Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145752.D
Acq On : 2 Apr 2014 3:29 pm
Operator : thomass1
Sample : IC6216-10
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:15:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.94	65	72338	500.00 ug/L	-0.01
5) pentafluorobenzene	10.40	168	172976	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	254083	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	215267	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.52	152	108811	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	12669	8.08 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 16.16%#		
47) 1,2-dichloroethane-d4 (s)	10.88	65	13981	7.91 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 15.82%#		
76) toluene-d8 (s)	12.93	98	43898	8.10 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 16.20%#		
100) 4-bromofluorobenzene (s)	15.44	95	17076	8.25 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 16.50%#		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.08	59	7087	42.63 ug/L	99
3) Ethanol	6.58	45	12643	1246.01 ug/L	97
4) 1,4-dioxane	12.04	88	2934	213.61 ug/L #	97
7) chlorodifluoromethane	4.21	51	11794	7.93 ug/L	95
8) dichlorodifluoromethane	4.19	85	21560	9.92 ug/L	97
10) chloromethane	4.54	50	24327	9.52 ug/L	95
11) vinyl chloride	4.82	62	23523	9.86 ug/L	98
12) bromomethane	5.53	94	15353	9.80 ug/L	99
13) chloroethane	5.73	64	10705	9.72 ug/L	97
14) trichlorofluoromethane	6.26	101	23734	9.61 ug/L	97
16) ethyl ether	6.70	74	9047	9.57 ug/L	95
18) acrolein	6.99	56	31456	90.26 ug/L	97
19) 1,1-dichloroethene	7.17	96	15426	9.37 ug/L	99
20) acetone	7.25	43	4171	9.04 ug/L	85
21) allyl chloride	7.77	76	9082	9.35 ug/L	96
22) acetonitrile	7.74	40	11839	85.70 ug/L #	55
23) iodomethane	7.48	142	29187	9.49 ug/L	98
24) iso-butyl alcohol	10.95	74	5108	98.02 ug/L #	90
25) carbon disulfide	7.62	76	52919	9.22 ug/L	99
26) methylene chloride	7.99	84	18016	9.39 ug/L	96
27) methyl acetate	7.77	74	2065	7.91 ug/L #	83
28) methyl tert butyl ether	8.35	73	49741	9.39 ug/L	99
29) trans-1,2-dichloroethene	8.40	96	17131	9.38 ug/L	91
30) di-isopropyl ether	9.02	45	45551	8.32 ug/L	98
31) 2-butanone	9.81	72	1575	8.22 ug/L	91
32) 1,1-dichloroethane	9.02	63	29680	9.25 ug/L	96
33) chloroprene	9.14	53	20465	8.11 ug/L	99
34) acrylonitrile	8.35	53	28986	48.11 ug/L	96
35) vinyl acetate	9.03	86	2185	8.33 ug/L	78
36) ethyl tert-butyl ether	9.52	59	46638	8.31 ug/L	100
37) ethyl acetate	9.83	45	1661	8.47 ug/L	87
38) 2,2-dichloropropane	9.82	77	23014	9.26 ug/L	96
39) cis-1,2-dichloroethene	9.83	96	18737	9.42 ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145752.D
Acq On : 2 Apr 2014 3:29 pm
Operator : thomass1
Sample : IC6216-10
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:15:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
40) methylacrylate	9.91	85	2087	7.91 ug/L	69
41) propionitrile	9.91	54	22355	96.76 ug/L	97
42) bromochloromethane	10.17	128	9203	9.27 ug/L	88
43) tetrahydrofuran	10.21	42	5284	9.55 ug/L	93
44) chloroform	10.23	85	19332	9.07 ug/L	95
45) t-butyl formate	10.26	59	12495	8.07 ug/L #	86
48) freon 113	7.14	151	10165	8.11 ug/L	97
49) methacrylonitrile	10.10	41	9604	9.81 ug/L	95
50) 1,1,1-trichloroethane	10.49	97	25501	9.49 ug/L	98
51) Cyclohexane	10.56	84	23750	9.43 ug/L	84
53) epichlorohydrin	12.57	57	6438	42.26 ug/L	97
54) n-butyl alcohol	11.48	56	17235	409.14 ug/L	98
55) carbon tetrachloride	10.70	117	23461	9.49 ug/L	96
56) 1,1-dichloropropene	10.68	75	21927	9.18 ug/L	99
57) hexane	8.73	57	15897	8.25 ug/L	97
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	42592	8.14 ug/L #	99
60) benzene	10.95	78	66798	9.26 ug/L	100
61) tert-amyl methyl ether	10.99	87	10690	8.24 ug/L	97
62) heptane	11.13	57	8339	8.24 ug/L	99
63) isopropyl acetate	10.89	43	25287	8.37 ug/L	98
64) 1,2-dichloroethane	10.97	62	21549	9.54 ug/L	100
66) trichloroethene	11.67	95	16648	9.18 ug/L	96
68) methyl methacrylate	11.94	41	23717	9.33 ug/L	99
69) 2-nitropropane	12.43	41	5210	9.04 ug/L	97
70) 2-chloroethyl vinyl ether	12.45	63	32824	40.14 ug/L	97
71) 1,2-dichloropropane	11.93	63	16250	9.40 ug/L	93
72) dibromomethane	12.09	93	10476	9.68 ug/L	98
73) methylcyclohexane	11.88	83	21552	8.21 ug/L	99
74) bromodichloromethane	12.22	83	22719	9.35 ug/L	99
75) cis-1,3-dichloropropene	12.66	75	26995	9.23 ug/L	98
77) 4-methyl-2-pentanone	12.75	58	5845	9.33 ug/L	94
78) toluene	13.00	92	39627	9.14 ug/L	97
79) 3-methyl-1-butanol	12.78	55	11229	166.93 ug/L	95
80) trans-1,3-dichloropropene	13.19	75	24959	9.35 ug/L	96
81) ethyl methacrylate	13.19	69	20178	9.43 ug/L	96
82) 1,1,2-trichloroethane	13.40	83	12322	9.57 ug/L	98
83) 2-hexanone	13.56	58	5541	9.69 ug/L	100
85) tetrachloroethene	13.56	164	13979	9.61 ug/L	97
86) 1,3-dichloropropane	13.57	76	23857	9.42 ug/L	97
87) butyl acetate	13.63	56	8578	8.51 ug/L	99
88) 3,3-dimethyl-1-butanol	13.73	57	13421	84.22 ug/L	99
89) dibromochloromethane	13.82	129	17837	9.50 ug/L	98
90) 1,2-dibromoethane	13.96	107	15284	9.44 ug/L	99
91) chlorobenzene	14.39	112	43716	9.25 ug/L	98
92) 1,1,1,2-tetrachloroethane	14.45	131	16973	9.55 ug/L	98
93) ethylbenzene	14.44	91	74768	9.29 ug/L	100
94) m,p-xylene	14.54	106	55664	18.37 ug/L	99
95) o-xylene	14.93	106	27589	9.28 ug/L	91
96) styrene	14.94	104	47065	9.32 ug/L	99
97) bromoform	15.19	173	12163	9.34 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145752.D
Acq On : 2 Apr 2014 3:29 pm
Operator : thomass1
Sample : IC6216-10
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:15:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
99) isopropylbenzene	15.25	105	69778	9.18 ug/L	100
101) cyclohexanone	15.41	98	2697	59.84 ug/L	99
102) bromobenzene	15.62	156	19919	9.31 ug/L	97
103) 1,1,2,2-tetrachloroethane	15.54	83	19960	9.25 ug/L	98
104) trans-1,4-dichloro-2-buten	15.57	53	4369	9.53 ug/L	94
105) 1,2,3-trichloropropane	15.61	110	5005	9.68 ug/L	95
106) n-propylbenzene	15.63	120	17289	9.30 ug/L	92
107) 2-chlorotoluene	15.77	126	17109	9.23 ug/L	100
108) 4-chlorotoluene	15.86	126	17617	9.35 ug/L	94
109) 1,3,5-trimethylbenzene	15.77	105	58041	9.22 ug/L	98
110) tert-butylbenzene	16.09	119	48163	9.16 ug/L	99
111) pentachloroethane	16.17	167	12307	9.60 ug/L	97
112) 1,2,4-trimethylbenzene	16.13	105	57429	9.17 ug/L	99
113) sec-butylbenzene	16.29	105	73110	9.02 ug/L	99
114) 1,3-dichlorobenzene	16.47	146	35968	9.21 ug/L	99
115) p-isopropyltoluene	16.40	119	60983	9.05 ug/L	99
116) 1,4-dichlorobenzene	16.55	146	36149	9.01 ug/L	98
117) 1,2-dichlorobenzene	16.92	146	34592	9.12 ug/L	98
118) benzyl chloride	16.65	91	30722	8.20 ug/L	99
119) n-butylbenzene	16.79	92	30812	8.92 ug/L	94
120) 1,2-dibromo-3-chloropropan	17.67	75	3013	9.05 ug/L	99
121) 1,3,5-TRICHLOROBENZENE	17.86	180	27218	8.76 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	23545	9.01 ug/L	100
123) hexachlorobutadiene	18.61	225	12136	8.70 ug/L	97
124) naphthalene	18.78	128	51938	9.27 ug/L	98
125) 1,2,3-trichlorobenzene	19.02	180	21371	9.18 ug/L	97
126) hexachloroethane	17.17	201	11120	9.42 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

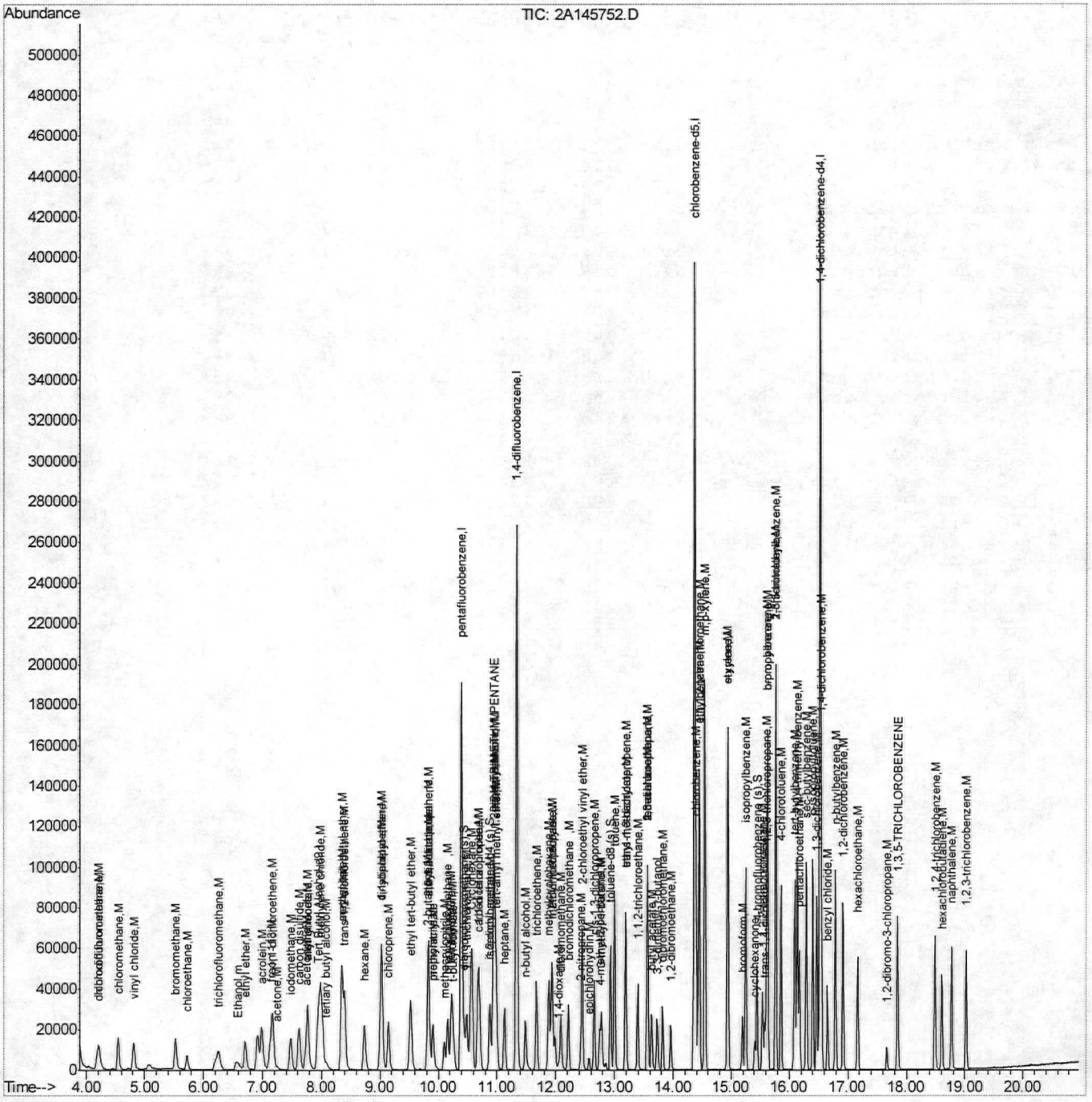
7.6.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145752.D
Acq On : 2 Apr 2014 3:29 pm
Operator : thomass1
Sample : IC6216-10
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:15:02 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66485

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145753.D
Acq On : 2 Apr 2014 3:59 pm
Operator : thomass1
Sample : IC6216-20
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.95	65	73352	500.00 ug/L	0.00
5) pentafluorobenzene	10.40	168	179446	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	262310	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	222787	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.52	152	113212	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	76886	47.26 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 94.52%		
47) 1,2-dichloroethane-d4 (s)	10.87	65	84630	46.18 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 92.36%		
76) toluene-d8 (s)	12.93	98	265493	47.44 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 94.88%		
100) 4-bromofluorobenzene (s)	15.44	95	103111	47.88 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 95.76%		
Target Compounds					Qvalue
2) tertiary butyl alcohol	8.09	59	17669	104.82 ug/L	100
3) Ethanol	6.56	45	23533	2287.19 ug/L	100
4) 1,4-dioxane	12.04	88	7232	519.24 ug/L	100
7) chlorodifluoromethane	4.22	51	30449	19.73 ug/L	100
8) dichlorodifluoromethane	4.19	85	46617	20.68 ug/L	100
10) chloromethane	4.55	50	51543	19.45 ug/L	100
11) vinyl chloride	4.83	62	48920	19.77 ug/L	100
12) bromomethane	5.53	94	31699	19.51 ug/L	100
13) chloroethane	5.73	64	22706	19.88 ug/L	100
14) trichlorofluoromethane	6.26	101	52380	20.45 ug/L	100
16) ethyl ether	6.71	74	19569	19.95 ug/L	100
18) acrolein	6.99	56	62045	171.60 ug/L	100
19) 1,1-dichloroethene	7.18	96	33215	19.45 ug/L	100
20) acetone	7.24	43	9502	19.86 ug/L	100
21) allyl chloride	7.77	76	19816	19.66 ug/L	100
22) acetonitrile	7.73	40	28047	195.71 ug/L	100
23) iodomethane	7.48	142	61539	19.30 ug/L	100
24) iso-butyl alcohol	10.95	74	7912	138.12 ug/L	100
25) carbon disulfide	7.62	76	111396	18.72 ug/L	100
26) methylene chloride	7.99	84	38141	19.16 ug/L	100
27) methyl acetate	7.76	74	5697	18.46 ug/L	100
28) methyl tert butyl ether	8.35	73	104373	19.00 ug/L	100
29) trans-1,2-dichloroethene	8.40	96	36709	19.38 ug/L	100
30) di-isopropyl ether	9.01	45	113124	19.93 ug/L	100
31) 2-butanone	9.81	72	3644	18.33 ug/L	100
32) 1,1-dichloroethane	9.03	63	64027	19.23 ug/L	100
33) chloroprene	9.14	53	51619	19.71 ug/L	100
34) acrylonitrile	8.35	53	63665	101.85 ug/L	100
35) vinyl acetate	9.03	86	5927	18.61 ug/L	100
36) ethyl tert-butyl ether	9.52	59	116158	19.96 ug/L	100
37) ethyl acetate	9.83	45	4437	19.37 ug/L	100
38) 2,2-dichloropropane	9.83	77	49247	19.11 ug/L	100
39) cis-1,2-dichloroethene	9.83	96	40131	19.44 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145753.D
Acq On : 2 Apr 2014 3:59 pm
Operator : thomass1
Sample : IC6216-20
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
40) methylacrylate	9.91	85	5142	18.78 ug/L	100
41) propionitrile	9.90	54	47770	199.31 ug/L	100
42) bromochloromethane	10.16	128	20158	19.58 ug/L	100
43) tetrahydrofuran	10.21	42	11330	19.74 ug/L	100
44) chloroform	10.23	85	41603	18.81 ug/L	100
45) t-butyl formate	10.26	59	31804	19.81 ug/L	100
48) freon 113	7.15	151	24821	19.08 ug/L	100
49) methacrylonitrile	10.10	41	20520	20.21 ug/L	100
50) 1,1,1-trichloroethane	10.49	97	53941	19.34 ug/L	100
51) Cyclohexane	10.56	84	50929	19.50 ug/L	100
53) epichlorohydrin	12.57	57	15891	101.04 ug/L	100
54) n-butyl alcohol	11.48	56	43742	1005.82 ug/L	100
55) carbon tetrachloride	10.70	117	50076	19.61 ug/L	100
56) 1,1-dichloropropene	10.68	75	47853	19.42 ug/L	100
57) hexane	8.74	57	39638	19.93 ug/L	100
59) 2,2,4-TRIMETHYLPENTANE	10.96	57	107667	19.93 ug/L #	100
60) benzene	10.95	78	141900	19.05 ug/L	100
61) tert-amyl methyl ether	10.99	87	26704	19.93 ug/L	100
62) heptane	11.13	57	20757	19.88 ug/L	100
63) isopropyl acetate	10.89	43	60882	19.51 ug/L	100
64) 1,2-dichloroethane	10.97	62	46488	19.93 ug/L	100
66) trichloroethene	11.67	95	36172	19.33 ug/L	100
68) methyl methacrylate	11.94	41	52289	19.93 ug/L	100
69) 2-nitropropane	12.43	41	11751	19.76 ug/L	100
70) 2-chloroethyl vinyl ether	12.45	63	82099	97.24 ug/L	100
71) 1,2-dichloropropane	11.93	63	35263	19.75 ug/L	100
72) dibromomethane	12.09	93	22084	19.77 ug/L	100
73) methylcyclohexane	11.88	83	53405	19.70 ug/L	100
74) bromodichloromethane	12.22	83	48751	19.44 ug/L	100
75) cis-1,3-dichloropropene	12.66	75	58124	19.24 ug/L	100
77) 4-methyl-2-pentanone	12.75	58	12944	20.01 ug/L	100
78) toluene	13.00	92	85352	19.08 ug/L	100
79) 3-methyl-1-butanol	12.78	55	28324	407.86 ug/L	100
80) trans-1,3-dichloropropene	13.20	75	53916	19.57 ug/L	100
81) ethyl methacrylate	13.19	69	43829	19.84 ug/L	100
82) 1,1,2-trichloroethane	13.39	83	26419	19.88 ug/L	100
83) 2-hexanone	13.56	58	11672	19.78 ug/L	100
85) tetrachloroethene	13.56	164	29690	19.73 ug/L	100
86) 1,3-dichloropropane	13.57	76	50779	19.37 ug/L	100
87) butyl acetate	13.63	56	20972	20.09 ug/L	100
88) 3,3-dimethyl-1-butanol	13.72	57	33358	202.26 ug/L	100
89) dibromochloromethane	13.82	129	38079	19.60 ug/L	100
90) 1,2-dibromoethane	13.96	107	33067	19.72 ug/L	100
91) chlorobenzene	14.39	112	91921	18.78 ug/L	100
92) 1,1,1,2-tetrachloroethane	14.45	131	36081	19.61 ug/L	100
93) ethylbenzene	14.44	91	159157	19.11 ug/L	100
94) m,p-xylene	14.54	106	119394	38.07 ug/L	100
95) o-xylene	14.93	106	59880	19.46 ug/L	100
96) styrene	14.94	104	101451	19.42 ug/L	100
97) bromoform	15.19	173	26802	19.89 ug/L	100

7.6.4

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145753.D
Acq On : 2 Apr 2014 3:59 pm
Operator : thomass1
Sample : IC6216-20
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
99) isopropylbenzene	15.25	105	149698	18.93 ug/L	100
101) cyclohexanone	15.41	98	5011	146.09 ug/L	100
102) bromobenzene	15.62	156	42810	19.23 ug/L	100
103) 1,1,2,2-tetrachloroethane	15.54	83	42737	19.03 ug/L	100
104) trans-1,4-dichloro-2-buten	15.57	53	9523	19.96 ug/L	100
105) 1,2,3-trichloropropane	15.61	110	10607	19.71 ug/L	100
106) n-propylbenzene	15.63	120	37625	19.46 ug/L	100
107) 2-chlorotoluene	15.77	126	36925	19.14 ug/L	100
108) 4-chlorotoluene	15.86	126	37829	19.29 ug/L	100
109) 1,3,5-trimethylbenzene	15.77	105	124987	19.07 ug/L	100
110) tert-butylbenzene	16.09	119	103490	18.91 ug/L	100
111) pentachloroethane	16.17	167	26497	19.86 ug/L	100
112) 1,2,4-trimethylbenzene	16.13	105	123546	18.97 ug/L	100
113) sec-butylbenzene	16.29	105	157101	18.62 ug/L	100
114) 1,3-dichlorobenzene	16.47	146	77112	18.97 ug/L	100
115) p-isopropyltoluene	16.40	119	130936	18.68 ug/L	100
116) 1,4-dichlorobenzene	16.55	146	78160	18.73 ug/L	100
117) 1,2-dichlorobenzene	16.92	146	74429	18.87 ug/L	100
118) benzyl chloride	16.65	91	76019	19.51 ug/L	100
119) n-butylbenzene	16.79	92	66532	18.52 ug/L	100
120) 1,2-dibromo-3-chloropropan	17.67	75	6775	19.57 ug/L	100
121) 1,3,5-TRICHLOROBENZENE	17.86	180	59379	18.37 ug/L	100
122) 1,2,4-trichlorobenzene	18.49	180	52382	19.26 ug/L	100
123) hexachlorobutadiene	18.61	225	26306	18.12 ug/L	100
124) naphthalene	18.77	128	113662	19.49 ug/L	100
125) 1,2,3-trichlorobenzene	19.02	180	47081	19.43 ug/L	100
126) hexachloroethane	17.17	201	24497	19.94 ug/L	100

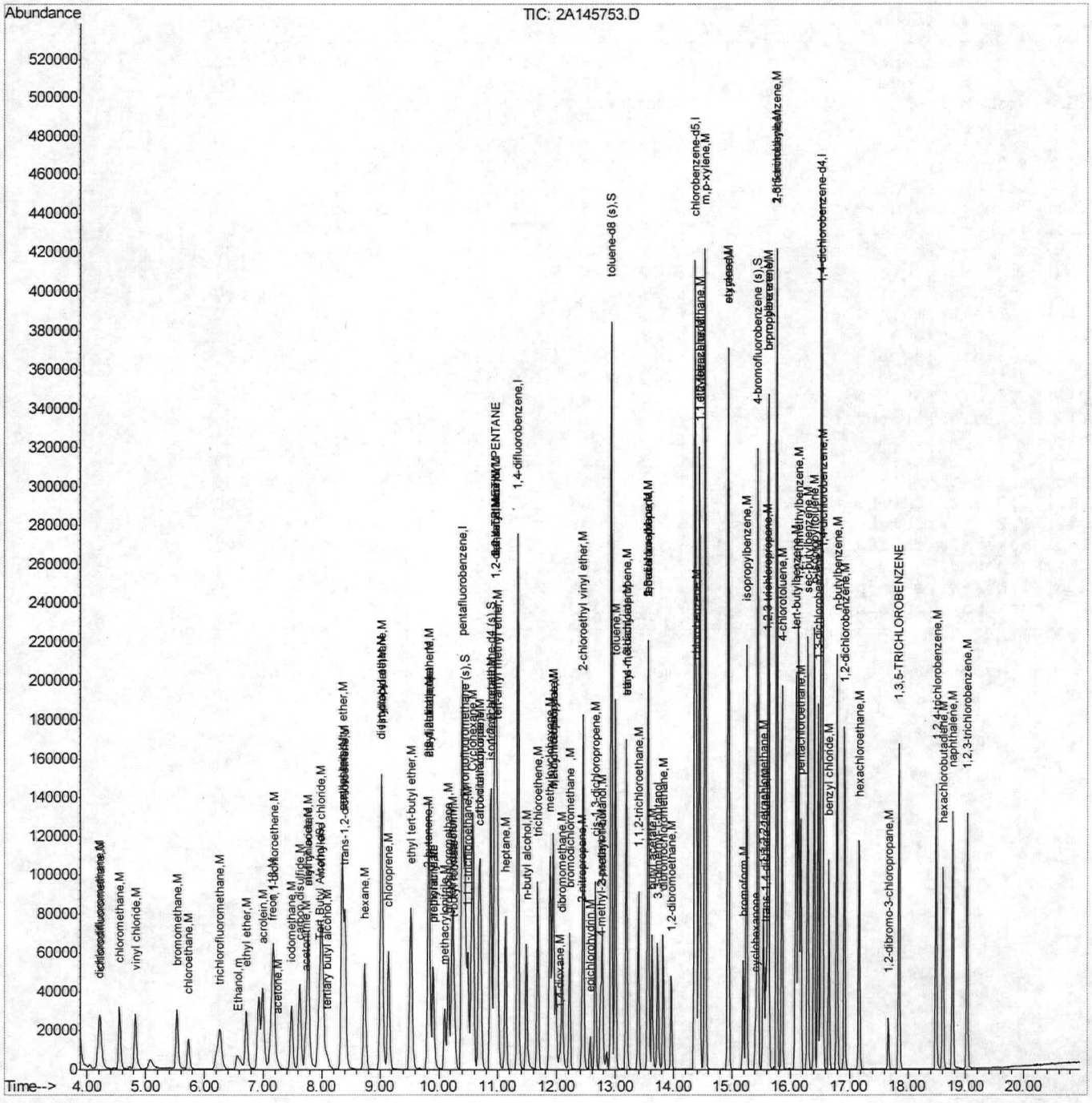
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.4 7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145753.D
Acq On : 2 Apr 2014 3:59 pm
Operator : thomass1
Sample : IC6216-20
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:54:49 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145754.D
Acq On : 2 Apr 2014 4:29 pm
Operator : thomass1
Sample : ICC6216-50
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 03 12:15:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:57:05 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.95	65	65446	500.00 ug/L	0.00
5) pentafluorobenzene	10.40	168	154188	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	227710	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	196024	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.53	152	100305	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	81025	67.33 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 134.66%#		
47) 1,2-dichloroethane-d4 (s)	10.87	65	89261	66.94 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 133.88%#		
76) toluene-d8 (s)	12.93	98	278775	65.43 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 130.86%#		
100) 4-bromofluorobenzene (s)	15.44	95	109717	64.88 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 129.76%#		
Target Compounds					Qvalue
2) tertiary butyl alcohol	8.09	59	45312	318.55 ug/L	94
3) Ethanol	6.56	45	64681	8381.80 ug/L	98
4) 1,4-dioxane	12.04	88	18465	1681.84 ug/L	97
7) chlorodifluoromethane	4.22	51	79896	68.52 ug/L	99
8) dichlorodifluoromethane	4.19	85	116960	67.19 ug/L	99
10) chloromethane	4.55	50	128037	60.02 ug/L	98
11) vinyl chloride	4.83	62	124489	62.34 ug/L	97
12) bromomethane	5.53	94	79395	58.87 ug/L	98
13) chloroethane	5.73	64	56863	63.44 ug/L	98
14) trichlorofluoromethane	6.26	101	131881	67.90 ug/L	97
16) ethyl ether	6.71	74	49842	66.29 ug/L	95
18) acrolein	6.98	56	178392	571.66 ug/L	98
19) 1,1-dichloroethene	7.18	96	83825	59.04 ug/L	96
20) acetone	7.24	43	24145	24.09 ug/L	97
21) allyl chloride	7.77	76	50162	64.48 ug/L	98
22) acetonitrile	7.72	40	69503	577.82 ug/L	91
23) iodomethane	7.48	142	156479	60.16 ug/L	99
24) iso-butyl alcohol	10.95	74	30399	850.94 ug/L #	95
25) carbon disulfide	7.62	76	284236	59.35 ug/L	99
26) methylene chloride	7.98	84	95509	58.56 ug/L	97
27) methyl acetate	7.76	74	15678	71.60 ug/L	96
28) methyl tert butyl ether	8.35	73	266526	60.27 ug/L	97
29) trans-1,2-dichloroethene	8.40	96	92304	58.99 ug/L	98
30) di-isopropyl ether	9.01	45	294278	64.94 ug/L	88
31) 2-butanone	9.80	72	9848	81.04 ug/L #	89
32) 1,1-dichloroethane	9.03	63	162400	60.61 ug/L	98
33) chloroprene	9.14	53	132879	68.24 ug/L	98
34) acrylonitrile	8.35	53	161082	317.25 ug/L	98
35) vinyl acetate	9.02	86	16249	76.06 ug/L	89
36) ethyl tert-butyl ether	9.52	59	301356	64.88 ug/L	99
37) ethyl acetate	9.83	45	11625	68.48 ug/L	96
38) 2,2-dichloropropane	9.83	77	122874	58.02 ug/L	98
39) cis-1,2-dichloroethene	9.83	96	101560	60.51 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145754.D
Acq On : 2 Apr 2014 4:29 pm
Operator : thomass1
Sample : ICC6216-50
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 03 12:15:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:57:05 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
40) methylacrylate	9.91	85	13328	77.87 ug/L	95
41) propionitrile	9.89	54	120206	638.59 ug/L	98
42) bromochloromethane	10.16	128	50601	62.31 ug/L	97
43) tetrahydrofuran	10.21	42	27846	60.08 ug/L	98
44) chloroform	10.23	85	104444	58.45 ug/L	97
45) t-butyl formate	10.26	59	83185	69.81 ug/L	99
48) freon 113	7.15	151	65182	71.88 ug/L	99
49) methacrylonitrile	10.09	41	50748	64.55 ug/L	98
50) 1,1,1-trichloroethane	10.49	97	137905	61.50 ug/L	98
51) Cyclohexane	10.56	84	128621	61.11 ug/L	97
53) epichlorohydrin	12.57	57	40735	351.97 ug/L	99
54) n-butyl alcohol	11.47	56	112368	3561.46 ug/L	99
55) carbon tetrachloride	10.70	117	127269	61.55 ug/L	96
56) 1,1-dichloropropene	10.68	75	120551	60.85 ug/L	100
57) hexane	8.74	57	98725	64.01 ug/L	98
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	275207	62.55 ug/L #	99
60) benzene	10.95	78	360527	59.47 ug/L	99
61) tert-amyl methyl ether	10.99	87	68215	65.95 ug/L	99
62) heptane	11.13	57	53538	67.98 ug/L	96
63) isopropyl acetate	10.88	43	160136	64.25 ug/L	97
64) 1,2-dichloroethane	10.97	62	117385	60.97 ug/L	99
66) trichloroethene	11.67	95	92051	60.75 ug/L	98
68) methyl methacrylate	11.94	41	129056	59.69 ug/L	98
69) 2-nitropropane	12.43	41	29503	66.35 ug/L	99
70) 2-chloroethyl vinyl ether	12.45	63	216094	341.44 ug/L	99
71) 1,2-dichloropropane	11.93	63	91206	62.19 ug/L	99
72) dibromomethane	12.09	93	57059	62.13 ug/L	97
73) methylcyclohexane	11.88	83	137179	65.47 ug/L	99
74) bromodichloromethane	12.22	83	124467	62.07 ug/L	100
75) cis-1,3-dichloropropene	12.66	75	149190	61.43 ug/L	98
77) 4-methyl-2-pentanone	12.75	58	32665	67.99 ug/L	94
78) toluene	13.00	92	217330	59.97 ug/L	97
79) 3-methyl-1-butanol	12.78	55	72450	1357.24 ug/L	99
80) trans-1,3-dichloropropene	13.19	75	138437	62.14 ug/L	98
81) ethyl methacrylate	13.18	69	113330	63.71 ug/L	96
82) 1,1,2-trichloroethane	13.40	83	66956	61.26 ug/L	97
83) 2-hexanone	13.56	58	29787	70.62 ug/L	96
85) tetrachloroethene	13.56	164	75504	59.96 ug/L	98
86) 1,3-dichloropropane	13.57	76	130884	60.19 ug/L	97
87) butyl acetate	13.63	56	53837	65.98 ug/L	98
88) 3,3-dimethyl-1-butanol	13.72	57	86497	667.72 ug/L	99
89) dibromochloromethane	13.82	129	98455	61.86 ug/L	100
90) 1,2-dibromoethane	13.96	107	84881	61.18 ug/L	98
91) chlorobenzene	14.39	112	237692	59.49 ug/L	97
92) 1,1,1,2-tetrachloroethane	14.45	131	92056	60.77 ug/L	99
93) ethylbenzene	14.44	91	408474	59.61 ug/L	100
94) m,p-xylene	14.54	106	307659	118.59 ug/L	99
95) o-xylene	14.93	106	153717	60.48 ug/L	99
96) styrene	14.94	104	266334	63.05 ug/L	99
97) bromoform	15.19	173	69247	64.19 ug/L	99

