

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077202.D
 Acq On : 27 Mar 2023 14:59
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.1mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

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

Quant Time: Mar 28 06:44:05 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	43909	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	295306	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	321838	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	127991	28.702	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.667%		
60) 4-Bromofluorobenzene	12.848	95	171987	29.747	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.167%		
63) Toluene-d8	10.572	98	348528	30.337	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	76691	26.526	ug/l	94
3) Chloromethane	2.372	50	118191	25.688	ug/l	97
4) Vinyl Chloride	2.525	62	126731	19.536	ug/l	95
5) Bromomethane	2.966	94	81272	17.868	ug/l	90
6) Chloroethane	3.131	64	99369	18.375	ug/l	95
7) Trichlorofluoromethane	3.513	101	220690	23.633	ug/l	95
8) Diethyl Ether	3.978	74	60262	18.392	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.384	101	95583	19.575	ug/l	80
10) 1,1-Dichloroethene	4.354	96	85624	18.740	ug/l	95
11) Methyl Iodide	4.607	142	98207	20.182	ug/l	89
12) Methyl Acetate	5.037	43	174417	17.703	ug/l	99
13) Acrolein	4.190	56	116951	87.593	ug/l	97
14) Acrylonitrile	5.737	53	267574	89.531	ug/l	98
15) Acetone	4.443	58	70325	89.994	ug/l	99
16) Carbon Disulfide	4.725	76	233256	18.077	ug/l #	95
17) Allyl chloride	5.037	41	143046	17.801	ug/l	92
18) Methylene Chloride	5.290	84	106036	18.884	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	91880	18.771	ug/l	98
20) Diisopropyl ether	6.684	45	334094	18.353	ug/l	92
21) 1,1-Dichloroethane	6.578	63	189422	18.483	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	110555	19.129	ug/l	99
23) tert-Butyl Alcohol	5.537	59	80933m	79.782	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	305179	18.813	ug/l	99
25) Chloroform	7.972	83	190695	19.017	ug/l	94
26) Cyclohexane	8.266	56	164902	19.077	ug/l #	99
29) 1,1-Dichloropropene	8.378	75	138792	19.374	ug/l	98
30) 2-Butanone	7.489	43	378175	91.507	ug/l	98
31) 2,2-Dichloropropane	7.501	77	147187	21.933	ug/l #	66
32) 1,1,1-Trichloroethane	8.172	97	166043	19.224	ug/l	98
33) Carbon Tetrachloride	8.366	117	143212	19.737	ug/l	95
34) Benzene	8.613	78	415630	18.928	ug/l #	95
35) Methacrylonitrile	7.789	41	82045	18.085	ug/l	96
36) 1,2-Dichloroethane	8.678	62	151731	18.743	ug/l	97
37) Trichloroethene	9.354	130	94298	18.995	ug/l	93
38) Methylcyclohexane	9.607	83	162208	19.021	ug/l	95
39) 1,2-Dichloropropane	9.630	63	110218	18.749	ug/l	92
40) Dibromomethane	9.713	93	72982	19.414	ug/l	97
41) Bromodichloromethane	9.889	83	150615	19.675	ug/l	95
42) Vinyl Acetate	6.613	43	1131852	91.371	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.1mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	152039	18.415	ug/l	95
44) Isopropyl Acetate	8.695	43	239203	17.953	ug/l	99
45) 1,4-Dioxane	9.701	88	38838	358.492	ug/l	92
46) Methyl methacrylate	9.683	41	112533	18.319	ug/l	98
47) n-amyl Acetate	12.495	43	187361	16.715	ug/l	94
48) t-1,3-Dichloropropene	10.836	75	146357	18.823	ug/l	99
49) cis-1,3-Dichloropropene	10.319	75	163548	19.213	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	101242	19.185	ug/l	94
51) Ethyl methacrylate	10.877	69	149632	18.365	ug/l	95
52) 1,3-Dichloropropane	11.166	76	177327	18.931	ug/l	100
53) Dibromochloromethane	11.360	129	104725	19.167	ug/l	97
54) 1,2-Dibromoethane	11.471	107	95979	18.483	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	289255	84.912	ug/l	99
56) Bromoform	12.583	173	68469	17.859	ug/l	96
58) 4-Methyl-2-Pentanone	10.448	43	762427	91.788	ug/l	98
59) 2-Hexanone	11.201	43	546108	90.170	ug/l	100
61) Tetrachloroethene	11.107	164	83247	20.609	ug/l	95
62) Toluene	10.630	91	443583	19.611	ug/l	100
64) Chlorobenzene	11.895	112	262076	19.584	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.960	131	95090	19.348	ug/l	98
66) Ethyl Benzene	11.966	91	473793	19.494	ug/l	99
67) m/p-Xylenes	12.071	106	365395	39.066	ug/l	94
68) o-Xylene	12.401	106	174994	19.109	ug/l	96
69) Styrene	12.413	104	281017	18.897	ug/l	98
70) Isopropylbenzene	12.701	105	465110	19.586	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.942	83	150716	19.389	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	136749m	19.875	ug/l	
73) Bromobenzene	12.983	156	101725	19.161	ug/l	92
74) n-propylbenzene	13.036	91	535489	19.478	ug/l	100
75) 2-Chlorotoluene	13.130	91	325494	19.636	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	392951	19.935	ug/l	97
77) t-1,4-Dichloro-2-butene	12.736	75	41376	18.865	ug/l	92
78) 4-Chlorotoluene	13.224	91	308960	19.376	ug/l	95
79) tert-butylbenzene	13.442	119	323848	19.231	ug/l	95
80) 1,2,4-Trimethylbenzene	13.489	105	387169	19.792	ug/l	97
81) sec-Butylbenzene	13.618	105	467934	19.245	ug/l	100
82) p-Isopropyltoluene	13.730	119	383094	19.655	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	194156	19.751	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	185676	19.389	ug/l	97
85) n-Butylbenzene	14.060	91	304235	18.467	ug/l	99
86) Hexachloroethane	14.336	117	69449	18.685	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	193878	19.722	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	26736	17.926	ug/l	99
89) 1,2,4-Trichlorobenzene	15.395	180	76530	17.451	ug/l	97
90) Hexachlorobutadiene	15.507	225	49617	20.056	ug/l	98
91) Naphthalene	15.642	128	222516	15.463	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	77171	17.722	ug/l	96

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

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