

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061841.D
 Acq On : 5 Mar 2019 2:33
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:42 AM

Quant Time: Mar 05 05:55:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	288045	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	430663	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	367174	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	201068	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	115166	54.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	109.04%	
35) Dibromofluoromethane	4.11	113	158289	49.49	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	98.98%	
50) Toluene-d8	7.55	98	458032	49.82	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	99.64%	
62) 4-Bromofluorobenzene	11.41	95	181114	48.69	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	97.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	163767	49.508	ug/l	94
3) Chloromethane	1.10	50	159891	46.069	ug/l	96
4) Vinyl Chloride	1.14	62	155498	48.195	ug/l	93
5) Bromomethane	1.32	94	117295	52.822	ug/l	99
6) Chloroethane	1.38	64	80672	50.736	ug/l	96
7) Trichlorofluoromethane	1.49	101	195510m	50.240	ug/l	
8) Diethyl Ether	1.62	74	43809	44.671	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.83	101	134662	47.967	ug/l	90
10) Methyl Iodide	1.90	142	266671m	49.727	ug/l	
11) Tert butyl alcohol	2.57	59	27783	227.273	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	123282	49.947	ug/l	93
13) Acrolein	2.00	56	34686	225.761	ug/l	90
14) Allyl chloride	2.09	41	142133	46.927	ug/l	97
15) Acrylonitrile	2.94	53	90161	207.932	ug/l #	91
16) Acetone	2.23	43	80111	176.767	ug/l	94
17) Carbon Disulfide	1.83	76	378556	48.792	ug/l	99
18) Methyl Acetate	2.34	43	49331m	48.319	ug/l	
19) Methyl tert-butyl Ether	2.42	73	210707	49.950	ug/l	100
20) Methylene Chloride	2.18	84	123809m	45.224	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	129669	48.326	ug/l	97
22) Diisopropyl ether	2.80	45	376906	51.841	ug/l	97
23) Vinyl Acetate	3.18	43	831186	234.064	ug/l	97
24) 1,1-Dichloroethane	2.87	63	211447	48.058	ug/l	99
25) 2-Butanone	4.33	43	197469	199.478	ug/l	99
26) 2,2-Dichloropropane	3.60	77	88333	47.397	ug/l	93
27) cis-1,2-Dichloroethene	3.47	96	169933	48.251	ug/l	98
28) Bromochloromethane	3.71	49	91958	43.559	ug/l	98
29) Tetrahydrofuran	4.07	42	91262	202.835	ug/l	98
30) Chloroform	3.85	83	242505	48.466	ug/l	100
31) Cyclohexane	3.68	56	212740m	44.665	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	158969	48.500	ug/l	99
36) 1,1-Dichloropropene	4.27	75	202251	47.407	ug/l	95
37) Ethyl Acetate	4.11	43	83427	42.102	ug/l	90
38) Carbon Tetrachloride	3.98	117	154807	52.550	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	243297	48.220	ug/l	100
40) Benzene	4.62	78	549984	49.286	ug/l	97
41) Methacrylonitrile	4.74	41	45647	45.045	ug/l	96
42) 1,2-Dichloroethane	4.94	62	139368	52.211	ug/l	93
43) Isopropyl Acetate	6.95	43	101317	43.195	ug/l #	93
44) Trichloroethene	5.50	130	167142	46.318	ug/l	96
45) 1,2-Dichloropropane	6.23	63	124778	46.260	ug/l	96
46) Dibromomethane	6.08	93	79471	47.852	ug/l	93
47) Bromodichloromethane	6.38	83	184061	50.610	ug/l	94
48) Methyl methacrylate	6.71	41	64468	45.672	ug/l	98
49) 1,4-Dioxane	6.69	88	11803	889.511	ug/l #	86
51) 4-Methyl-2-Pentanone	8.25	43	354165	211.319	ug/l	97
52) Toluene	7.62	92	306241	45.250	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	146307	48.336	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	194609	48.269	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	94087	47.317	ug/l	94
56) Ethyl methacrylate	8.61	69	103658	46.823	ug/l	93
57) 1,3-Dichloropropane	8.84	76	154022	46.407	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.28	63	74575	195.239	ug/l	96
59) 2-Hexanone	9.48	43	237268	201.962	ug/l	98
60) Dibromochloromethane	8.71	129	132044	47.710	ug/l	98
61) 1,2-Dibromoethane	8.98	107	98196	45.530	ug/l	97
64) Tetrachloroethene	8.14	164	157408	52.448	ug/l	97
65) Chlorobenzene	9.79	112	360948	48.444	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	145151	49.716	ug/l	98
67) Ethyl Benzene	9.89	91	616757	49.776	ug/l	98
68) m/p-Xylenes	10.12	106	452266	95.374	ug/l	98
69) o-Xylene	10.71	106	255121	50.419	ug/l	94
70) Styrene	10.78	104	355718	49.693	ug/l	99
71) Bromoform	10.76	173	76653	48.349	ug/l	97
73) Isopropylbenzene	11.12	105	718018	50.156	ug/l	98
74) N-amyl acetate	11.37	43	160760	46.785	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.69	83	116283	45.340	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	81234	46.587	ug/l	98
77) Bromobenzene	11.48	156	165017	46.660	ug/l	87
78) n-propylbenzene	11.58	91	774336	47.136	ug/l	96
79) 2-Chlorotoluene	11.71	91	450738	48.992	ug/l	95
80) 1,3,5-Trimethylbenzene	11.82	105	557652	48.739	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	35036m	41.911	ug/l	
82) 4-Chlorotoluene	11.89	91	450647	47.191	ug/l	93
83) tert-Butylbenzene	12.13	119	611058	48.218	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	554641	48.794	ug/l	96
85) sec-Butylbenzene	12.30	105	768120	46.871	ug/l	99
86) p-Isopropyltoluene	12.45	119	649375	47.215	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	313472	45.466	ug/l	96
88) 1,4-Dichlorobenzene	12.56	146	320969	48.406	ug/l	98
89) n-Butylbenzene	12.84	91	607302	46.762	ug/l	99
90) Hexachloroethane	12.91	117	162580	50.827	ug/l	97
91) 1,2-Dichlorobenzene	12.93	146	300086	45.759	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	16818	41.360	ug/l	83

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93) 1,2,4-Trichlorobenzene	14.20	180	207221	44.084	ug/l	99
94) Hexachlorobutadiene	14.19	225	139438	48.031	ug/l	99
95) Naphthalene	14.45	128	384147	46.709	ug/l	100
96) 1,2,3-Trichlorobenzene	14.60	180	194170	45.005	ug/l	99

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