7.6.5

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145754.D
Acq On : 2 Apr 2014 4:29 pm
Operator : thomass1
Sample : ICC6216-50
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 03 12:15:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:57:05 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
99) isopropylbenzene	15.25	105	385201	58.44 ug/L	99
101) cyclohexanone	15.41	98	14427	687.96 ug/L	94
102) bromobenzene	15.62	156	108846	59.33 ug/L	95
103) 1,1,2,2-tetrachloroethane	15.54	83	107403	57.80 ug/L	98
104) trans-1,4-dichloro-2-buten	15.57	53	25470	68.75 ug/L	99
105) 1,2,3-trichloropropane	15.61	110	26771	60.22 ug/L	96
106) n-propylbenzene	15.63	120	96279	59.84 ug/L	97
107) 2-chlorotoluene	15.77	126	95339	59.19 ug/L	96
108) 4-chlorotoluene	15.86	126	98201	60.60 ug/L	99
109) 1,3,5-trimethylbenzene	15.77	105	325039	60.06 ug/L	98
110) tert-butylbenzene	16.09	119	267609	59.37 ug/L	99
111) pentachloroethane	16.17	167	69834	62.46 ug/L	98
112) 1,2,4-trimethylbenzene	16.13	105	321748	60.24 ug/L	99
113) sec-butylbenzene	16.29	105	408043	59.46 ug/L	99
114) 1,3-dichlorobenzene	16.47	146	198315	58.98 ug/L	100
115) p-isopropyltoluene	16.40	119	341206	60.05 ug/L	99
116) 1,4-dichlorobenzene	16.55	146	201474	58.60 ug/L	99
117) 1,2-dichlorobenzene	16.92	146	192623	59.35 ug/L	99
118) benzyl chloride	16.65	91	202297	65.76 ug/L	99
119) n-butylbenzene	16.79	92	175143	61.26 ug/L	98
120) 1,2-dibromo-3-chloropropan	17.67	75	17496	67.15 ug/L	98
121) 1,3,5-TRICHLOROBENZENE	17.86	180	155213	60.50 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	140182	63.70 ug/L	98
123) hexachlorobutadiene	18.61	225	68238	54.89 ug/L	100
124) naphthalene	18.77	128	300687	63.37 ug/L	99
125) 1,2,3-trichlorobenzene	19.02	180	124329	62.48 ug/L	98
126) hexachloroethane	17.17	201	64944	63.91 ug/L	99

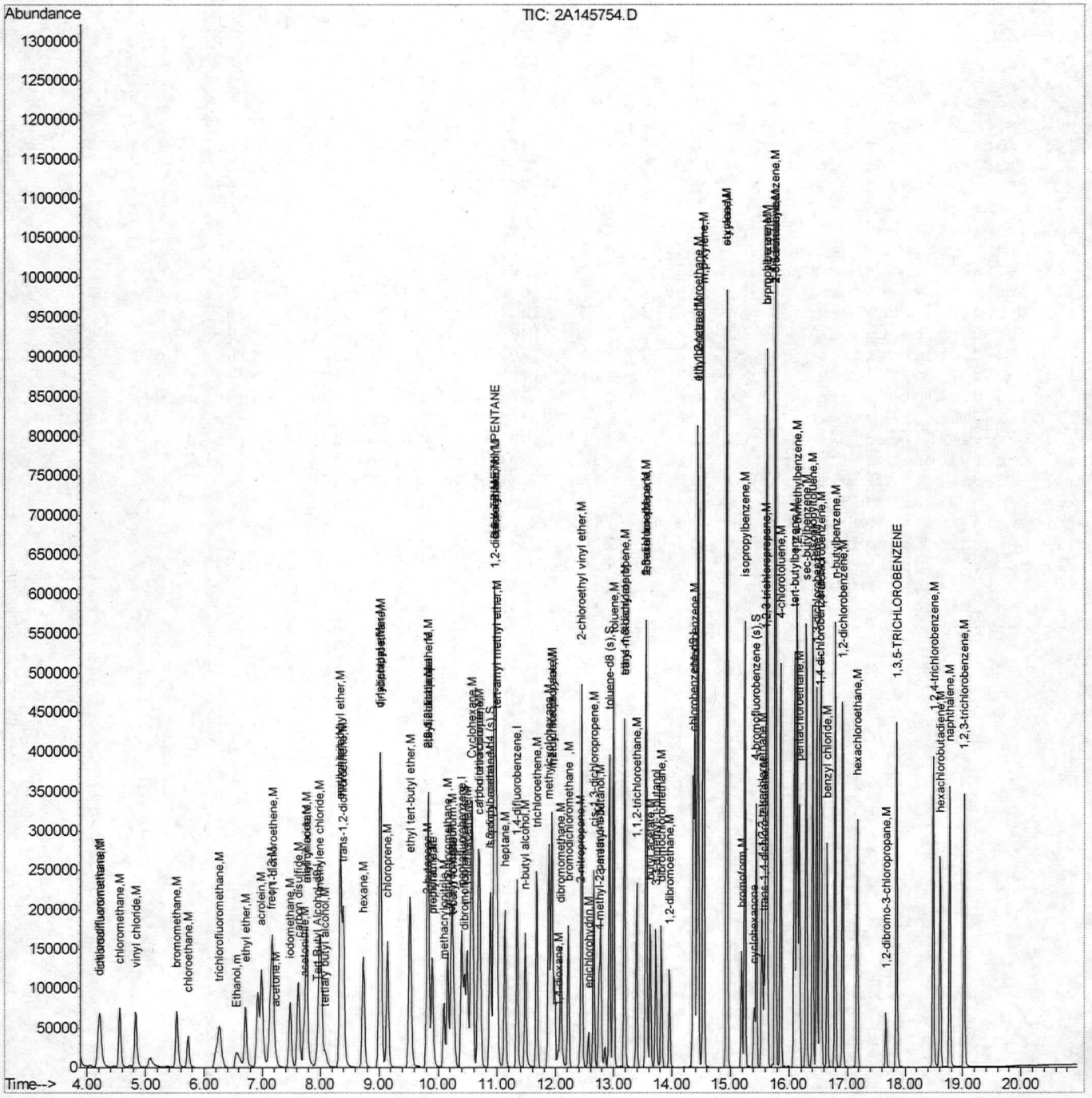
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.5 7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145754.D
Acq On : 2 Apr 2014 4:29 pm
Operator : thomass1
Sample : ICC6216-50
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 03 12:15:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:57:05 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66485

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145755.D
Acq On : 2 Apr 2014 4:58 pm
Operator : thomass1
Sample : IC6216-100
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 03 12:16:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:59:36 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.96	65	74134	500.00 ug/L	0.01
5) pentafluorobenzene	10.40	168	177650	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.34	114	262758	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	224160	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.53	152	114694	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	164781	116.04 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 232.08%#		
47) 1,2-dichloroethane-d4 (s)	10.87	65	180461	117.08 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 234.16%#		
76) toluene-d8 (s)	12.93	98	572145	112.22 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 224.44%#		
100) 4-bromofluorobenzene (s)	15.44	95	220556	109.47 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 218.94%#		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.09	59	91362	537.54 ug/L	85
3) Ethanol	6.56	45	129681	13332.58 ug/L #	87
4) 1,4-dioxane	12.04	88	37444	2816.22 ug/L	99
7) chlorodifluoromethane	4.23	51	160686	121.12 ug/L	99
8) dichlorodifluoromethane	4.20	85	236422	119.60 ug/L	98
10) chloromethane	4.57	50	260025	104.99 ug/L	99
11) vinyl chloride	4.84	62	250501	106.59 ug/L	98
12) bromomethane	5.53	94	158144	100.74 ug/L	99
13) chloroethane	5.73	64	118424	117.91 ug/L	97
14) trichlorofluoromethane	6.27	101	271234	126.07 ug/L	98
16) ethyl ether	6.71	74	103466	113.28 ug/L	96
19) 1,1-dichloroethene	7.18	96	171629	108.36 ug/L	95
20) acetone	7.24	43	48023	45.52 ug/L	96
21) allyl chloride	7.77	76	106085	74.90 ug/L	97
22) acetonitrile	7.72	40	143615	1109.37 ug/L	92
23) iodomethane	7.48	142	319158	108.98 ug/L	100
24) iso-butyl alcohol	10.95	74	63308	1348.76 ug/L #	80
25) carbon disulfide	7.62	76	579296	105.56 ug/L	99
26) methylene chloride	7.99	84	196030	105.49 ug/L	99
27) methyl acetate	7.76	74	32566	116.50 ug/L	90
28) methyl tert butyl ether	8.35	73	542684	107.08 ug/L	99
29) trans-1,2-dichloroethene	8.40	96	190876	108.11 ug/L	98
30) di-isopropyl ether	9.02	45	595390	110.38 ug/L	78
31) 2-butanone	9.80	72	20705	128.01 ug/L #	63
32) 1,1-dichloroethane	9.03	63	331339	109.48 ug/L	98
33) chloroprene	9.14	53	269396	115.88 ug/L	98
34) acrylonitrile	8.34	53	337952	607.51 ug/L	99
35) vinyl acetate	9.02	86	33866	121.73 ug/L	80
36) ethyl tert-butyl ether	9.52	59	610764	110.55 ug/L	100
37) ethyl acetate	9.82	45	23880	111.77 ug/L	89
38) 2,2-dichloropropane	9.83	77	249811	104.34 ug/L	97
39) cis-1,2-dichloroethene	9.83	96	210517	111.13 ug/L	94
40) methylacrylate	9.90	85	28862	128.45 ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145755.D
Acq On : 2 Apr 2014 4:58 pm
Operator : thomass1
Sample : IC6216-100
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 03 12:16:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:59:36 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) propionitrile	9.89	54	249969	1218.34 ug/L	97
42) bromochloromethane	10.16	128	104834	107.63 ug/L	98
43) tetrahydrofuran	10.21	42	58095	105.25 ug/L	97
44) chloroform	10.23	85	214787	106.04 ug/L	98
45) t-butyl formate	10.26	59	169987	125.98 ug/L	98
48) freon 113	7.15	151	131870	117.64 ug/L	98
49) methacrylonitrile	10.10	41	106913	125.97 ug/L	98
50) 1,1,1-trichloroethane	10.49	97	283509	111.67 ug/L	100
51) Cyclohexane	10.56	84	263185	109.99 ug/L	97
53) epichlorohydrin	12.56	57	83792	587.50 ug/L	97
54) n-butyl alcohol	11.47	56	223980	6237.17 ug/L	99
55) carbon tetrachloride	10.70	117	260574	111.18 ug/L	97
56) 1,1-dichloropropene	10.68	75	250822	113.18 ug/L	99
57) hexane	8.74	57	207396	115.01 ug/L	98
59) 2,2,4-TRIMETHYLPENTANE	10.96	57	573867	107.07 ug/L #	98
60) benzene	10.95	78	745546	107.80 ug/L	100
61) tert-amyl methyl ether	10.99	87	139555	118.05 ug/L	98
62) heptane	11.13	57	110666	115.71 ug/L	98
63) isopropyl acetate	10.88	43	324948	108.35 ug/L	99
64) 1,2-dichloroethane	10.97	62	241809	111.47 ug/L	98
66) trichloroethene	11.67	95	189677	111.19 ug/L	98
68) methyl methacrylate	11.94	41	273135	111.65 ug/L	98
69) 2-nitropropane	12.43	41	60809	112.39 ug/L	95
70) 2-chloroethyl vinyl ether	12.45	63	449425	595.21 ug/L	99
71) 1,2-dichloropropane	11.93	63	188108	113.76 ug/L	99
72) dibromomethane	12.09	93	117639	119.46 ug/L	97
73) methylcyclohexane	11.88	83	284827	114.35 ug/L	99
74) bromodichloromethane	12.22	83	256505	111.69 ug/L	99
75) cis-1,3-dichloropropene	12.66	75	307015	110.82 ug/L	97
77) 4-methyl-2-pentanone	12.75	58	68420	116.44 ug/L	99
78) toluene	13.00	92	448165	108.22 ug/L	98
79) 3-methyl-1-butanol	12.78	55	145100	2341.54 ug/L	99
80) trans-1,3-dichloropropene	13.20	75	283587	113.28 ug/L	97
81) ethyl methacrylate	13.18	69	234819	116.14 ug/L	97
82) 1,1,2-trichloroethane	13.40	83	137523	111.14 ug/L	96
83) 2-hexanone	13.56	58	63378	121.85 ug/L	99
85) tetrachloroethene	13.56	164	155362	111.53 ug/L	97
86) 1,3-dichloropropane	13.57	76	270452	110.23 ug/L	98
87) butyl acetate	13.63	56	109008	122.72 ug/L	98
88) 3,3-dimethyl-1-butanol	13.72	57	173213	1162.49 ug/L	98
89) dibromochloromethane	13.82	129	205054	115.60 ug/L	100
90) 1,2-dibromoethane	13.96	107	173116	111.14 ug/L	99
91) chlorobenzene	14.39	112	486205	107.04 ug/L	98
92) 1,1,1,2-tetrachloroethane	14.45	131	189136	112.39 ug/L	99
93) ethylbenzene	14.44	91	841949	108.14 ug/L	100
94) m,p-xylene	14.54	106	632385	215.87 ug/L	99
95) o-xylene	14.93	106	314245	110.10 ug/L	96
96) styrene	14.94	104	545231	112.86 ug/L	99
97) bromoform	15.19	173	145946	121.21 ug/L	98
99) isopropylbenzene	15.25	105	792689	106.22 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145755.D
Acq On : 2 Apr 2014 4:58 pm
Operator : thomass1
Sample : IC6216-100
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 03 12:16:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:59:36 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
101) cyclohexanone	15.41	98	29594	1161.40 ug/L	93
102) bromobenzene	15.62	156	225042	109.90 ug/L	96
103) 1,1,2,2-tetrachloroethane	15.54	83	222058	107.14 ug/L	98
104) trans-1,4-dichloro-2-buten	15.57	53	53031	117.83 ug/L	97
105) 1,2,3-trichloropropane	15.61	110	55278	105.16 ug/L	98
106) n-propylbenzene	15.63	120	197021	110.76 ug/L	99
107) 2-chlorotoluene	15.77	126	195359	106.99 ug/L	100
108) 4-chlorotoluene	15.86	126	201840	109.50 ug/L	97
109) 1,3,5-trimethylbenzene	15.77	105	667974	108.65 ug/L	98
110) tert-butylbenzene	16.09	119	549417	106.73 ug/L	99
111) pentachloroethane	16.18	167	143274	115.86 ug/L	96
112) 1,2,4-trimethylbenzene	16.13	105	658679	108.19 ug/L	98
113) sec-butylbenzene	16.29	105	837582	106.96 ug/L	100
114) 1,3-dichlorobenzene	16.47	146	405720	106.54 ug/L	100
115) p-isopropyltoluene	16.40	119	702588	107.68 ug/L	99
116) 1,4-dichlorobenzene	16.55	146	413401	105.90 ug/L	99
117) 1,2-dichlorobenzene	16.92	146	394479	107.01 ug/L	99
118) benzyl chloride	16.65	91	409061	111.67 ug/L	100
119) n-butylbenzene	16.79	92	357541	108.97 ug/L	97
120) 1,2-dibromo-3-chloropropan	17.67	75	36344	115.40 ug/L	99
121) 1,3,5-TRICHLOROBENZENE	17.86	180	316270	107.20 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	283587	109.10 ug/L	99
123) hexachlorobutadiene	18.61	225	137820	91.20 ug/L	99
124) naphthalene	18.77	128	609699	109.70 ug/L	99
125) 1,2,3-trichlorobenzene	19.02	180	244830	105.13 ug/L	98
126) hexachloroethane	17.17	201	133816	118.05 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

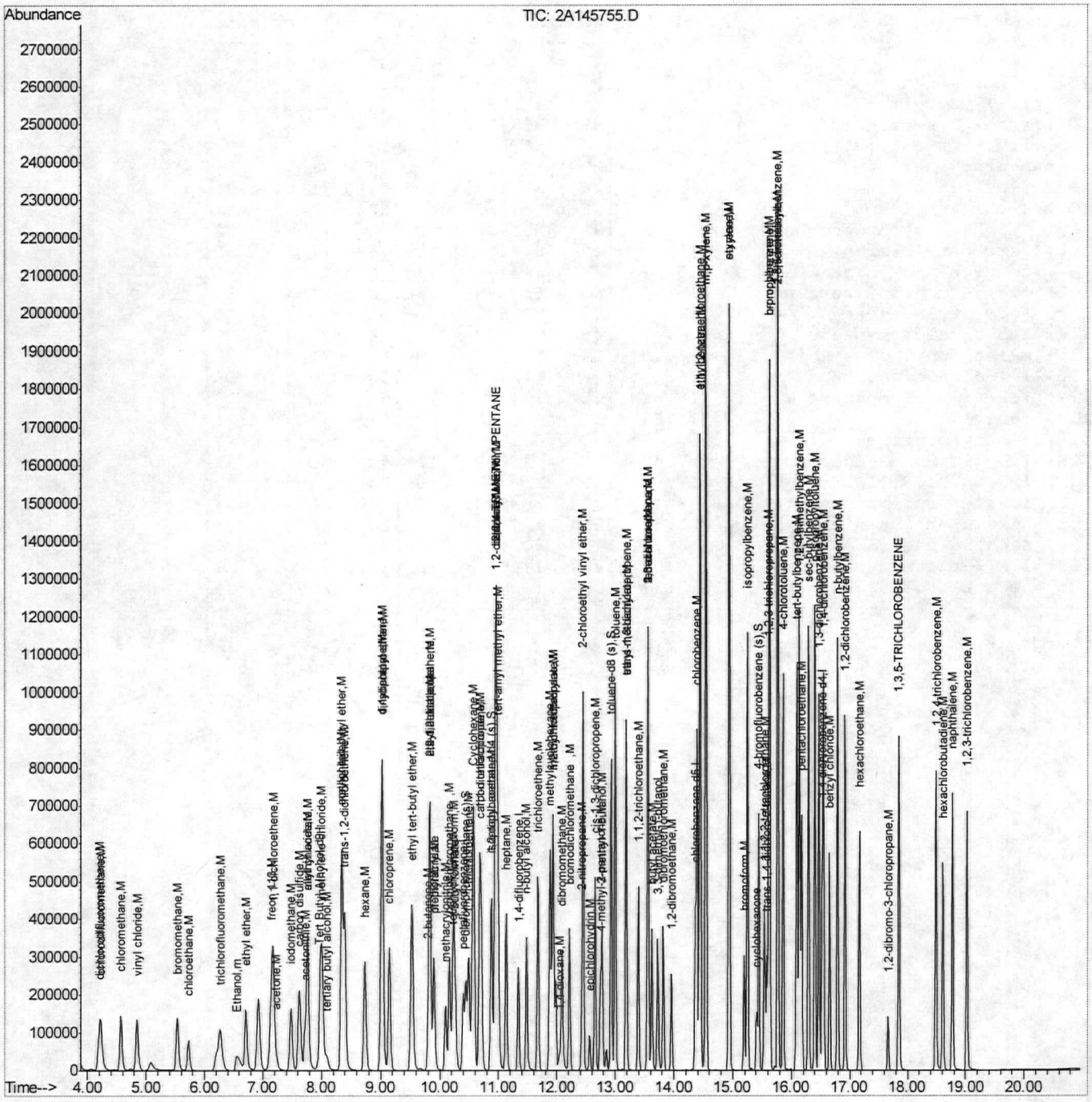
7.6.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145755.D
Acq On : 2 Apr 2014 4:58 pm
Operator : thomass1
Sample : IC6216-100
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 03 12:16:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Wed Apr 02 16:59:36 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66485

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145756.D
Acq On : 2 Apr 2014 5:28 pm
Operator : thomass1
Sample : IC6216-200
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 03 12:17:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:14:27 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.96	65	80486	500.00 ug/L	0.01
5) pentafluorobenzene	10.40	168	182997	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.34	114	270706	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	233124	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.53	152	119378	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	342310	229.42 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 458.84%#		
47) 1,2-dichloroethane-d4 (s)	10.87	65	372830	229.92 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 459.84%#		
76) toluene-d8 (s)	12.93	98	1198892	224.81 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 449.62%#		
100) 4-bromofluorobenzene (s)	15.44	95	467006	220.09 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 440.18%#		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.09	59	183936	984.49 ug/L	75
3) Ethanol	6.56	45	245505	22192.00 ug/L #	77
4) 1,4-dioxane	12.04	88	74299	5040.85 ug/L	98
7) chlorodifluoromethane	4.22	51	332035	236.72 ug/L	99
8) dichlorodifluoromethane	4.19	85	478294	229.28 ug/L	98
10) chloromethane	4.58	50	541009	210.75 ug/L	99
11) vinyl chloride	4.85	62	515629	211.25 ug/L	98
12) bromomethane	5.53	94	307785	190.16 ug/L	98
13) chloroethane	5.72	64	245627	232.22 ug/L	99
14) trichlorofluoromethane	6.26	101	562159	245.66 ug/L	97
16) ethyl ether	6.71	74	213234	222.42 ug/L	95
19) 1,1-dichloroethene	7.18	96	356096	215.99 ug/L	95
20) acetone	7.24	43	98363	98.15 ug/L	97
21) allyl chloride	7.77	76	216478	153.18 ug/L	97
22) acetonitrile	7.72	40	293351	2170.14 ug/L	92
23) iodomethane	7.48	142	658897	215.99 ug/L	99
24) iso-butyl alcohol	10.95	74	131263	2565.68 ug/L #	81
25) carbon disulfide	7.62	76	1198438	210.54 ug/L	100
26) methylene chloride	7.99	84	407823	211.59 ug/L	100
27) methyl acetate	7.76	74	67943	228.41 ug/L	97
28) methyl tert butyl ether	8.35	73	1126210	213.83 ug/L	99
29) trans-1,2-dichloroethene	8.40	96	396807	215.99 ug/L	96
30) di-isopropyl ether	9.02	45	1237025	219.78 ug/L	77
31) 2-butanone	9.80	72	42820	243.37 ug/L #	64
32) 1,1-dichloroethane	9.03	63	689747	218.65 ug/L	98
33) chloroprene	9.14	53	556125	227.71 ug/L	97
34) acrylonitrile	8.35	53	701531	1192.20 ug/L	99
35) vinyl acetate	9.02	86	71882	240.38 ug/L	85
36) ethyl tert-butyl ether	9.52	59	1260596	218.62 ug/L	99
37) ethyl acetate	9.82	45	49717	220.70 ug/L	95
38) 2,2-dichloropropane	9.83	77	508786	205.18 ug/L	95
39) cis-1,2-dichloroethene	9.83	96	439486	222.13 ug/L	93
40) methylacrylate	9.91	85	59854	244.68 ug/L	87

7.6.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145756.D
Acq On : 2 Apr 2014 5:28 pm
Operator : thomass1
Sample : IC6216-200
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 03 12:17:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:14:27 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) propionitrile	9.90	54	517683	2384.37 ug/L	88
42) bromochloromethane	10.16	128	215882	212.84 ug/L	99
43) tetrahydrofuran	10.20	42	119437	208.50 ug/L	97
44) chloroform	10.23	85	447876	213.04 ug/L	97
45) t-butyl formate	10.26	59	354382	246.95 ug/L	91
48) freon 113	7.14	151	270493	228.49 ug/L	96
49) methacrylonitrile	10.09	41	218118	241.64 ug/L	99
50) 1,1,1-trichloroethane	10.49	97	584719	220.36 ug/L	100
51) Cyclohexane	10.56	84	555040	222.41 ug/L	99
53) epichlorohydrin	12.57	57	171441	1138.29 ug/L	97
54) n-butyl alcohol	11.48	56	452042	11851.85 ug/L	100
55) carbon tetrachloride	10.70	117	542643	221.64 ug/L	97
56) 1,1-dichloropropene	10.68	75	523223	225.46 ug/L	99
57) hexane	8.73	57	423794	223.91 ug/L	98
59) 2,2,4-TRIMETHYLPENTANE	10.96	57	1224227	219.76 ug/L #	98
60) benzene	10.95	78	1561606	217.05 ug/L	100
61) tert-amyl methyl ether	10.99	87	286147	229.77 ug/L	95
62) heptane	11.13	57	224953	223.90 ug/L	97
63) isopropyl acetate	10.88	43	674442	216.02 ug/L	99
64) 1,2-dichloroethane	10.97	62	498505	219.91 ug/L	99
66) trichloroethene	11.67	95	395851	222.13 ug/L	98
68) methyl methacrylate	11.93	41	557485	218.02 ug/L	96
69) 2-nitropropane	12.43	41	124036	218.65 ug/L	95
70) 2-chloroethyl vinyl ether	12.45	63	967317	1214.57 ug/L	100
71) 1,2-dichloropropane	11.93	63	395212	228.06 ug/L	99
72) dibromomethane	12.09	93	242369	233.23 ug/L	98
73) methylcyclohexane	11.88	83	591452	226.42 ug/L	100
74) bromodichloromethane	12.22	83	534183	222.52 ug/L	100
75) cis-1,3-dichloropropene	12.66	75	641329	221.70 ug/L	95
77) 4-methyl-2-pentanone	12.75	58	141383	228.19 ug/L	98
78) toluene	13.00	92	930198	215.80 ug/L	98
79) 3-methyl-1-butanol	12.78	55	289754	4443.74 ug/L	99
80) trans-1,3-dichloropropene	13.19	75	593252	226.26 ug/L	95
81) ethyl methacrylate	13.18	69	493054	232.02 ug/L	98
82) 1,1,2-trichloroethane	13.40	83	286717	221.83 ug/L	97
83) 2-hexanone	13.56	58	131452	237.88 ug/L	98
85) tetrachloroethene	13.56	164	323413	220.08 ug/L	96
86) 1,3-dichloropropane	13.57	76	564782	218.55 ug/L	96
87) butyl acetate	13.63	56	226426	238.33 ug/L	100
88) 3,3-dimethyl-1-butanol	13.72	57	342456	2165.97 ug/L	98
89) dibromochloromethane	13.82	129	422717	224.77 ug/L	100
90) 1,2-dibromoethane	13.96	107	360147	219.27 ug/L	99
91) chlorobenzene	14.39	112	1017949	213.61 ug/L	98
92) 1,1,1,2-tetrachloroethane	14.45	131	395359	222.45 ug/L	98
93) ethylbenzene	14.44	91	1764597	215.73 ug/L	100
94) m,p-xylene	14.54	106	1310793	426.02 ug/L	97
95) o-xylene	14.93	106	652833	217.20 ug/L	94
96) styrene	14.94	104	1137849	222.89 ug/L	98
97) bromoform	15.19	173	306726	238.62 ug/L	99
99) isopropylbenzene	15.25	105	1663348	212.49 ug/L	98

7.6.7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145756.D
Acq On : 2 Apr 2014 5:28 pm
Operator : thomass1
Sample : IC6216-200
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 03 12:17:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:14:27 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
101) cyclohexanone	15.41	98	53643	1977.00 ug/L	94
102) bromobenzene	15.62	156	469588	217.63 ug/L	97
103) 1,1,2,2-tetrachloroethane	15.54	83	462058	212.30 ug/L	99
104) trans-1,4-dichloro-2-buten	15.57	53	110654	230.35 ug/L	98
105) 1,2,3-trichloropropane	15.61	110	113758	206.39 ug/L	99
106) n-propylbenzene	15.63	120	417430	222.46 ug/L	92
107) 2-chlorotoluene	15.77	126	409740	213.72 ug/L	100
108) 4-chlorotoluene	15.86	126	425386	219.11 ug/L	95
109) 1,3,5-trimethylbenzene	15.77	105	1409903	217.97 ug/L	98
110) tert-butylbenzene	16.09	119	1174110	217.31 ug/L	98
111) pentachloroethane	16.18	167	300387	228.85 ug/L	96
112) 1,2,4-trimethylbenzene	16.13	105	1382152	215.91 ug/L	99
113) sec-butylbenzene	16.29	105	1763034	214.44 ug/L	100
114) 1,3-dichlorobenzene	16.47	146	850800	212.92 ug/L	99
115) p-isopropyltoluene	16.40	119	1472106	214.71 ug/L	99
116) 1,4-dichlorobenzene	16.55	146	863423	210.95 ug/L	99
117) 1,2-dichlorobenzene	16.92	146	814584	210.46 ug/L	99
118) benzyl chloride	16.65	91	850535	219.87 ug/L	100
119) n-butylbenzene	16.79	92	756038	218.92 ug/L	96
120) 1,2-dibromo-3-chloropropan	17.67	75	74578	222.61 ug/L	99
121) 1,3,5-TRICHLOROBENZENE	17.86	180	658414	212.50 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	591924	216.32 ug/L	98
123) hexachlorobutadiene	18.61	225	286917	184.44 ug/L	100
124) naphthalene	18.77	128	1230703	210.19 ug/L	100
125) 1,2,3-trichlorobenzene	19.02	180	494948	202.89 ug/L	99
126) hexachloroethane	17.17	201	283373	234.88 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

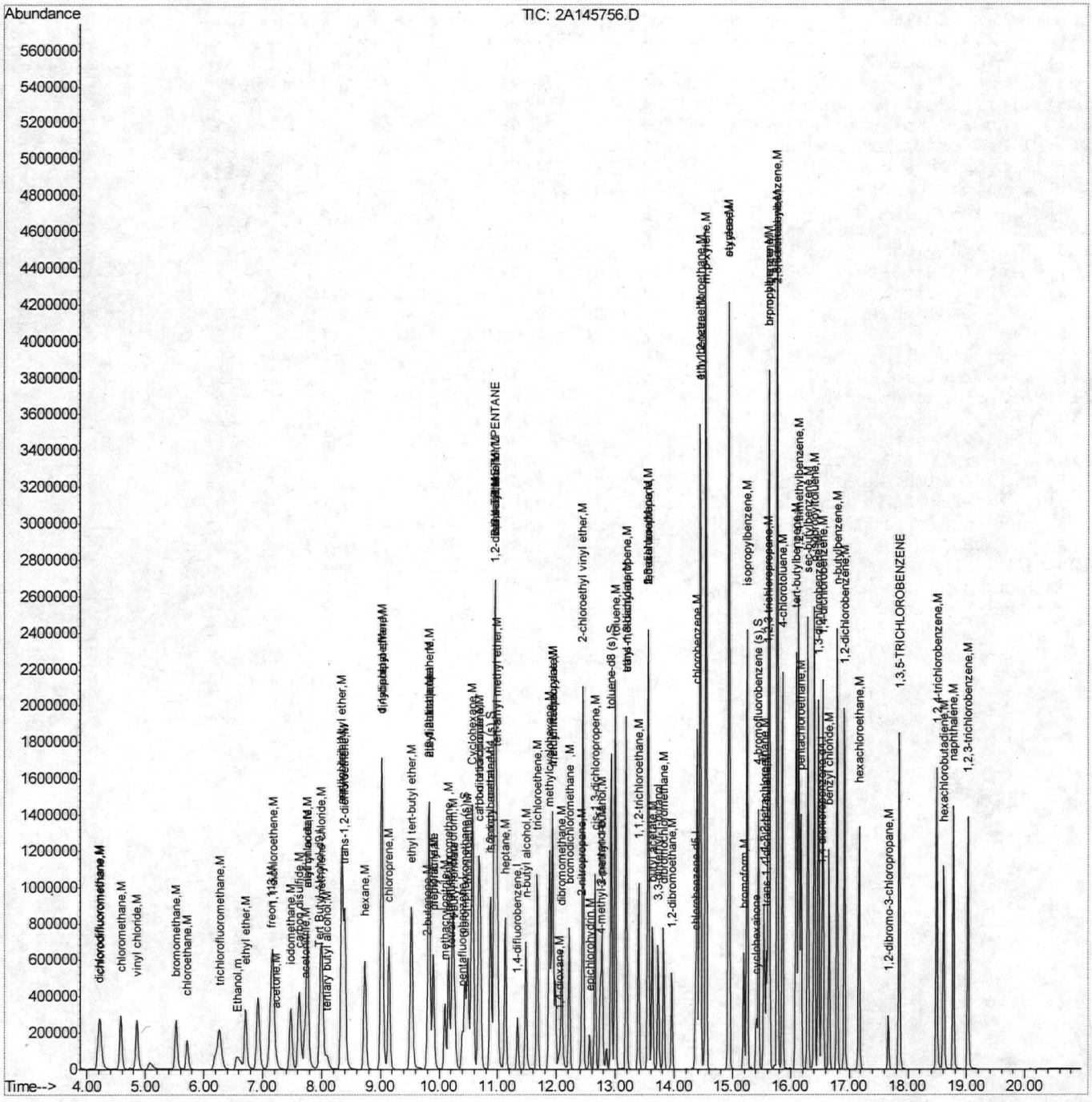
7.6.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145756.D
Acq On : 2 Apr 2014 5:28 pm
Operator : thomass1
Sample : IC6216-200
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 03 12:17:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:14:27 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145761.D
Acq On : 2 Apr 2014 7:57 pm
Operator : thomass1
Sample : IC6216-0.5
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 07 09:57:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:14:50 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.95	65	62969	500.00 ug/L	0.00
5) pentafluorobenzene	10.40	168	148574	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	218701	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	189949	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.52	152	93340	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	573	0.47 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery	= 0.94%#	
47) 1,2-dichloroethane-d4 (s)	0.00	65	0d	0.00 ug/L	
Spiked Amount 50.000	Range 72 - 123		Recovery	= 0.00%#	
76) toluene-d8 (s)	0.00	98	0d	0.00 ug/L	
Spiked Amount 50.000	Range 78 - 119		Recovery	= 0.00%#	
100) 4-bromofluorobenzene (s)	0.00	95	0d	0.00 ug/L	
Spiked Amount 50.000	Range 74 - 119		Recovery	= 0.00%#	

