

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076886.D
 Acq On : 08 Mar 2023 19:11
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Mar 09 03:48:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 03:46:27 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/09/2023
 Supervised By : Mahesh Dadoda 03/09/2023

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

Internal Standards						
1) Bromochloromethane	7.825	128	49864	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	365793	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	410297	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	140897	30.651	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.167%			
60) 4-Bromofluorobenzene	12.848	95	232786	31.776	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.933%			
63) Toluene-d8	10.572	98	423038	29.424	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.143	85	322199	58.109	ug/l	96
3) Chloromethane	2.378	50	286578	44.908	ug/l	97
4) Vinyl Chloride	2.531	62	265306	40.003	ug/l	90
5) Bromomethane	2.972	94	152159	33.079	ug/l	90
6) Chloroethane	3.137	64	153450	36.125	ug/l	99
7) Trichlorofluoromethane	3.513	101	493429	55.124	ug/l	97
8) Diethyl Ether	3.972	74	193419	55.011	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.390	101	288819	53.667	ug/l	75
10) 1,1-Dichloroethene	4.354	96	275949	54.393	ug/l	93
11) Methyl Iodide	4.607	142	365314	59.699	ug/l	96
12) Methyl Acetate	5.037	43	454764	45.805	ug/l	94
13) Acrolein	4.190	56	330366	266.121	ug/l	97
14) Acrylonitrile	5.737	53	740464	240.598	ug/l	100
15) Acetone	4.437	58	196037	203.584	ug/l	88
16) Carbon Disulfide	4.731	76	773256	54.518	ug/l	99
17) Allyl chloride	5.037	41	424601	48.506	ug/l	93
18) Methylene Chloride	5.295	84	314870	49.999	ug/l	87
19) trans-1,2-Dichloroethene	5.801	96	294666	52.577	ug/l	96
20) Diisopropyl ether	6.689	45	977431	47.583	ug/l	96
21) 1,1-Dichloroethane	6.578	63	558587	50.932	ug/l	99
22) cis-1,2-Dichloroethene	7.495	96	338010	52.973	ug/l	99
23) tert-Butyl Alcohol	5.531	59	211918	239.665	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	938672	54.146	ug/l	92
25) Chloroform	7.972	83	561531	52.204	ug/l	99
26) Cyclohexane	8.266	56	530830	53.761	ug/l #	96
29) 1,1-Dichloropropene	8.378	75	432258	51.741	ug/l	98
30) 2-Butanone	7.489	43	950225	204.597	ug/l	94
31) 2,2-Dichloropropane	7.501	77	425077	48.857	ug/l #	61
32) 1,1,1-Trichloroethane	8.178	97	495769	50.882	ug/l	97
33) Carbon Tetrachloride	8.372	117	436811	51.582	ug/l	97
34) Benzene	8.613	78	1290637	48.568	ug/l	99
35) Methacrylonitrile	7.784	41	226360	43.915	ug/l	93
36) 1,2-Dichloroethane	8.678	62	427810	48.075	ug/l	98
37) Trichloroethene	9.354	130	322966	51.729	ug/l	90
38) Methylcyclohexane	9.607	83	551406	52.051	ug/l	99
39) 1,2-Dichloropropane	9.625	63	329639	47.886	ug/l	95
40) Dibromomethane	9.713	93	211184	48.146	ug/l	94
41) Bromodichloromethane	9.889	83	437518	49.561	ug/l	100
42) Vinyl Acetate	6.613	43	3178138	231.471	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	381022	42.559	ug/l	96
44) Isopropyl Acetate	8.695	43	653442	44.092	ug/l	93
45) 1,4-Dioxane	9.695	88	103950	834.961	ug/l #	93
46) Methyl methacrylate	9.683	41	313573	45.898	ug/l	91
47) n-amyl Acetate	12.495	43	554209	43.233	ug/l	93
48) t-1,3-Dichloropropene	10.842	75	450894	50.608	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	515858	50.470	ug/l #	88
50) 1,1,2-Trichloroethane	11.019	97	306453	48.030	ug/l	96
51) Ethyl methacrylate	10.877	69	487720	52.583	ug/l	85
52) 1,3-Dichloropropane	11.166	76	534097	48.677	ug/l	99
53) Dibromochloromethane	11.360	129	320812	49.349	ug/l	98
54) 1,2-Dibromoethane	11.471	107	304500	49.321	ug/l	100
55) 2-Chloroethyl vinyl ether	10.160	63	874444	220.872	ug/l	99
56) Bromoform	12.583	173	220964	49.775	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	2016775	213.292	ug/l #	90
59) 2-Hexanone	11.195	43	1436201	206.132	ug/l #	89
61) Tetrachloroethene	11.107	164	321265	59.096	ug/l	91
62) Toluene	10.630	91	1372651	48.032	ug/l	99
64) Chlorobenzene	11.895	112	802627	47.636	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.966	131	300182	48.270	ug/l	97
66) Ethyl Benzene	11.966	91	1552849	50.949	ug/l	100
67) m/p-Xylenes	12.071	106	1159842	98.450	ug/l	91
68) o-Xylene	12.401	106	568363	49.029	ug/l	96
69) Styrene	12.413	104	945846	50.765	ug/l	98
70) Isopropylbenzene	12.701	105	1495380	50.399	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	417620	43.824	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	381231m	44.518	ug/l	
73) Bromobenzene	12.983	156	328930	48.289	ug/l	94
74) n-propylbenzene	13.036	91	1799244	50.776	ug/l	100
75) 2-Chlorotoluene	13.124	91	1076412	50.701	ug/l	97
76) 1,3,5-Trimethylbenzene	13.177	105	1295951	51.958	ug/l	94
77) t-1,4-Dichloro-2-butene	12.736	75	125220	46.377	ug/l	98
78) 4-Chlorotoluene	13.224	91	1045051	51.392	ug/l	94
79) tert-butylbenzene	13.442	119	1094246	50.314	ug/l	97
80) 1,2,4-Trimethylbenzene	13.483	105	1280118	51.992	ug/l	94
81) sec-Butylbenzene	13.618	105	1579826	50.429	ug/l	100
82) p-Isopropyltoluene	13.730	119	1297009	51.134	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	612385	47.327	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	607048	47.854	ug/l	96
85) n-Butylbenzene	14.060	91	1147475	53.153	ug/l	98
86) Hexachloroethane	14.336	117	221261	45.705	ug/l	91
87) 1,2-Dichlorobenzene	14.107	146	605535	46.784	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	88268	48.946	ug/l	96
89) 1,2,4-Trichlorobenzene	15.395	180	353144	52.819	ug/l	98
90) Hexachlorobutadiene	15.501	225	172003	52.683	ug/l	98
91) Naphthalene	15.642	128	1140660	53.211	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	349045	51.341	ug/l	98

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

