

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030719\
 Data File : VW009043.D
 Acq On : 07 Mar 2019 16:48
 Operator : SY/VA
 Sample : K1560-03MDL2.5PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 12:06:20 PM

Quant Time: Mar 08 06:17:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	277923	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	399532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	390706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	211456	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	149231	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
35) Dibromofluoromethane	7.88	113	129216	53.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.44%	
50) Toluene-d8	10.32	98	552872	55.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.92%	
62) 4-Bromofluorobenzene	12.62	95	206007	52.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	8852	3.160	ug/l	99
3) Chloromethane	2.21	50	9530	2.678	ug/l	91
4) Vinyl Chloride	2.36	62	9657	2.674	ug/l	91
5) Bromomethane	2.76	94	9086	2.981	ug/l	98
6) Chloroethane	2.92	64	7653	2.977	ug/l	99
7) Trichlorofluoromethane	3.26	101	11738	2.525	ug/l	95
8) Diethyl Ether	3.68	74	3331	2.343	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	4.06	101	7664	2.647	ug/l	93
10) Methyl Iodide	4.28	142	5225	4.745	ug/l #	98
11) Tert butyl alcohol	5.18	59	4724m	22.047	ug/l	
12) 1,1-Dichloroethene	4.03	96	5879	2.354	ug/l	98
13) Acrolein	3.91	56	2848	12.079	ug/l #	72
14) Allyl chloride	4.68	41	10674	2.423	ug/l	95
15) Acrylonitrile	5.37	53	8371	13.492	ug/l #	16
16) Acetone	4.14	43	9182	14.552	ug/l	99
17) Carbon Disulfide	4.37	76	20075	2.389	ug/l #	93
18) Methyl Acetate	4.69	43	4175	2.877	ug/l #	85
19) Methyl tert-butyl Ether	5.43	73	15245	2.307	ug/l	96
20) Methylene Chloride	4.92	84	14902	Below Cal		96
21) trans-1,2-Dichloroethene	5.42	96	7159	2.482	ug/l	96
22) Diisopropyl ether	6.31	45	19457	2.222	ug/l #	85
23) Vinyl Acetate	6.26	43	57399	10.534	ug/l	97
24) 1,1-Dichloroethane	6.22	63	12708	2.502	ug/l	98
25) 2-Butanone	7.18	43	10017	11.487	ug/l	94
26) 2,2-Dichloropropane	7.17	77	12467	2.701	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	7223	2.332	ug/l	92
28) Bromochloromethane	7.51	49	5296	2.507	ug/l	100
29) Tetrahydrofuran	7.54	42	6340	11.537	ug/l	96
30) Chloroform	7.67	83	12212	2.336	ug/l	91
31) Cyclohexane	7.95	56	18777	3.601	ug/l #	64
32) 1,1,1-Trichloroethane	7.87	97	12174	2.523	ug/l	94
36) 1,1-Dichloropropene	8.08	75	11039	2.642	ug/l	98
37) Ethyl Acetate	7.26	43	4383	2.234	ug/l #	82
38) Carbon Tetrachloride	8.07	117	10696	2.479	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	12733	2.559	ug/l	94
40) Benzene	8.32	78	26671	2.392	ug/l	98
41) Methacrylonitrile	7.48	41	1638	1.503	ug/l #	55
42) 1,2-Dichloroethane	8.40	62	9121	2.533	ug/l	96
43) Isopropyl Acetate	8.42	43	9119	2.495	ug/l	97
44) Trichloroethene	9.09	130	7287	2.331	ug/l	96
45) 1,2-Dichloropropane	9.37	63	6795	2.433	ug/l #	84
46) Dibromomethane	9.45	93	3617	2.371	ug/l	99
47) Bromodichloromethane	9.64	83	8895	2.304	ug/l #	93
48) Methyl methacrylate	9.43	41	3464	2.036	ug/l #	86
49) 1,4-Dioxane	9.46	88	1169	53.518	ug/l	95
51) 4-Methyl-2-Pentanone	10.21	43	20987	11.312	ug/l	98
52) Toluene	10.39	92	18439	2.438	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	8522	2.231	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	10145	2.312	ug/l	96
55) 1,1,2-Trichloroethane	10.79	97	5575	2.697	ug/l	97
56) Ethyl methacrylate	10.65	69	5716	2.228	ug/l	98
57) 1,3-Dichloropropane	10.94	76	8861	2.419	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.92	63	14523	10.918	ug/l	96
59) 2-Hexanone	10.97	43	14587	11.182	ug/l	99
60) Dibromochloromethane	11.13	129	5458	2.133	ug/l	96
61) 1,2-Dibromoethane	11.24	107	4795	2.366	ug/l	99
64) Tetrachloroethene	10.87	164	7584	2.692	ug/l	92
65) Chlorobenzene	11.66	112	20998	2.469	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.73	131	6535	2.301	ug/l	94
67) Ethyl Benzene	11.73	91	35498	2.311	ug/l	96
68) m/p-Xylenes	11.84	106	28347	4.675	ug/l	99
69) o-Xylene	12.16	106	12325	2.184	ug/l	99
70) Styrene	12.18	104	19981	2.189	ug/l	99
71) Bromoform	12.35	173	3399	2.229	ug/l #	93
73) Isopropylbenzene	12.46	105	34397	2.272	ug/l	99
74) N-amyl acetate	12.27	43	6854	1.912	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.72	83	5776	2.418	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	5303m	3.174	ug/l	
77) Bromobenzene	12.75	156	8183	2.365	ug/l	99
78) n-propylbenzene	12.80	91	44249	2.372	ug/l	99
79) 2-Chlorotoluene	12.90	91	25576	2.441	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	29834	2.286	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.51	75	1675m	2.243	ug/l	
82) 4-Chlorotoluene	12.99	91	26752	2.395	ug/l	97
83) tert-Butylbenzene	13.21	119	25920	2.355	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	28869	2.186	ug/l	99
85) sec-Butylbenzene	13.38	105	37796	2.317	ug/l	97
86) p-Isopropyltoluene	13.50	119	32633	2.237	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	18402	2.531	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	19589	2.726	ug/l	90
89) n-Butylbenzene	13.83	91	30304	2.185	ug/l	98
90) Hexachloroethane	14.10	117	6164	2.449	ug/l	97
91) 1,2-Dichlorobenzene	13.87	146	16302	2.541	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1229	2.889	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	10599	2.446	ug/l	99
94) Hexachlorobutadiene	15.24	225	7559	2.785	ug/l	96
95) Naphthalene	15.38	128	14519	2.047	ug/l	95
96) 1,2,3-Trichlorobenzene	15.57	180	9370	2.459	ug/l	97

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

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