Target Compounds					Qvalue
10) chloromethane	4.54	50	1115	0.53 ug/L #	48
11) vinyl chloride	4.80	62	898	0.45 ug/L #	49
12) bromomethane	5.52	94	624	0.48 ug/L	80
19) 1,1-dichloroethene	7.18	96	558	0.41 ug/L #	59
25) carbon disulfide	7.62	76	2588	0.56 ug/L	82
26) methylene chloride	7.98	84	776	0.49 ug/L #	65
28) methyl tert butyl ether	8.35	73	2303	0.53 ug/L	89
29) trans-1,2-dichloroethene	8.40	96	649	0.43 ug/L #	78
30) di-isopropyl ether	9.02	45	2417	0.52 ug/L #	68
32) 1,1-dichloroethane	9.03	63	1319	0.51 ug/L	89
38) 2,2-dichloropropane	9.82	77	1018	0.50 ug/L	81
39) cis-1,2-dichloroethene	9.83	96	733	0.45 ug/L	82
44) chloroform	10.23	85	944	0.55 ug/L #	74
50) 1,1,1-trichloroethane	10.49	97	1056	0.48 ug/L	85
51) Cyclohexane	10.56	84	1042	0.51 ug/L #	80
55) carbon tetrachloride	10.71	117	988	0.49 ug/L	72
56) 1,1-dichloropropene	10.68	75	1013	0.53 ug/L #	57
60) benzene	10.95	78	3048	0.52 ug/L	95
63) isopropyl acetate	10.90	43	1488	0.58 ug/L	58
64) 1,2-dichloroethane	10.97	62	800	0.43 ug/L #	50
66) trichloroethene	11.68	95	725	0.50 ug/L	91
68) methyl methacrylate	11.95	41	954	0.46 ug/L #	55
71) 1,2-dichloropropane	11.93	63	569	0.40 ug/L #	49
72) dibromomethane	12.09	93	363	0.42 ug/L	90
74) bromodichloromethane	12.22	83	1026	0.52 ug/L	94
75) cis-1,3-dichloropropene	12.66	75	1241	0.52 ug/L	83
78) toluene	13.01	92	1853	0.53 ug/L	98
80) trans-1,3-dichloropropene	13.20	75	1046	0.49 ug/L	86
81) ethyl methacrylate	13.19	69	786	0.45 ug/L	83
82) 1,1,2-trichloroethane	13.40	83	465	0.44 ug/L	93
85) tetrachloroethene	13.56	164	525	0.43 ug/L	85
86) 1,3-dichloropropane	13.57	76	996	0.47 ug/L	88
89) dibromochloromethane	13.82	129	730	0.47 ug/L	83

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145761.D
Acq On : 2 Apr 2014 7:57 pm
Operator : thomass1
Sample : IC6216-0.5
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 07 09:57:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:14:50 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
90) 1,2-dibromoethane	13.96	107	661	0.49 ug/L	94
91) chlorobenzene	14.39	112	2239	0.57 ug/L	92
92) 1,1,1,2-tetrachloroethane	14.45	131	722	0.49 ug/L	81
93) ethylbenzene	14.44	91	3515	0.52 ug/L	98
94) m,p-xylene	14.54	106	2657	1.05 ug/L	91
95) o-xylene	14.94	106	1226	0.50 ug/L	87
96) styrene	14.94	104	2153	0.51 ug/L	95
97) bromoform	15.19	173	533	0.50 ug/L #	35
99) isopropylbenzene	15.25	105	3245	0.53 ug/L	96
102) bromobenzene	15.62	156	944	0.55 ug/L	82
103) 1,1,2,2-tetrachloroethane	15.54	83	1029	0.60 ug/L	81
106) n-propylbenzene	15.63	120	766	0.52 ug/L #	79
107) 2-chlorotoluene	15.77	126	753	0.50 ug/L	80
108) 4-chlorotoluene	15.86	126	812m	0.53 ug/L	
109) 1,3,5-trimethylbenzene	15.77	105	2691	0.53 ug/L	96
110) tert-butylbenzene	16.09	119	2335	0.55 ug/L	96
111) pentachloroethane	16.17	167	403	0.39 ug/L #	69
112) 1,2,4-trimethylbenzene	16.13	105	2793	0.55 ug/L	98
113) sec-butylbenzene	16.29	105	3978	0.61 ug/L	96
114) 1,3-dichlorobenzene	16.47	146	1720	0.55 ug/L	98
115) p-isopropyltoluene	16.40	119	3237	0.60 ug/L	97
116) 1,4-dichlorobenzene	16.55	146	1860	0.58 ug/L	94
117) 1,2-dichlorobenzene	16.92	146	1773	0.58 ug/L	95
119) n-butylbenzene	16.79	92	1778	0.65 ug/L	90
121) 1,3,5-TRICHLOROBENZENE	17.85	180	1750	0.72 ug/L	95
122) 1,2,4-trichlorobenzene	18.49	180	1551	0.72 ug/L	97
126) hexachloroethane	17.17	201	404	0.42 ug/L	93

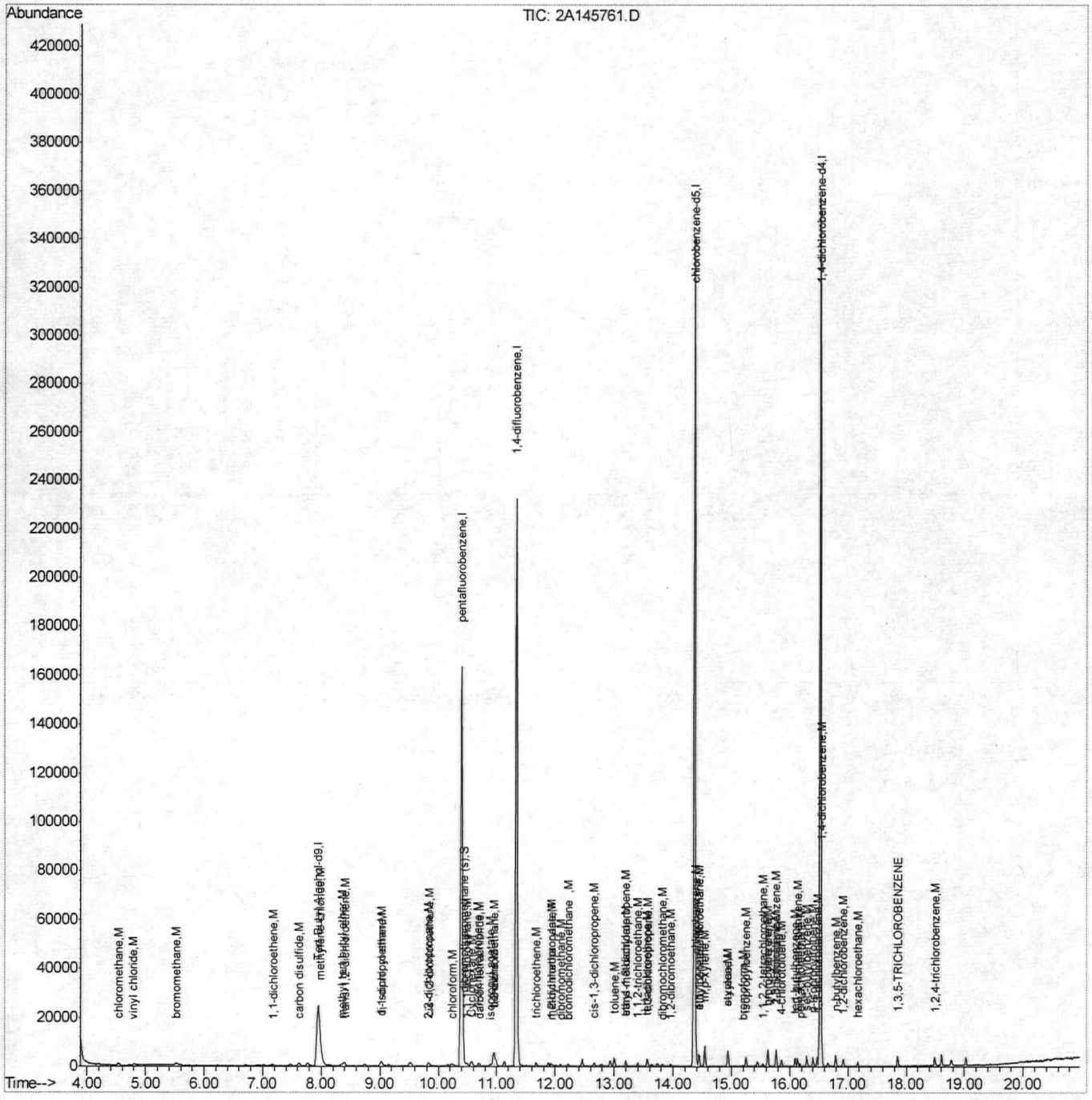
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.8

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145761.D
Acq On : 2 Apr 2014 7:57 pm
Operator : thomass1
Sample : IC6216-0.5
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 07 09:57:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:14:50 2014
Response via : Initial Calibration

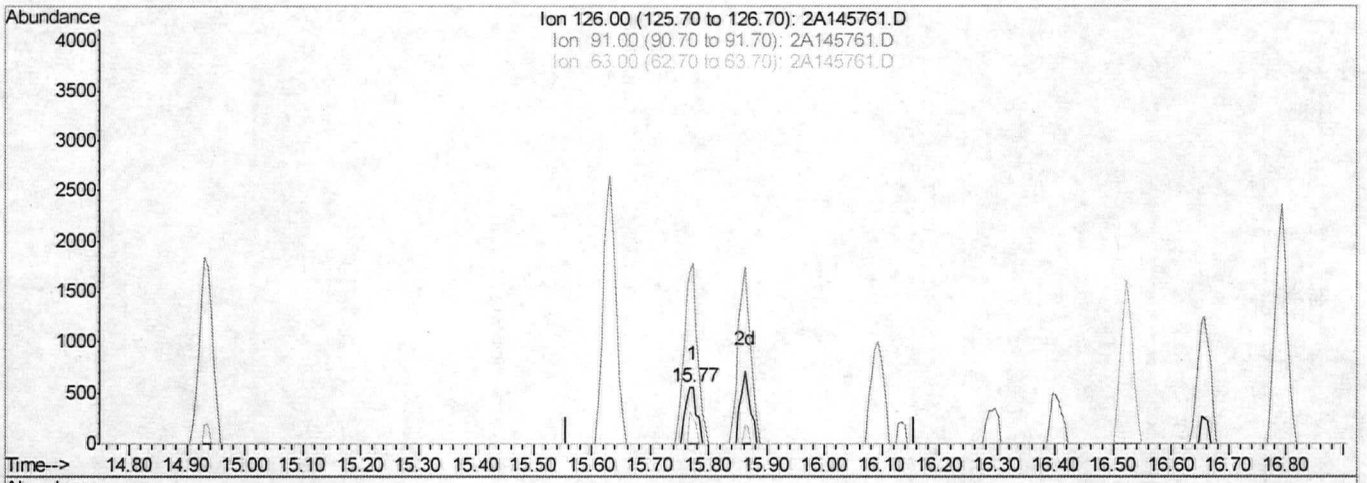


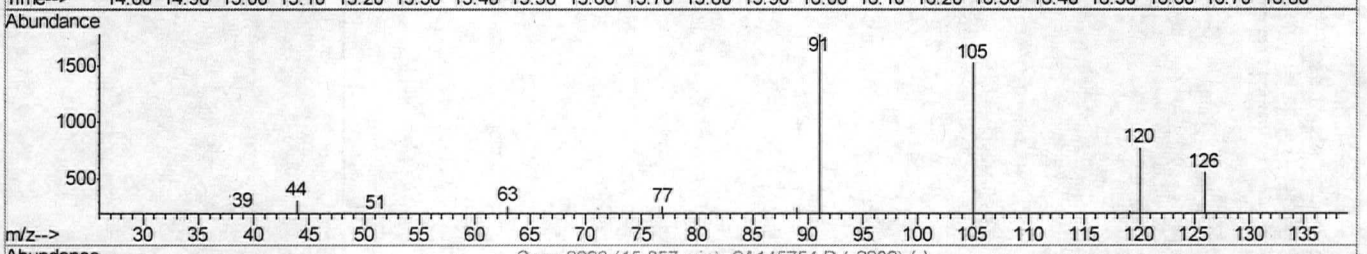
Quantitation Report (Qedit)

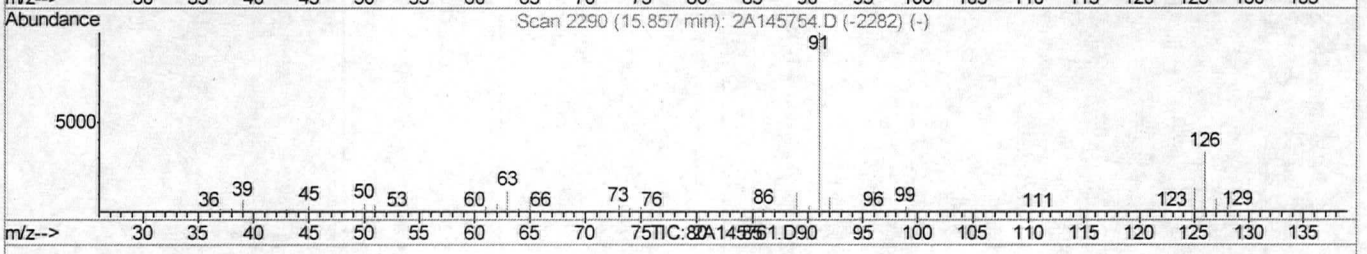
Data File : C:\MSDCHEM\1\DATA\2A145761.D Vial: 16
Acq On : 2 Apr 2014 7:57 pm Operator: thomass1
Sample : IC6216-0.5 Inst : Instrumen
Misc : MS65187,V2A6216,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Apr 03 12:24:27 2014 Results File: M2A6216.RES

Method : C:\MSDCHEM\1\METHODS\M2A6216.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
Last Update : Mon Apr 07 09:39:07 2014
Response via : Multiple Level Calibration







(108) 4-chlorotoluene (M)

15.77min 0.49ug/L

response 753

Ion	Exp%	Act%
126.00	100	100
91.00	294.80	284.20
63.00	34.40	46.50
0.00	0.00	0.00

2A145761.D M2A6216.M Mon Apr 07 09:57:08 2014 MS2A

7.6.8.1

ACCUTEST LABORATORIES JB66485

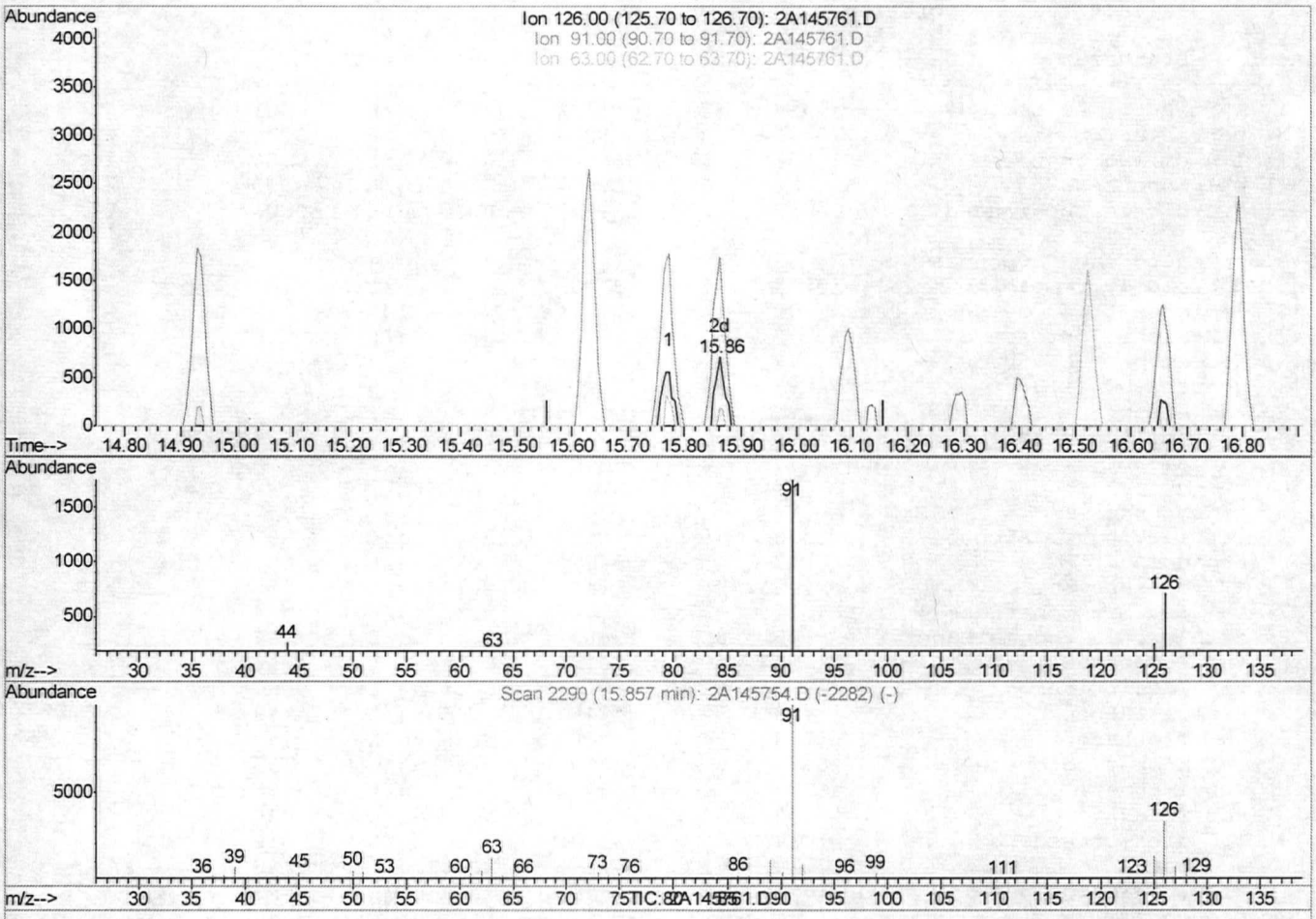
2A145761.D edits: 4-chlorotoluene

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\2A145761.D Vial: 16
Acq On : 2 Apr 2014 7:57 pm Operator: thomass1
Sample : IC6216-0.5 Inst : Instrumen
Misc : MS65187,V2A6216,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Apr 03 12:24:27 2014 Results File: M2A6216.RES

Method : C:\MSDCHEM\1\METHODS\M2A6216.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
Last Update : Mon Apr 07 09:39:07 2014
Response via : Multiple Level Calibration



(108) 4-chlorotoluene (M)

15.86min 0.53ug/L m

response 812

Ion	Exp%	Act%
126.00	100	100
91.00	294.80	246.48#
63.00	34.40	26.20
0.00	0.00	0.00

2A145761.D M2A6216.M Mon Apr 07 09:57:20 2014 MS2A

7.6.8.2

7

ACCUTEST LABORATORIES JB66485

2A145761.D edits: 4-chlorotoluene

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145762.D
Acq On : 2 Apr 2014 8:26 pm
Operator : thomass1
Sample : IC6216-5
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 03 08:15:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:15:25 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.94	65	64673	500.00 ug/L	-0.01
5) pentafluorobenzene	10.40	168	160926	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	236308	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	203995	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.53	152	101199	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	8703	6.41 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 12.82%#		
47) 1,2-dichloroethane-d4 (s)	10.87	65	9523	6.36 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 12.72%#		
76) toluene-d8 (s)	12.93	98	30011	6.16 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 12.32%#		
100) 4-bromofluorobenzene (s)	15.44	95	11451	6.16 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 12.32%#		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.08	59	3818	25.49 ug/L	82
3) Ethanol	6.57	45	5687	647.97 ug/L #	87
4) 1,4-dioxane	12.05	88	1354	114.19 ug/L #	66
7) chlorodifluoromethane	4.21	51	7249	5.65 ug/L	94
8) dichlorodifluoromethane	4.19	85	10452	5.55 ug/L	97
10) chloromethane	4.54	50	12412	5.33 ug/L	98
11) vinyl chloride	4.80	62	12011	5.54 ug/L	97
12) bromomethane	5.53	94	7745	5.43 ug/L	98
13) chloroethane	5.73	64	5266	5.55 ug/L	99
14) trichlorofluoromethane	6.25	101	12089	5.95 ug/L	93
16) ethyl ether	6.71	74	4582	5.36 ug/L	86
18) acrolein	6.99	56	15158	45.45 ug/L	99
19) 1,1-dichloroethene	7.17	96	8172	5.45 ug/L	89
20) acetone	7.26	43	1945	2.36 ug/L #	48
21) allyl chloride	7.76	76	4758	3.39 ug/L	97
22) acetonitrile	7.74	40	6957	58.41 ug/L #	49
23) iodomethane	7.47	142	14963	5.34 ug/L	99
24) iso-butyl alcohol	10.95	74	2774	59.26 ug/L #	90
25) carbon disulfide	7.62	76	27298	5.22 ug/L	97
26) methylene chloride	7.98	84	9175	5.24 ug/L	98
27) methyl acetate	7.77	74	893	3.33 ug/L #	58
28) methyl tert butyl ether	8.35	73	25084	5.19 ug/L	97
29) trans-1,2-dichloroethene	8.40	96	8866	5.33 ug/L	95
30) di-isopropyl ether	9.01	45	27954	5.49 ug/L	79
31) 2-butanone	9.83	72	665	4.15 ug/L #	1
32) 1,1-dichloroethane	9.03	63	15479	5.30 ug/L	99
33) chloroprene	9.14	53	12658	5.75 ug/L	97
34) acrylonitrile	8.35	53	14492	26.43 ug/L	94
35) vinyl acetate	9.03	86	999	3.68 ug/L	47
36) ethyl tert-butyl ether	9.52	59	27948	5.34 ug/L	97
37) ethyl acetate	9.84	45	876	4.35 ug/L #	30
38) 2,2-dichloropropane	9.83	77	12504	5.54 ug/L	98
39) cis-1,2-dichloroethene	9.83	96	9691	5.35 ug/L	94

7.6.9

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145762.D
Acq On : 2 Apr 2014 8:26 pm
Operator : thomass1
Sample : IC6216-5
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 03 08:15:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:15:25 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
40) methylacrylate	9.92	85	781	3.50 ug/L #	1
41) propionitrile	9.91	54	10696	52.90 ug/L	96
42) bromochloromethane	10.16	128	4754	5.53 ug/L	97
43) tetrahydrofuran	10.21	42	2604	5.14 ug/L	93
44) chloroform	10.23	85	9975	5.14 ug/L	98
45) t-butyl formate	10.26	59	7237	5.50 ug/L	96
48) freon 113	7.15	151	5984	5.65 ug/L	97
49) methacrylonitrile	10.10	41	4738	5.78 ug/L	94
50) 1,1,1-trichloroethane	10.49	97	12984	5.31 ug/L	97
51) Cyclohexane	10.56	84	11744	5.09 ug/L	84
53) epichlorohydrin	12.57	57	3713	27.76 ug/L	93
54) n-butyl alcohol	11.48	56	9303	268.86 ug/L	95
55) carbon tetrachloride	10.70	117	12234	5.45 ug/L	92
56) 1,1-dichloropropene	10.67	75	11477	5.29 ug/L	97
57) hexane	8.73	57	9595	5.54 ug/L	97
58) TERT AMYL ALCOHOL	10.89	59	1275	50.98 ug/L #	100
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	26698	5.02 ug/L #	98
60) benzene	10.95	78	34003	5.18 ug/L	100
61) tert-amyl methyl ether	10.99	87	6342	5.64 ug/L #	86
62) heptane	11.13	57	4964	5.41 ug/L	98
63) isopropyl acetate	10.88	43	15107	5.37 ug/L	98
64) 1,2-dichloroethane	10.96	62	11093	5.40 ug/L	95
65) Ethyl Acrylate	11.88	55	10088	5.32 ug/L	97
66) trichloroethene	11.67	95	8954	5.45 ug/L	97
67) TERT-AMYL ETHYL ETHER	11.99	59	402	7.70 ug/L #	65
68) methyl methacrylate	11.94	41	12302	5.31 ug/L	98
69) 2-nitropropane	12.42	41	2795	5.58 ug/L	99
70) 2-chloroethyl vinyl ether	12.45	63	19480	26.88 ug/L	98
71) 1,2-dichloropropane	11.93	63	8398	5.34 ug/L	97
72) dibromomethane	12.09	93	5333	5.42 ug/L	96
73) methylcyclohexane	11.88	83	12671	5.35 ug/L	99
74) bromodichloromethane	12.22	83	11598	5.26 ug/L	98
75) cis-1,3-dichloropropene	12.66	75	13924	5.23 ug/L	98
77) 4-methyl-2-pentanone	12.76	58	2806	5.10 ug/L	98
78) toluene	13.00	92	20878	5.31 ug/L	100
79) 3-methyl-1-butanol	12.78	55	6269	106.93 ug/L	93
80) trans-1,3-dichloropropene	13.19	75	12800	5.28 ug/L	98
81) ethyl methacrylate	13.19	69	10031	5.15 ug/L	95
82) 1,1,2-trichloroethane	13.40	83	6211	5.30 ug/L	95
83) 2-hexanone	13.56	58	2595	5.26 ug/L	86
85) tetrachloroethene	13.56	164	7456	5.56 ug/L	95
86) 1,3-dichloropropane	13.57	76	12372	5.27 ug/L	94
87) butyl acetate	13.63	56	4852	5.63 ug/L	97
88) 3,3-dimethyl-1-butanol	13.73	57	7811	53.55 ug/L	96
89) dibromochloromethane	13.82	129	9174	5.29 ug/L	97
90) 1,2-dibromoethane	13.96	107	7811	5.19 ug/L	98
91) chlorobenzene	14.39	112	22630	5.17 ug/L	97
92) 1,1,1,2-tetrachloroethane	14.44	131	8634	5.25 ug/L	98
93) ethylbenzene	14.44	91	38817	5.21 ug/L	99
94) m,p-xylene	14.54	106	29161	10.37 ug/L	98

7.6.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145762.D
Acq On : 2 Apr 2014 8:26 pm
Operator : thomass1
Sample : IC6216-5
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 03 08:15:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:15:25 2014
Response via : Initial Calibration

7.6.9

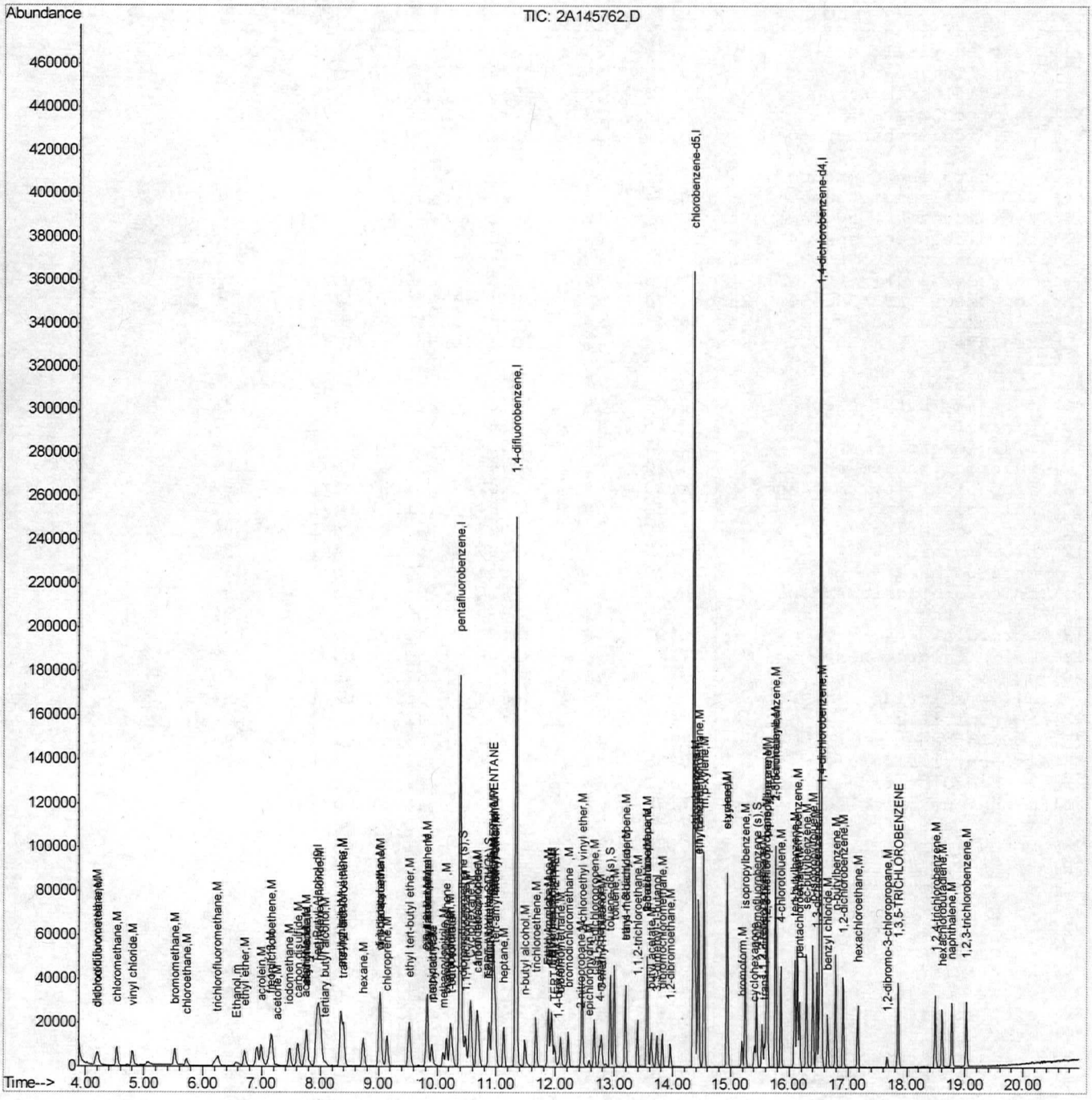
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
95) o-xylene	14.93	106	14623	5.31 ug/L	96
96) styrene	14.94	104	24084	5.15 ug/L	98
97) bromoform	15.19	173	6116	5.06 ug/L	95
99) isopropylbenzene	15.25	105	36679	5.32 ug/L	100
101) cyclohexanone	15.41	98	1699	73.97 ug/L	88
102) bromobenzene	15.62	156	10236	5.27 ug/L	96
103) 1,1,2,2-tetrachloroethane	15.54	83	10002	5.09 ug/L	99
104) trans-1,4-dichloro-2-buten	15.57	53	2156	5.20 ug/L	96
105) 1,2,3-trichloropropane	15.61	110	2522	5.38 ug/L	91
106) n-propylbenzene	15.63	120	9075	5.36 ug/L	95
107) 2-chlorotoluene	15.77	126	9025	5.36 ug/L	85
108) 4-chlorotoluene	15.86	126	9468	5.54 ug/L	96
109) 1,3,5-trimethylbenzene	15.77	105	29898	5.22 ug/L	98
110) tert-butylbenzene	16.09	119	24864	5.20 ug/L	99
111) pentachloroethane	16.17	167	6334	5.45 ug/L	97
112) 1,2,4-trimethylbenzene	16.13	105	30022	5.28 ug/L	97
113) sec-butylbenzene	16.29	105	38196	5.18 ug/L	99
114) 1,3-dichlorobenzene	16.47	146	18890	5.33 ug/L	95
115) p-isopropyltoluene	16.40	119	32098	5.25 ug/L	99
116) 1,4-dichlorobenzene	16.55	146	19206	5.28 ug/L	97
117) 1,2-dichlorobenzene	16.92	146	17850	5.18 ug/L	99
118) benzyl chloride	16.65	91	18821	5.47 ug/L	99
119) n-butylbenzene	16.79	92	16234	5.19 ug/L	94
120) 1,2-dibromo-3-chloropropan	17.67	75	1602	5.56 ug/L	89
121) 1,3,5-TRICHLOROBENZENE	17.86	180	14206	5.02 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	12223	4.93 ug/L	99
123) hexachlorobutadiene	18.61	225	6932	4.70 ug/L	95
124) naphthalene	18.78	128	25805	4.86 ug/L	99
125) 1,2,3-trichlorobenzene	19.02	180	11187	4.96 ug/L	99
126) hexachloroethane	17.17	201	5651	5.25 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145762.D
Acq On : 2 Apr 2014 8:26 pm
Operator : thomass1
Sample : IC6216-5
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 03 08:15:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Thu Apr 03 08:15:25 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66485

