

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077504.D
 Acq On : 28 Apr 2023 16:41
 Operator : JC\MD
 Sample : VN0428WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0428WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

Quant Time: Apr 28 19:04:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:20:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	65160	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	492769	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	522329	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	179571	30.912	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.033%			
60) 4-Bromofluorobenzene	12.854	95	274291	29.974	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.900%			
63) Toluene-d8	10.572	98	547155	29.728	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.100%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.137	85	152126	18.753	ug/l	99
3) Chloromethane	2.372	50	114107	19.041	ug/l	100
4) Vinyl Chloride	2.525	62	155228	18.624	ug/l	97
5) Bromomethane	2.978	94	126451	17.972	ug/l	97
6) Chloroethane	3.143	64	97850	16.302	ug/l	92
7) Trichlorofluoromethane	3.507	101	225522	18.347	ug/l	99
8) Diethyl Ether	3.972	74	81519	18.952	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.384	101	135374	19.486	ug/l	98
10) 1,1-Dichloroethene	4.349	96	127766	19.171	ug/l	97
11) Methyl Iodide	4.607	142	147692	18.063	ug/l	94
12) Methyl Acetate	5.037	43	182044	18.939	ug/l	96
13) Acrolein	4.190	56	112850	97.922	ug/l	99
14) Acrylonitrile	5.731	53	269695	91.457	ug/l	99
15) Acetone	4.437	58	89674	95.244	ug/l	87
16) Carbon Disulfide	4.719	76	315777	18.894	ug/l #	95
17) Allyl chloride	5.037	41	129230	17.683	ug/l	93
18) Methylene Chloride	5.296	84	146573	18.642	ug/l	97
19) trans-1,2-Dichloroethene	5.795	96	135794	18.440	ug/l	90
20) Diisopropyl ether	6.684	45	330469	19.426	ug/l	98
21) 1,1-Dichloroethane	6.572	63	233741	18.801	ug/l	94
22) cis-1,2-Dichloroethene	7.489	96	162909	18.471	ug/l	96
23) tert-Butyl Alcohol	5.531	59	115604	90.870	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	444443m	19.226	ug/l	
25) Chloroform	7.972	83	271817	19.023	ug/l	98
26) Cyclohexane	8.260	56	191694	18.902	ug/l	99
29) 1,1-Dichloropropene	8.378	75	197926	19.055	ug/l	98
30) 2-Butanone	7.484	43	350588	92.062	ug/l	99
31) 2,2-Dichloropropane	7.495	77	231893	19.081	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	247791	18.482	ug/l	97
33) Carbon Tetrachloride	8.366	117	215185	18.492	ug/l	95
34) Benzene	8.607	78	593044	18.566	ug/l	96
35) Methacrylonitrile	7.784	41	73023	18.780	ug/l	95
36) 1,2-Dichloroethane	8.672	62	204689	18.763	ug/l	99
37) Trichloroethene	9.354	130	149706	18.543	ug/l	94
38) Methylcyclohexane	9.601	83	251910	18.460	ug/l	96
39) 1,2-Dichloropropane	9.625	63	132169	17.864	ug/l	92
40) Dibromomethane	9.713	93	106640	18.277	ug/l	98
41) Bromodichloromethane	9.889	83	213296	18.510	ug/l #	93
42) Vinyl Acetate	6.613	43	1164893m	97.127	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	142906m	19.387	ug/l	
44) Isopropyl Acetate	8.689	43	251268	19.243	ug/l	94
45) 1,4-Dioxane	9.695	88	51254	323.673	ug/l #	96
46) Methyl methacrylate	9.683	41	109796	18.476	ug/l	99
47) n-amyl Acetate	12.495	43	190401	18.191	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	211954	18.066	ug/l	96
49) cis-1,3-Dichloropropene	10.313	75	233440	18.432	ug/l	95
50) 1,1,2-Trichloroethane	11.019	97	154817	18.692	ug/l	94
51) Ethyl methacrylate	10.878	69	214784	18.731	ug/l	95
52) 1,3-Dichloropropane	11.166	76	247312	18.400	ug/l	99
53) Dibromochloromethane	11.360	129	152776	17.916	ug/l	96
54) 1,2-Dibromoethane	11.477	107	152144	17.950	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	401458	106.690	ug/l	99
56) Bromoform	12.583	173	94644	17.794	ug/l #	97
58) 4-Methyl-2-Pentanone	10.448	43	725857	96.494	ug/l	99
59) 2-Hexanone	11.195	43	520808	93.974	ug/l	99
61) Tetrachloroethene	11.107	164	117358	19.236	ug/l	94
62) Toluene	10.630	91	672871	19.154	ug/l	99
64) Chlorobenzene	11.895	112	405478	18.894	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	148401	19.350	ug/l	97
66) Ethyl Benzene	11.966	91	727249	18.960	ug/l	99
67) m/p-Xylenes	12.077	106	570887	38.220	ug/l	99
68) o-Xylene	12.401	106	278313	18.758	ug/l	95
69) Styrene	12.413	104	441481	19.136	ug/l	98
70) Isopropylbenzene	12.701	105	727832	19.326	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	212586	18.531	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	155459m	15.931	ug/l	
73) Bromobenzene	12.983	156	149996	18.521	ug/l	98
74) n-propylbenzene	13.036	91	819104	19.546	ug/l	98
75) 2-Chlorotoluene	13.124	91	495774	19.180	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	561412	19.339	ug/l	98
77) t-1,4-Dichloro-2-butene	12.742	75	59958	18.603	ug/l	89
78) 4-Chlorotoluene	13.224	91	475737	19.441	ug/l	100
79) tert-butylbenzene	13.442	119	515939	19.213	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	506181	18.959	ug/l	96
81) sec-Butylbenzene	13.619	105	725530	19.380	ug/l	99
82) p-Isopropyltoluene	13.736	119	564956	19.258	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	278462	19.655	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	273080	19.507	ug/l	97
85) n-Butylbenzene	14.060	91	440514	19.431	ug/l	99
86) Hexachloroethane	14.336	117	112323	18.900	ug/l	98
87) 1,2-Dichlorobenzene	14.107	146	272736	18.921	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.724	75	40086	18.904	ug/l	99
89) 1,2,4-Trichlorobenzene	15.395	180	61843	16.347	ug/l	98
90) Hexachlorobutadiene	15.507	225	56042	18.214	ug/l	95
91) Naphthalene	15.642	128	237544	17.200	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	62145	17.557	ug/l	93

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

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