

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073605.D
 Acq On : 27 Jul 2022 14:04
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072722

Quant Time: Jul 27 18:09:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

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

Internal Standards						
1) Bromochloromethane	7.581	128	59624	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	327718	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	302832	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	155982	30.257	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.867%			
60) 4-Bromofluorobenzene	12.674	95	159581	29.761	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.200%			
63) Toluene-d8	10.380	98	513177	30.095	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	87357	21.555	ug/l	98
3) Chloromethane	2.269	50	118625	22.139	ug/l	98
4) Vinyl Chloride	2.404	62	139874	21.269	ug/l	99
5) Bromomethane	2.810	94	92059	27.554	ug/l	96
6) Chloroethane	2.969	64	92205	20.694	ug/l	99
7) Trichlorofluoromethane	3.316	101	141143	21.820	ug/l	93
8) Diethyl Ether	3.769	74	55219	21.214	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.146	101	85992m	22.051	ug/l	
10) 1,1-Dichloroethene	4.116	96	80122	21.464	ug/l	98
11) Methyl Iodide	4.346	142	77015	17.886	ug/l	86
12) Methyl Acetate	4.775	43	133270	21.007	ug/l	98
13) Acrolein	3.981	56	106538	95.530	ug/l	99
14) Acrylonitrile	5.469	53	307453	105.007	ug/l	98
15) Acetone	4.216	58	91100	111.920	ug/l	80
16) Carbon Disulfide	4.457	76	212352	20.817	ug/l	98
17) Allyl chloride	4.763	41	128965	20.713	ug/l	89
18) Methylene Chloride	5.016	84	101502	21.460	ug/l	97
19) trans-1,2-Dichloroethene	5.510	96	89645	21.660	ug/l	97
20) Diisopropyl ether	6.410	45	286362	21.142	ug/l	95
21) 1,1-Dichloroethane	6.304	63	166985	20.892	ug/l	97
22) cis-1,2-Dichloroethene	7.251	96	106377	21.366	ug/l	96
23) tert-Butyl Alcohol	5.287	59	109849	106.161	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	287470	21.852	ug/l	92
25) Chloroform	7.745	83	174632	21.168	ug/l	99
26) Cyclohexane	8.022	56	147367	21.376	ug/l #	100
29) 1,1-Dichloropropene	8.151	75	127893	20.886	ug/l	98
30) 2-Butanone	7.257	43	431724	101.990	ug/l	99
31) 2,2-Dichloropropane	7.245	77	133587	20.907	ug/l	98
32) 1,1,1-Trichloroethane	7.939	97	150484	21.232	ug/l	100
33) Carbon Tetrachloride	8.133	117	125955	20.725	ug/l	97
34) Benzene	8.392	78	405720	20.475	ug/l	99
35) Methacrylonitrile	7.563	41	78589	22.871	ug/l	96
36) 1,2-Dichloroethane	8.463	62	135235	20.697	ug/l #	93
37) Trichloroethene	9.151	130	102798	21.087	ug/l	98
38) Methylcyclohexane	9.392	83	155034	20.395	ug/l	95
39) 1,2-Dichloropropane	9.428	63	101509	20.306	ug/l	97
40) Dibromomethane	9.516	93	70597	20.812	ug/l	90
41) Bromodichloromethane	9.698	83	133633	20.125	ug/l	96
42) Vinyl Acetate	6.351	43	1242149	101.835	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.339	43	168107	20.919	ug/l	98
44) Isopropyl Acetate	8.492	43	229735	20.558	ug/l	95
45) 1,4-Dioxane	9.504	88	52741	395.808	ug/l	95
46) Methyl methacrylate	9.498	41	98591	19.728	ug/l	89
47) n-amyl Acetate	12.333	43	178420	20.027	ug/l	95
48) t-1,3-Dichloropropene	10.663	75	138674	20.286	ug/l	99
49) cis-1,3-Dichloropropene	10.127	75	153995	20.288	ug/l #	88
50) 1,1,2-Trichloroethane	10.839	97	103561	20.350	ug/l	98
51) Ethyl methacrylate	10.704	69	153512	20.065	ug/l	87
52) 1,3-Dichloropropane	10.986	76	173252	20.198	ug/l	100
53) Dibromochloromethane	11.180	129	102253	19.827	ug/l	100
54) 1,2-Dibromoethane	11.286	107	105537	20.350	ug/l	95
55) 2-Chloroethyl vinyl ether	9.980	63	299894	87.394	ug/l	99
56) Bromoform	12.398	173	80114	19.767	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	811124	103.587	ug/l	95
59) 2-Hexanone	11.027	43	626787	103.923	ug/l	93
61) Tetrachloroethene	10.916	164	101651	21.914	ug/l	90
62) Toluene	10.445	91	446667	21.210	ug/l	99
64) Chlorobenzene	11.710	112	265558	21.105	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.780	131	97568	20.890	ug/l	99
66) Ethyl Benzene	11.786	91	465520	20.677	ug/l	98
67) m/p-Xylenes	11.892	106	367499	42.707	ug/l	98
68) o-Xylene	12.221	106	178822	20.922	ug/l	98
69) Styrene	12.233	104	290240	20.603	ug/l	97
70) Isopropylbenzene	12.521	105	462136	21.149	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.768	83	161136	20.972	ug/l	99
72) 1,2,3-Trichloropropane	12.821	75	157735m	24.581	ug/l	
73) Bromobenzene	12.804	156	114951	21.178	ug/l	95
74) n-propylbenzene	12.863	91	535029	21.039	ug/l	99
75) 2-Chlorotoluene	12.945	91	322863	21.180	ug/l	99
76) 1,3,5-Trimethylbenzene	12.998	105	386287	21.105	ug/l	95
77) t-1,4-Dichloro-2-butene	12.568	75	46678	19.960	ug/l	94
78) 4-Chlorotoluene	13.045	91	311036	21.240	ug/l	98
79) tert-butylbenzene	13.263	119	340686	21.530	ug/l	94
80) 1,2,4-Trimethylbenzene	13.310	105	390378m	21.533	ug/l	
81) sec-Butylbenzene	13.439	105	472741	20.807	ug/l	99
82) p-Isopropyltoluene	13.557	119	387123	20.753	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	209468	21.082	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	203299	21.211	ug/l	97
85) n-Butylbenzene	13.880	91	305229	20.186	ug/l	96
86) Hexachloroethane	14.151	117	69457	20.303	ug/l	82
87) 1,2-Dichlorobenzene	13.927	146	215895	21.492	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.539	75	33830	20.158	ug/l #	79
89) 1,2,4-Trichlorobenzene	15.198	180	115672	20.921	ug/l	97
90) Hexachlorobutadiene	15.304	225	58575	20.917	ug/l	98
91) Naphthalene	15.433	128	389232	21.440	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	121440	21.382	ug/l	98

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

