

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032019\
 Data File : VF062034.D
 Acq On : 20 Mar 2019 12:20
 Operator : VA/AP
 Sample : VF0320SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0320SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 4:51:30 PM

Quant Time: Mar 22 05:42:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 03:22:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	241607	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	357044	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	292619	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	172072	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	97766	56.21	ug/l	-0.02
Spiked Amount 50.000			Recovery =	112.42%		
35) Dibromofluoromethane	4.09	113	135140	56.36	ug/l	-0.02
Spiked Amount 50.000			Recovery =	112.72%		
50) Toluene-d8	7.53	98	377741	53.89	ug/l	-0.02
Spiked Amount 50.000			Recovery =	107.78%		
62) 4-Bromofluorobenzene	11.39	95	146422	52.59	ug/l	-0.01
Spiked Amount 50.000			Recovery =	105.18%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	58775	22.820	ug/l	95
3) Chloromethane	1.09	50	62390	23.837	ug/l #	89
4) Vinyl Chloride	1.14	62	58841	23.244	ug/l	100
5) Bromomethane	1.32	94	39027	21.946	ug/l	96
6) Chloroethane	1.40	64	28579	21.869	ug/l	94
7) Trichlorofluoromethane	1.48	101	75791	22.599	ug/l	94
8) Diethyl Ether	1.62	74	16249	21.795	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.83	101	53867	22.797	ug/l	94
10) Methyl Iodide	1.91	142	94241m	22.782	ug/l	
11) Tert butyl alcohol	2.56	59	10690	100.449	ug/l #	86
12) 1,1-Dichloroethene	1.79	96	47532	23.309	ug/l	93
13) Acrolein	1.99	56	7635	66.457	ug/l	89
14) Allyl chloride	2.09	41	54638	20.991	ug/l	93
15) Acrylonitrile	2.92	53	36620	113.156	ug/l	92
16) Acetone	2.23	43	54987	140.797	ug/l	100
17) Carbon Disulfide	1.82	76	131192m	22.256	ug/l	
18) Methyl Acetate	2.33	43	19886	22.470	ug/l	95
19) Methyl tert-butyl Ether	2.42	73	81114	21.952	ug/l	93
20) Methylene Chloride	2.24	84	53432m	26.222	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	50688	23.820	ug/l	96
22) Diisopropyl ether	2.79	45	140572	22.452	ug/l	99
23) Vinyl Acetate	3.17	43	290257	117.600	ug/l	100
24) 1,1-Dichloroethane	2.86	63	83846	23.031	ug/l	97
25) 2-Butanone	4.31	43	85826	110.965	ug/l	96
26) 2,2-Dichloropropane	3.58	77	36815	21.439	ug/l	93
27) cis-1,2-Dichloroethene	3.45	96	63714	23.755	ug/l	90
28) Bromochloromethane	3.69	49	32645	21.611	ug/l	97
29) Tetrahydrofuran	4.06	42	32546	96.756	ug/l	96
30) Chloroform	3.84	83	92736	22.482	ug/l	97
31) Cyclohexane	3.66	56	77241m	21.477	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	52283	19.086	ug/l	96
36) 1,1-Dichloropropene	4.26	75	76486	23.722	ug/l	97
37) Ethyl Acetate	4.09	43	30866	21.320	ug/l #	94
38) Carbon Tetrachloride	3.97	117	53185	22.570	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	84086	22.214	ug/l	98
40) Benzene	4.61	78	203498	23.819	ug/l	100
41) Methacrylonitrile	4.73	41	16155	20.886	ug/l #	85
42) 1,2-Dichloroethane	4.93	62	49328	23.193	ug/l	98
43) Isopropyl Acetate	6.94	43	36536	21.330	ug/l #	96
44) Trichloroethene	5.48	130	64783	24.753	ug/l	98
45) 1,2-Dichloropropane	6.22	63	45730	22.617	ug/l	95
46) Dibromomethane	6.06	93	28155	23.408	ug/l	95
47) Bromodichloromethane	6.37	83	65639	23.148	ug/l	95
48) Methyl methacrylate	6.70	41	23209	20.965	ug/l #	81
49) 1,4-Dioxane	6.69	88	4854	492.937	ug/l #	65
51) 4-Methyl-2-Pentanone	8.24	43	139088	114.349	ug/l	95
52) Toluene	7.60	92	118330	22.668	ug/l	100
53) t-1,3-Dichloropropene	8.26	75	52919	22.105	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	72267	23.135	ug/l	97
55) 1,1,2-Trichloroethane	8.47	97	32846	22.545	ug/l	96
56) Ethyl methacrylate	8.59	69	34491	20.826	ug/l	92
57) 1,3-Dichloropropane	8.83	76	53776	22.127	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.27	63	23605	78.688	ug/l	92
59) 2-Hexanone	9.47	43	101398	115.188	ug/l	92
60) Dibromochloromethane	8.69	129	46416	22.949	ug/l	96
61) 1,2-Dibromoethane	8.97	107	35407	22.656	ug/l	99
64) Tetrachloroethene	8.13	164	52571	24.716	ug/l	94
65) Chlorobenzene	9.78	112	125355	23.009	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	53847	25.499	ug/l	97
67) Ethyl Benzene	9.88	91	225543	24.178	ug/l	97
68) m/p-Xylenes	10.11	106	170010	48.457	ug/l	97
69) o-Xylene	10.69	106	83880	22.343	ug/l	88
70) Styrene	10.77	104	127788	24.570	ug/l	97
71) Bromoform	10.75	173	25528	23.899	ug/l #	92
73) Isopropylbenzene	11.11	105	278698	23.444	ug/l	98
74) N-amyl acetate	11.36	43	62221	22.842	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.68	83	42418	21.617	ug/l	87
76) 1,2,3-Trichloropropane	11.78	75	30395	22.152	ug/l	93
77) Bromobenzene	11.48	156	58870	21.384	ug/l	88
78) n-propylbenzene	11.57	91	304619	22.285	ug/l	93
79) 2-Chlorotoluene	11.70	91	173885	22.537	ug/l	96
80) 1,3,5-Trimethylbenzene	11.81	105	220484	22.960	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	11398m	18.778	ug/l	
82) 4-Chlorotoluene	11.88	91	167413	21.456	ug/l	94
83) tert-Butylbenzene	12.11	119	230320	22.934	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	213101	22.155	ug/l	100
85) sec-Butylbenzene	12.29	105	309175	22.786	ug/l	99
86) p-Isopropyltoluene	12.44	119	269040	23.762	ug/l	96
87) 1,3-Dichlorobenzene	12.46	146	126325	23.347	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	121345	23.300	ug/l	96
89) n-Butylbenzene	12.82	91	259385	24.381	ug/l	94
90) Hexachloroethane	12.90	117	61728	23.890	ug/l	92
91) 1,2-Dichlorobenzene	12.92	146	116788	23.305	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.62	75	6895	21.897	ug/l	63

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	80144	22.966	ug/l	99
94) Hexachlorobutadiene	14.18	225	53876	23.255	ug/l	95
95) Naphthalene	14.44	128	130561	20.802	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	76205	23.736	ug/l	96

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

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