

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020923\
 Data File : VN076592.D
 Acq On : 09 Feb 2023 16:39
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/10/2023
 Supervised By : Semsettin Yesilyurt 02/10/2023

Quant Time: Feb 10 05:12:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:08:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.822	128	15311	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	127831	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	93256	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	60454	33.500	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.667%#			
60) 4-Bromofluorobenzene	12.851	95	77208	36.672	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 122.233%#			
63) Toluene-d8	10.569	98	105555	30.827	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.140	85	12401	5.852	ug/l	95
3) Chloromethane	2.381	50	18284	7.175	ug/l	90
4) Vinyl Chloride	2.528	62	16428	7.384	ug/l	97
5) Bromomethane	2.963	94	8300	7.431	ug/l	94
6) Chloroethane	3.128	64	10441	7.203	ug/l	99
7) Trichlorofluoromethane	3.510	101	21025	5.565	ug/l	90
8) Diethyl Ether	3.969	74	5288m	4.413	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.393	101	8010m	4.405	ug/l	
10) 1,1-Dichloroethene	4.363	96	7775m	4.549	ug/l	
11) Methyl Iodide	4.604	142	10663m	4.291	ug/l	
12) Methyl Acetate	5.051	43	18978	5.292	ug/l	98
13) Acrolein	4.199	56	11784	25.654	ug/l	92
14) Acrylonitrile	5.740	53	26290m	25.021	ug/l	
15) Acetone	4.440	58	8339m	27.503	ug/l	
16) Carbon Disulfide	4.728	76	20399	4.343	ug/l	100
17) Allyl chloride	5.034	41	16050	4.872	ug/l	73
18) Methylene Chloride	5.281	84	9861	4.876	ug/l #	85
19) trans-1,2-Dichloroethene	5.810	96	7619m	4.338	ug/l	
20) Diisopropyl ether	6.687	45	43979	5.848	ug/l #	87
21) 1,1-Dichloroethane	6.581	63	24539	5.984	ug/l #	96
22) cis-1,2-Dichloroethene	7.492	96	9927	4.719	ug/l	93
23) tert-Butyl Alcohol	5.545	59	7447m	21.122	ug/l	
24) Methyl tert-Butyl Ether	5.810	73	24499m	3.979	ug/l	
25) Chloroform	7.975	83	22595	5.568	ug/l	87
26) Cyclohexane	8.275	56	21468	5.899	ug/l #	91
29) 1,1-Dichloropropene	8.375	75	14931	4.513	ug/l	64
30) 2-Butanone	7.487	43	38602	21.613	ug/l	94
31) 2,2-Dichloropropane	7.492	77	12810m	3.729	ug/l	
32) 1,1,1-Trichloroethane	8.175	97	18431	4.490	ug/l	94
33) Carbon Tetrachloride	8.369	117	15498	4.376	ug/l #	80
34) Benzene	8.616	78	57780	5.683	ug/l #	81
35) Methacrylonitrile	7.792	41	8944	4.355	ug/l	82
36) 1,2-Dichloroethane	8.669	62	17183	4.407	ug/l #	87
37) Trichloroethene	9.357	130	7420	3.565	ug/l	89
38) Methylcyclohexane	9.604	83	12221	3.337	ug/l	87
39) 1,2-Dichloropropane	9.628	63	9586	3.951	ug/l	98
40) Dibromomethane	9.710	93	6372	3.992	ug/l #	29
41) Bromodichloromethane	9.892	83	11409	3.400	ug/l	86
42) Vinyl Acetate	6.616	43	144785m	24.937	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	16571	4.551	ug/l	95
44) Isopropyl Acetate	8.692	43	28868	4.819	ug/l	98
45) 1,4-Dioxane	9.698	88	3522	72.121	ug/l #	64
46) Methyl methacrylate	9.686	41	10740	3.718	ug/l	83
47) n-amyl Acetate	12.498	43	19065	3.744	ug/l	93
48) t-1,3-Dichloropropene	10.839	75	11133	3.295	ug/l	100
49) cis-1,3-Dichloropropene	10.316	75	13252	3.549	ug/l #	84
50) 1,1,2-Trichloroethane	11.022	97	8569	3.953	ug/l #	94
51) Ethyl methacrylate	10.875	69	10818	3.143	ug/l	87
52) 1,3-Dichloropropane	11.163	76	15737	3.895	ug/l	97
53) Dibromochloromethane	11.357	129	7091	3.148	ug/l	86
54) 1,2-Dibromoethane	11.474	107	7497	3.418	ug/l	97
55) 2-Chloroethyl vinyl ether	10.163	63	31149	19.812	ug/l	98
56) Bromoform	12.574	173	4278	2.949	ug/l #	72
58) 4-Methyl-2-Pentanone	10.451	43	71089	27.269	ug/l #	90
59) 2-Hexanone	11.198	43	49664	26.202	ug/l	92
61) Tetrachloroethene	11.110	164	5215	4.375	ug/l #	84
62) Toluene	10.633	91	36309	5.251	ug/l	98
64) Chlorobenzene	11.898	112	19924	4.974	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.957	131	7146	4.706	ug/l	95
66) Ethyl Benzene	11.969	91	36249	4.782	ug/l	96
67) m/p-Xylenes	12.074	106	27177	9.556	ug/l	97
68) o-Xylene	12.404	106	13328	4.757	ug/l	91
69) Styrene	12.416	104	19607	4.409	ug/l	96
70) Isopropylbenzene	12.704	105	38382	5.112	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.939	83	18690	7.140	ug/l	89
72) 1,2,3-Trichloropropane	12.998	75	17147m	7.193	ug/l	
73) Bromobenzene	12.980	156	12390	6.954	ug/l	100
74) n-propylbenzene	13.039	91	61857	6.423	ug/l	98
75) 2-Chlorotoluene	13.127	91	40007	6.604	ug/l	96
76) 1,3,5-Trimethylbenzene	13.174	105	45074	6.429	ug/l	98
77) t-1,4-Dichloro-2-butene	12.733	75	3970	5.505	ug/l	87
78) 4-Chlorotoluene	13.227	91	42469	6.973	ug/l	97
79) tert-butylbenzene	13.439	119	38010	6.387	ug/l	94
80) 1,2,4-Trimethylbenzene	13.486	105	43920	6.352	ug/l	94
81) sec-Butylbenzene	13.616	105	52655	6.319	ug/l	98
82) p-Isopropyltoluene	13.733	119	38583	5.762	ug/l	97
83) 1,3-Dichlorobenzene	13.739	146	20988	6.369	ug/l	94
84) 1,4-Dichlorobenzene	13.810	146	22512	6.847	ug/l	97
85) n-Butylbenzene	14.057	91	43883	7.058	ug/l	97
86) Hexachloroethane	14.333	117	8740	6.723	ug/l	99
87) 1,2-Dichlorobenzene	14.110	146	29272	8.092	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.715	75	2496m	4.678	ug/l	
89) 1,2,4-Trichlorobenzene	15.398	180	5944m	3.940	ug/l	
90) Hexachlorobutadiene	15.510	225	2613m	3.585	ug/l	
91) Naphthalene	15.645	128	19677	3.823	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.845	180	6035	4.008	ug/l	98

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

