	173	42463	22.95 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.17	83	81875	21.88 ug/L	98
57) 1,2,3-Trichloropropane	17.37	110	18389	22.59 ug/L	96
58) Isopropylbenzene	17.69	105	455666	23.28 ug/L	100
59) Bromobenzene	18.04	156	99317	22.00 ug/L	99
60) n-Propylbenzene	18.29	91	609145	21.80 ug/L	100
61) 2-Chlorotoluene	18.44	91	336952	20.59 ug/L	99
62) 4-Chlorotoluene	18.55	91	347985	21.45 ug/L	99
63) 1,3,5-Trimethylbenzene	18.69	105	363351	21.49 ug/L	99
64) tert-Butylbenzene	19.08	119	306891	21.32 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	368260	21.66 ug/L	99
66) sec-Butylbenzene	19.38	105	518229	21.00 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	195249	21.22 ug/L	100
68) 1,4-Dichlorobenzene	19.56	146	197785	21.35 ug/L	99
69) p-Isopropyltoluene	19.60	119	413056	21.90 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	169697	21.21 ug/L	98
71) n-Butylbenzene	20.11	91	461412	21.98 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	11169	22.40 ug/L	94
73) 1,2,4-Trichlorobenzene	22.27	180	125162	24.22 ug/L	98
74) Naphthalene	22.62	128	164549	24.01 ug/L	100
75) Hexachlorobutadiene	22.68	225	74058	22.44 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	98292	23.33 ug/L	99

(#) = qualifier out of range (m) = manual integration
03221104.D 031711.M Tue Mar 22 12:24:02 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221104.D Vial: 3
Acq On : 22 Mar 2011 8:00 am Operator: LC
Sample : -BSD1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03221104.D 031711.M Tue Mar 22 12:24:03 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221105.D
Acq On : 22 Mar 2011 8:31 am
Sample : -BLK1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:24 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.59	168	191048	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.72	114	334286	25.00 ug/L	-0.01
41) Chlorobenzene-d5	16.07	117	277168	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.52	152	127354	25.00 ug/L	-0.01
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	109727	22.83 ug/L	-0.01
Spiked Amount 25.000			Recovery =	91.32%	
39) Toluene-d8	14.11	98	381083	22.60 ug/L	-0.01
Spiked Amount 25.000			Recovery =	90.40%	
53) 4-Bromofluorobenzene	17.74	95	133747	22.02 ug/L	-0.01
Spiked Amount 25.000			Recovery =	88.08%	

Target Compounds					Qvalue
5) Bromomethane	5.77	94	900	0.39 ug/L #	31
8) Acetone	6.98	43	1800	Below Cal #	48
9) Iodomethane	7.55	142	130	0.16 ug/L #	32
24) 1,2-Dichloroethane	10.59	62	985	0.16 ug/L #	1
73) 1,2,4-Trichlorobenzene	22.29	180	891	0.17 ug/L	87
74) Naphthalene	22.62	128	8874	1.30 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	993	0.24 ug/L	89

(#) = qualifier out of range (m) = manual integration
03221105.D 031711.M Tue Mar 22 12:24:24 2011

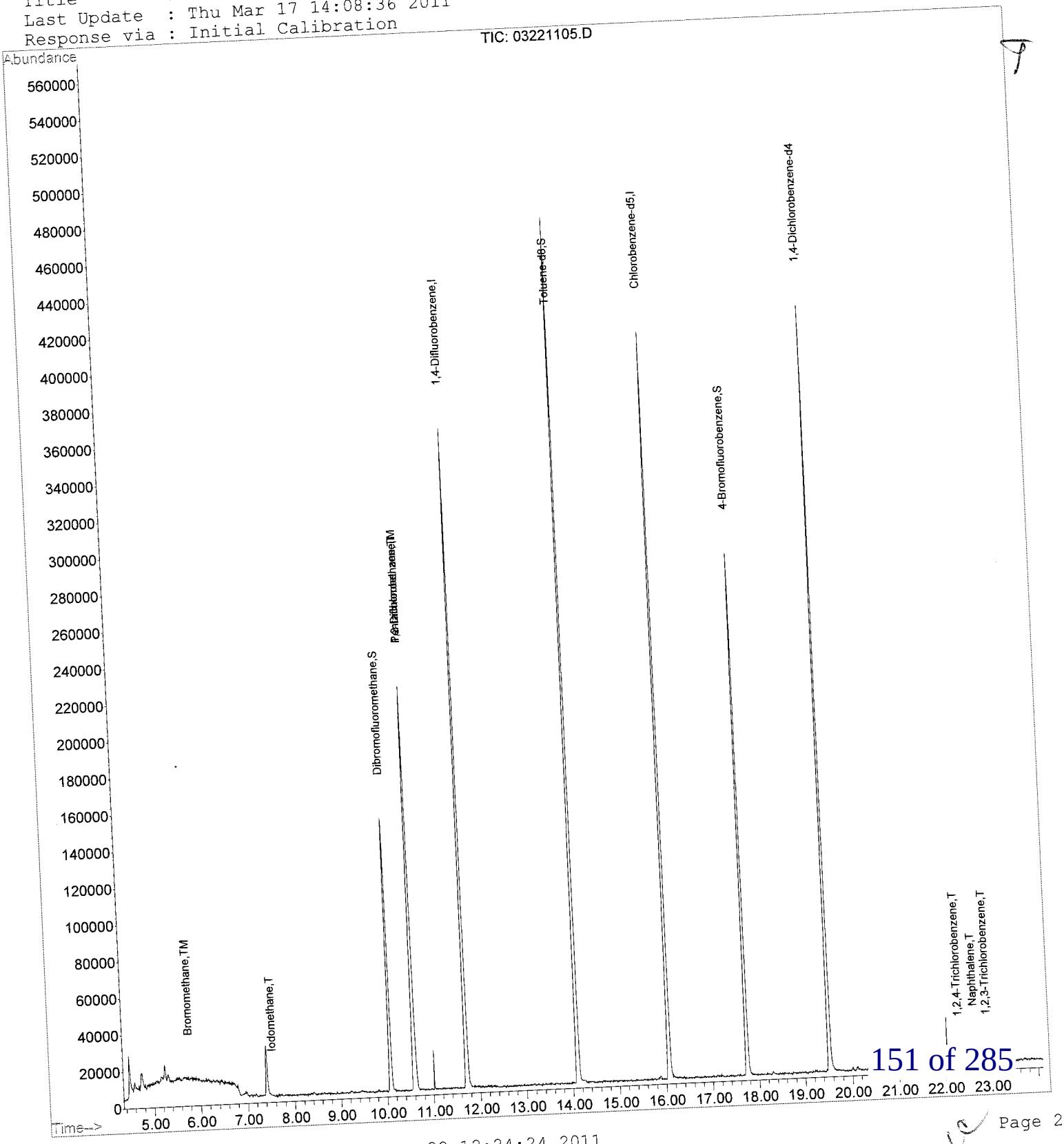
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221105.D
Acq On : 22 Mar 2011 8:31 am
Sample : -BLK1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:24 2011

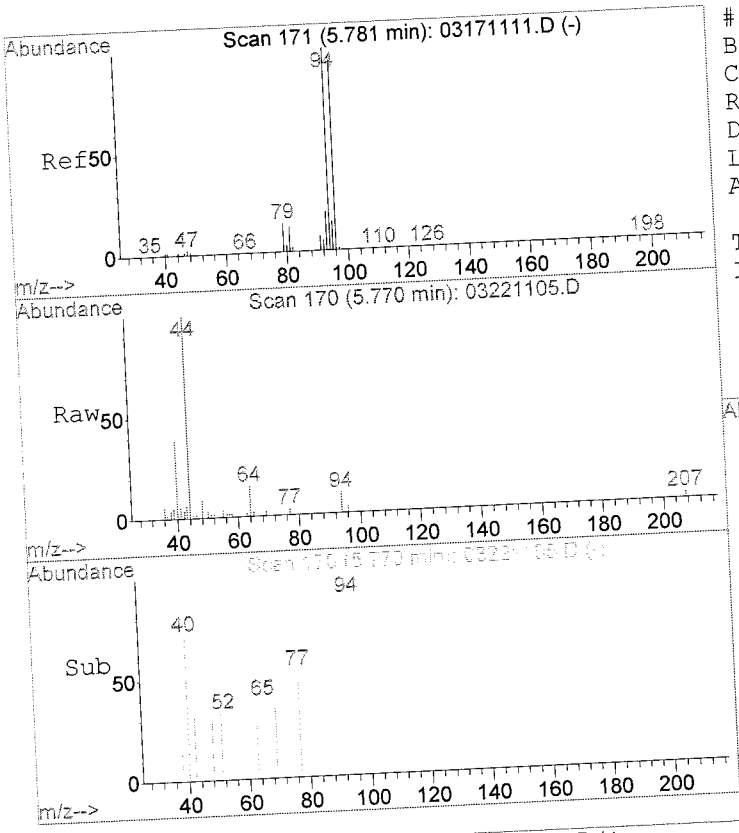
Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



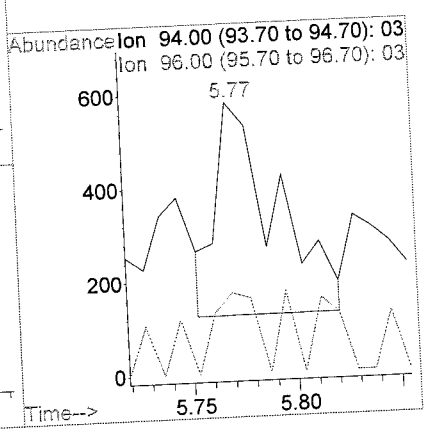
03221105.D 031711.M Tue Mar 22 12:24:24 2011

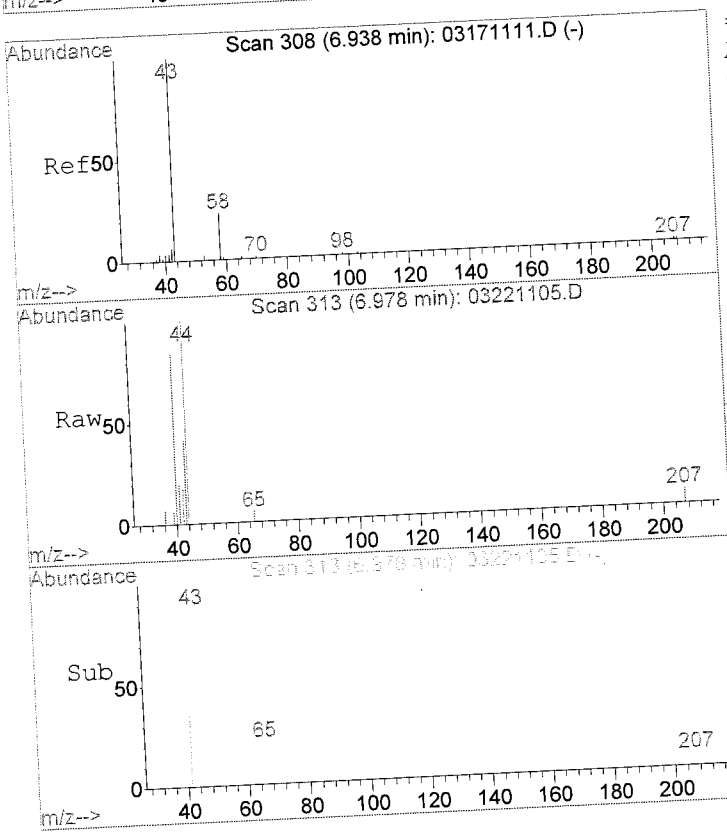


#5
Bromomethane
Concen: 0.39 ug/L
RT: 5.77 min Scan# 170
Delta R.T. -0.01 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion: 94 Resp: 900

Ion	Ratio	Lower	Upper
94	100		
96	26.1	74.0	111.0#

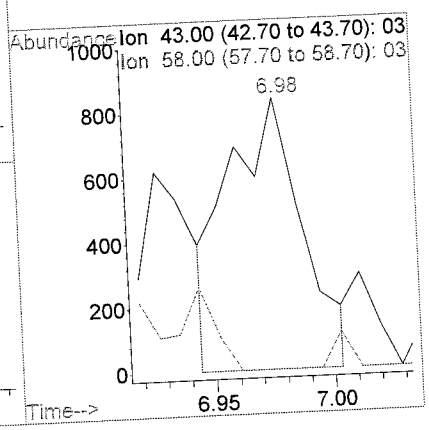




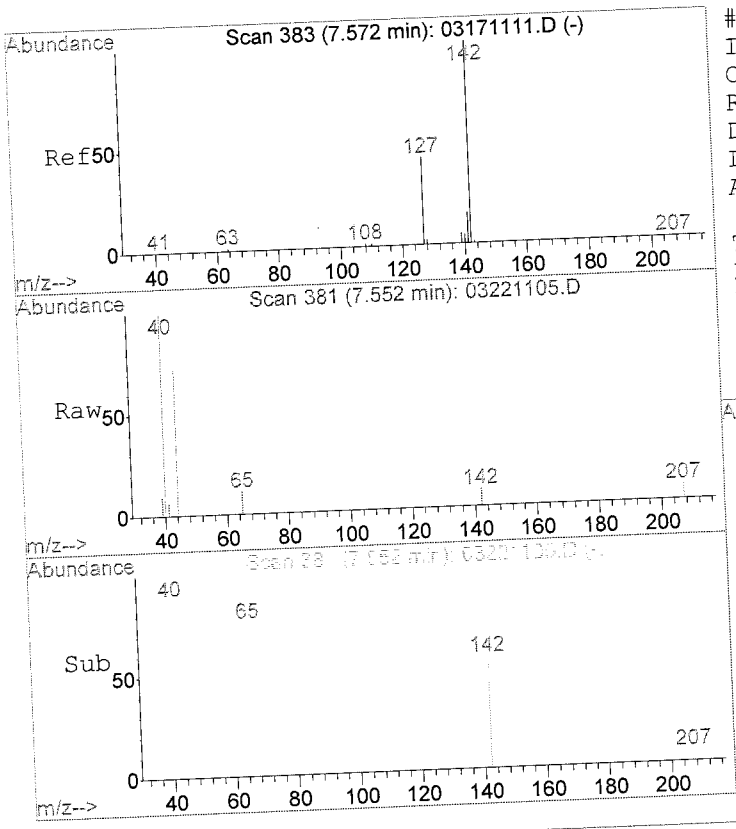
#8
Acetone
Concen: Below Cal
RT: 6.98 min Scan# 313
Delta R.T. 0.04 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion: 43 Resp: 1800

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.2	31.8#



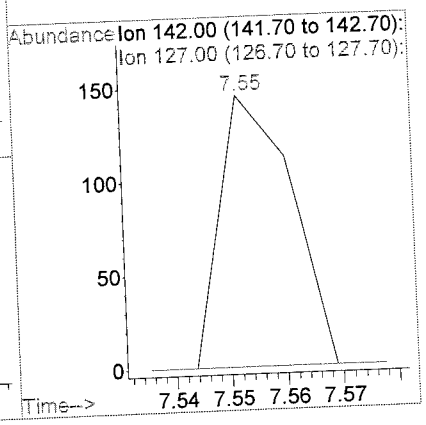
03221105.D 031711.M Tue Mar 22 12:24:25 2011

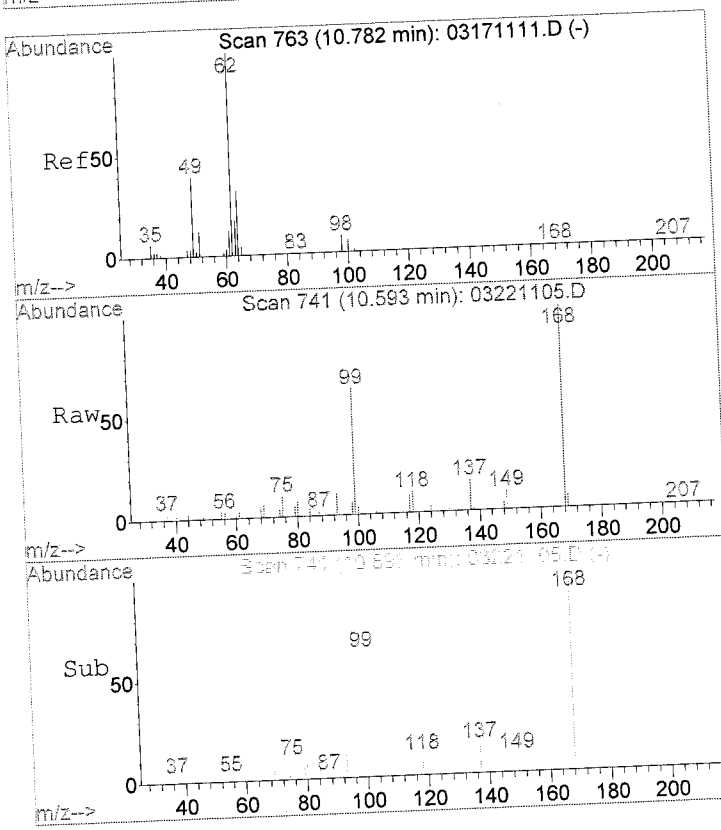


#9
Iodomethane
Concen: 0.16 ug/L
RT: 7.55 min Scan# 381
Delta R.T. -0.02 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:142 Resp: 130

Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.5	53.3#

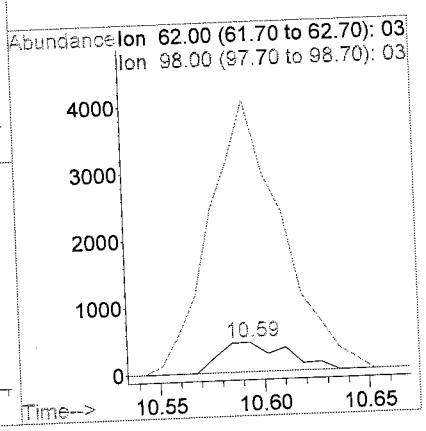


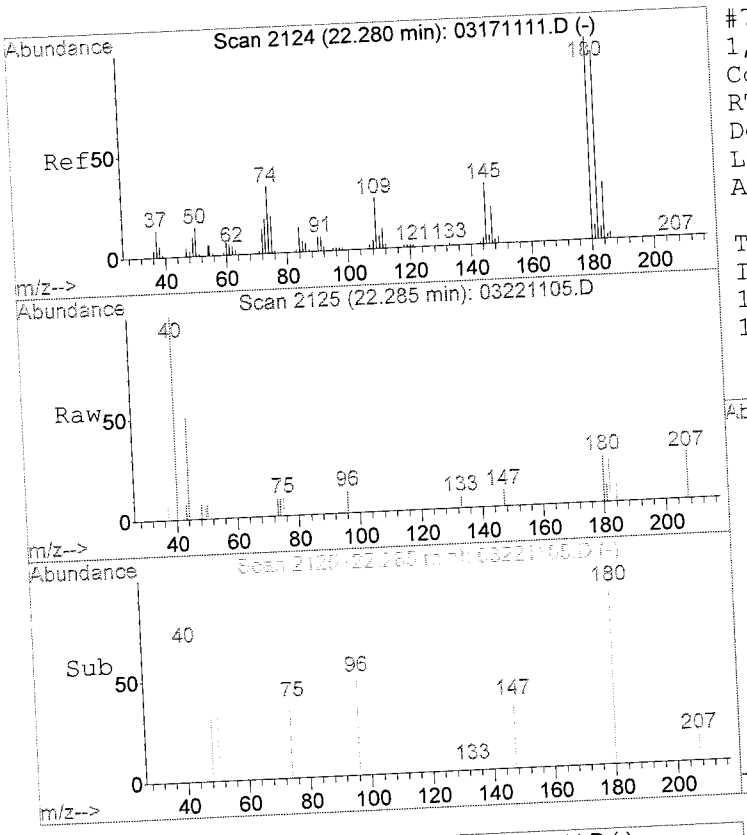


#24
1,2-Dichloroethane
Concen: 0.16 ug/L
RT: 10.59 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion: 62 Resp: 985

Ion	Ratio	Lower	Upper
62	100		
98	988.6	7.0	10.6#

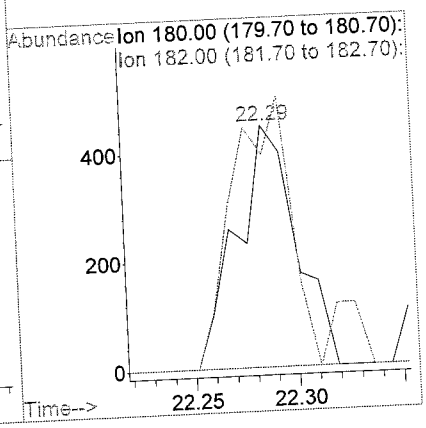


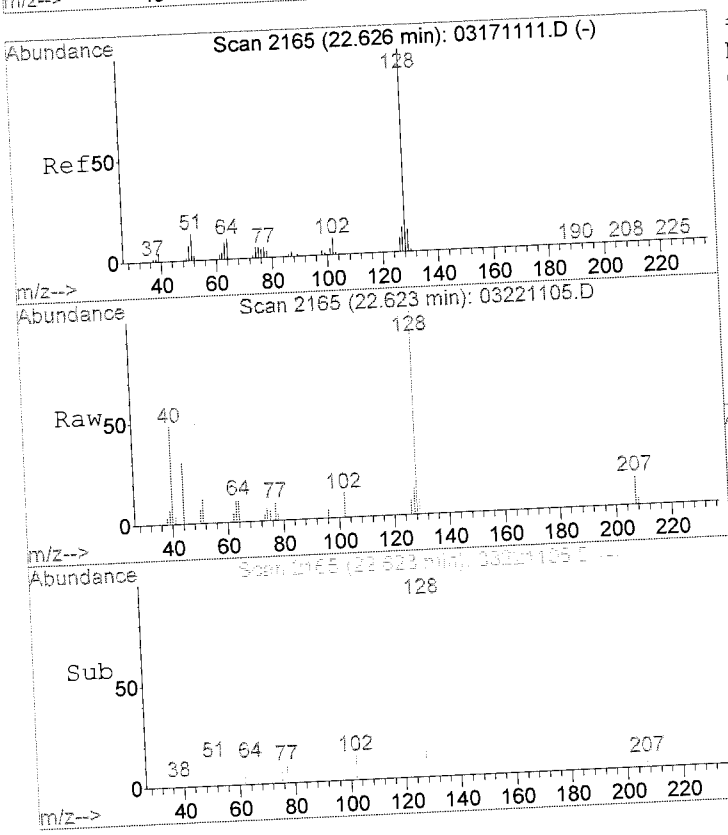


#73
1,2,4-Trichlorobenzene
Concen: 0.17 ug/L
RT: 22.29 min Scan# 2125
Delta R.T. 0.01 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:180 Resp: 891

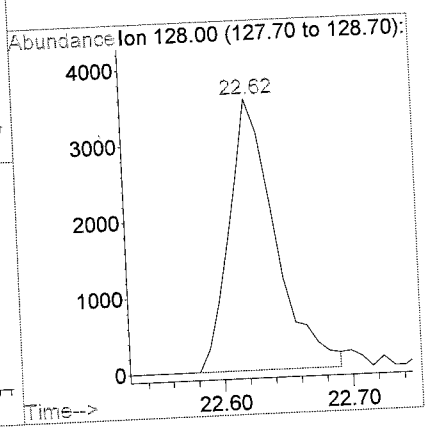
Ion	Ratio	Lower	Upper
180	100		
182	108.0	76.5	114.7

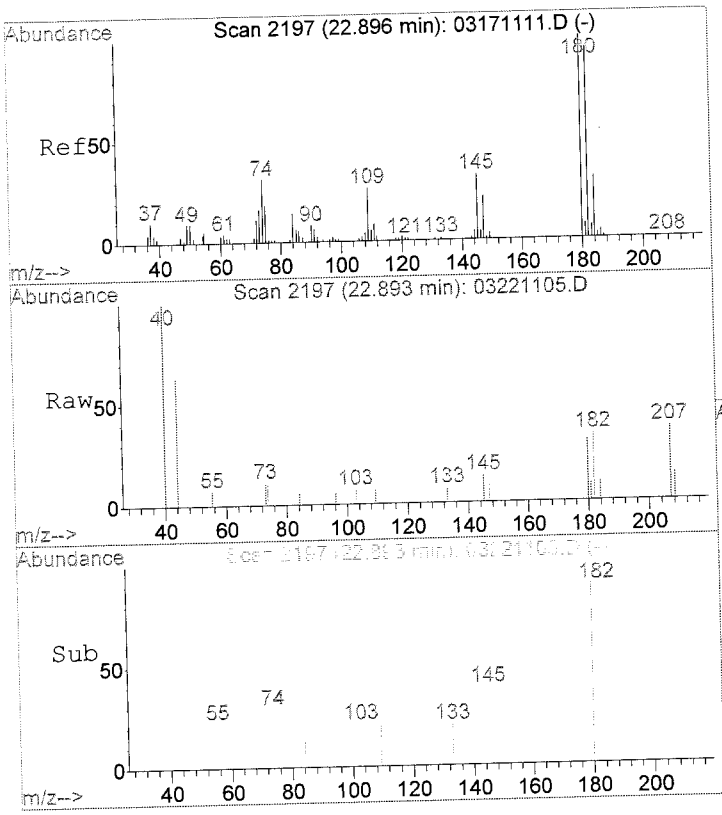




#74
Naphthalene
Concen: 1.30 ug/L
RT: 22.62 min Scan# 2165
Delta R.T. -0.00 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:128 Resp: 8874

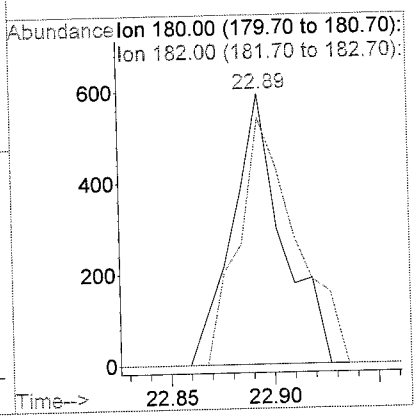




#76
1,2,3-Trichlorobenzene
Concen: 0.24 ug/L
RT: 22.89 min Scan# 2197
Delta R.T. -0.00 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:180 Resp: 993

Ion	Ratio	Lower	Upper
180	100		
182	105.3	76.1	114.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221108.D Vial: 7
Acq On : 22 Mar 2011 10:03 am Operator: LC
Sample : PUC0982-02 Inst : GCMS7
Misc : SOURCE Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:25 2011

3/22/11

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	188150	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	330789	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	278096	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	127366	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	109514	23.13 ug/L	0.00
Spiked Amount 25.000			Recovery =	92.52%	
39) Toluene-d8	14.11	98	376684	22.58 ug/L	0.00
Spiked Amount 25.000			Recovery =	90.32%	
53) 4-Bromofluorobenzene	17.74	95	130058	21.34 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.36%	

Target Compounds					Qvalue
5) Bromomethane	5.81	94	106	0.27 ug/L	NSM 99
7) Trichlorofluoromethane	6.78	101	1147	0.13 ug/L	LRL/NT 95 J
8) Acetone	6.94	43	1256	~~Below Cal~~	# 67
10) 1,1-Dichloroethene	7.50	96	14372	2.71 ug/L	92
15) MTBE	8.74	73	1363	0.14 ug/L	#LRL/NT 81 J
16) 1,1-Dichloroethane	8.91	63	23225	1.90 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	11914	1.96 ug/L	99
21) Chloroform	9.93	83	14603	1.44 ug/L	96
32) Trichloroethene	12.26	95	44876	7.93 ug/L	99
42) 1,3-Dichloropropane	14.11	76	4370	0.69 ug/L	#NRT 72
46) Tetrachloroethene	15.21	166	2169	0.43 ug/L	LRL/NT 90 J

LC 3/22/11

(#) = qualifier out of range (m) = manual integration
03221108.D 031711.M Tue Mar 22 12:26:05 2011

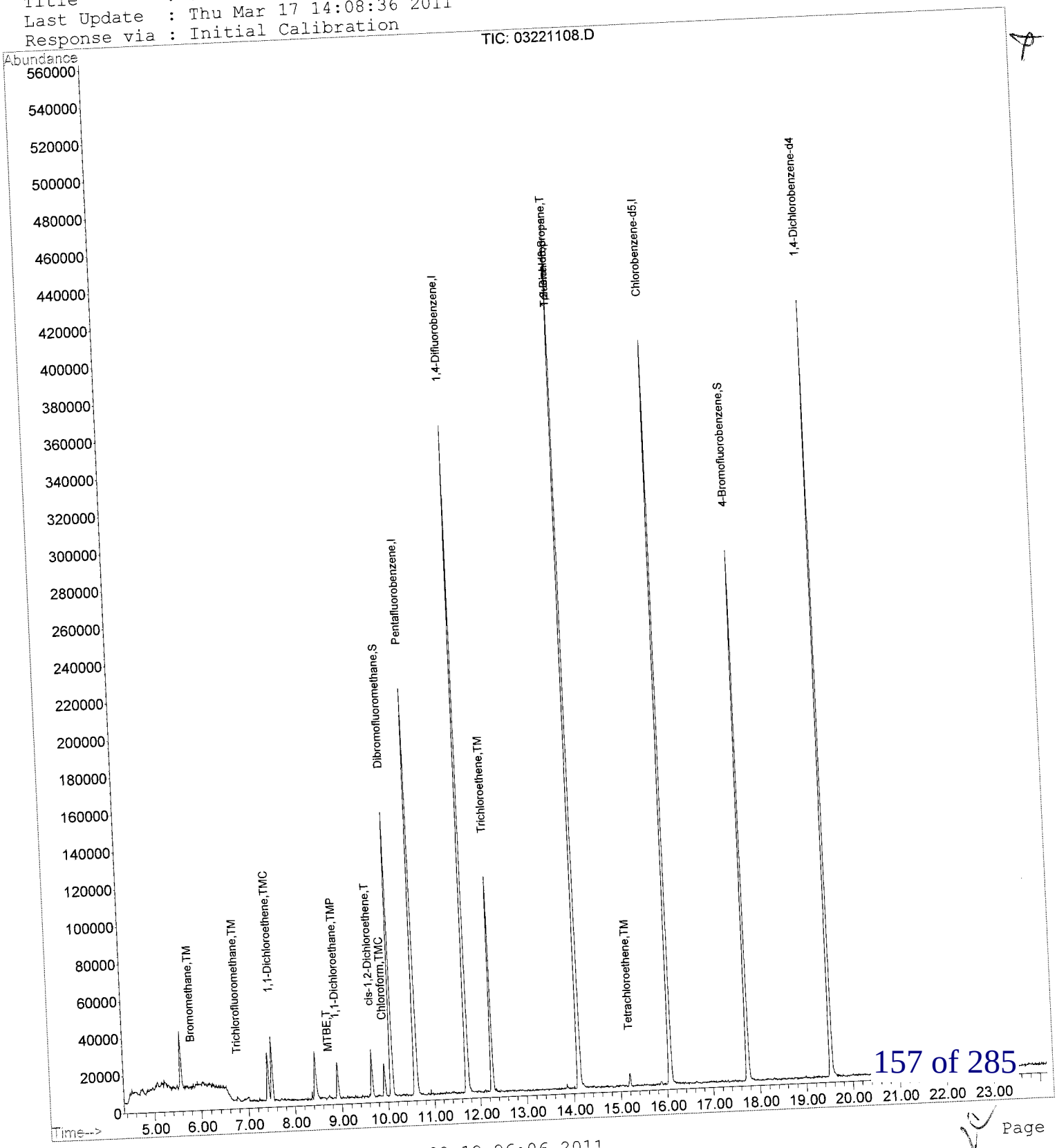
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221108.D
Acq On : 22 Mar 2011 10:03 am
Sample : PUC0982-02
Misc : SOURCE
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:25 2011

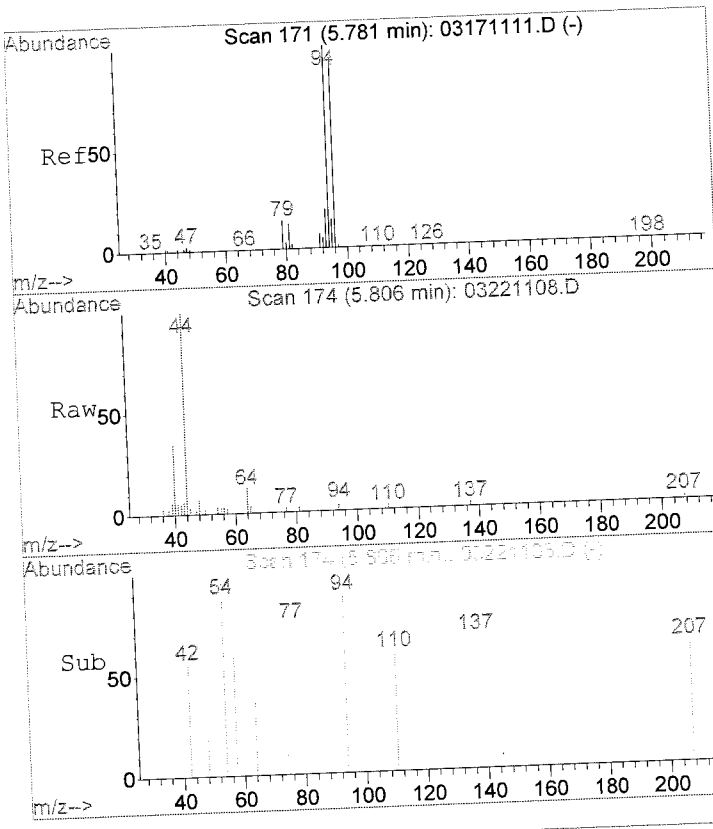
Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



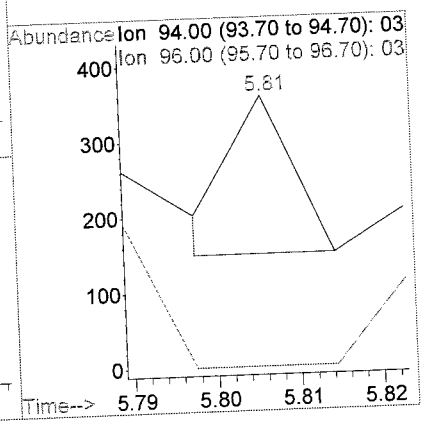
03221108.D 031711.M Tue Mar 22 12:26:06 2011

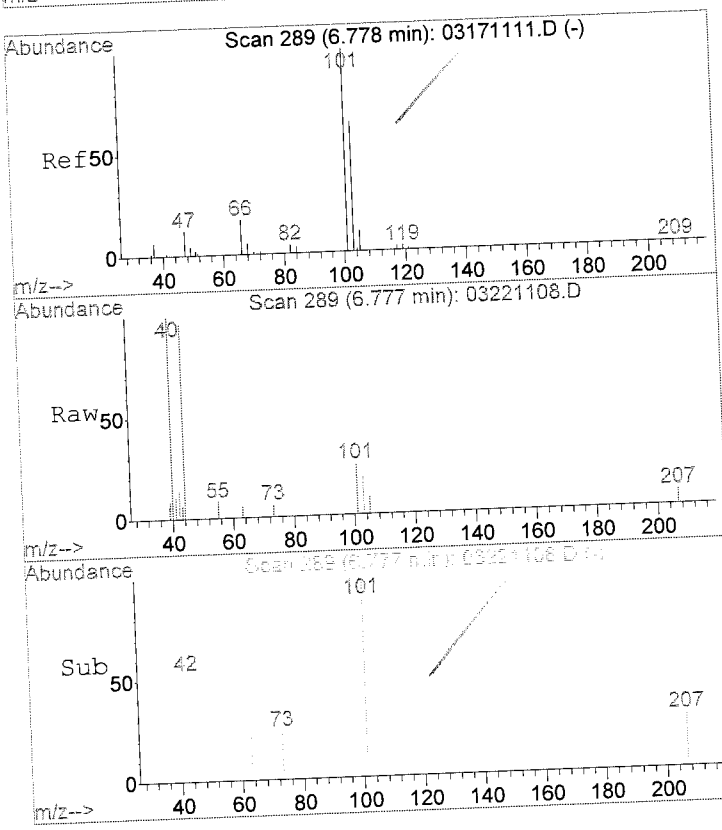


#5
Bromomethane
Concen: 0.27 ug/L
RT: 5.81 min Scan# 174
Delta R.T. 0.03 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 94 Resp: 106

Ion	Ratio	Lower	Upper
94	100		
96	91.5	74.0	111.0

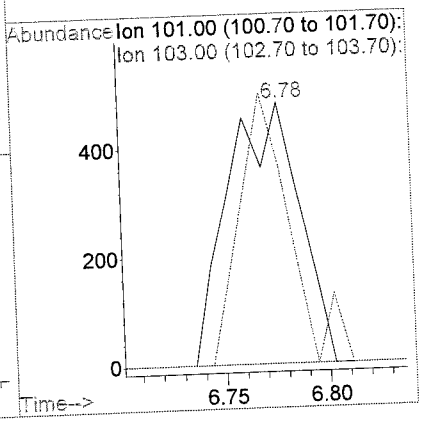




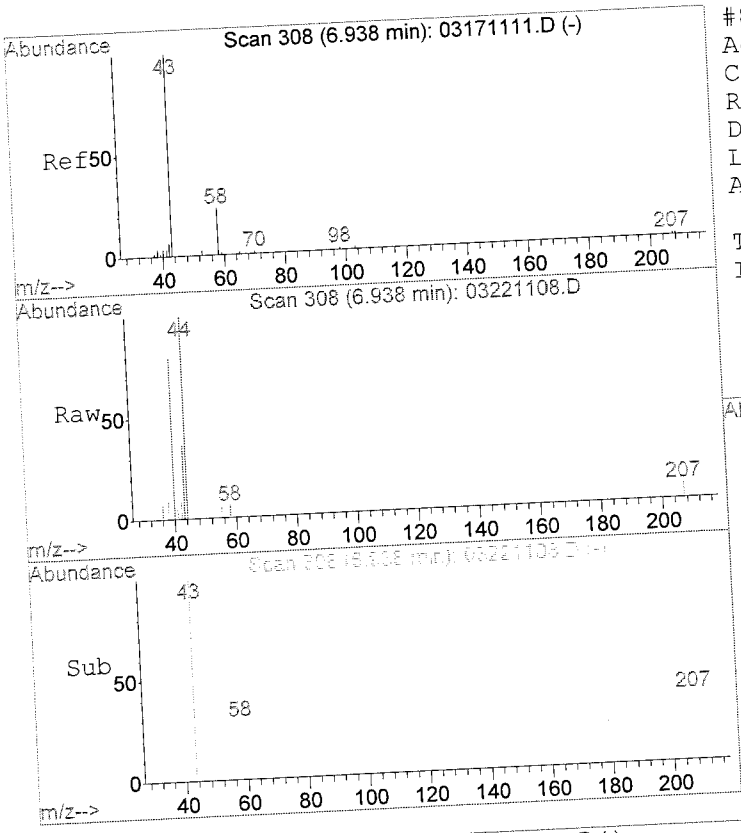
#7
Trichlorofluoromethane
Concen: 0.13 ug/L
RT: 6.78 min Scan# 289
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion:101 Resp: 1147

Ion	Ratio	Lower	Upper
101	100		
103	67.3	50.7	76.1



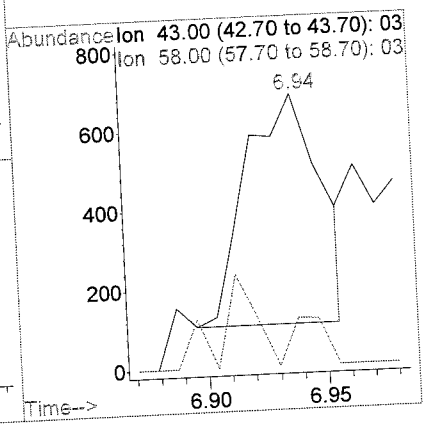
03221108.D 031711.M Tue Mar 22 12:26:06 2011

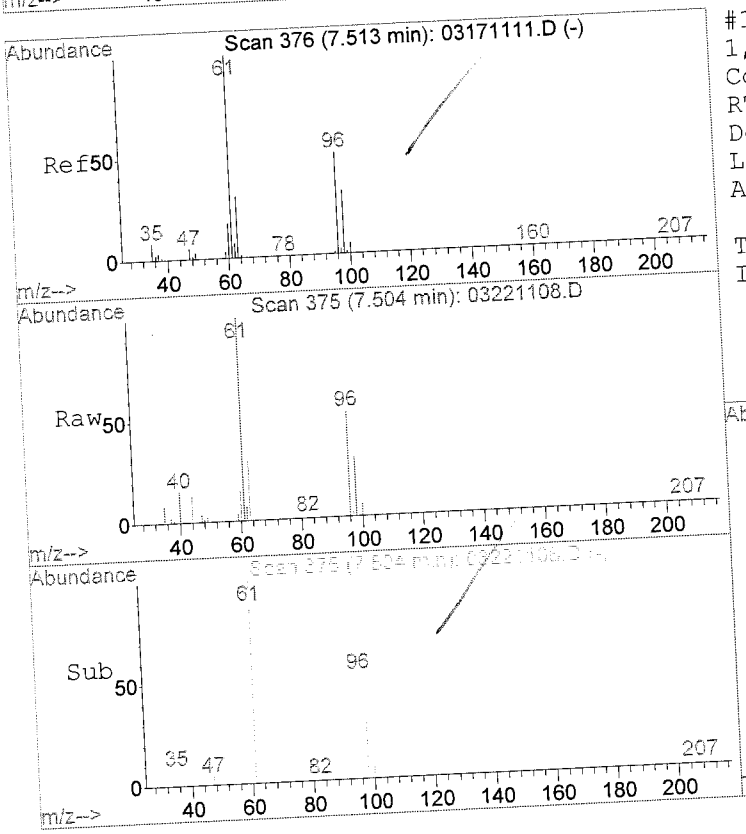


#8
Acetone
Concen: Below Cal
RT: 6.94 min Scan# 308
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 43 Resp: 1256

Ion	Ratio	Lower	Upper
43	100		
58	9.6	21.2	31.8#

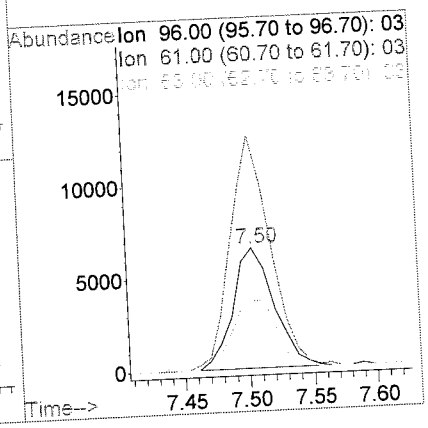




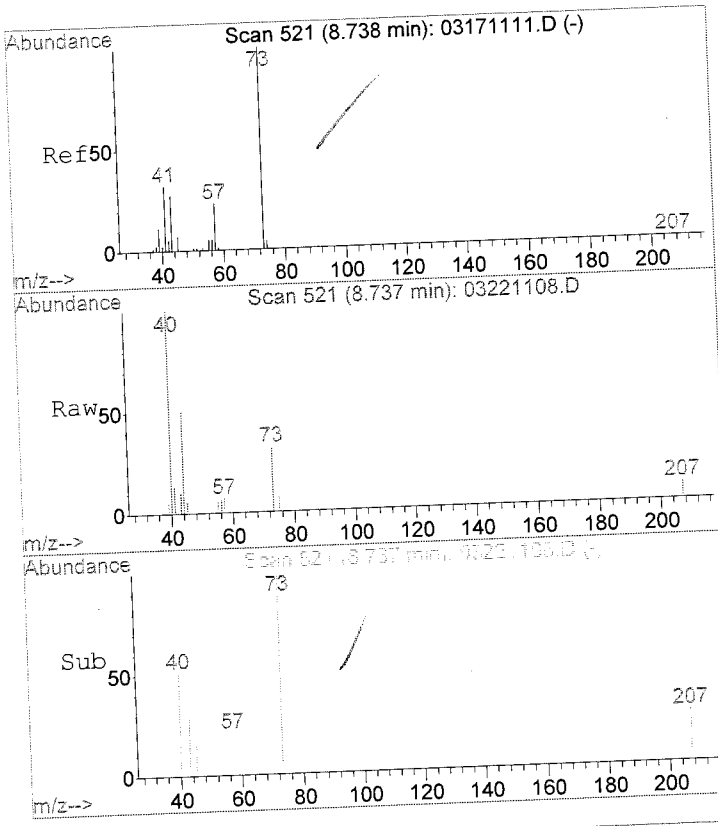
#10
1,1-Dichloroethene
Concen: 2.71 ug/L
RT: 7.50 min Scan# 375
Delta R.T. -0.01 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 96 Resp: 14372

Ion	Ratio	Lower	Upper
96	100		
61	186.4	160.7	241.1
63	61.2	50.9	76.3



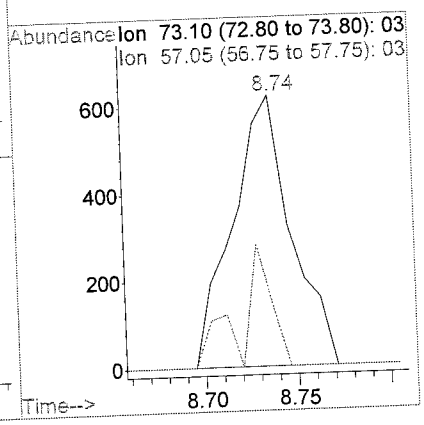
03221108.D 031711.M Tue Mar 22 12:26:07 2011

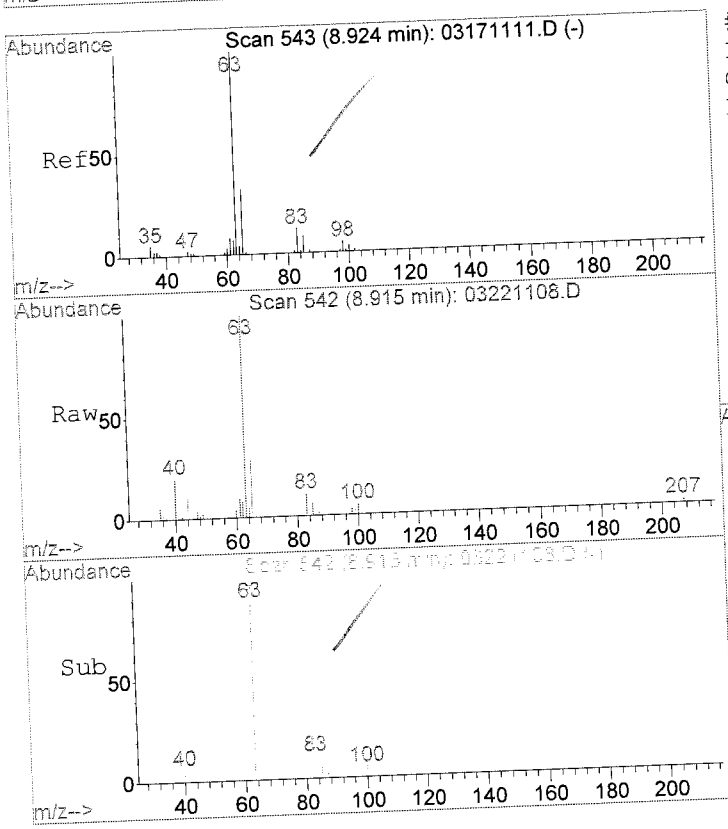


#15
MTBE
Concen: 0.14 ug/L
RT: 8.74 min Scan# 521
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 73 Resp: 1363

Ion	Ratio	Lower	Upper
73	100		
57	15.4	20.0	30.0#

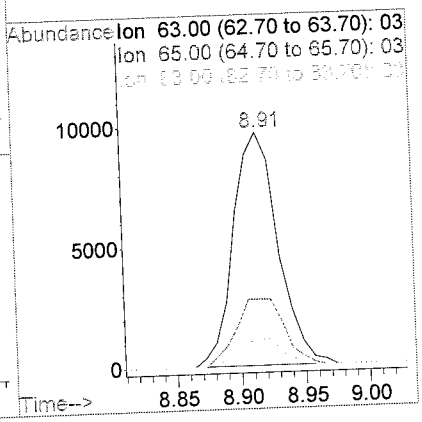


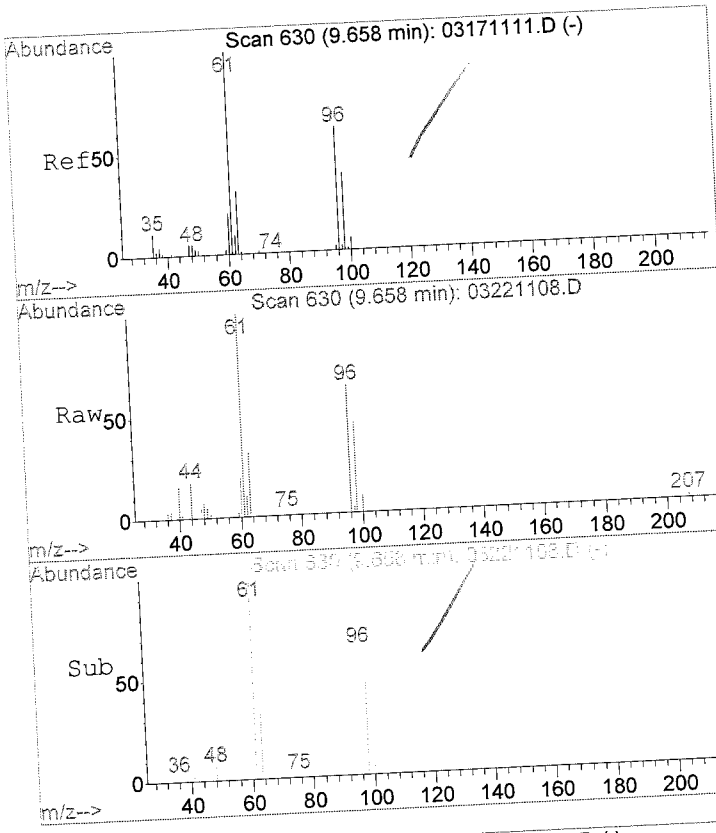


#16
1,1-Dichloroethane
Concen: 1.90 ug/L
RT: 8.91 min Scan# 542
Delta R.T. -0.01 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 63 Resp: 23225

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.2	37.8
83	11.1	9.2	13.8

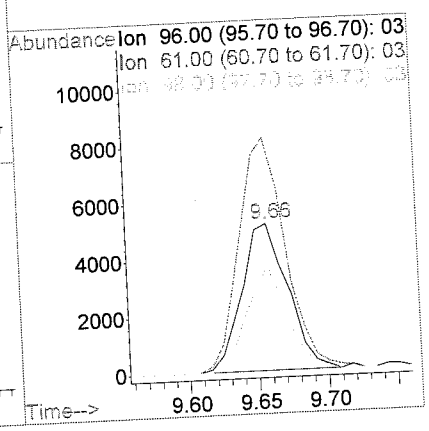


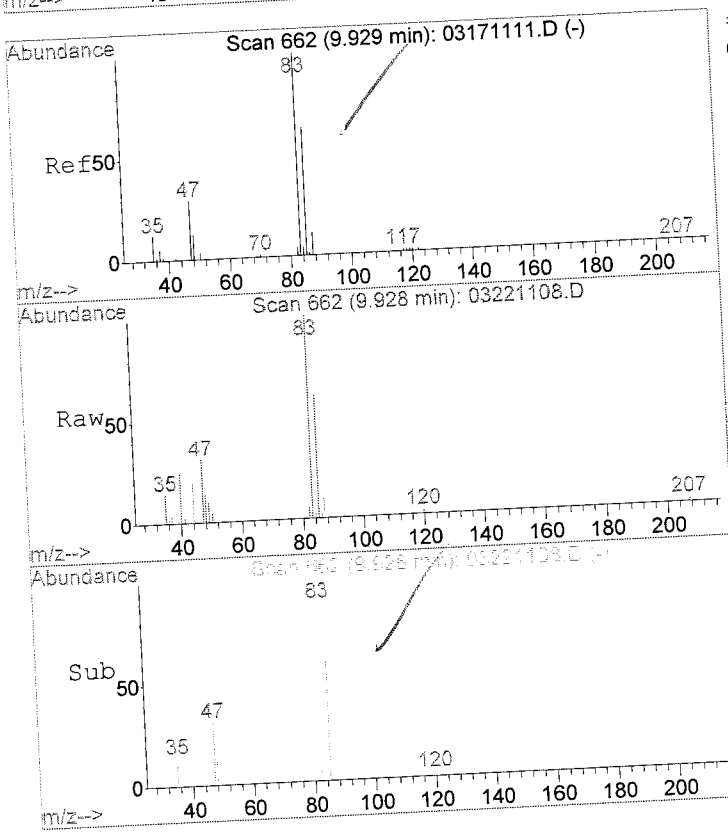


#19
cis-1,2-Dichloroethene
Concen: 1.96 ug/L
RT: 9.66 min Scan# 630
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 96 Resp: 11914

Ion	Ratio	Lower	Upper
96	100		
61	159.6	128.5	192.7
98	62.5	49.9	74.9

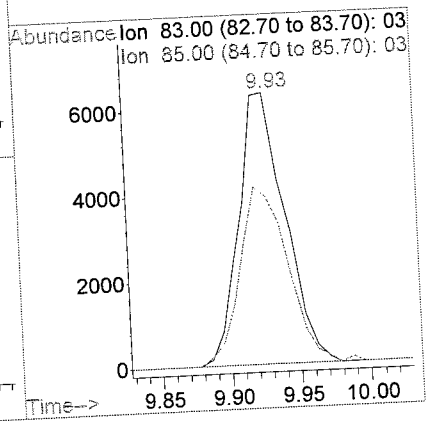


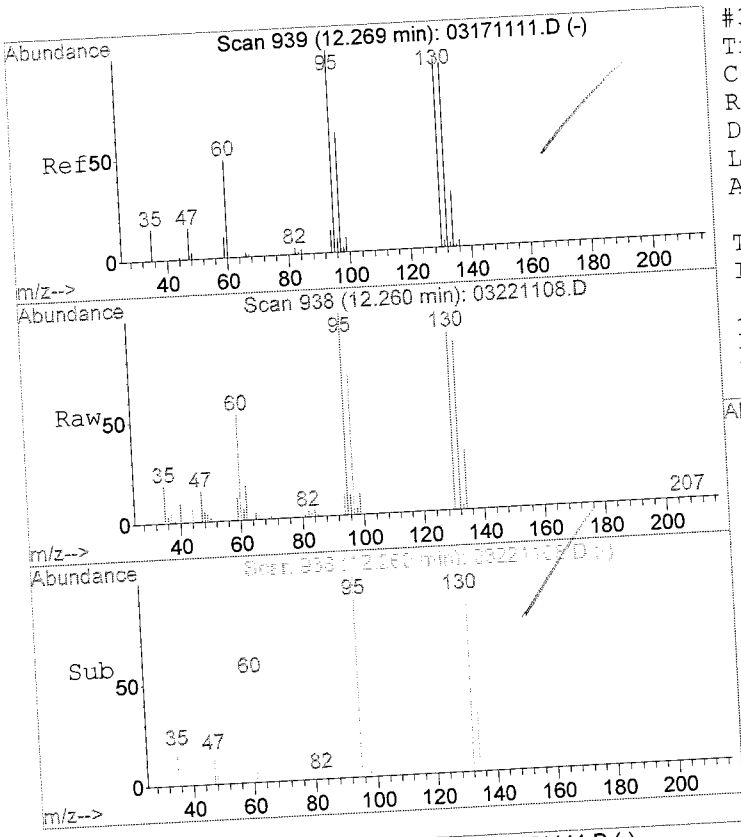


#21
Chloroform
Concen: 1.44 ug/L
RT: 9.93 min Scan# 662
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 83 Resp: 14603

Ion	Ratio	Lower	Upper
83	100		
85	67.9	51.6	77.4

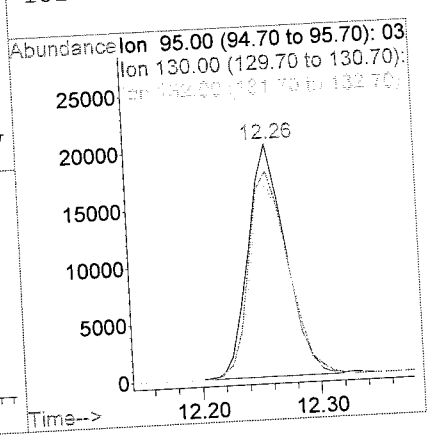


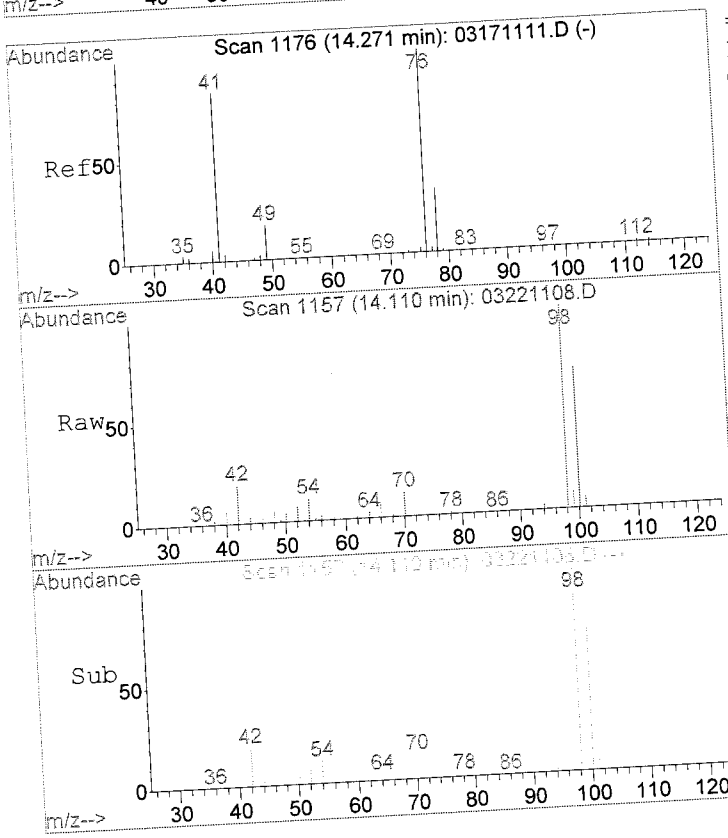


#32
Trichloroethene
Concen: 7.93 ug/L
RT: 12.26 min Scan# 938
Delta R.T. -0.01 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 95 Resp: 44876

Ion	Ratio	Lower	Upper
95	100		
130	93.0	74.2	111.4
132	86.5	70.8	106.2

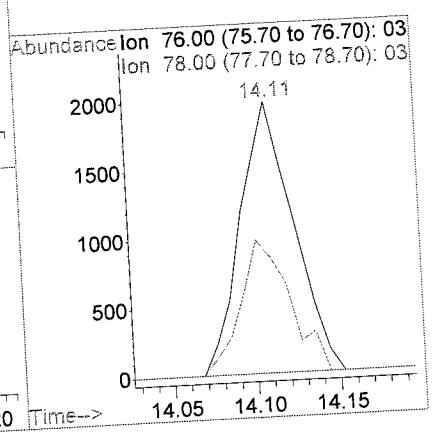




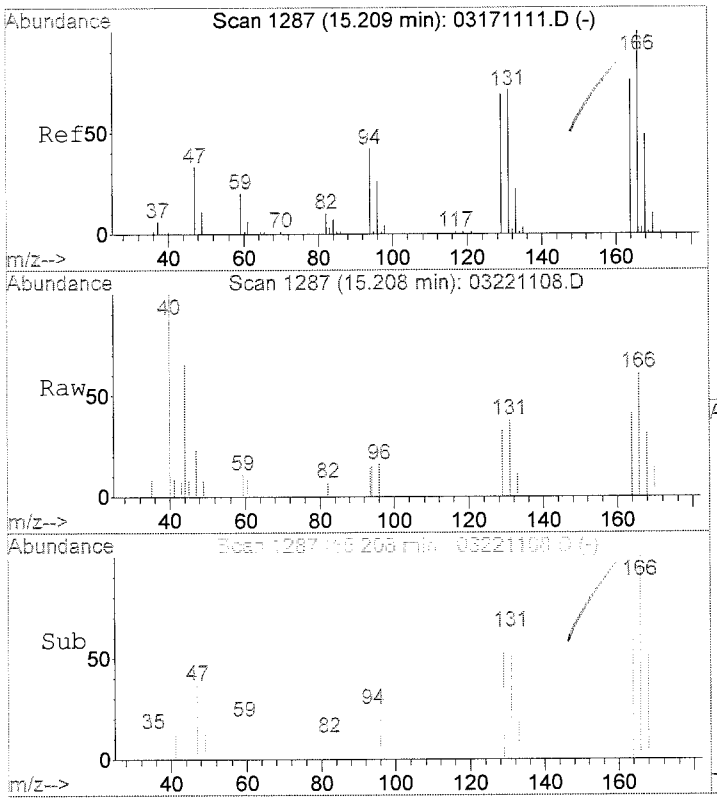
#42
1,3-Dichloropropane
Concen: 0.69 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. -0.16 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 76 Resp: 4370

Ion	Ratio	Lower	Upper
76	100		
78	46.1	24.6	37.0#



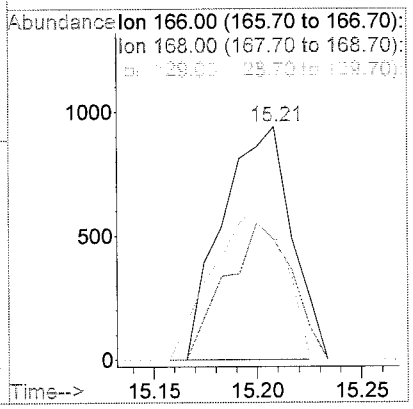
03221108.D 031711.M Tue Mar 22 12:26:08 2011



#46
Tetrachloroethene
Concen: 0.43 ug/L
RT: 15.21 min Scan# 1287
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion:166 Resp: 2169

Ion	Ratio	Lower	Upper
166	100		
168	55.6	37.9	56.9
129	67.3	59.8	89.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221109.D
Acq On : 22 Mar 2011 10:34 am
Sample : -MS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

✓ 3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.59	168	187013	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.71	114	325050	25.00 ug/L	-0.01
41) Chlorobenzene-d5	16.06	117	268038	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	124976	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	111044	23.60 ug/L	0.00
Spiked Amount 25.000			Recovery =	94.40%	
39) Toluene-d8	14.11	98	375789	22.92 ug/L	-0.01
Spiked Amount 25.000			Recovery =	91.68%	
53) 4-Bromofluorobenzene	17.75	95	134033	22.82 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.28%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	167673	18.98 ug/L	97
3) Chloromethane	4.89	50	253987	17.39 ug/L	99
4) Vinyl chloride	5.18	62	247018	18.99 ug/L	99
5) Bromomethane	5.77	94	122262	18.12 ug/L	99
6) Chloroethane	5.97	64	138341	20.06 ug/L	99
7) Trichlorofluoromethane	6.77	101	216048	23.89 ug/L	97
8) Acetone	6.92	43	30195	27.20 ug/L	94
9) Iodomethane	7.57	142	101387	24.25 ug/L	98
10) 1,1-Dichloroethene	7.51	96	118322	22.43 ug/L	98
11) Methylene chloride	7.70	84	123188	19.85 ug/L	100
12) Freon 113	7.77	101	121362	19.43 ug/L	97
13) Carbon disulfide	8.02	76	440334	23.46 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	118176	20.25 ug/L	97
15) MTBE	8.72	73	198052	19.86 ug/L	100
16) 1,1-Dichloroethane	8.91	63	262827	21.59 ug/L	100
17) Vinyl acetate	9.07	43	230925	24.42 ug/L	100
18) 2-Butanone (MEK)	9.46	72	6908	23.69 ug/L	57
19) cis-1,2-Dichloroethene	9.65	96	129340	21.40 ug/L	98
20) Bromochloromethane	9.86	128	45302	20.48 ug/L	97
21) Chloroform	9.92	83	214765	21.38 ug/L	99
22) 2,2-Dichloropropane	10.02	77	161850	19.87 ug/L	99
24) 1,2-Dichloroethane	10.77	62	124884	20.37 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	149265	20.69 ug/L	99
27) 1,1-Dichloropropene	11.14	75	176835	21.25 ug/L	99
28) Carbon tetrachloride	11.38	117	123392	21.48 ug/L	99
29) Benzene	11.43	78	441095	19.83 ug/L	99
30) Dibromomethane	12.16	93	56613	21.51 ug/L	98
31) 1,2-Dichloropropane	12.20	63	131730	21.20 ug/L	99
32) Trichloroethene	12.25	95	156001	28.04 ug/L	99
33) Bromodichloromethane	12.32	83	134719	20.63 ug/L	99
34) 2-Chlorovinylethylether	12.89	63	115	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	165392	20.86 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.29	43	75059	23.12 ug/L	100
37) trans-1,3-Dichloropropene	13.72	75	133331	21.79 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	62511	21.25 ug/L	98
40) Toluene	14.21	92	253680	20.06 ug/L	99
42) 1,3-Dichloropropane	14.27	76	125269	20.65 ug/L	97

(#) = qualifier out of range (m) = manual integration
03221109.D 031711.M Tue Mar 22 12:26:27 2011

LC 3/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221109.D Vial: 8
Acq On : 22 Mar 2011 10:34 am Operator: LC
Sample : -MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	48952	24.21 ug/L #	91
44) Dibromochloromethane	14.64	129	79005	21.66 ug/L	99
45) 1,2-Dibromoethane	14.98	107	64283	21.11 ug/L	98
46) Tetrachloroethene	15.19	166	102000	21.22 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	83023	20.92 ug/L	97
48) Chlorobenzene	16.12	112	259623	20.61 ug/L	100
49) Ethylbenzene	16.37	91	489576	20.63 ug/L	99
50) m,p-Xylenes	16.63	106	169469	20.39 ug/L	99
51) Styrene	17.09	104	251259	19.93 ug/L	100
52) o-Xylene	17.19	106	164097	20.31 ug/L	98
55) Bromoform	16.81	173	41119	22.72 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.17	83	80806	22.08 ug/L	100
57) 1,2,3-Trichloropropane	17.37	110	17587	22.09 ug/L	96
58) Isopropylbenzene	17.69	105	443465	23.17 ug/L	98
59) Bromobenzene	18.04	156	97005	21.97 ug/L	99
60) n-Propylbenzene	18.30	91	600146	21.97 ug/L	100
61) 2-Chlorotoluene	18.44	91	331120	20.69 ug/L	99
62) 4-Chlorotoluene	18.54	91	347759	21.92 ug/L	100
63) 1,3,5-Trimethylbenzene	18.69	105	360308	21.79 ug/L	100
64) tert-Butylbenzene	19.08	119	302623	21.50 ug/L	99
65) 1,2,4-Trimethylbenzene	19.22	105	360516	21.69 ug/L	98
66) sec-Butylbenzene	19.37	105	512653	21.24 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	191411	21.28 ug/L	98
68) 1,4-Dichlorobenzene	19.56	146	197055	21.76 ug/L	98
69) p-Isopropyltoluene	19.60	119	408509	22.15 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	168894	21.58 ug/L	99
71) n-Butylbenzene	20.11	91	456627	22.24 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	10528	21.59 ug/L	91
73) 1,2,4-Trichlorobenzene	22.27	180	118528	23.45 ug/L	100
74) Naphthalene	22.61	128	152867	22.81 ug/L	100
75) Hexachlorobutadiene	22.67	225	74190	22.99 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	96540	23.43 ug/L	100

(#) = qualifier out of range (m) = manual integration
03221109.D 031711.M Tue Mar 22 12:26:28 2011

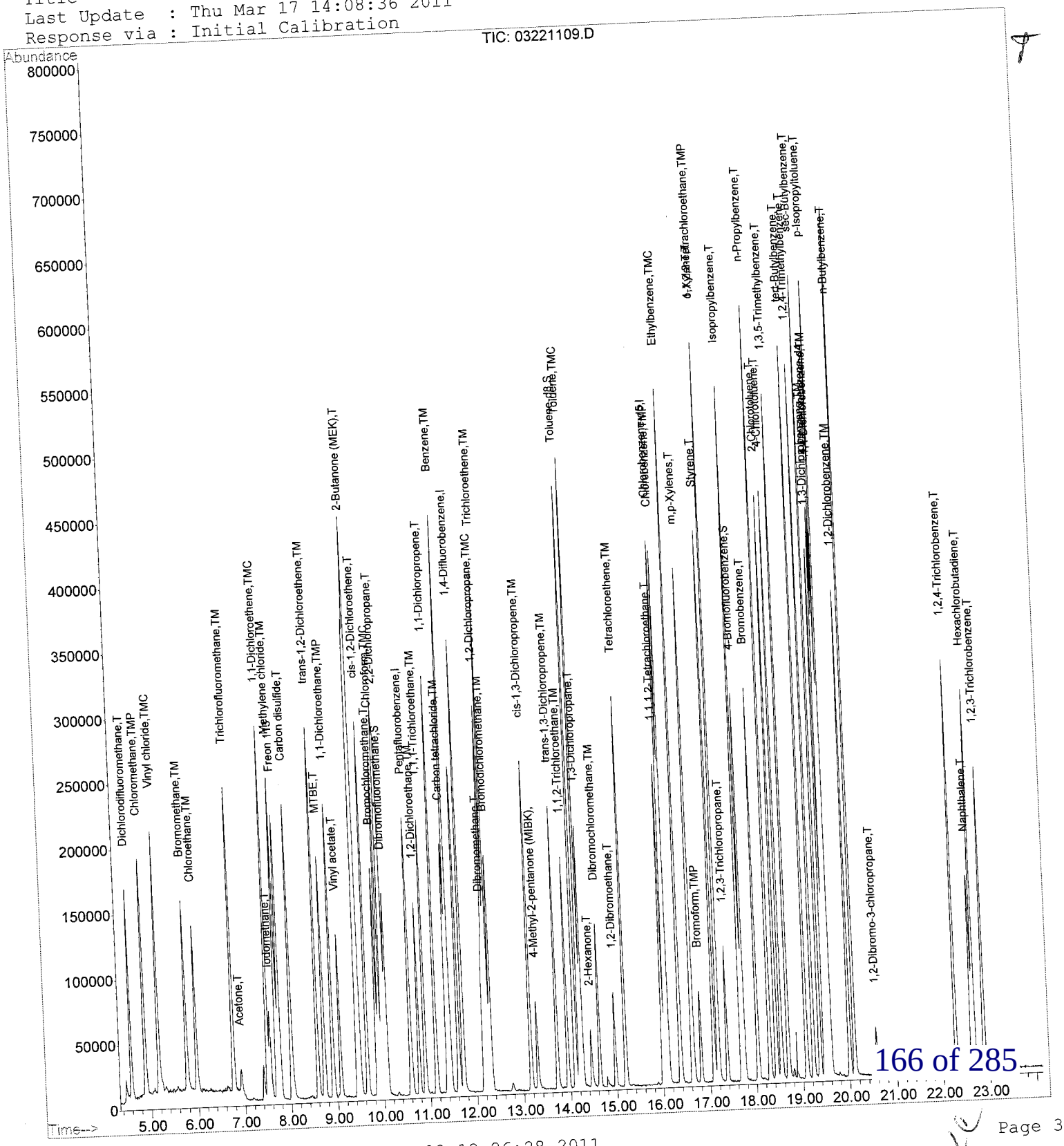
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221109.D
Acq On : 22 Mar 2011 10:34 am
Sample : -MS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03221109.D 031711.M Tue Mar 22 12:26:28 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221110.D
Acq On : 22 Mar 2011 11:05 am
Sample : -MSD1
Misc : ~~100X~~ LC 03/22/11
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	186713	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	327964	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.06	117	272122	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	127198	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	108034	22.99 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.96%	
39) Toluene-d8	14.11	98	371265	22.45 ug/L	0.00
Spiked Amount 25.000			Recovery =	89.80%	
53) 4-Bromofluorobenzene	17.74	95	137039	22.98 ug/L	0.00
Spiked Amount 25.000			Recovery =	91.92%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	167290	18.97 ug/L	99
3) Chloromethane	4.89	50	264201	18.12 ug/L	98
4) Vinyl chloride	5.17	62	250008	19.25 ug/L	100
5) Bromomethane	5.77	94	123708	18.37 ug/L	99
6) Chloroethane	5.98	64	137202	19.93 ug/L	98
7) Trichlorofluoromethane	6.77	101	213241	23.62 ug/L	99
8) Acetone	6.93	43	28065	25.05 ug/L	99
9) Iodomethane	7.56	142	102145	24.47 ug/L	98
10) 1,1-Dichloroethene	7.51	96	117328	22.28 ug/L	99
11) Methylene chloride	7.70	84	124814	20.15 ug/L	98
12) Freon 113	7.77	101	119416	19.15 ug/L	98
13) Carbon disulfide	8.02	76	430910	23.00 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	118271	20.30 ug/L	96
15) MTBE	8.73	73	202171	20.30 ug/L	99
16) 1,1-Dichloroethane	8.92	63	263888	21.71 ug/L	99
17) Vinyl acetate	9.08	43	227435	24.09 ug/L	99
18) 2-Butanone (MEK)	9.47	72	6724	23.12 ug/L	61
19) cis-1,2-Dichloroethene	9.65	96	127577	21.14 ug/L	99
20) Bromochloromethane	9.86	128	46053	20.86 ug/L	96
21) Chloroform	9.92	83	214343	21.37 ug/L	99
22) 2,2-Dichloropropane	10.02	77	158836	19.53 ug/L	97
24) 1,2-Dichloroethane	10.77	62	124391	20.32 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	147262	20.45 ug/L	100
27) 1,1-Dichloropropene	11.14	75	172867	20.59 ug/L	99
28) Carbon tetrachloride	11.38	117	121871	21.03 ug/L	99
29) Benzene	11.43	78	446742	19.90 ug/L	99
30) Dibromomethane	12.16	93	56853	21.41 ug/L	98
31) 1,2-Dichloropropane	12.20	63	130272	20.78 ug/L	99
32) Trichloroethene	12.26	95	158066	28.16 ug/L	99
33) Bromodichloromethane	12.32	83	137066	20.80 ug/L	99
34) 2-Chlorovinylethylether	13.15	63	758	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	164550	20.57 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	75063	22.91 ug/L	99
37) trans-1,3-Dichloropropene	13.72	75	134829	21.84 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	63229	21.31 ug/L	98
40) Toluene	14.20	92	256827	20.13 ug/L	99
42) 1,3-Dichloropropane	14.26	76	130073	21.12 ug/L	97

(#) = qualifier out of range (m) = manual integration
03221110.D 031711.M Tue Mar 22 12:26:51 2011

LC 3/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221110.D
Acq On : 22 Mar 2011 11:05 am
Sample : -MSD1
Misc : ~~100x~~ uc 03/22/11
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

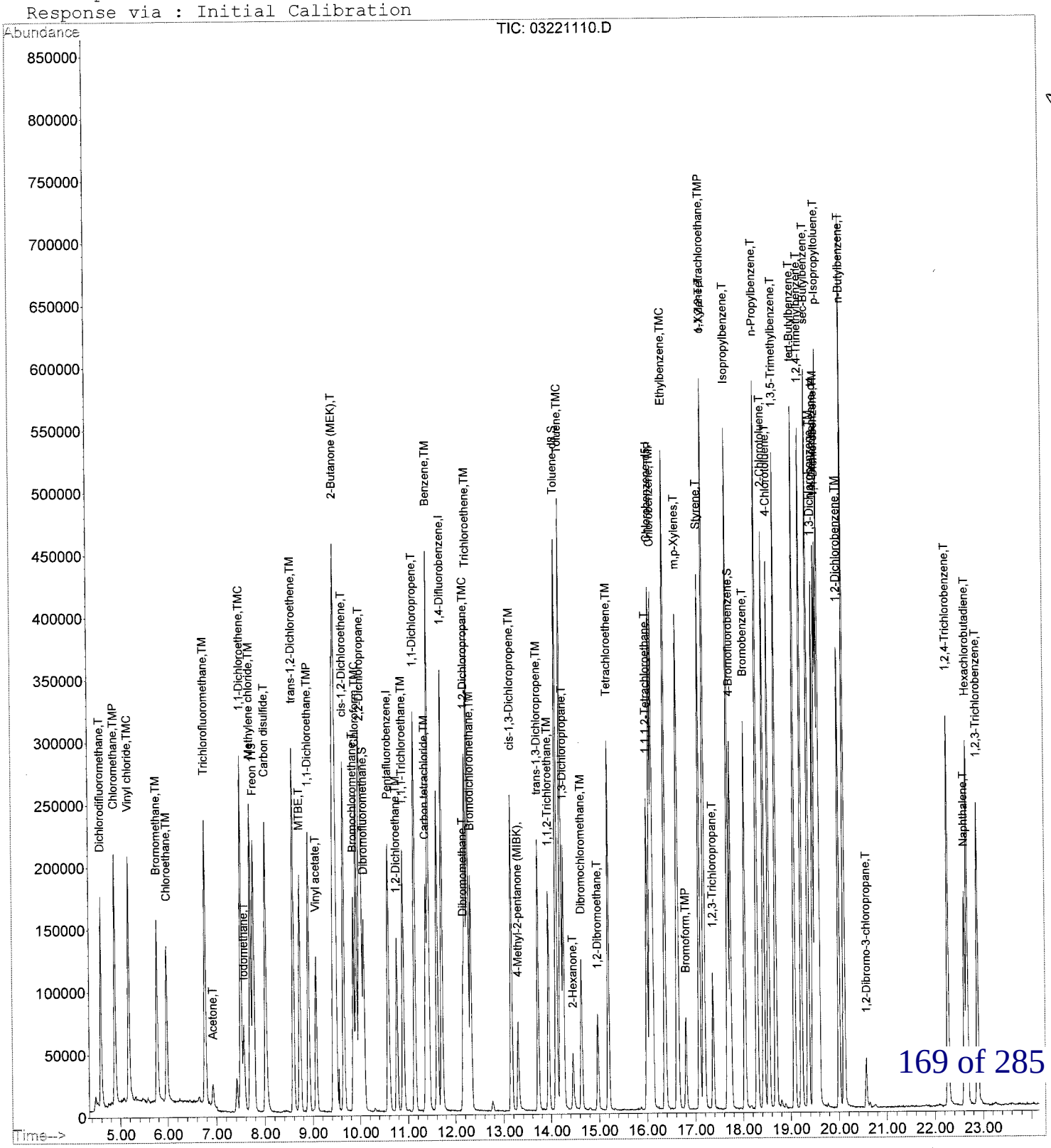
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	51449	25.06 ug/L #	89
44) Dibromochloromethane	14.64	129	80270	21.68 ug/L	99
45) 1,2-Dibromoethane	14.97	107	67888	21.96 ug/L	100
46) Tetrachloroethene	15.19	166	103042	21.11 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	82512	20.47 ug/L	98
48) Chlorobenzene	16.11	112	261280	20.43 ug/L	99
49) Ethylbenzene	16.37	91	493565	20.48 ug/L	100
50) m,p-Xylenes	16.64	106	172841	20.48 ug/L	99
51) Styrene	17.09	104	252548	19.73 ug/L	98
52) o-Xylene	17.19	106	162978	19.87 ug/L	100
55) Bromoform	16.81	173	41208	22.37 ug/L	94
56) 1,1,2,2-Tetrachloroethane	17.18	83	83750	22.49 ug/L	100
57) 1,2,3-Trichloropropane	17.37	110	18202	22.46 ug/L	95
58) Isopropylbenzene	17.69	105	449720	23.09 ug/L	99
59) Bromobenzene	18.04	156	98766	21.98 ug/L	99
60) n-Propylbenzene	18.29	91	608804	21.90 ug/L	100
61) 2-Chlorotoluene	18.44	91	336063	20.63 ug/L	99
62) 4-Chlorotoluene	18.55	91	349191	21.62 ug/L	100
63) 1,3,5-Trimethylbenzene	18.69	105	356745	21.20 ug/L	99
64) tert-Butylbenzene	19.08	119	301682	21.05 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	364419	21.54 ug/L	98
66) sec-Butylbenzene	19.37	105	518392	21.11 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	191590	20.92 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	195033	21.16 ug/L	99
69) p-Isopropyltoluene	19.60	119	409279	21.80 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	170099	21.36 ug/L	99
71) n-Butylbenzene	20.11	91	458492	21.94 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	11352	22.87 ug/L	91
73) 1,2,4-Trichlorobenzene	22.28	180	124334	24.17 ug/L	99
74) Naphthalene	22.62	128	166957	24.48 ug/L	100
75) Hexachlorobutadiene	22.67	225	71863	21.88 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	100478	23.96 ug/L	98

(#) = qualifier out of range (m) = manual integration
03221110.D 031711.M Tue Mar 22 12:26:52 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221110.D Vial: 9
Acq On : 22 Mar 2011 11:05 am Operator: LC
Sample : -MSD1 Inst : GCMS7
Misc : 100X Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221118.D
Acq On : 22 Mar 2011 3:12 pm
Sample : PUC1004-01
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 15:38 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	179922	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	319214	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	263015	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	117511	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	107289	23.70 ug/L	0.00
Spiked Amount 25.000			Recovery = 94.80%		
39) Toluene-d8	14.11	98	359859	22.35 ug/L	0.00
Spiked Amount 25.000			Recovery = 89.40%		
53) 4-Bromofluorobenzene	17.75	95	125075	21.70 ug/L	0.00
Spiked Amount 25.000			Recovery = 86.80%		

Target Compounds					Qvalue
5) Bromomethane	5.76	94	215	0.29 ug/L # LRL/NT	3
8) Acetone	6.93	43	2114	Below Cal #	68
10) 1,1-Dichloroethene	7.51	96	15628	3.08 ug/L	90
11) Methylene chloride	7.71	84	2963	0.50 ug/L LRL/NT	92
13) Carbon disulfide	8.01	76	2288	0.13 ug/L	100
15) MTBE	8.74	73	20632	2.15 ug/L	97
16) 1,1-Dichloroethane	8.92	63	21009	1.79 ug/L	98
17) Vinyl acetate	9.08	43	1612	0.18 ug/L # LRL/NT	83
19) cis-1,2-Dichloroethene	9.66	96	13446	2.31 ug/L	93
21) Chloroform	9.93	83	6671	0.69 ug/L	99
32) Trichloroethene	12.26	95	42876	7.85 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.33	43	729	0.23 ug/L # LRL/NT	50
38) 1,1,2-Trichloroethane	14.11	83	277	0.10 ug/L #	1
46) Tetrachloroethene	15.20	166	2325	0.49 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.19	83	393	0.11 ug/L #	57
74) Naphthalene	22.64	128	1242	0.20 ug/L	100

4/27/11 3/23/11

(#) = qualifier out of range (m) = manual integration
03221118.D 031711.M Tue Mar 22 15:38:33 2011

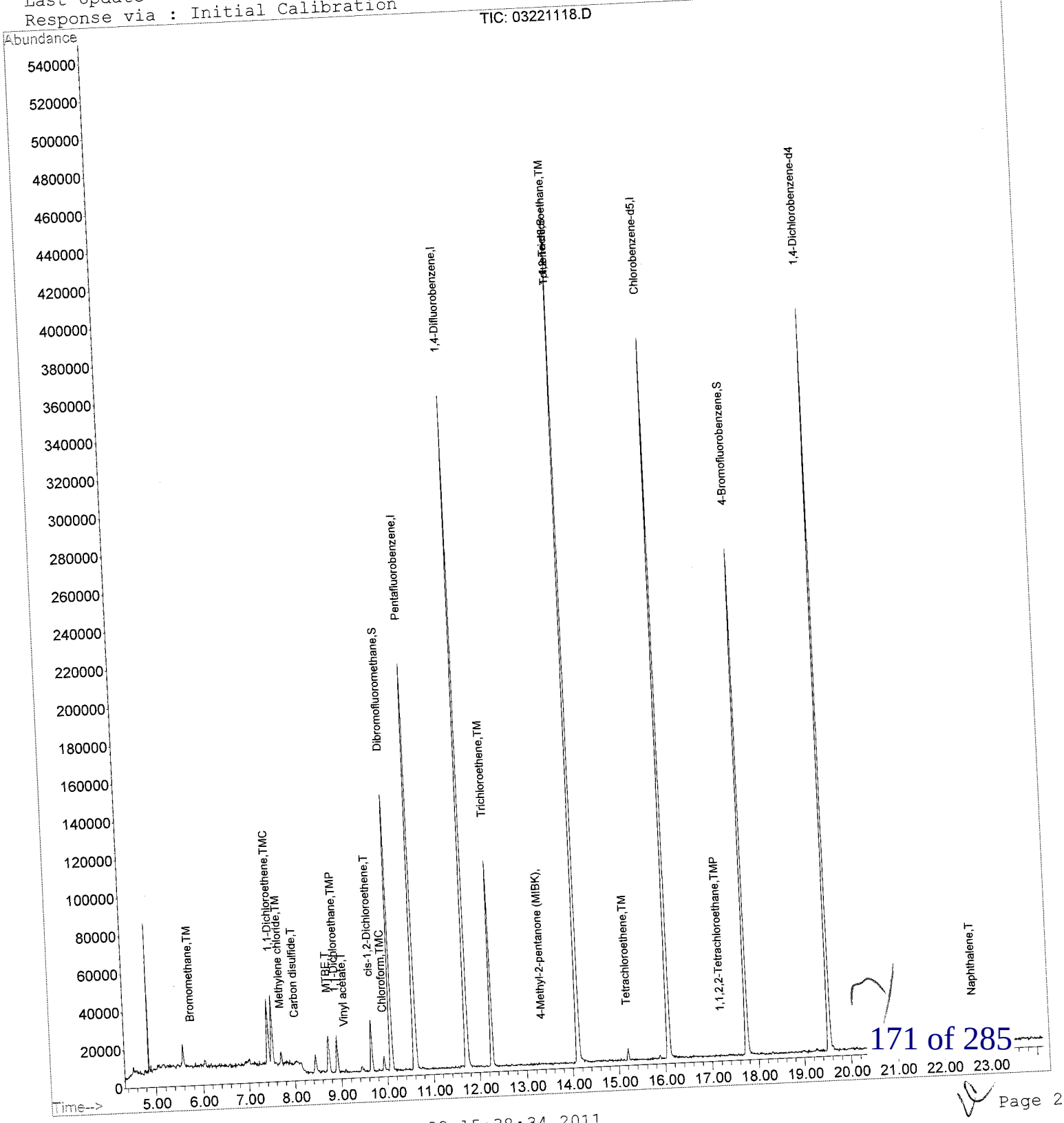
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221118.D
Acq On : 22 Mar 2011 3:12 pm
Sample : PUC1004-01
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 15:38 2011

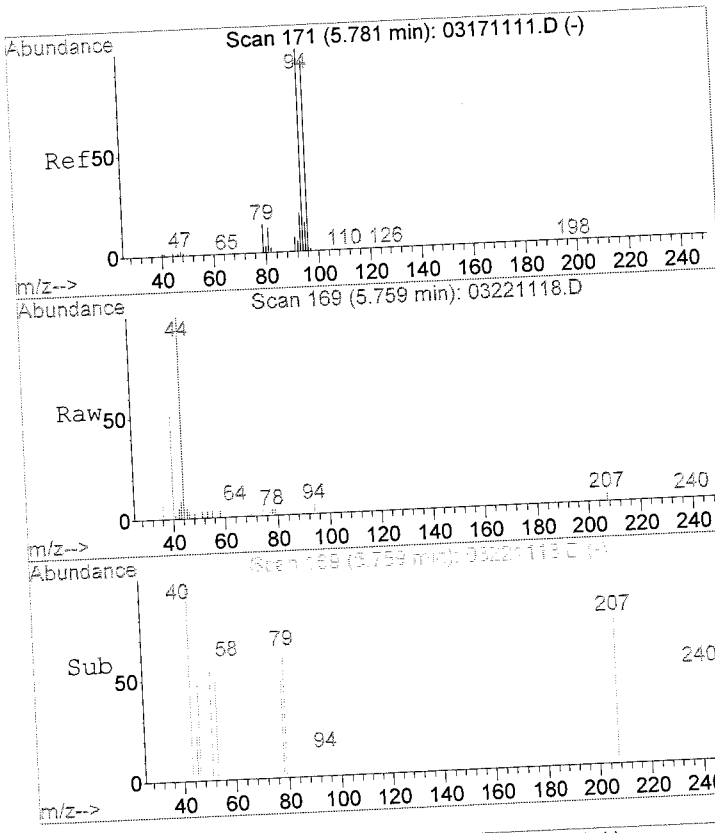
Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



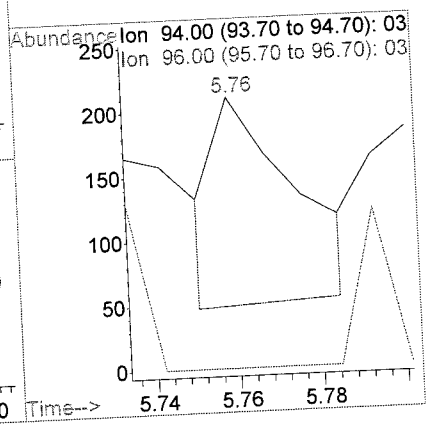
03221118.D 031711.M Tue Mar 22 15:38:34 2011

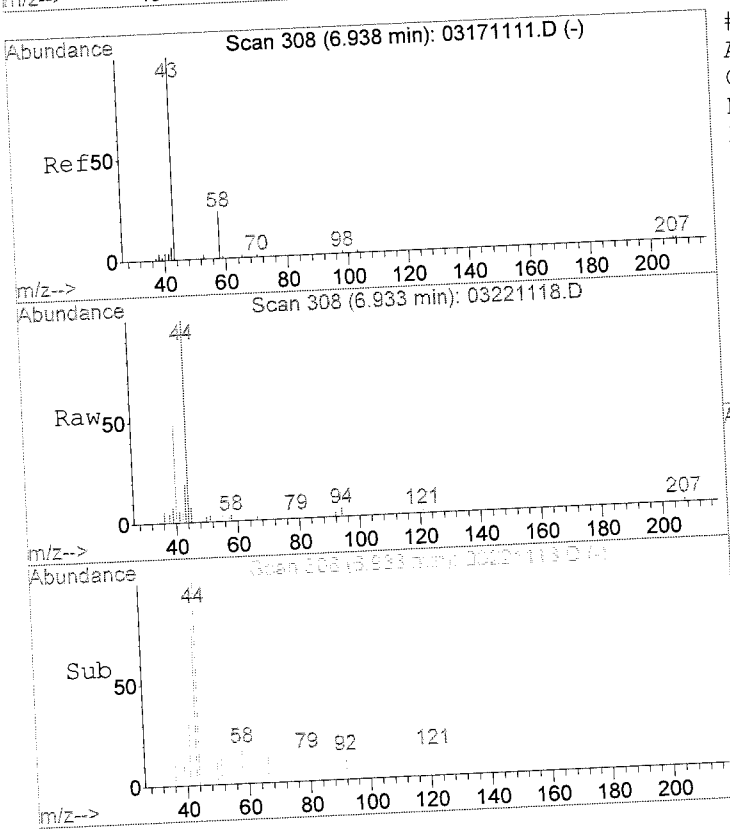


#5
Bromomethane
Concen: 0.29 ug/L
RT: 5.76 min Scan# 169
Delta R.T. -0.02 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 94 Resp: 215

Ion	Ratio	Lower	Upper
94	100		
96	0.0	74.0	111.0#

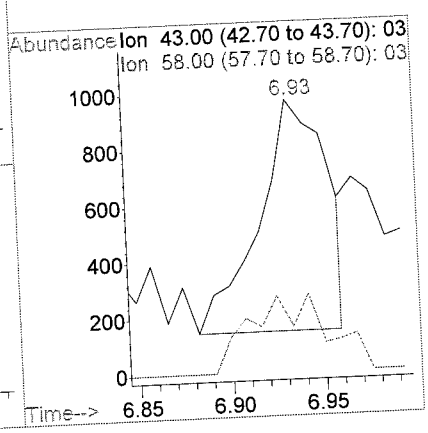


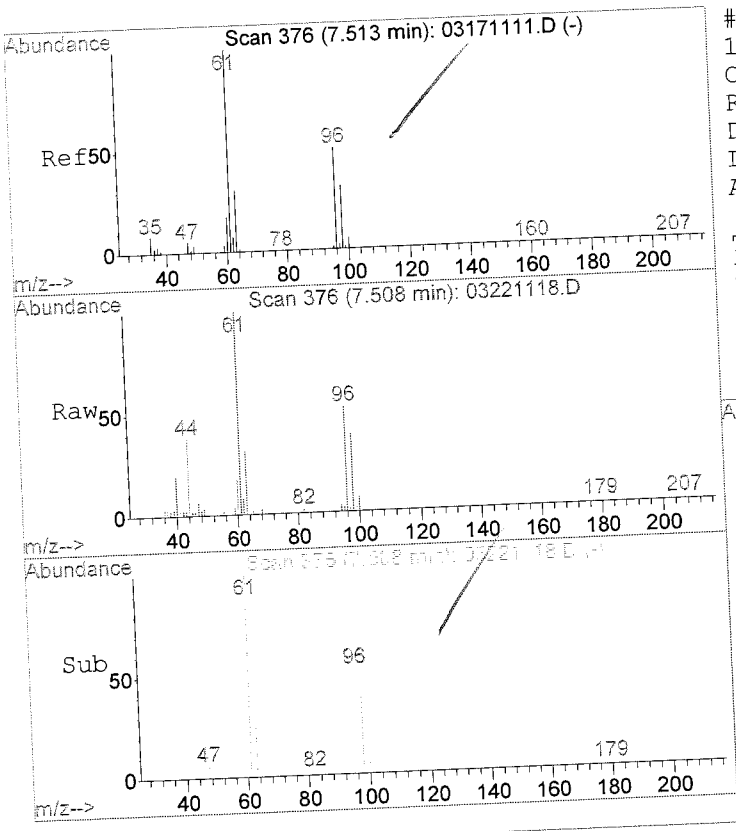


#8
Acetone
Concen: Below Cal
RT: 6.93 min Scan# 308
Delta R.T. -0.00 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 43 Resp: 2114

Ion	Ratio	Lower	Upper
43	100		
58	10.3	21.2	31.8#

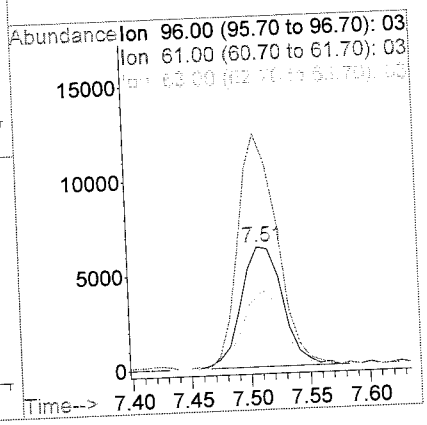


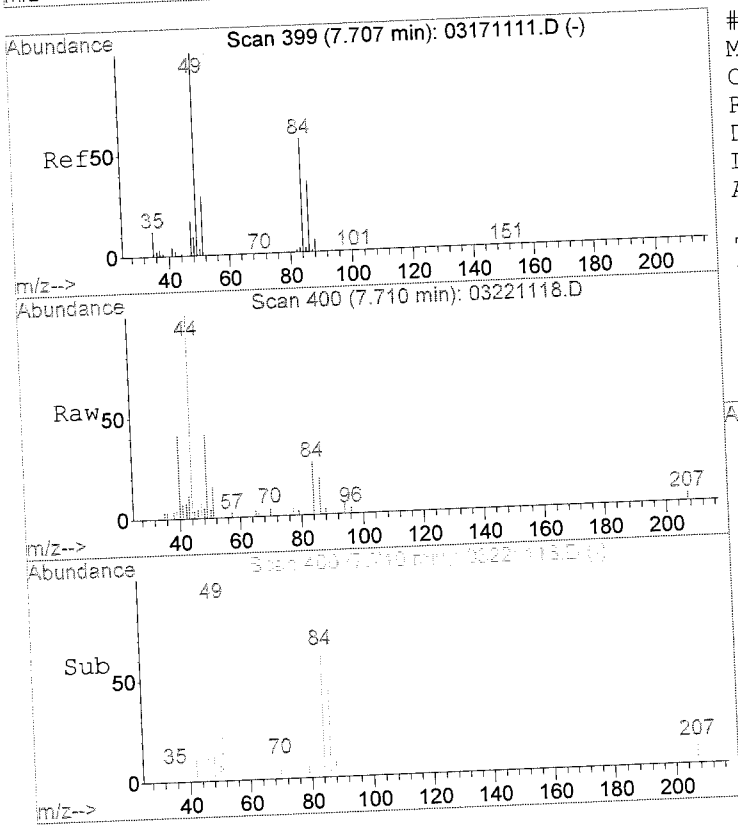


#10
1,1-Dichloroethene
Concen: 3.08 ug/L
RT: 7.51 min Scan# 376
Delta R.T. -0.00 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 96 Resp: 15628

Ion	Ratio	Lower	Upper
96	100		
61	181.1	160.7	241.1
63	62.6	50.9	76.3

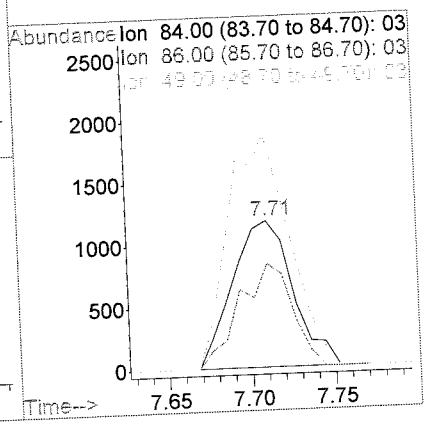




#11
Methylene chloride
Concen: 0.50 ug/L
RT: 7.71 min Scan# 400
Delta R.T. 0.00 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 84 Resp: 2963

Ion	Ratio	Lower	Upper
84	100		
86	62.3	50.6	76.0
49	160.5	140.4	210.6



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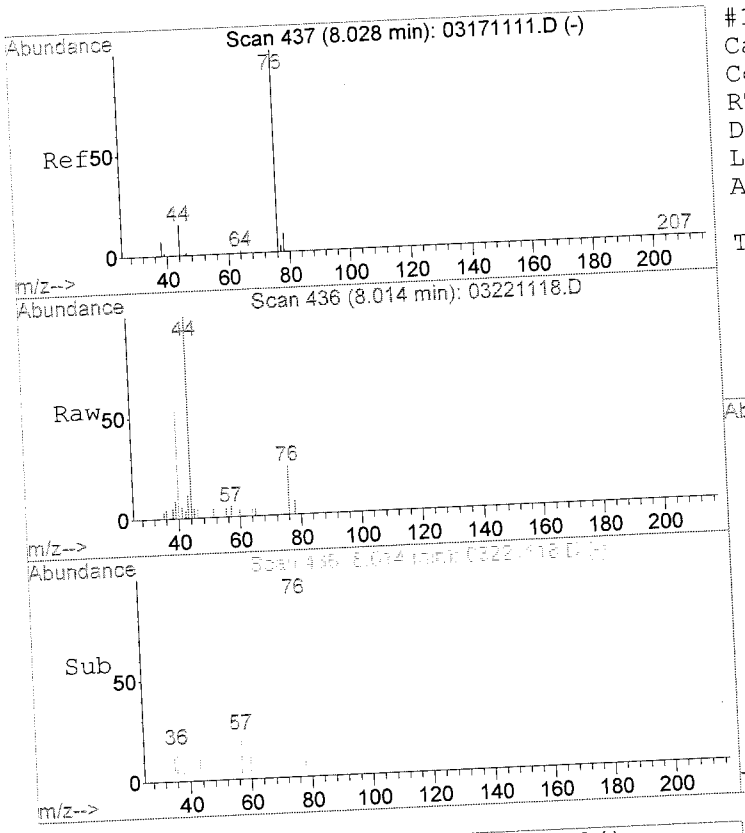
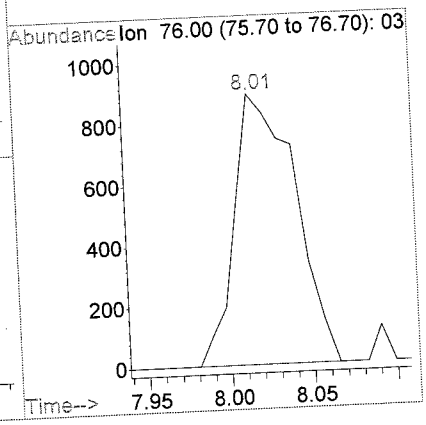
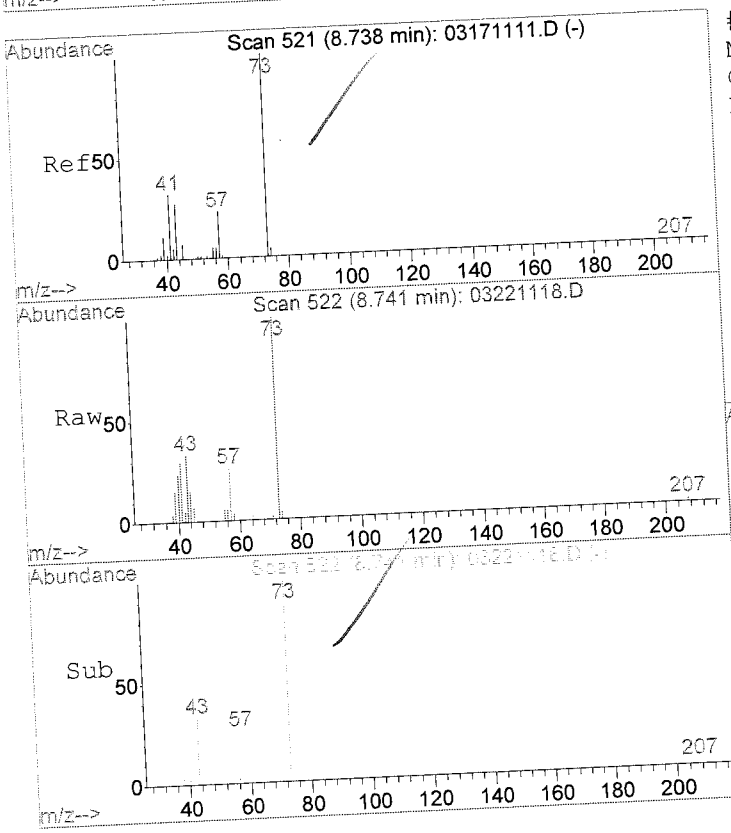


#13
Carbon disulfide
Concen: 0.13 ug/L
RT: 8.01 min Scan# 436
Delta R.T. -0.01 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 76 Resp: 2288

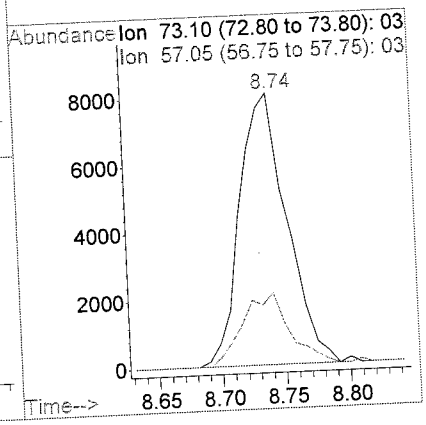


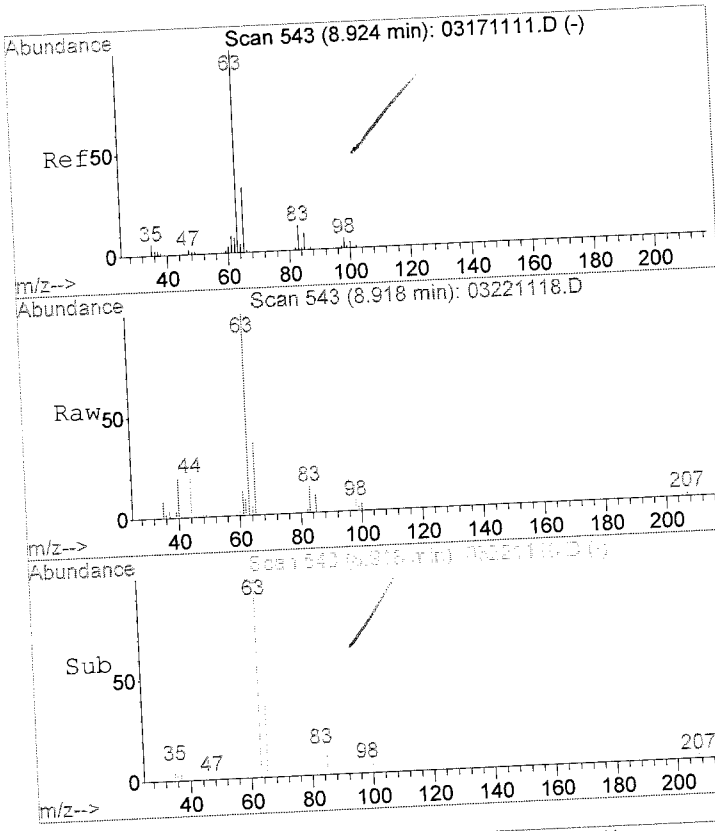


#15
MTBE
Concen: 2.15 ug/L
RT: 8.74 min Scan# 522
Delta R.T. 0.00 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 73 Resp: 20632

Ion	Ratio	Lower	Upper
73	100		
57	26.3	20.0	30.0

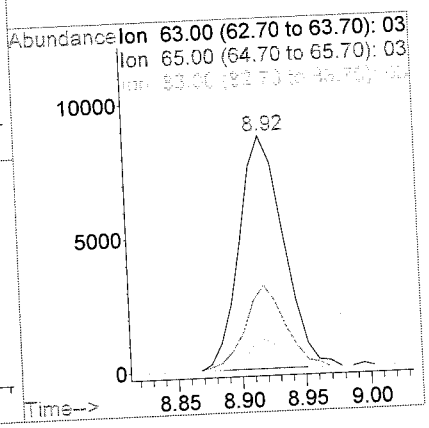


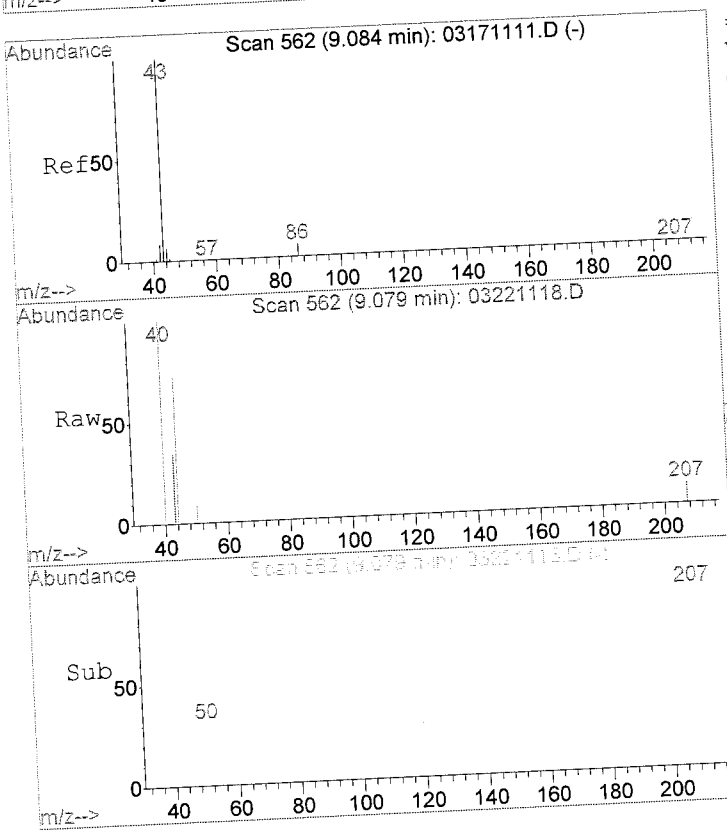


#16
1,1-Dichloroethane
Concen: 1.79 ug/L
RT: 8.92 min Scan# 543
Delta R.T. -0.01 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 63 Resp: 21009

Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.2	37.8
83	10.8	9.2	13.8

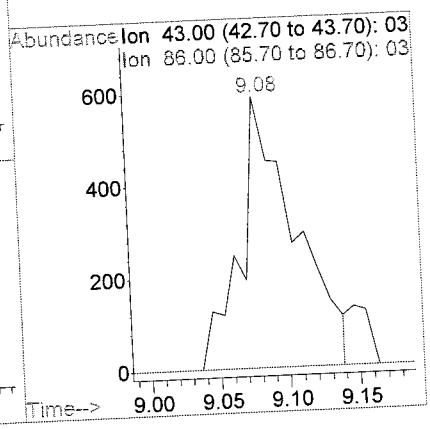


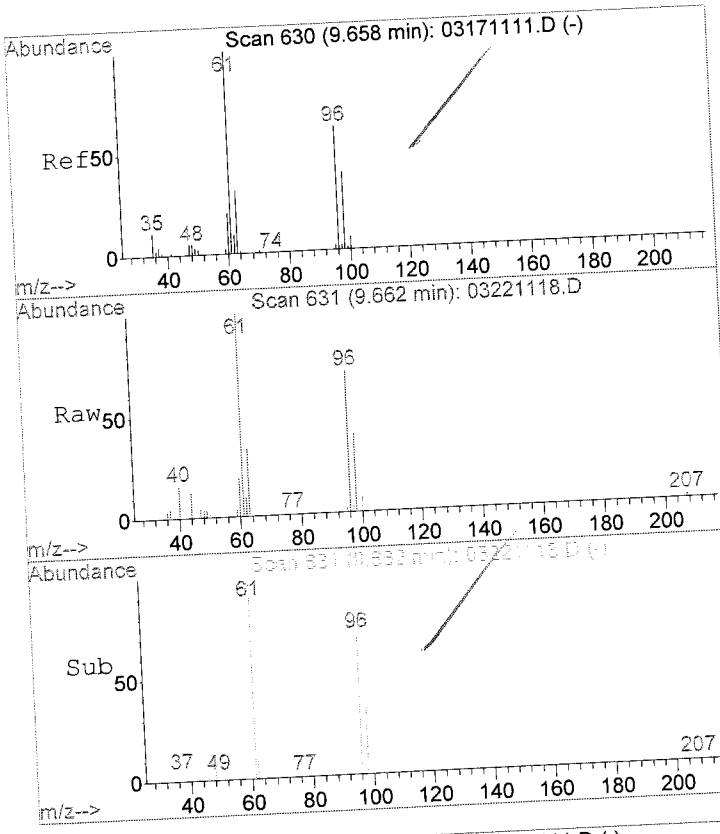


#17
Vinyl acetate
Concen: 0.18 ug/L
RT: 9.08 min Scan# 562
Delta R.T. -0.01 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 43 Resp: 1612

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#

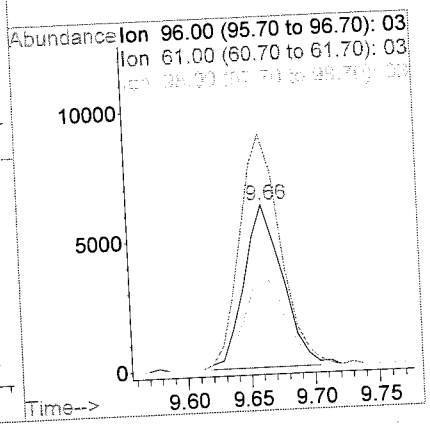


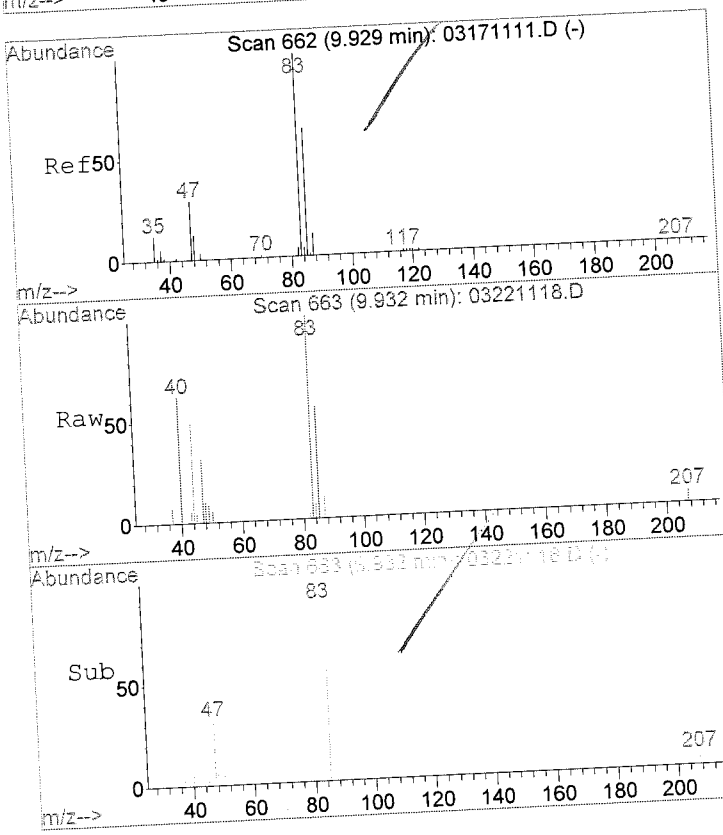


#19
cis-1,2-Dichloroethene
Concen: 2.31 ug/L
RT: 9.66 min Scan# 631
Delta R.T. 0.00 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 96 Resp: 13446

Ion	Ratio	Lower	Upper
96	100		
61	150.4	128.5	192.7
98	59.7	49.9	74.9

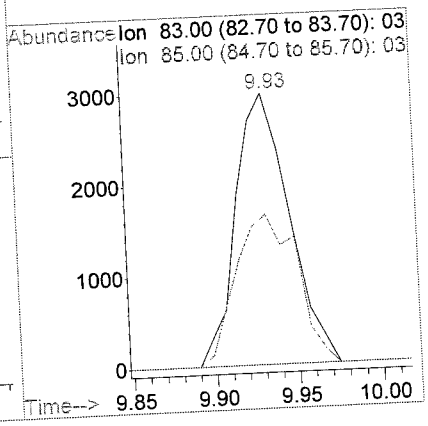




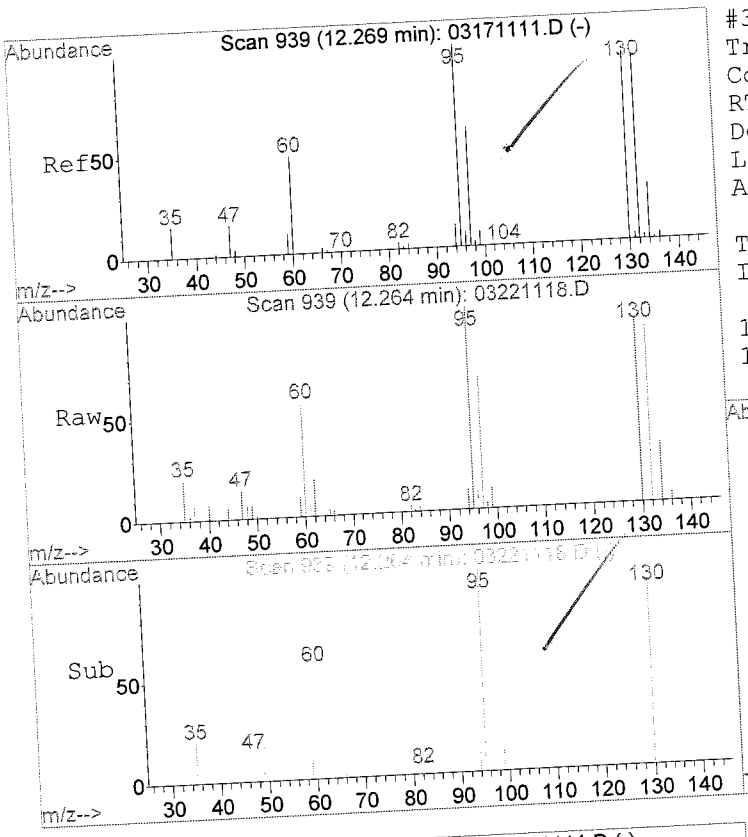
#21
Chloroform
Concen: 0.69 ug/L
RT: 9.93 min Scan# 663
Delta R.T. 0.00 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 83 Resp: 6671

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.6	77.4



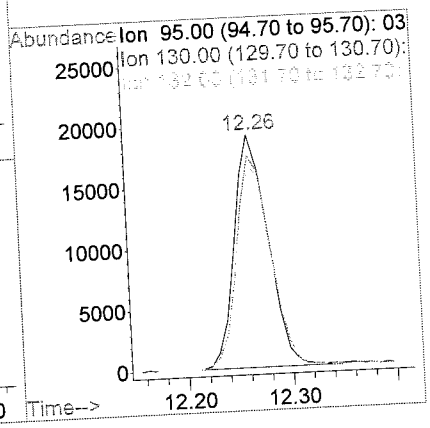
03221118.D 031711.M Tue Mar 22 15:38:36 2011

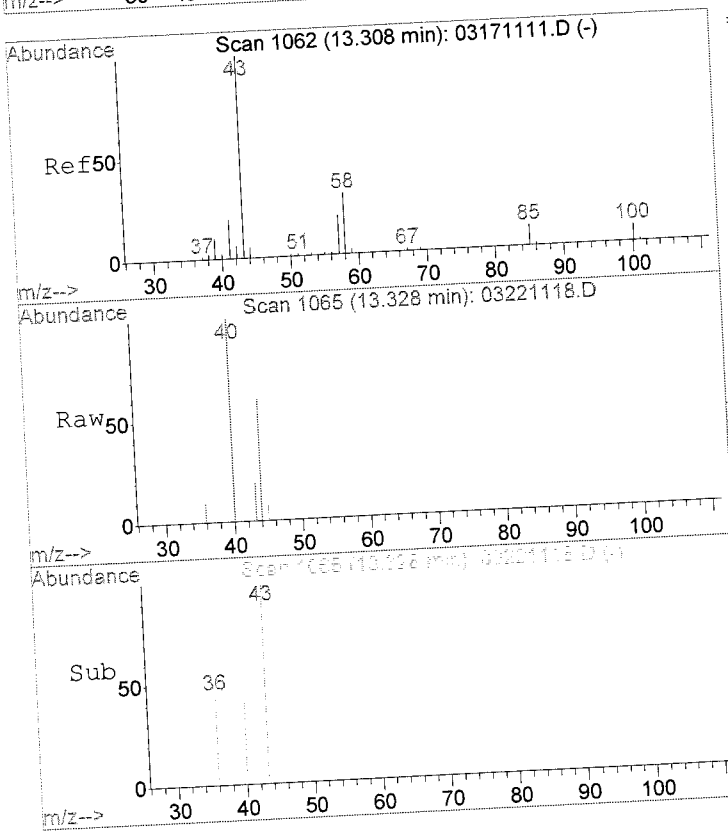


#32
Trichloroethene
Concen: 7.85 ug/L
RT: 12.26 min Scan# 939
Delta R.T. -0.01 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 95 Resp: 42876

Ion	Ratio	Lower	Upper
95	100		
130	91.7	74.2	111.4
132	89.5	70.8	106.2

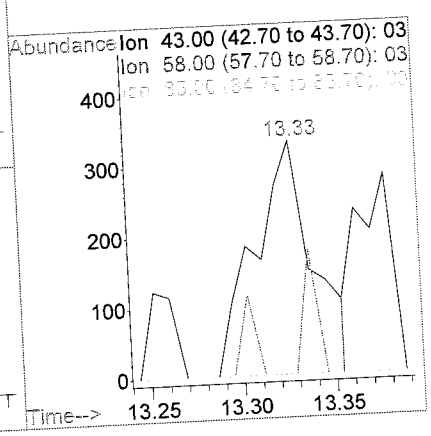




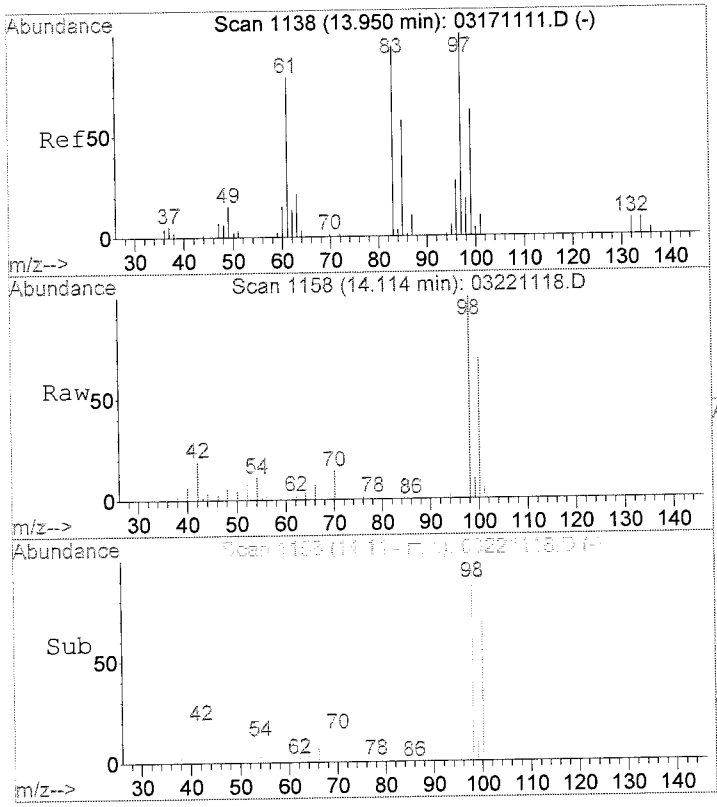
#36
4-Methyl-2-pentanone (MIBK)
Concen: 0.23 ug/L
RT: 13.33 min Scan# 1065
Delta R.T. 0.02 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 43 Resp: 729

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.4	38.0#
85	0.0	7.4	11.0#



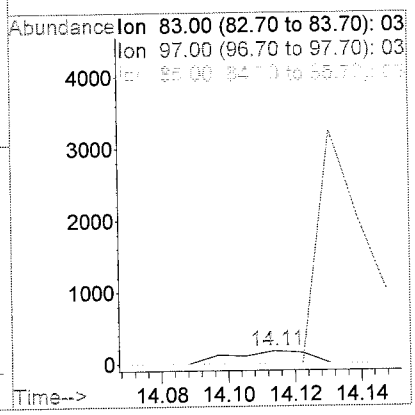
03221118.D 031711.M Tue Mar 22 15:38:36 2011

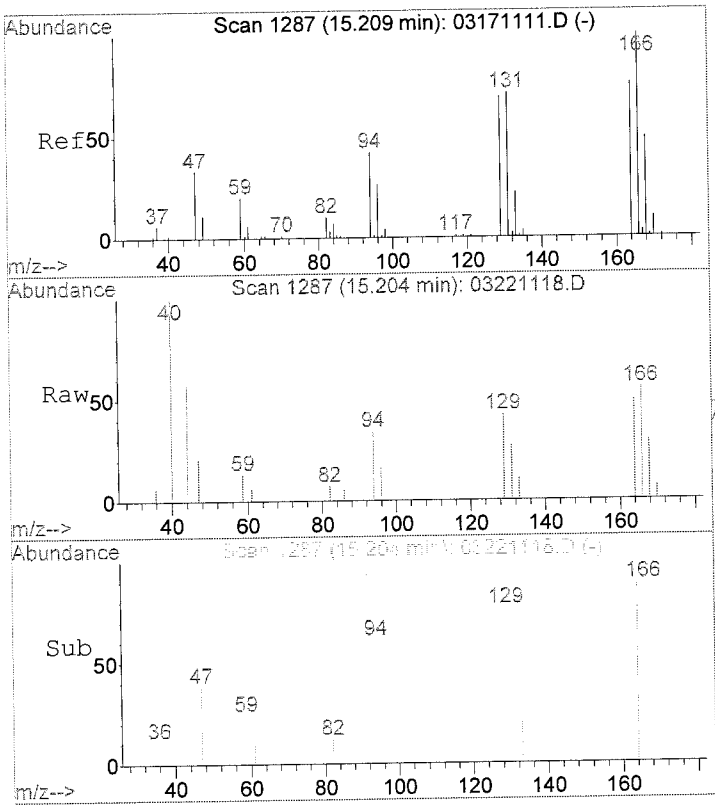


#38
1,1,2-Trichloroethane
Concen: 0.10 ug/L
RT: 14.11 min Scan# 1158
Delta R.T. 0.16 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 83 Resp: 277

Ion	Ratio	Lower	Upper
83	100		
97	1315.5	83.0	124.6#
85	0.0	51.3	76.9#

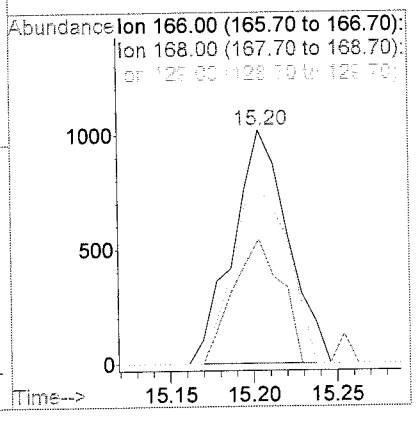


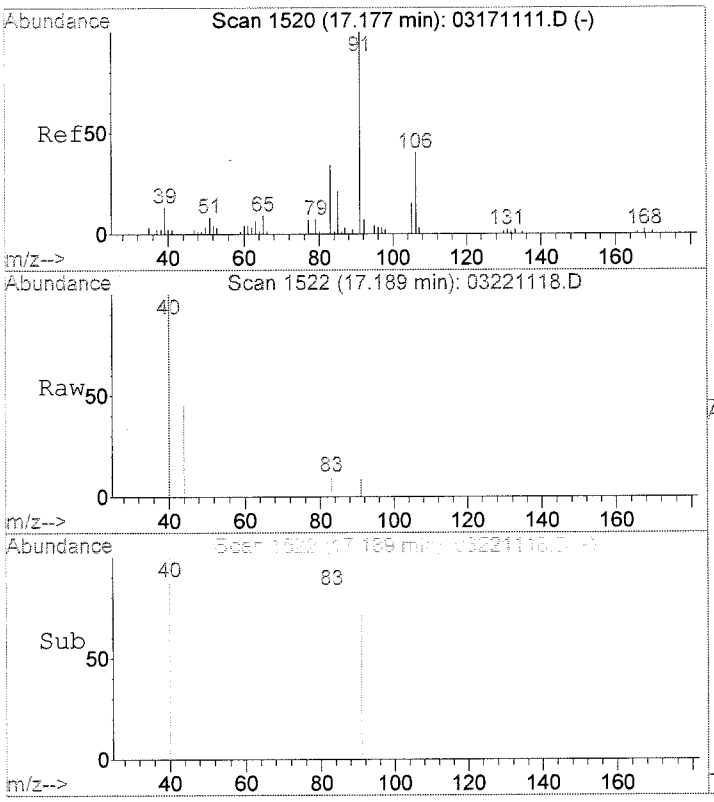


#46
Tetrachloroethene
Concen: 0.49 ug/L
RT: 15.20 min Scan# 1287
Delta R.T. -0.01 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion:166 Resp: 2325

Ion	Ratio	Lower	Upper
166	100		
168	46.7	37.9	56.9
129	76.7	59.8	89.8

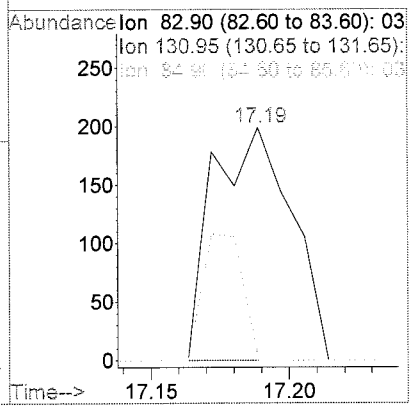


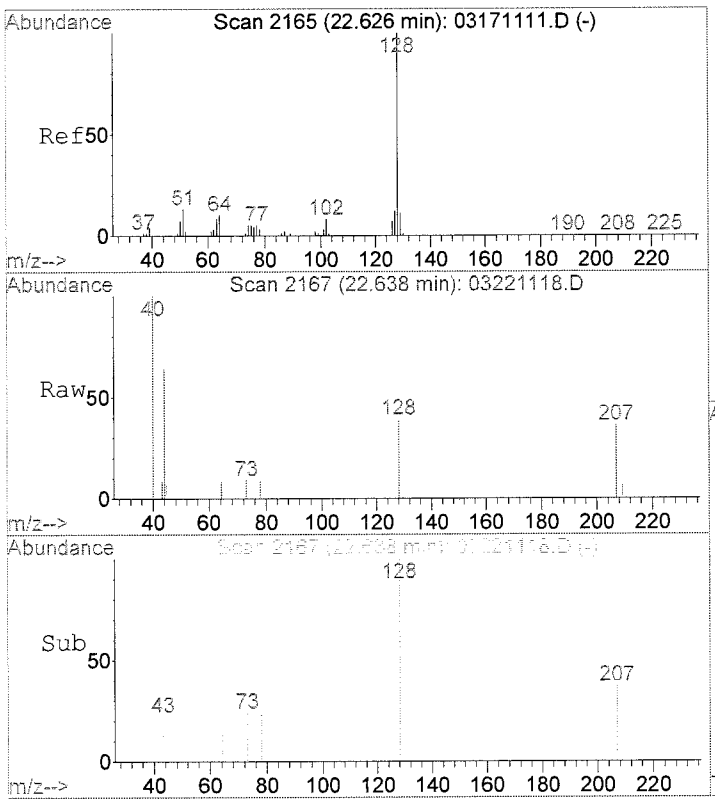


#56
1,1,2,2-Tetrachloroethane
Concen: 0.11 ug/L
RT: 17.19 min Scan# 1522
Delta R.T. 0.01 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion: 83 Resp: 393

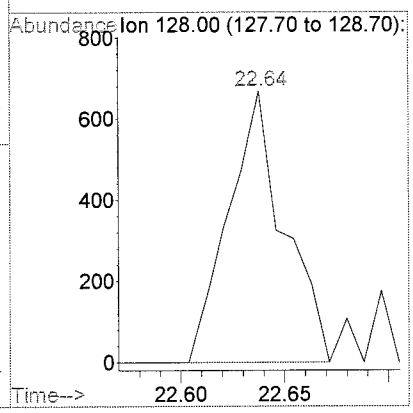
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.9	8.9#
85	27.5	50.6	76.0#





#74
Naphthalene
Concen: 0.20 ug/L
RT: 22.64 min Scan# 2167
Delta R.T. 0.01 min
Lab File: 03221118.D
Acq: 22 Mar 2011 3:12 pm

Tgt Ion:128 Resp: 1242



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DIGESTION and/or EXTRACTION

METHOD: EPA 3520C

Work Order:

PUC1004-01

PREPARATION BENCH SHEET

11C0614

TestAmerica Phoenix

Printed: 3/18/2011 12:3 PM

Matrix: Water **Prepared using: N_GCMS Semivolatiles - EPA 3520C** **Surrogate used: I 532**

Lab Number	C	Analysis	Prepared	Initial (ml)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
11C0614-BLK1		QC	03/16/11 16:35	1000	1						100				
11C0614-BS1		QC	03/16/11 16:35	1000	1		PT05700	200			100				
11C0614-BSD1		QC	03/16/11 16:35	1000	1		PT05700	200			100				
11C0614-MS1		QC	03/16/11 16:35	1000	1	PUC0982-02	PT05700	200			100				
11C0614-MS2		QC	03/16/11 16:35	1000	1	PUC0911-02	PT05700	200			100				
11C0614-MSD1		QC	03/16/11 16:35	1000	1	PUC0982-02	PT05700	200			100				
11C0614-MSD2		QC	03/16/11 16:35	1000	1	PUC0911-02	PT05700	200			100				
PUC0911-01	D	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC0911-02	I	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				MS/MSD
PUC0911-03	E	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC0911-04	E	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC0911-05	D	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC0982-01	D	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC0982-02	H	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				MS/MSD
PUC0982-03	E	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC0982-04	D	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC1002-01	D	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				
PUC1004-01	E	N_1,4-Dioxane (SW82	03/16/11 16:35	1000	1						100				Level 3

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

[signature] 3/21/11
Preparation Reviewed By Date

Extracts Received By Date

TestAmerica Phoenix ☐Check box if the back of the previous page is used for additional noted, comments, or calculations. The use of other scratch paper is strictly prohibited.

Extraction Date: 03-16-11 **Liquid/Liquid Extraction Record** Test Code: 1,4 Dioxane

LIMS Batch No: BNA031611A Element No.: 110614 Analytical Method: 3520 LL

Solvent/Lot No.1. DCM/J45801 2. — Final Sol.: DCM/J45801 Na_2SO_4 Lot #: —

Acid/Base/Lot No.1. — 2. — 3. —

Surrogate: Mod8270 Conc. 200ppm Volume: 100uL Std. ID#: PU01532 Exp Date 9/14/11 KP

Spike #1: 1,4 Dioxane Conc. 100ppm Volume: 200uL Std. ID#: PU05700 Exp Date 10/31/13 KP

Spike #2: — Conc. — Volume: — Std. ID#: — Exp Date —

Spike #3: — Conc. — Volume: — Std. ID#: — Exp Date —

Spike #4: — Conc. — Volume: — Std. ID#: — Exp Date —

Start Time: 1635 End Time: 1830 3-17-11 Spiked By: KA Spike Witness: KP

K-D'd by: Dm E-vap'd by: Dm Solvent Ex'd by: NA Brought to V_f & Vialed by: Dm

	Sample #	RE	Sample Frac.	pH[1]		Initial Vol/Wt (mLs/g)	Final Vol. (mLs)	K-D'd (√)	Evp'd (√)	Clean Up[2]	Color	Sample linked at:
1	MB	NA	NA	5	NA	1L	1mL	✓	✓	NA	Clear	NA
2	LCS			5		1L	1mL	✓	✓		Clear	
3	LCSD			5		1L	1mL	✓	✓		Clear	
4	MS PUC0982-02		G	7		1L	1mL	✓	✓		Clear	
5	MSD PUC0982-02		J	7		1L	1mL	✓	✓		Clear	
6	~~REV~~ MS PUC0911-02		J	7		1L	1mL	✓	✓		Clear	
7	MSD PUC0911-02		G	7		1L	1mL	✓	✓		Clear	
8	PUC0911-01		D	7		1L	1mL	✓	✓		Clear	
9	PUC0911-02		I	7		1L	1mL	✓	✓		Clear	
10	PUC0911-03		E	7		1L	1mL	✓	✓		Clear	
11	PUC0911-04		E	7		1L	1mL	✓	✓		Clear	
12	PUC0911-05		D	7		1L	1mL	✓	✓		Clear	
13	PUC0982-01		D	7		1L	1mL	✓	✓		Clear	
14	PUC0982-02		H	7		1L	1mL	✓	✓		Clear	
15	PUC0982-03		E	7		1L	1mL	✓	✓		Lt Yellow	
16	PUC0982-04		D	7		1L	1mL	✓	✓		Clear	
17	PUC1002-01		D	7		1L	1mL	✓	✓		Clear	
18	PUC1004-01		E	7		1L	1mL	✓	✓		Clear	
19												
20												
21												
22						Dm 3-17-11						
23												
24												
25												

[1]Sample pH / Adjusted pH; [2]AW is Acid Wash, DW is DCM wash.

a = Acid Fraction, b = base/neutral fraction

___ Insufficient Sample for MS/MSD ___ MS/MSD Designated ✓ MS/MSD Chosen ✓ Sample Container(s) Shaken & Rinsed with Solvent

Sample Extracts located in: Box# _____ Row(s) & Numbers _____ BNA Freezer ✓ SVOA's Fridge ____

Comments: _____

Reviewer Signature: _____ Date: _____

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THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD

MODIFIED EPA 8270C

DATE: 01/05/11

Work Order: PUC1004-01

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-QAD-022, Rev. 0
Effective Date: 08/18/2008
Page No.: 1 of 1

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270 C	Instrument#: CCMS 14
Analyst: C. Lauric	Analysis Date: 01-05-11	

Method name saved in the file: DIUXANE\010511.M

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9) 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   List of the analytes:
   Why?
5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst: C Lauric	Date: 1-5-11
	Reviewer: Jessica Breuchen	Date: 01/05/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-QAD-022, Rev. 1
Effective Date: 09/30/2010
Page No.: 1 of 1

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270C	Instrument #: GCMS14
Analyst: C. Lauric	Analysis Date: ~~3/25/11~~ 01/05/11	3/01/11

Method name saved in the file: DIPANE \ 010511 D.M

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
2. Did the calibration curve pass the method criteria? Y N
3. Were any points of the curve removed or replaced? Y N

   If yes, what points were removed or replaced: lowest middle highest

   Why?

4. Were any individual analyte points removed? Y N

   If yes, what points were removed or replaced: lowest middle highest

   List of the analytes:

   Why?

   update due to RT shift.

