

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062322\
 Data File : VN073066.D
 Acq On : 23 Jun 2022 23:58
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2022
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 04:20:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:19:33 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.586	128	41209	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	238388	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	211889	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	121840	26.826	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.433%	#	
60) 4-Bromofluorobenzene	12.668	95	117241	27.283	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.933%		
63) Toluene-d8	10.374	98	348617	29.930	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	69368	21.918	ug/l	92
3) Chloromethane	2.269	50	62797	18.901	ug/l	94
4) Vinyl Chloride	2.410	62	57819	19.293	ug/l	98
5) Bromomethane	2.816	94	22907	15.382	ug/l	91
6) Chloroethane	2.975	64	36418	18.675	ug/l	94
7) Trichlorofluoromethane	3.322	101	100193	18.656	ug/l	95
8) Diethyl Ether	3.769	74	42022	19.873	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.151	101	55645	19.458	ug/l #	68
10) 1,1-Dichloroethene	4.122	96	56974	20.654	ug/l	97
11) Methyl Iodide	4.357	142	49019	18.492	ug/l	86
12) Methyl Acetate	4.787	43	117638	20.651	ug/l	93
13) Acrolein	3.987	56	61794	118.037	ug/l	96
14) Acrylonitrile	5.481	53	226078	99.245	ug/l	97
15) Acetone	4.228	58	64661	103.674	ug/l	91
16) Carbon Disulfide	4.463	76	144541	20.610	ug/l	98
17) Allyl chloride	4.763	41	104309	18.147	ug/l	84
18) Methylene Chloride	5.022	84	67131	19.757	ug/l	93
19) trans-1,2-Dichloroethene	5.516	96	59970	20.404	ug/l	95
20) Diisopropyl ether	6.410	45	224256	19.520	ug/l	97
21) 1,1-Dichloroethane	6.304	63	117709	18.510	ug/l	99
22) cis-1,2-Dichloroethene	7.245	96	70379	19.317	ug/l	98
23) tert-Butyl Alcohol	5.287	59	88580	86.698	ug/l #	100
24) Methyl tert-Butyl Ether	5.540	73	212721	18.068	ug/l	98
25) Chloroform	7.751	83	118155	18.223	ug/l	99
26) Cyclohexane	8.022	56	103071	19.279	ug/l #	95
29) 1,1-Dichloropropene	8.151	75	83012	18.422	ug/l	99
30) 2-Butanone	7.263	43	332258	100.325	ug/l	93
31) 2,2-Dichloropropane	7.245	77	43108m	8.013	ug/l	
32) 1,1,1-Trichloroethane	7.945	97	102837	17.694	ug/l	96
33) Carbon Tetrachloride	8.133	117	86820	17.358	ug/l	95
34) Benzene	8.386	78	269285	19.912	ug/l	96
35) Methacrylonitrile	7.563	41	59810	18.549	ug/l	95
36) 1,2-Dichloroethane	8.463	62	98362	17.767	ug/l	98
37) Trichloroethene	9.151	130	64035	19.630	ug/l	98
38) Methylcyclohexane	9.392	83	100513	18.625	ug/l	93
39) 1,2-Dichloropropane	9.428	63	68475	18.700	ug/l	98
40) Dibromomethane	9.510	93	46632	18.565	ug/l	94
41) Bromodichloromethane	9.698	83	90499	17.202	ug/l	99
42) Vinyl Acetate	6.351	43	1005860	94.730	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.339	43	132594	20.799	ug/l	95
44) Isopropyl Acetate	8.492	43	186233	18.117	ug/l	98
45) 1,4-Dioxane	9.504	88	33835	395.718	ug/l	90
46) Methyl methacrylate	9.492	41	83390	18.055	ug/l	83
47) n-amyl Acetate	12.327	43	143920	17.998	ug/l	99
48) t-1,3-Dichloropropene	10.657	75	82664	14.139	ug/l	100
49) cis-1,3-Dichloropropene	10.127	75	91664	15.266	ug/l	98
50) 1,1,2-Trichloroethane	10.833	97	67399	18.997	ug/l	98
51) Ethyl methacrylate	10.698	69	111772	17.573	ug/l	89
52) 1,3-Dichloropropane	10.980	76	113606	18.186	ug/l	99
53) Dibromochloromethane	11.174	129	65935	17.127	ug/l	99
54) 1,2-Dibromoethane	11.280	107	69244	18.562	ug/l	97
55) 2-Chloroethyl vinyl ether	9.980	63	247462	95.832	ug/l	99
56) Bromoform	12.398	173	46509	17.167	ug/l #	98
58) 4-Methyl-2-Pentanone	10.269	43	629017	99.229	ug/l	97
59) 2-Hexanone	11.022	43	476271	98.792	ug/l	98
61) Tetrachloroethene	10.916	164	53905	20.454	ug/l	95
62) Toluene	10.439	91	284410	19.788	ug/l	98
64) Chlorobenzene	11.704	112	167608	19.230	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.774	131	63176	18.693	ug/l	98
66) Ethyl Benzene	11.780	91	303817	18.645	ug/l	99
67) m/p-Xylenes	11.892	106	230122	38.357	ug/l	97
68) o-Xylene	12.216	106	117017	19.198	ug/l	100
69) Styrene	12.233	104	184900	18.939	ug/l	98
70) Isopropylbenzene	12.516	105	296730	18.677	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.763	83	102352	19.024	ug/l	98
72) 1,2,3-Trichloropropane	12.816	75	81411m	18.043	ug/l	
73) Bromobenzene	12.798	156	67590	20.414	ug/l	91
74) n-propylbenzene	12.857	91	324923	17.886	ug/l	100
75) 2-Chlorotoluene	12.939	91	207826	18.379	ug/l	95
76) 1,3,5-Trimethylbenzene	12.998	105	243176	18.600	ug/l	98
77) t-1,4-Dichloro-2-butene	12.563	75	22484	12.157	ug/l	94
78) 4-Chlorotoluene	13.039	91	197237	18.443	ug/l	96
79) tert-butylbenzene	13.257	119	215569	18.529	ug/l	97
80) 1,2,4-Trimethylbenzene	13.304	105	240203m	15.703	ug/l	
81) sec-Butylbenzene	13.439	105	287342	18.216	ug/l	99
82) p-Isopropyltoluene	13.551	119	233055	18.371	ug/l	98
83) 1,3-Dichlorobenzene	13.551	146	119342	20.351	ug/l	97
84) 1,4-Dichlorobenzene	13.627	146	118598	20.772	ug/l	99
85) n-Butylbenzene	13.874	91	176351	16.648	ug/l	96
86) Hexachloroethane	14.145	117	43541	16.112	ug/l	94
87) 1,2-Dichlorobenzene	13.921	146	124837	21.338	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.539	75	25452	18.799	ug/l	94
89) 1,2,4-Trichlorobenzene	15.192	180	61453	20.793	ug/l	96
90) Hexachlorobutadiene	15.298	225	25296	19.701	ug/l	97
91) Naphthalene	15.427	128	248667	21.013	ug/l	99
92) 1,2,3-Trichlorobenzene	15.621	180	63640	21.046	ug/l	98

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