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145765.D
Acq On : 3 Apr 2014 10:56 am
Operator : thomass1
Sample : ICV6216-50
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 10:09:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.95	65	76753	500.00 ug/L	0.00
5) pentafluorobenzene	10.40	168	171725	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	250657	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	212107	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.53	152	109844	50.00 ug/L	0.00

System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	90025	57.83 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 115.66%		
47) 1,2-dichloroethane-d4 (s)	10.87	65	99832	56.93 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 113.86%		
76) toluene-d8 (s)	12.93	98	313285	58.58 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 117.16%		
100) 4-bromofluorobenzene (s)	15.44	95	116837	55.91 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 111.82%		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.09	59	47904	271.60 ug/L	92
3) Ethanol	6.55	45	80065	7436.78 ug/L	97
4) 1,4-dioxane	12.04	88	20953	1437.70 ug/L	99
7) chlorodifluoromethane	4.22	51	78452	53.13 ug/L	99
8) dichlorodifluoromethane	4.20	85	110802	51.37 ug/L	97
10) chloromethane	4.56	50	131287	51.77 ug/L	97
11) vinyl chloride	4.83	62	125673	53.08 ug/L	99
12) bromomethane	5.53	94	81989	52.74 ug/L	98
13) chloroethane	5.73	64	71911	65.79 ug/L	98
14) trichlorofluoromethane	6.26	101	137810	56.21 ug/L	99
16) ethyl ether	6.70	74	52548	55.98 ug/L	94
18) acrolein	6.98	56	188193	543.91 ug/L	100
19) 1,1-dichloroethene	7.17	96	83166	50.88 ug/L	98
20) acetone	7.23	43	26197	57.21 ug/L	90
21) allyl chloride	7.76	76	54814	56.82 ug/L	97
22) acetonitrile	7.72	40	74431	542.73 ug/L	92
23) iodomethane	7.48	142	154293	50.55 ug/L	99
24) iso-butyl alcohol	10.95	74	30000	497.79 ug/L #	91
25) carbon disulfide	7.61	76	284344	49.92 ug/L	99
26) methylene chloride	7.98	84	95082	49.91 ug/L	99
27) methyl acetate	7.75	74	14090	45.24 ug/L	95
28) methyl tert butyl ether	8.35	73	533481	101.47 ug/L	96
29) trans-1,2-dichloroethene	8.39	96	90126	49.72 ug/L	99
30) di-isopropyl ether	9.01	45	289436	53.28 ug/L	75
31) 2-butanone	9.80	72	10717	56.34 ug/L	94
32) 1,1-dichloroethane	9.03	63	163270	51.25 ug/L	97
33) chloroprene	9.14	53	119228	47.57 ug/L	98
34) acrylonitrile	8.34	53	170987	285.84 ug/L	99
35) vinyl acetate	9.02	86	18018	54.85 ug/L	83
36) ethyl tert-butyl ether	9.52	59	286962	51.53 ug/L	99
37) ethyl acetate	9.82	45	11940	51.66 ug/L	92
38) 2,2-dichloropropane	9.83	77	133425	54.10 ug/L	97
39) cis-1,2-dichloroethene	9.83	96	101431	51.35 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145765.D
Acq On : 3 Apr 2014 10:56 am
Operator : thomass1
Sample : ICV6216-50
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 10:09:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
40) methylacrylate	9.90	85	13925	50.55 ug/L	98
41) propionitrile	9.89	54	129384	564.09 ug/L	98
42) bromochloromethane	10.16	128	50225	50.98 ug/L	99
43) tetrahydrofuran	10.21	42	29429	53.58 ug/L	96
44) chloroform	10.23	85	104881	49.54 ug/L	97
45) t-butyl formate	10.26	59	85928	55.92 ug/L	99
48) freon 113	7.14	151	62888	50.51 ug/L	98
49) methacrylonitrile	10.09	41	52860	54.41 ug/L	97
50) 1,1,1-trichloroethane	10.49	97	137892	51.67 ug/L	99
51) Cyclohexane	10.56	84	125609	50.26 ug/L	92
53) epichlorohydrin	12.57	57	36218	240.99 ug/L	97
54) n-butyl alcohol	11.47	56	119104	2866.05 ug/L	100
55) carbon tetrachloride	10.70	117	127287	52.17 ug/L	96
56) 1,1-dichloropropene	10.67	75	115847	49.19 ug/L	99
57) hexane	8.73	57	108496	57.08 ug/L	99
59) 2,2,4-TRIMETHYLPENTANE	10.96	57	272920	52.87 ug/L #	99
60) benzene	10.95	78	360889	50.71 ug/L	100
61) tert-amyl methyl ether	10.99	87	65581	51.21 ug/L	99
62) heptane	11.13	57	54285	54.40 ug/L	97
63) isopropyl acetate	10.88	43	171691	57.59 ug/L	99
64) 1,2-dichloroethane	10.97	62	118353	53.09 ug/L	98
66) trichloroethene	11.67	95	90517	50.61 ug/L	97
68) methyl methacrylate	11.93	41	134244	53.55 ug/L	98
69) 2-nitropropane	12.43	41	30262	53.25 ug/L	100
70) 2-chloroethyl vinyl ether	12.45	63	218139	270.38 ug/L	100
71) 1,2-dichloropropane	11.93	63	91636	53.71 ug/L	99
72) dibromomethane	12.09	93	56677	53.10 ug/L	96
73) methylcyclohexane	11.88	83	136352	52.64 ug/L	98
74) bromodichloromethane	12.22	83	126472	52.77 ug/L	99
75) cis-1,3-dichloropropene	12.66	75	148004	51.27 ug/L	96
77) 4-methyl-2-pentanone	12.75	58	34178	55.29 ug/L	97
78) toluene	13.00	92	215178	50.33 ug/L	97
79) 3-methyl-1-butanol	12.78	55	77376	1165.99 ug/L	98
80) trans-1,3-dichloropropene	13.19	75	133311	50.65 ug/L	98
81) ethyl methacrylate	13.18	69	112755	53.41 ug/L	97
82) 1,1,2-trichloroethane	13.40	83	67038	52.78 ug/L	96
83) 2-hexanone	13.56	58	31488	55.84 ug/L	94
85) tetrachloroethene	13.56	164	74906	52.28 ug/L	98
86) 1,3-dichloropropane	13.57	76	129256	51.79 ug/L	99
87) butyl acetate	13.63	56	54420	54.76 ug/L	99
88) 3,3-dimethyl-1-butanol	13.72	57	90723	577.79 ug/L	99
89) dibromochloromethane	13.82	129	98267	53.12 ug/L	99
90) 1,2-dibromoethane	13.96	107	83946	52.60 ug/L	97
91) chlorobenzene	14.39	112	233991	50.22 ug/L	98
92) 1,1,1,2-tetrachloroethane	14.45	131	90338	51.57 ug/L	98
93) ethylbenzene	14.44	91	401768	50.67 ug/L	99
94) m,p-xylene	14.54	106	303081	101.52 ug/L	100
95) o-xylene	14.93	106	149554	51.06 ug/L	97
96) styrene	14.94	104	262307	52.74 ug/L	99
97) bromoform	15.19	173	70819	55.21 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A145765.D
Acq On : 3 Apr 2014 10:56 am
Operator : thomass1
Sample : ICV6216-50
Misc : MS65187,V2A6216,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 10:09:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
99) isopropylbenzene	15.25	105	383506	50.00 ug/L	98
101) cyclohexanone	15.41	98	17288	647.03 ug/L	94
102) bromobenzene	15.62	156	108519	50.25 ug/L	95
103) 1,1,2,2-tetrachloroethane	15.54	83	104778	48.08 ug/L	99
104) trans-1,4-dichloro-2-buten	15.57	53	27167	58.68 ug/L	97
105) 1,2,3-trichloropropane	15.61	110	26670	51.08 ug/L	99
106) n-propylbenzene	15.63	120	101484	54.09 ug/L	90
107) 2-chlorotoluene	15.77	126	94341	50.40 ug/L	98
108) 4-chlorotoluene	15.86	126	96427	50.28 ug/L	97
109) 1,3,5-trimethylbenzene	15.77	105	319102	50.19 ug/L	99
110) tert-butylbenzene	16.09	119	265025	49.91 ug/L	99
111) pentachloroethane	16.18	167	69571	53.75 ug/L	97
112) 1,2,4-trimethylbenzene	16.13	105	330672	52.32 ug/L	99
113) sec-butylbenzene	16.29	105	399543	48.81 ug/L	99
114) 1,3-dichlorobenzene	16.47	146	194925	49.42 ug/L	100
115) p-isopropyltoluene	16.40	119	339199	49.88 ug/L	99
116) 1,4-dichlorobenzene	16.55	146	199501	49.27 ug/L	100
117) 1,2-dichlorobenzene	16.92	146	189295	49.46 ug/L	99
118) benzyl chloride	16.65	91	244206	64.59 ug/L	100
119) n-butylbenzene	16.79	92	177384	50.89 ug/L	97
120) 1,2-dibromo-3-chloropropan	17.67	75	17740	52.81 ug/L	98
121) 1,3,5-TRICHLOROBENZENE	17.86	180	157915	50.35 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	138421	52.47 ug/L	99
123) hexachlorobutadiene	18.61	225	70249	49.88 ug/L	99
124) naphthalene	18.78	128	295734	52.27 ug/L	99
125) 1,2,3-trichlorobenzene	19.02	180	123327	52.46 ug/L	98
126) hexachloroethane	17.17	201	65251	54.74 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10 7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146757.D
Acq On : 9 May 2014 9:25 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67229,V2A6257,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 12:10:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.95	65	88302	500.00 ug/L	0.00
5) pentafluorobenzene	10.39	168	210358	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	291586	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	249643	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.52	152	135646	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.43	113	92552	48.53 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 97.06%		
47) 1,2-dichloroethane-d4 (s)	10.87	65	100449	46.76 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 93.52%		
76) toluene-d8 (s)	12.93	98	322852	51.90 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 103.80%		
100) 4-bromofluorobenzene (s)	15.44	95	116636	45.20 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 90.40%		

Target Compounds					Qvalue
2) tertiary butyl alcohol	8.08	59	19222	94.73 ug/L	97
4) 1,4-dioxane	12.04	88	9138	545.00 ug/L #	98
7) chlorodifluoromethane	4.21	51	33507	18.52 ug/L	98
8) dichlorodifluoromethane	4.19	85	56822	21.50 ug/L	98
10) chloromethane	4.55	50	61696	19.86 ug/L	97
11) vinyl chloride	4.83	62	57993	19.99 ug/L	98
12) bromomethane	5.53	94	37584	19.74 ug/L	97
13) chloroethane	5.73	64	26231	19.59 ug/L	97
14) trichlorofluoromethane	6.26	101	67723	22.55 ug/L	99
16) ethyl ether	6.71	74	21426	18.63 ug/L	99
18) acrolein	6.98	56	75440	177.99 ug/L	99
19) 1,1-dichloroethene	7.17	96	36915	18.44 ug/L	98
20) acetone	7.24	43	10668	19.02 ug/L	91
21) allyl chloride	7.76	76	19995	16.92 ug/L #	82
22) acetonitrile	7.73	40	33114	197.11 ug/L	92
23) iodomethane	7.47	142	72871	19.49 ug/L	98
24) iso-butyl alcohol	10.94	74	13172	189.14 ug/L #	59
25) carbon disulfide	7.61	76	127874	18.33 ug/L	97
26) methylene chloride	7.98	84	42283	18.12 ug/L	98
27) methyl acetate	7.76	74	5406	15.24 ug/L #	78
28) methyl tert butyl ether	8.35	73	118045	18.33 ug/L	100
29) trans-1,2-dichloroethene	8.40	96	41166	18.54 ug/L	97
30) di-isopropyl ether	9.01	45	130898	19.67 ug/L	91
31) 2-butanone	9.80	72	3943	16.92 ug/L #	77
32) 1,1-dichloroethane	9.02	63	73083	18.73 ug/L	98
33) chloroprene	9.14	53	57241	18.65 ug/L	95
34) acrylonitrile	8.35	53	65152	88.91 ug/L	98
35) vinyl acetate	9.02	86	5815	15.90 ug/L #	35
36) ethyl tert-butyl ether	9.52	59	126433	18.54 ug/L	99
37) ethyl acetate	9.83	45	4403	16.64 ug/L	68
38) 2,2-dichloropropane	9.83	77	63447	21.00 ug/L	98
39) cis-1,2-dichloroethene	9.83	96	45630	18.86 ug/L	95
40) methylacrylate	9.91	85	4893	15.57 ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146757.D
Acq On : 9 May 2014 9:25 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67229,V2A6257,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 12:10:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) propionitrile	9.89	54	50045	178.12 ug/L	94
42) bromochloromethane	10.16	128	22315	18.49 ug/L	96
43) tetrahydrofuran	10.20	42	12330	18.33 ug/L	89
44) chloroform	10.22	85	47185	18.20 ug/L	95
45) t-butyl formate	10.26	59	34746	18.46 ug/L	96
48) freon 113	7.14	151	29112	19.09 ug/L	95
49) methacrylonitrile	10.09	41	22631	19.02 ug/L	96
50) 1,1,1-trichloroethane	10.49	97	63236	19.34 ug/L	97
51) Cyclohexane	10.56	84	59786	19.53 ug/L	96
53) epichlorohydrin	12.56	57	16664	95.32 ug/L	98
54) n-butyl alcohol	11.47	56	49130	1016.29 ug/L	96
55) carbon tetrachloride	10.70	117	59083	20.82 ug/L	98
56) 1,1-dichloropropene	10.67	75	53820	19.64 ug/L	99
57) hexane	8.73	57	46027	20.82 ug/L	96
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	139617	23.25 ug/L #	99
60) benzene	10.95	78	157913	19.07 ug/L	99
61) tert-amyl methyl ether	10.99	87	28484	19.12 ug/L	96
62) heptane	11.13	57	27013	23.27 ug/L	95
63) isopropyl acetate	10.88	43	66006	19.03 ug/L	96
64) 1,2-dichloroethane	10.96	62	52662	20.31 ug/L	97
66) trichloroethene	11.67	95	40082	19.27 ug/L	98
68) methyl methacrylate	11.93	41	59874	20.53 ug/L	91
69) 2-nitropropane	12.43	41	13301	20.12 ug/L	98
70) 2-chloroethyl vinyl ether	12.45	63	96475	102.79 ug/L	99
71) 1,2-dichloropropane	11.92	63	39354	19.83 ug/L	97
72) dibromomethane	12.08	93	24280	19.55 ug/L	99
73) methylcyclohexane	11.88	83	60723	20.15 ug/L	99
74) bromodichloromethane	12.22	83	55466	19.89 ug/L	97
75) cis-1,3-dichloropropene	12.66	75	64301	19.15 ug/L	97
77) 4-methyl-2-pentanone	12.75	58	13127	18.25 ug/L	93
78) toluene	13.00	92	93443	18.79 ug/L	97
79) 3-methyl-1-butanol	12.78	55	30691	397.57 ug/L	98
80) trans-1,3-dichloropropene	13.19	75	58126	18.98 ug/L	90
81) ethyl methacrylate	13.18	69	43710	17.80 ug/L	89
82) 1,1,2-trichloroethane	13.39	83	27897	18.88 ug/L	99
83) 2-hexanone	13.56	58	12063	18.39 ug/L	88
85) tetrachloroethene	13.56	164	35427	21.01 ug/L	98
86) 1,3-dichloropropane	13.57	76	52839	17.99 ug/L	95
87) butyl acetate	13.63	56	20271	17.33 ug/L	93
88) 3,3-dimethyl-1-butanol	13.72	57	32049	173.42 ug/L	95
89) dibromochloromethane	13.82	129	42931	19.72 ug/L	99
90) 1,2-dibromoethane	13.95	107	34410	18.32 ug/L	98
91) chlorobenzene	14.39	112	102956	18.78 ug/L	98
92) 1,1,1,2-tetrachloroethane	14.44	131	41116	19.94 ug/L	97
93) ethylbenzene	14.44	91	174190	18.66 ug/L	98
94) m,p-xylene	14.54	106	135895	38.67 ug/L	94
95) o-xylene	14.93	106	67373	19.54 ug/L	98
96) styrene	14.94	104	112467	19.21 ug/L	97
97) bromoform	15.19	173	29836	19.76 ug/L	97
99) isopropylbenzene	15.25	105	172720	18.23 ug/L	98

7.6.11 7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146757.D
Acq On : 9 May 2014 9:25 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67229,V2A6257,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 12:10:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
101) cyclohexanone	15.41	98	7184	184.61 ug/L	96
102) bromobenzene	15.62	156	48570	18.21 ug/L	94
103) 1,1,2,2-tetrachloroethane	15.53	83	44069	16.37 ug/L	99
104) trans-1,4-dichloro-2-buten	15.57	53	10249	17.93 ug/L	89
105) 1,2,3-trichloropropane	15.61	110	10681	16.56 ug/L	94
106) n-propylbenzene	15.63	120	43183	18.64 ug/L #	89
107) 2-chlorotoluene	15.77	126	41954	18.15 ug/L	96
108) 4-chlorotoluene	15.86	126	43862	18.52 ug/L	96
109) 1,3,5-trimethylbenzene	15.77	105	145187	18.49 ug/L	100
110) tert-butylbenzene	16.09	119	121055	18.46 ug/L	98
111) pentachloroethane	16.17	167	31858	19.93 ug/L	98
112) 1,2,4-trimethylbenzene	16.13	105	142206	18.22 ug/L	100
113) sec-butylbenzene	16.29	105	186072	18.41 ug/L	99
114) 1,3-dichlorobenzene	16.47	146	91054	18.69 ug/L	98
115) p-isopropyltoluene	16.40	119	154460	18.39 ug/L	100
116) 1,4-dichlorobenzene	16.55	146	91721	18.34 ug/L	99
117) 1,2-dichlorobenzene	16.92	146	88270	18.68 ug/L	97
118) benzyl chloride	16.65	91	90665	19.42 ug/L	100
119) n-butylbenzene	16.79	92	77621	18.03 ug/L	96
120) 1,2-dibromo-3-chloropropan	17.67	75	6960	16.78 ug/L	93
121) 1,3,5-TRICHLOROBENZENE	17.85	180	75565	19.51 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	66761	20.49 ug/L	99
123) hexachlorobutadiene	18.60	225	36364	20.91 ug/L	98
124) naphthalene	18.77	128	131608	18.84 ug/L	99
125) 1,2,3-trichlorobenzene	19.02	180	58446	20.13 ug/L	97
126) hexachloroethane	17.16	201	30142	20.48 ug/L	97

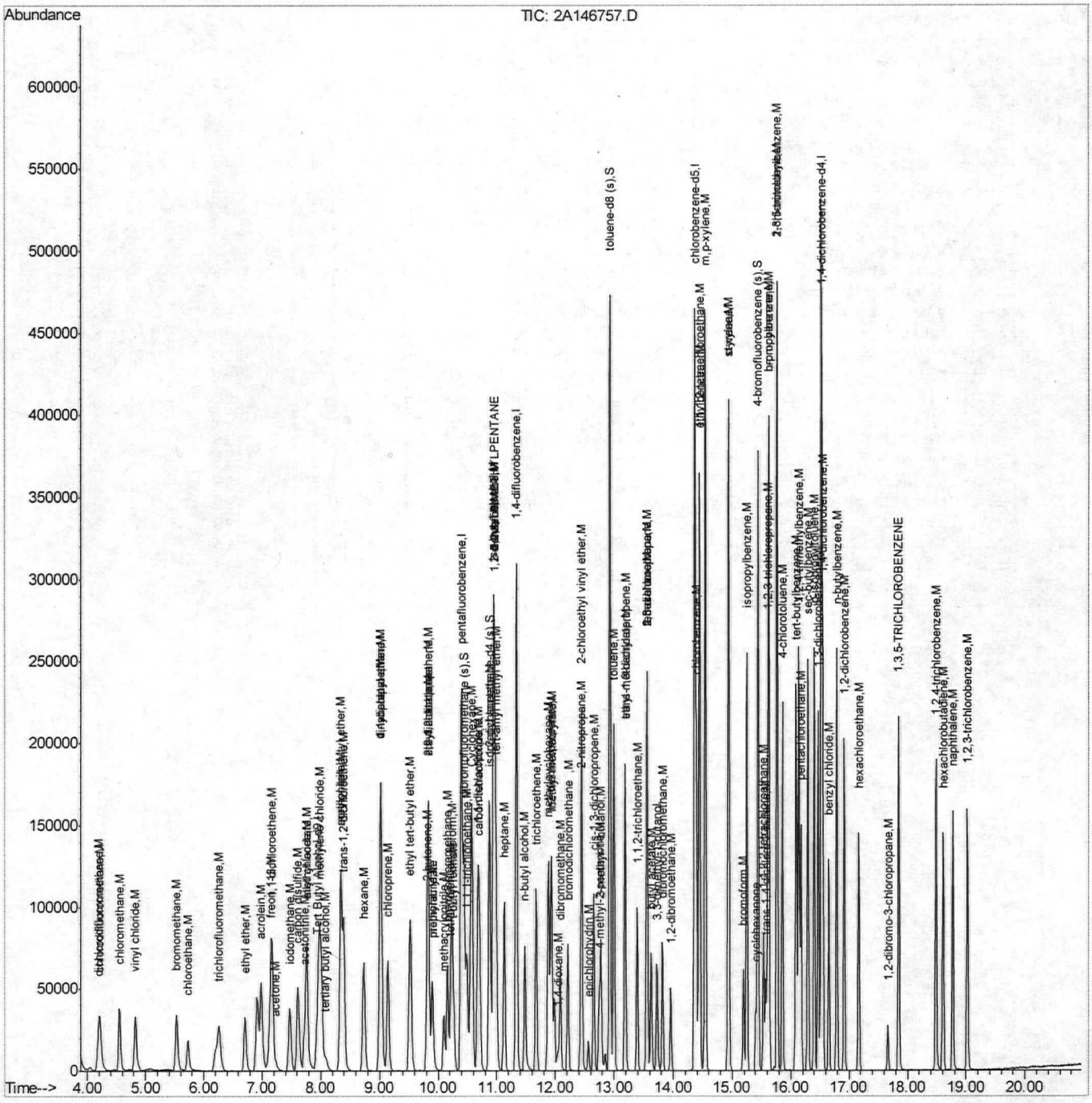
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.11 7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146757.D
Acq On : 9 May 2014 9:25 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67229,V2A6257,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 12:10:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES
JB66485

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146845.D
Acq On : 13 May 2014 9:07 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67410,V2A6260,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 16:04:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.95	65	74518	500.00 ug/L	0.00
5) pentafluorobenzene	10.39	168	186109	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.33	114	254592	50.00 ug/L	0.00
84) chlorobenzene-d5	14.36	117	223453	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.52	152	124784	50.00 ug/L	0.00
System Monitoring Compounds					
46) dibromofluoromethane (s)	10.44	113	82433	48.86 ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 97.72%		
47) 1,2-dichloroethane-d4 (s)	10.87	65	94431	49.69 ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 99.38%		
76) toluene-d8 (s)	12.93	98	285792	52.61 ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 105.22%		
100) 4-bromofluorobenzene (s)	15.44	95	106719	44.96 ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 89.92%		
Target Compounds					Qvalue
2) tertiary butyl alcohol	8.08	59	17299	101.02 ug/L	93
4) 1,4-dioxane	12.04	88	7571	535.07 ug/L #	98
7) chlorodifluoromethane	4.21	51	31593	19.74 ug/L	98
8) dichlorodifluoromethane	4.20	85	48416	20.71 ug/L	97
10) chloromethane	4.55	50	49164	17.89 ug/L	97
11) vinyl chloride	4.83	62	44751	17.44 ug/L	99
12) bromomethane	5.54	94	29062	17.25 ug/L	93
13) chloroethane	5.73	64	20794	17.55 ug/L	95
14) trichlorofluoromethane	6.26	101	58884	22.16 ug/L	99
16) ethyl ether	6.70	74	17477	17.18 ug/L	93
18) acrolein	6.98	56	65247	174.00 ug/L	99
19) 1,1-dichloroethene	7.17	96	30498	17.22 ug/L	96
20) acetone	7.24	43	8461	17.05 ug/L	81
21) allyl chloride	7.77	76	16531	15.81 ug/L #	80
22) acetonitrile	7.73	40	29446	198.12 ug/L #	76
23) iodomethane	7.47	142	60743	18.36 ug/L	98
24) iso-butyl alcohol	10.95	74	11476	186.51 ug/L #	15
25) carbon disulfide	7.61	76	105716	17.13 ug/L	93
26) methylene chloride	7.98	84	35552	17.22 ug/L	94
27) methyl acetate	7.76	74	4819	15.34 ug/L #	80
28) methyl tert butyl ether	8.35	73	99751	17.51 ug/L	97
29) trans-1,2-dichloroethene	8.40	96	34537	17.58 ug/L	98
30) di-isopropyl ether	9.01	45	120404	20.45 ug/L	92
31) 2-butanone	9.81	72	3085	14.96 ug/L #	73
32) 1,1-dichloroethane	9.02	63	61760	17.89 ug/L	96
33) chloroprene	9.14	53	52978	19.51 ug/L	96
34) acrylonitrile	8.35	53	54199	83.60 ug/L	99
35) vinyl acetate	9.03	86	5404	16.60 ug/L #	92
36) ethyl tert-butyl ether	9.52	59	115827	19.19 ug/L	99
37) ethyl acetate	9.82	45	4158	17.65 ug/L	84
38) 2,2-dichloropropane	9.83	77	54250	20.30 ug/L	92
39) cis-1,2-dichloroethene	9.83	96	37823	17.67 ug/L	95
40) methylacrylate	9.90	85	4047	14.66 ug/L	78

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146845.D
Acq On : 13 May 2014 9:07 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67410,V2A6260,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 16:04:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) propionitrile	9.89	54	42098	169.35 ug/L	96
42) bromochloromethane	10.16	128	19065	17.86 ug/L	99
43) tetrahydrofuran	10.21	42	10790	18.13 ug/L	94
44) chloroform	10.22	85	41200	17.96 ug/L	95
45) t-butyl formate	10.26	59	32654	19.61 ug/L	95
48) freon 113	7.15	151	26739	19.82 ug/L	95
49) methacrylonitrile	10.09	41	19243	18.28 ug/L	96
50) 1,1,1-trichloroethane	10.49	97	55221	19.09 ug/L	98
51) Cyclohexane	10.56	84	49703	18.35 ug/L	93
53) epichlorohydrin	12.57	57	15291	100.17 ug/L	99
54) n-butyl alcohol	11.47	56	43493	1030.41 ug/L	91
55) carbon tetrachloride	10.70	117	52607	21.23 ug/L	95
56) 1,1-dichloropropene	10.67	75	46440	19.41 ug/L	98
57) hexane	8.73	57	42174	21.85 ug/L	95
59) 2,2,4-TRIMETHYLPENTANE	10.95	57	125191	23.88 ug/L #	96
60) benzene	10.95	78	134608	18.62 ug/L	98
61) tert-amyl methyl ether	10.99	87	26038	20.02 ug/L	94
62) heptane	11.13	57	24358	24.03 ug/L	93
63) isopropyl acetate	10.88	43	61926	20.45 ug/L	95
64) 1,2-dichloroethane	10.97	62	48160	21.27 ug/L	97
66) trichloroethene	11.67	95	34608	19.05 ug/L	95
68) methyl methacrylate	11.93	41	54312	21.33 ug/L	88
69) 2-nitropropane	12.43	41	13365	23.15 ug/L	98
70) 2-chloroethyl vinyl ether	12.45	63	92612	113.02 ug/L	99
71) 1,2-dichloropropane	11.93	63	33871	19.55 ug/L	99
72) dibromomethane	12.09	93	21514	19.84 ug/L	96
73) methylcyclohexane	11.88	83	55078	20.93 ug/L	98
74) bromodichloromethane	12.21	83	48807	20.05 ug/L	99
75) cis-1,3-dichloropropene	12.66	75	55644	18.98 ug/L	93
77) 4-methyl-2-pentanone	12.75	58	11038	17.58 ug/L #	79
78) toluene	13.00	92	81072	18.67 ug/L	97
79) 3-methyl-1-butanol	12.78	55	28549	423.56 ug/L	98
80) trans-1,3-dichloropropene	13.19	75	52607	19.68 ug/L	86
81) ethyl methacrylate	13.18	69	38257	17.84 ug/L	86
82) 1,1,2-trichloroethane	13.39	83	24527	19.01 ug/L	98
83) 2-hexanone	13.56	58	10028	17.51 ug/L	90
85) tetrachloroethene	13.56	164	30217	20.02 ug/L	99
86) 1,3-dichloropropane	13.57	76	47143	17.93 ug/L	92
87) butyl acetate	13.63	56	19337	18.47 ug/L	87
88) 3,3-dimethyl-1-butanol	13.72	57	29919	180.87 ug/L	92
89) dibromochloromethane	13.82	129	38537	19.77 ug/L	98
90) 1,2-dibromoethane	13.95	107	30287	18.01 ug/L	99
91) chlorobenzene	14.39	112	91001	18.54 ug/L	99
92) 1,1,1,2-tetrachloroethane	14.45	131	36354	19.70 ug/L	99
93) ethylbenzene	14.44	91	155074	18.56 ug/L	99
94) m,p-xylene	14.54	106	119146	37.88 ug/L	98
95) o-xylene	14.93	106	59192	19.18 ug/L	95
96) styrene	14.94	104	100442	19.17 ug/L	93
97) bromoform	15.19	173	26962	19.95 ug/L	98
99) isopropylbenzene	15.25	105	150908	17.32 ug/L	98

7.6.12

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146845.D
Acq On : 13 May 2014 9:07 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67410,V2A6260,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 16:04:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
101) cyclohexanone	15.40	98	12009	376.25 ug/L	92
102) bromobenzene	15.62	156	44207	18.02 ug/L	96
103) 1,1,2,2-tetrachloroethane	15.54	83	39019	15.76 ug/L	99
104) trans-1,4-dichloro-2-buten	15.57	53	9773	18.58 ug/L #	78
105) 1,2,3-trichloropropane	15.60	110	9947	16.77 ug/L	97
106) n-propylbenzene	15.63	120	38378	18.01 ug/L #	85
107) 2-chlorotoluene	15.77	126	37992	17.87 ug/L	91
108) 4-chlorotoluene	15.86	126	39233	18.01 ug/L	94
109) 1,3,5-trimethylbenzene	15.76	105	127808	17.70 ug/L	99
110) tert-butylbenzene	16.09	119	106644	17.68 ug/L	99
111) pentachloroethane	16.17	167	28385	19.31 ug/L	98
112) 1,2,4-trimethylbenzene	16.13	105	127391	17.74 ug/L	100
113) sec-butylbenzene	16.29	105	160940	17.31 ug/L	100
114) 1,3-dichlorobenzene	16.47	146	82161	18.34 ug/L	98
115) p-isopropyltoluene	16.40	119	137308	17.77 ug/L	99
116) 1,4-dichlorobenzene	16.55	146	83436	18.14 ug/L	99
117) 1,2-dichlorobenzene	16.92	146	79616	18.31 ug/L	98
118) benzyl chloride	16.65	91	87498	20.37 ug/L	100
119) n-butylbenzene	16.79	92	69952	17.67 ug/L	95
120) 1,2-dibromo-3-chloropropan	17.67	75	6393	16.75 ug/L	95
121) 1,3,5-TRICHLOROBENZENE	17.85	180	64841	18.20 ug/L	99
122) 1,2,4-trichlorobenzene	18.49	180	55355	18.47 ug/L	98
123) hexachlorobutadiene	18.60	225	31231	19.52 ug/L	98
124) naphthalene	18.77	128	109789	17.08 ug/L	100
125) 1,2,3-trichlorobenzene	19.02	180	49202	18.42 ug/L	97
126) hexachloroethane	17.17	201	26320	19.44 ug/L	99