5. Circle the calibration model used (you may circle one or more)
   - ☐ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: Y N

Review Signatures:	Analyst: C Lauric	Date: 3/01/2011
	Reviewer: Jessica Bruchell	Date: 03/01/11

EPA 8270C Modified 1,4-Dioxane by Isotope Dilution, Extraction & GC/MS Analysis
Data Review Checklist (Example)

ANALYSIS DATE: 6-05-11

	MEETS CRITERIA?
1. DFTPP (50ng) VERIFY MEETS CRITERIA EVERY 12 HOURS	(Y) N
2. INITIAL CALIBRATION CURVE (MIN. 5 LEVELS) DATE: 010511.M	Y / N
- SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05	Y / N
- CCC 1,4-DICHLOROBENZENE < 30% RSD, 1,4-DIOXANE ≤ 20% RSD	Y / N
- ALL OTHER COMPOUNDS < 15% RSD OR USE CURVE (r^2 > 0.990)	Y / N
TAILING FACTOR B/N BENZIDENE: 3.0	Y / N
3. INITIAL CALIBRATION VERIFICATION (SEC. SOURCE) ANALYZED	Y / N
4. CONTINUING CALIBRATION CHECK (EVERY 12 HOURS)	
- SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05	Y / N
- CCC 1,4-DICHLOROBENZENE < 20% D; 1,4-DIOXANE ≤ 20%	Y / N
- IS 1,4-DCB-d4 AREA –50% TO –100% TO MID-POINT IN I. CAL	Y / N
- IS 1,4-DCB-d4 RT ± 30 SEC. TO MID-POINT IN INITIAL CALIB.	Y / N
- TAILING FACTOR B/N BENZIDENE. 3.0	Y / N
5. METHOD BLANK	Y / N
- ANALYZE ONE PER BATCH (< 20 SAMPLES)	Y / N
- 1,4-DIOXANE MUST BE < REPORTING LIMIT	
6. LCS/LCSD WITHIN LIMITS	Y / N
- MUST BE ANALYZED PER 20 SAMPLES/BATCH	Y / N
- % RECOVERY WITHIN 80 – 120% LIMITS	Y / N
- RPD WITHIN LIMITS (≤ 25 RPD)	

Continued on next page

7. MS/MSD
   - MUST BE ANALYZED PER 20 SAMPLES/BATCH Y / N
   - % RECOVERY WITHIN 70 – 130% LIMITS Y / N
   - RPD WITHIN LIMITS (≤ 25 RPD) Y / N

8. SAMPLES
   - EXTRACTED WITHIN 7 DAYS OF SAMPLING Y / N
   - ANALYZED WITHIN 40 DAYS OF EXTRACTION Y / N
   - IS 1,4-DCB-d4 RT ± 30 SECs AND IS AREA –50% TO +100% TO CONT. CAL Y / N
   - SURROGATE RECOVERIES WITHIN LIMITS Y / N

9. TUNE INJECTED WITHIN 12hr TIME PERIOD Y / N

COMMENTS:

ANALYST: DATE: 1-5-11

REVIEWER: DATE:

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.D
9 =01051114.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	ISTD										
2)	C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3)	I	1,4-Dichlorobenzen...	ISTD										
4)	C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5)	P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6)	S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

G 1.5-11

010511

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

update RT shift on 2-28-11

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.D
9 =01051114.D

	Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) I	1,4-Dioxane-d8	ISTD										
2) C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3) I	1,4-Dichlorobenzen...	ISTD										
4) C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5) P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6) S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

3/01/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/11
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Jan 05 13:29 2011	Jan 05 12:20 2011	

1.5-11

010511.M Wed Jan 05 13:33:03 2011

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	R:\022511\02251108.D used to update due to RT shift

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/2011
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Feb 28 10:27 2011	Feb 28 10:27 2011	25 Feb 2011 6:23 pm

CR 2/28/11

010511D.M Mon Feb 28 10:59:27 2011

4/30/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.975	1.000	A	1	A	B
2	C	1,4-Dioxane	88	3.028	1.018	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	6.092	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	6.104	1.002	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.422	1.054	A	1	A	B
6	S	Nitrobenzene-d5	82	6.557	1.076	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

)10511.M Wed Jan 05 13:33:14 2011

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.m

	CCV Response	ICAL Response	0.5X	2X	PASS/FAIL
Internal Standard 1,4-Dichlorobenzene-d4	243008	243008	121504	486016	PASS

	RT	RT	-0.5min	+0.5min	
Internal Standard 1,4-Dichlorobenzene-d4	6.09	6.09	5.59	6.59	PASS

update
a 1-5-11

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\

	NAME	RT	CCV RRT Value (Target/IS)	mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.975					
	1,4-Dioxane	3.028	1.0178	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	6.092					
	1,4-Dichlorobenzene	6.104	1.0019	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.422	1.0541	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.557	1.0763	1.0763	1.0163	1.1363	<-PASS

Update only.
Added in Revised
Review checklist for
1,4-Dioxane

03-09-11.

BB 0911

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥010511.S
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥010511¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	01051101	DB5MS14	DCM
2)	Sample	2	01051102	DB5MS14	DCM
3)	Sample	3	01051103	DB5MS14	25ng tune pu00017
4)	Sample	4	01051104	DB5MS14	25ng TUNE PU00017
5)	Sample	5	01051105	DIOXANE	BLANK
6)	Sample	6	01051106	DIOXANE	0.5ug/mL PU00059
7)	Sample	7	01051107	DIOXANE	1.0ug/mL PU00060
8)	Sample	8	01051108	DIOXANE	2.0ug/mL PU00061
9)	Sample	9	01051109	DIOXANE	4.0ug/mL PU00062
10)	Sample	10	01051110	DIOXANE	10ug/mL PU00063
11)	Sample	11	01051111	DIOXANE	20ug/mL PU00064
12)	Sample	12	01051112	DIOXANE	30ug/mL PU00065
13)	Sample	13	01051113	DIOXANE	40ug/mL PU00066
14)	Sample	14	01051114	DIOXANE	100ug/mL PU0067
15)	Sample	15	01051115	DIOXANE	QCS10ug/mL PU00068
16)	Sample	1	01051116	DIOXANE	~~10ug/mL PU00063ccv~~ PCM
17)	Sample	2	01051117	DIOXANE	10ug/mL PU00063ccv
18)	Sample	3	01051118	DIOXANE	11A0067-BLK1
19)	Sample	4	01051119	DIOXANE	PTL1256-03RE1
20)	Sample	5	01051120	DIOXANE	PTL1256-04RE1
21)	Sample	6	01051121	DIOXANE	PTL1256-06RE1
22)	Sample	7	01051122	DIOXANE	PTL1256-07RE1
23)	Sample	8	01051123	DIOXANE	PTL1262-01RE1
24)	Sample	9	01051124	DIOXANE	PTL1262-02RE1
25)	Sample	10	01051125	DIOXANE	PTL1256-10
26)	Sample	11	01051126	DIOXANE	PTL1262-01
27)	Sample	12	01051127	DIOXANE	PTL1262-02

a 1-5-11

a 1-5-11

a 1-6-11

Sequence Reviewed By: a Date: 1-6-11

Date Analyzed: 1-6-11 Analyst: a Date Run: 1-5-11

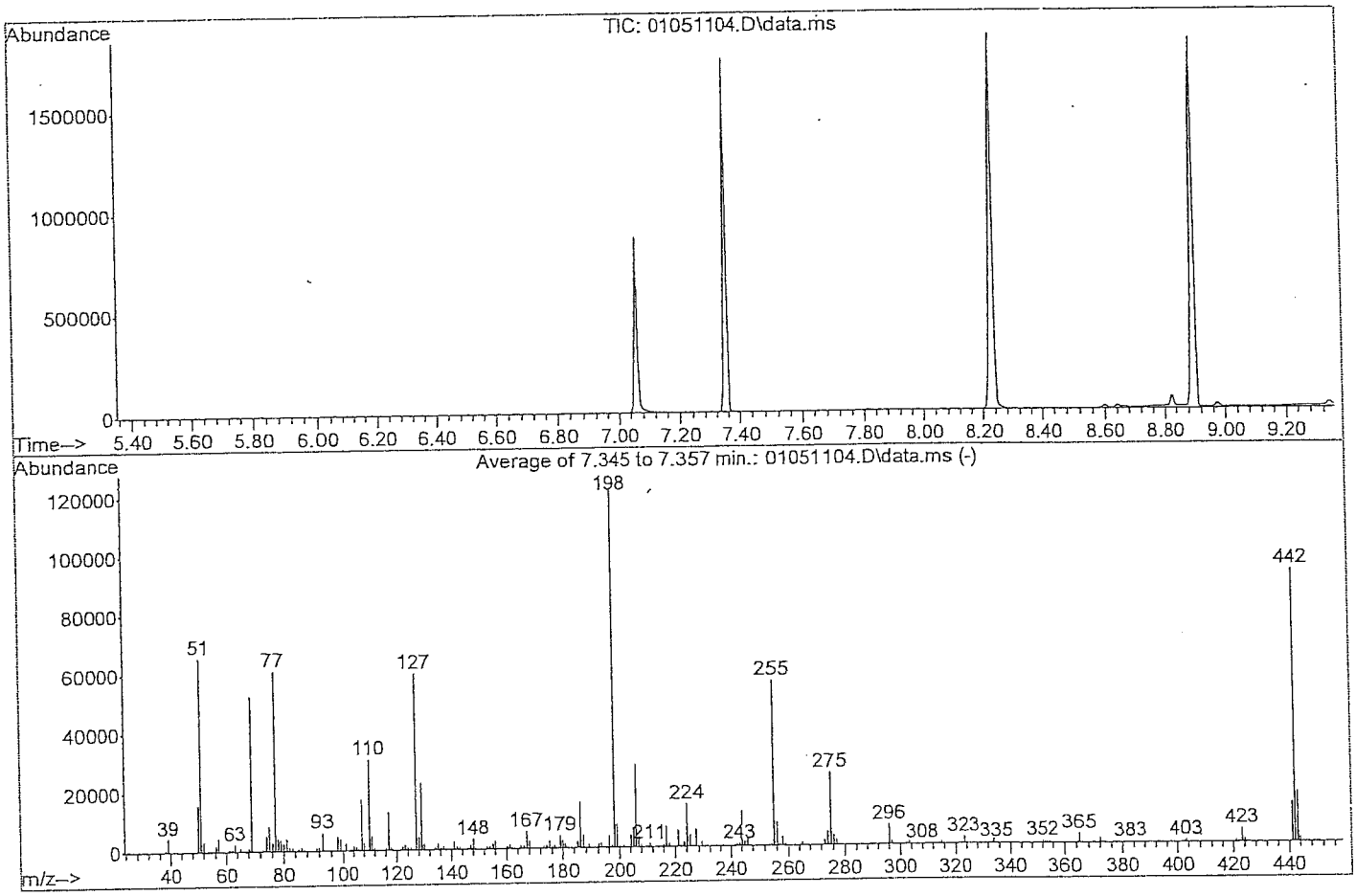
PX-SVD-024/A-05/08

DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
Last Update : Fri Sep 10 17:23:33 2010



AutoFind: Scans 963, 964, 965; Background Corrected with Scan 958

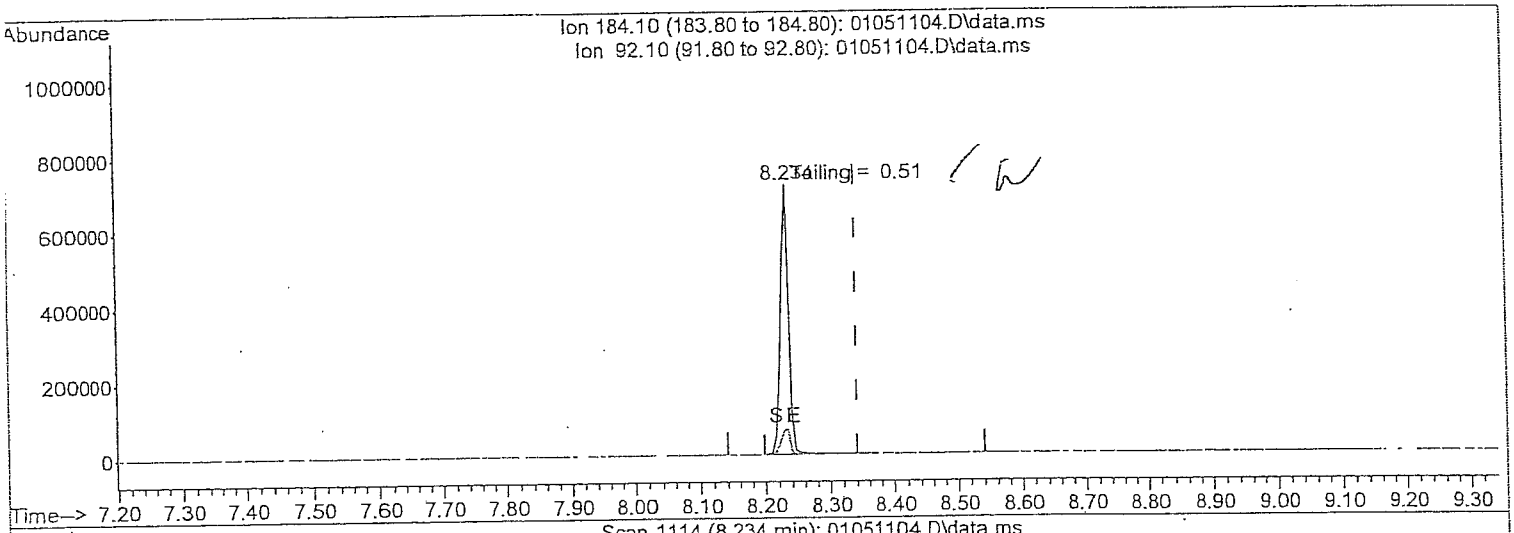
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.0	65567	PASS
68	69	0.00	2	1.8	948	PASS
69	198	0.00	100	43.2	52531	PASS
70	69	0.00	2	0.4	221	PASS
127	198	40	60	49.2	59789	PASS
197	198	0.00	1	0.7	889	PASS
198	198	100	100	100.0	121514	PASS
199	198	5	9	6.5	7948	PASS
275	198	10	30	20.3	24613	PASS
365	198	1	100	2.6	3102	PASS
441	443	0.01	100	78.5	13579	PASS
442	198	40	100	76.1	92525	PASS
443	442	17	23	18.7	17299	PASS

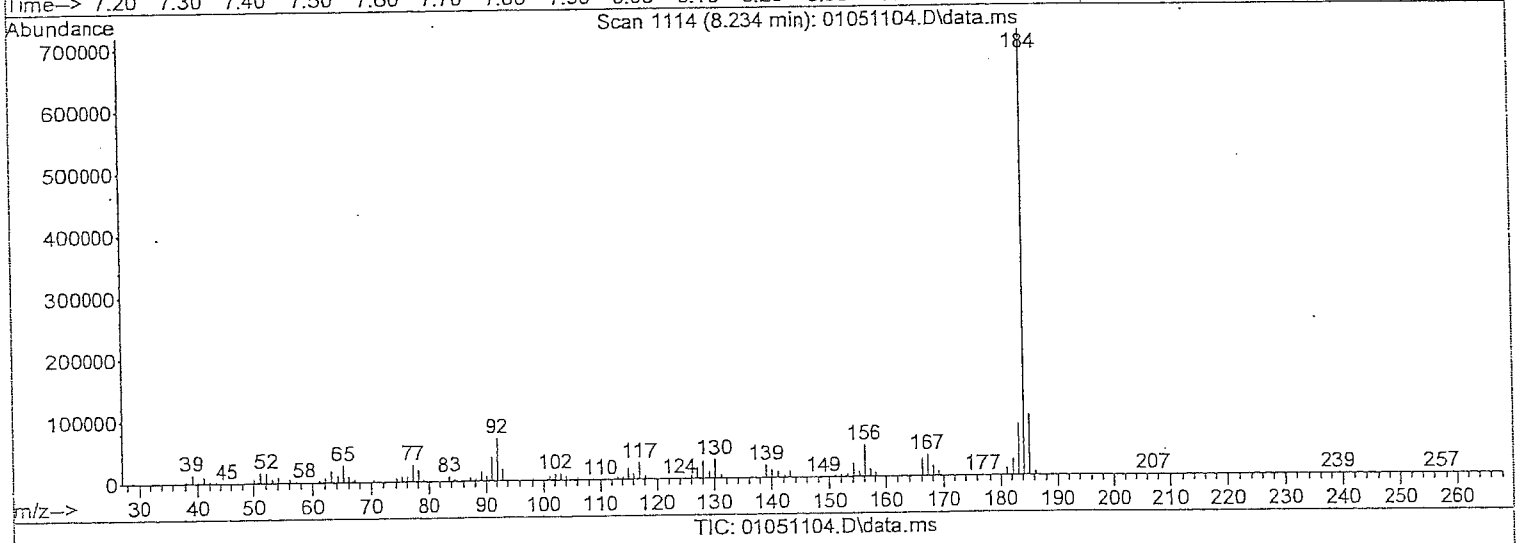
1.5.11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 11:46:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
QLast Update : Fri Sep 10 17:23:33 2010
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D





(2) Benzidine

8.234min (-0.106) 7.68

response 603050

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	300515	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	6.092	152	231052	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	0.000	82	0	0.00 ug/mL	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.999	88	49	0.00 ug/mL#	1
4) 1,4-Dichlorobenzene	6.092	146	306	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

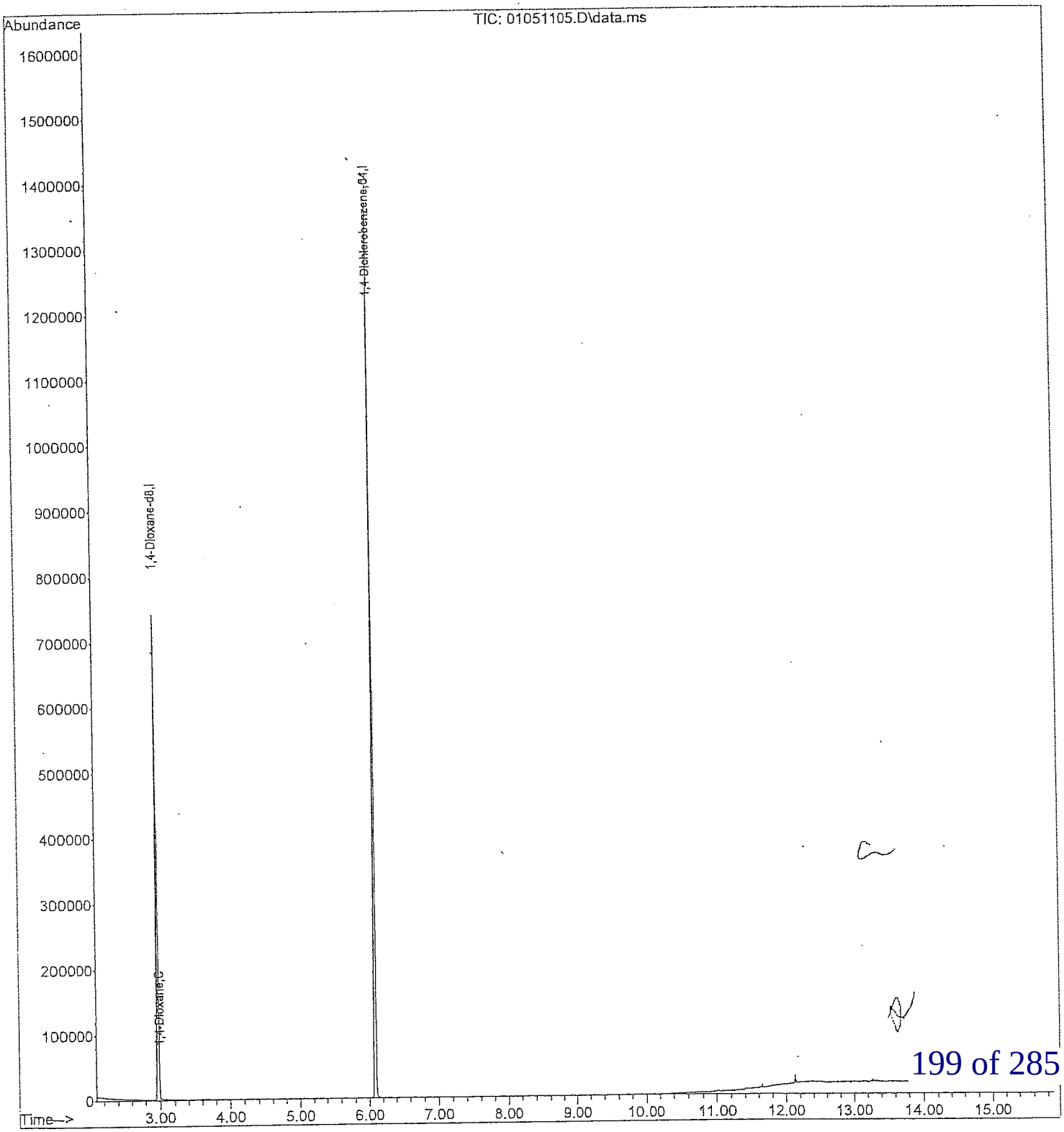
01-5-11

1/5/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

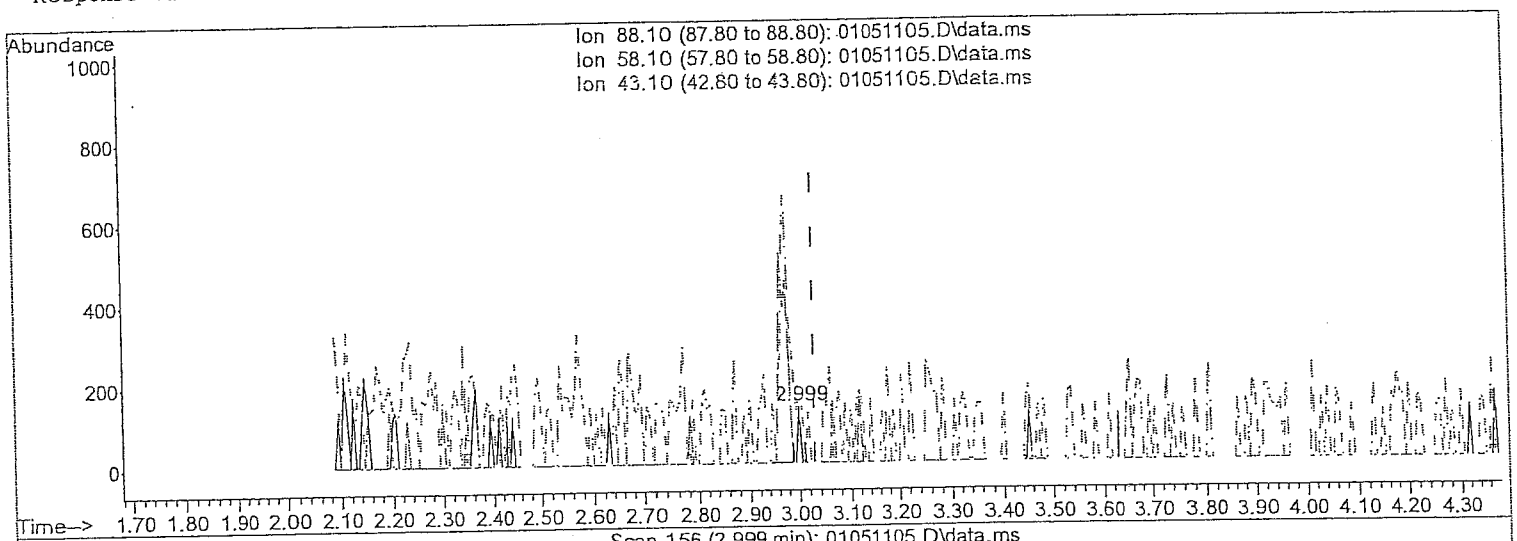
Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

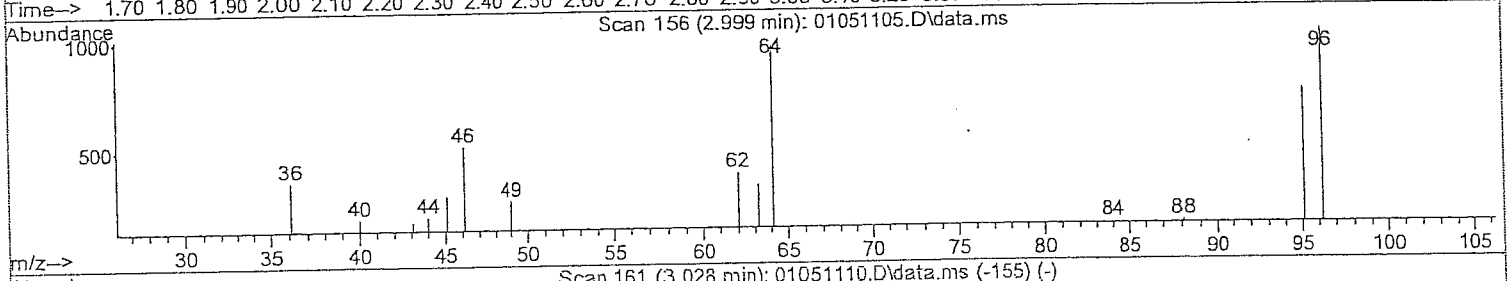


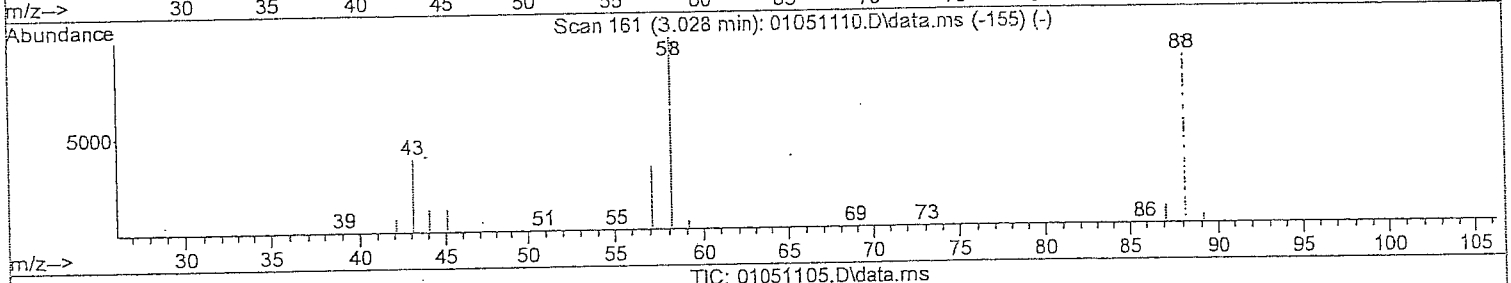
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration







TIC: 01051105.D\data.ms

(2) 1,4-Dioxane (C)

2.999min (-0.029) 0.00ug/mL

response 49

Ion	Exp%	Act%
88.10	100	100
58.10	97.60	1263.27#
43.10	39.30	2171.43#
0.00	0.00	0.00

ND ~1.5.11

D 010511

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Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.963	96	318261	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	240601	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	20080	0.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.016	88	7745	0.48 ug/mL	96
4) 1,4-Dichlorobenzene	6.104	146	19858	0.51 ug/mL	87
5) N-Nitrosodi-n-propylamine	6.422	70	12932	0.61 ug/mL	98

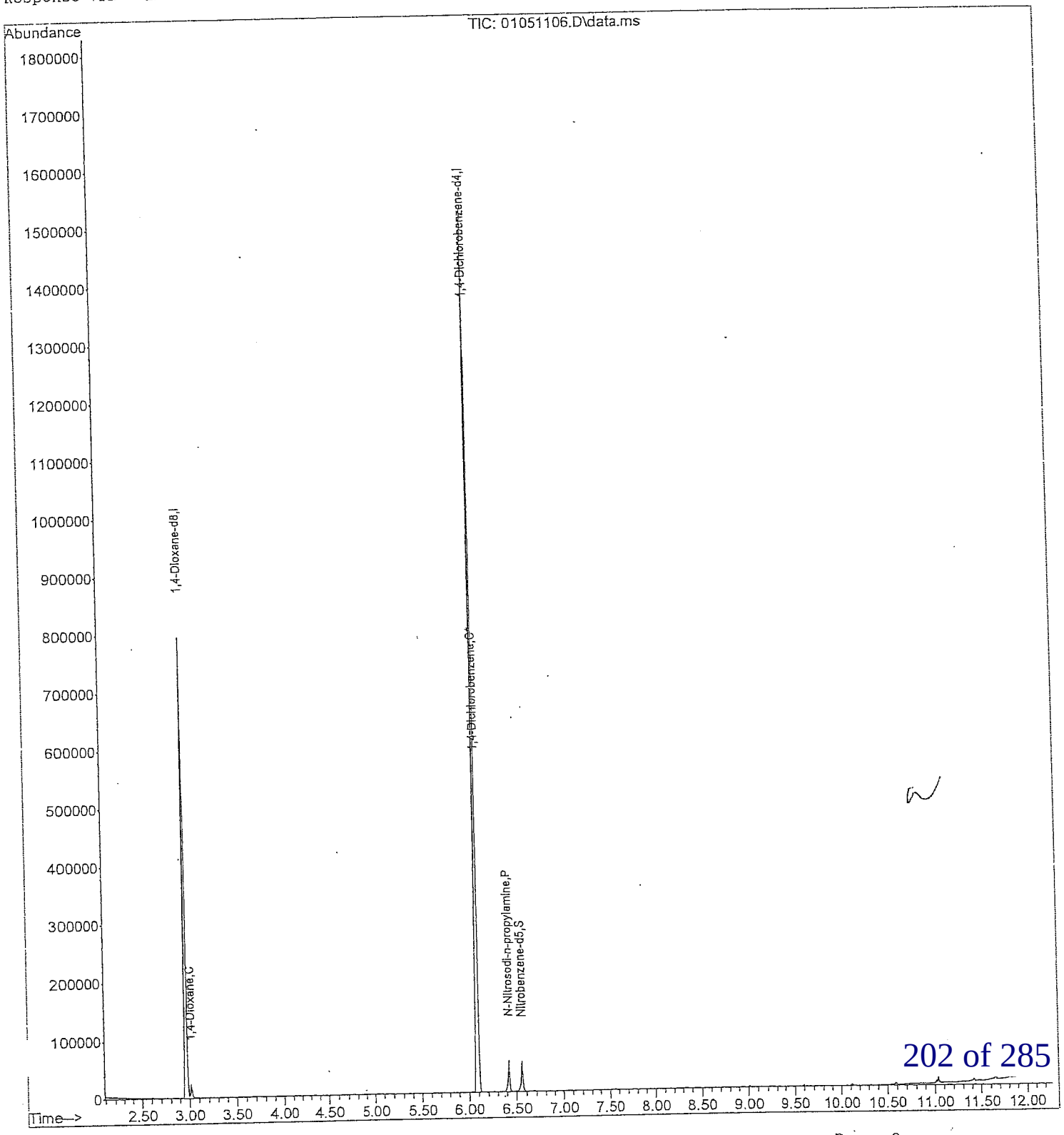
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01-5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	283387	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	213017	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	36439	1.28 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	14877	1.04 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	35480	1.03 ug/mL	95
5) N-Nitrosodi-n-propylamine	6.422	70	23862	1.28 ug/mL	96

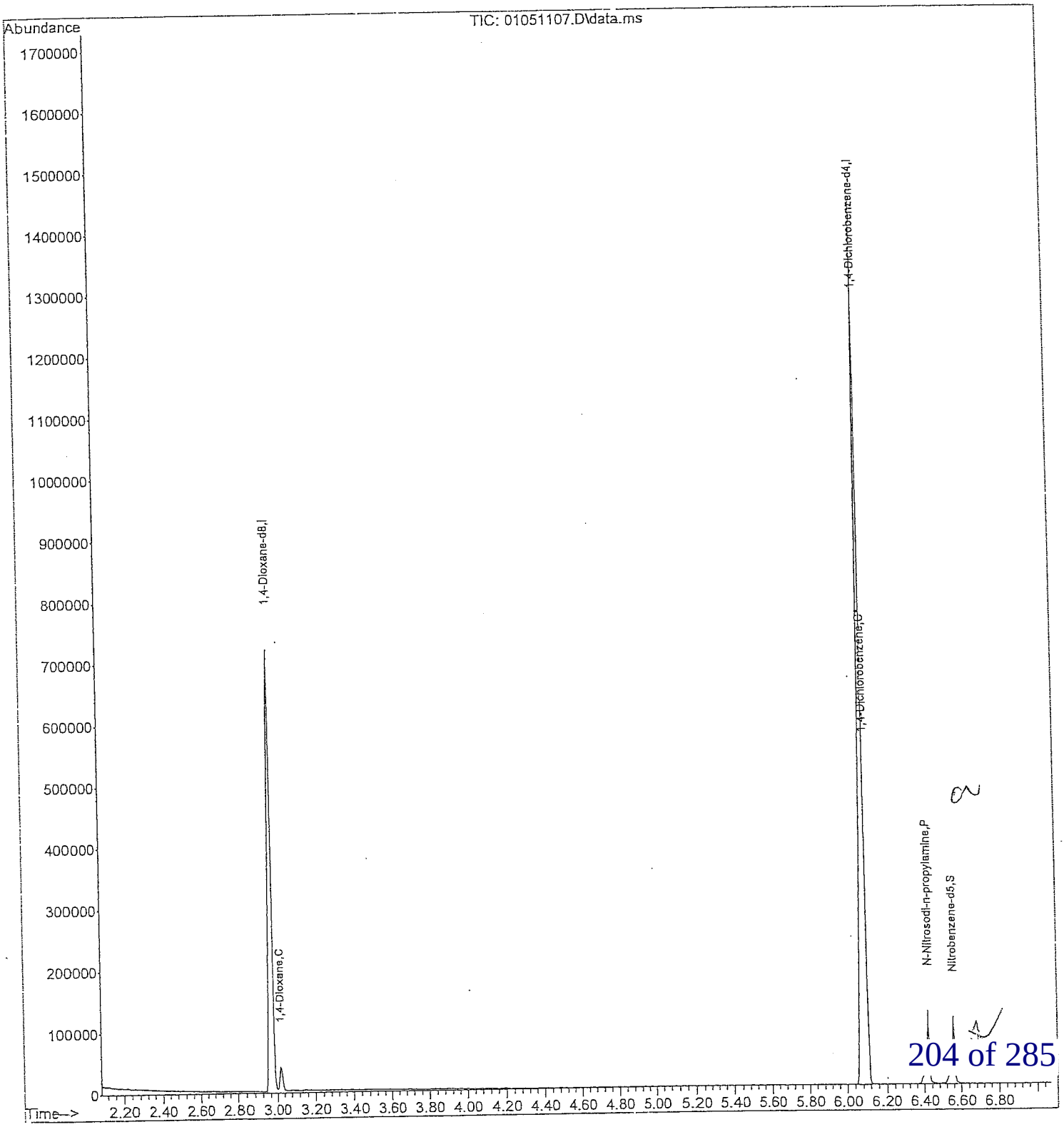
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01-5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	323796	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.087	152	240424	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	92526	2.87 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	34074	2.09 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	83920	2.15 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.416	70	59969	2.84 ug/mL	99

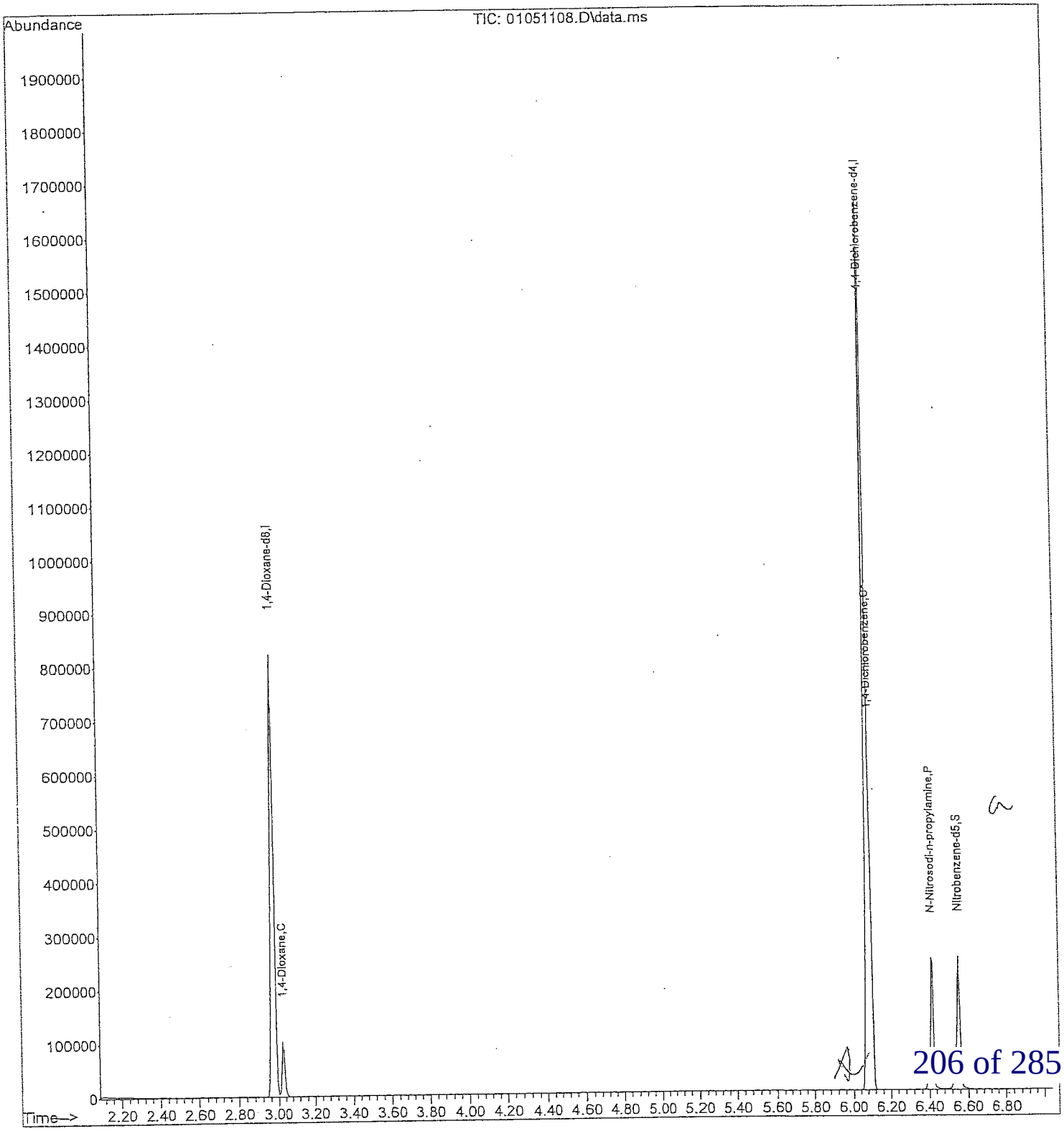
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.957	96	304589	20.00 ug/mL	0.01
3) 1,4-Dichlorobenzene-d4	6.092	152	229794	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	173101	5.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.004	88	65016	4.24 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	157766	4.23 ug/mL	98
5) N-Nitrosodi-n-propylamine	6.422	70	115445	5.73 ug/mL	98

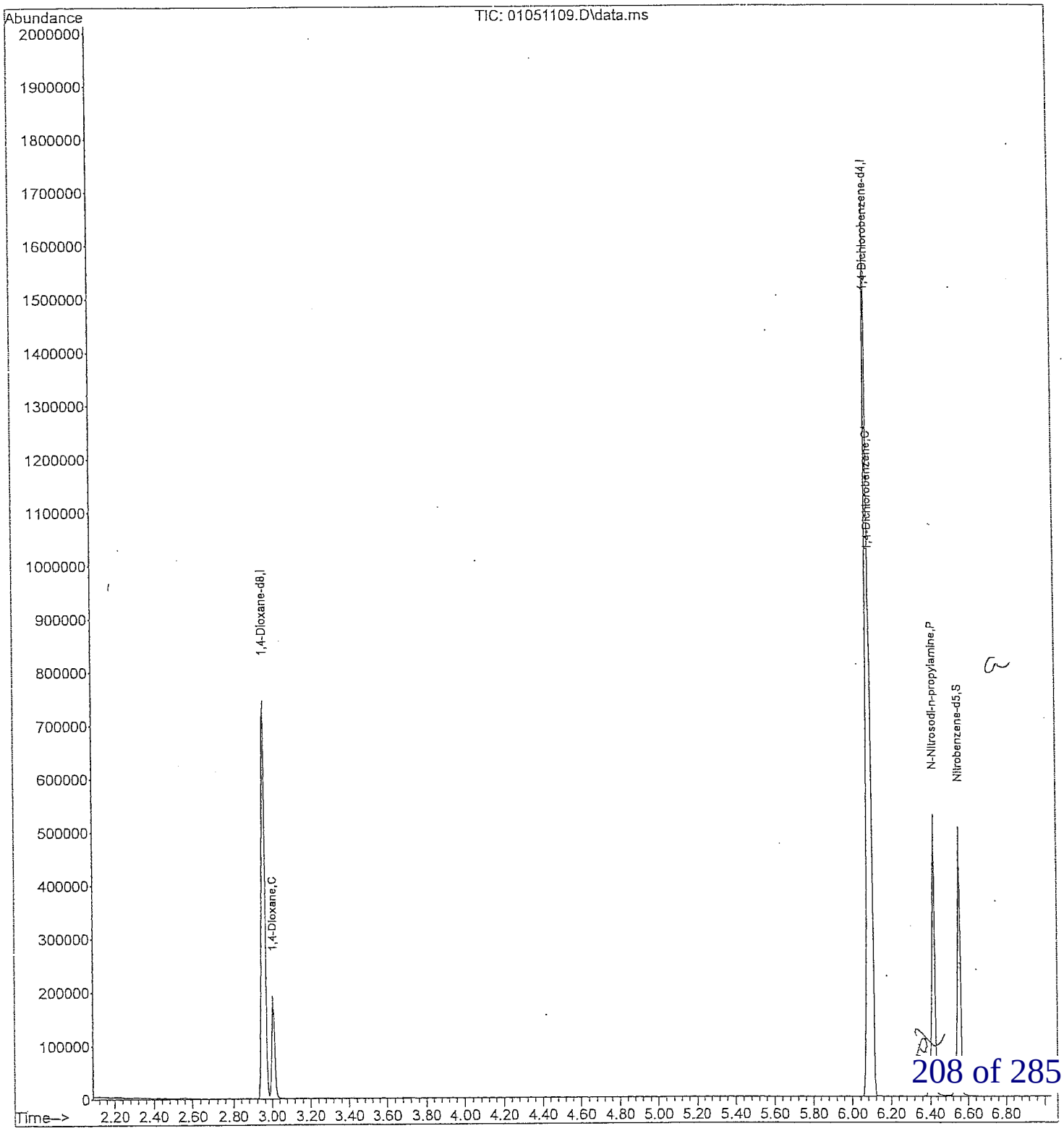
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) .CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	326940	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	243008	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	454083	13.94 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.028	88	171569	10.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	404965	10.27 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.422	70	304989	14.31 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

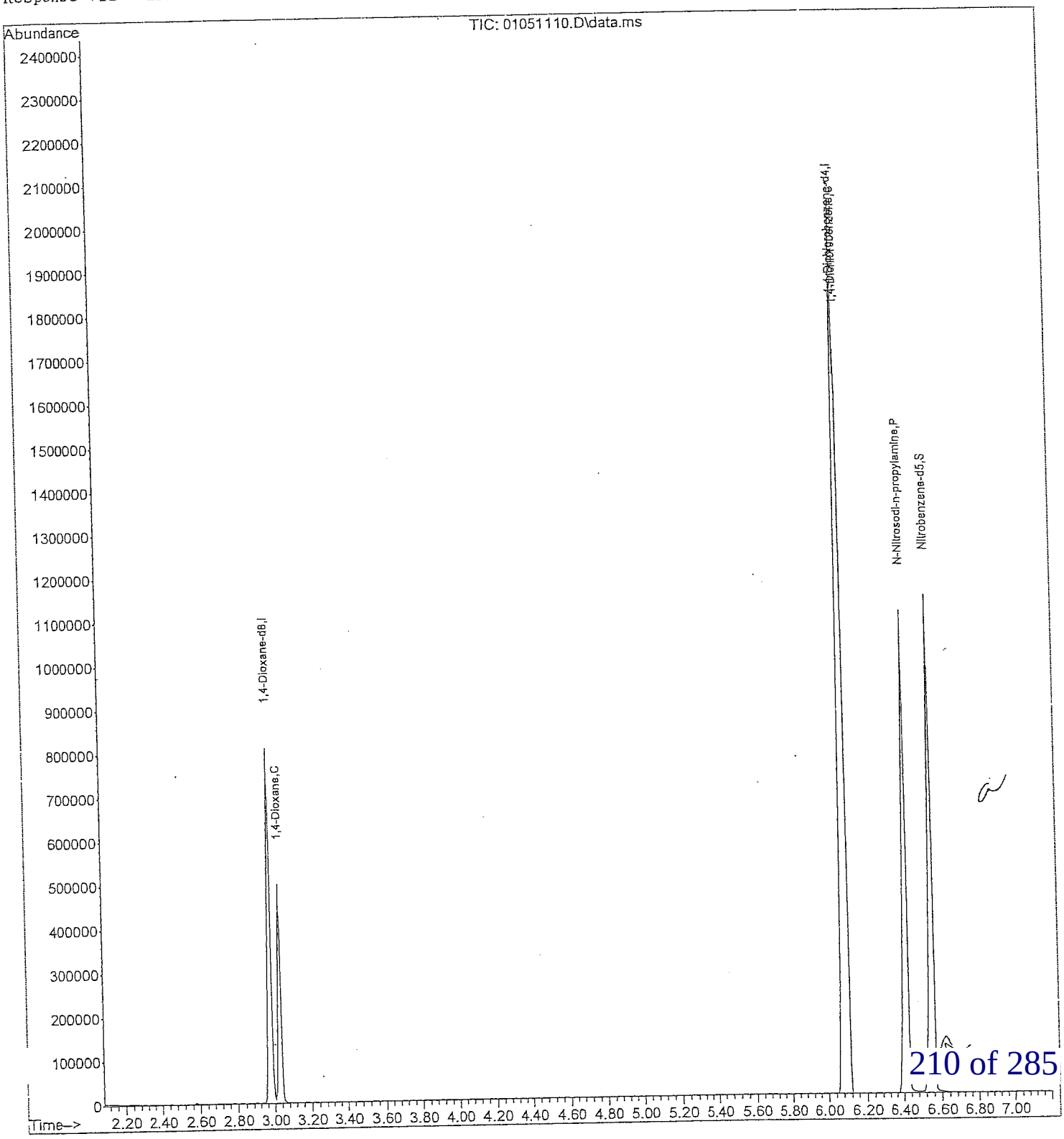
01.5.11

Final

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.892	96	258958	20.00 ug/mL	-0.05
3) 1,4-Dichlorobenzene-d4	6.092	152	185062	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	670408	27.02 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.951	88	261828	20.07 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	613271	20.43 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	453173	27.92 ug/mL	99

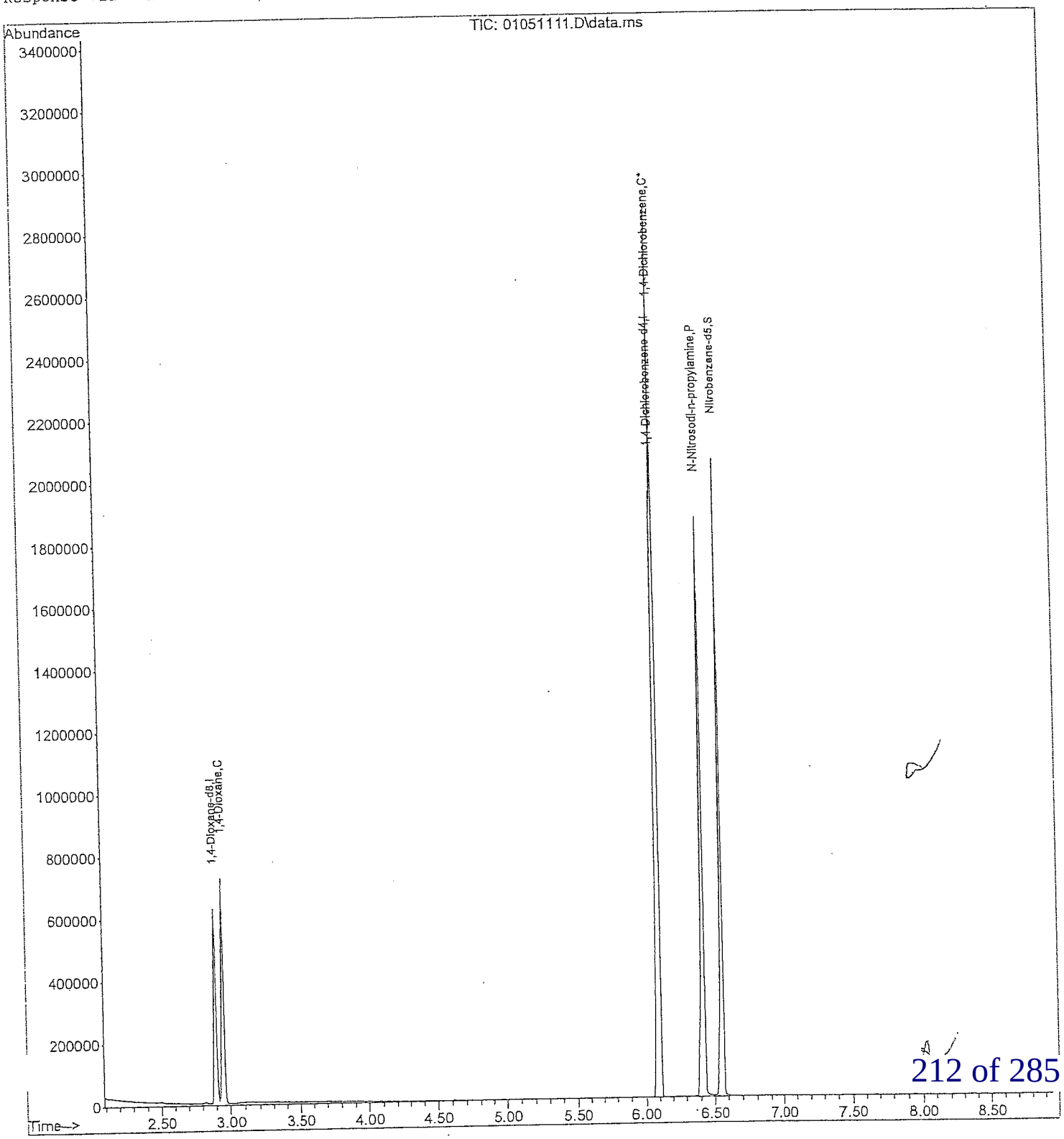
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	330882	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	235894	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	1276344	40.36 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.040	88	495415	29.72 ug/mL	98
4) 1,4-Dichlorobenzene	6.104	146	1137949	29.74 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	858130	41.47 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

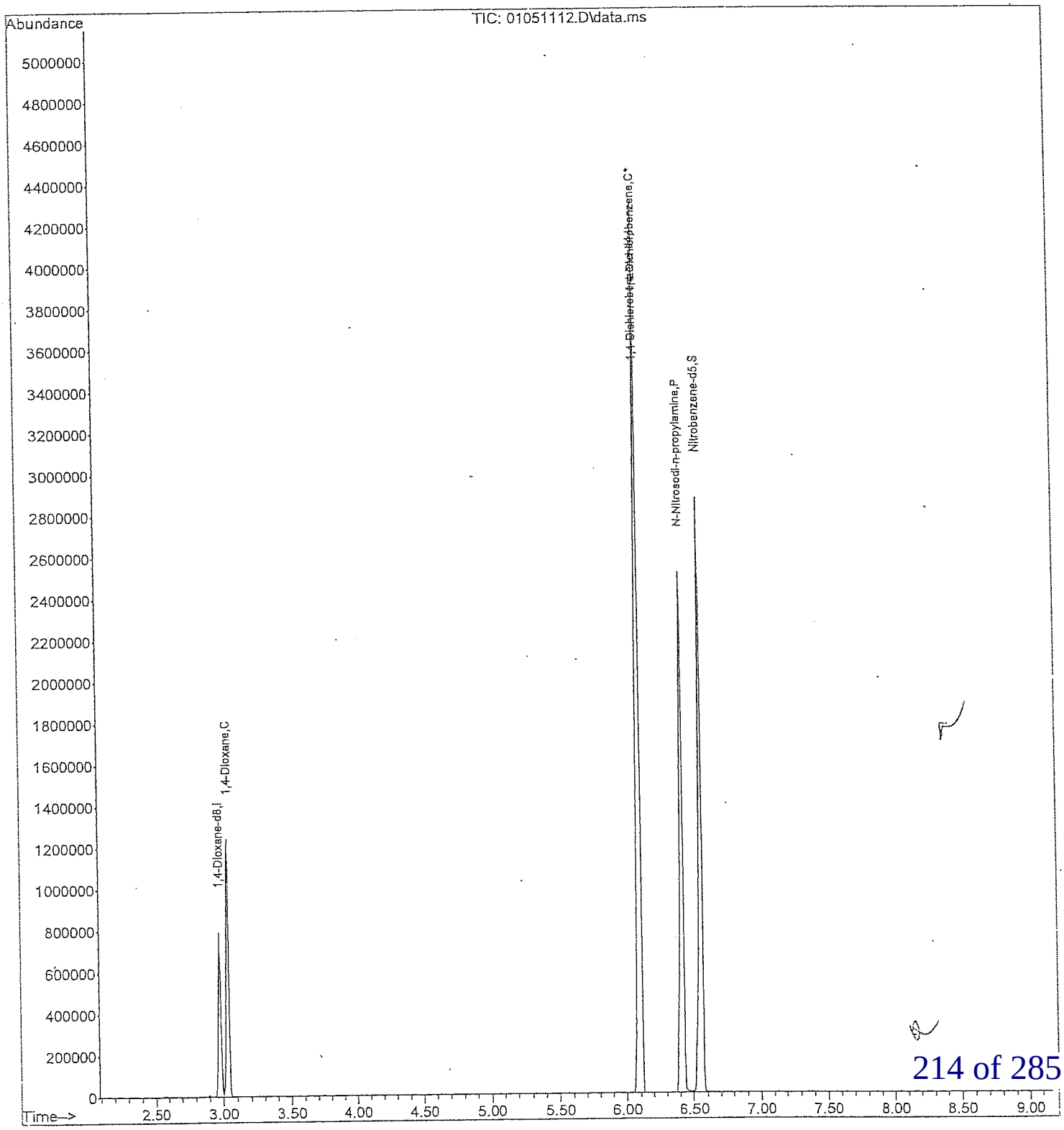
01.5.11

Final

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.875	96	235570	20.00 ug/mL	-0.07
3) 1,4-Dichlorobenzene-d4	6.093	152	170137	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.569	82	1198475	52.55 ug/mL	0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.940	88	479723	40.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.110	146	1084666	39.30 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.434	70	813006	54.48 ug/mL	100

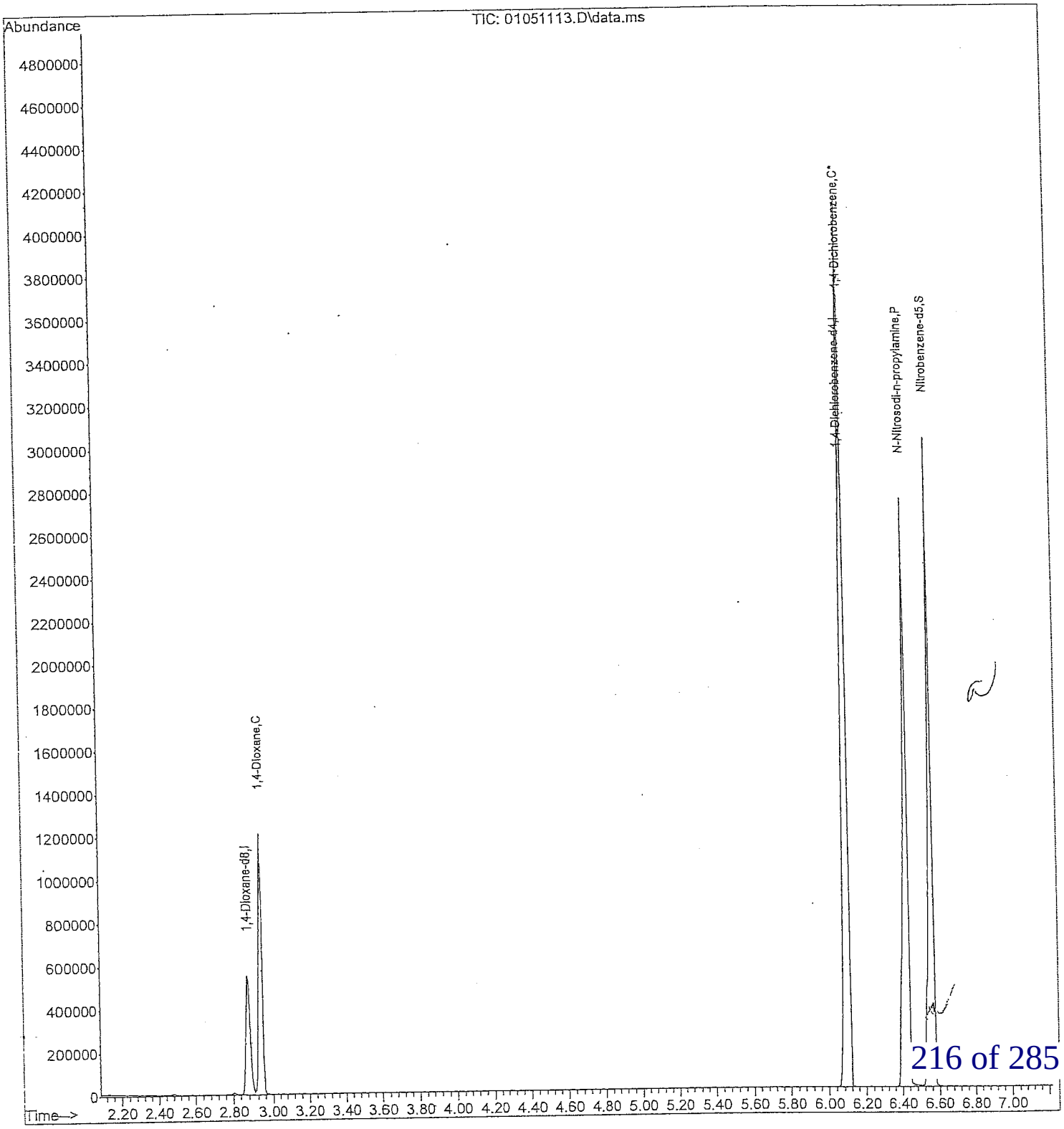
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm.
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.787	96	203549m	20.00 ug/mL	-0.16
3) 1,4-Dichlorobenzene-d4	6.092	152	140662	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.581	82	2386881	126.59 ug/mL	0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.863	88	957052m	93.33 ug/mL	
4) 1,4-Dichlorobenzene	6.110	146	2103702	92.19 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.451	70	1646696	133.46 ug/mL	99

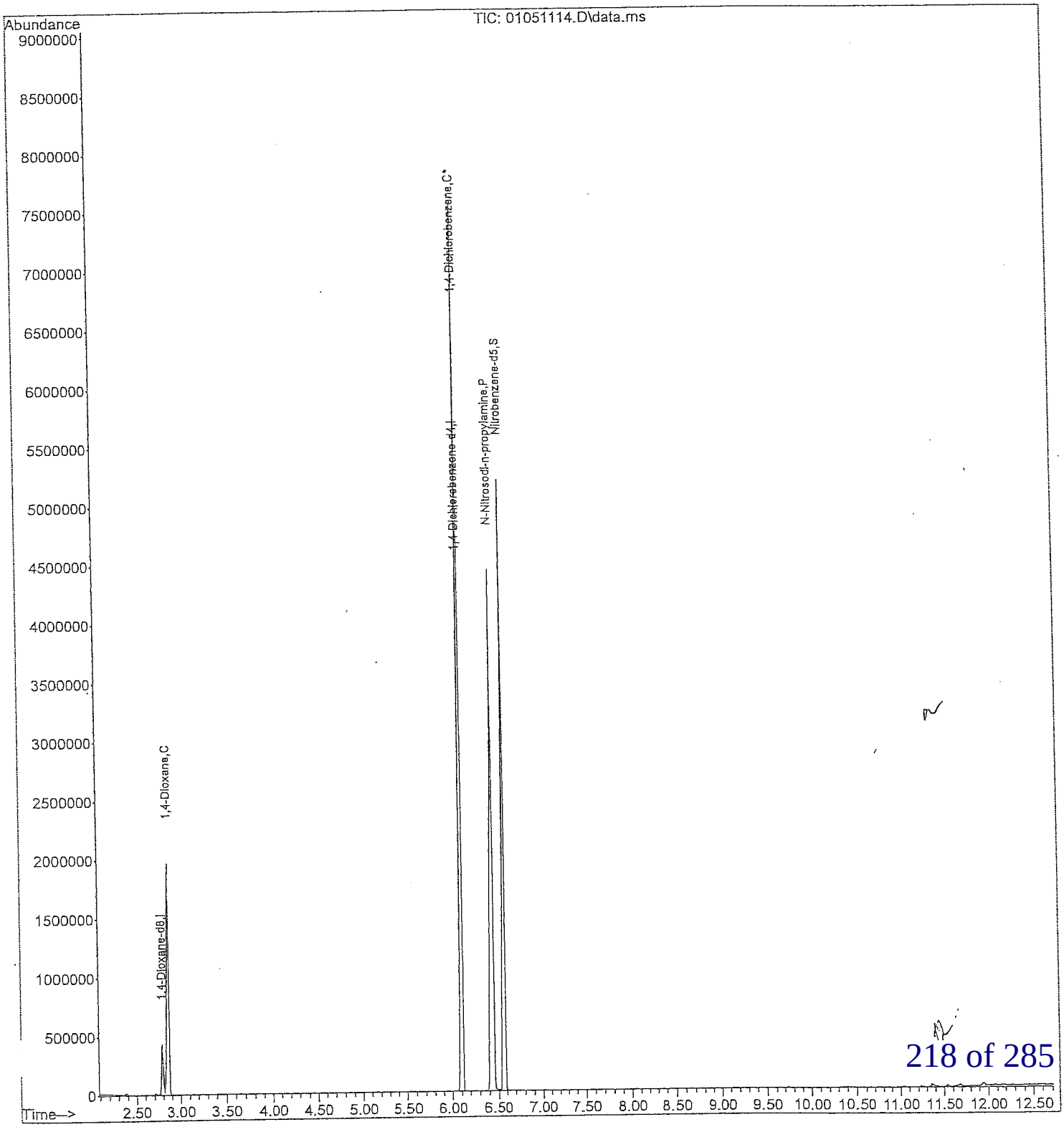
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

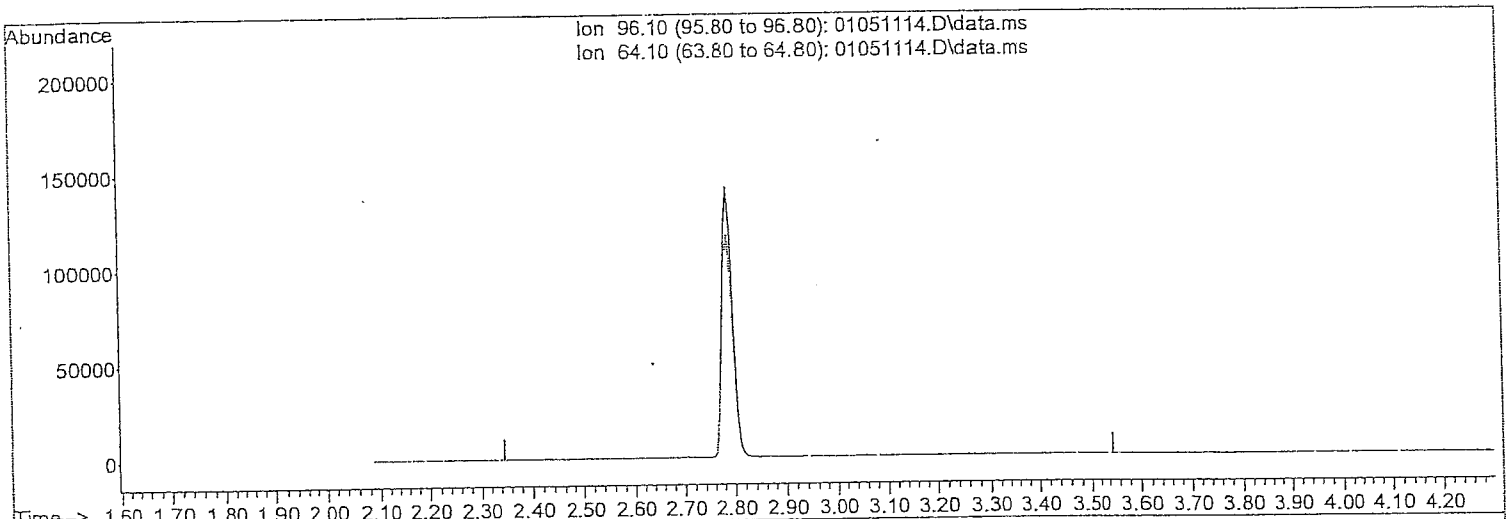
Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

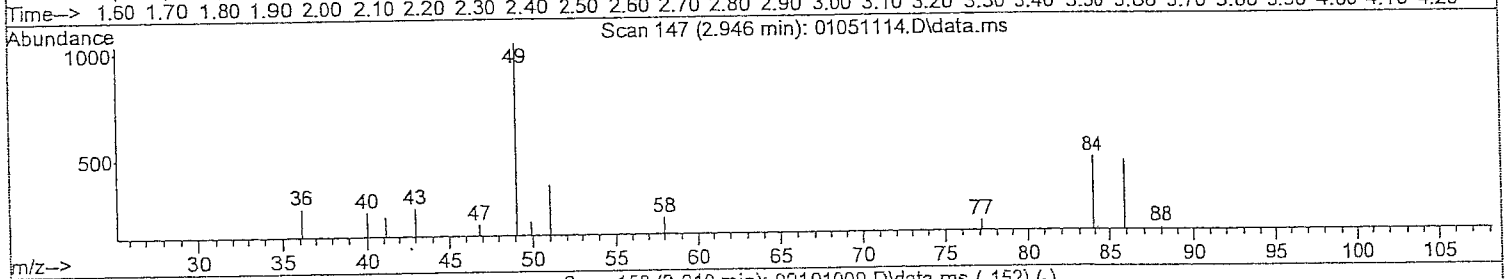


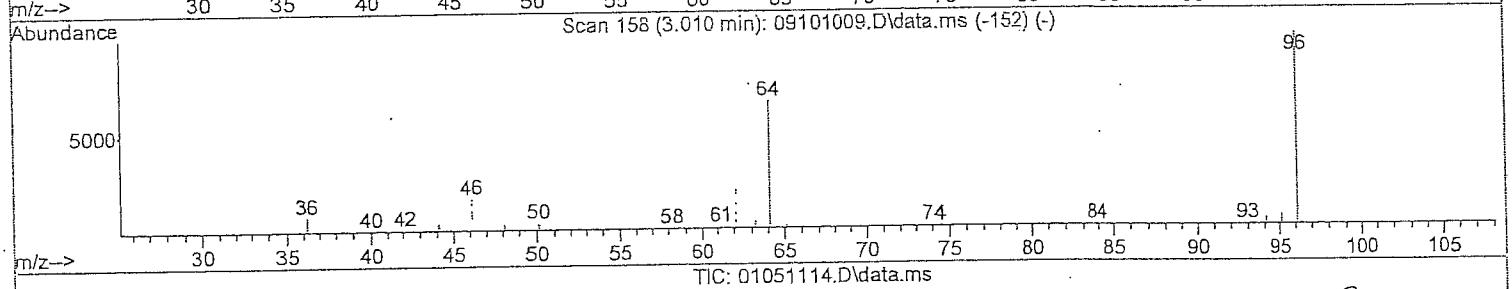
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







(1) 1,4-Dioxane-d8 (I)

2.946min (-2.946) 0.00ug/mL

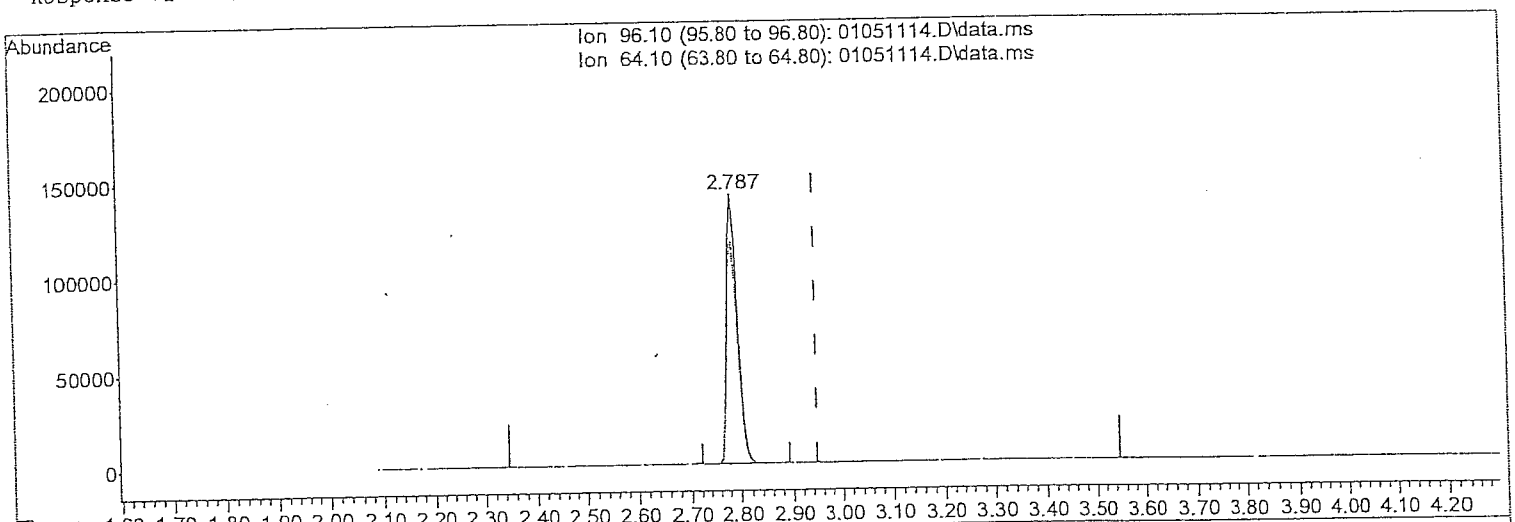
response 0

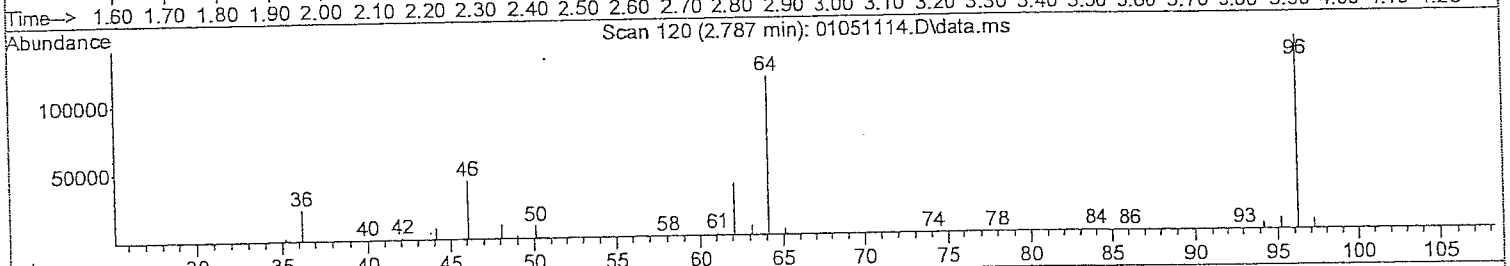
Ion	Exp%	Act%
96.10	100	0.00
64.10	83.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

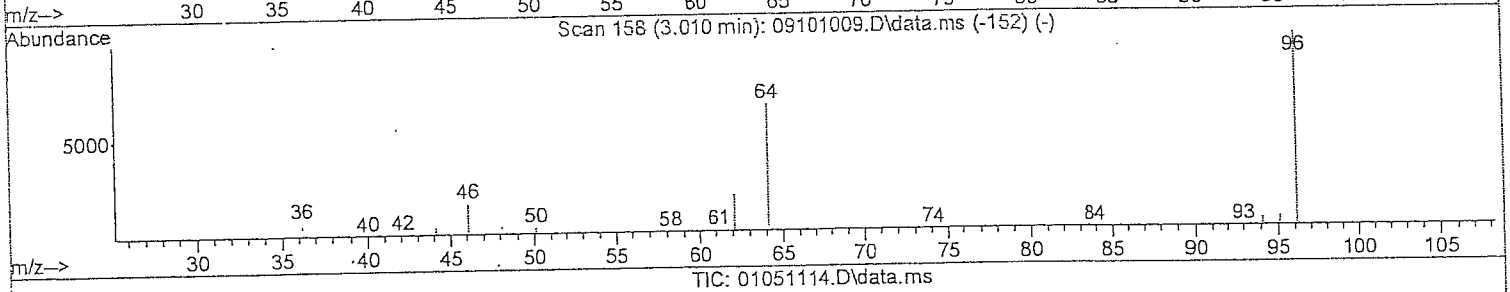
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

(1) 1,4-Dioxane-d8 (I)

2.787min (-0.159) 20.00ug/mL m

response 203549

Ion	Exp%	Act%
96.10	100	100
64.10	83.80	83.74
0.00	0.00	0.00
0.00	0.00	0.00

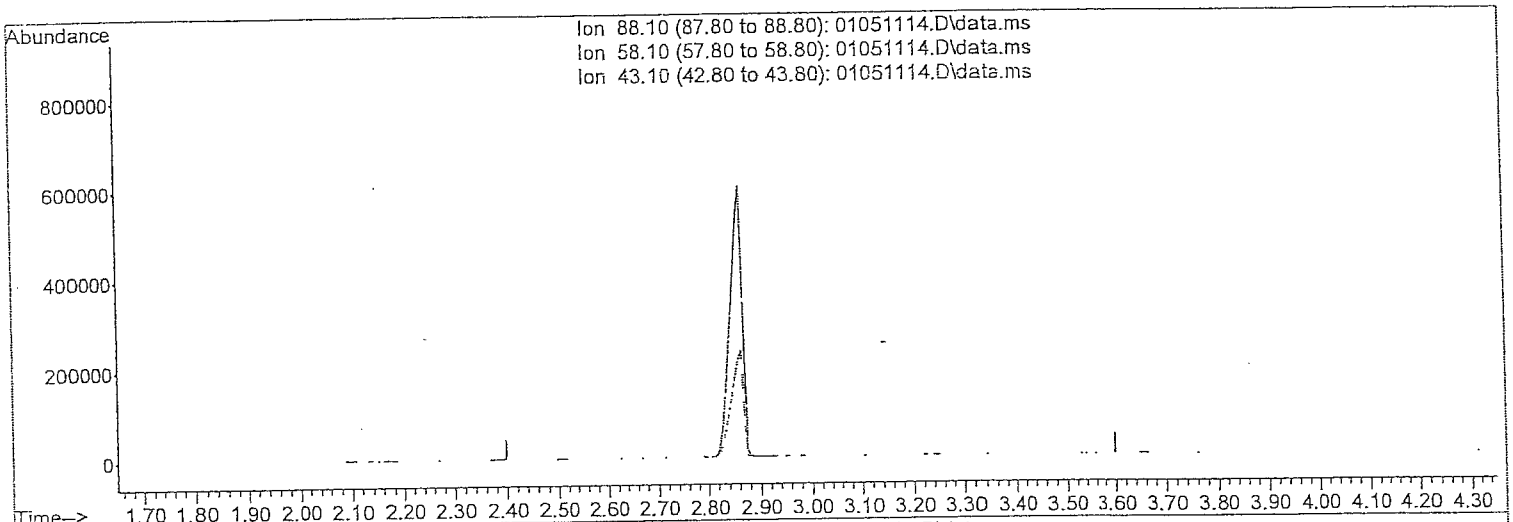
A

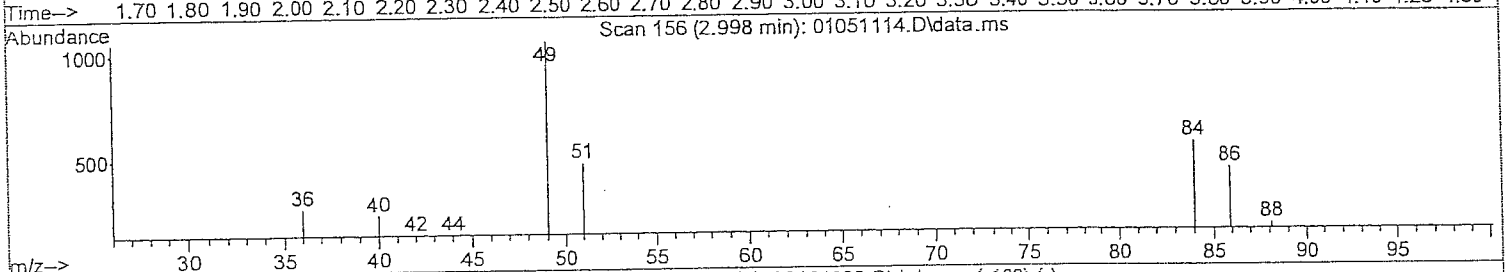
1-5-11

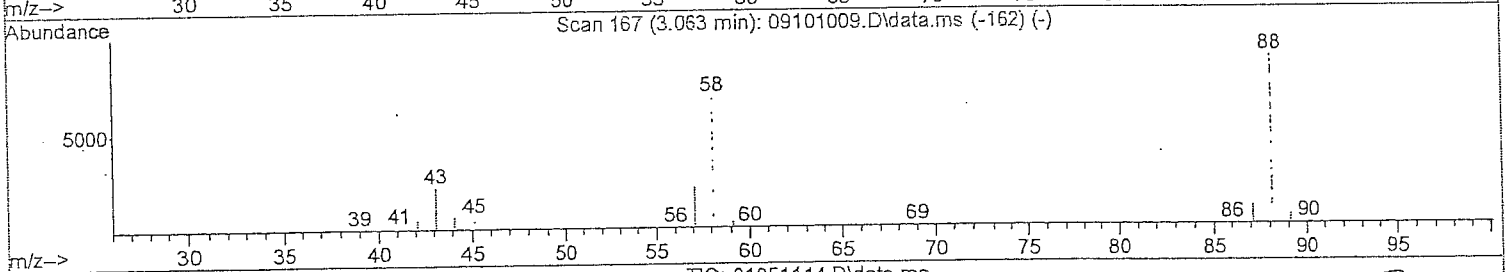
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

B

(2) 1,4-Dioxane (C)

2.998min (-2.998) 0.00ug/mL

response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	97.70	0.00#
43.10	38.10	0.00#
0.00	0.00	0.00

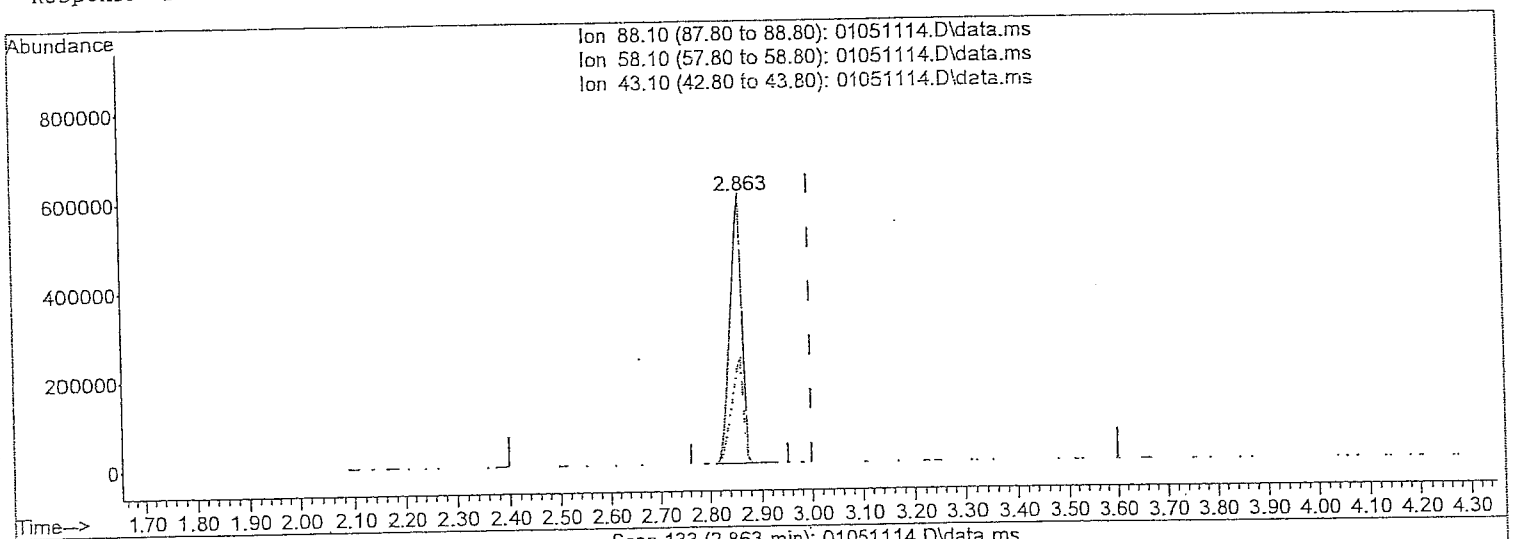
TD

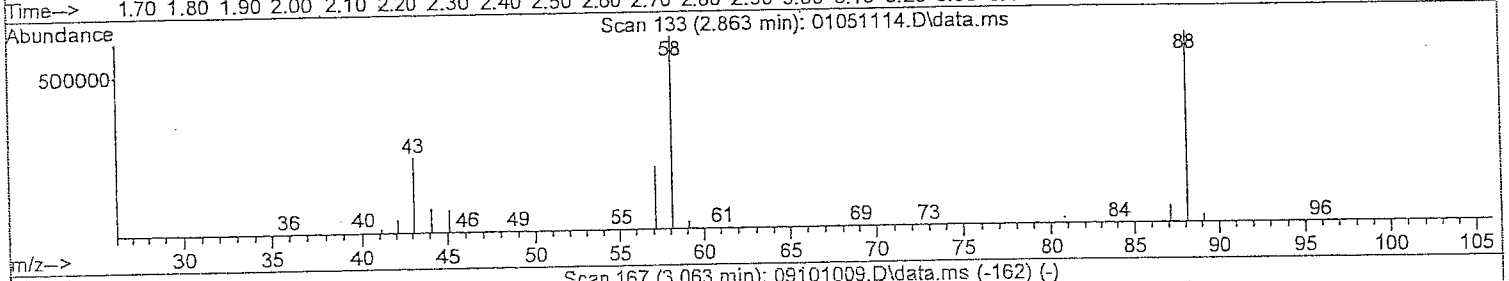
a 1-5-11

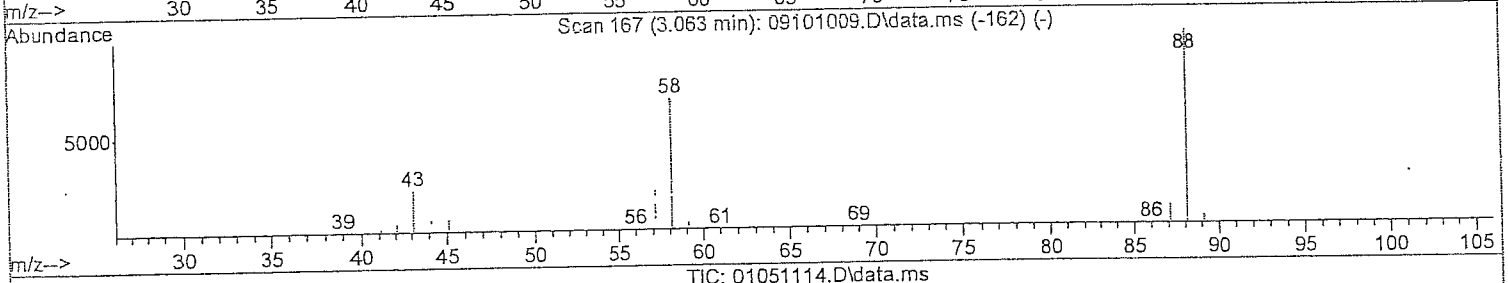
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

(2) 1,4-Dioxane (C)

2.863min (-0.135) 93.33ug/mL m

response 957052

Ion	Exp%	Act%
88.10	100	100
58.10	97.70	100.08
43.10	38.10	38.93
0.00	0.00	0.00

04.5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.946	96	322333	20.00 ug/mL	-0.03
3) 1,4-Dichlorobenzene-d4	6.086	152	233788	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	43	0.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.998	88	165372	10.08 ug/mL	98
4) 1,4-Dichlorobenzene	6.081	146	386	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

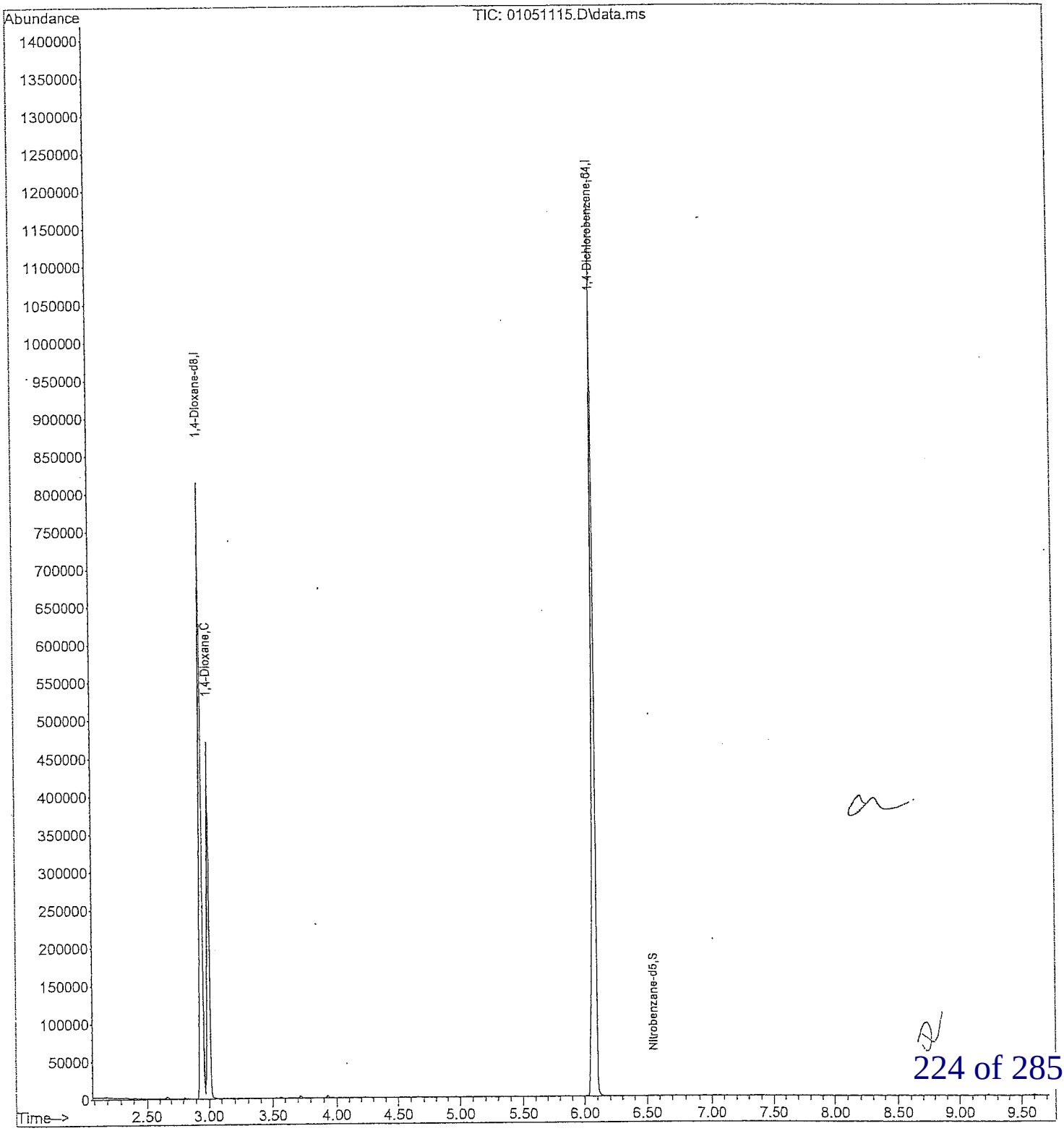
100.8 v/2

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: EPA 8270C

DATE: 03/18/11

WORK ORDER: PUC1004-01

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-SVD-014, R.1
Effective Date: 01/18/2011
Page No.: 1 of 1

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C. Laurie	Batch ID# 11C0614	Date Analyzed: 3/18/11

	Description	Yes	No	NA[1]
1.	Tune 8:54 AM 3/18/11			
-	DFTPP (~~50~~ 25 ng) meets method criteria?	✓		
-	Tailing -- Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?	✓		
2.	Calibration Curve (minimum of 5 levels)	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	CCC 1,4-Dichlorobenzene ≤30%	✓		
-	All compounds RSD ≤20% or linear/quadratic $r^2 \geq 0.99$	✓		
-	QCS recovered ± 30%	✓		
-	Date of Initial Calibration: 010511D Instrument: 6CMS14			
3.	Retention Times Updated?		✓	
4.	CCVs all analytes ~~recovered~~ within ± 20% D (includes CCC 1, 4-Dichlorobenzene)?	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	Internal Standard RT ± 0.5 min. from 10 ~~ppb~~ ug/mL std. in ICAL?	✓		
-	Internal Standard Areas -50% to ~~200~~ +100% of 10 ~~ppb~~ ug/mL std. in ICAL?	✓		
-	Analyte RRTs ± 0.06 from ~~50ppb~~ 10 ug/mL std. in ICAL?	✓		
5.	Method Blank extracted with batch?			
-	All target analytes recovered <RL?			
6.	LCS/LCSD extracted with batch?			
-	Recoveries within Laboratory Limits?			
-	RPDs ≤ Laboratory Limits?			
7.	MS/MSD extracted with batch?			
-	Recoveries within Historical Limits?			
-	RPDs Laboratory Limits?			
8.	Samples extracted within 7 days from collection?			
-	Samples analyzed within 40 days from extraction?			
-	Internal Standard RT ± 0.5 min. from CCV?			
-	Internal Standard Areas -50% to ~~200~~ +100% of 10 ~~ppb~~ ug/mL std. in ICAL?			
-	Maximum of 20 samples in batch?			
-	Surrogate recoveries within Historical Limits?			

Comments: IS Element ID(s): PT02037 (1,4-DCB-d4)

Samples loaded by CL; PE by JDR and CL

Review Signatures:	Analyst: Jessica Brinkers	Date: 03/22/11
	Reviewer: Amy L Cerwinski	Date: 3/22/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥031811.S
Comment:
Operator: CL/AC
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	03181101	DB5MS14	DCM
2)	Sample	2	03181102	DB5MS14	DCM
3)	Sample	3	03181103	DB5MS14	DCM
4)	Sample	4	03181104	DB5MS14	25ng tune std pu01447
5)	Sample	5	03181105	DIOXANE	DCM
6)	Sample	6	03181106	DIOXANE	10ug/mL 14-diox-01520
7)	Sample	7	03181107	DIOXANE	DCM
8)	Sample	8	03181108	DIOXANE	11C0614-BLK1
9)	Sample	9	03181109	DIOXANE	11C0614-BS1
10)	Sample	10	03181110	DIOXANE	11C0614-BSD1
11)	Sample	11	03181111	DIOXANE	PUC0982-02
12)	Sample	12	03181112	DIOXANE	11C0614-MS1
13)	Sample	13	03181113	DIOXANE	11C0614-MSD1
14)	Sample	14	03181114	DIOXANE	PUC0911-02
15)	Sample	15	03181115	DIOXANE	11C0614-MS2
16)	Sample	16	03181116	DIOXANE	11C0614-MSD2
17)	Sample	17	03181117	DIOXANE	PUC0911-01
18)	Sample	18	03181118	DIOXANE	PUC0911-03
19)	Sample	19	03181119	DIOXANE	PUC0911-04
20)	Sample	20	03181120	DIOXANE	PUC0911-05
21)	Sample	21	03181121	DIOXANE	PUC0982-01
22)	Sample	22	03181122	DIOXANE	PUC1004-01
23)	Sample	1	03181123	DB5MS14	25ng tune std pu01447
24)	Sample	2	03181124	DIOXANE	DCM
25)	Sample	3	03181125	DIOXANE	10ug/mL 14-diox-01520
26)	Sample	4	03181126	DIOXANE	11C0675-BLK1
27)	Sample	5	03181127	DIOXANE	11C0675-BS1
28)	Sample	6	03181128	DIOXANE	11C0675-BSD1
29)	Sample	7	03181129	DIOXANE	PUC0982-03
30)	Sample	8	03181130	DIOXANE	PUC0982-04
31)	Sample	9	03181131	DIOXANE	PUC~~1102-01~~ ~~1100~~ 1002-01
32)	Sample	10	03181132	DIOXANE	PUC0731-02RE1
33)	Sample	11	03181133	DIOXANE	PUC1113-01
34)	Sample	12	03181134	DIOXANE	PUC1114-01
35)	Sample	13	03181135	DIOXANE	PUC1114-02
36)	Sample	14	03181136	DIOXANE	PUC1114-03
37)	Sample	15	03181137	DIOXANE	PUC1114-04
38)	Sample	16	03181138	DIOXANE	PUC1197-01
39)	Sample	17	03181139	DIOXANE	PUC1197-02
40)	Sample	18	03181140	DIOXANE	PUC1197-03
41)	Sample	19	03181141	DIOXANE	PUC1197-04
42)	Sample	20	03181142	DIOXANE	PUC1197-05

a 3/20/11

corrected on logbook 3/22/11

a 3-20-11

Sequence Reviewed By: a Date: 3-20-11

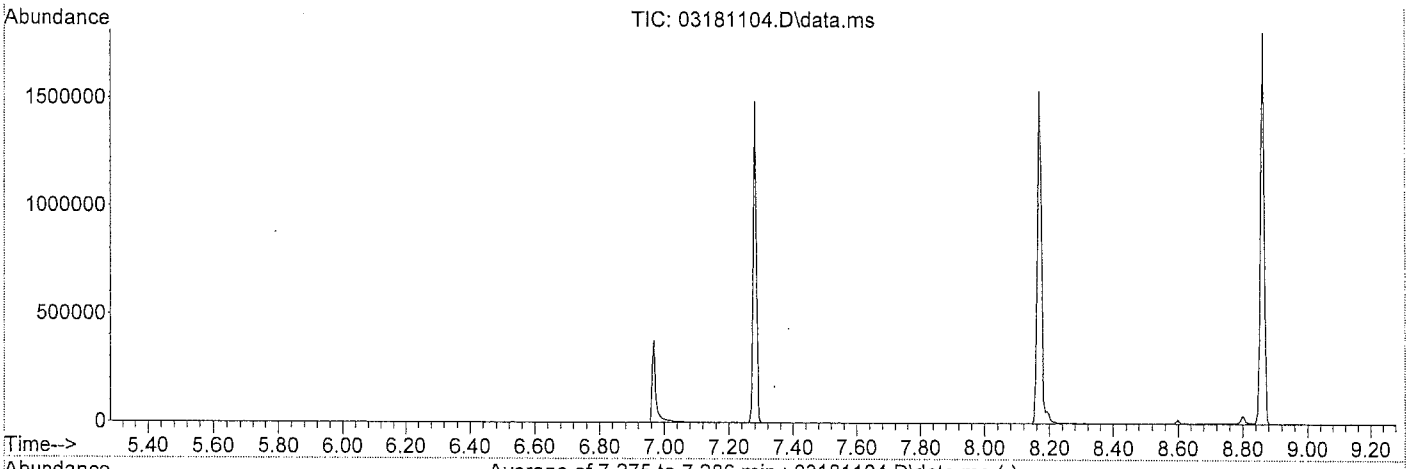
Date Analyzed: 3/20/11 Analyst: a Date Run: 3-18-11

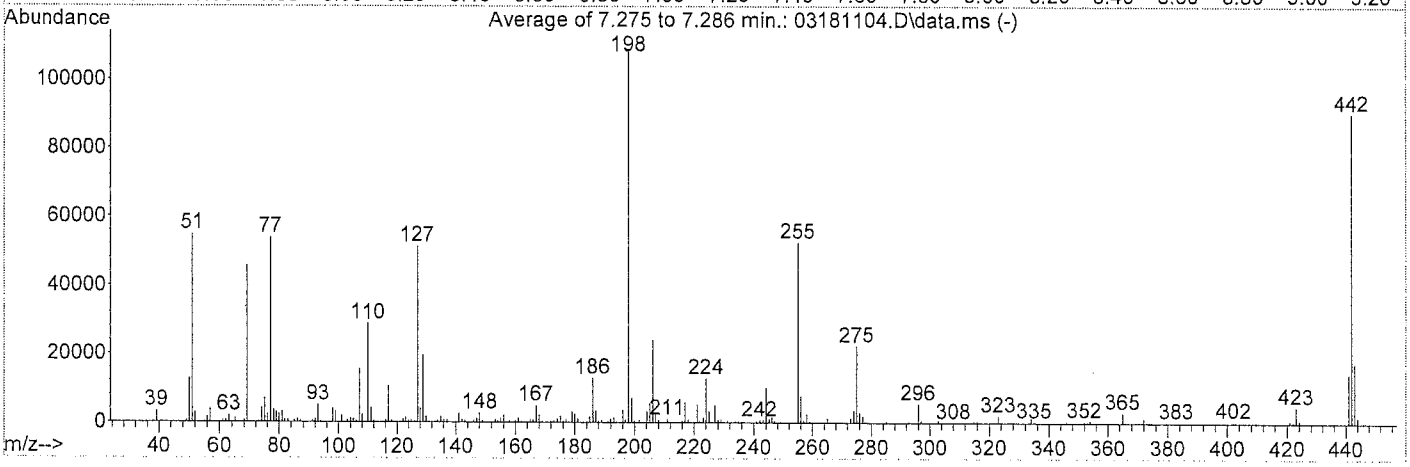
DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181104.D
Acq On : 18 Mar 2011 8:54 am
Operator : CL/AC
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP, TAILING EVA.:ACID<5.0, BN<3.0, DEG. <=20%
Last Update : Thu Feb 17 11:44:41 2011





AutoFind: Scans 951, 952, 953; Background Corrected with Scan 946

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.4	54730	PASS
68	69	0.00	2	1.4	631	PASS
69	198	0.00	100	42.1	45729	PASS
70	69	0.00	2	0.4	167	PASS
127	198	40	60	47.3	51306	PASS
197	198	0.00	1	0.7	791	PASS
198	198	100	100	100.0	108562	PASS
199	198	5	9	6.6	7133	PASS
275	198	10	30	20.4	22198	PASS
365	198	1	100	2.7	2898	PASS
441	443	0.01	100	81.1	14173	PASS
442	198	40	100	83.1	90170	PASS
443	442	17	23	19.4	17479	PASS

03-18-11

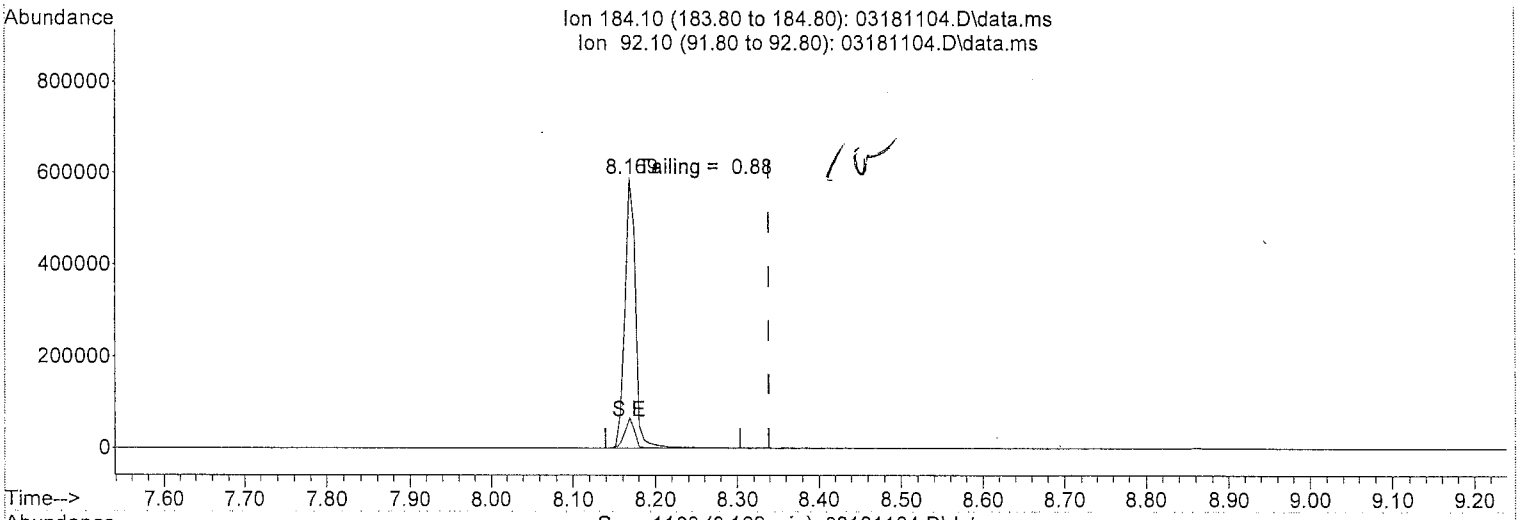
TUNE8270.M Fri Mar 18 10:14:08 2011

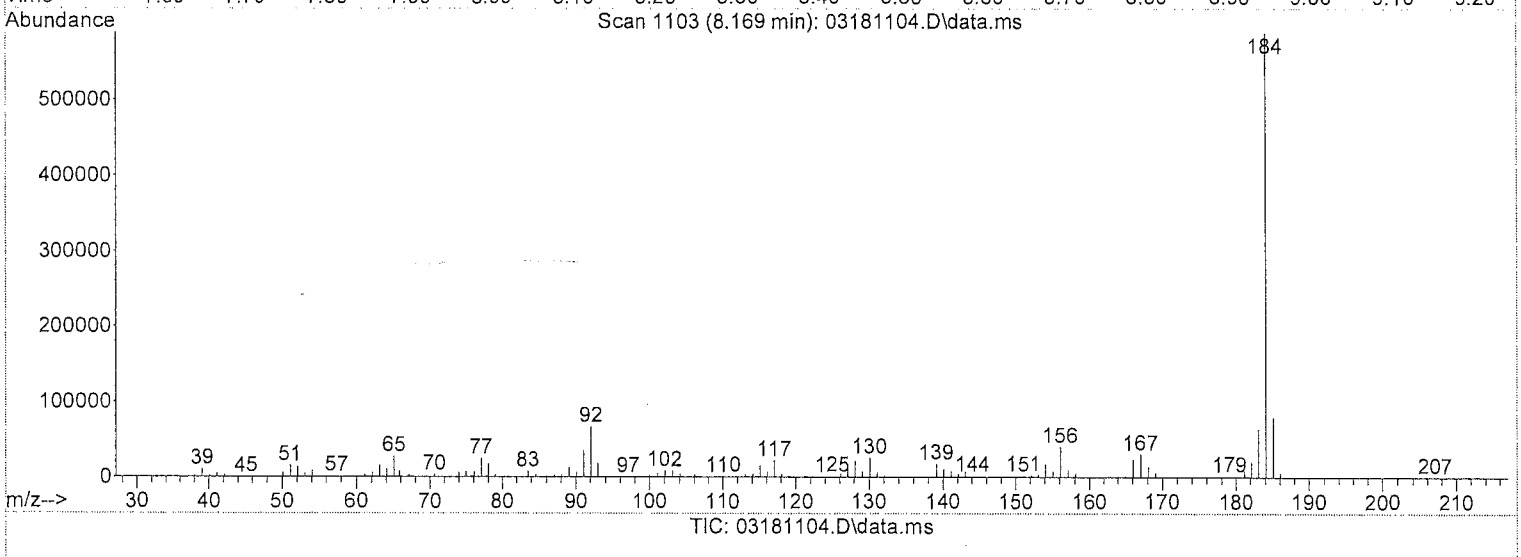
3/22/11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181104.D
Acq On : 18 Mar 2011 8:54 am
Operator : CL/AC
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 18 10:14:14 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
QLast Update : Thu Feb 17 11:44:41 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D





(2) Benzidine

8.169min (-0.170) 7.02

response 551507

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181106.D
Acq On : 18 Mar 2011 9:46 am
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 10:14:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.763	96	274727	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	5.993	152	236564	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	390793	9.22 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.816	88	146409	10.47 ug/mL	96
4) 1,4-Dichlorobenzene	6.010	146	406505	10.45 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.328	70	275698	9.75 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

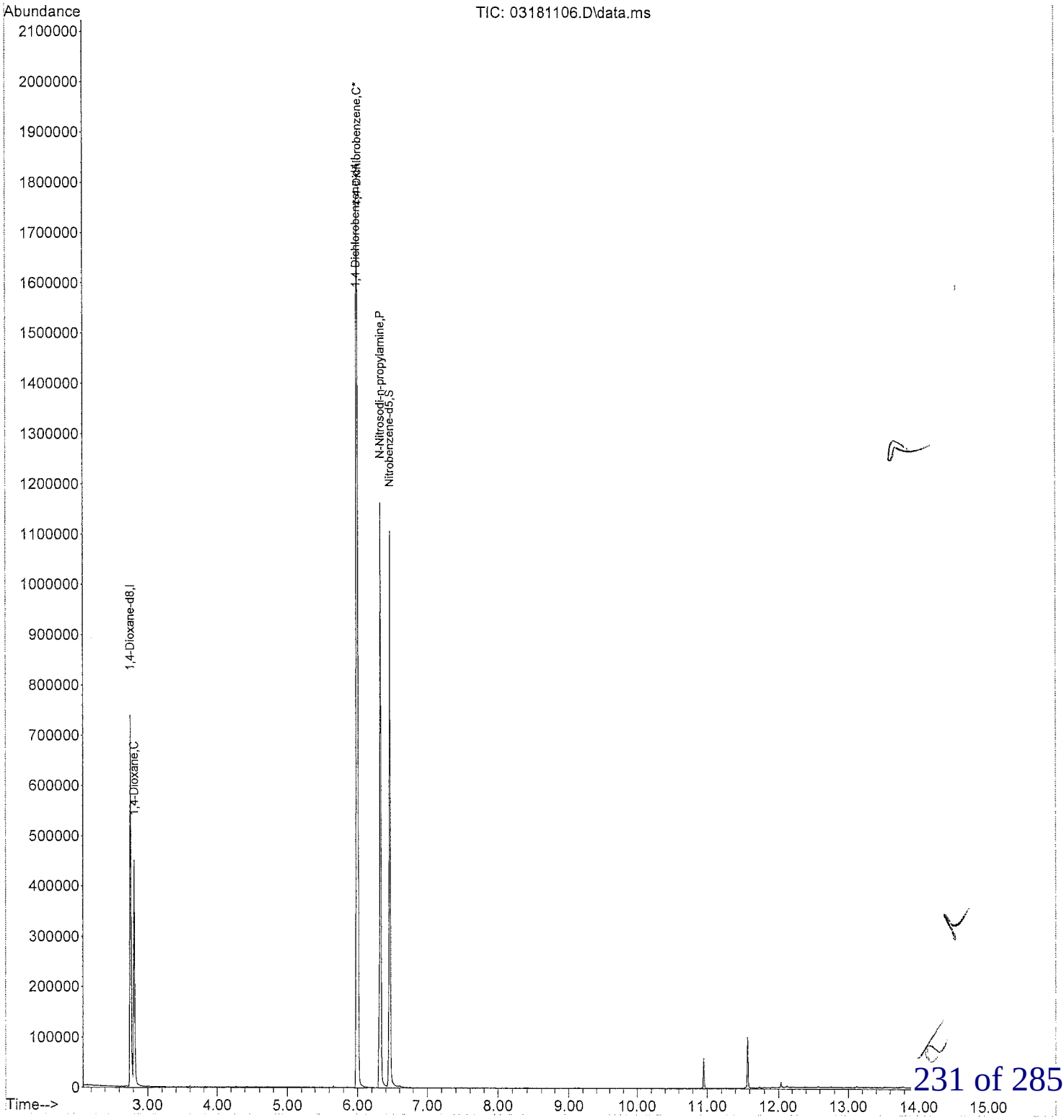
4-5-18-11

3/22/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181106.D
Acq On : 18 Mar 2011 9:46 am
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 10:14:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



010511D.M Fri Mar 18 10:15:19 2011

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.746	1.000	A	1	A	B
2	C	1,4-Dioxane	88	2.793	1.017	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	6.010	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	6.028	1.003	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.345	1.056	A	1	A	B
6	S	Nitrobenzene-d5	82	6.481	1.078	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

10511D.M Fri Mar 18 10:15:29 2011

a 3-18-11

3/22/11

Evaluate Continuing Calibration Report

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181106.D
Acq On : 18 Mar 2011 9:46 am
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 10:14:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 400%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dioxane-d8	1.000	1.000	0.0	84	0.02
2 C	1,4-Dioxane	1.018	1.066	-4.7	85	0.02
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	-0.02
4 C*	1,4-Dichlorobenzene	1.644	1.718	-4.5	100	-0.02
5 P	N-Nitrosodi-n-propylamine	1.195	1.165	2.5	90	-0.02
6 S	Nitrobenzene-d5	1.792	1.652	7.8	86	-0.02

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

03-18-11

3/22/11

3/22/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03181106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 9:46
Misc Info CCV
Instrument Name GCMS14

10ug/mL PU00063-
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\

	NAME	RT	CCV RRT Value (Target/IS)	mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.763					
	1,4-Dioxane	2.816	1.0192	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	5.993					
	1,4-Dichlorobenzene	6.010	1.0029	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.328	1.0559	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.463	1.0785	1.0763	1.0163	1.1363	<-PASS

a 3-18-11

3/22/11

3/18/2011 10:16 AM

Sample Name 10ug/mL 14-diox-01520
Data File Name 03181106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 9:46
Misc Info CCV
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.M

	CCV RESPONSE	**ICAL** RESPONSE	0.5X	2X	**PASS/FAIL**
Internal Standard					
1,4-Dichlorobenzene-d4	236564	243008	121504	486016	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	6.09	5.59	6.59	<-PASS

03-18-11

3/22/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03181106.D
Data File Path D:\msdchem\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 9:46
Misc Info CCV
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	236564	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

Daily update
03-18-11

3/22/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031811A_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 15:22:11 2011
Response Via : Continuing Calibration

Total Cpnds : 2

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	1,4-Dichlorobenzene-d4	152	5.993	1.000	A	0	A	B
2	1,4-Dioxane-d8	96	2.763	0.461	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031811A_D8.M Mon Mar 21 15:22:23 2011

03/21/11

3/22/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031811A_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 15:22:11 2011
Response Via : Continuing Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	20	10	D:\msdchem\1\GCMS14\DATA\031811\03181106.D
2	CC	20	10	D:\msdchem\1\GCMS14\DATA\031811\03181106.D

03-21-11

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 21 15:22 2011	Mar 21 15:21 2011	18 Mar 2011 9:46 am
2	CC	Mar 21 15:22 2011	Mar 21 15:21 2011	18 Mar 2011 9:46 am

031811A_D8.M Mon Mar 21 15:22:32 2011

3/22/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥
Method File : 031811A_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 15:22:11 2011
Response Via : Continuing Calibration

Calibration Files
1 =03181106.D

Compound	1	Avg	%RSD
1) I 1,4-Dichlorobenzen...	----------ISTD----------		
2) 1,4-Dioxane-d8	0.581	0.581	0.00

(#) = Out of Range

a 24.21.11

3/22/11

3/22/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181106.D
Acq On : 18 Mar 2011 9:46 am
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 15:22:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.993	152	236564	10.00 ug/mL	0.00
Target Compounds					**Qvalue**
2) 1,4-Dioxane-d8	2.763	96	274727	20.00 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

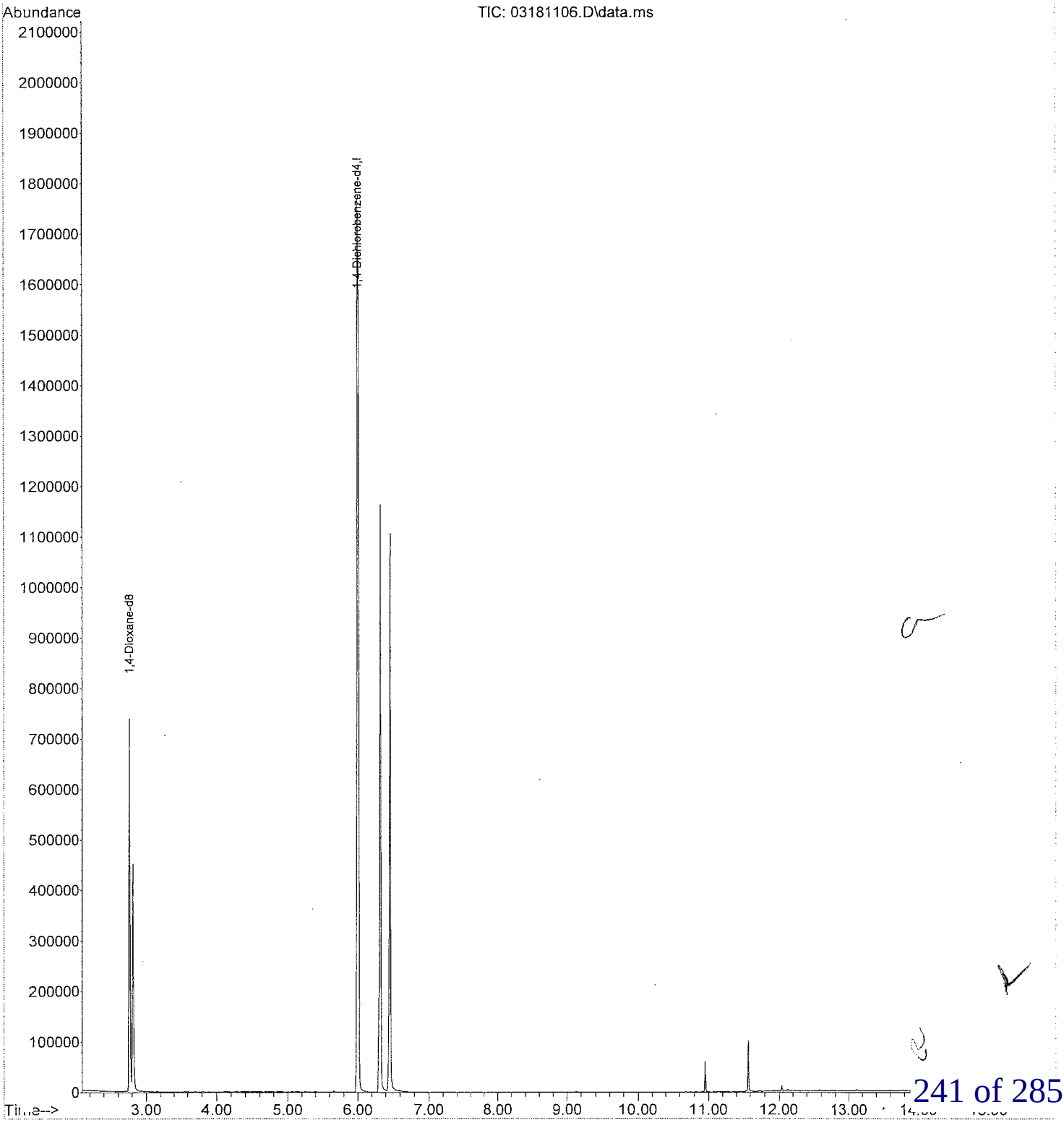
3/21/11

3/22/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181106.D
Acq On : 18 Mar 2011 9:46 am
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 15:22:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D



Quantitation Report (~~Not~~ Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181108.D
Acq On : 18 Mar 2011 11:43 am
Operator : CL/AC
Sample : 11C0614-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 16:52:21 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

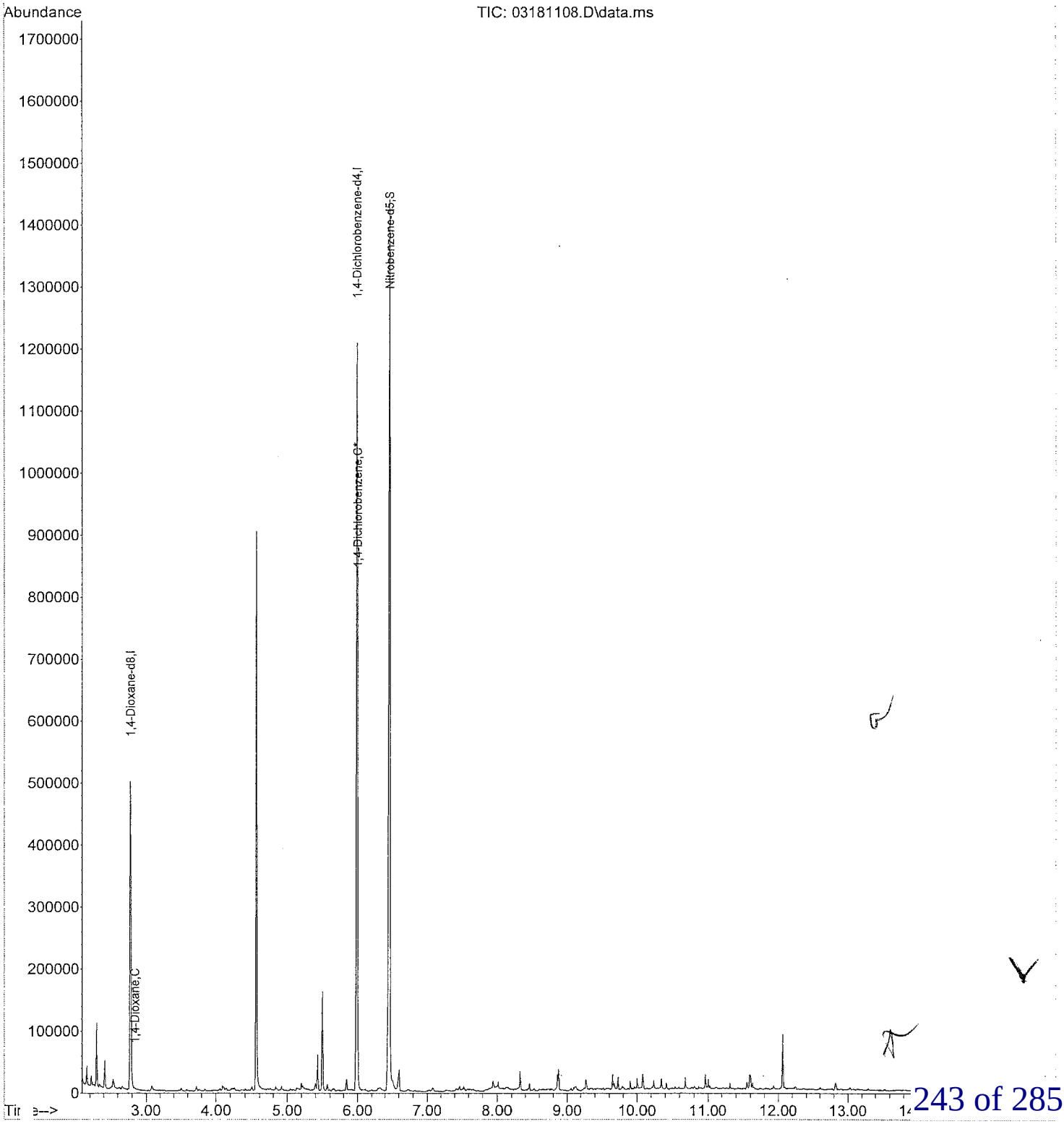
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.775	96	188090	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	5.992	152	222055	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	645506	16.22 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.845	88	117	0.01 ug/mL#	60
4) 1,4-Dichlorobenzene	6.004	146	276	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181108.D
Acq On : 18 Mar 2011 11:43 am
Operator : CL/AC
Sample : 11C0614-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 16:52:21 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0614-BLK1
Data File Name 03181108.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 11:43
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	222055	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/22/11

Quantitation Report (Not Reviewed)

03.21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181108.D
Acq On : 18 Mar 2011 11:43 am
Operator : CL/AC
Sample : 11C0614-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 21 15:23:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	222055	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.775	96	188090	14.59 ug/mL	98

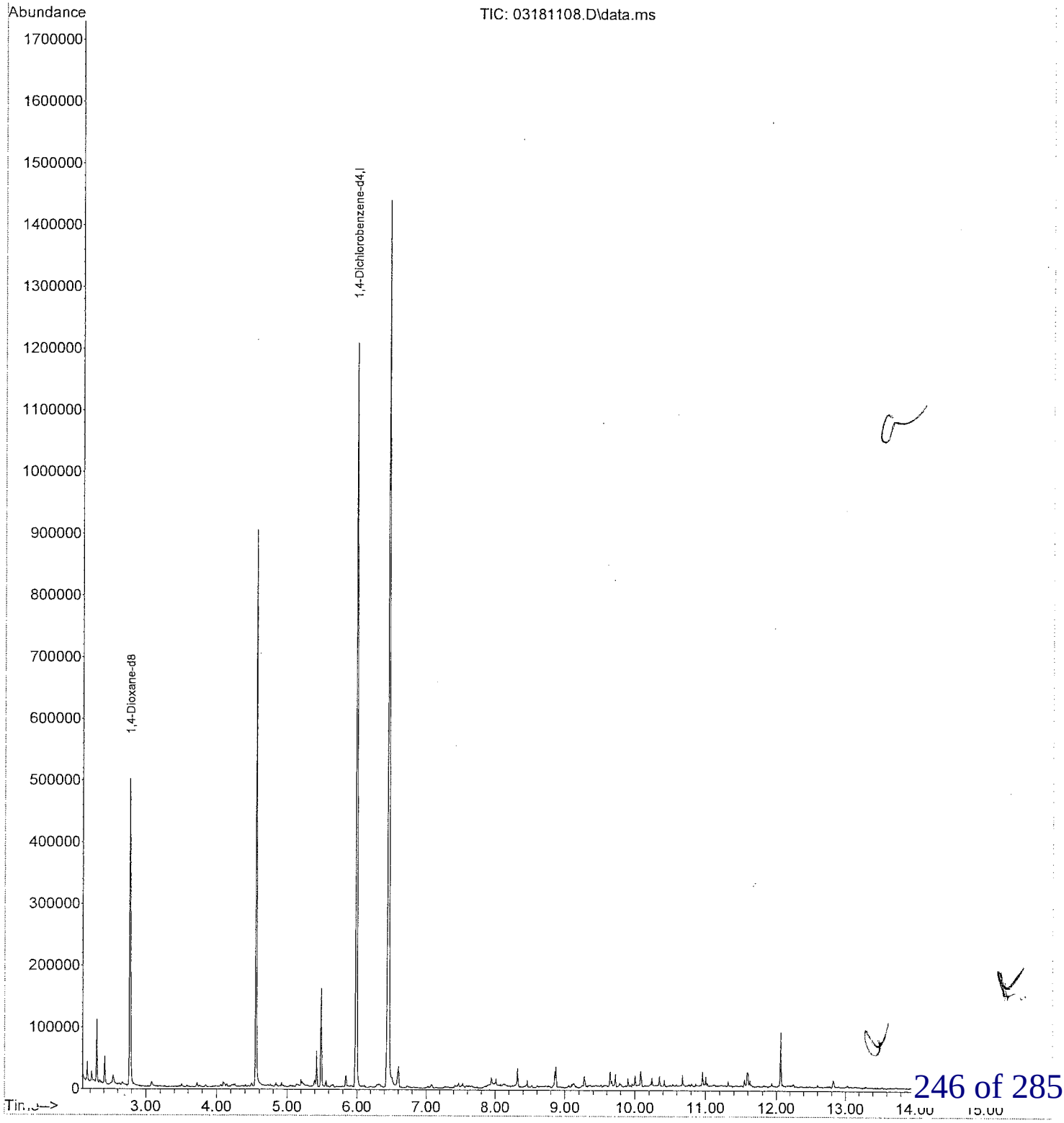
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181108.D
Acq On : 18 Mar 2011 11:43 am
Operator : CL/AC
Sample : 11C0614-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 21 15:23:17 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D



Quantitation Report (Not Reviewed)

04-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181109.D
Acq On : 18 Mar 2011 12:09 pm
Operator : CL/AC
Sample : 11C0614-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 18 16:52:27 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.822	96	195522	20.00 ug/mL	0.08
3) 1,4-Dichlorobenzene-d4	5.992	152	228922	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	679169	16.56 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.875	88	208290	20.93 ug/mL	97
4) 1,4-Dichlorobenzene	6.004	146	646	0.02 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

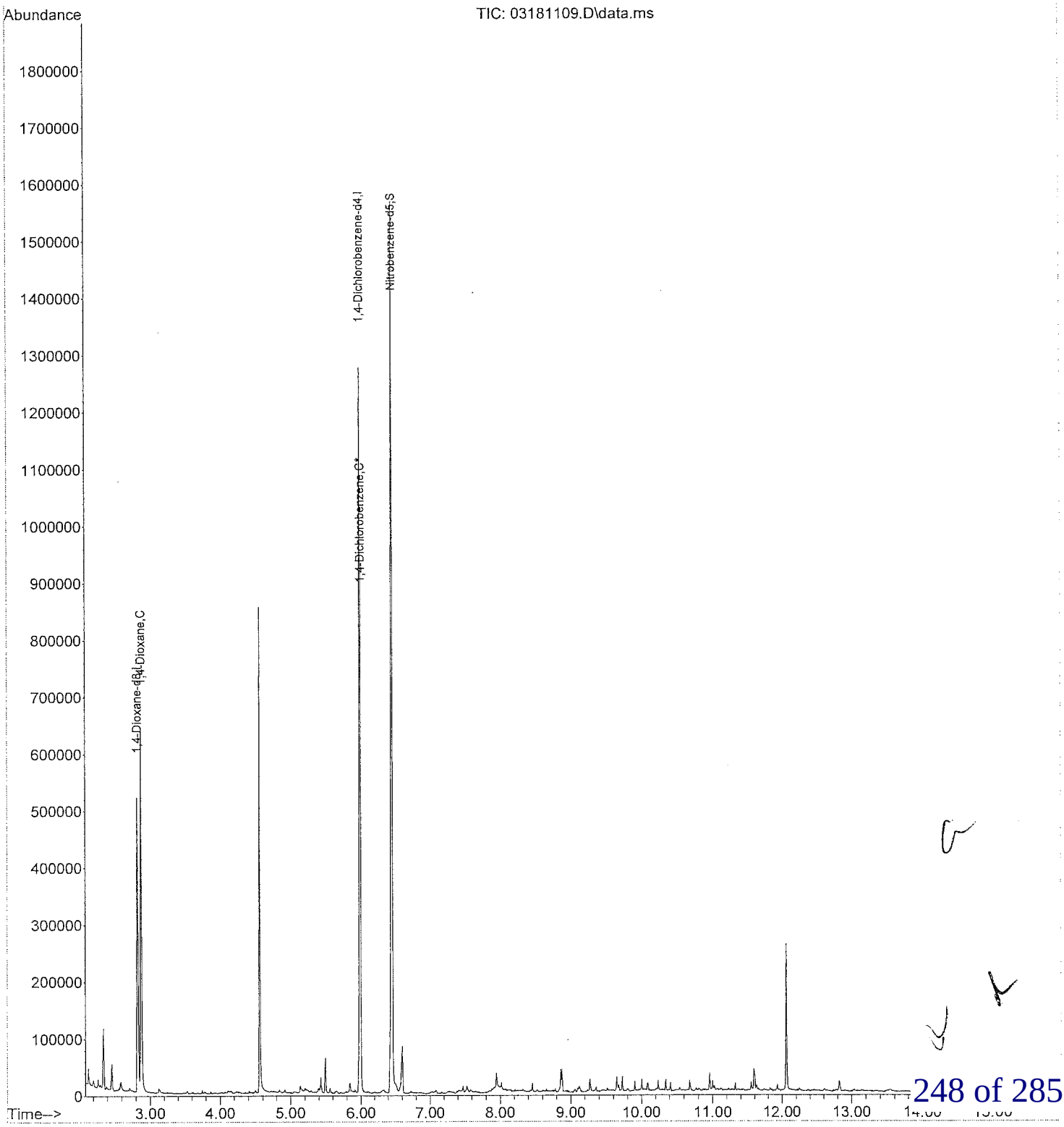
3/22/11

3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181109.D
Acq On : 18 Mar 2011 12:09 pm
Operator : CL/AC
Sample : 11C0614-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 18 16:52:27 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0614-BS1
Data File Name 03181109.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 12:09
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	228922	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/22/11

Quantitation Report (~~Not~~ Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181109.D
Acq On : 18 Mar 2011 12:09 pm
Operator : CL/AC
Sample : 11C0614-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 15:23:21 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	228922	10.00 ug/mL	0.00

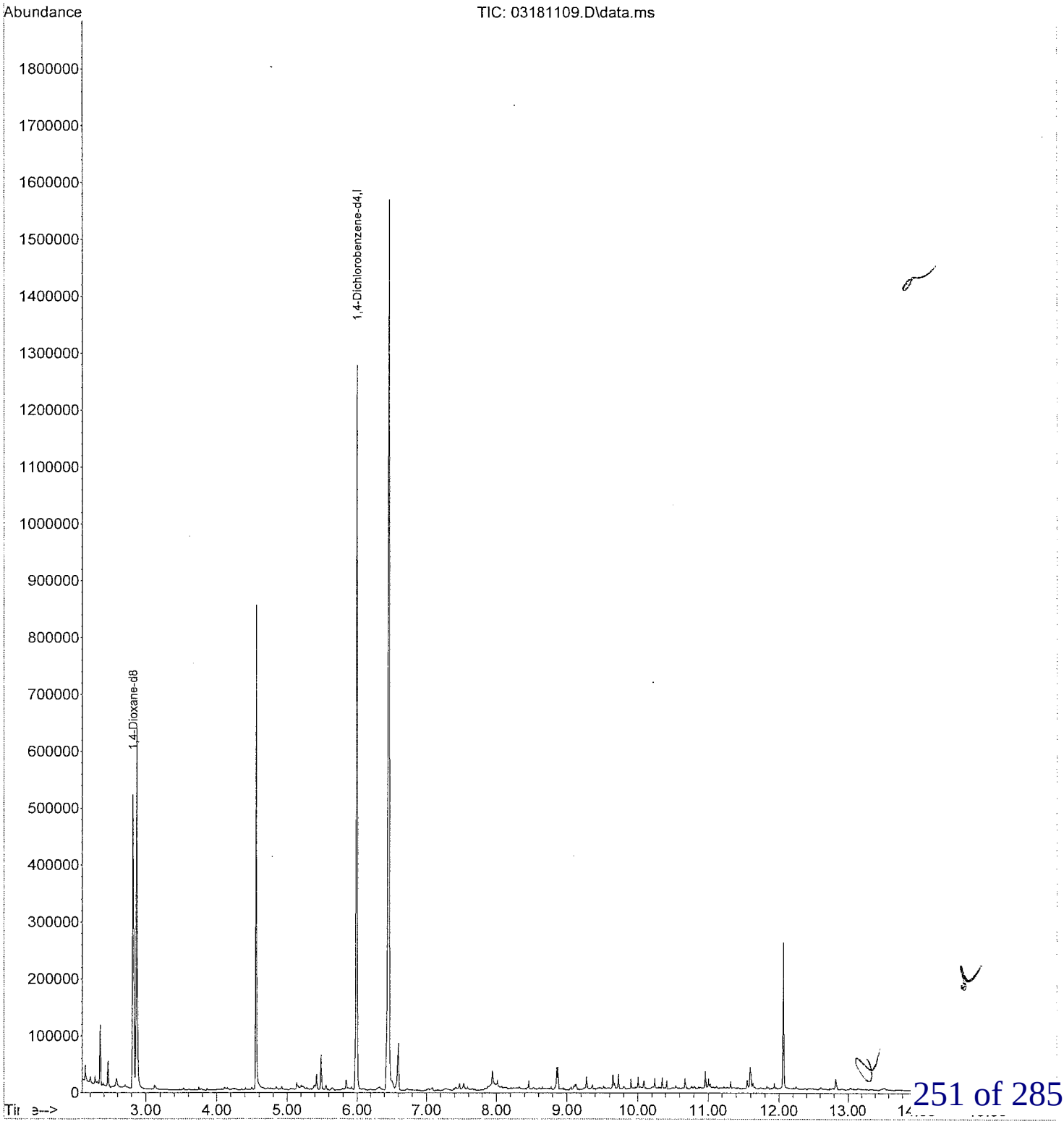
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.822	96	195522	14.71 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181109.D
Acq On : 18 Mar 2011 12:09 pm
Operator : CL/AC
Sample : 11C0614-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 21 15:23:21 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D



Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181110.D
Acq On : 18 Mar 2011 12:36 pm
Operator : CL/AC
Sample : 11C0614-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 18 16:52:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

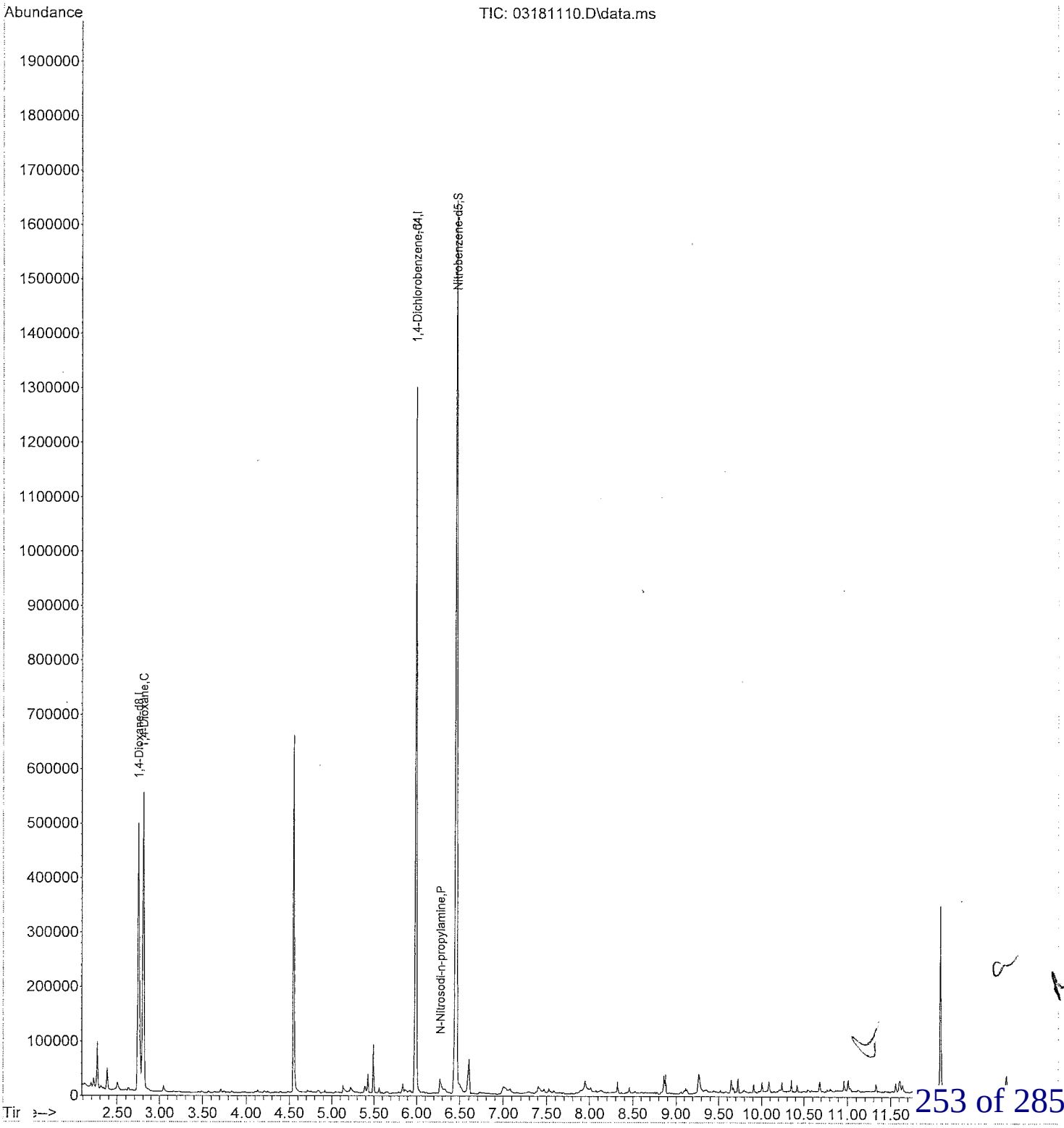
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.746	96	180745	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.992	152	204024	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	629517	17.22 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.804	88	192445	20.92 ug/mL	95
4) 1,4-Dichlorobenzene	5.998	146	583	0.02 ug/mL#	1
5) N-Nitrosodi-n-propylamine	6.275	70	2781	0.11 ug/mL#	51

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181110.D
Acq On : 18 Mar 2011 12:36 pm
Operator : CL/AC
Sample : 11C0614-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 18 16:52:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0614-BSD1
Data File Name 03181110.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 12:36
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	204024	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181110.D
Acq On : 18 Mar 2011 12:36 pm
Operator : CL/AC
Sample : 11C0614-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 15:23:25 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D

