

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF031219\
 Data File : VF061907.D
 Acq On : 12 Mar 2019 16:11
 Operator : VA/AP
 Sample : VF0312SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 4:41:21 PM

Quant Time: Mar 13 02:26:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	287528	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	431338	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	357989	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	201462	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	120387	57.49	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	114.98%	
35) Dibromofluoromethane	4.10	113	171455	56.96	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.92%	
50) Toluene-d8	7.54	98	474028	52.98	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.96%	
62) 4-Bromofluorobenzene	11.40	95	184606	52.67	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.34%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	82370	23.334	ug/l	95
3) Chloromethane	1.09	50	77026	22.515	ug/l #	88
4) Vinyl Chloride	1.13	62	80781	24.874	ug/l	98
5) Bromomethane	1.31	94	52943	23.921	ug/l	90
6) Chloroethane	1.39	64	37306	24.166	ug/l #	87
7) Trichlorofluoromethane	1.47	101	100474	25.331	ug/l	99
8) Diethyl Ether	1.62	74	19945	22.113	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.84	101	70250	26.081	ug/l	96
10) Methyl Iodide	1.91	142	120552m	23.519	ug/l	
11) Tert butyl alcohol	2.58	59	13251	111.495	ug/l	96
12) 1,1-Dichloroethene	1.79	96	58775	23.901	ug/l	87
13) Acrolein	2.00	56	13070	86.789	ug/l	100
14) Allyl chloride	2.09	41	80435	29.691	ug/l	93
15) Acrylonitrile	2.94	53	43202	114.157	ug/l	97
16) Acetone	2.23	43	56803	129.506	ug/l	92
17) Carbon Disulfide	1.80	76	183298m	23.946	ug/l	
18) Methyl Acetate	2.34	43	25154m	29.656	ug/l	
19) Methyl tert-butyl Ether	2.42	73	107263	25.785	ug/l	98
20) Methylene Chloride	2.18	84	58661m	21.026	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	61504	26.575	ug/l	97
22) Diisopropyl ether	2.80	45	176712	25.076	ug/l	99
23) Vinyl Acetate	3.18	43	370042	117.544	ug/l	98
24) 1,1-Dichloroethane	2.86	63	105086	24.949	ug/l	98
25) 2-Butanone	4.33	43	99322	111.325	ug/l	100
26) 2,2-Dichloropropane	3.58	77	46525	24.743	ug/l	97
27) cis-1,2-Dichloroethene	3.47	96	74934	23.370	ug/l	98
28) Bromochloromethane	3.70	49	41158	22.416	ug/l	99
29) Tetrahydrofuran	4.06	42	43217	112.319	ug/l	97
30) Chloroform	3.85	83	116987	24.316	ug/l	100
31) Cyclohexane	3.67	56	103323m	23.420	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	71630	24.155	ug/l	100
36) 1,1-Dichloropropene	4.27	75	92027	22.586	ug/l	96
37) Ethyl Acetate	4.10	43	36811	21.525	ug/l	98
38) Carbon Tetrachloride	3.98	117	68842	23.868	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	108015	22.444	ug/l	98
40) Benzene	4.62	78	237750	22.323	ug/l	99
41) Methacrylonitrile	4.73	41	20418	21.791	ug/l	94
42) 1,2-Dichloroethane	4.93	62	61083	23.014	ug/l	96
43) Isopropyl Acetate	6.95	43	42212	20.024	ug/l	98
44) Trichloroethene	5.49	130	74944	22.643	ug/l	99
45) 1,2-Dichloropropane	6.22	63	56337	22.245	ug/l	93
46) Dibromomethane	6.07	93	35273	22.130	ug/l	97
47) Bromodichloromethane	6.38	83	82081	23.310	ug/l	97
48) Methyl methacrylate	6.70	41	26542	19.894	ug/l	96
49) 1,4-Dioxane	6.69	88	5431	445.302	ug/l #	86
51) 4-Methyl-2-Pentanone	8.25	43	166701	114.415	ug/l	100
52) Toluene	7.61	92	141440	22.449	ug/l	99
53) t-1,3-Dichloropropene	8.26	75	63170	21.733	ug/l	92
54) cis-1,3-Dichloropropene	7.28	75	85529	21.333	ug/l	99
55) 1,1,2-Trichloroethane	8.48	97	39230	21.611	ug/l	94
56) Ethyl methacrylate	8.61	69	42075	20.566	ug/l	99
57) 1,3-Dichloropropane	8.83	76	63100	21.255	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.28	63	35760	110.496	ug/l	100
59) 2-Hexanone	9.48	43	121687	115.772	ug/l	98
60) Dibromochloromethane	8.70	129	55906	21.608	ug/l	96
61) 1,2-Dibromoethane	8.97	107	43849	21.966	ug/l	97
64) Tetrachloroethene	8.14	164	66453	24.158	ug/l	97
65) Chlorobenzene	9.78	112	154123	22.409	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	62722	23.538	ug/l	96
67) Ethyl Benzene	9.89	91	270656	23.743	ug/l	97
68) m/p-Xylenes	10.11	106	206690	47.330	ug/l	93
69) o-Xylene	10.70	106	110909	23.585	ug/l	93
70) Styrene	10.77	104	154886	23.404	ug/l	97
71) Bromoform	10.76	173	32028	22.741	ug/l	97
73) Isopropylbenzene	11.11	105	332054	23.941	ug/l	97
74) N-amyl acetate	11.36	43	73053	22.879	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.68	83	50327	21.832	ug/l	89
76) 1,2,3-Trichloropropane	11.78	75	36678	23.313	ug/l	97
77) Bromobenzene	11.48	156	71619	21.456	ug/l	92
78) n-propylbenzene	11.58	91	352725	22.520	ug/l	100
79) 2-Chlorotoluene	11.71	91	196936	21.993	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	254494	22.854	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.86	75	17304m	24.053	ug/l	
82) 4-Chlorotoluene	11.89	91	211543	23.096	ug/l	99
83) tert-Butylbenzene	12.12	119	286258	24.209	ug/l	90
84) 1,2,4-Trimethylbenzene	12.19	105	272507	24.963	ug/l	96
85) sec-Butylbenzene	12.29	105	360620	23.436	ug/l	98
86) p-Isopropyltoluene	12.45	119	321555	24.585	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	147961	23.345	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	141253	23.103	ug/l	97
89) n-Butylbenzene	12.84	91	303351	24.268	ug/l	94
90) Hexachloroethane	12.90	117	71615	22.748	ug/l	89
91) 1,2-Dichlorobenzene	12.93	146	139945	23.305	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8683	23.825	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	98767	23.461	ug/l	92
94) Hexachlorobutadiene	14.18	225	60797	20.861	ug/l	95
95) Naphthalene	14.44	128	165610	22.087	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	89370	22.992	ug/l	94

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

