

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070155.D
 Acq On : 17 Dec 2021 10:58
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/18/2021
 Supervised By : Mahesh Dadoda 12/23/2021

Quant Time: Dec 18 05:28:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	189358	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1095820	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	988661	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	519530	30.959	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.200%			
60) 4-Bromofluorobenzene	12.731	95	483490	29.720	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.067%			
63) Toluene-d8	10.441	98	1388752	30.397	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	270399	19.677	ug/l	97
3) Chloromethane	2.303	50	313856	19.940	ug/l	93
4) Vinyl Chloride	2.446	62	279258	18.855	ug/l	99
5) Bromomethane	2.864	94	162161	20.030	ug/l	94
6) Chloroethane	3.022	64	162989	19.167	ug/l	99
7) Trichlorofluoromethane	3.374	101	350243	18.114	ug/l	99
8) Diethyl Ether	3.821	74	148606	19.370	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.202	101	219784	19.352	ug/l #	70
10) 1,1-Dichloroethene	4.178	96	202184	18.716	ug/l	88
11) Methyl Iodide	4.417	142	272119	18.002	ug/l	95
12) Methyl Acetate	4.857	43	579212m	21.767	ug/l	
13) Acrolein	4.039	56	216145	100.350	ug/l	98
14) Acrylonitrile	5.557	53	793375	103.262	ug/l	99
15) Acetone	4.291	58	322391	115.639	ug/l	75
16) Carbon Disulfide	4.527	76	518808	15.939	ug/l	97
17) Allyl chloride	4.838	41	461258	18.986	ug/l	85
18) Methylene Chloride	5.095	84	248927	19.116	ug/l #	83
19) trans-1,2-Dichloroethene	5.594	96	218695	19.060	ug/l #	83
20) Diisopropyl ether	6.498	45	933392	20.060	ug/l #	94
21) 1,1-Dichloroethane	6.388	63	470258	19.172	ug/l	98
22) cis-1,2-Dichloroethene	7.324	96	259090	19.078	ug/l	89
23) tert-Butyl Alcohol	5.388	59	278360	114.611	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	797719	20.795	ug/l	96
25) Chloroform	7.818	83	461164	18.923	ug/l	100
26) Cyclohexane	8.094	56	449492	19.797	ug/l #	80
29) 1,1-Dichloropropene	8.220	75	343328	18.196	ug/l	95
30) 2-Butanone	7.340	43	1399934	107.840	ug/l #	90
31) 2,2-Dichloropropane	7.327	77	368631	18.683	ug/l	96
32) 1,1,1-Trichloroethane	8.013	97	378730	17.331	ug/l	94
33) Carbon Tetrachloride	8.206	117	312385	16.082	ug/l	99
34) Benzene	8.461	78	1028054	18.430	ug/l #	94
35) Methacrylonitrile	7.641	41	231682	19.294	ug/l	89
36) 1,2-Dichloroethane	8.531	62	405041	18.394	ug/l	98
37) Trichloroethene	9.218	130	235246	17.731	ug/l	92
38) Methylcyclohexane	9.462	83	412055	18.372	ug/l	87
39) 1,2-Dichloropropane	9.491	63	275428	18.520	ug/l	100
40) Dibromomethane	9.580	93	174087	17.746	ug/l	96
41) Bromodichloromethane	9.762	83	333410	16.073	ug/l	94
42) Vinyl Acetate	6.436	43	3685261	96.640	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	459263	20.368	ug/l	96
44) Isopropyl Acetate	8.563	43	713623	19.662	ug/l	95
45) 1,4-Dioxane	9.572	88	117946	459.221	ug/l #	84
46) Methyl methacrylate	9.561	41	331812	19.303	ug/l	80
47) n-amyl Acetate	12.388	43	481390	19.019	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	350679	16.808	ug/l	100
49) cis-1,3-Dichloropropene	10.188	75	389425	17.199	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	246806	18.509	ug/l	97
51) Ethyl methacrylate	10.762	69	408391	19.163	ug/l	88
52) 1,3-Dichloropropane	11.044	76	433679	18.369	ug/l	100
53) Dibromochloromethane	11.240	129	225687	15.067	ug/l	99
54) 1,2-Dibromoethane	11.347	107	249965	18.399	ug/l	97
55) 2-Chloroethyl vinyl ether	10.044	63	537056	128.547	ug/l	96
56) Bromoform	12.460	173	155720	13.655	ug/l #	99
58) 4-Methyl-2-Pentanone	10.331	43	2367936	104.352	ug/l	95
59) 2-Hexanone	11.087	43	1857696	110.736	ug/l	95
61) Tetrachloroethene	10.977	164	216249	18.728	ug/l	92
62) Toluene	10.505	91	1095803	18.846	ug/l	99
64) Chlorobenzene	11.771	112	636317	18.440	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.841	131	221902	17.073	ug/l	99
66) Ethyl Benzene	11.846	91	1207703	18.683	ug/l	99
67) m/p-Xylenes	11.953	106	881384	37.321	ug/l	93
68) o-Xylene	12.280	106	438894	18.783	ug/l	94
69) Styrene	12.294	104	692656	18.187	ug/l	97
70) Isopropylbenzene	12.581	105	1158973	18.904	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	388211	19.307	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	380516m	20.336	ug/l	
73) Bromobenzene	12.862	156	259366	18.229	ug/l	90
74) n-propylbenzene	12.921	91	1300535	18.301	ug/l	98
75) 2-Chlorotoluene	13.007	91	806913	18.557	ug/l	96
76) 1,3,5-Trimethylbenzene	13.061	105	930827	18.480	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	92952	15.798	ug/l	83
78) 4-Chlorotoluene	13.106	91	759421	18.212	ug/l	94
79) tert-butylbenzene	13.324	119	811305	18.559	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	906554m	18.612	ug/l	
81) sec-Butylbenzene	13.503	105	1111621	18.224	ug/l	99
82) p-Isopropyltoluene	13.616	119	893407	18.384	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	439917	18.282	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	418055	18.061	ug/l	98
85) n-Butylbenzene	13.943	91	702449	17.301	ug/l	98
86) Hexachloroethane	14.211	117	136292	14.058	ug/l	85
87) 1,2-Dichlorobenzene	13.989	146	434837	18.810	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	69411	18.046	ug/l	93
89) 1,2,4-Trichlorobenzene	15.265	180	206480	19.199	ug/l	97
90) Hexachlorobutadiene	15.370	225	121783	19.026	ug/l	99
91) Naphthalene	15.507	128	599373	23.107	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	207752	20.446	ug/l	98

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

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