

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF112018\
 Data File : VF060817.D
 Acq On : 20 Nov 2018 22:02
 Operator : VA/AP
 Sample : J5977-09MS
 Misc : 3.95g/5mL/MSVOA-F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MMTW-03(8-10)MS

Manual Integrations
 APPROVED

apatel
 11/21/2018 2:41:11 PM

Quant Time: Nov 21 03:45:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	157766	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	259193	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.78	117	215113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	89799	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	95684	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
35) Dibromofluoromethane	4.13	113	115044	59.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.10%	
50) Toluene-d8	7.56	98	283467	57.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.46%	
62) 4-Bromofluorobenzene	11.41	95	106072	45.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	141565	50.14	ug/l	100
3) Chloromethane	1.10	50	99289	56.70	ug/l	97
4) Vinyl Chloride	1.14	62	86798	55.41	ug/l	# 87
5) Bromomethane	1.33	94	59203	59.50	ug/l	96
6) Chloroethane	1.38	64	39619	64.65	ug/l	90
7) Trichlorofluoromethane	1.49	101	182312	52.63	ug/l	94
8) Diethyl Ether	1.63	74	27103	61.07	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.82	101	88578	54.26	ug/l	97
10) Methyl Iodide	1.90	142	149468	57.07	ug/l	91
11) Tert butyl alcohol	2.57	59	26262	320.67	ug/l	100
12) 1,1-Dichloroethene	1.78	96	70198	54.54	ug/l	93
13) Acrolein	2.00	56	11749	156.90	ug/l	97
14) Allyl chloride	2.10	41	128336	56.92	ug/l	88
15) Acrylonitrile	2.94	53	55920	320.44	ug/l	96
16) Acetone	2.24	43	115138	299.35	ug/l	97
17) Carbon Disulfide	1.84	76	182072	46.80	ug/l	95
18) Methyl Acetate	2.34	43	59268	93.84	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	188045	60.90	ug/l	98
20) Methylene Chloride	2.19	84	77910m	61.61	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	70290	52.27	ug/l	89
22) Diisopropyl ether	2.80	45	295799	67.95	ug/l	99
23) Vinyl Acetate	3.19	43	395421	192.89	ug/l	100
24) 1,1-Dichloroethane	2.88	63	160226	60.79	ug/l	99
25) 2-Butanone	4.33	43	187138	295.80	ug/l	97
26) 2,2-Dichloropropane	3.60	77	98016	47.26	ug/l	95
27) cis-1,2-Dichloroethene	3.48	96	118127	51.64	ug/l	99
28) Bromochloromethane	3.72	49	72496	52.93	ug/l	99
29) Tetrahydrofuran	4.07	42	89150	341.62	ug/l	97
30) Chloroform	3.86	83	230877	54.60	ug/l	94
31) Cyclohexane	3.70	56	146876	45.92	ug/l	98
32) 1,1,1-Trichloroethane	4.10	97	175709	52.77	ug/l	95
36) 1,1-Dichloropropene	4.29	75	149860	49.85	ug/l	98
37) Ethyl Acetate	4.13	43	76622	68.56	ug/l	# 54
38) Carbon Tetrachloride	4.00	117	150675	51.66	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	131838	37.80	ug/l	98
40) Benzene	4.63	78	375479	56.03	ug/l	99
41) Methacrylonitrile	4.75	41	39355	67.57	ug/l #	91
42) 1,2-Dichloroethane	4.95	62	131160	56.64	ug/l	98
43) Isopropyl Acetate	6.96	43	79250	53.48	ug/l #	95
44) Trichloroethene	5.51	130	100057	47.33	ug/l	98
45) 1,2-Dichloropropane	6.24	63	100488	57.63	ug/l	92
46) Dibromomethane	6.09	93	61037	53.03	ug/l	93
47) Bromodichloromethane	6.39	83	159942	54.42	ug/l	98
48) Methyl methacrylate	6.71	41	61936	63.16	ug/l	91
49) 1,4-Dioxane	6.70	88	12032	1311.89	ug/l #	90
51) 4-Methyl-2-Pentanone	8.26	43	343331	320.37	ug/l	99
52) Toluene	7.63	92	219889	48.97	ug/l	92
53) t-1,3-Dichloropropene	8.28	75	111858	47.51	ug/l	99
54) cis-1,3-Dichloropropene	7.31	75	150739	49.29	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	69807	54.41	ug/l	97
56) Ethyl methacrylate	8.63	69	74741	51.29	ug/l	98
57) 1,3-Dichloropropane	8.85	76	122572	55.13	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.63	63	32402	243.43	ug/l	100
59) 2-Hexanone	9.50	43	230798	306.45	ug/l	100
60) Dibromochloromethane	8.73	129	96074	52.54	ug/l	94
61) 1,2-Dibromoethane	8.99	107	70230	52.05	ug/l	99
64) Tetrachloroethene	8.15	164	88693	52.07	ug/l	97
65) Chlorobenzene	9.80	112	232882	53.65	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	115304	60.90	ug/l	99
67) Ethyl Benzene	9.91	91	427374	52.23	ug/l	99
68) m/p-Xylenes	10.14	106	293205	100.27	ug/l	93
69) o-Xylene	10.72	106	176653	53.73	ug/l	97
70) Styrene	10.80	104	218972	49.08	ug/l	99
71) Bromoform	10.78	173	49462	58.10	ug/l #	92
73) Isopropylbenzene	11.13	105	480497	66.48	ug/l	98
74) N-amyl acetate	11.37	43	125679	76.38	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	96211	80.51	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	66530	74.96	ug/l	97
77) Bromobenzene	11.50	156	97517	64.81	ug/l	96
78) n-propylbenzene	11.60	91	498585	59.14	ug/l	97
79) 2-Chlorotoluene	11.72	91	295510	60.31	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	359920	62.72	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	28943m	66.38	ug/l	
82) 4-Chlorotoluene	11.90	91	286767	57.13	ug/l	97
83) tert-Butylbenzene	12.14	119	375253	61.59	ug/l	94
84) 1,2,4-Trimethylbenzene	12.21	105	346044	58.31	ug/l	96
85) sec-Butylbenzene	12.31	105	420010	50.82	ug/l	96
86) p-Isopropyltoluene	12.46	119	355095	51.44	ug/l	96
87) 1,3-Dichlorobenzene	12.47	146	156238	52.18	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	160173	55.66	ug/l	93
89) n-Butylbenzene	12.85	91	304836	43.27	ug/l	95
90) Hexachloroethane	12.92	117	88509	52.42	ug/l	97
91) 1,2-Dichlorobenzene	12.95	146	157654	55.92	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	16749	74.57	ug/l	76

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	77175	38.09	ug/l	96
94) Hexachlorobutadiene	14.19	225	34246	25.86	ug/l	98
95) Naphthalene	14.46	128	223923	60.56	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	69554	37.15	ug/l	96

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

