

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112321\
 Data File : VN069631.D
 Acq On : 23 Nov 2021 17:21
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/24/2021
 Supervised By : Mahesh Dadoda 11/26/2021

Quant Time: Nov 24 02:27:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	180025	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1035786	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	939495	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	494595	31.678	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.600%			
60) 4-Bromofluorobenzene	12.731	95	450430	29.960	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.867%			
63) Toluene-d8	10.440	98	1333233	30.734	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.433%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	287471	21.610	ug/l	99
3) Chloromethane	2.306	50	303029	21.848	ug/l	97
4) Vinyl Chloride	2.448	62	296776	21.102	ug/l	98
5) Bromomethane	2.867	94	170839	18.967	ug/l	96
6) Chloroethane	3.025	64	176995	19.947	ug/l	96
7) Trichlorofluoromethane	3.379	101	395197	19.172	ug/l	100
8) Diethyl Ether	3.824	74	140483	21.590	ug/l	79
9) 1,1,2-Trichlorotrifluo...	4.213	101	224522m	23.538	ug/l	
10) 1,1-Dichloroethene	4.183	96	192910	21.443	ug/l	87
11) Methyl Iodide	4.417	142	275310	21.964	ug/l	94
12) Methyl Acetate	4.859	43	544693m	21.023	ug/l	
13) Acrolein	4.041	56	76280	107.082	ug/l	98
14) Acrylonitrile	5.557	53	699490	98.957	ug/l	98
15) Acetone	4.288	58	202262	85.873	ug/l	70
16) Carbon Disulfide	4.529	76	458371	20.383	ug/l	98
17) Allyl chloride	4.840	41	400267	20.933	ug/l	90
18) Methylene Chloride	5.098	84	245145	21.389	ug/l	89
19) trans-1,2-Dichloroethene	5.594	96	208060	21.075	ug/l	85
20) Diisopropyl ether	6.498	45	874781	21.351	ug/l #	93
21) 1,1-Dichloroethane	6.385	63	448824	21.593	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	255760	20.888	ug/l	91
23) tert-Butyl Alcohol	5.371	59	209737	85.257	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	755847m	20.964	ug/l	
25) Chloroform	7.817	83	494359	23.002	ug/l	98
26) Cyclohexane	8.096	56	421478	21.357	ug/l #	87
29) 1,1-Dichloropropene	8.222	75	339044	21.443	ug/l	95
30) 2-Butanone	7.337	43	1053156	92.022	ug/l	93
31) 2,2-Dichloropropane	7.324	77	330683	19.783	ug/l	97
32) 1,1,1-Trichloroethane	8.016	97	380540	20.616	ug/l	94
33) Carbon Tetrachloride	8.206	117	314510	20.630	ug/l	96
34) Benzene	8.461	78	1004064	20.882	ug/l #	95
35) Methacrylonitrile	7.638	41	203932	19.428	ug/l	91
36) 1,2-Dichloroethane	8.531	62	396207	21.374	ug/l	98
37) Trichloroethene	9.215	130	240603	20.713	ug/l	92
38) Methylcyclohexane	9.461	83	405487	20.729	ug/l	90
39) 1,2-Dichloropropane	9.488	63	269561	21.168	ug/l	99
40) Dibromomethane	9.577	93	175677	20.598	ug/l	96
41) Bromodichloromethane	9.762	83	326672	20.407	ug/l	96
42) Vinyl Acetate	6.434	43	3313733	102.457	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	407961	19.235	ug/l	99
44) Isopropyl Acetate	8.560	43	646808	19.561	ug/l	97
45) 1,4-Dioxane	9.569	88	90844	338.447	ug/l #	87
46) Methyl methacrylate	9.561	41	296421	19.465	ug/l	83
47) n-amyl Acetate	12.387	43	398332	15.688	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	316799	18.440	ug/l	100
49) cis-1,3-Dichloropropene	10.188	75	372757	19.940	ug/l	93
50) 1,1,2-Trichloroethane	10.899	97	244237	20.166	ug/l	98
51) Ethyl methacrylate	10.762	69	379402	18.685	ug/l	89
52) 1,3-Dichloropropane	11.044	76	431583	20.630	ug/l	99
53) Dibromochloromethane	11.237	129	227902	19.692	ug/l	97
54) 1,2-Dibromoethane	11.347	107	245582	19.579	ug/l	96
55) 2-Chloroethyl vinyl ether	10.041	63	461557	99.931	ug/l	96
56) Bromoform	12.457	173	148510	17.895	ug/l #	100
58) 4-Methyl-2-Pentanone	10.330	43	2105746	102.108	ug/l #	94
59) 2-Hexanone	11.084	43	1440436	91.824	ug/l	94
61) Tetrachloroethene	10.977	164	228326	22.643	ug/l	94
62) Toluene	10.505	91	1103015	21.365	ug/l	99
64) Chlorobenzene	11.771	112	639457	20.645	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.840	131	228065	20.914	ug/l	100
66) Ethyl Benzene	11.843	91	1200252	21.004	ug/l	99
67) m/p-Xylenes	11.953	106	887311	41.806	ug/l	95
68) o-Xylene	12.280	106	432849	20.368	ug/l	94
69) Styrene	12.294	104	689528	20.013	ug/l	97
70) Isopropylbenzene	12.578	105	1129474	20.322	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	374200	20.404	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	293766m	16.443	ug/l	
73) Bromobenzene	12.862	156	259116	20.225	ug/l	93
74) n-propylbenzene	12.921	91	1289319	20.200	ug/l	99
75) 2-Chlorotoluene	13.007	91	793042	20.410	ug/l	97
76) 1,3,5-Trimethylbenzene	13.058	105	934052	20.476	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	73754	15.294	ug/l	75
78) 4-Chlorotoluene	13.104	91	747145	20.079	ug/l	95
79) tert-butylbenzene	13.324	119	807284	20.118	ug/l	98
80) 1,2,4-Trimethylbenzene	13.366	105	897645m	20.172	ug/l	
81) sec-Butylbenzene	13.501	105	1121600	19.977	ug/l	99
82) p-Isopropyltoluene	13.616	119	896603	20.015	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	440751	20.122	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	415522	19.554	ug/l	98
85) n-Butylbenzene	13.943	91	685422	18.333	ug/l	99
86) Hexachloroethane	14.209	117	142640	19.239	ug/l	92
87) 1,2-Dichlorobenzene	13.989	146	423631	20.039	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	56590	17.627	ug/l	94
89) 1,2,4-Trichlorobenzene	15.263	180	164342	16.213	ug/l	99
90) Hexachlorobutadiene	15.370	225	128888	23.514	ug/l	99
91) Naphthalene	15.507	128	361764	12.389	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	159545	16.011	ug/l	100

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

