

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072525.D
 Acq On : 17 May 2022 00:59
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: May 17 07:23:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	24562	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.969	114	131751	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	123169	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	86562	31.320	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.400%			
60) 4-Bromofluorobenzene	12.727	95	71165	29.591	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.633%			
63) Toluene-d8	10.439	98	207607	30.878	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	40616	19.907	ug/l	100
3) Chloromethane	2.299	50	32532	17.654	ug/l	95
4) Vinyl Chloride	2.446	62	30639	19.696	ug/l	99
5) Bromomethane	2.851	94	24944	19.714	ug/l	98
6) Chloroethane	3.016	64	22275	21.927	ug/l	100
7) Trichlorofluoromethane	3.375	101	72919	19.844	ug/l	98
8) Diethyl Ether	3.822	74	19641	17.768	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.204	101	33095m	19.114	ug/l	
10) 1,1-Dichloroethene	4.181	96	29430	18.851	ug/l	96
11) Methyl Iodide	4.422	142	44312	18.848	ug/l	91
12) Methyl Acetate	4.857	43	45870	18.162	ug/l	92
13) Acrolein	4.040	56	31170	78.544	ug/l	99
14) Acrylonitrile	5.557	53	93422	87.673	ug/l	99
15) Acetone	4.287	58	27051m	96.813	ug/l	
16) Carbon Disulfide	4.528	76	74726	18.452	ug/l	98
17) Allyl chloride	4.840	41	47208	16.752	ug/l	89
18) Methylene Chloride	5.093	84	35794	19.370	ug/l	95
19) trans-1,2-Dichloroethene	5.598	96	31861	18.581	ug/l	94
20) Diisopropyl ether	6.492	45	107063	18.275	ug/l	95
21) 1,1-Dichloroethane	6.387	63	66310	18.927	ug/l	96
22) cis-1,2-Dichloroethene	7.322	96	38981	19.362	ug/l	94
23) tert-Butyl Alcohol	5.357	59	36166m	77.377	ug/l	
24) Methyl tert-Butyl Ether	5.616	73	123866	19.340	ug/l	98
25) Chloroform	7.816	83	76187	20.163	ug/l	97
26) Cyclohexane	8.092	56	53697	18.887	ug/l #	100
29) 1,1-Dichloropropene	8.222	75	51097	19.474	ug/l	95
30) 2-Butanone	7.328	43	131068	86.305	ug/l	97
31) 2,2-Dichloropropane	7.322	77	50450	15.498	ug/l	96
32) 1,1,1-Trichloroethane	8.010	97	73825	19.725	ug/l	98
33) Carbon Tetrachloride	8.204	117	66584	20.019	ug/l	91
34) Benzene	8.457	78	143215	19.209	ug/l	96
35) Methacrylonitrile	7.634	41	27745	17.279	ug/l	95
36) 1,2-Dichloroethane	8.528	62	68601	19.757	ug/l	98
37) Trichloroethene	9.216	130	39500	19.528	ug/l	100
38) Methylcyclohexane	9.457	83	58121	19.159	ug/l	96
39) 1,2-Dichloropropane	9.486	63	35094	18.686	ug/l	99
40) Dibromomethane	9.575	93	26683	18.405	ug/l	89
41) Bromodichloromethane	9.757	83	58736	19.123	ug/l	98
42) Vinyl Acetate	6.434	43	486917	95.259	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	51597	17.397	ug/l	98
44) Isopropyl Acetate	8.563	43	86686	18.259	ug/l	98
45) 1,4-Dioxane	9.569	88	12501	276.464	ug/l	92
46) Methyl methacrylate	9.557	41	39422	17.549	ug/l	85
47) n-amyl Acetate	12.386	43	57167	17.988	ug/l	97
48) t-1,3-Dichloropropene	10.716	75	56151	17.317	ug/l	96
49) cis-1,3-Dichloropropene	10.186	75	56841	17.392	ug/l	97
50) 1,1,2-Trichloroethane	10.892	97	37973	18.989	ug/l	94
51) Ethyl methacrylate	10.757	69	56240	18.036	ug/l	96
52) 1,3-Dichloropropane	11.039	76	66766	19.324	ug/l	97
53) Dibromochloromethane	11.239	129	45310	18.766	ug/l	99
54) 1,2-Dibromoethane	11.345	107	39873	18.745	ug/l	95
55) 2-Chloroethyl vinyl ether	10.039	63	64674	81.742	ug/l	99
56) Bromoform	12.457	173	33507	18.401	ug/l #	95
58) 4-Methyl-2-Pentanone	10.327	43	267453	92.152	ug/l	98
59) 2-Hexanone	11.080	43	189955	89.092	ug/l	98
61) Tetrachloroethene	10.969	164	36640	19.864	ug/l	94
62) Toluene	10.504	91	160236	19.257	ug/l	95
64) Chlorobenzene	11.769	112	96727	18.635	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.839	131	42249	19.686	ug/l	97
66) Ethyl Benzene	11.839	91	179970	19.229	ug/l	97
67) m/p-Xylenes	11.951	106	138640	39.071	ug/l	96
68) o-Xylene	12.274	106	68049	19.400	ug/l	94
69) Styrene	12.292	104	107466	19.237	ug/l	93
70) Isopropylbenzene	12.574	105	182232	19.579	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	56950	20.037	ug/l	96
72) 1,2,3-Trichloropropane	12.874	75	51929m	19.480	ug/l	
73) Bromobenzene	12.857	156	43523	19.430	ug/l	97
74) n-propylbenzene	12.916	91	196771	19.312	ug/l	99
75) 2-Chlorotoluene	13.004	91	127219	19.325	ug/l	98
76) 1,3,5-Trimethylbenzene	13.057	105	158660	19.931	ug/l	98
77) t-1,4-Dichloro-2-butene	12.621	75	12873	14.615	ug/l	80
78) 4-Chlorotoluene	13.104	91	119718	19.402	ug/l	95
79) tert-butylbenzene	13.321	119	131994	18.872	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	153156m	19.965	ug/l	
81) sec-Butylbenzene	13.498	105	180281	19.441	ug/l	98
82) p-Isopropyltoluene	13.610	119	150236	19.576	ug/l	98
83) 1,3-Dichlorobenzene	13.616	146	75488	19.741	ug/l	100
84) 1,4-Dichlorobenzene	13.692	146	69350	18.637	ug/l	99
85) n-Butylbenzene	13.939	91	108383	19.057	ug/l	98
86) Hexachloroethane	14.204	117	25805	18.260	ug/l	88
87) 1,2-Dichlorobenzene	13.986	146	74893	20.033	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	12368	18.485	ug/l	96
89) 1,2,4-Trichlorobenzene	15.262	180	31576	18.659	ug/l	98
90) Hexachlorobutadiene	15.362	225	21113	20.187	ug/l	97
91) Naphthalene	15.504	128	82944	19.285	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	31752	18.433	ug/l	97

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

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