

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077197.D
 Acq On : 27 Mar 2023 11:08
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Mar 28 06:40:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 05:55:38 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/28/2023
 Supervised By : Semsettin Yesilyurt 03/28/2023

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

Internal Standards						
1) Bromochloromethane	7.825	128	39670	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	282690	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	315053	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	128506	31.897	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.333%			
60) 4-Bromofluorobenzene	12.848	95	170675	30.155	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.533%			
63) Toluene-d8	10.572	98	338717	30.118	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.400%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.137	85	67830	25.968	ug/l	99
3) Chloromethane	2.372	50	98490	23.694	ug/l	95
4) Vinyl Chloride	2.525	62	113598	19.382	ug/l	95
5) Bromomethane	2.972	94	91060	22.159	ug/l	89
6) Chloroethane	3.131	64	115640	23.668	ug/l	95
7) Trichlorofluoromethane	3.513	101	162372	19.246	ug/l	99
8) Diethyl Ether	3.972	74	61319	20.714	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.384	101	89266	20.234	ug/l	98
10) 1,1-Dichloroethene	4.354	96	80313	19.456	ug/l	96
11) Methyl Iodide	4.601	142	95441	21.710	ug/l	98
12) Methyl Acetate	5.037	43	174585	19.614	ug/l	98
13) Acrolein	4.190	56	132317	109.692	ug/l	98
14) Acrylonitrile	5.725	53	257636	95.418	ug/l	99
15) Acetone	4.443	58	75322	106.688	ug/l	99
16) Carbon Disulfide	4.725	76	223076	19.135	ug/l #	94
17) Allyl chloride	5.037	41	135814	18.707	ug/l	89
18) Methylene Chloride	5.290	84	101936	20.093	ug/l	94
19) trans-1,2-Dichloroethene	5.790	96	89149	20.159	ug/l	91
20) Diisopropyl ether	6.678	45	349743	21.266	ug/l	96
21) 1,1-Dichloroethane	6.578	63	191125	20.642	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	108601	20.799	ug/l	99
23) tert-Butyl Alcohol	5.537	59	80484m	87.818	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	302882	20.667	ug/l	99
25) Chloroform	7.972	83	188958	20.857	ug/l	98
26) Cyclohexane	8.260	56	151238	19.366	ug/l #	95
29) 1,1-Dichloropropene	8.378	75	129377	18.866	ug/l	98
30) 2-Butanone	7.489	43	371214	93.832	ug/l	97
31) 2,2-Dichloropropane	7.495	77	142764	22.223	ug/l #	65
32) 1,1,1-Trichloroethane	8.178	97	159356	19.273	ug/l	97
33) Carbon Tetrachloride	8.372	117	137071	19.733	ug/l	93
34) Benzene	8.613	78	405663	19.298	ug/l	97
35) Methacrylonitrile	7.784	41	75968	17.493	ug/l	98
36) 1,2-Dichloroethane	8.672	62	151743	19.581	ug/l	99
37) Trichloroethene	9.354	130	91327	19.217	ug/l	97
38) Methylcyclohexane	9.601	83	153812	18.842	ug/l	98
39) 1,2-Dichloropropane	9.625	63	106388	18.905	ug/l	98
40) Dibromomethane	9.707	93	70507	19.593	ug/l	95
41) Bromodichloromethane	9.889	83	144648	19.739	ug/l #	97
42) Vinyl Acetate	6.613	43	1138858	96.040	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	146833	18.578	ug/l	97
44) Isopropyl Acetate	8.689	43	233931	18.341	ug/l	97
45) 1,4-Dioxane	9.701	88	39053	376.564	ug/l	99
46) Methyl methacrylate	9.683	41	114996	19.555	ug/l	99
47) n-amyl Acetate	12.495	43	187036	17.430	ug/l	94
48) t-1,3-Dichloropropene	10.836	75	143285	19.250	ug/l	98
49) cis-1,3-Dichloropropene	10.313	75	161456	19.814	ug/l	98
50) 1,1,2-Trichloroethane	11.019	97	100940	19.982	ug/l	94
51) Ethyl methacrylate	10.877	69	143123	18.350	ug/l	95
52) 1,3-Dichloropropane	11.166	76	177903	19.840	ug/l	98
53) Dibromochloromethane	11.360	129	103894	19.864	ug/l	97
54) 1,2-Dibromoethane	11.472	107	98770	19.869	ug/l	100
55) 2-Chloroethyl vinyl ether	10.160	63	267197	81.937	ug/l	100
56) Bromoform	12.577	173	67525	18.398	ug/l	95
58) 4-Methyl-2-Pentanone	10.448	43	746483	91.804	ug/l	98
59) 2-Hexanone	11.195	43	525207	88.586	ug/l	99
61) Tetrachloroethene	11.107	164	79386	20.077	ug/l	94
62) Toluene	10.630	91	429049	19.377	ug/l	100
64) Chlorobenzene	11.895	112	253047	19.316	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	94017	19.542	ug/l	97
66) Ethyl Benzene	11.966	91	452917	19.036	ug/l	100
67) m/p-Xylenes	12.071	106	354049	38.668	ug/l	97
68) o-Xylene	12.401	106	169485	18.906	ug/l	95
69) Styrene	12.413	104	275792	18.945	ug/l	99
70) Isopropylbenzene	12.701	105	439586	18.910	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.936	83	144790	19.028	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	142865m	21.212	ug/l	
73) Bromobenzene	12.983	156	103953	20.002	ug/l	98
74) n-propylbenzene	13.036	91	516193	19.180	ug/l	99
75) 2-Chlorotoluene	13.130	91	314381	19.374	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	374109	19.387	ug/l	95
77) t-1,4-Dichloro-2-butene	12.736	75	39514	18.404	ug/l	97
78) 4-Chlorotoluene	13.224	91	293637	18.812	ug/l	97
79) tert-butylbenzene	13.442	119	316418	19.195	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	369528	19.297	ug/l	97
81) sec-Butylbenzene	13.618	105	446488	18.758	ug/l	99
82) p-Isopropyltoluene	13.730	119	361170	18.929	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	187781	19.514	ug/l	100
84) 1,4-Dichlorobenzene	13.813	146	179467	19.144	ug/l	96
85) n-Butylbenzene	14.060	91	302285	18.743	ug/l	99
86) Hexachloroethane	14.336	117	70099	19.266	ug/l	98
87) 1,2-Dichlorobenzene	14.107	146	188741	19.613	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	25097	17.189	ug/l	98
89) 1,2,4-Trichlorobenzene	15.395	180	72940	16.991	ug/l	99
90) Hexachlorobutadiene	15.501	225	48502	20.027	ug/l	98
91) Naphthalene	15.642	128	222829	15.818	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	72762	17.069	ug/l	98

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

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