

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010219\
 Data File : VF061248.D
 Acq On : 2 Jan 2019 12:16
 Operator : VA/AP
 Sample : VF0102SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0102SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/3/2019 3:08:17 PM

Quant Time: Jan 02 15:06:19 2019
 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	4.85	168	204769	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	334357	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	305354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	152440	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	118563	45.02	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	90.04%	
35) Dibromofluoromethane	4.10	113	145130	54.19	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	108.38%	
50) Toluene-d8	7.54	98	372398	49.06	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	11.40	95	161813	46.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	79792	17.529	ug/l	97
3) Chloromethane	1.10	50	54511	20.906	ug/l	96
4) Vinyl Chloride	1.14	62	50391	20.833	ug/l #	83
5) Bromomethane	1.30	94	31353	18.688	ug/l	92
6) Chloroethane	1.38	64	24009	21.542	ug/l #	82
7) Trichlorofluoromethane	1.47	101	94275	20.413	ug/l	100
8) Diethyl Ether	1.62	74	14016	22.162	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.83	101	46336	19.350	ug/l	90
10) Methyl Iodide	1.91	142	74917m	19.848	ug/l	
11) Tert butyl alcohol	2.57	59	10485	98.655	ug/l	96
12) 1,1-Dichloroethene	1.79	96	39315	21.781	ug/l	93
13) Acrolein	1.99	56	8297	108.038	ug/l #	73
14) Allyl chloride	2.08	41	52713	28.062	ug/l	93
15) Acrylonitrile	2.93	53	26720	108.724	ug/l	94
16) Acetone	2.23	43	52558	99.825	ug/l #	91
17) Carbon Disulfide	1.81	76	108285m	19.851	ug/l	
18) Methyl Acetate	2.34	43	18814	17.272	ug/l	98
19) Methyl tert-butyl Ether	2.42	73	80613	20.120	ug/l	93
20) Methylene Chloride	2.17	84	41791m	22.356	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	37517	19.433	ug/l	85
22) Diisopropyl ether	2.78	45	136815	21.866	ug/l	97
23) Vinyl Acetate	3.18	43	302466	104.785	ug/l	99
24) 1,1-Dichloroethane	2.86	63	82397	22.226	ug/l	99
25) 2-Butanone	4.31	43	90548	106.042	ug/l	94
26) 2,2-Dichloropropane	3.57	77	50131	23.563	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	60060	20.321	ug/l	92
28) Bromochloromethane	3.70	49	37869	20.132	ug/l	93
29) Tetrahydrofuran	4.06	42	37374	107.539	ug/l	96
30) Chloroform	3.85	83	111053	19.978	ug/l	95
31) Cyclohexane	3.67	56	83052m	21.589	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	73148	21.954	ug/l	97
36) 1,1-Dichloropropene	4.26	75	82830	20.523	ug/l	99
37) Ethyl Acetate	4.10	43	32146	18.361	ug/l #	70
38) Carbon Tetrachloride	3.98	117	69079	22.476	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	86778	23.967	ug/l	97
40) Benzene	4.62	78	187854	21.644	ug/l	96
41) Methacrylonitrile	4.74	41	20338	23.861	ug/l #	91
42) 1,2-Dichloroethane	4.92	62	61334	18.602	ug/l	98
43) Isopropyl Acetate	6.95	43	37955	19.477	ug/l	95
44) Trichloroethene	5.49	130	63295	23.131	ug/l	98
45) 1,2-Dichloropropane	6.23	63	49935	21.147	ug/l	99
46) Dibromomethane	6.07	93	29325	19.147	ug/l	96
47) Bromodichloromethane	6.37	83	76063	19.115	ug/l	96
48) Methyl methacrylate	6.71	41	25549	18.780	ug/l	98
49) 1,4-Dioxane	6.71	88	3841	389.109	ug/l #	75
51) 4-Methyl-2-Pentanone	8.25	43	142169	106.375	ug/l	100
52) Toluene	7.61	92	122391	21.303	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	63334	19.729	ug/l	97
54) cis-1,3-Dichloropropene	7.28	75	84146	20.885	ug/l	93
55) 1,1,2-Trichloroethane	8.48	97	33864	19.662	ug/l	96
56) Ethyl methacrylate	8.61	69	34914	18.734	ug/l	91
57) 1,3-Dichloropropane	8.84	76	60463	19.410	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.28	63	20306	56.731	ug/l	96
59) 2-Hexanone	9.48	43	100314	103.789	ug/l	100
60) Dibromochloromethane	8.70	129	49781	20.163	ug/l	96
61) 1,2-Dibromoethane	8.98	107	36317	19.744	ug/l	93
64) Tetrachloroethene	8.14	164	51360	21.865	ug/l	90
65) Chlorobenzene	9.79	112	132675	21.032	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	55498	21.528	ug/l	96
67) Ethyl Benzene	9.89	91	248534	21.626	ug/l	99
68) m/p-Xylenes	10.12	106	181829	44.958	ug/l	100
69) o-Xylene	10.70	106	89376	19.925	ug/l	97
70) Styrene	10.77	104	131600	21.271	ug/l	97
71) Bromoform	10.76	173	24467	20.515	ug/l #	98
73) Isopropylbenzene	11.12	105	279119	21.247	ug/l	100
74) N-amyl acetate	11.37	43	62457	21.415	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	47085	21.596	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	34023	20.969	ug/l	85
77) Bromobenzene	11.48	156	57924	20.483	ug/l	92
78) n-propylbenzene	11.58	91	336833	19.723	ug/l	99
79) 2-Chlorotoluene	11.71	91	193803	21.506	ug/l	97
80) 1,3,5-Trimethylbenzene	11.82	105	238672	22.065	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.86	75	13961m	20.024	ug/l	
82) 4-Chlorotoluene	11.89	91	187358	20.098	ug/l	98
83) tert-Butylbenzene	12.12	119	241308	21.679	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	220921	20.481	ug/l	99
85) sec-Butylbenzene	12.29	105	320477	22.062	ug/l	94
86) p-Isopropyltoluene	12.45	119	265685	22.035	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	112412	21.267	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	109188	21.027	ug/l	97
89) n-Butylbenzene	12.84	91	281368	20.390	ug/l	95
90) Hexachloroethane	12.90	117	65058	21.840	ug/l	96
91) 1,2-Dichlorobenzene	12.93	146	109268	21.614	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7986	19.961	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	78630	21.931	ug/l	95
94) Hexachlorobutadiene	14.19	225	51287	22.460	ug/l	99
95) Naphthalene	14.44	128	123776	18.906	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	72153	21.769	ug/l	99

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

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