

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061552.D
 Acq On : 7 Feb 2019 18:39
 Operator : VA/AP
 Sample : K1404-03MS
 Misc : 5.33q/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C12-SS1-7.5-8.0MS

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 12:36:27 PM

Quant Time: Feb 09 04:59:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	157673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	294337	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	258320	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	128700	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	94505	48.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.10%	
35) Dibromofluoromethane	4.12	113	104836	45.14	ug/l	0.01
Spiked Amount 50.000			Recovery	=	90.28%	
50) Toluene-d8	7.55	98	284619	44.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.46%	
62) 4-Bromofluorobenzene	11.41	95	122503	41.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.40%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	139400	44.996	ug/l	91
3) Chloromethane	1.10	50	96621	42.534	ug/l #	87
4) Vinyl Chloride	1.14	62	95218	47.121	ug/l	99
5) Bromomethane	1.33	94	67005	50.850	ug/l	97
6) Chloroethane	1.39	64	44296	49.471	ug/l	99
7) Trichlorofluoromethane	1.48	101	182880	46.554	ug/l	93
8) Diethyl Ether	1.63	74	28153	55.931	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.83	101	86355	45.750	ug/l	97
10) Methyl Iodide	1.91	142	146306m	49.998	ug/l	
11) Tert butyl alcohol	2.57	59	23341	283.267	ug/l	98
12) 1,1-Dichloroethene	1.79	96	68907	49.137	ug/l	95
13) Acrolein	2.00	56	12053	173.138	ug/l	96
14) Allyl chloride	2.10	41	102059	65.667	ug/l	93
15) Acrylonitrile	2.94	53	59447	281.652	ug/l	92
16) Acetone	2.23	43	105362	269.795	ug/l	96
17) Carbon Disulfide	1.82	76	203707	46.587	ug/l	98
18) Methyl Acetate	2.34	43	53873	69.561	ug/l	99
19) Methyl tert-butyl Ether	2.42	73	167201	53.187	ug/l	96
20) Methylene Chloride	2.18	84	76747m	58.181	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	72800	47.184	ug/l	93
22) Diisopropyl ether	2.80	45	267428	53.588	ug/l	98
23) Vinyl Acetate	3.18	43	515850	235.198	ug/l	99
24) 1,1-Dichloroethane	2.87	63	158838	50.712	ug/l	97
25) 2-Butanone	4.33	43	179191	275.921	ug/l	100
26) 2,2-Dichloropropane	3.60	77	91815	47.712	ug/l	100
27) cis-1,2-Dichloroethene	3.48	96	110379	48.464	ug/l	94
28) Bromochloromethane	3.71	49	71928	51.088	ug/l #	99
29) Tetrahydrofuran	4.07	42	77758	278.065	ug/l	96
30) Chloroform	3.85	83	206427	48.835	ug/l	99
31) Cyclohexane	3.69	56	146314m	46.765	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	141681	45.712	ug/l	94
36) 1,1-Dichloropropene	4.28	75	156224	45.777	ug/l	97
37) Ethyl Acetate	4.11	43	70464	51.654	ug/l #	86
38) Carbon Tetrachloride	3.98	117	128862	43.191	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	145800	39.423	ug/l	99
40) Benzene	4.63	78	334264	44.018	ug/l	99
41) Methacrylonitrile	4.74	41	38539	53.093	ug/l	91
42) 1,2-Dichloroethane	4.94	62	135256	49.984	ug/l	96
43) Isopropyl Acetate	6.96	43	87397	51.046	ug/l #	84
44) Trichloroethene	5.51	130	103468	44.416	ug/l	94
45) 1,2-Dichloropropane	6.23	63	91676	45.998	ug/l	99
46) Dibromomethane	6.08	93	67174	50.688	ug/l	97
47) Bromodichloromethane	6.39	83	161294	49.192	ug/l	99
48) Methyl methacrylate	6.71	41	60989	53.048	ug/l	97
49) 1,4-Dioxane	6.70	88	8494	1062.754	ug/l #	81
51) 4-Methyl-2-Pentanone	8.25	43	323868	257.308	ug/l	98
52) Toluene	7.62	92	213989	42.791	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	121416	46.633	ug/l	93
54) cis-1,3-Dichloropropene	7.30	75	167983	51.616	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	73611	51.836	ug/l	98
56) Ethyl methacrylate	8.62	69	82893	50.172	ug/l #	81
57) 1,3-Dichloropropane	8.85	76	132117	49.635	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	55696	313.610	ug/l	97
59) 2-Hexanone	9.48	43	231467	263.719	ug/l	97
60) Dibromochloromethane	8.72	129	103588	49.896	ug/l	99
61) 1,2-Dibromoethane	8.98	107	78908	48.538	ug/l	91
64) Tetrachloroethene	8.15	164	90284	46.476	ug/l	97
65) Chlorobenzene	9.79	112	245637	46.760	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	105828	50.571	ug/l	98
67) Ethyl Benzene	9.90	91	461796	48.115	ug/l	98
68) m/p-Xylenes	10.13	106	309099	89.543	ug/l	97
69) o-Xylene	10.71	106	182633	48.815	ug/l	99
70) Styrene	10.79	104	223333	43.609	ug/l	99
71) Bromoform	10.77	173	54227	57.673	ug/l #	96
73) Isopropylbenzene	11.12	105	504139	48.163	ug/l	100
74) N-amyl acetate	11.37	43	134313	54.264	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	99018	53.100	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	69392	51.789	ug/l	98
77) Bromobenzene	11.50	156	113297	51.251	ug/l	96
78) n-propylbenzene	11.60	91	572158	44.251	ug/l	99
79) 2-Chlorotoluene	11.71	91	345769	47.609	ug/l	100
80) 1,3,5-Trimethylbenzene	11.82	105	394365	46.685	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	28730m	49.325	ug/l	
82) 4-Chlorotoluene	11.90	91	347943	47.476	ug/l	97
83) tert-Butylbenzene	12.13	119	411513	47.067	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	405244	46.573	ug/l	94
85) sec-Butylbenzene	12.31	105	554209	46.676	ug/l	97
86) p-Isopropyltoluene	12.45	119	462120	47.412	ug/l	95
87) 1,3-Dichlorobenzene	12.47	146	203256	45.840	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	199670	47.798	ug/l	99
89) n-Butylbenzene	12.84	91	458733	45.636	ug/l	94
90) Hexachloroethane	12.92	117	111203	48.400	ug/l	91
91) 1,2-Dichlorobenzene	12.94	146	192139	46.462	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	18735	56.645	ug/l	72

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	136263	47.037	ug/l	99
94) Hexachlorobutadiene	14.19	225	75154	41.808	ug/l	97
95) Naphthalene	14.46	128	291800	53.017	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	130716	48.744	ug/l	99

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

