

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021723\
 Data File : VN076730.D
 Acq On : 17 Feb 2023 13:04
 Operator : JC\MD
 Sample : VN0217WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0217WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/21/2023
 Supervised By : Mahesh Dadoda 02/21/2023

Quant Time: Feb 18 02:05:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	32208	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	227177	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	263263	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	93675	31.800	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.000%			
60) 4-Bromofluorobenzene	12.854	95	140866	30.251	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.833%			
63) Toluene-d8	10.571	98	268414	29.108	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	78447	23.016	ug/l	95
3) Chloromethane	2.378	50	94218	22.512	ug/l	95
4) Vinyl Chloride	2.525	62	98791	22.116	ug/l	91
5) Bromomethane	2.966	94	66842	21.673	ug/l	94
6) Chloroethane	3.131	64	71316	24.619	ug/l	96
7) Trichlorofluoromethane	3.513	101	123764	22.226	ug/l	97
8) Diethyl Ether	3.978	74	48927	22.145	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.395	101	77751m	22.974	ug/l	
10) 1,1-Dichloroethene	4.354	96	67785	21.326	ug/l	98
11) Methyl Iodide	4.601	142	99465	25.077	ug/l	88
12) Methyl Acetate	5.037	43	149033	22.871	ug/l #	89
13) Acrolein	4.195	56	63581	82.153	ug/l	97
14) Acrylonitrile	5.731	53	231282	115.651	ug/l	99
15) Acetone	4.448	58	73443	113.430	ug/l	95
16) Carbon Disulfide	4.719	76	188152	21.103	ug/l	97
17) Allyl chloride	5.037	41	120714	21.217	ug/l	93
18) Methylene Chloride	5.289	84	88264	22.000	ug/l #	89
19) trans-1,2-Dichloroethene	5.801	96	75575	21.201	ug/l	95
20) Diisopropyl ether	6.683	45	303752	22.578	ug/l #	92
21) 1,1-Dichloroethane	6.583	63	156264	22.205	ug/l	97
22) cis-1,2-Dichloroethene	7.495	96	91590	22.394	ug/l	97
23) tert-Butyl Alcohol	5.531	59	72696m	125.781	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	251660m	22.883	ug/l	
25) Chloroform	7.972	83	158668	22.992	ug/l	86
26) Cyclohexane	8.266	56	140058	22.268	ug/l #	93
29) 1,1-Dichloropropene	8.383	75	114738	22.141	ug/l	97
30) 2-Butanone	7.495	43	351520	116.293	ug/l	97
31) 2,2-Dichloropropane	7.501	77	120972	22.337	ug/l #	61
32) 1,1,1-Trichloroethane	8.178	97	129710	21.561	ug/l	98
33) Carbon Tetrachloride	8.372	117	110320	21.164	ug/l	97
34) Benzene	8.613	78	366335	22.144	ug/l	95
35) Methacrylonitrile	7.789	41	71726	21.754	ug/l	96
36) 1,2-Dichloroethane	8.677	62	127617	23.046	ug/l	99
37) Trichloroethene	9.360	130	77554	20.158	ug/l	94
38) Methylcyclohexane	9.607	83	142874	21.909	ug/l	98
39) 1,2-Dichloropropane	9.624	63	95745	22.269	ug/l	90
40) Dibromomethane	9.713	93	62693	22.864	ug/l	96
41) Bromodichloromethane	9.895	83	121036	22.006	ug/l #	98
42) Vinyl Acetate	6.619	43	989548	112.962	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	136927	23.777	ug/l	97
44) Isopropyl Acetate	8.695	43	221029	23.316	ug/l	100
45) 1,4-Dioxane	9.701	88	35210	438.850	ug/l	95
46) Methyl methacrylate	9.689	41	105215	24.178	ug/l	92
47) n-amyl Acetate	12.501	43	198199	23.676	ug/l	99
48) t-1,3-Dichloropropene	10.842	75	121638	21.805	ug/l	98
49) cis-1,3-Dichloropropene	10.319	75	140292	22.095	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	89185	22.374	ug/l	96
51) Ethyl methacrylate	10.877	69	130712	22.586	ug/l	91
52) 1,3-Dichloropropane	11.171	76	158586	23.142	ug/l	98
53) Dibromochloromethane	11.360	129	86792	21.197	ug/l	100
54) 1,2-Dibromoethane	11.471	107	88139	22.714	ug/l	100
55) 2-Chloroethyl vinyl ether	10.166	63	239210	93.238	ug/l	96
56) Bromoform	12.583	173	60482	21.448	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	721546	115.237	ug/l	100
59) 2-Hexanone	11.201	43	541587	116.287	ug/l	100
61) Tetrachloroethene	11.107	164	70311	21.150	ug/l	91
62) Toluene	10.636	91	392255	21.320	ug/l	100
64) Chlorobenzene	11.895	112	228478	20.844	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	80898	20.133	ug/l	96
66) Ethyl Benzene	11.965	91	427578	21.861	ug/l	99
67) m/p-Xylenes	12.077	106	340122	44.468	ug/l	99
68) o-Xylene	12.401	106	161314	21.402	ug/l	99
69) Styrene	12.413	104	271380	22.427	ug/l	99
70) Isopropylbenzene	12.701	105	428321	22.274	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.942	83	141310	22.462	ug/l	97
72) 1,2,3-Trichloropropane	13.001	75	125481m	22.643	ug/l	
73) Bromobenzene	12.983	156	91703	20.552	ug/l	94
74) n-propylbenzene	13.042	91	514052	22.445	ug/l	99
75) 2-Chlorotoluene	13.130	91	301625	22.133	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	364098	22.703	ug/l	96
77) t-1,4-Dichloro-2-butene	12.742	75	38841	21.814	ug/l	98
78) 4-Chlorotoluene	13.224	91	294398	22.534	ug/l	98
79) tert-butylbenzene	13.442	119	320526	22.573	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	365738	22.967	ug/l	99
81) sec-Butylbenzene	13.618	105	466773	22.891	ug/l	100
82) p-Isopropyltoluene	13.736	119	377966	22.863	ug/l	100
83) 1,3-Dichlorobenzene	13.736	146	187698	22.016	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	182163	21.906	ug/l	95
85) n-Butylbenzene	14.059	91	320849	22.899	ug/l	100
86) Hexachloroethane	14.342	117	67416	21.066	ug/l	96
87) 1,2-Dichlorobenzene	14.112	146	190028	22.167	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	28444	24.391	ug/l	95
89) 1,2,4-Trichlorobenzene	15.401	180	94259	21.554	ug/l	98
90) Hexachlorobutadiene	15.501	225	47529	22.560	ug/l	92
91) Naphthalene	15.648	128	299913	21.329	ug/l	100
92) 1,2,3-Trichlorobenzene	15.848	180	92671	20.877	ug/l	99

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