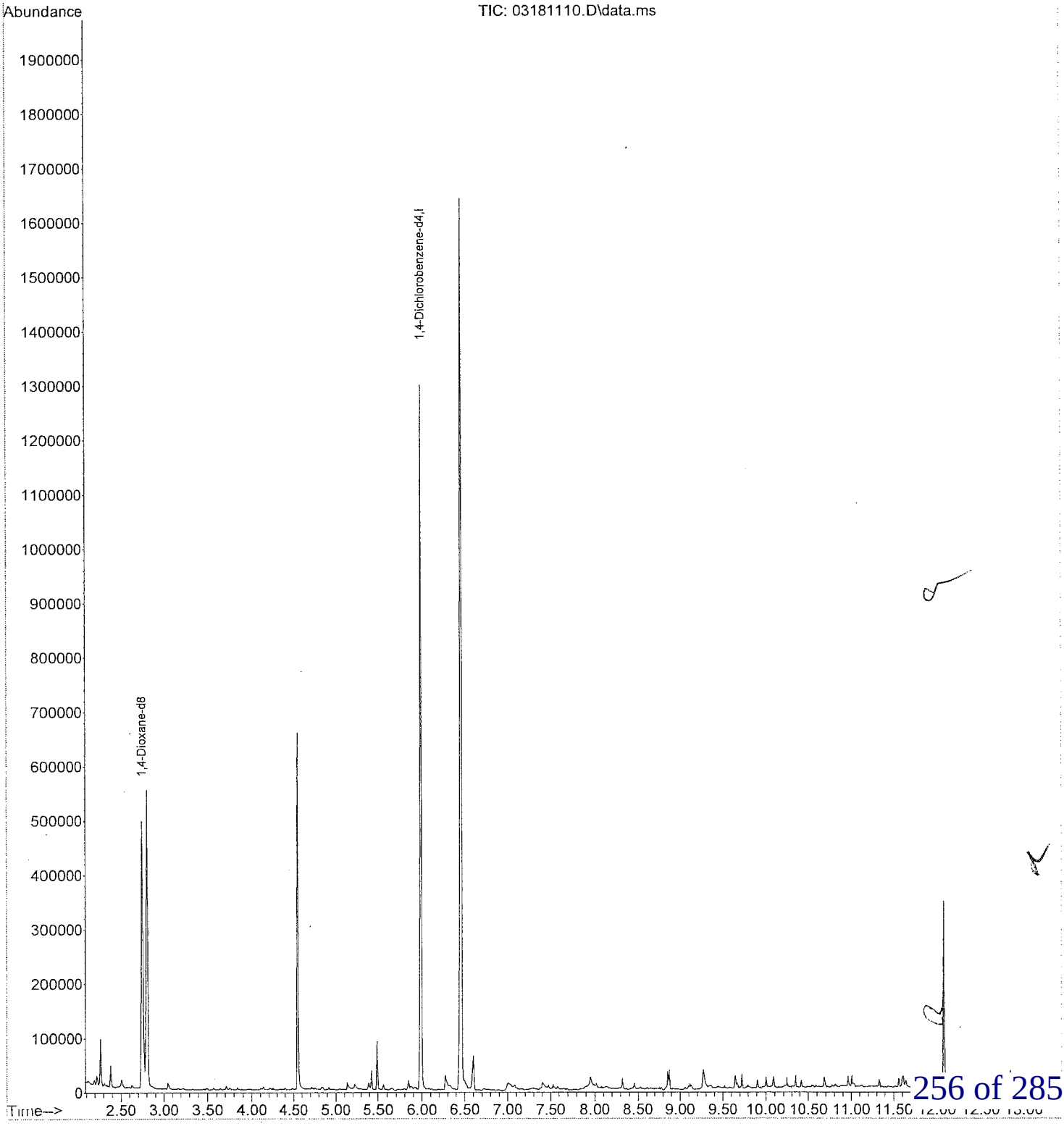
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	204024	10.00 ug/mL	0.00
Target Compounds					**Qvalue**
2) 1,4-Dioxane-d8	2.746	96	180745	15.26 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181110.D
Acq On : 18 Mar 2011 12:36 pm
Operator : CL/AC
Sample : 11C0614-BSD1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 21 15:23:25 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D



Quantitation Report (Not Reviewed)

03/21/11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181111.D
Acq On : 18 Mar 2011 12:59 pm
Operator : CL/AC
Sample : PUC0982-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 18 16:52:37 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

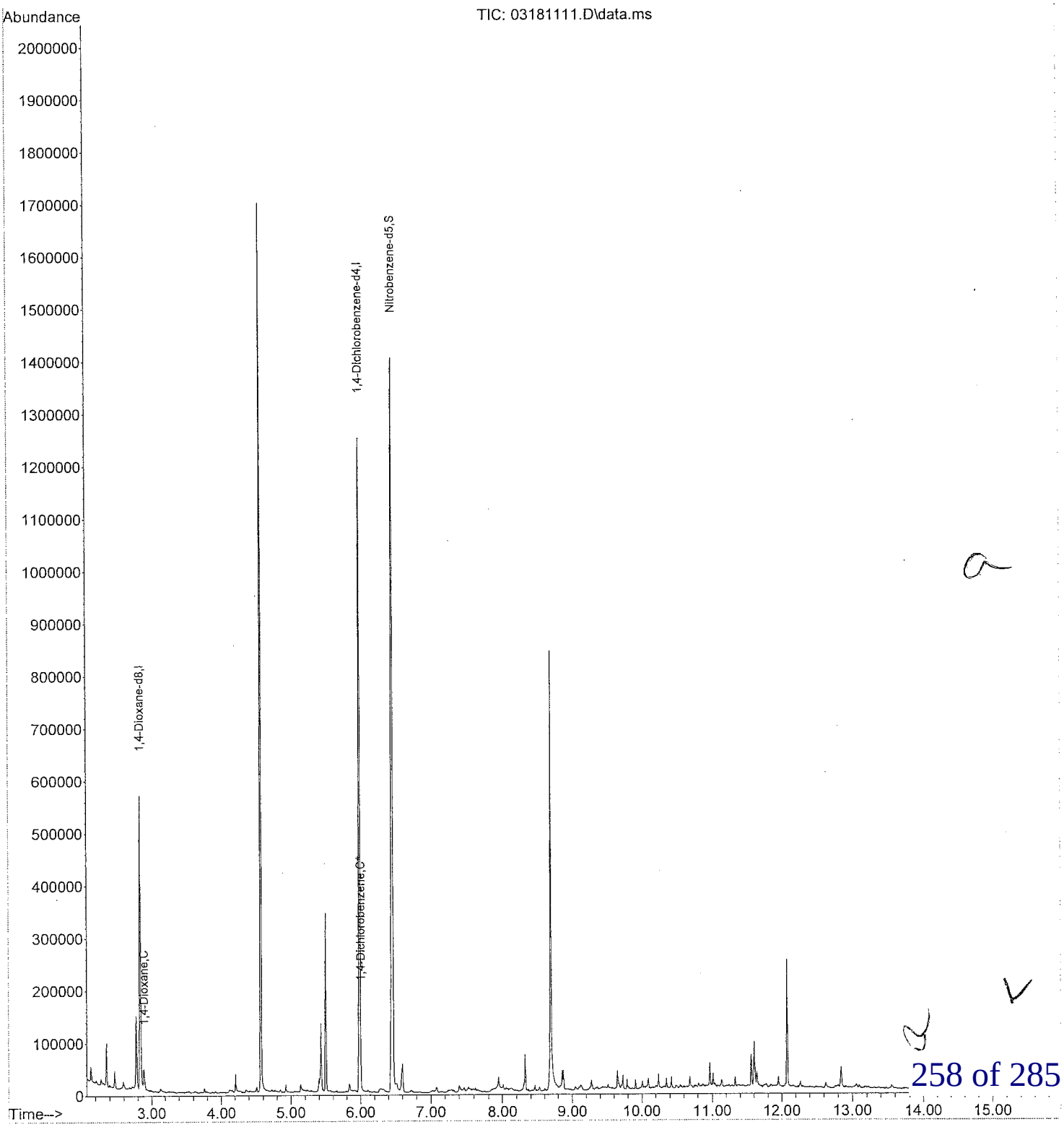
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.834	96	198964	20.00 ug/mL	0.09
3) 1,4-Dichlorobenzene-d4	5.992	152	223389	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	690175	17.24 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.887	88	15552	1.54 ug/mL	91
4) 1,4-Dichlorobenzene	6.010	146	178	0.00 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181111.D
Acq On : 18 Mar 2011 12:59 pm
Operator : CL/AC
Sample : PUC0982-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 18 16:52:37 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

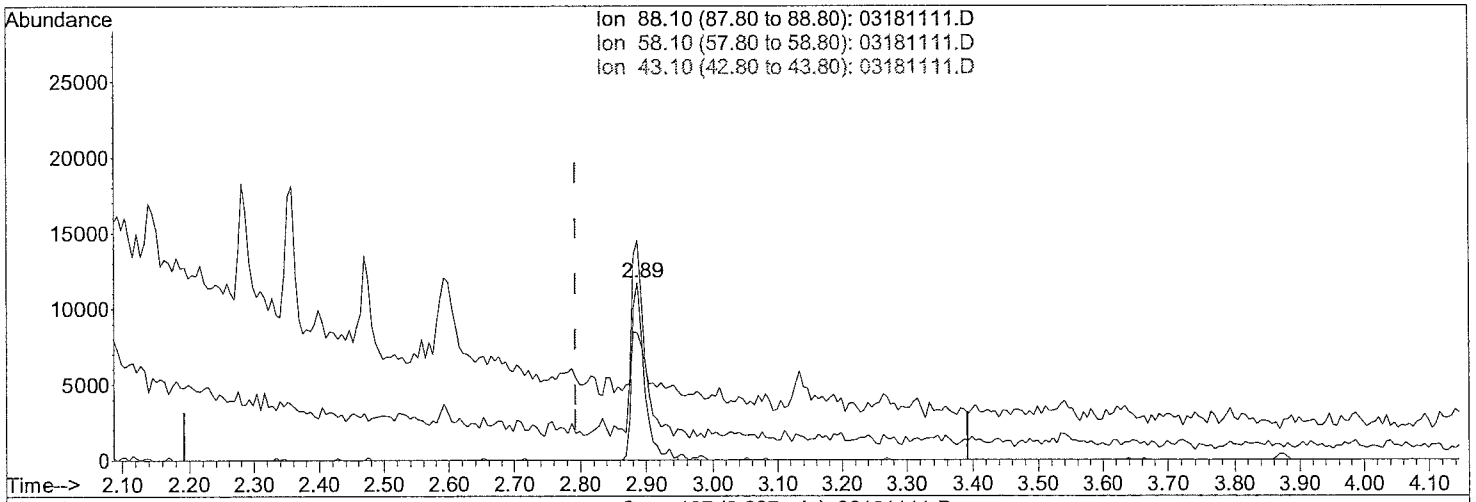


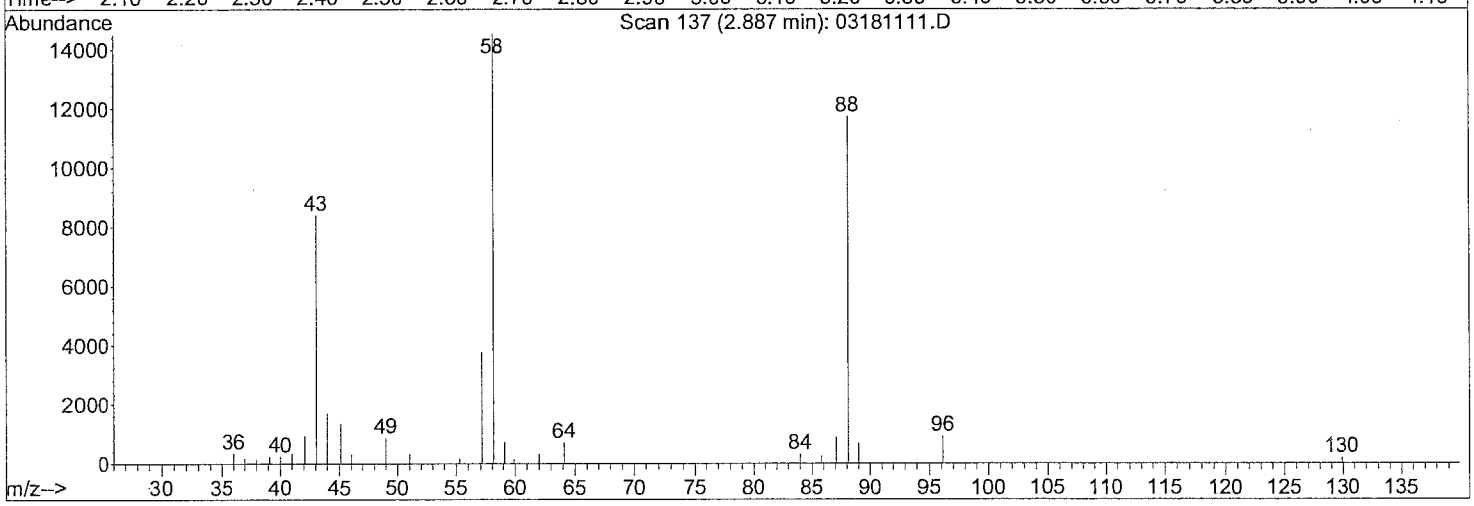
010511D.M Fri Mar 18 16:52:40 2011

Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181111.D
Acq On : 18 Mar 2011 12:59 pm
Operator : CL/AC
Sample : PUC0982-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 18 16:52:37 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration





TIC: 03181111.D

(2) 1,4-Dioxane (C)

2.887min (+0.094) 1.54ug/mL

response 15552

Ion	Exp%	Act%
88.10	100	100
58.10	112.80	118.76
43.10	35.80	46.91
0.00	0.00	0.00

Sample Name PUC0982-02
Data File Name 03181111.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 12:59
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	223389	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/22/11

Quantitation Report (Not Reviewed)

03.21.11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181111.D
Acq On : 18 Mar 2011 12:59 pm
Operator : CL/AC
Sample : PUC0982-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 21 15:23:29 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	223389	10.00 ug/mL	0.00

Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.834	96	199060	15.35 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

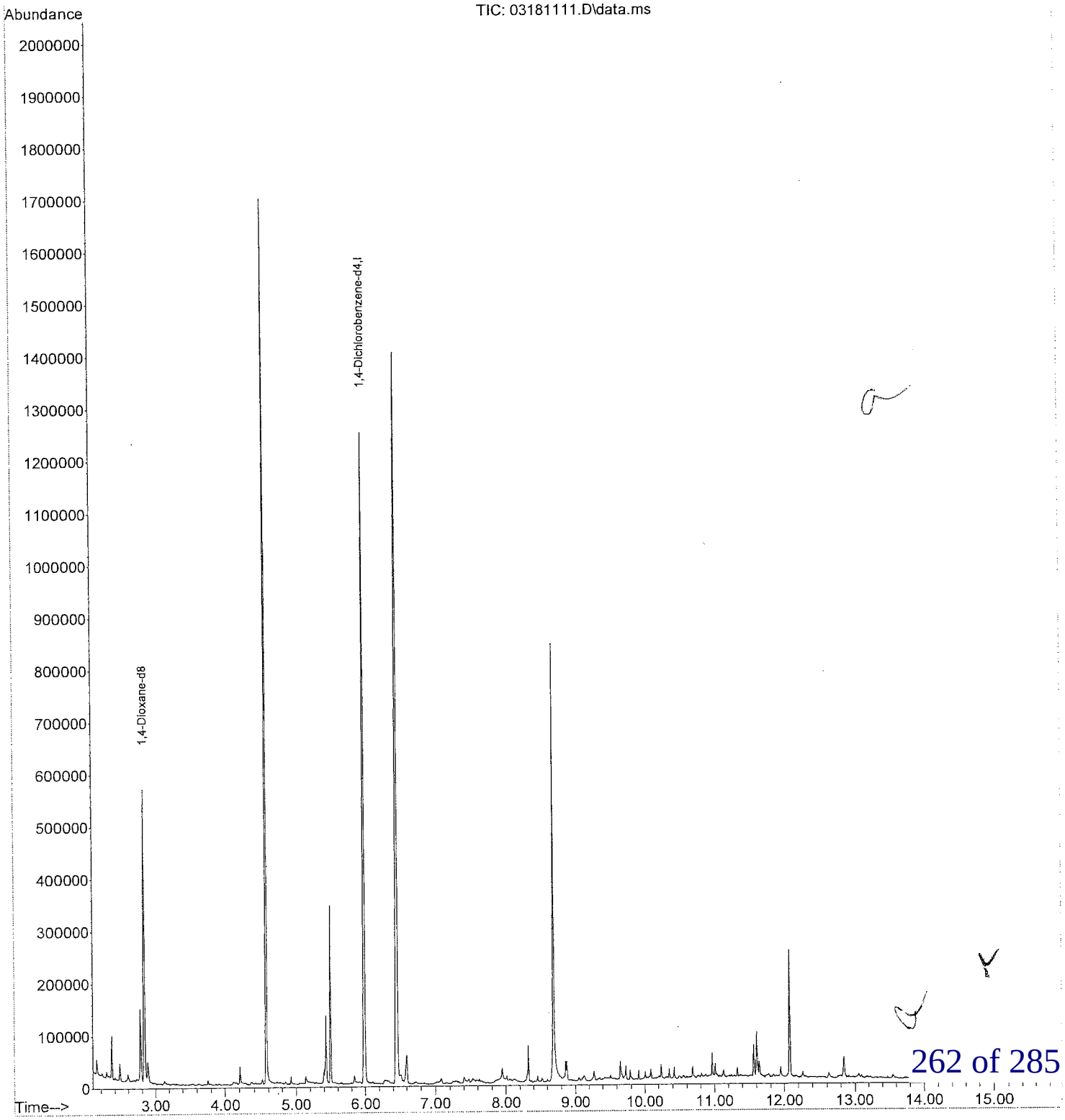
3/22/11

3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181111.D
Acq On : 18 Mar 2011 12:59 pm
Operator : CL/AC
Sample : PUC0982-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 21 15:23:29 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D



Quantitation Report (Not Reviewed)

5-4-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181112.D
Acq On : 18 Mar 2011 1:26 pm
Operator : CL/AC
Sample : 11C0614-MS1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 18 16:52:42 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.828	96	196778	20.00 ug/mL	0.08
3) 1,4-Dichlorobenzene-d4	5.992	152	222909	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	668424	16.73 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.881	88	226141	22.58 ug/mL	96
4) 1,4-Dichlorobenzene	5.986	146	730	0.02 ug/mL#	1

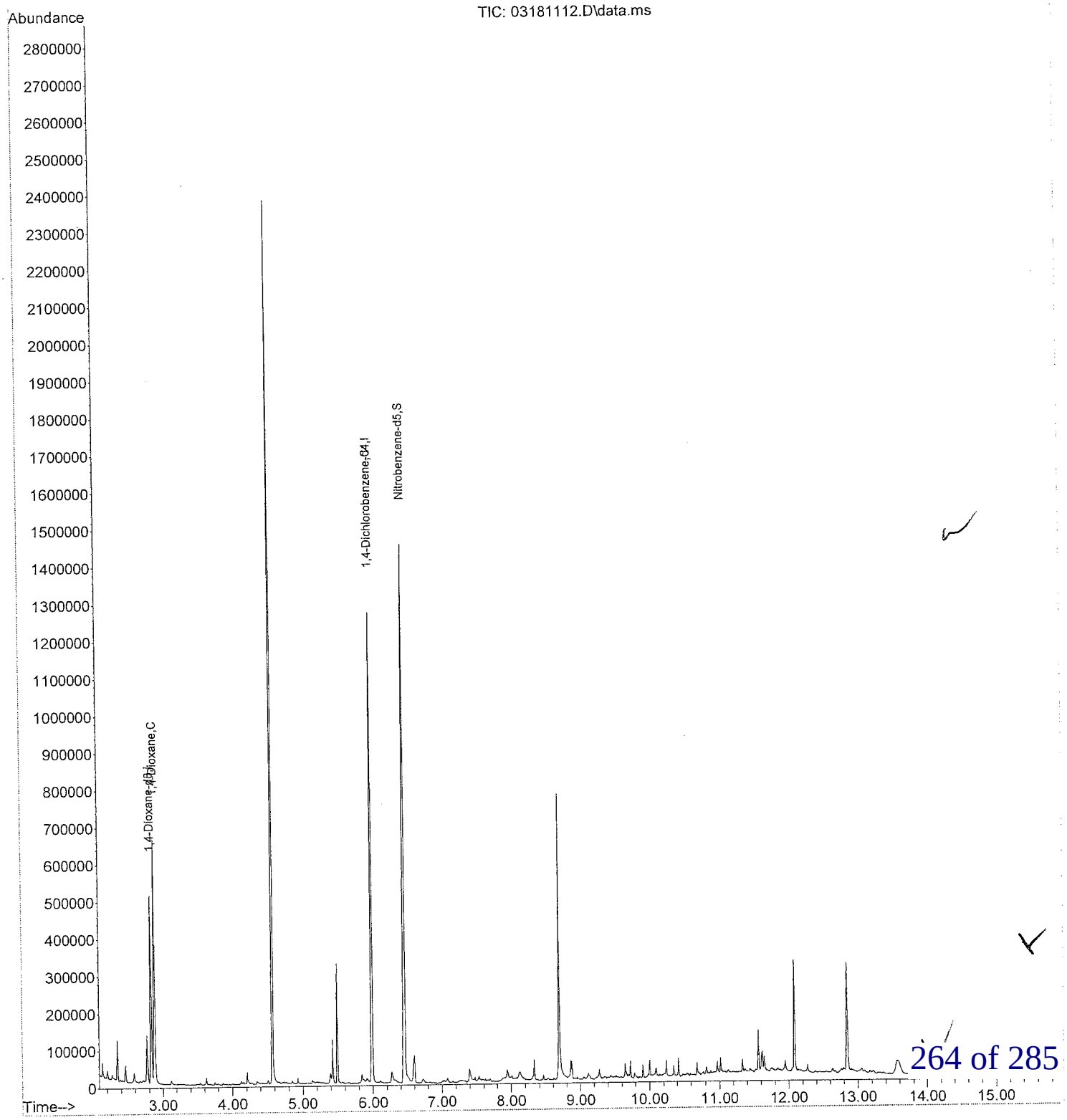
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181112.D
Acq On : 18 Mar 2011 1:26 pm
Operator : CL/AC
Sample : 11C0614-MS1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 18 16:52:42 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0614-MS1
Data File Name 03181112.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 13:26
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	222909	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/22/11

Quantitation Report (Not Reviewed)

03-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181112.D
Acq On : 18 Mar 2011 1:26 pm
Operator : CL/AC
Sample : 11C0614-MS1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 21 15:23:33 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	222909	10.00 ug/mL	0.00

Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.828	96	196778	15.20 ug/mL	98

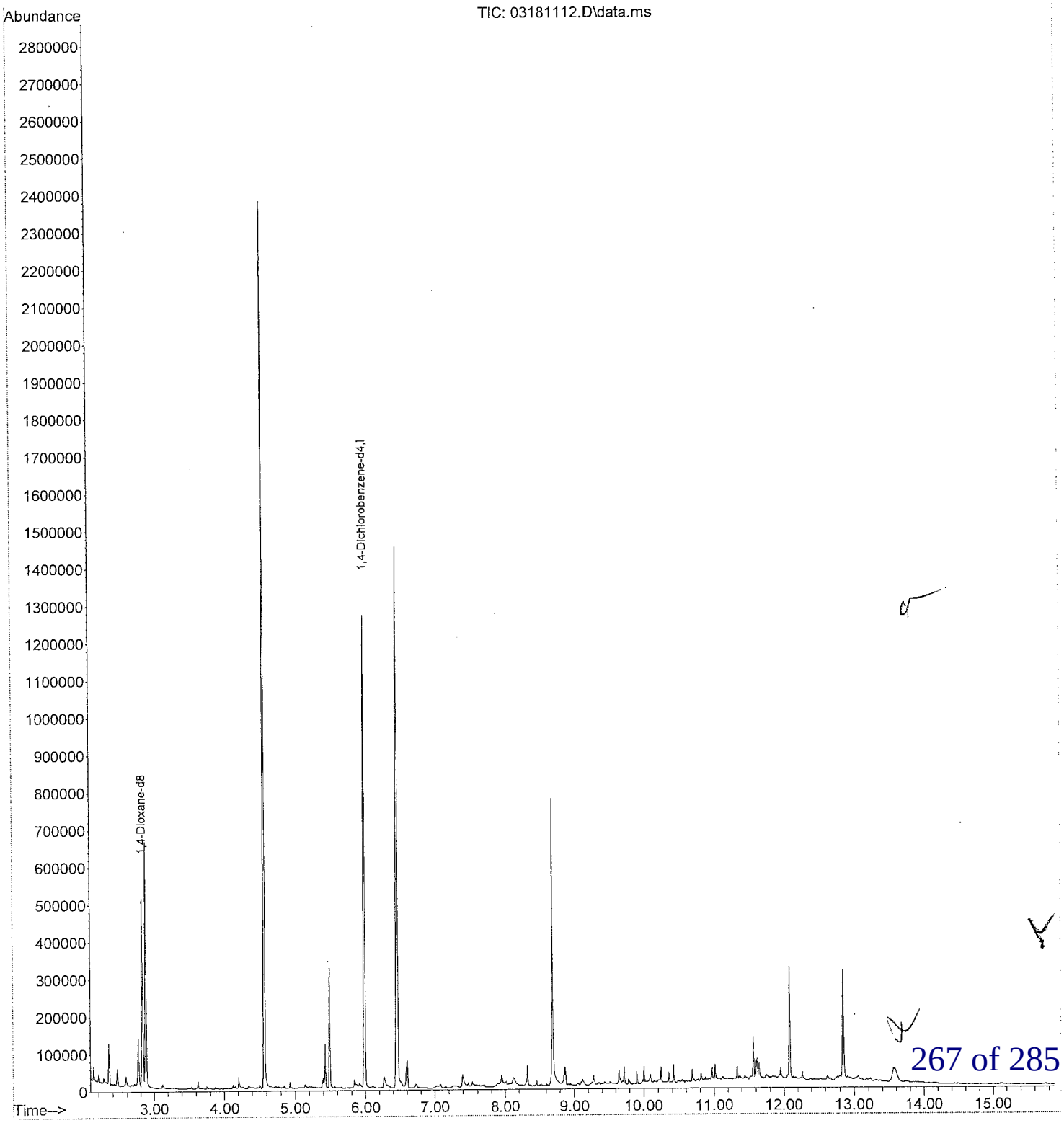
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/22/11 3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181112.D
Acq On : 18 Mar 2011 1:26 pm
Operator : CL/AC
Sample : 11C0614-MS1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 21 15:23:33 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D



Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 21 15:32:55 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270 (1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.93	96	192014m	20.00 ug/mL	0.19
3) 1,4-Dichlorobenzene-d4	5.99	152	225522	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.46	82	700223	17.33 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.99	88	217434m	22.25 ug/mL	
4) 1,4-Dichlorobenzene	5.99	146	777	0.02 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

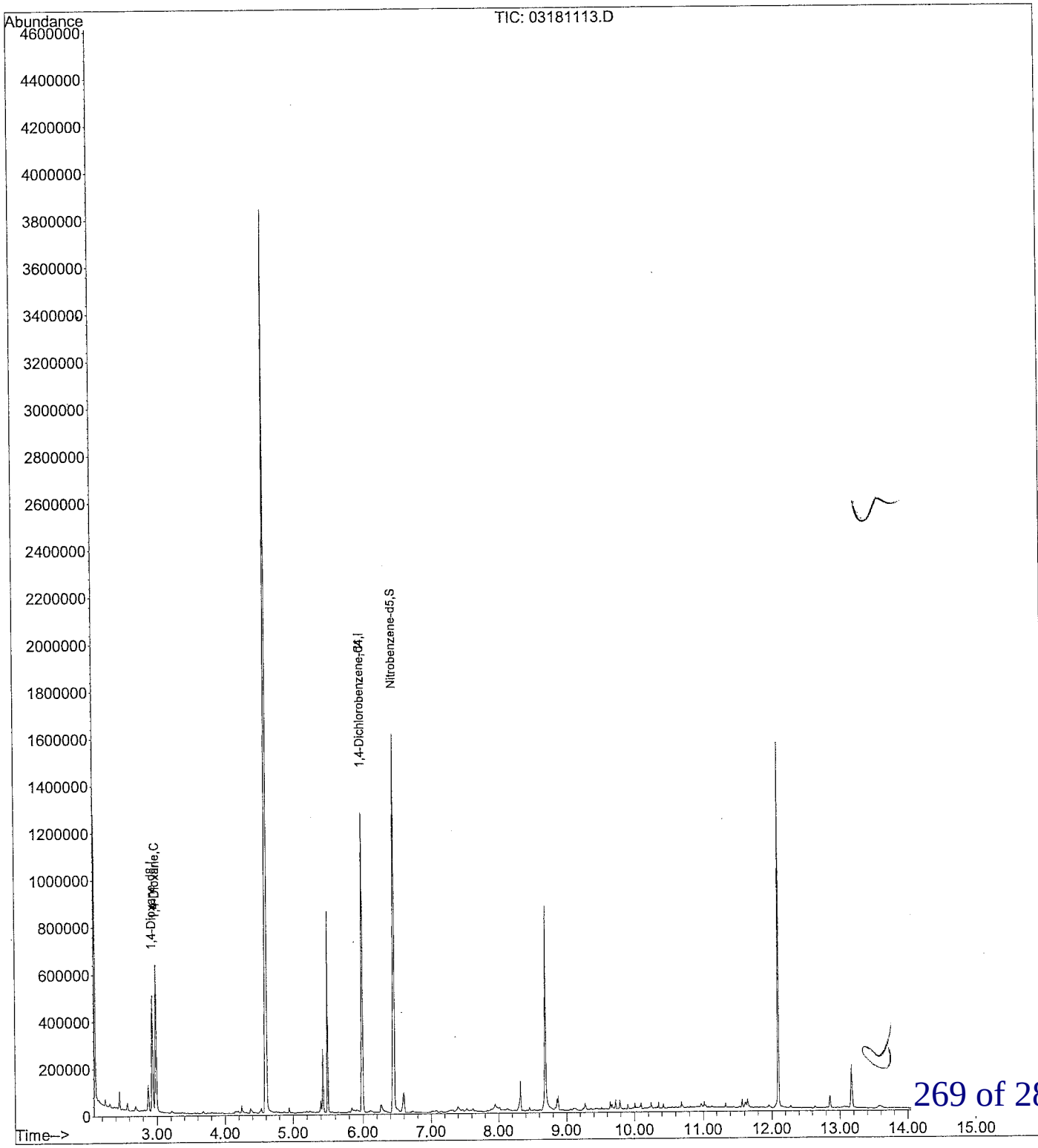
a 3-21-11

3/22/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

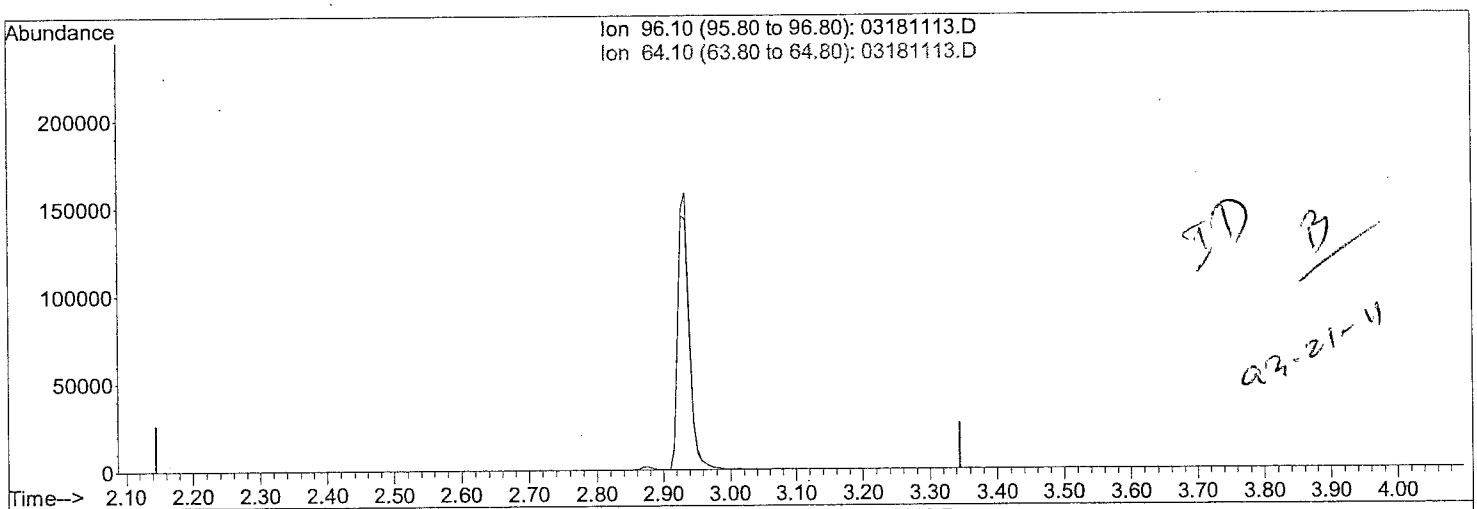
Quant Time: Mar 21 15:32:55 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



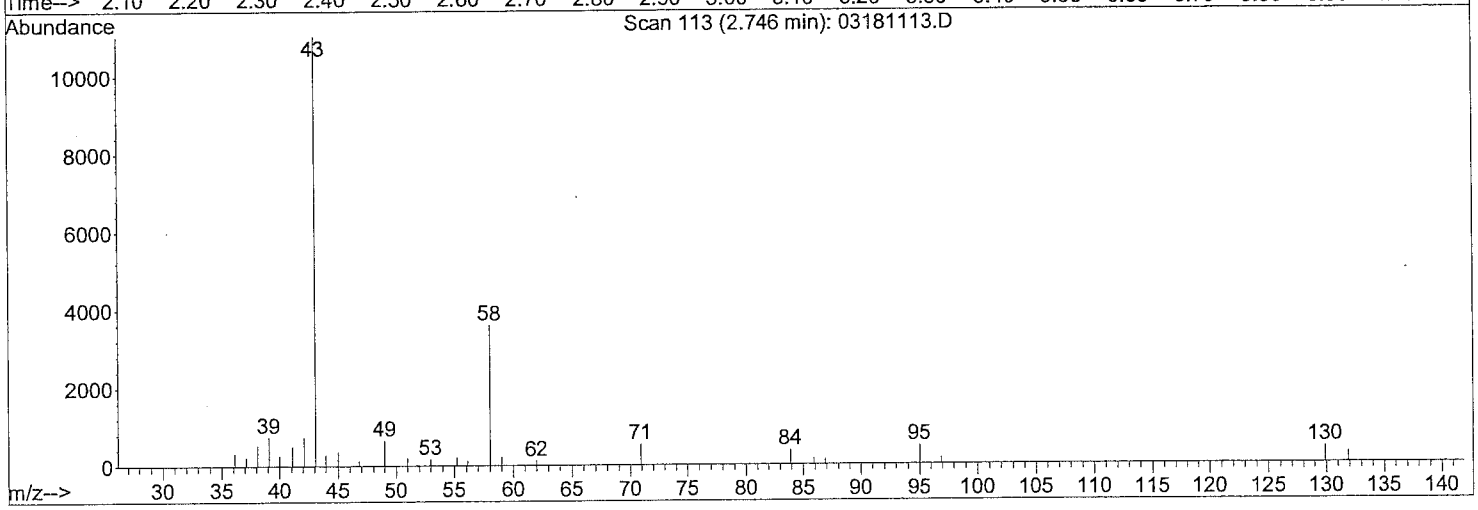
Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 16:52:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



ID B
03-21-11



TIC: 03181113.D

(1) 1,4-Dioxane-d8 (I)

2.746min (-2.746) 0.00ug/mL

response 0

Ion	Exp%	Act%
96.10	100	0.00
64.10	93.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

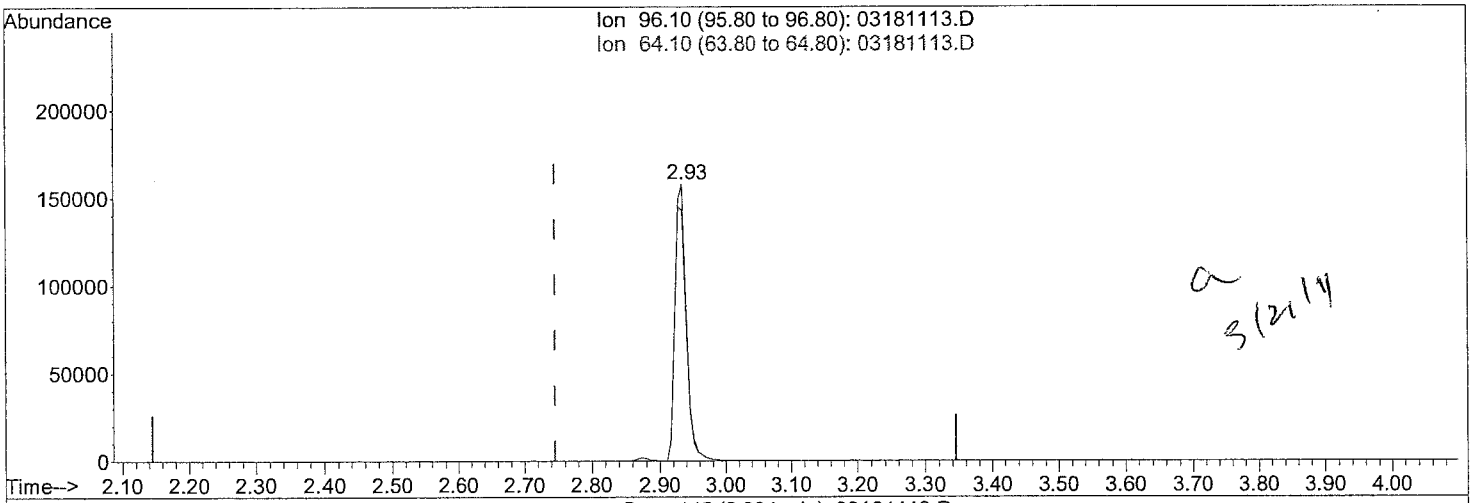
3/22/11

3/22/11

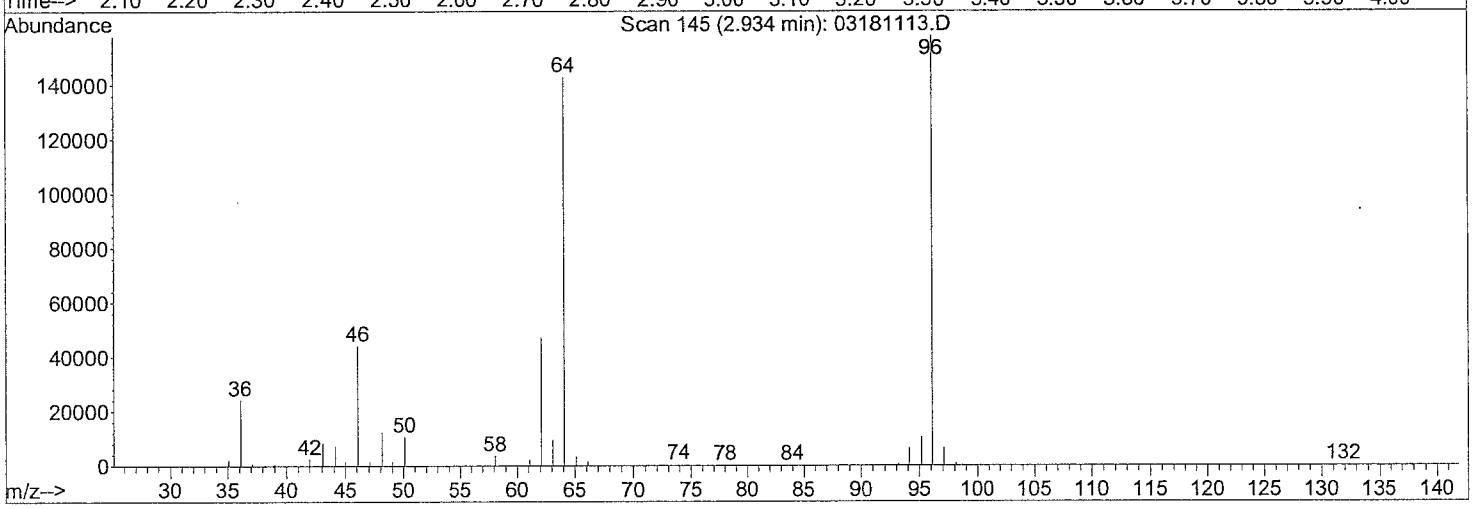
Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 16:52:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



a 3/21/11



TIC: 03181113.D

(1) 1,4-Dioxane-d8 (I)

2.934min (+0.188) 20.00ug/mL m

response 192014

Ion	Exp%	Act%
96.10	100	100
64.10	93.60	93.10
0.00	0.00	0.00
0.00	0.00	0.00

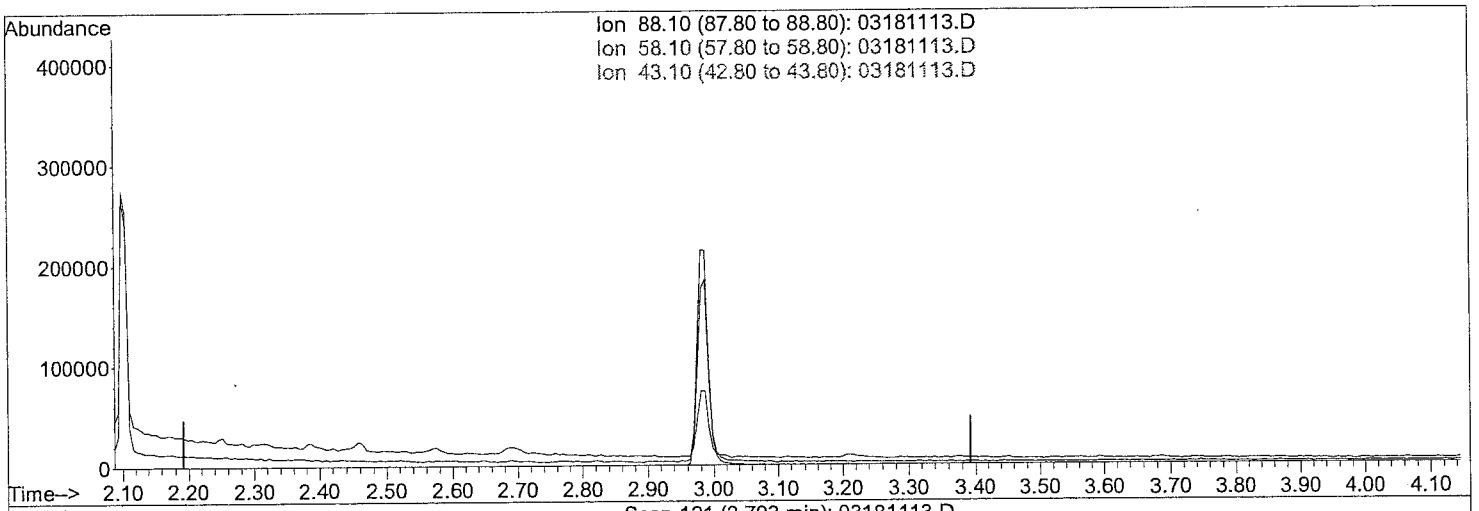
3/21/11

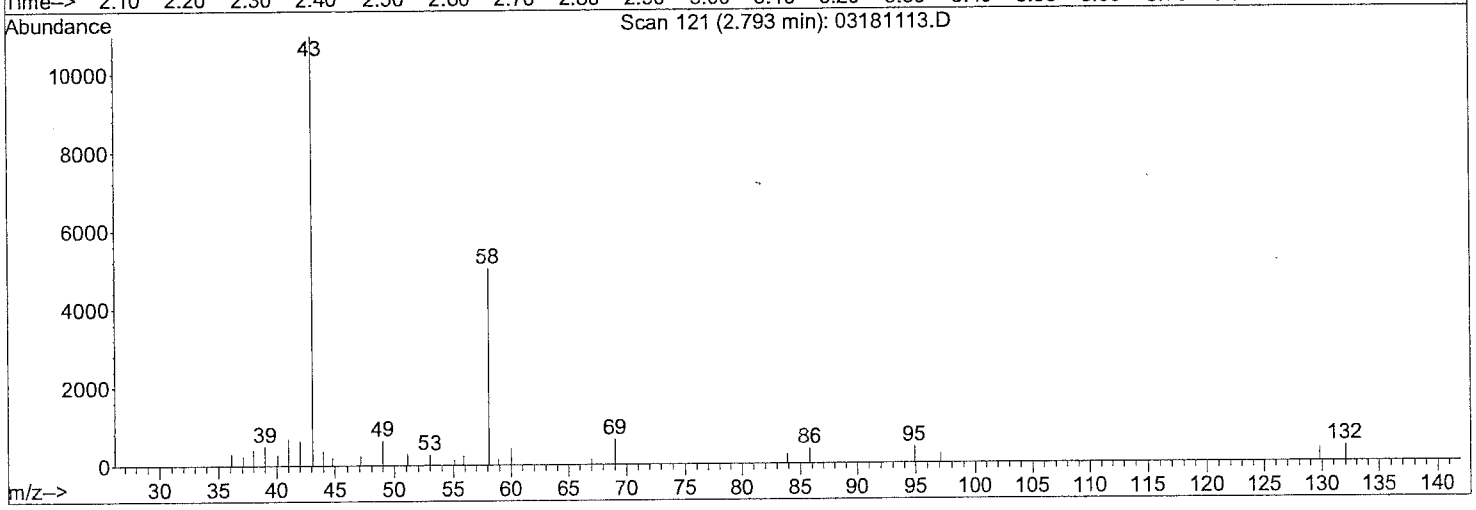
3/21/11

Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 16:52:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration





TIC: 03181113.D

(2) 1,4-Dioxane (C)

2.793min (-2.793) 0.00ug/mL

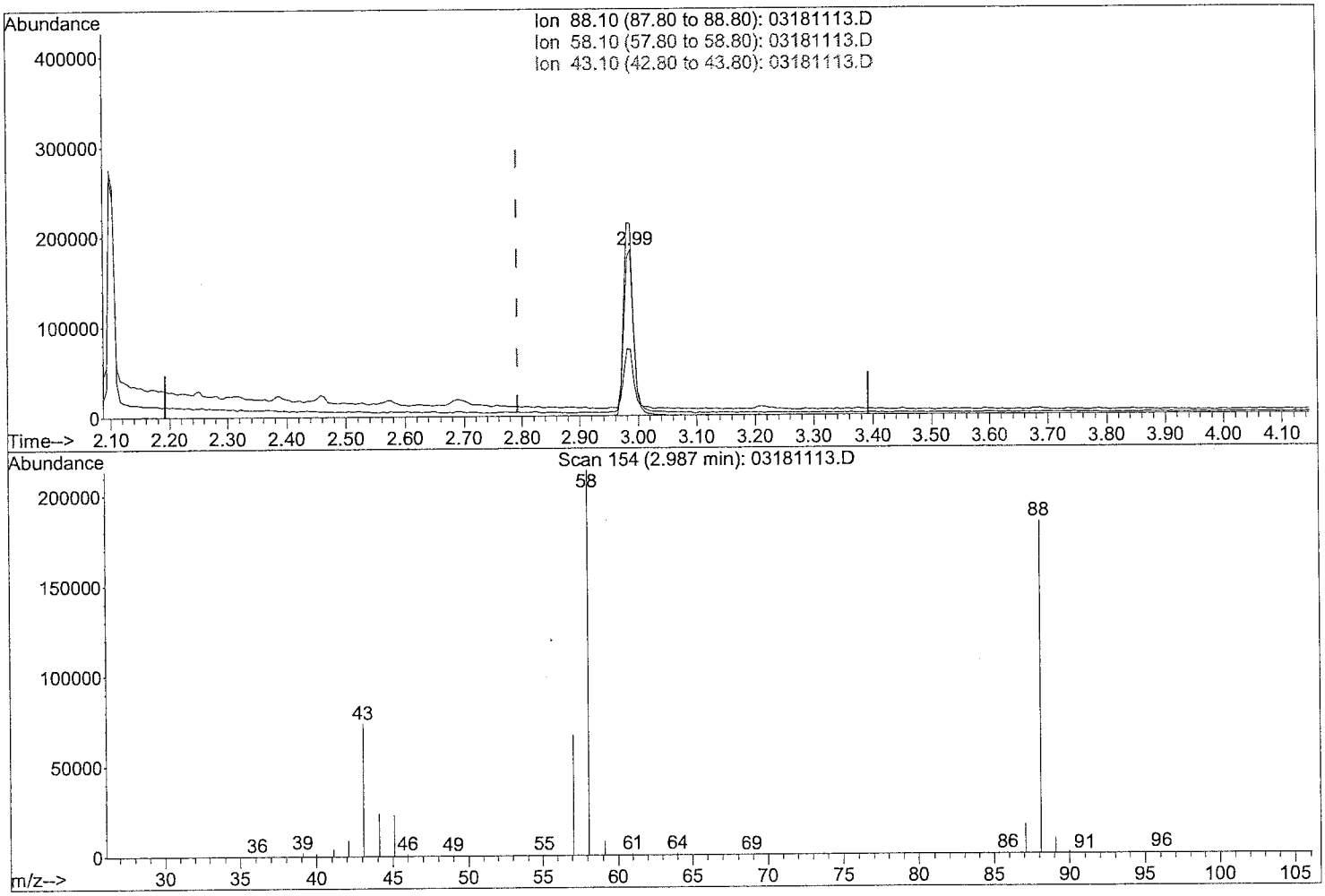
response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	112.80	0.00#
43.10	35.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 16:52:47 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



TIC: 03181113.D

(2) 1,4-Dioxane (C)

2.987min (+0.194) 22.25ug/mL m

response 217434

Ion	Exp%	Act%
88.10	100	100
58.10	112.80	123.73
43.10	35.80	48.44
0.00	0.00	0.00

A
03-21-11
Bzell 3/22/11

Sample Name 11C0614-MSD1
Data File Name 03181113.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 13:52
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	225522	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/20/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 21 15:54:08 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031811\03181106.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.99	152	225522	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.93	96	191403m	14.62 ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

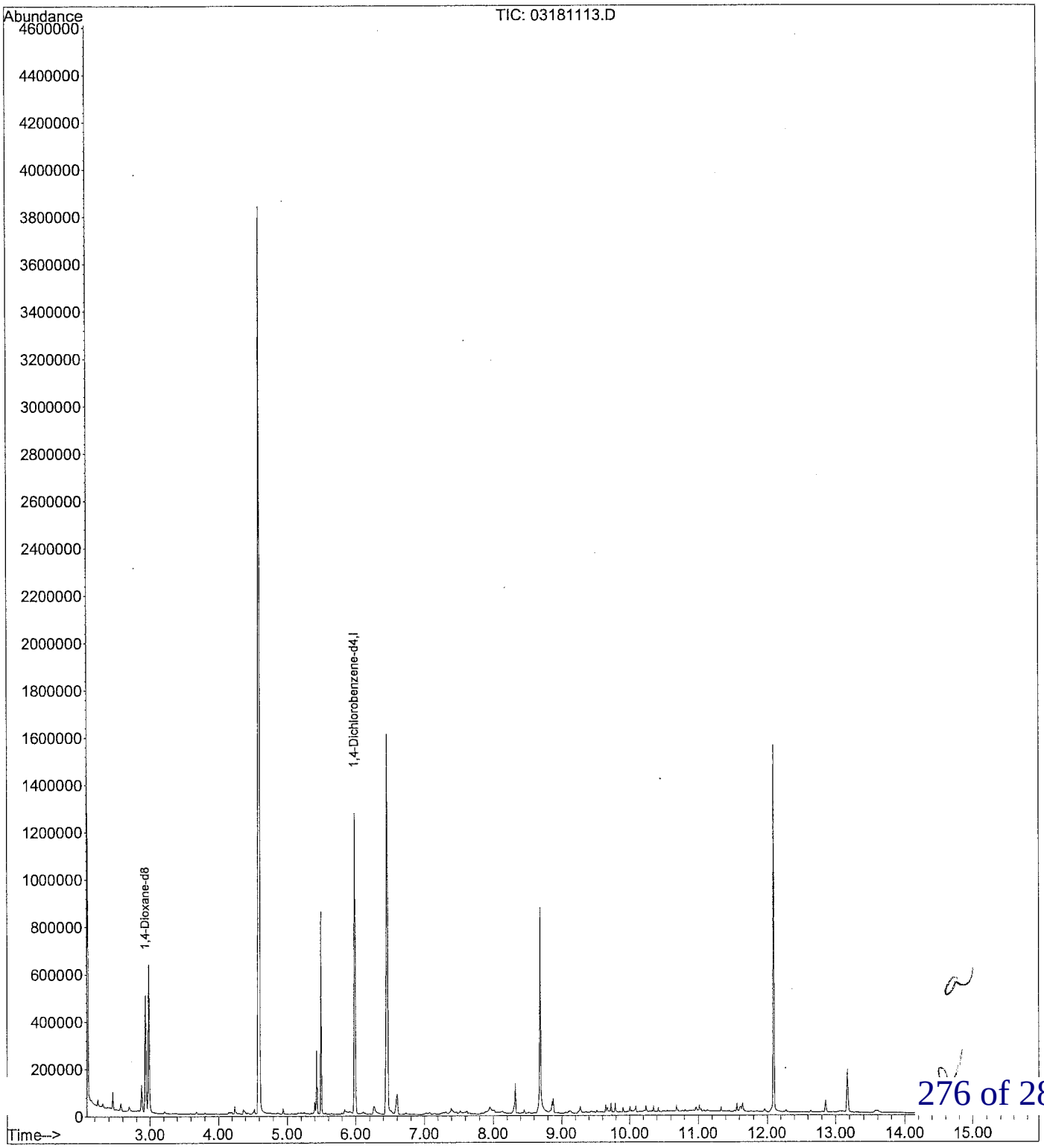
a 3-21-11

3/22/11

Quantitation Report (QT Reviewed)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

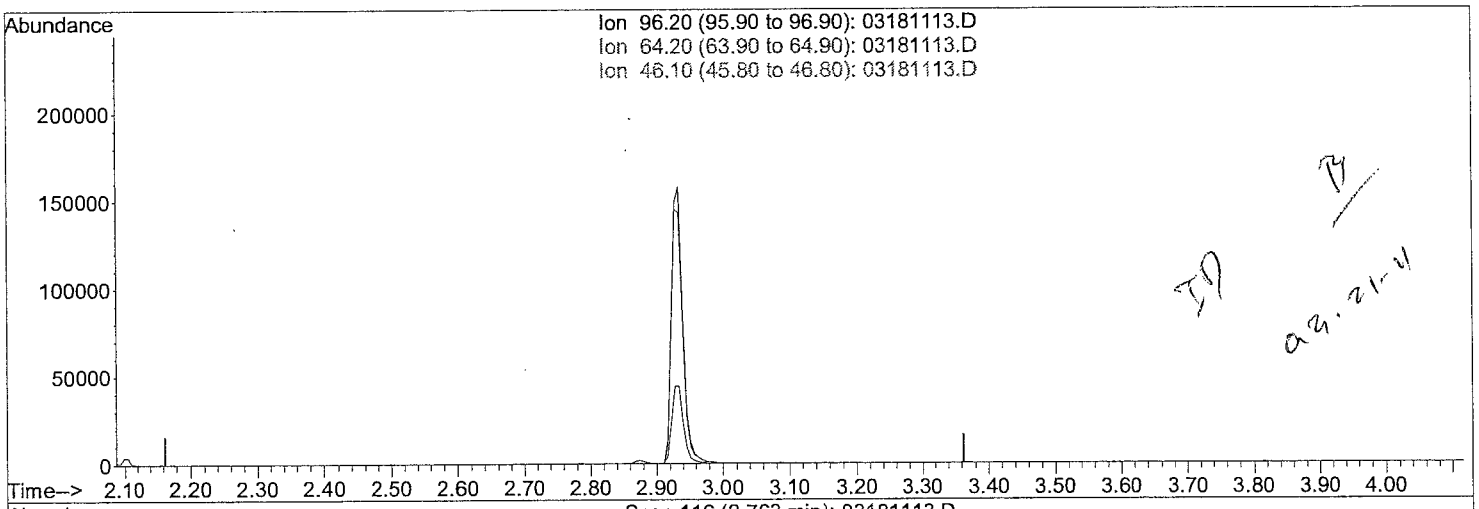
Quant Time: Mar 21 15:54:08 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031811\03181106.D

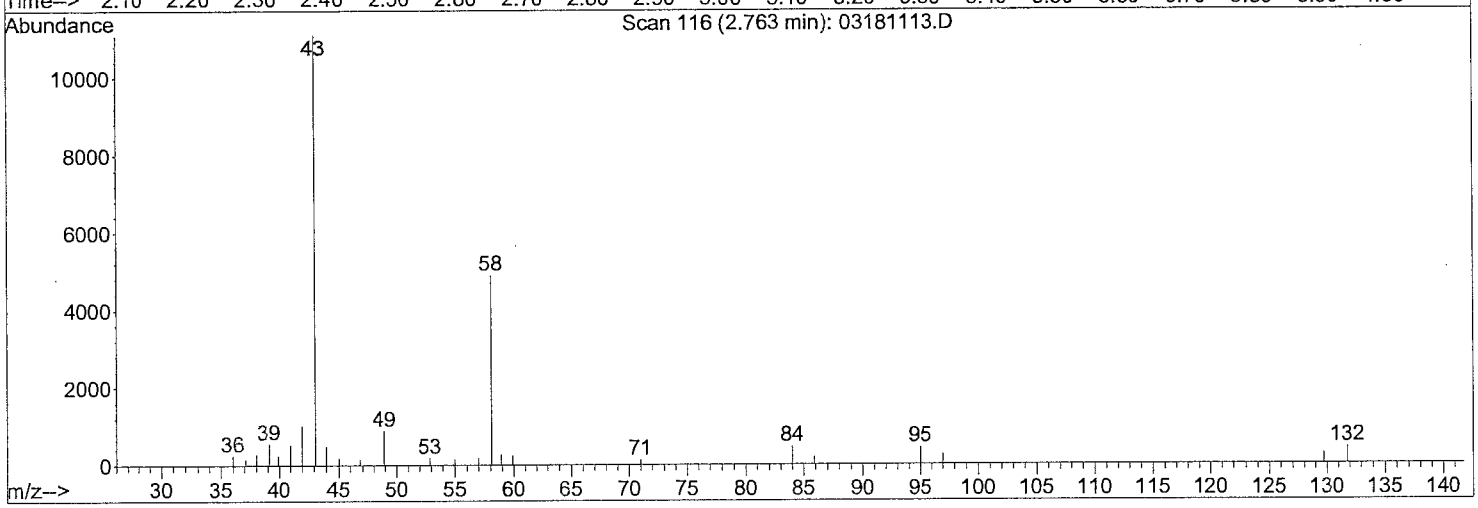


Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 21 15:23:37 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031811\03181106.D





TIC: 03181113.D

(2) 1,4-Dioxane-d8

2.763min (-2.763) 0.00ug/mL

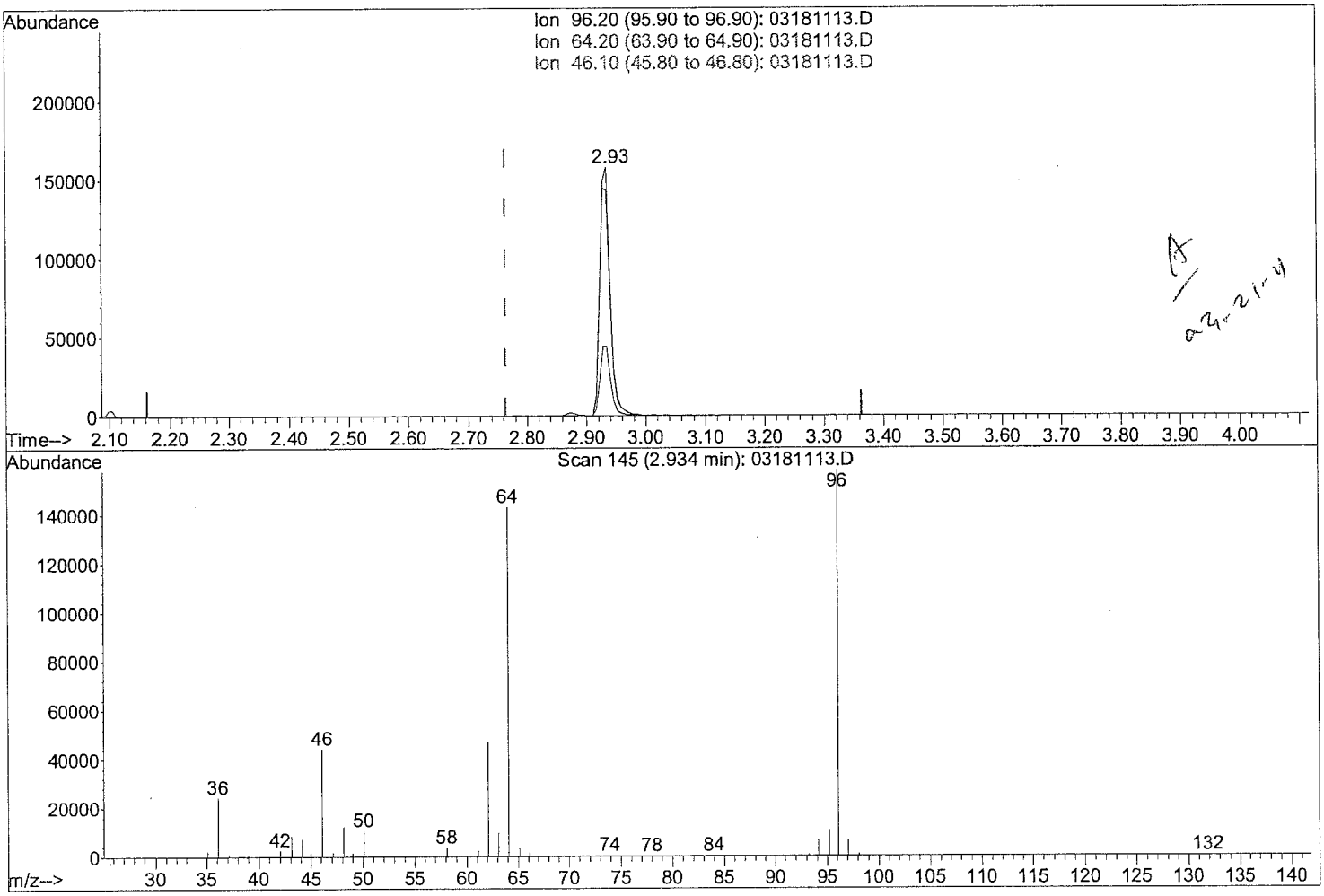
response 0

Ion	Exp%	Act%
96.20	100	0.00
64.20	91.30	0.00#
46.10	30.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181113.D
Acq On : 18 Mar 2011 1:52 pm
Operator : CL/AC
Sample : 11C0614-MSD1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 21 15:23:37 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:\msdchem\1\GCMS14\DATA\031811\03181106.D



TIC: 03181113.D

(2) 1,4-Dioxane-d8

2.934min (+0.170) 14.62ug/mL m

response 191403

Ion	Exp%	Act%
96.20	100	100
64.20	91.30	93.22
46.10	30.00	28.41
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181122.D
Acq On : 18 Mar 2011 5:51 pm
Operator : CL/AC
Sample : PUC1004-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 18 18:16:58 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.845	96	186962	20.00 ug/mL	0.10
3) 1,4-Dichlorobenzene-d4	5.992	152	221353	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.457	82	656703	16.56 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.898	88	12950m	1.36 ug/mL	
4) 1,4-Dichlorobenzene	5.992	146	571	0.02 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

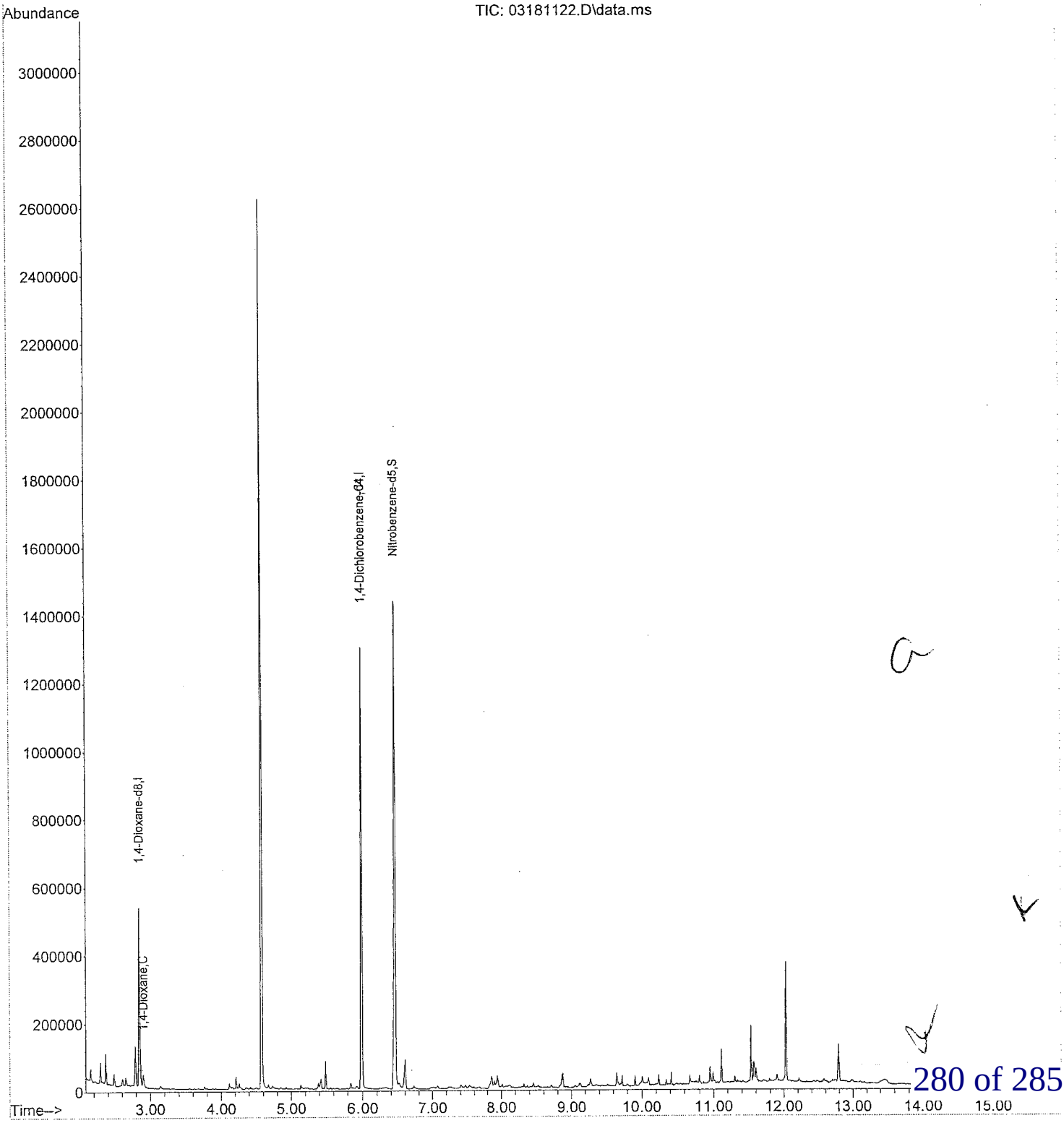
3/22/11

3/22/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181122.D
Acq On : 18 Mar 2011 5:51 pm
Operator : CL/AC
Sample : PUC1004-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

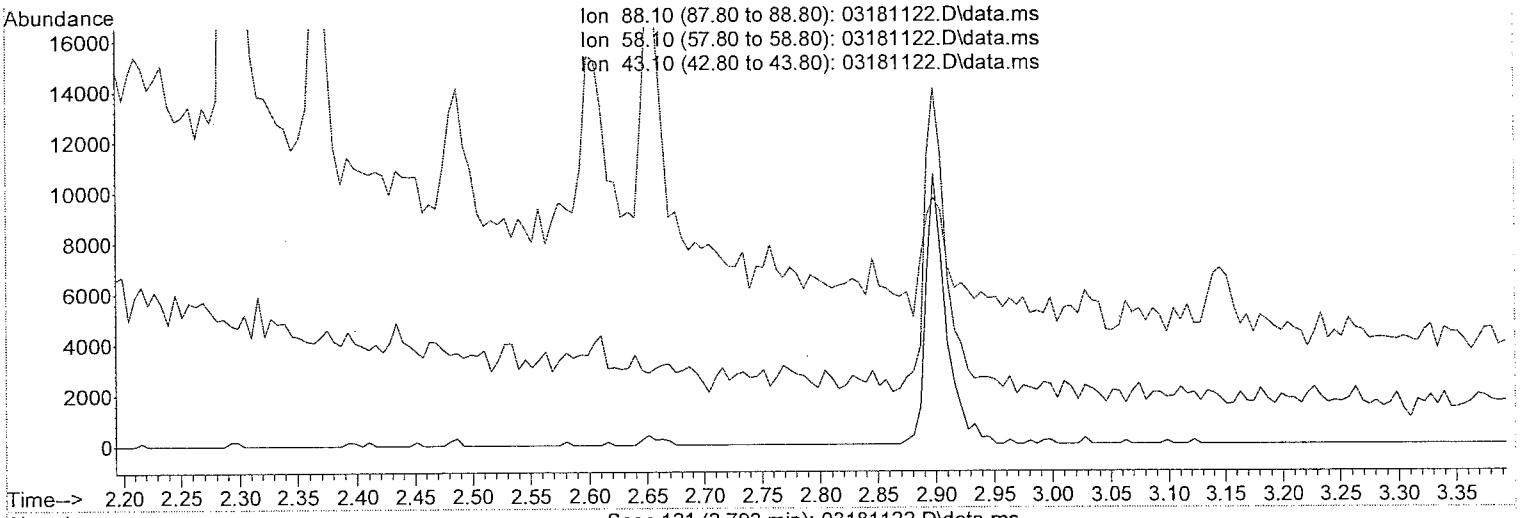
Quant Time: Mar 18 18:16:58 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

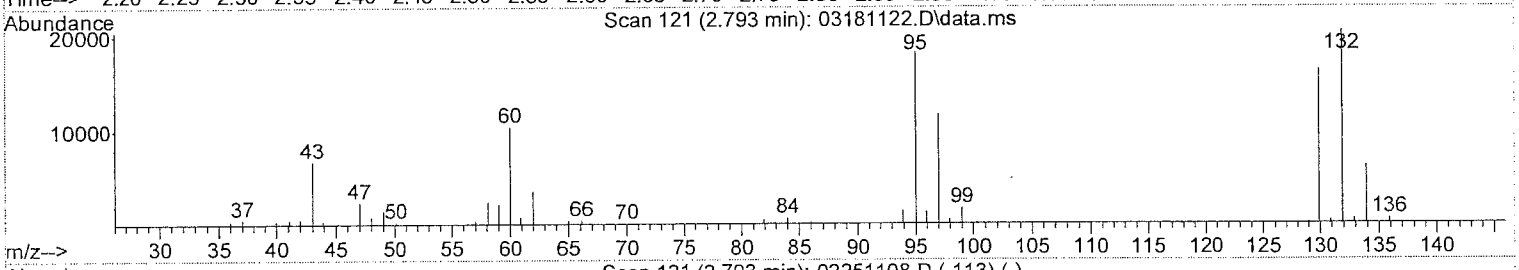


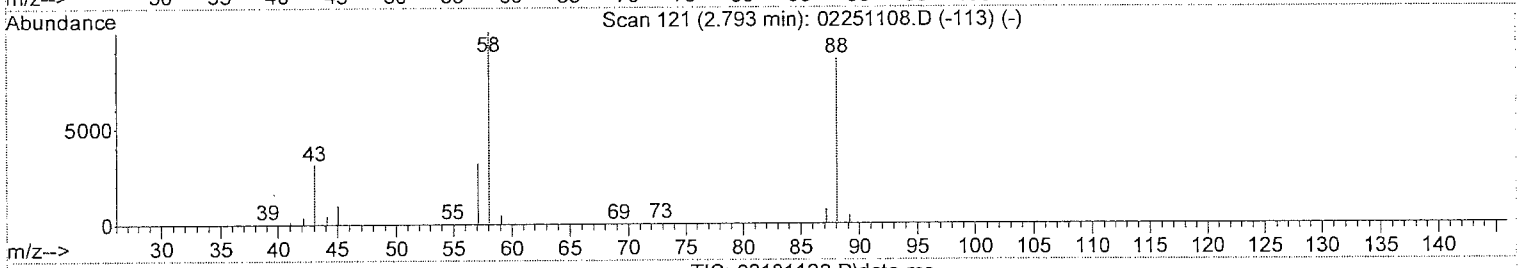
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181122.D
Acq On : 18 Mar 2011 5:51 pm
Operator : CL/AC
Sample : PUC1004-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 18 18:14:33 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration







TIC: 03181122.D\data.ms

ID

(2) 1,4-Dioxane (C)

2.793min (-2.793) 0.00ug/mL

response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	112.80	0.00#
43.10	35.80	0.00#
0.00	0.00	0.00

03-21-11

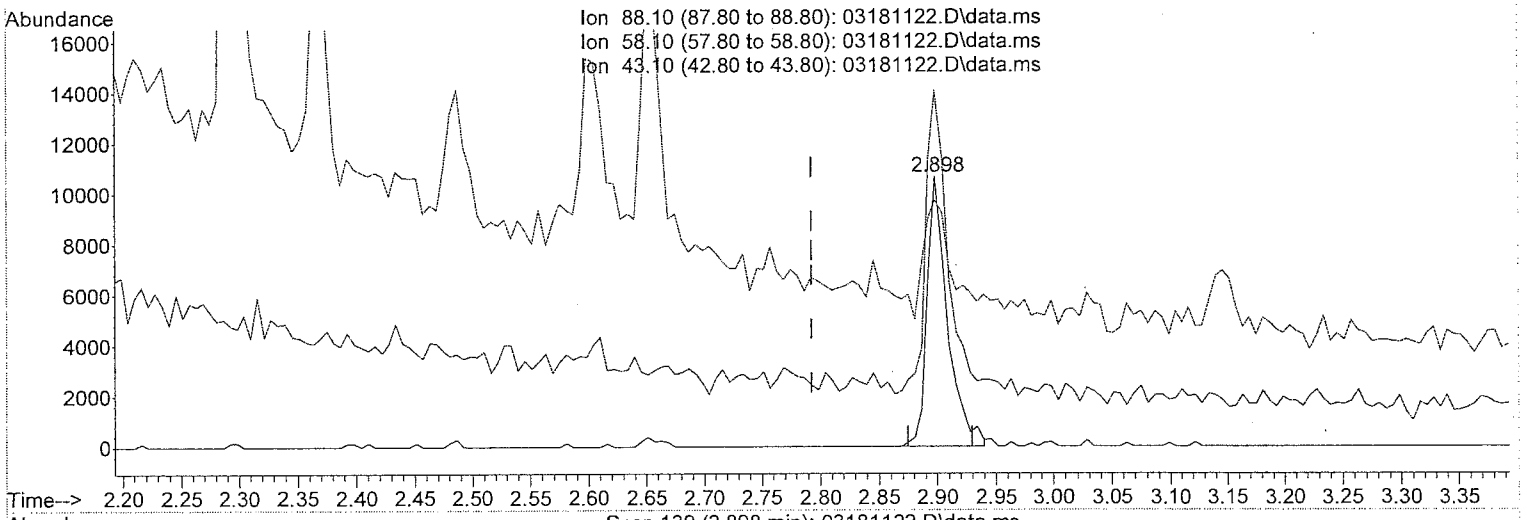
3/22/11

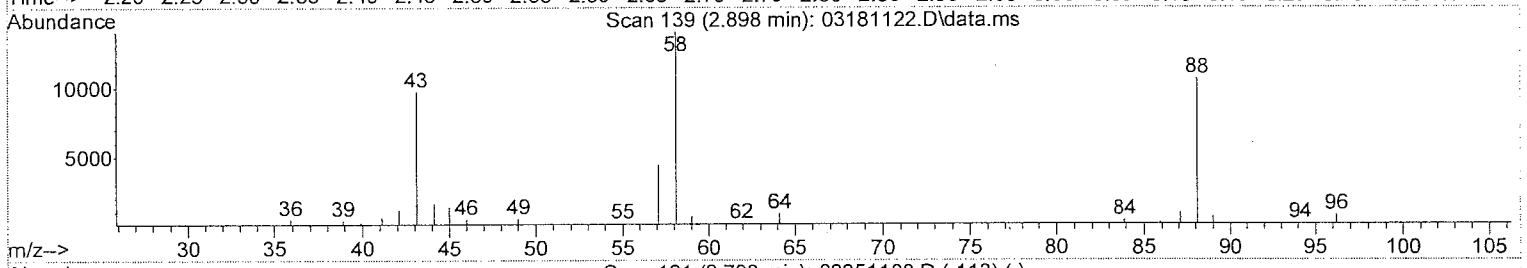
3/22/11

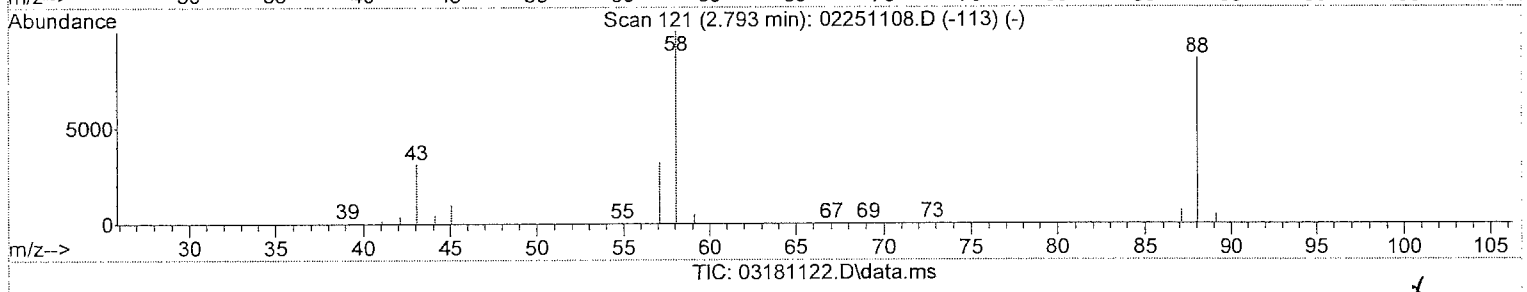
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181122.D
Acq On : 18 Mar 2011 5:51 pm
Operator : CL/AC
Sample : PUC1004-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 18 18:14:33 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration







TIC: 03181122.D\data.ms

(2) 1,4-Dioxane (C)

2.898min (+0.106) 1.36ug/mL m

response 12950

Ion	Exp%	Act%
88.10	100	100
58.10	112.80	106.56
43.10	35.80	42.49
0.00	0.00	0.00

A

03-21-11

3/22/11

3/22/11

Sample Name PUC1004-01
Data File Name 03181122.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 17:51
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181106.D
D:\msdchem\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	221353	236564	118282	473128	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/22/11

Quantitation Report (Not Reviewed)

03-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181122.D
Acq On : 18 Mar 2011 5:51 pm
Operator : CL/AC
Sample : PUC1004-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 21 15:24:14 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D

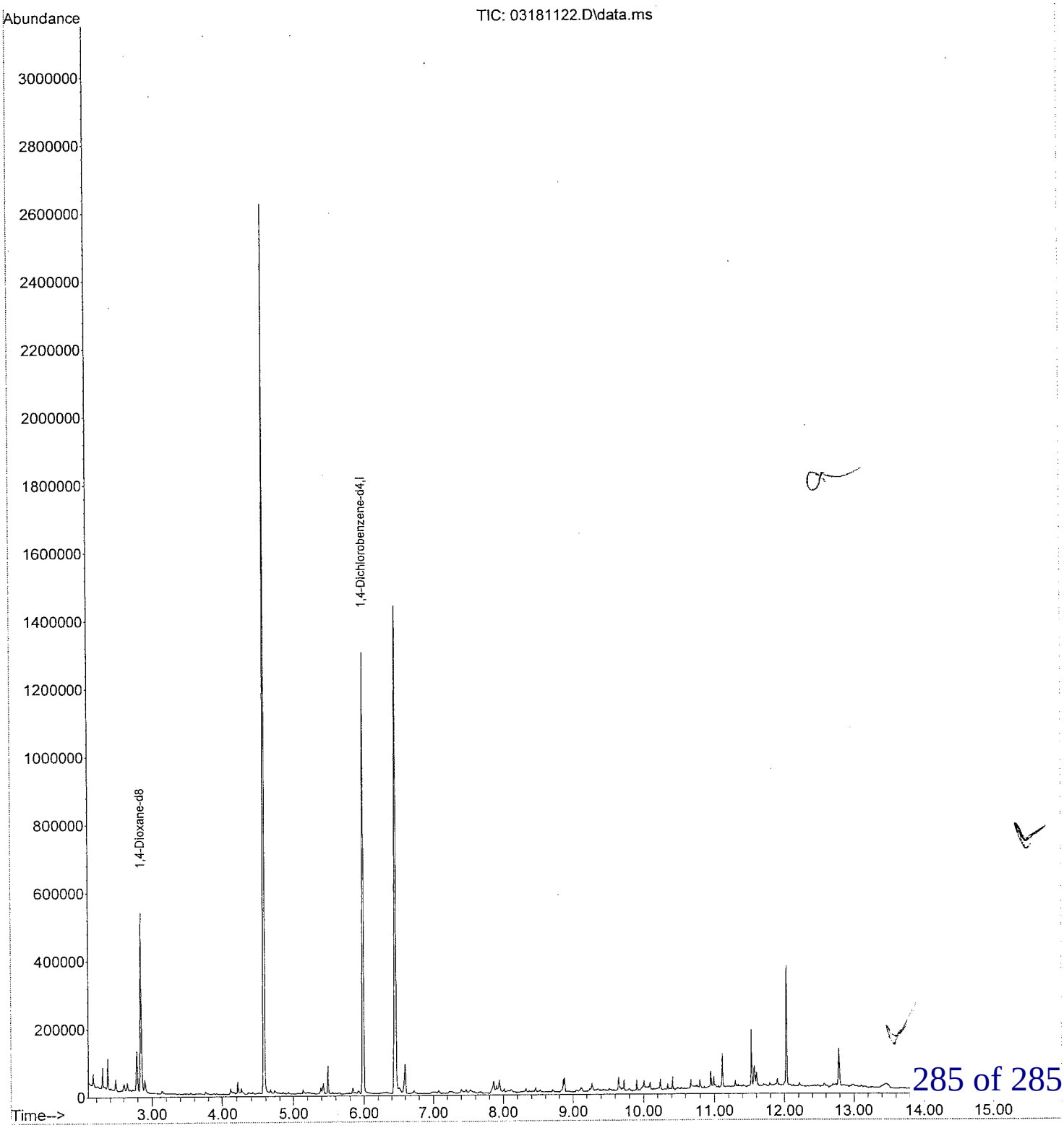
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	221353	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.845	96	187083	14.56 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181122.D
Acq On : 18 Mar 2011 5:51 pm
Operator : CL/AC
Sample : PUC1004-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 21 15:24:14 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811A_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 15:22:11 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181106.D



Level III Data Package

Environmental Resources Management Inc.

TestAmerica Work Order Number:

PUC1113

Prepared for:

Jason Hilker
Environmental Resources Management, Inc.
7272 East Indian School Road, Suite 100
Scottsdale, AZ 85251

QA/QC DATA PACKAGE: LEVEL III

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

LABORATORY REPORT

Prepared For: Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project: 0096498.009

Sampled: 03/16/11
Received: 03/16/11
Issued: 03/24/11 08:47

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PUC1113-01	OU3-5MR-M-031611	Water

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
L3-Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
R1-The RPD exceeded the acceptance limit.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

CHAIN OF CUSTODY FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
[ ] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
[ ] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 1

Client Name/Address: ERM
7272 E. Indian Scool Rd
Scottsdale, Az 85251

Project/PO Number: 0096498.009

Project Manager: Jason Hilker
Send Report to: Jason.Hilker@ERM.com

Phone Number: 480-998-2401

Sampler: Adam Nagle

Fax Number: 480-998-2106

Analysis Required: VOC (8260B); 1,4-Dioxane (8270C) only; PUC 1113-01

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC (8260B)	1,4-Dioxane (8270C) only								Special Instructions
003-SMR-M-031611	W	40mL / 1L	3 / 2	3/16/11	0946	HCl / -	X	X								LEVEL 3

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)	
ERM	3/16/11 1630			same day ____	72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____	5 days ____
				48 hours ____	normal ✓
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)	
		[signature]	3-16-11 1630	intact ____	on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

3,2'

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC DATA PACKAGE: LEVEL III

ANALYTICAL REPORTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1113-01 (OU3-5MR-M-031611 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	11C0791	10	ND	1	3/22/2011	3/22/2011	V1
Benzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromochloromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromodichloromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Bromoform	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Bromomethane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
2-Butanone (MEK)	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
n-Butylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
sec-Butylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
tert-Butylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Carbon disulfide	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Carbon tetrachloride	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Chlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Chloroethane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Chloroform	EPA 8260B	11C0791	0.50	**0.97**	1	3/22/2011	3/22/2011	
Chloromethane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
2-Chlorotoluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
4-Chlorotoluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Dibromochloromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2-Dibromo-3-chloropropane	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
1,2-Dibromoethane (EDB)	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Dibromomethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2-Dichlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,3-Dichlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,4-Dichlorobenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Dichlorodifluoromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1-Dichloroethane	EPA 8260B	11C0791	0.50	**5.1**	1	3/22/2011	3/22/2011	
1,2-Dichloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1-Dichloroethene	EPA 8260B	11C0791	0.50	**7.0**	1	3/22/2011	3/22/2011	
cis-1,2-Dichloroethene	EPA 8260B	11C0791	0.50	**10**	1	3/22/2011	3/22/2011	
trans-1,2-Dichloroethene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2-Dichloropropane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,3-Dichloropropane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
2,2-Dichloropropane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,1-Dichloropropene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
cis-1,3-Dichloropropene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
trans-1,3-Dichloropropene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Ethylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Hexachlorobutadiene	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	

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Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1113-01 (OU3-5MR-M-031611 - Water) - cont.								
Reporting Units: ug/l								
2-Hexanone	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
Iodomethane	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	L3
Isopropylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
p-Isopropyltoluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Methylene Chloride	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Naphthalene	EPA 8260B	11C0791	2.5	ND	1	3/22/2011	3/22/2011	
n-Propylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Styrene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1,1,2-Tetrachloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1,2,2-Tetrachloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Tetrachloroethene	EPA 8260B	11C0791	0.50	**2.3**	1	3/22/2011	3/22/2011	
Toluene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2,3-Trichlorobenzene	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,2,4-Trichlorobenzene	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,1,1-Trichloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,1,2-Trichloroethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Trichloroethene	EPA 8260B	11C0791	0.50	**50**	1	3/22/2011	3/22/2011	
Trichlorofluoromethane	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,2,3-Trichloropropane	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
1,2,4-Trimethylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
1,3,5-Trimethylbenzene	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Vinyl Acetate	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Vinyl chloride	EPA 8260B	11C0791	0.50	ND	1	3/22/2011	3/22/2011	
Xylenes, Total	EPA 8260B	11C0791	1.0	ND	1	3/22/2011	3/22/2011	
Freon 113	EPA 8260B	11C0791	2.0	ND	1	3/22/2011	3/22/2011	
Surrogate: Dibromofluoromethane (70-130%)				*95 %*				
Surrogate: Toluene-d8 (70-130%)				*91 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)				*89 %*				

TestAmerica Phoenix

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Environmental Resources Management Inc.-West
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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUC1113-01 (OU3-5MR-M-031611 - Water)								
Reporting Units: ug/l								
1,4-Dioxane	SW8270C	11C0675	1.0	**2.3**	1	3/17/2011	3/18/2011	
Surrogate: 1,4-Dioxane-d8 (20-105%)				*67 %*				
Surrogate: Nitrobenzene-d5 (30-130%)				*78 %*				

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QA/QC DATA PACKAGE: LEVEL III

QUALITY CONTROL SUMMARIES

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Blank Analyzed: 03/22/2011 (11C0791-BLK1)										
Acetone	ND	10	ug/l							*V1*
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
2-Butanone (MEK)	ND	2.5	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Carbon disulfide	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.5	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
1,2-Dichlorobenzene	ND	0.50	ug/l							
1,3-Dichlorobenzene	ND	0.50	ug/l							
1,4-Dichlorobenzene	ND	0.50	ug/l							
Dichlorodifluoromethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Blank Analyzed: 03/22/2011 (11C0791-BLK1)										
1,1-Dichloropropene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
2-Hexanone	ND	2.5	ug/l							
Iodomethane	ND	2.5	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
Methylene Chloride	ND	1.0	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	2.5	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	ug/l							
Naphthalene	ND	2.5	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
Vinyl Acetate	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Freon 113	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*22.8*		*ug/l*	*25.0*		*91*	*70-130*			
Surrogate: Toluene-d8	*22.6*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.0*		*ug/l*	*25.0*		*88*	*70-130*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Analyzed: 03/22/2011 (11C0791-BS1)										
Acetone	30.6	10	ug/l	25.0		122	30-150			*V1*
Benzene	20.1	0.50	ug/l	25.0		81	70-130			
Bromobenzene	21.1	0.50	ug/l	25.0		85	70-130			
Bromochloromethane	20.9	0.50	ug/l	25.0		84	70-130			
Bromodichloromethane	21.2	0.50	ug/l	25.0		85	70-130			
Bromoform	22.1	1.0	ug/l	25.0		89	67-122			
Bromomethane	20.8	1.0	ug/l	25.0		83	64-132			
2-Butanone (MEK)	25.6	2.5	ug/l	25.0		103	48-150			
n-Butylbenzene	22.0	0.50	ug/l	25.0		88	70-130			
sec-Butylbenzene	21.0	0.50	ug/l	25.0		84	70-130			
tert-Butylbenzene	21.0	0.50	ug/l	25.0		84	70-130			
Carbon disulfide	29.0	0.50	ug/l	25.0		116	61-126			
Carbon tetrachloride	21.4	0.50	ug/l	25.0		86	70-130			
Chlorobenzene	20.7	0.50	ug/l	25.0		83	70-130			
Chloroethane	21.3	1.0	ug/l	25.0		85	69-128			
Chloroform	20.2	0.50	ug/l	25.0		81	70-130			
Chloromethane	17.5	1.0	ug/l	25.0		70	56-131			
2-Chlorotoluene	20.4	0.50	ug/l	25.0		82	70-130			
4-Chlorotoluene	21.3	0.50	ug/l	25.0		85	70-130			
Dibromochloromethane	21.7	0.50	ug/l	25.0		87	70-130			
1,2-Dibromo-3-chloropropane	21.4	2.5	ug/l	25.0		86	63-129			
1,2-Dibromoethane (EDB)	21.3	0.50	ug/l	25.0		85	70-130			
Dibromomethane	21.1	0.50	ug/l	25.0		84	70-130			
1,2-Dichlorobenzene	20.8	0.50	ug/l	25.0		83	70-130			
1,3-Dichlorobenzene	20.9	0.50	ug/l	25.0		84	70-130			
1,4-Dichlorobenzene	20.9	0.50	ug/l	25.0		83	70-130			
Dichlorodifluoromethane	20.6	0.50	ug/l	25.0		82	42-150			
1,1-Dichloroethane	20.6	0.50	ug/l	25.0		82	70-130			
1,2-Dichloroethane	20.8	0.50	ug/l	25.0		83	72-133			
1,1-Dichloroethene	25.7	0.50	ug/l	25.0		103	70-130			
cis-1,2-Dichloroethene	19.9	0.50	ug/l	25.0		79	70-130			
trans-1,2-Dichloroethene	21.1	0.50	ug/l	25.0		84	70-130			
1,2-Dichloropropane	20.7	0.50	ug/l	25.0		83	70-130			
1,3-Dichloropropane	20.9	0.50	ug/l	25.0		84	70-130			
2,2-Dichloropropane	21.0	1.0	ug/l	25.0		84	70-130			

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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Analyzed: 03/22/2011 (11C0791-BS1)										
1,1-Dichloropropene	21.0	0.50	ug/l	25.0		84	70-130			
cis-1,3-Dichloropropene	21.4	0.50	ug/l	25.0		86	70-130			
trans-1,3-Dichloropropene	22.4	0.50	ug/l	25.0		89	70-130			
Ethylbenzene	20.7	0.50	ug/l	25.0		83	70-130			
Hexachlorobutadiene	22.0	1.0	ug/l	25.0		88	70-130			
2-Hexanone	24.6	2.5	ug/l	25.0		98	44-150			
Iodomethane	38.3	2.5	ug/l	25.0		153	58-138			*L3*
Isopropylbenzene	22.9	0.50	ug/l	25.0		92	70-130			
p-Isopropyltoluene	21.9	0.50	ug/l	25.0		88	70-130			
Methylene Chloride	24.7	1.0	ug/l	25.0		99	70-130			
4-Methyl-2-pentanone (MIBK)	23.5	2.5	ug/l	25.0		94	61-142			
Methyl-tert-butyl Ether (MTBE)	20.0	0.50	ug/l	25.0		80	70-130			
Naphthalene	24.0	2.5	ug/l	25.0		96	65-129			
n-Propylbenzene	21.8	0.50	ug/l	25.0		87	70-130			
Styrene	21.6	0.50	ug/l	25.0		86	70-130			
1,1,1,2-Tetrachloroethane	20.8	0.50	ug/l	25.0		83	70-130			
1,1,2,2-Tetrachloroethane	21.4	0.50	ug/l	25.0		86	70-130			
Tetrachloroethene	20.8	0.50	ug/l	25.0		83	70-130			
Toluene	20.2	0.50	ug/l	25.0		81	70-130			
1,2,3-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-130			
1,2,4-Trichlorobenzene	23.8	1.0	ug/l	25.0		95	70-130			
1,1,1-Trichloroethane	20.9	0.50	ug/l	25.0		84	70-130			
1,1,2-Trichloroethane	21.2	0.50	ug/l	25.0		85	70-130			
Trichloroethene	20.7	0.50	ug/l	25.0		83	70-130			
Trichlorofluoromethane	23.8	0.50	ug/l	25.0		95	78-149			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	70-130			
1,2,4-Trimethylbenzene	21.9	0.50	ug/l	25.0		88	70-130			
1,3,5-Trimethylbenzene	21.4	0.50	ug/l	25.0		86	70-130			
Vinyl Acetate	26.4	1.0	ug/l	25.0		105	57-149			
Vinyl chloride	21.0	0.50	ug/l	25.0		84	66-134			
Xylenes, Total	41.1	1.0	ug/l	50.0		82	70-130			
Freon 113	24.5	2.0	ug/l	25.0		98	63-136			
Surrogate: Dibromofluoromethane	*23.2*		*ug/l*	*25.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*22.6*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.2*		*ug/l*	*25.0*		*89*	*70-130*			

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Dup Analyzed: 03/22/2011 (11C0791-BSD1)										
Acetone	28.4	10	ug/l	25.0		113	30-150	7	35	*VI*
Benzene	20.0	0.50	ug/l	25.0		80	70-130	0.7	20	
Bromobenzene	22.0	0.50	ug/l	25.0		88	70-130	4	20	
Bromochloromethane	20.8	0.50	ug/l	25.0		83	70-130	0.5	20	
Bromodichloromethane	21.0	0.50	ug/l	25.0		84	70-130	0.9	20	
Bromoform	23.0	1.0	ug/l	25.0		92	67-122	4	20	
Bromomethane	18.3	1.0	ug/l	25.0		73	64-132	13	20	
2-Butanone (MEK)	23.3	2.5	ug/l	25.0		93	48-150	9	33	
n-Butylbenzene	22.0	0.50	ug/l	25.0		88	70-130	0.3	20	
sec-Butylbenzene	21.0	0.50	ug/l	25.0		84	70-130	0.1	20	
tert-Butylbenzene	21.3	0.50	ug/l	25.0		85	70-130	1	20	
Carbon disulfide	23.5	0.50	ug/l	25.0		94	61-126	21	20	*R6*
Carbon tetrachloride	21.2	0.50	ug/l	25.0		85	70-130	1	20	
Chlorobenzene	20.0	0.50	ug/l	25.0		80	70-130	3	20	
Chloroethane	19.9	1.0	ug/l	25.0		79	69-128	7	20	
Chloroform	19.6	0.50	ug/l	25.0		78	70-130	3	20	
Chloromethane	16.5	1.0	ug/l	25.0		66	56-131	6	20	
2-Chlorotoluene	20.6	0.50	ug/l	25.0		82	70-130	0.8	20	
4-Chlorotoluene	21.4	0.50	ug/l	25.0		86	70-130	0.5	20	
Dibromochloromethane	20.8	0.50	ug/l	25.0		83	70-130	4	20	
1,2-Dibromo-3-chloropropane	22.4	2.5	ug/l	25.0		90	63-129	4	25	
1,2-Dibromoethane (EDB)	20.8	0.50	ug/l	25.0		83	70-130	2	20	
Dibromomethane	21.7	0.50	ug/l	25.0		87	70-130	3	20	
1,2-Dichlorobenzene	21.2	0.50	ug/l	25.0		85	70-130	2	20	
1,3-Dichlorobenzene	21.2	0.50	ug/l	25.0		85	70-130	1	20	
1,4-Dichlorobenzene	21.4	0.50	ug/l	25.0		85	70-130	2	20	
Dichlorodifluoromethane	19.2	0.50	ug/l	25.0		77	42-150	7	20	
1,1-Dichloroethane	20.0	0.50	ug/l	25.0		80	70-130	3	20	
1,2-Dichloroethane	20.2	0.50	ug/l	25.0		81	72-133	3	20	
1,1-Dichloroethene	20.0	0.50	ug/l	25.0		80	70-130	25	20	*R6*
cis-1,2-Dichloroethene	19.5	0.50	ug/l	25.0		78	70-130	2	20	
trans-1,2-Dichloroethene	20.3	0.50	ug/l	25.0		81	70-130	4	20	
1,2-Dichloropropane	21.0	0.50	ug/l	25.0		84	70-130	1	20	
1,3-Dichloropropane	20.8	0.50	ug/l	25.0		83	70-130	0.2	20	
2,2-Dichloropropane	20.3	1.0	ug/l	25.0		81	70-130	3	20	

TestAmerica Phoenix

Kylie Emily
Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
LCS Dup Analyzed: 03/22/2011 (11C0791-BSD1)										
1,1-Dichloropropene	20.9	0.50	ug/l	25.0		84	70-130	0.5	20	
cis-1,3-Dichloropropene	21.2	0.50	ug/l	25.0		85	70-130	0.9	20	
trans-1,3-Dichloropropene	21.7	0.50	ug/l	25.0		87	70-130	3	20	
Ethylbenzene	20.0	0.50	ug/l	25.0		80	70-130	3	20	
Hexachlorobutadiene	22.4	1.0	ug/l	25.0		90	70-130	2	20	
2-Hexanone	23.2	2.5	ug/l	25.0		93	44-150	6	31	
Iodomethane	24.8	2.5	ug/l	25.0		99	58-138	43	25	*R1*
Isopropylbenzene	23.3	0.50	ug/l	25.0		93	70-130	2	20	
p-Isopropyltoluene	21.9	0.50	ug/l	25.0		88	70-130	0.05	20	
Methylene Chloride	19.9	1.0	ug/l	25.0		80	70-130	22	20	*R6*
4-Methyl-2-pentanone (MIBK)	23.4	2.5	ug/l	25.0		94	61-142	0.4	22	
Methyl-tert-butyl Ether (MTBE)	20.1	0.50	ug/l	25.0		80	70-130	0.3	20	
Naphthalene	24.0	2.5	ug/l	25.0		96	65-129	0.1	20	
n-Propylbenzene	21.8	0.50	ug/l	25.0		87	70-130	0.2	20	
Styrene	21.4	0.50	ug/l	25.0		86	70-130	0.9	20	
1,1,1,2-Tetrachloroethane	20.5	0.50	ug/l	25.0		82	70-130	2	20	
1,1,2,2-Tetrachloroethane	21.9	0.50	ug/l	25.0		88	70-130	2	20	
Tetrachloroethene	20.3	0.50	ug/l	25.0		81	70-130	2	20	
Toluene	20.1	0.50	ug/l	25.0		80	70-130	0.8	20	
1,2,3-Trichlorobenzene	23.3	1.0	ug/l	25.0		93	70-130	2	20	
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0		97	70-130	2	20	
1,1,1-Trichloroethane	20.7	0.50	ug/l	25.0		83	70-130	1	20	
1,1,2-Trichloroethane	20.6	0.50	ug/l	25.0		82	70-130	3	20	
Trichloroethene	20.2	0.50	ug/l	25.0		81	70-130	3	20	
Trichlorofluoromethane	22.6	0.50	ug/l	25.0		90	78-149	5	20	
1,2,3-Trichloropropane	22.6	1.0	ug/l	25.0		90	70-130	4	20	
1,2,4-Trimethylbenzene	21.7	0.50	ug/l	25.0		87	70-130	1	20	
1,3,5-Trimethylbenzene	21.5	0.50	ug/l	25.0		86	70-130	0.3	20	
Vinyl Acetate	26.1	1.0	ug/l	25.0		104	57-149	1	21	
Vinyl chloride	19.3	0.50	ug/l	25.0		77	66-134	9	20	
Xylenes, Total	39.6	1.0	ug/l	50.0		79	70-130	3	20	
Freon 113	19.3	2.0	ug/l	25.0		77	63-136	24	20	*R6*
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*70-130*			
Surrogate: Toluene-d8	*22.4*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.2*		*ug/l*	*25.0*		*89*	*70-130*			

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Project Manager

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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009

Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Analyzed: 03/22/2011 (11C0791-MS1)					**Source: PUC0982-02**					
Acetone	27.2	10	ug/l	25.0	ND	109	10-150			*VI*
Benzene	19.8	0.50	ug/l	25.0	ND	79	70-130			
Bromobenzene	22.0	0.50	ug/l	25.0	ND	88	70-130			
Bromochloromethane	20.5	0.50	ug/l	25.0	ND	82	70-130			
Bromodichloromethane	20.6	0.50	ug/l	25.0	ND	83	70-130			
Bromoform	22.7	1.0	ug/l	25.0	ND	91	62-126			
Bromomethane	18.1	1.0	ug/l	25.0	ND	72	55-136			
2-Butanone (MEK)	23.7	2.5	ug/l	25.0	ND	95	22-150			
n-Butylbenzene	22.2	0.50	ug/l	25.0	ND	89	70-130			
sec-Butylbenzene	21.2	0.50	ug/l	25.0	ND	85	70-130			
tert-Butylbenzene	21.5	0.50	ug/l	25.0	ND	86	70-130			
Carbon disulfide	23.5	0.50	ug/l	25.0	ND	94	56-132			
Carbon tetrachloride	21.5	0.50	ug/l	25.0	ND	86	76-131			
Chlorobenzene	20.6	0.50	ug/l	25.0	ND	82	70-130			
Chloroethane	20.1	1.0	ug/l	25.0	ND	80	67-134			
Chloroform	21.4	0.50	ug/l	25.0	1.44	80	70-130			
Chloromethane	17.4	1.0	ug/l	25.0	ND	70	50-135			
2-Chlorotoluene	20.7	0.50	ug/l	25.0	ND	83	70-130			
4-Chlorotoluene	21.9	0.50	ug/l	25.0	ND	88	70-130			
Dibromochloromethane	21.7	0.50	ug/l	25.0	ND	87	70-130			
1,2-Dibromo-3-chloropropane	21.6	2.5	ug/l	25.0	ND	86	60-135			
1,2-Dibromoethane (EDB)	21.1	0.50	ug/l	25.0	ND	84	70-130			
Dibromomethane	21.5	0.50	ug/l	25.0	ND	86	70-130			
1,2-Dichlorobenzene	21.6	0.50	ug/l	25.0	ND	86	70-130			
1,3-Dichlorobenzene	21.3	0.50	ug/l	25.0	ND	85	70-130			
1,4-Dichlorobenzene	21.8	0.50	ug/l	25.0	ND	87	70-130			
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	36-150			
1,1-Dichloroethane	21.6	0.50	ug/l	25.0	1.90	79	70-130			
1,2-Dichloroethane	20.4	0.50	ug/l	25.0	ND	81	68-143			
1,1-Dichloroethene	22.4	0.50	ug/l	25.0	2.71	79	70-130			
cis-1,2-Dichloroethene	21.4	0.50	ug/l	25.0	1.96	78	70-130			
trans-1,2-Dichloroethene	20.2	0.50	ug/l	25.0	ND	81	70-130			
1,2-Dichloropropane	21.2	0.50	ug/l	25.0	ND	85	70-130			
1,3-Dichloropropane	20.6	0.50	ug/l	25.0	ND	83	70-130			
2,2-Dichloropropane	19.9	1.0	ug/l	25.0	ND	79	66-130			

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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Analyzed: 03/22/2011 (11C0791-MS1)					**Source: PUC0982-02**					
1,1-Dichloropropene	21.2	0.50	ug/l	25.0	ND	85	70-130			
cis-1,3-Dichloropropene	20.9	0.50	ug/l	25.0	ND	83	70-130			
trans-1,3-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	71-132			
Ethylbenzene	20.6	0.50	ug/l	25.0	ND	83	70-130			
Hexachlorobutadiene	23.0	1.0	ug/l	25.0	ND	92	66-129			
2-Hexanone	24.2	2.5	ug/l	25.0	ND	97	18-150			
Iodomethane	24.2	2.5	ug/l	25.0	ND	97	47-141			
Isopropylbenzene	23.2	0.50	ug/l	25.0	ND	93	78-137			
p-Isopropyltoluene	22.2	0.50	ug/l	25.0	ND	89	70-130			
Methylene Chloride	19.8	1.0	ug/l	25.0	ND	79	74-132			
4-Methyl-2-pentanone (MIBK)	23.1	2.5	ug/l	25.0	ND	92	56-145			
Methyl-tert-butyl Ether (MTBE)	19.9	0.50	ug/l	25.0	0.140	79	67-138			
Naphthalene	22.8	2.5	ug/l	25.0	ND	91	54-135			
n-Propylbenzene	22.0	0.50	ug/l	25.0	ND	88	70-130			
Styrene	19.9	0.50	ug/l	25.0	ND	80	51-123			
1,1,1,2-Tetrachloroethane	20.9	0.50	ug/l	25.0	ND	84	70-130			
1,1,2,2-Tetrachloroethane	22.1	0.50	ug/l	25.0	ND	88	69-133			
Tetrachloroethene	21.2	0.50	ug/l	25.0	0.430	83	70-130			
Toluene	20.1	0.50	ug/l	25.0	ND	80	70-130			
1,2,3-Trichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	70-130			
1,2,4-Trichlorobenzene	23.4	1.0	ug/l	25.0	ND	94	66-126			
1,1,1-Trichloroethane	20.7	0.50	ug/l	25.0	ND	83	76-132			
1,1,2-Trichloroethane	21.2	0.50	ug/l	25.0	ND	85	70-130			
Trichloroethene	28.0	0.50	ug/l	25.0	7.93	80	70-130			
Trichlorofluoromethane	23.9	0.50	ug/l	25.0	0.130	95	74-150			
1,2,3-Trichloropropane	22.1	1.0	ug/l	25.0	ND	88	70-130			
1,2,4-Trimethylbenzene	21.7	0.50	ug/l	25.0	ND	87	70-130			
1,3,5-Trimethylbenzene	21.8	0.50	ug/l	25.0	ND	87	61-138			
Vinyl Acetate	24.4	1.0	ug/l	25.0	ND	98	50-150			
Vinyl chloride	19.0	0.50	ug/l	25.0	ND	76	58-139			
Xylenes, Total	40.7	1.0	ug/l	50.0	ND	81	70-130			
Freon 113	19.4	2.0	ug/l	25.0	ND	78	56-148			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*70-130*			
Surrogate: Toluene-d8	*22.9*		*ug/l*	*25.0*		*92*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*22.8*		*ug/l*	*25.0*		*91*	*70-130*			

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Project Manager

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Environmental Resources Management Inc.-West
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Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Dup Analyzed: 03/22/2011 (11C0791-MSD1)					**Source: PUC0982-02**					
Acetone	25.0	10	ug/l	25.0	ND	100	10-150	8	35	*V1*
Benzene	19.9	0.50	ug/l	25.0	ND	80	70-130	0.4	20	
Bromobenzene	22.0	0.50	ug/l	25.0	ND	88	70-130	0.05	20	
Bromochloromethane	20.9	0.50	ug/l	25.0	ND	83	70-130	2	20	
Bromodichloromethane	20.8	0.50	ug/l	25.0	ND	83	70-130	0.8	20	
Bromoform	22.4	1.0	ug/l	25.0	ND	89	62-126	2	20	
Bromomethane	18.4	1.0	ug/l	25.0	ND	73	55-136	1	24	
2-Butanone (MEK)	23.1	2.5	ug/l	25.0	ND	92	22-150	2	31	
n-Butylbenzene	21.9	0.50	ug/l	25.0	ND	88	70-130	1	20	
sec-Butylbenzene	21.1	0.50	ug/l	25.0	ND	84	70-130	0.6	20	
tert-Butylbenzene	21.0	0.50	ug/l	25.0	ND	84	70-130	2	20	
Carbon disulfide	23.0	0.50	ug/l	25.0	ND	92	56-132	2	20	
Carbon tetrachloride	21.0	0.50	ug/l	25.0	ND	84	76-131	2	20	
Chlorobenzene	20.4	0.50	ug/l	25.0	ND	82	70-130	0.9	20	
Chloroethane	19.9	1.0	ug/l	25.0	ND	80	67-134	0.7	20	
Chloroform	21.4	0.50	ug/l	25.0	1.44	80	70-130	0.05	20	
Chloromethane	18.1	1.0	ug/l	25.0	ND	72	50-135	4	20	
2-Chlorotoluene	20.6	0.50	ug/l	25.0	ND	83	70-130	0.3	20	
4-Chlorotoluene	21.6	0.50	ug/l	25.0	ND	86	70-130	1	20	
Dibromochloromethane	21.7	0.50	ug/l	25.0	ND	87	70-130	0.09	20	
1,2-Dibromo-3-chloropropane	22.9	2.5	ug/l	25.0	ND	91	60-135	6	29	
1,2-Dibromoethane (EDB)	22.0	0.50	ug/l	25.0	ND	88	70-130	4	20	
Dibromomethane	21.4	0.50	ug/l	25.0	ND	86	70-130	0.5	20	
1,2-Dichlorobenzene	21.4	0.50	ug/l	25.0	ND	85	70-130	1	20	
1,3-Dichlorobenzene	20.9	0.50	ug/l	25.0	ND	84	70-130	2	20	
1,4-Dichlorobenzene	21.2	0.50	ug/l	25.0	ND	85	70-130	3	20	
Dichlorodifluoromethane	19.0	0.50	ug/l	25.0	ND	76	36-150	0.05	22	
1,1-Dichloroethane	21.7	0.50	ug/l	25.0	1.90	79	70-130	0.6	20	
1,2-Dichloroethane	20.3	0.50	ug/l	25.0	ND	81	68-143	0.2	20	
1,1-Dichloroethene	22.3	0.50	ug/l	25.0	2.71	78	70-130	0.7	20	
cis-1,2-Dichloroethene	21.1	0.50	ug/l	25.0	1.96	77	70-130	1	20	
trans-1,2-Dichloroethene	20.3	0.50	ug/l	25.0	ND	81	70-130	0.2	20	
1,2-Dichloropropane	20.8	0.50	ug/l	25.0	ND	83	70-130	2	20	
1,3-Dichloropropane	21.1	0.50	ug/l	25.0	ND	84	70-130	2	20	
2,2-Dichloropropane	19.5	1.0	ug/l	25.0	ND	78	66-130	2	20	

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Project Manager

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Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009

Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0791 Extracted: 03/22/11										
Matrix Spike Dup Analyzed: 03/22/2011 (11C0791-MSD1)					**Source: PUC0982-02**					
1,1-Dichloropropene	20.6	0.50	ug/l	25.0	ND	82	70-130	3	20	
cis-1,3-Dichloropropene	20.6	0.50	ug/l	25.0	ND	82	70-130	1	20	
trans-1,3-Dichloropropene	21.8	0.50	ug/l	25.0	ND	87	71-132	0.2	20	
Ethylbenzene	20.5	0.50	ug/l	25.0	ND	82	70-130	0.7	20	
Hexachlorobutadiene	21.9	1.0	ug/l	25.0	ND	88	66-129	5	21	
2-Hexanone	25.1	2.5	ug/l	25.0	ND	100	18-150	3	25	
Iodomethane	24.5	2.5	ug/l	25.0	ND	98	47-141	0.9	29	
Isopropylbenzene	23.1	0.50	ug/l	25.0	ND	92	78-137	0.3	20	
p-Isopropyltoluene	21.8	0.50	ug/l	25.0	ND	87	70-130	2	20	
Methylene Chloride	20.2	1.0	ug/l	25.0	ND	81	74-132	1	20	
4-Methyl-2-pentanone (MIBK)	22.9	2.5	ug/l	25.0	ND	92	56-145	0.9	26	
Methyl-tert-butyl Ether (MTBE)	20.3	0.50	ug/l	25.0	0.140	81	67-138	2	21	
Naphthalene	24.5	2.5	ug/l	25.0	ND	98	54-135	7	33	
n-Propylbenzene	21.9	0.50	ug/l	25.0	ND	88	70-130	0.3	20	
Styrene	19.7	0.50	ug/l	25.0	ND	79	51-123	1	21	
1,1,1,2-Tetrachloroethane	20.5	0.50	ug/l	25.0	ND	82	70-130	2	20	
1,1,2,2-Tetrachloroethane	22.5	0.50	ug/l	25.0	ND	90	69-133	2	20	
Tetrachloroethene	21.1	0.50	ug/l	25.0	0.430	83	70-130	0.5	20	
Toluene	20.1	0.50	ug/l	25.0	ND	81	70-130	0.3	20	
1,2,3-Trichlorobenzene	24.0	1.0	ug/l	25.0	ND	96	70-130	2	20	
1,2,4-Trichlorobenzene	24.2	1.0	ug/l	25.0	ND	97	66-126	3	20	
1,1,1-Trichloroethane	20.4	0.50	ug/l	25.0	ND	82	76-132	1	20	
1,1,2-Trichloroethane	21.3	0.50	ug/l	25.0	ND	85	70-130	0.3	20	
Trichloroethene	28.2	0.50	ug/l	25.0	7.93	81	70-130	0.4	20	
Trichlorofluoromethane	23.6	0.50	ug/l	25.0	0.130	94	74-150	1	20	
1,2,3-Trichloropropane	22.5	1.0	ug/l	25.0	ND	90	70-130	2	20	
1,2,4-Trimethylbenzene	21.5	0.50	ug/l	25.0	ND	86	70-130	0.7	20	
1,3,5-Trimethylbenzene	21.2	0.50	ug/l	25.0	ND	85	61-138	3	33	
Vinyl Acetate	24.1	1.0	ug/l	25.0	ND	96	50-150	1	23	
Vinyl chloride	19.2	0.50	ug/l	25.0	ND	77	58-139	1	21	
Xylenes, Total	40.4	1.0	ug/l	50.0	ND	81	70-130	0.9	20	
Freon 113	19.2	2.0	ug/l	25.0	ND	77	56-148	1	22	
Surrogate: Dibromofluoromethane	*23.0*		*ug/l*	*25.0*		*92*	*70-130*			
Surrogate: Toluene-d8	*22.4*		*ug/l*	*25.0*		*90*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.0*		*ug/l*	*25.0*		*92*	*70-130*			

TestAmerica Phoenix

Kylie Emily
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Environmental Resources Management Inc.-West
7272 E. Indian School Rd. Ste 100
Scottsdale, AZ 85251
Attention: Jason Hilker

Project ID: 0096498.009
Report Number: PUC1113

Sampled: 03/16/11
Received: 03/16/11

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11C0675 Extracted: 03/17/11										
Blank Analyzed: 03/18/2011 (11C0675-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	*14.8*		*ug/l*	*20.0*		*74*	*20-105*			
Surrogate: Nitrobenzene-d5	*16.2*		*ug/l*	*20.0*		*81*	*30-130*			
LCS Analyzed: 03/18/2011 (11C0675-BS1)										**Q8**
1,4-Dioxane	20.6	1.0	ug/l	20.0		103	85-115			
Surrogate: 1,4-Dioxane-d8	*17.5*		*ug/l*	*20.0*		*88*	*30-105*			
Surrogate: Nitrobenzene-d5	*19.6*		*ug/l*	*20.0*		*98*	*35-140*			
LCS Dup Analyzed: 03/18/2011 (11C0675-BSD1)										**Q8**
1,4-Dioxane	20.6	1.0	ug/l	20.0		103	85-115	0	20	
Surrogate: 1,4-Dioxane-d8	*14.1*		*ug/l*	*20.0*		*71*	*30-105*			
Surrogate: Nitrobenzene-d5	*16.9*		*ug/l*	*20.0*		*85*	*35-140*			

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DATA QUALIFIERS AND DEFINITIONS

L3	The associated blank spike recovery was above method acceptance limits.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
R1	The RPD/RSD exceeded the method acceptance limit.
R6	LFB/LFBD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 8260B	Water	X	X
SW8270C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Kylie Emily
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD: 8260B

DATE: 03/17/2011

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Volatiles	Method: 8260B	Instrument #: GCMS 7
Analyst: LC	Analysis Date: 03/17/11	

Method name saved in the file:

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9), 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? (Y) N
   If yes, what points were removed or replaced: (lowest) middle (highest)
   List of the analytes: Acetone, Methylene chloride, MEK, 2-CEVE, MIBK, 2-Hexanone, 1,2-Dibromo-3-chloropropane, Naphthalene
   Why? LRL, Curve Fit
5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☑ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☑ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst: [signature]	Date: 03/18/11
	Reviewer: [signature]	Date: 3/11/11

Attachment 2
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-011 R.0
VOCs in Vapor [Method No. 8260B AZ Method]

Analysis Date: 03/17/11 | Analyst: LC

Description	Yes	No	NA[1]
1. BFB (50 ng or less): Verify meets criteria very 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.M	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:	✓		
- Second source within historical limits	✓	✓	(1)
- Tertiary source within 50 – 150% recovery	✓		
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must met Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓		
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)			N/A
- Must be analyzed per 20 samples/per matrix/per batch			
- LCS/LSCD recoveries within historical limits			
- RPD ≤ 25%			
- Surrogates within historical limits			
6. Samples			
- Analyzed within 72 hours of sampling			
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL			
- Surrogate recoveries within historical limits			
- Sample Duplicate performed every 10 samples			

Comments:
(1) Bromomethane – NI – See CAR

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:		
	Analyst: [signature]	Date: 03/18/11
	Reviewer: [signature]	Date: 3/18/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

Instrument ID	GCMS 7
Date:	03/17/11
Analyst	LC
Method(s)	8260B
50 ppm Cal. Std.	PU01525
2.5 ppm Cal. Std.	PU01528
500 / 250 ppm EtOH/TBA Cal. Std.	N/A
50 / 25 ppm EtOH/TBA Cal. Std.	N/A
50 ppm SS Std.	PU01537
500 / 250 ppm EtOH/TBA SS Std.	N/A

3° Gas: PT06459

This table outlines the initial calibration preparation for GCMS 7, GCMS 4 and GCMS 2.

