

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070028.D
 Acq On : 13 Dec 2021 11:35
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 13 13:24:14 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 13 13:20:37 2021
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/14/2021
 Supervised By : Amit Patel 12/15/2021

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

Internal Standards						
1) Bromochloromethane	7.659	128	170678	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	966235	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	914637	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	459368	31.033	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.433%			
60) 4-Bromofluorobenzene	12.731	95	463306	31.654	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.500%			
63) Toluene-d8	10.441	98	1242348	29.418	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.067%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	1352068	107.205	ug/l	98
3) Chloromethane	2.303	50	1486813	113.067	ug/l	97
4) Vinyl Chloride	2.448	62	1409385	105.701	ug/l	100
5) Bromomethane	2.842	94	747747	87.564	ug/l	99
6) Chloroethane	3.014	64	805203	95.715	ug/l	96
7) Trichlorofluoromethane	3.376	101	1811057	92.668	ug/l	97
8) Diethyl Ether	3.824	74	721744	116.994	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.210	101	1066371	117.916	ug/l #	71
10) 1,1-Dichloroethene	4.178	96	1021473	119.760	ug/l	84
11) Methyl Iodide	4.420	142	1482067	124.713	ug/l	97
12) Methyl Acetate	4.854	43	2580223	105.041	ug/l #	89
13) Acrolein	4.039	56	1009490	1494.726	ug/l	100
14) Acrylonitrile	5.554	53	3773183	563.025	ug/l	99
15) Acetone	4.285	58	1320768	591.461	ug/l	76
16) Carbon Disulfide	4.527	76	3080280	144.479	ug/l	98
17) Allyl chloride	4.841	41	2364406	130.426	ug/l	88
18) Methylene Chloride	5.095	84	1220495	112.323	ug/l #	86
19) trans-1,2-Dichloroethene	5.597	96	1089486	116.400	ug/l #	83
20) Diisopropyl ether	6.498	45	4493419	115.676	ug/l #	93
21) 1,1-Dichloroethane	6.388	63	2337155	118.596	ug/l	98
22) cis-1,2-Dichloroethene	7.327	96	1305464	112.456	ug/l	89
23) tert-Butyl Alcohol	5.374	59	1155602	495.469	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	3753885	109.818	ug/l	95
25) Chloroform	7.818	83	2295293	112.647	ug/l	99
26) Cyclohexane	8.094	56	2189501	117.021	ug/l #	85
29) 1,1-Dichloropropene	8.223	75	1736600	117.739	ug/l	95
30) 2-Butanone	7.335	43	6131566	574.325	ug/l #	91
31) 2,2-Dichloropropane	7.327	77	1869274	119.879	ug/l	96
32) 1,1,1-Trichloroethane	8.013	97	2018043	117.200	ug/l	94
33) Carbon Tetrachloride	8.206	117	1784397	125.473	ug/l	99
34) Benzene	8.461	78	5064129	112.903	ug/l	100
35) Methacrylonitrile	7.638	41	1155532	118.010	ug/l	89
36) 1,2-Dichloroethane	8.531	62	1989989	115.079	ug/l	98
37) Trichloroethene	9.218	130	1222697	112.835	ug/l	93
38) Methylcyclohexane	9.459	83	2119064	116.125	ug/l	88
39) 1,2-Dichloropropane	9.488	63	1369447	115.279	ug/l	99
40) Dibromomethane	9.577	93	892007	112.118	ug/l	95
41) Bromodichloromethane	9.762	83	1899969	127.230	ug/l	95
42) Vinyl Acetate	6.434	43	18385894	609.389	ug/l #	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	2172398	109.800	ug/l	97
44) Isopropyl Acetate	8.560	43	3523471	114.230	ug/l	95
45) 1,4-Dioxane	9.569	88	482517	1927.058	ug/l #	85
46) Methyl methacrylate	9.561	41	1767688	124.431	ug/l	82
47) n-amyl Acetate	12.388	43	2752742	116.215	ug/l	97
48) t-1,3-Dichloropropene	10.717	75	2054060	128.170	ug/l	99
49) cis-1,3-Dichloropropene	10.188	75	2179707	124.990	ug/l	94
50) 1,1,2-Trichloroethane	10.896	97	1235142	109.325	ug/l	97
51) Ethyl methacrylate	10.760	69	2144675	113.224	ug/l	89
52) 1,3-Dichloropropane	11.044	76	2185193	111.974	ug/l	99
53) Dibromochloromethane	11.237	129	1401685	129.833	ug/l	100
54) 1,2-Dibromoethane	11.344	107	1307021	111.706	ug/l	97
55) 2-Chloroethyl vinyl ether	10.041	63	2132573	494.958	ug/l	96
56) Bromoform	12.457	173	1090275	140.829	ug/l #	99
58) 4-Methyl-2-Pentanone	10.331	43	11346583	565.153	ug/l #	95
59) 2-Hexanone	11.084	43	8549821	559.839	ug/l	95
61) Tetrachloroethene	10.977	164	1065732	108.562	ug/l	93
62) Toluene	10.505	91	5505234	109.533	ug/l	98
64) Chlorobenzene	11.771	112	3322349	110.177	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.841	131	1258925	118.586	ug/l	99
66) Ethyl Benzene	11.843	91	6310586	113.435	ug/l	100
67) m/p-Xylenes	11.953	106	4623019	223.736	ug/l	95
68) o-Xylene	12.280	106	2302259	111.279	ug/l	94
69) Styrene	12.294	104	3829491	114.171	ug/l	96
70) Isopropylbenzene	12.578	105	6090047	112.556	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	1951054	109.278	ug/l	98
72) 1,2,3-Trichloropropane	12.878	75	1798727m	103.419	ug/l	
73) Bromobenzene	12.860	156	1402347	112.434	ug/l	91
74) n-propylbenzene	12.919	91	7173679	115.444	ug/l	99
75) 2-Chlorotoluene	13.007	91	4301217	113.706	ug/l	96
76) 1,3,5-Trimethylbenzene	13.058	105	5029593	113.256	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	642229	136.792	ug/l	93
78) 4-Chlorotoluene	13.104	91	4214918	116.352	ug/l	94
79) tert-butylbenzene	13.324	119	4356799	111.526	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	4886682m	112.801	ug/l	
81) sec-Butylbenzene	13.501	105	6221140	113.819	ug/l	99
82) p-Isopropyltoluene	13.616	119	5018056	115.062	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	2442697	114.547	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	2384605	115.266	ug/l	98
85) n-Butylbenzene	13.943	91	4417730	121.369	ug/l	99
86) Hexachloroethane	14.211	117	978615	135.584	ug/l	87
87) 1,2-Dichlorobenzene	13.989	146	2328145	113.122	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	406012	129.906	ug/l	97
89) 1,2,4-Trichlorobenzene	15.263	180	1203339	121.943	ug/l	98
90) Hexachlorobutadiene	15.370	225	631899	118.415	ug/l	99
91) Naphthalene	15.504	128	3356321	118.068	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	1134856	116.984	ug/l	99

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

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