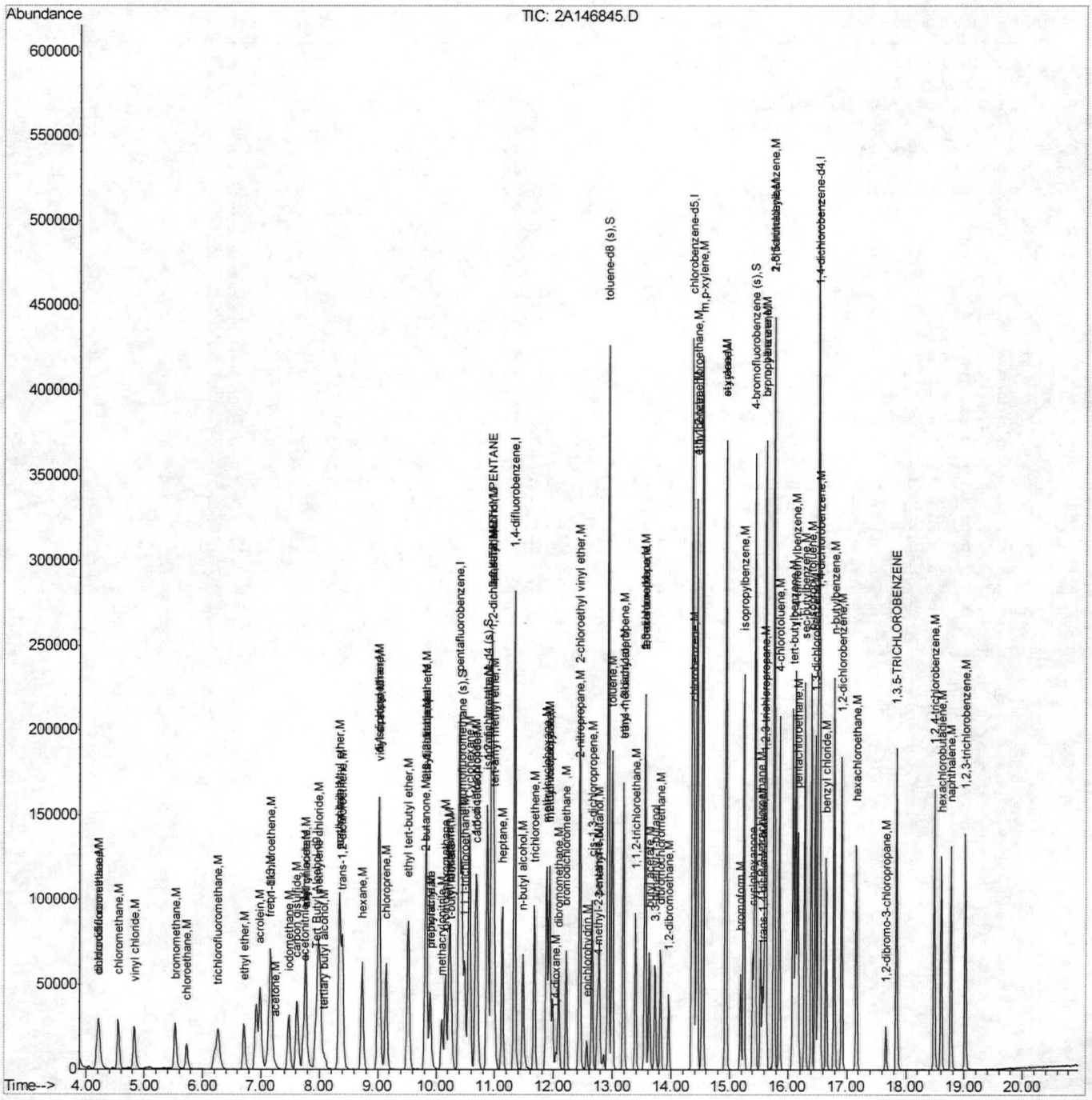
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.12 7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 2A146845.D
Acq On : 13 May 2014 9:07 am
Operator : thomass1
Sample : cc6216-20
Misc : MS67410,V2A6260,w,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 16:04:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2A6216.M
Quant Title : Method SW846 8260B, ZB624 60mx0.25mmx1.4um
QLast Update : Mon Apr 07 10:04:29 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES JB66485

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2A6216

Print Analyst Name: Thomas Sandella

Analyst Signature: [signature]

Date: 4/2/14

Columns: 2B624

Method V8260B

Initial Cal. Method MZ46216

Standard Data

Lot #	Description	Conc.
014-1522-56	Ext A	10ppm
-33	Ext B	↓
-44	Ext C	↓
39	Ext Acid	100ppm
↓ 39	Ext Ethanol	10000ppm
-17	Ext Acrylo	10000ppm

Standard Data

Lot #	Description	Conc.
014-1522-15	Std A	10ppm
-10	Std B	↓
-82	Std C	↓
-41	Acids	100ppm
-39	Ethanol	10000ppm
-576	Ext Halogenc	10ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

014-1522-31 Surrogate 10ppm

Supervisor Signature: [signature] **Date:** 4/17/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2A 145746	B,FB				1							OK	~~2~~ 1 ml Surrogate in 50 ml DI 1ml	
	145747	~~EC~~ IC6216-0.2				2							NOT USED	1 ml A,B,C, ethanol, Acid, surrogate in 50 ml DI	
	145748	IC6216-0.5				3							↓	1 ml A,B,C, ethanol, Acid, surrogate in 50 ml DI	
	145749	IC6216-1				4							OK	1 ml A,B,C, ethanol, surrogate, 50 ml Acid in 50 ml DI	
	145750	IC6216-2				5							OK	2 ml A,B,C, ethanol, surrogate 10 ml Acid in 100 ml DI	
	145751	IC6216-5				6							NOT USED	5 ml A,B,C, Acid, ethanol, surrogate, in 100 ml DI	
	145752	IC6216-10				7							OK	10 ml A,B,C, Acid, ethanol, surrogate in 50 ml DI	
	145753	IC6216-20				8							OK	10 ml A,B,C, Acid, ethanol 20 ml surrogate in 50 ml DI	
	145754	IC6216-50				9							OK	20 ml A,B,C, Acid, ethanol 50 ml surrogate in 50 ml DI	
	145755	IC6216-100				10							OK	50 ml A,B,C, Acid, ethanol in 50 ml DI	
	145756	IC6216-200				11							OK	100 ml A,B,C, ethanol, surrogate in 50 ml DI	
	145757	IB				12							—		
	145758	IB				13							—		
	145759	IB				14							—		
	145760	IC6216-0.2				15							NOT USED	2 ml A,B,C, Acid, ethanol, surrogate in 100 ml DI	
	145761	IC6216-0.5 ~~IC6216 134/716~~				16							OK	5 ml A,B,C, Acid, ethanol, surrogate in 100 ml DI	
	145762	IC6216-5				17							OK ~~NOT~~	20 ml A,B,C, Acid, ethanol, surrogate in 250 ml DI.	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result .

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

105

7.7.1

7

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2A6216

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Date: 4/2/14

Standard Data

Lot #	Description	Conc.
---	See Pg 105	

Standard Data

Lot #	Description	Conc.
	See Pg 105	

Columns: ZB624

Method V8260B

Initial Cal. Method M2A6126

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] **Date:** 4/17/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L +	I S	S U	Status (Data)	Comments	pH* < 2
	2A 145763 ~~145763~~	ICV6216-50				18							NG	[illegible]	
	145764	BFB2				1							OK		
	145765	ICV6216-50				2							OK	[illegible]	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

107

7.7.1

7

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2A6257

Print Analyst Name: Cathleen Castello

Analyst Signature: [illegible]

Date: 5/9/14

VOB-1822- Standard Data

Lot #	Description	Conc.
129	Ext. A	100ppm
128	B	↓
149	C	↓
92	IS	250/250ppm

VOB-1822- Standard Data

Lot #	Description	Conc.
119	STD. A	100ppm
127	B	↓
130	C	↓
89	ACRO	1000ppm
93	Ext. ACRO	↓

Columns: ZB624

Method V8260B

Initial Cal. Method M2A6216

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 5/13/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2A146756	BFB				1							OK	18:52am	
	146757	CC6216-20				2	5						OK	STD ABC ACRO 10ul/50ml	
	146758	IB				3							—		
	146759	MB				4	5			✓	✓	✓	OK		
	146760	BS				5	5				✓	✓	OK	Ext. ABC ACRO 25ul/50ml	
	146761	IB				6					✓	✓	—		
	146762	2B66485-14	67264 SL	GW	1	7	5		1X		✓	✓	OK	UTCQC	✓
	146763	2B66464-6	67239 TRZ04	ERB	1	8	5		1X	✓	✓	✓	OK		✓
R	146764	2B66464-4	↓	GW	2	9	5		1X	✓	✓	✓	OK		✓
DL	146765	2B66464-3	↓	↓	2	10	2.5/50		20X	✓	✓	✓	OK	+2A	✓
R	146766	2B66464-5	↓	↓	4	11	5		1X	✓	✓	✓	OK		✓
	146767	2B66485-14MS	67264 SL	↓	4	12	5		1X		✓	✓	OK	STD. ABC ACRO 25ul/ml	✓
	146768	2B66485-14MSD	↓	↓	4	13	5		1X		✓	✓	OK	↓	✓
	146769	IB				14					✓	✓	—		
	146770	2B66485-15	67264 SL	GW	1	15	5		1X		✓	✓	OK	UTCQC	✓
	146771	2B66485-16	↓	↓	1	16	5		1X		✓	✓	OK	↓	✓
	146772	2B66485-17	↓	↓	1	17	5		1X		✓	✓	OK	↓	✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

267

7.7.2

7

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2A6257

Print Analyst Name: Cathleen Costello

Analyst Signature: cc

Date: 5/9/14

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	-See Page 267	

Columns: 7860A

Method V8260B

Initial Cal. Method M2A6216

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: RPates Date: 5/13/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2A46773	JB66485-18	67264 SL	GW	1	18	S		1X		✓	✓	ok	VTCAC	✓
	146774	JB66485-19			1	19	S		1X		✓	✓	ok		✓
	146775	JB66485-10		NEW	1	20	S		1X		✓	✓	ok		✓
	146776	JB66485-11		GW	1	21	S		1X		✓	✓	ok		✓
	146777	JB66485-12			1	22	S		1X		✓	✓	ok		✓
	146778	JB66485-13			1	23	S		1X		✓	✓	ok		✓
R	146779	JB66486-1	67205 MATRIX IT		2	24	S		1X	✓	✓	✓	ok	(8:45pm)	✓

cc 5/9/14

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2A6260

Print Analyst Name: Cathleen Castillo
Analyst Signature: CC

Date: 5/13/14

V013-1826 Standard Data

Lot #	Description	Conc.
121	EXT A	100ppm
128	B	↓
141	C	↓
124	IS	200/2ml

V013-1822 Standard Data

Lot #	Description	Conc.
118	STD. A	100ppm
127	B	↓
139	C	↓
89	ACRO	1000ppm
93	EXT ACRO	↓

Columns: ZB624

Method V8260B

Initial Cal. Method M2A6216

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: DPatel Date: 5/15/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	2A146844	BFB				1							OK	(8:37Am)	
	146845	CL6216-20				2	5						OK	STD ABC ACRO 10ml/50ml	
	146846	IB				3							—		
	146847	MB				4	5				VV		OK		
	146848	BS				5	5				VV		OK	EXT ABC ACRO 25ml/L	
	146849	IB				6					VV		—		✓
R	146850	JB66485-9	67264 SL	WTB	2	7	5		1X		VV		OK	VICGC	✓
R	146851	JB66485-1		WTB	2	8	5		1X		VV		OK		✓
R	146852	JB66485-2		CW	2	9	5		1X		VV		OK		✓
R	146853	JB66485-3			2	10	5		1X		VV		OK		✓
R	146854	JB66485-4			2	11	5		1X		VV		OK		✓
R	146855	JB66485-5			2	12	5		1X		VV		OK		✓
R	146856	JB66485-6			2	13	5		1X		VV		OK		✓
R	146857	JB66485-7			2	14	5		1X		VV		OK		✓
R	146858	JB66485-8			2	15	5		1X		VV		OK		✓
	146859	JB66485-4MS			1	16	5		1X		VV		OK	STD ABC ACRO 25ml/L	✓
	146860	JB66485-4MSD			1	17	5		1X		VV		OK		✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

279

7.7.3

7

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V2A6260

Print Analyst Name: Cathleen Costello

Analyst Signature: CC

Date: 5/13/14

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	-See Pag-	
	279	

Columns: ZB624

Method V8260B

Initial Cal. Method M2A6216

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/15/14

7.7.3

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
DL	2014b861	JB66692-5	67410 PAH8270MB	GW	2	18	1/50		50X		✓	✓	OK	+2A	✓
DL	146862	JB66692-7	↓	↓	2	19	0.2/50		250X		✓	✓	OK	+2A	✓
DL	146863	JB66467-5	67270 BNXM	↓	2	20	5/50		10X		✓	✓	OK	+1A	✓
	146864	JB66598-1	67334 TCL	IN	1	21	5/50		10X		✓	✓	OK/DL	FID RIDX	✓
	146865	JB66598-2	↓	EF	1	22	5		1X		✓	✓	OK		✓
	146866	JB66598-3	↓	GM	1	23	5		1X		✓	✓	OK		✓
	146867	JB66598-4	↓	↓	1	24	1/50		50X		✓	✓	OK/DL	FID RIDX 19:34pm	-
														CC 5/13/14	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

281

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07/23/14

Technical Report for

United Technologies Corporation

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

60312350

Accutest Job Number: JB66517

Sampling Dates: 05/06/14 - 05/07/14

Report to:

AECOM
27755 Diehl Road Suite 100
Warrenville, IL 60555
peter.hollatz@aecom.com

ATTN: Peter Hollatz

Total number of pages in report: **218**

NELAP ACCREDITED TNI LABORATORY

Nancy L. Cole
Nancy Cole
Laboratory Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Sections:

2 3 4 5 6 7

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Summary of Hits 6
Section 4: Sample Results **8**
4.1: JB66517-1: HSSER-RAMW08-050614 9
4.2: JB66517-2: HSSER-RAMW07-050614 10
4.3: JB66517-3: HSSER-RAMW06-050614 11
4.4: JB66517-4: HSSER-RAMW05-050614 12
4.5: JB66517-5: HSSER-EBLK02-050614 13
4.6: JB66517-6: HSSER-RAMW04-050614 14
4.7: JB66517-7: HSSER-RAMW03-050614 15
4.8: JB66517-8: HSSER-RAMW02-050614 16
4.9: JB66517-9: HSSER-DUP02-050614 17
4.10: JB66517-10: HSSER-TRIP01-050614 18
4.11: JB66517-11: HSSER-FBLK02-050714 19
4.12: JB66517-12: HSSER-RAMW01-050714 20
Section 5: Misc. Forms **21**
5.1: Chain of Custody 22
5.2: Sample Tracking Chronicle 26
5.3: Internal Chain of Custody 28
Section 6: GC/MS Volatiles - QC Data Summaries **30**
6.1: Method Blank Summary 31
6.2: Blank Spike Summary 33
6.3: Matrix Spike/Matrix Spike Duplicate Summary 35
6.4: Instrument Performance Checks (BFB) 37
6.5: Internal Standard Area Summaries 40
6.6: Surrogate Recovery Summaries 42
6.7: Initial and Continuing Calibration Summaries 43
Section 7: GC/MS Volatiles - Raw Data **58**
7.1: Samples 59
7.2: Method Blanks 129
7.3: Blank Spikes 133
7.4: Matrix Spike/Matrix Spike Duplicates 141
7.5: Instrument Performance Checks (BFB) 158
7.6: Initial and Continuing Calibarations 164
7.7: Instrument Run Logs 214

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Sample Summary

United Technologies Corporation

Job No: JB66517

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Project No: 60312350

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB66517-1	05/06/14	08:30 AH	05/08/14	AQ	Ground Water	HSSER-RAMW08-050614
JB66517-2	05/06/14	09:40 AH	05/08/14	AQ	Ground Water	HSSER-RAMW07-050614
JB66517-3	05/06/14	10:45 AH	05/08/14	AQ	Ground Water	HSSER-RAMW06-050614
JB66517-4	05/06/14	12:10 AH	05/08/14	AQ	Ground Water	HSSER-RAMW05-050614
JB66517-5	05/06/14	12:30 AH	05/08/14	AQ	Ground Water	HSSER-EBLK02-050614
JB66517-6	05/06/14	13:30 AH	05/08/14	AQ	Ground Water	HSSER-RAMW04-050614
JB66517-7	05/06/14	14:45 AH	05/08/14	AQ	Ground Water	HSSER-RAMW03-050614
JB66517-8	05/06/14	15:55 AH	05/08/14	AQ	Ground Water	HSSER-RAMW02-050614
JB66517-8D	05/06/14	15:55 AH	05/08/14	AQ	Water Dup/MSD	HSSER-MSD02-050614
JB66517-8S	05/06/14	15:55 AH	05/08/14	AQ	Water Matrix Spike	HSSER-MS02-050614
JB66517-9	05/06/14	00:00 AH	05/08/14	AQ	Ground Water	HSSER-DUP02-050614
JB66517-10	05/07/14	08:30 AH	05/08/14	AQ	Trip Blank Water	HSSER-TRIP01-050614
JB66517-11	05/07/14	07:45 AH	05/08/14	AQ	Field Blank Water	HSSER-FBLK02-050714

Sample Summary
(continued)

United Technologies Corporation

Job No: JB66517

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Project No: 60312350

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB66517-12	05/07/14	08:30 AH	05/08/14	AQ	Ground Water	HSSER-RAMW01-050714

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2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: United Technologies Corporation **Job No** JB66517

Site: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL **Report Date** 5/14/2014 6:00:03 PM

On 05/08/2014, 10 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 0.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB66517 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VU8478

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB66517-8MS, JB66517-8MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VU8483

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB66479-7MS, JB66479-7MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB66517
Account: United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Collected: 05/06/14 thru 05/07/14

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB66517-1	**HSSER-RAMW08-050614**					
1,1-Dichloroethane		0.0021	0.0010	0.00026	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.0015	0.0010	0.00024	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.0013	0.0010	0.00025	mg/l	SW846 8260B
JB66517-2	**HSSER-RAMW07-050614**					
1,1-Dichloroethane		0.0329	0.0010	0.00026	mg/l	SW846 8260B
1,1-Dichloroethene		0.0074	0.0010	0.00034	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.0109	0.0010	0.00024	mg/l	SW846 8260B
Tetrachloroethene		0.0084	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.248	0.010	0.0025	mg/l	SW846 8260B
Trichloroethene		0.0027	0.0010	0.00050	mg/l	SW846 8260B
JB66517-3	**HSSER-RAMW06-050614**					
1,1-Dichloroethane		0.0026	0.0010	0.00026	mg/l	SW846 8260B
1,1-Dichloroethene		0.0049	0.0010	0.00034	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.0037	0.0010	0.00024	mg/l	SW846 8260B
Tetrachloroethene		0.00026 J	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.259	0.010	0.0025	mg/l	SW846 8260B
Trichloroethene		0.0024	0.0010	0.00050	mg/l	SW846 8260B
JB66517-4	**HSSER-RAMW05-050614**					
1,1-Dichloroethane		0.00094 J	0.0010	0.00026	mg/l	SW846 8260B
1,1-Dichloroethene		0.00081 J	0.0010	0.00034	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.0032	0.0010	0.00024	mg/l	SW846 8260B
Tetrachloroethene		0.00029 J	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.0800	0.0010	0.00025	mg/l	SW846 8260B
Trichloroethene		0.0057	0.0010	0.00050	mg/l	SW846 8260B
JB66517-5	**HSSER-EBLK02-050614**					
No hits reported in this sample.						
JB66517-6	**HSSER-RAMW04-050614**					
1,1-Dichloroethane		0.00051 J	0.0010	0.00026	mg/l	SW846 8260B
Tetrachloroethene		0.00054 J	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.00067 J	0.0010	0.00025	mg/l	SW846 8260B

Summary of Hits

Job Number: JB66517
Account: United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Collected: 05/06/14 thru 05/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB66517-7	**HSSER-RAMW03-050614**					
1,1-Dichloroethane		0.00082 J	0.0010	0.00026	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.00082 J	0.0010	0.00024	mg/l	SW846 8260B
Tetrachloroethene		0.00060 J	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.00091 J	0.0010	0.00025	mg/l	SW846 8260B
JB66517-8	**HSSER-RAMW02-050614**					
1,1-Dichloroethane		0.0047	0.0010	0.00026	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.00073 J	0.0010	0.00024	mg/l	SW846 8260B
Tetrachloroethene		0.0045	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.0046	0.0010	0.00025	mg/l	SW846 8260B
Trichloroethene		0.00097 J	0.0010	0.00050	mg/l	SW846 8260B
JB66517-9	**HSSER-DUP02-050614**					
1,1-Dichloroethane		0.00082 J	0.0010	0.00026	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.00075 J	0.0010	0.00024	mg/l	SW846 8260B
Tetrachloroethene		0.00055 J	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.00078 J	0.0010	0.00025	mg/l	SW846 8260B
JB66517-10	**HSSER-TRIP01-050614**					
Methylene chloride		0.0015 J	0.0020	0.00086	mg/l	SW846 8260B
JB66517-11	**HSSER-FBLK02-050714**					
No hits reported in this sample.						
JB66517-12	**HSSER-RAMW01-050714**					
1,1-Dichloroethane		0.0037	0.0010	0.00026	mg/l	SW846 8260B
cis-1,2-Dichloroethene		0.0012	0.0010	0.00024	mg/l	SW846 8260B
Tetrachloroethene		0.0108	0.0010	0.00025	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.0046	0.0010	0.00025	mg/l	SW846 8260B
1,1,2-Trichloroethane		0.00031 J	0.0010	0.00021	mg/l	SW846 8260B
Trichloroethene		0.0014	0.0010	0.00050	mg/l	SW846 8260B

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-RAMW08-050614		
Lab Sample ID:	JB66517-1	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183735.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.0021	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.0015	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.0013	0.0010	0.00025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-120%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	113%		78-119%
460-00-4	4-Bromofluorobenzene	107%		74-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-RAMW07-050614		
Lab Sample ID:	JB66517-2	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183736.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2	U183823.D	10	05/13/14	CX	n/a	n/a	VU8483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.0329	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	0.0074	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.0109	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.0084	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.248 [a]	0.010	0.0025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	0.0027	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	105%	79-120%
17060-07-0	1,2-Dichloroethane-D4	108%	109%	72-123%
2037-26-5	Toluene-D8	112%	114%	78-119%
460-00-4	4-Bromofluorobenzene	109%	110%	74-119%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-RAMW06-050614		
Lab Sample ID:	JB66517-3	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183737.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2	U183824.D	10	05/13/14	CX	n/a	n/a	VU8483

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.0026	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	0.0049	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.0037	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.00026	0.0010	0.00025	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.259 [a]	0.010	0.0025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	0.0024	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	79-120%
17060-07-0	1,2-Dichloroethane-D4	107%	109%	72-123%
2037-26-5	Toluene-D8	113%	114%	78-119%
460-00-4	4-Bromofluorobenzene	109%	109%	74-119%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-RAMW05-050614		
Lab Sample ID:	JB66517-4	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183746.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.00094	0.0010	0.00026	mg/l	J
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	0.00081	0.0010	0.00034	mg/l	J
156-59-2	cis-1,2-Dichloroethene	0.0032	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.00029	0.0010	0.00025	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.0800	0.0010	0.00025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	0.0057	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-120%
17060-07-0	1,2-Dichloroethane-D4	107%		72-123%
2037-26-5	Toluene-D8	111%		78-119%
460-00-4	4-Bromofluorobenzene	109%		74-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-EBLK02-050614		
Lab Sample ID:	JB66517-5	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183741.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	112%		78-119%
460-00-4	4-Bromofluorobenzene	109%		74-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-RAMW04-050614		
Lab Sample ID:	JB66517-6	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183742.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.00051	0.0010	0.00026	mg/l	J
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.00054	0.0010	0.00025	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00067	0.0010	0.00025	mg/l	J
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-120%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	112%		78-119%
460-00-4	4-Bromofluorobenzene	109%		74-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-RAMW03-050614		
Lab Sample ID:	JB66517-7	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183745.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.00082	0.0010	0.00026	mg/l	J
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.00082	0.0010	0.00024	mg/l	J
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.00060	0.0010	0.00025	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00091	0.0010	0.00025	mg/l	J
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-120%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	114%		78-119%
460-00-4	4-Bromofluorobenzene	107%		74-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

4.8

Client Sample ID:	HSSER-RAMW02-050614		
Lab Sample ID:	JB66517-8	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183734.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.0047	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.00073	0.0010	0.00024	mg/l	J
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.0045	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.0046	0.0010	0.00025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	0.00097	0.0010	0.00050	mg/l	J
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-120%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	114%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-DUP02-050614		
Lab Sample ID:	JB66517-9	**Date Sampled:**	05/06/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183744.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.00082	0.0010	0.00026	mg/l	J
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.00075	0.0010	0.00024	mg/l	J
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.00055	0.0010	0.00025	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00078	0.0010	0.00025	mg/l	J
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	115%		78-119%
460-00-4	4-Bromofluorobenzene	111%		74-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-TRIP01-050614		
Lab Sample ID:	JB66517-10	**Date Sampled:**	05/07/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183748.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	0.0015	0.0020	0.00086	mg/l	J
127-18-4	Tetrachloroethene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-120%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	112%		78-119%
460-00-4	4-Bromofluorobenzene	109%		74-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-FBLK02-050714		
Lab Sample ID:	JB66517-11	**Date Sampled:**	05/07/14
Matrix:	AQ - Field Blank Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183747.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00025	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00021	mg/l	
79-01-6	Trichloroethene	ND	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	110%		72-123%
2037-26-5	Toluene-D8	112%		78-119%
460-00-4	4-Bromofluorobenzene	108%		74-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	HSSER-RAMW01-050714		
Lab Sample ID:	JB66517-12	**Date Sampled:**	05/07/14
Matrix:	AQ - Ground Water	**Date Received:**	05/08/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U183743.D	1	05/10/14	CX	n/a	n/a	VU8478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	0.0037	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00022	mg/l	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00034	mg/l	
156-59-2	cis-1,2-Dichloroethene	0.0012	0.0010	0.00024	mg/l	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00038	mg/l	
100-41-4	Ethylbenzene	ND	0.00050	0.00021	mg/l	
75-09-2	Methylene chloride	ND	0.0020	0.00086	mg/l	
127-18-4	Tetrachloroethene	0.0108	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00044	mg/l	
71-55-6	1,1,1-Trichloroethane	0.0046	0.0010	0.00025	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00031	0.0010	0.00021	mg/l	J
79-01-6	Trichloroethene	0.0014	0.0010	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-120%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	113%		78-119%
460-00-4	4-Bromofluorobenzene	108%		74-119%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST
LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # 6020 0491 3499
Bottle Order Control #
Accutest Quote #
Accutest Job # JB66517

Client / Reporting Information

Company Name: AECOM
Street Address: 27755 DIEHL RD SUITE # 100
City State Zip: WARRENVILLE IL 60555
Project Contact: PETER HOLLATZ / peter.hollatz@aecom.com
Phone #: 630.839.5386 Fax #: 630.836.1711
Sample(s) Name(s): N. PINS / A. HOLLATZ

Project Information

Project Name: UTAS PLANTS 1/2 FACILITY
Street:
City State: ROCKFORD, IL
Project #: 60312350
Client Purchase Order #:
Project Manager: PETER HOLLATZ

Billing Information (If different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet): * 8260 B VOCs

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	EnCore	VOCs	LAB USE ONLY
1	HSSER-RAMW08-050614		5/6/14	0830	AH	GW	3	3								X	
2	HSSER-RAMW07-050614			0940	AH	GW	3	3								X	V235
3	HSSER-RAMW06-050614			1045	AH	GW	3	3								X	
4	HSSER-RAMW05-050614			1210	AH	GW	3	3								X	V234
5	HSSER-EBLK02-050614			1230	AH	GW	3	3								X	
6	HSSER-RAMW04-050614			1330	AH	GW	3	3								X	
7	HSSER-RAMW03-050614			1445	AH	GW	3	3								X	
8	HSSER-RAMW02-050614			1555	AH	GW	3	3								X	
9	HSSER-MS02-050614			1555	AH	GW	3	3								X	
10	HSSER-MSD02-050614			1555	AH	GW	3	3								X	
11	HSSER-DUP02-050614			0000	AH	GW	3	3								X	
12	HSSER-TRIP01-050614			-	-	GW	~~3~~ 2	3								X	

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other _____

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1) 5/8/14
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format _____
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* LIST OF 13 VOCs
LEVEL IV DATA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Nick P. (AECOM)	5/7/14 1800	1 Fed Ex	2 Fed Ex	5/8/14 9:30	2 [signature]
3		3	4		4
5		5			

Custody Seal # 302 [x] Intact [ ] Not intact
Preserved where applicable [ ]
On Ice [x]
Cooler Temp. 0.6°C IP

IR TP

5.1 5

JB66517: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB66517

Client / Reporting Information

Company Name: AECOM
Street Address: 27755 DIEHL RD SUITE #100
City State Zip: WARRENVILLE IL 60555
Project Contact / E-mail: PETER HOLLATZ / peter.hollatz@aecom.com
Phone #: 630.839.5386 Fax #: 630.836.1711
Sampler(s) Name(s) Phone #:

Project Information

Project Name: UTAS PLANTS 1/2 FACILITY
Street:
City State: ROCKFORD IL
Project #: 60312350
Client Purchase Order #:
Project Manager: PETER HOLLATZ

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs 8260B *										
X3	HSSER-FBLK02-050714		05/7/14	0745	AH	GW	3	3								X										
1X	HSSER-RAMW01-050714		5/7/14	0830	AH	GW	3	3								X										
1X	5/8/14																									

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

LAB USE ONLY

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other _____

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format _____
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* LIST OF 13 VOCs
LEVEL IV DATA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
NH T - (AECOM)	5/7/14 1800	1 FED EX	2 FED EX	5/8/14 0950	2 [signature]
3		3	4		4
5		5			

Custody Seal #: [ ] Intact [ ] Not intact
Preserved where applicable [ ]
On Ice [ ]
Cooler Temp.

5.1 5

JB66517: Chain of Custody
Page 2 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB66517 **Client:** **Project:**

Date / Time Received: 5/8/2014 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (0.6/0.6); 0

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservatio	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

5.1

5

JB66517: Chain of Custody
Page 3 of 4

ACCUTEST LABORATORIES

Job Change Order: JB66517

Requested Date:	7/23/2014	**Received Date:**	5/8/2014
Account Name:	United Technologies Corporation	**Due Date:**	5/22/2014
Project Description:	ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL	**Deliverable:**	COMMBN
CSR:	mariem	**TAT (Days):**	2

Sample #: JB66517-all

Dept:

Change:
Please upgrade to FULT1. Report needed by Friday 7/25.

