

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077171.D
 Acq On : 24 Mar 2023 01:24
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032423

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/24/2023
 Supervised By :Semsettin Yesilyurt 03/27/2023

Quant Time: Mar 24 05:57:54 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

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

Internal Standards						
1) Bromochloromethane	7.819	128	41818	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	289761	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	318242	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	128939	30.361	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.200%			
60) 4-Bromofluorobenzene	12.854	95	168149	29.411	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.033%			
63) Toluene-d8	10.572	98	336507	29.621	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.733%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	63068	22.904	ug/l	98
3) Chloromethane	2.378	50	102433	23.376	ug/l	94
4) Vinyl Chloride	2.525	62	132170	21.393	ug/l	98
5) Bromomethane	2.972	94	115683	26.705	ug/l	89
6) Chloroethane	3.131	64	127877	24.828	ug/l	93
7) Trichlorofluoromethane	3.507	101	177249	19.930	ug/l	97
8) Diethyl Ether	3.972	74	65074	20.853	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.384	101	92744	19.943	ug/l	98
10) 1,1-Dichloroethene	4.354	96	88429	20.322	ug/l	96
11) Methyl Iodide	4.607	142	89861	19.391	ug/l	95
12) Methyl Acetate	5.037	43	196737	20.967	ug/l	97
13) Acrolein	4.196	56	131356	103.301	ug/l	97
14) Acrylonitrile	5.731	53	303240	106.539	ug/l	99
15) Acetone	4.443	58	80774	108.533	ug/l	99
16) Carbon Disulfide	4.725	76	242705	19.750	ug/l	98
17) Allyl chloride	5.037	41	152666	19.948	ug/l	94
18) Methylene Chloride	5.290	84	109627	20.499	ug/l	92
19) trans-1,2-Dichloroethene	5.796	96	96063	20.606	ug/l	91
20) Diisopropyl ether	6.690	45	371054	21.403	ug/l	97
21) 1,1-Dichloroethane	6.578	63	198161	20.302	ug/l	97
22) cis-1,2-Dichloroethene	7.495	96	111850	20.321	ug/l	98
23) tert-Butyl Alcohol	5.531	59	97641	101.065	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	324073	20.977	ug/l	99
25) Chloroform	7.972	83	199128	20.851	ug/l	99
26) Cyclohexane	8.266	56	172157	20.912	ug/l #	99
29) 1,1-Dichloropropene	8.378	75	142682	20.298	ug/l	98
30) 2-Butanone	7.495	43	418231	103.136	ug/l	98
31) 2,2-Dichloropropane	7.495	77	125469	19.055	ug/l	95
32) 1,1,1-Trichloroethane	8.178	97	168667	19.901	ug/l	99
33) Carbon Tetrachloride	8.372	117	144474	20.292	ug/l	91
34) Benzene	8.613	78	436636	20.265	ug/l	95
35) Methacrylonitrile	7.790	41	91059	20.456	ug/l	97
36) 1,2-Dichloroethane	8.678	62	164823	20.749	ug/l	98
37) Trichloroethene	9.360	130	97039	19.921	ug/l	99
38) Methylcyclohexane	9.607	83	156779	18.736	ug/l	97
39) 1,2-Dichloropropane	9.631	63	116167	20.139	ug/l	92
40) Dibromomethane	9.719	93	75868	20.568	ug/l	94
41) Bromodichloromethane	9.895	83	149768	19.939	ug/l	92
42) Vinyl Acetate	6.613	43	1218852	100.277	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	169921	20.975	ug/l	100
44) Isopropyl Acetate	8.695	43	263485	20.154	ug/l	98
45) 1,4-Dioxane	9.695	88	43335	407.656	ug/l	96
46) Methyl methacrylate	9.684	41	128169	21.263	ug/l	97
47) n-amyl Acetate	12.495	43	209134	19.014	ug/l	95
48) t-1,3-Dichloropropene	10.842	75	144916	18.994	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	162471	19.452	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	105810	20.435	ug/l	94
51) Ethyl methacrylate	10.878	69	158718	19.853	ug/l	95
52) 1,3-Dichloropropane	11.166	76	188586	20.518	ug/l	98
53) Dibromochloromethane	11.360	129	107721	20.093	ug/l	95
54) 1,2-Dibromoethane	11.472	107	102983	20.211	ug/l	97
55) 2-Chloroethyl vinyl ether	10.166	63	315273	94.320	ug/l	98
56) Bromoform	12.583	173	69565	18.492	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	871343	106.086	ug/l	99
59) 2-Hexanone	11.201	43	630830	105.335	ug/l	99
61) Tetrachloroethene	11.107	164	81674	20.448	ug/l	95
62) Toluene	10.631	91	459505	20.544	ug/l	99
64) Chlorobenzene	11.895	112	263426	19.907	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	97658	20.095	ug/l	97
66) Ethyl Benzene	11.966	91	489113	20.351	ug/l	100
67) m/p-Xylenes	12.077	106	367290	39.712	ug/l	93
68) o-Xylene	12.401	106	185661	20.503	ug/l	99
69) Styrene	12.413	104	286894	19.511	ug/l	96
70) Isopropylbenzene	12.701	105	460446	19.608	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.936	83	160303	20.856	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	144884m	21.296	ug/l	
73) Bromobenzene	12.983	156	106191	20.228	ug/l	93
74) n-propylbenzene	13.042	91	537679	19.778	ug/l	100
75) 2-Chlorotoluene	13.130	91	326675	19.930	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	393986	20.213	ug/l	95
77) t-1,4-Dichloro-2-butene	12.742	75	41530	19.149	ug/l	90
78) 4-Chlorotoluene	13.224	91	311508	19.756	ug/l	96
79) tert-butylbenzene	13.442	119	327042	19.640	ug/l	95
80) 1,2,4-Trimethylbenzene	13.483	105	383033	19.802	ug/l	99
81) sec-Butylbenzene	13.619	105	468345	19.479	ug/l	100
82) p-Isopropyltoluene	13.730	119	375746	19.496	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	193839	19.941	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	184625	19.497	ug/l	98
85) n-Butylbenzene	14.060	91	302501	18.569	ug/l	98
86) Hexachloroethane	14.342	117	73533	20.007	ug/l	94
87) 1,2-Dichlorobenzene	14.107	146	193879	19.945	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	29953	20.310	ug/l	97
89) 1,2,4-Trichlorobenzene	15.395	180	80536	18.572	ug/l	97
90) Hexachlorobutadiene	15.507	225	49064	20.056	ug/l	94
91) Naphthalene	15.648	128	263476	18.516	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	82855	19.242	ug/l	95

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

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