

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022123\
 Data File : VN076749.D
 Acq On : 21 Feb 2023 13:48
 Operator : JC\MD
 Sample : MDL04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/22/2023
 Supervised By : Mahesh Dadoda 02/22/2023

Quant Time: Feb 22 04:11:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	274016	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	495383	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	436648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	173114	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	202867	53.615	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.240%			
35) Dibromofluoromethane	8.172	113	153256	47.240	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.480%			
50) Toluene-d8	10.571	98	574644	47.430	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.860%			
62) 4-Bromofluorobenzene	12.854	95	167539	41.752	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 83.500%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.131	85	1464	0.503	ug/l	80
3) Chloromethane	2.372	50	2438	0.642	ug/l	95
4) Vinyl Chloride	2.531	62	2307	0.617	ug/l	93
5) Bromomethane	2.972	94	2604	1.150	ug/l	87
6) Chloroethane	3.137	64	2190	0.928	ug/l #	70
7) Trichlorofluoromethane	3.507	101	2845	0.560	ug/l	85
8) Diethyl Ether	3.984	74	881	0.450	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.378	101	1831m	0.613	ug/l	
10) Methyl Iodide	4.631	142	1773	0.481	ug/l #	41
11) Tert butyl alcohol	5.519	59	1633m	3.270	ug/l	
12) 1,1-Dichloroethene	4.372	96	1579m	0.558	ug/l	
13) Acrolein	4.201	56	2534	3.379	ug/l #	37
14) Allyl chloride	5.048	41	2790	0.569	ug/l #	89
15) Acrylonitrile	5.754	53	4776	2.695	ug/l #	31
16) Acetone	4.460	43	6689	3.958	ug/l #	79
17) Carbon Disulfide	4.742	76	4289m	0.574	ug/l	
18) Methyl Acetate	5.048	43	2950	0.535	ug/l #	70
19) Methyl tert-butyl Ether	5.807	73	4299	0.451	ug/l #	81
20) Methylene Chloride	5.278	84	3144m	0.888	ug/l	
21) trans-1,2-Dichloroethene	5.813	96	1712m	0.538	ug/l	
22) Diisopropyl ether	6.683	45	5818	0.506	ug/l #	90
23) Vinyl Acetate	6.619	43	16523	2.430	ug/l #	81
24) 1,1-Dichloroethane	6.589	63	3795	0.602	ug/l #	55
25) 2-Butanone	7.507	43	8370	3.357	ug/l #	75
26) 2,2-Dichloropropane	7.489	77	3701	0.815	ug/l #	73
27) cis-1,2-Dichloroethene	7.495	96	2294m	0.607	ug/l	
28) Bromochloromethane	7.830	49	664m	0.221	ug/l	
29) Tetrahydrofuran	7.842	42	4541m	2.788	ug/l	
30) Chloroform	7.978	83	4241	0.674	ug/l	91
31) Cyclohexane	8.225	56	10832	1.825	ug/l #	59
32) 1,1,1-Trichloroethane	8.172	97	2938m	0.555	ug/l	
36) 1,1-Dichloropropene	8.377	75	2863	0.611	ug/l	96
37) Ethyl Acetate	7.578	43	2258	0.458	ug/l #	85
38) Carbon Tetrachloride	8.377	117	3342	0.707	ug/l #	95
39) Methylcyclohexane	9.601	83	2826	0.530	ug/l #	87
40) Benzene	8.607	78	7511	0.522	ug/l #	70

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.801	41	1526	0.534	ug/l #	55
42) 1,2-Dichloroethane	8.677	62	3643	0.726	ug/l	86
43) Isopropyl Acetate	8.695	43	4356	0.543	ug/l #	91
44) Trichloroethene	9.348	130	2128	0.626	ug/l	86
45) 1,2-Dichloropropane	9.619	63	2781	0.730	ug/l #	68
46) Dibromomethane	9.713	93	1499	0.615	ug/l #	72
47) Bromodichloromethane	9.895	83	2867	0.587	ug/l #	51
48) Methyl methacrylate	9.683	41	2198	0.577	ug/l	91
49) 1,4-Dioxane	9.713	88	616	9.351	ug/l #	60
51) 4-Methyl-2-Pentanone	10.448	43	11522	2.257	ug/l	90
52) Toluene	10.636	92	5758	0.663	ug/l	89
53) t-1,3-Dichloropropene	10.842	75	2031	0.431	ug/l	96
54) cis-1,3-Dichloropropene	10.319	75	2429	0.447	ug/l	90
55) 1,1,2-Trichloroethane	11.024	97	1800	0.509	ug/l #	85
56) Ethyl methacrylate	10.877	69	2445	0.492	ug/l #	92
57) 1,3-Dichloropropane	11.160	76	3965	0.653	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.171	63	5656	2.483	ug/l	95
59) 2-Hexanone	11.201	43	8827	2.398	ug/l	99
60) Dibromochloromethane	11.360	129	2069	0.556	ug/l	99
61) 1,2-Dibromoethane	11.466	107	1521	0.430	ug/l	81
64) Tetrachloroethene	11.113	164	2015	0.732	ug/l #	48
65) Chlorobenzene	11.895	112	6513	0.704	ug/l #	62
66) 1,1,1,2-Tetrachloroethane	11.965	131	1836	0.546	ug/l #	58
67) Ethyl Benzene	11.960	91	8458	0.536	ug/l #	71
68) m/p-Xylenes	12.065	106	5588	0.920	ug/l	98
69) o-Xylene	12.401	106	2717	0.458	ug/l	98
70) Styrene	12.418	104	3817	0.398	ug/l #	74
71) Bromoform	12.583	173	1195	0.485	ug/l #	87
73) Isopropylbenzene	12.701	105	6762	0.533	ug/l	99
74) N-amyl acetate	12.507	43	2732	0.478	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.942	83	3295	0.717	ug/l	80
76) 1,2,3-Trichloropropane	12.995	75	2308m	0.659	ug/l	
77) Bromobenzene	12.989	156	2092	0.661	ug/l	79
78) n-propylbenzene	13.036	91	8756	0.588	ug/l #	73
79) 2-Chlorotoluene	13.124	91	6058	0.664	ug/l	97
80) 1,3,5-Trimethylbenzene	13.177	105	5387	0.514	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.736	75	564m	0.469	ug/l	
82) 4-Chlorotoluene	13.124	91	6058	0.664	ug/l	97
83) tert-Butylbenzene	13.436	119	5219	0.550	ug/l	82
84) 1,2,4-Trimethylbenzene	13.483	105	4458	0.427	ug/l #	65
85) sec-Butylbenzene	13.624	105	6120	0.462	ug/l	94
86) p-Isopropyltoluene	13.736	119	4339	0.410	ug/l	85
87) 1,3-Dichlorobenzene	13.730	146	3822	0.639	ug/l	95
88) 1,4-Dichlorobenzene	13.812	146	4235m	0.711	ug/l	
89) n-Butylbenzene	14.059	91	4936	0.537	ug/l	96
90) Hexachloroethane	14.342	117	1587	0.717	ug/l	63
91) 1,2-Dichlorobenzene	14.112	146	3028	0.494	ug/l	86
92) 1,2-Dibromo-3-Chloropr...	14.718	75	641	0.720	ug/l #	40
93) 1,2,4-Trichlorobenzene	15.401	180	1536	0.502	ug/l	92
94) Hexachlorobutadiene	15.506	225	1011	0.674	ug/l #	65
95) Naphthalene	15.648	128	2958	0.319	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.836	180	1365	0.460	ug/l #	68

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

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