

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071823\
 Data File : VD076770.D
 Acq On : 18 Jul 2023 11:32
 Operator : KP/SY
 Sample : 03572-03
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023

Quant Time: Jul 19 08:15:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 19 08:14:54 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/19/2023
 Supervised By : Mahesh Dadoda 07/19/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.875	168	173090	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	312127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	280375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	124462	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	83303	48.319	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.640%		
35) Dibromofluoromethane	7.804	113	96882	49.394	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.780%		
50) Toluene-d8	10.269	98	313765	44.716	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	89.440%		
62) 4-Bromofluorobenzene	12.575	95	101138	44.556	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	89.120%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.928	85	3752	2.772	ug/l	92
3) Chloromethane	2.146	50	5358	2.295	ug/l	95
4) Vinyl Chloride	2.275	62	7137	2.293	ug/l	# 82
5) Bromomethane	2.687	94	7108	2.776	ug/l	90
6) Chloroethane	2.834	64	4803	2.044	ug/l	99
7) Trichlorofluoromethane	3.175	101	6510	2.351	ug/l	90
8) Diethyl Ether	3.593	74	2402	2.519	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.958	101	4530	2.488	ug/l	94
10) Methyl Iodide	4.146	142	4924	2.399	ug/l	# 64
11) Tert butyl alcohol	5.063	59	2115m	16.440	ug/l	
12) 1,1-Dichloroethene	3.934	96	4287	2.506	ug/l	# 86
13) Acrolein	3.799	56	1492	17.018	ug/l	83
14) Allyl chloride	4.563	41	5210m	2.319	ug/l	
15) Acrylonitrile	5.263	53	5563	11.878	ug/l	# 74
16) Acetone	4.034	43	4780	11.609	ug/l	# 85
17) Carbon Disulfide	4.269	76	8830	2.210	ug/l	96
18) Methyl Acetate	4.563	43	3858	2.494	ug/l	# 81
19) Methyl tert-butyl Ether	5.316	73	9215	2.009	ug/l	98
20) Methylene Chloride	4.805	84	15397	4.521	ug/l	96
21) trans-1,2-Dichloroethene	5.310	96	4672	2.350	ug/l	92
22) Diisopropyl ether	6.222	45	10372	1.949	ug/l	# 86
23) Vinyl Acetate	6.152	43	25728m	9.773	ug/l	
24) 1,1-Dichloroethane	6.110	63	8632	2.406	ug/l	# 87
25) 2-Butanone	7.087	43	7255	13.166	ug/l	97
26) 2,2-Dichloropropane	7.063	77	10112	3.270	ug/l	88
27) cis-1,2-Dichloroethene	7.081	96	5726	2.336	ug/l	84
28) Bromochloromethane	7.428	49	2331	2.599	ug/l	# 41
29) Tetrahydrofuran	7.451	42	3811	11.705	ug/l	# 75
30) Chloroform	7.593	83	9498	2.417	ug/l	84
31) Cyclohexane	7.875	56	9389	3.700	ug/l	# 66
32) 1,1,1-Trichloroethane	7.793	97	8015	2.528	ug/l	94
36) 1,1-Dichloropropene	8.004	75	6390	2.493	ug/l	95
37) Ethyl Acetate	7.181	43	3043m	2.655	ug/l	
38) Carbon Tetrachloride	7.998	117	5324	2.169	ug/l	# 71
39) Methylcyclohexane	9.263	83	6572	2.221	ug/l	# 91
40) Benzene	8.251	78	18411	2.277	ug/l	# 88

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.416	41	1920m	2.743	ug/l	
42) 1,2-Dichloroethane	8.334	62	4889	2.327	ug/l	100
43) Isopropyl Acetate	8.363	43	4725	2.112	ug/l #	73
44) Trichloroethene	9.028	130	4940	2.242	ug/l	77
45) 1,2-Dichloropropane	9.304	63	4963	2.377	ug/l	94
46) Dibromomethane	9.393	93	3134	2.565	ug/l #	81
47) Bromodichloromethane	9.587	83	7213	2.352	ug/l #	82
48) Methyl methacrylate	9.381	41	2421	2.378	ug/l #	67
49) 1,4-Dioxane	9.398	88	471	30.085	ug/l #	33
51) 4-Methyl-2-Pentanone	10.157	43	12941	10.865	ug/l	89
52) Toluene	10.334	92	11626	2.189	ug/l	98
53) t-1,3-Dichloropropene	10.551	75	6420	2.256	ug/l	100
54) cis-1,3-Dichloropropene	10.022	75	7265	2.166	ug/l #	89
55) 1,1,2-Trichloroethane	10.734	97	4324	2.423	ug/l #	91
56) Ethyl methacrylate	10.598	69	4284	2.080	ug/l #	72
57) 1,3-Dichloropropane	10.881	76	6719	2.312	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.869	63	9259	11.615	ug/l	99
59) 2-Hexanone	10.922	43	8805	10.361	ug/l	90
60) Dibromochloromethane	11.069	129	4440	2.142	ug/l	96
61) 1,2-Dibromoethane	11.175	107	3406	2.059	ug/l	84
64) Tetrachloroethene	10.816	164	4175	2.611	ug/l	91
65) Chlorobenzene	11.604	112	13072	2.318	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.687	131	4788	2.281	ug/l	95
67) Ethyl Benzene	11.687	91	22168	2.238	ug/l	92
68) m/p-Xylenes	11.792	106	15955	4.195	ug/l	86
69) o-Xylene	12.116	106	7576	2.060	ug/l	88
70) Styrene	12.139	104	13040	2.025	ug/l	97
71) Bromoform	12.298	173	3056	2.658	ug/l #	93
73) Isopropylbenzene	12.422	105	18968	2.101	ug/l	98
74) N-amyl acetate	12.239	43	4410	2.318	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.669	83	5477	2.825	ug/l	94
76) 1,2,3-Trichloropropane	12.716	75	3490m	2.949	ug/l	
77) Bromobenzene	12.698	156	5408	2.595	ug/l	85
78) n-propylbenzene	12.763	91	25374	2.318	ug/l	97
79) 2-Chlorotoluene	12.845	91	13817	2.302	ug/l	97
80) 1,3,5-Trimethylbenzene	12.904	105	15987	2.190	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.469	75	1575	2.832	ug/l #	79
82) 4-Chlorotoluene	12.951	91	13939	2.223	ug/l	97
83) tert-Butylbenzene	13.163	119	14303	2.225	ug/l	93
84) 1,2,4-Trimethylbenzene	13.210	105	15735	2.109	ug/l	98
85) sec-Butylbenzene	13.345	105	22253	2.266	ug/l	96
86) p-Isopropyltoluene	13.457	119	18411	2.270	ug/l	97
87) 1,3-Dichlorobenzene	13.457	146	10259	2.393	ug/l	93
88) 1,4-Dichlorobenzene	13.534	146	11325	2.696	ug/l	90
89) n-Butylbenzene	13.786	91	18631	2.347	ug/l	97
90) Hexachloroethane	14.051	117	3954	2.637	ug/l	80
91) 1,2-Dichlorobenzene	13.828	146	9231	2.444	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.445	75	516m	1.867	ug/l	
93) 1,2,4-Trichlorobenzene	15.092	180	5667	2.457	ug/l	99
94) Hexachlorobutadiene	15.198	225	2980	2.687	ug/l	93
95) Naphthalene	15.333	128	12706	2.544	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.522	180	5250	2.537	ug/l	90

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