	FINAL CONCENTRATIONS (ppb)				SPIKE AMOUNTS (µL) in 10 mL final volume			
Calibration Number	ISTD / TBA-d9	VOC	Ethanol	TBA	50ppm Ethanol / 25ppm TBA	2.5ppm VOC Cal. Std.	500ppm Ethanol / 250ppm TBA	50ppm VOC Cal. Std.
1	25/200	0.5	5	2.5	1	2		
2	25/200	1.0	10	5	2	4		
3	25/200	2.0	20	10	4	8		
4	25/200	5.0	50	25			1	1
5	25/200	10	100	50			2	2
6*	***25/200***	***25***	***250***	***125***			***5***	***5***
7	25/200	50	750	375			10	10
8	25/200	100	1000	500			20	20
9	25/200	200	2000	1000			40	40

****SS/ICVs are at the same level as Calibration point #6 and prepared the same way.***

Reviewed By: [signature] Date: 3/18/11

LC 03/18/11

Response Factor Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

Calibration File
0.5 =03171106.D 1.0 =03171107.D 2.0 =03171108.D 5.0 =03171109.D
25.0 =03171111.D 50.0 =03171112.D 100. =03171113.D 200. =03171114.D =

	Compound	0.5	1.0	2.0	5.0	10.0	25.0	50.0	100.	200.	Avg	%RSD	
	ISTD												
I	Pentafluorobenzene	1.278	1.131	1.176	1.343	1.199	1.217	1.132	1.112	1.041	1.181	7.72	
T	Dichlorodifluoromethane	1.965	1.722	1.705	2.115	2.031	1.963	1.991	2.043	2.039	1.953	7.34	
TMP	Chloromethane	1.791	1.789	1.668	1.817	1.677	1.725	1.728	1.753	1.700	1.739	3.03	
TMC	Vinyl chloride	0.920	0.793	0.521	0.711	0.801	0.859	0.858	0.916	0.940	0.813	16.17	Linear r^2= 0.997
TM	Bromomethane	1.005	1.039	0.879	0.958	0.956	0.913	0.871	0.834	0.839	0.922	7.88	
TM	Chloroethane	1.302	1.243	1.207	1.370	1.280	1.303	0.986	0.997	1.191	1.209	11.13	
TM	Trichlorofluoromethane			0.374	0.261	0.172	0.158	0.128	0.120	0.141	0.194	47.71	Linear r^2= 0.991
T	Acetone	0.379	0.589	0.400	0.584	0.546	0.597	0.565	0.561	0.556	0.531	15.44	Linear r^2= 0.999
T	Iodomethane	0.860	0.836	0.621	0.721	0.703	0.678	0.638	0.643	0.644	0.705	12.41	
TMC	1,1-Dichloroethene		1.032	0.802	0.901	0.831	0.804	0.764	0.757	0.744	0.830	11.53	
TM	Methylene chloride	1.047	0.958	0.765	0.861	0.786	0.813	0.761	0.768	0.755	0.835	12.34	
	Freon 113	2.991	2.718	2.262	2.705	2.441	2.445	2.339	2.359	2.318	2.509	9.68	
T	Carbon disulfide	0.822	0.931	0.715	0.835	0.766	0.772	0.720	0.735	0.725	0.780	9.14	
TM	trans-1,2-Dichloroethene	1.501	1.617	1.243	1.449	1.271	1.308	1.179	1.227	1.204	1.333	11.45	
T	MTBE	1.773	1.868	1.535	1.752	1.632	1.610	1.498	1.506	1.474	1.628	8.66	
TMP	1,1-Dichloroethane	1.436	1.510	1.090	1.380	1.226	1.231	1.161	1.181	1.162	1.264	11.34	
T	Vinyl acetate			0.013	0.037	0.040	0.042	0.040	0.040	0.040	0.036#	27.95	Linear r^2= 0.999
T	2-Butanone (MEK)	0.915	0.789	0.816	0.898	0.803	0.800	0.745	0.754	0.751	0.808	7.61	
T	cis-1,2-Dichloroethene	0.338	0.306	0.271	0.338	0.314	0.289	0.279	0.273	0.253	0.296	10.21	
T	Bromochloromethane	1.474	1.291	1.359	1.505	1.426	1.329	1.229	1.253	1.222	1.343	7.86	
TMC	Chloroform	1.151	1.062	1.049	1.207	1.108	1.096	1.056	1.056	1.014	1.089	5.45	
T	2,2-Dichloropropane	0.743	0.594	0.581	0.695	0.640	0.629	0.585	0.607	0.588	0.629	8.90	
S	Dibromofluoromethane	0.873	0.905	0.802	0.893	0.804	0.830	0.757	0.772	0.740	0.820	7.31	
TM	1,2-Dichloroethane	0.981	0.938	0.900	1.069	0.997	0.987	0.937	0.942	0.927	0.964	5.23	
TM	1,1,1-Trichloroethane												
	ISTD												
I	1,4-Difluorobenzene	0.676	0.609	0.621	0.674	0.653	0.658	0.630	0.618	0.620	0.640	4.00	
T	1,1-Dichloropropene	0.426	0.417	0.414	0.477	0.459	0.458	0.442	0.442	0.440	0.442	4.67	
TM	Carbon tetrachloride	1.854	1.747	1.665	1.787	1.702	1.685	1.664	1.658	1.636	1.711	4.18	
TM	Benzene	0.220	0.217	0.194	0.215	0.208	0.199	0.193	0.191	0.186	0.202	6.23	
T	Dibromomethane	0.525	0.461	0.462	0.521	0.468	0.481	0.465	0.464	0.454	0.478	5.57	
TMC	1,2-Dichloropropane	0.455	0.415	0.412	0.467	0.422	0.428	0.421	0.419	0.412	0.428	4.61	
TM	Trichloroethene	0.507	0.483	0.464	0.551	0.511	0.518	0.496	0.501	0.491	0.502	4.85	
TM	Bromodichloromethane			0.111	0.123	0.108	0.100	0.086	0.080		0.101	15.92	Linear r^2=0.990
T	2-Chlorovinylethylether	0.588	0.595	0.568	0.665	0.626	0.630	0.602	0.611	0.602	0.610	4.62	
TM	cis-1,3-Dichloropropene												

M 1/1/11

LC 03/18/11

	4-Methyl-2-pentanone (MIBK)	0.296	0.223	0.257	0.245	0.246	0.237	0.250	0.244		0.250	8.48
TM	trans-1,3-Dichloropropene	0.429	0.486	0.437	0.505	0.482	0.485	0.478	0.470	0.463	0.471	5.22
TM	1,1,2-Trichloroethane	0.230	0.224	0.221	0.244	0.234	0.228	0.218	0.221	0.216	0.226	3.97
S	Toluene-d8	1.506	1.274	1.214	1.274	1.213	1.236	1.199	1.217	1.214	1.261	7.60
TMC	Toluene	1.070	0.895	0.962	1.017	0.968	0.969	0.963	0.955	0.954	0.973	4.92
	ISTD											
I	Chlorobenzene-d5	0.535	0.569	0.533	0.642	0.578	0.578	0.552	0.560	0.543	0.566	5.90
T	1,3-Dichloropropane			0.153	0.215	0.180	0.183	0.192	0.202	0.194	0.189	10.33
T	2-Hexanone	0.421	0.294	0.319	0.347	0.331	0.338	0.336	0.340	0.336	0.340	10.04
TM	Dibromochloromethane	0.265	0.251	0.278	0.321	0.291	0.290	0.283	0.293	0.282	0.284	6.84
T	1,2-Dibromoethane	0.491	0.416	0.421	0.457	0.454	0.451	0.444	0.454	0.448	0.448	4.86
TM	Tetrachloroethene	0.419	0.370	0.348	0.372	0.362	0.362	0.359	0.370	0.370	0.370	5.34
T	1,1,1,2-Tetrachloroethane	1.278	1.127	1.115	1.215	1.160	1.173	1.147	1.185	1.173	1.175	4.18
TMP	Chlorobenzene	2.432	2.116	2.077	2.272	2.199	2.221	2.180	2.235	2.188	2.214	4.57
TMC	Ethylbenzene	0.914	0.710	0.745	0.803	0.758	0.769	0.749	0.770	0.760	0.775	7.43
T	m,p-Xylenes	1.044	1.064	1.123	1.265	1.177	1.217	1.199	1.239	1.255	1.176	6.94
T	Styrene	0.865	0.741	0.720	0.770	0.734	0.734	0.728	0.747	0.744	0.754	5.84
T	o-Xylene	0.666	0.563	0.532	0.559	0.520	0.531	0.517	0.534	0.509	0.548	8.71
S	4-Bromofluorobenzene											
	ISTD											
	1,4-Dichlorobenzene-d4	0.346	0.342	0.330	0.398	0.372	0.377	0.377	0.381	0.334	0.362	6.65
TMP	Bromoform	0.776	0.777	0.741	0.769	0.759	0.732	0.718	0.714	0.603	0.732	7.38
TMP	1,1,2,2-Tetrachloroethane	0.119	0.178	0.161	0.182	0.165	0.168	0.160	0.158	0.143	0.159	11.89
T	1,2,3-Trichloropropane	4.005	3.607	3.797	3.945	4.018	3.966	3.899	3.859	3.357	3.828	5.68
T	Isopropylbenzene	0.821	0.849	0.879	0.932	0.930	0.936	0.909	0.898	0.795	0.883	5.79
T	Bromobenzene	5.622	5.275	5.271	5.811	5.709	5.635	5.518	5.473	4.873	5.465	5.26
T	n-Propylbenzene	3.635	3.131	3.065	3.274	3.275	3.246	3.176	3.139	2.874	3.202	6.40
T	2-Chlorotoluene	3.455	2.901	3.111	3.329	3.224	3.287	3.194	3.123	2.942	3.174	5.61
T	4-Chlorotoluene	3.482	3.055	3.159	3.421	3.445	3.402	3.291	3.314	3.201	3.308	4.40
T	1,3,5-Trimethylbenzene	2.867	2.682	2.696	2.874	2.922	2.887	2.853	2.812	2.753	2.816	3.07
T	tert-Butylbenzene	3.429	3.228	3.251	3.411	3.407	3.411	3.331	3.302	3.155	3.325	2.94
T	1,2,4-Trimethylbenzene	4.909	4.685	4.781	4.988	4.889	4.960	4.835	4.770	4.628	4.827	2.53
T	sec-Butylbenzene	1.922	1.696	1.781	1.842	1.831	1.832	1.788	1.772	1.732	1.800	3.69
TM	1,3-Dichlorobenzene	2.018	1.817	1.769	1.830	1.781	1.799	1.774	1.772	1.748	1.812	4.50
TM	1,4-Dichlorobenzene	3.621	3.386	3.554	3.772	3.840	3.866	3.737	3.736	3.694	3.690	4.07
T	p-Isopropyltoluene	1.676	1.479	1.524	1.652	1.572	1.593	1.551	1.529	1.511	1.565	4.17
TM	1,2-Dichlorobenzene	4.083	3.836	3.893	4.307	4.176	4.341	4.160	4.146	4.018	4.107	4.15
T	n-Butylbenzene		0.086	0.108	0.092	0.106	0.101	0.097	0.096	0.094	0.098#	7.23
T	1,2-Dibromo-3-chloropropane	0.920	1.036	0.925	1.051	0.955	1.090	1.036	1.068	1.017	1.011	6.18
T	1,2,4-Trichlorobenzene		1.322	1.200	1.403	1.267	1.459	1.356	1.419	1.298	1.341	6.41
T	Naphthalene	0.624	0.630	0.633	0.635	0.661	0.684	0.649	0.662	0.632	0.646	3.07
T	Hexachlorobutadiene	0.835	0.763	0.778	0.889	0.792	0.905	0.830	0.863	0.763	0.824	6.51
T	1,2,3-Trichlorobenzene											

(#) = Out of Range

031711.M Thu Mar 17 14:51:40 2011

M

LC

Calibration Status Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.5	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D
2	1.0	1	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
3	2.0	2	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
4	5.0	5	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
5	10.0	10	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
6	25.0	25	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
7	50.0	50	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
8	100.	100	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
9	200.	200	25	C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.5	Mar 17 14:03 2011	Mar 17 13:56 2011	17 Mar 2011 9:12 am
2	1.0	Mar 17 14:03 2011	Mar 17 13:57 2011	17 Mar 2011 9:43 am
3	2.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:14 am
4	5.0	Mar 17 14:03 2011	Mar 17 13:59 2011	17 Mar 2011 10:45 am
5	10.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:15 am
6	25.0	Mar 17 14:04 2011	Mar 17 14:00 2011	17 Mar 2011 11:46 am
7	50.0	Mar 17 14:04 2011	Mar 17 14:01 2011	17 Mar 2011 12:17 pm
8	100.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 12:48 pm
9	200.	Mar 17 14:04 2011	Mar 17 14:02 2011	17 Mar 2011 1:19 pm

031711.M Thu Mar 17 14:51:31 2011

LC 03/18/11

Compound List Report GCMS7

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Pentafluorobenzene	168	10.60	1.000	A	0	A	L
2	T	Dichlorodifluoromethane	85	4.60	0.434	A	2	A	B
3	T	Chloromethane	50	4.89	0.461	A	1	A	B
4	T	Vinyl chloride	62	5.18	0.489	A	1	A	B
5	T	Bromomethane	94	5.78	0.545	L	1	A	B
6	T	Chloroethane	64	5.98	0.564	A	1	A	B
7	T	Trichlorofluoromethane	101	6.78	0.639	A	1	A	L
8	T	Acetone	43	6.94	0.654	L	1	A	L
9	T	Iodomethane	142	7.57	0.714	L	1	A	B
10	T	1,1-Dichloroethene	96	7.51	0.708	A	2	A	B
11	T	Methylene chloride	84	7.71	0.727	A	2	A	B
12		Freon 113	101	7.77	0.733	A	2	A	B
13	T	Carbon disulfide	76	8.03	0.757	A	0	A	B
14	T	trans-1,2-Dichloroethene	96	8.59	0.810	A	2	A	B
15	T	MTBE	73	8.74	0.824	A	1	A	B
16	T	1,1-Dichloroethane	63	8.92	0.841	A	2	A	B
17	T	Vinyl acetate	43	9.08	0.857	A	1	A	L
18	T	2-Butanone (MEK)	72	9.47	0.893	L	1	A	B
19	T	cis-1,2-Dichloroethene	96	9.66	0.911	A	2	A	B
20	T	Bromochloromethane	128	9.87	0.931	A	2	A	B
21	T	Chloroform	83	9.93	0.936	A	1	A	B
22	T	2,2-Dichloropropane	77	10.04	0.947	A	1	A	B
23	S	Dibromofluoromethane	113	10.09	0.951	A	0	A	B
24	T	1,2-Dichloroethane	62	10.78	1.017	A	1	A	B
25	T	1,1,1-Trichloroethane	97	10.91	1.029	A	2	A	B
26	I	1,4-Difluorobenzene	114	11.73	1.000	A	1	A	B
27	T	1,1-Dichloropropene	75	11.15	0.950	A	2	A	B
28	T	Carbon tetrachloride	117	11.39	0.971	A	1	A	B
29	T	Benzene	78	11.44	0.976	A	1	A	B
30	T	Dibromomethane	93	12.17	1.037	A	2	A	B
31	T	1,2-Dichloropropane	63	12.21	1.041	A	1	A	B
32	T	Trichloroethene	95	12.27	1.046	A	2	A	B
33	T	Bromodichloromethane	83	12.33	1.051	A	2	A	B
34	T	2-Chlorovinylethylether	63	12.86	1.097	L	1	A	B
35	T	cis-1,3-Dichloropropene	75	13.16	1.122	A	1	A	B
36		4-Methyl-2-pentanone (MIBK)	43	13.31	1.135	A	2	A	B
37	T	trans-1,3-Dichloropropene	75	13.73	1.171	A	1	A	B
38	T	1,1,2-Trichloroethane	83	13.95	1.189	A	2	A	B
39	S	Toluene-d8	98	14.12	1.204	A	0	A	B
40	T	Toluene	92	14.21	1.212	A	1	A	B
41	I	Chlorobenzene-d5	117	16.07	1.000	A	0	A	B
42	T	1,3-Dichloropropane	76	14.27	0.888	A	1	A	B
43	T	2-Hexanone	43	14.47	0.900	A	2	A	B
44	T	Dibromochloromethane	129	14.64	0.911	A	1	A	B
45	T	1,2-Dibromoethane	107	14.98	0.932	A	2	A	B
46	T	Tetrachloroethene	166	15.21	0.946	A	2	A	B
47	T	1,1,1,2-Tetrachloroethane	131	16.01	0.996	A	2	A	B
48	T	Chlorobenzene	112	16.12	1.003	A	2	A	B
49	T	Ethylbenzene	91	16.37	1.019	A	1	A	B
50	T	m,p-Xylenes	106	16.64	1.035	A	1	A	B
51	T	Styrene	104	17.09	1.064	A	1	A	B
52	T	o-Xylene	106	17.19	1.070	A	1	A	B
53	S	4-Bromofluorobenzene	95	17.75	1.105	A	2	A	B
54		1,4-Dichlorobenzene-d4	152	19.53	1.000	A	2	A	B
55	T	Bromoform	173	16.81	0.861	A	1	A	B
56	T	1,1,2,2-Tetrachloroethane	83	17.18	0.879	A	2	A	B
57	T	1,2,3-Trichloropropane	110	17.38	0.890	A	1	A	B
58	T	Isopropylbenzene	105	17.69	0.906	A	1	A	B
59	T	Bromobenzene	156	18.05	0.924	A	2	A	B

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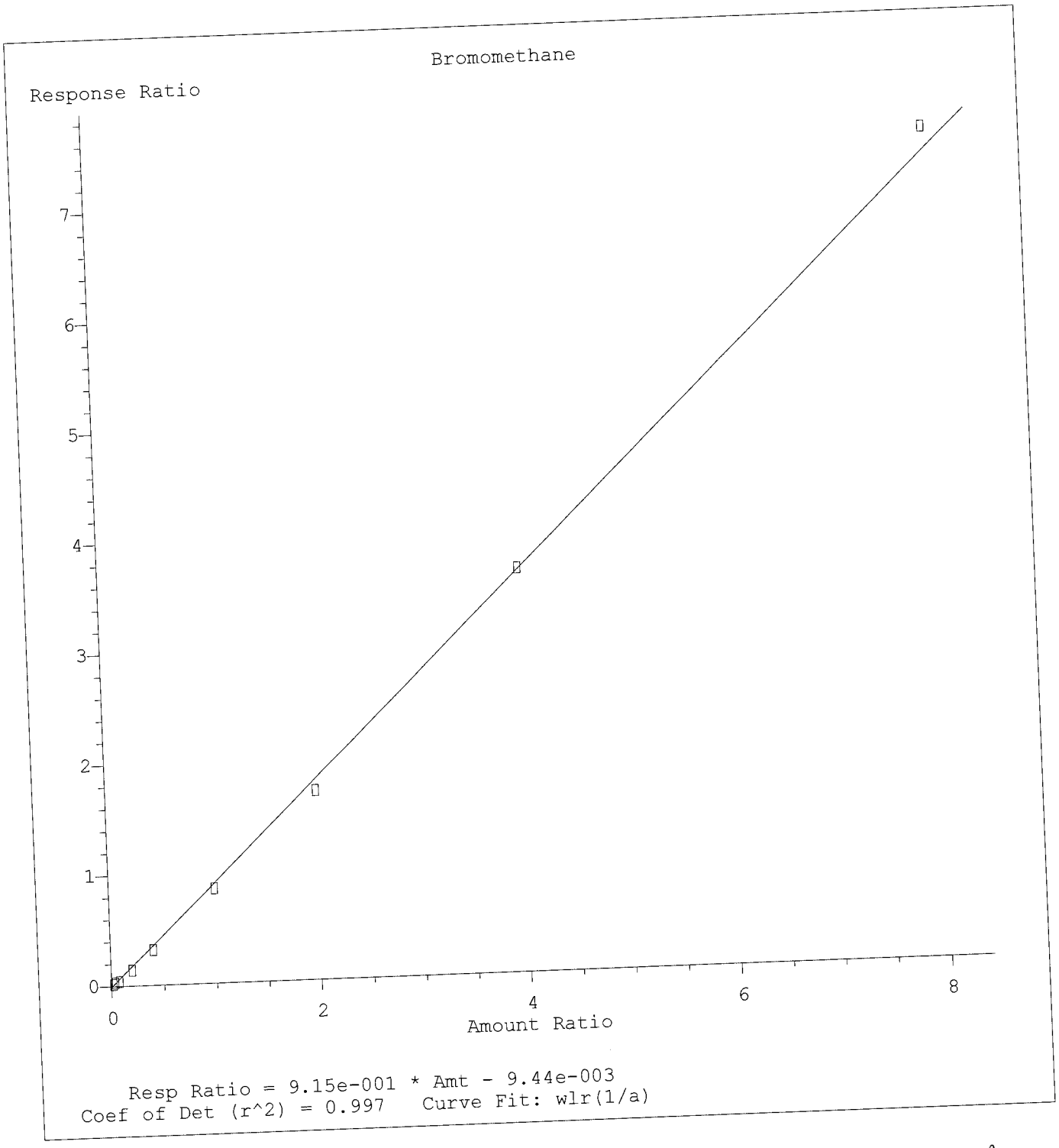
LC 03/18/11

60	T	n-Propylbenzene	91	18.30	0.937	A	1	A	B
61	T	2-Chlorotoluene	91	18.44	0.944	A	1	A	R
62	T	4-Chlorotoluene	91	18.55	0.949	A	1	A	R
63	T	1,3,5-Trimethylbenzene	105	18.70	0.957	A	1	A	B
64	T	tert-Butylbenzene	119	19.09	0.977	A	1	A	B
65	T	1,2,4-Trimethylbenzene	105	19.23	0.984	A	1	A	B
66	T	sec-Butylbenzene	105	19.37	0.992	A	1	A	B
67	T	1,3-Dichlorobenzene	146	19.48	0.997	A	2	A	R
68	T	1,4-Dichlorobenzene	146	19.57	1.002	A	2	A	R
69	T	p-Isopropyltoluene	119	19.61	1.004	A	2	A	B
70	T	1,2-Dichlorobenzene	146	20.02	1.025	A	2	A	B
71	T	n-Butylbenzene	91	20.12	1.030	A	1	A	B
72	T	1,2-Dibromo-3-chloropropane	157	20.58	1.054	A	1	A	B
73	T	1,2,4-Trichlorobenzene	180	22.28	1.141	A	1	A	B
74	T	Naphthalene	128	22.63	1.158	A	0	A	B
75	T	Hexachlorobutadiene	225	22.68	1.161	A	1	A	B
76	T	1,2,3-Trichlorobenzene	180	22.90	1.172	A	1	A	B

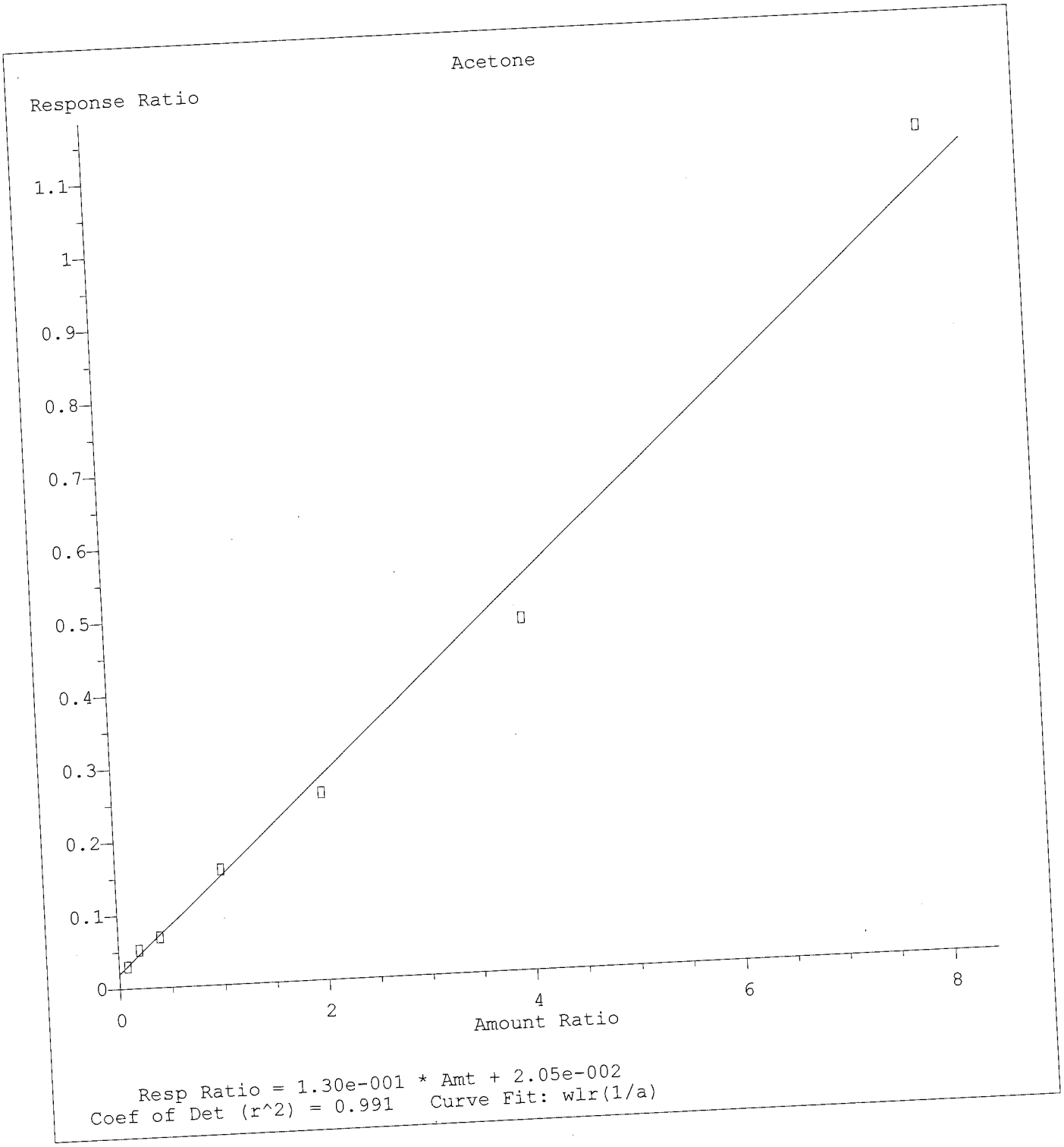
Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031711.M Thu Mar 17 14:51:24 2011



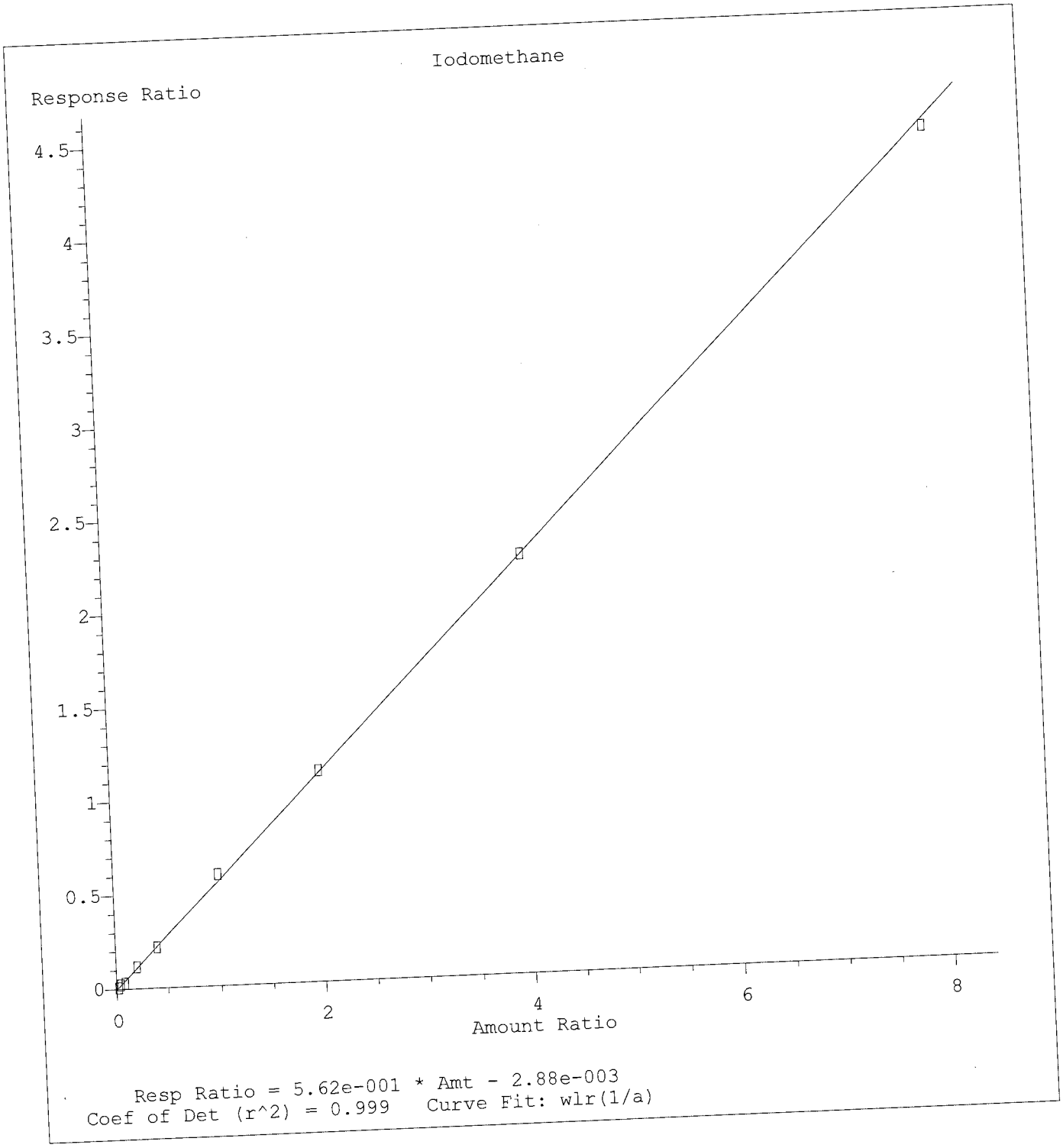
Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

2d 03/18/11



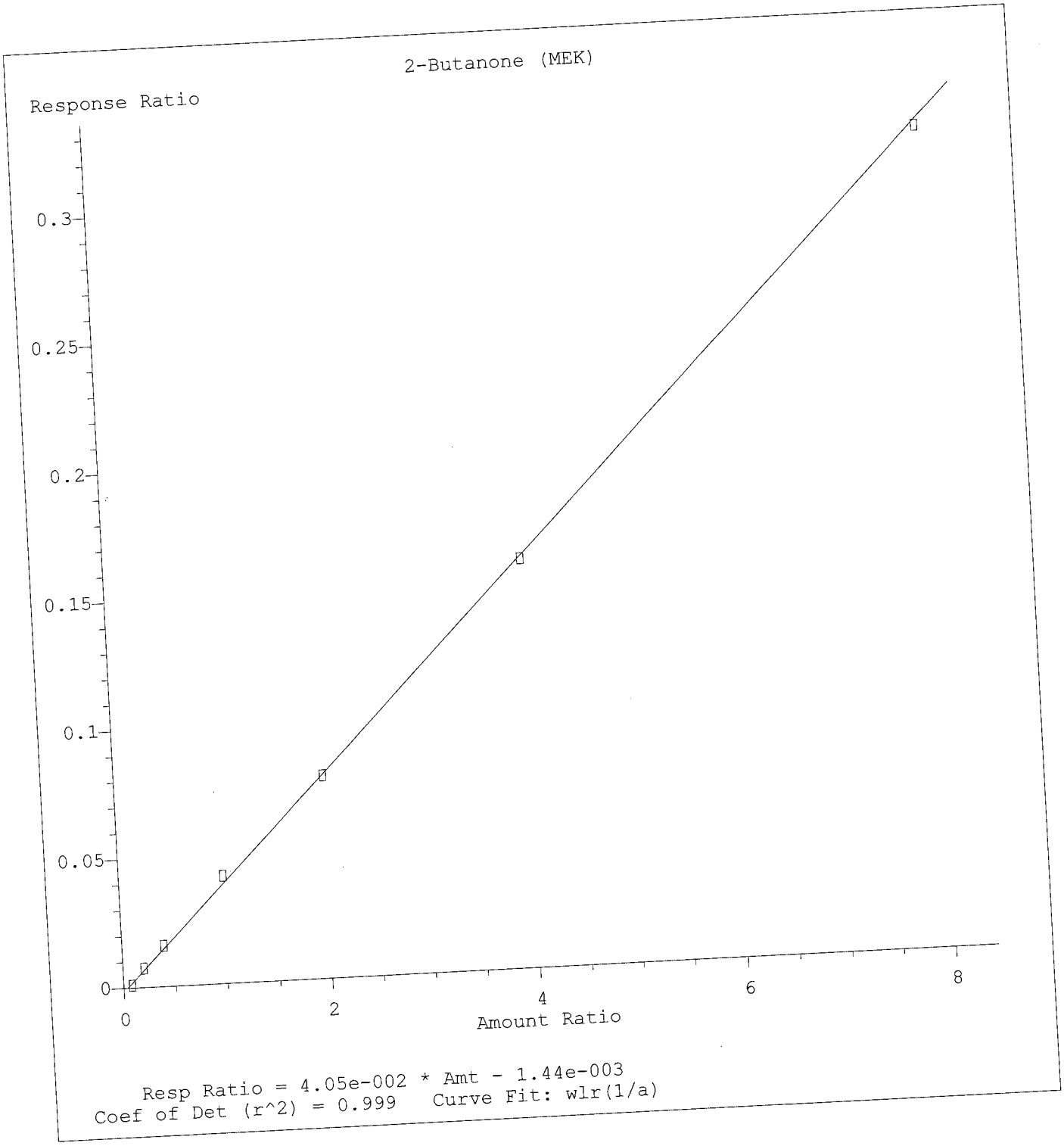
Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

LC 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

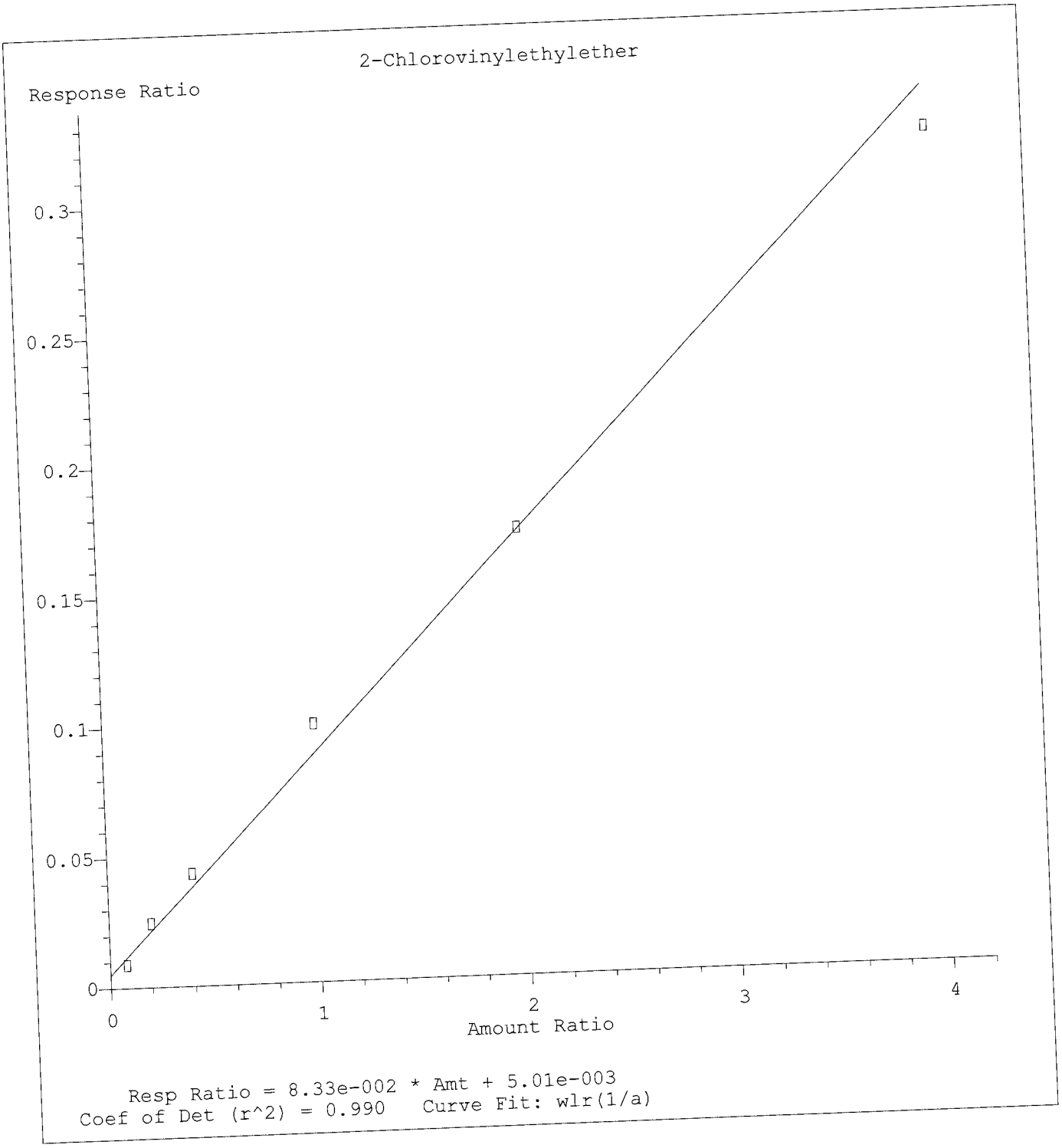
MS 4/1/11
LC 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

m 4/1/11

2C 03/18/11



Method Name: C:\HPCHEM\1\GCMS7\METHODS\031711.M
Calibration Table Last Updated: Thu Mar 17 14:08:36 2011

m/n/1PM
LC 03/18/11

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\031711

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03171101.d	1.	TUNE		17 Mar 2011 06:59
2	1	03171102.d	1.	TUNE		17 Mar 2011 07:16
3	16	03171103.d	1.	25 PPB CCV		17 Mar 2011 07:36
4	1	03171104.d	1.	BLANK		17 Mar 2011 08:10
5	2	03171105.d	1.	BLANK		17 Mar 2011 08:41
6	3	03171106.d	1.	0.5 PPB		17 Mar 2011 09:12
7	4	03171107.d	1.	1.0 PPB		17 Mar 2011 09:43
8	5	03171108.d	1.	2.0 PPB		17 Mar 2011 10:14
9	6	03171109.d	1.	5.0 PPB		17 Mar 2011 10:45
10	7	03171110.d	1.	10 PPB		17 Mar 2011 11:15
11	8	03171111.d	1.	25 PPB		17 Mar 2011 11:46
12	9	03171112.d	1.	50 PPB		17 Mar 2011 12:17
13	10	03171113.d	1.	100 PPB		17 Mar 2011 12:48
14	12	03171114.d	1.	200 PPB		17 Mar 2011 13:19
15	13	03171115.d	1.	SS		17 Mar 2011 13:50
16	16	03171116.d	1.	TERTIARY GAS		17 Mar 2011 14:20
17	1	03171117.d	1.	TUNE		17 Mar 2011 14:47
18	1	03171118.d	1.	25 PPB CCV		17 Mar 2011 15:06
19	2	03171119.d	1.	-BS1		17 Mar 2011 15:37
20	3	03171120.d	1.	-BSD1		17 Mar 2011 16:07
21	4	03171121.d	1.	-BLK1		17 Mar 2011 16:38
22	5	03171122.d	1.	PUC1019-01@16:20		17 Mar 2011 17:09
23	6	03171123.d	1.	PUC1019-02@16:22		17 Mar 2011 17:40
24	7	03171124.d	1.	PUC1025-02@16:25		17 Mar 2011 18:10
25	8	03171125.d	1.	PUC1025-01	5X	17 Mar 2011 18:41
26	9	03171126.d	1.	PUC1025-01	1X	17 Mar 2011 19:12
27	13	03171127.d	1.	PUC1025-01DUP1	1X	17 Mar 2011 19:43
28	16	03171128.d	1.	PUC0795-01		17 Mar 2011 20:13
29	1	03171129.d	1.	PUC0795-02		17 Mar 2011 20:44
30	2	03171130.d	1.	PUC0795-03		17 Mar 2011 21:15
31	3	03171131.d	1.	PUC0795-04		17 Mar 2011 21:46
32	4	03171132.d	1.	PUC0795-05		17 Mar 2011 22:17
33	5	03171133.d	1.	PUC0795-06		17 Mar 2011 22:48
34	6	03171134.d	1.	11C0657-MS1		17 Mar 2011 23:19
35	7	03171135.d	1.	11C0657-MSD1		17 Mar 2011 23:50
36	10	03171136.d	1.	BLK		18 Mar 2011 00:21
37	12	03171137.d	1.	BLK		18 Mar 2011 00:51

M 3/18/11

LC 03/18/11

TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY

DATE: 03/17/11
ANALYST: LC
CALIBRATION METHOD(S): 031411.M / New Curve -031711.M

QC BATCH # (s) : Air 11C0657, H_2O 0659
SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\ 031711

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
/	03171101	Tune	2uL	N/A	8260B	H_2O	DNU - Incorred Std.
/	02	↓	↓				
16	03	25 PPB CCV	1x10mL				DNU - Acetone
1	04	Blank					DNU - Clean Out
2	05	↓					
3	06	0.5 PPB					
4	07	1.0					
5	08	2.0					
6	09	5.0					
7	10	10					
8	11	25					
9	12	50					
10	13	100					
12	14	200					
13	15	SS					
16	16	Tertiary Gas	1x 10cc			Air	Bromomethane 49%
/	17	Tune	2uL			H_2O	
1	18	25 PPB CCV	1x 10mL				Acc ↑
2	19	11C0657 -BS1					iodo, CD ↑ 11C0659-B
3	20	-BSD1					iodo ↑ B
4	21	-BLK1					B
5	22	PUC1079-01A	1x10cc			Air	16:20
6	23	02 A					16:22
7	24	1025-02 A					16:25
8	25	1025-01 A @5x	2cc → 10cc				16:30
9	26	-01 A @1x	1x 10cc				16:27
13	27	-01 DUP					16:32 11C0657-DUP
16	28	PUC0795-01A	1x 10mL	≤2		H_2O	source
1	29	02 A		≤2			
2	30	03A		≤2			

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537
CALIBRATION STD: 1525 / PU01528
Internal Std: 1522
IS/Surrogate/BFB: 1534 / PU01261
LOT #: 3° Gas: PT06459

REQUIRED REVIEWS

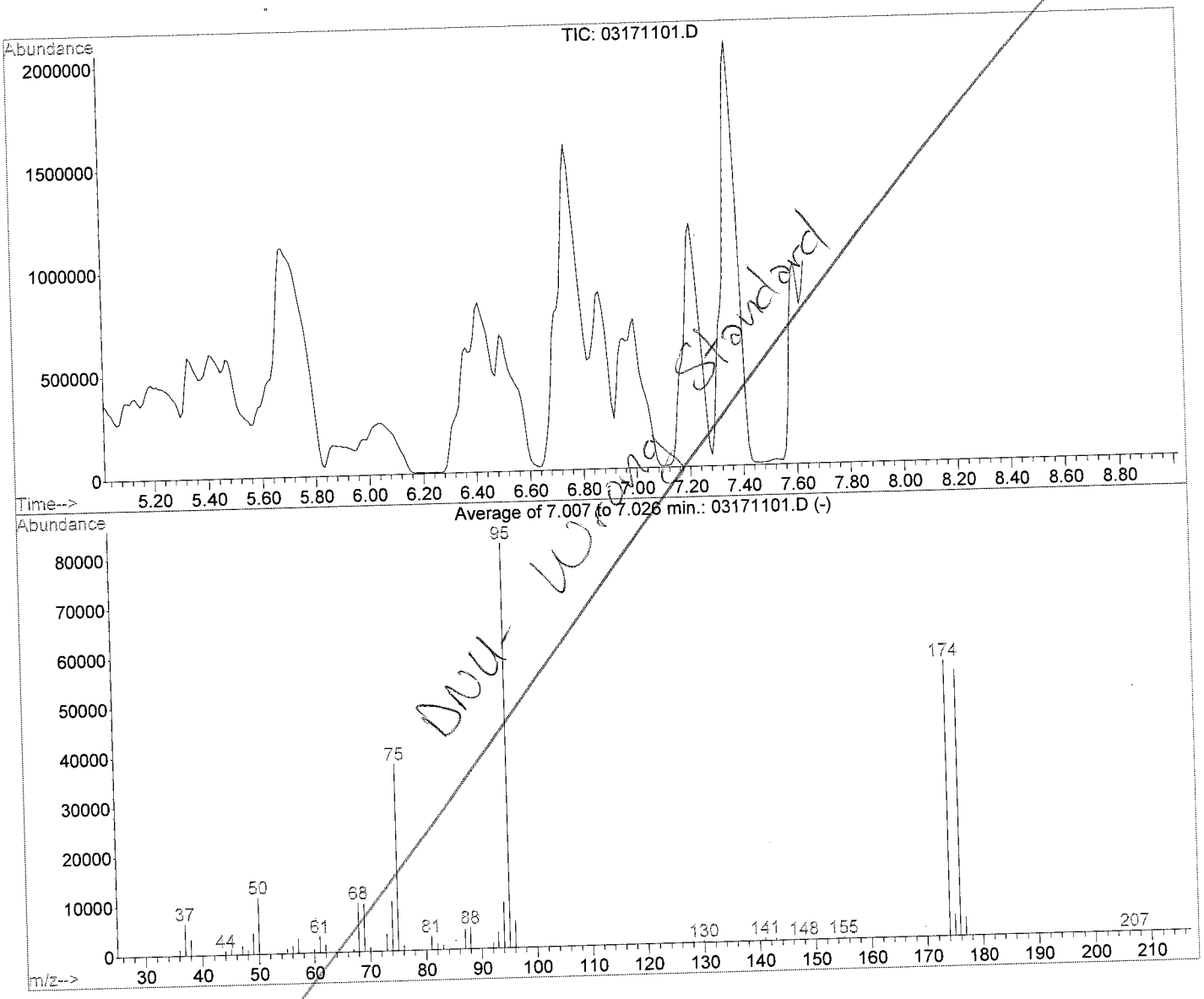
ARCHON REVIEWED
By / Date: LC 03/17/11
SEQUENCE REVIEWED
By / Date: LC 03/17/11
FINAL REVIEWER / Date: [illegible]

PX-VOA-009/C-07/09

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171101.D
Acq On : 17 Mar 2011 6:59 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00



Wrong Standard

Spectrum Information: Average of 7.007 to 7.026 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	13.9	11317	FAIL*
75	95	30	60	46.1	37626	PASS
95	95	100	100	100.0	81675	PASS
96	95	5	9	6.6	5429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.1	55616	PASS
175	174	5	9	7.8	4344	PASS
176	174	95	101	96.5	53661	PASS
177	176	5	9	6.7	3599	PASS

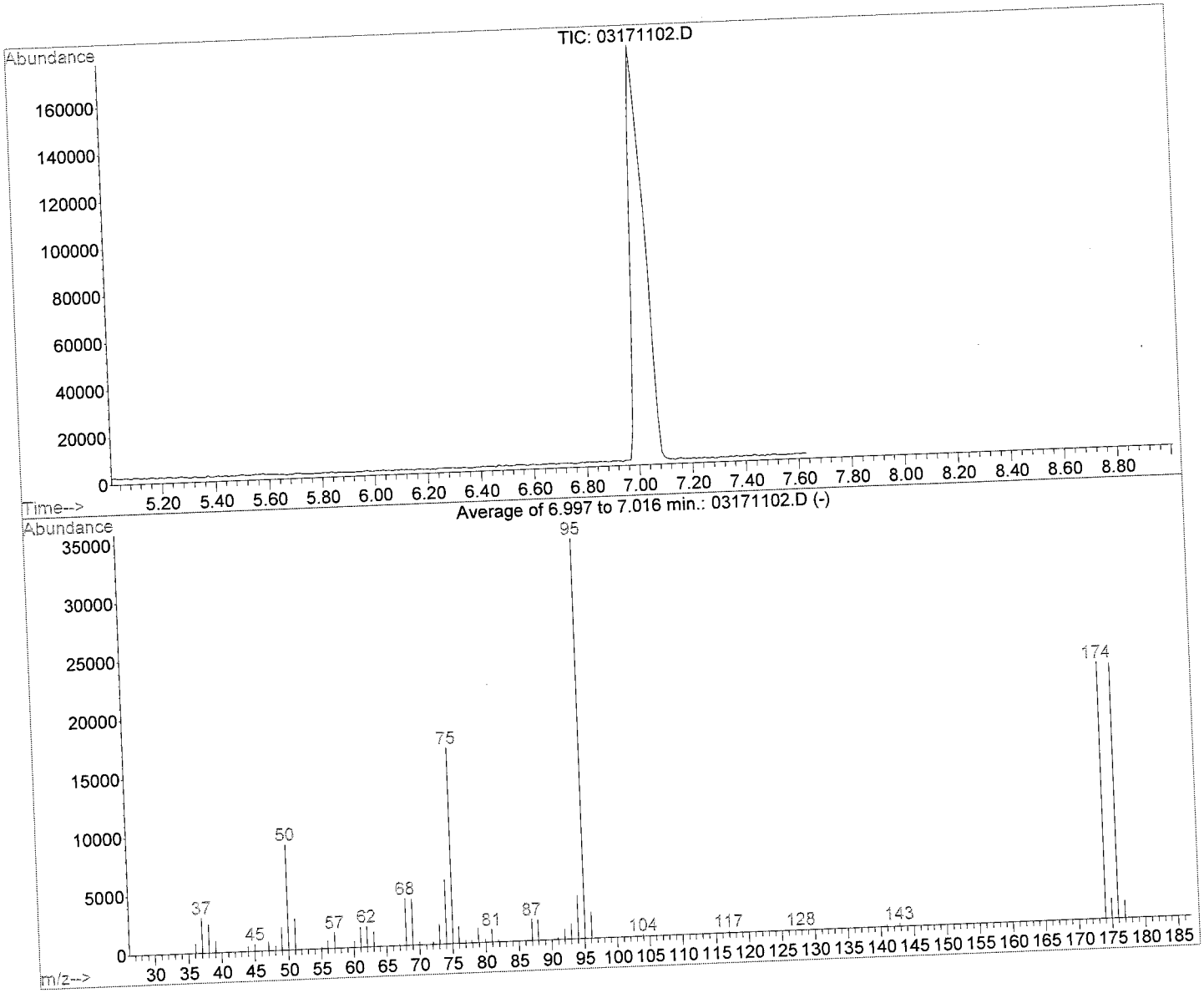
MI 3/18/11
LC 03/18/11

03171101.D 031711.M Thu Mar 17 14:54:14 2011

Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171102.D
Acq On : 17 Mar 2011 7:16 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00



Spectrum Information: Average of 6.997 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	8966	PASS
75	95	30	60	48.9	16685	PASS
95	95	100	100	100.0	34109	PASS
96	95	5	9	6.4	2195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.1	21869	PASS
175	174	5	9	7.8	1697	PASS
176	174	95	101	99.3	21715	PASS
177	176	5	9	6.7	1463	PASS

LC 03/18/11

03171102.D 031411.M Thu Mar 17 13:54:22 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	183444	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	325784	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	270420	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	118494	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	106054	24.28 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.12%	
39) Toluene-d8	14.11	98	384866	24.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 99.12%	
53) 4-Bromofluorobenzene	17.75	95	134955	24.39 ug/L	0.00
Spiked Amount 25.000			Recovery	= 97.56%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	203514	22.97 ug/L	100
3) Chloromethane	4.90	50	349427	27.92 ug/L	100
4) Vinyl chloride	5.19	62	318799	26.09 ug/L	99
5) Bromomethane	5.78	94	141014	26.05 ug/L	96
6) Chloroethane	5.99	64	169039	25.83 ug/L	97
7) Trichlorofluoromethane	6.18	101	229398	25.07 ug/L	99
8) Acetone	6.93	43	87501	Below Cal	97
9) Iodomethane	7.58	142	98773	23.31 ug/L	98
10) 1,1-Dichloroethene	7.52	96	122197	26.18 ug/L	94
11) Methylene chloride	7.71	84	141233	23.11 ug/L	100
12) Freon 113	7.78	101	141514	23.82 ug/L	99
13) Carbon disulfide	8.03	76	424756	25.69 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	133127	23.44 ug/L	97
15) MTBE	8.73	73	229415	23.89 ug/L	98
16) 1,1-Dichloroethane	8.92	63	275296	23.59 ug/L	99
17) Vinyl acetate	9.08	43	220376	24.39 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7147	23.08 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	138298	23.44 ug/L	98
20) Bromochloromethane	9.87	128	51964	23.76 ug/L	97
21) Chloroform	9.93	83	226993	23.52 ug/L	100
22) 2,2-Dichloropropane	10.03	77	199254	24.74 ug/L	99
24) 1,2-Dichloroethane	10.78	62	137605	24.05 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	172734	23.93 ug/L	98
27) 1,1-Dichloropropene	11.15	75	199034	23.87 ug/L	99
28) Carbon tetrachloride	11.39	117	140086	24.16 ug/L	99
29) Benzene	11.44	78	525784	23.82 ug/L	100
30) Dibromomethane	12.17	93	59810	22.72 ug/L	99
31) 1,2-Dichloropropane	12.21	63	147015	23.80 ug/L	100
32) Trichloroethene	12.26	95	130559	23.47 ug/L	100
33) Bromodichloromethane	12.33	83	152627	23.43 ug/L	97
34) 2-Chlorovinylethylether	12.86	63	34857	23.00 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	192256	24.47 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.30	43	79041	22.82 ug/L	98
37) trans-1,3-Dichloropropene	13.73	75	148191	24.15 ug/L	98
38) 1,1,2-Trichloroethane	13.95	83	69853	23.20 ug/L	96
40) Toluene	14.21	92	301555	24.42 ug/L	99
42) 1,3-Dichloropropane	14.27	76	144303	23.31 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171103.D 031411.M Thu Mar 17 13:54:27 2011

LC 03/18/11

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D
Acq On : 17 Mar 2011 7:36 am
Sample : 25 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

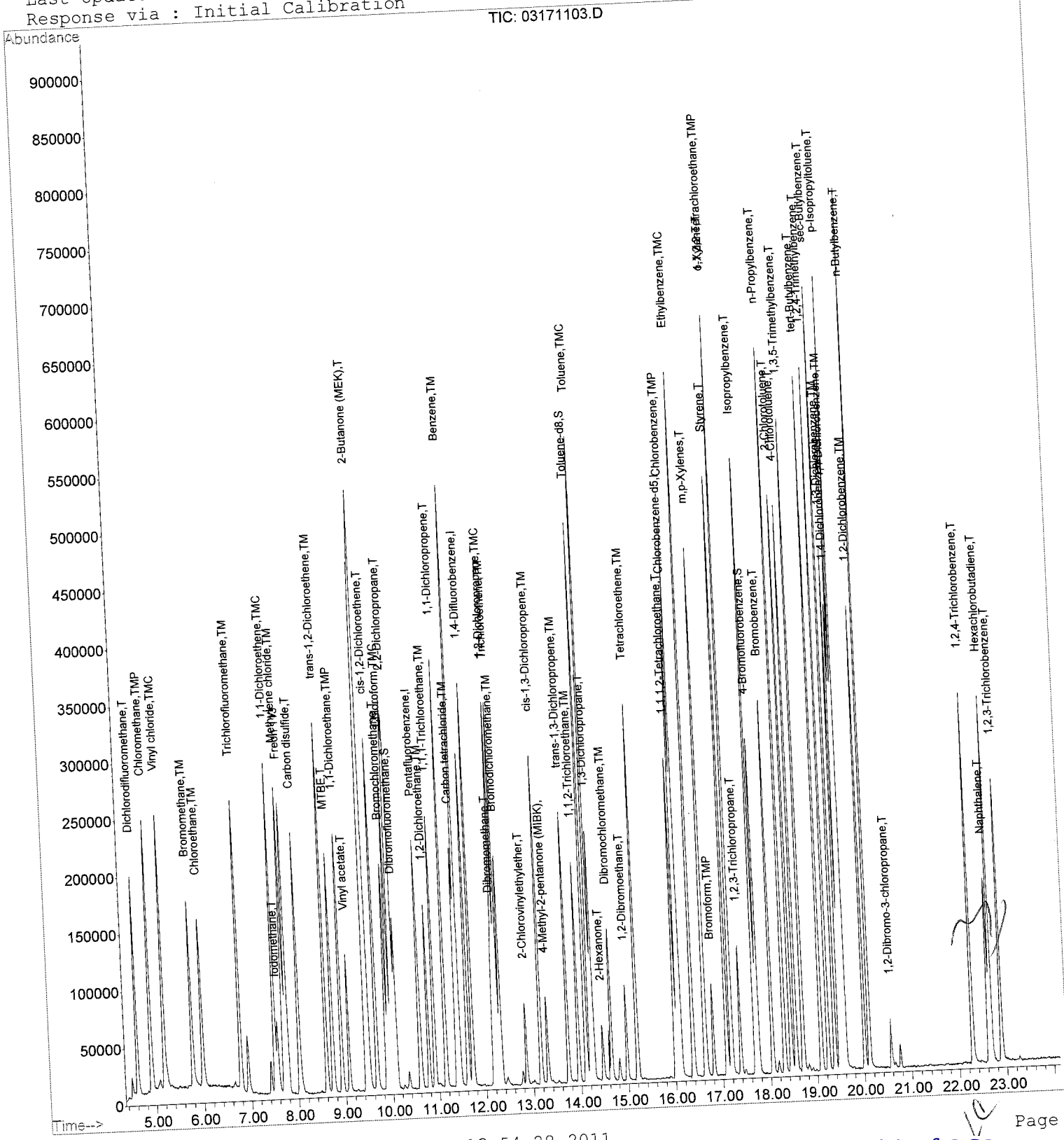
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	52512	24.58 ug/L #	99
44) Dibromochloromethane	14.65	129	85525	24.04 ug/L	98
45) 1,2-Dibromoethane	14.98	107	75677	25.06 ug/L	99
46) Tetrachloroethene	15.20	166	116159	23.97 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	93416	24.16 ug/L	98
48) Chlorobenzene	16.12	112	306146	24.04 ug/L	97
49) Ethylbenzene	16.38	91	563689	24.00 ug/L	99
50) m,p-Xylenes	16.64	106	197842	23.89 ug/L	100
51) Styrene	17.09	104	313010	24.57 ug/L	100
52) o-Xylene	17.19	106	188426	23.54 ug/L	100
55) Bromoform	16.81	173	45375	27.10 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	85826	24.73 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	19634	26.45 ug/L	97
58) Isopropylbenzene	17.70	105	467417	25.22 ug/L	100
59) Bromobenzene	18.05	156	105243	25.16 ug/L	98
60) n-Propylbenzene	18.30	91	657511	25.12 ug/L	100
61) 2-Chlorotoluene	18.44	91	374515	24.85 ug/L	99
62) 4-Chlorotoluene	18.55	91	377509	25.07 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	397648	25.20 ug/L	99
64) tert-Butylbenzene	19.09	119	338640	25.00 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	398096	24.77 ug/L	98
66) sec-Butylbenzene	19.38	105	570587	24.77 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	211237	24.59 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	208652	24.28 ug/L	99
69) p-Isopropyltoluene	19.61	119	450706	25.20 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	179425	24.69 ug/L	99
71) n-Butylbenzene	20.11	91	503050	25.42 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	11007	24.17 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	125573	24.32 ug/L	99
74) Naphthalene	22.62	128	162763	24.75 ug/L	100
75) Hexachlorobutadiene	22.68	225	79503	27.59 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	100849	23.50 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171103.D 031411.M Thu Mar 17 13:54:27 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171103.D Vial: 16
Acq On : 17 Mar 2011 7:36 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171103.D 031411.M Thu Mar 17 13:54:28 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D
Acq On : 17 Mar 2011 8:10 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	208596	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	368454	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	303623	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	134043	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	111829	22.51 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.04%	
39) Toluene-d8	14.11	98	400008	22.77 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.08%	
53) 4-Bromofluorobenzene	17.75	95	138919	22.36 ug/L	0.00
Spiked Amount 25.000			Recovery	= 89.44%	

Target Compounds					Qvalue
8) Acetone	6.94	43	4324	1.42 ug/L #	65
10) 1,1-Dichloroethene	7.51	96	60	Below Cal #	73
13) Carbon disulfide	8.03	76	742	Below Cal	100
24) 1,2-Dichloroethane	10.60	62	1046	0.16 ug/L #	1
36) 4-Methyl-2-pentanone (MIBK	13.01	43	7775	1.98 ug/L #	50
38) 1,1,2-Trichloroethane	14.12	83	373	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.11	76	4467	0.64 ug/L #	68
73) 1,2,4-Trichlorobenzene	22.29	180	1153	0.20 ug/L	97
74) Naphthalene	22.63	128	8429	1.13 ug/L	100
76) 1,2,3-Trichlorobenzene	22.91	180	1057	0.22 ug/L	93

DNR Clean Out

m 3/11/11

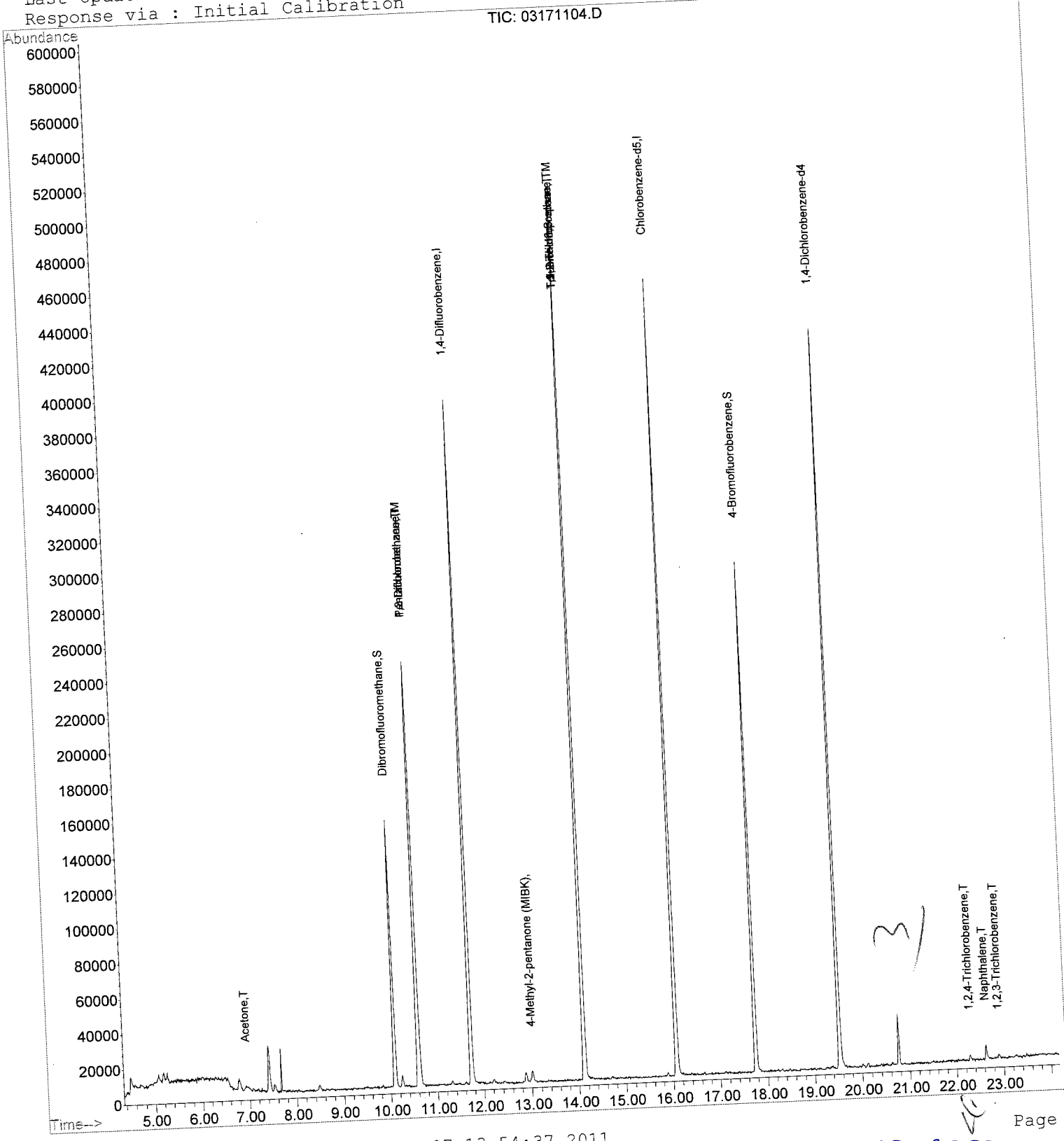
LC 03/18/11

(#) = qualifier out of range (m) = manual integration
03171104.D 031411.M Thu Mar 17 13:54:37 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 8:10 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 13:54 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D Vial: 2
Acq On : 17 Mar 2011 8:41 am Operator: LC
Sample : BLANK Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	24.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 96.00%	
39) Toluene-d8	14.11	98	374753	22.97 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.88%	
53) 4-Bromofluorobenzene	17.75	95	131653	22.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.40%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.14 ug/L LRL	98
8) Acetone	6.93	43	3328	0.96 ug/L #	69
10) 1,1-Dichloroethene	7.53	96	127	Below Cal #	1
13) Carbon disulfide	8.02	76	5282	Below Cal	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	82
24) 1,2-Dichloroethane	10.60	62	1206	0.20 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.60 ug/L # WRT	70
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	32
74) Naphthalene	22.63	128	1667	0.23 ug/L	100

m 3/17/11

LC 03/18/11

(#) = qualifier out of range (m) = manual integration
03171105.D 031411.M Thu Mar 17 13:54:55 2011

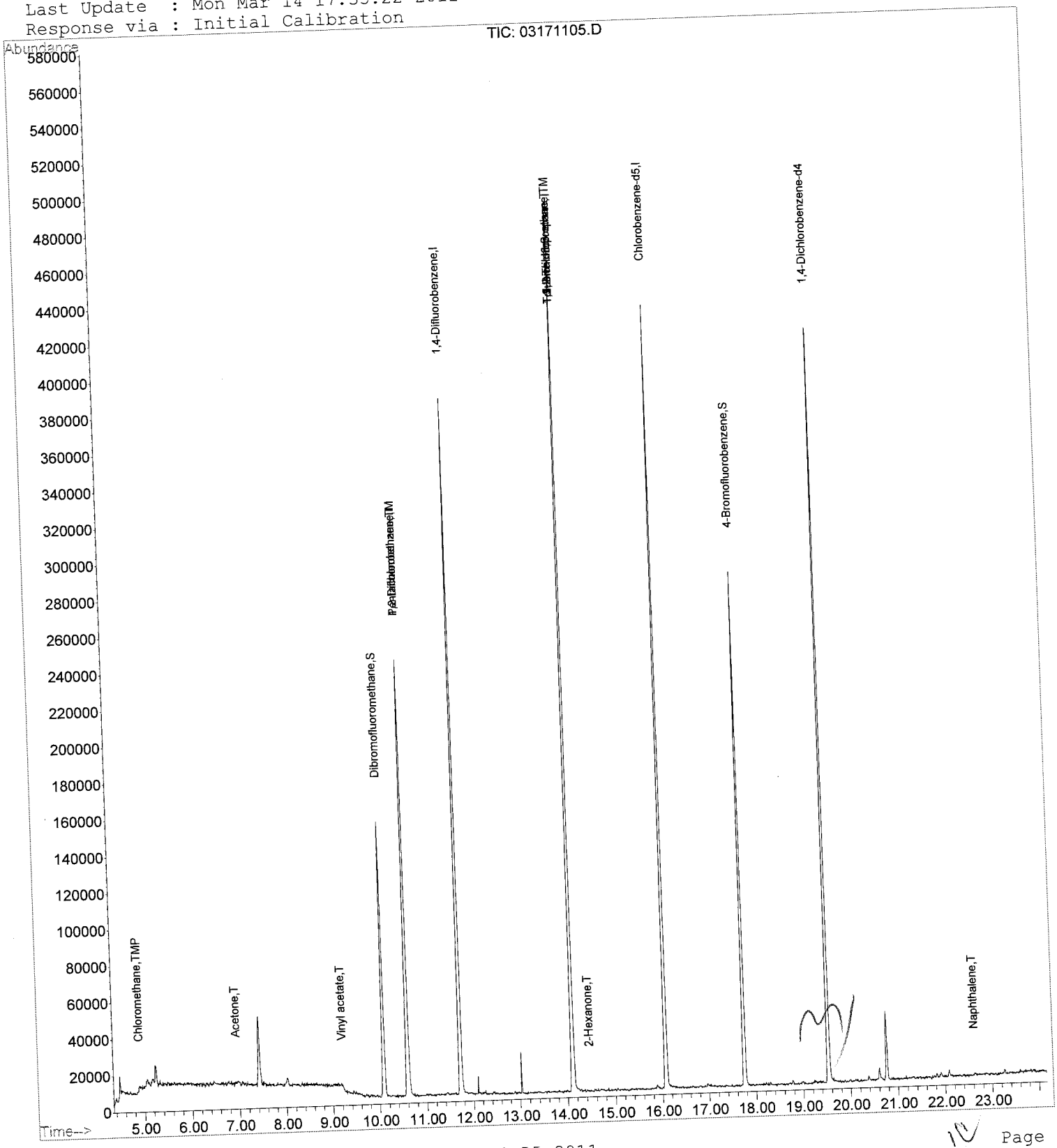
Quantitation Report

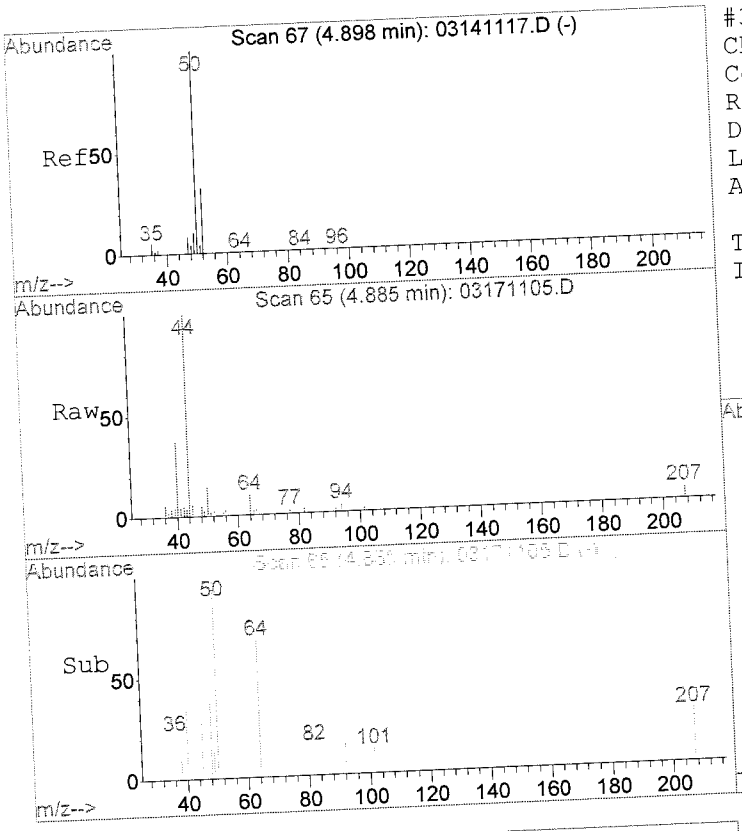
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D
Acq On : 17 Mar 2011 8:41 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:54 2011

Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration

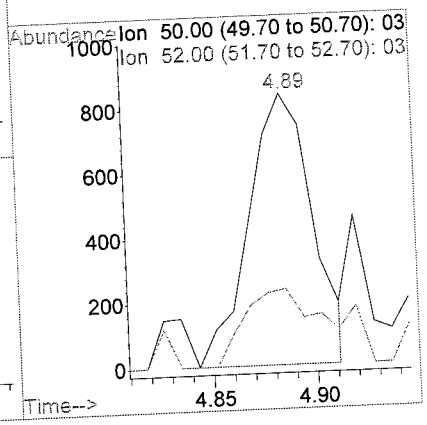


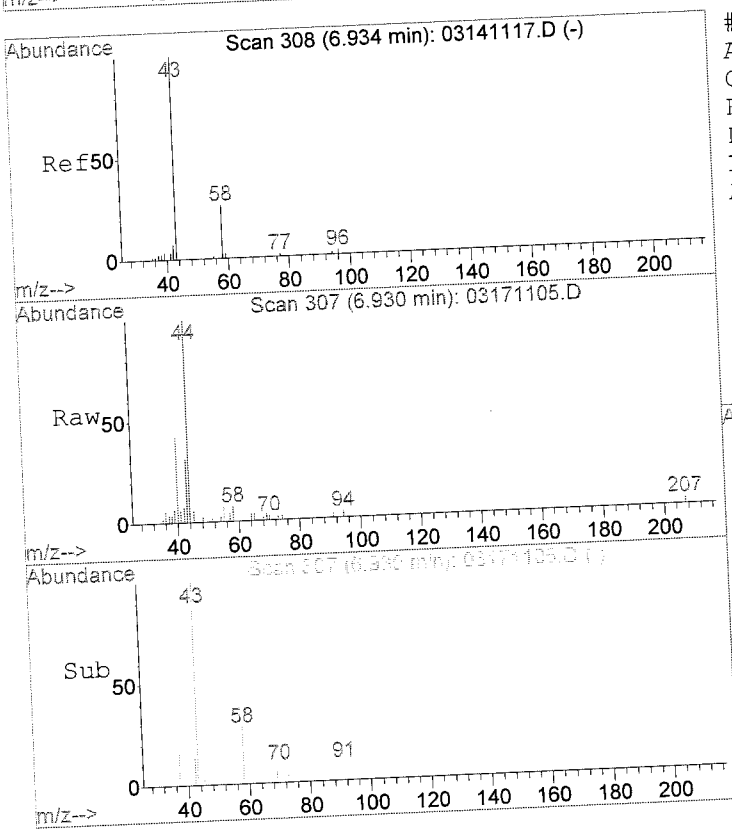


#3
Chloromethane
Concen: 0.14 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.4	38.2

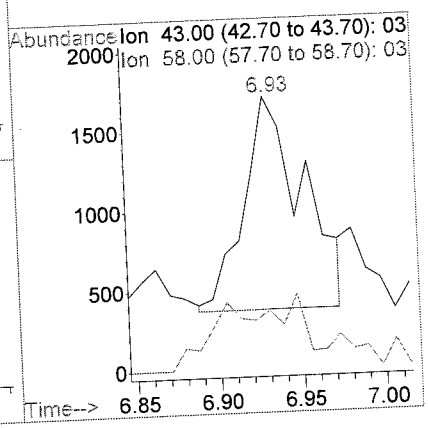


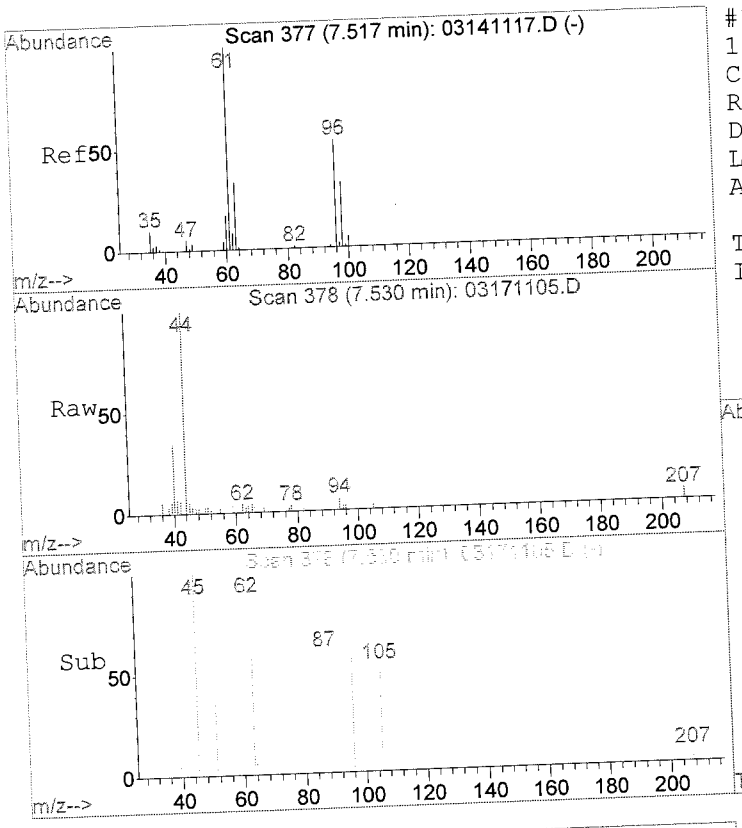


#8
Acetone
Concen: 0.96 ug/L
RT: 6.93 min Scan# 307
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

Ion	Ratio	Lower	Upper
43	100		
58	9.7	20.4	30.6#

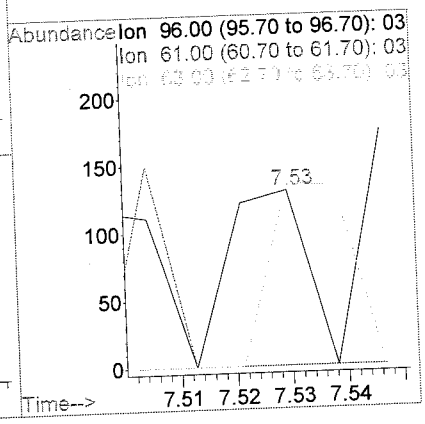


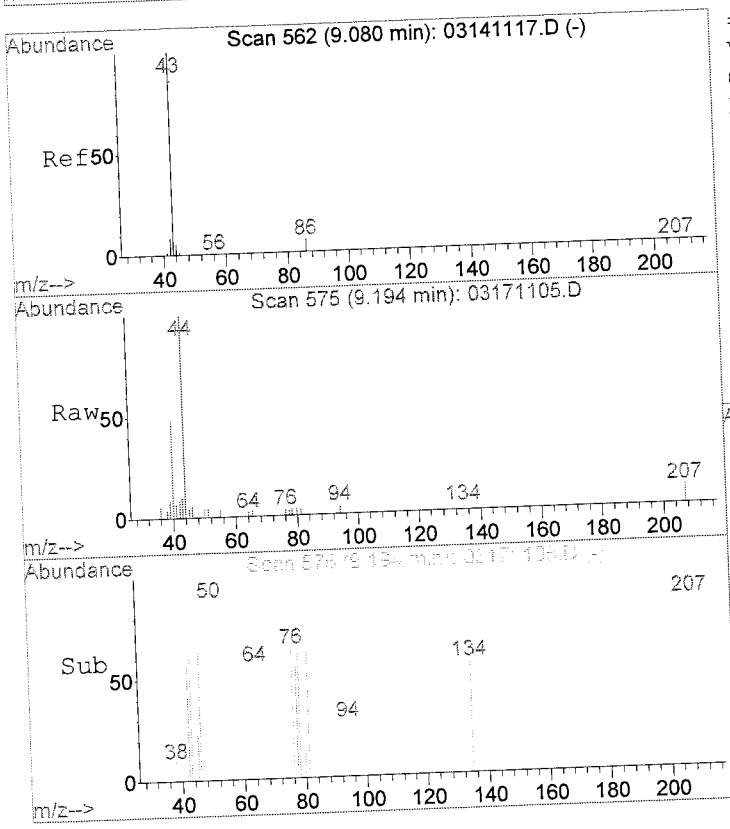


#10
1,1-Dichloroethene
Concen: Below Cal
RT: 7.53 min Scan# 378
Delta R.T. 0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 96 Resp: 127

Ion	Ratio	Lower	Upper
96	100		
61	0.0	164.0	246.0#
63	107.1	51.4	77.0#

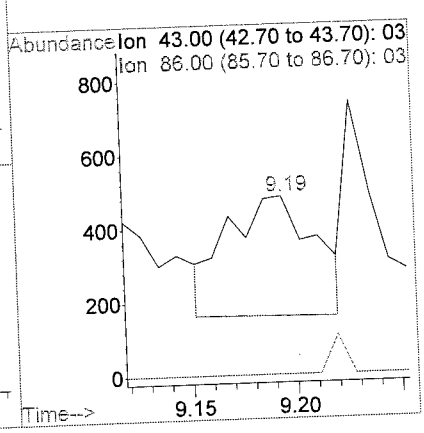


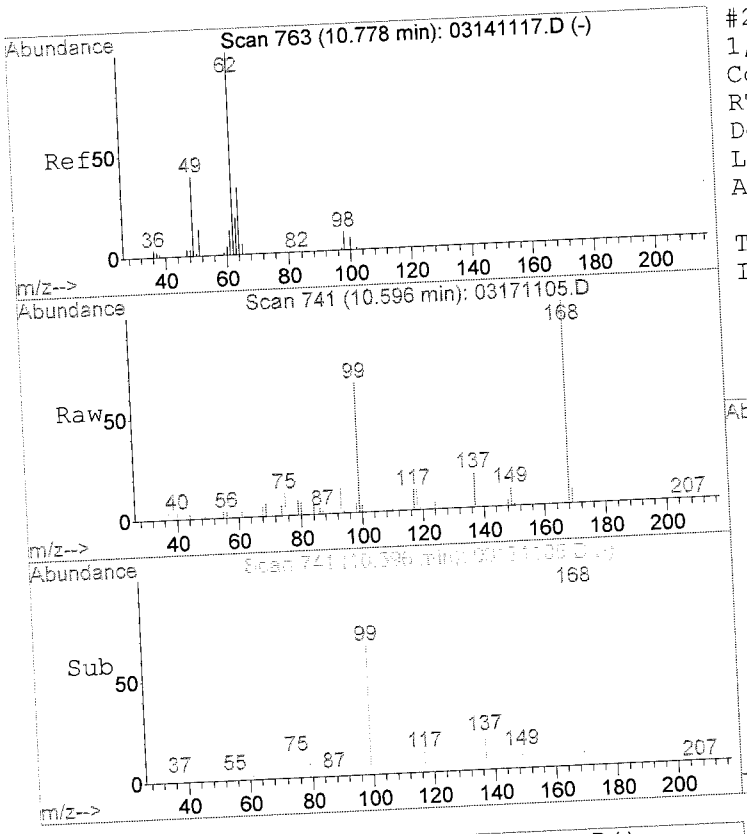


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.7	7.1#

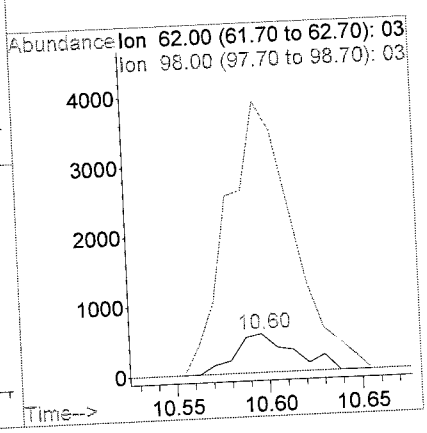


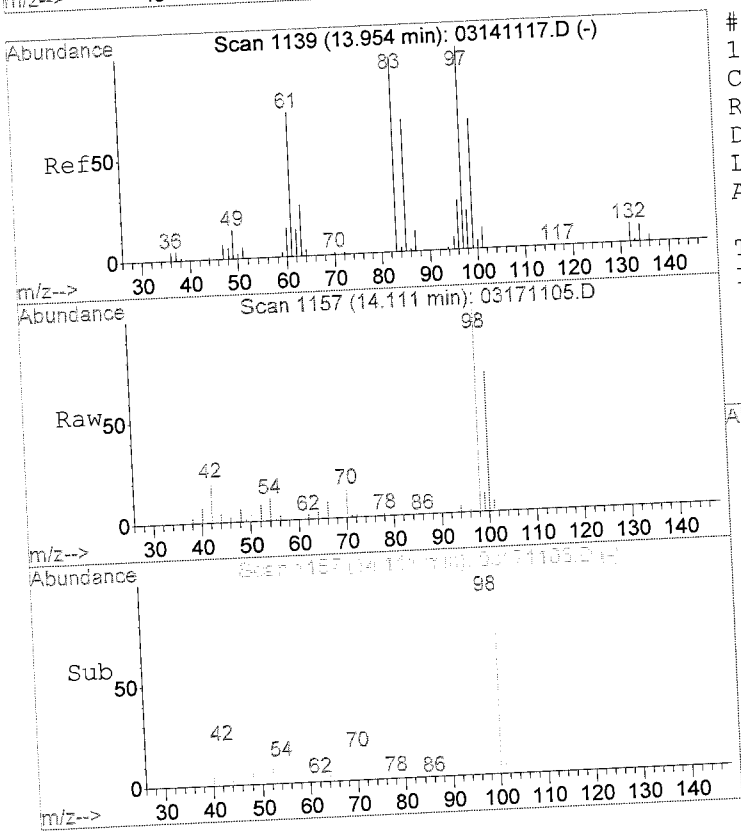


#24
1,2-Dichloroethane
Concen: 0.20 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.18 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	6.8	10.2#

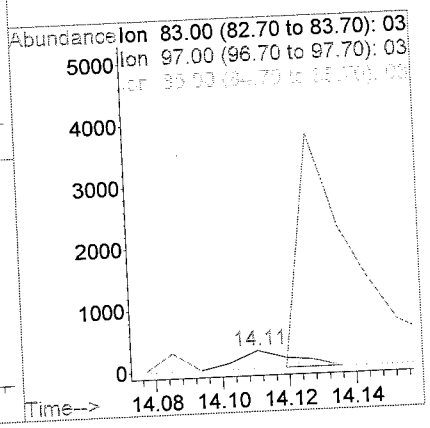


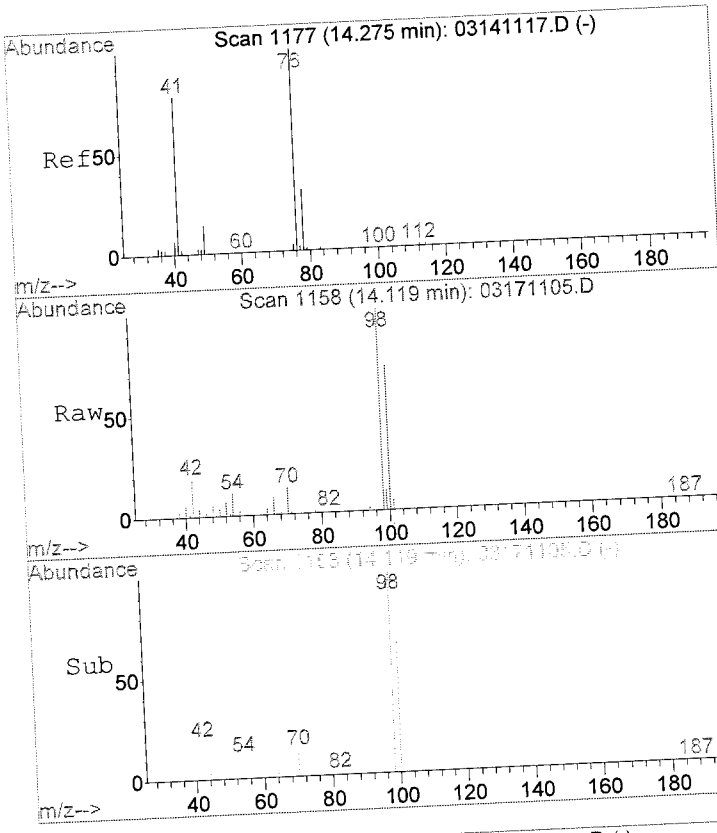


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	80.6	120.8#
85	0.0	51.4	77.0#



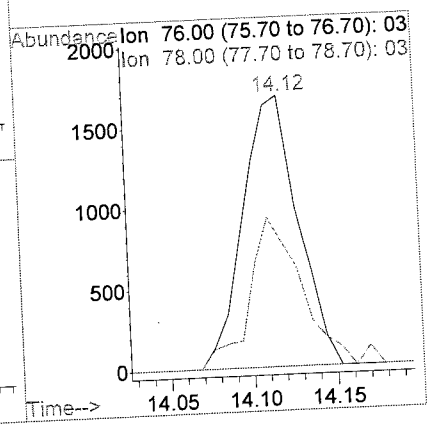


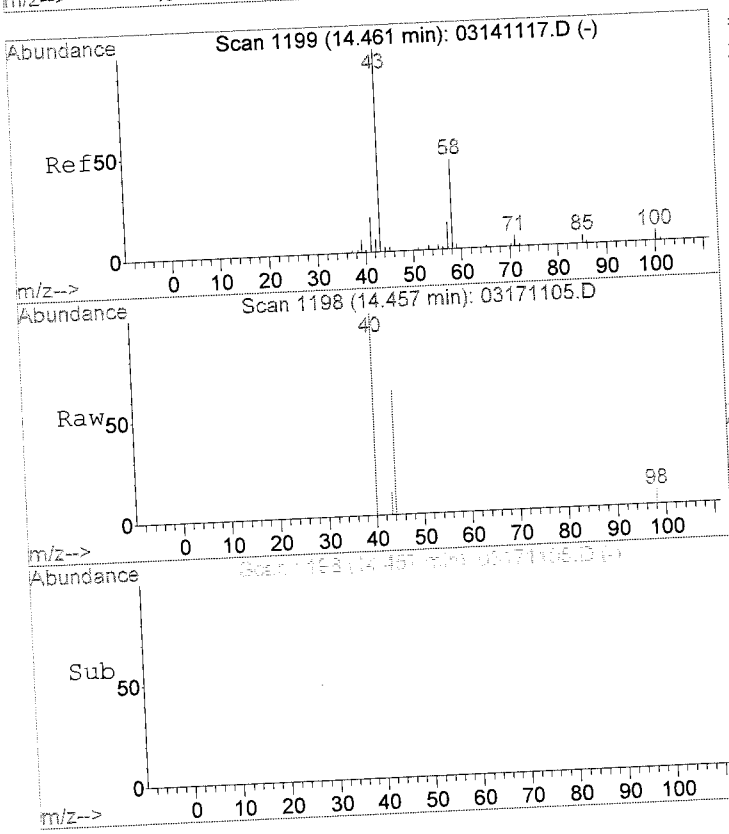
#42
1,3-Dichloropropane
Concen: 0.60 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	25.5	38.3#

WRT

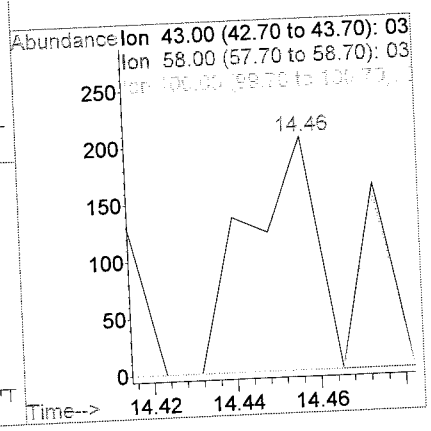




#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

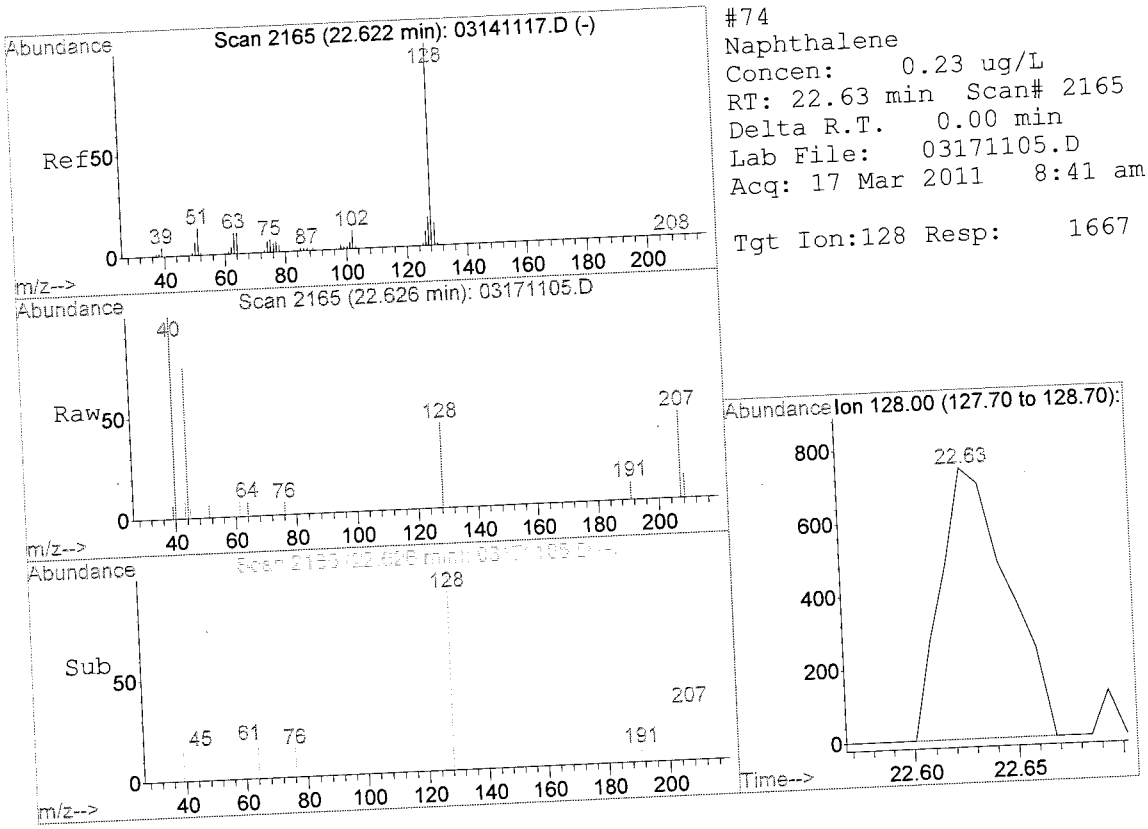
Tgt Ion: 43 Resp: 235

Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.8	52.2#
100	0.0	0.0	0.0



MJ

VC



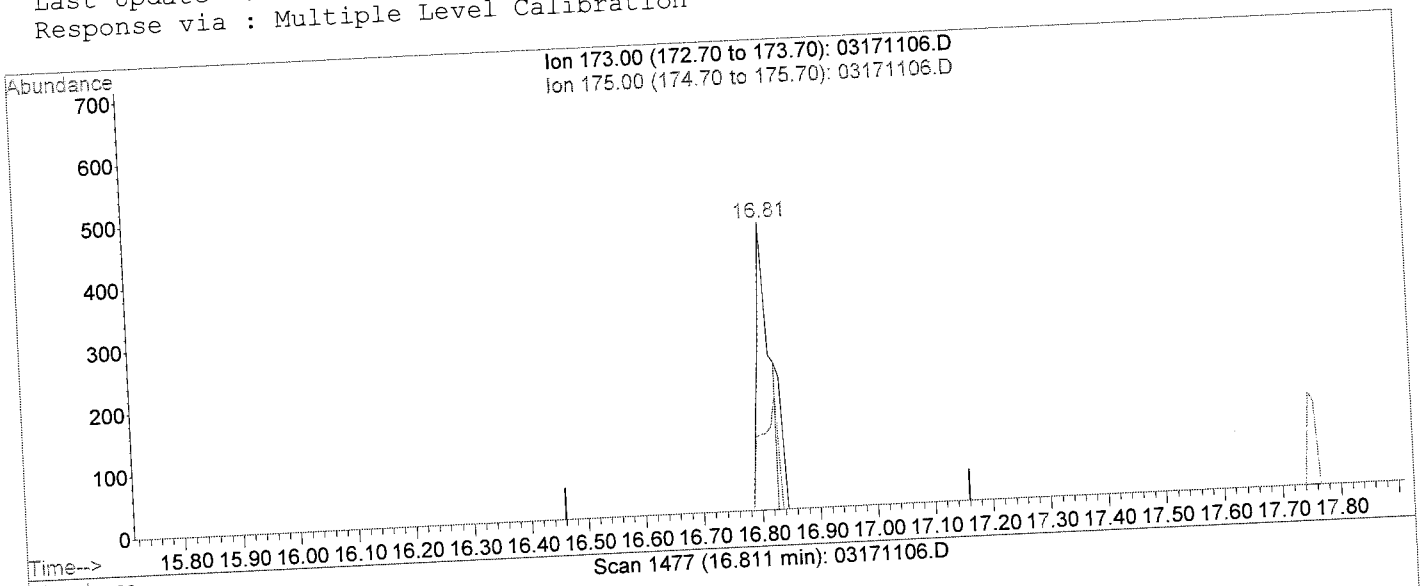
#74
Naphthalene
Concen: 0.23 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

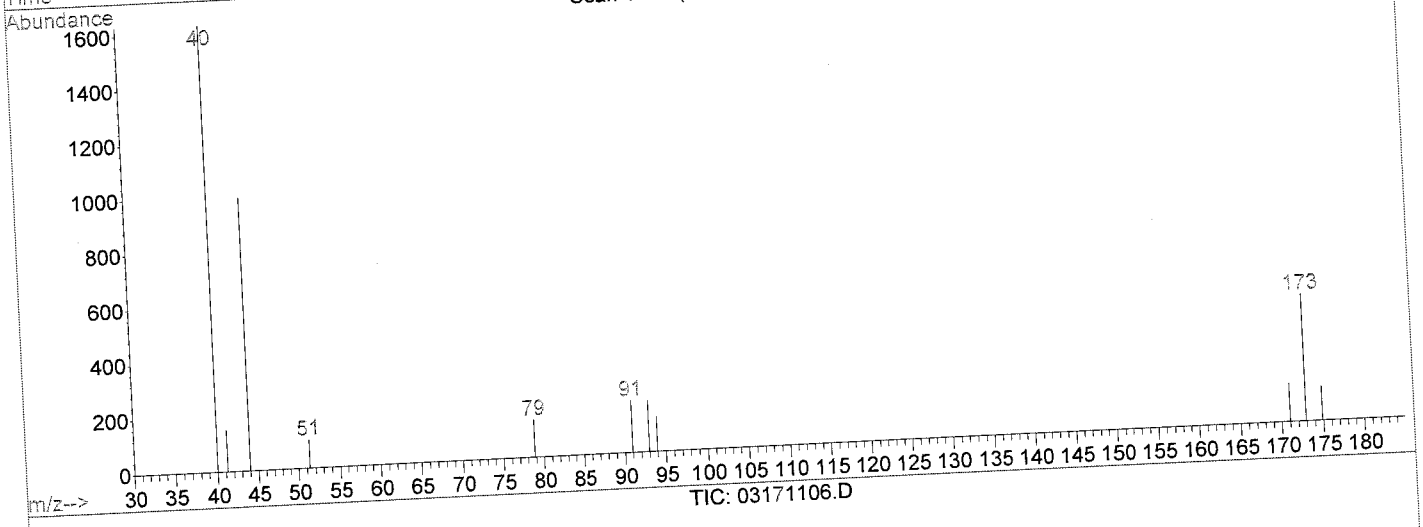
Tgt Ion:128 Resp: 1667

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: temp.res
Quant Time: Mar 17 13:55 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





TIC: 03171106.D

(55) Bromoform (TMP)

16.81min 0.42ug/L

response 696

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	23.13#
0.00	0.00	0.00
0.00	0.00	0.00

Before - SP

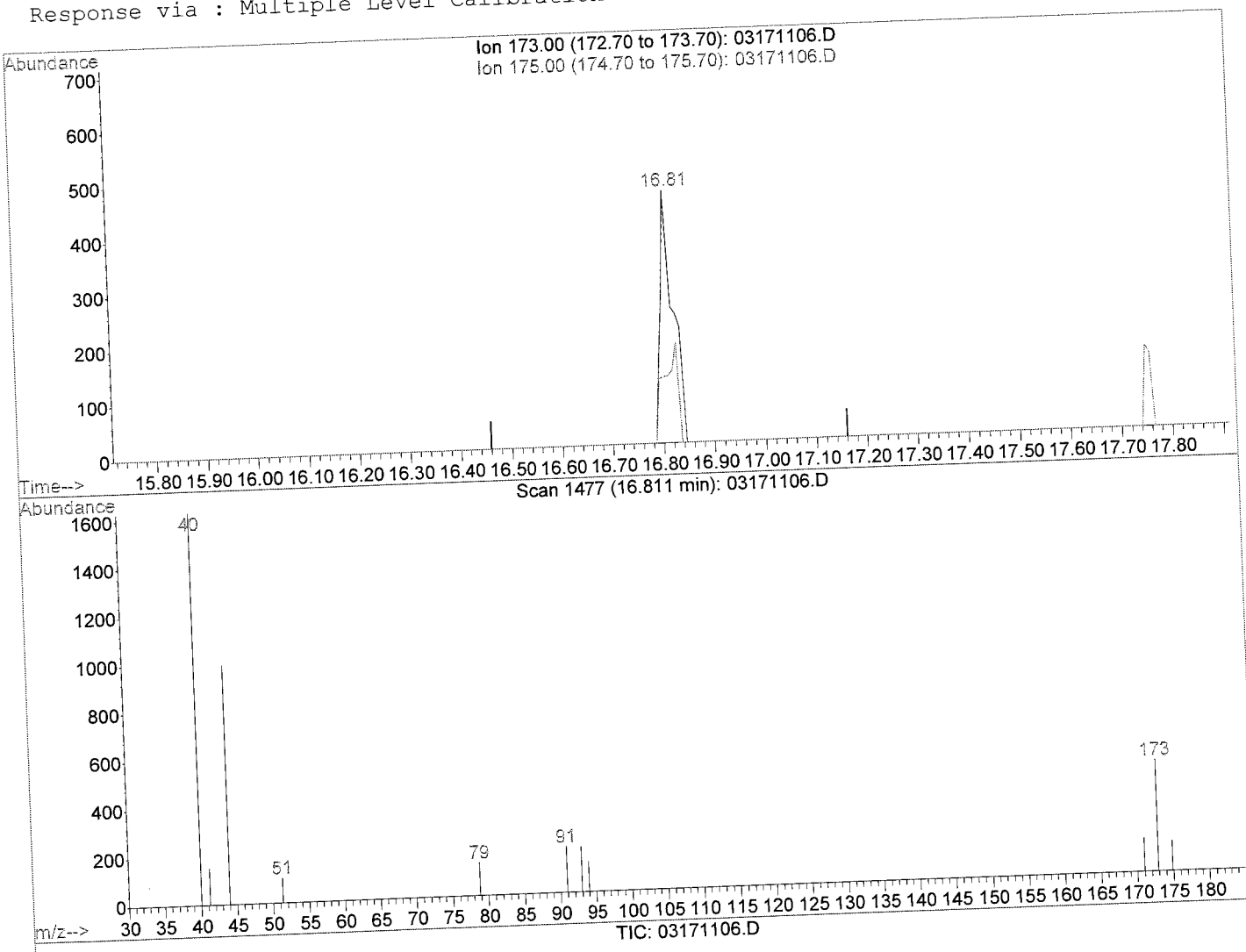
LC 03/18/11

03171106.D 031411.M Thu Mar 17 13:56:05 2011

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration



(55) Bromoform (TMP)

16.81min 0.49ug/L m

response 803

Ion	Exp%	Act%
173.00	100	100
175.00	50.90	20.05#
0.00	0.00	0.00
0.00	0.00	0.00

After

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.48%	
39) Toluene-d8	14.12	98	8971	0.63 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.52%	
53) 4-Bromofluorobenzene	17.76	95	3244	0.65 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.60%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.53 ug/L	92
3) Chloromethane	4.89	50	6587	0.58 ug/L	96
4) Vinyl chloride	5.18	62	6003	0.54 ug/L	90
5) Bromomethane	5.78	94	3084	0.62 ug/L	90
6) Chloroethane	5.97	64	3371	0.56 ug/L #	75
7) Trichlorofluoromethane	6.77	101	4364	0.52 ug/L	93
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.58	142	1272	0.33 ug/L	95
10) 1,1-Dichloroethene	7.50	96	2883	0.40 ug/L	91
11) Methylene chloride	7.70	84	3890	0.70 ug/L	95
12) Freon 113	7.77	101	3509	0.65 ug/L	93
13) Carbon disulfide	8.02	76	10027	0.34 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	91
15) MTBE	8.73	73	5033	0.57 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.56 ug/L	97
17) Vinyl acetate	9.08	43	4816	0.58 ug/L #	82
18) 2-Butanone (MEK)	9.46	72	199	0.70 ug/L #	33
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	89
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	90
21) Chloroform	9.93	83	4941	0.56 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.52 ug/L	98
24) 1,2-Dichloroethane	10.77	62	2927	0.56 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.50 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	96
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.55 ug/L	100
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	86
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L	99
32) Trichloroethene	12.27	95	2709	0.53 ug/L	97
33) Bromodichloromethane	12.33	83	3018	0.51 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	0.56 ug/L #	56
35) cis-1,3-Dichloropropene	13.18	75	3500	0.49 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	0.00	43	0	N.D. d	
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.50 ug/L #	82
40) Toluene	14.21	92	6374	0.56 ug/L	98
42) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171106.D 031411.M Thu Mar 17 13:56:36 2011

M 4/1/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

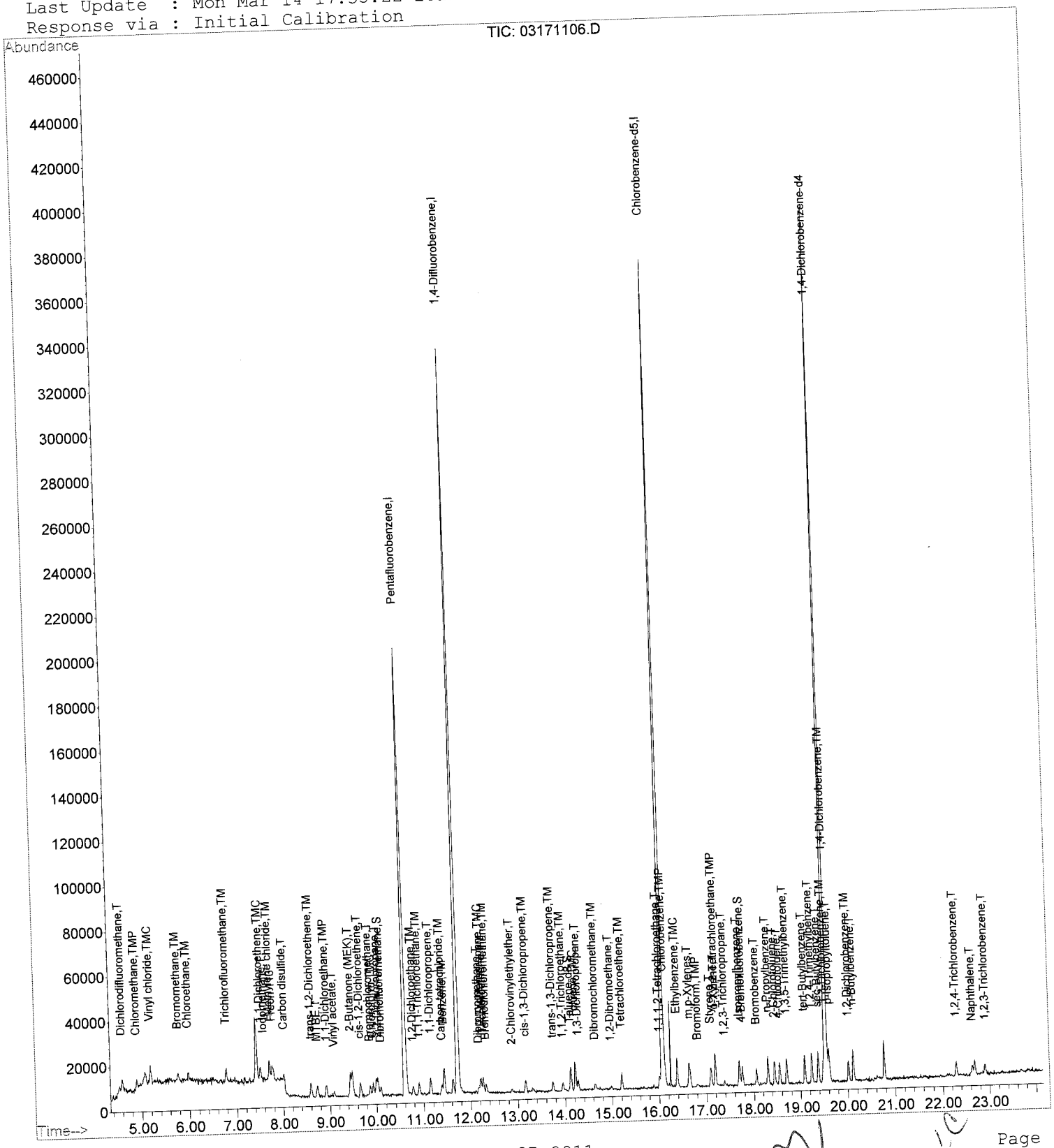
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	0.00	43	0	N.D. d	
44) Dibromochloromethane	14.65	129	2052	0.64 ug/L	84
45) 1,2-Dibromoethane	14.98	107	1293	0.48 ug/L #	76
46) Tetrachloroethene	15.21	166	2392	0.55 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.02	131	2040	0.59 ug/L #	56
48) Chlorobenzene	16.12	112	6227	0.54 ug/L	97
49) Ethylbenzene	16.38	91	11848	0.56 ug/L	94
50) m,p-Xylenes	16.64	106	4453	0.60 ug/L	94
51) Styrene	17.10	104	5086	0.44 ug/L #	77
52) o-Xylene	17.20	106	4214	0.58 ug/L	99
55) Bromoform	16.81	173	803m	0.49 ug/L	
56) 1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L #	96
57) 1,2,3-Trichloropropane	17.38	110	276	0.38 ug/L #	59
58) Isopropylbenzene	17.70	105	9284	0.51 ug/L	98
59) Bromobenzene	18.05	156	1904	0.47 ug/L	85
60) n-Propylbenzene	18.31	91	13033	0.51 ug/L	96
61) 2-Chlorotoluene	18.45	91	8427	0.57 ug/L	93
62) 4-Chlorotoluene	18.56	91	8009	0.54 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	8073	0.52 ug/L	98
64) tert-Butylbenzene	19.09	119	6647	0.50 ug/L	97
65) 1,2,4-Trimethylbenzene	19.24	105	7949	0.51 ug/L	99
66) sec-Butylbenzene	19.38	105	11380	0.51 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L	94
68) 1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L #	87
69) p-Isopropyltoluene	19.61	119	8395	0.48 ug/L	94
70) 1,2-Dichlorobenzene	20.02	146	3885	0.55 ug/L	97
71) n-Butylbenzene	20.11	91	9466	0.49 ug/L	99
72) 1,2-Dibromo-3-chloropropan	0.00	157	0	N.D. d	
73) 1,2,4-Trichlorobenzene	22.29	180	2133	0.42 ug/L	81
74) Naphthalene	22.63	128	4307	0.67 ug/L	100
75) Hexachlorobutadiene	22.69	225	1446	Below Cal #	66
76) 1,2,3-Trichlorobenzene	22.90	180	1936	0.46 ug/L	87

(#) = qualifier out of range (m) = manual integration
03171106.D 031411.M Thu Mar 17 13:56:37 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: 031411.RES

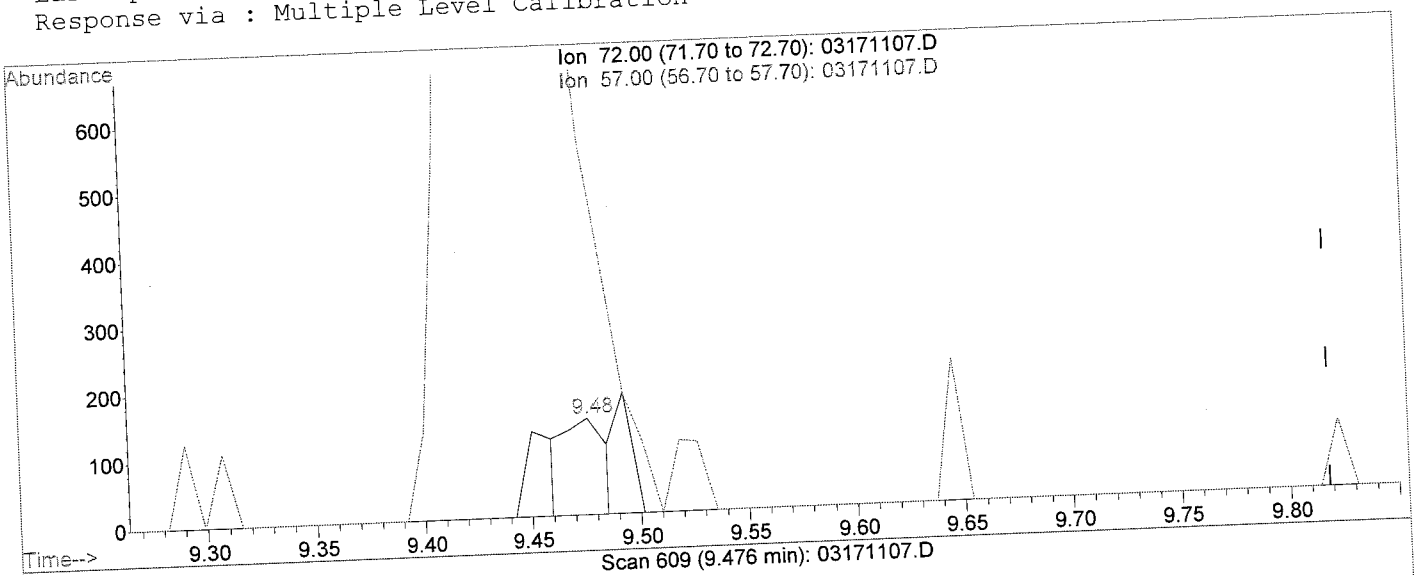
Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration

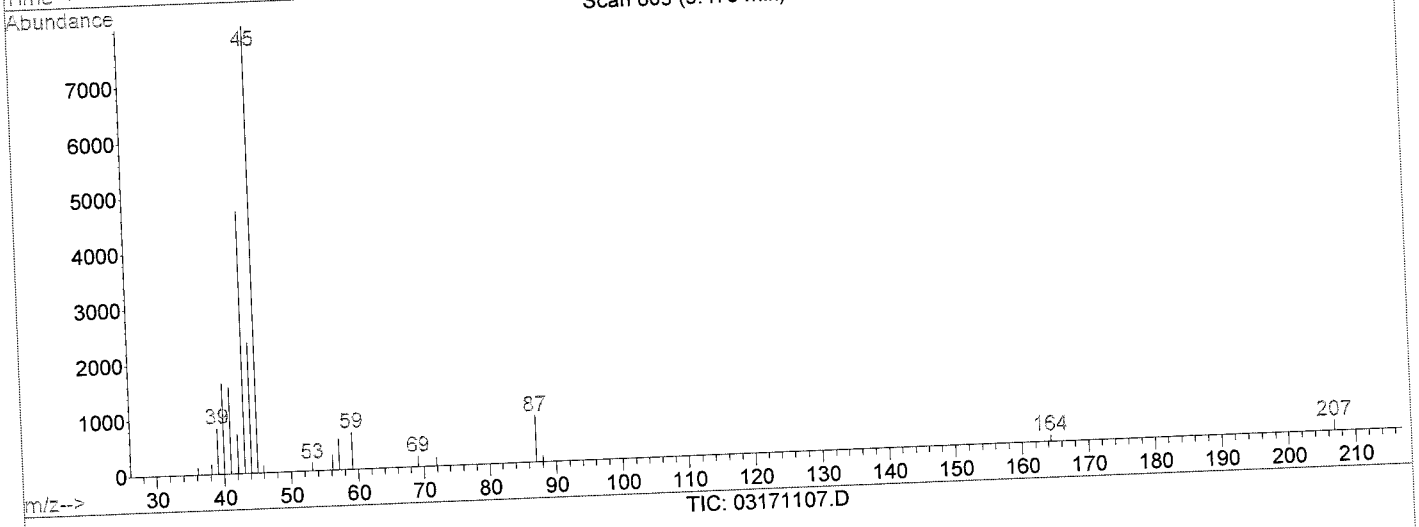


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:56 2011 Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(18) 2-Butanone (MEK) (T)

9.48min 0.69ug/L

response 190

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Before - NIP

MH 3/17/11 LC 03/18/11

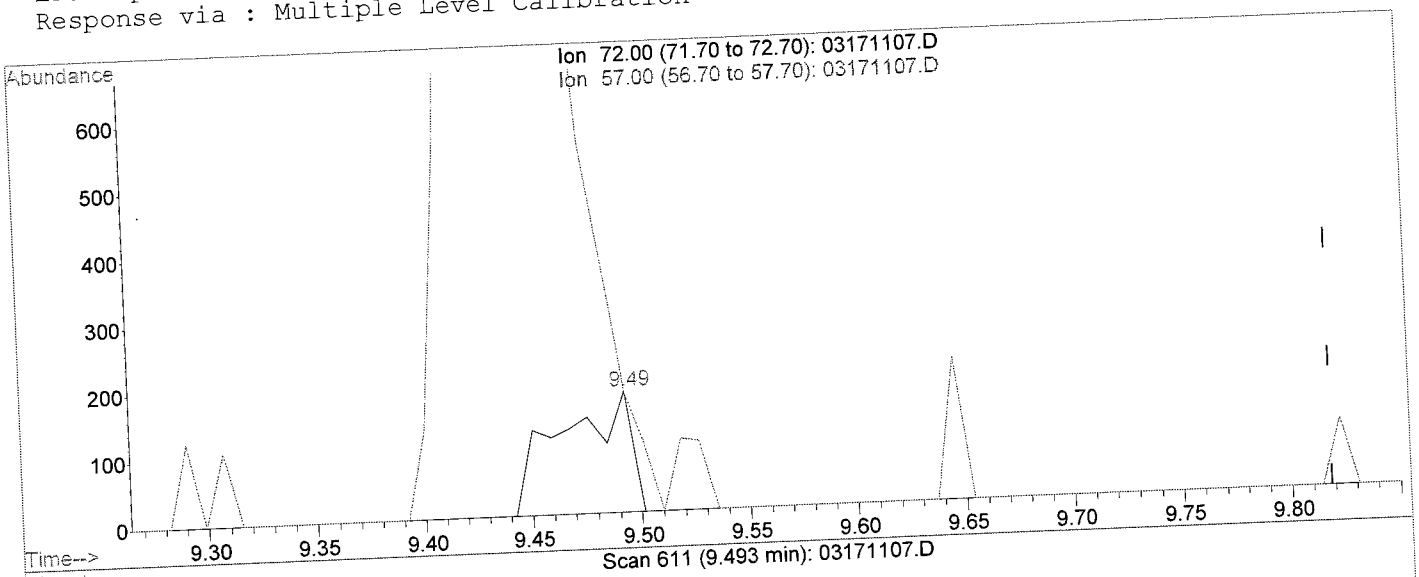
Quantitation Report (Qedit)

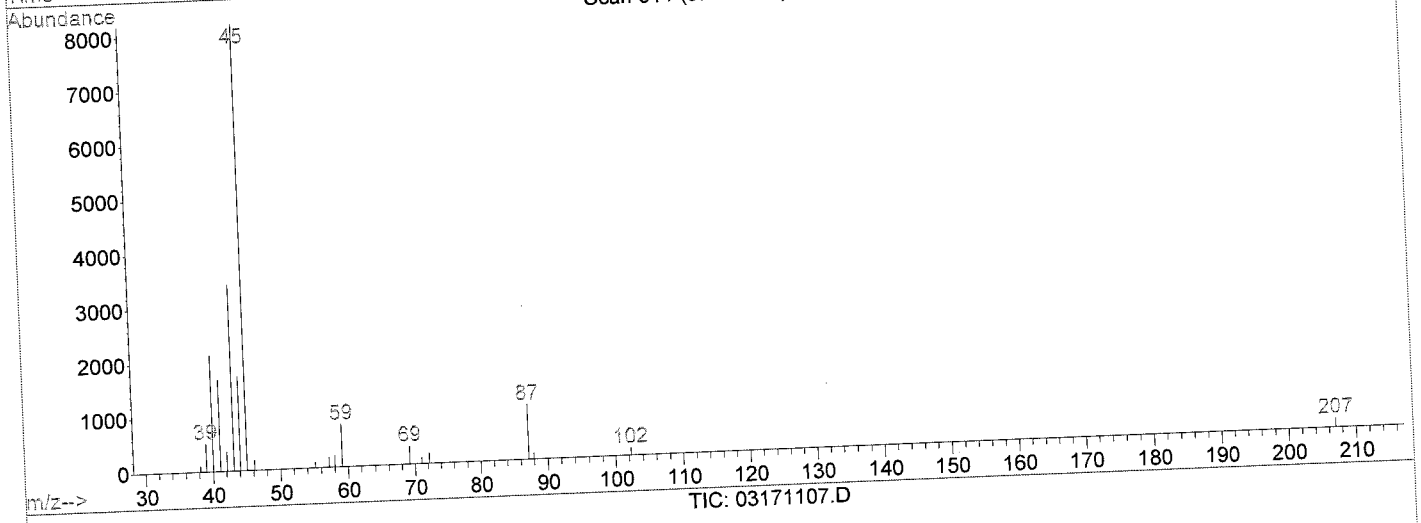
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(18) 2-Butanone (MEK) (T)

9.49min 1.46ug/L m

response 405

Ion	Exp%	Act%
72.00	100	100
57.00	3347.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

After

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	1.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.00%	
39) Toluene-d8	14.12	98	14880	1.07 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.28%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.40%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.94 ug/L	95
3) Chloromethane	4.89	50	11297	1.01 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.07 ug/L #	84
5) Bromomethane	5.77	94	5200	1.07 ug/L	90
6) Chloroethane	5.98	64	6815	1.17 ug/L	90
7) Trichlorofluoromethane	6.77	101	8152	1.00 ug/L	92
8) Acetone	0.00	43	0	N.D. d	
9) Iodomethane	7.57	142	3864	1.02 ug/L #	83
10) 1,1-Dichloroethene	7.51	96	5486	1.05 ug/L	95
11) Methylene chloride	7.70	84	6767	1.24 ug/L	93
12) Freon 113	7.78	101	6284	1.18 ug/L	96
13) Carbon disulfide	8.02	76	17829	0.89 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.20 ug/L	83
15) MTBE	8.73	73	10605	1.24 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.17 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.23 ug/L #	92
18) 2-Butanone (MEK)	9.49	72	405m	1.46 ug/L	
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	96
21) Chloroform	9.93	83	8465	0.98 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.97 ug/L	92
24) 1,2-Dichloroethane	10.78	62	5936	1.16 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.95 ug/L	95
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	94
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.03 ug/L	98
30) Dibromomethane	12.17	93	2529	1.07 ug/L	96
31) 1,2-Dichloropropane	12.21	63	5383	0.97 ug/L #	88
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.97 ug/L	87
34) 2-Chlorovinylethylether	12.86	63	1739	1.28 ug/L #	82
35) cis-1,3-Dichloropropene	13.18	75	6952	0.99 ug/L	94
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.11 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.97 ug/L #	82
40) Toluene	14.22	92	10459	0.94 ug/L	91
42) 1,3-Dichloropropane	14.27	76	5543	0.99 ug/L #	73

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

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 13:57 2011

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

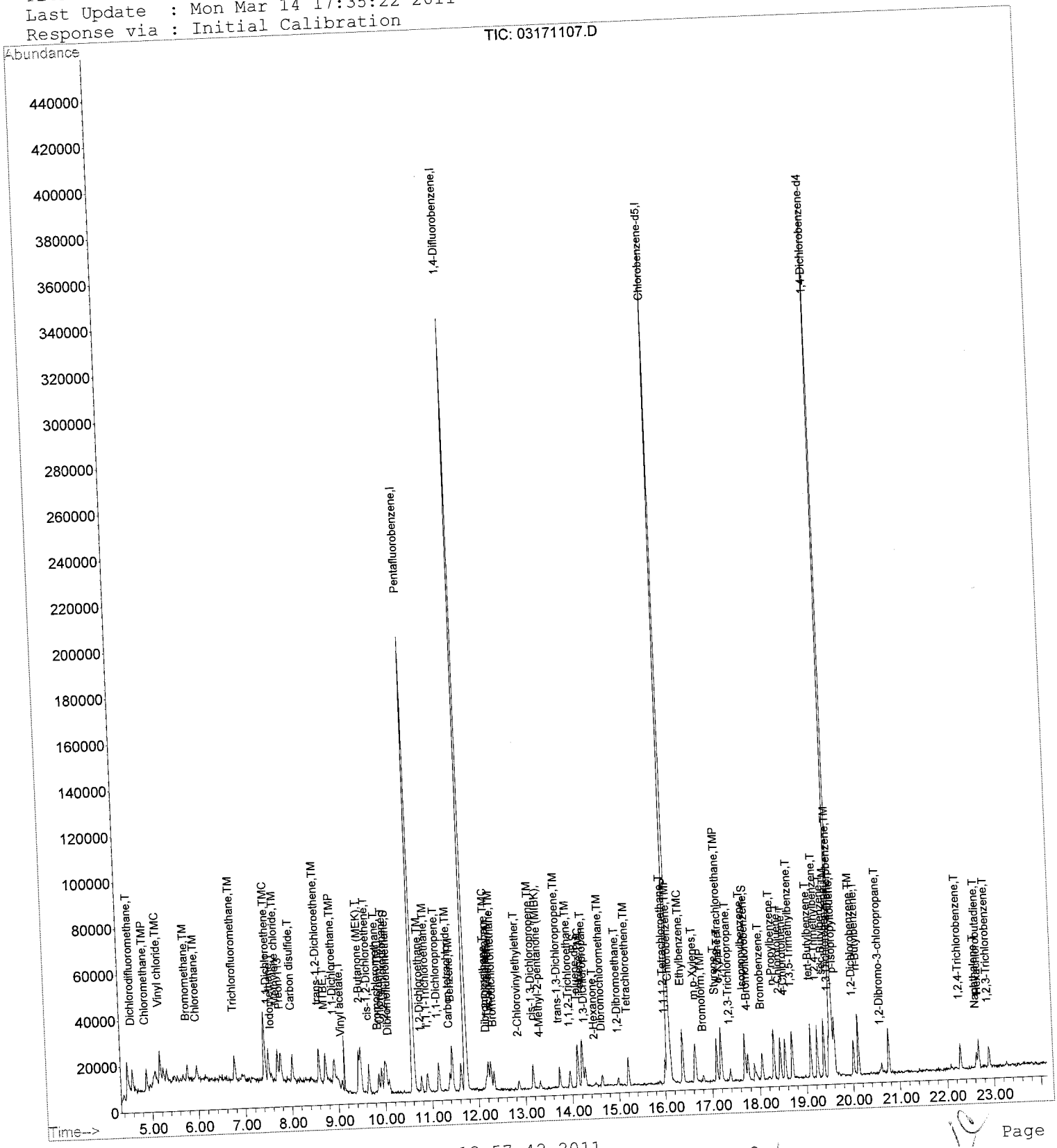
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2515	1.31 ug/L #	77
44) Dibromochloromethane	14.65	129	2863	0.89 ug/L	98
45) 1,2-Dibromoethane	14.98	107	2446	0.90 ug/L #	78
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L	93
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.03 ug/L #	58
48) Chlorobenzene	16.12	112	10976	0.96 ug/L	92
49) Ethylbenzene	16.38	91	20598	0.97 ug/L	99
50) m,p-Xylenes	16.64	106	6910	0.93 ug/L	92
51) Styrene	17.10	104	10355	0.90 ug/L	98
52) o-Xylene	17.20	106	7210	1.00 ug/L	90
55) Bromoform	16.81	173	1545	0.97 ug/L #	72
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L #	89
57) 1,2,3-Trichloropropane	17.38	110	807	1.14 ug/L	98
58) Isopropylbenzene	17.70	105	16311	0.92 ug/L	100
59) Bromobenzene	18.05	156	3839	0.96 ug/L	97
60) n-Propylbenzene	18.30	91	23854	0.96 ug/L	99
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L	96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L	96
64) tert-Butylbenzene	19.09	119	12127	0.94 ug/L	96
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.95 ug/L	100
66) sec-Butylbenzene	19.38	105	21187	0.96 ug/L	97
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L	93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L	98
69) p-Isopropyltoluene	19.61	119	15312	0.90 ug/L	98
70) 1,2-Dichlorobenzene	20.02	146	6687	0.96 ug/L	99
71) n-Butylbenzene	20.11	91	17346	0.92 ug/L	96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.90 ug/L	89
73) 1,2,4-Trichlorobenzene	22.28	180	4683	0.95 ug/L	94
74) Naphthalene	22.63	128	5978	0.95 ug/L	100
75) Hexachlorobutadiene	22.68	225	2850	0.43 ug/L	90
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.84 ug/L	94

(#) = qualifier out of range (m) = manual integration
03171107.D 031411.M Thu Mar 17 13:57:42 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



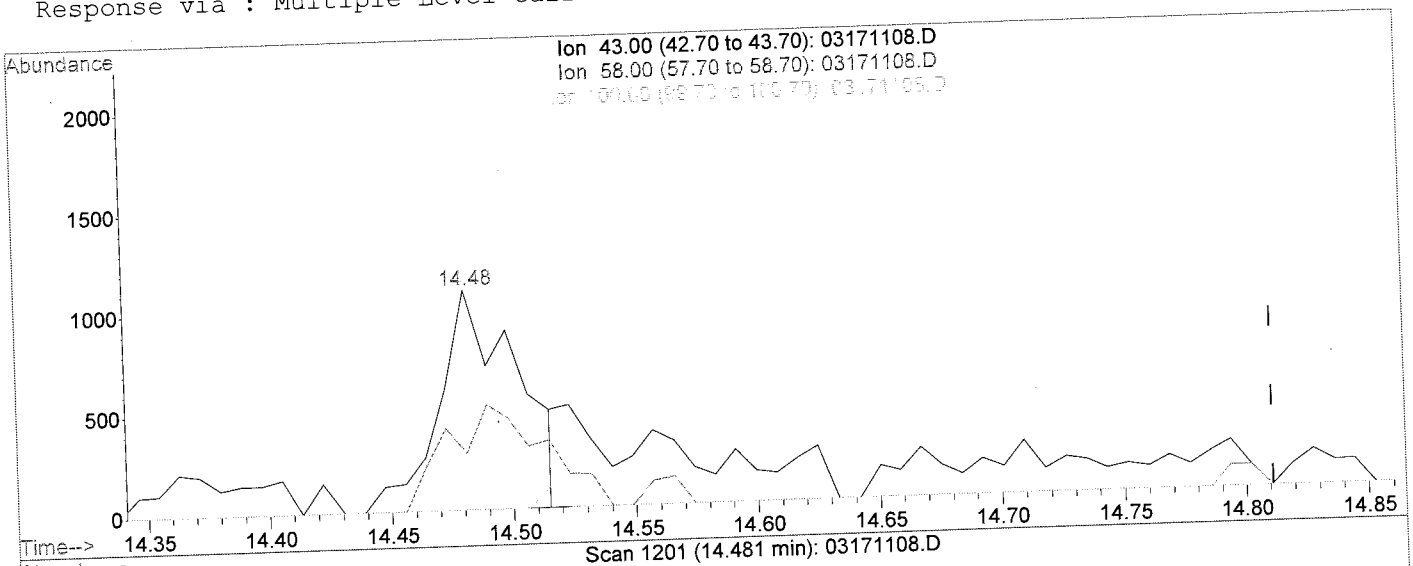
Quantitation Report (Qedit)

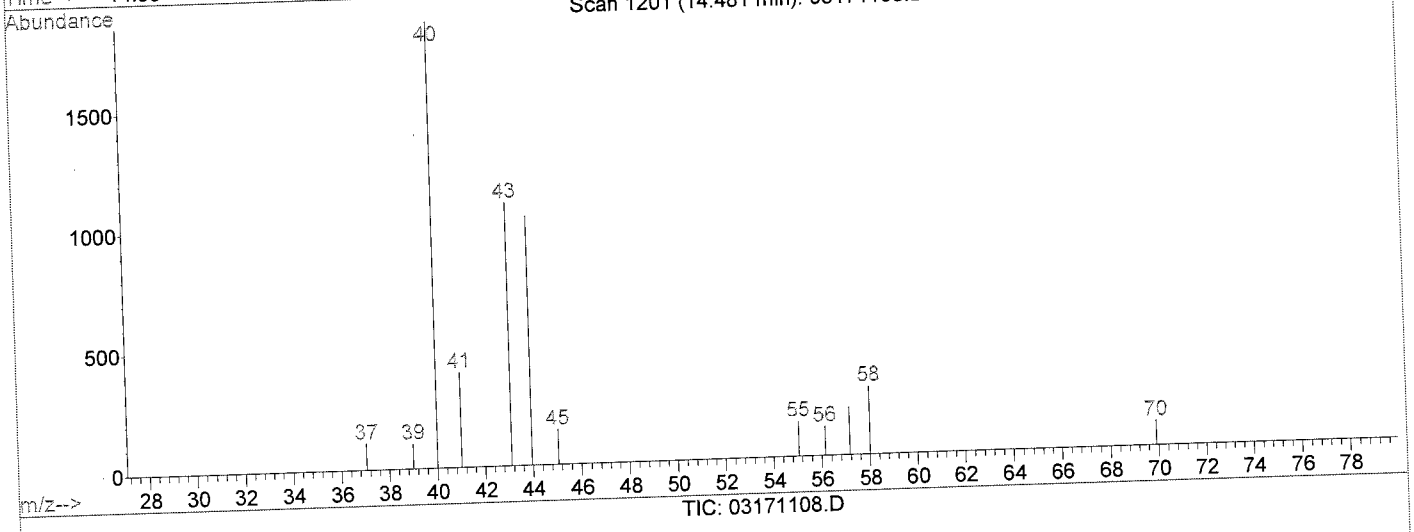
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:57 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(43) 2-Hexanone (T)

14.48min 1.28ug/L

response 2474

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	39.81
100.00	0.00	0.00
0.00	0.00	0.00

Before - NIP

3/18/11 LC 03/18/11

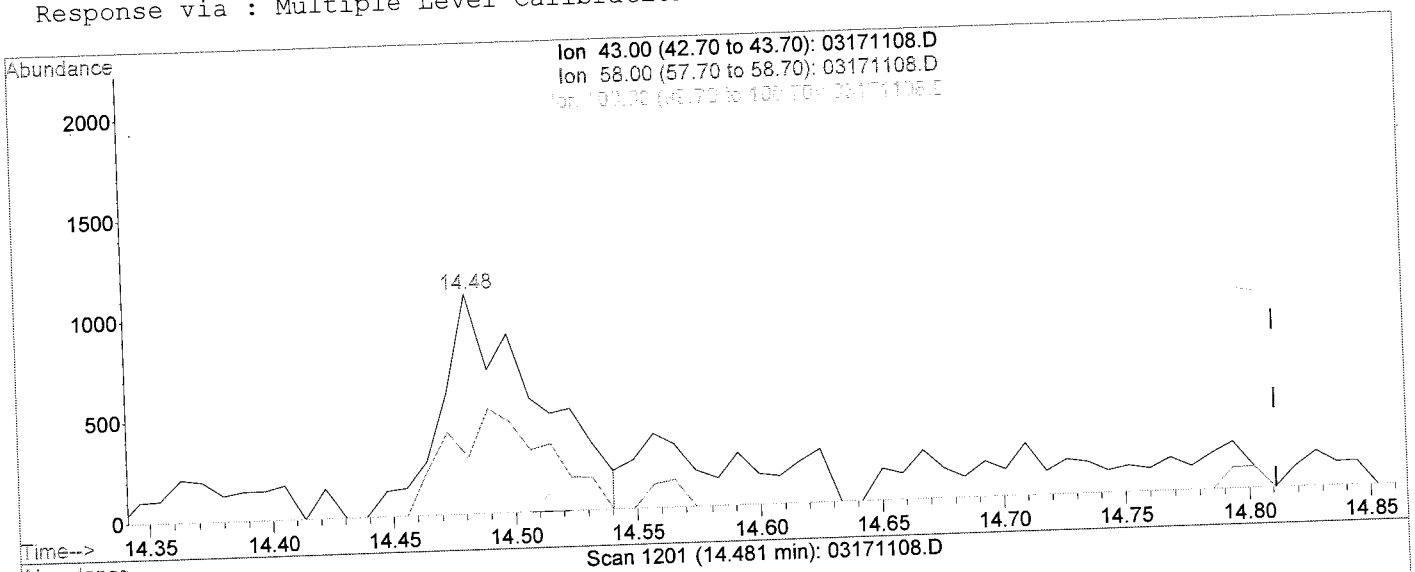
Quantitation Report (Qedit)

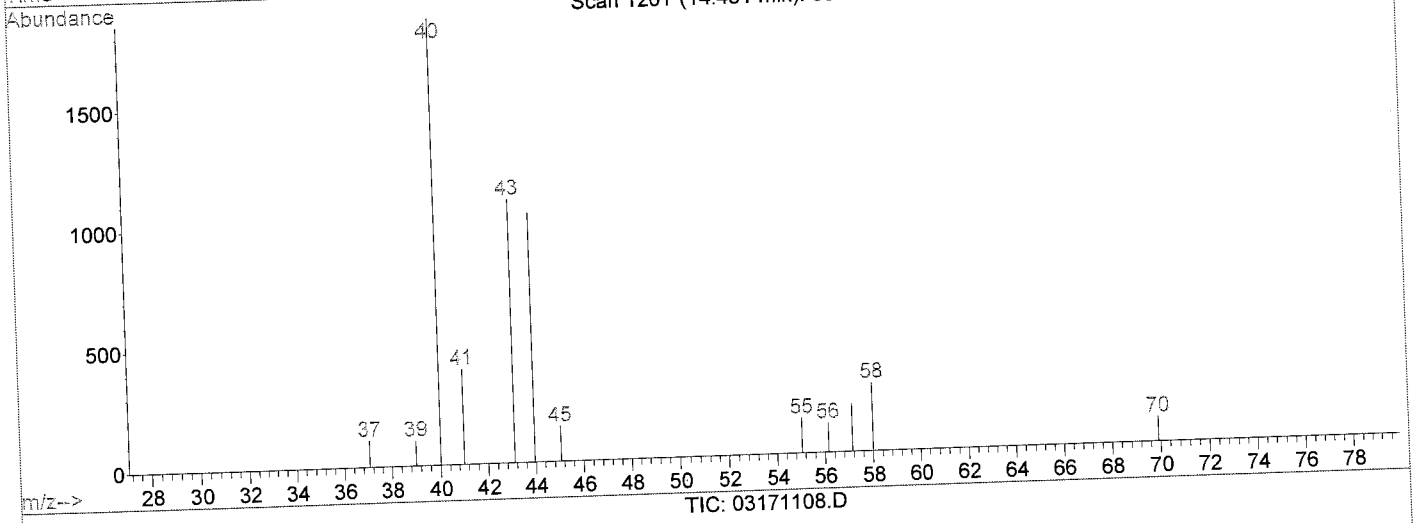
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Multiple Level Calibration





(43) 2-Hexanone (T)

14.48min 1.55ug/L m

response 2999

Ion	Exp%	Act%
43.00	100	100
58.00	43.50	32.84#
100.00	0.00	0.00
0.00	0.00	0.00

After

MJ

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.95 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.80%	
39) Toluene-d8	14.12	98	28802	2.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.16%	
53) 4-Bromofluorobenzene	17.75	95	10411	2.08 ug/L	0.00
Spiked Amount 25.000			Recovery	= 8.32%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.95 ug/L	94
3) Chloromethane	4.89	50	22795	2.00 ug/L	97
4) Vinyl chloride	5.18	62	22297	2.00 ug/L	95
5) Bromomethane	5.77	94	6970	1.41 ug/L	95
6) Chloroethane	5.98	64	11754	1.97 ug/L #	85
7) Trichlorofluoromethane	6.78	101	16143	1.94 ug/L	100
8) Acetone	6.94	43	4997	2.62 ug/L	97
9) Iodomethane	7.57	142	5343	1.38 ug/L	96
10) 1,1-Dichloroethene	7.51	96	8308	1.69 ug/L	98
11) Methylene chloride	7.71	84	10726	1.93 ug/L	97
12) Freon 113	7.77	101	10221	1.89 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.70 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.85 ug/L	97
15) MTBE	8.73	73	16615	1.90 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.93 ug/L	99
17) Vinyl acetate	9.08	43	14566	1.77 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	0.63 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.03 ug/L	91
20) Bromochloromethane	9.88	128	3627	1.82 ug/L	89
21) Chloroform	9.93	83	18162	2.07 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.91 ug/L	96
24) 1,2-Dichloroethane	10.78	62	10721	2.06 ug/L #	94
25) 1,1,1-Trichloroethane	10.91	97	12034	1.83 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	99
28) Carbon tetrachloride	11.38	117	9830	1.86 ug/L	94
29) Benzene	11.44	78	39494	1.97 ug/L	99
30) Dibromomethane	12.17	93	4597	1.92 ug/L	90
31) 1,2-Dichloropropane	12.22	63	10960	1.95 ug/L #	94
32) Trichloroethene	12.27	95	9761	1.93 ug/L	94
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.91 ug/L #	85
35) cis-1,3-Dichloropropene	13.16	75	13465	1.88 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.68 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.85 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.91 ug/L	94
40) Toluene	14.21	92	22811	2.03 ug/L	97
42) 1,3-Dichloropropane	14.28	76	10418	1.86 ug/L	92

(#) = qualifier out of range (m) = manual integration
03171108.D 031411.M Thu Mar 17 13:59:31 2011

3/17/11
03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

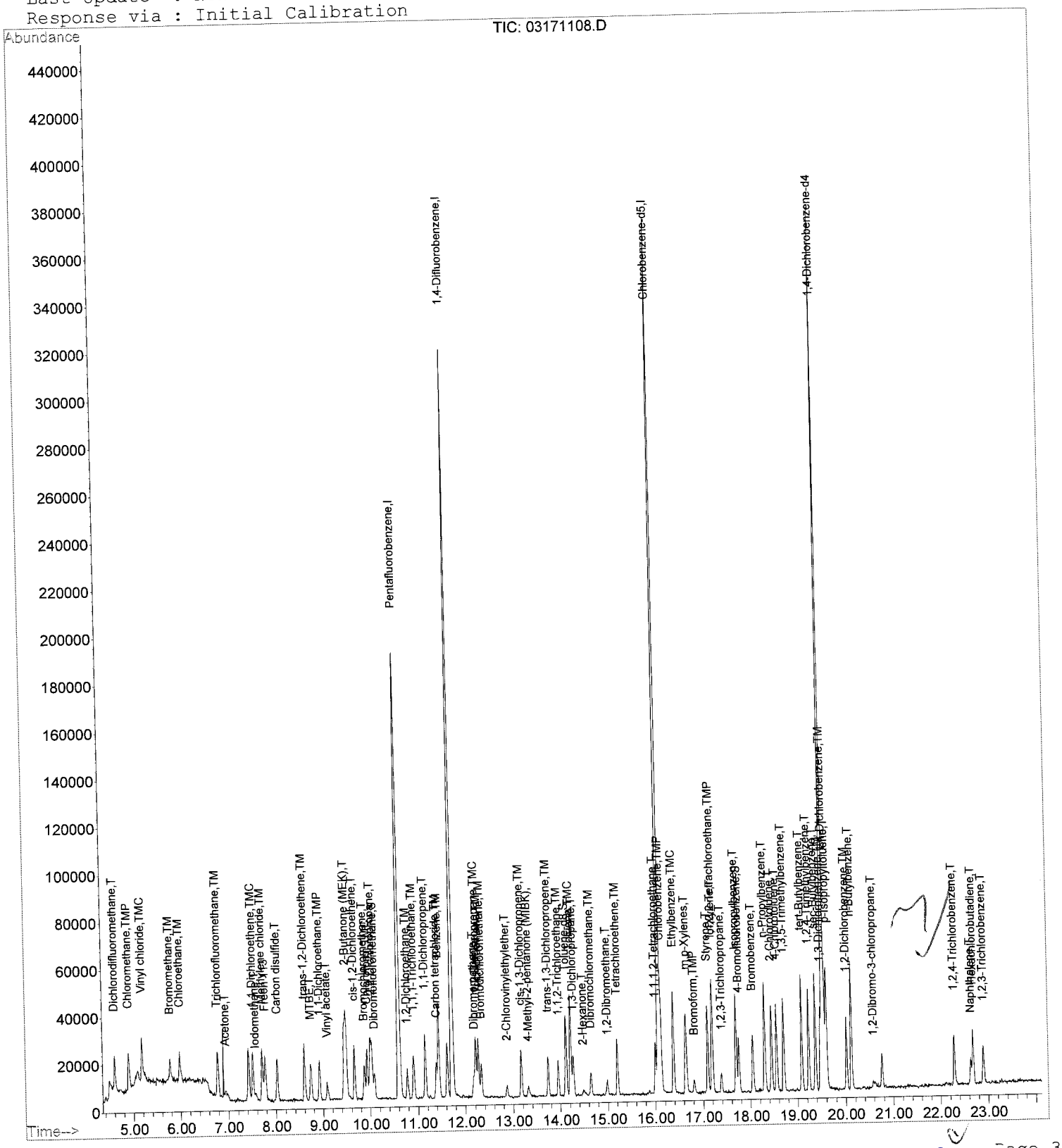
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2999m	1.55 ug/L	
44) Dibromochloromethane	14.65	129	6238	1.94 ug/L	97
45) 1,2-Dibromoethane	14.99	107	5443	1.99 ug/L #	100
46) Tetrachloroethene	15.21	166	8224	1.88 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	6797	1.94 ug/L	95
48) Chlorobenzene	16.12	112	21803	1.89 ug/L	90
49) Ethylbenzene	16.38	91	40622	1.91 ug/L	99
50) m,p-Xylenes	16.64	106	14567	1.95 ug/L	99
51) Styrene	17.09	104	21955	1.91 ug/L	100
52) o-Xylene	17.19	106	14080	1.95 ug/L	98
55) Bromoform	16.81	173	2978	1.87 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L	95
57) 1,2,3-Trichloropropane	17.40	110	1450	2.05 ug/L	99
58) Isopropylbenzene	17.69	105	34246	1.94 ug/L	99
59) Bromobenzene	18.05	156	7927	1.99 ug/L	98
60) n-Propylbenzene	18.30	91	47531	1.91 ug/L	99
61) 2-Chlorotoluene	18.44	91	27642	1.93 ug/L	99
62) 4-Chlorotoluene	18.55	91	28051	1.96 ug/L	99
63) 1,3,5-Trimethylbenzene	18.71	105	28488	1.90 ug/L	97
64) tert-Butylbenzene	19.09	119	24316	1.89 ug/L	95
65) 1,2,4-Trimethylbenzene	19.24	105	29321	1.92 ug/L	96
66) sec-Butylbenzene	19.38	105	43119	1.97 ug/L	96
67) 1,3-Dichlorobenzene	19.48	146	16064	1.97 ug/L	96
68) 1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L	97
69) p-Isopropyltoluene	19.61	119	32053	1.88 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	13744	1.99 ug/L	99
71) n-Butylbenzene	20.12	91	35106	1.86 ug/L	97
72) 1,2-Dibromo-3-chloropropan	20.59	157	972	2.24 ug/L #	75
73) 1,2,4-Trichlorobenzene	22.29	180	8342	1.70 ug/L	96
74) Naphthalene	22.63	128	10824	1.73 ug/L	100
75) Hexachlorobutadiene	22.68	225	5711	1.50 ug/L	98
76) 1,2,3-Trichlorobenzene	22.90	180	7016	1.72 ug/L	94

(#) = qualifier out of range (m) = manual integration
03171108.D 031411.M Thu Mar 17 13:59:31 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D Vial: 5
Acq On : 17 Mar 2011 10:14 am Operator: LC
Sample : 2.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171108.D 031411.M Thu Mar 17 13:59:32 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.84 ug/L	0.00
Spiked Amount 25.000			Recovery	= 23.36%	
39) Toluene-d8	14.12	98	75601	5.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.36%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 21.84%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.56 ug/L	98
3) Chloromethane	4.90	50	69304	6.20 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.46 ug/L	97
5) Bromomethane	5.77	94	23286	4.82 ug/L	97
6) Chloroethane	5.98	64	31380	5.37 ug/L	97
7) Trichlorofluoromethane	6.78	101	44900	5.49 ug/L	98
8) Acetone	6.94	43	8551	5.67 ug/L	96
9) Iodomethane	7.57	142	19144	5.06 ug/L	100
10) 1,1-Dichloroethene	7.51	96	23635	5.45 ug/L	96
11) Methylene chloride	7.71	84	29505	5.41 ug/L	98
12) Freon 113	7.78	101	28220	5.32 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.39 ug/L	89
15) MTBE	8.74	73	47481	5.54 ug/L	98
16) 1,1-Dichloroethane	8.92	63	57409	5.51 ug/L	100
17) Vinyl acetate	9.09	43	45219	5.60 ug/L	97
18) 2-Butanone (MEK)	9.47	72	1224	4.43 ug/L #	38
19) cis-1,2-Dichloroethene	9.66	96	29437	5.59 ug/L	93
20) Bromochloromethane	9.87	128	11063	5.67 ug/L	98
21) Chloroform	9.93	83	49311	5.72 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.50 ug/L	98
24) 1,2-Dichloroethane	10.78	62	29254	5.73 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.44 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.37 ug/L	98
29) Benzene	11.44	78	106054	5.27 ug/L	99
30) Dibromomethane	12.17	93	12758	5.32 ug/L	96
31) 1,2-Dichloropropane	12.21	63	30926	5.49 ug/L	98
32) Trichloroethene	12.26	95	27719	5.47 ug/L	93
33) Bromodichloromethane	12.33	83	32710	5.51 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.30 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	39480	5.52 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	4.84 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.29 ug/L	99
40) Toluene	14.21	92	60380	5.37 ug/L	100
42) 1,3-Dichloropropane	14.27	76	31749	5.61 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171109.D 031411.M Thu Mar 17 14:00:04 2011

M 3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

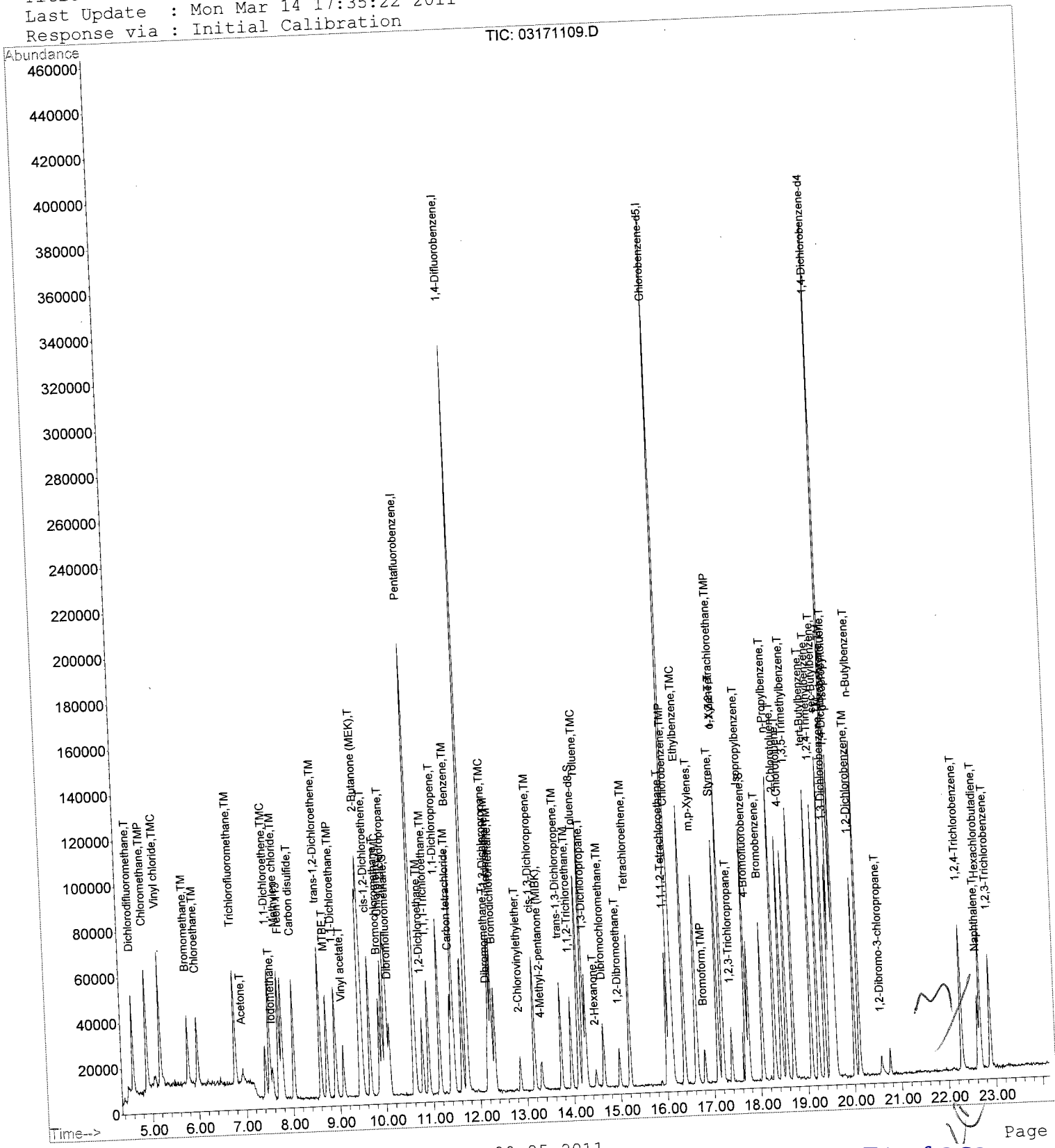
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	10625	5.44 ug/L #	92
44) Dibromochloromethane	14.64	129	17145	5.27 ug/L	98
45) 1,2-Dibromoethane	14.98	107	15883	5.75 ug/L #	97
46) Tetrachloroethene	15.21	166	22589	5.10 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.00	131	18388	5.20 ug/L	97
48) Chlorobenzene	16.12	112	60084	5.16 ug/L	96
49) Ethylbenzene	16.38	91	112334	5.23 ug/L	100
50) m,p-Xylenes	16.64	106	39718	5.25 ug/L	100
51) Styrene	17.09	104	62548	5.37 ug/L	99
52) o-Xylene	17.20	106	38050	5.20 ug/L	99
55) Bromoform	16.81	173	9209	5.63 ug/L	92
56) 1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L	97
57) 1,2,3-Trichloropropane	17.38	110	4203	5.79 ug/L	86
58) Isopropylbenzene	17.69	105	91339	5.05 ug/L	98
59) Bromobenzene	18.05	156	21568	5.28 ug/L	97
60) n-Propylbenzene	18.30	91	134531	5.26 ug/L	97
61) 2-Chlorotoluene	18.45	91	75803	5.15 ug/L	100
62) 4-Chlorotoluene	18.55	91	77070	5.24 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	79213	5.14 ug/L	100
64) tert-Butylbenzene	19.09	119	66536	5.03 ug/L	97
65) 1,2,4-Trimethylbenzene	19.23	105	78965	5.03 ug/L	100
66) sec-Butylbenzene	19.37	105	115485	5.13 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	42641	5.08 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L	97
69) p-Isopropyltoluene	19.60	119	87337	5.00 ug/L	97
70) 1,2-Dichlorobenzene	20.01	146	38242	5.39 ug/L	99
71) n-Butylbenzene	20.12	91	99714	5.16 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	2137	4.80 ug/L	95
73) 1,2,4-Trichlorobenzene	22.28	180	24323	4.82 ug/L	99
74) Naphthalene	22.63	128	32491	5.06 ug/L	100
75) Hexachlorobutadiene	22.68	225	14709	4.71 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	20581	4.91 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031411.M Thu Mar 17 14:00:04 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D Vial: 6
Acq On : 17 Mar 2011 10:45 am Operator: LC
Sample : 5.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 13:59 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.76 ug/L	0.00
Spiked Amount 25.000			Recovery	= 43.04%	
39) Toluene-d8	14.12	98	143321	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 40.72%	
53) 4-Bromofluorobenzene	17.75	95	50923	10.16 ug/L	0.00
Spiked Amount 25.000			Recovery	= 40.64%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	9.93 ug/L	100
3) Chloromethane	4.89	50	135497	11.91 ug/L	99
4) Vinyl chloride	5.19	62	111850	10.07 ug/L	100
5) Bromomethane	5.78	94	53427	10.86 ug/L	91
6) Chloroethane	5.98	64	63788	10.72 ug/L	98
7) Trichlorofluoromethane	6.78	101	85392	10.27 ug/L	99
8) Acetone	6.94	43	11502	8.08 ug/L	97
9) Iodomethane	7.57	142	36401	9.45 ug/L	95
10) 1,1-Dichloroethene	7.51	96	46909	10.89 ug/L	94
11) Methylene chloride	7.71	84	55460	9.98 ug/L	99
12) Freon 113	7.78	101	52409	9.70 ug/L	99
13) Carbon disulfide	8.03	76	162804	10.64 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.90 ug/L	94
15) MTBE	8.74	73	84759	9.71 ug/L	96
16) 1,1-Dichloroethane	8.92	63	108838	10.26 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.96 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	9.44 ug/L	88
19) cis-1,2-Dichloroethene	9.66	96	53573	9.99 ug/L	98
20) Bromochloromethane	9.88	128	20976	10.55 ug/L	100
21) Chloroform	9.93	83	95119	10.84 ug/L	100
22) 2,2-Dichloropropane	10.04	77	73939	10.10 ug/L	98
24) 1,2-Dichloroethane	10.77	62	53618	10.31 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	66517	10.14 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.21 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.31 ug/L	98
29) Benzene	11.44	78	201076	10.05 ug/L	100
30) Dibromomethane	12.17	93	24596	10.31 ug/L	96
31) 1,2-Dichloropropane	12.21	63	55294	9.87 ug/L	100
32) Trichloroethene	12.27	95	49861	9.89 ug/L	98
33) Bromodichloromethane	12.33	83	60334	10.22 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	9.32 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	73950	10.38 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.23 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.24 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	27640	10.13 ug/L	97
40) Toluene	14.21	92	114354	10.22 ug/L	100
42) 1,3-Dichloropropane	14.27	76	56624	10.10 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171110.D 031411.M Thu Mar 17 14:00:50 2011

