

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070025.D
 Acq On : 13 Dec 2021 10:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

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

Quant Time: Dec 13 13:12:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 13 13:11:03 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	179837	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	985510	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.744	117	878830	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	476750	30.567	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.900%			
60) 4-Bromofluorobenzene	12.731	95	405675	28.846	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.167%			
63) Toluene-d8	10.440	98	1254133	30.907	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	53331	4.013	ug/l	97
3) Chloromethane	2.306	50	71156	5.136	ug/l	99
4) Vinyl Chloride	2.451	62	67015	4.770	ug/l	99
5) Bromomethane	2.864	94	38029	4.227	ug/l	91
6) Chloroethane	3.030	64	39092	4.410	ug/l	99
7) Trichlorofluoromethane	3.384	101	89233	4.333	ug/l	97
8) Diethyl Ether	3.827	74	36321	5.588	ug/l	78
9) 1,1,2-Trichlorotrifluo...	4.215	101	53365	5.600	ug/l	# 49
10) 1,1-Dichloroethene	4.189	96	49591	5.518	ug/l	91
11) Methyl Iodide	4.427	142	63508	5.072	ug/l	97
12) Methyl Acetate	4.859	43	117745	4.549	ug/l	# 84
13) Acrolein	4.041	56	53894	75.735	ug/l	98
14) Acrylonitrile	5.559	53	168749	23.898	ug/l	99
15) Acetone	4.288	58	55890	23.754	ug/l	69
16) Carbon Disulfide	4.532	76	150533	6.701	ug/l	96
17) Allyl chloride	4.840	41	106732	5.588	ug/l	86
18) Methylene Chloride	5.092	84	63502	5.546	ug/l	# 89
19) trans-1,2-Dichloroethene	5.599	96	52617	5.335	ug/l	# 83
20) Diisopropyl ether	6.500	45	204618	4.999	ug/l	# 92
21) 1,1-Dichloroethane	6.390	63	112937	5.439	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	62084	5.076	ug/l	89
23) tert-Butyl Alcohol	5.371	59	59266m	24.116	ug/l	
24) Methyl tert-Butyl Ether	5.618	73	163437	4.538	ug/l	91
25) Chloroform	7.820	83	115583	5.384	ug/l	97
26) Cyclohexane	8.096	56	100232	5.084	ug/l	# 84
29) 1,1-Dichloropropene	8.220	75	81567	5.422	ug/l	94
30) 2-Butanone	7.337	43	253785	23.306	ug/l	# 90
31) 2,2-Dichloropropane	7.327	77	82403	5.181	ug/l	# 83
32) 1,1,1-Trichloroethane	8.016	97	95208	5.421	ug/l	# 92
33) Carbon Tetrachloride	8.206	117	84972	5.858	ug/l	93
34) Benzene	8.458	78	248115	5.423	ug/l	# 77
35) Methacrylonitrile	7.635	41	49941m	5.001	ug/l	
36) 1,2-Dichloroethane	8.531	62	98219	5.569	ug/l	98
37) Trichloroethene	9.215	130	58088	5.256	ug/l	85
38) Methylcyclohexane	9.459	83	93686	5.034	ug/l	88
39) 1,2-Dichloropropane	9.491	63	64642	5.335	ug/l	99
40) Dibromomethane	9.579	93	43398	5.348	ug/l	94
41) Bromodichloromethane	9.762	83	91361	5.998	ug/l	99
42) Vinyl Acetate	6.433	43	754054	24.504	ug/l	# 93

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43) Ethyl Acetate	7.415	43	89329	4.427	ug/l	94
44) Isopropyl Acetate	8.560	43	142896	4.542	ug/l	99
45) 1,4-Dioxane	9.574	88	20132	78.830	ug/l #	82
46) Methyl methacrylate	9.558	41	61359	4.235	ug/l	77
47) n-amyl Acetate	12.390	43	74611	3.088	ug/l	99
48) t-1,3-Dichloropropene	10.717	75	78678	4.813	ug/l	99
49) cis-1,3-Dichloropropene	10.185	75	90261	5.075	ug/l	97
50) 1,1,2-Trichloroethane	10.896	97	57592	4.998	ug/l	97
51) Ethyl methacrylate	10.759	69	75750	3.921	ug/l	90
52) 1,3-Dichloropropane	11.044	76	101116	5.080	ug/l	98
53) Dibromochloromethane	11.237	129	63342	5.752	ug/l	99
54) 1,2-Dibromoethane	11.347	107	55036	4.612	ug/l	97
55) 2-Chloroethyl vinyl ether	10.041	63	60391	13.742	ug/l	97
56) Bromoform	12.460	173	46105	5.839	ug/l #	98
58) 4-Methyl-2-Pentanone	10.330	43	455266	23.600	ug/l #	93
59) 2-Hexanone	11.087	43	307129	20.930	ug/l	91
61) Tetrachloroethene	10.977	164	54515	5.779	ug/l	95
62) Toluene	10.505	91	261178	5.408	ug/l	99
64) Chlorobenzene	11.768	112	151234	5.220	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.838	131	55723	5.463	ug/l	98
66) Ethyl Benzene	11.846	91	269992	5.051	ug/l	98
67) m/p-Xylenes	11.956	106	194277	9.785	ug/l	94
68) o-Xylene	12.280	106	94993	4.779	ug/l	92
69) Styrene	12.294	104	145477	4.514	ug/l	97
70) Isopropylbenzene	12.578	105	245253	4.717	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	87421	5.096	ug/l	98
72) 1,2,3-Trichloropropane	12.878	75	81793m	4.894	ug/l	
73) Bromobenzene	12.862	156	58672	4.896	ug/l	92
74) n-propylbenzene	12.921	91	273613	4.583	ug/l	97
75) 2-Chlorotoluene	13.007	91	176203	4.848	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	199640	4.679	ug/l	99
77) t-1,4-Dichloro-2-butene	12.623	75	19434	4.308	ug/l	87
78) 4-Chlorotoluene	13.106	91	159662	4.587	ug/l	94
79) tert-butylbenzene	13.323	119	177052	4.717	ug/l	100
80) 1,2,4-Trimethylbenzene	13.369	105	189501m	4.553	ug/l	
81) sec-Butylbenzene	13.500	105	232595	4.429	ug/l	99
82) p-Isopropyltoluene	13.616	119	175766	4.194	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	93254	4.551	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	86719	4.363	ug/l	98
85) n-Butylbenzene	13.943	91	133938	3.830	ug/l	99
86) Hexachloroethane	14.208	117	39388	5.679	ug/l	91
87) 1,2-Dichlorobenzene	13.989	146	91102	4.607	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.603	75	14139	4.708	ug/l	89
89) 1,2,4-Trichlorobenzene	15.265	180	30751	3.243	ug/l	98
90) Hexachlorobutadiene	15.367	225	26593	5.186	ug/l	96
91) Naphthalene	15.509	128	62687	2.295	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	28226	3.028	ug/l	98

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

