

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077183.D
 Acq On : 24 Mar 2023 17:02
 Operator : JC\MD
 Sample : 01627-07 LOD 2.5
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2023

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/27/2023
 Supervised By : Semsettin Yesilyurt 03/27/2023

Quant Time: Mar 24 23:32:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 05:55:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	40619	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	265266	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	287652	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	125361	30.390	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.300%			
60) 4-Bromofluorobenzene	12.854	95	137864	26.679	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 88.933%			
63) Toluene-d8	10.572	98	310059	30.196	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	10142	3.792	ug/l	93
3) Chloromethane	2.372	50	12922	3.036	ug/l	93
4) Vinyl Chloride	2.525	62	16096	2.682	ug/l	91
5) Bromomethane	2.966	94	14428	3.429	ug/l	93
6) Chloroethane	3.137	64	23073m	4.612	ug/l	
7) Trichlorofluoromethane	3.507	101	24094	2.789	ug/l	99
8) Diethyl Ether	3.978	74	7851m	2.590	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.384	101	12127	2.685	ug/l	82
10) 1,1-Dichloroethene	4.360	96	11445m	2.708	ug/l	
11) Methyl Iodide	4.601	142	10730m	2.384	ug/l	
12) Methyl Acetate	5.043	43	22349	2.452	ug/l #	87
13) Acrolein	4.202	56	15886	12.862	ug/l #	36
14) Acrylonitrile	5.743	53	32349m	11.701	ug/l	
15) Acetone	4.449	58	10073	13.934	ug/l #	57
16) Carbon Disulfide	4.731	76	30006	2.514	ug/l	96
17) Allyl chloride	5.037	41	16955m	2.281	ug/l	
18) Methylene Chloride	5.290	84	14872	2.863	ug/l	96
19) trans-1,2-Dichloroethene	5.796	96	12461m	2.752	ug/l	
20) Diisopropyl ether	6.684	45	39134	2.324	ug/l #	76
21) 1,1-Dichloroethane	6.584	63	24310	2.564	ug/l	98
22) cis-1,2-Dichloroethene	7.490	96	13909	2.602	ug/l #	87
23) tert-Butyl Alcohol	5.525	59	12313m	13.121	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	36915m	2.460	ug/l	
25) Chloroform	7.966	83	23347	2.517	ug/l	87
26) Cyclohexane	8.260	56	17781	2.224	ug/l #	100
29) 1,1-Dichloropropene	8.384	75	15380m	2.390	ug/l	
30) 2-Butanone	7.495	43	46646	12.565	ug/l #	92
31) 2,2-Dichloropropane	7.495	77	16651	2.762	ug/l #	83
32) 1,1,1-Trichloroethane	8.178	97	20342	2.622	ug/l	97
33) Carbon Tetrachloride	8.366	117	15802	2.424	ug/l #	80
34) Benzene	8.607	78	52106	2.642	ug/l #	75
35) Methacrylonitrile	7.784	41	9451m	2.319	ug/l	
36) 1,2-Dichloroethane	8.678	62	20035	2.755	ug/l #	85
37) Trichloroethene	9.360	130	11341	2.543	ug/l	100
38) Methylcyclohexane	9.601	83	15988	2.087	ug/l	91
39) 1,2-Dichloropropane	9.625	63	13780	2.610	ug/l	97
40) Dibromomethane	9.713	93	9595	2.841	ug/l	86
41) Bromodichloromethane	9.889	83	16787	2.441	ug/l	86
42) Vinyl Acetate	6.619	43	122232	10.985	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	14076	1.898	ug/l	98
44) Isopropyl Acetate	8.695	43	27801	2.323	ug/l #	71
45) 1,4-Dioxane	9.719	88	4687m	48.162	ug/l	
46) Methyl methacrylate	9.684	41	12447	2.256	ug/l	93
47) n-amyl Acetate	12.495	43	17857	1.773	ug/l	91
48) t-1,3-Dichloropropene	10.836	75	14590	2.089	ug/l	90
49) cis-1,3-Dichloropropene	10.319	75	17579	2.299	ug/l	97
50) 1,1,2-Trichloroethane	11.013	97	12845	2.710	ug/l #	87
51) Ethyl methacrylate	10.878	69	13545	1.851	ug/l	95
52) 1,3-Dichloropropane	11.166	76	22459	2.669	ug/l	98
53) Dibromochloromethane	11.360	129	10821	2.205	ug/l	98
54) 1,2-Dibromoethane	11.472	107	11035	2.366	ug/l	92
55) 2-Chloroethyl vinyl ether	10.166	63	29842	9.752	ug/l	98
56) Bromoform	12.583	173	7490	2.175	ug/l #	93
58) 4-Methyl-2-Pentanone	10.448	43	85684	11.541	ug/l	98
59) 2-Hexanone	11.201	43	59523	10.996	ug/l	97
61) Tetrachloroethene	11.113	164	10065	2.788	ug/l #	79
62) Toluene	10.631	91	52921	2.618	ug/l	99
64) Chlorobenzene	11.889	112	30325	2.535	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.960	131	11821	2.691	ug/l	96
66) Ethyl Benzene	11.966	91	46589	2.145	ug/l	93
67) m/p-Xylenes	12.072	106	34560	4.134	ug/l	99
68) o-Xylene	12.407	106	18694	2.284	ug/l	89
69) Styrene	12.413	104	24725	1.860	ug/l	96
70) Isopropylbenzene	12.695	105	41267	1.944	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	18350	2.641	ug/l	95
72) 1,2,3-Trichloropropane	12.995	75	13803m	2.245	ug/l	
73) Bromobenzene	12.983	156	11439	2.411	ug/l	93
74) n-propylbenzene	13.036	91	48462	1.972	ug/l	99
75) 2-Chlorotoluene	13.130	91	31777	2.145	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	30973	1.758	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	3757	1.917	ug/l	86
78) 4-Chlorotoluene	13.224	91	28466	1.997	ug/l	95
79) tert-butylbenzene	13.442	119	31393	2.086	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	28343	1.621	ug/l	98
81) sec-Butylbenzene	13.619	105	38753	1.783	ug/l	100
82) p-Isopropyltoluene	13.730	119	26333	1.512	ug/l	94
83) 1,3-Dichlorobenzene	13.736	146	19347	2.202	ug/l	96
84) 1,4-Dichlorobenzene	13.819	146	17290	2.020	ug/l	99
85) n-Butylbenzene	14.060	91	22239	1.510	ug/l	98
86) Hexachloroethane	14.342	117	7519	2.263	ug/l	96
87) 1,2-Dichlorobenzene	14.107	146	18923	2.154	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	3057	2.293	ug/l	88
89) 1,2,4-Trichlorobenzene	15.848	180	4972	1.269	ug/l	91
90) Hexachlorobutadiene	15.501	225	4993	2.258	ug/l	92
91) Naphthalene	15.648	128	11888	0.924	ug/l #	74
92) 1,2,3-Trichlorobenzene	15.848	180	4972	1.277	ug/l	91

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