3/4/11 PM
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

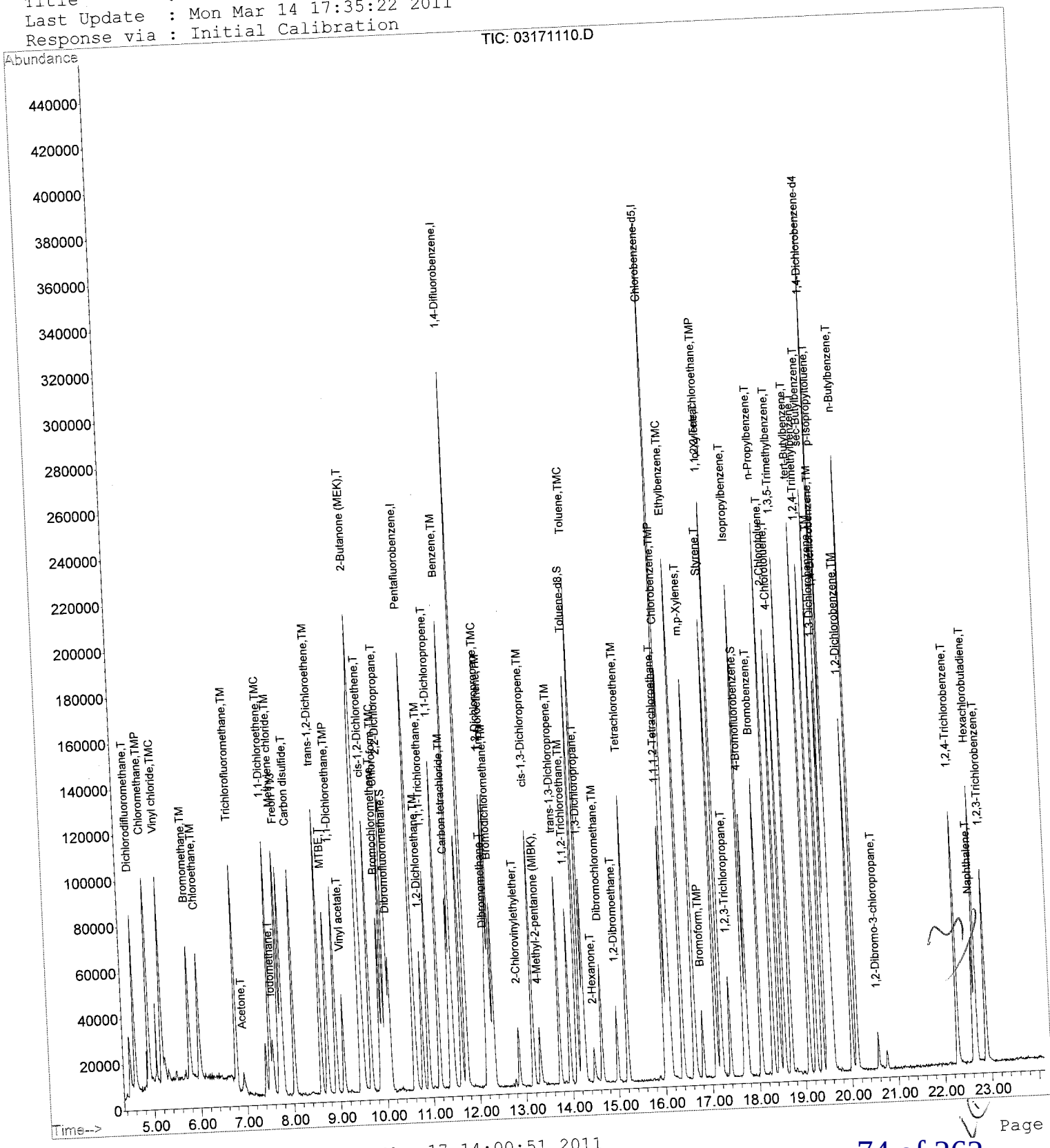
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	17603	9.10 ug/L #	96
44) Dibromochloromethane	14.64	129	32389	10.06 ug/L	100
45) 1,2-Dibromoethane	14.98	107	28536	10.44 ug/L	98
46) Tetrachloroethene	15.21	166	44478	10.14 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	35495	10.14 ug/L	99
48) Chlorobenzene	16.12	112	113625	9.85 ug/L	100
49) Ethylbenzene	16.38	91	215370	10.13 ug/L	100
50) m,p-Xylenes	16.64	106	74201	9.90 ug/L	98
51) Styrene	17.09	104	115227	9.99 ug/L	98
52) o-Xylene	17.20	106	71920	9.92 ug/L	97
55) Bromoform	16.81	173	16316	10.52 ug/L	96
56) 1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L #	99
57) 1,2,3-Trichloropropane	17.39	110	7243	10.53 ug/L	96
58) Isopropylbenzene	17.69	105	176438	10.28 ug/L	100
59) Bromobenzene	18.05	156	40825	10.54 ug/L	98
60) n-Propylbenzene	18.30	91	250684	10.34 ug/L	98
61) 2-Chlorotoluene	18.45	91	143783	10.30 ug/L	100
62) 4-Chlorotoluene	18.55	91	141563	10.15 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	151285	10.35 ug/L	98
64) tert-Butylbenzene	19.09	119	128292	10.22 ug/L	98
65) 1,2,4-Trimethylbenzene	19.23	105	149598	10.05 ug/L	99
66) sec-Butylbenzene	19.37	105	214687	10.06 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	80400	10.10 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L	99
69) p-Isopropyltoluene	19.61	119	168592	10.18 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	69024	10.25 ug/L	99
71) n-Butylbenzene	20.12	91	183374	10.00 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	4643	11.01 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	41924	8.76 ug/L	100
74) Naphthalene	22.63	128	55616	9.13 ug/L	100
75) Hexachlorobutadiene	22.68	225	29027	10.49 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	34759	8.75 ug/L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D Vial: 7
Acq On : 17 Mar 2011 11:15 am Operator: LC
Sample : 10 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	26.41 ug/L	0.00
Spiked Amount 25.000			Recovery	= 105.64%	
39) Toluene-d8	14.12	98	359841	25.92 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.68%	
53) 4-Bromofluorobenzene	17.75	95	128707	25.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 103.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.20 ug/L	98
3) Chloromethane	4.89	50	322628	28.77 ug/L	99
4) Vinyl chloride	5.18	62	283499	25.90 ug/L	100
5) Bromomethane	5.78	94	141242	29.13 ug/L	96
6) Chloroethane	5.98	64	150117	25.60 ug/L	98
7) Trichlorofluoromethane	6.78	101	214158	26.12 ug/L	99
8) Acetone	6.94	43	25928	23.73 ug/L	98
9) Iodomethane	7.57	142	98109	25.84 ug/L	97
10) 1,1-Dichloroethene	7.51	96	111502	26.67 ug/L	98
11) Methylene chloride	7.71	84	132209	24.14 ug/L	99
12) Freon 113	7.77	101	133636	25.10 ug/L	98
13) Carbon disulfide	8.03	76	401884	27.15 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.92 ug/L	98
15) MTBE	8.74	73	214946	24.98 ug/L	99
16) 1,1-Dichloroethane	8.92	63	264682	25.31 ug/L	99
17) Vinyl acetate	9.08	43	202265	24.98 ug/L	99
18) 2-Butanone (MEK)	9.47	72	6903	24.88 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	131490	24.87 ug/L	99
20) Bromochloromethane	9.87	128	47437	24.21 ug/L	94
21) Chloroform	9.93	83	218360	25.26 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	24.96 ug/L	98
24) 1,2-Dichloroethane	10.78	62	136474	26.62 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	162207	25.09 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.70 ug/L	99
28) Carbon tetrachloride	11.39	117	133369	25.74 ug/L	100
29) Benzene	11.44	78	490622	24.87 ug/L	99
30) Dibromomethane	12.17	93	58067	24.68 ug/L	98
31) 1,2-Dichloropropane	12.21	63	140014	25.35 ug/L	99
32) Trichloroethene	12.27	95	124690	25.08 ug/L	98
33) Bromodichloromethane	12.33	83	150764	25.89 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	21.41 ug/L	98
35) cis-1,3-Dichloropropene	13.16	75	183565	26.14 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	23.09 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.77 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	24.66 ug/L	98
40) Toluene	14.21	92	282149	25.56 ug/L	98
42) 1,3-Dichloropropane	14.27	76	140210	25.26 ug/L	98

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

3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

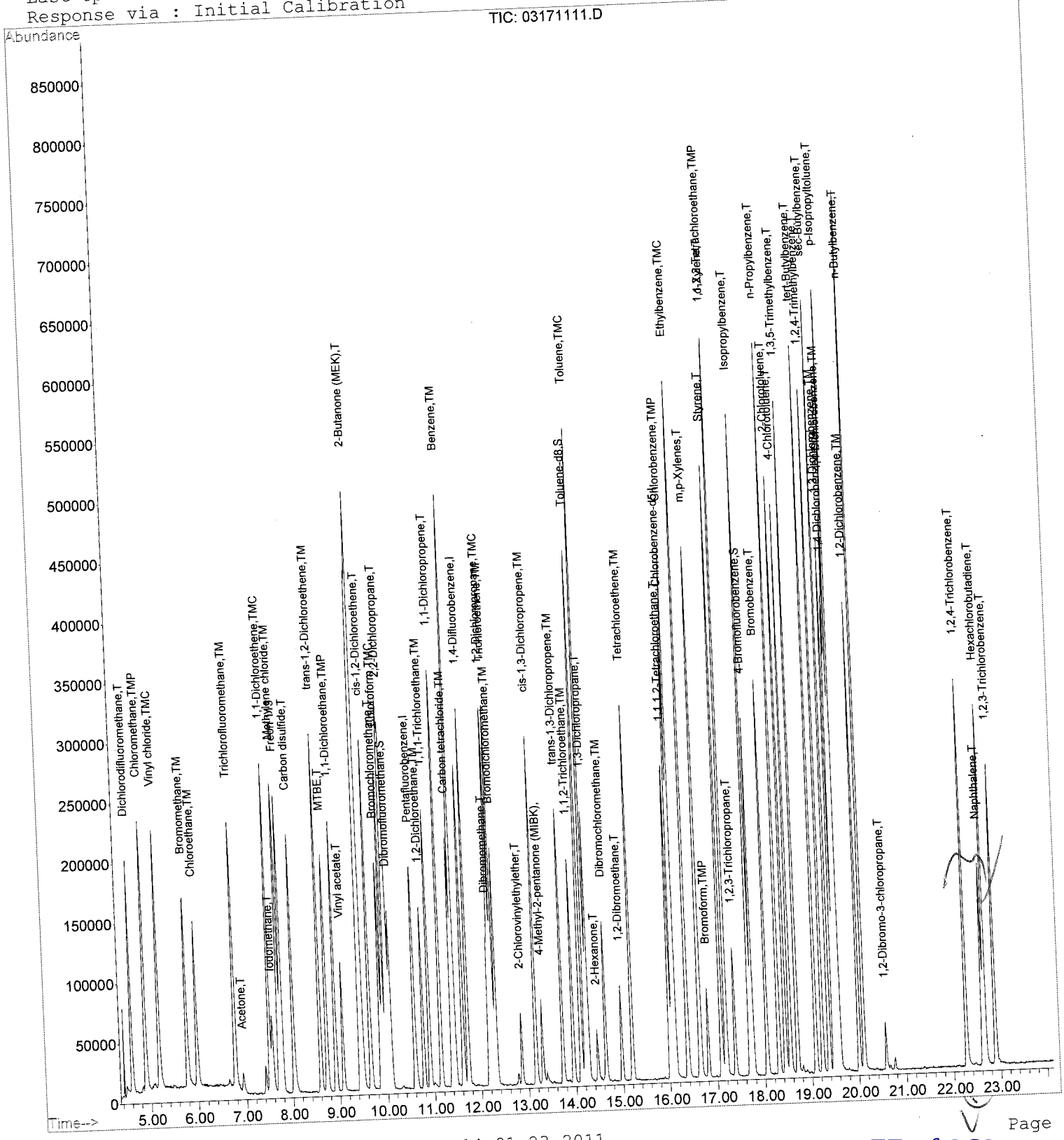
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	44449	23.20 ug/L #	93
44) Dibromochloromethane	14.64	129	81864	25.66 ug/L	99
45) 1,2-Dibromoethane	14.98	107	70424	26.01 ug/L	99
46) Tetrachloroethene	15.21	166	109364	25.16 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	87769	25.31 ug/L	97
48) Chlorobenzene	16.12	112	284407	24.90 ug/L	99
49) Ethylbenzene	16.37	91	538674	25.57 ug/L	99
50) m,p-Xylenes	16.64	106	186494	25.11 ug/L	99
51) Styrene	17.09	104	295005	25.82 ug/L	99
52) o-Xylene	17.19	106	177920	24.79 ug/L	97
55) Bromoform	16.81	173	42372	26.71 ug/L	95
56) 1,1,2,2-Tetrachloroethane	17.18	83	82184	24.99 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	18834	26.78 ug/L	95
58) Isopropylbenzene	17.69	105	445254	25.36 ug/L	100
59) Bromobenzene	18.05	156	105054	26.51 ug/L	98
60) n-Propylbenzene	18.30	91	632559	25.51 ug/L	99
61) 2-Chlorotoluene	18.44	91	364433	25.52 ug/L	100
62) 4-Chlorotoluene	18.55	91	369067	25.87 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	381972	25.55 ug/L	100
64) tert-Butylbenzene	19.09	119	324112	25.26 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	382900	25.14 ug/L	99
66) sec-Butylbenzene	19.37	105	556785	25.52 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	205642	25.27 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	201942	24.80 ug/L	99
69) p-Isopropyltoluene	19.61	119	434002	25.61 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	178826	25.97 ug/L	99
71) n-Butylbenzene	20.12	91	487367	26.00 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	11318	26.23 ug/L	95
73) 1,2,4-Trichlorobenzene	22.28	180	122376	25.01 ug/L	99
74) Naphthalene	22.63	128	163821	26.30 ug/L	100
75) Hexachlorobutadiene	22.69	225	76790	28.14 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	101564	24.99 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031411.M Thu Mar 17 14:01:22 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D Vial: 8
Acq On : 17 Mar 2011 11:46 am Operator: LC
Sample : 25 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:00 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011 Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	49.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 196.48%	
39) Toluene-d8	14.11	98	726789	50.32 ug/L	0.00
Spiked Amount 25.000			Recovery	= 201.28%	
53) 4-Bromofluorobenzene	17.76	95	259969	50.54 ug/L	0.00
Spiked Amount 25.000			Recovery	= 202.16%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	46.88 ug/L	100
3) Chloromethane	4.90	50	687656	58.35 ug/L	100
4) Vinyl chloride	5.18	62	596978	51.89 ug/L	98
5) Bromomethane	5.78	94	296252	58.13 ug/L	98
6) Chloroethane	5.99	64	300876	48.83 ug/L	97
7) Trichlorofluoromethane	6.78	101	340516	39.53 ug/L	98
8) Acetone	6.93	43	44278	Below Cal	99
9) Iodomethane	7.58	142	195341	48.96 ug/L	99
10) 1,1-Dichloroethene	7.52	96	220268	50.38 ug/L	97
11) Methylene chloride	7.71	84	264019	45.88 ug/L	99
12) Freon 113	7.78	101	262900	47.00 ug/L	99
13) Carbon disulfide	8.03	76	807912	52.24 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.50 ug/L	98
15) MTBE	8.73	73	407385	45.06 ug/L	98
16) 1,1-Dichloroethane	8.92	63	517515	47.09 ug/L	100
17) Vinyl acetate	9.08	43	400997	47.13 ug/L	100
18) 2-Butanone (MEK)	9.47	72	13656	46.83 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	257331	46.32 ug/L	99
20) Bromochloromethane	9.87	128	96376	46.81 ug/L	98
21) Chloroform	9.93	83	424654	46.74 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.12 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	48.57 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	323769	47.65 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.22 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	49.71 ug/L	100
29) Benzene	11.44	78	1008066	49.11 ug/L	99
30) Dibromomethane	12.17	93	116662	47.65 ug/L	97
31) 1,2-Dichloropropane	12.21	63	281688	49.02 ug/L	99
32) Trichloroethene	12.26	95	255144	49.32 ug/L	98
33) Bromodichloromethane	12.33	83	300337	49.57 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	37.02 ug/L	99
35) cis-1,3-Dichloropropene	13.17	75	364674	49.91 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	44.54 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.71 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	47.11 ug/L	97
40) Toluene	14.22	92	583744	50.83 ug/L	100
42) 1,3-Dichloropropane	14.27	76	277506	48.23 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171112.D 031411.M Thu Mar 17 14:02:05 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:01 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

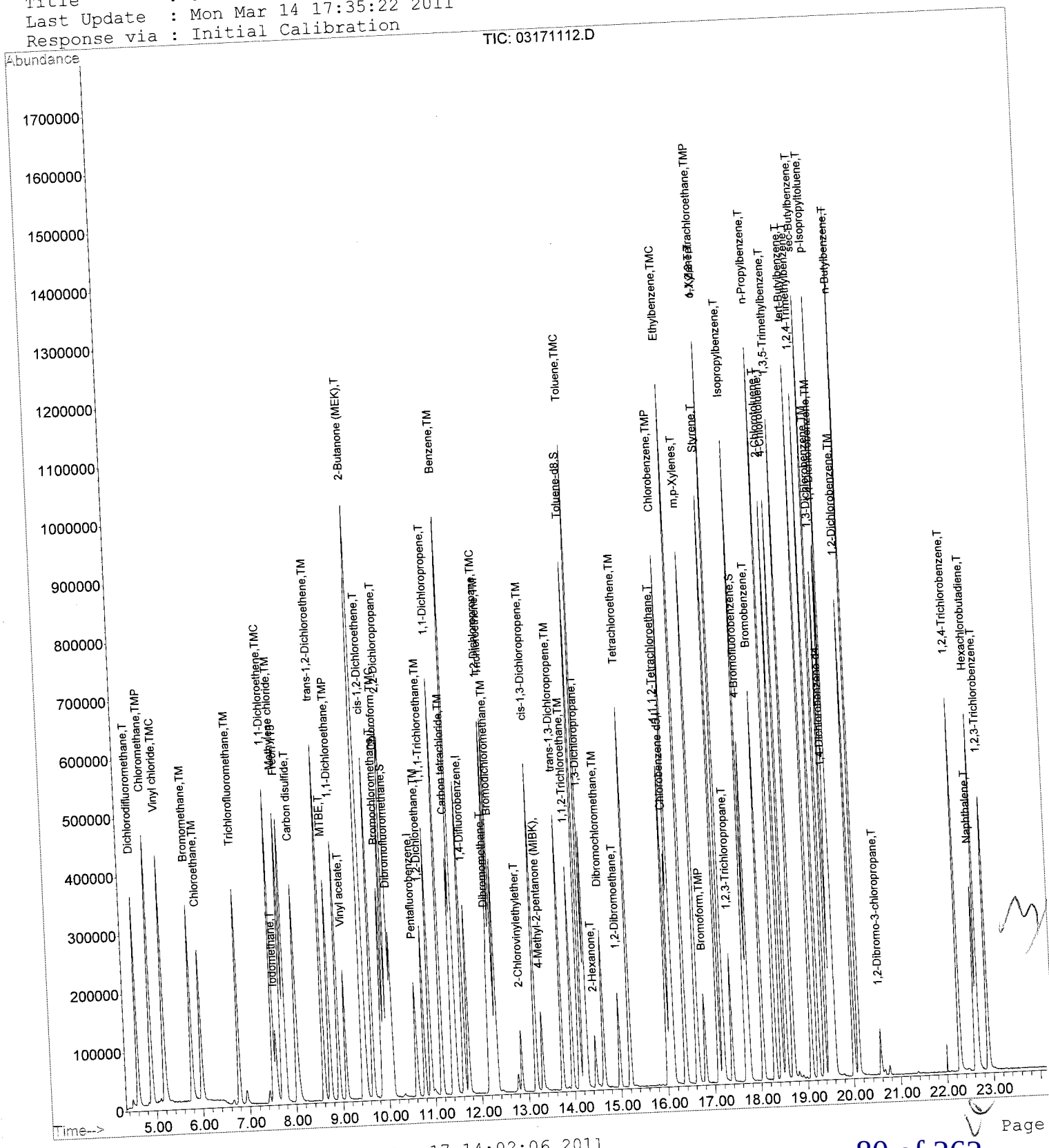
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	48.63 ug/L #	100
44) Dibromochloromethane	14.65	129	168655	51.01 ug/L	99
45) 1,2-Dibromoethane	14.98	107	142279	50.69 ug/L	99
46) Tetrachloroethene	15.20	166	223148	49.54 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	50.19 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.72 ug/L	99
49) Ethylbenzene	16.38	91	1095906	50.20 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.92 ug/L	97
51) Styrene	17.10	104	602783	50.90 ug/L	100
52) o-Xylene	17.20	106	366193	49.22 ug/L	100
55) Bromoform	16.82	173	87491	53.39 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.00 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	51.09 ug/L	99
58) Isopropylbenzene	17.70	105	904235	49.87 ug/L	99
59) Bromobenzene	18.05	156	210716	51.49 ug/L	98
60) n-Propylbenzene	18.30	91	1279523	49.95 ug/L	99
61) 2-Chlorotoluene	18.45	91	736550	49.95 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.28 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.43 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	49.92 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	772492	49.11 ug/L	98
66) sec-Butylbenzene	19.38	105	1121222	49.75 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	414698	49.34 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	411367	48.92 ug/L	99
69) p-Isopropyltoluene	19.61	119	866615	49.52 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	50.59 ug/L	100
71) n-Butylbenzene	20.11	91	964633	49.82 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	50.62 ug/L	96
73) 1,2,4-Trichlorobenzene	22.28	180	240360	47.56 ug/L	100
74) Naphthalene	22.63	128	314469	48.88 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	53.99 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	192513	45.85 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171112.D 031411.M Thu Mar 17 14:02:06 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D Vial: 9
Acq On : 17 Mar 2011 12:17 pm Operator: LC
Sample : 50 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 14:01 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	101.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 407.72%	
39) Toluene-d8	14.12	98	1505447	102.12 ug/L	0.00
Spiked Amount 25.000			Recovery	= 408.48%	
53) 4-Bromofluorobenzene	17.75	95	536695	104.44 ug/L	0.00
Spiked Amount 25.000			Recovery	= 417.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	92.13 ug/L	100
3) Chloromethane	4.90	50	1431368	119.80 ug/L	100
4) Vinyl chloride	5.18	62	1228117	105.30 ug/L	100
5) Bromomethane	5.78	94	641424	124.14 ug/L	98
6) Chloroethane	5.98	64	584071	93.50 ug/L	98
7) Trichlorofluoromethane	6.78	101	698452	79.96 ug/L	99
8) Acetone	6.94	43	84316	Below Cal	99
9) Iodomethane	7.58	142	393011	97.15 ug/L	96
10) 1,1-Dichloroethene	7.52	96	450680	101.96 ug/L	97
11) Methylene chloride	7.71	84	530536	90.93 ug/L	100
12) Freon 113	7.78	101	537890	94.84 ug/L	100
13) Carbon disulfide	8.04	76	1652598	105.75 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.91 ug/L	95
15) MTBE	8.74	73	859812	93.80 ug/L	100
16) 1,1-Dichloroethane	8.93	63	1054794	94.66 ug/L	100
17) Vinyl acetate	9.08	43	827230	95.91 ug/L	100
18) 2-Butanone (MEK)	9.47	72	27904	94.38 ug/L	95
19) cis-1,2-Dichloroethene	9.66	96	527963	93.73 ug/L	99
20) Bromochloromethane	9.87	128	191014	91.51 ug/L	99
21) Chloroform	9.93	83	877382	95.25 ug/L	99
22) 2,2-Dichloropropane	10.04	77	739530	96.19 ug/L	100
24) 1,2-Dichloroethane	10.78	62	540824	99.03 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	659685	95.75 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.61 ug/L	99
28) Carbon tetrachloride	11.39	117	547122	99.42 ug/L	100
29) Benzene	11.44	78	2051183	97.90 ug/L	100
30) Dibromomethane	12.17	93	236182	94.51 ug/L	98
31) 1,2-Dichloropropane	12.21	63	573859	97.85 ug/L	99
32) Trichloroethene	12.27	95	518186	98.14 ug/L	98
33) Bromodichloromethane	12.33	83	619726	100.21 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	69.01 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	755768	101.34 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	94.02 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.90 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	95.51 ug/L	97
40) Toluene	14.22	92	1181672	100.81 ug/L	100
42) 1,3-Dichloropropane	14.27	76	562918	97.92 ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

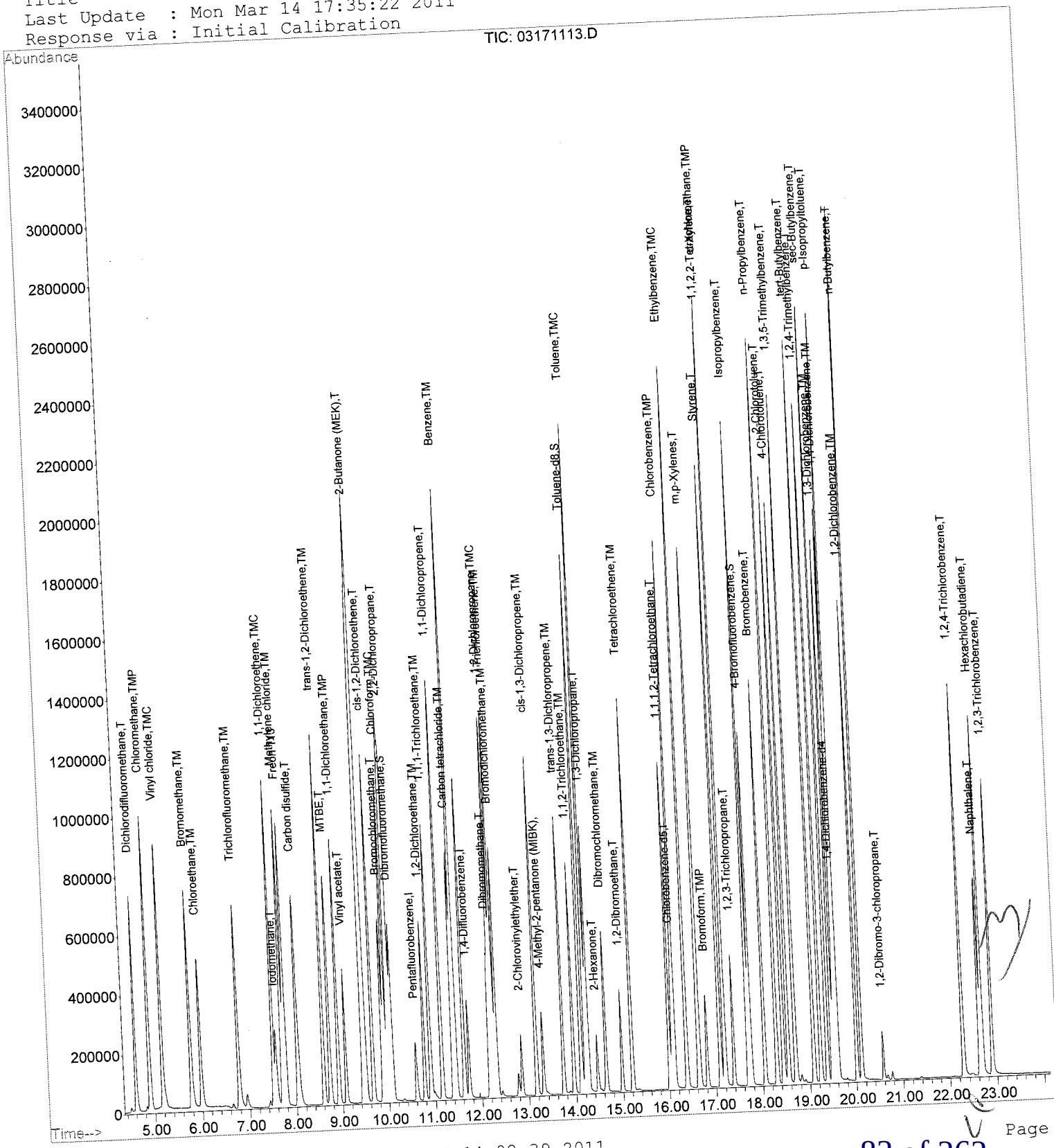
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	203381	102.53 ug/L #	97
44) Dibromochloromethane	14.65	129	341882	103.49 ug/L	99
45) 1,2-Dibromoethane	14.98	107	294156	104.89 ug/L	100
46) Tetrachloroethene	15.20	166	455622	101.24 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	371997	103.59 ug/L	98
48) Chlorobenzene	16.12	112	1190206	100.63 ug/L	99
49) Ethylbenzene	16.38	91	2245318	102.94 ug/L	99
50) m,p-Xylenes	16.64	106	773283	100.56 ug/L	99
51) Styrene	17.10	104	1244691	105.20 ug/L	100
52) o-Xylene	17.20	106	750628	100.99 ug/L	100
55) Bromoform	16.82	173	182147	107.85 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	341207	97.48 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	75618	101.00 ug/L	99
58) Isopropylbenzene	17.70	105	1844526	98.70 ug/L	100
59) Bromobenzene	18.05	156	429425	101.80 ug/L	99
60) n-Propylbenzene	18.30	91	2615929	99.09 ug/L	100
61) 2-Chlorotoluene	18.45	91	1500663	98.74 ug/L	99
62) 4-Chlorotoluene	18.55	91	1492720	98.30 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	1584063	99.53 ug/L	99
64) tert-Butylbenzene	19.09	119	1344278	98.40 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	1578520	97.37 ug/L	98
66) sec-Butylbenzene	19.39	105	2280043	98.16 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	847018	97.78 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	846913	97.72 ug/L	99
69) p-Isopropyltoluene	19.61	119	1785874	99.02 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	731103	99.76 ug/L	100
71) n-Butylbenzene	20.12	91	1981760	99.31 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	45883	99.91 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	510699	98.06 ug/L	98
74) Naphthalene	22.63	128	678287	102.29 ug/L	100
75) Hexachlorobutadiene	22.69	225	316227	110.66 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	412634	95.36 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171113.D 031411.M Thu Mar 17 14:02:38 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011 Quant Results File: 031411.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	839626	197.42 ug/L	0.00
Spiked Amount 25.000			Recovery	= 789.68%	
39) Toluene-d8	14.12	98	3013932	203.78 ug/L	0.00
Spiked Amount 25.000			Recovery	= 815.12%	
53) 4-Bromofluorobenzene	17.76	95	1038923	199.04 ug/L	0.00
Spiked Amount 25.000			Recovery	= 796.16%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	172.44 ug/L	99
3) Chloromethane	4.90	50	2913054	239.06 ug/L	100
4) Vinyl chloride	5.16	62	2428967	204.20 ug/L	99
5) Bromomethane	5.78	94	1343422	254.94 ug/L	99
6) Chloroethane	5.98	64	1199344	188.24 ug/L	98
7) Trichlorofluoromethane	6.79	101	1701514	191.01 ug/L	99
8) Acetone	6.94	43	201529	Below Cal	100
9) Iodomethane	7.58	142	794173	192.50 ug/L	99
10) 1,1-Dichloroethene	7.52	96	920511	204.48 ug/L	96
11) Methylene chloride	7.71	84	1063508	178.73 ug/L	98
12) Freon 113	7.78	101	1079115	186.56 ug/L	99
13) Carbon disulfide	8.03	76	3312605	208.15 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	187.33 ug/L	96
15) MTBE	8.74	73	1719756	183.97 ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	185.27 ug/L	99
17) Vinyl acetate	9.08	43	1660788	188.79 ug/L	100
18) 2-Butanone (MEK)	9.47	72	57153	189.53 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	186.86 ug/L	98
20) Bromochloromethane	9.88	128	361702	169.90 ug/L	98
21) Chloroform	9.93	83	1746080	185.86 ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	184.71 ug/L	99
24) 1,2-Dichloroethane	10.78	62	1056987	189.77 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	1325051	188.58 ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.90 ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	197.81 ug/L	100
29) Benzene	11.45	78	4061777	193.23 ug/L	100
30) Dibromomethane	12.17	93	461244	183.97 ug/L	99
31) 1,2-Dichloropropane	12.21	63	1126863	191.52 ug/L	99
32) Trichloroethene	12.27	95	1022222	192.97 ug/L	99
33) Bromodichloromethane	12.33	83	1217593	196.24 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	120.61 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	1495017	199.81 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	183.63 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.49 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	187.01 ug/L	98
40) Toluene	14.22	92	2368495	201.40 ug/L	100
42) 1,3-Dichloropropane	14.28	76	1107954	189.75 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171114.D 031411.M Thu Mar 17 14:03:08 2011

M 3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:02 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031411.RES

Quant Method : C:\HPCHEM\1...\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

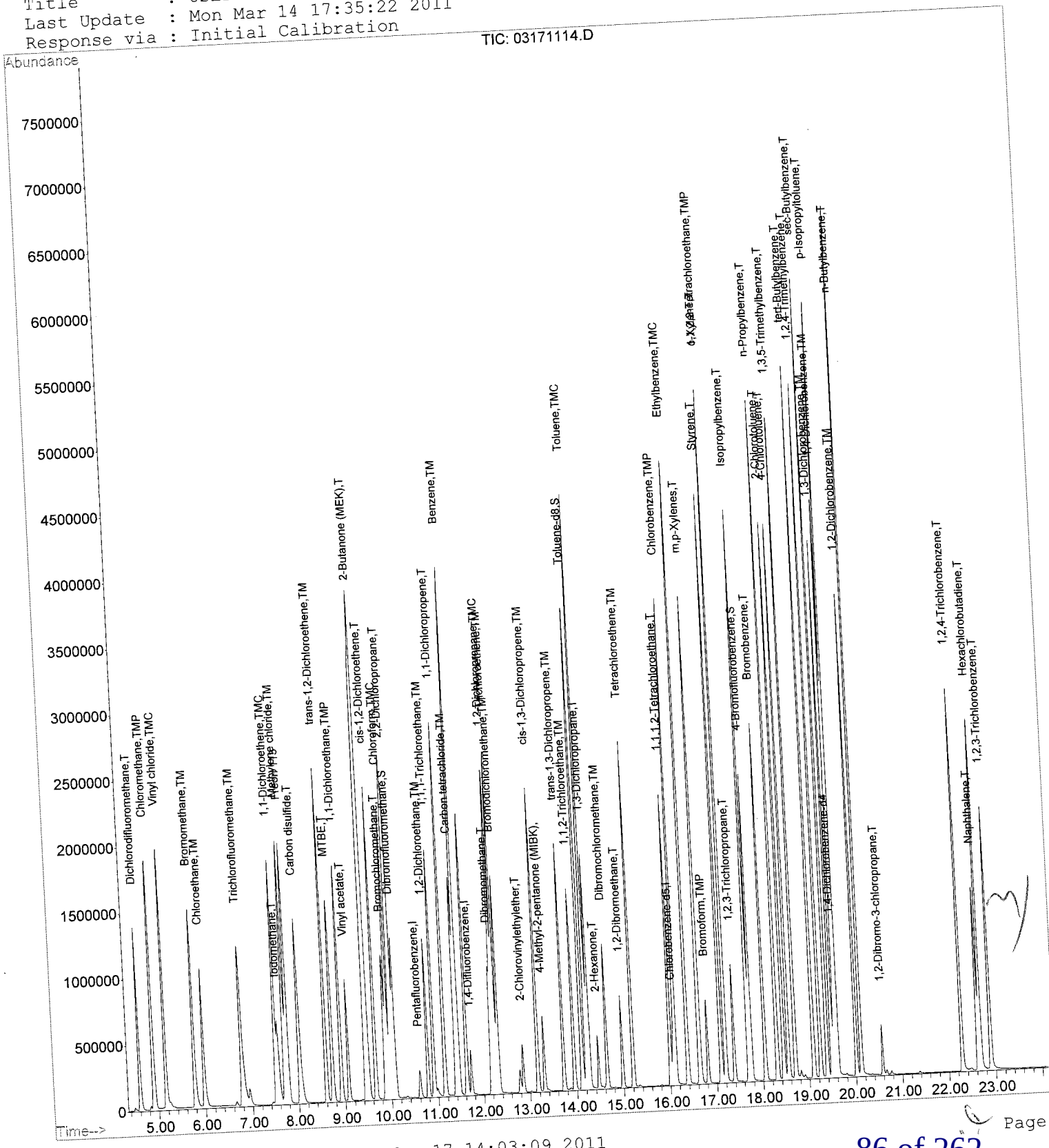
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	396743	196.91 ug/L #	97
44) Dibromochloromethane	14.65	129	686033	204.44 ug/L	100
45) 1,2-Dibromoethane	14.99	107	575405	202.00 ug/L	99
46) Tetrachloroethene	15.20	166	914229	199.99 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.02	131	755965	207.25 ug/L	99
48) Chlorobenzene	16.13	112	2393108	199.20 ug/L	97
49) Ethylbenzene	16.38	91	4465000	201.54 ug/L	98
50) m,p-Xylenes	16.64	106	1550944	198.56 ug/L	99
51) Styrene	17.10	104	2561762	213.16 ug/L	99
52) o-Xylene	17.20	106	1517247	200.97 ug/L	100
55) Bromoform	16.82	173	364089	189.30 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.19	83	656346	164.64 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	155202	182.01 ug/L	98
58) Isopropylbenzene	17.70	105	3655213	171.73 ug/L	99
59) Bromobenzene	18.05	156	865850	180.23 ug/L	97
60) n-Propylbenzene	18.31	91	5305462	176.46 ug/L	99
61) 2-Chlorotoluene	18.45	91	3128722	180.76 ug/L	99
62) 4-Chlorotoluene	18.56	91	3203621	185.25 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	3485140	192.28 ug/L	99
64) tert-Butylbenzene	19.09	119	2997423	192.66 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	3435108	186.05 ug/L	97
66) sec-Butylbenzene	19.39	105	5038432	190.46 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	1885851	191.15 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	1902798	192.79 ug/L	99
69) p-Isopropyltoluene	19.61	119	4021709	195.79 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	1645465	197.15 ug/L	100
71) n-Butylbenzene	20.12	91	4374192	192.47 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	102361	195.71 ug/L	97
73) 1,2,4-Trichlorobenzene	22.28	180	1107731	186.75 ug/L	98
74) Naphthalene	22.63	128	1413680	187.19 ug/L	100
75) Hexachlorobutadiene	22.69	225	688401	212.10 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	830638	168.55 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171114.D 031411.M Thu Mar 17 14:03:09 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031411.RES
Quant Time: Mar 17 14:02 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031411.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Mon Mar 14 17:35:22 2011
Response via : Initial Calibration



03171114.D 031411.M Thu Mar 17 14:03:09 2011

NEW8260-CCV

Data File Name	03171115.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\031711\
Operator	LC
Date Acquired	3/17/2011 1:50
Acq. Method File	8260B
Sample Name	SS
Instrument Name	GCMS7

Internal Standard	**Target Response**	**CCV Response**	**Low**	**High**	**T/F**
Pentafluorobenzene	204788	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	354603	291205	145602.5	582410	TRUE
Chlorobenzene-d5	296499	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	131216	112264	56132	224528	TRUE

Name	**Amount**	**Spike Amount**	**% REC**	**Low**	**High**	**T/F**	
Dichlorodifluoromethane	21.34	25.00	85.36	60	150	TRUE	
Chloromethane	20.19	25.00	80.77	60	140	TRUE	
Vinyl chloride	21.98	25.00	87.90	80	120	TRUE	CCC
Bromomethane	21.20	25.00	84.79	70	140	TRUE	
Chloroethane	21.91	25.00	87.64	70	130	TRUE	
Trichlorofluoromethane	25.44	25.00	101.76	70	150	TRUE	
Acetone	32.58	25.00	130.32	10	150	TRUE	
Iodomethane	30.91	25.00	123.66	70	140	TRUE	
1,1-Dichloroethene	24.98	25.00	99.91	80	120	TRUE	CCC
Methylene chloride	24.09	25.00	96.37	70	120	TRUE	
Freon 113	24.00	25.00	95.98	60	140	TRUE	
Carbon disulfide	25.08	25.00	100.31	70	130	TRUE	
trans-1,2-Dichloroethene	21.70	25.00	86.79	80	120	TRUE	
MTBE	20.73	25.00	82.90	70	130	TRUE	
1,1-Dichloroethane	20.79	25.00	83.16	70	125	TRUE	
Vinyl acetate	26.90	25.00	107.60	40	150	TRUE	
2-Butanone (MEK)	24.92	25.00	99.67	40	150	TRUE	
cis-1,2-Dichloroethene	20.20	25.00	80.78	80	120	TRUE	
Bromochloromethane	21.09	25.00	84.35	80	120	TRUE	
Chloroform	20.32	25.00	81.28	80	120	TRUE	CCC
2,2-Dichloropropane	21.15	25.00	84.60	80	130	TRUE	
Dibromofluoromethane	**21.57**	**25.00**	**86.27**	**80**	**120**	TRUE	
1,2-Dichloroethane	20.57	25.00	82.26	75	130	TRUE	
1,1,1-Trichloroethane	21.81	25.00	87.23	80	120	TRUE	
1,1-Dichloropropene	22.05	25.00	88.19	80	120	TRUE	
Carbon tetrachloride	22.49	25.00	89.96	80	130	TRUE	
Benzene	21.24	25.00	84.94	80	120	TRUE	
Dibromomethane	22.05	25.00	88.19	80	120	TRUE	
1,2-Dichloropropane	21.44	25.00	85.74	80	120	TRUE	CCC
Trichloroethene	21.49	25.00	85.98	80	120	TRUE	
Bromodichloromethane	21.49	25.00	85.95	80	120	TRUE	
2-Chlorovinylethylether	33.03	25.00	132.10	70	135	TRUE	
cis-1,3-Dichloropropene	21.67	25.00	86.67	80	120	TRUE	
4-Methyl-2-pentanone (MIB	23.62	25.00	94.48	60	130	TRUE	
trans-1,3-Dichloropropene	22.74	25.00	90.94	80	125	TRUE	

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1,1,2-Trichloroethane	22.20	25.00	88.81	80	120	TRUE	
Toluene-d8	**21.91**	**25.00**	**87.66**	**80**	**120**	TRUE	
Toluene	21.78	25.00	87.14	80	120	TRUE	CCC
1,3-Dichloropropane	21.05	25.00	84.20	80	120	TRUE	
2-Hexanone	25.08	25.00	100.33	20	150	TRUE	
Dibromochloromethane	21.71	25.00	86.84	80	120	TRUE	
1,2-Dibromoethane	22.31	25.00	89.25	80	120	TRUE	
Tetrachloroethene	22.09	25.00	88.37	70	130	TRUE	
1,1,1,2-Tetrachloroethane	21.46	25.00	85.82	80	120	TRUE	
Chlorobenzene	21.76	25.00	87.05	80	120	TRUE	
Ethylbenzene	21.51	25.00	86.06	80	120	TRUE	CCC
m,p-Xylenes	21.31	25.00	85.25	60	140	TRUE	
Styrene	23.00	25.00	92.00	80	120	TRUE	
o-Xylene	20.70	25.00	82.81	80	120	TRUE	
4-Bromofluorobenzene	**20.94**	**25.00**	**83.76**	**80**	**120**	TRUE	
Bromoform	24.45	25.00	97.79	80	120	TRUE	
1,1,2,2-Tetrachloroethane	23.28	25.00	93.12	80	120	TRUE	
1,2,3-Trichloropropane	23.38	25.00	93.50	70	130	TRUE	
Isopropylbenzene	25.73	25.00	102.90	80	130	TRUE	
Bromobenzene	24.00	25.00	96.00	80	120	TRUE	
n-Propylbenzene	24.01	25.00	96.04	75	130	TRUE	
2-Chlorotoluene	22.31	25.00	89.23	80	120	TRUE	
4-Chlorotoluene	23.19	25.00	92.75	80	120	TRUE	
1,3,5-Trimethylbenzene	23.39	25.00	93.56	80	130	TRUE	
tert-Butylbenzene	23.30	25.00	93.19	80	120	TRUE	
1,2,4-Trimethylbenzene	23.52	25.00	94.06	80	120	TRUE	
sec-Butylbenzene	22.94	25.00	91.76	80	125	TRUE	
1,3-Dichlorobenzene	22.83	25.00	91.30	80	120	TRUE	
1,4-Dichlorobenzene	22.81	25.00	91.26	80	120	TRUE	
p-Isopropyltoluene	23.58	25.00	94.31	80	130	TRUE	
1,2-Dichlorobenzene	22.83	25.00	91.31	80	120	TRUE	
n-Butylbenzene	23.80	25.00	95.22	80	130	TRUE	
1,2-Dibromo-3-chloropropa	24.52	25.00	98.10	50	150	TRUE	
1,2,4-Trichlorobenzene	25.88	25.00	103.53	50	150	TRUE	
Naphthalene	30.38	25.00	121.52	40	150	TRUE	
Hexachlorobutadiene	24.16	25.00	96.62	40	150	TRUE	
1,2,3-Trichlorobenzene	25.60	25.00	102.42	60	140	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	204788	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	354603	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	296499	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131216	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	111142	21.57 ug/L	0.00
Spiked Amount 25.000			Recovery = 86.28%		
39) Toluene-d8	14.12	98	391936	21.91 ug/L	0.00
Spiked Amount 25.000			Recovery = 87.64%		
53) 4-Bromofluorobenzene	17.75	95	136070	20.94 ug/L	0.00
Spiked Amount 25.000			Recovery = 83.76%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.61	85	206452	21.34 ug/L	99
3) Chloromethane	4.90	50	322987	20.19 ug/L	98
4) Vinyl chloride	5.19	62	312968	21.98 ug/L	100
5) Bromomethane	5.78	94	156914	21.20 ug/L	98
6) Chloroethane	5.99	64	165417	21.91 ug/L	99
7) Trichlorofluoromethane	6.79	101	251907	25.44 ug/L	99
8) Acetone	6.94	43	38773	32.58 ug/L	98
9) Iodomethane	7.58	142	141683	30.91 ug/L	98
10) 1,1-Dichloroethene	7.52	96	144273	24.98 ug/L	98
11) Methylene chloride	7.72	84	163712	24.09 ug/L	99
12) Freon 113	7.78	101	164091	24.00 ug/L	99
13) Carbon disulfide	8.04	76	515335	25.08 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	138660	21.70 ug/L	94
15) MTBE	8.75	73	226347	20.73 ug/L	99
16) 1,1-Dichloroethane	8.92	63	277166	20.79 ug/L	99
17) Vinyl acetate	9.08	43	278544	26.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	7971	24.92 ug/L	55
19) cis-1,2-Dichloroethene	9.67	96	133655	20.20 ug/L	99
20) Bromochloromethane	9.88	128	51073	21.09 ug/L	97
21) Chloroform	9.94	83	223530	20.32 ug/L	99
22) 2,2-Dichloropropane	10.04	77	188645	21.15 ug/L	97
24) 1,2-Dichloroethane	10.78	62	138066	20.57 ug/L	100
25) 1,1,1-Trichloroethane	10.92	97	172274	21.81 ug/L	97
27) 1,1-Dichloropropene	11.15	75	200126	22.05 ug/L	99
28) Carbon tetrachloride	11.39	117	140957	22.49 ug/L	99
29) Benzene	11.44	78	515367	21.24 ug/L	100
30) Dibromomethane	12.18	93	63306	22.05 ug/L	98
31) 1,2-Dichloropropane	12.22	63	145297	21.44 ug/L	100
32) Trichloroethene	12.27	95	130435	21.49 ug/L	100
33) Bromodichloromethane	12.34	83	153079	21.49 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	40803	33.03 ug/L	98
35) cis-1,3-Dichloropropene	13.17	75	187370	21.67 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	83668	23.62 ug/L	99
37) trans-1,3-Dichloropropene	13.74	75	151736	22.74 ug/L	100
38) 1,1,2-Trichloroethane	13.96	83	71241	22.20 ug/L	98
40) Toluene	14.22	92	300558	21.78 ug/L	97
42) 1,3-Dichloropropane	14.27	76	141234	21.05 ug/L	96

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

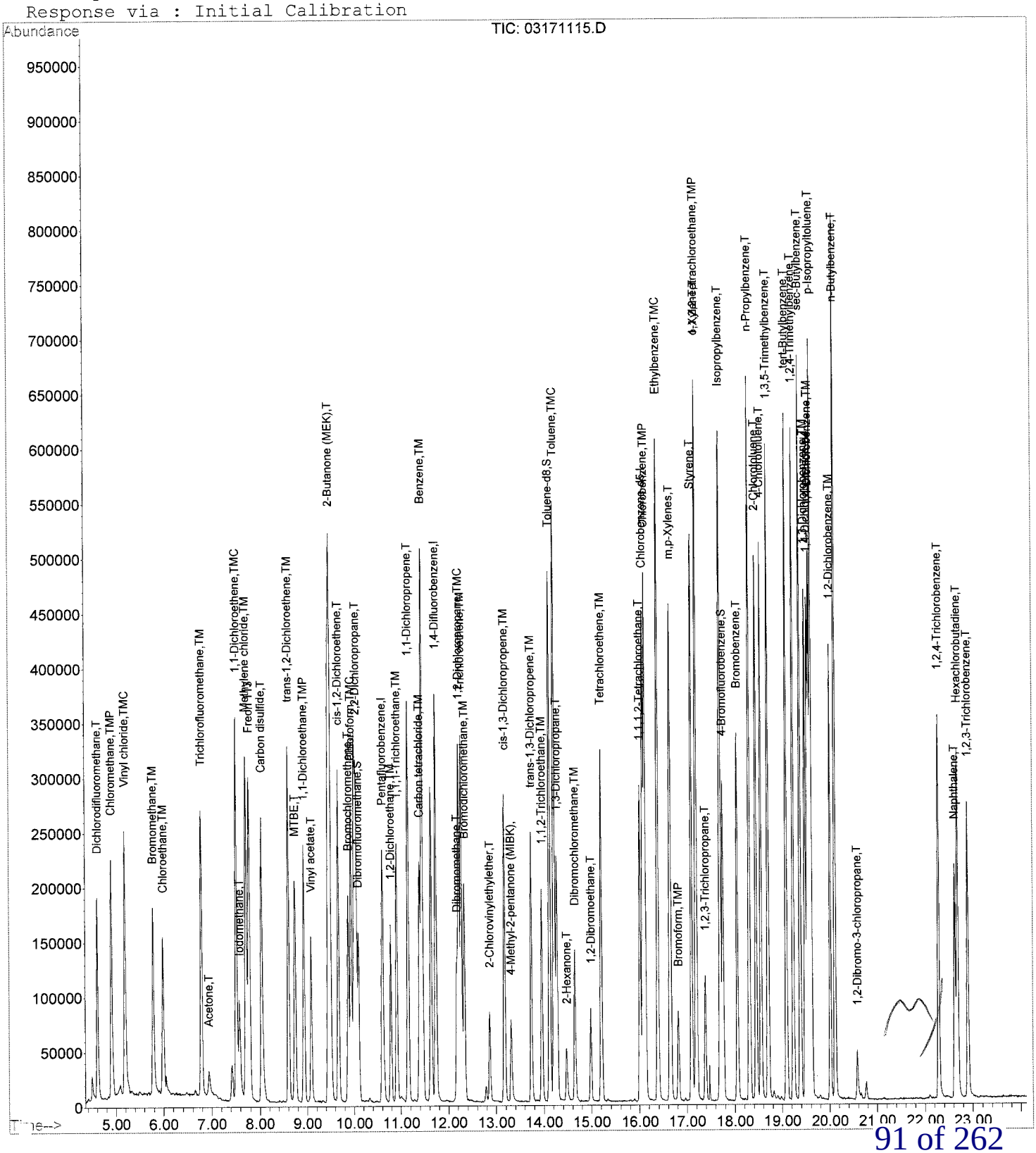
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	56108	25.08 ug/L #	94
44) Dibromochloromethane	14.65	129	87587	21.71 ug/L	95
45) 1,2-Dibromoethane	14.99	107	75157	22.31 ug/L	99
46) Tetrachloroethene	15.21	166	117481	22.09 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	94210	21.46 ug/L	97
48) Chlorobenzene	16.12	112	303242	21.76 ug/L	99
49) Ethylbenzene	16.38	91	564816	21.51 ug/L	100
50) m,p-Xylenes	16.65	106	195974	21.31 ug/L	98
51) Styrene	17.10	104	320734	23.00 ug/L	98
52) o-Xylene	17.19	106	185035	20.70 ug/L	99
55) Bromoform	16.81	173	46447	24.45 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.19	83	89438	23.28 ug/L	100
57) 1,2,3-Trichloropropane	17.39	110	19539	23.38 ug/L	94
58) Isopropylbenzene	17.70	105	516912	25.73 ug/L	100
59) Bromobenzene	18.06	156	111249	24.00 ug/L	99
60) n-Propylbenzene	18.31	91	688724	24.01 ug/L	100
61) 2-Chlorotoluene	18.45	91	374880	22.31 ug/L	100
62) 4-Chlorotoluene	18.55	91	386272	23.19 ug/L	98
63) 1,3,5-Trimethylbenzene	18.71	105	406096	23.39 ug/L	100
64) tert-Butylbenzene	19.10	119	344368	23.30 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	410391	23.52 ug/L	99
66) sec-Butylbenzene	19.38	105	581187	22.94 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	215599	22.83 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	216972	22.81 ug/L	99
69) p-Isopropyltoluene	19.61	119	456572	23.58 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	187538	22.83 ug/L	99
71) n-Butylbenzene	20.12	91	513084	23.80 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	12556	24.52 ug/L	96
73) 1,2,4-Trichlorobenzene	22.29	180	137336	25.88 ug/L	99
74) Naphthalene	22.63	128	213772	30.38 ug/L	100
75) Hexachlorobutadiene	22.69	225	81857	24.16 ug/L	98
76) 1,2,3-Trichlorobenzene	22.90	180	110762	25.60 ug/L	99

#) = qualifier out of range (m) = manual integration
03171115.D 031711.M Thu Mar 17 14:48:24 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171115.D Vial: 13
Acq On : 17 Mar 2011 1:50 pm Operator: LC
Sample : SS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171115.D 031711.M Thu Mar 17 14:48:25 2011 Page 3

8260AZ - Vapor Analysis
1 PPMV Tertiary Standard

3/17/2011

ppmv	Mol Wt.	ug/L
1	260.76	10.80

* Compound not in the standard mix

Conversion Calculation: ug/L=ppmv (MW*P)/(R*T)
R=Gas Constant(0.08206 l*atm/(mol*K)) MW=Molecular Weight
T=Temp in Degree K (21+273.15) P=Pressure in atm
Assume Temp in C of 21 (70 degrees F)

Compound	Molecular Weight	Expected Value (ug/L)	Actual Value (ug/L)	% Recovery
Dichlorodifluoromethane	120.91	5.01	6.05	121
Chloromethane	50.49	2.09	2.13	102
Vinyl Chloride	62.5	2.59	2.49	96
Bromomethane	94.94	3.93	1.91	49
Chloroethane	64.52	2.67	2.56	96
Trichlorofluoromethane	137.37	5.69	5.99	105
Acetone *				
Iodomethane *				
1,1-Dichloroethene	96.94	4.02	3.55	88
Methylene Chloride	84.93	3.52	3.35	95
Carbon Disulfide *				
trans-1,2-DCE *				
MTBE *				
1,1-Dichloroethane	98.96	4.10	3.37	82
Vinyl Acetate *				
2-Butanone *				
cis-1,2-DCE	96.94	4.02	3.41	85
Bromochloromethane *				
Chloroform	119.38	4.95	3.92	79
2,2-Dichloropropane *				
1,2-DCA	98.96	4.10	3.33	81
1,1,1-Trichloroethane	133.41	5.53	4.69	85
1,1-Dichloropropene *				
Carbon Tetrachloride	153.82	6.37	5.34	84
Benzene	78.11	3.24	2.68	83
Dibromomethane *				
1,2-Dichloropropane	112.99	4.68	3.9	83
Trichloroethene	131.39	5.44	4.59	84
Bromodichloromethane *				
2-CEVE *				
cis-1,3-Dichloropropene	110.97	4.60	3.55	77
4-Methyl-2-Pentanone *				
trans-1,3-Dichloropropene	110.97	4.60	3.53	77
1,1,2-Trichloroethane	133.41	5.53	4.56	82
Toluene	92.14	3.82	3.16	83
1,3-Dichloropropane *				

N1

M [illegible]
LC 03/18/11

2-Hexanone *				
Dibromochloromethane *				
1,2-Dibromoethane	**187.86**	**7.78**	**6.53**	**84**
Tetrachloroethene	**165.83**	**6.87**	**5.59**	**81**
1,1,1,2-Tetrachloroethane *				
Chlorobenzene	**112.56**	**4.66**	**3.59**	**77**
Ethylbenzene	**106.16**	**4.40**	**3.45**	**78**
m,p-Xylenes	**212.36**	**8.80**	**6.85**	**78**
Styrene	**104.16**	**4.31**	**3.37**	**78**
o-Xylene	**106.18**	**4.40**	**3.51**	**80**
1,1,2,2-Tetrachloroethane	**133.41**	**5.53**	**5.91**	**107**
1,2,3-Trichloropropane *				
Isopropylbenzene *				
Bromobenzene *				
n-Propylbenzene *				
2-Chlorotoluene *				
4-Chlorotoluene *				
1,3,5-Trimethylbenzene	**120.19**	**4.98**	**4.09**	**82**
tert-butylbenzene *				
1,2,4-Trimethylbenzene	**120.19**	**4.98**	**4.11**	**83**
sec-butylbenzene *				
1,3-Dichlorobenzene	**147**	**6.09**	**4.85**	**80**
1,4-Dichlorobenzene	**147**	**6.09**	**4.73**	**78**
p-Isopropyltoluene *				
1,2-Dichlorobenzene	**147**	**6.09**	**5.01**	**82**
n-Butylbenzene *				
1,2-Dibromo-3-chloropropane *				
1,2,4-Trichlorobenzene	**181.46**	**7.52**	**5.44**	**72**
Naphthalene *				
Hexachlorobutadiene	**260.76**	**10.80**	**8.7**	**81**
1,2,3-Trichlorobenzene *				

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D
Acq On : 17 Mar 2011 2:20 pm
Sample : TERTIARY GAS
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011

Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	201057	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.74	114	351105	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	292717	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	134120	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.10	113	108706	21.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.96%	
39) Toluene-d8	14.12	98	384321	21.70 ug/L	0.00
Spiked Amount 25.000			Recovery	= 86.80%	
53) 4-Bromofluorobenzene	17.76	95	132578	20.67 ug/L	0.00
Spiked Amount 25.000			Recovery	= 82.68%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	57530	6.06 ug/L	95
3) Chloromethane	4.90	50	33468	2.13 ug/L	98
4) Vinyl chloride	5.19	62	34821	2.49 ug/L	96
5) Bromomethane	5.78	94	12125	1.91 ug/L	94
6) Chloroethane	5.99	64	18973	2.56 ug/L	90
7) Trichlorofluoromethane	6.79	101	58222	5.99 ug/L	100
8) Acetone	6.94	43	1602	Below Cal #	85
9) Iodomethane	7.57	142	6053	1.47 ug/L	91
10) 1,1-Dichloroethene	7.52	96	20124	3.55 ug/L	97
11) Methylene chloride	7.72	84	22344	3.35 ug/L	90
12) Freon 113	7.78	101	41757	6.22 ug/L	97
13) Carbon disulfide	8.03	76	10613	0.53 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	558	0.09 ug/L #	60
15) MTBE	8.75	73	153	0.01 ug/L #	50
16) 1,1-Dichloroethane	8.93	63	44110	3.37 ug/L	99
17) Vinyl acetate	9.09	43	405	0.04 ug/L #	83
18) 2-Butanone (MEK)	9.66	72	117	1.25 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	22148	3.41 ug/L	96
20) Bromochloromethane	0.00	128	0	N.D.	
21) Chloroform	9.94	83	42350	3.92 ug/L	98
22) 2,2-Dichloropropane	0.00	77	0	N.D.	
24) 1,2-Dichloroethane	10.78	62	21923	3.33 ug/L	96
25) 1,1,1-Trichloroethane	10.92	97	36411	4.69 ug/L	98
27) 1,1-Dichloropropene	0.00	75	0	N.D.	
28) Carbon tetrachloride	11.40	117	33155	5.34 ug/L	97
29) Benzene	11.45	78	64449	2.68 ug/L	98
30) Dibromomethane	0.00	93	0	N.D.	
31) 1,2-Dichloropropane	12.22	63	26155	3.90 ug/L	99
32) Trichloroethene	12.28	95	27561	4.59 ug/L	97
33) Bromodichloromethane	12.29	83	154	0.02 ug/L #	25
34) 2-Chlorovinylethylether	0.00	63	0	N.D.	
35) cis-1,3-Dichloropropene	13.17	75	30363	3.55 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.33	43	274	0.08 ug/L #	50
37) trans-1,3-Dichloropropene	13.74	75	23347	3.53 ug/L	98
38) 1,1,2-Trichloroethane	13.96	83	14497	4.56 ug/L	99
40) Toluene	14.22	92	43103	3.16 ug/L	96
42) 1,3-Dichloropropane	14.21	76	285	0.04 ug/L #	44

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D
Acq On : 17 Mar 2011 2:20 pm
Sample : TERTIARY GAS
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011

Vial: 16
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

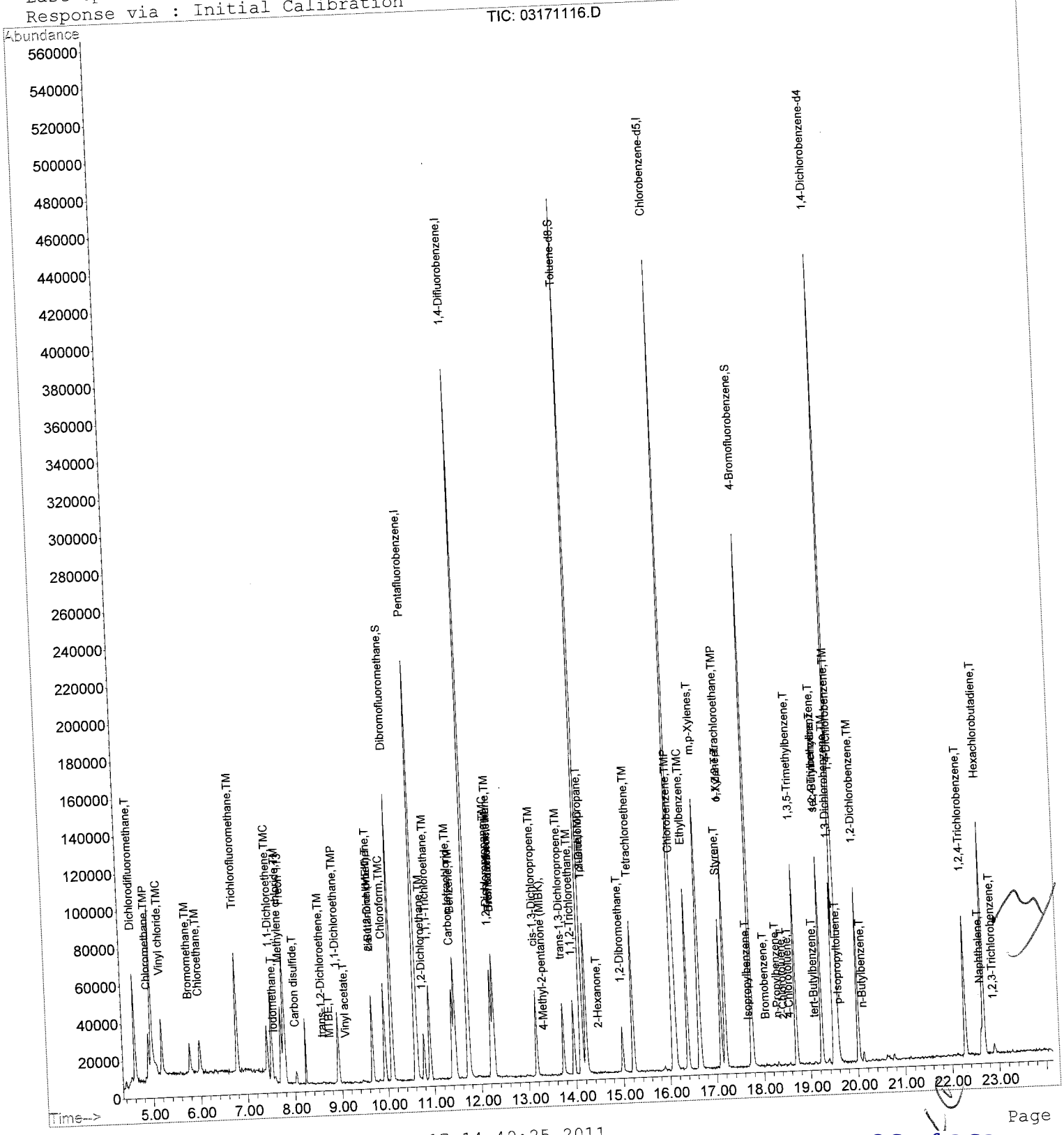
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	136	0.06 ug/L #	29
44) Dibromochloromethane	0.00	129	0	N.D.	
45) 1,2-Dibromoethane	14.99	107	21706	6.53 ug/L	99
46) Tetrachloroethene	15.21	166	29329	5.59 ug/L	99
47) 1,1,1,2-Tetrachloroethane	0.00	131	0	N.D.	
48) Chlorobenzene	16.12	112	49412	3.59 ug/L	98
49) Ethylbenzene	16.38	91	89509	3.45 ug/L	99
50) m,p-Xylenes	16.64	106	62191	6.85 ug/L	100
51) Styrene	17.10	104	46398	3.37 ug/L	97
52) o-Xylene	17.19	106	30948	3.51 ug/L	97
55) Bromoform	0.00	173	0	N.D.	
56) 1,1,2,2-Tetrachloroethane	17.19	83	23190	5.91 ug/L	95
57) 1,2,3-Trichloropropane	0.00	110	0	N.D.	
58) Isopropylbenzene	17.70	105	1070	0.05 ug/L #	51
59) Bromobenzene	18.06	156	141	0.03 ug/L #	43
60) n-Propylbenzene	18.32	91	1826	0.06 ug/L #	90
61) 2-Chlorotoluene	18.45	91	787	0.05 ug/L #	44
62) 4-Chlorotoluene	18.56	91	1213	0.07 ug/L #	65
63) 1,3,5-Trimethylbenzene	18.71	105	72087	4.06 ug/L	98
64) tert-Butylbenzene	19.09	119	908	0.06 ug/L #	76
65) 1,2,4-Trimethylbenzene	19.24	105	73403	4.11 ug/L	99
66) sec-Butylbenzene	19.24	105	73403	2.83 ug/L #	61
67) 1,3-Dichlorobenzene	19.49	146	46821	4.85 ug/L	100
68) 1,4-Dichlorobenzene	19.58	146	46004	4.73 ug/L	97
69) p-Isopropyltoluene	19.62	119	1222	0.06 ug/L #	89
70) 1,2-Dichlorobenzene	20.02	146	42108	5.01 ug/L	98
71) n-Butylbenzene	20.13	91	3423	0.16 ug/L	97
72) 1,2-Dibromo-3-chloropropan	0.00	157	0	N.D.	
73) 1,2,4-Trichlorobenzene	22.29	180	29509	5.44 ug/L	99
74) Naphthalene	22.63	128	15881	2.21 ug/L	100
75) Hexachlorobutadiene	22.69	225	30129	8.70 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	2346	0.53 ug/L	95

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171116.D Vial: 16
Acq On : 17 Mar 2011 2:20 pm Operator: LC
Sample : TERTIARY GAS Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 17 14:48 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D
Acq On : 17 Mar 2011 8:41 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011

Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re-Lab

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193696	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	342205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	281588	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131620	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110687	22.71 ug/L	0.00
Spiked Amount 25.000			Recovery =	90.84%	
39) Toluene-d8	14.11	98	374753	21.71 ug/L	0.00
Spiked Amount 25.000			Recovery =	86.84%	
53) 4-Bromofluorobenzene	17.75	95	131653	21.33 ug/L	0.00
Spiked Amount 25.000			Recovery =	85.32%	

Target Compounds					Qvalue
3) Chloromethane	4.89	50	1791	0.12 ug/L LRL	98
5) Bromomethane	5.77	94	123	0.28 ug/L #	76
8) Acetone	6.93	43	3328	Below Cal #	67
13) Carbon disulfide	8.02	76	5282	0.27 ug/L	100
17) Vinyl acetate	9.19	43	944	0.10 ug/L #	83
24) 1,2-Dichloroethane	10.60	62	1206	0.19 ug/L #	1
38) 1,1,2-Trichloroethane	14.11	83	345	0.11 ug/L #	1
42) 1,3-Dichloropropane	14.12	76	3863	0.61 ug/L # WRT	68
43) 2-Hexanone	14.46	43	235	0.11 ug/L # LRL	29
74) Naphthalene	22.63	128	1667	0.24 ug/L	100

M 3/18/11

LC 03/18/11

(#) = qualifier out of range (m) = manual integration
03171105.D 031711.M Fri Mar 18 08:36:53 2011

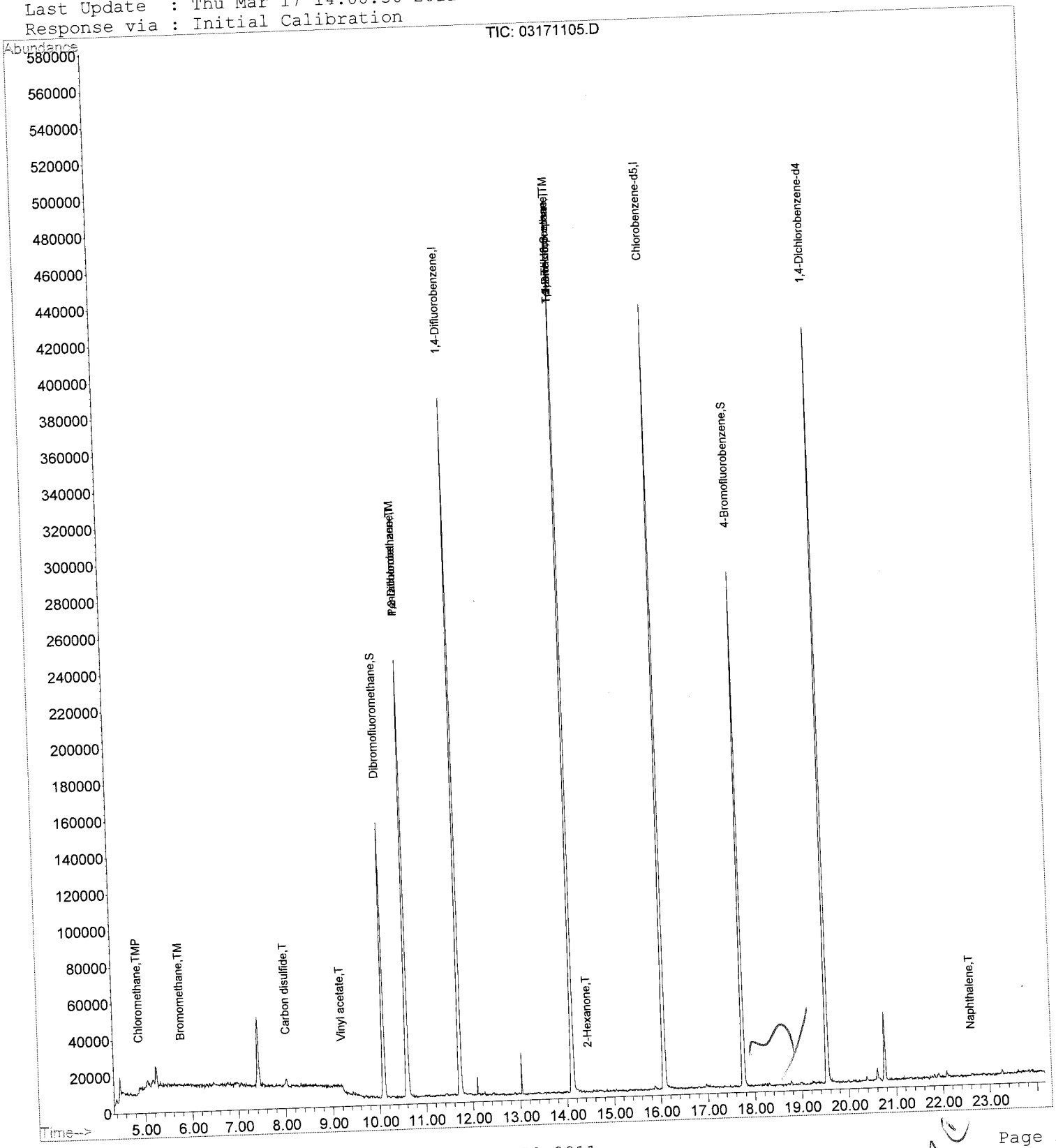
Quantitation Report

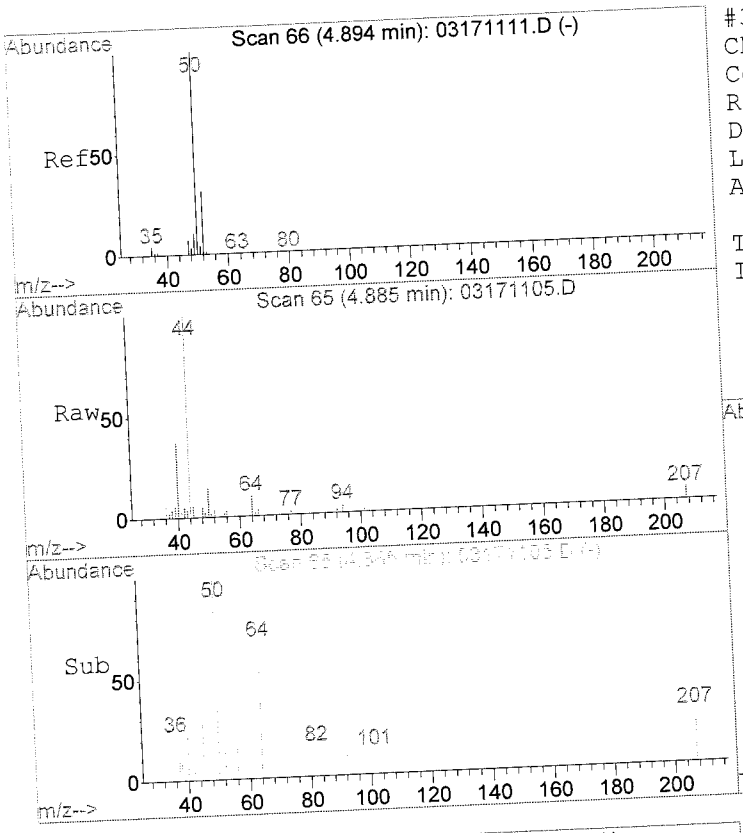
Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171105.D
Acq On : 17 Mar 2011 8:41 am
Sample : BLANK
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011

Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

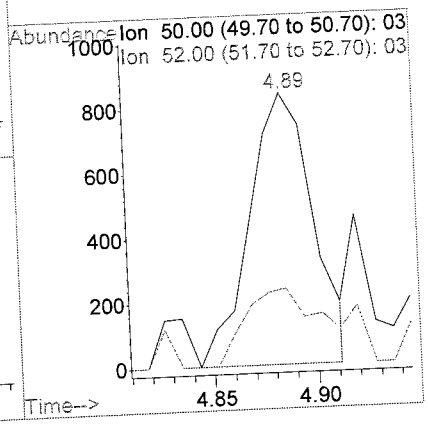


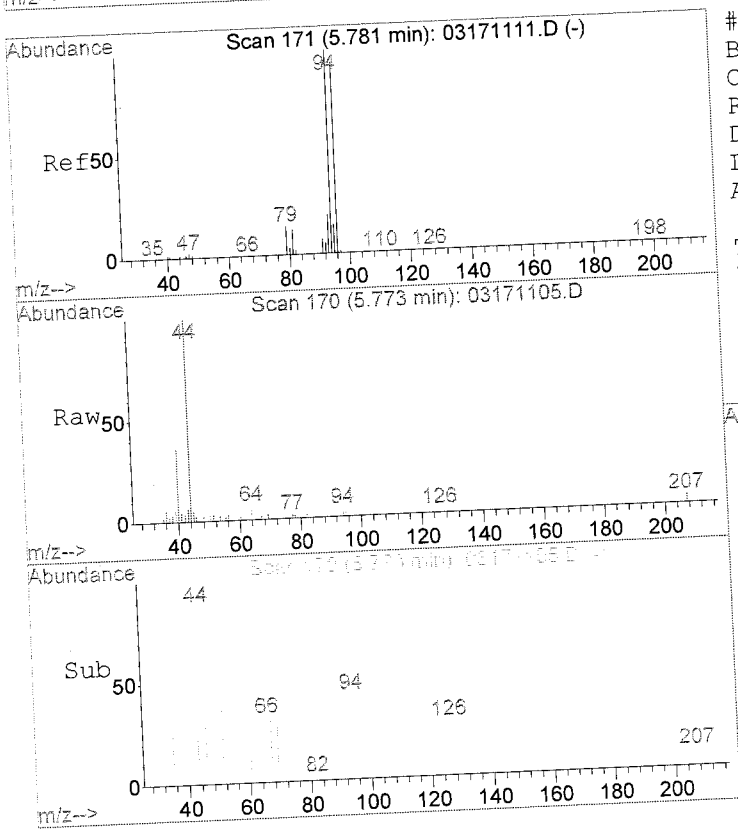


#3
Chloromethane
Concen: 0.12 ug/L
RT: 4.89 min Scan# 65
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 50 Resp: 1791

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.1	37.7

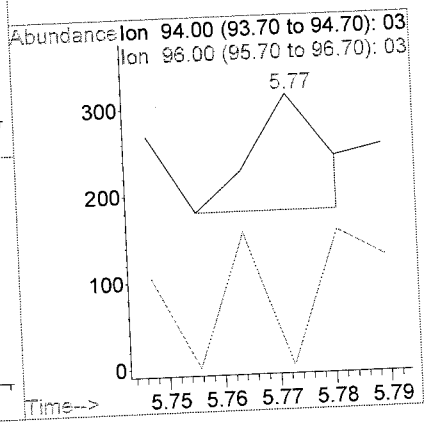


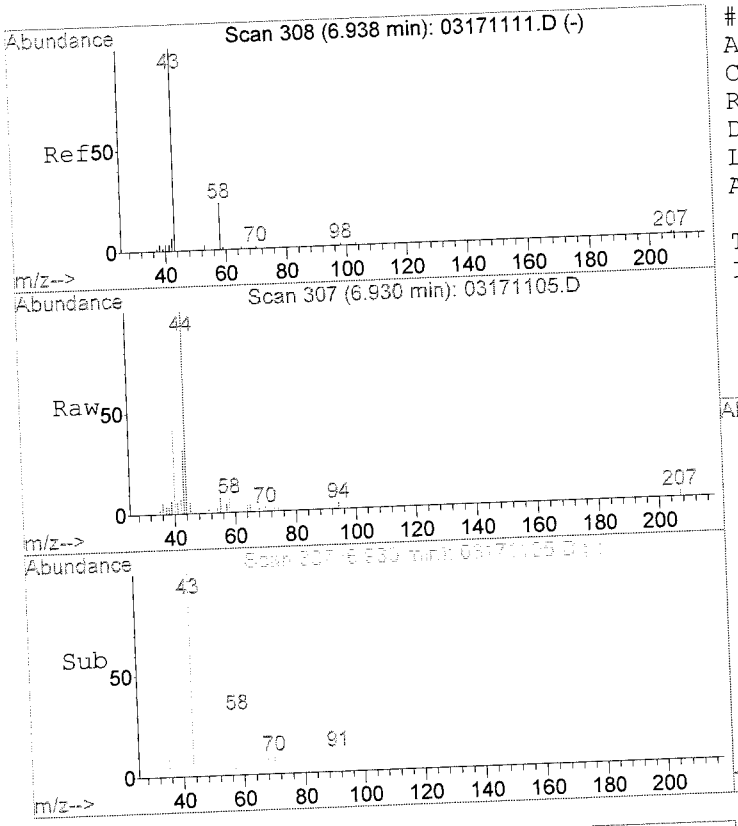


#5
Bromomethane
Concen: 0.28 ug/L
RT: 5.77 min Scan# 170
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 94 Resp: 123

Ion	Ratio	Lower	Upper
94	100		
96	115.4	74.0	111.0#

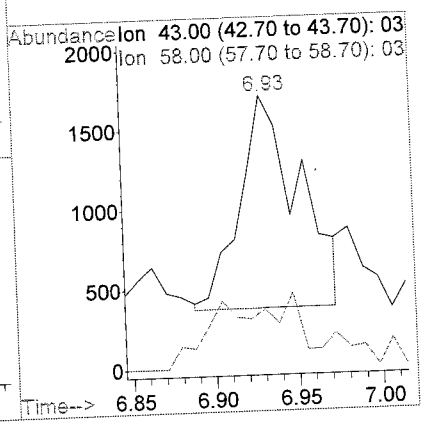


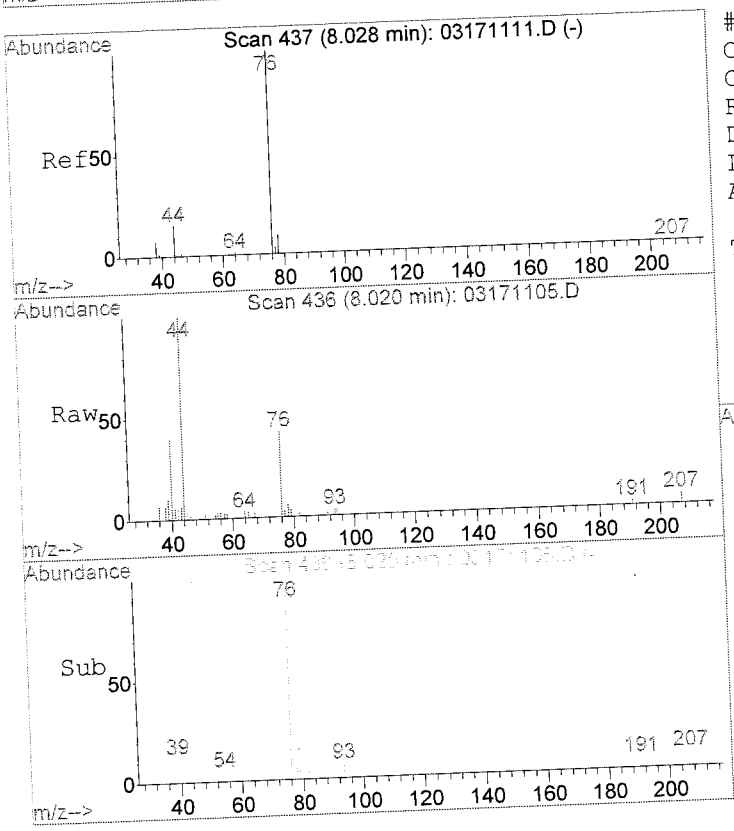


#8
Acetone
Concen: Below Cal
RT: 6.93 min Scan# 307
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 3328

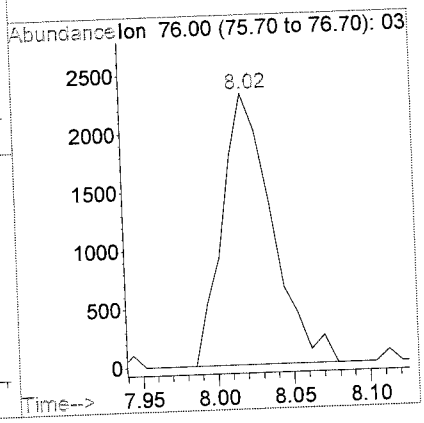
Ion	Ratio	Lower	Upper
43	100		
58	9.7	21.2	31.8#

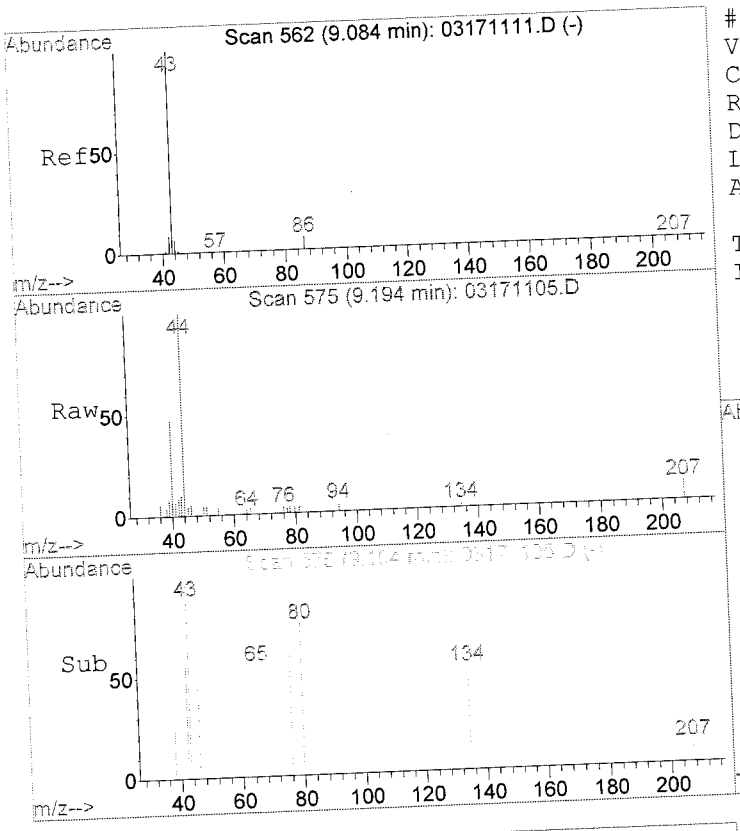




#13
Carbon disulfide
Concen: 0.27 ug/L
RT: 8.02 min Scan# 436
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 76 Resp: 5282

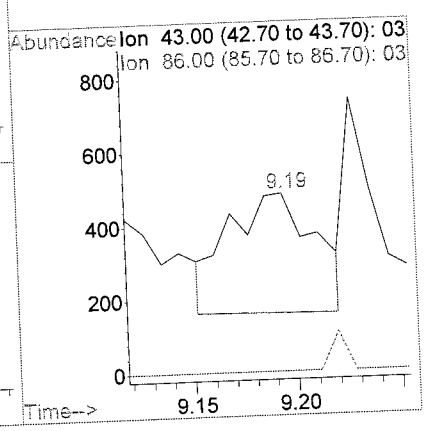


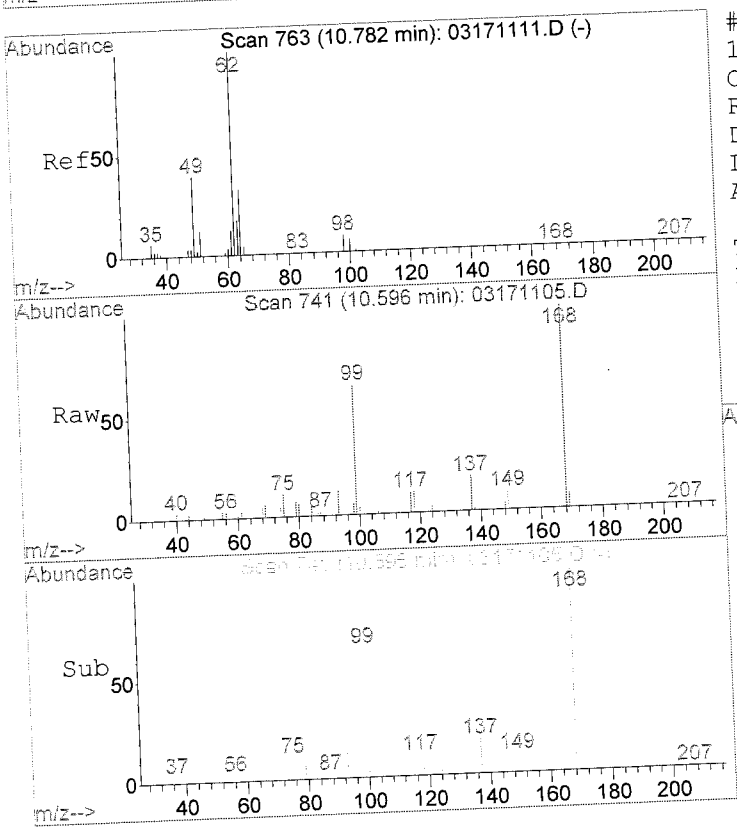


#17
Vinyl acetate
Concen: 0.10 ug/L
RT: 9.19 min Scan# 575
Delta R.T. 0.11 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#

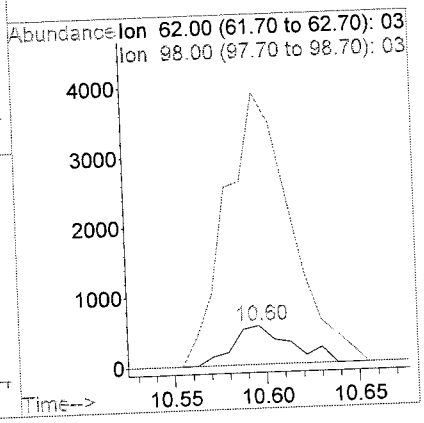


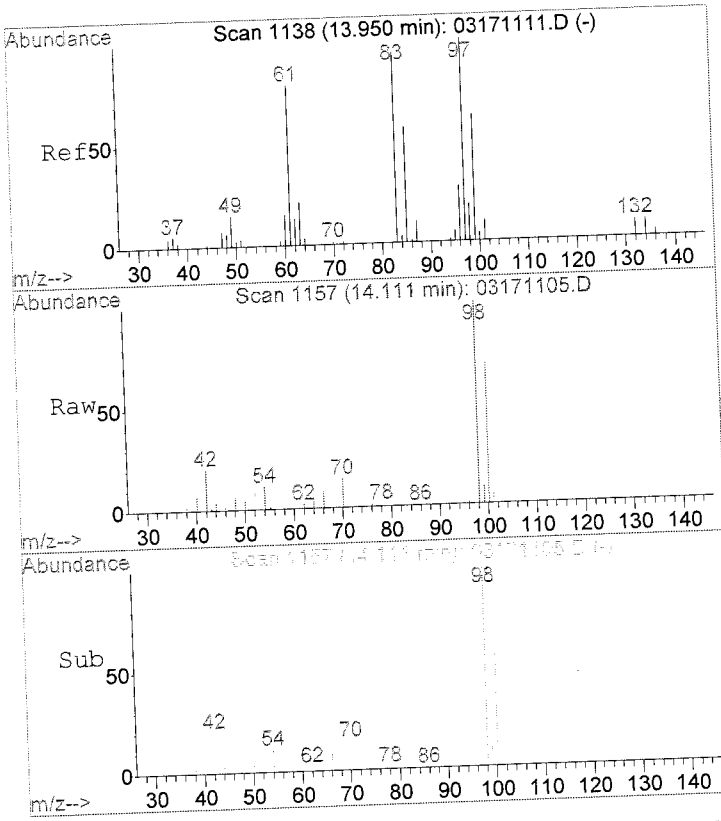


#24
1,2-Dichloroethane
Concen: 0.19 ug/L
RT: 10.60 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 62 Resp: 1206

Ion	Ratio	Lower	Upper
62	100		
98	791.2	7.0	10.6#

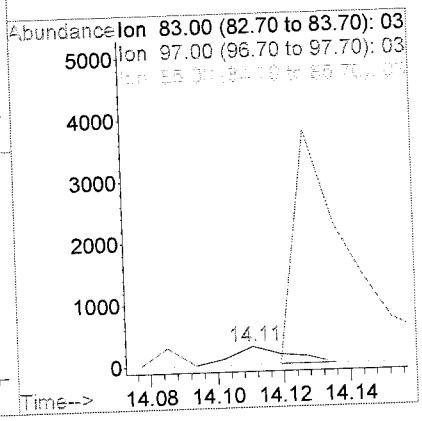


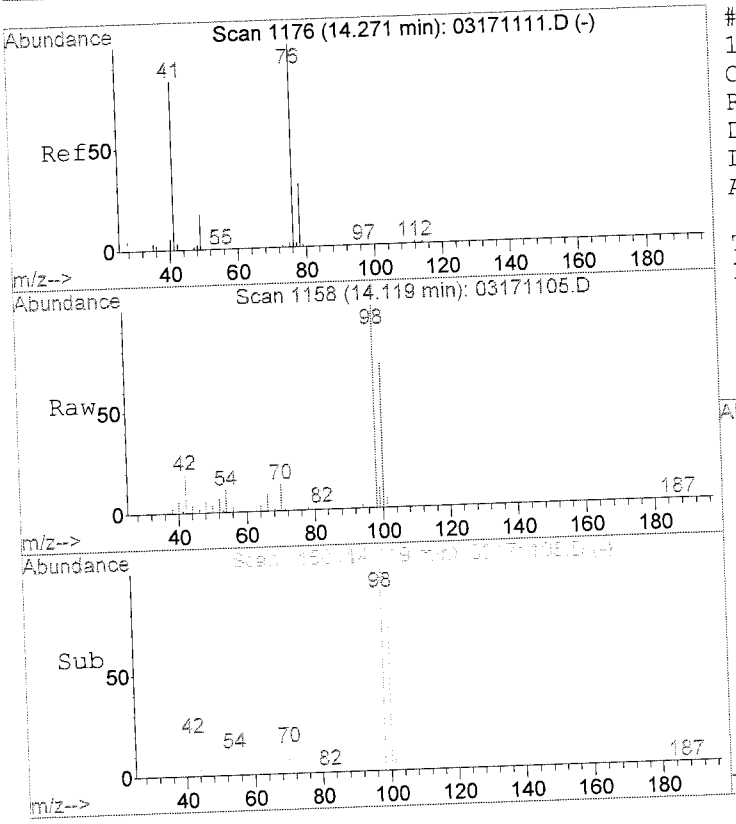


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 83 Resp: 345

Ion	Ratio	Lower	Upper
83	100		
97	1295.7	83.0	124.6#
85	0.0	51.3	76.9#



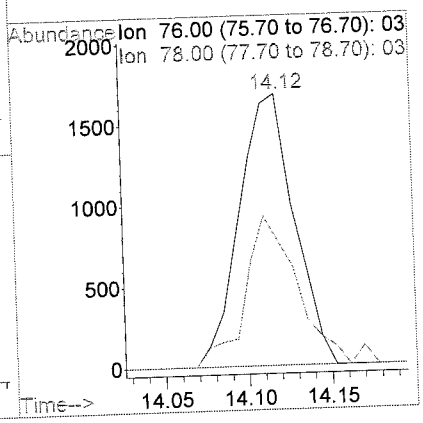


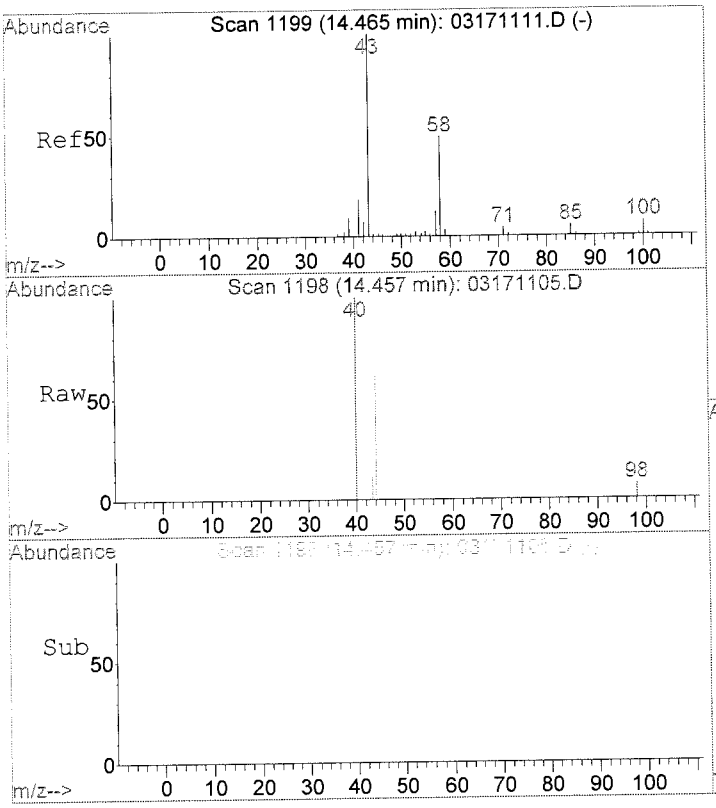
#42
1,3-Dichloropropane
Concen: 0.61 ug/L
RT: 14.12 min Scan# 1158
Delta R.T. -0.15 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

WRT

Tgt Ion: 76 Resp: 3863

Ion	Ratio	Lower	Upper
76	100		
78	48.4	24.6	37.0#

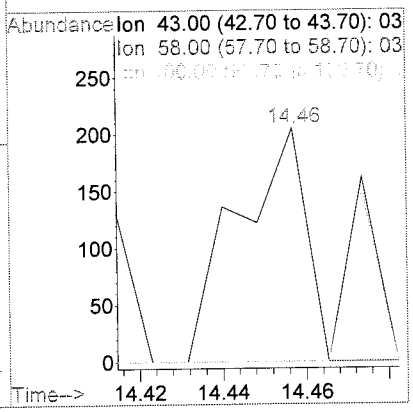


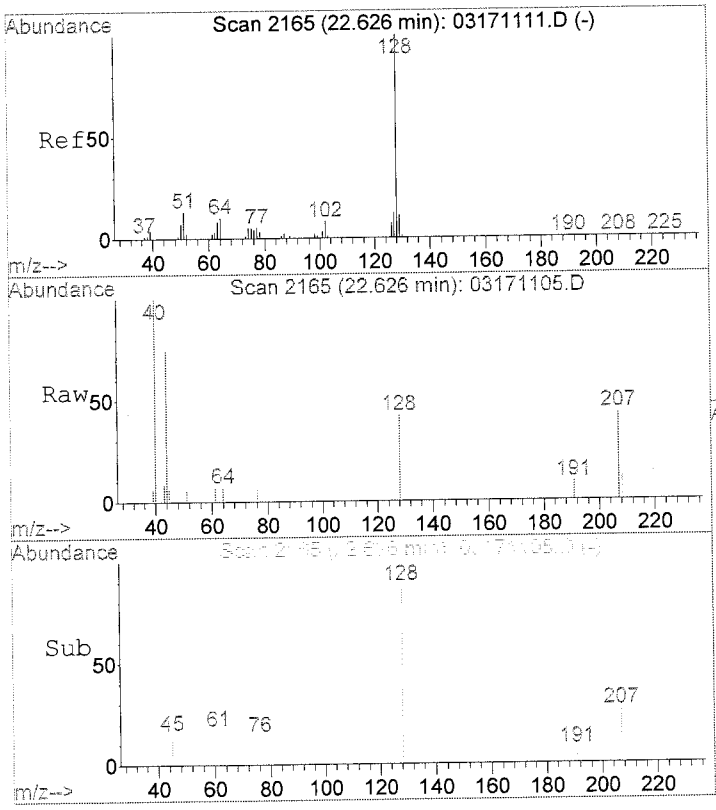


#43
2-Hexanone
Concen: 0.11 ug/L
RT: 14.46 min Scan# 1198
Delta R.T. -0.01 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion: 43 Resp: 235

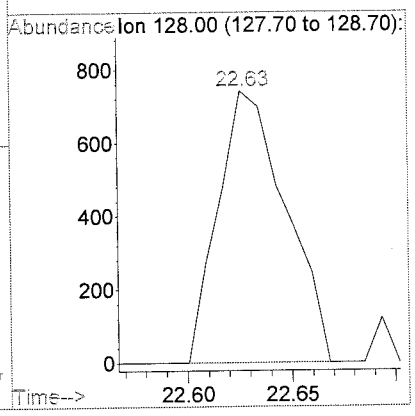
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.4#
100	0.0	0.0	0.0





#74
Naphthalene
Concen: 0.24 ug/L
RT: 22.63 min Scan# 2165
Delta R.T. 0.00 min
Lab File: 03171105.D
Acq: 17 Mar 2011 8:41 am

Tgt Ion:128 Resp: 1667



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Re-calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167634	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	297798	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.08	117	243567	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	115909	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	2490	0.59 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.36%	
39) Toluene-d8	14.12	98	8971	0.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.40%	
53) 4-Bromofluorobenzene	17.76	95	3244	0.61 ug/L	0.00
Spiked Amount 25.000			Recovery	= 2.44%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	4286	0.54 ug/L #	90
3) Chloromethane	4.89	50	6587	0.50 ug/L	95
4) Vinyl chloride	5.18	62	6003	0.51 ug/L	90
5) Bromomethane	5.78	94	3084	0.76 ug/L	93
6) Chloroethane	5.97	64	3371	0.55 ug/L #	73
7) Trichlorofluoromethane	6.77	101	4364	0.54 ug/L	92
8) Acetone	6.93	43	1615	Below Cal #	66
9) Iodomethane	7.58	142	1272	0.47 ug/L	92
10) 1,1-Dichloroethene	7.50	96	2883	0.61 ug/L	93
11) Methylene chloride	7.70	84	3890	0.70 ug/L	97
12) Freon 113	7.77	101	3509	0.63 ug/L	92
13) Carbon disulfide	8.02	76	10027	0.60 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	2756	0.53 ug/L #	92
15) MTBE	8.73	73	5033	0.56 ug/L #	72
16) 1,1-Dichloroethane	8.92	63	5945	0.54 ug/L	96
17) Vinyl acetate	9.08	43	4816	0.57 ug/L #	83
18) 2-Butanone (MEK)	9.46	72	199	1.62 ug/L #	34
19) cis-1,2-Dichloroethene	9.66	96	3067	0.57 ug/L	90
20) Bromochloromethane	9.87	128	1134	0.57 ug/L #	93
21) Chloroform	9.93	83	4941	0.55 ug/L	100
22) 2,2-Dichloropropane	10.04	77	3858	0.53 ug/L	100
24) 1,2-Dichloroethane	10.77	62	2927	0.53 ug/L #	76
25) 1,1,1-Trichloroethane	10.91	97	3290	0.51 ug/L #	55
27) 1,1-Dichloropropene	11.15	75	4028	0.53 ug/L	95
28) Carbon tetrachloride	11.39	117	2538	0.48 ug/L	92
29) Benzene	11.44	78	11043	0.54 ug/L	99
30) Dibromomethane	12.17	93	1308	0.54 ug/L #	87
31) 1,2-Dichloropropane	12.22	63	3128	0.55 ug/L #	97
32) Trichloroethene	12.27	95	2709	0.53 ug/L	98
33) Bromodichloromethane	12.33	83	3018	0.50 ug/L #	99
34) 2-Chlorovinylethylether	12.87	63	774	Below Cal #	55
35) cis-1,3-Dichloropropene	13.18	75	3500	0.48 ug/L #	88
36) 4-Methyl-2-pentanone (MIBK	13.32	43	2046	0.69 ug/L #	82
37) trans-1,3-Dichloropropene	13.74	75	2553	0.46 ug/L #	69
38) 1,1,2-Trichloroethane	13.96	83	1372	0.51 ug/L	84
40) Toluene	14.21	92	6374	0.55 ug/L	96
42) 1,3-Dichloropropane	14.28	76	2607	0.47 ug/L	96

(#) = qualifier out of range (m) = manual integration
03171106.D 031711.M Fri Mar 18 08:37:04 2011

3/4/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

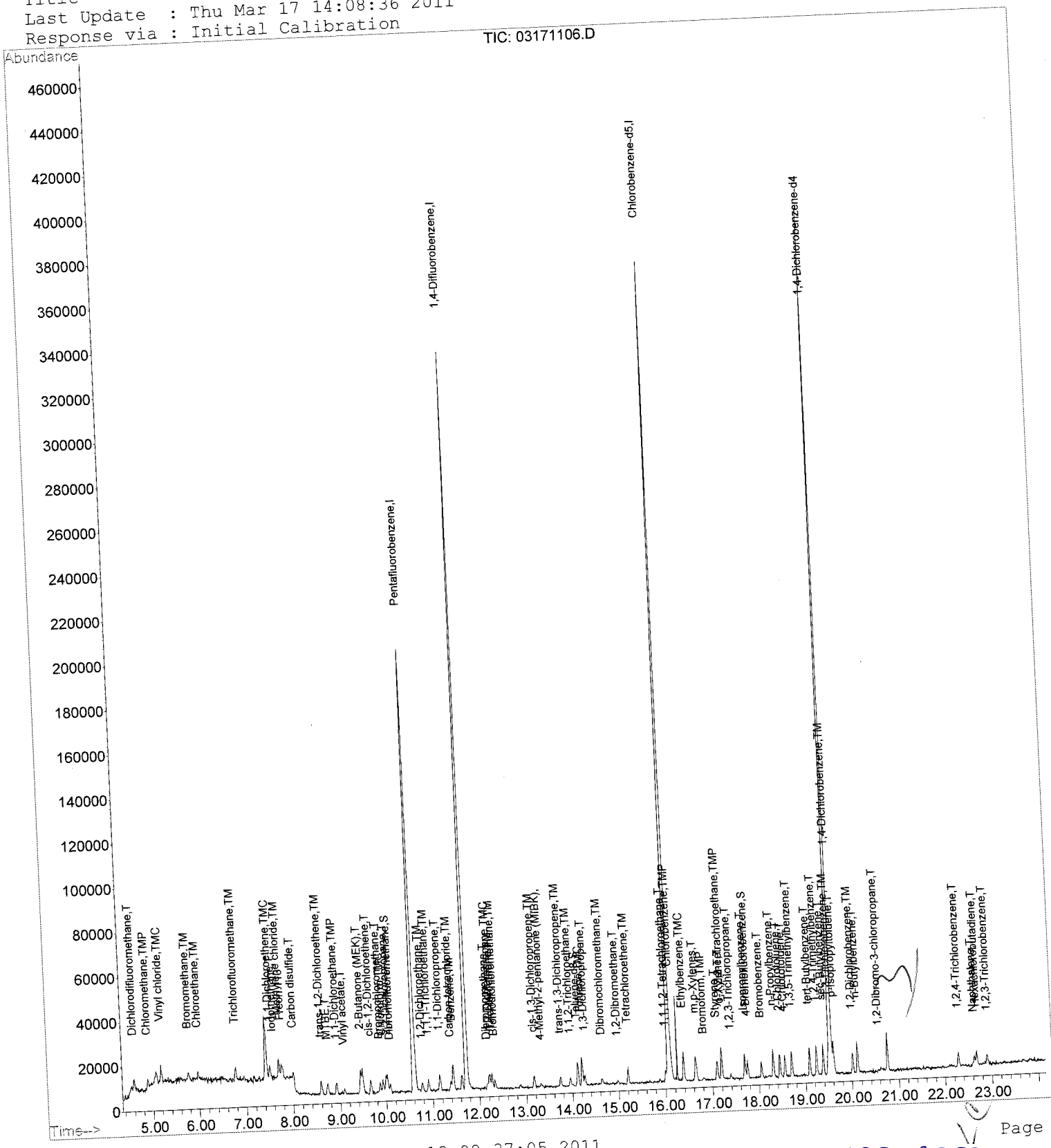
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Dibromochloromethane	14.65	129	2052	0.62 ug/L	85
45) 1,2-Dibromoethane	14.98	107	1293	0.47 ug/L #	78
46) Tetrachloroethene	15.21	166	2392	0.55 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.02	131	2040	0.57 ug/L #	53
48) Chlorobenzene	16.12	112	6227	0.54 ug/L	97
49) Ethylbenzene	16.38	91	11848	0.55 ug/L	94
50) m,p-Xylenes	16.64	106	4453	0.59 ug/L	95
51) Styrene	17.10	104	5086	0.44 ug/L #	78
52) o-Xylene	17.20	106	4214	0.57 ug/L	96
55) Bromoform	16.81	173	696	0.41 ug/L #	64
56) 1,1,2,2-Tetrachloroethane	17.18	83	1800	0.53 ug/L #	93
57) 1,2,3-Trichloropropane	17.38	110	276	0.37 ug/L #	62
58) Isopropylbenzene	17.70	105	9284	0.52 ug/L	99
59) Bromobenzene	18.05	156	1904	0.46 ug/L	83
60) n-Propylbenzene	18.31	91	13033	0.51 ug/L	97
61) 2-Chlorotoluene	18.45	91	8427	0.57 ug/L	93
62) 4-Chlorotoluene	18.56	91	8009	0.54 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	8073	0.53 ug/L	98
64) tert-Butylbenzene	19.09	119	6647	0.51 ug/L	96
65) 1,2,4-Trimethylbenzene	19.24	105	7949	0.52 ug/L	100
66) sec-Butylbenzene	19.38	105	11380	0.51 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	4456	0.53 ug/L	94
68) 1,4-Dichlorobenzene	19.56	146	4679	0.56 ug/L #	87
69) p-Isopropyltoluene	19.61	119	8395	0.49 ug/L	94
70) 1,2-Dichlorobenzene	20.02	146	3885	0.54 ug/L	97
71) n-Butylbenzene	20.11	91	9466	0.50 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.57	157	71	0.16 ug/L #	14
73) 1,2,4-Trichlorobenzene	22.29	180	2133	0.46 ug/L	81
74) Naphthalene	22.63	128	4307	0.69 ug/L	100
75) Hexachlorobutadiene	22.69	225	1446	0.48 ug/L #	65
76) 1,2,3-Trichlorobenzene	22.90	180	1936	0.51 ug/L	87

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171106.D Vial: 3
Acq On : 17 Mar 2011 9:12 am Operator: LC
Sample : 0.5 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:36 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 18 8:37 2011

Re Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163969	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	292012	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	243395	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	113057	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	3898	0.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 3.76%	
39) Toluene-d8	14.12	98	14880	1.01 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.04%	
53) 4-Bromofluorobenzene	17.76	95	5477	1.03 ug/L	0.00
Spiked Amount 25.000			Recovery	= 4.12%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.58	85	7417	0.96 ug/L	94
3) Chloromethane	4.89	50	11297	0.88 ug/L	99
4) Vinyl chloride	5.18	62	11731	1.03 ug/L #	84
5) Bromomethane	5.77	94	5200	1.12 ug/L	94
6) Chloroethane	5.98	64	6815	1.13 ug/L #	88
7) Trichlorofluoromethane	6.77	101	8152	1.03 ug/L	91
8) Acetone	6.93	43	2180	Below Cal	96
9) Iodomethane	7.57	142	3864	1.18 ug/L #	86
10) 1,1-Dichloroethene	7.51	96	5486	1.19 ug/L	97
11) Methylene chloride	7.70	84	6767	1.24 ug/L	92
12) Freon 113	7.78	101	6284	1.15 ug/L	98
13) Carbon disulfide	8.02	76	17829	1.08 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	6106	1.19 ug/L	85
15) MTBE	8.73	73	10605	1.21 ug/L #	88
16) 1,1-Dichloroethane	8.92	63	12255	1.15 ug/L #	97
17) Vinyl acetate	9.09	43	9903	1.19 ug/L #	93
18) 2-Butanone (MEK)	9.48	72	190	1.60 ug/L #	1
19) cis-1,2-Dichloroethene	9.65	96	5176	0.98 ug/L	96
20) Bromochloromethane	9.88	128	2006	1.03 ug/L	97
21) Chloroform	9.93	83	8465	0.96 ug/L	99
22) 2,2-Dichloropropane	10.03	77	6968	0.98 ug/L #	90
24) 1,2-Dichloroethane	10.78	62	5936	1.10 ug/L #	76
25) 1,1,1-Trichloroethane	10.90	97	6150	0.97 ug/L #	56
27) 1,1-Dichloropropene	11.15	75	7119	0.95 ug/L #	93
28) Carbon tetrachloride	11.39	117	4876	0.94 ug/L	98
29) Benzene	11.44	78	20409	1.02 ug/L	97
30) Dibromomethane	12.17	93	2529	1.07 ug/L	94
31) 1,2-Dichloropropane	12.21	63	5383	0.96 ug/L #	90
32) Trichloroethene	12.26	95	4847	0.97 ug/L	95
33) Bromodichloromethane	12.32	83	5644	0.96 ug/L #	87
34) 2-Chlorovinylethylether	12.86	63	1739	0.28 ug/L #	80
35) cis-1,3-Dichloropropene	13.18	75	6952	0.98 ug/L	95
36) 4-Methyl-2-pentanone (MIBK	13.32	43	3457	1.19 ug/L #	89
37) trans-1,3-Dichloropropene	13.73	75	5675	1.03 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	2621	0.99 ug/L #	84
40) Toluene	14.22	92	10459	0.92 ug/L	93
42) 1,3-Dichloropropane	14.27	76	5543	1.01 ug/L #	75

(#) = qualifier out of range (m) = manual integration
03171107.D 031711.M Fri Mar 18 08:37:19 2011

4/11/12
03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D
Acq On : 17 Mar 2011 9:43 am
Sample : 1.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2515	1.37 ug/L #	71
44) Dibromochloromethane	14.65	129	2863	0.86 ug/L	97
45) 1,2-Dibromoethane	14.98	107	2446	0.88 ug/L #	77
46) Tetrachloroethene	15.20	166	4051	0.93 ug/L	94
47) 1,1,1,2-Tetrachloroethane	16.01	131	3599	1.00 ug/L #	59
48) Chlorobenzene	16.12	112	10976	0.96 ug/L	93
49) Ethylbenzene	16.38	91	20598	0.96 ug/L	98
50) m,p-Xylenes	16.64	106	6910	0.92 ug/L	93
51) Styrene	17.10	104	10355	0.90 ug/L	99
52) o-Xylene	17.20	106	7210	0.98 ug/L	87
55) Bromoform	16.81	173	1545	0.94 ug/L #	76
56) 1,1,2,2-Tetrachloroethane	17.19	83	3513	1.06 ug/L #	91
57) 1,2,3-Trichloropropane	17.38	110	807	1.12 ug/L	98
58) Isopropylbenzene	17.70	105	16311	0.94 ug/L	99
59) Bromobenzene	18.05	156	3839	0.96 ug/L	97
60) n-Propylbenzene	18.30	91	23854	0.97 ug/L	100
61) 2-Chlorotoluene	18.45	91	14160	0.98 ug/L	96
62) 4-Chlorotoluene	18.55	91	13119	0.91 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	13815	0.92 ug/L	96
64) tert-Butylbenzene	19.09	119	12127	0.95 ug/L	97
65) 1,2,4-Trimethylbenzene	19.23	105	14600	0.97 ug/L	99
66) sec-Butylbenzene	19.38	105	21187	0.97 ug/L	98
67) 1,3-Dichlorobenzene	19.48	146	7671	0.94 ug/L	93
68) 1,4-Dichlorobenzene	19.57	146	8218	1.00 ug/L	97
69) p-Isopropyltoluene	19.61	119	15312	0.92 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	6687	0.94 ug/L	99
71) n-Butylbenzene	20.11	91	17346	0.93 ug/L	96
72) 1,2-Dibromo-3-chloropropan	20.59	157	391	0.89 ug/L	94
73) 1,2,4-Trichlorobenzene	22.28	180	4683	1.02 ug/L	95
74) Naphthalene	22.63	128	5978	0.99 ug/L	100
75) Hexachlorobutadiene	22.68	225	2850	0.98 ug/L	89
76) 1,2,3-Trichlorobenzene	22.90	180	3451	0.93 ug/L	93

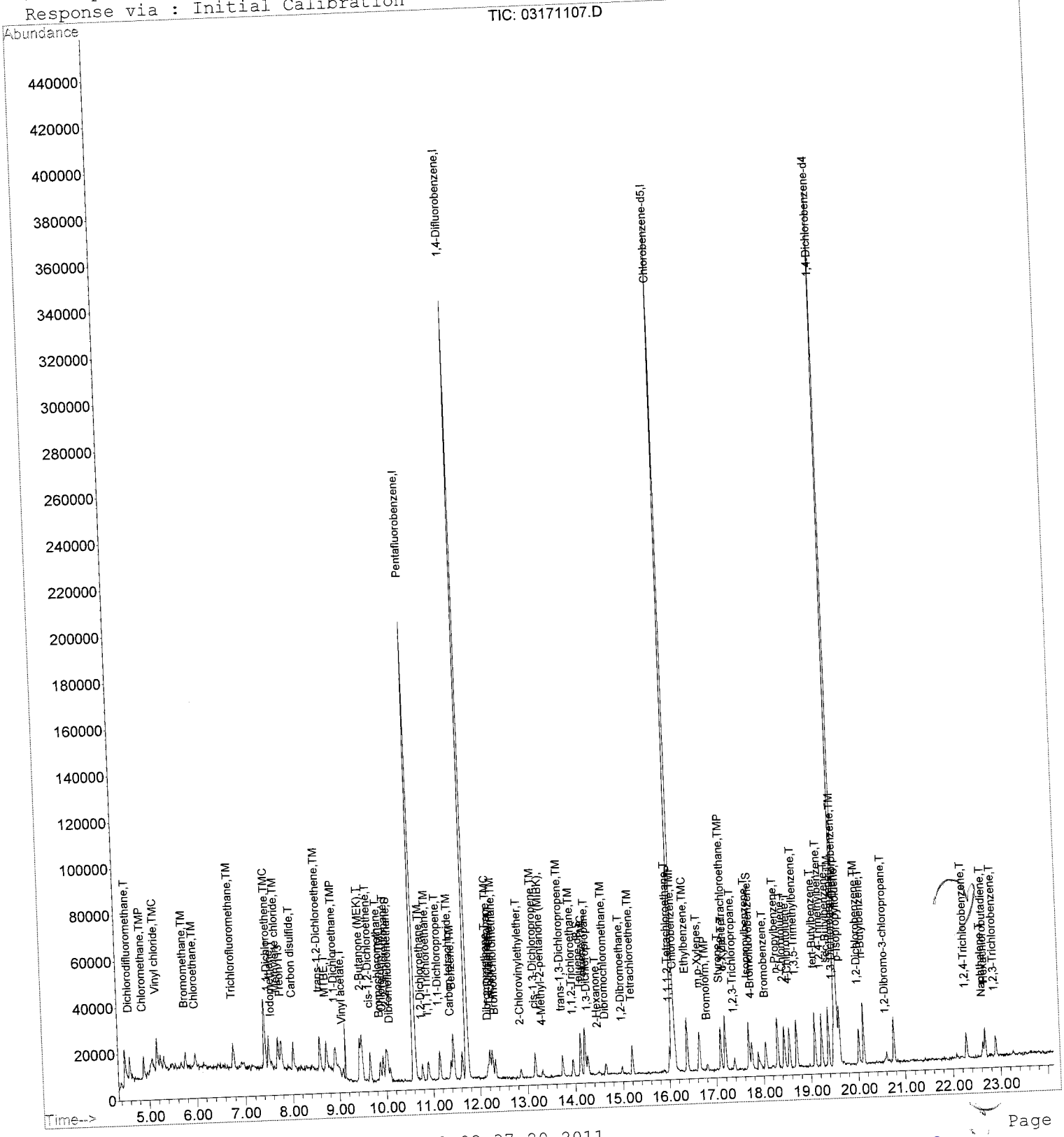
M

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171107.D Vial: 4
Acq On : 17 Mar 2011 9:43 am Operator: LC
Sample : 1.0 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	167113	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	296442	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244424	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112727	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	7767	1.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.40%	
39) Toluene-d8	14.12	98	28802	1.93 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.72%	
53) 4-Bromofluorobenzene	17.75	95	10411	1.94 ug/L	0.00
Spiked Amount 25.000			Recovery	= 7.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	15723	1.99 ug/L	96
3) Chloromethane	4.89	50	22795	1.75 ug/L	97
4) Vinyl chloride	5.18	62	22297	1.92 ug/L	95
5) Bromomethane	5.77	94	6970	1.40 ug/L	99
6) Chloroethane	5.98	64	11754	1.91 ug/L #	83
7) Trichlorofluoromethane	6.78	101	16143	2.00 ug/L	99
8) Acetone	6.94	43	4997	1.82 ug/L	99
9) Iodomethane	7.57	142	5343	1.55 ug/L	93
10) 1,1-Dichloroethene	7.51	96	8308	1.76 ug/L	96
11) Methylene chloride	7.71	84	10726	1.93 ug/L	98
12) Freon 113	7.77	101	10221	1.83 ug/L	98
13) Carbon disulfide	8.03	76	30243	1.80 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	9562	1.83 ug/L	97
15) MTBE	8.73	73	16615	1.86 ug/L	96
16) 1,1-Dichloroethane	8.92	63	20516	1.89 ug/L	98
17) Vinyl acetate	9.08	43	14566	1.72 ug/L #	95
18) 2-Butanone (MEK)	9.47	72	179	1.55 ug/L #	1
19) cis-1,2-Dichloroethene	9.67	96	10907	2.02 ug/L	92
20) Bromochloromethane	9.88	128	3627	1.84 ug/L	95
21) Chloroform	9.93	83	18162	2.02 ug/L	95
22) 2,2-Dichloropropane	10.04	77	14030	1.93 ug/L	98
24) 1,2-Dichloroethane	10.78	62	10721	1.96 ug/L #	93
25) 1,1,1-Trichloroethane	10.91	97	12034	1.87 ug/L	92
27) 1,1-Dichloropropene	11.15	75	14726	1.94 ug/L	98
28) Carbon tetrachloride	11.38	117	9830	1.88 ug/L	94
29) Benzene	11.44	78	39494	1.95 ug/L	100
30) Dibromomethane	12.17	93	4597	1.92 ug/L	92
31) 1,2-Dichloropropane	12.22	63	10960	1.93 ug/L #	96
32) Trichloroethene	12.27	95	9761	1.92 ug/L	96
33) Bromodichloromethane	12.33	83	10996	1.85 ug/L	96
34) 2-Chlorovinylethylether	12.87	63	2637	1.16 ug/L #	83
35) cis-1,3-Dichloropropene	13.16	75	13465	1.86 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.31	43	5293	1.79 ug/L #	94
37) trans-1,3-Dichloropropene	13.74	75	10352	1.86 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	5234	1.95 ug/L	96
40) Toluene	14.21	92	22811	1.98 ug/L	95
42) 1,3-Dichloropropane	14.28	76	10418	1.88 ug/L	90

(#) = qualifier out of range (m) = manual integration
03171108.D 031711.M Fri Mar 18 08:37:34 2011

3/18/11

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.48	43	2474	1.34 ug/L #	88
44) Dibromochloromethane	14.65	129	6238	1.88 ug/L	98
45) 1,2-Dibromoethane	14.99	107	5443	1.96 ug/L #	98
46) Tetrachloroethene	15.21	166	8224	1.88 ug/L	98
47) 1,1,1,2-Tetrachloroethane	16.01	131	6797	1.88 ug/L	92
48) Chlorobenzene	16.12	112	21803	1.90 ug/L	90
49) Ethylbenzene	16.38	91	40622	1.88 ug/L	100
50) m,p-Xylenes	16.64	106	14567	1.92 ug/L	98
51) Styrene	17.09	104	21955	1.91 ug/L	99
52) o-Xylene	17.19	106	14080	1.91 ug/L	99
55) Bromoform	16.81	173	2978	1.82 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	6680	2.02 ug/L	93
57) 1,2,3-Trichloropropane	17.40	110	1450	2.02 ug/L	94
58) Isopropylbenzene	17.69	105	34246	1.98 ug/L	99
59) Bromobenzene	18.05	156	7927	1.99 ug/L	96
60) n-Propylbenzene	18.30	91	47531	1.93 ug/L	98
61) 2-Chlorotoluene	18.44	91	27642	1.91 ug/L	99
62) 4-Chlorotoluene	18.55	91	28051	1.96 ug/L	98
63) 1,3,5-Trimethylbenzene	18.71	105	28488	1.91 ug/L	97
64) tert-Butylbenzene	19.09	119	24316	1.91 ug/L	95
65) 1,2,4-Trimethylbenzene	19.24	105	29321	1.96 ug/L	95
66) sec-Butylbenzene	19.38	105	43119	1.98 ug/L	97
67) 1,3-Dichlorobenzene	19.48	146	16064	1.98 ug/L	97
68) 1,4-Dichlorobenzene	19.57	146	15950	1.95 ug/L	97
69) p-Isopropyltoluene	19.61	119	32053	1.93 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	13744	1.95 ug/L	98
71) n-Butylbenzene	20.12	91	35106	1.90 ug/L	97
72) 1,2-Dibromo-3-chloropropan	20.59	157	972	2.21 ug/L #	79
73) 1,2,4-Trichlorobenzene	22.29	180	8342	1.83 ug/L	96
74) Naphthalene	22.63	128	10824	1.79 ug/L	100
75) Hexachlorobutadiene	22.68	225	5711	1.96 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	7016	1.89 ug/L	94

(#) = qualifier out of range (m) = manual integration
03171108.D 031711.M Fri Mar 18 08:37:34 2011

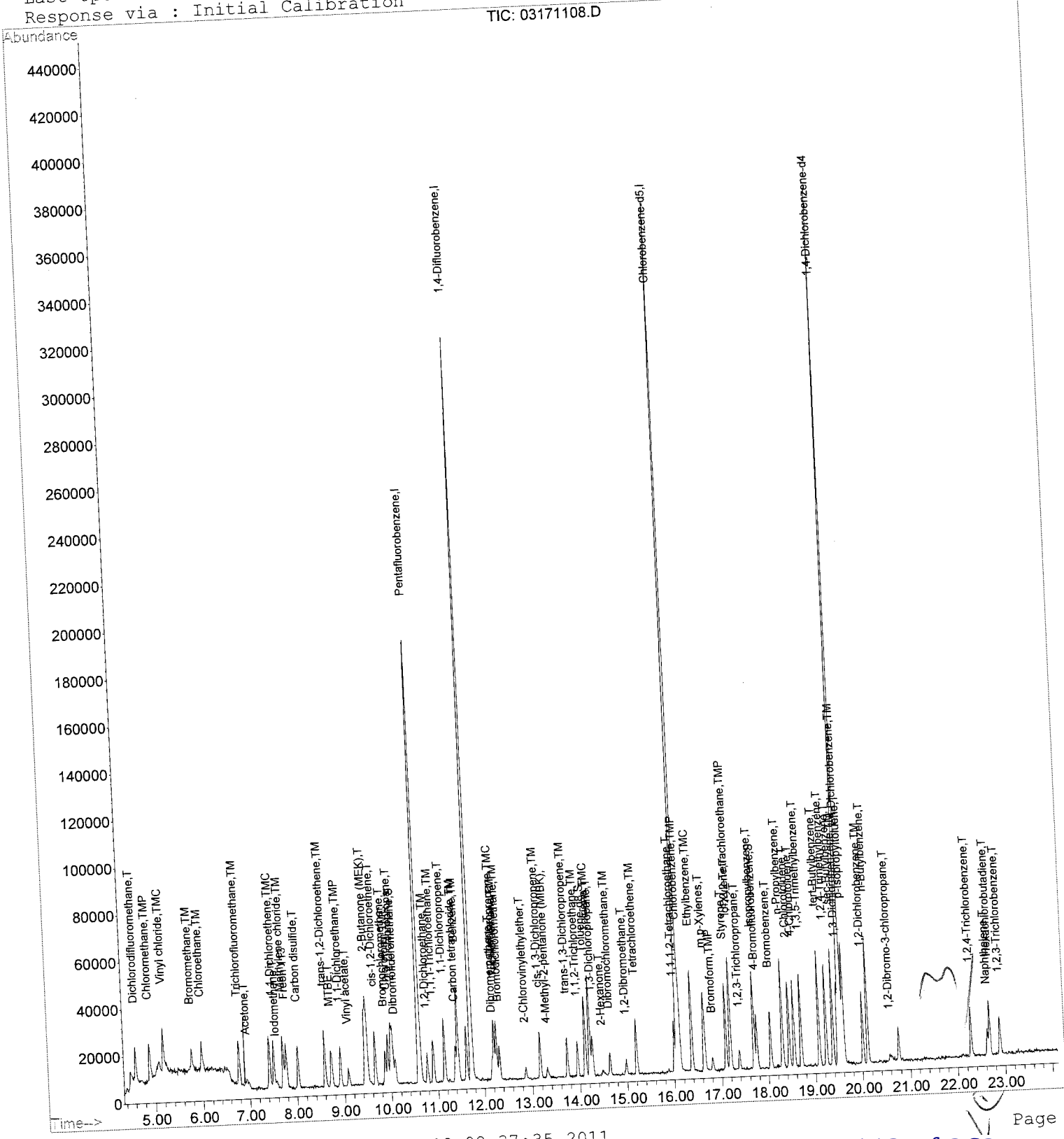
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171108.D
Acq On : 17 Mar 2011 10:14 am
Sample : 2.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 5
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171108.D 031711.M Fri Mar 18 08:37:35 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	163825	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	296778	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	247195	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115762	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	22772	5.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 22.08%	
39) Toluene-d8	14.12	98	75601	5.05 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.20%	
53) 4-Bromofluorobenzene	17.75	95	27636	5.10 ug/L	0.00
Spiked Amount 25.000			Recovery	= 20.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	43993	5.68 ug/L	96
3) Chloromethane	4.90	50	69304	5.42 ug/L	98
4) Vinyl chloride	5.18	62	59531	5.23 ug/L	97
5) Bromomethane	5.77	94	23286	4.14 ug/L	93
6) Chloroethane	5.98	64	31380	5.20 ug/L	95
7) Trichlorofluoromethane	6.78	101	44900	5.67 ug/L	97
8) Acetone	6.94	43	8551	6.12 ug/L	98
9) Iodomethane	7.57	142	19144	5.33 ug/L	97
10) 1,1-Dichloroethene	7.51	96	23635	5.12 ug/L	97
11) Methylene chloride	7.71	84	29505	5.43 ug/L	97
12) Freon 113	7.78	101	28220	5.16 ug/L	99
13) Carbon disulfide	8.03	76	88631	5.39 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	27352	5.35 ug/L	91
15) MTBE	8.74	73	47481	5.43 ug/L	99
16) 1,1-Dichloroethane	8.92	63	57409	5.38 ug/L	99
17) Vinyl acetate	9.09	43	45219	5.46 ug/L	98
18) 2-Butanone (MEK)	9.47	72	1224	5.50 ug/L #	37
19) cis-1,2-Dichloroethene	9.66	96	29437	5.56 ug/L	94
20) Bromochloromethane	9.87	128	11063	5.71 ug/L	95
21) Chloroform	9.93	83	49311	5.60 ug/L	96
22) 2,2-Dichloropropane	10.04	77	39536	5.54 ug/L	100
24) 1,2-Dichloroethane	10.78	62	29254	5.45 ug/L	98
25) 1,1,1-Trichloroethane	10.91	97	35039	5.54 ug/L	98
27) 1,1-Dichloropropene	11.15	75	40021	5.27 ug/L	98
28) Carbon tetrachloride	11.38	117	28340	5.40 ug/L	98
29) Benzene	11.44	78	106054	5.22 ug/L	98
30) Dibromomethane	12.17	93	12758	5.31 ug/L	97
31) 1,2-Dichloropropane	12.21	63	30926	5.45 ug/L	99
32) Trichloroethene	12.26	95	27719	5.46 ug/L	95
33) Bromodichloromethane	12.33	83	32710	5.49 ug/L	96
34) 2-Chlorovinylethylether	12.86	63	7315	5.89 ug/L	96
35) cis-1,3-Dichloropropene	13.17	75	39480	5.45 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.32	43	15268	5.15 ug/L	96
37) trans-1,3-Dichloropropene	13.73	75	29993	5.37 ug/L	97
38) 1,1,2-Trichloroethane	13.96	83	14498	5.40 ug/L	99
40) Toluene	14.21	92	60380	5.23 ug/L	98
42) 1,3-Dichloropropane	14.27	76	31749	5.68 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171109.D 031711.M Fri Mar 18 08:37:49 2011

MS 3/18/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	10625	5.70 ug/L #	86
44) Dibromochloromethane	14.64	129	17145	5.10 ug/L	98
45) 1,2-Dibromoethane	14.98	107	15883	5.66 ug/L #	98
46) Tetrachloroethene	15.21	166	22589	5.10 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.00	131	18388	5.02 ug/L	96
48) Chlorobenzene	16.12	112	60084	5.17 ug/L	96
49) Ethylbenzene	16.38	91	112334	5.13 ug/L	99
50) m,p-Xylenes	16.64	106	39718	5.18 ug/L	100
51) Styrene	17.09	104	62548	5.38 ug/L	98
52) o-Xylene	17.20	106	38050	5.11 ug/L	98
55) Bromoform	16.81	173	9209	5.49 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.18	83	17802	5.25 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	4203	5.70 ug/L	90
58) Isopropylbenzene	17.69	105	91339	5.15 ug/L	98
59) Bromobenzene	18.05	156	21568	5.27 ug/L	95
60) n-Propylbenzene	18.30	91	134531	5.32 ug/L	98
61) 2-Chlorotoluene	18.45	91	75803	5.11 ug/L	100
62) 4-Chlorotoluene	18.55	91	77070	5.24 ug/L	97
63) 1,3,5-Trimethylbenzene	18.70	105	79213	5.17 ug/L	100
64) tert-Butylbenzene	19.09	119	66536	5.10 ug/L	98
65) 1,2,4-Trimethylbenzene	19.23	105	78965	5.13 ug/L	99
66) sec-Butylbenzene	19.37	105	115485	5.17 ug/L	98
67) 1,3-Dichlorobenzene	19.48	146	42641	5.12 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	42358	5.05 ug/L	97
69) p-Isopropyltoluene	19.60	119	87337	5.11 ug/L	97
70) 1,2-Dichlorobenzene	20.01	146	38242	5.28 ug/L	99
71) n-Butylbenzene	20.12	91	99714	5.24 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	2137	4.73 ug/L	90
73) 1,2,4-Trichlorobenzene	22.28	180	24323	5.20 ug/L	100
74) Naphthalene	22.63	128	32491	5.23 ug/L	100
75) Hexachlorobutadiene	22.68	225	14709	4.92 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	20581	5.39 ug/L	98