Above Changes Per: G. Malzone

Date/Time: 7/23/2014 12:26:31 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Internal Sample Tracking Chronicle

United Technologies Corporation

Job No: JB66517

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Project No: 60312350

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB66517-1 Collected: 06-MAY-14 08:30 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW08-050614						
JB66517-1	SW846 8260B	10-MAY-14 13:01	CX			V8260SL
JB66517-2 Collected: 06-MAY-14 09:40 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW07-050614						
JB66517-2	SW846 8260B	10-MAY-14 13:30	CX			V8260SL
JB66517-2	SW846 8260B	13-MAY-14 11:40	CX			V8260SL
JB66517-3 Collected: 06-MAY-14 10:45 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW06-050614						
JB66517-3	SW846 8260B	10-MAY-14 13:59	CX			V8260SL
JB66517-3	SW846 8260B	13-MAY-14 12:10	CX			V8260SL
JB66517-4 Collected: 06-MAY-14 12:10 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW05-050614						
JB66517-4	SW846 8260B	10-MAY-14 18:32	CX			V8260SL
JB66517-5 Collected: 06-MAY-14 12:30 By: AH Received: 08-MAY-14 By: TH HSSER-EBLK02-050614						
JB66517-5	SW846 8260B	10-MAY-14 16:06	CX			V8260SL
JB66517-6 Collected: 06-MAY-14 13:30 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW04-050614						
JB66517-6	SW846 8260B	10-MAY-14 16:36	CX			V8260SL
JB66517-7 Collected: 06-MAY-14 14:45 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW03-050614						
JB66517-7	SW846 8260B	10-MAY-14 18:03	CX			V8260SL
JB66517-8 Collected: 06-MAY-14 15:55 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW02-050614						

Internal Sample Tracking Chronicle

United Technologies Corporation

Job No: JB66517

ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Project No: 60312350

5.2 5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB66517-8	SW846 8260B	10-MAY-14 12:32	CX			V8260SL
JB66517-9 Collected: 06-MAY-14 00:00 By: AH Received: 08-MAY-14 By: TH HSSER-DUP02-050614						
JB66517-9	SW846 8260B	10-MAY-14 17:34	CX			V8260SL
JB66517-10 Collected: 07-MAY-14 08:30 By: AH Received: 08-MAY-14 By: TH HSSER-TRIP01-050614						
JB66517-10	SW846 8260B	10-MAY-14 19:31	CX			V8260SL
JB66517-11 Collected: 07-MAY-14 07:45 By: AH Received: 08-MAY-14 By: TH HSSER-FBLK02-050714						
JB66517-11	SW846 8260B	10-MAY-14 19:02	CX			V8260SL
JB66517-12 Collected: 07-MAY-14 08:30 By: AH Received: 08-MAY-14 By: TH HSSER-RAMW01-050714						
JB66517-12	SW846 8260B	10-MAY-14 17:05	CX			V8260SL

Accutest Internal Chain of Custody

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Received: 05/08/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB66517-1.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-1.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-1.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-1.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-2.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-2.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-2.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-2.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-2.2	Secured Storage	Connie Xu	05/12/14 13:23	Retrieve from Storage
JB66517-2.2	Connie Xu	GCMSU	05/12/14 13:23	Load on Instrument
JB66517-2.2	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-2.2	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-2.2	Secured Storage	Connie Xu	05/13/14 10:45	Retrieve from Storage
JB66517-2.2	Connie Xu	GCMSU	05/13/14 10:45	Load on Instrument
JB66517-2.2	GCMSU	Connie Xu	05/14/14 11:43	Unload from Instrument
JB66517-2.2	Connie Xu	Secured Storage	05/14/14 11:43	Return to Storage
JB66517-3.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-3.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-3.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-3.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-3.2	Secured Storage	Connie Xu	05/12/14 13:23	Retrieve from Storage
JB66517-3.2	Connie Xu	GCMSU	05/12/14 13:23	Load on Instrument
JB66517-3.2	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-3.2	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-3.2	Secured Storage	Connie Xu	05/13/14 10:45	Retrieve from Storage
JB66517-3.2	Connie Xu	GCMSU	05/13/14 10:45	Load on Instrument
JB66517-3.2	GCMSU	Connie Xu	05/14/14 11:43	Unload from Instrument
JB66517-3.2	Connie Xu	Secured Storage	05/14/14 11:43	Return to Storage
JB66517-4.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-4.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-4.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-4.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-5.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-5.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-5.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-5.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-6.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Received: 05/08/14

Sample. Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB66517-6.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-6.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-6.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-7.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-7.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-7.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-7.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-8.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-8.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-8.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-8.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-8.2	Gage Donahue		05/12/14 12:06	Depleted
JB66517-9.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-9.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-9.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-9.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-10.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-10.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-10.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-10.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-11.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-11.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-11.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-11.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage
JB66517-12.1	Secured Storage	Connie Xu	05/09/14 15:39	Retrieve from Storage
JB66517-12.1	Connie Xu	GCMSU	05/09/14 15:39	Load on Instrument
JB66517-12.1	GCMSU	Connie Xu	05/13/14 10:42	Unload from Instrument
JB66517-12.1	Connie Xu	Secured Storage	05/13/14 10:42	Return to Storage

New Jersey
ACCUTEST
LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU8478-MB	U183731.D	1	05/10/14	CX	n/a	n/a	VU8478

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB66517-1, JB66517-2, JB66517-3, JB66517-4, JB66517-5, JB66517-6, JB66517-7, JB66517-8, JB66517-9, JB66517-10, JB66517-11, JB66517-12

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.21	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.86	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.44	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	79-120%
17060-07-0	1,2-Dichloroethane-D4	106%	72-123%
2037-26-5	Toluene-D8	113%	78-119%
460-00-4	4-Bromofluorobenzene	110%	74-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU8483-MB	U183821.D	1	05/13/14	CX	n/a	n/a	VU8483

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB66517-2, JB66517-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	79-120%
17060-07-0	1,2-Dichloroethane-D4	111%	72-123%
2037-26-5	Toluene-D8	111%	78-119%
460-00-4	4-Bromofluorobenzene	108%	74-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU8478-BS	U183732.D	1	05/10/14	CX	n/a	n/a	VU8478

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB66517-1, JB66517-2, JB66517-3, JB66517-4, JB66517-5, JB66517-6, JB66517-7, JB66517-8, JB66517-9, JB66517-10, JB66517-11, JB66517-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-34-3	1,1-Dichloroethane	50	49.5	99	78-129
107-06-2	1,2-Dichloroethane	50	49.7	99	75-133
75-35-4	1,1-Dichloroethene	50	47.0	94	74-128
156-59-2	cis-1,2-Dichloroethene	50	46.7	93	78-123
156-60-5	trans-1,2-Dichloroethene	50	45.9	92	75-122
100-41-4	Ethylbenzene	50	49.1	98	82-120
75-09-2	Methylene chloride	50	48.2	96	75-121
127-18-4	Tetrachloroethene	50	46.5	93	69-141
108-88-3	Toluene	50	49.0	98	80-122
71-55-6	1,1,1-Trichloroethane	50	49.0	98	80-132
79-00-5	1,1,2-Trichloroethane	50	48.5	97	80-127
79-01-6	Trichloroethene	50	48.0	96	82-126
75-01-4	Vinyl chloride	50	50.7	101	53-135

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	79-120%
17060-07-0	1,2-Dichloroethane-D4	105%	72-123%
2037-26-5	Toluene-D8	112%	78-119%
460-00-4	4-Bromofluorobenzene	109%	74-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VU8483-BS	U183822.D	1	05/13/14	CX	n/a	n/a	VU8483

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB66517-2, JB66517-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-55-6	1,1,1-Trichloroethane	50	48.7	97	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	79-120%
17060-07-0	1,2-Dichloroethane-D4	109%	72-123%
2037-26-5	Toluene-D8	111%	78-119%
460-00-4	4-Bromofluorobenzene	108%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB66517-8MS	U183738.D	1	05/10/14	CX	n/a	n/a	VU8478
JB66517-8MSD	U183739.D	1	05/10/14	CX	n/a	n/a	VU8478
JB66517-8	U183734.D	1	05/10/14	CX	n/a	n/a	VU8478

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB66517-1, JB66517-2, JB66517-3, JB66517-4, JB66517-5, JB66517-6, JB66517-7, JB66517-8, JB66517-9, JB66517-10, JB66517-11, JB66517-12

CAS No.	Compound	JB66517-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-34-3	1,1-Dichloroethane	4.7		50	46.0	83	50	43.6	78	5	61-134/12
107-06-2	1,2-Dichloroethane	ND		50	46.2	92	50	45.1	90	2	68-137/11
75-35-4	1,1-Dichloroethene	ND		50	37.2	74	50	35.2	70	6	40-143/17
156-59-2	cis-1,2-Dichloroethene	0.73	J	50	41.5	82	50	40.3	79	3	59-133/12
156-60-5	trans-1,2-Dichloroethene	ND		50	39.8	80	50	38.1	76	4	55-132/14
100-41-4	Ethylbenzene	ND		50	41.7	83	50	40.7	81	2	49-137/13
75-09-2	Methylene chloride	ND		50	44.0	88	50	42.5	85	3	64-128/11
127-18-4	Tetrachloroethene	4.5		50	40.8	73	50	39.7	70	3	48-143/15
108-88-3	Toluene	ND		50	42.5	85	50	40.3	81	5	54-137/13
1-55-6	1,1,1-Trichloroethane	4.6		50	44.8	80	50	41.5	74	8	52-145/16
79-00-5	1,1,2-Trichloroethane	ND		50	47.7	95	50	45.1	90	6	73-130/10
79-01-6	Trichloroethene	0.97	J	50	41.7	81	50	39.8	78	5	54-141/13
75-01-4	Vinyl chloride	ND		50	40.9	82	50	37.9	76	8	36-149/19

CAS No.	Surrogate Recoveries	MS	MSD	JB66517-8	Limits
1868-53-7	Dibromofluoromethane	108%	106%	105%	79-120%
17060-07-0	1,2-Dichloroethane-D4	109%	110%	109%	72-123%
2037-26-5	Toluene-D8	113%	111%	114%	78-119%
460-00-4	4-Bromofluorobenzene	108%	108%	111%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB66479-7MS	U183832A.D	1	05/13/14	CX	n/a	n/a	VU8483
JB66479-7MSD	U183833.D	1	05/13/14	CX	n/a	n/a	VU8483
JB66479-7	U183826.D	1	05/13/14	CX	n/a	n/a	VU8483

The QC reported here applies to the following samples: **Method:** SW846 8260B

JB66517-2, JB66517-3

CAS No.	Compound	JB66479-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-55-6	1,1,1-Trichloroethane	ND		50	36.1	72	50	34.2	68	5	52-145/16

CAS No.	Surrogate Recoveries	MS	MSD	JB66479-7	Limits
1868-53-7	Dibromofluoromethane	108%	105%	108%	79-120%
17060-07-0	1,2-Dichloroethane-D4	109%	106%	109%	72-123%
2037-26-5	Toluene-D8	113%	114%	112%	78-119%
460-00-4	4-Bromofluorobenzene	109%	111%	109%	74-119%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8469-BFB
Lab File ID: U183552.D
Instrument ID: GCMSU
Injection Date: 05/05/14
Injection Time: 17:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16539	16.6		Pass
75	30.0 - 60.0% of mass 95	45045	45.3		Pass
95	Base peak, 100% relative abundance	99474	100.0		Pass
96	5.0 - 9.0% of mass 95	6570	6.60		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	95416	95.9		Pass
175	5.0 - 9.0% of mass 174	7981	8.02	(8.36) [a]	Pass
176	95.0 - 101.0% of mass 174	92421	92.9	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	6183	6.22	(6.69) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VU8469-IC8469	U183553.D	05/05/14	18:14	00:29	Initial cal 0.2
VU8469-IC8469	U183554.D	05/05/14	18:43	00:58	Initial cal 0.5
VU8469-IC8469	U183555.D	05/05/14	19:12	01:27	Initial cal 1
VU8469-IC8469	U183556.D	05/05/14	19:41	01:56	Initial cal 2
VU8469-IC8469	U183557.D	05/05/14	20:10	02:25	Initial cal 5
VU8469-IC8469	U183558.D	05/05/14	20:40	02:55	Initial cal 10
VU8469-IC8469	U183559.D	05/05/14	21:09	03:24	Initial cal 20
VU8469-ICC8469	U183560.D	05/05/14	21:38	03:53	Initial cal 50
VU8469-IC8469	U183561.D	05/05/14	22:07	04:22	Initial cal 100
VU8469-IC8469	U183562.D	05/05/14	22:36	04:51	Initial cal 200
VU8469-ICV8469	U183565.D	05/06/14	00:03	06:18	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8478-BFB
Lab File ID: U183728.D
Instrument ID: GCMSU
Injection Date: 05/10/14
Injection Time: 09:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16518	17.3		Pass
75	30.0 - 60.0% of mass 95	43557	45.7		Pass
95	Base peak, 100% relative abundance	95288	100.0		Pass
96	5.0 - 9.0% of mass 95	6325	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	86776	91.1		Pass
175	5.0 - 9.0% of mass 174	7116	7.47	(8.20) [a]	Pass
176	95.0 - 101.0% of mass 174	84555	88.7	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	5709	5.99	(6.75) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VU8478-CC8469	U183729.D	05/10/14	09:34	00:34	Continuing cal 20
VU8478-MB	U183731.D	05/10/14	10:47	01:47	Method Blank
VU8478-BS	U183732.D	05/10/14	11:33	02:33	Blank Spike
JB66517-8	U183734.D	05/10/14	12:32	03:32	HSSER-RAMW02-050614
JB66517-1	U183735.D	05/10/14	13:01	04:01	HSSER-RAMW08-050614
JB66517-2	U183736.D	05/10/14	13:30	04:30	HSSER-RAMW07-050614
JB66517-3	U183737.D	05/10/14	13:59	04:59	HSSER-RAMW06-050614
JB66517-8MS	U183738.D	05/10/14	14:38	05:38	Matrix Spike
JB66517-8MSD	U183739.D	05/10/14	15:07	06:07	Matrix Spike Duplicate
JB66517-5	U183741.D	05/10/14	16:06	07:06	HSSER-EBLK02-050614
JB66517-6	U183742.D	05/10/14	16:36	07:36	HSSER-RAMW04-050614
JB66517-12	U183743.D	05/10/14	17:05	08:05	HSSER-RAMW01-050714
JB66517-9	U183744.D	05/10/14	17:34	08:34	HSSER-DUP02-050614
JB66517-7	U183745.D	05/10/14	18:03	09:03	HSSER-RAMW03-050614
JB66517-4	U183746.D	05/10/14	18:32	09:32	HSSER-RAMW05-050614
JB66517-11	U183747.D	05/10/14	19:02	10:02	HSSER-FBLK02-050714
JB66517-10	U183748.D	05/10/14	19:31	10:31	HSSER-TRIP01-050614
ZZZZZZ	U183749.D	05/10/14	20:00	11:00	(unrelated sample)
ZZZZZZ	U183750.D	05/10/14	20:29	11:29	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8483-BFB
Lab File ID: U183818.D
Instrument ID: GCMSU
Injection Date: 05/13/14
Injection Time: 08:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16049	17.3		Pass
75	30.0 - 60.0% of mass 95	42288	45.6		Pass
95	Base peak, 100% relative abundance	92656	100.0		Pass
96	5.0 - 9.0% of mass 95	6002	6.48		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	85397	92.2		Pass
175	5.0 - 9.0% of mass 174	7621	8.23	(8.92) [a]	Pass
176	95.0 - 101.0% of mass 174	82883	89.5	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	5527	5.97	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VU8483-CC8469	U183819.D	05/13/14	09:17	00:46	Continuing cal 20
VU8483-MB	U183821.D	05/13/14	10:24	01:53	Method Blank
VU8483-BS	U183822.D	05/13/14	11:01	02:30	Blank Spike
JB66517-2	U183823.D	05/13/14	11:40	03:09	HSSER-RAMW07-050614
JB66517-3	U183824.D	05/13/14	12:10	03:39	HSSER-RAMW06-050614
JB66479-7	U183826.D	05/13/14	13:19	04:48	(used for QC only; not part of job JB66517)
ZZZZZZ	U183827.D	05/13/14	13:48	05:17	(unrelated sample)
ZZZZZZ	U183828.D	05/13/14	14:17	05:46	(unrelated sample)
ZZZZZZ	U183829.D	05/13/14	14:46	06:15	(unrelated sample)
ZZZZZZ	U183830.D	05/13/14	15:15	06:44	(unrelated sample)
ZZZZZZ	U183831.D	05/13/14	15:54	07:23	(unrelated sample)
JB66479-7MS	U183832A.D	05/13/14	16:47	08:16	Matrix Spike
JB66479-7MSD	U183833.D	05/13/14	17:16	08:45	Matrix Spike Duplicate
ZZZZZZ	U183835.D	05/13/14	18:14	09:43	(unrelated sample)
ZZZZZZ	U183836.D	05/13/14	18:44	10:13	(unrelated sample)
ZZZZZZ	U183837.D	05/13/14	19:12	10:41	(unrelated sample)
ZZZZZZ	U183838.D	05/13/14	19:41	11:10	(unrelated sample)
ZZZZZZ	U183839.D	05/13/14	20:10	11:39	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Check Std:	VU8478-CC8469	**Injection Date:**	05/10/14
Lab File ID:	U183729.D	**Injection Time:**	09:34
Instrument ID:	GCMSU	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	121474	8.04	263248	10.27	374679	11.18	357172	14.51	220823	17.09
Upper Limit [a]	242948	8.54	526496	10.77	749358	11.68	714344	15.01	441646	17.59
Lower Limit [b]	60737	7.54	131624	9.77	187340	10.68	178586	14.01	110412	16.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VU8478-MB	134132	8.05	268882	10.27	384398	11.18	377623	14.51	233164	17.09
VU8478-BS	113239	8.04	263742	10.27	376360	11.18	361090	14.52	224891	17.09
JB66517-8	133958	8.07	264128	10.27	381476	11.18	382843	14.52	227658	17.09
JB66517-1	141085	8.06	264906	10.27	375799	11.18	362935	14.52	225838	17.09
JB66517-2	143704	8.06	264962	10.27	377521	11.19	366936	14.51	224489	17.09
JB66517-3	122306	8.06	265225	10.27	372205	11.19	359953	14.51	223947	17.09
JB66517-8MS	152888	8.05	254574	10.26	366822	11.19	359145	14.52	222491	17.09
JB66517-8MSD	149946	8.06	267528	10.27	385643	11.18	364311	14.51	228859	17.09
JB66517-5	127638	8.06	268205	10.27	380282	11.19	368489	14.52	228034	17.10
JB66517-6	126008	8.06	268416	10.27	380772	11.18	369063	14.52	229094	17.09
JB66517-12	128134	8.06	260576	10.27	375026	11.18	366313	14.51	226735	17.09
JB66517-9	140168	8.06	259575	10.27	367924	11.18	370352	14.51	226887	17.09
JB66517-7	136189	8.07	257065	10.27	361118	11.18	358907	14.51	222817	17.09
JB66517-4	125121	8.05	265448	10.27	372091	11.18	357675	14.51	222987	17.09
JB66517-11	125305	8.06	260305	10.27	368908	11.19	357519	14.51	222379	17.09
JB66517-10	131729	8.06	260704	10.27	368513	11.18	358798	14.52	218851	17.09
ZZZZZZ	114788	8.06	255634	10.27	360135	11.19	350780	14.51	217702	17.09
ZZZZZZ	123435	8.06	254638	10.26	362634	11.18	347322	14.51	219345	17.09

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Check Std:	VU8483-CC8469	**Injection Date:**	05/13/14
Lab File ID:	U183819.D	**Injection Time:**	09:17
Instrument ID:	GCMSU	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	122363	8.06	246525	10.26	350560	11.18	350739	14.51	216261	17.09
Upper Limit [a]	244726	8.56	493050	10.76	701120	11.68	701478	15.01	432522	17.59
Lower Limit [b]	61182	7.56	123263	9.76	175280	10.68	175370	14.01	108131	16.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VU8483-MB	131253	8.07	255141	10.26	363929	11.18	357470	14.51	229072	17.09
VU8483-BS	120814	8.07	254641	10.27	361900	11.18	350412	14.51	215930	17.09
JB66517-2	113788	8.07	251870	10.26	359453	11.18	351787	14.51	217991	17.09
JB66517-3	131980	8.06	259678	10.26	368443	11.18	368481	14.51	226636	17.09
JB66479-7	154962	8.08	251280	10.27	354036	11.18	347321	14.51	215666	17.09
ZZZZZZ	130382	8.07	249623	10.26	355006	11.18	362261	14.51	225764	17.09
ZZZZZZ	136633	8.06	262390	10.26	371393	11.18	369464	14.51	226774	17.09
ZZZZZZ	136256	8.08	256168	10.27	363614	11.18	366344	14.51	228622	17.09
ZZZZZZ	135487	8.07	259669	10.26	369399	11.18	369373	14.51	228458	17.09
ZZZZZZ	127327	8.04	256013	10.26	369275	11.18	344914	14.51	219806	17.09
JB66479-7MS	131516	8.06	248003	10.27	355348	11.18	349944	14.51	216568	17.09
JB66479-7MSD	148419	8.06	264889	10.26	376169	11.18	373923	14.51	227307	17.09
ZZZZZZ	127577	8.09	254974	10.27	362315	11.18	361853	14.51	223316	17.09
ZZZZZZ	126415	8.07	256977	10.26	362904	11.18	362573	14.51	225296	17.09
ZZZZZZ	108273	8.04	254155	10.27	357651	11.18	358717	14.51	225243	17.09
ZZZZZZ	142237	8.07	254249	10.27	365559	11.18	359392	14.51	224031	17.09
ZZZZZZ	138784	8.06	256221	10.26	363011	11.18	362116	14.51	225914	17.09

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB66517-1	U183735.D	105	108	113	107
JB66517-2	U183823.D	105	109	114	110
JB66517-2	U183736.D	105	108	112	109
JB66517-3	U183824.D	105	109	114	109
JB66517-3	U183737.D	104	107	113	109
JB66517-4	U183746.D	103	107	111	109
JB66517-5	U183741.D	106	110	112	109
JB66517-6	U183742.D	103	108	112	109
JB66517-7	U183745.D	104	110	114	107
JB66517-8	U183734.D	105	109	114	111
JB66517-9	U183744.D	106	109	115	111
JB66517-10	U183748.D	105	109	112	109
JB66517-11	U183747.D	106	110	112	108
JB66517-12	U183743.D	106	109	113	108
JB66479-7MS	U183832A.D	108	109	113	109
JB66479-7MSD	U183833.D	105	106	114	111
JB66517-8MS	U183738.D	108	109	113	108
JB66517-8MSD	U183739.D	106	110	111	108
VU8478-BS	U183732.D	105	105	112	109
VU8478-MB	U183731.D	104	106	113	110
VU8483-BS	U183822.D	106	109	111	108
VU8483-MB	U183821.D	109	111	111	108

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-120%
S2 = 1,2-Dichloroethane-D4	72-123%
S3 = Toluene-D8	78-119%
S4 = 4-Bromofluorobenzene	74-119%

Initial Calibration Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Sample: VU8469-ICC8469
Lab FileID: U183560.D

Response Factor Report MSU

```
Method        : C:\MSDCHEM\1\METHODS\MU8469.M (RTE Integrator)
Title         : SW-846  8260B, DB624  60m x 250um x 1.40um
Last Update   : Tue May 06 13:09:48 2014
Response via  : Initial Calibration

Calibration Files
5   =U183557.D   2   =U183556.D   20  =U183559.D   50  =U183560.D
100 =U183561.D   1   =U183555.D   200 =U183562.D   10  =U183558.D
0.5 =U183554.D   0.2 =U183553.D       =                =

Compound
        5     2     20    50    100   1     200   10    0.5   0.2    Avg   %RSD
--------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  tertiary butyl alcohol
     1.095 0.985 1.152 1.122 1.087       1.039 1.039                1.074    5.28
3)  Ethanol
                                                                    0.000   -1.00
4)  1,4-dioxane
     0.054       0.089 0.080 0.076       0.076 0.071                0.074   16.01
          ----- Linear regression -----  Coefficient =  0.9993
            Response Ratio = 0.00298 + 0.07585 *A


5) I   pentafluorobenzene    ----------------ISTD---------------------
6)  freon 115
                                                                    0.000   -1.00
7)  freon 23
                                                                    0.000   -1.00
8)  freon 143A
                                                                    0.000   -1.00
9)  freon 152A
                                                                    0.000   -1.00
10)  chlorotrifluoroethene
                                                                    0.000   -1.00
11)  chlorodifluoromethane
     0.381 0.367 0.456 0.444 0.417       0.439 0.396                0.414    8.15
12)  dichlorodifluoromethane
     0.527 0.429 0.584 0.576 0.528 0.441 0.555 0.550                0.524   11.15
13)  freon 142B
                                                                    0.000   -1.00
14)  freon 114
                                                                    0.000   -1.00
15)  chloromethane
     0.494 0.454 0.545 0.540 0.542 0.517 0.546 0.488 0.608 0.485    0.522    8.36
16)  vinyl chloride
     0.499 0.435 0.579 0.563 0.542 0.576 0.573 0.514                0.535    9.40
17)  acetaldehyde
                                                                    0.000   -1.00
18)  bromomethane
     0.343 0.318 0.372 0.364 0.325 0.384 0.305 0.348 0.383          0.349    8.28
19)  chloroethane
     0.229 0.216 0.255 0.246 0.240 0.202 0.236 0.221                0.231    7.51
20)  trichlorofluoromethane
     0.709 0.645 0.817 0.783 0.721 0.700 0.753 0.728                0.732    7.21
21)  pentane
                                                                    0.000   -1.00
```

6.7.1 6

Initial Calibration Summary

Job Number: JB66517 **Sample:** VU8469-ICC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183560.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

22)	freon 123A										0.000	-1.00
23)	ethyl ether											
	0.217	0.216	0.238	0.238	0.231	0.210	0.233	0.224			0.226	4.61
24)	2-CHLOROPROPANE											
	0.683	0.729	0.762	0.714	0.702	0.681	0.709	0.693	0.675		0.705	3.86
25)	freon 141B										0.000	-1.00
26)	freon 123										0.000	-1.00
27)	acrolein											
	0.078	0.083	0.086	0.087	0.087	0.073	0.089	0.081			0.083	6.74
28)	1,1-dichloroethene											
	0.409	0.434	0.433	0.412	0.400	0.426	0.414	0.400	0.456		0.420	4.37
29)	acetone											
	0.058		0.059	0.058	0.054		0.053	0.050			0.055	6.39
30)	allyl chloride											
	0.065		0.073	0.063	0.068		0.069	0.075			0.069	6.60
31)	acetonitrile											
	0.028	0.030	0.029	0.035	0.034		0.034	0.028			0.031	10.29
32)	iodomethane											
	0.809	0.819	0.877	0.838	0.830	0.725	0.843	0.801	0.725		0.807	6.40
33)	carbon disulfide											
	1.399	1.437	1.489	1.410	1.401	1.326	1.440	1.381	1.382		1.407	3.25
34)	1-CHLOROPROPANE											
	0.034		0.039	0.036	0.035		0.035	0.041			0.037	7.85
35)	methylene chloride											
	0.456	0.482	0.475	0.463	0.458	0.455	0.463	0.456	0.394		0.456	5.46
36)	methyl acetate											
	0.328	0.298	0.357	0.340	0.336	0.269	0.349	0.313	0.358		0.327	9.04
37)	methyl tert butyl ether											
	1.356	1.401	1.451	1.394	1.390	1.461	1.391	1.376	1.287		1.390	3.68
38)	trans-1,2-dichloroethene											
	0.456	0.484	0.462	0.443	0.434	0.406	0.442	0.438	0.537		0.456	8.12
39)	di-isopropyl ether											
	1.315	1.304	1.432	1.397	1.376	1.298	1.410	1.276	1.318		1.347	4.22
40)	ethyl tert-butyl ether											
	1.349	1.359	1.486	1.438	1.426	1.319	1.470	1.351	1.369		1.397	4.27
41)	2-butanone											
	0.056		0.063	0.063	0.060		0.058	0.053			0.059	6.96
42)	1,1-dichloroethane											
	0.783	0.813	0.808	0.781	0.766	0.679	0.778	0.773	0.725		0.767	5.42
43)	chloroprene											
	0.586	0.537	0.647	0.634	0.614	0.531	0.643	0.565	0.573	0.619	0.595	7.18
44)	acrylonitrile											
	0.157	0.157	0.165	0.165	0.163	0.153	0.166	0.157	0.125	0.124	0.153	10.33
45)	vinyl acetate											
	0.067		0.084	0.083	0.082		0.083	0.076			0.079	8.53
46)	ethyl acetate											
	0.050		0.064	0.062	0.060		0.061	0.058			0.059	8.46
47)	2,2-dichloropropane											
	0.715	0.688	0.719	0.686	0.661	0.628	0.659	0.669	0.675	0.606	0.671	5.24
48)	cis-1,2-dichloroethene											
	0.486	0.543	0.517	0.490	0.481	0.529	0.488	0.490			0.503	4.65
49)	methyl acrylate											
	0.463	0.438	0.502	0.492	0.502	0.453	0.501	0.473			0.478	5.23
50)	propionitrile											
	0.060	0.060	0.065	0.065	0.065	0.053	0.067	0.061			0.062	7.39
51)	bromochloromethane											
	0.259	0.263	0.267	0.261	0.254	0.269	0.257	0.245	0.261		0.260	2.80

Initial Calibration Summary

Job Number: JB66517 **Sample:** VU8469-ICC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183560.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

```
52)  tetrahydrofuran
      0.137 0.158 0.154 0.137 0.132       0.133 0.145              0.142    7.25
53)  chloroform
      0.828 0.964 0.842 0.798 0.784 0.952 0.788 0.805              0.845    8.58
54)  tert-butyl Formate
      0.348 0.331 0.423 0.422 0.429 0.334 0.440 0.363 0.358        0.383   11.68
55)  iso-butyl alcohol
      0.006       0.007 0.006 0.006       0.006 0.006              0.006    4.85
56)  dibromofluoromethane (s)
      0.417 0.399 0.430 0.421 0.415 0.399 0.419 0.391 0.482        0.419    6.36
57)  1,2-dichloroethane-d4 (s)
      0.491 0.465 0.501 0.493 0.473 0.444 0.468 0.451 0.387 0.459  0.463    7.04
58)  freon 113
      0.334 0.284 0.390 0.361 0.343 0.261 0.360 0.319 0.280        0.326   13.24
59)  methacrylonitrile
      0.256 0.289 0.293 0.284 0.283 0.261 0.284 0.281 0.285        0.280    4.46
60)  1,1,1-trichloroethane
      0.706 0.725 0.766 0.728 0.716 0.651 0.722 0.713 0.682        0.712    4.45
61)  tert amyl alcohol
                                                                   0.000   -1.00
62)  tert-amyl methyl ether
      0.313 0.333 0.357 0.352 0.344 0.275 0.348 0.326 0.336        0.332    7.56
63)  iso-octane
      1.315 1.208 1.602 1.497 1.424 1.160 1.534 1.351 1.209 1.149  1.345   12.19

64) I  1,4-difluorobenzene   ----------------ISTD---------------------
65)  Di-isobutylene
                                                                   0.000   -1.00
66)  epichlorohydrin
      0.030 0.031 0.034 0.032 0.033 0.034 0.033 0.031 0.039        0.033    7.94
67)  n-butyl alcohol
      0.009 0.007 0.009 0.008 0.009 0.010 0.008 0.009 0.009        0.009    7.12
68)  Cyclohexane
      0.459 0.467 0.480 0.465 0.456 0.371 0.461 0.446              0.451    7.45
69)  carbon tetrachloride
      0.457 0.485 0.487 0.458 0.447 0.362 0.450 0.457 0.382        0.443    9.64
70)  1,1-dichloropropene
      0.405 0.414 0.441 0.416 0.410 0.371 0.410 0.403 0.349 0.335  0.395    8.34
71)  hexane
      0.054       0.058 0.055 0.050       0.053 0.051              0.053    4.84
72)  benzene
      1.184 1.254 1.242 1.182 1.172 1.131 1.165 1.161 1.047 1.126  1.167    5.04
73)  heptane
      0.188 0.165 0.202 0.192 0.179 0.157 0.192 0.176              0.181    8.44
74)  isopropyl acetate
      0.539 0.531 0.581 0.563 0.563 0.503 0.560 0.533 0.540        0.546    4.26
75)  1,2-dichloroethane
      0.409 0.438 0.444 0.426 0.417 0.398 0.410 0.415 0.375 0.368  0.410    5.93
76)  ethyl acrylate
                                                                   0.000   -1.00
77)  tert amyl ethyl ether
                                                                   0.000   -1.00
78)  trichloroethene
      0.316 0.334 0.333 0.315 0.315 0.296 0.319 0.312 0.283 0.278  0.310    6.13
79)  methylcyclohexane
      0.475 0.445 0.548 0.507 0.484 0.374 0.520 0.474 0.448 0.426  0.470   10.65
80)  2-nitropropane
      0.119 0.117 0.128 0.125 0.125       0.124 0.110              0.121    4.97
81)  2-chloroethyl vinyl ether
      0.129 0.126 0.154 0.162 0.163 0.118 0.167 0.135              0.144   13.39
```

