

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041423\
 Data File : VN077343.D
 Acq On : 14 Apr 2023 10:37
 Operator : JC\MD
 Sample : VN0414WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/17/2023
 Supervised By : Mahesh Dadoda 04/17/2023

Quant Time: Apr 17 05:06:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	48681	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	350212	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	384442	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	124539	30.164	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.533%			
60) 4-Bromofluorobenzene	12.854	95	194136	29.204	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.333%			
63) Toluene-d8	10.572	98	394394	29.182	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	81338	17.575	ug/l	94
3) Chloromethane	2.372	50	94647	15.394	ug/l	94
4) Vinyl Chloride	2.525	62	136404	15.489	ug/l	95
5) Bromomethane	2.954	94	109994	16.575	ug/l	87
6) Chloroethane	3.125	64	99418	16.842	ug/l	98
7) Trichlorofluoromethane	3.501	101	139137	16.968	ug/l	88
8) Diethyl Ether	3.972	74	64320	18.403	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.384	101	89780m	17.509	ug/l	
10) 1,1-Dichloroethene	4.348	96	82982	16.177	ug/l	93
11) Methyl Iodide	4.607	142	111594	19.256	ug/l	99
12) Methyl Acetate	5.043	43	141395m	18.501	ug/l	
13) Acrolein	4.196	56	92389	97.392	ug/l	100
14) Acrylonitrile	5.731	53	235441	90.126	ug/l	99
15) Acetone	4.443	58	67878	71.622	ug/l	98
16) Carbon Disulfide	4.725	76	208451	15.396	ug/l	98
17) Allyl chloride	5.031	41	94153	14.258	ug/l	99
18) Methylene Chloride	5.284	84	106526	17.883	ug/l	94
19) trans-1,2-Dichloroethene	5.795	96	96039	17.219	ug/l	95
20) Diisopropyl ether	6.684	45	270661	17.198	ug/l	97
21) 1,1-Dichloroethane	6.572	63	172432	17.286	ug/l	99
22) cis-1,2-Dichloroethene	7.495	96	120733	17.756	ug/l	98
23) tert-Butyl Alcohol	5.537	59	107108	92.208	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	343789	18.616	ug/l	98
25) Chloroform	7.972	83	190634	17.634	ug/l	98
26) Cyclohexane	8.266	56	133799	15.436	ug/l #	97
29) 1,1-Dichloropropene	8.378	75	129525	17.073	ug/l	97
30) 2-Butanone	7.489	43	302349	84.276	ug/l	98
31) 2,2-Dichloropropane	7.495	77	154538	16.594	ug/l	100
32) 1,1,1-Trichloroethane	8.172	97	169190	18.121	ug/l	98
33) Carbon Tetrachloride	8.366	117	141096	17.707	ug/l	98
34) Benzene	8.613	78	425701	18.135	ug/l	96
35) Methacrylonitrile	7.789	41	62306	18.436	ug/l	97
36) 1,2-Dichloroethane	8.678	62	148712	20.207	ug/l	98
37) Trichloroethene	9.354	130	105384	18.354	ug/l	89
38) Methylcyclohexane	9.607	83	179101	17.406	ug/l	98
39) 1,2-Dichloropropane	9.625	63	106672	18.306	ug/l	98
40) Dibromomethane	9.713	93	83669	19.928	ug/l	99
41) Bromodichloromethane	9.889	83	161728	19.317	ug/l	98
42) Vinyl Acetate	6.613	43	1075441m	103.575	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	123697	18.636	ug/l	94
44) Isopropyl Acetate	8.695	43	226446	19.054	ug/l #	100
45) 1,4-Dioxane	9.695	88	50181	400.373	ug/l	96
46) Methyl methacrylate	9.683	41	97602	19.075	ug/l	89
47) n-amyl Acetate	12.501	43	188475	18.148	ug/l	96
48) t-1,3-Dichloropropene	10.842	75	176794	18.869	ug/l	98
49) cis-1,3-Dichloropropene	10.319	75	184507	18.510	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	123979	20.329	ug/l	98
51) Ethyl methacrylate	10.877	69	185472	19.804	ug/l	96
52) 1,3-Dichloropropane	11.166	76	204684	20.109	ug/l	97
53) Dibromochloromethane	11.366	129	127843	19.889	ug/l	99
54) 1,2-Dibromoethane	11.472	107	121154	19.789	ug/l	96
55) 2-Chloroethyl vinyl ether	10.166	63	305438	105.631	ug/l	98
56) Bromoform	12.583	173	85742	19.858	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	689405	95.776	ug/l	99
59) 2-Hexanone	11.201	43	506830	91.093	ug/l	99
61) Tetrachloroethene	11.107	164	84459	18.471	ug/l	96
62) Toluene	10.636	91	500755	18.669	ug/l	99
64) Chlorobenzene	11.895	112	306956	18.836	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.966	131	113769	18.985	ug/l	96
66) Ethyl Benzene	11.966	91	539622	18.159	ug/l	98
67) m/p-Xylenes	12.077	106	425884	36.563	ug/l	99
68) o-Xylene	12.401	106	211236	18.127	ug/l	96
69) Styrene	12.419	104	345205	18.490	ug/l	99
70) Isopropylbenzene	12.701	105	542306	18.337	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	184092	20.327	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	141758m	23.027	ug/l	
73) Bromobenzene	12.983	156	114284	19.021	ug/l	98
74) n-propylbenzene	13.042	91	586004	17.909	ug/l	99
75) 2-Chlorotoluene	13.130	91	361329	18.433	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	434429	18.049	ug/l	96
77) t-1,4-Dichloro-2-butene	12.742	75	57069	18.200	ug/l	93
78) 4-Chlorotoluene	13.224	91	334538	18.062	ug/l	99
79) tert-butylbenzene	13.442	119	382053	18.238	ug/l	100
80) 1,2,4-Trimethylbenzene	13.489	105	413041	17.603	ug/l	100
81) sec-Butylbenzene	13.618	105	539373	18.028	ug/l	100
82) p-Isopropyltoluene	13.736	119	425633	17.758	ug/l	100
83) 1,3-Dichlorobenzene	13.736	146	204159	17.921	ug/l	100
84) 1,4-Dichlorobenzene	13.818	146	199338	18.035	ug/l	98
85) n-Butylbenzene	14.060	91	335292	16.928	ug/l	99
86) Hexachloroethane	14.342	117	89183	17.491	ug/l	98
87) 1,2-Dichlorobenzene	14.113	146	213639	19.139	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	32566	18.765	ug/l	95
89) 1,2,4-Trichlorobenzene	15.371	180	65656	14.953	ug/l	95
90) Hexachlorobutadiene	15.465	225	41598	18.473	ug/l	99
91) Naphthalene	15.589	128	245689	14.647	ug/l	99
92) 1,2,3-Trichlorobenzene	15.759	180	61425	14.337	ug/l	99

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