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

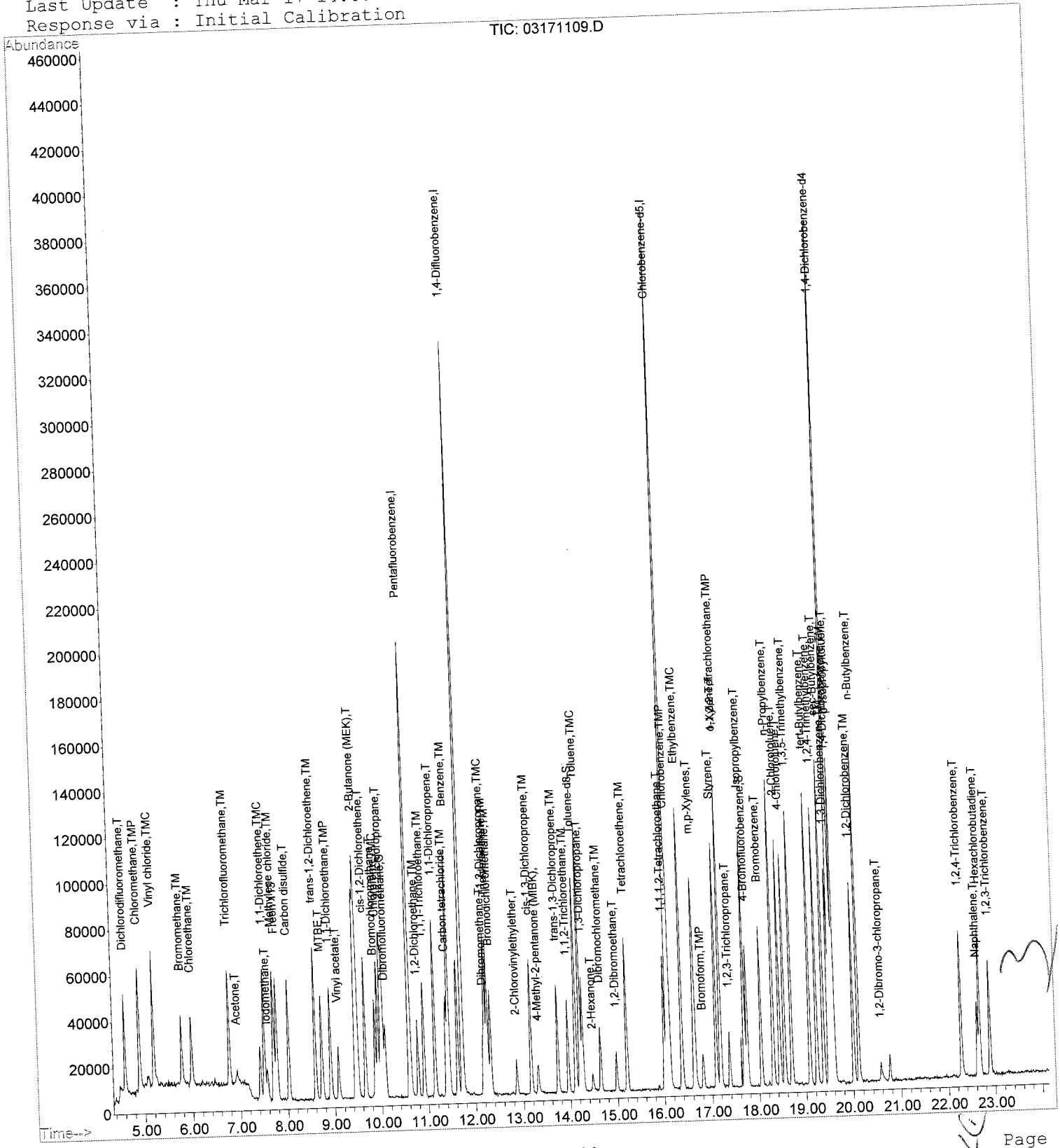
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171109.D
Acq On : 17 Mar 2011 10:45 am
Sample : 5.0 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 6
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171109.D 031711.M Fri Mar 18 08:37:50 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	166762	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	295309	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	244841	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	109771	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	42710	10.18 ug/L	0.00
Spiked Amount 25.000			Recovery	= 40.72%	
39) Toluene-d8	14.12	98	143321	9.62 ug/L	0.00
Spiked Amount 25.000			Recovery	= 38.48%	
53) 4-Bromofluorobenzene	17.75	95	50923	9.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 37.96%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	79957	10.15 ug/L	99
3) Chloromethane	4.89	50	135497	10.40 ug/L	99
4) Vinyl chloride	5.19	62	111850	9.64 ug/L	99
5) Bromomethane	5.78	94	53427	9.01 ug/L	95
6) Chloroethane	5.98	64	63788	10.38 ug/L	99
7) Trichlorofluoromethane	6.78	101	85392	10.59 ug/L	98
8) Acetone	6.94	43	11502	9.36 ug/L	99
9) Iodomethane	7.57	142	36401	9.84 ug/L	98
10) 1,1-Dichloroethene	7.51	96	46909	9.97 ug/L	96
11) Methylene chloride	7.71	84	55460	10.02 ug/L	99
12) Freon 113	7.78	101	52409	9.41 ug/L	98
13) Carbon disulfide	8.03	76	162804	9.73 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	51126	9.82 ug/L	96
15) MTBE	8.74	73	84759	9.53 ug/L	97
16) 1,1-Dichloroethane	8.92	63	108838	10.03 ug/L	99
17) Vinyl acetate	9.09	43	81810	9.70 ug/L	100
18) 2-Butanone (MEK)	9.47	72	2658	10.73 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	53573	9.94 ug/L	99
20) Bromochloromethane	9.88	128	20976	10.64 ug/L	95
21) Chloroform	9.93	83	95119	10.62 ug/L	99
22) 2,2-Dichloropropane	10.04	77	73939	10.18 ug/L	100
24) 1,2-Dichloroethane	10.77	62	53618	9.81 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	66517	10.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	77127	10.20 ug/L	98
28) Carbon tetrachloride	11.39	117	54162	10.38 ug/L	98
29) Benzene	11.44	78	201076	9.95 ug/L	99
30) Dibromomethane	12.17	93	24596	10.29 ug/L	97
31) 1,2-Dichloropropane	12.21	63	55294	9.80 ug/L	99
32) Trichloroethene	12.27	95	49861	9.87 ug/L	99
33) Bromodichloromethane	12.33	83	60334	10.17 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	12810	11.51 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	73950	10.27 ug/L	98
36) 4-Methyl-2-pentanone (MIBK	13.31	43	28976	9.82 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	56973	10.25 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	27640	10.34 ug/L	99
40) Toluene	14.21	92	114354	9.95 ug/L	98
42) 1,3-Dichloropropane	14.27	76	56624	10.22 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171110.D 031711.M Fri Mar 18 08:38:05 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	17603	9.53 ug/L #	98
44) Dibromochloromethane	14.64	129	32389	9.72 ug/L	99
45) 1,2-Dibromoethane	14.98	107	28536	10.26 ug/L	97
46) Tetrachloroethene	15.21	166	44478	10.13 ug/L	97
47) 1,1,1,2-Tetrachloroethane	16.01	131	35495	9.79 ug/L	98
48) Chlorobenzene	16.12	112	113625	9.87 ug/L	99
49) Ethylbenzene	16.38	91	215370	9.93 ug/L	100
50) m,p-Xylenes	16.64	106	74201	9.77 ug/L	99
51) Styrene	17.09	104	115227	10.01 ug/L	99
52) o-Xylene	17.20	106	71920	9.74 ug/L	100
55) Bromoform	16.81	173	16316	10.27 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	33308	10.36 ug/L #	97
57) 1,2,3-Trichloropropane	17.39	110	7243	10.36 ug/L	91
58) Isopropylbenzene	17.69	105	176438	10.50 ug/L	99
59) Bromobenzene	18.05	156	40825	10.53 ug/L	98
60) n-Propylbenzene	18.30	91	250684	10.45 ug/L	99
61) 2-Chlorotoluene	18.45	91	143690	10.22 ug/L	100
62) 4-Chlorotoluene	18.55	91	141563	10.16 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	151285	10.42 ug/L	98
64) tert-Butylbenzene	19.09	119	128292	10.37 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	149598	10.25 ug/L	100
66) sec-Butylbenzene	19.37	105	214687	10.13 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	80400	10.17 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	78217	9.83 ug/L	99
69) p-Isopropyltoluene	19.61	119	168592	10.41 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	69024	10.04 ug/L	98
71) n-Butylbenzene	20.12	91	183374	10.17 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	4643	10.84 ug/L	98
73) 1,2,4-Trichlorobenzene	22.28	180	41924	9.44 ug/L	100
74) Naphthalene	22.63	128	55616	9.45 ug/L	100
75) Hexachlorobutadiene	22.68	225	29027	10.24 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	34759	9.60 ug/L	98

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

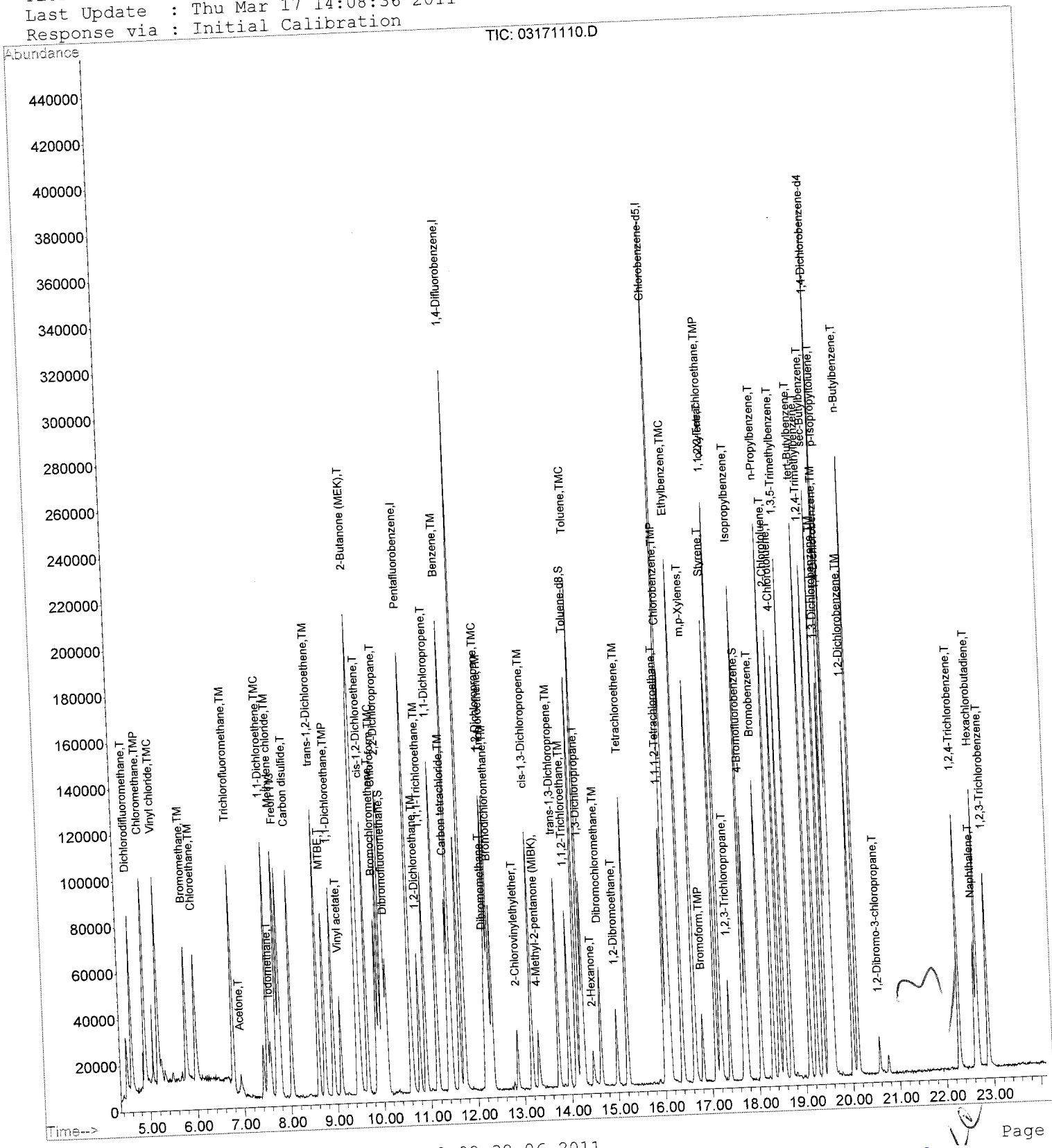
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171110.D
Acq On : 17 Mar 2011 11:15 am
Sample : 10 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:37 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171110.D 031711.M Fri Mar 18 08:38:06 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Re-Cal

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	164363	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	291205	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	242488	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	112264	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	103380	25.00 ug/L	0.00
Spiked Amount 25.000			Recovery	= 100.00%	
39) Toluene-d8	14.12	98	359841	24.50 ug/L	0.00
Spiked Amount 25.000			Recovery	= 98.00%	
53) 4-Bromofluorobenzene	17.75	95	128707	24.22 ug/L	0.00
Spiked Amount 25.000			Recovery	= 96.88%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	200064	25.77 ug/L	100
3) Chloromethane	4.89	50	322628	25.13 ug/L	100
4) Vinyl chloride	5.18	62	283499	24.80 ug/L	100
5) Bromomethane	5.78	94	141242	23.74 ug/L	100
6) Chloroethane	5.98	64	150117	24.77 ug/L	100
7) Trichlorofluoromethane	6.78	101	214158	26.95 ug/L	100
8) Acetone	6.94	43	25928	26.49 ug/L	100
9) Iodomethane	7.57	142	98109	26.69 ug/L	100
10) 1,1-Dichloroethene	7.51	96	111502	24.05 ug/L	100
11) Methylene chloride	7.71	84	132209	24.24 ug/L	100
12) Freon 113	7.77	101	133636	24.35 ug/L	100
13) Carbon disulfide	8.03	76	401884	24.37 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	126832	24.73 ug/L	100
15) MTBE	8.74	73	214946	24.52 ug/L	100
16) 1,1-Dichloroethane	8.92	63	264682	24.74 ug/L	100
17) Vinyl acetate	9.08	43	202265	24.34 ug/L	100
18) 2-Butanone (MEK)	9.47	72	6903	26.82 ug/L	100
19) cis-1,2-Dichloroethene	9.66	96	131490	24.75 ug/L	100
20) Bromochloromethane	9.87	128	47437	24.40 ug/L	100
21) Chloroform	9.93	83	218360	24.73 ug/L	100
22) 2,2-Dichloropropane	10.04	77	180118	25.16 ug/L	100
24) 1,2-Dichloroethane	10.78	62	136474	25.33 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	162207	25.58 ug/L	100
27) 1,1-Dichloropropene	11.15	75	191506	25.69 ug/L	100
28) Carbon tetrachloride	11.39	117	133369	25.91 ug/L	100
29) Benzene	11.44	78	490622	24.62 ug/L	100
30) Dibromomethane	12.17	93	58067	24.63 ug/L	100
31) 1,2-Dichloropropane	12.21	63	140014	25.15 ug/L	100
32) Trichloroethene	12.27	95	124690	25.02 ug/L	100
33) Bromodichloromethane	12.33	83	150764	25.77 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	29010	28.39 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	183565	25.85 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.31	43	71494	24.58 ug/L	100
37) trans-1,3-Dichloropropene	13.73	75	141331	25.79 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	66374	25.19 ug/L	100
40) Toluene	14.21	92	282149	24.90 ug/L	100
42) 1,3-Dichloropropane	14.27	76	140210	25.55 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031711.M Fri Mar 18 08:38:20 2011

ml 3/17/11
LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.47	43	44449	24.30 ug/L #	100
44) Dibromochloromethane	14.64	129	81864	24.81 ug/L	100
45) 1,2-Dibromoethane	14.98	107	70424	25.57 ug/L	100
46) Tetrachloroethene	15.21	166	109364	25.15 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.01	131	87769	24.44 ug/L	100
48) Chlorobenzene	16.12	112	284407	24.96 ug/L	100
49) Ethylbenzene	16.37	91	538674	25.09 ug/L	100
50) m,p-Xylenes	16.64	106	186494	24.80 ug/L	100
51) Styrene	17.09	104	295005	25.87 ug/L	100
52) o-Xylene	17.19	106	177920	24.34 ug/L	100
55) Bromoform	16.81	173	42372	26.07 ug/L	100
56) 1,1,2,2-Tetrachloroethane	17.18	83	82184	25.00 ug/L	100
57) 1,2,3-Trichloropropane	17.38	110	18834	26.34 ug/L	100
58) Isopropylbenzene	17.69	105	445254	25.90 ug/L	100
59) Bromobenzene	18.05	156	105054	26.49 ug/L	100
60) n-Propylbenzene	18.30	91	632559	25.78 ug/L	100
61) 2-Chlorotoluene	18.44	91	364433	25.35 ug/L	100
62) 4-Chlorotoluene	18.55	91	369067	25.89 ug/L	100
63) 1,3,5-Trimethylbenzene	18.70	105	381972	25.71 ug/L	100
64) tert-Butylbenzene	19.09	119	324112	25.63 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	382900	25.64 ug/L	100
66) sec-Butylbenzene	19.37	105	556785	25.69 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	205642	25.45 ug/L	100
68) 1,4-Dichlorobenzene	19.57	146	201942	24.82 ug/L	100
69) p-Isopropyltoluene	19.61	119	434002	26.19 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	178826	25.44 ug/L	100
71) n-Butylbenzene	20.12	91	487367	26.43 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	11318	25.84 ug/L	100
73) 1,2,4-Trichlorobenzene	22.28	180	122376	26.96 ug/L	100
74) Naphthalene	22.63	128	163821	27.21 ug/L	100
75) Hexachlorobutadiene	22.69	225	76790	26.49 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	101564	27.44 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171111.D 031711.M Fri Mar 18 08:38:21 2011

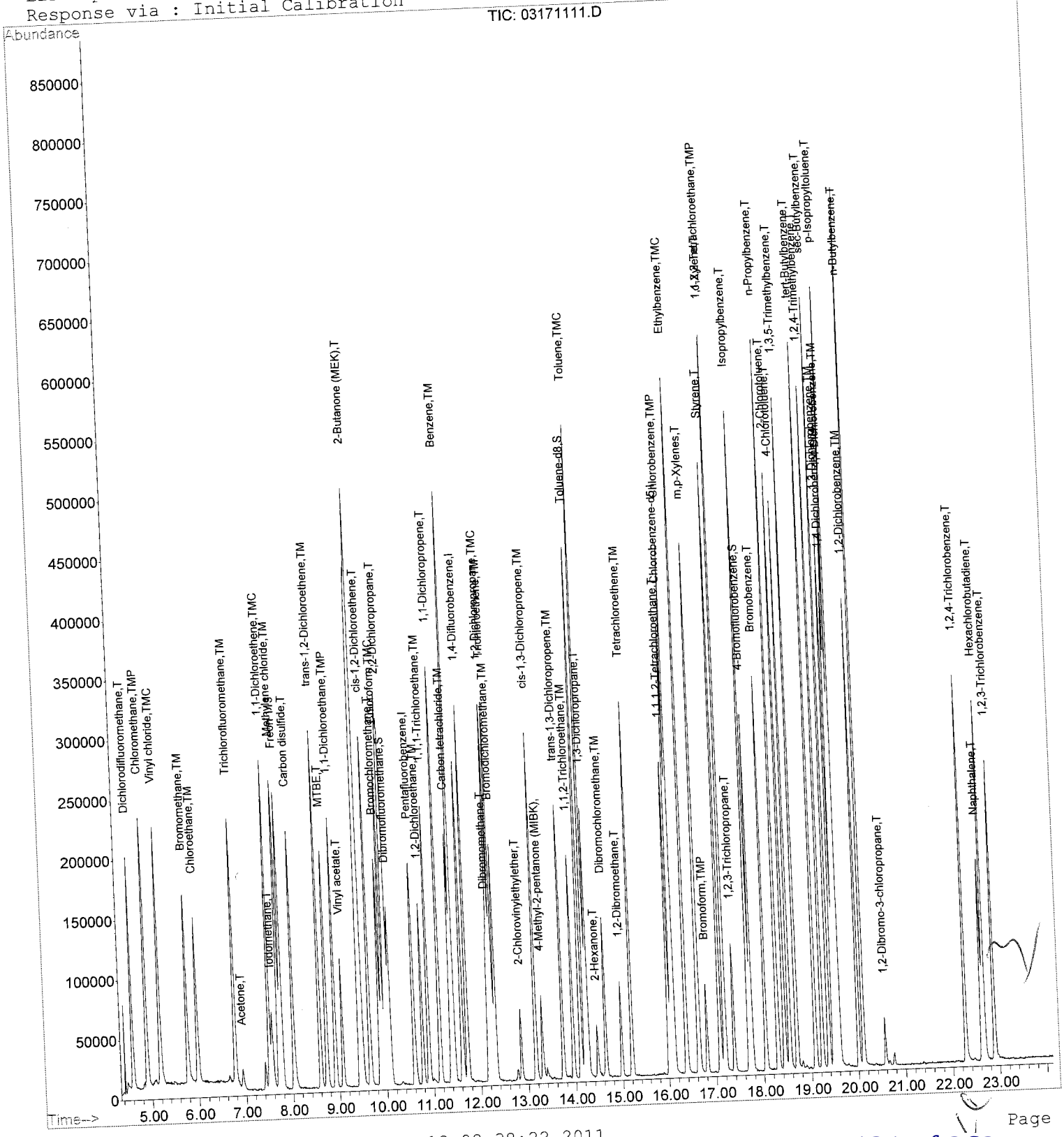
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171111.D
Acq On : 17 Mar 2011 11:46 am
Sample : 25 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03171111.D 031711.M Fri Mar 18 08:38:22 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	172725	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	302991	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251334	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	115948	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	202044	46.49 ug/L	0.00
Spiked Amount 25.000			Recovery	= 185.96%	
39) Toluene-d8	14.11	98	726789	47.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 190.24%	
53) 4-Bromofluorobenzene	17.76	95	259969	47.19 ug/L	0.00
Spiked Amount 25.000			Recovery	= 188.76%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	391099	47.93 ug/L	98
3) Chloromethane	4.90	50	687656	50.97 ug/L	99
4) Vinyl chloride	5.18	62	596978	49.70 ug/L	98
5) Bromomethane	5.78	94	296252	47.13 ug/L	98
6) Chloroethane	5.99	64	300876	47.25 ug/L	99
7) Trichlorofluoromethane	6.78	101	340516	40.77 ug/L	97
8) Acetone	6.93	43	44278	45.51 ug/L	99
9) Iodomethane	7.58	142	195341	50.45 ug/L	98
10) 1,1-Dichloroethene	7.52	96	220268	45.21 ug/L	99
11) Methylene chloride	7.71	84	264019	46.07 ug/L	99
12) Freon 113	7.78	101	262900	45.58 ug/L	99
13) Carbon disulfide	8.03	76	807912	46.61 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	248724	46.15 ug/L	98
15) MTBE	8.73	73	407385	44.23 ug/L	99
16) 1,1-Dichloroethane	8.92	63	517515	46.02 ug/L	99
17) Vinyl acetate	9.08	43	400997	45.91 ug/L	99
18) 2-Butanone (MEK)	9.47	72	13656	49.70 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	257331	46.10 ug/L	99
20) Bromochloromethane	9.87	128	96376	47.18 ug/L	96
21) Chloroform	9.93	83	424654	45.77 ug/L	99
22) 2,2-Dichloropropane	10.03	77	364919	48.51 ug/L	99
24) 1,2-Dichloroethane	10.78	62	261605	46.20 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	323769	48.60 ug/L	99
27) 1,1-Dichloropropene	11.15	75	381624	49.20 ug/L	99
28) Carbon tetrachloride	11.39	117	268038	50.05 ug/L	100
29) Benzene	11.44	78	1008066	48.61 ug/L	98
30) Dibromomethane	12.17	93	116662	47.55 ug/L	98
31) 1,2-Dichloropropane	12.21	63	281688	48.64 ug/L	100
32) Trichloroethene	12.26	95	255144	49.21 ug/L	99
33) Bromodichloromethane	12.33	83	300337	49.34 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	52192	50.19 ug/L	97
35) cis-1,3-Dichloropropene	13.17	75	364674	49.35 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	143476	47.40 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	289421	50.75 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	131924	48.12 ug/L	99
40) Toluene	14.22	92	583744	49.52 ug/L	98
42) 1,3-Dichloropropane	14.27	76	277506	48.79 ug/L	97

(#) = qualifier out of range (m) = manual integration
03171112.D 031711.M Fri Mar 18 08:38:39 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	96547	50.92 ug/L #	94
44) Dibromochloromethane	14.65	129	168655	49.32 ug/L	98
45) 1,2-Dibromoethane	14.98	107	142279	49.83 ug/L	97
46) Tetrachloroethene	15.20	166	223148	49.50 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	180404	48.47 ug/L	97
48) Chlorobenzene	16.12	112	576756	48.83 ug/L	99
49) Ethylbenzene	16.38	91	1095906	49.25 ug/L	100
50) m,p-Xylenes	16.64	106	376516	48.30 ug/L	98
51) Styrene	17.10	104	602783	50.99 ug/L	99
52) o-Xylene	17.20	106	366193	48.33 ug/L	97
55) Bromoform	16.82	173	87491	52.11 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	166424	49.02 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	37111	50.24 ug/L	96
58) Isopropylbenzene	17.70	105	904235	50.93 ug/L	99
59) Bromobenzene	18.05	156	210716	51.44 ug/L	99
60) n-Propylbenzene	18.30	91	1279523	50.48 ug/L	100
61) 2-Chlorotoluene	18.45	91	736550	49.60 ug/L	100
62) 4-Chlorotoluene	18.55	91	740782	50.32 ug/L	100
63) 1,3,5-Trimethylbenzene	18.70	105	763223	49.75 ug/L	100
64) tert-Butylbenzene	19.09	119	661664	50.66 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	772492	50.09 ug/L	99
66) sec-Butylbenzene	19.38	105	1121222	50.08 ug/L	100
67) 1,3-Dichlorobenzene	19.49	146	414698	49.68 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	411367	48.95 ug/L	98
69) p-Isopropyltoluene	19.61	119	866615	50.64 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	359735	49.55 ug/L	99
71) n-Butylbenzene	20.11	91	964633	50.65 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	22554	49.85 ug/L	91
73) 1,2,4-Trichlorobenzene	22.28	180	240360	51.26 ug/L	99
74) Naphthalene	22.63	128	314469	50.58 ug/L	100
75) Hexachlorobutadiene	22.68	225	150589	50.29 ug/L	100
76) 1,2,3-Trichlorobenzene	22.90	180	192513	50.36 ug/L	99

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

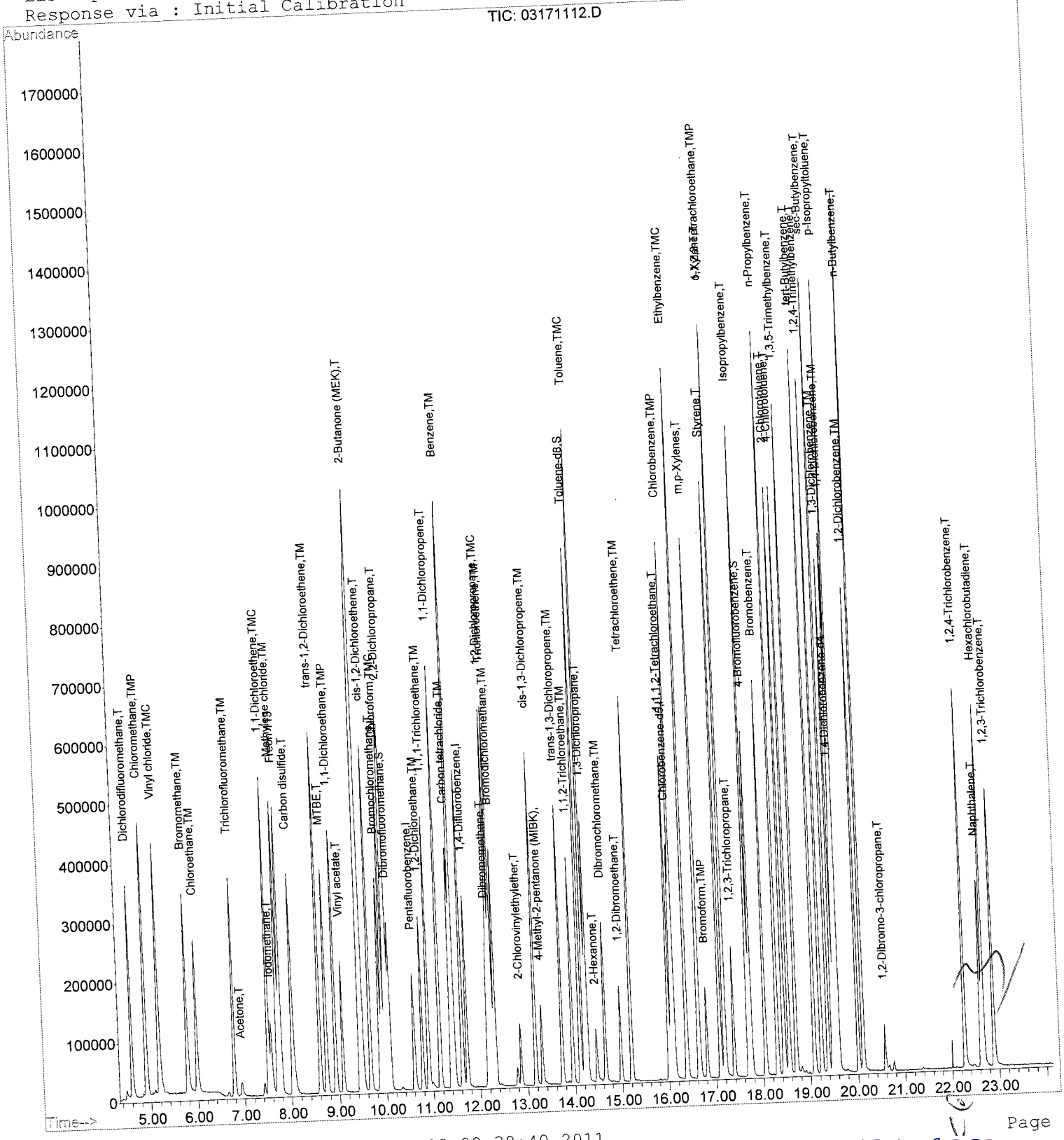
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171112.D
Acq On : 17 Mar 2011 12:17 pm
Sample : 50 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D Vial: 10
Acq On : 17 Mar 2011 12:48 pm Operator: LC
Sample : 100 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	175118	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	309261	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	251109	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	119502	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	425047	96.46 ug/L	0.00
Spiked Amount 25.000			Recovery	= 385.84%	
39) Toluene-d8	14.12	98	1505447	96.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 386.08%	
53) 4-Bromofluorobenzene	17.75	95	536695	97.52 ug/L	0.00
Spiked Amount 25.000			Recovery	= 390.08%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	779223	94.19 ug/L	98
3) Chloromethane	4.90	50	1431368	104.65 ug/L	99
4) Vinyl chloride	5.18	62	1228117	100.85 ug/L	100
5) Bromomethane	5.78	94	641424	100.36 ug/L	98
6) Chloroethane	5.98	64	584071	90.47 ug/L	100
7) Trichlorofluoromethane	6.78	101	698452	82.49 ug/L	98
8) Acetone	6.94	43	84316	88.94 ug/L	97
9) Iodomethane	7.58	142	393011	100.00 ug/L	99
10) 1,1-Dichloroethene	7.52	96	450680	91.25 ug/L	99
11) Methylene chloride	7.71	84	530536	91.30 ug/L	99
12) Freon 113	7.78	101	537890	91.98 ug/L	99
13) Carbon disulfide	8.04	76	1652598	94.04 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	514680	94.19 ug/L	96
15) MTBE	8.74	73	859812	92.07 ug/L	99
16) 1,1-Dichloroethane	8.93	63	1054794	92.52 ug/L	99
17) Vinyl acetate	9.08	43	827230	93.42 ug/L	99
18) 2-Butanone (MEK)	9.47	72	27904	99.26 ug/L	96
19) cis-1,2-Dichloroethene	9.66	96	527963	93.29 ug/L	99
20) Bromochloromethane	9.87	128	191014	92.23 ug/L	94
21) Chloroform	9.93	83	877382	93.27 ug/L	100
22) 2,2-Dichloropropane	10.04	77	739530	96.96 ug/L	99
24) 1,2-Dichloroethane	10.78	62	540824	94.21 ug/L	99
25) 1,1,1-Trichloroethane	10.91	97	659685	97.66 ug/L	98
27) 1,1-Dichloropropene	11.15	75	764611	96.58 ug/L	98
28) Carbon tetrachloride	11.39	117	547122	100.10 ug/L	100
29) Benzene	11.44	78	2051183	96.91 ug/L	99
30) Dibromomethane	12.17	93	236182	94.32 ug/L	99
31) 1,2-Dichloropropane	12.21	63	573859	97.07 ug/L	99
32) Trichloroethene	12.27	95	518186	97.91 ug/L	100
33) Bromodichloromethane	12.33	83	619726	99.74 ug/L	99
34) 2-Chlorovinylethylether	12.86	63	99299	94.85 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	755768	100.21 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	309174	100.07 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	581943	99.98 ug/L	100
38) 1,1,2-Trichloroethane	13.95	83	272981	97.54 ug/L	99
40) Toluene	14.22	92	1181672	98.20 ug/L	98
42) 1,3-Dichloropropane	14.27	76	562918	99.07 ug/L	98

(#) = qualifier out of range (m) = manual integration
03171113.D 031711.M Fri Mar 18 08:38:55 2011

LC 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	203381	107.35 ug/L #	96
44) Dibromochloromethane	14.65	129	341882	100.06 ug/L	98
45) 1,2-Dibromoethane	14.98	107	294156	103.12 ug/L	99
46) Tetrachloroethene	15.20	166	455622	101.17 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.01	131	371997	100.03 ug/L	98
48) Chlorobenzene	16.12	112	1190206	100.85 ug/L	99
49) Ethylbenzene	16.38	91	2245318	100.99 ug/L	100
50) m,p-Xylenes	16.64	106	773283	99.30 ug/L	100
51) Styrene	17.10	104	1244691	105.39 ug/L	99
52) o-Xylene	17.20	106	750628	99.16 ug/L	97
55) Bromoform	16.82	173	182147	105.27 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.18	83	341207	97.52 ug/L	98
57) 1,2,3-Trichloropropane	17.38	110	75618	99.33 ug/L	96
58) Isopropylbenzene	17.70	105	1844526	100.80 ug/L	100
59) Bromobenzene	18.05	156	429425	101.72 ug/L	99
60) n-Propylbenzene	18.30	91	2615929	100.14 ug/L	100
61) 2-Chlorotoluene	18.45	91	1500663	98.05 ug/L	99
62) 4-Chlorotoluene	18.55	91	1492720	98.39 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	1584063	100.18 ug/L	99
64) tert-Butylbenzene	19.09	119	1344278	99.86 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	1578520	99.31 ug/L	99
66) sec-Butylbenzene	19.39	105	2280043	98.81 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	847018	98.46 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	846913	97.78 ug/L	98
69) p-Isopropyltoluene	19.61	119	1785874	101.26 ug/L	100
70) 1,2-Dichlorobenzene	20.02	146	731103	97.71 ug/L	100
71) n-Butylbenzene	20.12	91	1981760	100.96 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.58	157	45883	98.40 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	510699	105.68 ug/L	99
74) Naphthalene	22.63	128	678287	105.85 ug/L	100
75) Hexachlorobutadiene	22.69	225	316227	102.46 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	412634	104.74 ug/L	100

(#) = qualifier out of range (m) = manual integration
03171113.D 031711.M Fri Mar 18 08:38:56 2011

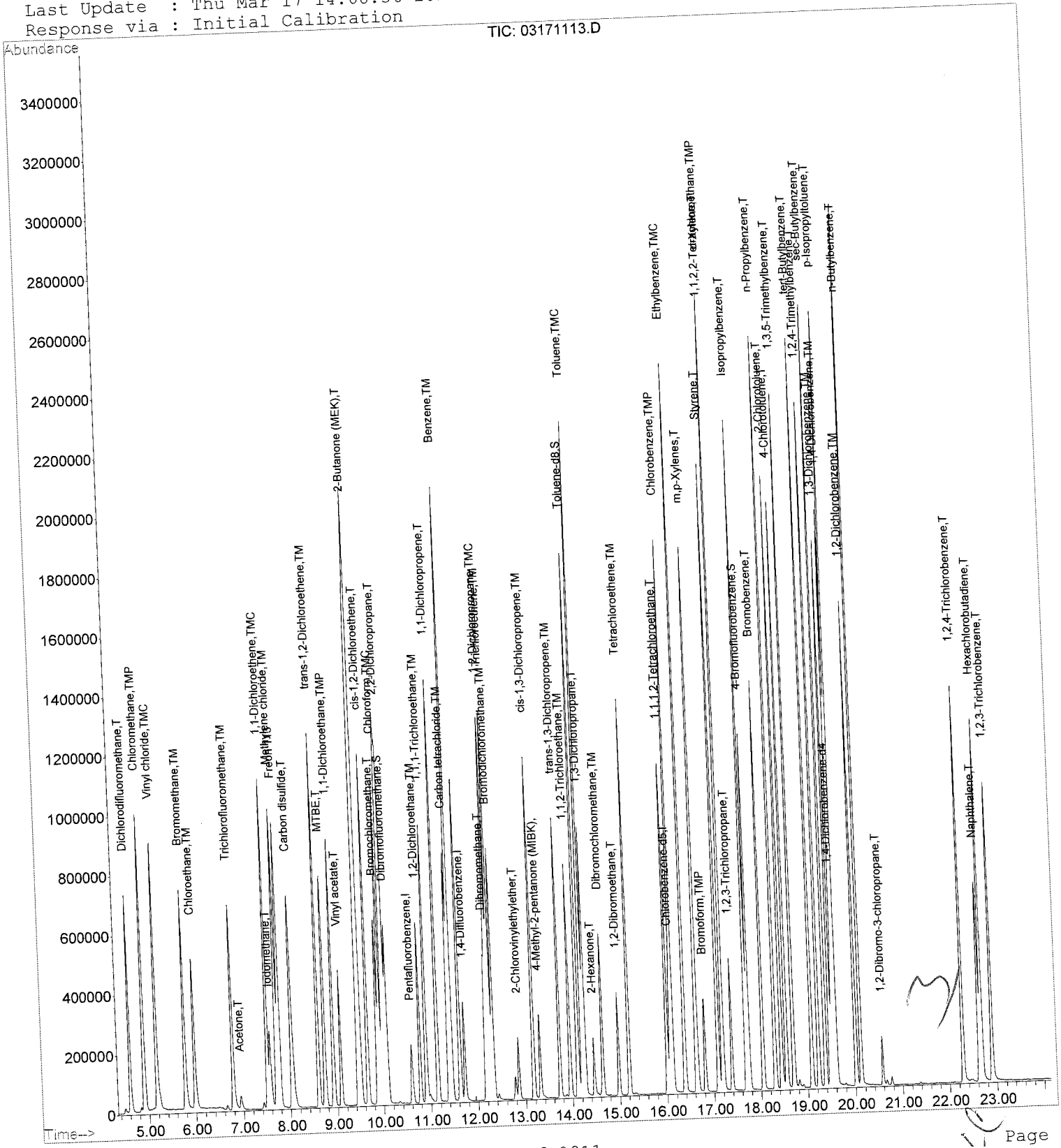
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171113.D
Acq On : 17 Mar 2011 12:48 pm
Sample : 100 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:38 2011

Vial: 10
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D Vial: 12
Acq On : 17 Mar 2011 1:19 pm Operator: LC
Sample : 200 PPB Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011 Quant Results File: 031711.RES

Re-Calc

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.61	168	178600	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.73	114	310266	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	255060	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.54	152	136098	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.09	113	839626	186.83 ug/L	0.00
Spiked Amount 25.000			Recovery	= 747.32%	
39) Toluene-d8	14.12	98	3013932	192.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 770.40%	
53) 4-Bromofluorobenzene	17.76	95	1038923	185.85 ug/L	0.00
Spiked Amount 25.000			Recovery	= 743.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.60	85	1487523	176.30 ug/L	98
3) Chloromethane	4.90	50	2913054	208.82 ug/L	99
4) Vinyl chloride	5.16	62	2428967	195.57 ug/L	100
5) Bromomethane	5.78	94	1343422	205.83 ug/L	97
6) Chloroethane	5.98	64	1199344	182.14 ug/L	100
7) Trichlorofluoromethane	6.79	101	1701514	197.03 ug/L	99
8) Acetone	6.94	43	201529	213.75 ug/L	98
9) Iodomethane	7.58	142	794173	198.00 ug/L	98
10) 1,1-Dichloroethene	7.52	96	920511	182.74 ug/L	98
11) Methylene chloride	7.71	84	1063508	179.46 ug/L	97
12) Freon 113	7.78	101	1079115	180.94 ug/L	98
13) Carbon disulfide	8.03	76	3312605	184.83 ug/L	100
14) trans-1,2-Dichloroethene	8.60	96	1036042	185.90 ug/L	97
15) MTBE	8.74	73	1719756	180.56 ug/L	100
16) 1,1-Dichloroethane	8.93	63	2105414	181.08 ug/L	99
17) Vinyl acetate	9.08	43	1660788	183.90 ug/L	99
18) 2-Butanone (MEK)	9.47	72	57153	198.44 ug/L	87
19) cis-1,2-Dichloroethene	9.66	96	1073476	185.99 ug/L	98
20) Bromochloromethane	9.88	128	361702	171.24 ug/L	95
21) Chloroform	9.93	83	1746080	182.00 ug/L	99
22) 2,2-Dichloropropane	10.04	77	1448285	186.19 ug/L	98
24) 1,2-Dichloroethane	10.78	62	1056987	180.53 ug/L	100
25) 1,1,1-Trichloroethane	10.91	97	1325051	192.34 ug/L	98
27) 1,1-Dichloropropene	11.15	75	1539559	193.84 ug/L	99
28) Carbon tetrachloride	11.39	117	1092097	199.16 ug/L	100
29) Benzene	11.45	78	4061777	191.29 ug/L	99
30) Dibromomethane	12.17	93	461244	183.60 ug/L	98
31) 1,2-Dichloropropane	12.21	63	1126863	190.00 ug/L	100
32) Trichloroethene	12.27	95	1022222	192.52 ug/L	98
33) Bromodichloromethane	12.33	83	1217593	195.34 ug/L	100
34) 2-Chlorovinylethylether	12.86	63	174106	166.89 ug/L	100
35) cis-1,3-Dichloropropene	13.17	75	1495017	197.58 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	605768	195.44 ug/L	99
37) trans-1,3-Dichloropropene	13.73	75	1148388	196.66 ug/L	99
38) 1,1,2-Trichloroethane	13.95	83	536251	191.00 ug/L	100
40) Toluene	14.22	92	2368495	196.20 ug/L	98
42) 1,3-Dichloropropane	14.28	76	1107954	191.97 ug/L	98

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

ML 3/17/11
VO 03/18/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	396743	206.17 ug/L #	96
44) Dibromochloromethane	14.65	129	686033	197.67 ug/L	99
45) 1,2-Dibromoethane	14.99	107	575405	198.59 ug/L	99
46) Tetrachloroethene	15.20	166	914229	199.85 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.02	131	755965	200.14 ug/L	96
48) Chlorobenzene	16.13	112	2393108	199.64 ug/L	97
49) Ethylbenzene	16.38	91	4465000	197.71 ug/L	99
50) m,p-Xylenes	16.64	106	1550944	196.07 ug/L	99
51) Styrene	17.10	104	2561762	213.54 ug/L	98
52) o-Xylene	17.20	106	1517247	197.33 ug/L	97
55) Bromoform	16.82	173	364089	184.76 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.19	83	656346	164.71 ug/L	97
57) 1,2,3-Trichloropropane	17.38	110	155202	179.01 ug/L	97
58) Isopropylbenzene	17.70	105	3655213	175.39 ug/L	99
59) Bromobenzene	18.05	156	865850	180.09 ug/L	98
60) n-Propylbenzene	18.31	91	5305462	178.33 ug/L	99
61) 2-Chlorotoluene	18.45	91	3128722	179.50 ug/L	99
62) 4-Chlorotoluene	18.56	91	3203621	185.40 ug/L	98
63) 1,3,5-Trimethylbenzene	18.70	105	3485140	193.53 ug/L	98
64) tert-Butylbenzene	19.09	119	2997423	195.51 ug/L	99
65) 1,2,4-Trimethylbenzene	19.24	105	3435108	189.77 ug/L	98
66) sec-Butylbenzene	19.39	105	5038432	191.73 ug/L	99
67) 1,3-Dichlorobenzene	19.49	146	1885851	192.49 ug/L	99
68) 1,4-Dichlorobenzene	19.57	146	1902798	192.90 ug/L	99
69) p-Isopropyltoluene	19.61	119	4021709	200.23 ug/L	99
70) 1,2-Dichlorobenzene	20.02	146	1645465	193.10 ug/L	99
71) n-Butylbenzene	20.12	91	4374192	195.66 ug/L	98
72) 1,2-Dibromo-3-chloropropan	20.58	157	102361	192.76 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	1107731	201.28 ug/L	98
74) Naphthalene	22.63	128	1413680	193.70 ug/L	100
75) Hexachlorobutadiene	22.69	225	688401	195.85 ug/L	99
76) 1,2,3-Trichlorobenzene	22.90	180	830638	185.13 ug/L	99

(#) = qualifier out of range (m) = manual integration
03171114.D 031711.M Fri Mar 18 08:39:11 2011

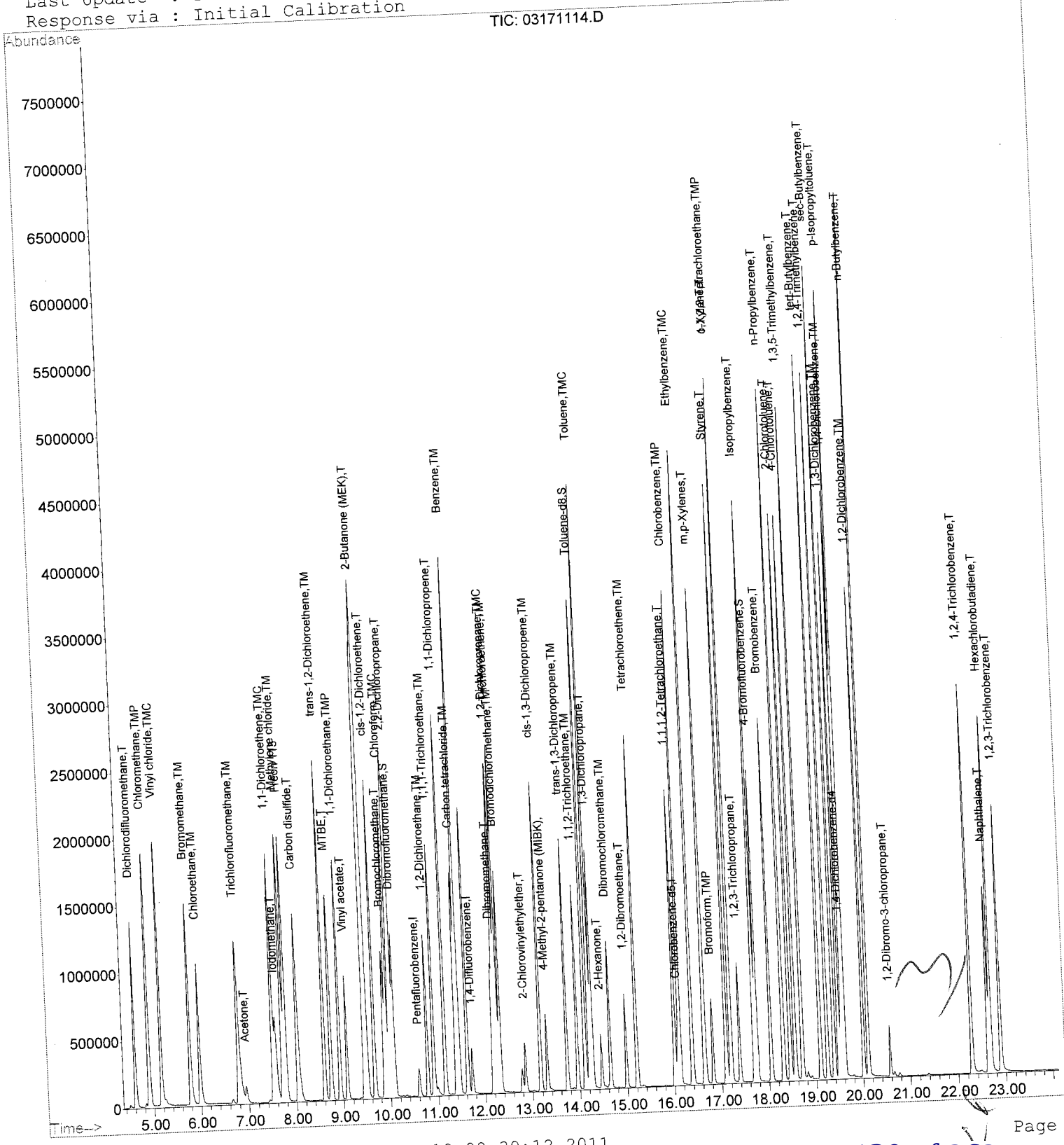
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\031711\03171114.D
Acq On : 17 Mar 2011 1:19 pm
Sample : 200 PPB
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 18 8:39 2011

Vial: 12
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: 8260B

DATE: 03/22/2011

WORK ORDER: PUC1113

ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-VOA-001 R.1
GC/MS Volatile Organic Analysis [Method No. EPA 624 & 8260B]

Analyst: LL

Analysis Date: 03/22/11

Description	Yes	No	NA[1]
1. BFB (50 ng or less): Verify meets criteria every 12 hours	✓		
2. Initial Calibration Curve (5 levels)	✓		
- Date of Initial Calibration: 031711.M	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 30% RPD	✓		
- All other compounds ≤ 15% RSD or use curve	✓		
- Comments:			
- Second source within historical limits	✓		
3. Continuing Calibration Check (every 12 hours)	✓		
- SPCCs must meet Min. RF	✓		
- CCCs ≤ 20% D	✓		
- IS RT ± 30 secs	✓		
- IS area –50% to +100%	✓		
- All CCVs for reported analytes within historical limits	✓	—	(1)
4. Method Blank	✓		
- Analyze one per batch (≤ 20 samples or 12 hours, whichever is more frequent)	✓		
- All compounds of interest must be < Reporting Limit	✓		
5. Laboratory Control Samples (LCS/LCSD)	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- LCS/LSCD recoveries within historical limits	✓	—	(2)
- RPD ≤ 25%	✓	—	(3)
- Surrogates within historical limits	✓		
6. MS/MSD	✓		
- Must be analyzed per 20 samples/per matrix/per batch	✓		
- MS/MSD recoveries within historical limits	✓		
- RPD ≤ 25%	✓		
- Surrogates within historical limits	✓		
7. Samples	✓		
- Analyzed within 14 days of sampling	✓		
- IS = RT ± 30 secs and area –50% to +100% of Mid-Point of last ICAL or CCV	✓		
- Surrogate recoveries within historical limits	✓		
- pH ≤ 2	✓		
- If pH is not ≤ 2, flag data with P and pH Data Qualifier			

Comments:
(1) Acetone - C
(2) Iodomethane - L
(3) Carbon disulfide, 1,1-DCE, Iodomethane, Methylene chloride - R7

CAR # 14134

NOTE: Batch = 12 hour (from injection of BFB)

Review Signatures:		
	Analyst:	Date: 03/22/11
	Reviewer:	Date: 3/22/11 3/23/11

[1]) NA: Not Applicable

Injection Log

Directory: C:\HPCHEM\1\GCMS7\DATA\032211

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03221101.d	1.	TUNE		22 Mar 2011 06:38
2	1	03221102.d	1.	25 PPB CCV		22 Mar 2011 06:58
3	2	03221103.d	1.	-BS1		22 Mar 2011 07:29
4	3	03221104.d	1.	-BSD1		22 Mar 2011 08:00
5	4	03221105.d	1.	-BLK1		22 Mar 2011 08:31
6	5	03221106.d	1.	DNU		22 Mar 2011 09:01
7	6	03221107.d	1.	PUC1114-05	TB	22 Mar 2011 09:32
8	7	03221108.d	1.	PUC0982-02	SOURCE	22 Mar 2011 10:03
9	8	03221109.d	1.	-MS1		22 Mar 2011 10:34
10	9	03221110.d	1.	-MSD1		22 Mar 2011 11:05
11	10	03221111.d	1.	PUC1083-19RE2	100X	22 Mar 2011 11:36
12	12	03221112.d	1.	PUC0982-01		22 Mar 2011 12:07
13	13	03221113.d	1.	PUC0982-03		22 Mar 2011 12:37
14	13	03221114.d	1.	PUC0982-04		22 Mar 2011 13:08
15	16	03221115.d	1.	PUC1002-01		22 Mar 2011 13:39
16	1	03221116.d	1.	PUC1083-20RE1	20X	22 Mar 2011 14:10
17	2	03221117.d	1.	PUC0997-01RE1		22 Mar 2011 14:41
18	3	03221118.d	1.	PUC1004-01		22 Mar 2011 15:12
19	4	03221119.d	1.	PUC1113-01		22 Mar 2011 15:43
20	5	03221120.d	1.	PUC1114-01		22 Mar 2011 16:13
21	6	03221121.d	1.	PUC1114-02		22 Mar 2011 16:44
22	7	03221122.d	1.	PUC1114-03		22 Mar 2011 17:15
23	8	03221123.d	1.	PUC1114-04		22 Mar 2011 17:46
24	9	03221124.d	1.	PUC1117-01		22 Mar 2011 18:16

M 4/2

LC 03/31

TestAmerica
Phoenix

GC/MS 7 DAILY LOG SUMMARY

DATE: 03/22/11
ANALYST: LC
QC BATCH # (s): 11C0791
SEQUENCE FILE: C:\HPCHEM\1\GCMS7\DATA\ 032211
CALIBRATION METHOD(S): 031711.m

POS #	FILENAME	SAMPLE ID.CLIENT	SAMPLE VOL.	pH	EPA METHOD	MATRIX	COMMENTS
/	03221101	Tune	2uL	N/A	8260B	H20	
1	02	25 ppb CCV	1x10mL				Acetone ↑ Iodomethane ↑
2	03	11C0791 -BS1					
3	04	-BSD1					
4	05	-BLK1					Bad Purge -DNU
/	06	DNU		≤2			
5	07	PUC1114-05A (TB)		≤2			Source
6	08	0982-02A		≤2			
7	09	11C0791 -MS1		≤2			
8	10	-MSD1		≤2			Benzene Only
9	11	PUC1083-19C RE2	100x100uL	≤2			
10	12	0982-01A	1x10mL	≤2			
12	13	-03A		≤2			
13	14	-04A		≤2			
16	15	1002-01A		≤2			Possible carryover in a
1	16	1083-20B RE1		≤2			No MTBE
2	17	0997-01B RE1	20x500uL	≤2			
3	18	1004-01A	1x10mL	≤2			
4	19	1113-01A		≤2			
5	20	1114-01A		≤2			
6	21	-02A		≤2			
7	22	-03A		≤2			
8	23	-04A		≤2			
9	24	1117-01A		≤2			

LC 03/23/11

STANDARD ID NUMBERS

CCV/H20 LCS/H20 SPIKE: PU01537
CALIBRATION STD: 1654
Internal Std: 1655
IS/Surrogate/BFB: 1652 / PU01261
LOT #: N/A

REQUIRED REVIEWS

ARCHON REVIEWED By / Date: LC 03/22/11
SEQUENCE REVIEWED By / Date: LC 03/22/11
FINAL REVIEWER / Date: [illegible]

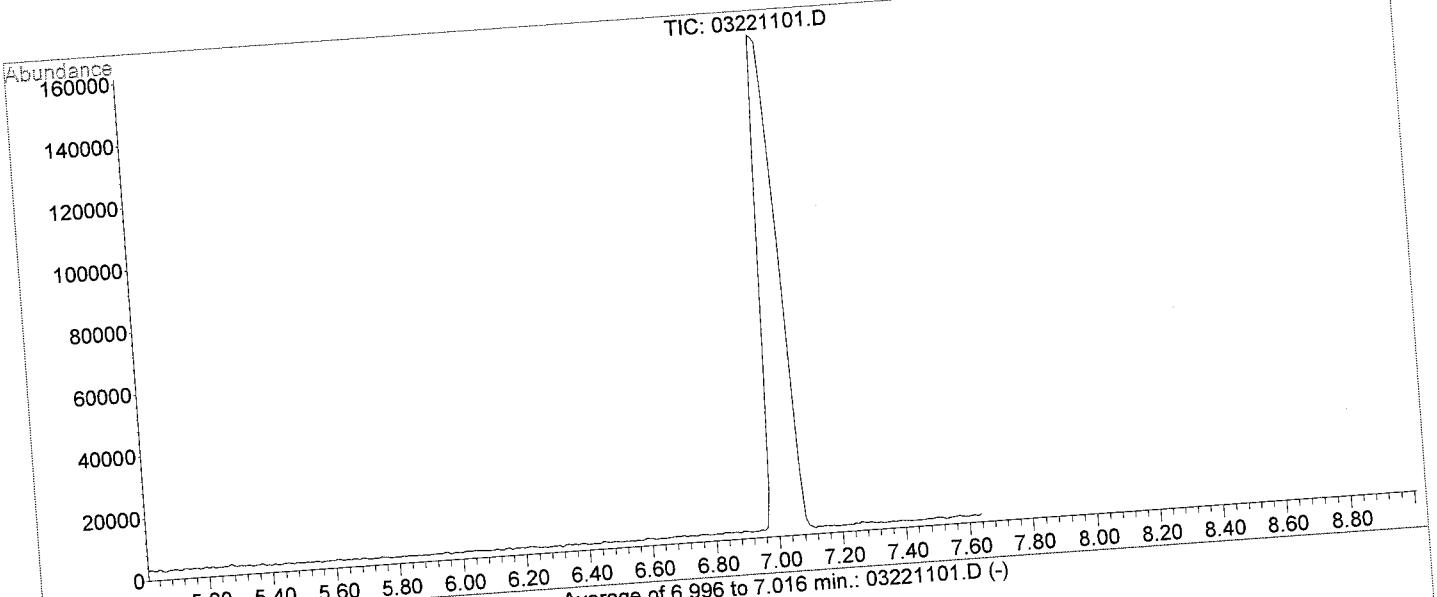
PX-VOA-009/C-07/09

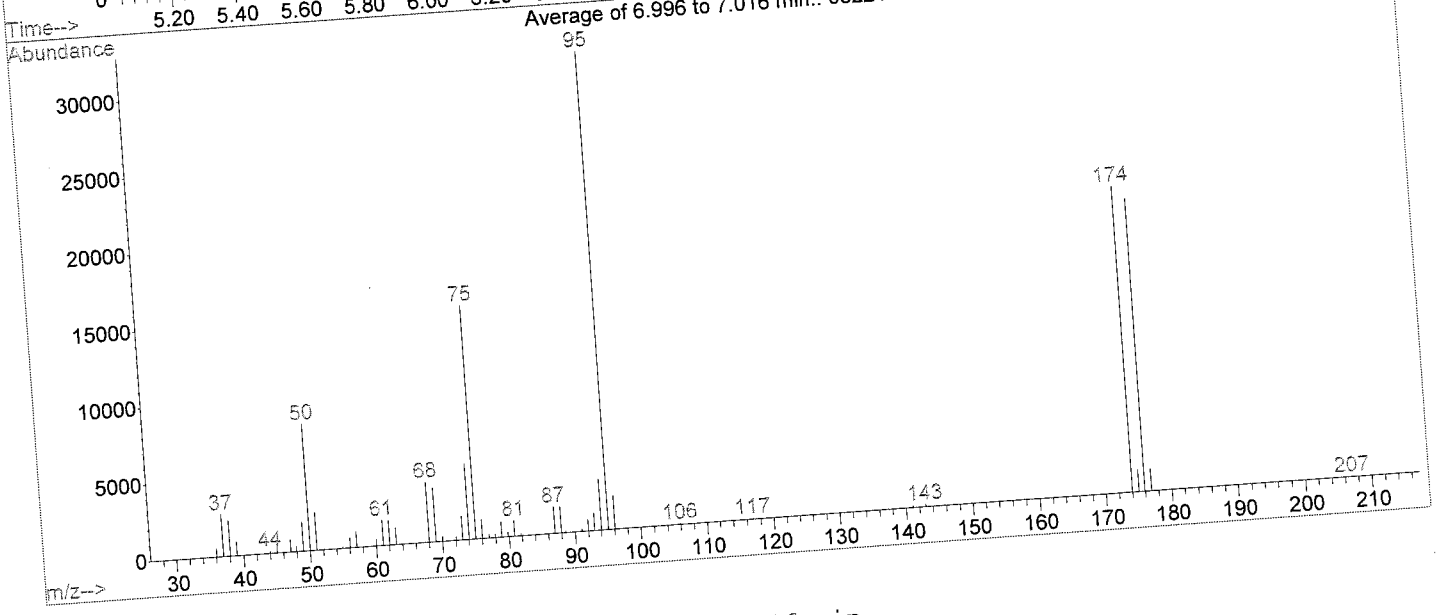
Method 8260

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221101.D
Acq On : 22 Mar 2011 6:38 am
Sample : TUNE
Misc :
MS Integration Params: RTEINT2.P
Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

3/22/11





Spectrum Information: Average of 6.996 to 7.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.5	8264	PASS
75	95	30	60	48.8	15225	PASS
95	95	100	100	100.0	31216	PASS
96	95	5	9	6.9	2168	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.0	19965	PASS
175	174	5	9	7.1	1423	PASS
176	174	95	101	95.7	19101	PASS
177	176	5	9	7.3	1391	PASS

LC 03/22/11

03221101.D 031711.M Tue Mar 22 12:22:50 2011

NEW8260-CCV

3/22/11

Data File Name	03221102.D
Data File Path	C:\HPCHEM\1\GCMS7\DATA\032211\
Operator	LC
Date Acquired	3/22/2011 6:58
Acq. Method File	8260B
Sample Name	25 PPB CCV
Instrument Name	GCMS7

Internal Standard	**Target Response**	**CCV Response**	**Low**	**High**	**T/F**
Pentafluorobenzene	192989	164363	82181.5	328726	TRUE
1,4-Difluorobenzene	343848	291205	145602.5	582410	TRUE
Chlorobenzene-d5	285042	242488	121244	484976	TRUE
1,4-Dichlorobenzene-d4	125736	112264	56132	224528	TRUE

Name	**Amount**	**Spike Amount**	**% REC**	**Low**	**High**	**T/F**	
Dichlorodifluoromethane	23.37	25.00	93.49	60	150	TRUE	
Chloromethane	22.37	25.00	89.47	60	140	TRUE	
Vinyl chloride	23.46	25.00	93.83	80	120	TRUE	CCC
Bromomethane	19.31	25.00	77.23	70	140	TRUE	
Chloroethane	24.38	25.00	97.54	70	130	TRUE	
Trichlorofluoromethane	23.44	25.00	93.75	70	150	TRUE	
Acetone	45.23	25.00	180.92	10	150	FALSE	
Iodomethane	27.94	25.00	111.77	70	140	TRUE	
1,1-Dichloroethene	21.11	25.00	84.43	80	120	TRUE	CCC
Methylene chloride	20.44	25.00	81.75	70	120	TRUE	
Freon 113	20.47	25.00	81.89	60	140	TRUE	
Carbon disulfide	25.10	25.00	100.41	70	130	TRUE	
trans-1,2-Dichloroethene	21.14	25.00	84.56	80	120	TRUE	
MTBE	20.61	25.00	82.45	70	130	TRUE	
1,1-Dichloroethane	20.66	25.00	82.65	70	125	TRUE	
Vinyl acetate	20.71	25.00	82.86	40	150	TRUE	
2-Butanone (MEK)	25.26	25.00	101.02	40	150	TRUE	
cis-1,2-Dichloroethene	21.01	25.00	84.05	80	120	TRUE	
Bromochloromethane	21.64	25.00	86.55	80	120	TRUE	
Chloroform	20.72	25.00	82.89	80	120	TRUE	CCC
2,2-Dichloropropane	22.07	25.00	88.29	80	130	TRUE	
Dibromofluoromethane	**22.65**	**25.00**	**90.61**	**80**	**120**	TRUE	
1,2-Dichloroethane	20.85	25.00	83.41	75	130	TRUE	
1,1,1-Trichloroethane	21.92	25.00	87.68	80	120	TRUE	
1,1-Dichloropropene	21.61	25.00	86.44	80	120	TRUE	
Carbon tetrachloride	22.56	25.00	90.25	80	130	TRUE	
Benzene	21.00	25.00	84.00	80	120	TRUE	
Dibromomethane	20.50	25.00	82.01	80	120	TRUE	
1,2-Dichloropropane	20.49	25.00	81.97	80	120	TRUE	CCC
Trichloroethene	21.12	25.00	84.47	80	120	TRUE	
Bromodichloromethane	21.21	25.00	84.84	80	120	TRUE	
2-Chlorovinylethylether	26.56	25.00	106.23	70	135	TRUE	
cis-1,3-Dichloropropene	20.82	25.00	83.27	80	120	TRUE	
4-Methyl-2-pentanone (MIB	21.33	25.00	85.31	60	130	TRUE	
trans-1,3-Dichloropropene	20.73	25.00	82.91	80	125	TRUE	

LC 03/22/11

1,1,2-Trichloroethane	20.80	25.00	83.20	80	120	TRUE	
Toluene-d8	**22.38**	**25.00**	**89.54**	**80**	**120**	TRUE	
Toluene	20.95	25.00	83.80	80	120	TRUE	CCC
1,3-Dichloropropane	20.27	25.00	81.08	80	120	TRUE	
2-Hexanone	22.33	25.00	89.31	20	150	TRUE	
Dibromochloromethane	20.46	25.00	81.83	80	120	TRUE	
1,2-Dibromoethane	21.17	25.00	84.67	80	120	TRUE	
Tetrachloroethene	20.98	25.00	83.92	70	130	TRUE	
1,1,1,2-Tetrachloroethane	20.93	25.00	83.72	80	120	TRUE	
Chlorobenzene	20.83	25.00	83.31	80	120	TRUE	
Ethylbenzene	21.08	25.00	84.32	80	120	TRUE	CCC
m,p-Xylenes	21.49	25.00	85.97	60	140	TRUE	
Styrene	22.26	25.00	89.03	80	120	TRUE	
o-Xylene	20.67	25.00	82.70	80	120	TRUE	
4-Bromofluorobenzene	**21.79**	**25.00**	**87.14**	**80**	**120**	TRUE	
Bromoform	22.32	25.00	89.29	80	120	TRUE	
1,1,2,2-Tetrachloroethane	20.56	25.00	82.23	80	120	TRUE	
1,2,3-Trichloropropane	21.39	25.00	85.56	70	130	TRUE	
Isopropylbenzene	23.16	25.00	92.65	80	130	TRUE	
Bromobenzene	22.35	25.00	89.40	80	120	TRUE	
n-Propylbenzene	23.03	25.00	92.12	75	130	TRUE	
2-Chlorotoluene	22.50	25.00	90.01	80	120	TRUE	
4-Chlorotoluene	22.55	25.00	90.20	80	120	TRUE	
1,3,5-Trimethylbenzene	23.19	25.00	92.78	80	130	TRUE	
tert-Butylbenzene	23.20	25.00	92.81	80	120	TRUE	
1,2,4-Trimethylbenzene	23.03	25.00	92.12	80	120	TRUE	
sec-Butylbenzene	22.99	25.00	91.98	80	125	TRUE	
1,3-Dichlorobenzene	22.27	25.00	89.10	80	120	TRUE	
1,4-Dichlorobenzene	21.99	25.00	87.95	80	120	TRUE	
p-Isopropyltoluene	23.62	25.00	94.48	80	130	TRUE	
1,2-Dichlorobenzene	21.32	25.00	85.27	80	120	TRUE	
n-Butylbenzene	23.30	25.00	93.20	80	130	TRUE	
1,2-Dibromo-3-chloropropa	19.47	25.00	77.90	50	150	TRUE	
1,2,4-Trichlorobenzene	22.42	25.00	89.67	50	150	TRUE	
Naphthalene	20.53	25.00	82.11	40	150	TRUE	
Hexachlorobutadiene	23.71	25.00	94.83	40	150	TRUE	
1,2,3-Trichlorobenzene	22.25	25.00	89.01	60	140	TRUE	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D
Acq On : 22 Mar 2011 6:58 am
Sample : 25 PPB CCV
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:22 2011

Vial: 1
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	10.59	168	192989	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.72	114	343848	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.06	117	285042	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	125736	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	110000	22.65 ug/L	0.00
Spiked Amount 25.000			Recovery =	90.60%	
39) Toluene-d8	14.10	98	388191	22.38 ug/L	-0.01
Spiked Amount 25.000			Recovery =	89.52%	
53) 4-Bromofluorobenzene	17.75	95	136097	21.79 ug/L	0.00
Spiked Amount 25.000			Recovery =	87.16%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	213089	23.37 ug/L	98
3) Chloromethane	4.89	50	337179	22.37 ug/L	99
4) Vinyl chloride	5.18	62	314832	23.46 ug/L	98
5) Bromomethane	5.78	94	134516	19.31 ug/L	98
6) Chloroethane	5.98	64	173501	24.38 ug/L	100
7) Trichlorofluoromethane	6.77	101	218697	23.44 ug/L	98
8) Acetone	6.92	43	49192	45.23 ug/L	100
9) Iodomethane	7.57	142	120625	27.94 ug/L	100
10) 1,1-Dichloroethene	7.51	96	114889	21.11 ug/L	99
11) Methylene chloride	7.70	84	130878	20.44 ug/L	99
12) Freon 113	7.77	101	131933	20.47 ug/L	100
13) Carbon disulfide	8.02	76	486157	25.10 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	127312	21.14 ug/L	96
15) MTBE	8.73	73	212128	20.61 ug/L	100
16) 1,1-Dichloroethane	8.92	63	259588	20.66 ug/L	99
17) Vinyl acetate	9.08	43	202136	20.71 ug/L	100
18) 2-Butanone (MEK)	9.46	72	7617	25.26 ug/L	59
19) cis-1,2-Dichloroethene	9.65	96	131050	21.01 ug/L	98
20) Bromochloromethane	9.86	128	49383	21.64 ug/L	98
21) Chloroform	9.92	83	214825	20.72 ug/L	99
22) 2,2-Dichloropropane	10.03	77	185522	22.07 ug/L	97
24) 1,2-Dichloroethane	10.77	62	131923	20.85 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	163179	21.92 ug/L	99
27) 1,1-Dichloropropene	11.14	75	190209	21.61 ug/L	99
28) Carbon tetrachloride	11.38	117	137119	22.56 ug/L	98
29) Benzene	11.44	78	494195	21.00 ug/L	100
30) Dibromomethane	12.16	93	57078	20.50 ug/L	99
31) 1,2-Dichloropropane	12.20	63	134693	20.49 ug/L	99
32) Trichloroethene	12.25	95	124260	21.12 ug/L	99
33) Bromodichloromethane	12.32	83	146515	21.21 ug/L	99
34) 2-Chlorovinylethylether	12.85	63	32154	26.56 ug/L	100
35) cis-1,3-Dichloropropene	13.16	75	174563	20.82 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	73258	21.33 ug/L	98
37) trans-1,3-Dichloropropene	13.72	75	134145	20.73 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	64723	20.80 ug/L	98
40) Toluene	14.21	92	280289	20.95 ug/L	100
42) 1,3-Dichloropropane	14.27	76	130749	20.27 ug/L	97

(#) = qualifier out of range (m) = manual integration
03221102.D 031711.M Tue Mar 22 12:23:04 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D Vial: 1
Acq On : 22 Mar 2011 6:58 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:22 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

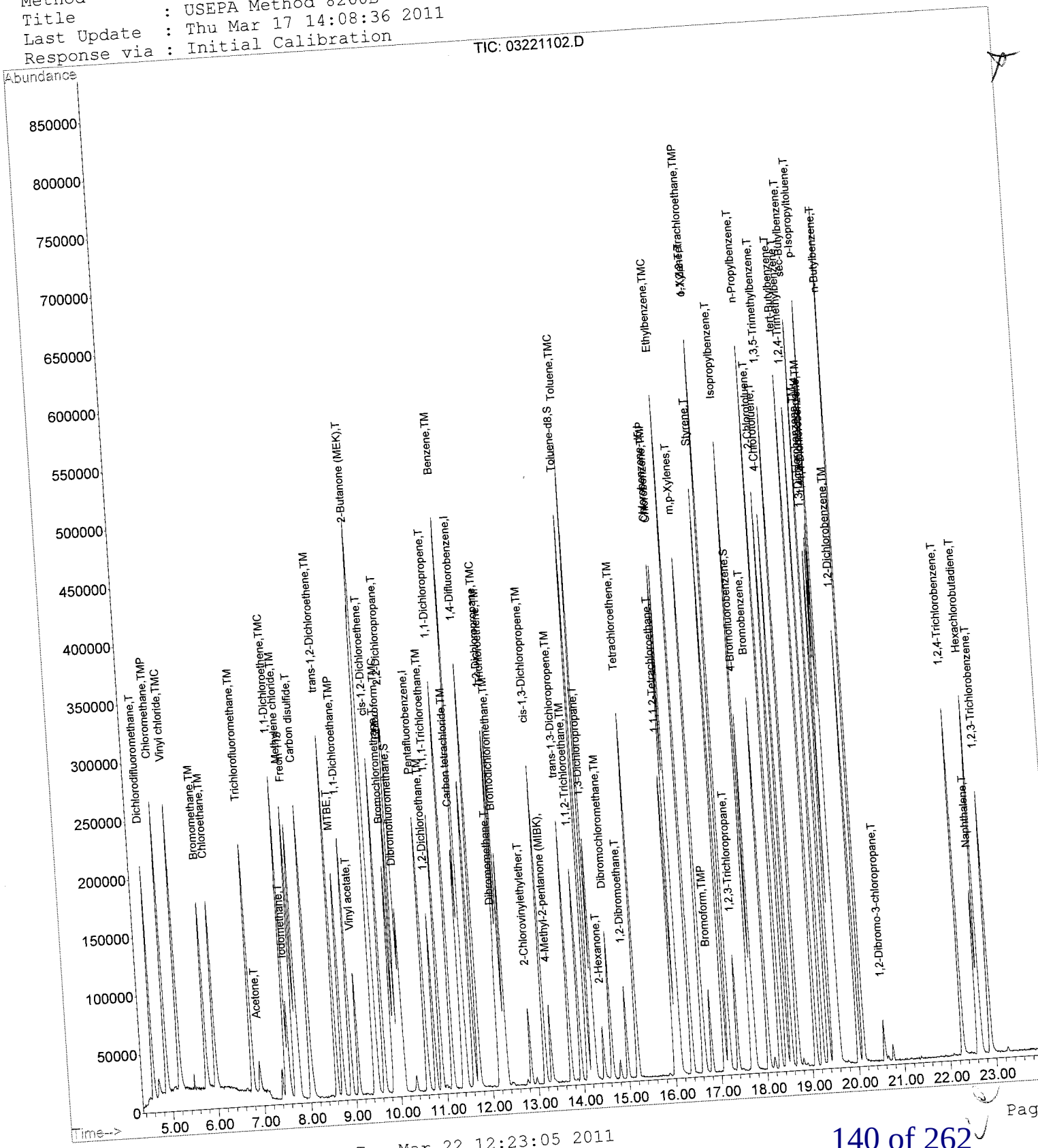
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	48016	22.33 ug/L #	95
44) Dibromochloromethane	14.64	129	79348	20.46 ug/L	99
45) 1,2-Dibromoethane	14.97	107	68544	21.17 ug/L	98
46) Tetrachloroethene	15.19	166	107256	20.98 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.01	131	88350	20.93 ug/L	95
48) Chlorobenzene	16.12	112	278995	20.83 ug/L	99
49) Ethylbenzene	16.37	91	531989	21.08 ug/L	100
50) m,p-Xylenes	16.63	106	189996	21.49 ug/L	98
51) Styrene	17.09	104	298392	22.26 ug/L	97
52) o-Xylene	17.19	106	177651	20.67 ug/L	100
55) Bromoform	16.81	173	40639	22.32 ug/L	100
56) 1,1,2,2-Tetrachloroethane	17.18	83	75679	20.56 ug/L	96
57) 1,2,3-Trichloropropane	17.37	110	17133	21.39 ug/L	96
58) Isopropylbenzene	17.69	105	445960	23.16 ug/L	99
59) Bromobenzene	18.04	156	99274	22.35 ug/L	99
60) n-Propylbenzene	18.29	91	632971	23.03 ug/L	100
61) 2-Chlorotoluene	18.44	91	362356	22.50 ug/L	100
62) 4-Chlorotoluene	18.54	91	359995	22.55 ug/L	99
63) 1,3,5-Trimethylbenzene	18.69	105	385893	23.19 ug/L	99
64) tert-Butylbenzene	19.08	119	328649	23.20 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	385130	23.03 ug/L	100
66) sec-Butylbenzene	19.38	105	558264	22.99 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	201609	22.27 ug/L	100
68) 1,4-Dichlorobenzene	19.56	146	200379	21.99 ug/L	99
69) p-Isopropyltoluene	19.60	119	438302	23.62 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	167826	21.32 ug/L	98
71) n-Butylbenzene	20.11	91	481225	23.30 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	9554	19.47 ug/L	84
73) 1,2,4-Trichlorobenzene	22.28	180	113985	22.42 ug/L	100
74) Naphthalene	22.62	128	138409	20.53 ug/L	100
75) Hexachlorobutadiene	22.68	225	76986	23.71 ug/L	97
76) 1,2,3-Trichlorobenzene	22.89	180	92238	22.25 ug/L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D Vial: 1
Acq On : 22 Mar 2011 6:58 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:22 2011

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03221102.D 031711.M Tue Mar 22 12:23:05 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D Vial: 1
Acq On : 22 Mar 2011 6:58 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

3/22/11

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	117	-0.01
2	T	Dichlorodifluoromethane	1.181	1.104	6.5	107	0.00
3	TMP	Chloromethane	1.953	1.747	10.5	105	0.00
4	TMC	Vinyl chloride	1.739	1.631	6.2	111	0.00
5	TM	Bromomethane	0.813	0.697	14.3	95	0.00
6	TM	Chloroethane	0.922	0.899	2.5	116	0.00
7	TM	Trichlorofluoromethane	1.209	1.133	6.3	102	0.00
8	T	Acetone	0.194	0.255	-31.4#	190	-0.01
9	T	Iodomethane	0.531	0.625	-17.7	123	0.00
10	TMC	1,1-Dichloroethene	0.705	0.595	15.6	103	0.00
11	TM	Methylene chloride	0.830	0.678	18.3	99	0.00
12		Freon 113	0.835	0.684	18.1	99	0.00
13	T	Carbon disulfide	2.509	2.519	-0.4	121	0.00
14	TM	trans-1,2-Dichloroethene	0.780	0.660	15.4	100	0.00
15	T	MTBE	1.333	1.099	17.6	99	0.00
16	TMP	1,1-Dichloroethane	1.628	1.345	17.4	98	0.00
17	T	Vinyl acetate	1.264	1.047	17.2	100	0.00
18	T	2-Butanone (MEK)	0.036	0.039#	-8.3	110	-0.01
19	T	cis-1,2-Dichloroethene	0.808	0.679	16.0	100	0.00
20	T	Bromochloromethane	0.296	0.256	13.5	104	0.00
21	TMC	Chloroform	1.343	1.113	17.1	98	0.00
22	T	2,2-Dichloropropane	1.089	0.961	11.8	103	0.00
23	S	Dibromofluoromethane	0.629	0.570	9.4	106	0.00
24	TM	1,2-Dichloroethane	0.820	0.684	16.6	97	-0.01
25	TM	1,1,1-Trichloroethane	0.964	0.846	12.2	101	0.00
26	I	1,4-Difluorobenzene	1.000	1.000	0.0	118	0.00
27	T	1,1-Dichloropropene	0.640	0.553	13.6	99	0.00
28	TM	Carbon tetrachloride	0.442	0.399	9.7	103	0.00
29	TM	Benzene	1.711	1.437	16.0	101	0.00
30	T	Dibromomethane	0.202	0.166	17.8	98	0.00
31	TMC	1,2-Dichloropropane	0.478	0.392	18.0	96	0.00
32	TM	Trichloroethene	0.428	0.361	15.7	100	-0.01
33	TM	Bromodichloromethane	0.502	0.426	15.1	97	0.00
34	T	2-Chlorovinylethylether	0.101	0.094#	6.9	111	0.00
35	TM	cis-1,3-Dichloropropene	0.610	0.508	16.7	95	0.00
36		4-Methyl-2-pentanone (MIBK)	0.250	0.213	14.8	102	0.00
37	TM	trans-1,3-Dichloropropene	0.471	0.390	17.2	95	0.00
38	TM	1,1,2-Trichloroethane	0.226	0.188	16.8	98	0.00
39	S	Toluene-d8	1.261	1.129	10.5	108	-0.01
40	TMC	Toluene	0.973	0.815	16.2	99	0.00
41	I	Chlorobenzene-d5	1.000	1.000	0.0	118	0.00
42	T	1,3-Dichloropropane	0.566	0.459	18.9	93	0.00
43	T	2-Hexanone	0.189	0.168	11.1	108	0.00
44	TM	Dibromochloromethane	0.340	0.278	18.2	97	0.00
45	T	1,2-Dibromoethane	0.284	0.240	15.5	97	0.00
46	TM	Tetrachloroethene	0.448	0.376	16.1	98	-0.01
47	T	1,1,1,2-Tetrachloroethane	0.370	0.310	16.2	101	0.00
48	TMP	Chlorobenzene	1.175	0.979	16.7	98	0.00

(#) = Out of Range
03221102.D 031711.M Tue Mar 22 12:23:08 2011

LC 03/22/11

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221102.D Vial: 1
Acq On : 22 Mar 2011 6:58 am Operator: LC
Sample : 25 PPB CCV Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	TMC	Ethylbenzene	2.214	1.866	15.7	99	0.00
50	T	m,p-Xylenes	0.775	0.667	13.9	102	0.00
51	T	Styrene	1.176	1.047	11.0	101	0.00
52	T	o-Xylene	0.754	0.623	17.4	100	0.00
53	S	4-Bromofluorobenzene	0.548	0.477	13.0	106	0.00
54		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
55	TMP	Bromoform	0.362	0.323	10.8	96	0.00
56	TMP	1,1,2,2-Tetrachloroethane	0.732	0.602	17.8	92	0.00
57	T	1,2,3-Trichloropropane	0.159	0.136	14.5	91	0.00
58	T	Isopropylbenzene	3.828	3.547	7.3	100	0.00
59	T	Bromobenzene	0.883	0.790	10.5	94	0.00
60	T	n-Propylbenzene	5.465	5.034	7.9	100	0.00
61	T	2-Chlorotoluene	3.202	2.882	10.0	99	0.00
62	T	4-Chlorotoluene	3.174	2.863	9.8	98	0.00
63	T	1,3,5-Trimethylbenzene	3.308	3.069	7.2	101	0.00
64	T	tert-Butylbenzene	2.816	2.614	7.2	101	0.00
65	T	1,2,4-Trimethylbenzene	3.325	3.063	7.9	101	0.00
66	T	sec-Butylbenzene	4.827	4.440	8.0	100	0.00
67	TM	1,3-Dichlorobenzene	1.800	1.603	10.9	98	0.00
68	TM	1,4-Dichlorobenzene	1.812	1.594	12.0	99	0.00
69	T	p-Isopropyltoluene	3.690	3.486	5.5	101	0.00
70	TM	1,2-Dichlorobenzene	1.565	1.335	14.7	94	0.00
71	T	n-Butylbenzene	4.107	3.827	6.8	99	0.00
72	T	1,2-Dibromo-3-chloropropane	0.098	0.076#	22.4	84	0.00
73	T	1,2,4-Trichlorobenzene	1.011	0.907	10.3	93	0.00
74	T	Naphthalene	1.341	1.101	17.9	84	0.00
75	T	Hexachlorobutadiene	0.646	0.612	5.3	100	0.00
76	T	1,2,3-Trichlorobenzene	0.824	0.734	10.9	91	0.00

SPCC's out = 0 CCC's out = 0

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221103.D Vial: 2
Acq On : 22 Mar 2011 7:29 am Operator: LC
Sample : -BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:23 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	191208	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	335903	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	277118	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	131814	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	111828	23.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.96%	
39) Toluene-d8	14.11	98	382232	22.56 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.24%	
53) 4-Bromofluorobenzene	17.74	95	134823	22.20 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.80%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	185855	20.57 ug/L	99
3) Chloromethane	4.89	50	261130	17.48 ug/L	98
4) Vinyl chloride	5.18	62	278784	20.97 ug/L	97
5) Bromomethane	5.77	94	143775	20.81 ug/L	97
6) Chloroethane	5.98	64	150093	21.29 ug/L	98
7) Trichlorofluoromethane	6.77	101	219743	23.77 ug/L	99
8) Acetone	6.93	43	34192	30.55 ug/L	99
9) Iodomethane	7.56	142	163900	38.27 ug/L	98
10) 1,1-Dichloroethene	7.50	96	138487	25.68 ug/L	97
11) Methylene chloride	7.70	84	156896	24.73 ug/L	98
12) Freon 113	7.77	101	156619	24.53 ug/L	99
13) Carbon disulfide	8.02	76	556252	28.99 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	125918	21.10 ug/L	98
15) MTBE	8.73	73	204242	20.03 ug/L	99
16) 1,1-Dichloroethane	8.91	63	255867	20.55 ug/L	100
17) Vinyl acetate	9.07	43	254923	26.37 ug/L	99
18) 2-Butanone (MEK)	9.46	72	7665	25.64 ug/L	39
19) cis-1,2-Dichloroethene	9.65	96	122782	19.87 ug/L	98
20) Bromochloromethane	9.87	128	47331	20.93 ug/L	98
21) Chloroform	9.93	83	207118	20.17 ug/L	99
22) 2,2-Dichloropropane	10.03	77	175307	21.05 ug/L	99
24) 1,2-Dichloroethane	10.77	62	130161	20.76 ug/L	98
25) 1,1,1-Trichloroethane	10.90	97	154419	20.94 ug/L	100
27) 1,1-Dichloropropene	11.14	75	180517	20.99 ug/L	99
28) Carbon tetrachloride	11.38	117	127362	21.45 ug/L	100
29) Benzene	11.43	78	463066	20.14 ug/L	100
30) Dibromomethane	12.16	93	57299	21.07 ug/L	97
31) 1,2-Dichloropropane	12.21	63	133105	20.73 ug/L	100
32) Trichloroethene	12.26	95	119163	20.73 ug/L	99
33) Bromodichloromethane	12.32	83	143092	21.20 ug/L	99
34) 2-Chlorovinylethylether	12.85	63	38405	32.81 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	175276	21.40 ug/L	100
36) 4-Methyl-2-pentanone (MIBK	13.30	43	78742	23.47 ug/L	100
37) trans-1,3-Dichloropropene	13.72	75	141343	22.36 ug/L	98
38) 1,1,2-Trichloroethane	13.94	83	64276	21.15 ug/L	99
40) Toluene	14.20	92	264288	20.22 ug/L	99
42) 1,3-Dichloropropane	14.26	76	130902	20.88 ug/L	97

(#) = qualifier out of range (m) = manual integration
03221103.D 031711.M Tue Mar 22 12:23:46 2011

LC 03/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221103.D Vial: 2
Acq On : 22 Mar 2011 7:29 am Operator: LC
Sample : -BS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:23 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	51395	24.58 ug/L #	96
44) Dibromochloromethane	14.64	129	81791	21.69 ug/L	99
45) 1,2-Dibromoethane	14.97	107	67085	21.31 ug/L	99
46) Tetrachloroethene	15.20	166	103121	20.75 ug/L	100
47) 1,1,1,2-Tetrachloroethane	16.00	131	85361	20.80 ug/L	97
48) Chlorobenzene	16.11	112	269306	20.68 ug/L	99
49) Ethylbenzene	16.37	91	507210	20.67 ug/L	100
50) m,p-Xylenes	16.63	106	178224	20.74 ug/L	100
51) Styrene	17.08	104	281281	21.58 ug/L	100
52) o-Xylene	17.19	106	169756	20.32 ug/L	97
55) Bromoform	16.81	173	42245	22.13 ug/L	99
56) 1,1,2,2-Tetrachloroethane	17.18	83	82776	21.45 ug/L	99
57) 1,2,3-Trichloropropane	17.38	110	18263	21.75 ug/L	100
58) Isopropylbenzene	17.68	105	462333	22.91 ug/L	99
59) Bromobenzene	18.05	156	98403	21.13 ug/L	100
60) n-Propylbenzene	18.29	91	627134	21.76 ug/L	100
61) 2-Chlorotoluene	18.44	91	344737	20.42 ug/L	98
62) 4-Chlorotoluene	18.55	91	357127	21.34 ug/L	99
63) 1,3,5-Trimethylbenzene	18.70	105	373785	21.43 ug/L	100
64) tert-Butylbenzene	19.09	119	312181	21.02 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	384657	21.94 ug/L	100
66) sec-Butylbenzene	19.37	105	534899	21.02 ug/L	99
67) 1,3-Dichlorobenzene	19.47	146	198414	20.91 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	199251	20.86 ug/L	99
69) p-Isopropyltoluene	19.60	119	426160	21.91 ug/L	99
70) 1,2-Dichlorobenzene	20.01	146	171672	20.80 ug/L	99
71) n-Butylbenzene	20.11	91	477436	22.05 ug/L	99
72) 1,2-Dibromo-3-chloropropan	20.57	157	11019	21.42 ug/L	92
73) 1,2,4-Trichlorobenzene	22.28	180	126767	23.78 ug/L	100
74) Naphthalene	22.62	128	169482	23.98 ug/L	100
75) Hexachlorobutadiene	22.68	225	74923	22.01 ug/L	99
76) 1,2,3-Trichlorobenzene	22.89	180	103262	23.76 ug/L	98

(#) = qualifier out of range (m) = manual integration
03221103.D 031711.M Tue Mar 22 12:23:47 2011

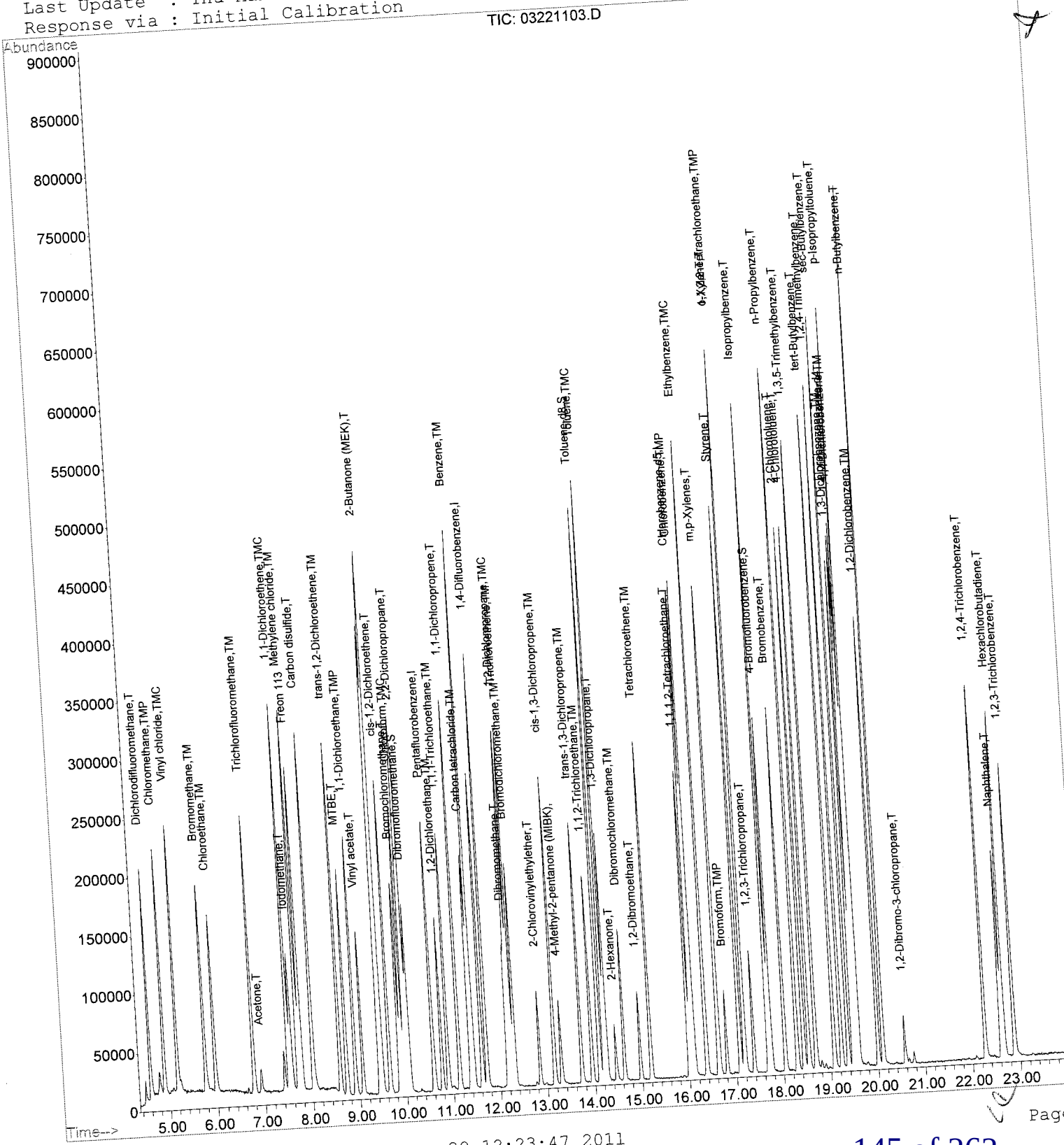
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221103.D
Acq On : 22 Mar 2011 7:29 am
Sample : -BS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011

Vial: 2
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03221103.D 031711.M Tue Mar 22 12:23:47 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221104.D
Acq On : 22 Mar 2011 8:00 am
Sample : -BSD1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

✓ 3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	193281	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	333677	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.06	117	278307	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	127803	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	111706	22.97 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.88%	
39) Toluene-d8	14.11	98	377394	22.43 ug/L	0.00
Spiked Amount 25.000			Recovery	= 89.72%	
53) 4-Bromofluorobenzene	17.74	95	135668	22.24 ug/L	0.00
Spiked Amount 25.000			Recovery	= 88.96%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	175198	19.19 ug/L	97
3) Chloromethane	4.89	50	249111	16.50 ug/L	99
4) Vinyl chloride	5.17	62	258846	19.26 ug/L	100
5) Bromomethane	5.77	94	127292	18.26 ug/L	100
6) Chloroethane	5.97	64	141552	19.86 ug/L	96
7) Trichlorofluoromethane	6.77	101	211288	22.61 ug/L	99
8) Acetone	6.93	43	32363	28.36 ug/L	100
9) Iodomethane	7.56	142	107319	24.84 ug/L	100
10) 1,1-Dichloroethene	7.51	96	109072	20.01 ug/L	99
11) Methylene chloride	7.70	84	127679	19.91 ug/L	96
12) Freon 113	7.77	101	124317	19.26 ug/L	98
13) Carbon disulfide	8.02	76	455884	23.50 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	122191	20.26 ug/L	99
15) MTBE	8.73	73	207196	20.10 ug/L	99
16) 1,1-Dichloroethane	8.91	63	251637	20.00 ug/L	100
17) Vinyl acetate	9.07	43	255285	26.12 ug/L	100
18) 2-Butanone (MEK)	9.47	72	7029	23.34 ug/L	54
19) cis-1,2-Dichloroethene	9.65	96	121582	19.46 ug/L	98
20) Bromochloromethane	9.86	128	47600	20.82 ug/L	96
21) Chloroform	9.92	83	203645	19.61 ug/L	100
22) 2,2-Dichloropropane	10.03	77	171151	20.33 ug/L	99
24) 1,2-Dichloroethane	10.77	62	127678	20.15 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	154276	20.69 ug/L	98
27) 1,1-Dichloropropene	11.14	75	178405	20.89 ug/L	100
28) Carbon tetrachloride	11.38	117	125187	21.23 ug/L	99
29) Benzene	11.43	78	456385	19.99 ug/L	99
30) Dibromomethane	12.16	93	58620	21.70 ug/L	98
31) 1,2-Dichloropropane	12.20	63	133665	20.96 ug/L	100
32) Trichloroethene	12.26	95	115085	20.15 ug/L	99
33) Bromodichloromethane	12.32	83	140890	21.02 ug/L	99
34) 2-Chlorovinylethylether	12.85	63	32867	28.05 ug/L	99
35) cis-1,3-Dichloropropene	13.16	75	172517	21.20 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	77918	23.38 ug/L	99
37) trans-1,3-Dichloropropene	13.72	75	136555	21.74 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	62074	20.56 ug/L	98
40) Toluene	14.20	92	260428	20.06 ug/L	99
42) 1,3-Dichloropropane	14.26	76	131189	20.83 ug/L	96

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

LC 03/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221104.D
Acq On : 22 Mar 2011 8:00 am
Sample : -BSD1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	48696	23.19 ug/L #	93
44) Dibromochloromethane	14.64	129	78703	20.78 ug/L	99
45) 1,2-Dibromoethane	14.97	107	65715	20.79 ug/L	96
46) Tetrachloroethene	15.20	166	101150	20.26 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	84360	20.47 ug/L	97
48) Chlorobenzene	16.11	112	262002	20.03 ug/L	100
49) Ethylbenzene	16.37	91	493385	20.02 ug/L	100
50) m,p-Xylenes	16.63	106	173014	20.05 ug/L	99
51) Styrene	17.09	104	279919	21.38 ug/L	98
52) o-Xylene	17.19	106	164451	19.60 ug/L	99
55) Bromoform	16.81	173	42463	22.95 ug/L	98
56) 1,1,2,2-Tetrachloroethane	17.17	83	81875	21.88 ug/L	98
57) 1,2,3-Trichloropropane	17.37	110	18389	22.59 ug/L	96
58) Isopropylbenzene	17.69	105	455666	23.28 ug/L	100
59) Bromobenzene	18.04	156	99317	22.00 ug/L	99
60) n-Propylbenzene	18.29	91	609145	21.80 ug/L	100
61) 2-Chlorotoluene	18.44	91	336952	20.59 ug/L	99
62) 4-Chlorotoluene	18.55	91	347985	21.45 ug/L	99
63) 1,3,5-Trimethylbenzene	18.69	105	363351	21.49 ug/L	99
64) tert-Butylbenzene	19.08	119	306891	21.32 ug/L	99
65) 1,2,4-Trimethylbenzene	19.23	105	368260	21.66 ug/L	99
66) sec-Butylbenzene	19.38	105	518229	21.00 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	195249	21.22 ug/L	100
68) 1,4-Dichlorobenzene	19.56	146	197785	21.35 ug/L	99
69) p-Isopropyltoluene	19.60	119	413056	21.90 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	169697	21.21 ug/L	98
71) n-Butylbenzene	20.11	91	461412	21.98 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	11169	22.40 ug/L	94
73) 1,2,4-Trichlorobenzene	22.27	180	125162	24.22 ug/L	98
74) Naphthalene	22.62	128	164549	24.01 ug/L	100
75) Hexachlorobutadiene	22.68	225	74058	22.44 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	98292	23.33 ug/L	99

(#) = qualifier out of range (m) = manual integration
03221104.D 031711.M Tue Mar 22 12:24:02 2011

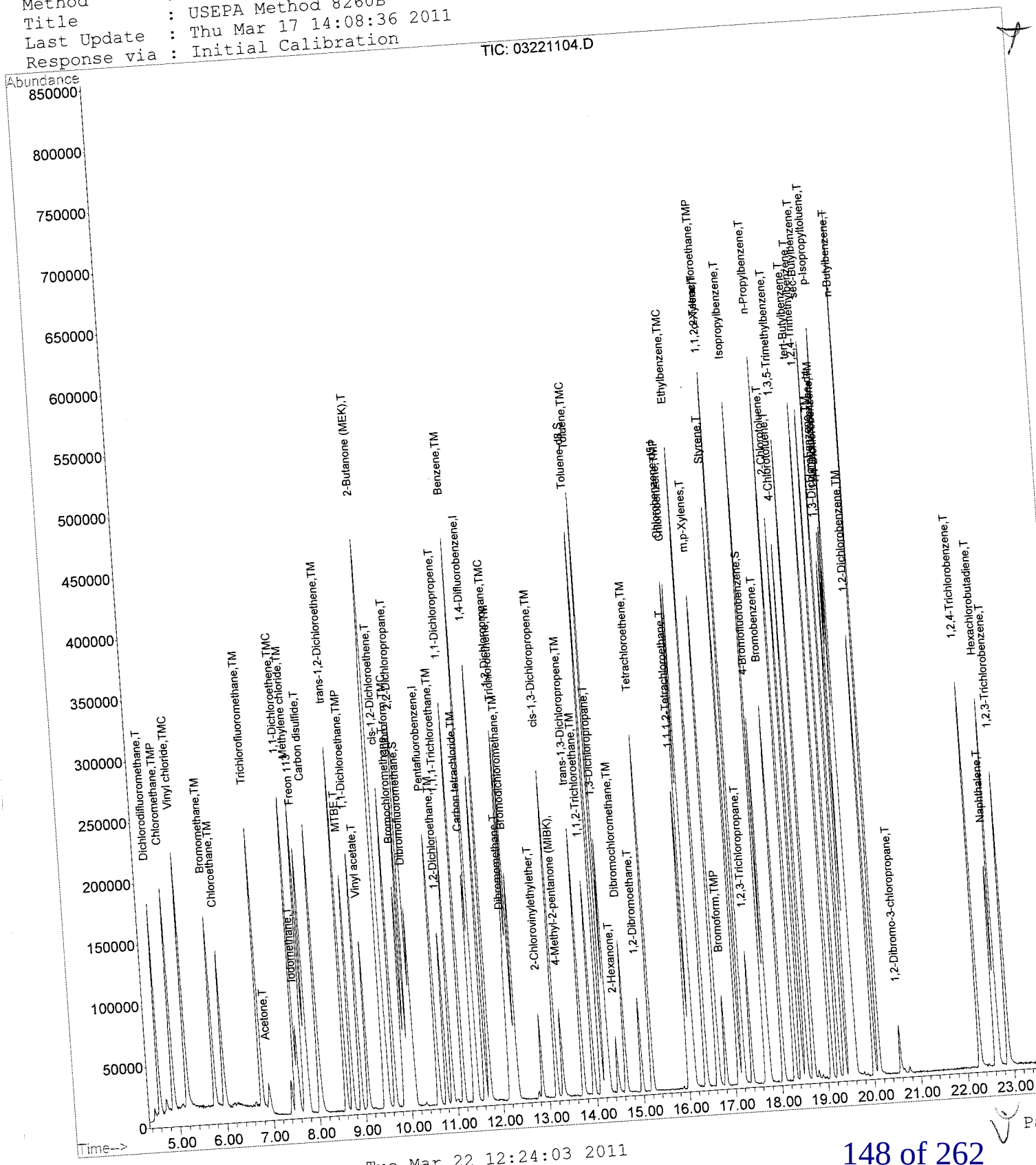
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221104.D
Acq On : 22 Mar 2011 8:00 am
Sample : -BSD1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:23 2011

Vial: 3
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



03221104.D 031711.M Tue Mar 22 12:24:03 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221105.D
Acq On : 22 Mar 2011 8:31 am
Sample : -BLK1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:24 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

✓ 3/22/11

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.59	168	191048	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.72	114	334286	25.00 ug/L	-0.01
41) Chlorobenzene-d5	16.07	117	277168	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.52	152	127354	25.00 ug/L	-0.01
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	109727	22.83 ug/L	-0.01
Spiked Amount 25.000			Recovery =	91.32%	
39) Toluene-d8	14.11	98	381083	22.60 ug/L	-0.01
Spiked Amount 25.000			Recovery =	90.40%	
53) 4-Bromofluorobenzene	17.74	95	133747	22.02 ug/L	-0.01
Spiked Amount 25.000			Recovery =	88.08%	

Target Compounds					Qvalue
5) Bromomethane	5.77	94	900	0.39 ug/L #	31
8) Acetone	6.98	43	1800	Below Cal #	48
9) Iodomethane	7.55	142	130	0.16 ug/L #	32
24) 1,2-Dichloroethane	10.59	62	985	0.16 ug/L #	1
73) 1,2,4-Trichlorobenzene	22.29	180	891	0.17 ug/L	87
74) Naphthalene	22.62	128	8874	1.30 ug/L	100
76) 1,2,3-Trichlorobenzene	22.89	180	993	0.24 ug/L	89

LC 03/22/11

(#) = qualifier out of range (m) = manual integration
03221105.D 031711.M Tue Mar 22 12:24:24 2011

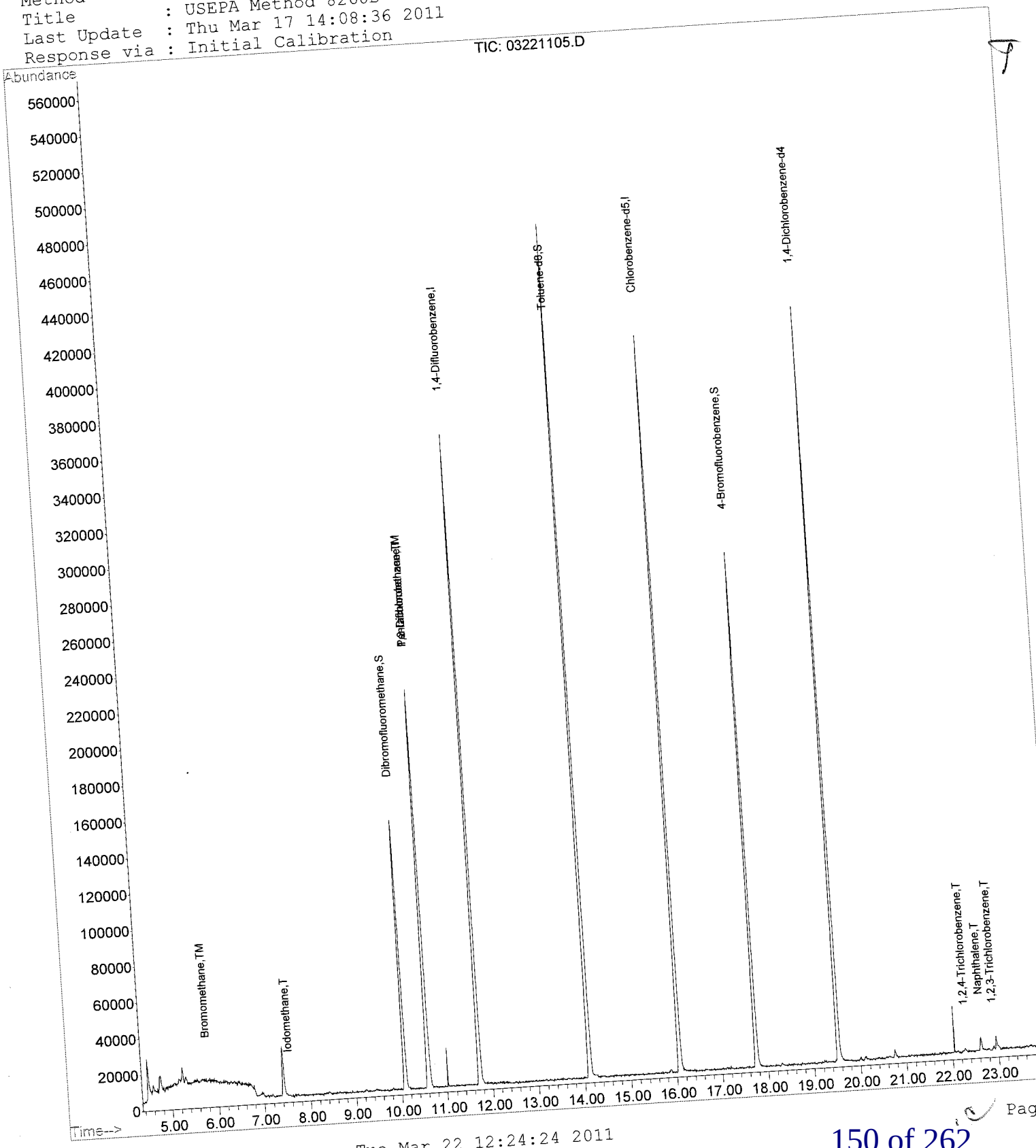
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221105.D
Acq On : 22 Mar 2011 8:31 am
Sample : -BLK1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:24 2011

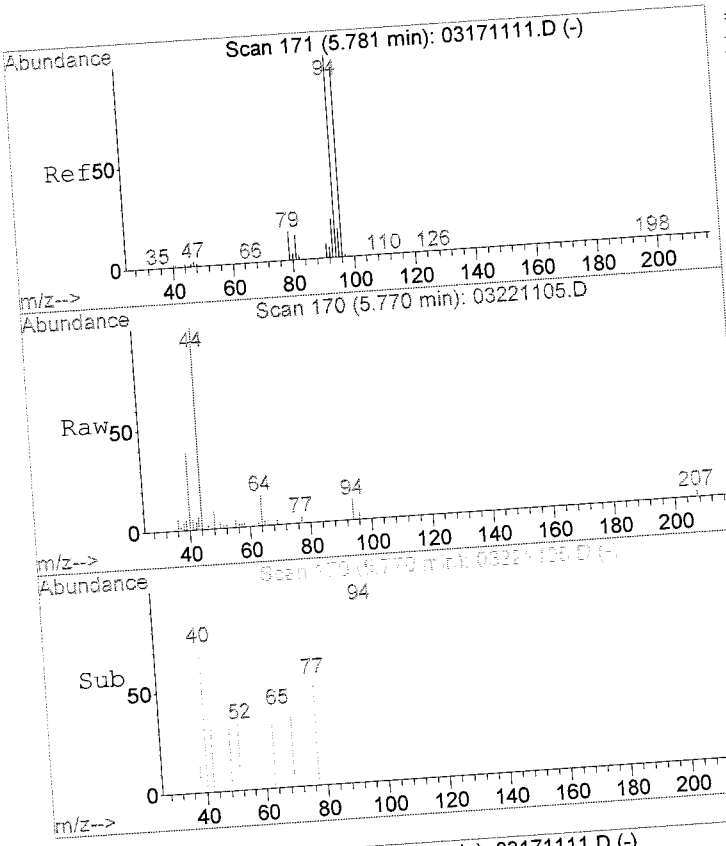
Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



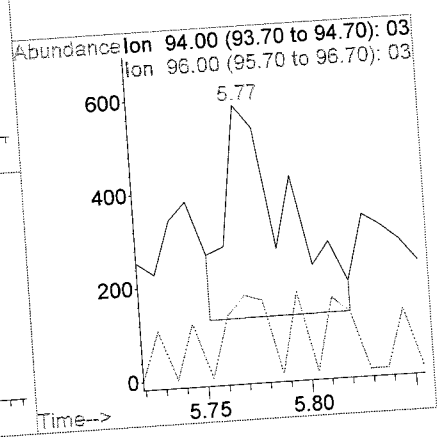
03221105.D 031711.M Tue Mar 22 12:24:24 2011

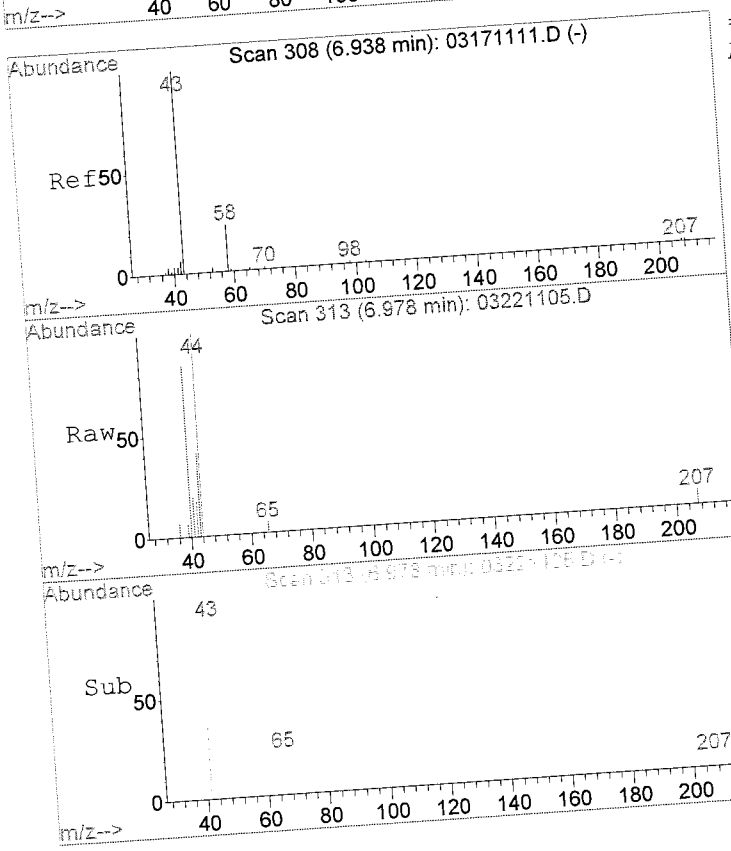


#5
Bromomethane
Concen: 0.39 ug/L
RT: 5.77 min Scan# 170
Delta R.T. -0.01 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion: 94 Resp: 900

Ion	Ratio	Lower	Upper
94	100		
96	26.1	74.0	111.0#

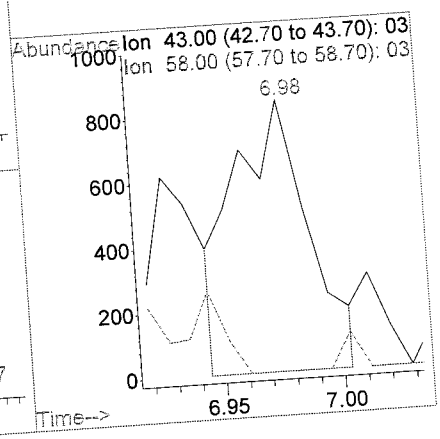


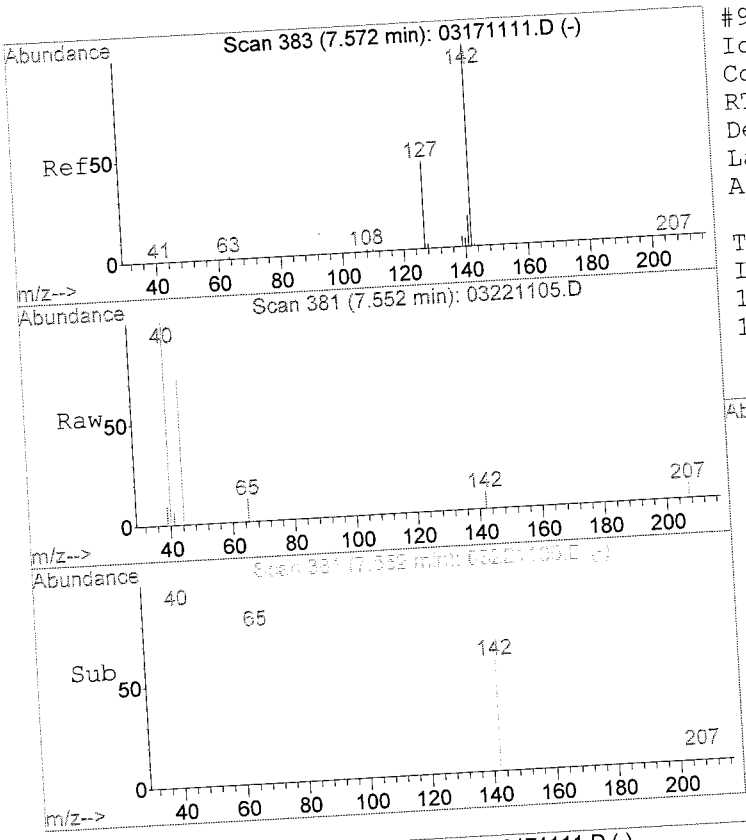


#8
Acetone
Concen: Below Cal
RT: 6.98 min Scan# 313
Delta R.T. 0.04 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion: 43 Resp: 1800

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.2	31.8#

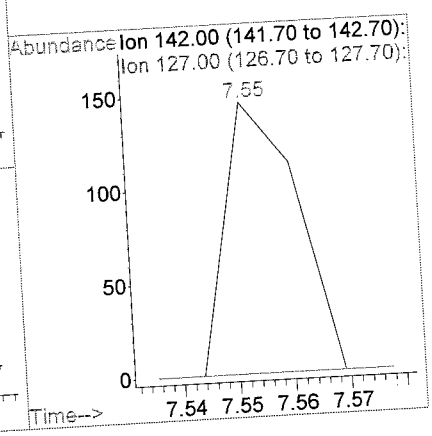


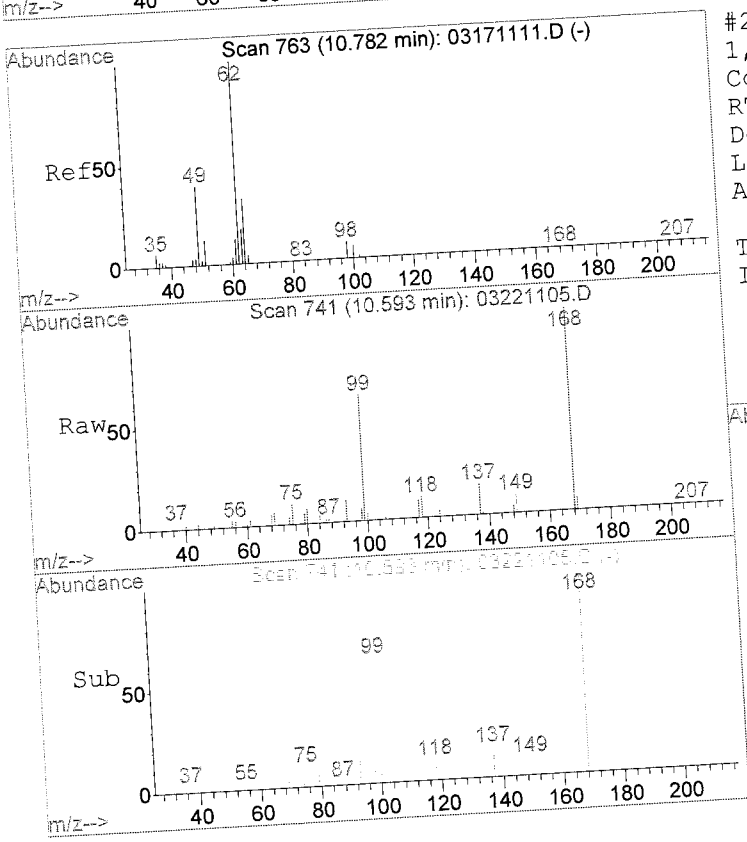


#9
Iodomethane
Concen: 0.16 ug/L
RT: 7.55 min Scan# 381
Delta R.T. -0.02 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:142 Resp: 130

Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.5	53.3#

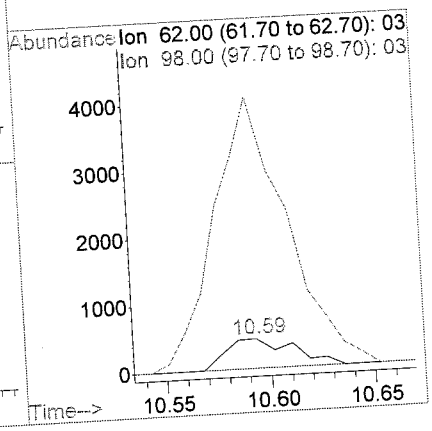




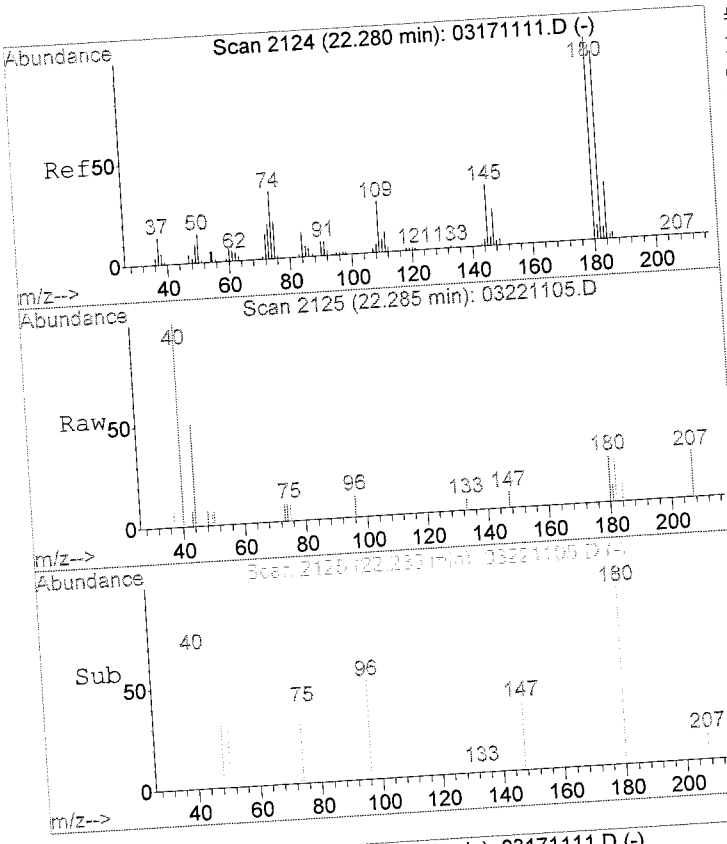
#24
1,2-Dichloroethane
Concen: 0.16 ug/L
RT: 10.59 min Scan# 741
Delta R.T. -0.19 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion: 62 Resp: 985

Ion	Ratio	Lower	Upper
62	100		
98	988.6	7.0	10.6#



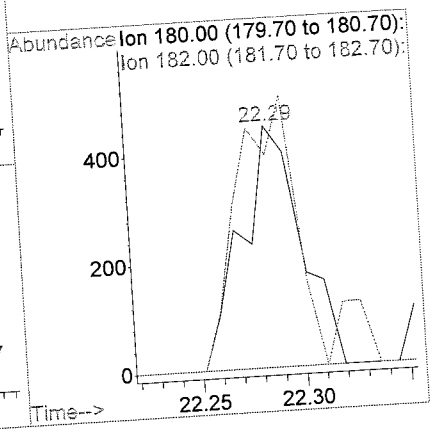
03221105.D 031711.M Tue Mar 22 12:24:25 2011

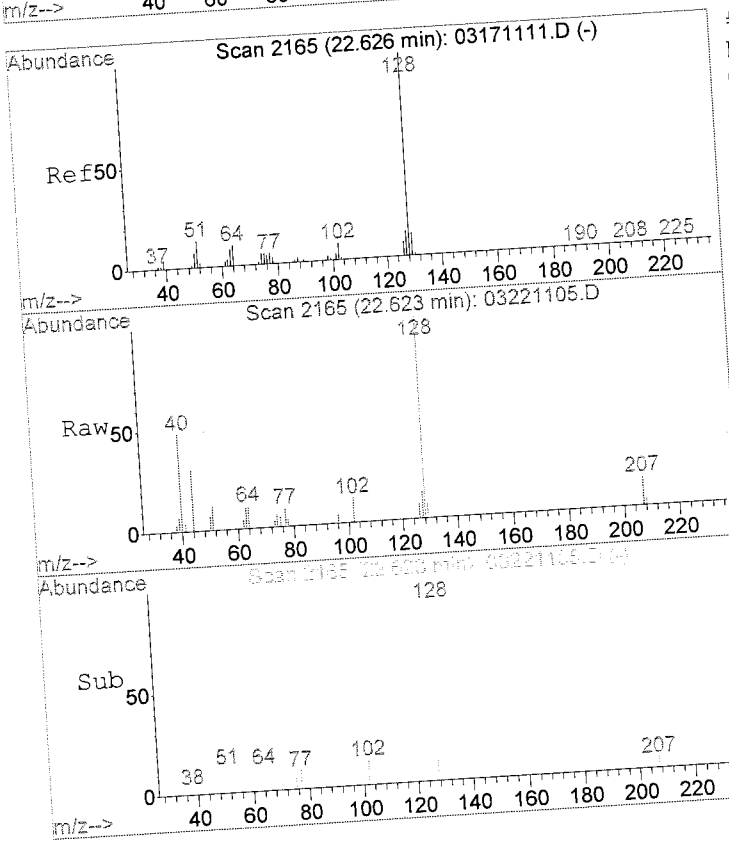


#73
1,2,4-Trichlorobenzene
Concen: 0.17 ug/L
RT: 22.29 min Scan# 2125
Delta R.T. 0.01 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:180 Resp: 891

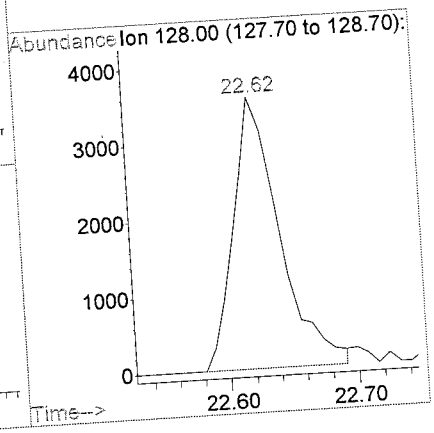
Ion	Ratio	Lower	Upper
180	100		
182	108.0	76.5	114.7

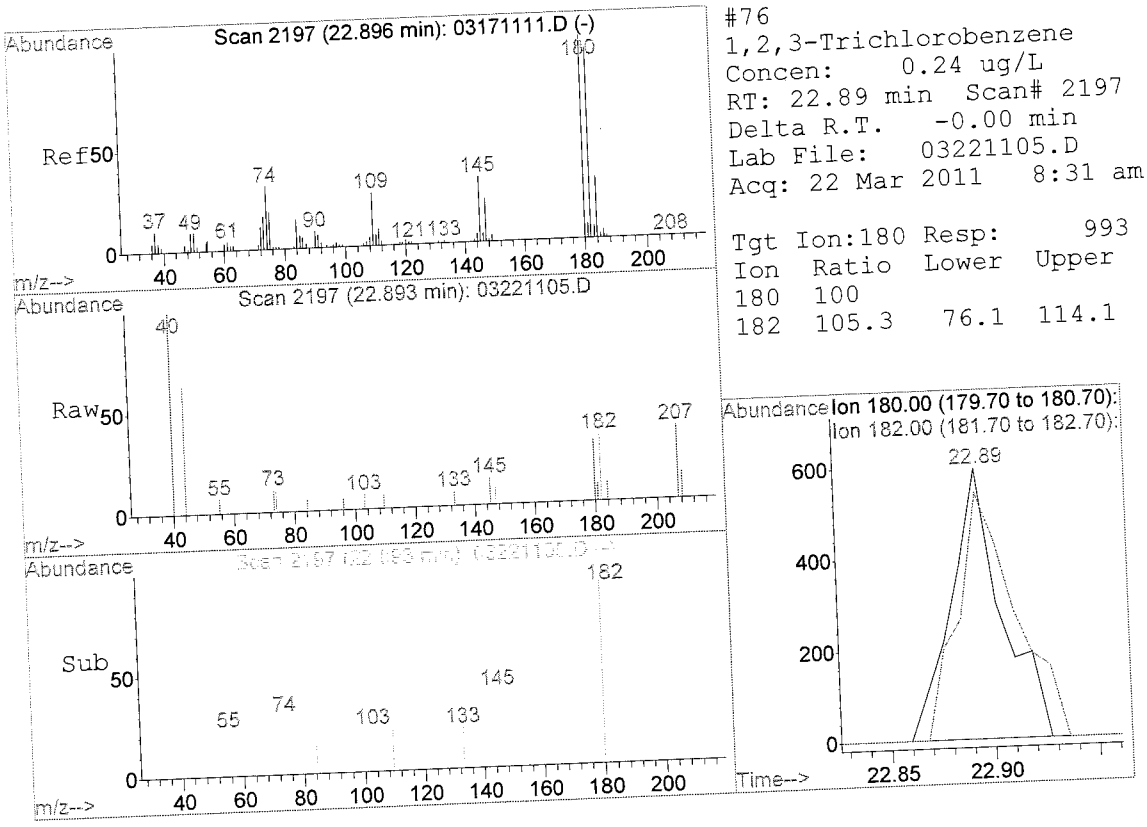




#74
Naphthalene
Concen: 1.30 ug/L
RT: 22.62 min Scan# 2165
Delta R.T. -0.00 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:128 Resp: 8874





#76
1,2,3-Trichlorobenzene
Concen: 0.24 ug/L
RT: 22.89 min Scan# 2197
Delta R.T. -0.00 min
Lab File: 03221105.D
Acq: 22 Mar 2011 8:31 am

Tgt Ion:180 Resp: 993

Ion	Ratio	Lower	Upper
180	100		
182	105.3	76.1	114.1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221108.D
Acq On : 22 Mar 2011 10:03 am
Sample : PUC0982-02
Misc : SOURCE
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:25 2011

Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

3/22/11

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	188150	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	330789	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	278096	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	127366	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	109514	23.13 ug/L	0.00
Spiked Amount 25.000			Recovery	= 92.52%	
39) Toluene-d8	14.11	98	376684	22.58 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.32%	
53) 4-Bromofluorobenzene	17.74	95	130058	21.34 ug/L	0.00
Spiked Amount 25.000			Recovery	= 85.36%	

Target Compounds					Qvalue
5) Bromomethane	5.81	94	106	0.27 ug/L	NSM 99
7) Trichlorofluoromethane	6.78	101	1147	0.13 ug/L	LE/NT 95 J
8) Acetone	6.94	43	1256	~~Below Cal~~	# 67
10) 1,1-Dichloroethene	7.50	96	14372	2.71 ug/L	92
15) MTBE	8.74	73	1363	0.14 ug/L	#LE/NT 81 J
16) 1,1-Dichloroethane	8.91	63	23225	1.90 ug/L	99
19) cis-1,2-Dichloroethene	9.66	96	11914	1.96 ug/L	99
21) Chloroform	9.93	83	14603	1.44 ug/L	96
32) Trichloroethene	12.26	95	44876	7.93 ug/L	99
42) 1,3-Dichloropropane	14.11	76	4370	0.69 ug/L	#UPT 72
46) Tetrachloroethene	15.21	166	2169	0.43 ug/L	LE/NT 90 J

LC 03/22/11

(#) = qualifier out of range (m) = manual integration
03221108.D 031711.M Tue Mar 22 12:26:05 2011

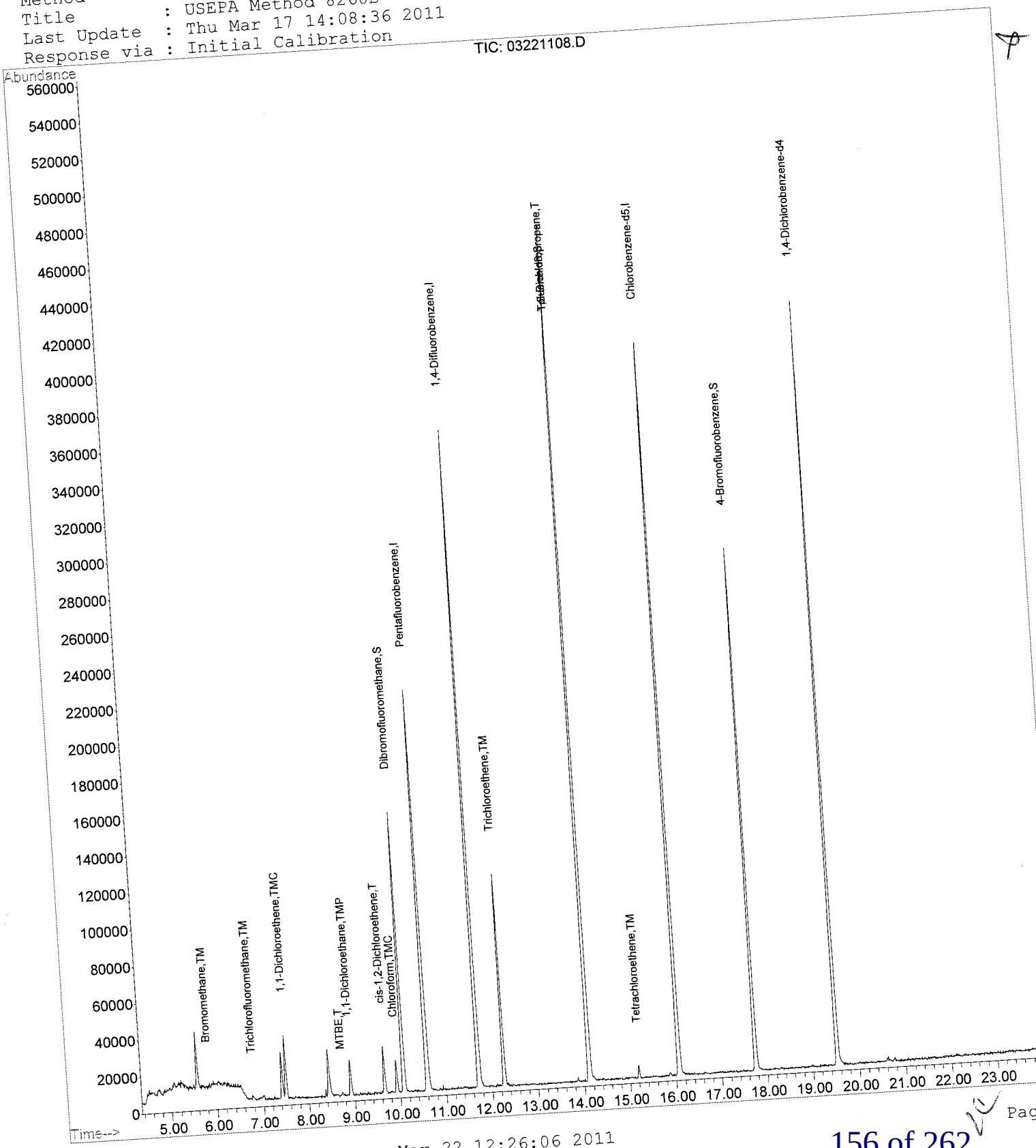
Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221108.D
Acq On : 22 Mar 2011 10:03 am
Sample : PUC0982-02
Misc : SOURCE
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:25 2011

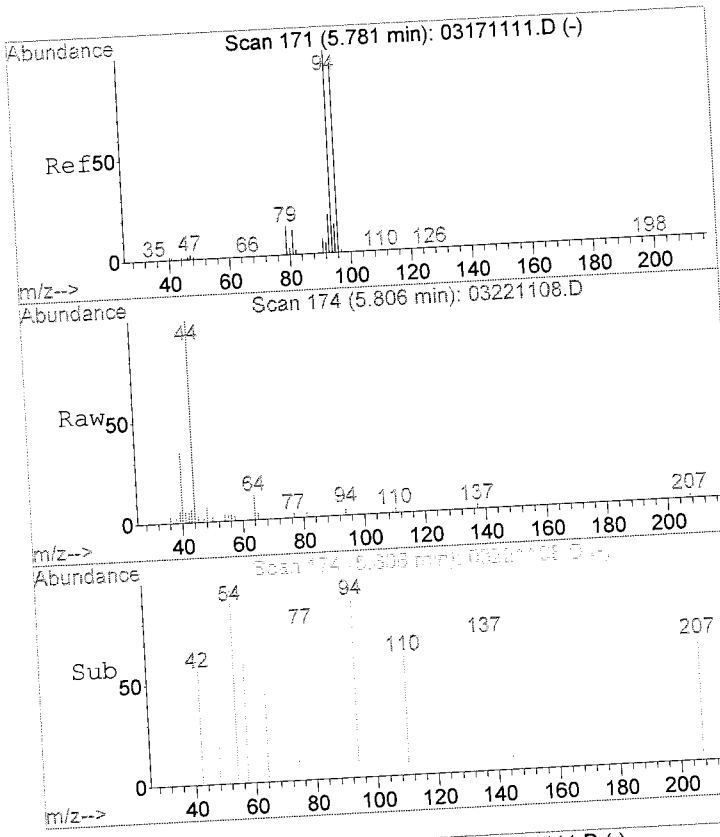
Vial: 7
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



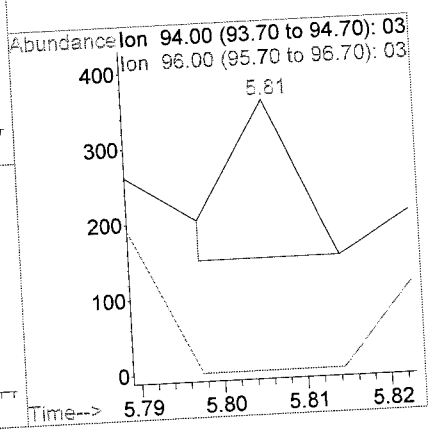
03221108.D 031711.M Tue Mar 22 12:26:06 2011