6.7.1 6

Initial Calibration Summary

Job Number: JB66517 **Sample:** VU8469-ICC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183560.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

```
 82)  methyl methacrylate
       0.088 0.088 0.091 0.090 0.090 0.105 0.091 0.082 0.066        0.088    11.75
 83)  1,2-dichloropropane
       0.300 0.308 0.313 0.302 0.304 0.291 0.306 0.292 0.282 0.269  0.297     4.49
 84)  propyl acetate
       0.064 0.054 0.064 0.060 0.058       0.059 0.057              0.059     5.74
 85)  dibromomethane
       0.190 0.216 0.204 0.199 0.201 0.189 0.199 0.193              0.199     4.34
 86)  bromodichloromethane
       0.427 0.430 0.459 0.441 0.442 0.405 0.444 0.431 0.524        0.445     7.42
 87)  cis-1,3-dichloropropene
       0.524 0.517 0.553 0.536 0.537 0.475 0.539 0.508 0.384 0.567  0.514    10.16
 88)  toluene-d8 (s)
       1.119 0.970 1.122 1.089 1.091 0.949 1.091 0.996 0.979        1.045     6.69
 89)  4-methyl-2-pentanone
       0.136 0.124 0.124 0.121 0.121 0.121 0.119 0.123              0.124     4.29
 90)  toluene
       0.793 0.763 0.814 0.781 0.781 0.731 0.788 0.763 0.655 0.685  0.755     6.71
 91)  3-methyl-1-butanol
       0.015 0.014 0.015 0.013 0.013 0.017 0.013 0.014              0.014     9.49
 92)  trans-1,3-dichloropropene
       0.507 0.472 0.536 0.509 0.520 0.487 0.518 0.510 0.420 0.565  0.505     7.70
 93)  ethyl methacrylate
       0.385 0.416 0.420 0.405 0.413       0.411 0.384              0.405     3.66
 94)  1,1,2-trichloroethane
       0.241 0.244 0.252 0.239 0.245 0.237 0.243 0.245 0.190        0.237     7.70
 95)  2-hexanone
       0.134 0.122 0.129 0.122 0.119 0.126 0.115 0.121 0.134        0.125     5.32

 96) I   chlorobenzene-d5      ----------------ISTD---------------------
 97)  cyclohexanone
       0.044 0.046 0.054 0.056 0.054 0.056 0.049 0.045              0.051    10.54
 98)  tetrachloroethene
       0.320 0.321 0.340 0.333 0.326 0.308 0.319 0.313 0.275        0.317     5.87
 99)  1,3-dichloropropane
       0.482 0.490 0.520 0.513 0.507 0.456 0.492 0.490 0.524        0.497     4.26
100)  butyl acetate
       0.206 0.192 0.218 0.211 0.205 0.199 0.199 0.186 0.211        0.203     4.95
101)  dibromochloromethane
       0.379 0.376 0.414 0.411 0.406 0.353 0.402 0.378 0.360        0.387     5.83
102)  1,2-dibromoethane
       0.314 0.321 0.345 0.340 0.336 0.300 0.328 0.325 0.307 0.354  0.327     5.26
103)  3,3-dimethyl-1-Butanol
       0.026 0.028 0.027 0.027 0.024 0.036 0.024 0.026              0.027    13.40
104)  n-butyl ether
                                                                    0.000    -1.00
105)  chlorobenzene
       0.936 0.958 1.013 0.978 0.979 0.951 0.967 0.945 0.887 1.102  0.972     5.82
106)  1,1,1,2-tetrachloroethane
       0.380 0.392 0.404 0.391 0.390 0.366 0.381 0.367 0.352 0.362  0.378     4.35
107)  ethylbenzene
       1.581 1.587 1.665 1.614 1.620 1.478 1.607 1.551 1.473 1.445  1.562     4.70
108)  m,p-xylene
       0.610 0.618 0.652 0.637 0.632 0.576 0.625 0.606 0.551 0.596  0.610     4.94
109)  o-xylene
       0.633 0.637 0.664 0.647 0.648 0.583 0.641 0.642 0.544 0.706  0.634     6.89
110)  styrene
       1.037 1.002 1.118 1.097 1.108 0.924 1.097 1.029 0.843 0.851  1.011    10.35
111)  bromoform
       0.288 0.309 0.318 0.308 0.319 0.294 0.313 0.292 0.266        0.301     5.76
```

6.7.1 6

Initial Calibration Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8469-ICC8469
Lab FileID: U183560.D

```
112) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
113)  isopropylbenzene
       2.672 2.693 2.836 2.781 2.761 2.318 2.847 2.626 2.341 2.496  2.637    7.30
114)  4-bromofluorobenzene (s)
       0.737 0.679 0.773 0.757 0.750 0.753 0.763 0.679              0.736    4.98
115)  bromobenzene
       0.759 0.811 0.795 0.766 0.754 0.714 0.763 0.739 0.686        0.754    5.05
116)  1,1,2,2-tetrachloroethane
       0.731 0.750 0.761 0.746 0.733 0.789 0.731 0.732 0.683 0.843  0.750    5.64
117)  trans-1,4-dichloro-2-butene
       0.183 0.187 0.205 0.198 0.199 0.209 0.201 0.191              0.197    4.56
118)  1,2,3-trichloropropane
       0.208 0.236 0.223 0.207 0.205 0.212 0.206 0.207 0.151        0.206   11.22
119)  n-propylbenzene
       2.885 2.909 3.154 3.069 2.993 2.555 3.106 2.915 2.653 2.690  2.893    7.00
120)  2-chlorotoluene
       0.681 0.733 0.721 0.691 0.679 0.578 0.683 0.659 0.581        0.667    8.18
121)  4-chlorotoluene
       1.950 2.007 2.075 2.035 2.002 1.763 2.055 1.950 1.655 1.844  1.934    7.11
122)  p-Ethyltoluene
                                                                    0.000   -1.00
123)  1,3,5-trimethylbenzene
       2.257 2.384 2.545 2.442 2.425 2.033 2.457 2.320 1.835 2.216  2.291    9.47
124)  tert-butylbenzene
       2.042 2.162 2.289 2.203 2.188 1.839 2.217 2.074 1.798 1.969  2.078    7.98
125)  pentachloroethane
       0.476 0.480 0.509 0.503 0.496 0.409 0.501 0.489 0.400 0.428  0.469    8.74
126)  1,2,4-trimethylbenzene
       2.282 2.361 2.520 2.452 2.438 2.150 2.474 2.326 1.975 2.245  2.322    7.21
127)  1,2,3-trimethylbenzene
                                                                    0.000   -1.00
128)  sec-butylbenzene
       2.980 3.128 3.307 3.205 3.153 2.631 3.226 3.005 2.586 2.491  2.971    9.95
129)  1,3-dichlorobenzene
       1.481 1.557 1.601 1.540 1.548 1.414 1.532 1.478 1.400 1.663  1.522    5.30
130)  p-isopropyltoluene
       2.668 2.689 2.952 2.833 2.812 2.406 2.831 2.706 2.151 2.462  2.651    9.17
131)  1,4-dichlorobenzene
       1.571 1.596 1.638 1.566 1.542 1.587 1.553 1.504 1.477 1.626  1.566    3.20
132)  benzyl chloride
       1.410 1.493 1.580 1.543 1.518 1.429 1.509 1.433 1.543        1.495    3.96
133)  1,2-dichlorobenzene
       1.496 1.545 1.569 1.529 1.507 1.483 1.479 1.501 1.420 1.584  1.511    3.16
134)  p-Diethylbenzene
                                                                    0.000   -1.00
135)  n-butylbenzene
       1.267 1.321 1.419 1.366 1.334 1.135 1.350 1.308 1.181 1.177  1.286    7.25
136)  1,2,4,5-Tetramethylbenzene
                                                                    0.000   -1.00
137)  1,2-dibromo-3-chloropropane
       0.178 0.164 0.193 0.187 0.184 0.206 0.181 0.164              0.182    7.79
138)  1,3,5-trichlorobenzene
       1.275 1.298 1.362 1.300 1.247 1.144 1.217 1.252 1.103 1.174  1.237    6.39
139)  1,2,4-trichlorobenzene
       1.061 1.094 1.181 1.130 1.081 1.033 1.061 1.076 1.044 1.160  1.092    4.53
140)  hexachlorobutadiene
       0.610 0.617 0.651 0.613 0.575 0.524 0.555 0.586 0.614 0.662  0.601    6.98
141)  naphthalene
       2.207 2.307 2.410 2.302 2.220 2.312 2.161 2.235 2.039 2.738  2.293    8.10
```

6.7.1 6

Initial Calibration Summary

Job Number: JB66517 **Sample:** VU8469-ICC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183560.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

```
142)  INDANE
                                                                    0.000   -1.00
143)  1,2,3-trichlorobenzene
       0.935 0.926 1.003 0.951 0.919 0.854 0.904 0.936 0.866 1.060  0.935    6.49
144)  hexachloroethane
       0.457 0.479 0.534 0.517 0.505 0.439 0.505 0.481 0.342        0.473   12.14
145)  MMT
                                                                    0.000   -1.00
146)  Bis(chloromethyl)ether
                                                                    0.000   -1.00
147)  Ethylenimine
                                                                    0.000   -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MU8469.M          Tue May 06 13:11:25 2014   RPT1
```

6.7.1

6

Initial Calibration Verification

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8469-ICV8469
Lab FileID: U183565.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\U183565.D Vial: 15
Acq On : 6 May 2014 12:03 am Operator: conniex
Sample : icv8469-50 Inst : MSU
Misc : ms66620,vu8469,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MU8469.M (RTE Integrator)
Title : SW-846 8260B, DB624 60m x 250um x 1.40um
Last Update : Tue May 06 13:09:48 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	103	0.01	8.05
2 M	tertiary butyl alcohol	1.074	1.106	-3.0	102	0.01	8.16
3	Ethanol		----------NA----------				
	----------	True	Calc.	% Drift	----------		
4 m	1,4-dioxane	1250.000	1214.329	2.9	96	0.01	11.92
	----------	AvgRF	CCRF	% Dev	----------		
5 I	pentafluorobenzene	1.000	1.000	0.0	102	0.00	10.27
6 M	freon 115		----------NA----------				
7 M	freon 23		----------NA----------				
8 M	freon 143A		----------NA----------				
9 M	freon 152A		----------NA----------				
10 M	chlorotrifluoroethene		----------NA----------				
11 M	chlorodifluoromethane	0.414	0.385	7.0	89	0.00	4.54
12 M	dichlorodifluoromethane	0.524	0.433	17.4	77	0.00	4.51
13 M	freon 142B		----------NA----------				
14 M	freon 114		----------NA----------				
15 M	chloromethane	0.522	0.450	13.8	85	0.00	4.88
16 M	vinyl chloride	0.535	0.478	10.7	87	0.00	5.17
17 M	acetaldehyde		----------NA----------				
18 M	bromomethane	0.349	0.311	10.9	87	0.00	5.85
19 M	chloroethane	0.231	0.259	-12.1	108	0.00	6.04
20 M	trichlorofluoromethane	0.732	0.682	6.8	89	0.00	6.55
21 M	pentane		----------NA----------				
22 M	freon 123A		----------NA----------				
23 M	ethyl ether	0.226	0.245	-8.4	105	0.00	6.94
24	2-CHLOROPROPANE	0.705	0.745	-5.7	107	0.00	7.15
25 M	freon 141B		----------NA----------				
26 M	freon 123		----------NA----------				
27 M	acrolein	0.083	0.084	-1.2	99	0.00	7.22
28 M	1,1-dichloroethene	0.420	0.437	-4.0	109	0.00	7.38
29 M	acetone	0.055	0.045	18.2	79	0.01	7.45
30 M	allyl chloride	0.069	0.086	-24.6#	139	0.00	7.91
31 M	acetonitrile	0.031	0.037	-19.4	107	0.01	7.91
32 M	iodomethane	0.807	0.863	-6.9	105	0.00	7.67
33 M	carbon disulfide	1.407	1.547	-10.0	112	0.00	7.79
34	1-CHLOROPROPANE	0.037	0.036	2.7	102	0.00	8.13
35 M	methylene chloride	0.456	0.476	-4.4	105	0.00	8.09
36 M	methyl acetate	0.327	0.324	0.9	98	0.00	7.89
37 M	methyl tert butyl ether	1.390	1.375	1.1	101	0.00	8.43

Initial Calibration Verification

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8469-ICV8469
Lab FileID: U183565.D

38	M	trans-1,2-dichloroethene	0.456	0.454	0.4	105	0.00	8.46
39	M	di-isopropyl ether	1.347	1.429	-6.1	105	0.00	9.02
40	M	ethyl tert-butyl ether	1.397	1.451	-3.9	103	0.00	9.48
41	M	2-butanone	0.059	0.057	3.4	92	0.00	9.73
42	M	1,1-dichloroethane	0.767	0.808	-5.3	106	0.00	9.03
43	M	chloroprene	0.595	0.606	-1.8	98	0.00	9.14
44	M	acrylonitrile	0.153	0.168	-9.8	105	0.00	8.43
45	M	vinyl acetate	0.079	0.089	-12.7	110	0.00	9.02
46	M	ethyl acetate	0.059	0.061	-3.4	101	0.00	9.74
47	M	2,2-dichloropropane	0.671	0.657	2.1	98	0.00	9.78
48	M	cis-1,2-dichloroethene	0.503	0.487	3.2	102	0.00	9.76
49	M	methyl acrylate	0.478	0.503	-5.2	105	0.00	9.83
50	M	propionitrile	0.062	0.067	-8.1	106	0.00	9.84
51	M	bromochloromethane	0.260	0.258	0.8	101	0.00	10.07
52	M	tetrahydrofuran	0.142	0.159	-12.0	119	0.00	10.11
53	M	chloroform	0.845	0.796	5.8	102	0.00	10.11
54		tert-butyl Formate	0.383	0.437	-14.1	106	0.00	10.17
55	M	iso-butyl alcohol	0.006	0.006	0.0	100	0.00	10.55
56	S	dibromofluoromethane (s)	0.419	0.418	0.2	102	0.00	10.32
57	S	1,2-dichloroethane-d4 (s)	0.463	0.472	-1.9	98	0.00	10.75
58	M	freon 113	0.326	0.376	-15.3	107	0.00	7.36
59	M	methacrylonitrile	0.280	0.282	-0.7	101	0.00	10.02
60	M	1,1,1-trichloroethane	0.712	0.731	-2.7	103	0.00	10.39
61	M	tert amyl alcohol		----------NA----------				
62	M	tert-amyl methyl ether	0.332	0.342	-3.0	100	0.00	10.86
63		iso-octane	1.345	1.483	-10.3	101	0.00	10.83
64	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	11.18
65	M	Di-isobutylene		----------NA----------				
66	M	epichlorohydrin	0.033	0.032	3.0	101	0.00	12.47
67	M	n-butyl alcohol	0.009	0.008	11.1	102	0.00	11.28
68	M	Cyclohexane	0.451	0.473	-4.9	103	0.00	10.46
69	M	carbon tetrachloride	0.443	0.459	-3.6	102	0.00	10.58
70	M	1,1-dichloropropene	0.395	0.404	-2.3	98	0.00	10.56
71	M	hexane	0.053	0.050	5.7	92	0.00	8.76
72	M	benzene	1.167	1.203	-3.1	103	0.00	10.82
73	M	heptane		----------NA----------				
74	M	isopropyl acetate	0.546	0.582	-6.6	105	0.00	10.74
75	M	1,2-dichloroethane	0.410	0.420	-2.4	100	0.00	10.83
76	M	ethyl acrylate		----------NA----------				
77		tert amyl ethyl ether		----------NA----------				
78	M	trichloroethene	0.310	0.321	-3.5	103	0.00	11.52
79	M	methylcyclohexane	0.470	0.521	-10.9	104	0.00	11.76
80	M	2-nitropropane	0.121	0.125	-3.3	102	0.00	12.33
81	M	2-chloroethyl vinyl ether	0.144	0.183	-27.1#	114	0.00	12.33
82	M	methyl methacrylate	0.088	0.091	-3.4	103	0.00	11.79
83	M	1,2-dichloropropane	0.297	0.312	-5.1	105	0.00	11.81
84	M	propyl acetate	0.059	0.064	-8.5	108	0.00	11.83
85	M	dibromomethane	0.199	0.200	-0.5	102	0.00	11.95
86	M	bromodichloromethane	0.445	0.439	1.3	101	0.00	12.09
87	M	cis-1,3-dichloropropene	0.514	0.525	-2.1	99	0.00	12.56
88	S	toluene-d8 (s)	1.045	1.102	-5.5	103	0.00	12.87
89	M	4-methyl-2-pentanone	0.124	0.123	0.8	103	0.00	12.68
90	M	toluene	0.755	0.785	-4.0	102	0.00	12.95
91	M	3-methyl-1-butanol	0.014	0.013	7.1	103	0.00	12.67
92	M	trans-1,3-dichloropropene	0.505	0.485	4.0	97	0.00	13.15
93	M	ethyl methacrylate	0.405	0.403	0.5	101	0.00	13.15
94	M	1,1,2-trichloroethane	0.237	0.243	-2.5	103	0.00	13.39
95	M	2-hexanone	0.125	0.115	8.0	96	0.00	13.58

Initial Calibration Verification

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8469-ICV8469
Lab FileID: U183565.D

96	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	14.51
97	M	cyclohexanone	0.051	0.017	66.7#	31#	0.00	15.77
98	M	tetrachloroethene	0.317	0.355	-12.0	110	0.00	13.58
99	M	1,3-dichloropropane	0.497	0.500	-0.6	100	0.00	13.59
100	M	butyl acetate	0.203	0.208	-2.5	101	0.00	13.65
101	M	dibromochloromethane	0.387	0.388	-0.3	97	0.00	13.87
102	M	1,2-dibromoethane	0.327	0.328	-0.3	99	0.00	14.04
103		3,3-dimethyl-1-Butanol	0.027	0.027	0.0	104	0.00	13.75
104		n-butyl ether		----------NA----------				
105	M	chlorobenzene	0.972	0.967	0.5	102	0.00	14.55
106	M	1,1,1,2-tetrachloroethane	0.378	0.378	0.0	99	0.00	14.61
107	M	ethylbenzene	1.562	1.598	-2.3	102	0.00	14.61
108	M	m,p-xylene	0.610	0.629	-3.1	101	0.00	14.73
109	M	o-xylene	0.634	0.626	1.3	100	0.00	15.19
110	M	styrene	1.011	1.078	-6.6	101	0.00	15.20
111	M	bromoform	0.301	0.297	1.3	99	0.00	15.48
112	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	17.09
113	M	isopropylbenzene	2.637	2.775	-5.2	102	0.00	15.57
114	S	4-bromofluorobenzene (s)	0.736	0.754	-2.4	102	0.00	15.79
115	M	bromobenzene	0.754	0.758	-0.5	101	0.00	16.01
116	M	1,1,2,2-tetrachloroethane	0.750	0.707	5.7	97	0.00	15.90
117	M	trans-1,4-dichloro-2-bute	0.197	0.191	3.0	98	0.00	15.95
118	M	1,2,3-trichloropropane	0.206	0.201	2.4	99	0.00	15.99
119	M	n-propylbenzene	2.893	3.200	-10.6	106	0.00	16.03
120	M	2-chlorotoluene	0.667	0.676	-1.3	100	0.00	16.19
121	M	4-chlorotoluene	1.934	1.997	-3.3	100	0.00	16.30
122		p-Ethyltoluene		----------NA----------				
123	M	1,3,5-trimethylbenzene	2.291	2.409	-5.2	101	0.00	16.19
124	M	tert-butylbenzene	2.078	2.204	-6.1	102	0.00	16.59
125	M	pentachloroethane	0.469	0.432	7.9	88	0.00	16.67
126	M	1,2,4-trimethylbenzene	2.322	2.520	-8.5	105	0.00	16.63
127		1,2,3-trimethylbenzene		----------NA----------				
128	M	sec-butylbenzene	2.971	3.143	-5.8	100	0.00	16.82
129	M	1,3-dichlorobenzene	1.522	1.497	1.6	99	0.00	17.03
130	M	p-isopropyltoluene	2.651	2.848	-7.4	103	0.00	16.95
131	M	1,4-dichlorobenzene	1.566	1.531	2.2	100	0.00	17.12
132	M	benzyl chloride	1.495	1.504	-0.6	99	0.00	17.25
133	M	1,2-dichlorobenzene	1.511	1.494	1.1	100	0.00	17.56
134		p-Diethylbenzene		----------NA----------				
135	M	n-butylbenzene	1.286	1.400	-8.9	104	0.00	17.41
136		1,2,4,5-Tetramethylbenzen		----------NA----------				
137	M	1,2-dibromo-3-chloropropa	0.182	0.189	-3.8	103	0.00	18.41
138		1,3,5-trichlorobenzene	1.237	1.322	-6.9	104	0.00	18.62
139	M	1,2,4-trichlorobenzene	1.092	1.136	-4.0	102	0.00	19.36
140	M	hexachlorobutadiene	0.601	0.612	-1.8	102	0.00	19.49
141	M	naphthalene	2.293	2.282	0.5	101	0.00	19.69
142		INDANE		----------NA----------				
143	M	1,2,3-trichlorobenzene	0.935	0.957	-2.4	103	0.00	19.97
144	M	hexachloroethane	0.473	0.510	-7.8	101	0.00	17.85
145	M	MMT		----------NA----------				
146	M	Bis(chloromethyl)ether		----------NA----------				
147	M	Ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U183560.D MU8469.M Tue May 06 13:12:46 2014 RPT1

6.7.2 6

Continuing Calibration Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL
Sample: VU8478-CC8469
Lab FileID: U183729.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\u-...vu8476-8479\u183729.d Vial: 47
Acq On : 10 May 2014 9:34 am Operator: conniex
Sample : cc8469-20 Inst : MSU
Misc : ms67307,vu8478,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MU8469.M (RTE Integrator)
Title : SW-846 8260B, DB624 60m x 250um x 1.40um
Last Update : Tue May 06 13:09:48 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	117	0.00	8.04
2	M	tertiary butyl alcohol	1.074	1.056	1.7	107	0.00	8.15
3		Ethanol		----------NA----------				
		----------	True	Calc.	% Drift	----------		
4	m	1,4-dioxane	500.000	581.478	-16.3	119	0.00	11.91
		----------	AvgRF	CCRF	% Dev	----------		
5	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	10.27
6	M	freon 115		----------NA----------				
7	M	freon 23		----------NA----------				
8	M	freon 143A		----------NA----------				
9	M	freon 152A		----------NA----------				
10	M	chlorotrifluoroethene		----------NA----------				
11	M	chlorodifluoromethane	0.414	0.420	-1.4	92	0.00	4.55
12	M	dichlorodifluoromethane	0.524	0.443	15.5	76	0.00	4.53
13	M	freon 142B		----------NA----------				
14	M	freon 114		----------NA----------				
15	M	chloromethane	0.522	0.456	12.6	84	0.00	4.88
16	M	vinyl chloride	0.535	0.493	7.9	85	-0.01	5.15
17	M	acetaldehyde		----------NA----------				
18	M	bromomethane	0.349	0.333	4.6	89	0.00	5.85
19	M	chloroethane	0.231	0.233	-0.9	91	0.00	6.05
20	M	trichlorofluoromethane	0.732	0.718	1.9	88	0.00	6.54
21	M	pentane		----------NA----------				
22	M	freon 123A		----------NA----------				
23	M	ethyl ether	0.226	0.212	6.2	89	0.00	6.95
24		2-CHLOROPROPANE	0.705	0.673	4.5	88	0.00	7.16
25	M	freon 141B		----------NA----------				
26	M	freon 123		----------NA----------				
27	M	acrolein	0.083	0.083	0.0	97	0.00	7.22
28	M	1,1-dichloroethene	0.420	0.387	7.9	89	0.00	7.39
29	M	acetone	0.055	0.040	27.3#	68	0.00	7.44
30	M	allyl chloride	0.069	0.065	5.8	89	0.00	7.91
31	M	acetonitrile	0.031	0.038	-22.6#	131	0.00	7.90
32	M	iodomethane	0.807	0.788	2.4	90	0.00	7.66
33	M	carbon disulfide	1.407	1.321	6.1	89	0.00	7.79
34		1-CHLOROPROPANE	0.037	0.032	13.5	83	0.00	8.14
35	M	methylene chloride	0.456	0.440	3.5	93	0.00	8.10
36	M	methyl acetate	0.327	0.316	3.4	89	0.00	7.89
37	M	methyl tert butyl ether	1.390	1.296	6.8	89	0.00	8.43

Continuing Calibration Summary

Job Number: JB66517 **Sample:** VU8478-CC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183729.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

38	M	trans-1,2-dichloroethene	0.456	0.415	9.0	90	0.00	8.47
39	M	di-isopropyl ether	1.347	1.294	3.9	90	0.00	9.01
40	M	ethyl tert-butyl ether	1.397	1.349	3.4	91	0.00	9.47
41	M	2-butanone	0.059	0.048	18.6	76	0.00	9.73
42	M	1,1-dichloroethane	0.767	0.736	4.0	91	0.00	9.03
43	M	chloroprene	0.595	0.586	1.5	90	0.00	9.14
44	M	acrylonitrile	0.153	0.151	1.3	91	0.00	8.43
45	M	vinyl acetate	0.079	0.077	2.5	91	0.00	9.02
46	M	ethyl acetate	0.059	0.055	6.8	86	0.00	9.74
47	M	2,2-dichloropropane	0.671	0.669	0.3	93	0.00	9.78
48	M	cis-1,2-dichloroethene	0.503	0.468	7.0	90	0.00	9.76
49	M	methyl acrylate	0.478	0.452	5.4	90	0.00	9.83
50	M	propionitrile	0.062	0.061	1.6	94	0.00	9.84
51	M	bromochloromethane	0.260	0.247	5.0	92	0.00	10.07
52	M	tetrahydrofuran	0.142	0.121	14.8	79	0.00	10.11
53	M	chloroform	0.845	0.753	10.9	89	0.00	10.12
54		tert-butyl Formate	0.383	0.381	0.5	90	0.00	10.18
55	M	iso-butyl alcohol	0.006	0.006	0.0	93	0.00	10.56
56	S	dibromofluoromethane (s)	0.419	0.442	-5.5	103	0.00	10.31
57	S	1,2-dichloroethane-d4 (s)	0.463	0.487	-5.2	97	0.00	10.74
58	M	freon 113	0.326	0.339	-4.0	87	0.00	7.35
59	M	methacrylonitrile	0.280	0.252	10.0	86	0.00	10.02
60	M	1,1,1-trichloroethane	0.712	0.700	1.7	91	0.00	10.39
61	M	tert amyl alcohol		----------NA----------				
62	M	tert-amyl methyl ether	0.332	0.316	4.8	88	0.00	10.85
63		iso-octane	1.345	1.240	7.8	77	0.00	10.83
64	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	11.18
65	M	Di-isobutylene		----------NA----------				
66	M	epichlorohydrin	0.033	0.031	6.1	89	0.00	12.47
67	M	n-butyl alcohol	0.009	0.009	0.0	90	0.00	11.28
68	M	Cyclohexane	0.451	0.451	0.0	93	0.00	10.46
69	M	carbon tetrachloride	0.443	0.453	-2.3	92	0.00	10.59
70	M	1,1-dichloropropene	0.395	0.392	0.8	88	0.00	10.56
71	M	hexane	0.053	0.048	9.4	82	0.00	8.77
72	M	benzene	1.167	1.127	3.4	90	0.00	10.82
73	M	heptane	0.181	0.163	9.9	80	0.00	10.98
74	M	isopropyl acetate	0.546	0.510	6.6	87	0.00	10.73
75	M	1,2-dichloroethane	0.410	0.406	1.0	91	0.00	10.83
76	M	ethyl acrylate		----------NA----------				
77		tert amyl ethyl ether		----------NA----------				
78	M	trichloroethene	0.310	0.306	1.3	91	0.00	11.52
79	M	methylcyclohexane	0.470	0.471	-0.2	85	0.00	11.76
80	M	2-nitropropane	0.121	0.112	7.4	87	0.00	12.33
81	M	2-chloroethyl vinyl ether	0.144	0.133	7.6	86	0.00	12.33
82	M	methyl methacrylate	0.088	0.082	6.8	89	0.00	11.79
83	M	1,2-dichloropropane	0.297	0.288	3.0	91	0.00	11.81
84	M	propyl acetate	0.059	0.058	1.7	90	0.00	11.84
85	M	dibromomethane	0.199	0.188	5.5	91	0.00	11.96
86	M	bromodichloromethane	0.445	0.410	7.9	89	0.00	12.08
87	M	cis-1,3-dichloropropene	0.514	0.496	3.5	89	0.00	12.56
88	S	toluene-d8 (s)	1.045	1.160	-11.0	102	0.00	12.88
89	M	4-methyl-2-pentanone	0.124	0.110	11.3	88	0.00	12.67
90	M	toluene	0.755	0.745	1.3	91	0.00	12.96
91	M	3-methyl-1-butanol	0.014	0.013	7.1	85	0.00	12.67
92	M	trans-1,3-dichloropropene	0.505	0.482	4.6	89	0.00	13.15
93	M	ethyl methacrylate	0.405	0.372	8.1	88	0.00	13.15
94	M	1,1,2-trichloroethane	0.237	0.223	5.9	88	0.00	13.39
95	M	2-hexanone	0.125	0.103	17.6	79	0.00	13.58

Continuing Calibration Summary

Job Number: JB66517 **Sample:** VU8478-CC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183729.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

96	I	chlorobenzene-d5	1.000	1.000	0.0	97	0.00	14.51
97	M	cyclohexanone	0.051	0.011	78.4#	20#	0.00	15.77
98	M	tetrachloroethene	0.317	0.295	6.9	84	0.00	13.57
99	M	1,3-dichloropropane	0.497	0.482	3.0	90	0.00	13.59
100	M	butyl acetate	0.203	0.189	6.9	84	0.00	13.65
101	M	dibromochloromethane	0.387	0.376	2.8	88	0.00	13.87
102	M	1,2-dibromoethane	0.327	0.315	3.7	88	0.00	14.04
103		3,3-dimethyl-1-Butanol	0.027	0.025	7.4	89	0.00	13.75
104		n-butyl ether		----------NA----------				
105	M	chlorobenzene	0.972	0.925	4.8	88	0.00	14.55
106	M	1,1,1,2-tetrachloroethane	0.378	0.376	0.5	90	0.00	14.61
107	M	ethylbenzene	1.562	1.530	2.0	89	0.00	14.61
108	M	m,p-xylene	0.610	0.602	1.3	89	0.00	14.73
109	M	o-xylene	0.634	0.610	3.8	89	0.00	15.19
110	M	styrene	1.011	1.009	0.2	87	0.00	15.20
111	M	bromoform	0.301	0.280	7.0	85	0.00	15.49
112	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	17.09
113	M	isopropylbenzene	2.637	2.622	0.6	88	0.00	15.57
114	S	4-bromofluorobenzene (s)	0.736	0.804	-9.2	99	0.00	15.79
115	M	bromobenzene	0.754	0.743	1.5	89	0.00	16.02
116	M	1,1,2,2-tetrachloroethane	0.750	0.691	7.9	87	0.00	15.90
117	M	trans-1,4-dichloro-2-bute	0.197	0.166	15.7	77	0.00	15.95
118	M	1,2,3-trichloropropane	0.206	0.194	5.8	83	0.00	15.99
119	M	n-propylbenzene	2.893	2.884	0.3	87	0.00	16.03
120	M	2-chlorotoluene	0.667	0.652	2.2	86	0.00	16.19
121	M	4-chlorotoluene	1.934	1.886	2.5	87	0.00	16.30
122		p-Ethyltoluene		----------NA----------				
123	M	1,3,5-trimethylbenzene	2.291	2.267	1.0	85	0.00	16.19
124	M	tert-butylbenzene	2.078	2.086	-0.4	87	0.00	16.59
125	M	pentachloroethane	0.469	0.485	-3.4	91	0.00	16.67
126	M	1,2,4-trimethylbenzene	2.322	2.272	2.2	86	0.00	16.63
127		1,2,3-trimethylbenzene		----------NA----------				
128	M	sec-butylbenzene	2.971	2.932	1.3	85	0.00	16.83
129	M	1,3-dichlorobenzene	1.522	1.446	5.0	86	0.00	17.03
130	M	p-isopropyltoluene	2.651	2.610	1.5	84	0.00	16.96
131	M	1,4-dichlorobenzene	1.566	1.465	6.4	85	0.00	17.12
132	M	benzyl chloride	1.495	1.418	5.2	86	0.00	17.25
133	M	1,2-dichlorobenzene	1.511	1.432	5.2	87	0.00	17.56
134		p-Diethylbenzene		----------NA----------				
135	M	n-butylbenzene	1.286	1.207	6.1	81	0.00	17.42
136		1,2,4,5-Tetramethylbenzen		----------NA----------				
137	M	1,2-dibromo-3-chloropropa	0.182	0.176	3.3	87	0.00	18.42
138		1,3,5-trichlorobenzene	1.237	1.217	1.6	85	0.00	18.63
139	M	1,2,4-trichlorobenzene	1.092	1.045	4.3	84	0.00	19.36
140	M	hexachlorobutadiene	0.601	0.547	9.0	80	0.00	19.49
141	M	naphthalene	2.293	2.024	11.7	80	0.00	19.69
142		INDANE		----------NA----------				
143	M	1,2,3-trichlorobenzene	0.935	0.865	7.5	82	0.00	19.96
144	M	hexachloroethane	0.473	0.471	0.4	84	0.00	17.85
145	M	MMT		----------NA----------				
146	M	Bis(chloromethyl)ether		----------NA----------				
147	M	Ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U183559.D MU8469.M Mon May 12 15:22:38 2014 RPT1

6.7.3

6

Continuing Calibration Summary

Job Number: JB66517
Account: UTC United Technologies Corporation
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

