

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072496.D
 Acq On : 16 May 2022 12:40
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/17/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 16 13:20:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 16 13:19:02 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	24423	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	137069	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	128425	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	89578	40.406	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 134.700%#			
60) 4-Bromofluorobenzene	12.727	95	73599	34.674	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 115.567%#			
63) Toluene-d8	10.439	98	215053	34.107	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 113.700%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.075	85	43232	28.943	ug/l	95
3) Chloromethane	2.299	50	38720	23.998	ug/l	93
4) Vinyl Chloride	2.446	62	32723	19.380	ug/l	97
5) Bromomethane	2.828	94	22936	22.809	ug/l	98
6) Chloroethane	2.999	64	20926	19.502	ug/l	90
7) Trichlorofluoromethane	3.369	101	78812	30.986	ug/l	96
8) Diethyl Ether	3.822	74	22965	24.760	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.210	101	37185	27.000	ug/l #	66
10) 1,1-Dichloroethene	4.187	96	32048	24.616	ug/l #	79
11) Methyl Iodide	4.416	142	47961	25.091	ug/l	96
12) Methyl Acetate	4.857	43	54069	27.461	ug/l #	87
13) Acrolein	4.040	56	40863	167.927	ug/l	98
14) Acrylonitrile	5.551	53	108442	127.764	ug/l	60
15) Acetone	4.281	58	28814	122.256	ug/l	77
16) Carbon Disulfide	4.522	76	84330	24.684	ug/l	98
17) Allyl chloride	4.834	41	57737	26.311	ug/l	95
18) Methylene Chloride	5.093	84	39052	24.796	ug/l	96
19) trans-1,2-Dichloroethene	5.598	96	35702	25.258	ug/l	94
20) Diisopropyl ether	6.487	45	121613	26.563	ug/l	98
21) 1,1-Dichloroethane	6.387	63	72688	26.216	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	41383	24.471	ug/l	92
23) tert-Butyl Alcohol	5.375	59	46799m	142.558	ug/l	
24) Methyl tert-Butyl Ether	5.610	73	133284	26.977	ug/l	100
25) Chloroform	7.810	83	79409	27.725	ug/l	96
26) Cyclohexane	8.098	56	59280	25.392	ug/l #	100
29) 1,1-Dichloropropene	8.222	75	53514	25.544	ug/l	98
30) 2-Butanone	7.328	43	159522	133.260	ug/l	96
31) 2,2-Dichloropropane	7.322	77	65190	26.597	ug/l	96
32) 1,1,1-Trichloroethane	8.010	97	76869	29.043	ug/l	100
33) Carbon Tetrachloride	8.204	117	71092	30.611	ug/l	95
34) Benzene	8.457	78	156326	24.525	ug/l	93
35) Methacrylonitrile	7.634	41	32110	27.501	ug/l	93
36) 1,2-Dichloroethane	8.522	62	73662	29.461	ug/l #	90
37) Trichloroethene	9.210	130	42019	25.060	ug/l	90
38) Methylcyclohexane	9.457	83	62463	24.334	ug/l	94
39) 1,2-Dichloropropane	9.486	63	40055	24.890	ug/l	95
40) Dibromomethane	9.575	93	30662	26.917	ug/l	90
41) Bromodichloromethane	9.757	83	62801	27.248	ug/l	97
42) Vinyl Acetate	6.428	43	538097	131.832	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	59571	26.103	ug/l	98
44) Isopropyl Acetate	8.557	43	97869	26.085	ug/l	99
45) 1,4-Dioxane	9.569	88	19185	520.771	ug/l	94
46) Methyl methacrylate	9.551	41	42870	26.084	ug/l	86
47) n-amyl Acetate	12.386	43	61164	25.025	ug/l	97
48) t-1,3-Dichloropropene	10.716	75	64251	26.052	ug/l	98
49) cis-1,3-Dichloropropene	10.186	75	66835	25.357	ug/l	98
50) 1,1,2-Trichloroethane	10.892	97	40997	25.076	ug/l	96
51) Ethyl methacrylate	10.757	69	62241	24.575	ug/l	95
52) 1,3-Dichloropropane	11.039	76	71363	25.377	ug/l	100
53) Dibromochloromethane	11.233	129	50643	27.928	ug/l	96
54) 1,2-Dibromoethane	11.339	107	42635	25.153	ug/l	98
55) 2-Chloroethyl vinyl ether	10.039	63	72605	113.361	ug/l	99
56) Bromoform	12.451	173	35536	26.203	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	308743	132.641	ug/l	98
59) 2-Hexanone	11.080	43	225922	132.489	ug/l	98
61) Tetrachloroethene	10.974	164	39730	26.516	ug/l	85
62) Toluene	10.504	91	175406	24.590	ug/l	96
64) Chlorobenzene	11.763	112	106083	24.078	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	46111	26.951	ug/l	97
66) Ethyl Benzene	11.839	91	195440	24.867	ug/l	99
67) m/p-Xylenes	11.951	106	147903	48.993	ug/l	94
68) o-Xylene	12.280	106	73117	24.293	ug/l	95
69) Styrene	12.292	104	114150	24.093	ug/l	96
70) Isopropylbenzene	12.574	105	193306	25.253	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.821	83	61133	24.923	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	58335m	26.833	ug/l	
73) Bromobenzene	12.857	156	45650	24.492	ug/l	99
74) n-propylbenzene	12.916	91	204085	24.623	ug/l	98
75) 2-Chlorotoluene	13.004	91	137873	25.880	ug/l	93
76) 1,3,5-Trimethylbenzene	13.057	105	164304	26.254	ug/l	100
77) t-1,4-Dichloro-2-butene	12.621	75	16338	22.541	ug/l	88
78) 4-Chlorotoluene	13.104	91	124319	25.221	ug/l	95
79) tert-butylbenzene	13.321	119	143672	25.682	ug/l	99
80) 1,2,4-Trimethylbenzene	13.363	105	158144m	25.969	ug/l	
81) sec-Butylbenzene	13.498	105	186744	25.051	ug/l	98
82) p-Isopropyltoluene	13.610	119	154746	25.365	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	76092	24.788	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	73879	25.053	ug/l	99
85) n-Butylbenzene	13.939	91	105272	23.666	ug/l	99
86) Hexachloroethane	14.204	117	27199	24.364	ug/l	83
87) 1,2-Dichlorobenzene	13.986	146	76971	25.816	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	13651	28.408	ug/l	98
89) 1,2,4-Trichlorobenzene	15.262	180	30477	22.868	ug/l	99
90) Hexachlorobutadiene	15.362	225	22047	26.587	ug/l	99
91) Naphthalene	15.504	128	86525	23.094	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	32158	24.130	ug/l	97

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