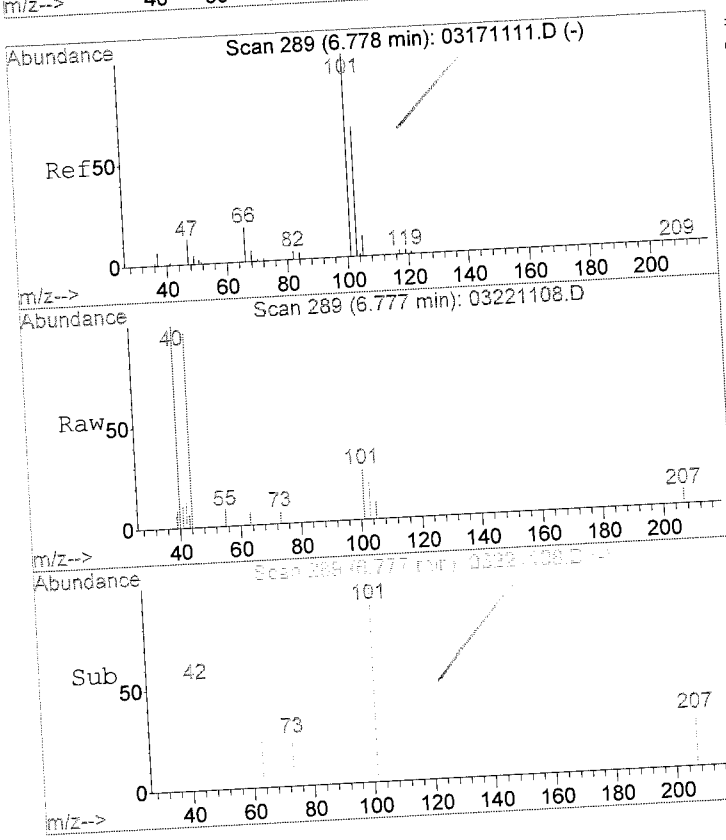


#5
Bromomethane
Concen: 0.27 ug/L
RT: 5.81 min Scan# 174
Delta R.T. 0.03 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 94 Resp: 106

Ion	Ratio	Lower	Upper
94	100		
96	91.5	74.0	111.0

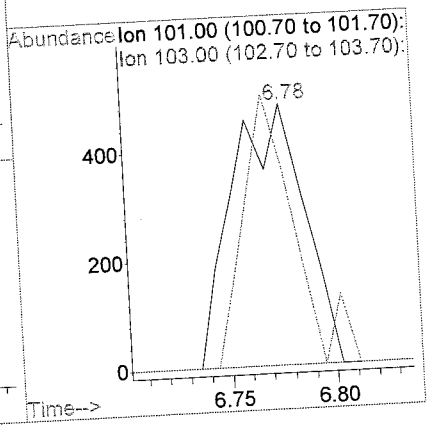


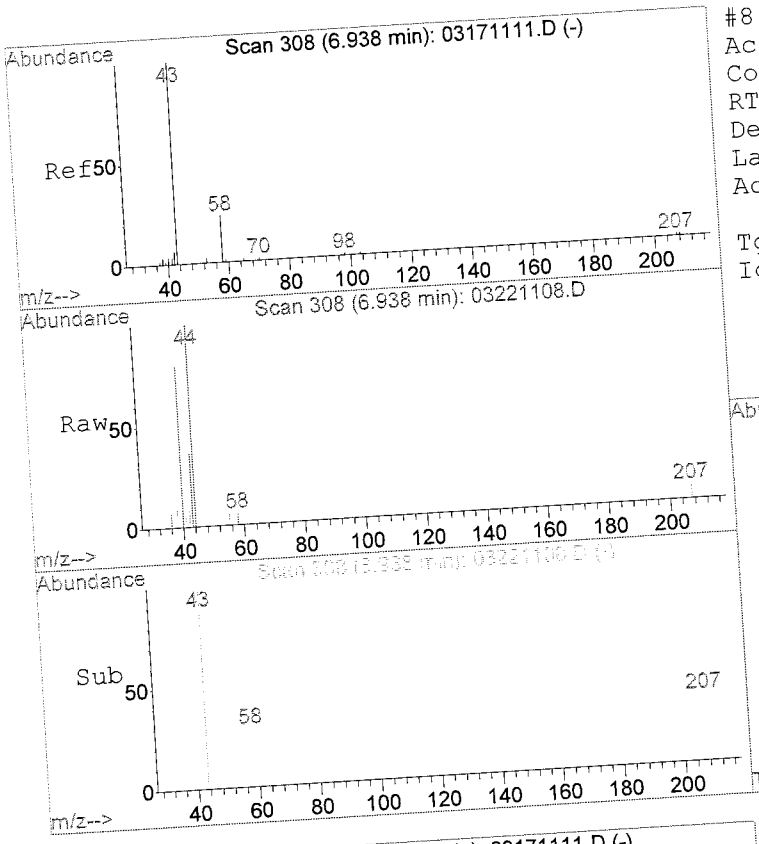


#7
Trichlorofluoromethane
Concen: 0.13 ug/L
RT: 6.78 min Scan# 289
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion:101 Resp: 1147

Ion	Ratio	Lower	Upper
101	100		
103	67.3	50.7	76.1

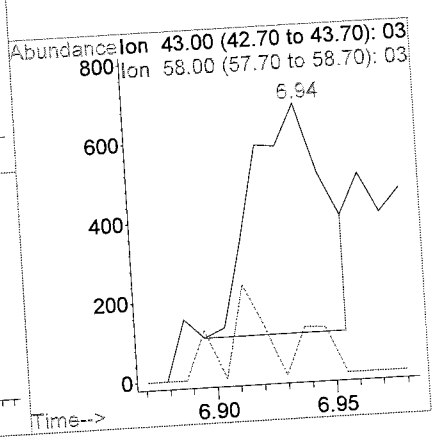


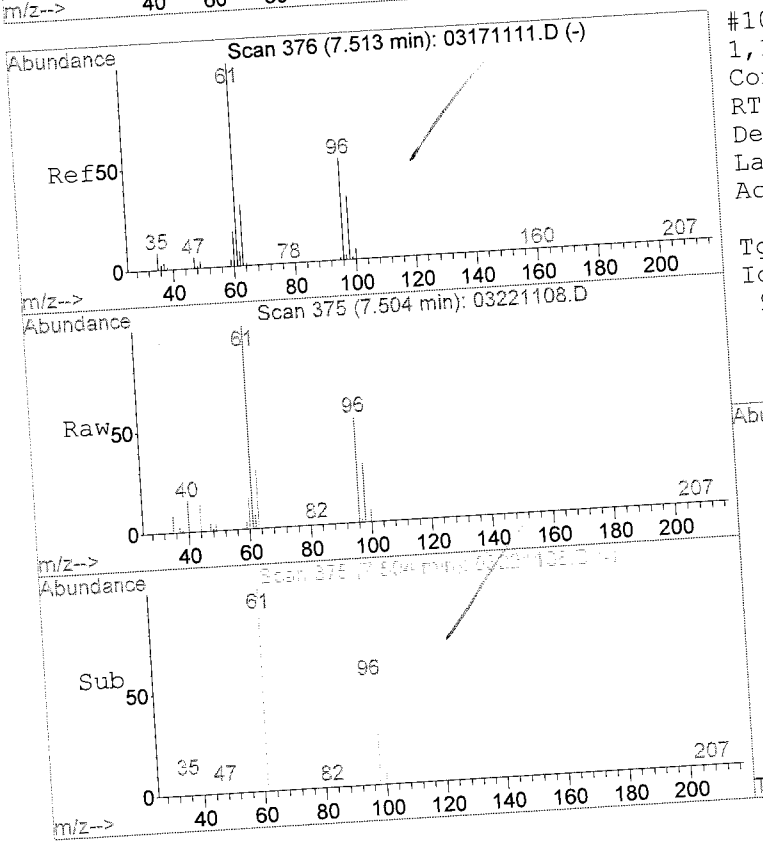


#8
Acetone
Concen: Below Cal
RT: 6.94 min Scan# 308
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 43 Resp: 1256

Ion	Ratio	Lower	Upper
43	100		
58	9.6	21.2	31.8#

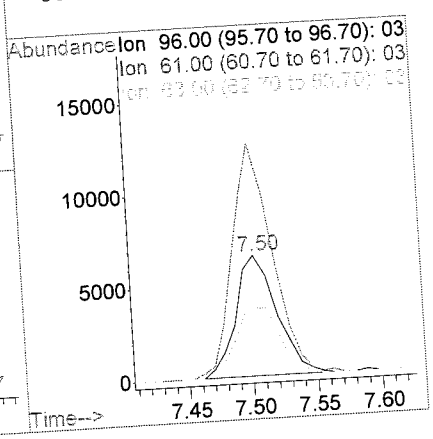


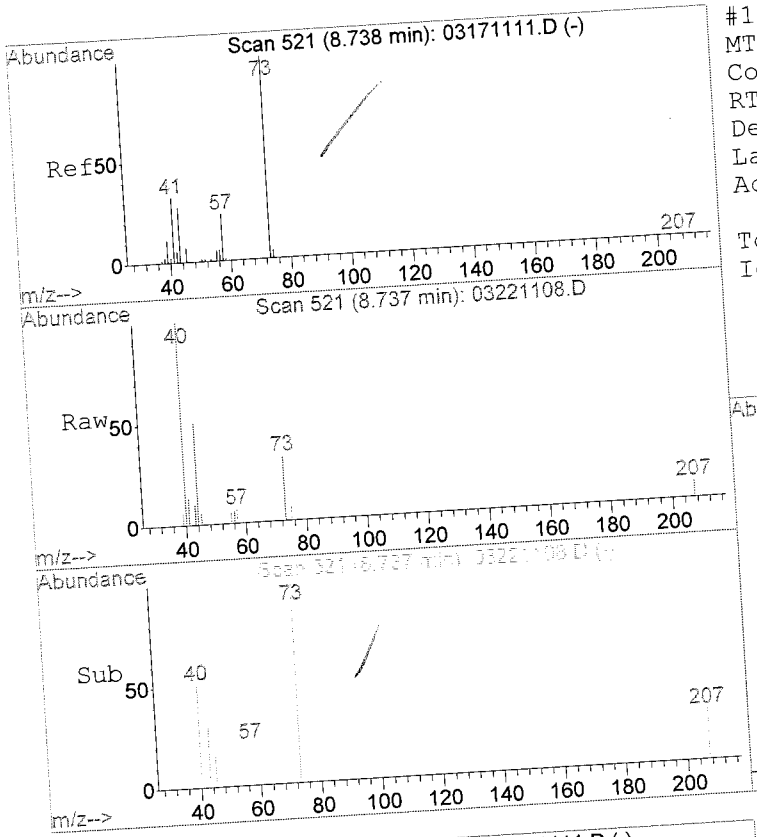


#10
1,1-Dichloroethene
Concen: 2.71 ug/L
RT: 7.50 min Scan# 375
Delta R.T. -0.01 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 96 Resp: 14372

Ion	Ratio	Lower	Upper
96	100		
61	186.4	160.7	241.1
63	61.2	50.9	76.3

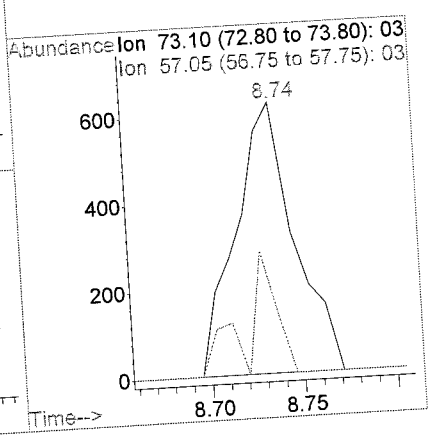


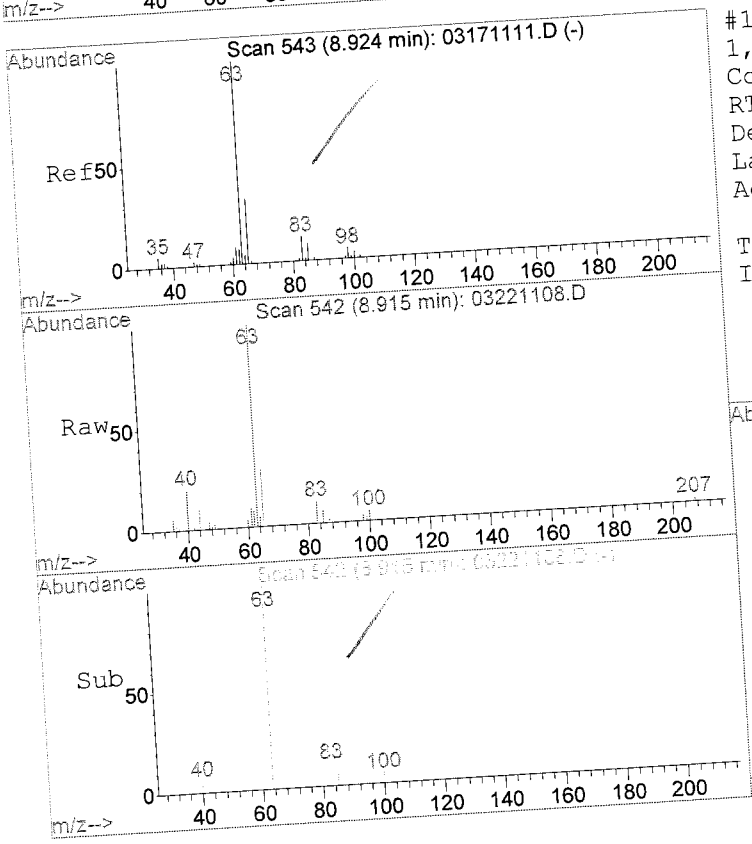


#15
MTBE
Concen: 0.14 ug/L
RT: 8.74 min Scan# 521
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 73 Resp: 1363

Ion	Ratio	Lower	Upper
73	100		
57	15.4	20.0	30.0#

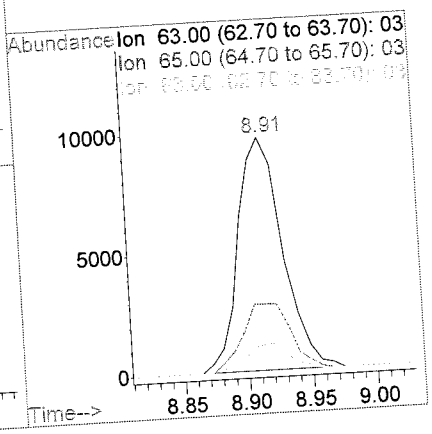


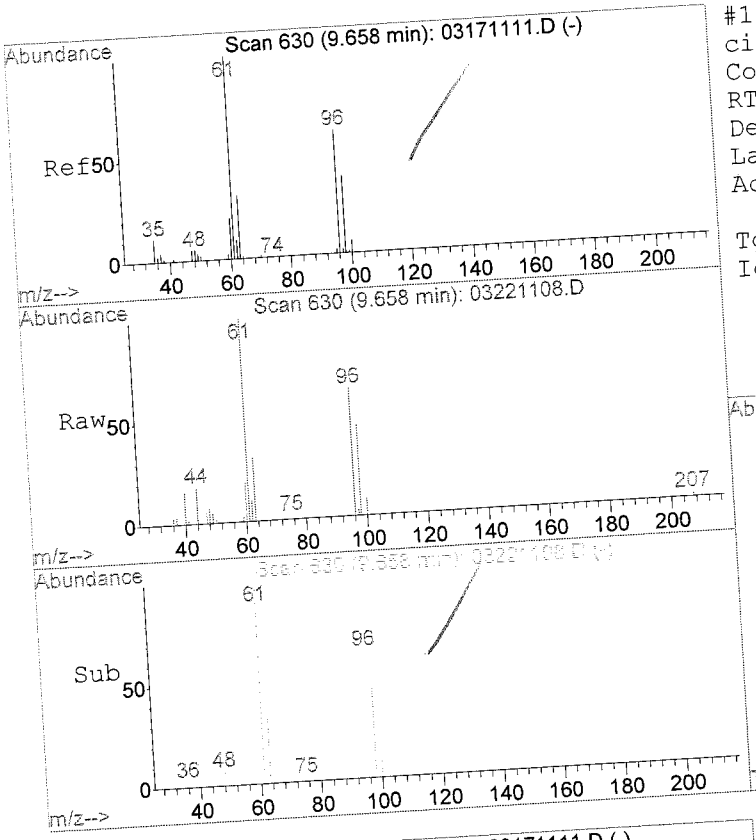


#16
1,1-Dichloroethane
Concen: 1.90 ug/L
RT: 8.91 min Scan# 542
Delta R.T. -0.01 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 63 Resp: 23225

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.2	37.8
83	11.1	9.2	13.8

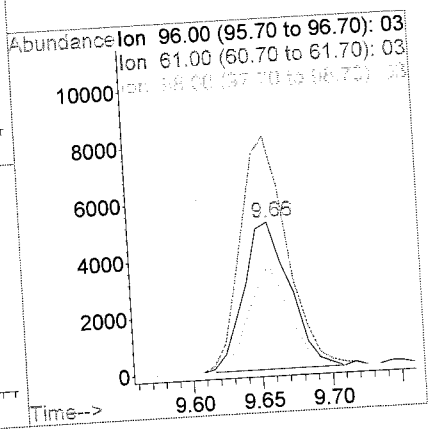


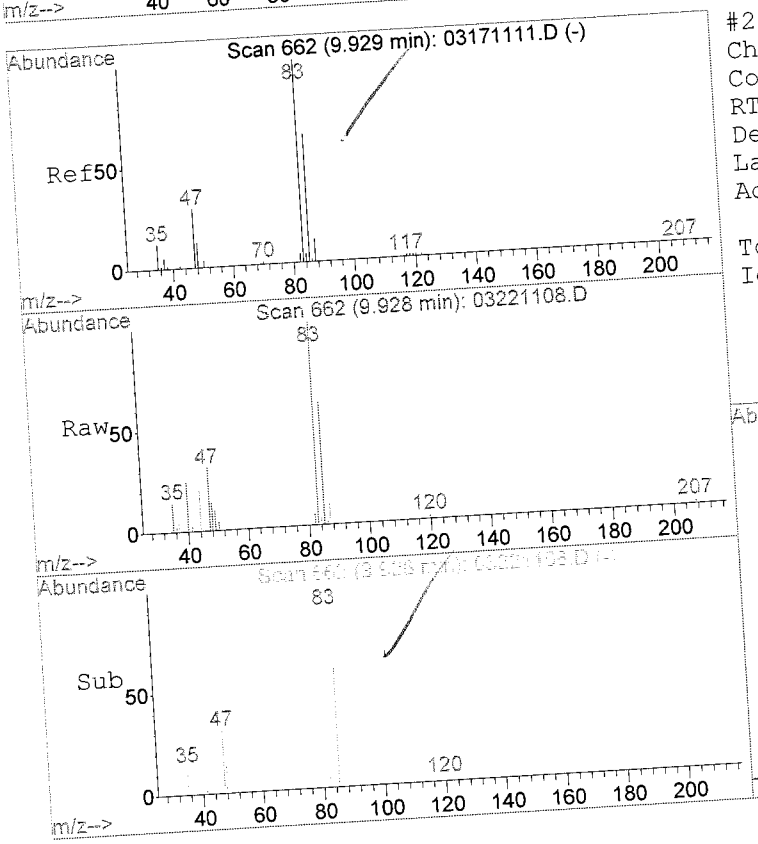


#19
cis-1,2-Dichloroethene
Concen: 1.96 ug/L
RT: 9.66 min Scan# 630
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 96 Resp: 11914

Ion	Ratio	Lower	Upper
96	100		
61	159.6	128.5	192.7
98	62.5	49.9	74.9

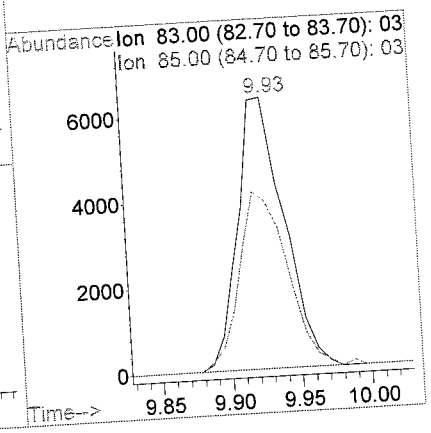


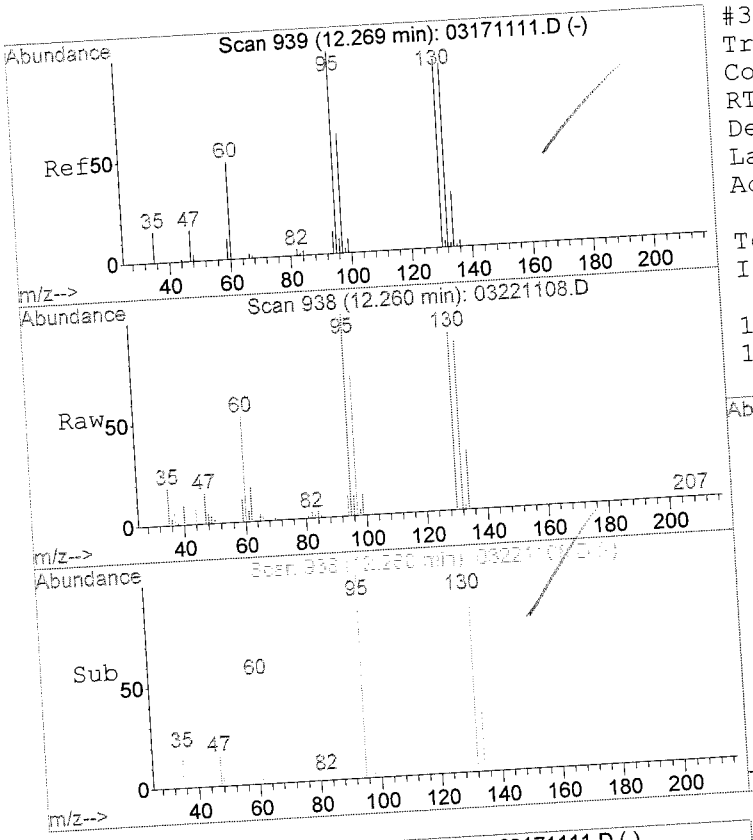


#21
Chloroform
Concen: 1.44 ug/L
RT: 9.93 min Scan# 662
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 83 Resp: 14603

Ion	Ratio	Lower	Upper
83	100		
85	67.9	51.6	77.4

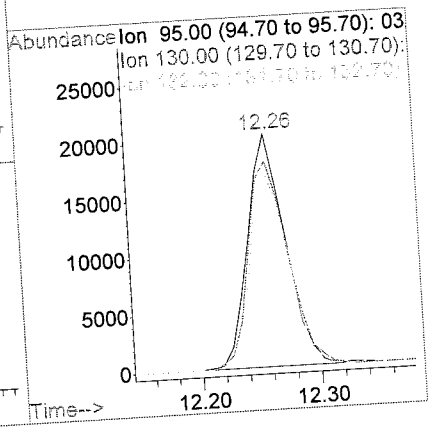


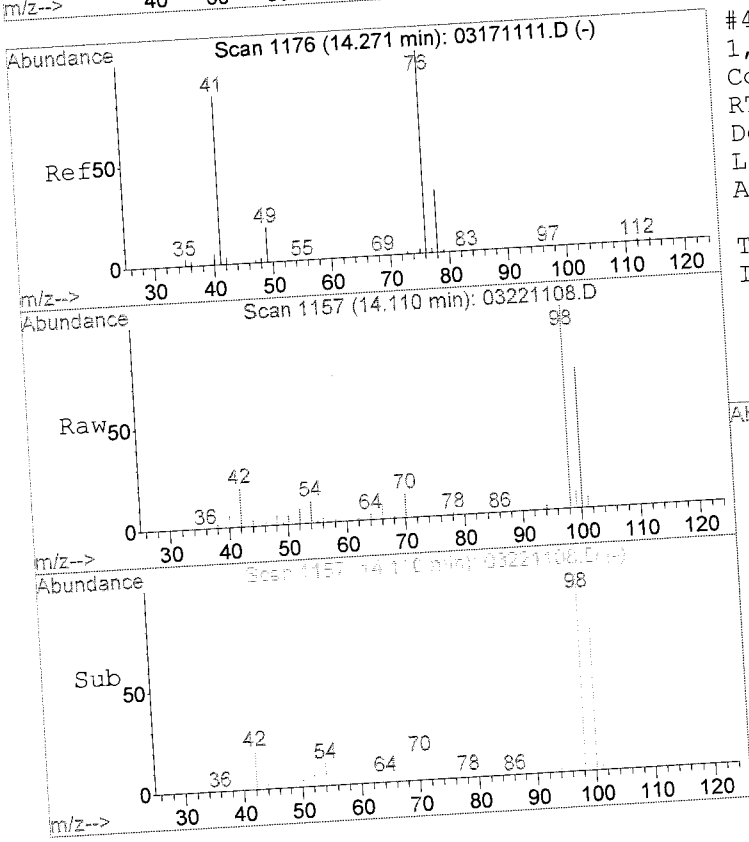


#32
Trichloroethene
Concen: 7.93 ug/L
RT: 12.26 min Scan# 938
Delta R.T. -0.01 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 95 Resp: 44876

Ion	Ratio	Lower	Upper
95	100		
130	93.0	74.2	111.4
132	86.5	70.8	106.2

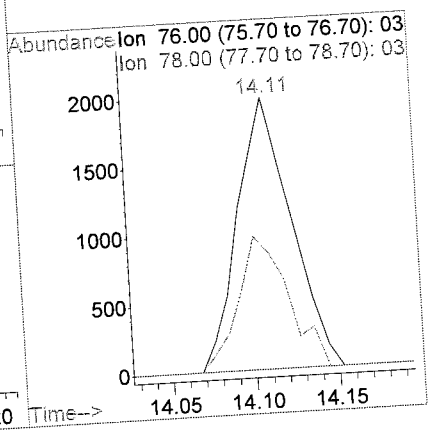


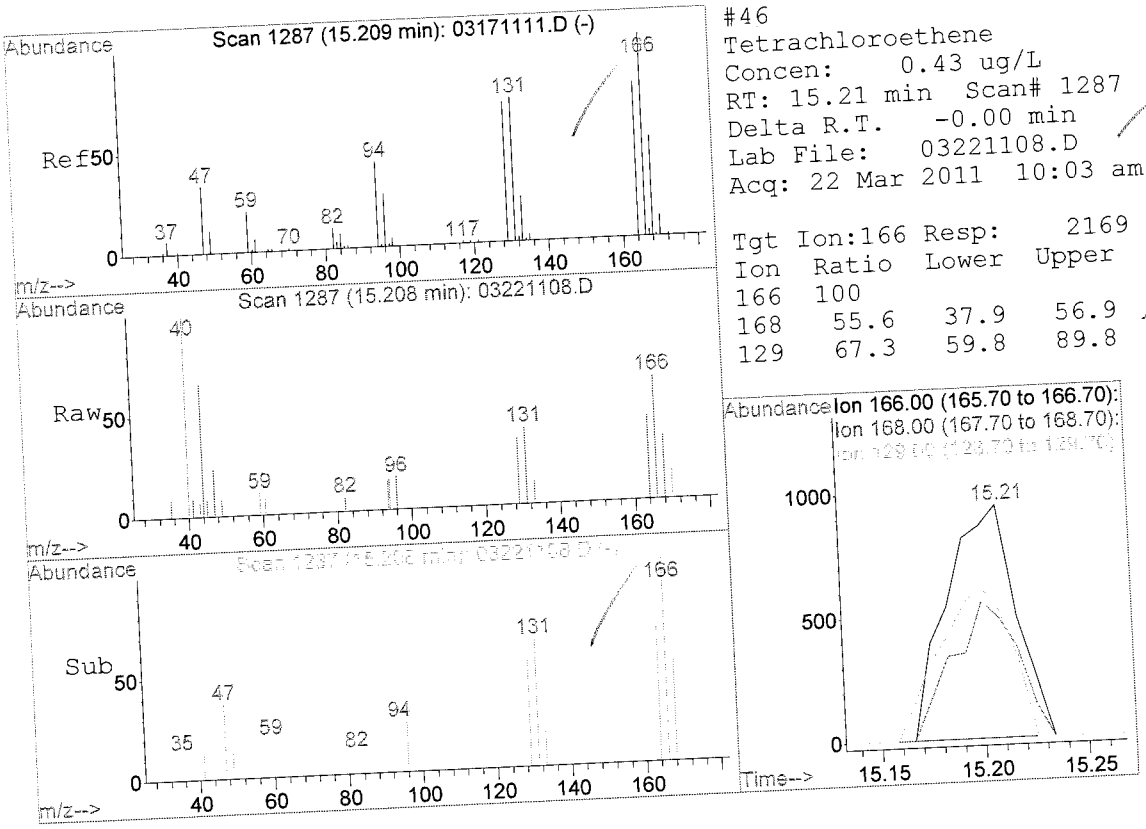


#42
1,3-Dichloropropane
Concen: 0.69 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. -0.16 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion: 76 Resp: 4370

Ion	Ratio	Lower	Upper
76	100		
78	46.1	24.6	37.0#





#46
Tetrachloroethene
Concen: 0.43 ug/L
RT: 15.21 min Scan# 1287
Delta R.T. -0.00 min
Lab File: 03221108.D
Acq: 22 Mar 2011 10:03 am

Tgt Ion:166 Resp: 2169

Ion	Ratio	Lower	Upper
166	100		
168	55.6	37.9	56.9
129	67.3	59.8	89.8

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221109.D
Acq On : 22 Mar 2011 10:34 am
Sample : -MS1
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011

Vial: 8
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

✓ 3/22/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.59	168	187013	25.00 ug/L	-0.01
26) 1,4-Difluorobenzene	11.71	114	325050	25.00 ug/L	-0.01
41) Chlorobenzene-d5	16.06	117	268038	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	124976	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	111044	23.60 ug/L	0.00
Spiked Amount 25.000			Recovery	= 94.40%	
39) Toluene-d8	14.11	98	375789	22.92 ug/L	-0.01
Spiked Amount 25.000			Recovery	= 91.68%	
53) 4-Bromofluorobenzene	17.75	95	134033	22.82 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.28%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	167673	18.98 ug/L	97
3) Chloromethane	4.89	50	253987	17.39 ug/L	99
4) Vinyl chloride	5.18	62	247018	18.99 ug/L	99
5) Bromomethane	5.77	94	122262	18.12 ug/L	99
6) Chloroethane	5.97	64	138341	20.06 ug/L	99
7) Trichlorofluoromethane	6.77	101	216048	23.89 ug/L	97
8) Acetone	6.92	43	30195	27.20 ug/L	94
9) Iodomethane	7.57	142	101387	24.25 ug/L	98
10) 1,1-Dichloroethene	7.51	96	118322	22.43 ug/L	98
11) Methylene chloride	7.70	84	123188	19.85 ug/L	100
12) Freon 113	7.77	101	121362	19.43 ug/L	97
13) Carbon disulfide	8.02	76	440334	23.46 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	118176	20.25 ug/L	97
15) MTBE	8.72	73	198052	19.86 ug/L	100
16) 1,1-Dichloroethane	8.91	63	262827	21.59 ug/L	100
17) Vinyl acetate	9.07	43	230925	24.42 ug/L	100
18) 2-Butanone (MEK)	9.46	72	6908	23.69 ug/L	57
19) cis-1,2-Dichloroethene	9.65	96	129340	21.40 ug/L	98
20) Bromochloromethane	9.86	128	45302	20.48 ug/L	97
21) Chloroform	9.92	83	214765	21.38 ug/L	99
22) 2,2-Dichloropropane	10.02	77	161850	19.87 ug/L	99
24) 1,2-Dichloroethane	10.77	62	124884	20.37 ug/L	100
25) 1,1,1-Trichloroethane	10.90	97	149265	20.69 ug/L	99
27) 1,1-Dichloropropene	11.14	75	176835	21.25 ug/L	99
28) Carbon tetrachloride	11.38	117	123392	21.48 ug/L	99
29) Benzene	11.43	78	441095	19.83 ug/L	99
30) Dibromomethane	12.16	93	56613	21.51 ug/L	98
31) 1,2-Dichloropropane	12.20	63	131730	21.20 ug/L	99
32) Trichloroethene	12.25	95	156001	28.04 ug/L	99
33) Bromodichloromethane	12.32	83	134719	20.63 ug/L	99
34) 2-Chlorovinylethylether	12.89	63	115	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	165392	20.86 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.29	43	75059	23.12 ug/L	100
37) trans-1,3-Dichloropropene	13.72	75	133331	21.79 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	62511	21.25 ug/L	98
40) Toluene	14.21	92	253680	20.06 ug/L	99
42) 1,3-Dichloropropane	14.27	76	125269	20.65 ug/L	97

LC 03/22/11

(#) = qualifier out of range (m) = manual integration
03221109.D 031711.M Tue Mar 22 12:26:27 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221109.D Vial: 8
Acq On : 22 Mar 2011 10:34 am Operator: LC
Sample : -MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 22 12:26 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

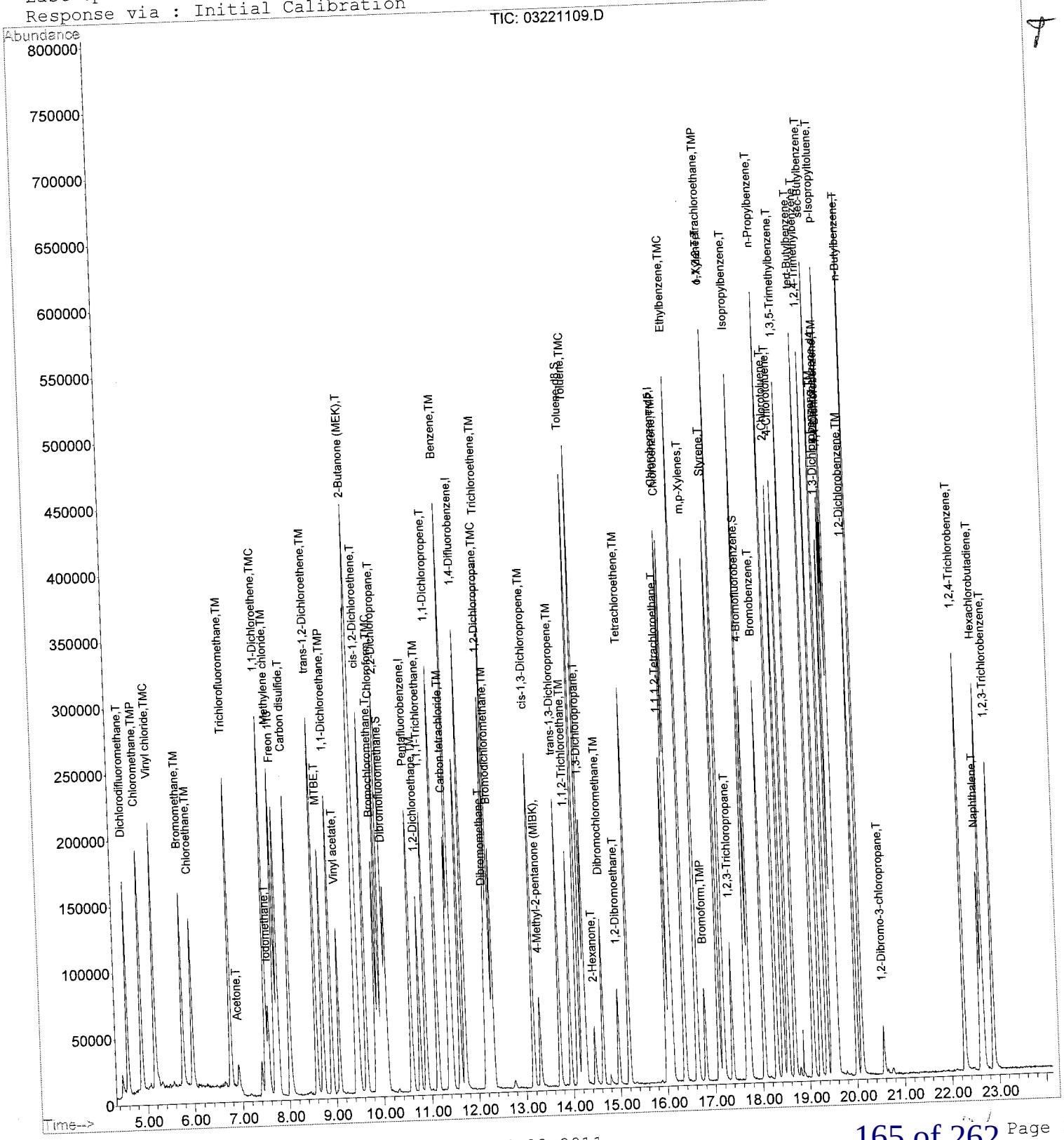
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	48952	24.21 ug/L #	91
44) Dibromochloromethane	14.64	129	79005	21.66 ug/L	99
45) 1,2-Dibromoethane	14.98	107	64283	21.11 ug/L	98
46) Tetrachloroethene	15.19	166	102000	21.22 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	83023	20.92 ug/L	97
48) Chlorobenzene	16.12	112	259623	20.61 ug/L	100
49) Ethylbenzene	16.37	91	489576	20.63 ug/L	99
50) m,p-Xylenes	16.63	106	169469	20.39 ug/L	99
51) Styrene	17.09	104	251259	19.93 ug/L	100
52) o-Xylene	17.19	106	164097	20.31 ug/L	98
55) Bromoform	16.81	173	41119	22.72 ug/L	97
56) 1,1,2,2-Tetrachloroethane	17.17	83	80806	22.08 ug/L	100
57) 1,2,3-Trichloropropane	17.37	110	17587	22.09 ug/L	96
58) Isopropylbenzene	17.69	105	443465	23.17 ug/L	98
59) Bromobenzene	18.04	156	97005	21.97 ug/L	99
60) n-Propylbenzene	18.30	91	600146	21.97 ug/L	100
61) 2-Chlorotoluene	18.44	91	331120	20.69 ug/L	99
62) 4-Chlorotoluene	18.54	91	347759	21.92 ug/L	100
63) 1,3,5-Trimethylbenzene	18.69	105	360308	21.79 ug/L	100
64) tert-Butylbenzene	19.08	119	302623	21.50 ug/L	99
65) 1,2,4-Trimethylbenzene	19.22	105	360516	21.69 ug/L	98
66) sec-Butylbenzene	19.37	105	512653	21.24 ug/L	99
67) 1,3-Dichlorobenzene	19.48	146	191411	21.28 ug/L	98
68) 1,4-Dichlorobenzene	19.56	146	197055	21.76 ug/L	98
69) p-Isopropyltoluene	19.60	119	408509	22.15 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	168894	21.58 ug/L	99
71) n-Butylbenzene	20.11	91	456627	22.24 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.58	157	10528	21.59 ug/L	91
73) 1,2,4-Trichlorobenzene	22.27	180	118528	23.45 ug/L	100
74) Naphthalene	22.61	128	152867	22.81 ug/L	100
75) Hexachlorobutadiene	22.67	225	74190	22.99 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	96540	23.43 ug/L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221109.D Vial: 8
Acq On : 22 Mar 2011 10:34 am Operator: LC
Sample : -MS1 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221110.D
Acq On : 22 Mar 2011 11:05 am
Sample : -MSD1
Misc : ~~100X~~ LC 03/22/11
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

3/22/11

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	186713	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	327964	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.06	117	272122	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	127198	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	108034	22.99 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.96%	
39) Toluene-d8	14.11	98	371265	22.45 ug/L	0.00
Spiked Amount 25.000			Recovery	= 89.80%	
53) 4-Bromofluorobenzene	17.74	95	137039	22.98 ug/L	0.00
Spiked Amount 25.000			Recovery	= 91.92%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.59	85	167290	18.97 ug/L	99
3) Chloromethane	4.89	50	264201	18.12 ug/L	98
4) Vinyl chloride	5.17	62	250008	19.25 ug/L	100
5) Bromomethane	5.77	94	123708	18.37 ug/L	99
6) Chloroethane	5.98	64	137202	19.93 ug/L	98
7) Trichlorofluoromethane	6.77	101	213241	23.62 ug/L	99
8) Acetone	6.93	43	28065	25.05 ug/L	99
9) Iodomethane	7.56	142	102145	24.47 ug/L	98
10) 1,1-Dichloroethene	7.51	96	117328	22.28 ug/L	99
11) Methylene chloride	7.70	84	124814	20.15 ug/L	98
12) Freon 113	7.77	101	119416	19.15 ug/L	98
13) Carbon disulfide	8.02	76	430910	23.00 ug/L	100
14) trans-1,2-Dichloroethene	8.59	96	118271	20.30 ug/L	96
15) MTBE	8.73	73	202171	20.30 ug/L	99
16) 1,1-Dichloroethane	8.92	63	263888	21.71 ug/L	99
17) Vinyl acetate	9.08	43	227435	24.09 ug/L	99
18) 2-Butanone (MEK)	9.47	72	6724	23.12 ug/L	61
19) cis-1,2-Dichloroethene	9.65	96	127577	21.14 ug/L	99
20) Bromochloromethane	9.86	128	46053	20.86 ug/L	96
21) Chloroform	9.92	83	214343	21.37 ug/L	99
22) 2,2-Dichloropropane	10.02	77	158836	19.53 ug/L	97
24) 1,2-Dichloroethane	10.77	62	124391	20.32 ug/L	99
25) 1,1,1-Trichloroethane	10.90	97	147262	20.45 ug/L	100
27) 1,1-Dichloropropene	11.14	75	172867	20.59 ug/L	99
28) Carbon tetrachloride	11.38	117	121871	21.03 ug/L	99
29) Benzene	11.43	78	446742	19.90 ug/L	99
30) Dibromomethane	12.16	93	56853	21.41 ug/L	98
31) 1,2-Dichloropropane	12.20	63	130272	20.78 ug/L	99
32) Trichloroethene	12.26	95	158066	28.16 ug/L	99
33) Bromodichloromethane	12.32	83	137066	20.80 ug/L	99
34) 2-Chlorovinylethylether	13.15	63	758	Below Cal #	55
35) cis-1,3-Dichloropropene	13.16	75	164550	20.57 ug/L	99
36) 4-Methyl-2-pentanone (MIBK	13.30	43	75063	22.91 ug/L	99
37) trans-1,3-Dichloropropene	13.72	75	134829	21.84 ug/L	99
38) 1,1,2-Trichloroethane	13.94	83	63229	21.31 ug/L	98
40) Toluene	14.20	92	256827	20.13 ug/L	99
42) 1,3-Dichloropropane	14.26	76	130073	21.12 ug/L	97

(#) = qualifier out of range (m) = manual integration
03221110.D 031711.M Tue Mar 22 12:26:51 2011

LC 03/22/11

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221110.D
Acq On : 22 Mar 2011 11:05 am
Sample : -MSD1
Misc : ~~100X~~ uc 03/22/11
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011

Vial: 9
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

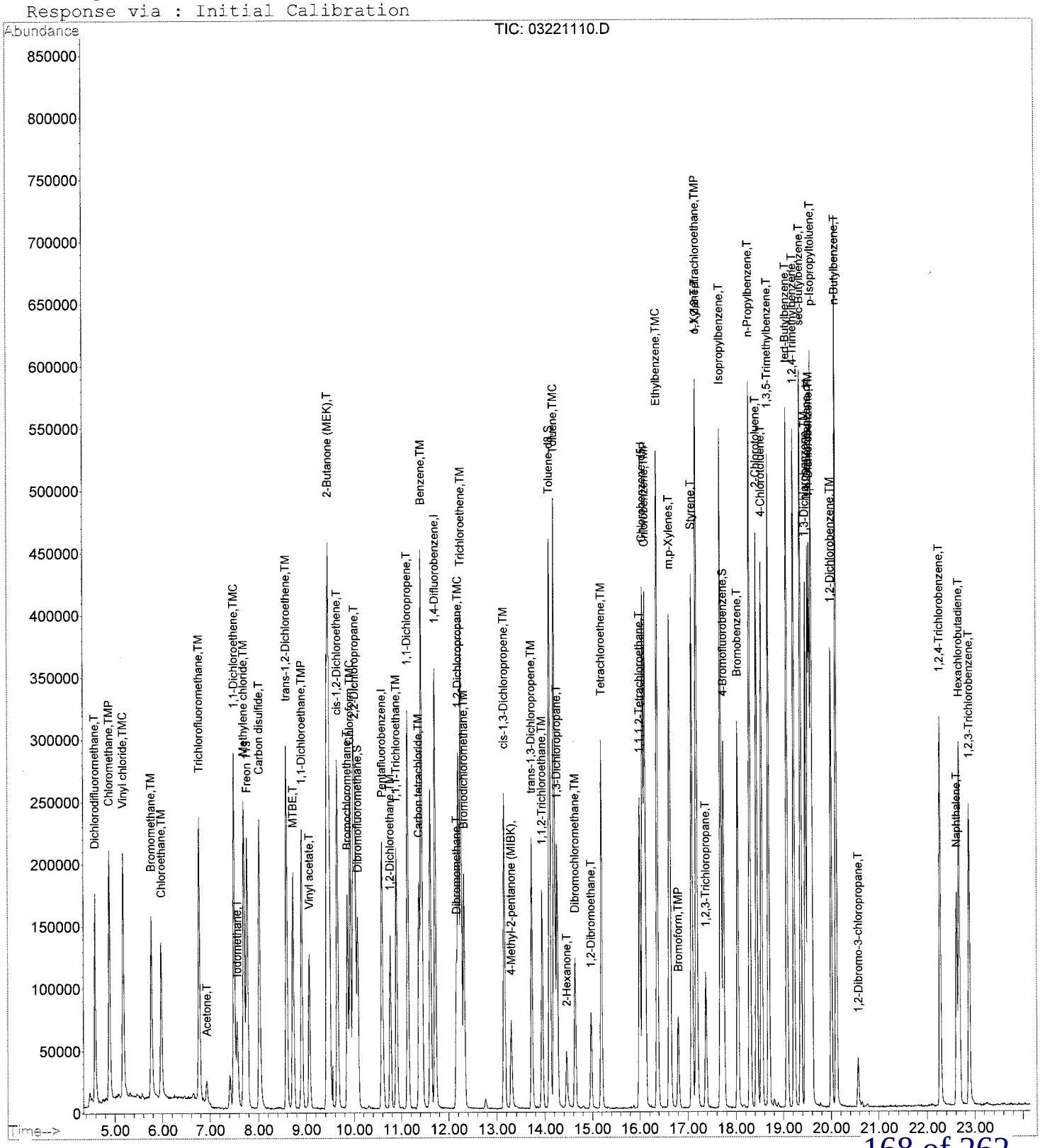
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Hexanone	14.46	43	51449	25.06 ug/L #	89
44) Dibromochloromethane	14.64	129	80270	21.68 ug/L	99
45) 1,2-Dibromoethane	14.97	107	67888	21.96 ug/L	100
46) Tetrachloroethene	15.19	166	103042	21.11 ug/L	99
47) 1,1,1,2-Tetrachloroethane	16.00	131	82512	20.47 ug/L	98
48) Chlorobenzene	16.11	112	261280	20.43 ug/L	99
49) Ethylbenzene	16.37	91	493565	20.48 ug/L	100
50) m,p-Xylenes	16.64	106	172841	20.48 ug/L	99
51) Styrene	17.09	104	252548	19.73 ug/L	98
52) o-Xylene	17.19	106	162978	19.87 ug/L	100
55) Bromoform	16.81	173	41208	22.37 ug/L	94
56) 1,1,2,2-Tetrachloroethane	17.18	83	83750	22.49 ug/L	100
57) 1,2,3-Trichloropropane	17.37	110	18202	22.46 ug/L	95
58) Isopropylbenzene	17.69	105	449720	23.09 ug/L	99
59) Bromobenzene	18.04	156	98766	21.98 ug/L	99
60) n-Propylbenzene	18.29	91	608804	21.90 ug/L	100
61) 2-Chlorotoluene	18.44	91	336063	20.63 ug/L	99
62) 4-Chlorotoluene	18.55	91	349191	21.62 ug/L	100
63) 1,3,5-Trimethylbenzene	18.69	105	356745	21.20 ug/L	99
64) tert-Butylbenzene	19.08	119	301682	21.05 ug/L	100
65) 1,2,4-Trimethylbenzene	19.23	105	364419	21.54 ug/L	98
66) sec-Butylbenzene	19.37	105	518392	21.11 ug/L	100
67) 1,3-Dichlorobenzene	19.48	146	191590	20.92 ug/L	99
68) 1,4-Dichlorobenzene	19.56	146	195033	21.16 ug/L	99
69) p-Isopropyltoluene	19.60	119	409279	21.80 ug/L	100
70) 1,2-Dichlorobenzene	20.01	146	170099	21.36 ug/L	99
71) n-Butylbenzene	20.11	91	458492	21.94 ug/L	100
72) 1,2-Dibromo-3-chloropropan	20.57	157	11352	22.87 ug/L	91
73) 1,2,4-Trichlorobenzene	22.28	180	124334	24.17 ug/L	99
74) Naphthalene	22.62	128	166957	24.48 ug/L	100
75) Hexachlorobutadiene	22.67	225	71863	21.88 ug/L	98
76) 1,2,3-Trichlorobenzene	22.89	180	100478	23.96 ug/L	98

(#) = qualifier out of range (m) = manual integration
03221110.D 031711.M Tue Mar 22 12:26:52 2011

Quantitation Report

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221110.D Vial: 9
Acq On : 22 Mar 2011 11:05 am Operator: LC
Sample : -MSD1 Inst : GCMS7
Misc : 100X Multiplr: 1.00
MS Integration Params: RTEINT2.P
Quant Time: Mar 22 12:26 2011 Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221119.D Vial: 4
Acq On : 22 Mar 2011 3:43 pm Operator: LC
Sample : PUC1113-01 Inst : GCMS7
Misc : Multiplr: 1.00
MS Integration Params: RTEINT2.P Quant Results File: 031711.RES
Quant Time: Mar 23 6:43 2011

Quant Method : C:\HPCHEM\1...\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	10.60	168	177198	25.00 ug/L	0.00
26) 1,4-Difluorobenzene	11.72	114	312344	25.00 ug/L	0.00
41) Chlorobenzene-d5	16.07	117	259516	25.00 ug/L	0.00
54) 1,4-Dichlorobenzene-d4	19.53	152	118101	25.00 ug/L	0.00
System Monitoring Compounds					
23) Dibromofluoromethane	10.08	113	106422	23.87 ug/L	0.00
Spiked Amount 25.000			Recovery	= 95.48%	
39) Toluene-d8	14.11	98	357450	22.69 ug/L	0.00
Spiked Amount 25.000			Recovery	= 90.76%	
53) 4-Bromofluorobenzene	17.75	95	127260	22.37 ug/L	0.00
Spiked Amount 25.000			Recovery	= 89.48%	

Target Compounds					Qvalue
5) Bromomethane	5.83	94	79	0.27 ug/L LRL/NT	92
7) Trichlorofluoromethane	6.77	101	2536	0.30 ug/L	92
8) Acetone	6.92	43	1132	Below Cal #	48
10) 1,1-Dichloroethene	7.51	96	35013	7.01 ug/L	99
11) Methylene chloride	7.70	84	2967	0.50 ug/L LRL/NT	87
12) Freon 113	7.76	101	1726	0.29 ug/L	91
14) trans-1,2-Dichloroethene	8.60	96	534	0.10 ug/L #	67
15) MTBE	8.74	73	1563	0.17 ug/L #	85
16) 1,1-Dichloroethane	8.92	63	58907	5.11 ug/L	98
18) 2-Butanone (MEK)	9.64	72	53	1.07 ug/L # LRL/NT	1
19) cis-1,2-Dichloroethene	9.66	96	60140	10.50 ug/L	99
21) Chloroform	9.93	83	9206	0.97 ug/L	97
24) 1,2-Dichloroethane	10.78	62	964	0.17 ug/L # LRL/NT	76
31) 1,2-Dichloropropane	12.26	63	1067	0.18 ug/L #	90
32) Trichloroethene	12.26	95	266454	49.85 ug/L	98
38) 1,1,2-Trichloroethane	14.11	83	302	0.11 ug/L # LRL/NT	1
42) 1,3-Dichloropropane	14.11	76	3785	0.64 ug/L # WRT	54
46) Tetrachloroethene	15.20	166	10795	2.32 ug/L	98

M 4/21/11

VO 03/23/11

(#) = qualifier out of range (m) = manual integration
03221119.D 031711.M Wed Mar 23 06:43:55 2011

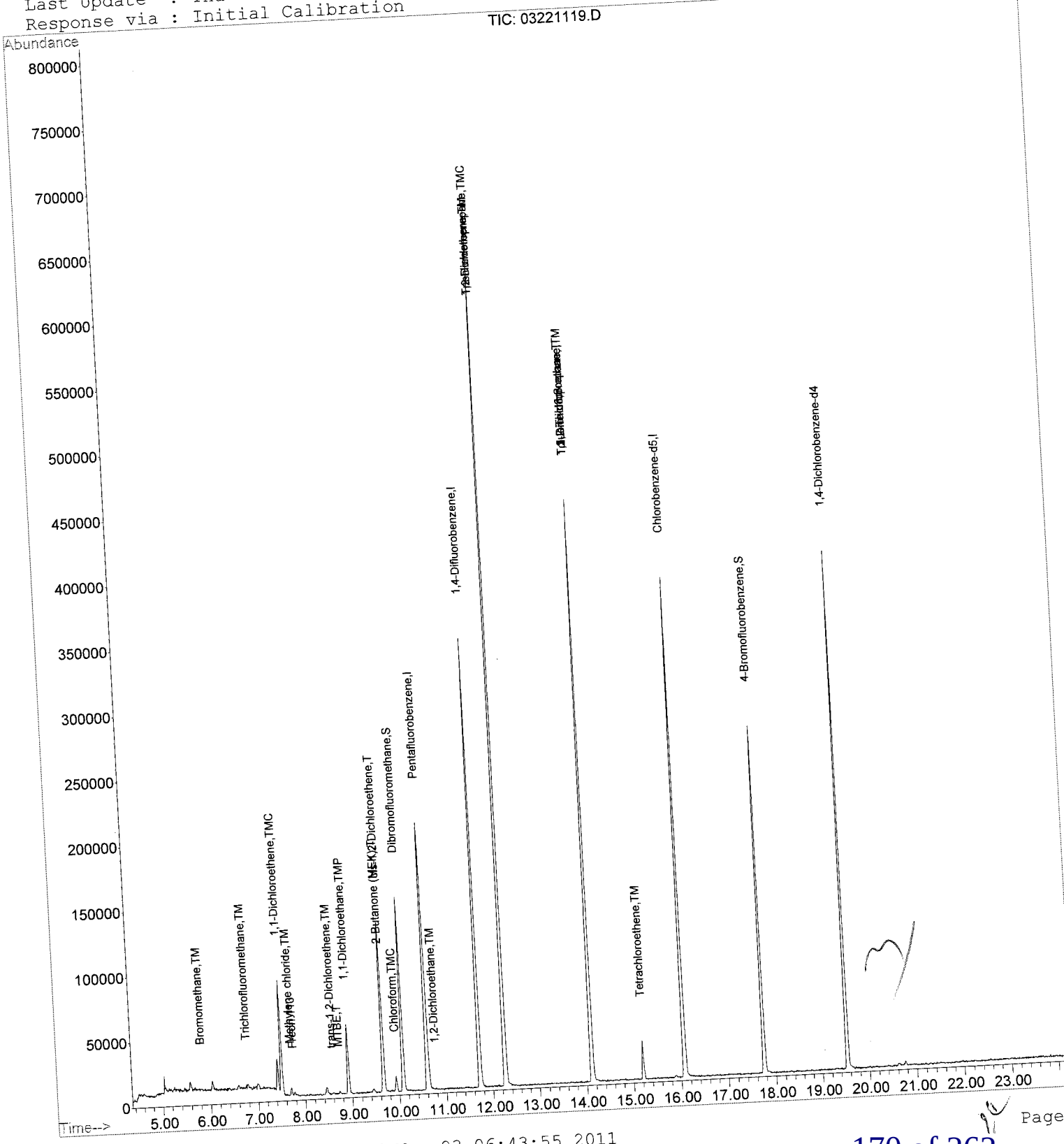
Quantitation Report

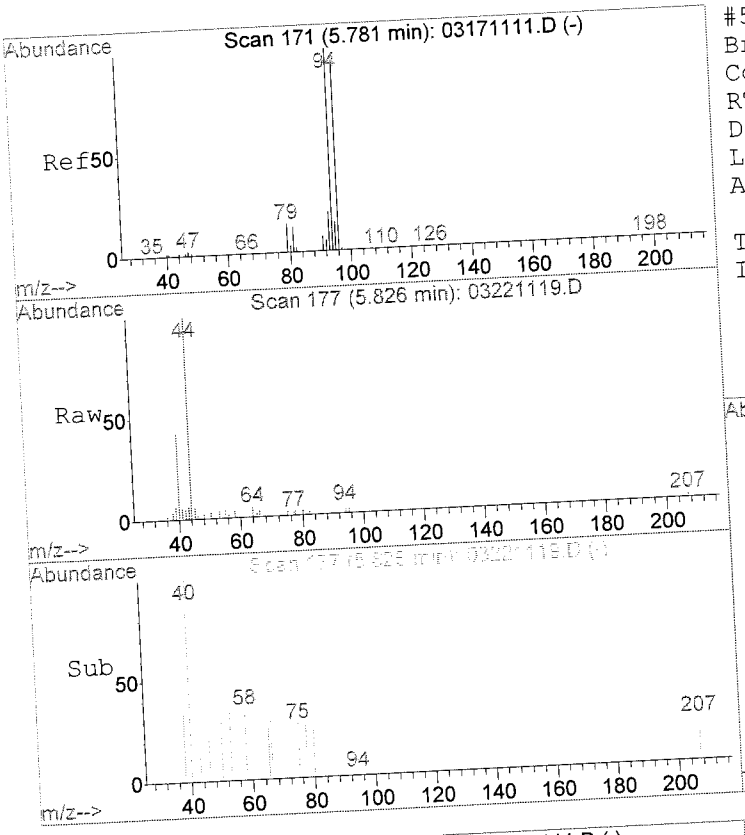
Data File : C:\HPCHEM\1\GCMS7\DATA\032211\03221119.D
Acq On : 22 Mar 2011 3:43 pm
Sample : PUC1113-01
Misc :
MS Integration Params: RTEINT2.P
Quant Time: Mar 23 6:43 2011

Vial: 4
Operator: LC
Inst : GCMS7
Multiplr: 1.00

Quant Results File: 031711.RES

Method : C:\HPCHEM\1\GCMS7\METHODS\031711.M (RTE Integrator)
Title : USEPA Method 8260B
Last Update : Thu Mar 17 14:08:36 2011
Response via : Initial Calibration

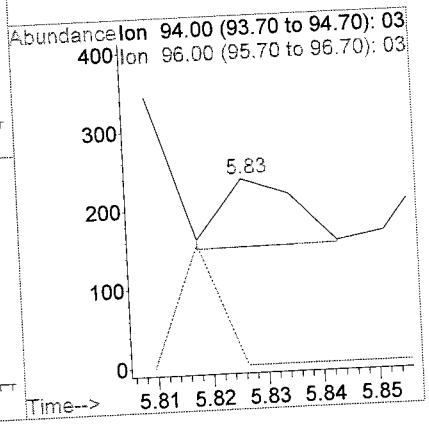


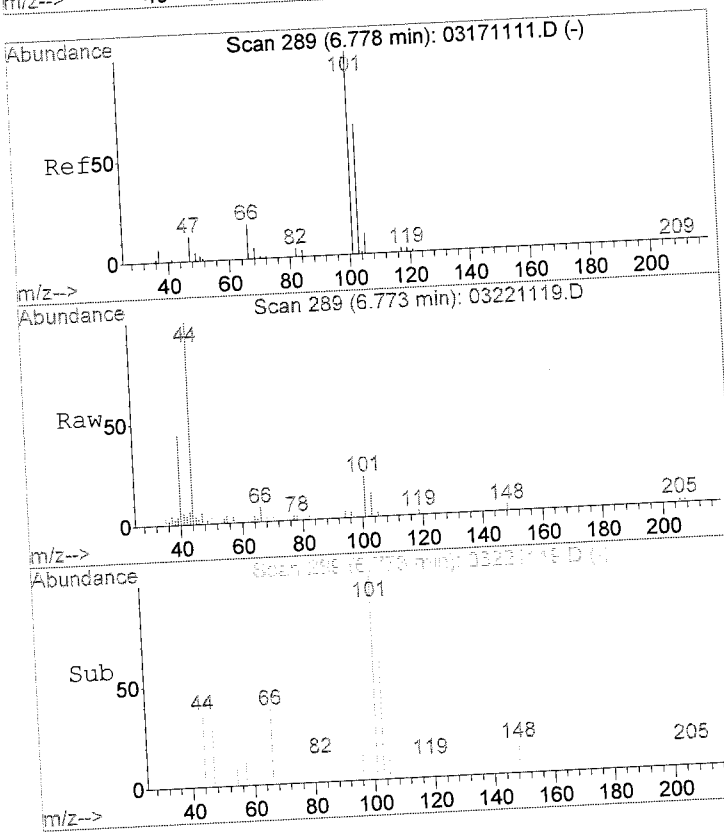


#5
Bromomethane
Concen: 0.27 ug/L
RT: 5.83 min Scan# 177
Delta R.T. 0.05 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 94 Resp: 79

Ion	Ratio	Lower	Upper
94	100		
96	100.0	74.0	111.0

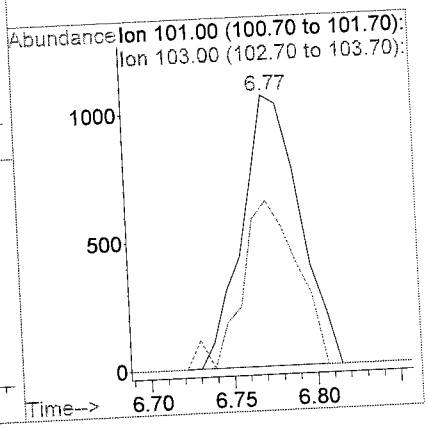


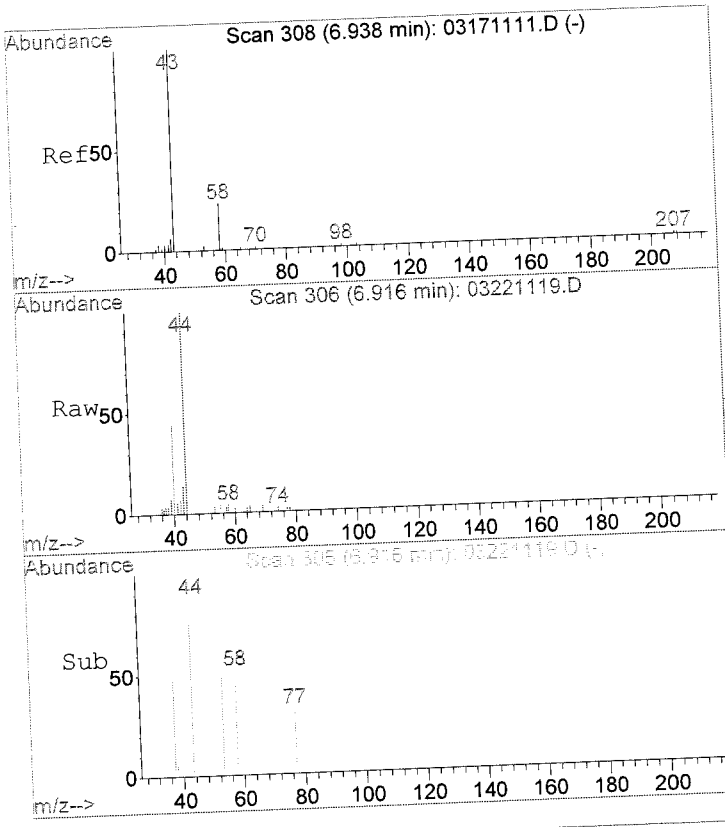


#7
Trichlorofluoromethane
Concen: 0.30 ug/L
RT: 6.77 min Scan# 289
Delta R.T. -0.01 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion:101 Resp: 2536

Ion	Ratio	Lower	Upper
101	100		
103	57.2	50.7	76.1

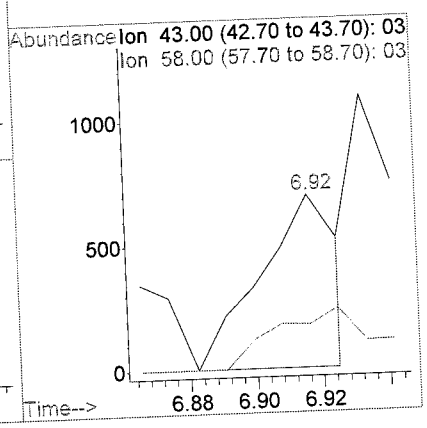


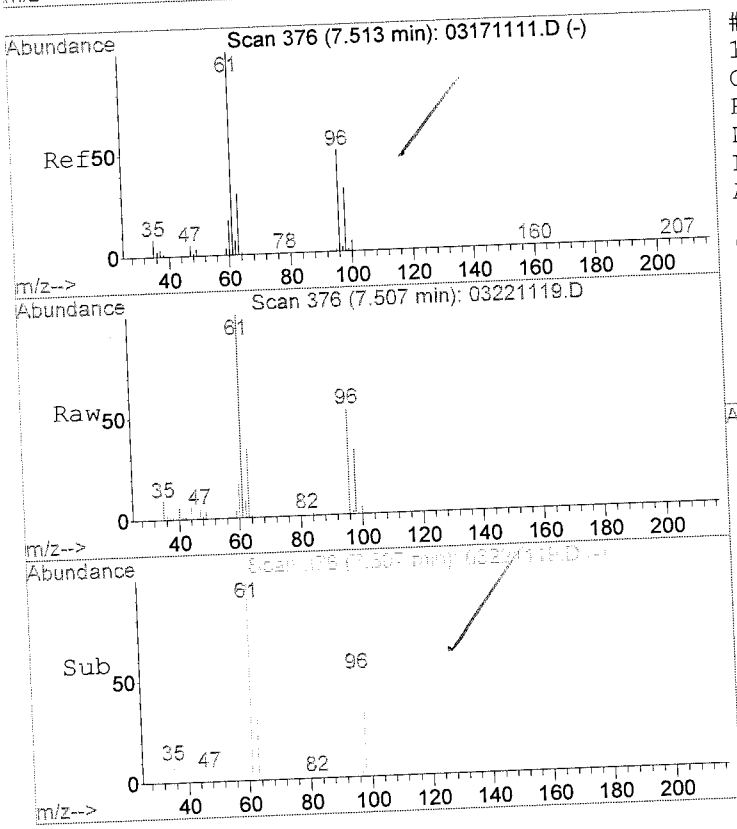


#8
Acetone
Concen: Below Cal
RT: 6.92 min Scan# 306
Delta R.T. -0.02 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 43 Resp: 1132

Ion	Ratio	Lower	Upper
43	100		
58	0.0	21.2	31.8#

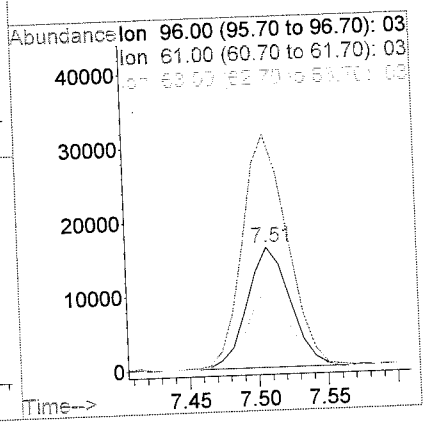


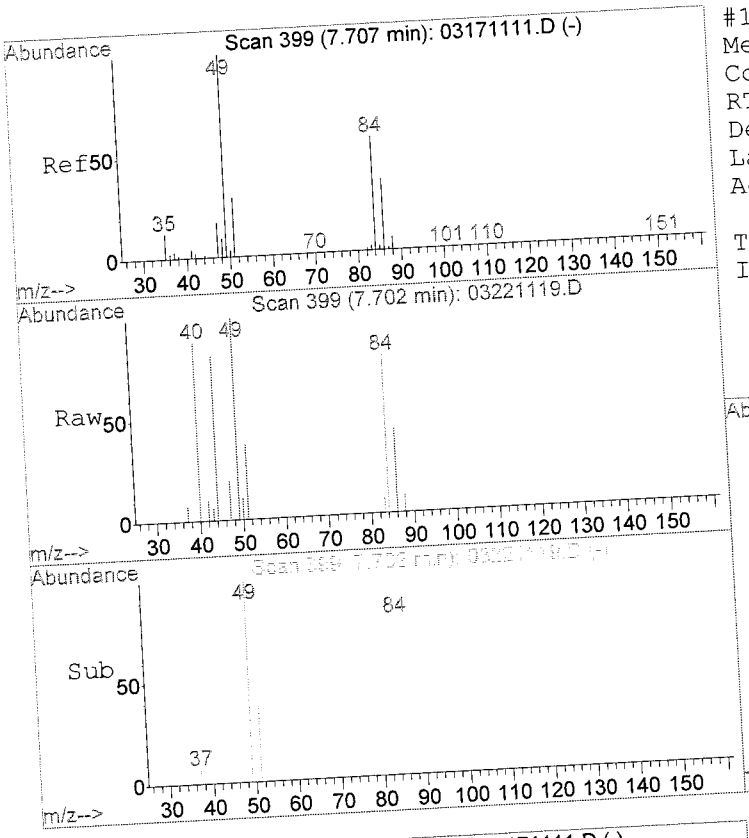


#10
1,1-Dichloroethene
Concen: 7.01 ug/L
RT: 7.51 min Scan# 376
Delta R.T. -0.00 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 96 Resp: 35013

Ion	Ratio	Lower	Upper
96	100		
61	202.2	160.7	241.1
63	64.5	50.9	76.3

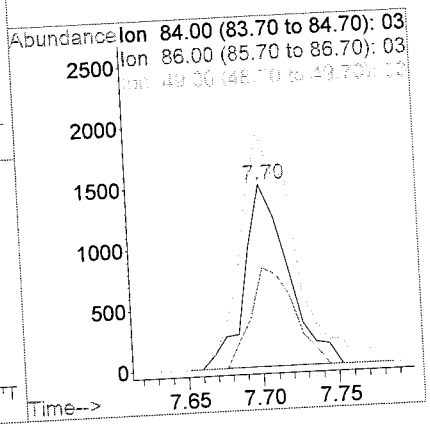


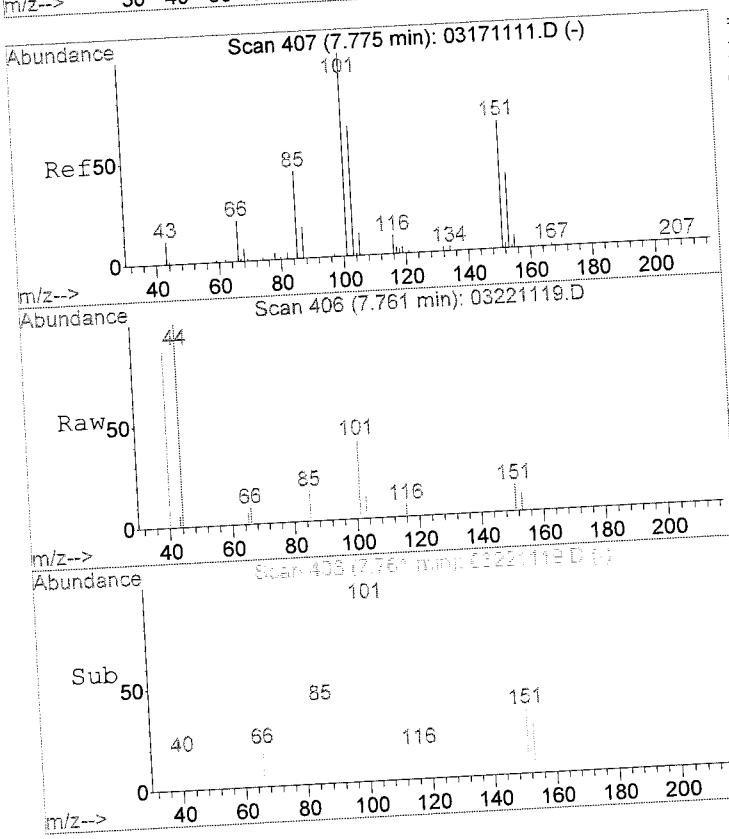


#11
Methylene chloride
Concen: 0.50 ug/L
RT: 7.70 min Scan# 399
Delta R.T. -0.01 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 84 Resp: 2967

Ion	Ratio	Lower	Upper
84	100		
86	53.8	50.6	76.0
49	156.0	140.4	210.6

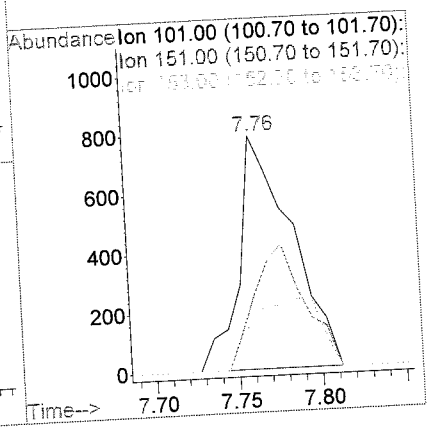


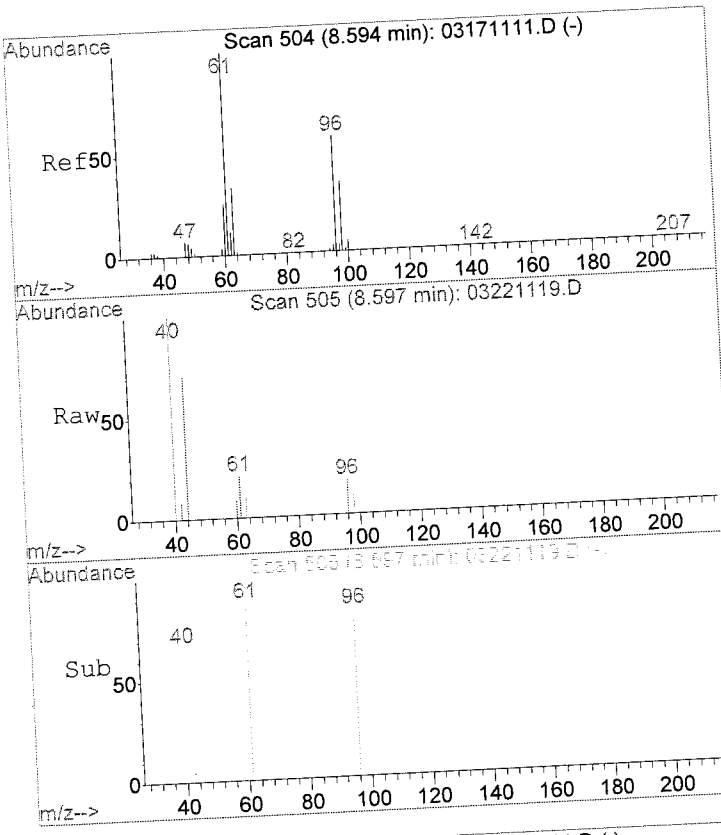


#12
Freon 113
Concen: 0.29 ug/L
RT: 7.76 min Scan# 406
Delta R.T. -0.01 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion:101 Resp: 1726

Ion	Ratio	Lower	Upper
101	100		
151	50.7	48.8	73.2
153	37.4	31.3	46.9

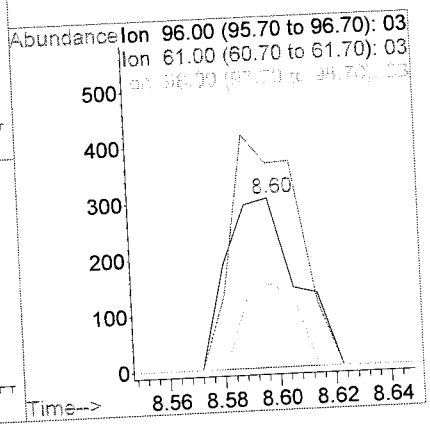


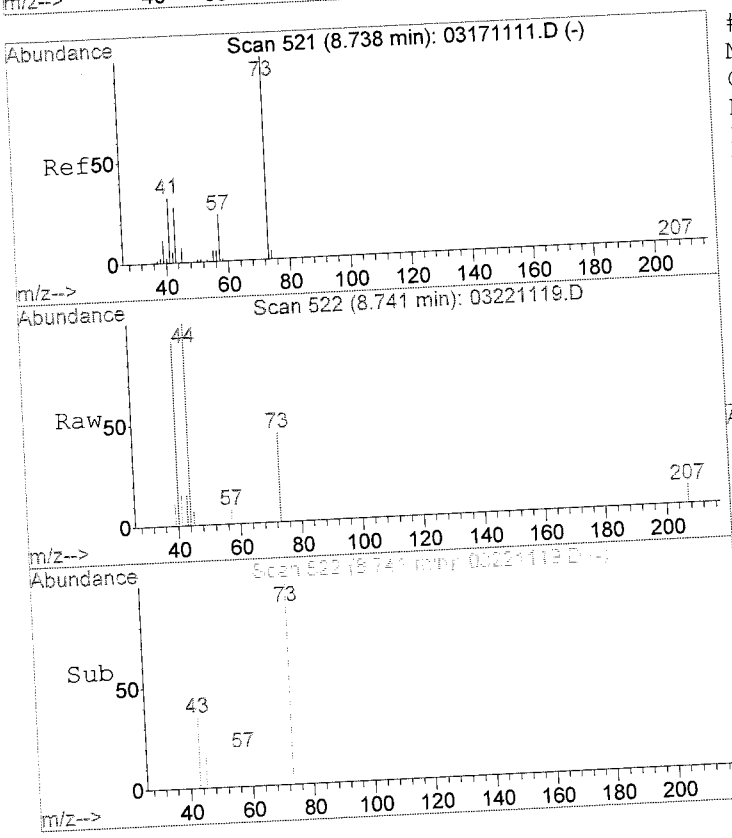


#14
trans-1,2-Dichloroethene
Concen: 0.10 ug/L
RT: 8.60 min Scan# 505
Delta R.T. 0.00 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 96 Resp: 534

Ion	Ratio	Lower	Upper
96	100		
61	120.9	141.1	211.7#
98	49.3	48.0	72.0

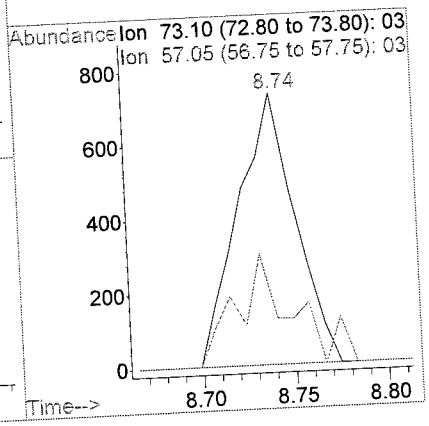


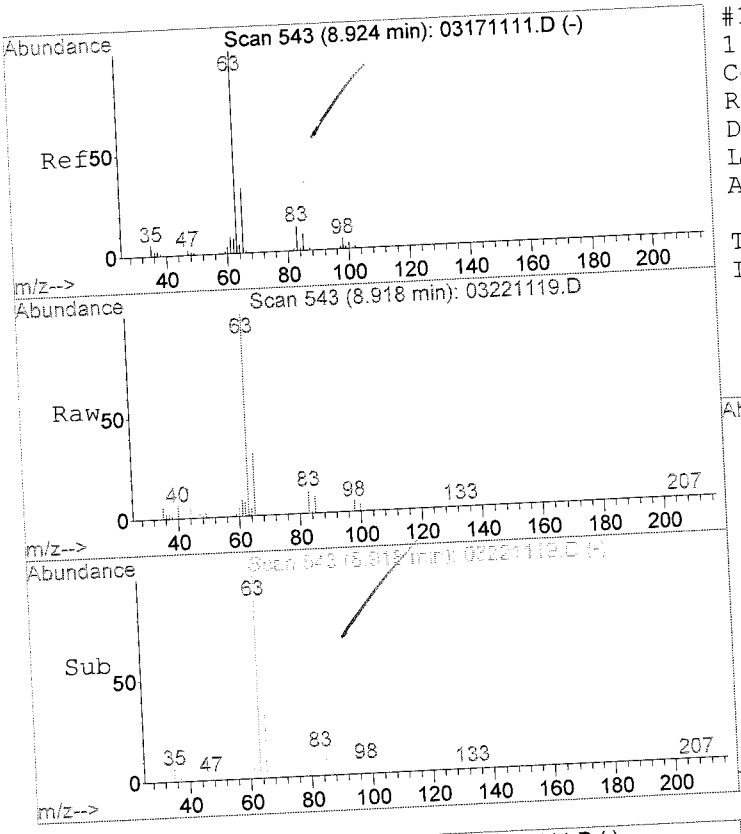


#15
MTBE
Concen: 0.17 ug/L
RT: 8.74 min Scan# 522
Delta R.T. 0.00 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 73 Resp: 1563

Ion	Ratio	Lower	Upper
73	100		
57	17.7	20.0	30.0#

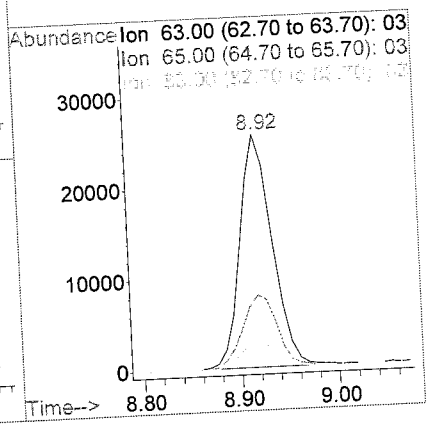


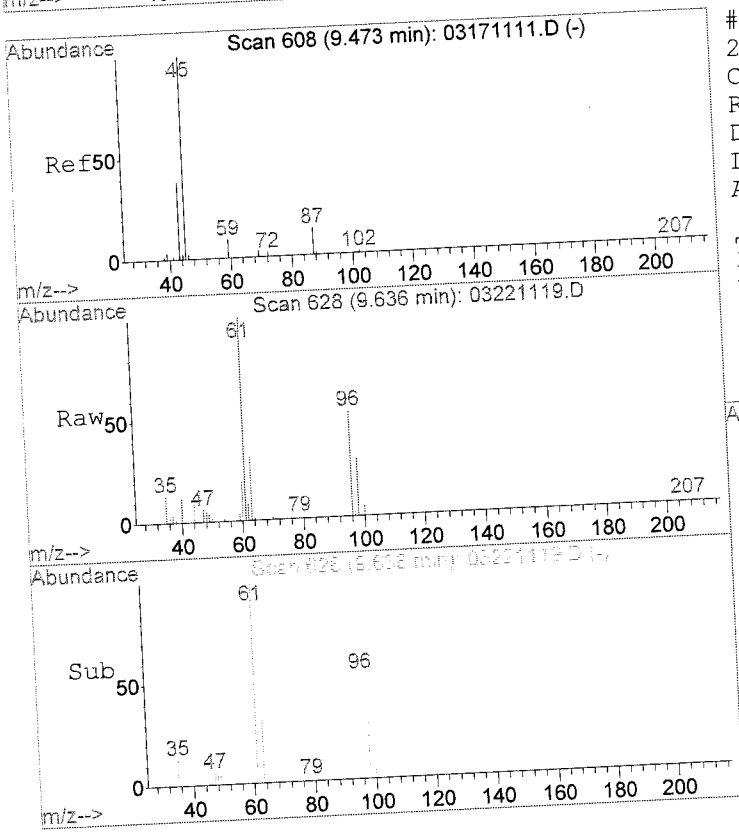


#16
1,1-Dichloroethane
Concen: 5.11 ug/L
RT: 8.92 min Scan# 543
Delta R.T. -0.01 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 63 Resp: 58907

Ion	Ratio	Lower	Upper
63	100		
65	33.2	25.2	37.8
83	11.7	9.2	13.8

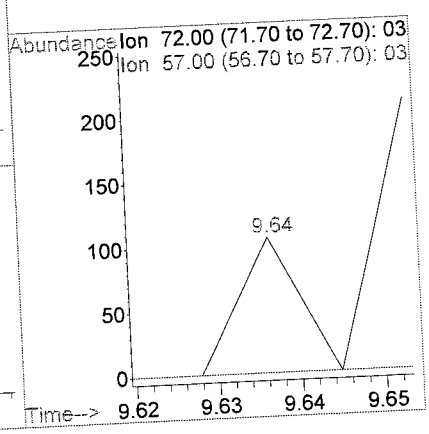


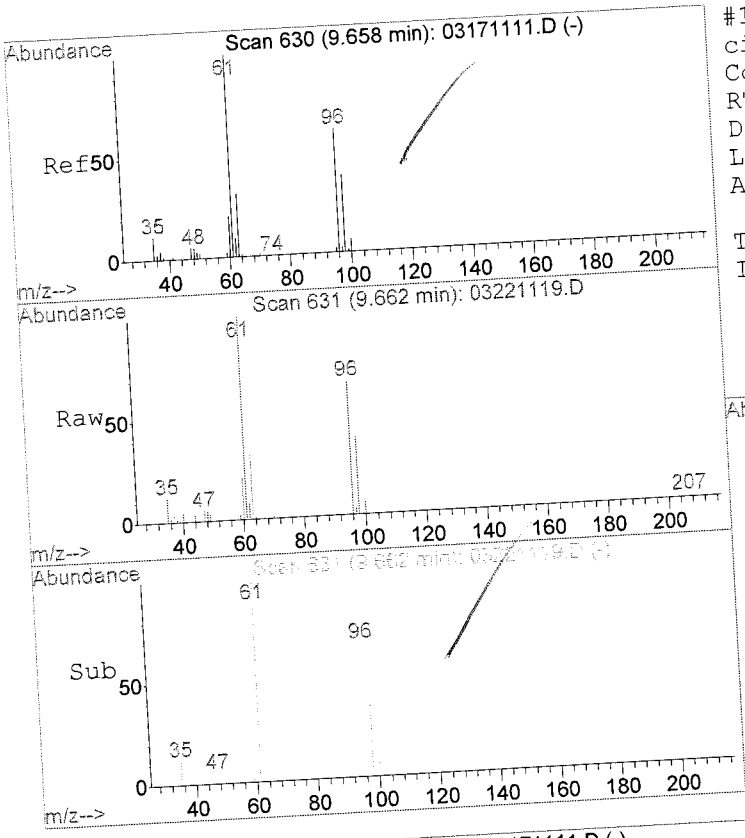


#18
2-Butanone (MEK)
Concen: 1.07 ug/L
RT: 9.64 min Scan# 628
Delta R.T. 0.16 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 72 Resp: 53

Ion	Ratio	Lower	Upper
72	100		
57	0.0	2670.6	4006.0#

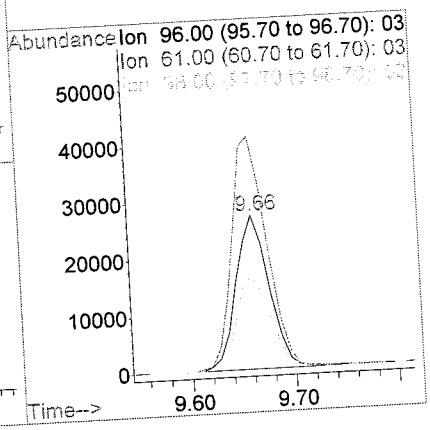


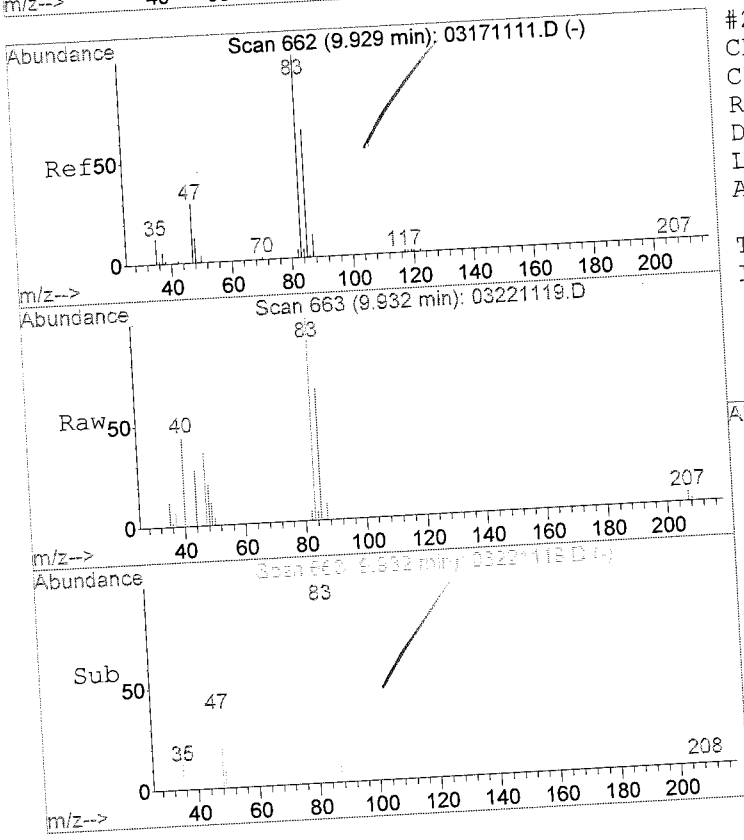


#19
cis-1,2-Dichloroethene
Concen: 10.50 ug/L
RT: 9.66 min Scan# 631
Delta R.T. 0.00 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 96 Resp: 60140

Ion	Ratio	Lower	Upper
96	100		
61	158.9	128.5	192.7
98	62.9	49.9	74.9

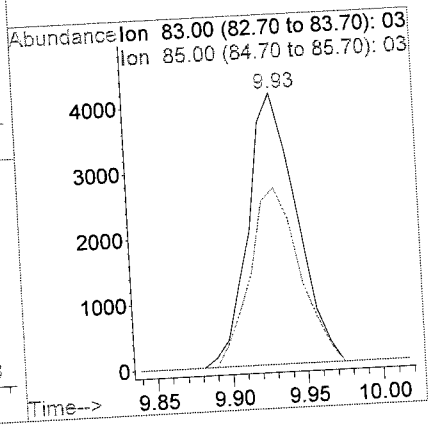


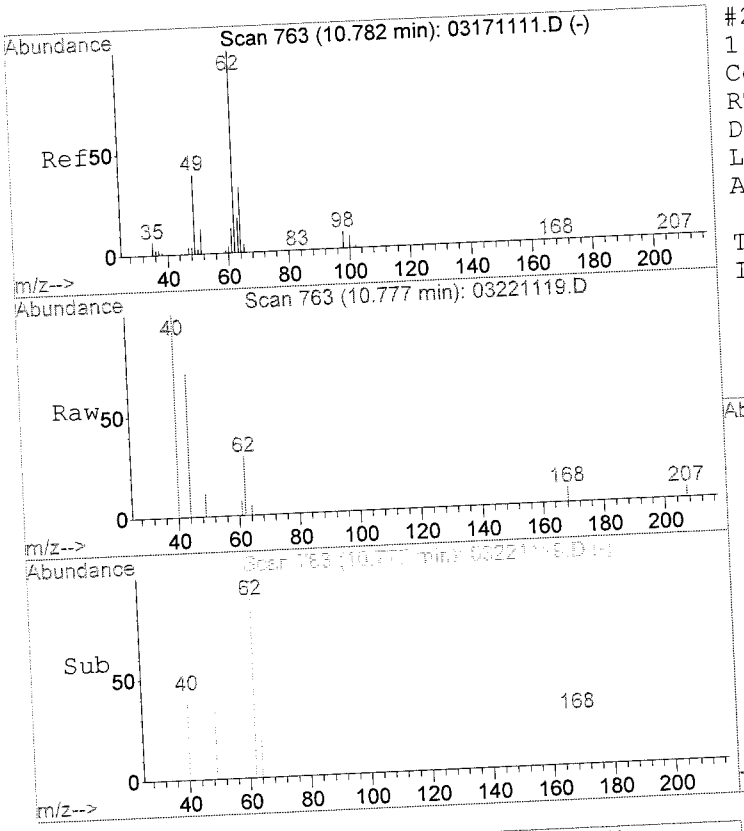


#21
Chloroform
Concen: 0.97 ug/L
RT: 9.93 min Scan# 663
Delta R.T. 0.00 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 83 Resp: 9206

Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.6	77.4

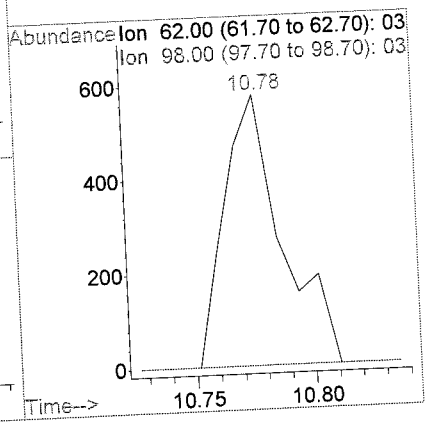


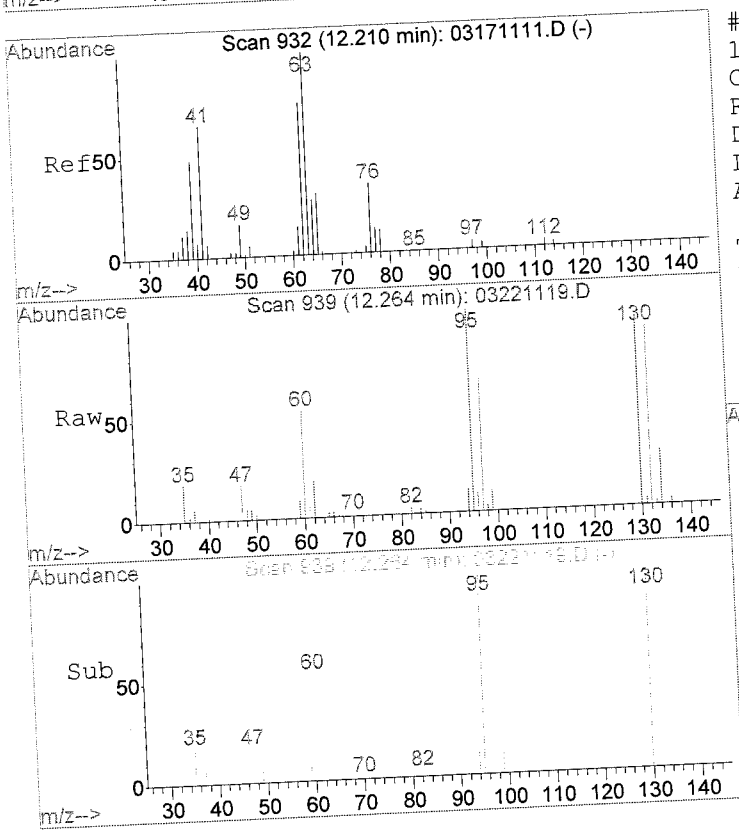


#24
1,2-Dichloroethane
Concen: 0.17 ug/L
RT: 10.78 min Scan# 763
Delta R.T. -0.01 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 62 Resp: 964

Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.0	10.6#

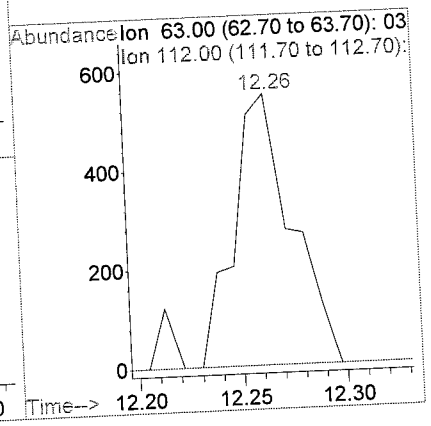


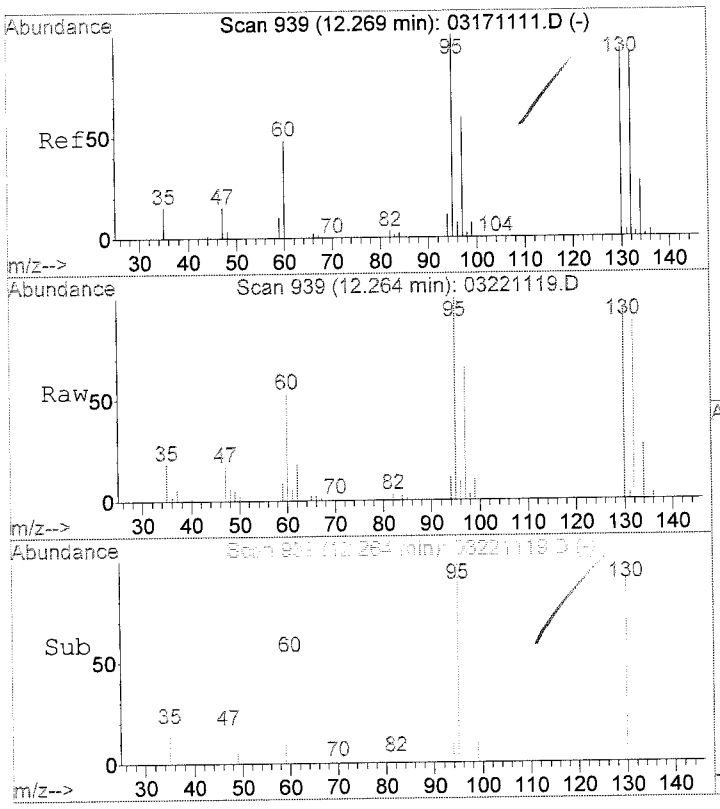


#31
1,2-Dichloropropane
Concen: 0.18 ug/L
RT: 12.26 min Scan# 939
Delta R.T. 0.05 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 63 Resp: 1067

Ion	Ratio	Lower	Upper
63	100		
112	0.0	2.7	4.1#

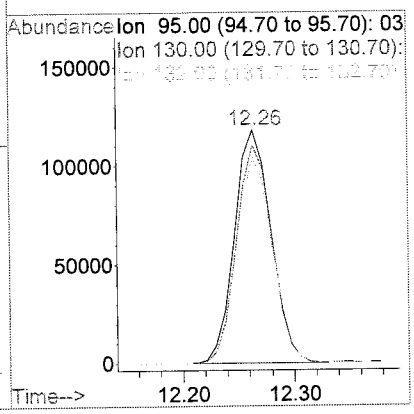


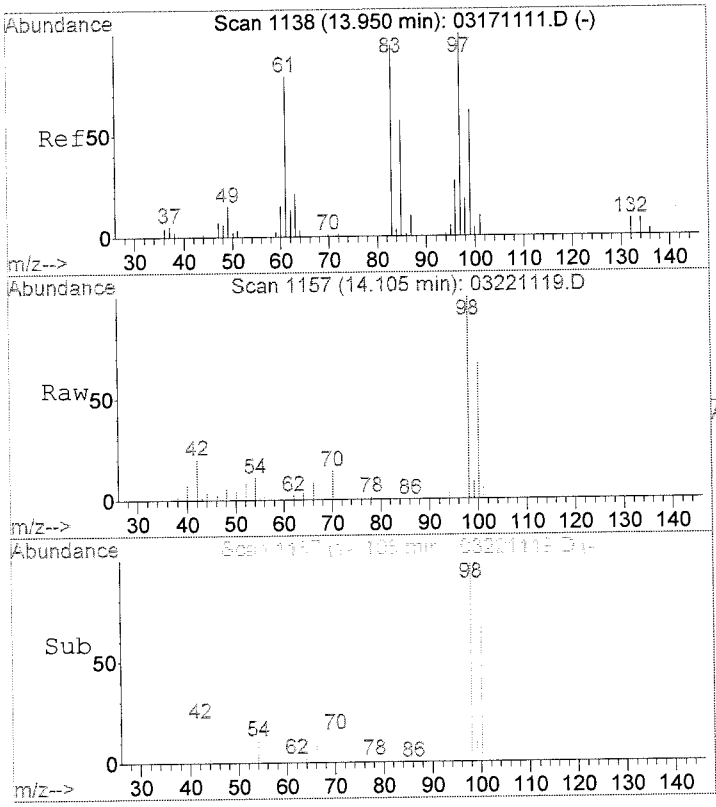


#32
Trichloroethene
Concen: 49.85 ug/L
RT: 12.26 min Scan# 939
Delta R.T. -0.01 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 95 Resp: 266454

Ion	Ratio	Lower	Upper
95	100		
130	91.8	74.2	111.4
132	86.6	70.8	106.2

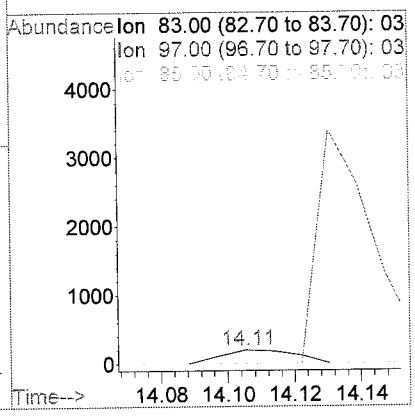


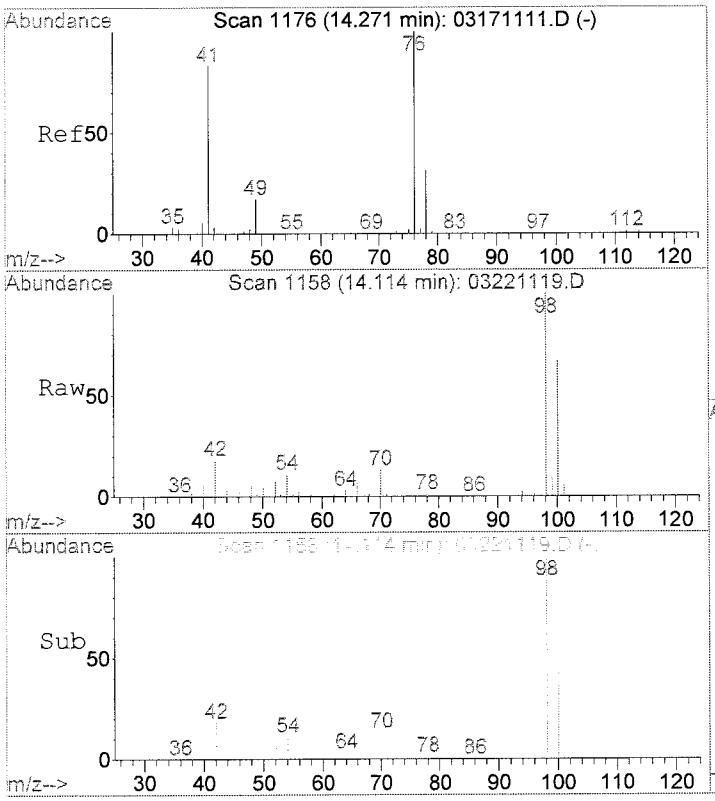


#38
1,1,2-Trichloroethane
Concen: 0.11 ug/L
RT: 14.11 min Scan# 1157
Delta R.T. 0.16 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 83 Resp: 302

Ion	Ratio	Lower	Upper
83	100		
97	1337.7	83.0	124.6#
85	0.0	51.3	76.9#



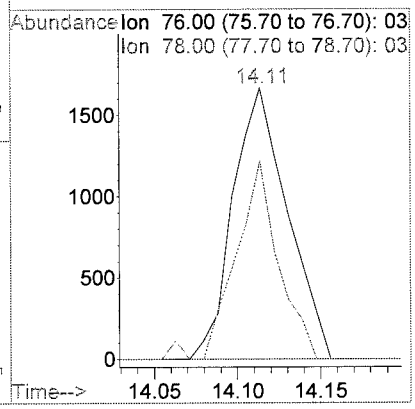


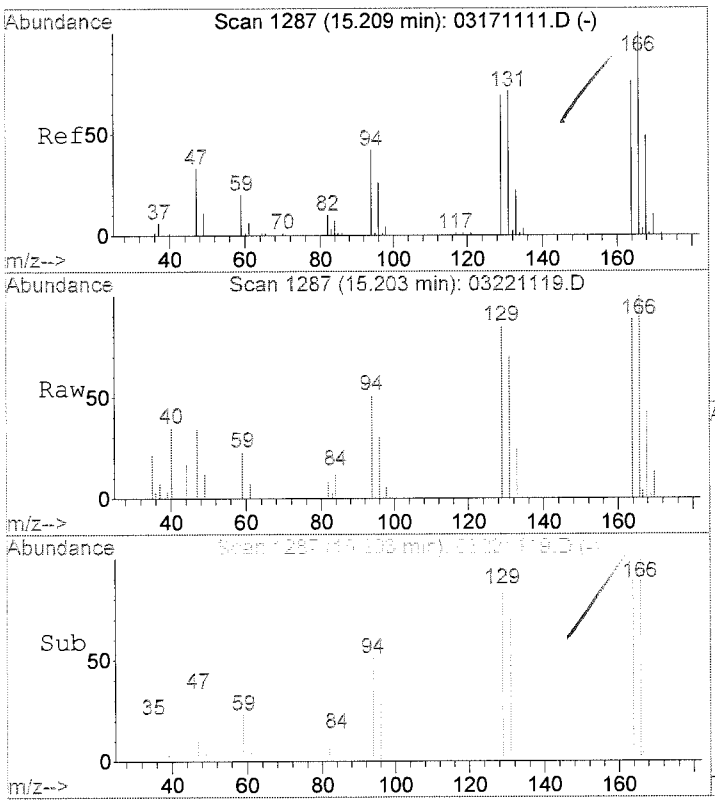
#42
1,3-Dichloropropane
Concen: 0.64 ug/L
RT: 14.11 min Scan# 1158
Delta R.T. -0.16 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion: 76 Resp: 3785

Ion	Ratio	Lower	Upper
76	100		
78	55.9	24.6	37.0#

WRT

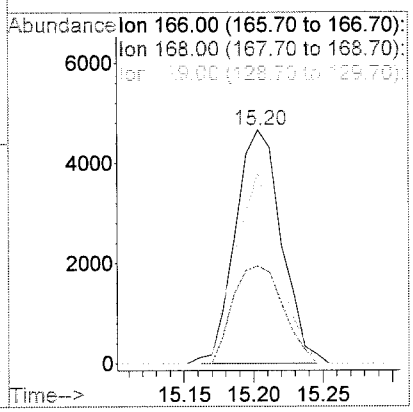




#46
Tetrachloroethene
Concen: 2.32 ug/L
RT: 15.20 min Scan# 1287
Delta R.T. -0.01 min
Lab File: 03221119.D
Acq: 22 Mar 2011 3:43 pm

Tgt Ion:166 Resp: 10795

Ion	Ratio	Lower	Upper
166	100		
168	45.3	37.9	56.9
129	76.1	59.8	89.8



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DIGESTION and/or EXTRACTION

METHOD: EPA 3520C

Work Order:

PUC1113-01

PREPARATION BENCH SHEET

11C0675

TestAmerica Phoenix

Printed: 3/21/2011 3:06:25PM

Matrix: Water **'repared using: N_GCMS Semivolatiles - N_EPA 3520(** **Surrogate used: PU01532**

Lab Number	C	Analysis	Prepared	Initial (ml)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
11C0675-BLK1		QC	03/17/11 17:00	1000	1						100				
11C0675-BS1		QC	03/17/11 17:00	1000	1		PT05700	200			100				
11C0675-BSD1		QC	03/17/11 17:00	1000	1		PT05700	200			100				
PUC0731-02RE	E	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				From 11C0526 by KA on 03/18/11
PUC1113-01	E	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1114-01	D	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1114-02	D	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1114-03	D	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1114-04	D	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1197-01	E	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1197-02	E	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1197-03	E	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1197-04	E	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				
PUC1197-05	D	N_1,4-Dioxane (SW82	03/17/11 17:00	1000	1						100				

Reagents used in Batch

Reagent	Description	Solvent

181 of 262

Spiking \ ssed By Date

W 3/21/11

Preparation Reviewed By Date

Extracts Received By Date

TestAmerica Phoenix

☐Check box if the back of the previous page is used for additional noted, comments, or calculations. The use of other scratch paper is strictly prohibited.

Extraction Date: 3-17-11

Liquid/Liquid Extraction Record

Test Code: 1,4 Dioxane

LIMS Batch No: BNA03171A

Element No.: 1160675

Analytical Method: 3520LL

Solvent/Lot No.1. DCM/J45501 2. —— Final Sol.: DCM/J45501 Na_2SO_4 Lot #: ——

Acid/Base/Lot No.1. —— 2. —— 3. ——

Surrogate: Mod 8270 Conc. 200 ppm Volume: 100 µl Std. ID#: PU01532 Exp Date 8-14-11

Spike #1: 1,4 Dioxane Conc. 100 ppm Volume: 200 µl Std. ID#: PT05700 Exp Date 10-31-13

Spike #2: —— Conc. —— Volume: —— Std. ID#: —— Exp Date ——

Spike #3: —— Conc. —— Volume: —— Std. ID#: —— Exp Date ——

Spike #4: —— Conc. —— Volume: —— Std. ID#: —— Exp Date ——

Start Time: 1700 End Time: 1640 3-18-11 Spiked By: KA Spike Witness: KP

K-D'd by: KA E-vap'd by: KA Solvent Ex'd by: NA Brought to V_f & Vialed by: JR

	Sample #	RE	Sample Frac.	pH[1]	Initial Vol/Wt (mLs/g)	Final Vol. (mLs)	K-D'd (√)	Evp'd (√)	Clean Up[2]	Color	Sample linked at:
1	MB	NA	NA	5	1L	1	√	√	NA	clear	NA
2	LCS	|	|	5	1L	1	√	√	|	clear	|
3	LCSD	|	|	5	1L	1	√	√	|	clear	|
4	~~MS~~ PVC0731-2	1	E	7	1L	1	√	√	|	clear	|
5	~~MSD~~ PVC 1113-1	NA	E	7	1L	1	√	√	|	clear	|
6	~~RLV~~ PVC1114-1	|	D	7	1L	1	√	√	|	clear	|
7	PVC 1114-2	|	D	7	1L	1	√	√	|	clear	|
8	PVC 1114-3	|	D	7	1L	1	√	√	|	clear	|
9	PVC 1114-4	|	D	7	1L	1	√	√	|	clear	|
10	PVC 1197-1	|	E	7	1L	1	√	√	|	clear	|
11	PVC1197-2	|	E	7	1L	1	√	√	|	clear	|
12	PVC-1197-3	|	E	7	1L	1	√	√	|	clear	|
13	PVC-1197-4	|	E	7	1L	1	√	√	|	clear	|
14	PVC1197-5	|	D	7	1L	1	√	√	|	clear	|
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

KA 3-18-11

[1]Sample pH / Adjusted pH; [2]AW is Acid Wash, DW is DCM wash.

a = Acid Fraction, b = base/neutral fraction

X Insufficient Sample for MS/MSD ___ MS/MSD Designated ___ MS/MSD Chosen ___ Sample Container(s) Shaken & Rinsed with Solvent

Sample Extracts located in: Box# _____ Row(s) & Numbers _____ BNA Freezer X SVOA's Fridge ____

Comments: _____

Reviewer Signature: _____ Date: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CALIBRATION DATA

METHOD

MODIFIED EPA 8270C

DATE: 01/05/11

Work Order: PUC1113-01

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270 C	Instrument#: C CMS 14
Analyst: C-Lauri	Analysis Date: 01-05-11	

Method name saved in the file: DIMPANE\010511.M

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, (9) 10, 11, 12
2. Did the calibration curve pass the method criteria? (Y) N
3. Were any points of the curve removed or replaced? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   Why?
4. Were any individual analyte points removed? Y (N)
   If yes, what points were removed or replaced: lowest middle highest
   List of the analytes:
   Why?
5. Circle the calibration model used (you may circle one or more)
   - ☑ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: (Y) N

Review Signatures:	Analyst: C Lauri	Date: 1-5-11
	Reviewer: Joseph Brewton	Date: 01/05/11

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THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-QAD-022, Rev. 1
Effective Date: 09/30/2010
Page No.: 1 of 1

Attachment 1

INITIAL CALIBRATION CURVE CHECKLIST

Department: Semivoa	Method: Mod. 8270C	Instrument #: GCMS14
Analyst: C. Lauric	Analysis Date: ~~2/25/11~~ 01/05/11	3/01/11

Method name saved in the file: DIPANE \ 010511 D.M

1. How many calibration points were used? 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
2. Did the calibration curve pass the method criteria? Y N
3. Were any points of the curve removed or replaced? Y N

   If yes, what points were removed or replaced: lowest middle highest

   Why?

4. Were any individual analyte points removed? Y N

   If yes, what points were removed or replaced: lowest middle highest

   List of the analytes:

   Why?

   update due to RT shift.

5. Circle the calibration model used (you may circle one or more)
   - ☐ Average Response Factor
   - ☐ Linear Regression / not forced through zero / simple linear
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
   - ☐ Linear Regression / forced through zero
   - ☐ 2nd Order Regression (Quadratic) / not forced through zero
     - ☐ Equal weighting
     - ☐ Inverse of concentration
     - ☐ Inverse of square of concentration
6. Did the calibration meet the Good Documentation Practices SOP requirements: Y N

Review Signatures:	Analyst: C Lauric	Date: 3/01/2011
	Reviewer: Jessica Breuhell	Date: 03/01/11

EPA 8270C Modified 1,4-Dioxane by Isotope Dilution, Extraction & GC/MS Analysis
Data Review Checklist (Example)

ANALYSIS DATE: 01-05-11

	MEETS CRITERIA?
1. DFTPP (50ng) VERIFY MEETS CRITERIA EVERY 12 HOURS (DIOXANE)	Y / N
2. INITIAL CALIBRATION CURVE (MIN. 5 LEVELS) DATE: 010511-M	Y / N
- SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05	Y / N
- CCC 1,4-DICHLOROBENZENE < 30% RSD, 1,4-DIOXANE ≤ 20% RSD	Y / N
- ALL OTHER COMPOUNDS < 15% RSD OR USE CURVE (r^2 > 0.990)	Y / N
TAILING FACTOR B/N BENZIDENE: 3.0	Y / N
3. INITIAL CALIBRATION VERIFICATION (SEC. SOURCE) ANALYZED	Y / N
4. CONTINUING CALIBRATION CHECK (EVERY 12 HOURS)	Y / N
- SPCC N-NITROSODI-N-PROPYLAMINE MUST MEET MIN. RF 0.05	Y / N
- CCC 1,4-DICHLOROBENZENE < 20% D, 1,4-DIOXANE ≤ 20%	Y / N
- IS 1,4-DCB-d4 AREA –50% TO –100% TO MID-POINT IN I. CAL	Y / N
- IS 1,4-DCB-d4 RT ± 30 SEC. TO MID-POINT IN INITIAL CALIB.	Y / N
- TAILING FACTOR B/N BENZIDENE. 3.0	Y / N
5. METHOD BLANK	Y / N
- ANALYZE ONE PER BATCH (< 20 SAMPLES)	Y / N
- 1,4-DIOXANE MUST BE < REPORTING LIMIT	
6. LCS/LCSD WITHIN LIMITS	Y / N
- MUST BE ANALYZED PER 20 SAMPLES/BATCH	Y / N
- % RECOVERY WITHIN 80 – 120% LIMITS	Y / N
- RPD WITHIN LIMITS (≤ 25 RPD)	

Continued on next page

SOP Number/Revision: 06-020.03

TITLE: EPA 8270C Modified 1,4-Dioxane By Isotope Dilution, Extraction and GC-MS Analysis

Date Issued: March 2007

Expiration Date: March 2008

NOT TO BE PHOTOCOPIED

7. MS/MSD
   - MUST BE ANALYZED PER 20 SAMPLES/BATCH Y / N
   - % RECOVERY WITHIN 70 – 130% LIMITS Y / N
   - RPD WITHIN LIMITS (≤ 25 RPD) Y / N

8. SAMPLES
   - EXTRACTED WITHIN 7 DAYS OF SAMPLING Y / N
   - ANALYZED WITHIN 40 DAYS OF EXTRACTION Y / N
   - IS 1,4-DCB-d4 RT ÷ 30 SECs AND IS AREA –50% TO +100% TO CONT. CAL Y / N
   - SURROGATE RECOVERIES WITHIN LIMITS Y / N

9. TUNE INJECTED WITHIN 12hr TIME PERIOD Y / N

COMMENTS

ANALYST: [signature] DATE: 1-5-11

REVIEWER: DATE:

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.
9 =01051114.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	ISTD										
2)	C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3)	I	1,4-Dichlorobenzen...	ISTD										
4)	C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5)	P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6)	S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

G 1.5-11

G 010511

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

update RT shift on 2-28-11

Calibration Files
1 =01051106.D 2 =01051107.D 3 =01051108.D 4 =01051109.D 5 =01051110.D 6 =01051111.D 7 =01051112.D 8 =01051113.D
9 =01051114.D

		Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dioxane-d8	ISTD										
2)	C	1,4-Dioxane	0.973	1.050	1.052	1.067	1.050	1.011	0.998	1.018	0.940	1.018	4.12
3)	I	1,4-Dichlorobenzen...	ISTD										
4)	C*	1,4-Dichlorobe...	1.651	1.666	1.745	1.716	1.666	1.657	1.608	1.594	1.496	1.644	4.43
5)	P	N-Nitrosodi-n-...	1.075	1.120	1.247	1.256	1.255	1.224	1.213	1.195	1.171	1.195	5.28
6)	S	Nitrobenzene-d5	1.669	1.711	1.924	1.883	1.869	1.811	1.804	1.761	1.697	1.792	4.99

(#) = Out of Range

3/01/11

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/11
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Jan 05 13:29 2011	Jan 05 12:20 2011	

1.5-11

010511.M Wed Jan 05 13:33:03 2011

Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051106.D
2	2	1	20	D:\msdchem\1\GCMS14\DATA\010511\01051107.D
3	3	2	20	D:\msdchem\1\GCMS14\DATA\010511\01051108.D
4	4	4	20	D:\msdchem\1\GCMS14\DATA\010511\01051109.D
5	5	10	20	D:\msdchem\1\GCMS14\DATA\010511\01051110.D
6	6	20	20	D:\msdchem\1\GCMS14\DATA\010511\01051111.D
7	7	30	20	D:\msdchem\1\GCMS14\DATA\010511\01051112.D
8	8	40	20	D:\msdchem\1\GCMS14\DATA\010511\01051113.D
9	9	100	20	D:\msdchem\1\GCMS14\DATA\010511\01051114.D
10	CC	10	20	R:\022511\02251108.D ✓ used to update due to RT shift

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 05 13:28 2011	Jan 05 11:25 2011	1/05/2011
2	2	Jan 05 13:28 2011	Jan 05 11:44 2011	
3	3	Jan 05 13:28 2011	Jan 05 11:54 2011	
4	4	Jan 05 13:28 2011	Jan 05 12:19 2011	
5	5	Jan 05 13:28 2011	Jan 05 12:20 2011	
6	6	Jan 05 13:28 2011	Jan 05 12:43 2011	
7	7	Jan 05 13:28 2011	Jan 05 12:57 2011	
8	8	Jan 05 13:28 2011	Jan 05 13:09 2011	
9	9	Jan 05 13:28 2011	Jan 05 13:26 2011	
10	CC	Feb 28 10:27 2011	Feb 28 10:27 2011	25 Feb 2011 6:23 pm ✓

CA 2/28/11

010511D.M Mon Feb 28 10:59:27 2011

3/2011

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Wed Jan 05 13:29:49 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dioxane-d8	96	2.975	1.000	A	1	A	B
2	C	1,4-Dioxane	88	3.028	1.018	A	2	A	B
3	I	1,4-Dichlorobenzene-d4	152	6.092	1.000	A	0	A	B
4	C*	1,4-Dichlorobenzene	146	6.104	1.002	A	1	A	B
5	P	N-Nitrosodi-n-propylamine	70	6.422	1.054	A	1	A	B
6	S	Nitrobenzene-d5	82	6.557	1.076	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

)10511.M Wed Jan 05 13:33:14 2011

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.m

	CCV Response	ICAL Response	0.5X	2X	PASS/FAIL
Internal Standard 1,4-Dichlorobenzene-d4	243008	243008	121504	486016	PASS

	RT	RT	-0.5min	+0.5min	
Internal Standard 1,4-Dichlorobenzene-d4	6.09	6.09	5.59	6.59	PASS

update
a-1-5-11

Sample Name 10ug/mL PU00063
Data File Name 01051110.D
Data File Path D:\msdchem\1\GCMS14\DATA\010511\
Operator CL
Date Acquired 1/5/2011 12:12
Misc Info 1,4-DIOXANE
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\

	NAME	RT	CCV RRT Value (Target/IS)	mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.975					
	1,4-Dioxane	3.028	1.0178	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	6.092					
	1,4-Dichlorobenzene	6.104	1.0019	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.422	1.0541	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.557	1.0763	1.0763	1.0163	1.1363	<-PASS

Update only.
Added in Revised
Review checklist for
1,4-Dioxane

a 3-09-11.