Sample: VU8483-CC8469
Lab FileID: U183819.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\u-...vu8483-8484\u183819.d Vial: 2
Acq On : 13 May 2014 9:17 am Operator: conniex
Sample : cc8469-20 Inst : MSU
Misc : ms67262,vu8483,5.0,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MU8469.M (RTE Integrator)
Title : SW-846 8260B, DB624 60m x 250um x 1.40um
Last Update : Tue May 06 13:09:48 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	118	0.02	8.06
2 M	tertiary butyl alcohol	1.074	1.122	-4.5	115	0.02	8.17
3	Ethanol		----------NA----------				
	----------	True	Calc.	% Drift	----------		
4 m	1,4-dioxane	500.000	527.171	-5.4	109	0.01	11.92
	----------	AvgRF	CCRF	% Dev	----------		
5 I	pentafluorobenzene	1.000	1.000	0.0	94	0.00	10.26
6 M	freon 115		----------NA----------				
7 M	freon 23		----------NA----------				
8 M	freon 143A		----------NA----------				
9 M	freon 152A		----------NA----------				
10 M	chlorotrifluoroethene		----------NA----------				
11 M	chlorodifluoromethane	0.414	0.442	-6.8	91	0.00	4.54
12 M	dichlorodifluoromethane	0.524	0.673	-28.4#	108	0.00	4.52
13 M	freon 142B		----------NA----------				
14 M	freon 114		----------NA----------				
15 M	chloromethane	0.522	0.604	-15.7	104	0.00	4.88
16 M	vinyl chloride	0.535	0.614	-14.8	99	0.00	5.16
17 M	acetaldehyde		----------NA----------				
18 M	bromomethane	0.349	0.401	-14.9	101	0.00	5.85
19 M	chloroethane	0.231	0.265	-14.7	97	0.00	6.04
20 M	trichlorofluoromethane	0.732	0.844	-15.3	97	0.00	6.55
21 M	pentane		----------NA----------				
22 M	freon 123A		----------NA----------				
23 M	ethyl ether	0.226	0.238	-5.3	94	0.00	6.95
24	2-CHLOROPROPANE	0.705	0.740	-5.0	91	0.00	7.16
25 M	freon 141B		----------NA----------				
26 M	freon 123		----------NA----------				
27 M	acrolein	0.083	0.086	-3.6	94	0.00	7.22
28 M	1,1-dichloroethene	0.420	0.412	1.9	89	0.00	7.38
29 M	acetone	0.055	0.044	20.0	69	0.02	7.45
30 M	allyl chloride	0.069	0.074	-7.2	95	0.00	7.91
31 M	acetonitrile	0.031	0.038	-22.6#	124	0.00	7.90
32 M	iodomethane	0.807	0.850	-5.3	91	0.00	7.67
33 M	carbon disulfide	1.407	1.410	-0.2	89	0.00	7.79
34	1-CHLOROPROPANE	0.037	0.038	-2.7	93	0.00	8.13
35 M	methylene chloride	0.456	0.484	-6.1	95	0.00	8.09
36 M	methyl acetate	0.327	0.352	-7.6	92	0.00	7.90
37 M	methyl tert butyl ether	1.390	1.439	-3.5	93	0.00	8.43

Continuing Calibration Summary

Job Number: JB66517 **Sample:** VU8483-CC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183819.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

38	M	trans-1,2-dichloroethene	0.456	0.454	0.4	92	0.00	8.47
39	M	di-isopropyl ether	1.347	1.416	-5.1	92	0.00	9.01
40	M	ethyl tert-butyl ether	1.397	1.468	-5.1	92	0.00	9.48
41	M	2-butanone	0.059	0.051	13.6	76	0.00	9.74
42	M	1,1-dichloroethane	0.767	0.815	-6.3	94	0.00	9.04
43	M	chloroprene	0.595	0.618	-3.9	89	0.00	9.14
44	M	acrylonitrile	0.153	0.170	-11.1	96	0.00	8.43
45	M	vinyl acetate	0.079	0.079	0.0	88	0.00	9.01
46	M	ethyl acetate	0.059	0.063	-6.8	93	0.00	9.74
47	M	2,2-dichloropropane	0.671	0.775	-15.5	101	0.00	9.78
48	M	cis-1,2-dichloroethene	0.503	0.504	-0.2	91	0.00	9.76
49	M	methyl acrylate	0.478	0.496	-3.8	93	0.00	9.82
50	M	propionitrile	0.062	0.069	-11.3	100	0.00	9.84
51	M	bromochloromethane	0.260	0.269	-3.5	94	0.00	10.07
52	M	tetrahydrofuran	0.142	0.140	1.4	85	0.00	10.11
53	M	chloroform	0.845	0.807	4.5	90	0.00	10.11
54		tert-butyl Formate	0.383	0.418	-9.1	93	0.00	10.18
55	M	iso-butyl alcohol	0.006	0.005	16.7	70	0.00	10.55
56	S	dibromofluoromethane (s)	0.419	0.452	-7.9	98	0.00	10.31
57	S	1,2-dichloroethane-d4 (s)	0.463	0.497	-7.3	93	0.00	10.74
58	M	freon 113	0.326	0.355	-8.9	85	0.00	7.36
59	M	methacrylonitrile	0.280	0.281	-0.4	90	0.00	10.02
60	M	1,1,1-trichloroethane	0.712	0.761	-6.9	93	0.00	10.39
61	M	tert amyl alcohol		----------NA----------				
62	M	tert-amyl methyl ether	0.332	0.352	-6.0	92	0.00	10.85
63		iso-octane	1.345	1.385	-3.0	81	0.00	10.83
64	I	1,4-difluorobenzene	1.000	1.000	0.0	93	0.00	11.18
65	M	Di-isobutylene		----------NA----------				
66	M	epichlorohydrin	0.033	0.036	-9.1	99	0.00	12.47
67	M	n-butyl alcohol	0.009	0.010	-11.1	101	0.00	11.29
68	M	Cyclohexane	0.451	0.478	-6.0	92	0.00	10.46
69	M	carbon tetrachloride	0.443	0.489	-10.4	93	0.00	10.58
70	M	1,1-dichloropropene	0.395	0.414	-4.8	87	0.00	10.55
71	M	hexane	0.053	0.050	5.7	80	0.00	8.76
72	M	benzene	1.167	1.201	-2.9	90	0.00	10.82
73	M	heptane	0.181	0.188	-3.9	86	0.00	10.98
74	M	isopropyl acetate	0.546	0.574	-5.1	92	0.00	10.73
75	M	1,2-dichloroethane	0.410	0.431	-5.1	90	0.00	10.83
76	M	ethyl acrylate		----------NA----------				
77		tert amyl ethyl ether		----------NA----------				
78	M	trichloroethene	0.310	0.316	-1.9	88	0.00	11.52
79	M	methylcyclohexane	0.470	0.490	-4.3	83	0.00	11.76
80	M	2-nitropropane	0.121	0.122	-0.8	88	0.00	12.33
81	M	2-chloroethyl vinyl ether	0.144	0.139	3.5	84	0.00	12.33
82	M	methyl methacrylate	0.088	0.091	-3.4	92	0.00	11.79
83	M	1,2-dichloropropane	0.297	0.308	-3.7	91	0.00	11.80
84	M	propyl acetate	0.059	0.063	-6.8	91	0.00	11.83
85	M	dibromomethane	0.199	0.204	-2.5	93	0.00	11.95
86	M	bromodichloromethane	0.445	0.451	-1.3	91	0.00	12.08
87	M	cis-1,3-dichloropropene	0.514	0.542	-5.4	91	0.00	12.56
88	S	toluene-d8 (s)	1.045	1.192	-14.1	99	0.00	12.87
89	M	4-methyl-2-pentanone	0.124	0.128	-3.2	96	0.00	12.68
90	M	toluene	0.755	0.802	-6.2	91	0.00	12.95
91	M	3-methyl-1-butanol	0.014	0.015	-7.1	96	0.00	12.67
92	M	trans-1,3-dichloropropene	0.505	0.528	-4.6	91	0.00	13.15
93	M	ethyl methacrylate	0.405	0.415	-2.5	92	0.00	13.15
94	M	1,1,2-trichloroethane	0.237	0.249	-5.1	92	0.00	13.39
95	M	2-hexanone	0.125	0.120	4.0	86	0.00	13.58

Continuing Calibration Summary

Job Number: JB66517 **Sample:** VU8483-CC8469
Account: UTC United Technologies Corporation **Lab FileID:** U183819.D
Project: ENSRILW: UTAS Plants 1/2 Facility, Rockford, IL

96	I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00	14.51
97	M	cyclohexanone	0.051	0.012	76.5#	21#	0.00	15.77
98	M	tetrachloroethene	0.317	0.304	4.1	85	0.00	13.58
99	M	1,3-dichloropropane	0.497	0.497	0.0	91	0.00	13.59
100	M	butyl acetate	0.203	0.213	-4.9	93	0.00	13.65
101	M	dibromochloromethane	0.387	0.398	-2.8	91	0.00	13.87
102	M	1,2-dibromoethane	0.327	0.336	-2.8	93	0.00	14.04
103		3,3-dimethyl-1-Butanol	0.027	0.028	-3.7	98	0.00	13.75
104		n-butyl ether		----------NA----------				
105	M	chlorobenzene	0.972	0.963	0.9	90	0.00	14.55
106	M	1,1,1,2-tetrachloroethane	0.378	0.382	-1.1	90	0.00	14.61
107	M	ethylbenzene	1.562	1.600	-2.4	91	0.00	14.61
108	M	m,p-xylene	0.610	0.622	-2.0	91	0.00	14.73
109	M	o-xylene	0.634	0.630	0.6	90	0.00	15.19
110	M	styrene	1.011	1.062	-5.0	90	0.00	15.20
111	M	bromoform	0.301	0.297	1.3	89	0.00	15.48
112	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	93	0.00	17.09
113	M	isopropylbenzene	2.637	2.744	-4.1	90	0.00	15.57
114	S	4-bromofluorobenzene (s)	0.736	0.802	-9.0	97	0.00	15.79
115	M	bromobenzene	0.754	0.778	-3.2	91	0.00	16.01
116	M	1,1,2,2-tetrachloroethane	0.750	0.742	1.1	91	0.00	15.90
117	M	trans-1,4-dichloro-2-bute	0.197	0.182	7.6	83	0.00	15.95
118	M	1,2,3-trichloropropane	0.206	0.211	-2.4	88	0.00	15.99
119	M	n-propylbenzene	2.893	2.987	-3.2	88	0.00	16.03
120	M	2-chlorotoluene	0.667	0.685	-2.7	89	0.00	16.19
121	M	4-chlorotoluene	1.934	1.979	-2.3	89	0.00	16.30
122		p-Ethyltoluene		----------NA----------				
123	M	1,3,5-trimethylbenzene	2.291	2.370	-3.4	87	0.00	16.19
124	M	tert-butylbenzene	2.078	2.110	-1.5	86	0.00	16.59
125	M	pentachloroethane	0.469	0.524	-11.7	96	0.00	16.67
126	M	1,2,4-trimethylbenzene	2.322	2.383	-2.6	88	0.00	16.63
127		1,2,3-trimethylbenzene		----------NA----------				
128	M	sec-butylbenzene	2.971	3.052	-2.7	86	0.00	16.82
129	M	1,3-dichlorobenzene	1.522	1.523	-0.1	89	0.00	17.03
130	M	p-isopropyltoluene	2.651	2.711	-2.3	86	0.00	16.95
131	M	1,4-dichlorobenzene	1.566	1.534	2.0	87	0.00	17.12
132	M	benzyl chloride	1.495	1.730	-15.7	102	0.00	17.25
133	M	1,2-dichlorobenzene	1.511	1.505	0.4	90	0.00	17.56
134		p-Diethylbenzene		----------NA----------				
135	M	n-butylbenzene	1.286	1.267	1.5	83	0.00	17.41
136		1,2,4,5-Tetramethylbenzen		----------NA----------				
137	M	1,2-dibromo-3-chloropropa	0.182	0.189	-3.8	91	0.00	18.42
138		1,3,5-trichlorobenzene	1.237	1.284	-3.8	88	0.00	18.62
139	M	1,2,4-trichlorobenzene	1.092	1.102	-0.9	87	0.00	19.35
140	M	hexachlorobutadiene	0.601	0.550	8.5	79	0.00	19.49
141	M	naphthalene	2.293	2.239	2.4	87	0.00	19.68
142		INDANE		----------NA----------				
143	M	1,2,3-trichlorobenzene	0.935	0.923	1.3	86	0.00	19.96
144	M	hexachloroethane	0.473	0.479	-1.3	84	0.00	17.84
145	M	MMT		----------NA----------				
146	M	Bis(chloromethyl)ether		----------NA----------				
147	M	Ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U183559.D MU8469.M Wed May 14 13:57:55 2014 RPT1

6.7.4 6

New Jersey
ACCUTEST
LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183735.d
Acq On : 10 May 2014 1:01 pm
Operator : conniex
Sample : jb66517-1
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Time: May 12 15:36:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	8.062	65	141085	500.00	ug/L	0.02
5) pentafluorobenzene	10.269	168	264906	50.00	ug/L	0.00
64) 1,4-difluorobenzene	11.185	114	375799	50.00	ug/L	0.00
96) chlorobenzene-d5	14.516	117	362935	50.00	ug/L	0.00
112) 1,4-dichlorobenzene-d4	17.089	152	225838	50.00	ug/L	0.00
System Monitoring Compounds						
56) dibromofluoromethane (s)	10.316	113	116236	52.32	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery = 104.64%			
57) 1,2-dichloroethane-d4 (s)	10.745	65	132186	53.86	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery = 107.72%			
88) toluene-d8 (s)	12.879	98	443035	56.39	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery = 112.78%			
114) 4-bromofluorobenzene (s)	15.792	95	178774	53.74	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery = 107.48%			
Target Compounds						Qvalue
29) acetone	7.440	58	6675	22.78	ug/L	91
41) 2-butanone	9.736	72	2302	7.40	ug/L #	1
42) 1,1-dichloroethane	9.030	63	8422	2.07	ug/L	95
48) cis-1,2-dichloroethene	9.757	96	4120	1.55	ug/L #	81
60) 1,1,1-trichloroethane	10.390	97	5002	1.33	ug/L	77
98) tetrachloroethene	13.564	164	561	0.24	ug/L #	75
108) m,p-xylene	14.731	106	1871	0.42	ug/L #	59
109) o-xylene	15.196	106	1239	0.27	ug/L	83
113) isopropylbenzene	15.573	105	2585	0.22	ug/L	95
119) n-propylbenzene	16.028	91	3504	0.27	ug/L	94
123) 1,3,5-trimethylbenzene	16.195	105	74080	7.16	ug/L	95
124) tert-butylbenzene	16.587	119	2682	0.29	ug/L	84
126) 1,2,4-trimethylbenzene	16.634	105	114706	10.94	ug/L	99
128) sec-butylbenzene	16.828	105	4056	0.30	ug/L	84
130) p-isopropyltoluene	16.959	119	29151	2.43	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

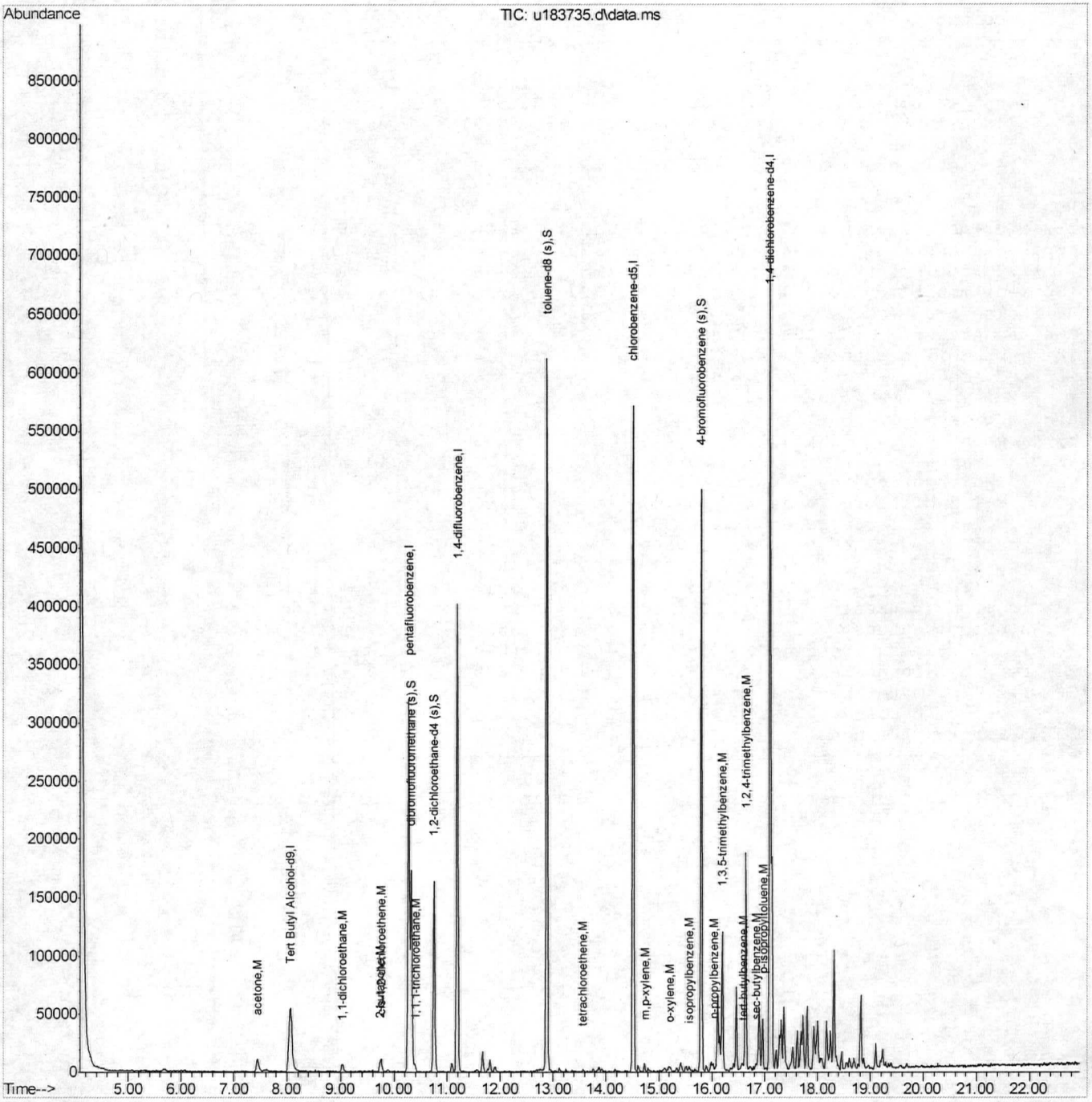
7.1.1

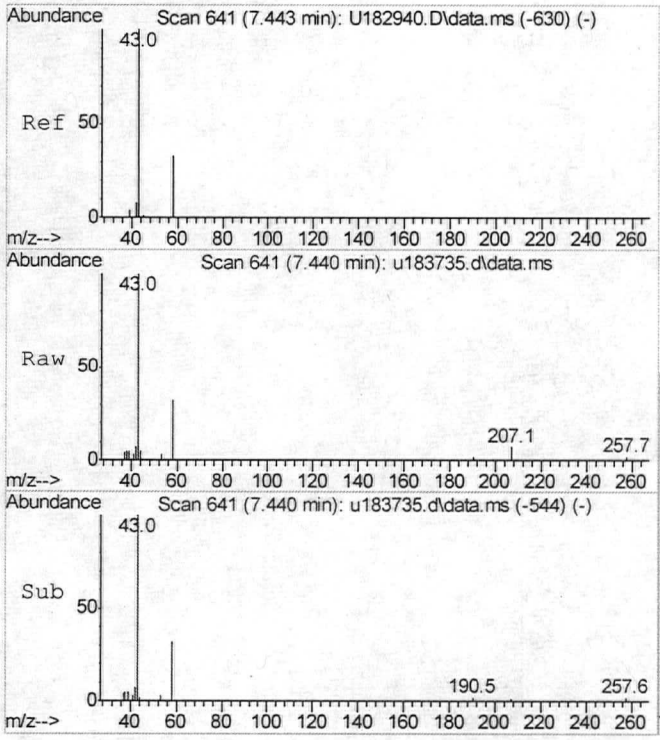
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\u-core\vu8476-8479\
Data File : u183735.d
Acq On : 10 May 2014 1:01 pm
Operator : conniex
Sample : jb66517-1
Misc : ms67307,vu8478,5.0,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Time: May 12 15:36:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MU8469.M
Quant Title : SW-846 8260B, DB624 60m x 250um x 1.40um
QLast Update : Tue May 06 13:09:48 2014
Response via : Initial Calibration

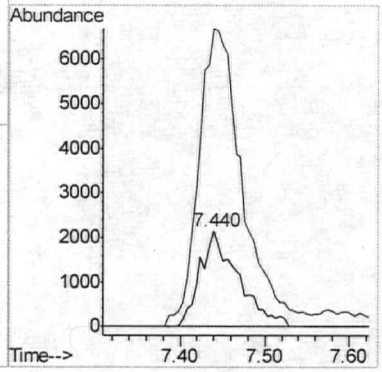


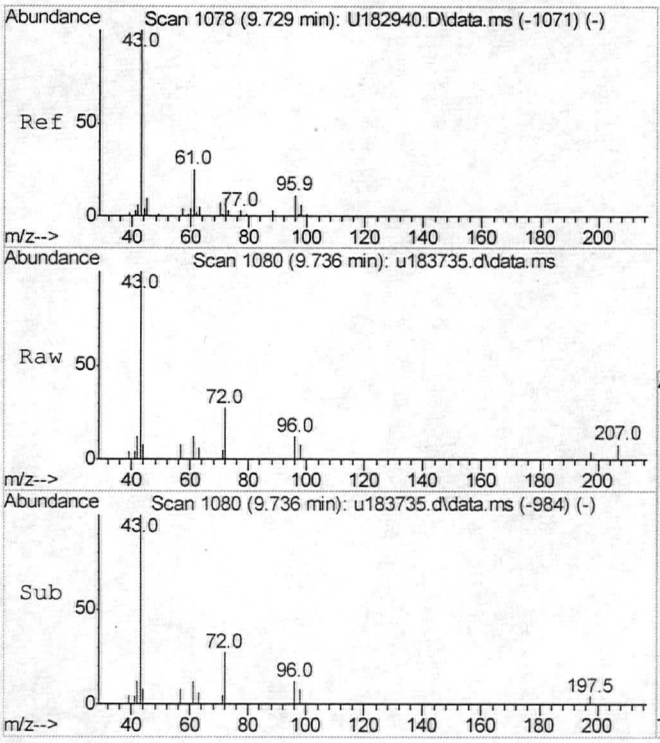


#29
acetone
Concen: 22.78 ug/L
RT: 7.440 min Scan# 641
Delta R.T. 0.005 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion: 58 Resp: 6675

Ion	Ratio	Lower	Upper
58	100		
43	360.7	311.4	371.4

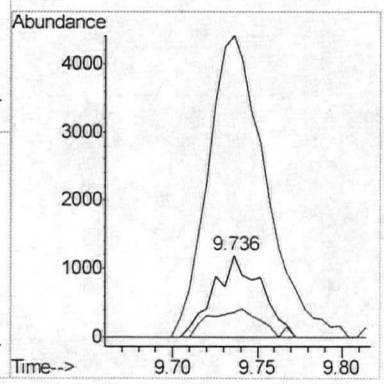




#41
2-butanone
Concen: 7.40 ug/L
RT: 9.736 min Scan# 1080
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

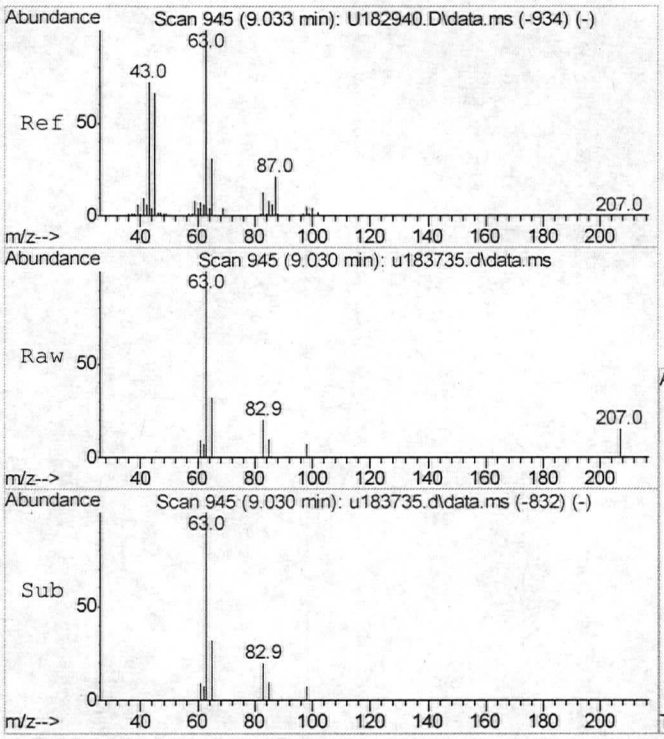
Tgt Ion: 72 Resp: 2302

Ion	Ratio	Lower	Upper
72	100		
43	454.6	1011.6	1071.6#
57	38.6	1.4	61.4



7.1.1

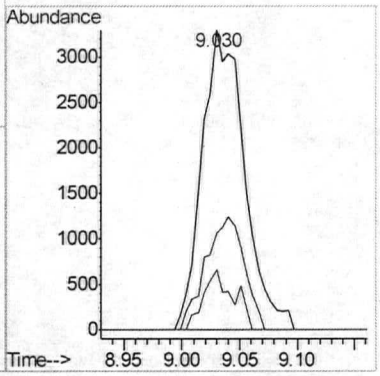
7

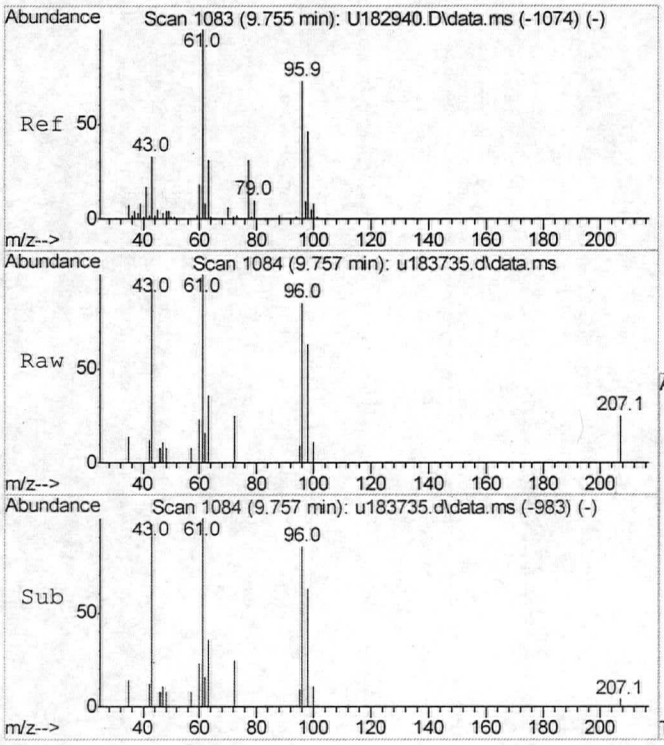


#42
1,1-dichloroethane
Concen: 2.07 ug/L
RT: 9.030 min Scan# 945
Delta R.T. -0.001 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion: 63 Resp: 8422

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.7	61.7
83	20.0	0.0	43.5

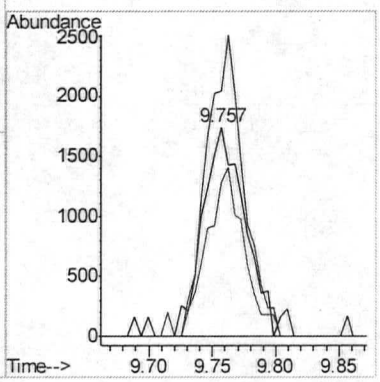




#48
cis-1,2-dichloroethene
Concen: 1.55 ug/L
RT: 9.757 min Scan# 1084
Delta R.T. -0.001 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

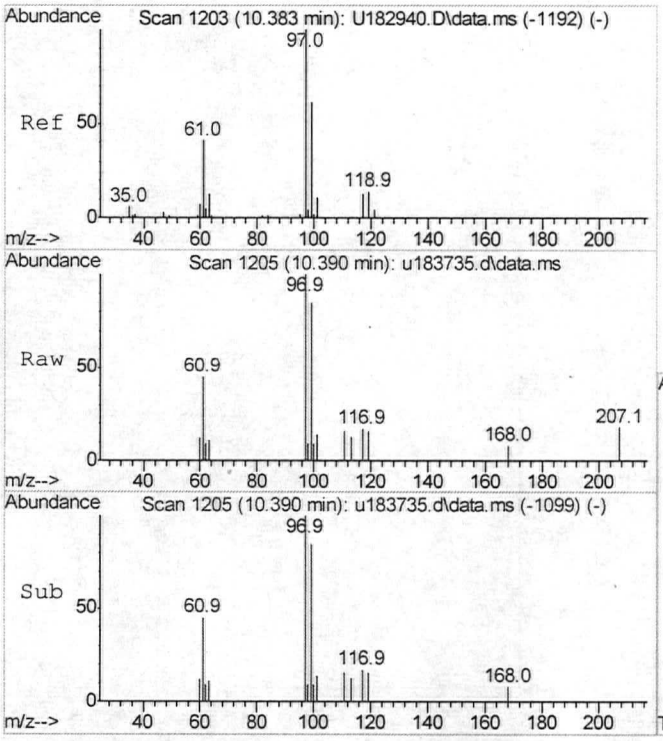
Tgt Ion: 96 Resp: 4120

Ion	Ratio	Lower	Upper
96	100		
61	117.5	117.8	177.8#
98	73.7	36.4	96.4



7.1.1

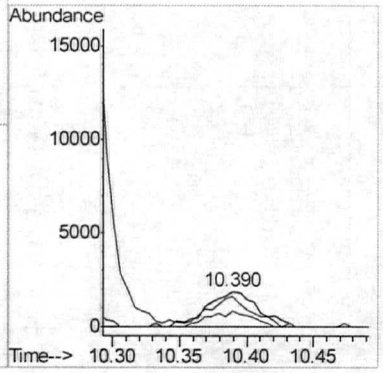
7

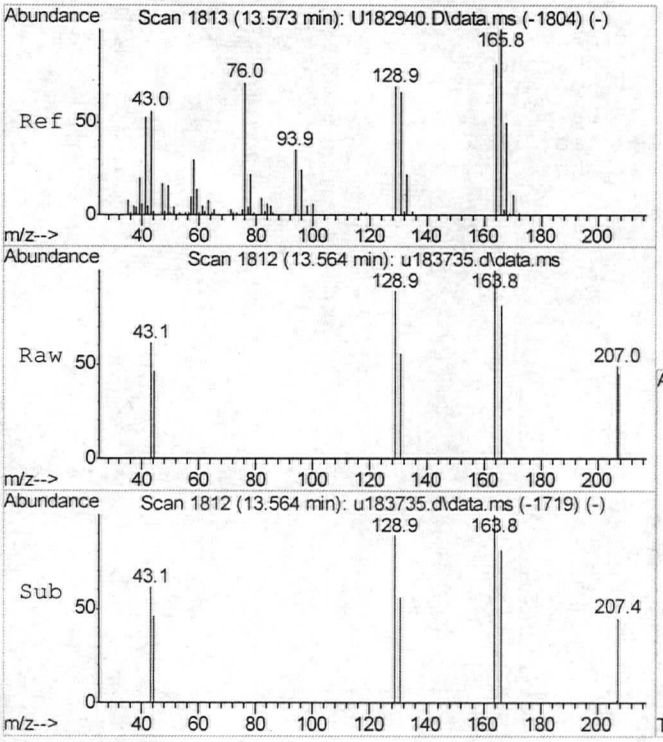


#60
1,1,1-trichloroethane
Concen: 1.33 ug/L
RT: 10.390 min Scan# 1205
Delta R.T. 0.004 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion: 97 Resp: 5002

Ion	Ratio	Lower	Upper
97	100		
99	85.1	30.1	90.1
61	44.9	9.5	69.5

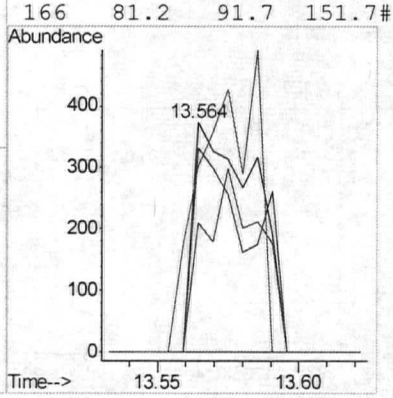




#98
tetrachloroethene
Concen: 0.24 ug/L
RT: 13.564 min Scan# 1812
Delta R.T. -0.012 min
Lab File: u183735.d
Acq: 10 May 2014 1:01 pm

Tgt Ion:164 Resp: 561

Ion	Ratio	Lower	Upper
164	100		
129	89.0	55.7	115.7
131	56.3	52.8	112.8
166	81.2	91.7	151.7#



7.1.1

7