

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031722\
 Data File : VN071343.D
 Acq On : 17 Mar 2022 02:27
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN031722

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/17/2022
 Supervised By : Semsettin Yesilyurt 03/21/2022

Quant Time: Mar 17 06:40:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 17 06:37:08 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	118372	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	658016	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	581853	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	275039	29.266	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.567%		
60) 4-Bromofluorobenzene	12.727	95	264825	29.460	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.200%		
63) Toluene-d8	10.439	98	828787	30.964	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	153639	20.073	ug/l	98
3) Chloromethane	2.299	50	200203	19.606	ug/l	96
4) Vinyl Chloride	2.440	62	181173	19.320	ug/l	99
5) Bromomethane	2.846	94	107957	22.971	ug/l	96
6) Chloroethane	3.010	64	112001	19.626	ug/l	100
7) Trichlorofluoromethane	3.369	101	233224	19.721	ug/l	98
8) Diethyl Ether	3.822	74	99174	19.307	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.210	101	127322m	19.145	ug/l	
10) 1,1-Dichloroethene	4.175	96	130347	19.260	ug/l	96
11) Methyl Iodide	4.422	142	166472	17.864	ug/l	96
12) Methyl Acetate	4.851	43	249353	19.252	ug/l	90
13) Acrolein	4.040	56	164581	96.917	ug/l	98
14) Acrylonitrile	5.551	53	509715	94.396	ug/l	98
15) Acetone	4.281	58	136387	96.085	ug/l	98
16) Carbon Disulfide	4.528	76	357421	19.530	ug/l	98
17) Allyl chloride	4.840	41	262281	18.806	ug/l	81
18) Methylene Chloride	5.093	84	156542	18.971	ug/l	90
19) trans-1,2-Dichloroethene	5.598	96	140695	19.781	ug/l	89
20) Diisopropyl ether	6.493	45	548270	19.533	ug/l	94
21) 1,1-Dichloroethane	6.381	63	285752	19.131	ug/l	97
22) cis-1,2-Dichloroethene	7.322	96	166634	19.328	ug/l	96
23) tert-Butyl Alcohol	5.363	59	184510	92.379	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	500797	19.389	ug/l	96
25) Chloroform	7.816	83	277733	19.361	ug/l	100
26) Cyclohexane	8.092	56	260764	19.286	ug/l #	91
29) 1,1-Dichloropropene	8.216	75	207179	19.564	ug/l	97
30) 2-Butanone	7.334	43	713692	95.180	ug/l	95
31) 2,2-Dichloropropane	7.322	77	181019	18.235	ug/l	98
32) 1,1,1-Trichloroethane	8.010	97	242678	19.652	ug/l	97
33) Carbon Tetrachloride	8.204	117	207029	19.717	ug/l	95
34) Benzene	8.457	78	640383	19.537	ug/l	97
35) Methacrylonitrile	7.634	41	147839	20.350	ug/l	88
36) 1,2-Dichloroethane	8.528	62	232149	19.832	ug/l	97
37) Trichloroethene	9.210	130	151686	19.420	ug/l	96
38) Methylcyclohexane	9.457	83	249255	19.613	ug/l	94
39) 1,2-Dichloropropane	9.486	63	170607	19.635	ug/l	100
40) Dibromomethane	9.575	93	104161	18.950	ug/l	91
41) Bromodichloromethane	9.757	83	216186	19.506	ug/l	98
42) Vinyl Acetate	6.428	43	2396867	97.819	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	279988	19.201	ug/l	94
44) Isopropyl Acetate	8.557	43	443574	18.917	ug/l	97
45) 1,4-Dioxane	9.563	88	77627	371.731	ug/l	91
46) Methyl methacrylate	9.557	41	190151	18.330	ug/l	83
47) n-amyl Acetate	12.380	43	281812	18.117	ug/l	97
48) t-1,3-Dichloropropene	10.716	75	224609	18.607	ug/l	97
49) cis-1,3-Dichloropropene	10.186	75	249956	19.151	ug/l	93
50) 1,1,2-Trichloroethane	10.892	97	154341	19.282	ug/l	98
51) Ethyl methacrylate	10.757	69	258194	18.751	ug/l	86
52) 1,3-Dichloropropane	11.039	76	280393	19.451	ug/l	99
53) Dibromochloromethane	11.233	129	160662	19.254	ug/l	98
54) 1,2-Dibromoethane	11.345	107	159344	19.199	ug/l	96
55) 2-Chloroethyl vinyl ether	10.039	63	353878	84.740	ug/l	98
56) Bromoform	12.451	173	120966	18.797	ug/l #	99
58) 4-Methyl-2-Pentanone	10.328	43	1400249	100.220	ug/l	98
59) 2-Hexanone	11.080	43	1025571	98.748	ug/l	98
61) Tetrachloroethene	10.975	164	128037	20.171	ug/l	91
62) Toluene	10.504	91	675190	20.295	ug/l	96
64) Chlorobenzene	11.769	112	407901	20.217	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	151330	20.217	ug/l	99
66) Ethyl Benzene	11.839	91	725460	19.788	ug/l	99
67) m/p-Xylenes	11.951	106	554465	40.246	ug/l	98
68) o-Xylene	12.275	106	278020	20.050	ug/l	98
69) Styrene	12.292	104	430201	19.690	ug/l	98
70) Isopropylbenzene	12.575	105	695563	19.832	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.822	83	244854	20.123	ug/l	98
72) 1,2,3-Trichloropropane	12.880	75	222560m	20.125	ug/l	
73) Bromobenzene	12.857	156	161440	19.658	ug/l	93
74) n-propylbenzene	12.916	91	750968	19.427	ug/l	100
75) 2-Chlorotoluene	13.004	91	473538	19.543	ug/l	97
76) 1,3,5-Trimethylbenzene	13.057	105	553778	19.892	ug/l	97
77) t-1,4-Dichloro-2-butene	12.622	75	67049	18.310	ug/l	97
78) 4-Chlorotoluene	13.098	91	430388	19.168	ug/l	97
79) tert-butylbenzene	13.322	119	495745	19.499	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	537781m	19.912	ug/l	
81) sec-Butylbenzene	13.498	105	661531	19.547	ug/l	100
82) p-Isopropyltoluene	13.610	119	524701	19.277	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	265758	19.822	ug/l	97
84) 1,4-Dichlorobenzene	13.692	146	250069	19.592	ug/l	98
85) n-Butylbenzene	13.939	91	377468	18.625	ug/l	96
86) Hexachloroethane	14.204	117	99129	19.123	ug/l	82
87) 1,2-Dichlorobenzene	13.986	146	260760	20.051	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	43710	18.706	ug/l	92
89) 1,2,4-Trichlorobenzene	15.257	180	113382	18.828	ug/l	98
90) Hexachlorobutadiene	15.363	225	69354	20.383	ug/l	98
91) Naphthalene	15.504	128	351231	18.634	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	117851	19.082	ug/l	98

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

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