3/09/11

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥010511.S
Comment:
Operator: CL
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥010511¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	01051101	DB5MS14	DCM
2)	Sample	2	01051102	DB5MS14	DCM
3)	Sample	3	01051103	DB5MS14	25ng tune pu00017
4)	Sample	4	01051104	DB5MS14	✓25ng TUNE PU00017
5)	Sample	5	01051105	DIOXANE	BLANK
6)	Sample	6	01051106	DIOXANE	0.5ug/mL PU00059
7)	Sample	7	01051107	DIOXANE	1.0ug/mL PU00060
8)	Sample	8	01051108	DIOXANE	2.0ug/mL PU00061
9)	Sample	9	01051109	DIOXANE	4.0ug/mL PU00062
10)	Sample	10	01051110	DIOXANE	10ug/mL PU00063
11)	Sample	11	01051111	DIOXANE	20ug/mL PU00064
12)	Sample	12	01051112	DIOXANE	30ug/mL PU00065
13)	Sample	13	01051113	DIOXANE	40ug/mL PU00066
14)	Sample	14	01051114	DIOXANE	100ug/mL PU0067
15)	Sample	15	01051115	DIOXANE	QCS10ug/mL PU00068
16)	Sample	1	01051116	DIOXANE	~~10ug/mL PU00063ccv~~ PCM
17)	Sample	2	01051117	DIOXANE	10ug/mL PU00063ccv
18)	Sample	3	01051118	DIOXANE	11A0067-BLK1
19)	Sample	4	01051119	DIOXANE	PTL1256-03RE1
20)	Sample	5	01051120	DIOXANE	PTL1256-04RE1
21)	Sample	6	01051121	DIOXANE	PTL1256-06RE1
22)	Sample	7	01051122	DIOXANE	PTL1256-07RE1
23)	Sample	8	01051123	DIOXANE	PTL1262-01RE1
24)	Sample	9	01051124	DIOXANE	PTL1262-02RE1
25)	Sample	10	01051125	DIOXANE	PTL1256-10
26)	Sample	11	01051126	DIOXANE	PTL1262-01
27)	Sample	12	01051127	DIOXANE	PTL1262-02

a 1-5-11

a 1-5-11

a 1-6-11

Sequence Reviewed By: a Date: 1-6-11

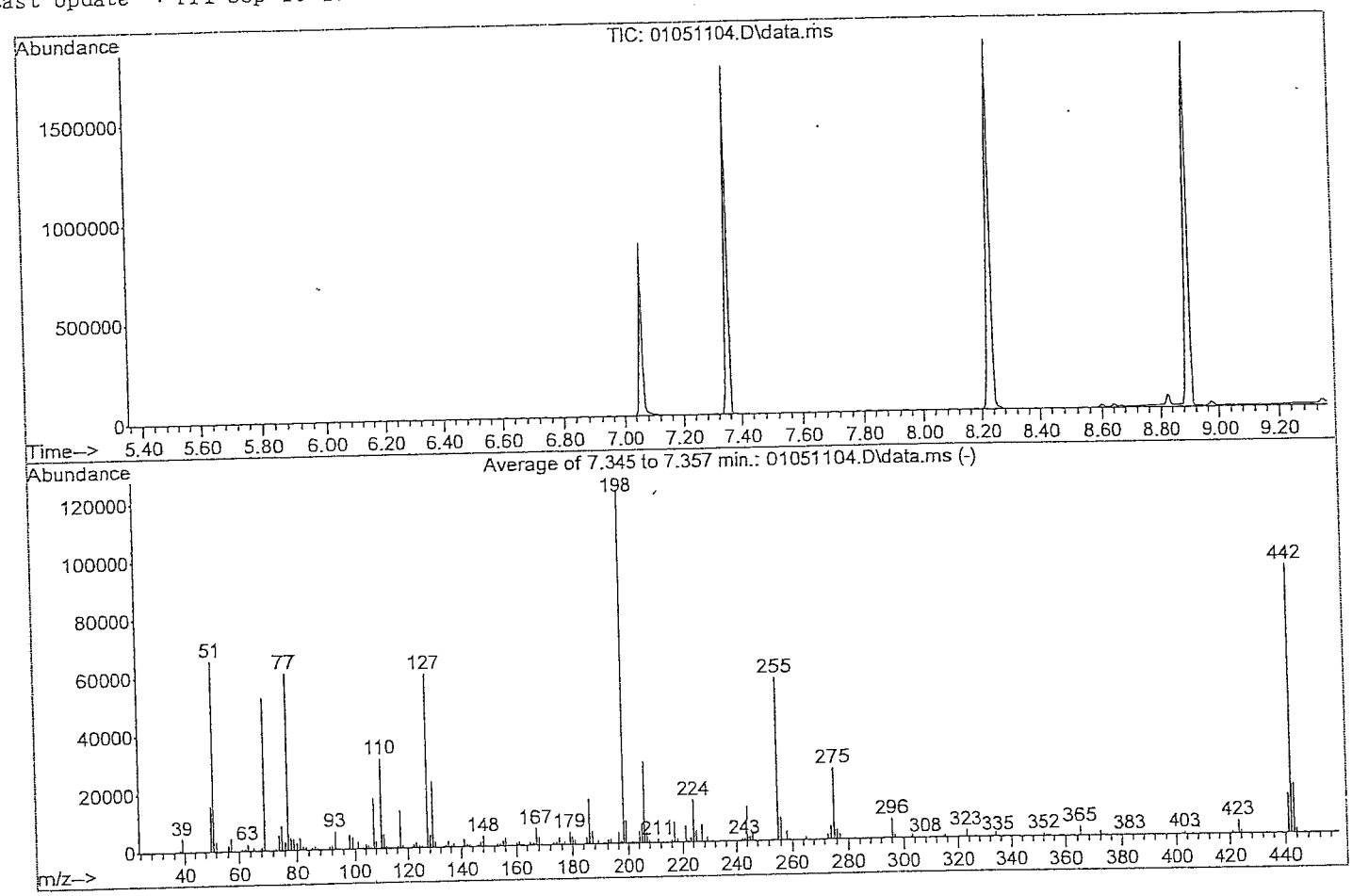
Date Analyzed: 1-6-11 Analyst: a Date Run: 1-5-11

DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
Last Update : Fri Sep 10 17:23:33 2010



AutoFind: Scans 963, 964, 965; Background Corrected with Scan 958

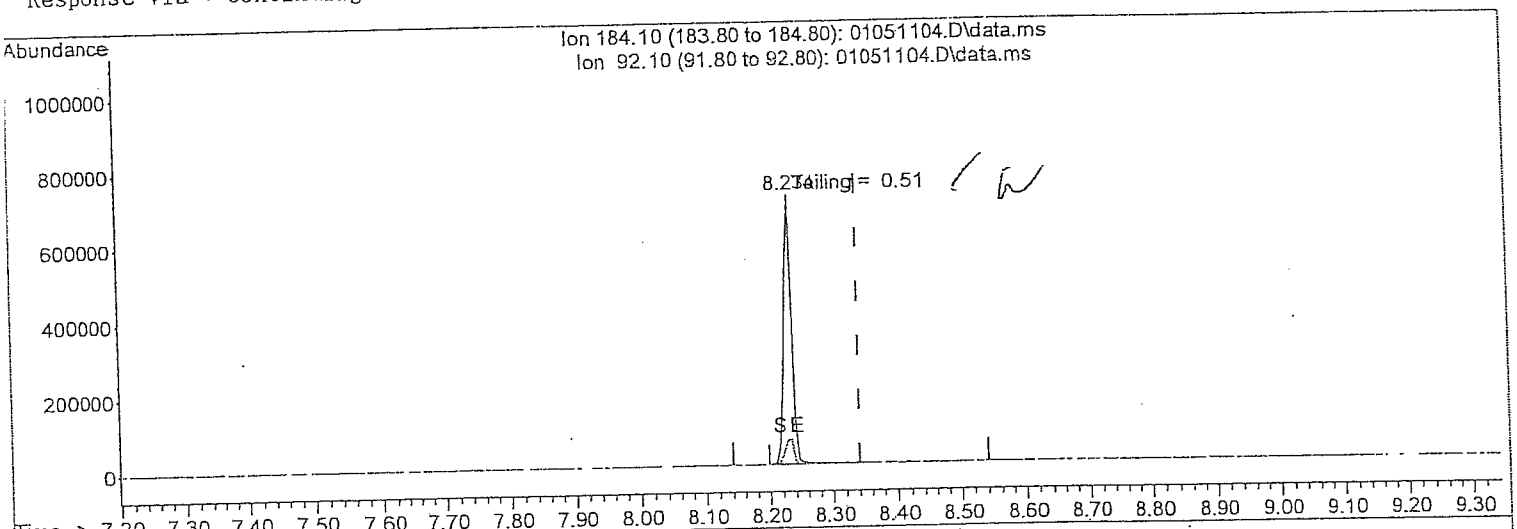
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.0	65567	PASS
68	69	0.00	2	1.8	948	PASS
69	198	0.00	100	43.2	52531	PASS
70	69	0.00	2	0.4	221	PASS
127	198	40	60	49.2	59789	PASS
197	198	0.00	1	0.7	889	PASS
198	198	100	100	100.0	121514	PASS
199	198	5	9	6.5	7948	PASS
275	198	10	30	20.3	24613	PASS
365	198	1	100	2.6	3102	PASS
441	443	0.01	100	78.5	13579	PASS
442	198	40	100	76.1	92525	PASS
443	442	17	23	18.7	17299	PASS

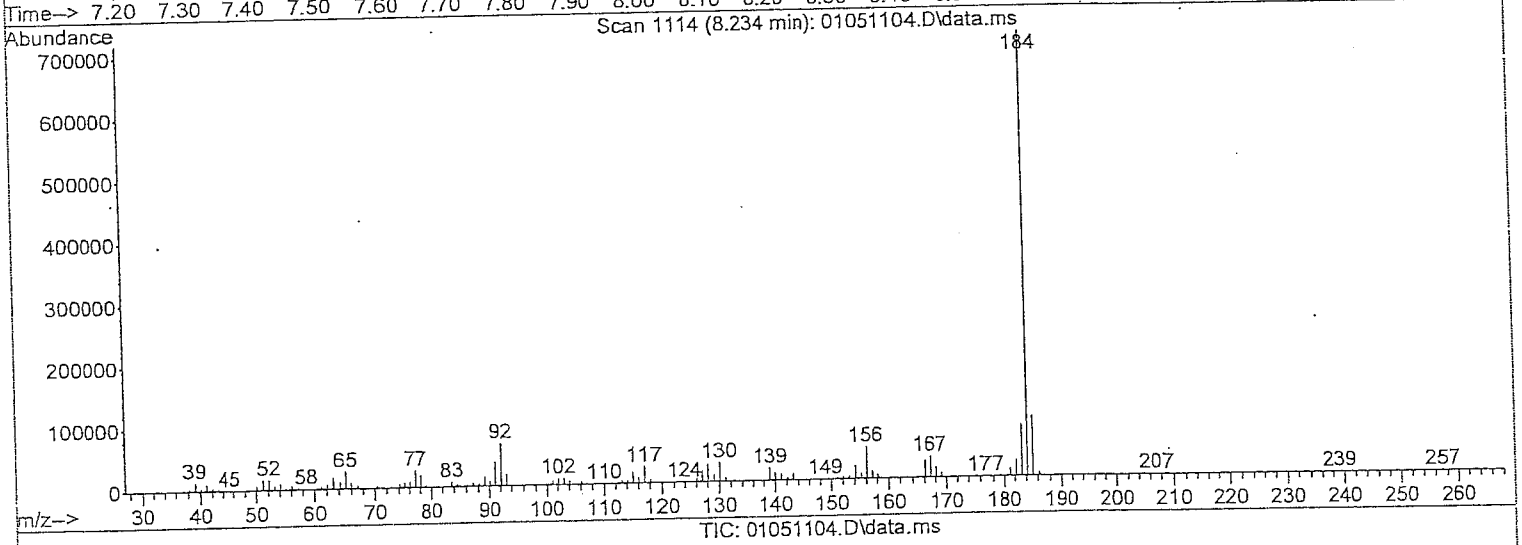
1.5.11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051104.D
Acq On : 5 Jan 2011 10:19 am
Operator : CL
Sample : 25ng TUNE PU00017
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 05 11:46:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP, TAILING EVA. :ACID<5.0, BN<3.0, DEG. <=20%
QLast Update : Fri Sep 10 17:23:33 2010
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D





(2) Benzidine

8.234min (-0.106) 7.68

response 603050

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	300515	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	6.092	152	231052	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	0.000	82	0	0.00 ug/mL	
					Qvalue
Target Compounds					
2) 1,4-Dioxane	2.999	88	49	0.00 ug/mL#	1
4) 1,4-Dichlorobenzene	6.092	146	306	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

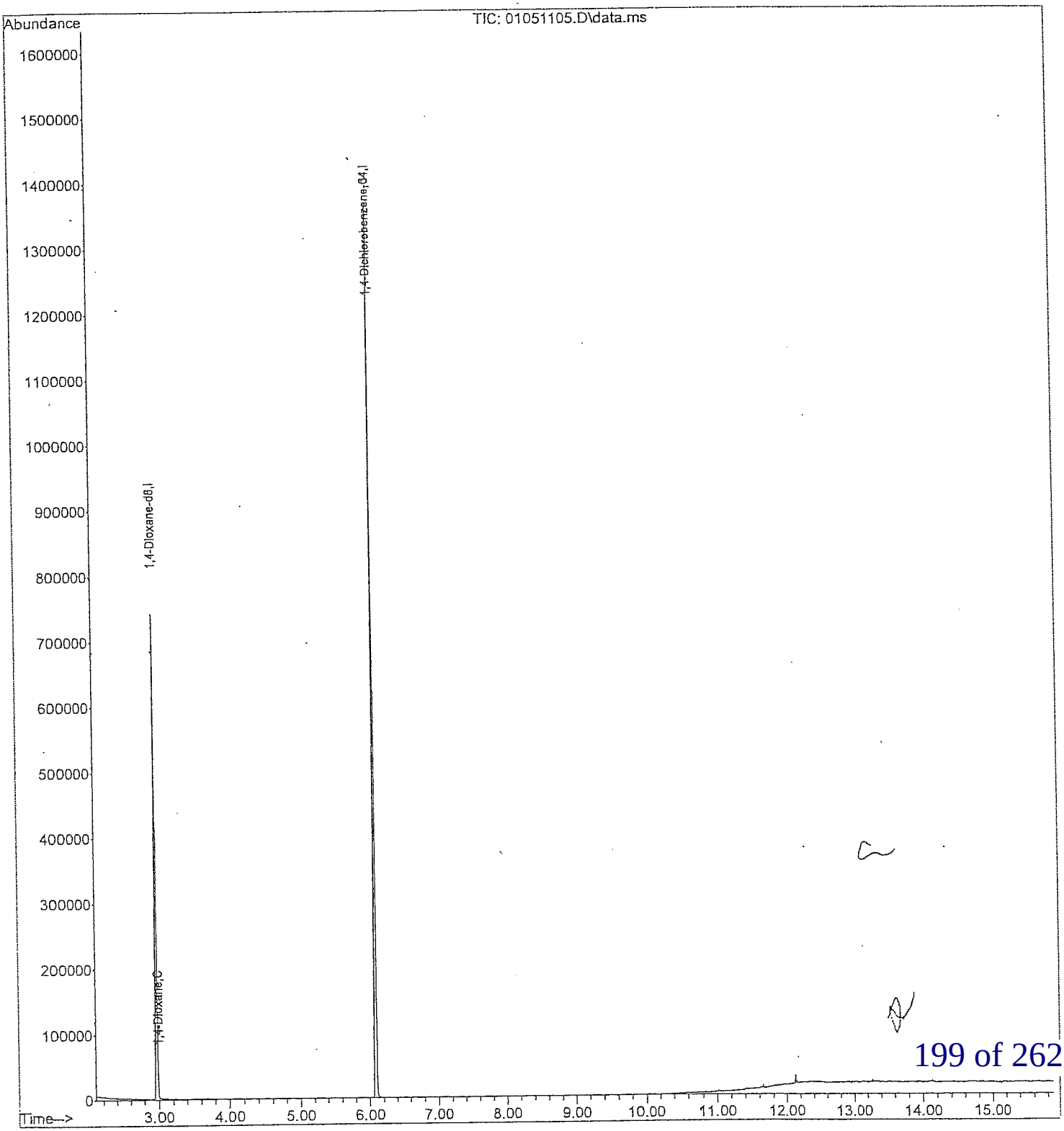
01-5-11

01/05/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

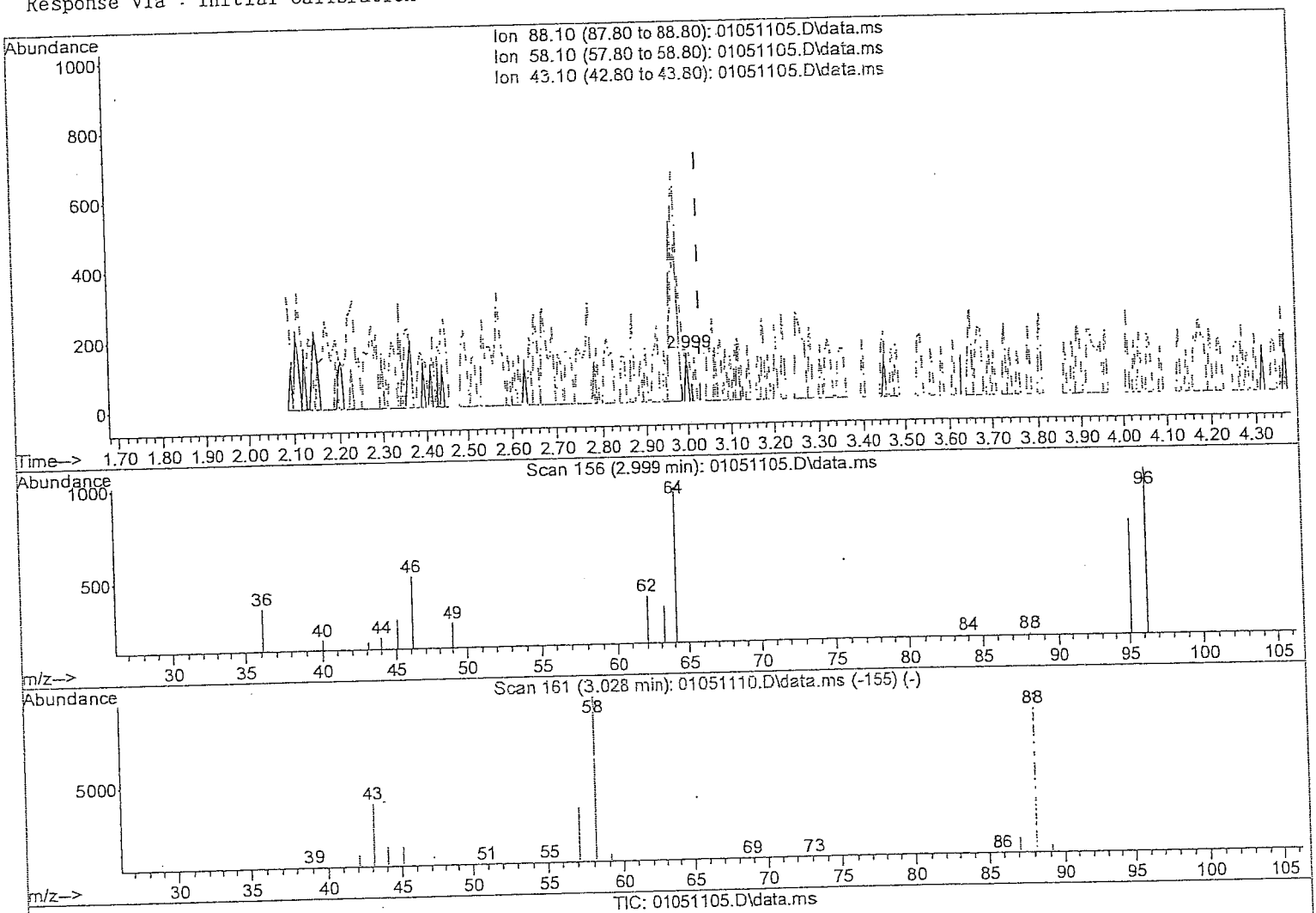
Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051105.D
Acq On : 5 Jan 2011 10:44 am
Operator : CL
Sample : BLANK
Misc : 1,4-DIOXANE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 05 13:45:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration



(2) 1,4-Dioxane (C)

2.999min (-0.029) 0.00ug/mL

response 49

Ion	Exp%	Act%
88.10	100	100
58.10	97.60	1263.27#
43.10	39.30	2171.43#
0.00	0.00	0.00

ND ~ 1.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.963	96	318261	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	240601	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	20080	0.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.016	88	7745	0.48 ug/mL	96
4) 1,4-Dichlorobenzene	6.104	146	19858	0.51 ug/mL	87
5) N-Nitrosodi-n-propylamine	6.422	70	12932	0.61 ug/mL	98

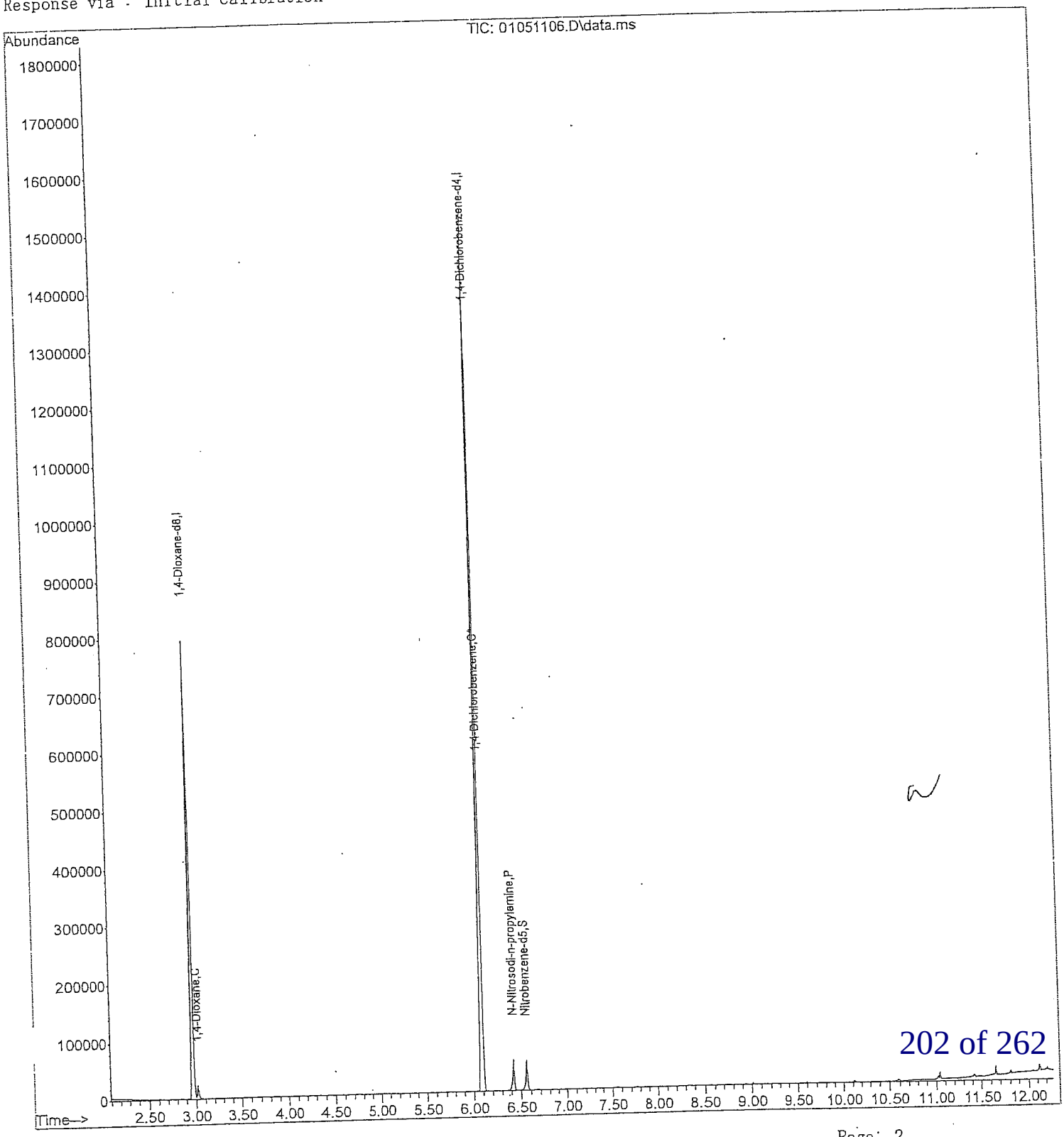
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01-5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051106.D
Acq On : 5 Jan 2011 11:10 am
Operator : CL
Sample : 0.5ug/mL PU00059
Misc : 1,4-DIOXANE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 05 11:25:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.969	96	283387	20.00 ug/mL	0.02
3) 1,4-Dichlorobenzene-d4	6.092	152	213017	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	36439	1.28 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	14877	1.04 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	35480	1.03 ug/mL	95
5) N-Nitrosodi-n-propylamine	6.422	70	23862	1.28 ug/mL	96

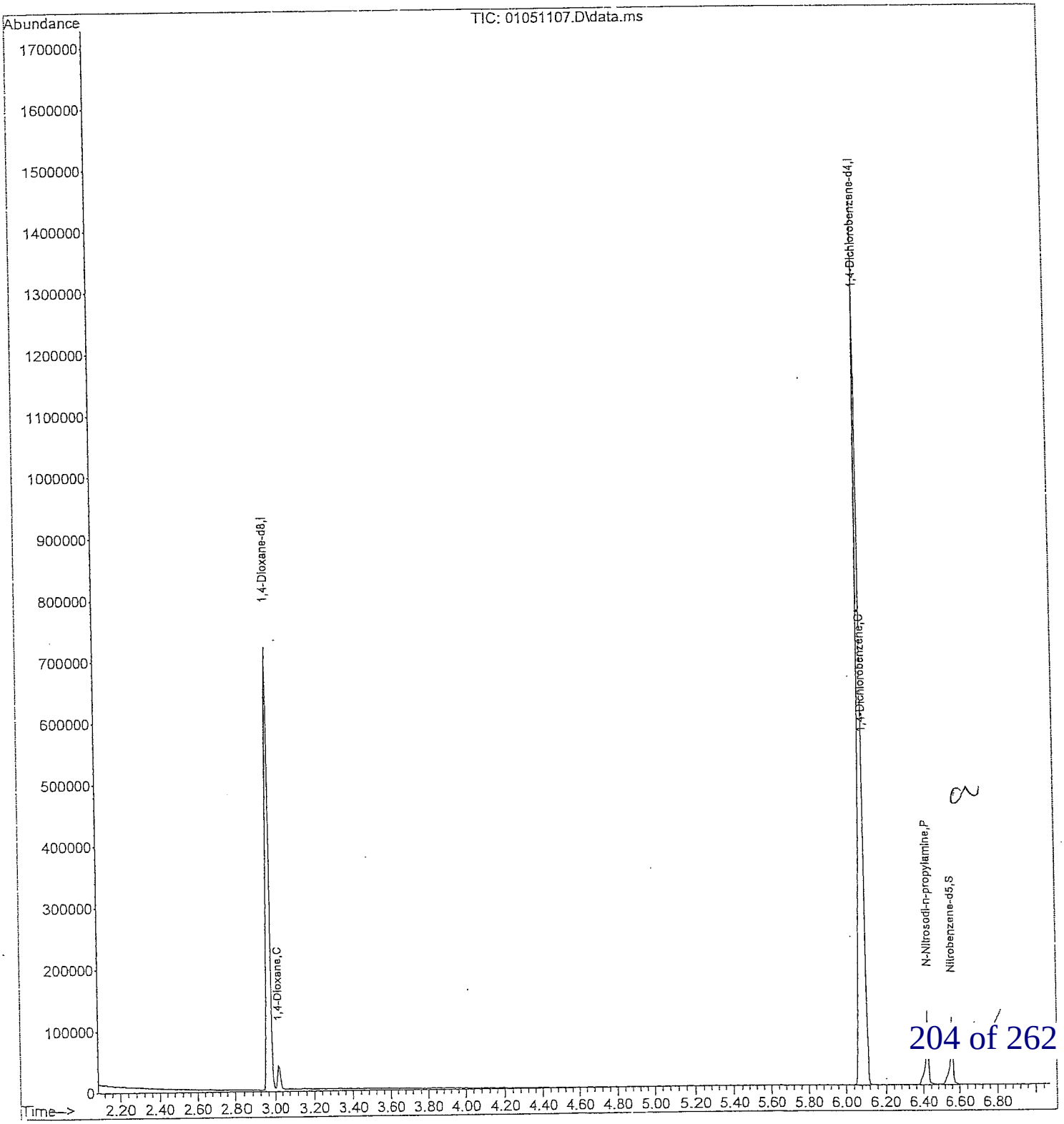
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051107.D
Acq On : 5 Jan 2011 11:32 am
Operator : CL
Sample : 1.0ug/mL PU00060
Misc : 1,4-DIOXANE
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 05 11:44:38 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	323796	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.087	152	240424	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	92526	2.87 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.022	88	34074	2.09 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	83920	2.15 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.416	70	59969	2.84 ug/mL	99

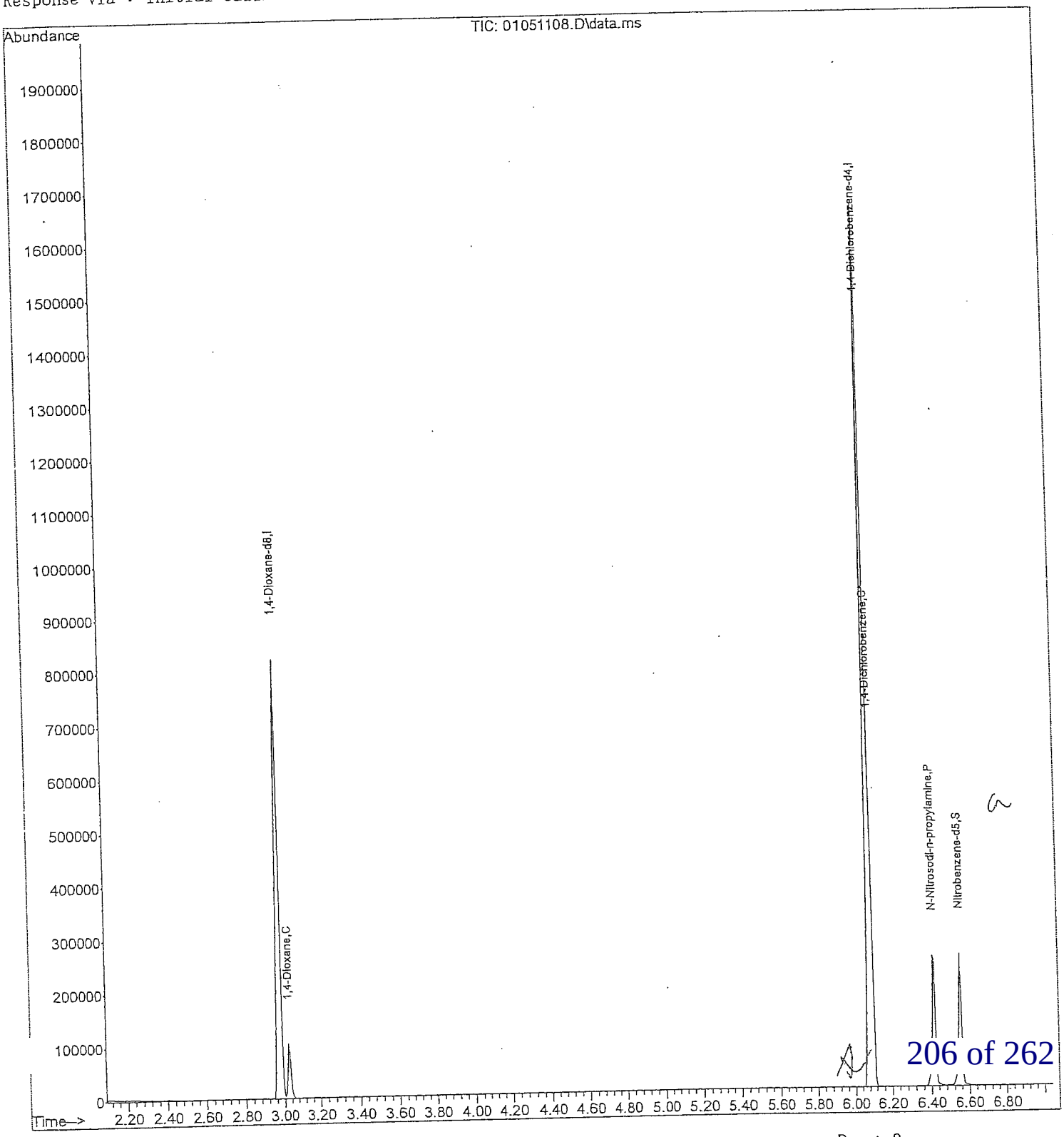
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051108.D
Acq On : 5 Jan 2011 11:46 am
Operator : CL
Sample : 2.0ug/mL PU00061
Misc : 1,4-DIOXANE
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 05 11:54:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.957	96	304589	20.00 ug/mL	0.01
3) 1,4-Dichlorobenzene-d4	6.092	152	229794	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	173101	5.62 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.004	88	65016	4.24 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	157766	4.23 ug/mL	98
5) N-Nitrosodi-n-propylamine	6.422	70	115445	5.73 ug/mL	98

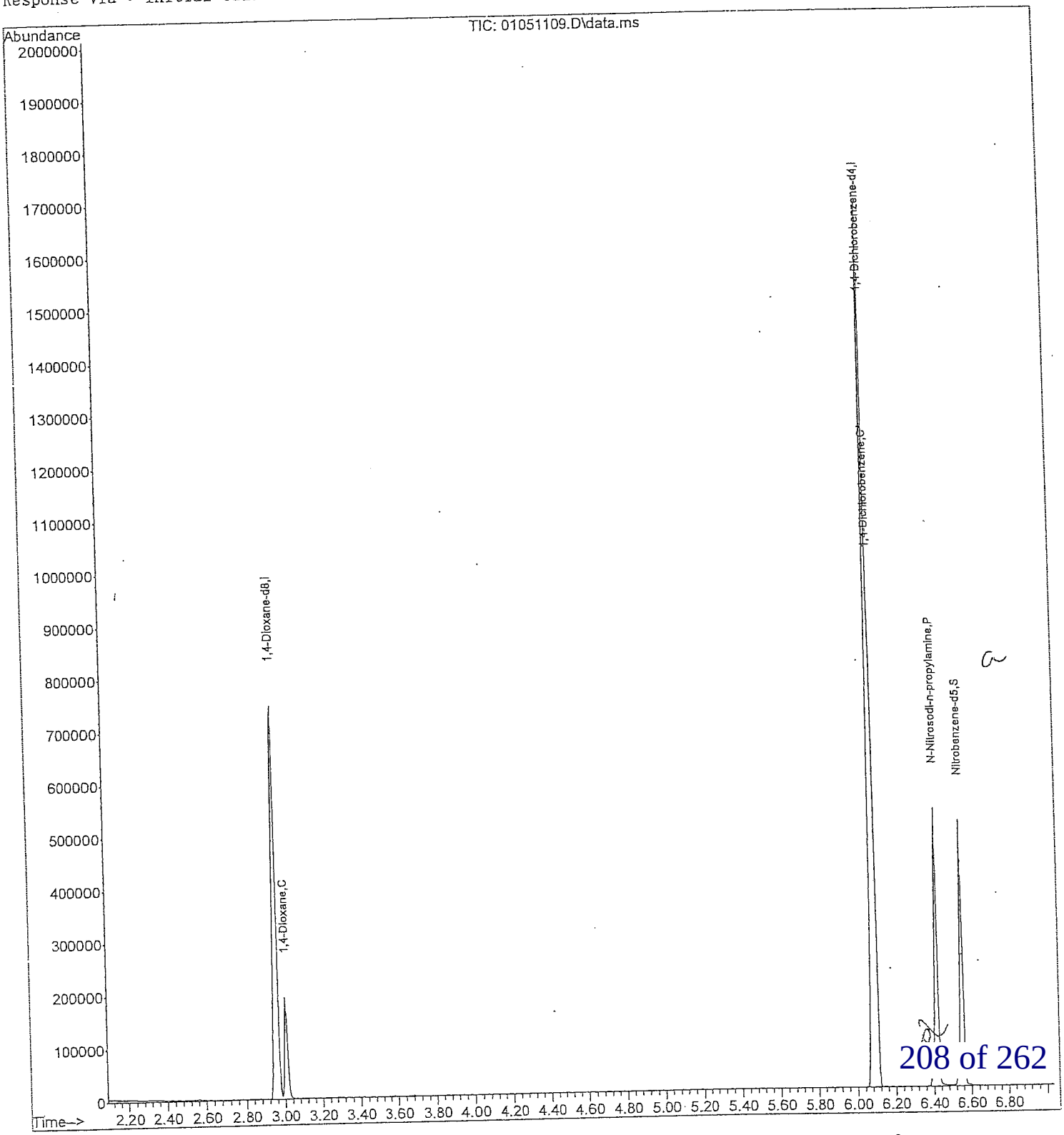
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051109.D
Acq On : 5 Jan 2011 11:59 am
Operator : CL
Sample : 4.0ug/mL PU00062
Misc : 1,4-DIOXANE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 05 12:19:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	326940	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	243008	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	454083	13.94 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.028	88	171569	10.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.104	146	404965	10.27 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.422	70	304989	14.31 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

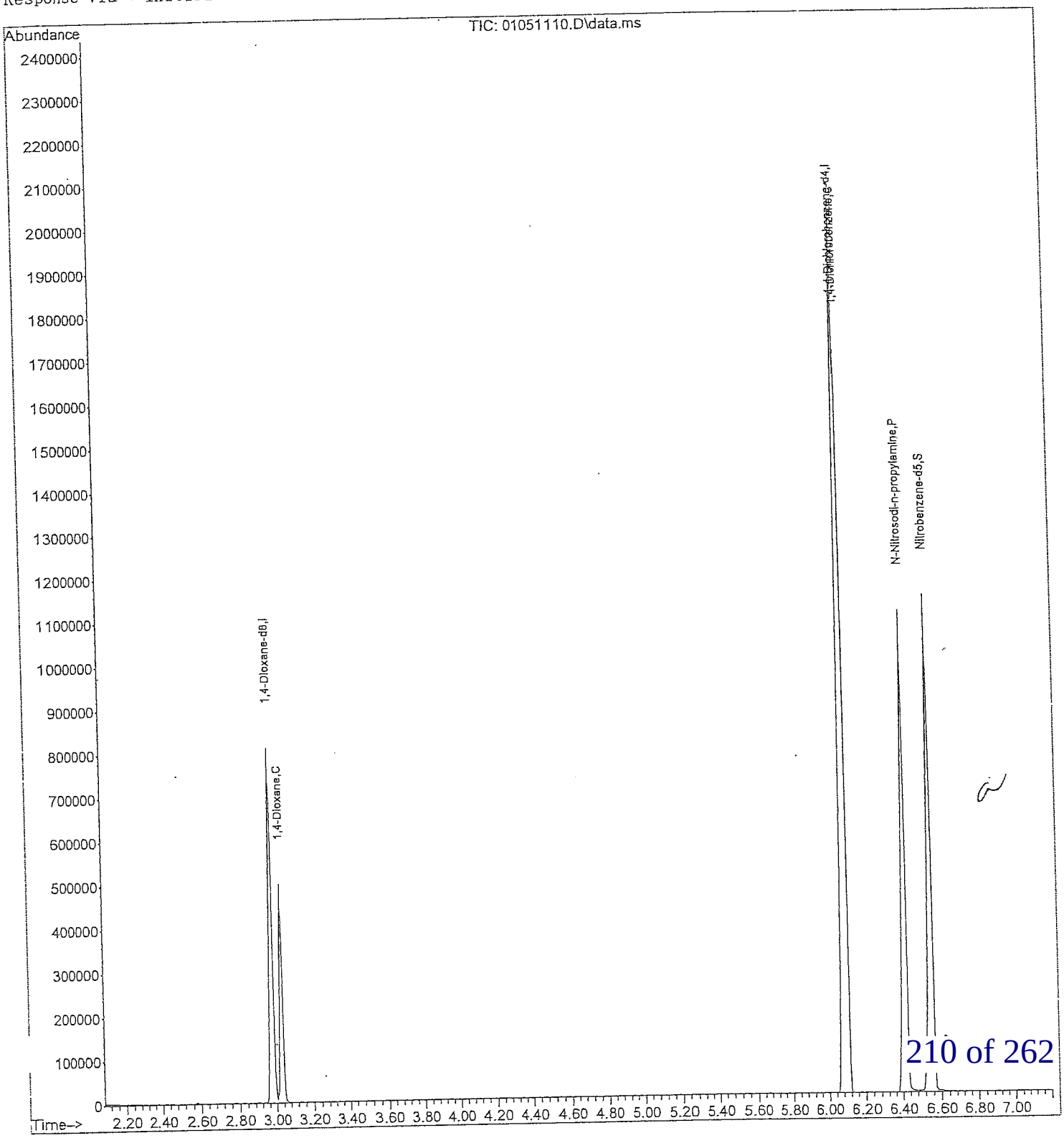
01-5-11

Final

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051110.D
Acq On : 5 Jan 2011 12:12 pm
Operator : CL
Sample : 10ug/mL PU00063
Misc : 1,4-DIOXANE
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 05 12:20:18 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.892	96	258958	20.00 ug/mL	-0.05
3) 1,4-Dichlorobenzene-d4	6.092	152	185062	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	670408	27.02 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.951	88	261828	20.07 ug/mL	100
4) 1,4-Dichlorobenzene	6.104	146	613271	20.43 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	453173	27.92 ug/mL	99

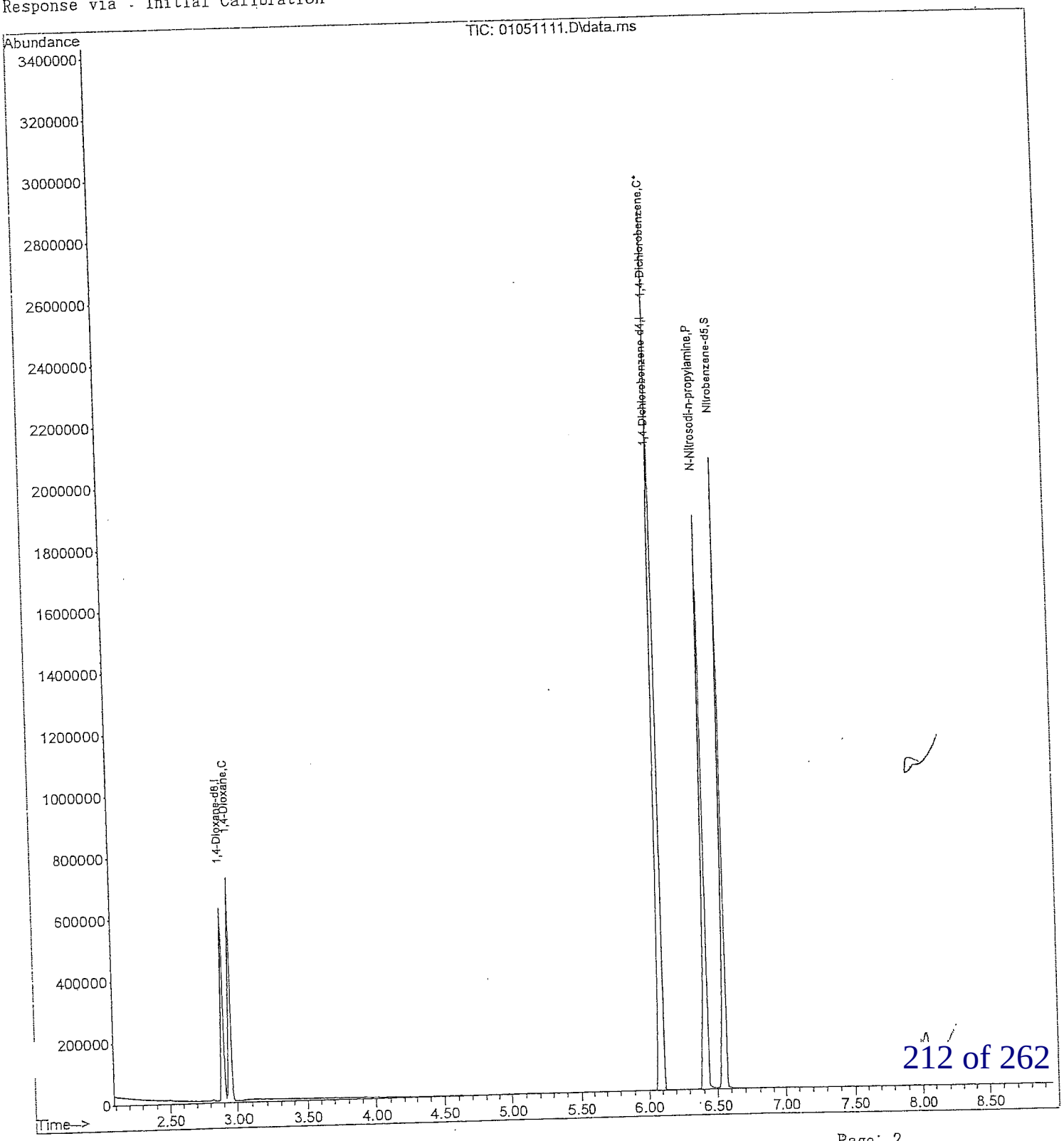
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051111.D
Acq On : 5 Jan 2011 12:25 pm
Operator : CL
Sample : 20ug/mL PU00064
Misc : 1,4-DIOXANE
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 05 12:43:52 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.975	96	330882	20.00 ug/mL	0.03
3) 1,4-Dichlorobenzene-d4	6.092	152	235894	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.563	82	1276344	40.36 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	3.040	88	495415	29.72 ug/mL	98
4) 1,4-Dichlorobenzene	6.104	146	1137949	29.74 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.428	70	858130	41.47 ug/mL	99

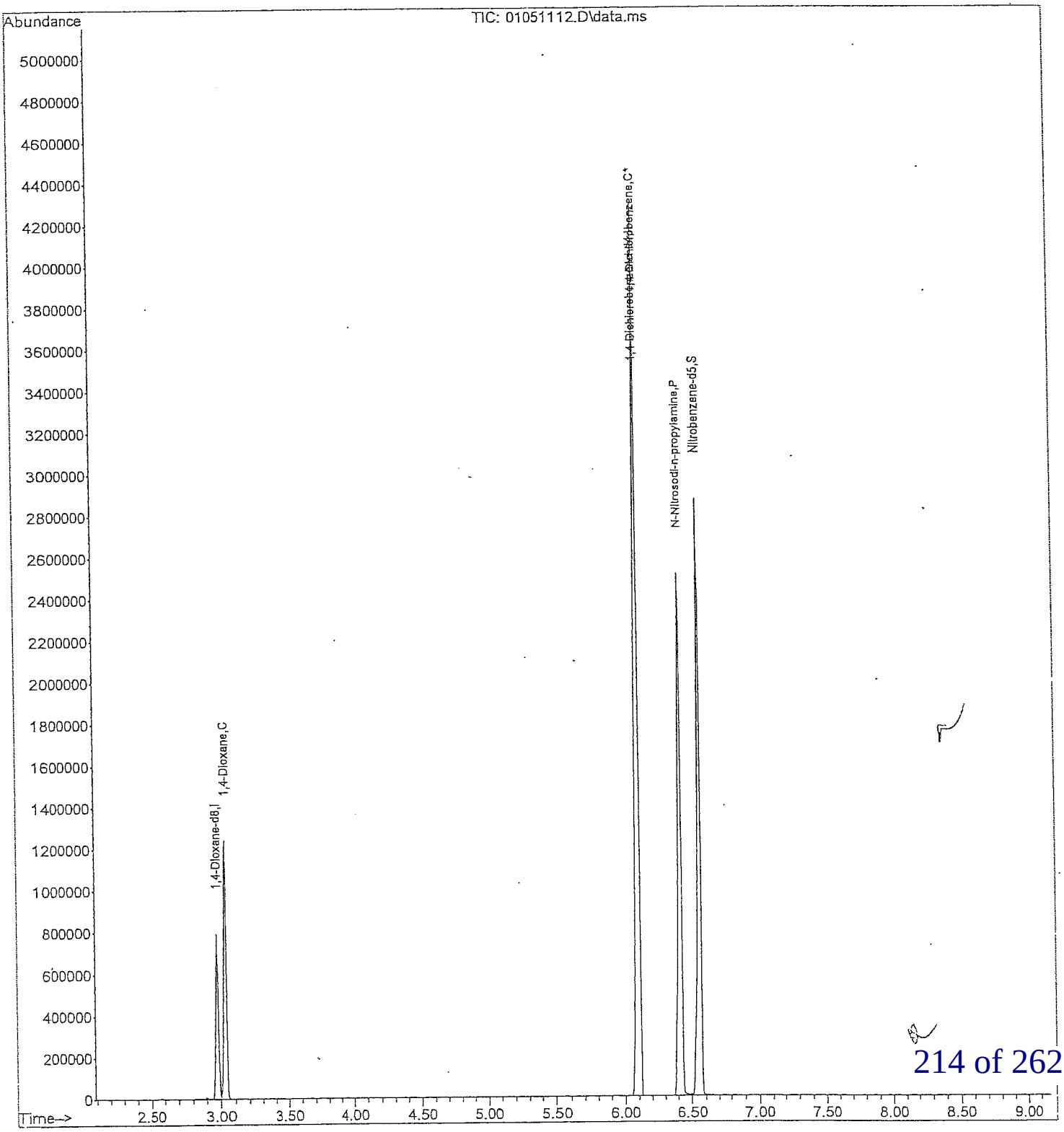
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01-5-11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051112.D
Acq On : 5 Jan 2011 12:41 pm
Operator : CL
Sample : 30ug/mL PU00065
Misc : 1,4-DIOXANE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 05 12:57:20 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.875	96	235570	20.00 ug/mL	-0.07
3) 1,4-Dichlorobenzene-d4	6.093	152	170137	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.569	82	1198475	52.55 ug/mL	0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.940	88	479723	40.42 ug/mL	99
4) 1,4-Dichlorobenzene	6.110	146	1084666	39.30 ug/mL	99
5) N-Nitrosodi-n-propylamine	6.434	70	813006	54.48 ug/mL	100

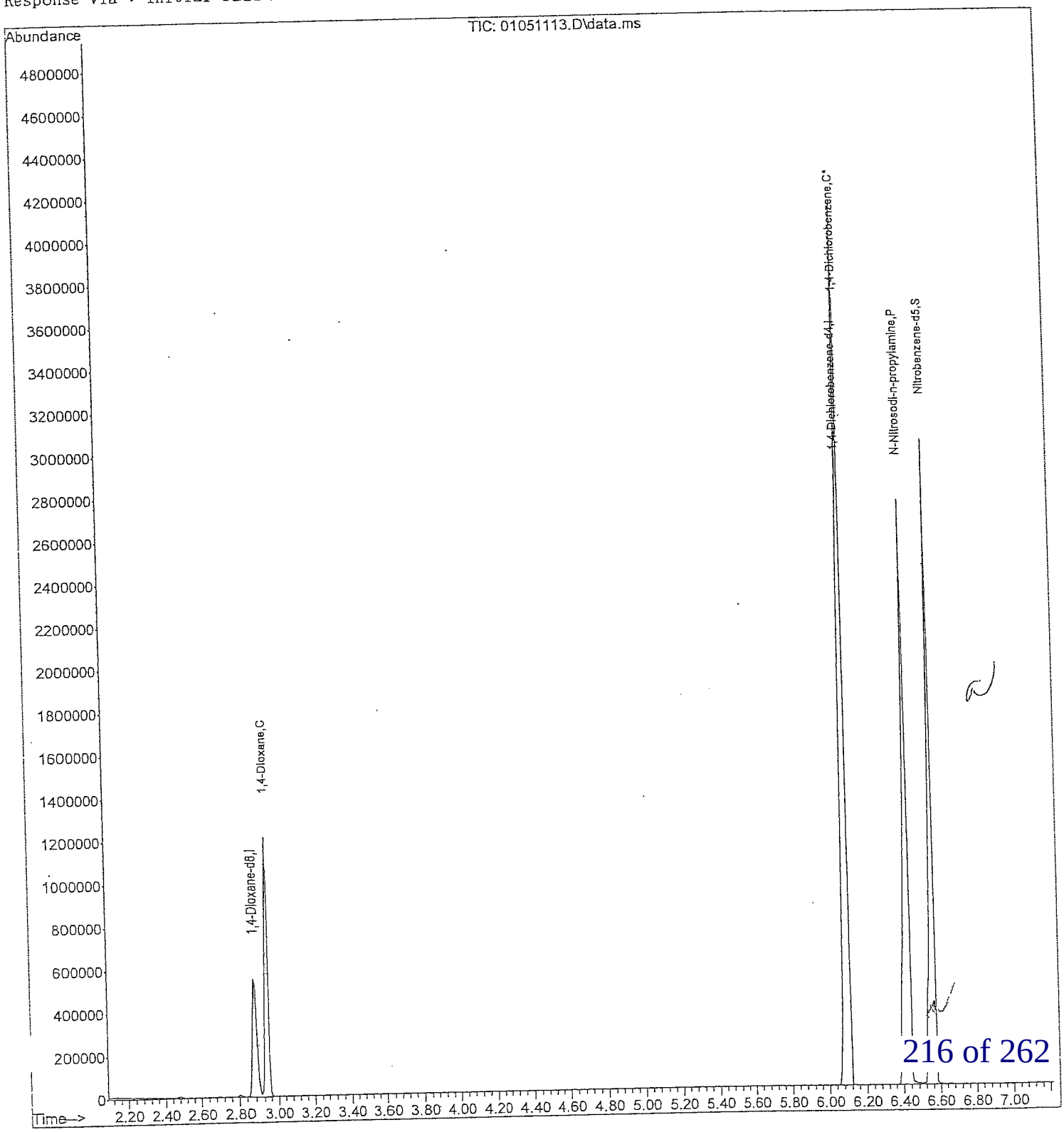
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051113.D
Acq On : 5 Jan 2011 12:58 pm
Operator : CL
Sample : 40ug/mL PU00066
Misc : 1,4-DIOXANE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 05 13:09:05 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm.
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.787	96	203549m	20.00 ug/mL	-0.16
3) 1,4-Dichlorobenzene-d4	6.092	152	140662	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.581	82	2386881	126.59 ug/mL	0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.863	88	957052m	93.33 ug/mL	
4) 1,4-Dichlorobenzene	6.110	146	2103702	92.19 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.451	70	1646696	133.46 ug/mL	99

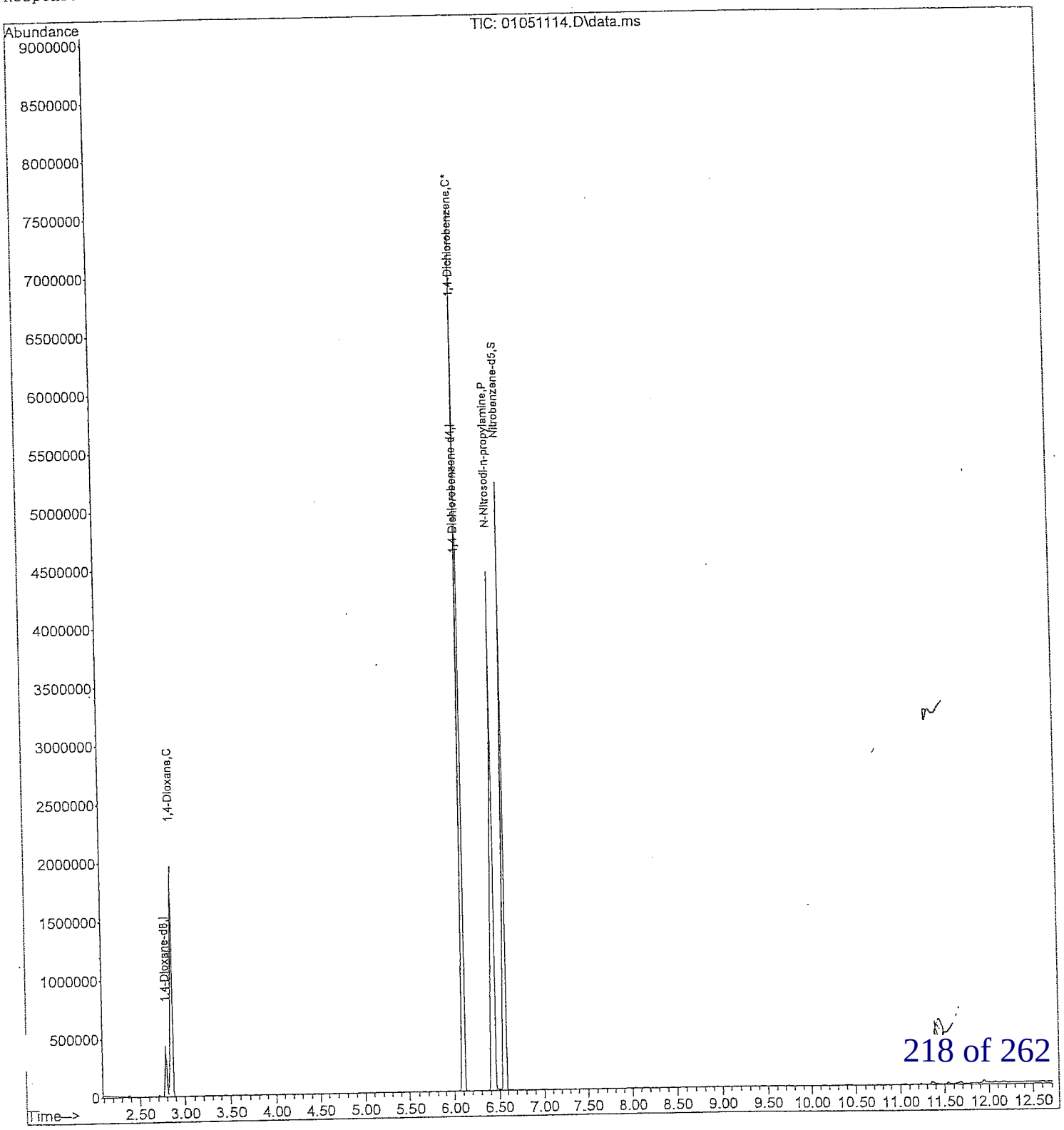
(#) = qualifier out of range (m) = manual integration (+) = signals summed

01.5.11.

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

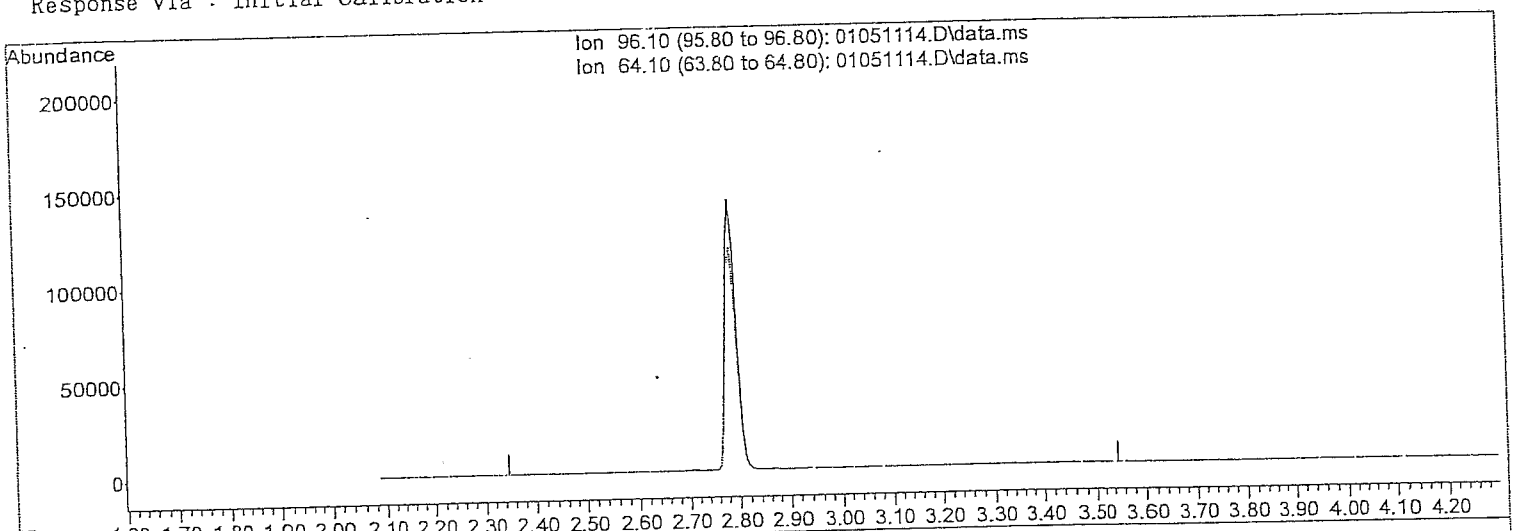
Quant Time: Jan 05 13:26:30 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration

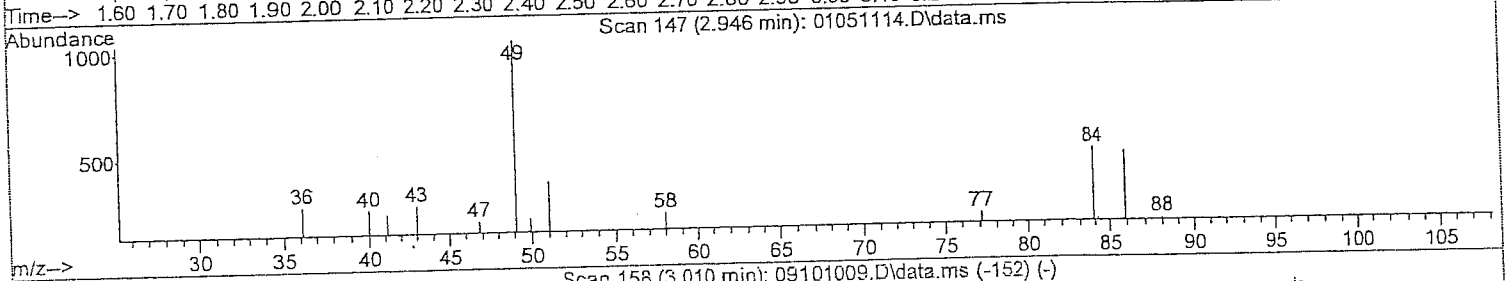


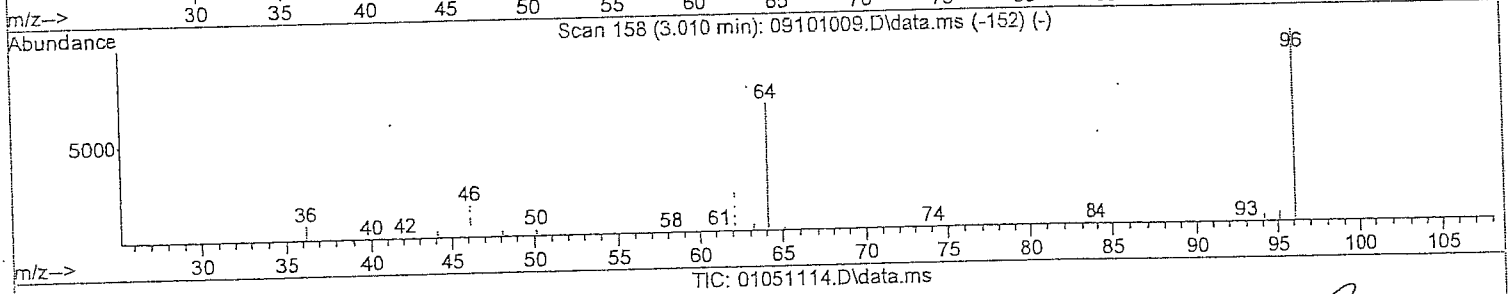
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







B

(1) 1,4-Dioxane-d8 (I)

2.946min (-2.946) 0.00ug/mL

response 0

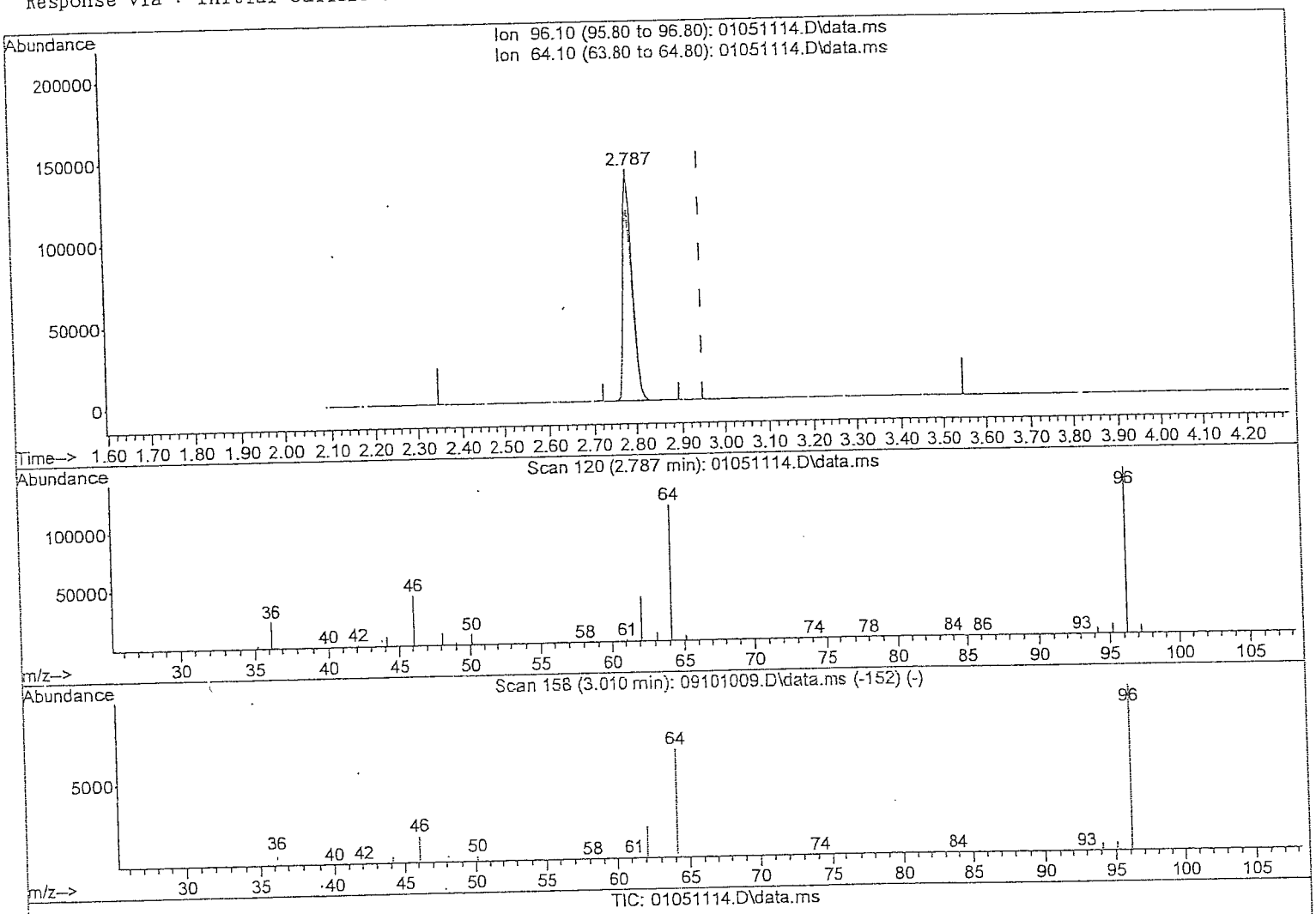
Ion	Exp%	Act%
96.10	100	0.00
64.10	83.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

ID 01.5.11

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration



(1) 1,4-Dioxane-d8 (I)

2.787min (-0.159) 20.00ug/mL m

response 203549

Ion	Exp%	Act%
96.10	100	100
64.10	83.80	83.74
0.00	0.00	0.00
0.00	0.00	0.00

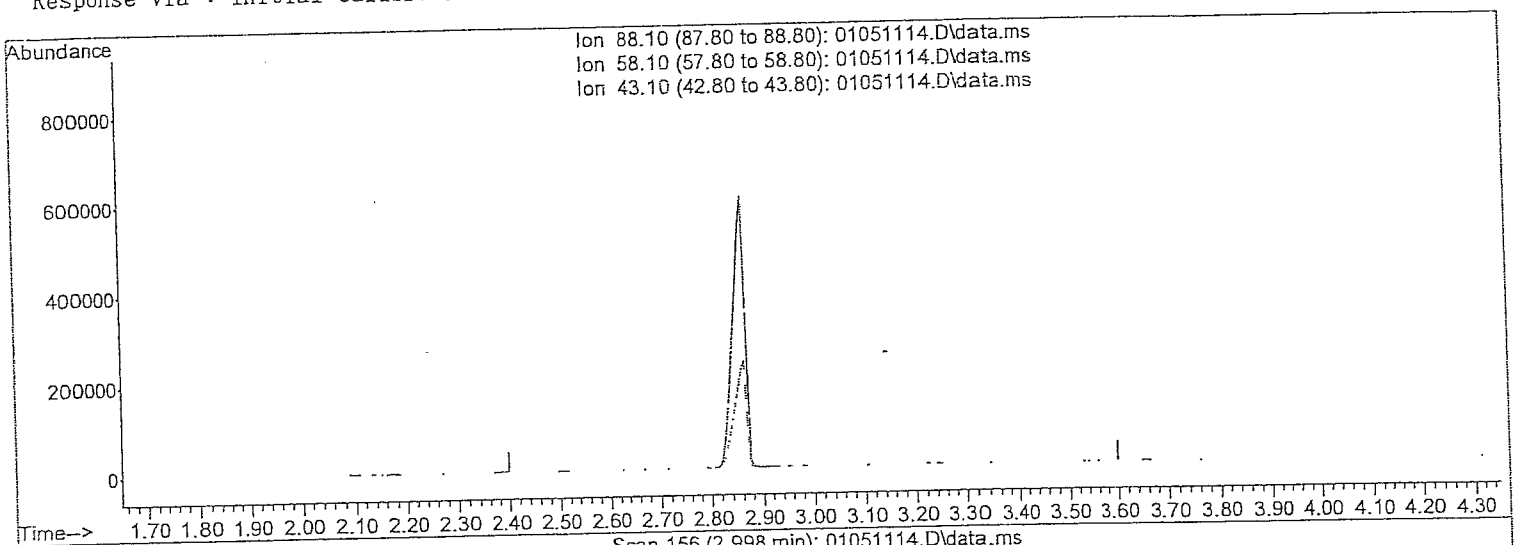
A

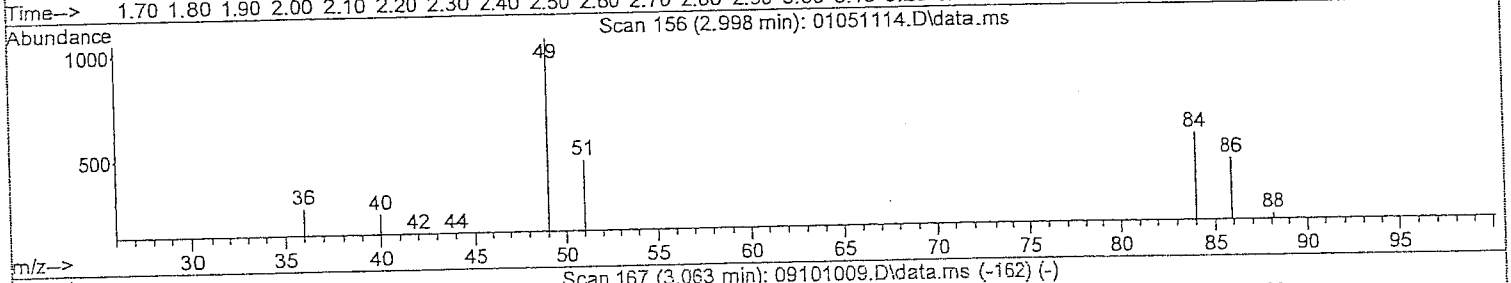
1-5-11

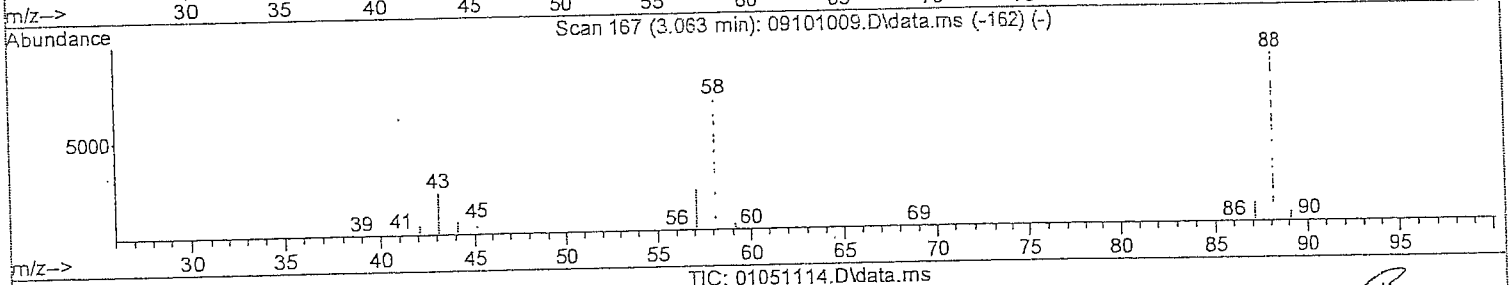
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

B

(2) 1,4-Dioxane (C)

2.998min (-2.998) 0.00ug/mL

response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	97.70	0.00#
43.10	38.10	0.00#
0.00	0.00	0.00

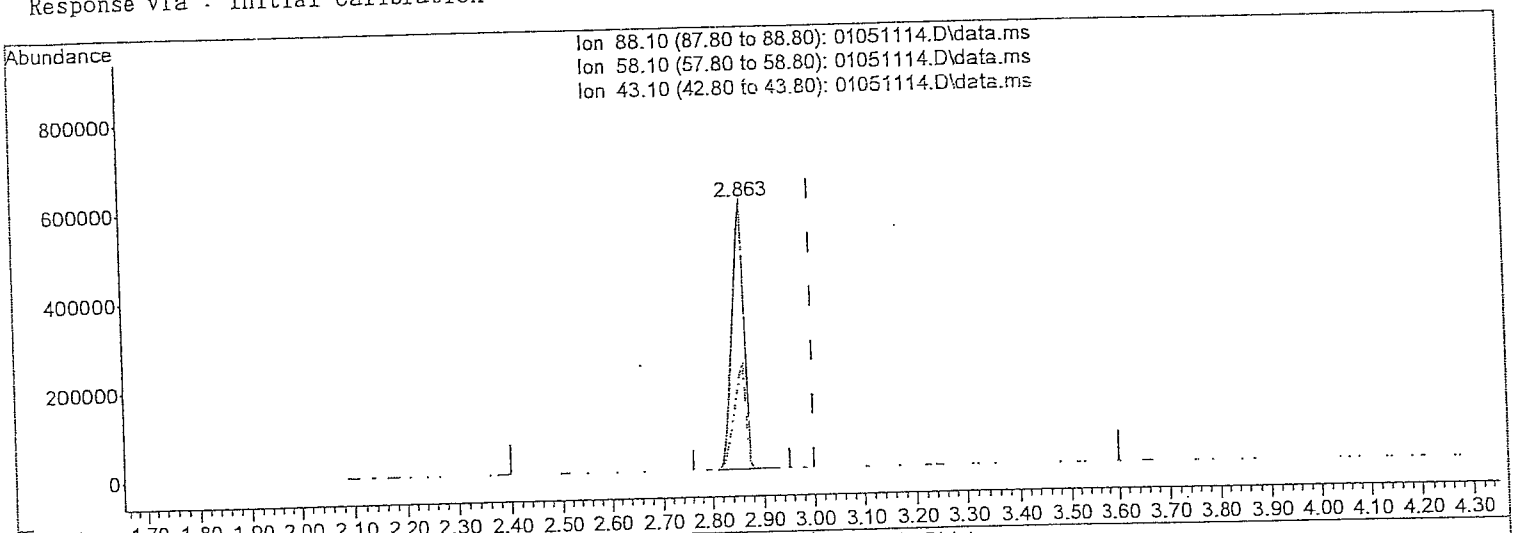
BD

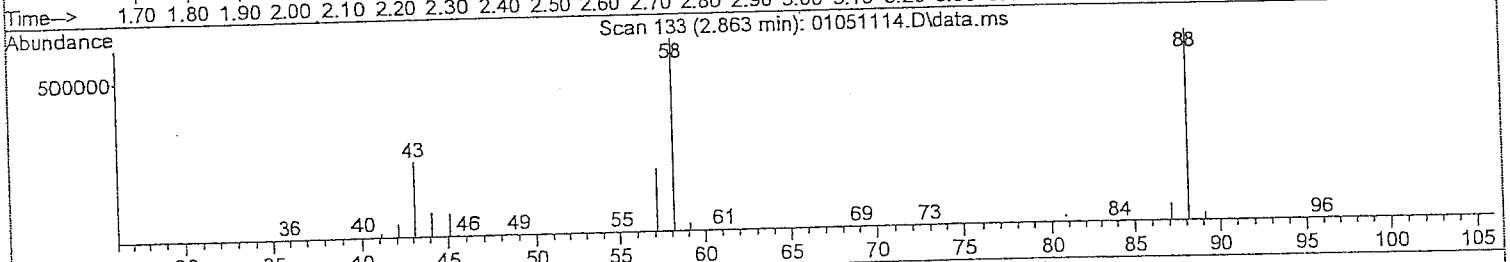
a 1.5.11

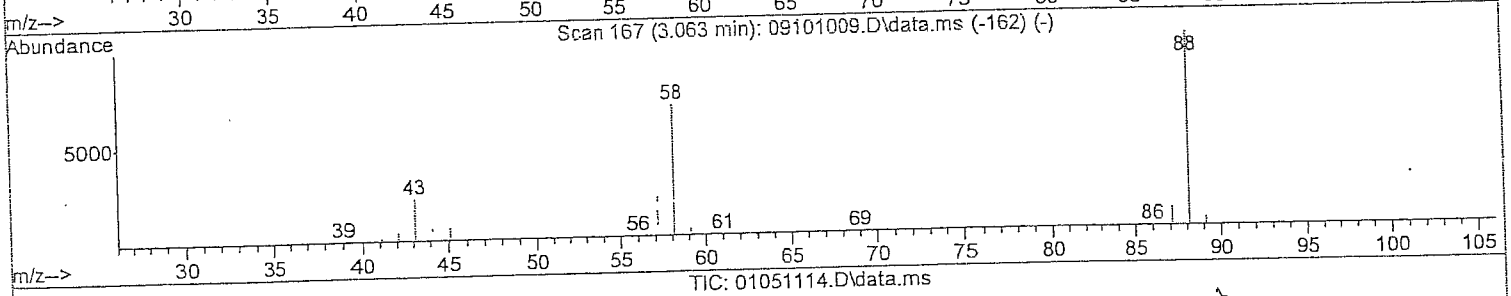
Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051114.D
Acq On : 5 Jan 2011 1:11 pm
Operator : CL
Sample : 100ug/mL PU0067
Misc : 1,4-DIOXANE
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 05 13:24:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 11:25:11 2011
Response via : Initial Calibration







TIC: 01051114.D\data.ms

(2) 1,4-Dioxane (C)

2.863min (-0.135) 93.33ug/mL m

response 957052

Ion	Exp%	Act%
88.10	100	100
58.10	97.70	100.08
43.10	38.10	38.93
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.946	96	322333	20.00 ug/mL	-0.03
3) 1,4-Dichlorobenzene-d4	6.086	152	233788	10.00 ug/mL	0.00
System Monitoring Compounds					
6) Nitrobenzene-d5	6.557	82	43	0.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.998	88	165372	10.08 ug/mL	98
4) 1,4-Dichlorobenzene	6.081	146	386	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

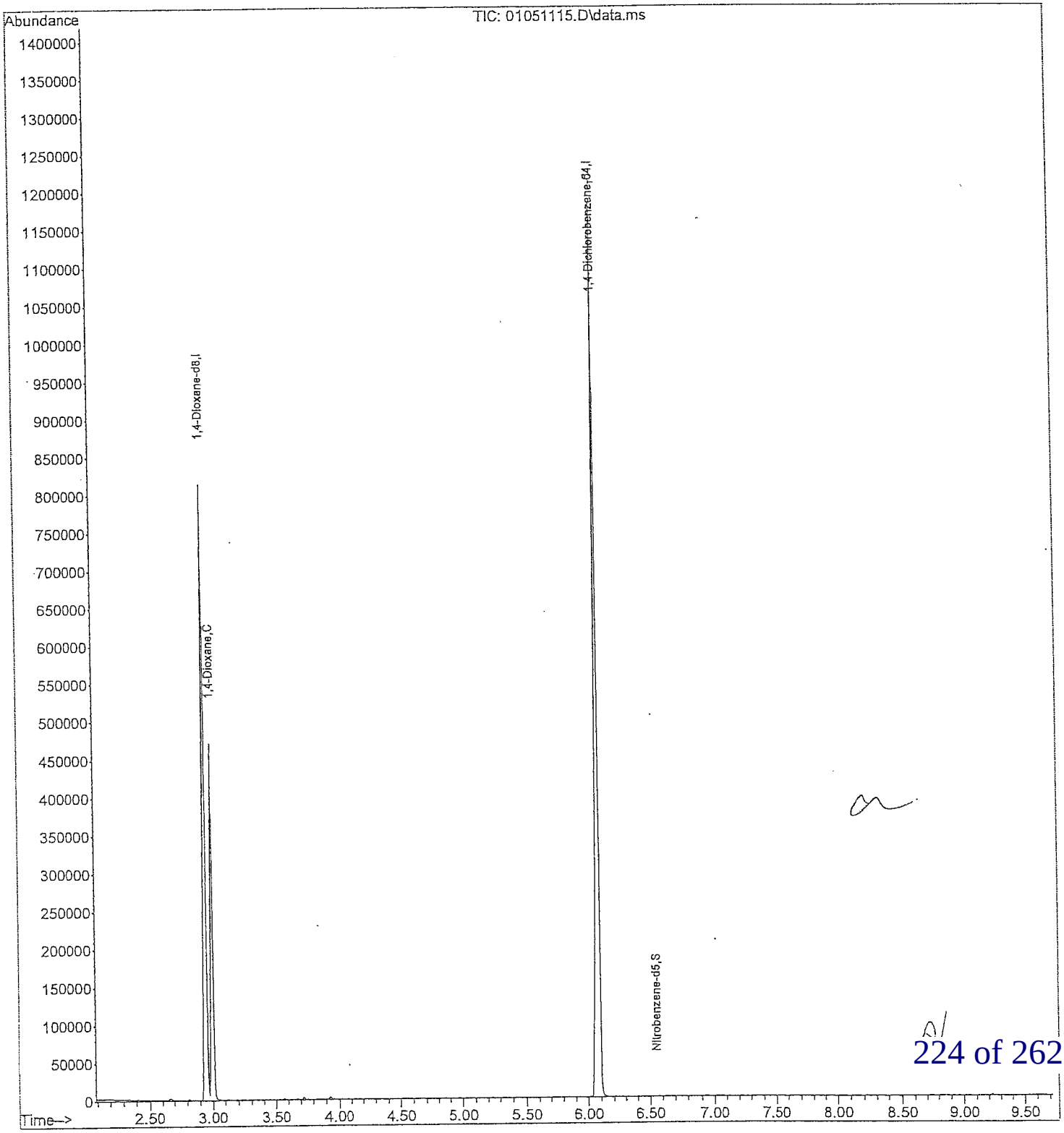
100.8 v/2

01.5.11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥010511¥
Data File : 01051115.D
Acq On : 5 Jan 2011 1:33 pm
Operator : CL
Sample : QCS10ug/mL PU00068
Misc : 1,4-DIOXANE
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 05 13:43:34 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Wed Jan 05 13:29:49 2011
Response via : Initial Calibration



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL DATA

METHOD: EPA 8270C

DATE: 03/18/11

WORK ORDER: PUC1113-01

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Phoenix

SOP No. PE-SVD-014, R.1
Effective Date: 01/18/2011
Page No.: 1 of 1

Attachment 9
ANALYTICAL DATA REVIEW CHECKLIST

SOP PE-SVD-014 R.1
1, 4-Dioxane by Modified EPA 8270C

Analyst: C-Laurie	Batch ID# ~~11C075~~	Date Analyzed: 3-18-11

	Description a 3/21/11 11C0675	Yes	No	NA[1]
1.	Tune 6:15 PM 3-18-11			
-	DFTPP (~~50~~ 25 ng) meets method criteria?	✓		
-	Tailing – Benzidine (Base/Neutrals) ≤ 3.0?	✓		
-	All samples analyzed <12 hours from time of Tune?	✓		
2.	Calibration Curve (minimum of 5 levels)	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	CCC 1,4-Dichlorobenzene ≤30%	✓		
-	All compounds RSD ≤20% or linear/quadratic $r^2 \geq 0.99$	✓		
-	QCS recovered ± 30%	✓		
-	Date of Initial Calibration: 010511D Instrument: C CMS14			
3.	Retention Times Updated?		✓	
4.	CCVs all analytes ~~recovered~~ within ± 20% D (includes CCC 1, 4-Dichlorobenzene)?	✓		
-	SPCC N-Nitroso-propylamine meets min. RF 0.05?	✓		
-	Internal Standard RT ± 0.5 min. from 10~~ppb~~ ug/mL std. in ICAL?	✓		
-	Internal Standard Areas -50% to ~~200~~ +100% of 10~~ppb~~ ug/mL std. in ICAL?	✓		
-	Analyte RRTs ± 0.06 from ~~50ppb~~ 10 ug/mL std. in ICAL?	✓		
5.	Method Blank extracted with batch?	✓		
-	All target analytes recovered <RL?	✓		
6.	LCS/LCSD extracted with batch?	✓		
-	Recoveries within Laboratory Limits?	✓		
-	RPDs ≤ Laboratory Limits?	✓		
7.	MS/MSD extracted with batch?			
-	Recoveries within Historical Limits?			
-	RPDs Laboratory Limits?			
8.	Samples extracted within 7 days from collection?	✓		
-	Samples analyzed within 40 days from extraction?	✓		
-	Internal Standard RT ± 0.5 min. from CCV?	✓	X a 3-21-11	
-	Internal Standard Areas -50% to ~~200~~ +100% of 10 ~~ppb~~ ug/mL std. in ICAL?		✓	
-	Maximum of 20 samples in batch?	✓		
-	Surrogate recoveries within Historical Limits?		✓	

a 2/28/11 (Tune)
a 2/28/11 (CCVs)
a 2/28/11 (Internal Standard Areas)
a 2/28/11 (Internal Standard Areas)
a 2/28/11 (Comments)

mwR1

I

Z2

Comments: IS Element ID(s): PTO 2037 (1,4-DCB-d4)

Review Signatures:	Analyst: C Lauri Jessica Bruchen	Date: 3/21/11; 03/22/11
	Reviewer: Amy L Lenovich	Date: 3/21/11

[1]) NA: Not Applicable

TestAmerica
Phoenix

GCMS 14 - RUN LOGBOOK

Sequence Name: D:¥msdchem¥1¥GCMS14¥sequence¥031811.S
Comment:
Operator: CL/AC
Data Path: D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	1	03181101	DB5MS14	DCM
2)	Sample	2	03181102	DB5MS14	DCM
3)	Sample	3	03181103	DB5MS14	DCM
4)	Sample	4	03181104	DB5MS14	25ng tune std pu01447
5)	Sample	5	03181105	DIOXANE	DCM
6)	Sample	6	03181106	DIOXANE	10ug/mL 14-diox-01520
7)	Sample	7	03181107	DIOXANE	DCM
8)	Sample	8	03181108	DIOXANE	11C0614-BLK1
9)	Sample	9	03181109	DIOXANE	11C0614-BS1
10)	Sample	10	03181110	DIOXANE	11C0614-BSD1
11)	Sample	11	03181111	DIOXANE	PUC0982-02
12)	Sample	12	03181112	DIOXANE	11C0614-MS1
13)	Sample	13	03181113	DIOXANE	11C0614-MSD1
14)	Sample	14	03181114	DIOXANE	PUC0911-02
15)	Sample	15	03181115	DIOXANE	11C0614-MS2
16)	Sample	16	03181116	DIOXANE	11C0614-MSD2
17)	Sample	17	03181117	DIOXANE	PUC0911-01
18)	Sample	18	03181118	DIOXANE	PUC0911-03
19)	Sample	19	03181119	DIOXANE	PUC0911-04
20)	Sample	20	03181120	DIOXANE	PUC0911-05
21)	Sample	21	03181121	DIOXANE	PUC0982-01
22)	Sample	22	03181122	DIOXANE	PUC1004-01
23)	Sample	1	03181123	DB5MS14	25ng tune std pu01447
24)	Sample	2	03181124	DIOXANE	DCM
25)	Sample	3	03181125	DIOXANE	10ug/mL 14-diox-01520
26)	Sample	4	03181126	DIOXANE	11C0675-BLK1
27)	Sample	5	03181127	DIOXANE	11C0675-BS1
28)	Sample	6	03181128	DIOXANE	11C0675-BSD1
29)	Sample	7	03181129	DIOXANE	PUC0982-03
30)	Sample	8	03181130	DIOXANE	PUC0982-04
31)	Sample	9	03181131	DIOXANE	PUC~~1102-01 HGC~~ 1002-01
32)	Sample	10	03181132	DIOXANE	PUC0731-02RE1
33)	Sample	11	03181133	DIOXANE	PUC1113-01
34)	Sample	12	03181134	DIOXANE	PUC1114-01
35)	Sample	13	03181135	DIOXANE	PUC1114-02
36)	Sample	14	03181136	DIOXANE	PUC1114-03
37)	Sample	15	03181137	DIOXANE	PUC1114-04
38)	Sample	16	03181138	DIOXANE	PUC1197-01
39)	Sample	17	03181139	DIOXANE	PUC1197-02
40)	Sample	18	03181140	DIOXANE	PUC1197-03
41)	Sample	19	03181141	DIOXANE	PUC1197-04
42)	Sample	20	03181142	DIOXANE	PUC1197-05

a 3/22/11

corrected in logbook 3/22/11

a 3-30-11

Sequence Reviewed By: a Date: 3-30-11

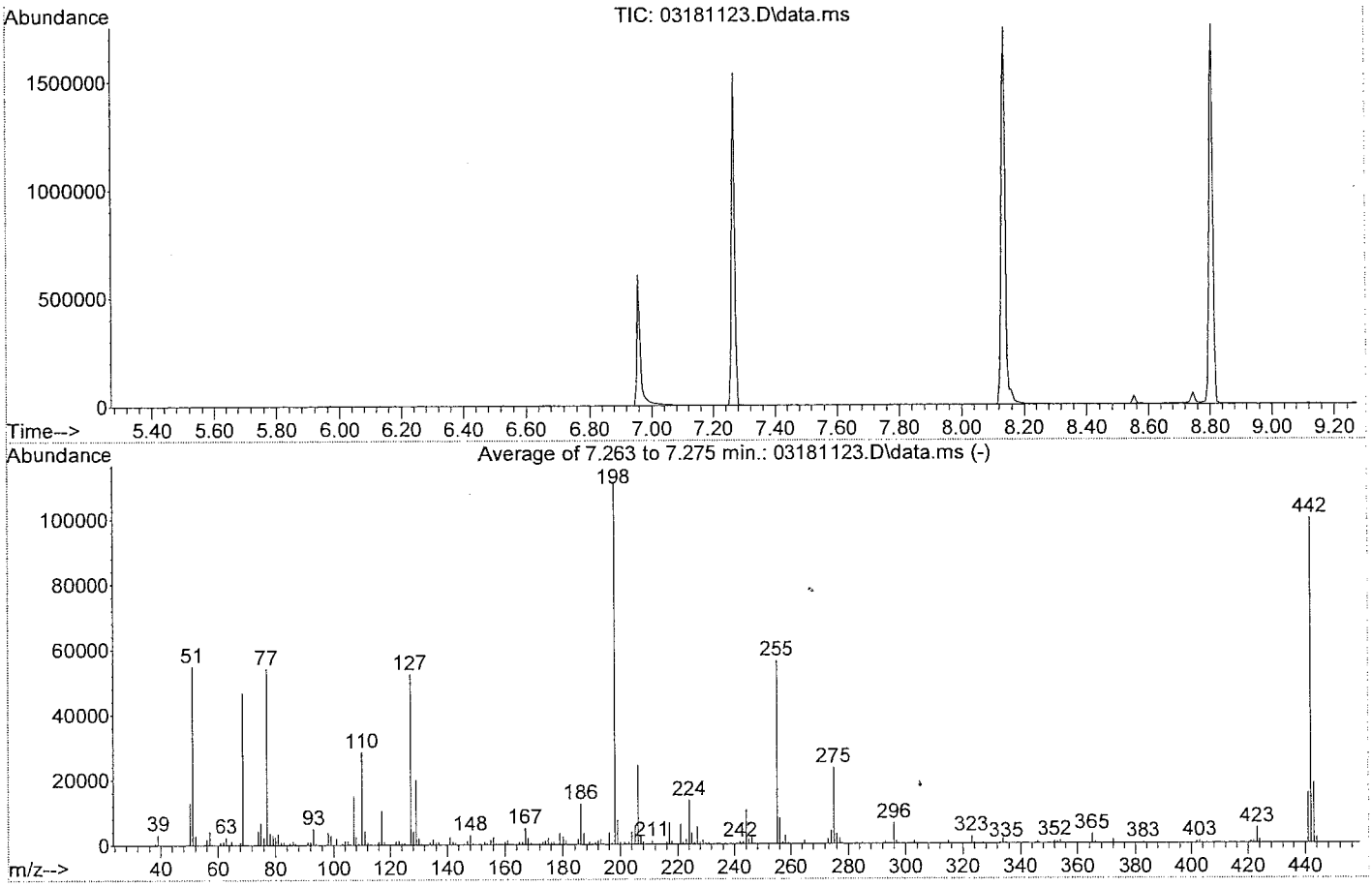
Date Analyzed: 3/30/11 Analyst: a Date Run: 3-18-

DFTPP

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181123.D
Acq On : 18 Mar 2011 6:15 pm
Operator : CL/AC
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
Last Update : Thu Feb 17 11:44:41 2011



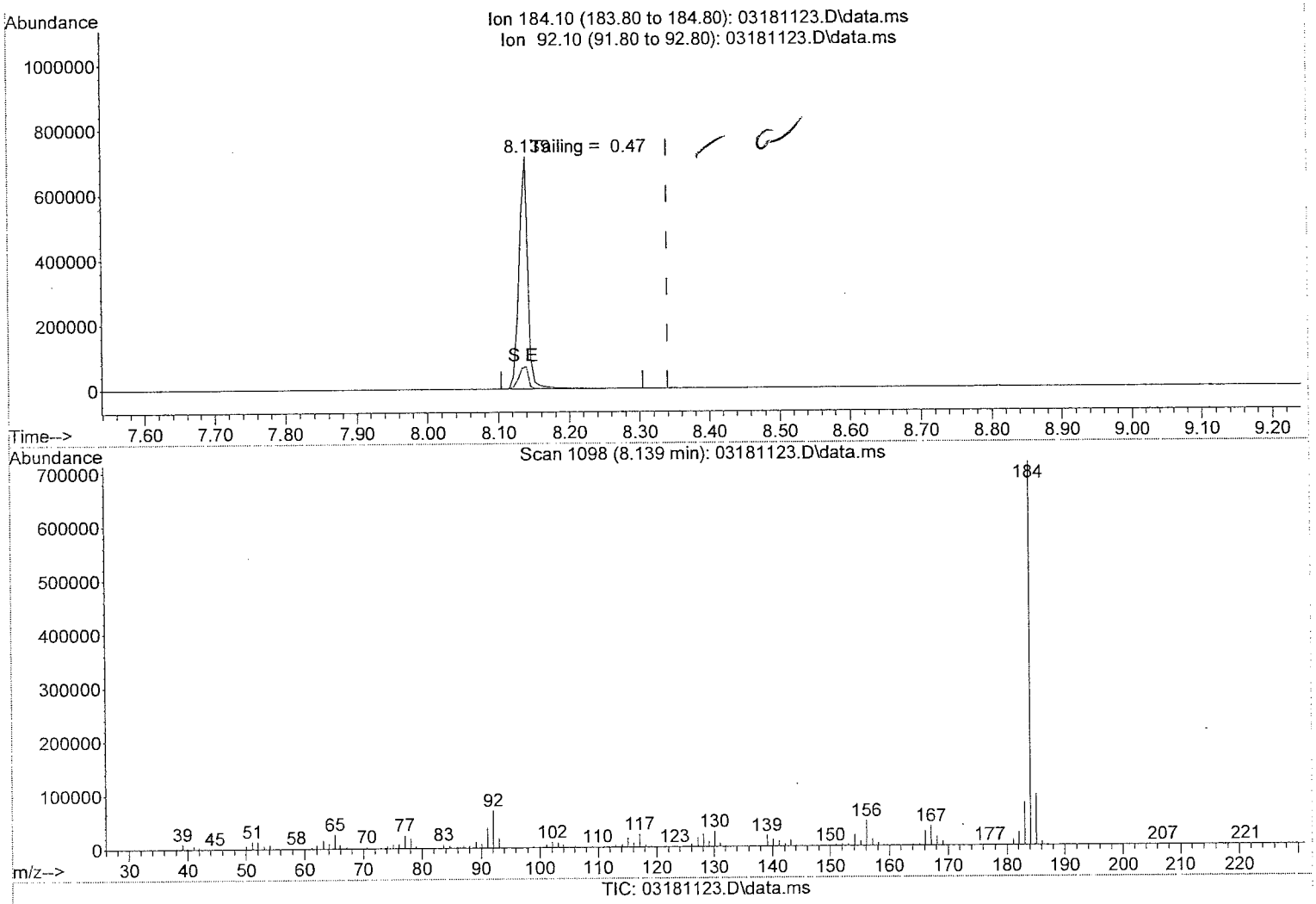
AutoFind: Scans 949, 950, 951; Background Corrected with Scan 944

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	54736	PASS
68	69	0.00	2	1.6	763	PASS
69	198	0.00	100	42.0	46636	PASS
70	69	0.00	2	0.4	205	PASS
127	198	40	60	47.2	52344	PASS
197	198	0.00	1	0.4	393	PASS
198	198	100	100	100.0	110938	PASS
199	198	5	9	6.6	7357	PASS
275	198	10	30	21.1	23389	PASS
365	198	1	100	2.6	2859	PASS
441	443	0.01	100	83.0	15396	PASS
442	198	40	100	89.8	99621	PASS
443	442	17	23	18.6	18549	PASS

Quantitation Report (Qedit)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181123.D
Acq On : 18 Mar 2011 6:15 pm
Operator : CL/AC
Sample : 25ng tune std pu01447
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 21 13:47:24 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥TUNE8270.M
Quant Title : DFTPP,TAILING EVA.:ACID<5.0,BN<3.0,DEG.<=20%
QLast Update : Thu Feb 17 11:44:41 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥091010A¥09101002.D



(2) Benzidine

8.139min (-0.200) 7.61

response 597275

Ion	Exp%	Act%
184.10	100	100
92.10	10.20	10.79
0.00	0.00	0.00
0.00	0.00	0.00

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181125.D
Acq On : 18 Mar 2011 7:04 pm
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 20 10:32:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.757	96	270295	20.00 ug/mL	0.01
3) 1,4-Dichlorobenzene-d4	5.992	152	228380	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	384960	9.41 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.810	88	144779	10.53 ug/mL	97
4) 1,4-Dichlorobenzene	6.010	146	396374	10.56 ug/mL	100
5) N-Nitrosodi-n-propylamine	6.328	70	266444	9.76 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

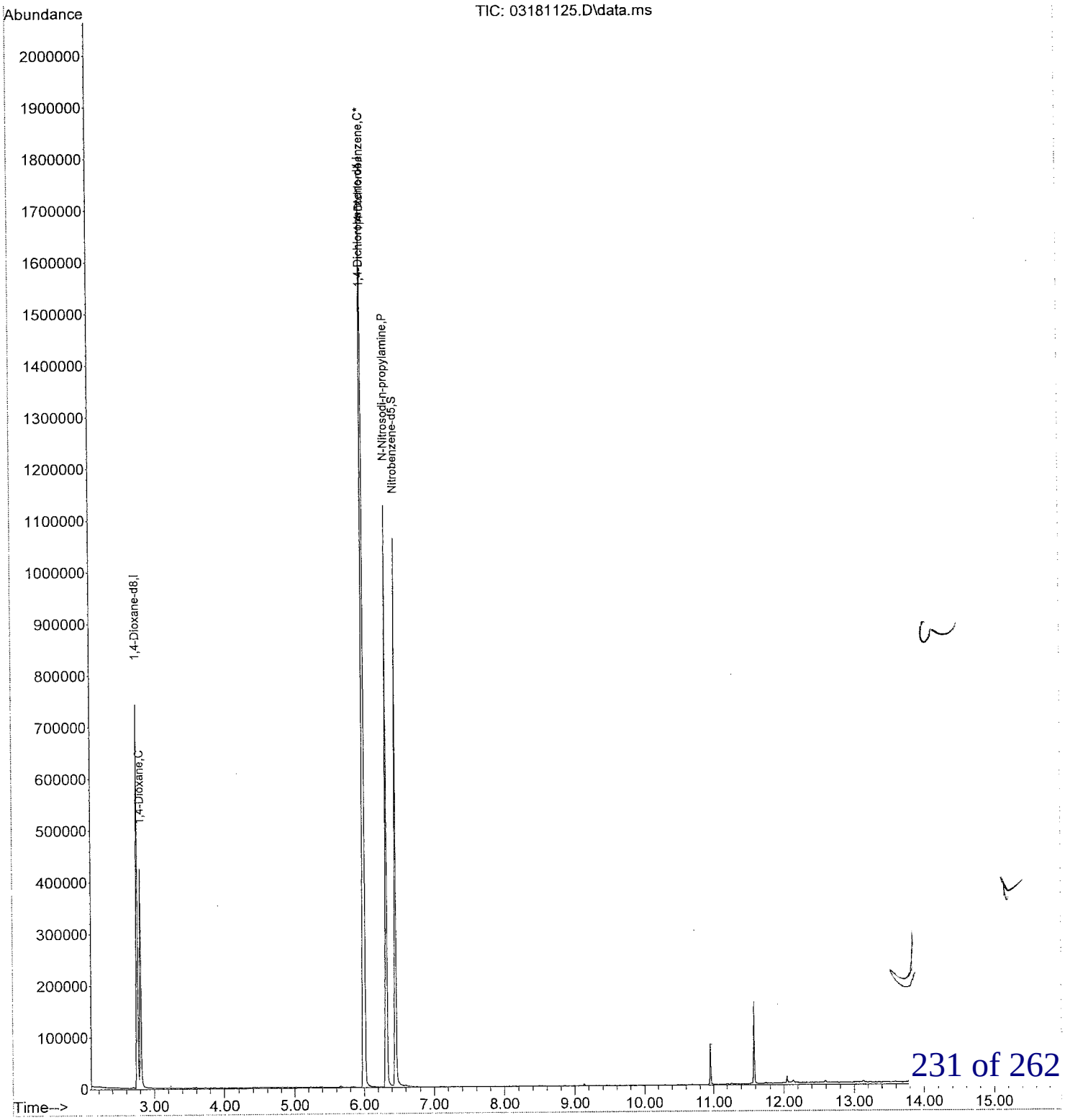
3-21-11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181125.D
Acq On : 18 Mar 2011 7:04 pm
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 20 10:32:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\
Method File : 010511D.M
Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
Last Update : Mon Feb 28 10:27:25 2011
Response Via : Initial Calibration

Total Cpnds : 6

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	1,4-Dioxane-d8	96	2.746	1.000	A	1	A	B
2 C	1,4-Dioxane	88	2.793	1.017	A	2	A	B
3 I	1,4-Dichlorobenzene-d4	152	6.010	1.000	A	0	A	B
4 C*	1,4-Dichlorobenzene	146	6.028	1.003	A	1	A	B
5 P	N-Nitrosodi-n-propylamine	70	6.345	1.056	A	1	A	B
6 S	Nitrobenzene-d5	82	6.481	1.078	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

)10511D.M Sun Mar 20 10:33:59 2011

3-21-11

3/21/11

Evaluate Continuing Calibration Report

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181125.D
Acq On : 18 Mar 2011 7:04 pm
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 20 10:32:56 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 40% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 400%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dioxane-d8	1.000	1.000	0.0	83	0.01
2 C	1,4-Dioxane	1.018	1.071	-5.2	84	0.02
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	-0.02
4 C*	1,4-Dichlorobenzene	1.644	1.736	-5.6	98	-0.02
5 P	N-Nitrosodi-n-propylamine	1.195	1.167	2.3	87	-0.02
6 S	Nitrobenzene-d5	1.792	1.686	5.9	85	-0.02

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

6-3-21-11

CW 03221

3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03181125.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 19:04
Misc Info CCV
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\
DIOX010511.M

	CCV RESPONSE	**ICAL** RESPONSE	0.5X	2X	**PASS/FAIL**
Internal Standard					
1,4-Dichlorobenzene-d4	228380	243008	121504	486016	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	6.09	5.59	6.59	<-PASS

G 4-21-11

3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03181125.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 19:04
Misc Info CCV
Instrument Name GCMS14

10ug/mL PU00063
01051110.D
D:\msdchem\1\GCMS14\DATA\010511\

	NAME	RT	CCV RRT Value (Target/IS)	mid-RT 010511.M	AGREE -0.06	AGREE 0.06	PASS/FAIL
IS	1,4-Dioxane-d8	2.757					
	1,4-Dioxane	2.810	1.0192	1.0178	0.9578	1.0778	<-PASS
IS	1,4-Dichlorobenzene-d4	5.992					
	1,4-Dichlorobenzene	6.010	1.0029	1.0019	0.9419	1.0619	<-PASS
	N-Nitrosodi-n-propylamine	6.328	1.0560	1.0541	0.9941	1.1141	<-PASS
	Nitrobenzene-d5	6.463	1.0785	1.0763	1.0163	1.1363	<-PASS

a-3-21-4

3/21/11

Sample Name 10ug/mL 14-diox-01520
Data File Name 03181125.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 19:04
Misc Info CCV
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181125.D
D:\MSDCHEM\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	228380	228380	114190	456760	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

Daily update

03-21-11

3/21/11

03221

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181125.D
Acq On : 18 Mar 2011 7:04 pm
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 21 14:19:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	228380	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.757	96	270337	20.00 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

update

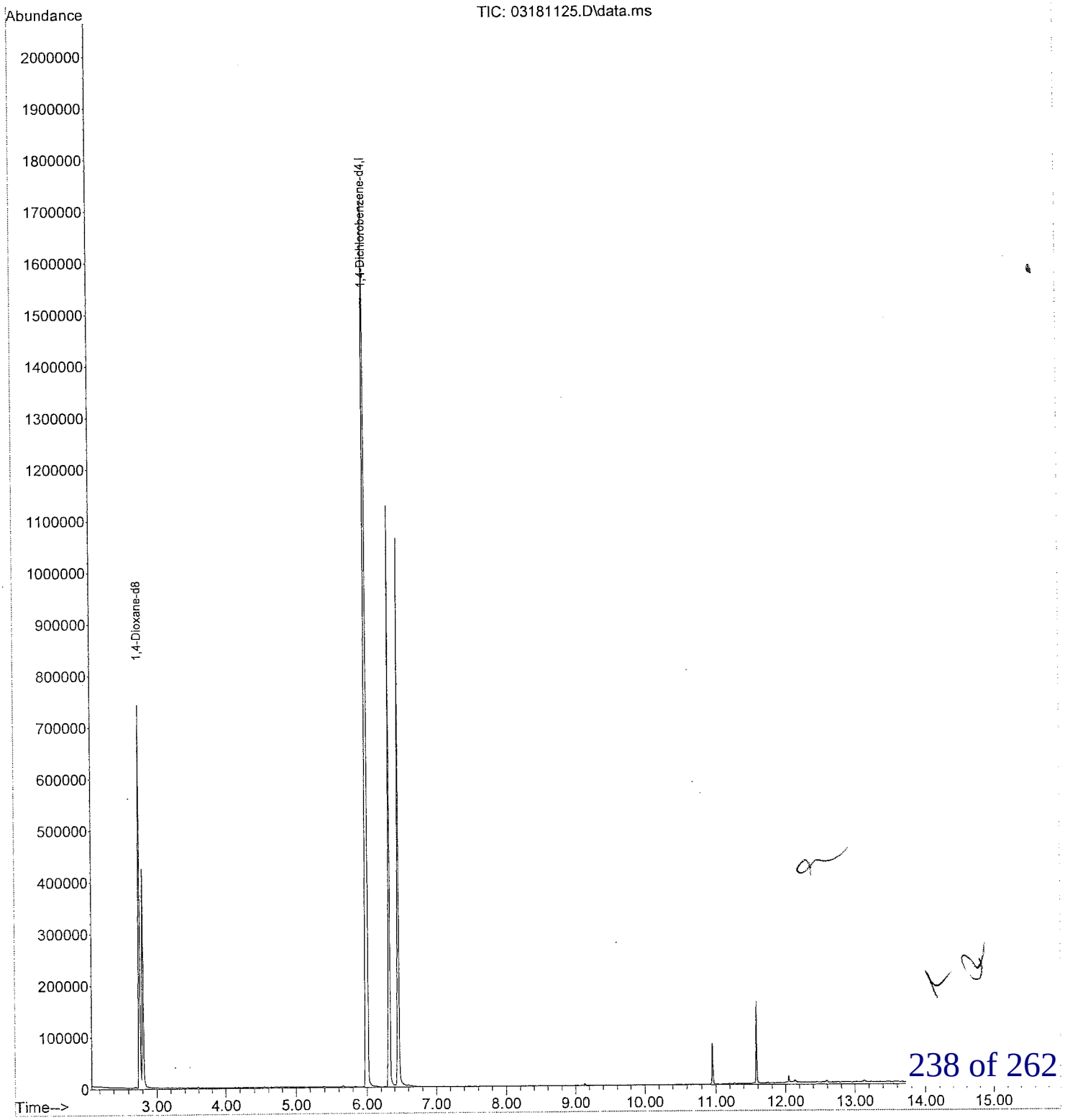
a 3-21-11

3/21/11

Quantitation Report (QT Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181125.D
Acq On : 18 Mar 2011 7:04 pm
Operator : CL/AC
Sample : 10ug/mL 14-diox-01520
Misc : CCV
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 21 14:19:31 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D



Calibration Status Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031811B_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 14:18:58 2011
Response Via : Continuing Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	20	10	D:\msdchem\1\GCMS14\DATA\031811\03181125.D
2	CC	20	10	D:\msdchem\1\GCMS14\DATA\031811\03181125.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Mar 21 14:18 2011	Mar 21 14:18 2011	18 Mar 2011 7:04 pm
2	CC	Mar 21 14:18 2011	Mar 21 14:18 2011	18 Mar 2011 7:04 pm

031811B_D8.M Mon Mar 21 14:19:10 2011

03-21-11

3/21/11

Compound List Report GCMS14

Method Path : D:\msdchem\1\GCMS14\METHODS\14DIOXD8\
Method File : 031811B_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 14:18:58 2011
Response Via : Continuing Calibration

Total Cpnds : 2

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	1,4-Dichlorobenzene-d4	152	5.992	1.000	A	0	A	B
2	1,4-Dioxane-d8	96	2.757	0.460	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

031811B_D8.M Mon Mar 21 14:19:17 2011

3/21/11

3/21/11

3/21/11

Response Factor Report GCMS14

Method Path : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥
Method File : 031811B_D8.M
Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
Last Update : Mon Mar 21 14:18:58 2011
Response Via : Continuing Calibration

Calibration Files
1 =03181125.D

Compound	1	Avg	%RSD
1) I 1,4-Dichlorobenzen...	ISTD		
2) 1,4-Dioxane-d8	0.592	0.592	0.00

(#) = Out of Range

a 3-21-11

a 3/22/11

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181126.D
Acq On : 18 Mar 2011 7:31 pm
Operator : CL/AC
Sample : 11C0675-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 20 10:35:22 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

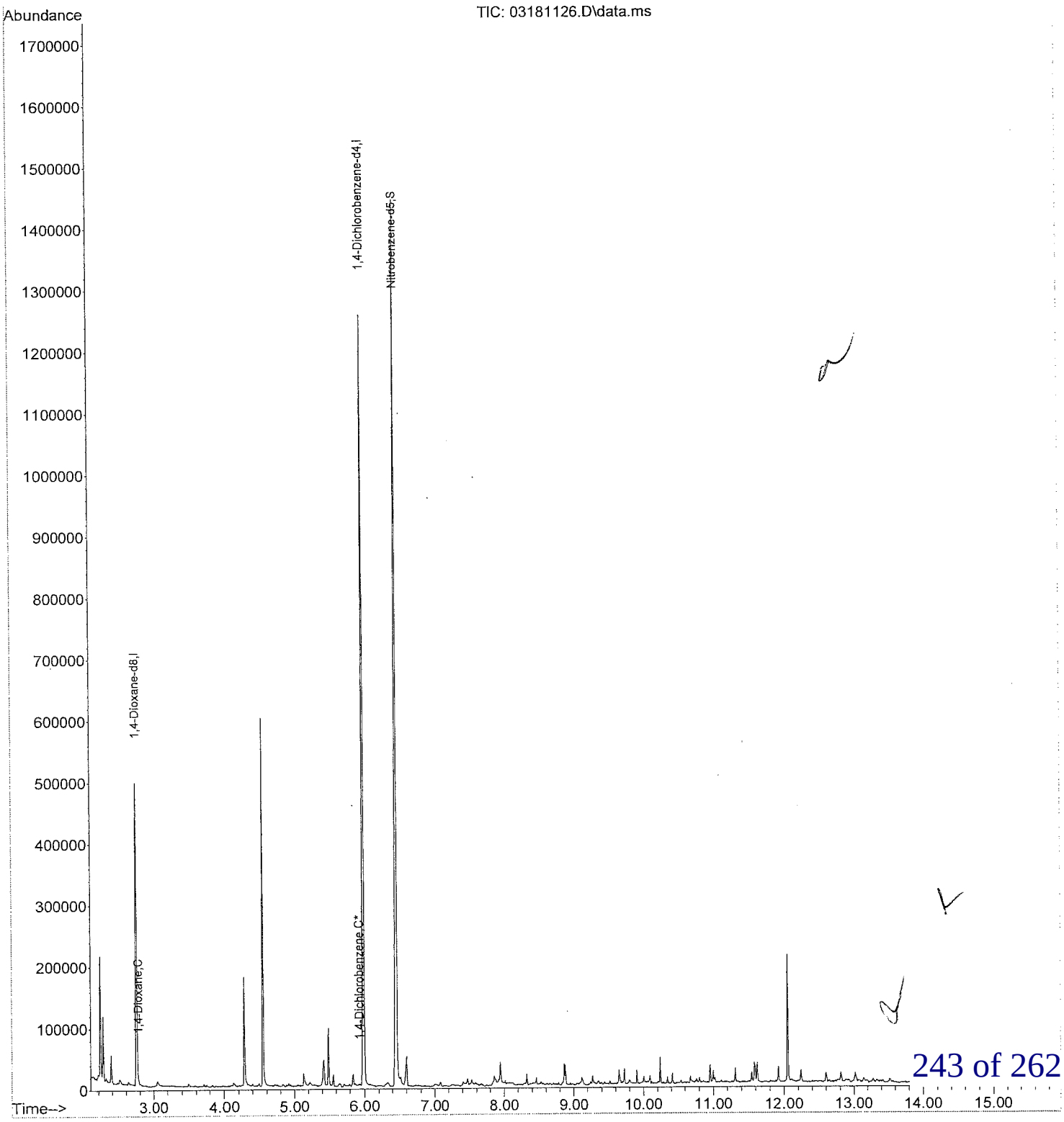
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.745	96	186826	20.00 ug/mL	0.00
3) 1,4-Dichlorobenzene-d4	5.992	152	212928	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	617971	16.20 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.781	88	190	0.02 ug/mL#	5
4) 1,4-Dichlorobenzene	5.939	146	300	0.01 ug/mL	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181126.D
Acq On : 18 Mar 2011 7:31 pm
Operator : CL/AC
Sample : 11C0675-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 20 10:35:22 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0675-BLK1
Data File Name 03181126.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 19:31
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181125.D
D:\MSDCHEM\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	212928	228380	114190	456760	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

Quantitation Report (Not Reviewed)

GB 3-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181126.D
Acq On : 18 Mar 2011 7:31 pm
Operator : CL/AC
Sample : 11C0675-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 21 14:20:14 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	212928	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.745	96	186826	14.82 ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

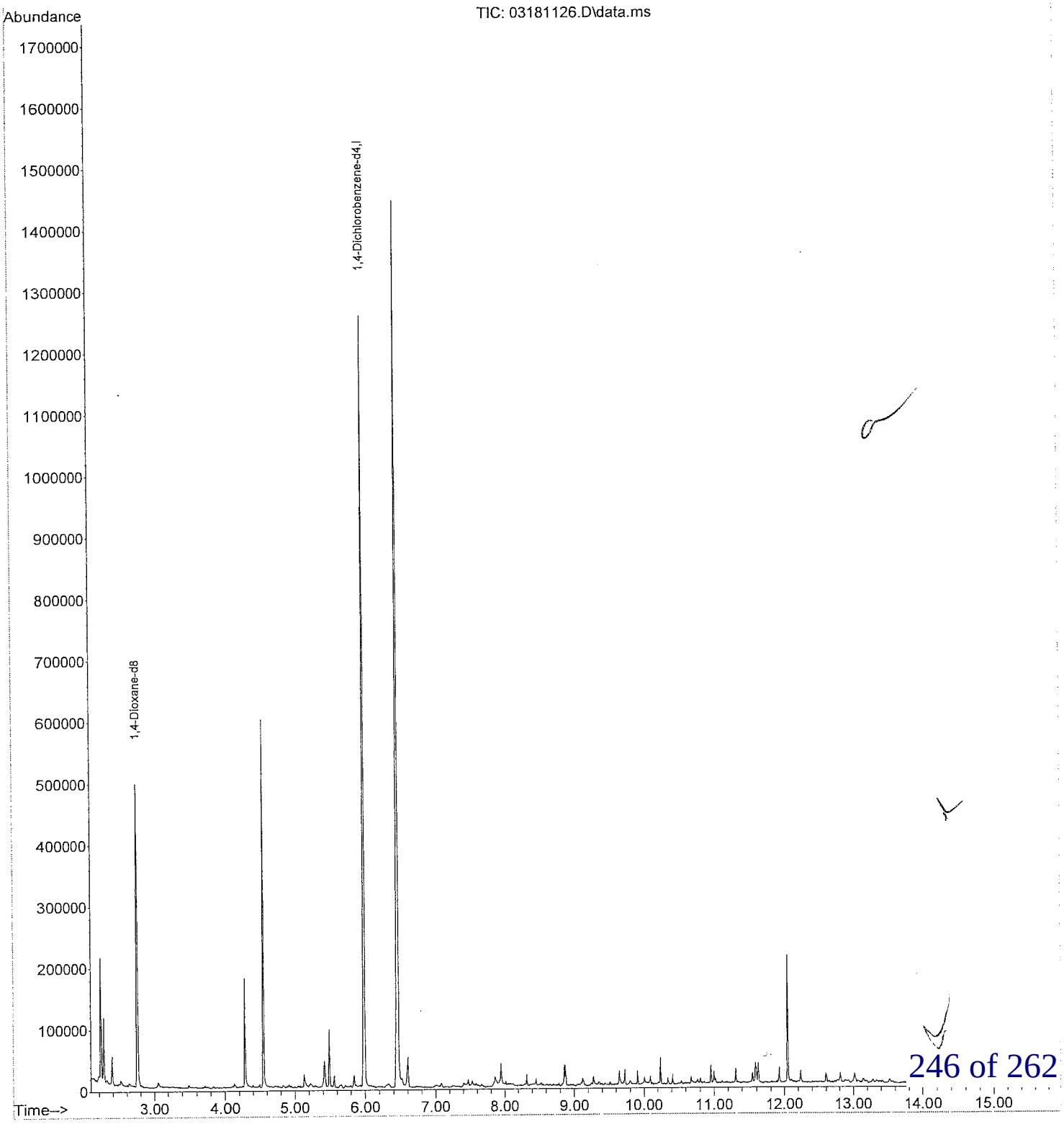
3/21/11

3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181126.D
Acq On : 18 Mar 2011 7:31 pm
Operator : CL/AC
Sample : 11C0675-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 21 14:20:14 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D



Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181127.D
Acq On : 18 Mar 2011 7:58 pm
Operator : CL/AC
Sample : 11C0675-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 10:35:27 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

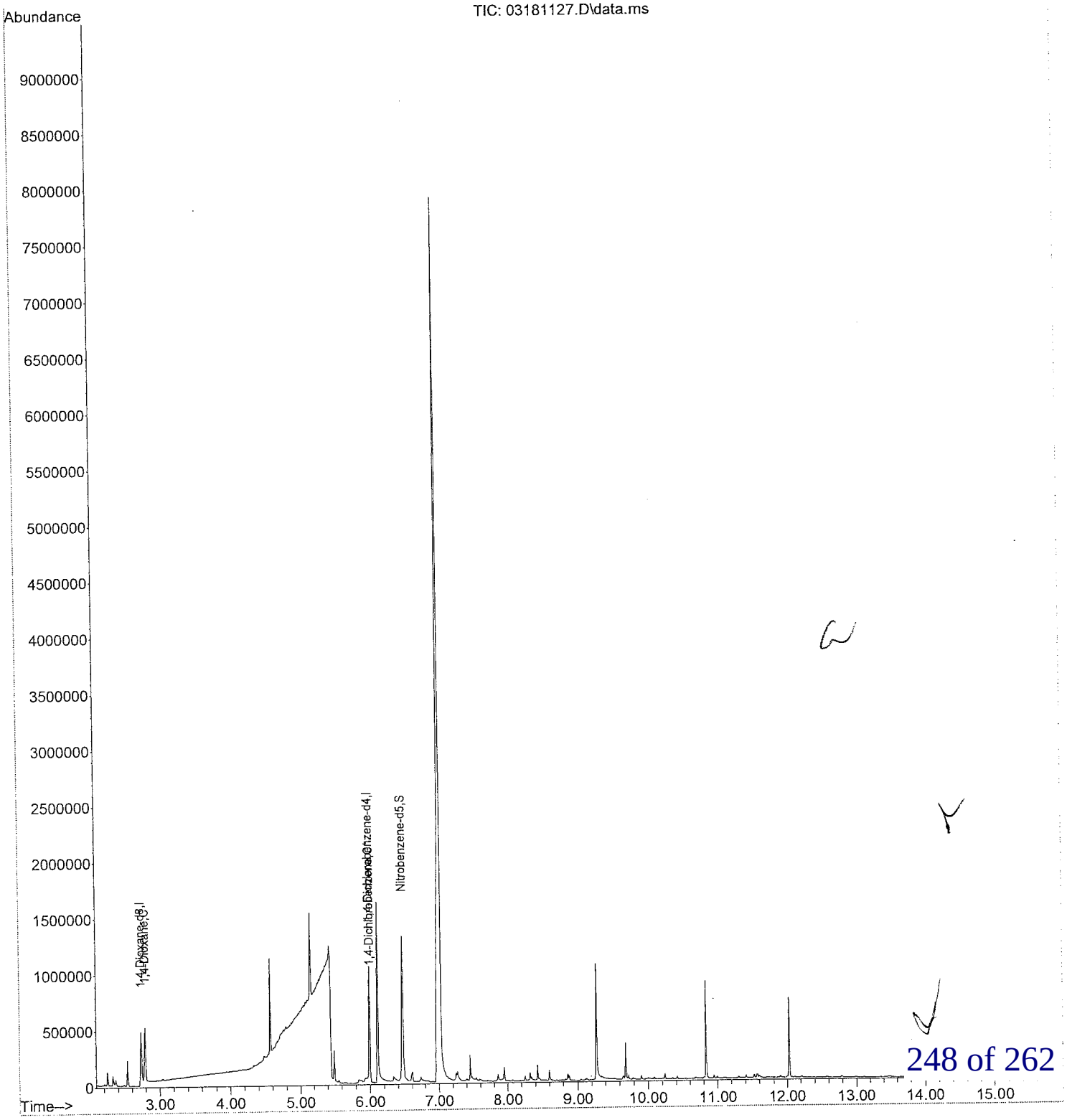
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.734	96	178631	20.00 ug/mL	-0.01
3) 1,4-Dichlorobenzene-d4	5.993	152	172409	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	604317	19.56 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.793	88	187156	20.59 ug/mL	92
4) 1,4-Dichlorobenzene	6.004	146	302	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181127.D
Acq On : 18 Mar 2011 7:58 pm
Operator : CL/AC
Sample : 11C0675-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 10:35:27 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



010511D.M Sun Mar 20 10:35:30 2011

Sample Name 11C0675-BS1
Data File Name 03181127.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 19:58
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181125.D
D:\MSDCHEM\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	172409	228380	114190	456760	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181127.D
Acq On : 18 Mar 2011 7:58 pm
Operator : CL/AC
Sample : 11C0675-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 21 14:20:19 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D

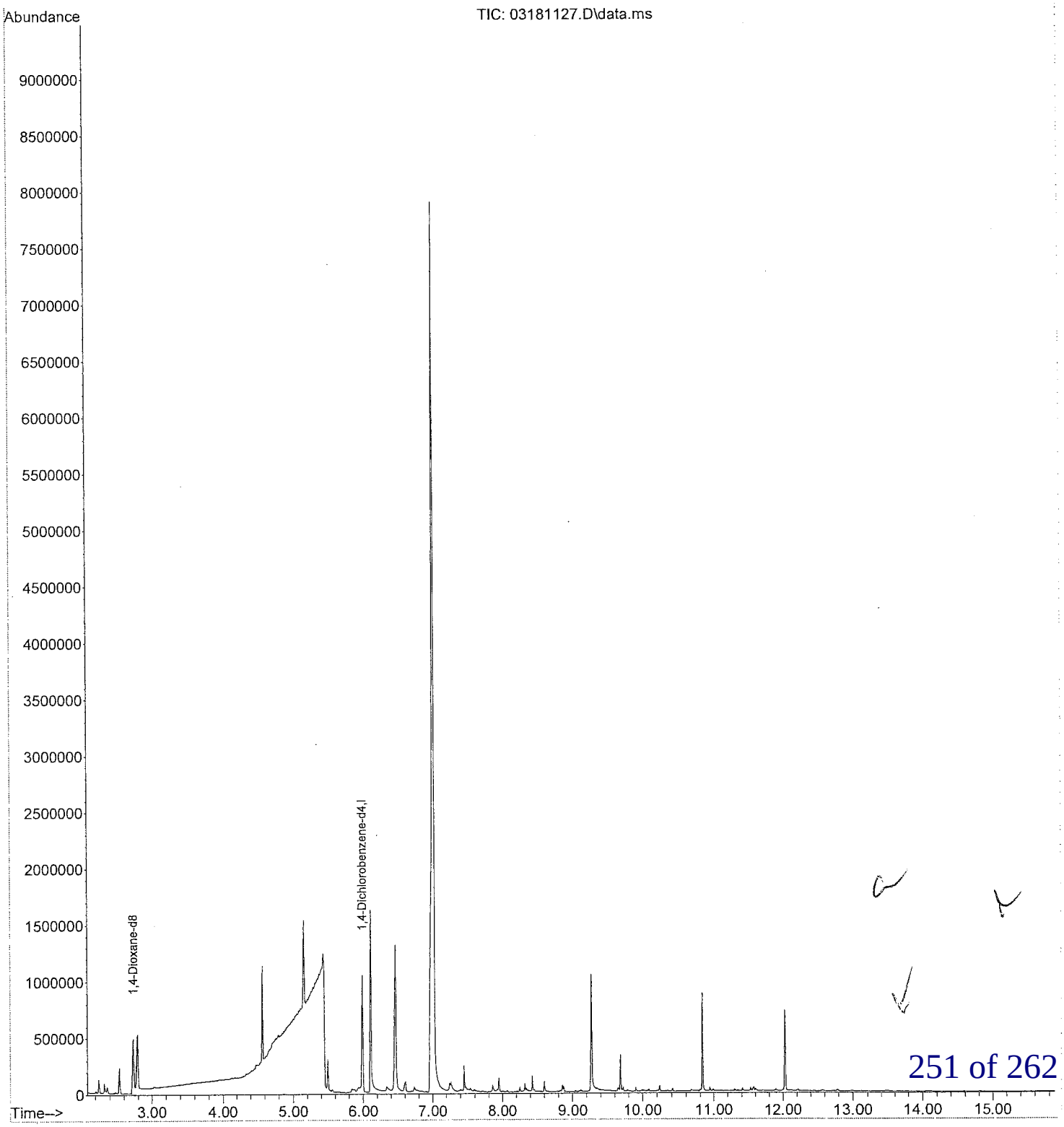
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.993	152	172409	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.734	96	178631	17.51 ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181127.D
Acq On : 18 Mar 2011 7:58 pm
Operator : CL/AC
Sample : 11C0675-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 21 14:20:19 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D



Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181128.D
Acq On : 18 Mar 2011 8:24 pm
Operator : CL/AC
Sample : 11C0675-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 20 10:35:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

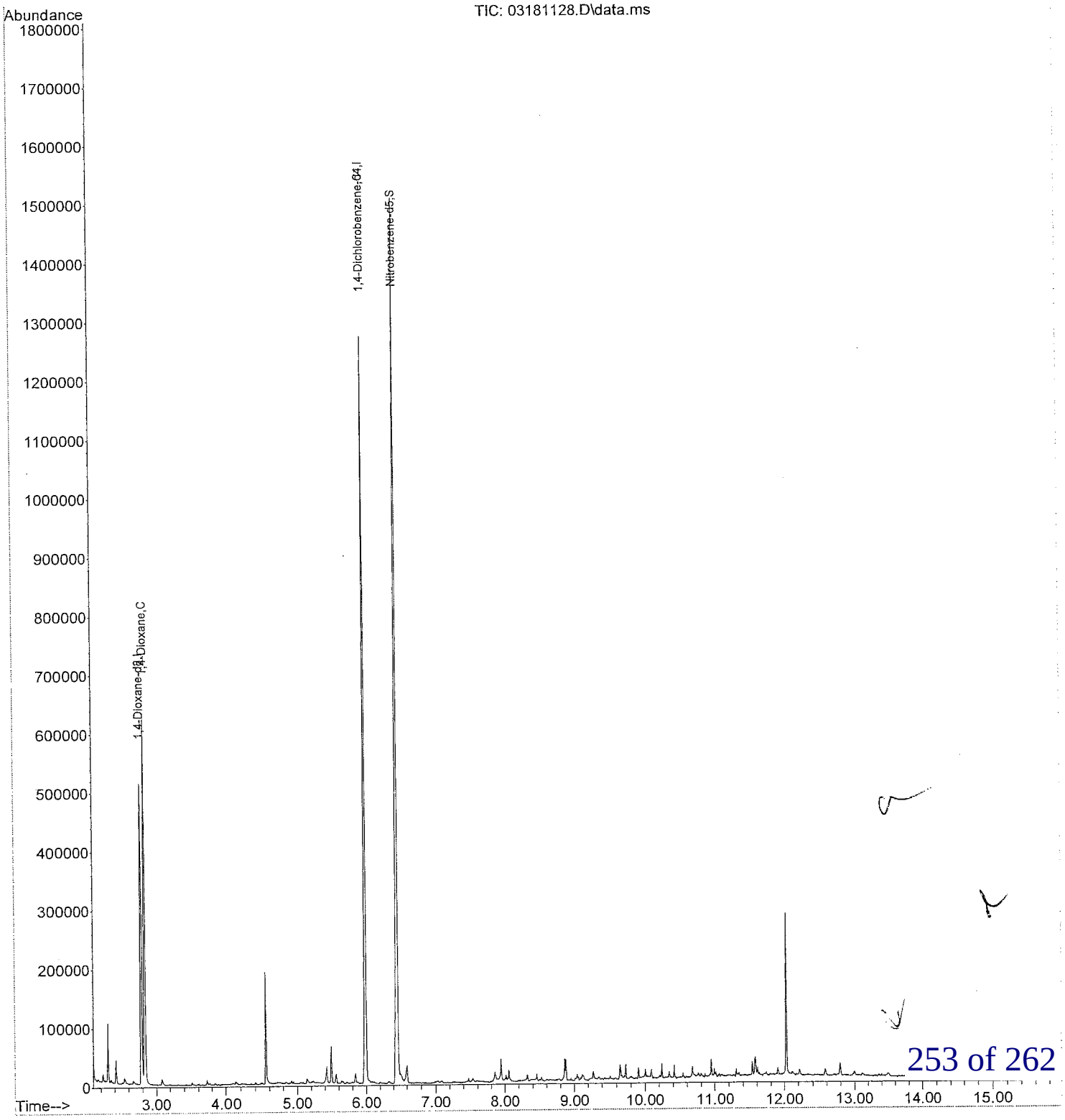
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.781	96	195208	20.00 ug/mL	0.04
3) 1,4-Dichlorobenzene-d4	5.992	152	233794	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	708558	16.91 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.834	88	204540	20.59 ug/mL	96
4) 1,4-Dichlorobenzene	5.986	146	401	0.01 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181128.D
Acq On : 18 Mar 2011 8:24 pm
Operator : CL/AC
Sample : 11C0675-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 20 10:35:32 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration



Sample Name 11C0675-BSD1
Data File Name 03181128.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 20:24
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181125.D
D:\MSDCHEM\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	233794	228380	114190	456760	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

3/21/11

3/20/2011 10:38 AM

Quantitation Report (Not Reviewed)

03-21-11

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181128.D
Acq On : 18 Mar 2011 8:24 pm
Operator : CL/AC
Sample : 11C0675-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 14:20:23 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	233794	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.781	96	195208	14.11 ug/mL	100

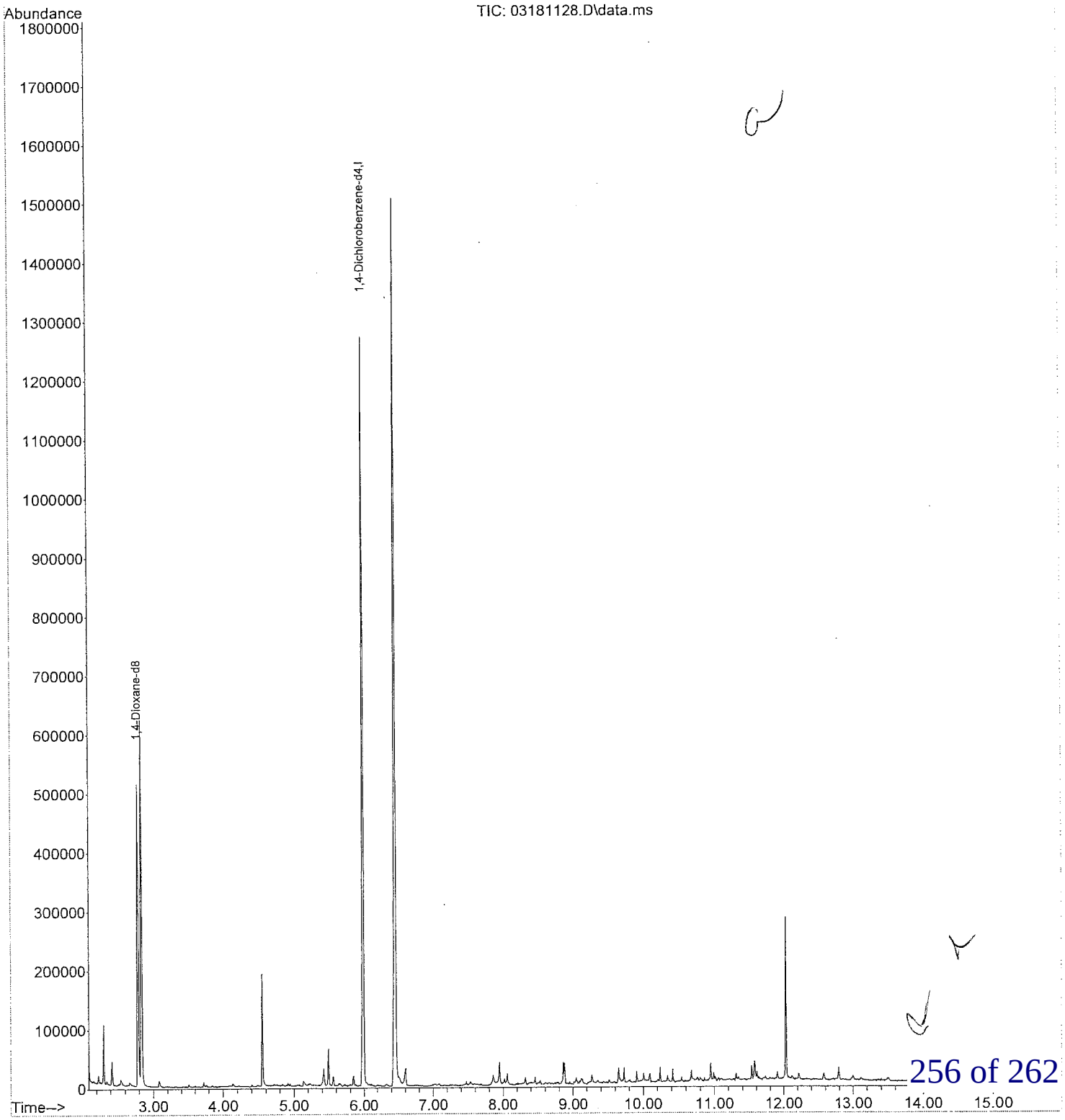
(#) = qualifier out of range (m) = manual integration (+) = signals summed

3/21/11

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181128.D
Acq On : 18 Mar 2011 8:24 pm
Operator : CL/AC
Sample : 11C0675-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 21 14:20:23 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D



Quantitation Report (Not Reviewed)

03-21-11

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181133.D
Acq On : 18 Mar 2011 10:36 pm
Operator : CL/AC
Sample : PUC1113-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 20 10:35:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane-d8	2.798	96	175141	20.00 ug/mL	0.05
3) 1,4-Dichlorobenzene-d4	5.992	152	222205	10.00 ug/mL	-0.02
System Monitoring Compounds					
6) Nitrobenzene-d5	6.463	82	623135	15.65 ug/mL	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	2.851	88	20380	2.29 ug/mL	84
4) 1,4-Dichlorobenzene	5.998	146	554	0.02 ug/mL#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

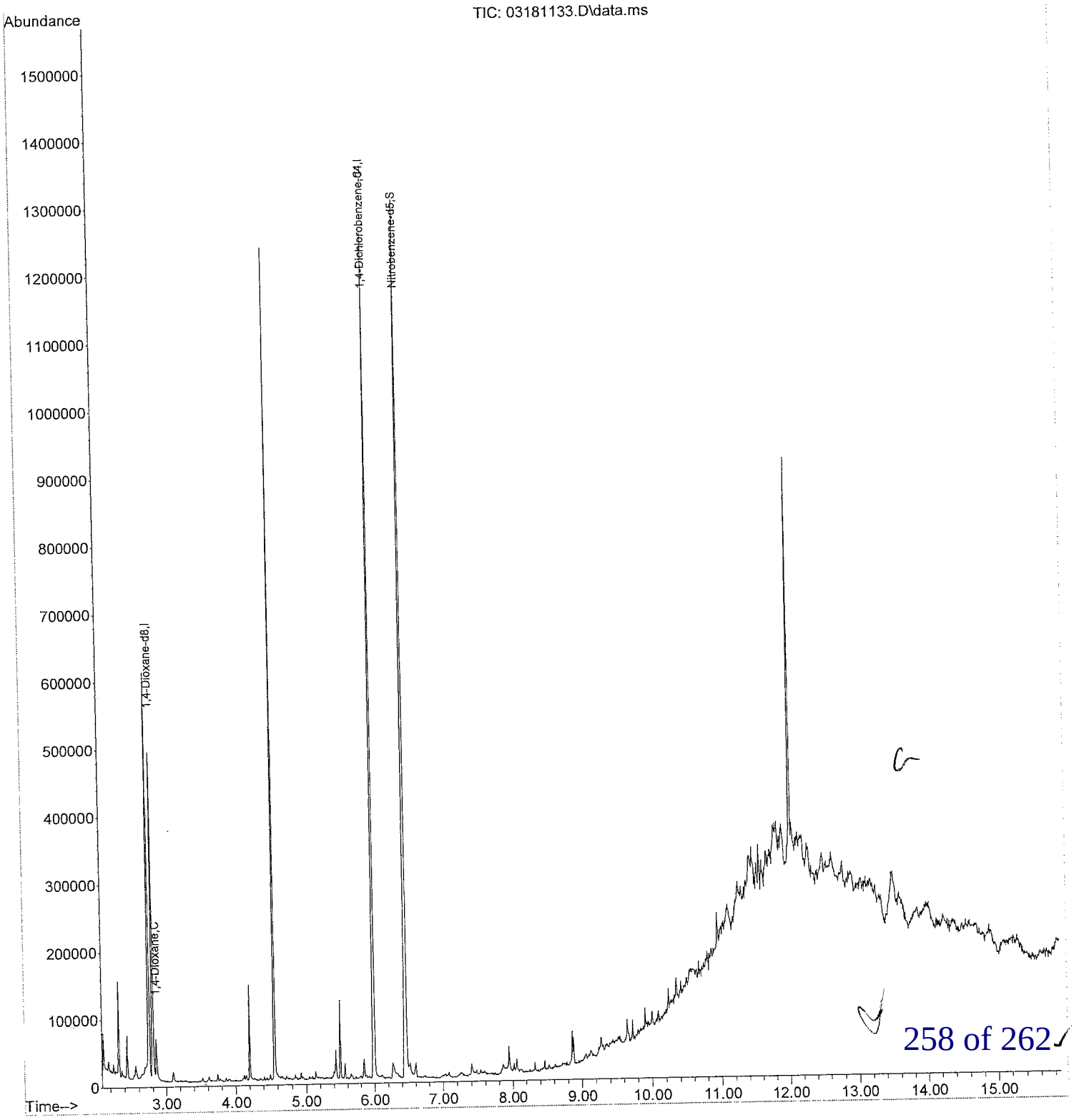
M 3/22/11

3/22/11

Quantitation Report (Not Reviewed)

Data Path : D:¥MSDCHEM¥1¥GCMS14¥DATA¥031811¥
Data File : 03181133.D
Acq On : 18 Mar 2011 10:36 pm
Operator : CL/AC
Sample : PUC1113-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

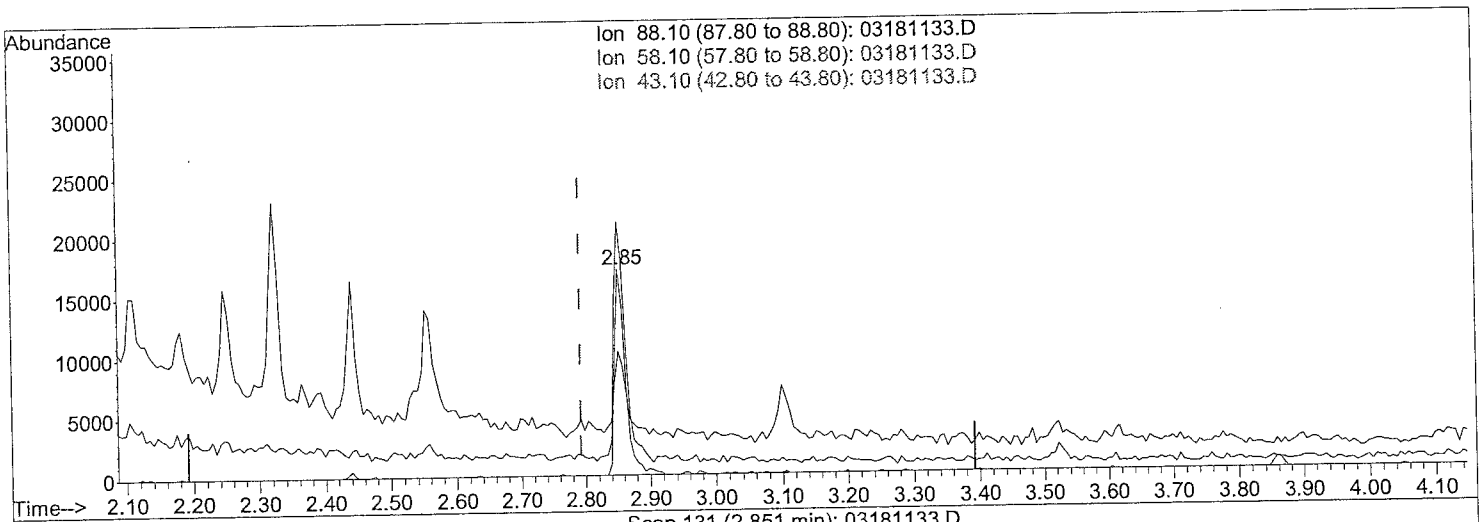
Quant Time: Mar 20 10:35:57 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXANE¥010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration

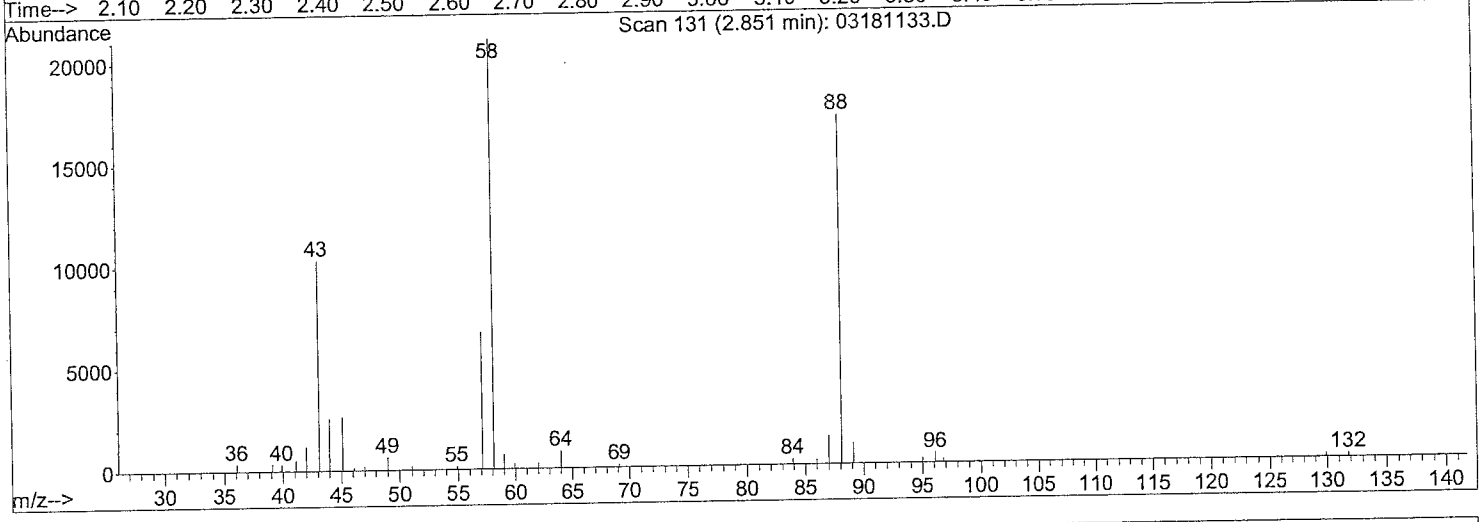


Quantitation Report (Qedit)

Data Path : N:\DATA\031811\
Data File : 03181133.D
Acq On : 18 Mar 2011 10:36 pm
Operator : CL/AC
Sample : PUC1113-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 20 10:35:57 2011
Quant Method : D:\msdchem\1\GCMS14\METHODS\14DIOXANE\010511D.M
Quant Title : GCMS14/ MODIFIED 8270(1,4-DIOXANE) CALIBRATION
QLast Update : Mon Feb 28 10:27:25 2011
Response via : Initial Calibration





TIC: 03181133.D

(2) 1,4-Dioxane (C)

2.851min (+0.059) 2.29ug/mL

response 20380

Ion	Exp%	Act%
88.10	100	100
58.10	112.80	127.62
43.10	35.80	49.07
0.00	0.00	0.00

a7.21-1

3/22/11

Sample Name PUC1113-01
Data File Name 03181133.D
Data File Path D:\MSDCHEM\1\GCMS14\DATA\031811\
Operator CL/AC
Date Acquired 3/18/2011 22:36
Misc Info
Instrument Name GCMS14

10ug/mL 14-diox-01520
03181125.D
D:\MSDCHEM\1\GCMS14\DATA\031811\

	SAMPLE RESPONSE	CCV RESPONSE	0.5X	2X	PASS/FAIL
Internal Standard					
1,4-Dichlorobenzene-d4	222205	228380	114190	456760	<-PASS

Internal Standard	RT	RT	-0.5min.	+0.5min	
1,4-Dichlorobenzene-d4	5.99	5.99	5.49	6.49	<-PASS

5/22/11

Quantitation Report (Not Reviewed)

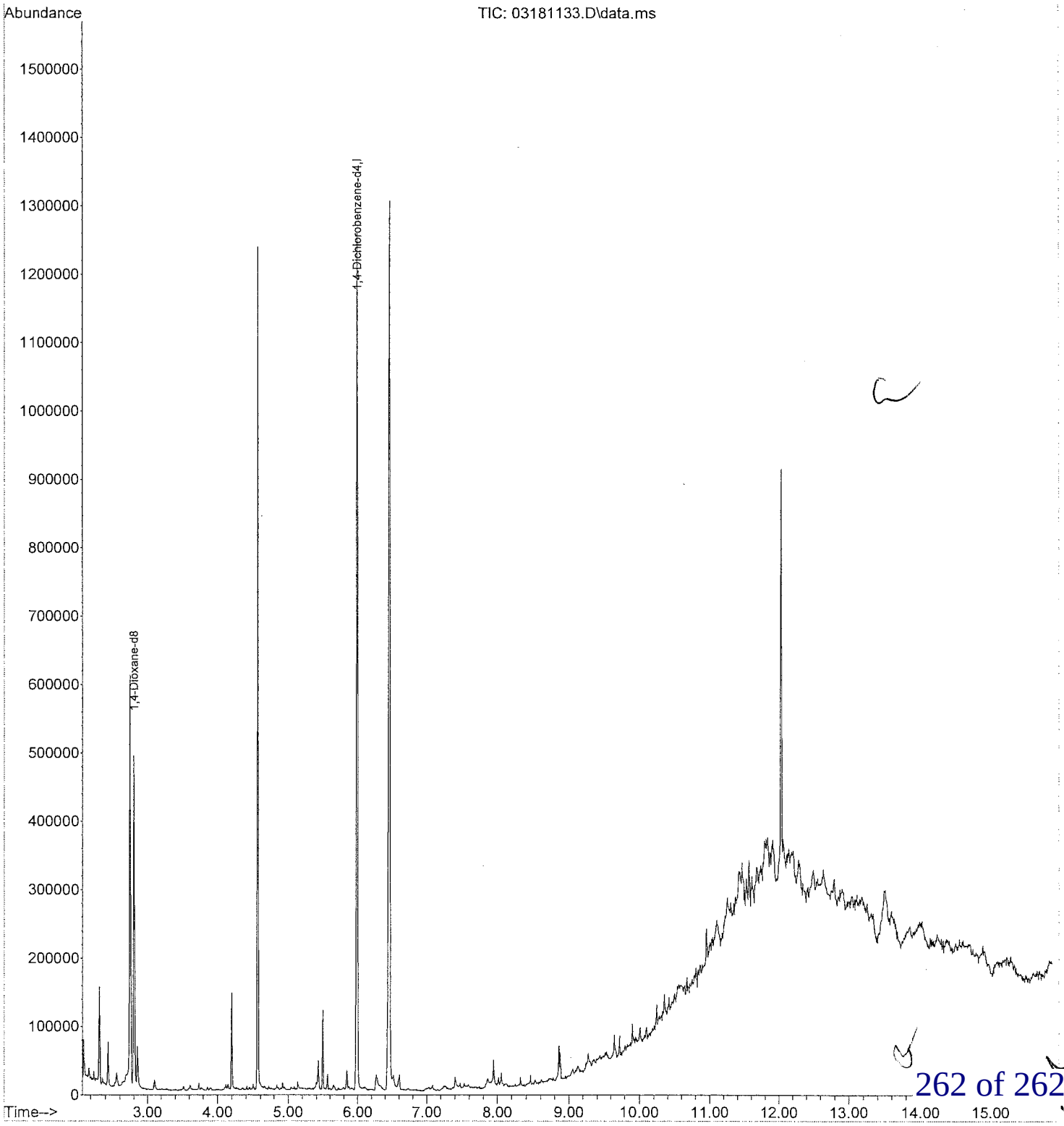
Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181133.D
Acq On : 18 Mar 2011 10:36 pm
Operator : CL/AC
Sample : PUC1113-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 21 14:20:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.992	152	222205	10.00 ug/mL	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane-d8	2.798	96	175444	13.34 ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : D:¥msdchem¥1¥GCMS14¥DATA¥031811¥
Data File : 03181133.D
Acq On : 18 Mar 2011 10:36 pm
Operator : CL/AC
Sample : PUC1113-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 21 14:20:44 2011
Quant Method : D:¥msdchem¥1¥GCMS14¥METHODS¥14DIOXD8¥031811B_D8.M
Quant Title : GCMS14/1,4-DIOXANE-D8 SURROGATE ONLY
QLast Update : Mon Mar 21 14:18:58 2011
Response via : Continuing Cal File: D:¥msdchem¥1¥GCMS14¥DATA¥031811¥03181125.D