

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122118\
 Data File : VF061120.D
 Acq On : 21 Dec 2018 12:24
 Operator : VA/AP
 Sample : VF1221SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 10:51:09 AM

Quant Time: Dec 24 22:18:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	226998	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.63	114	381097	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.80	117	336823	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	161252	50.00	ug/l	0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.88	65	131149	44.92	ug/l	0.04
Spiked Amount 50.000			Recovery	=	89.84%	
35) Dibromofluoromethane	4.14	113	148500	48.64	ug/l	0.03
Spiked Amount 50.000			Recovery	=	97.28%	
50) Toluene-d8	7.58	98	432754	50.02	ug/l	0.03
Spiked Amount 50.000			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.44	95	188887	47.36	ug/l	0.03
Spiked Amount 50.000			Recovery	=	94.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	84387	16.723	ug/l	97
3) Chloromethane	1.13	50	52989	18.332	ug/l #	87
4) Vinyl Chloride	1.14	62	50771	18.935	ug/l #	86
5) Bromomethane	1.36	94	32813	17.643	ug/l	98
6) Chloroethane	1.42	64	23342	18.893	ug/l	98
7) Trichlorofluoromethane	1.49	101	87288m	17.049	ug/l	
8) Diethyl Ether	1.64	74	13677	19.508	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.87	101	56846	21.415	ug/l	92
10) Methyl Iodide	1.93	142	76347m	18.246	ug/l	
11) Tert butyl alcohol	2.61	59	13164	111.732	ug/l #	89
12) 1,1-Dichloroethene	1.81	96	35325	17.654	ug/l	88
13) Acrolein	2.02	56	11690m	137.313	ug/l	
14) Allyl chloride	2.11	41	28643	13.755	ug/l	86
15) Acrylonitrile	2.97	53	27182	99.773	ug/l	96
16) Acetone	2.26	43	54984	94.206	ug/l	97
17) Carbon Disulfide	1.85	76	109176m	18.054	ug/l	
18) Methyl Acetate	2.37	43	23902m	19.794	ug/l	
19) Methyl tert-butyl Ether	2.45	73	84037	18.921	ug/l	100
20) Methylene Chloride	2.29	84	43581m	20.738	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	40466m	18.908	ug/l	
22) Diisopropyl ether	2.83	45	139589	20.124	ug/l	98
23) Vinyl Acetate	3.21	43	359999	112.503	ug/l	99
24) 1,1-Dichloroethane	2.90	63	73869	17.974	ug/l	100
25) 2-Butanone	4.37	43	101870	107.619	ug/l	93
26) 2,2-Dichloropropane	3.62	77	44704	18.954	ug/l	96
27) cis-1,2-Dichloroethene	3.50	96	63529	19.390	ug/l	97
28) Bromochloromethane	3.75	49	39899	19.134	ug/l	99
29) Tetrahydrofuran	4.12	42	42335	109.884	ug/l	99
30) Chloroform	3.89	83	116493	18.904	ug/l	99
31) Cyclohexane	3.72	56	88778m	20.818	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	87759m	23.760	ug/l	
36) 1,1-Dichloropropene	4.31	75	90104	19.587	ug/l	99
37) Ethyl Acetate	4.15	43	39562	19.936	ug/l #	71
38) Carbon Tetrachloride	4.01	117	64066	18.288	ug/l #	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	79363	19.231	ug/l	98
40) Benzene	4.66	78	217932	22.030	ug/l	95
41) Methacrylonitrile	4.78	41	22407	23.064	ug/l	96
42) 1,2-Dichloroethane	4.97	62	70489	18.757	ug/l	100
43) Isopropyl Acetate	6.99	43	50608	22.784	ug/l #	93
44) Trichloroethene	5.53	130	67599	21.674	ug/l	99
45) 1,2-Dichloropropane	6.26	63	57247	21.270	ug/l	96
46) Dibromomethane	6.11	93	32365	18.541	ug/l	90
47) Bromodichloromethane	6.42	83	89606	19.756	ug/l	98
48) Methyl methacrylate	6.74	41	31482	20.303	ug/l	99
49) 1,4-Dioxane	6.73	88	4681	416.045	ug/l #	90
51) 4-Methyl-2-Pentanone	8.29	43	176278	115.719	ug/l	100
52) Toluene	7.65	92	135479	20.689	ug/l	94
53) t-1,3-Dichloropropene	8.30	75	73583	20.111	ug/l	99
54) cis-1,3-Dichloropropene	7.34	75	96221	20.953	ug/l	99
55) 1,1,2-Trichloroethane	8.52	97	41345	21.061	ug/l	96
56) Ethyl methacrylate	8.65	69	46821	22.041	ug/l	98
57) 1,3-Dichloropropane	8.88	76	72515	20.424	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.33	63	49472	121.263	ug/l #	90
59) 2-Hexanone	9.53	43	122370	111.081	ug/l	99
60) Dibromochloromethane	8.75	129	56875	20.211	ug/l	89
61) 1,2-Dibromoethane	9.02	107	42710	20.371	ug/l	90
64) Tetrachloroethene	8.18	164	55691	21.494	ug/l	97
65) Chlorobenzene	9.83	112	147356	21.177	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.96	131	58173	20.458	ug/l	97
67) Ethyl Benzene	9.93	91	272407	21.489	ug/l	100
68) m/p-Xylenes	10.16	106	195727	43.873	ug/l	99
69) o-Xylene	10.74	106	105889	21.401	ug/l	99
70) Styrene	10.82	104	148975	21.972	ug/l	98
71) Bromoform	10.80	173	28451	21.626	ug/l #	99
73) Isopropylbenzene	11.15	105	303652	21.852	ug/l	100
74) N-amyl acetate	11.40	43	77916	25.255	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.72	83	55607	24.111	ug/l	94
76) 1,2,3-Trichloropropane	11.81	75	37775	22.009	ug/l	96
77) Bromobenzene	11.52	156	61504	20.561	ug/l	99
78) n-propylbenzene	11.62	91	367422	20.393	ug/l	98
79) 2-Chlorotoluene	11.75	91	210882	22.122	ug/l	98
80) 1,3,5-Trimethylbenzene	11.84	105	242083	21.157	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.89	75	18188m	24.661	ug/l	
82) 4-Chlorotoluene	11.92	91	207236	21.015	ug/l	98
83) tert-Butylbenzene	12.15	119	254496	21.614	ug/l	97
84) 1,2,4-Trimethylbenzene	12.23	105	244844	21.458	ug/l	100
85) sec-Butylbenzene	12.33	105	349100	22.720	ug/l	99
86) p-Isopropyltoluene	12.49	119	280405	21.985	ug/l	98
87) 1,3-Dichlorobenzene	12.50	146	125912	22.874	ug/l	97
88) 1,4-Dichlorobenzene	12.58	146	118679	21.606	ug/l	96
89) n-Butylbenzene	12.87	91	293737	20.103	ug/l	97
90) Hexachloroethane	12.94	117	65935	20.924	ug/l	92
91) 1,2-Dichlorobenzene	12.97	146	114656	21.440	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.67	75	8730	20.628	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	81985	21.617	ug/l	97
94) Hexachlorobutadiene	14.21	225	48822	20.212	ug/l	99
95) Naphthalene	14.48	128	143012	20.651	ug/l	97
96) 1,2,3-Trichlorobenzene	14.63	180	74209	21.166	ug/l	98

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

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