

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077166.D
 Acq On : 23 Mar 2023 22:58
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Mar 24 04:57:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 04:51:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	42169	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	286655	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	311798	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	132100	33.305	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.000%#			
60) 4-Bromofluorobenzene	12.854	95	168733	28.922	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.400%			
63) Toluene-d8	10.572	98	349882	31.699	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.143	85	52894	10.709	ug/l	85
3) Chloromethane	2.378	50	104635	20.513	ug/l	99
4) Vinyl Chloride	2.525	62	116761	24.048	ug/l #	88
5) Bromomethane	2.966	94	83705	26.040	ug/l	90
6) Chloroethane	3.131	64	101076	31.714	ug/l	97
7) Trichlorofluoromethane	3.507	101	173018	20.039	ug/l	98
8) Diethyl Ether	3.972	74	57967	18.269	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.390	101	89966	18.730	ug/l	81
10) 1,1-Dichloroethene	4.354	96	85084	18.330	ug/l	96
11) Methyl Iodide	4.601	142	81673	15.158	ug/l	100
12) Methyl Acetate	5.043	43	183621	22.753	ug/l	92
13) Acrolein	4.196	56	125737	106.892	ug/l	97
14) Acrylonitrile	5.731	53	278125	106.319	ug/l	99
15) Acetone	4.443	58	72698	103.259	ug/l	85
16) Carbon Disulfide	4.725	76	231274	18.004	ug/l	96
17) Allyl chloride	5.037	41	141159	19.795	ug/l	95
18) Methylene Chloride	5.290	84	105454	19.143	ug/l	93
19) trans-1,2-Dichloroethene	5.801	96	88279	18.050	ug/l	96
20) Diisopropyl ether	6.678	45	339981	21.017	ug/l	90
21) 1,1-Dichloroethane	6.584	63	186886	19.620	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	107306	19.038	ug/l	98
23) tert-Butyl Alcohol	5.537	59	91051	116.785	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	293309	19.194	ug/l	100
25) Chloroform	7.972	83	188099	19.274	ug/l	99
26) Cyclohexane	8.266	56	158847	18.613	ug/l #	99
29) 1,1-Dichloropropene	8.384	75	133355	19.240	ug/l	97
30) 2-Butanone	7.495	43	394401	118.073	ug/l #	96
31) 2,2-Dichloropropane	7.507	77	122992	18.198	ug/l #	63
32) 1,1,1-Trichloroethane	8.184	97	161003	19.825	ug/l	99
33) Carbon Tetrachloride	8.372	117	136345	19.100	ug/l	91
34) Benzene	8.613	78	411894	19.363	ug/l	96
35) Methacrylonitrile	7.790	41	85694	22.910	ug/l	96
36) 1,2-Dichloroethane	8.672	62	154734	21.205	ug/l	98
37) Trichloroethene	9.354	130	92386	17.959	ug/l	93
38) Methylcyclohexane	9.607	83	151931	17.949	ug/l	97
39) 1,2-Dichloropropane	9.625	63	111611	20.302	ug/l	93
40) Dibromomethane	9.713	93	71098	20.260	ug/l	97
41) Bromodichloromethane	9.895	83	143244	19.976	ug/l	100
42) Vinyl Acetate	6.619	43	1132626	110.859	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.566	43	156132	23.307	ug/l	#	84
44) Isopropyl Acetate	8.695	43	250984	23.169	ug/l		99
45) 1,4-Dioxane	9.695	88	43520	474.732	ug/l	#	93
46) Methyl methacrylate	9.683	41	119710	22.830	ug/l		96
47) n-amyl Acetate	12.501	43	193844	22.117	ug/l		96
48) t-1,3-Dichloropropene	10.842	75	137224	19.181	ug/l		99
49) cis-1,3-Dichloropropene	10.319	75	153697	19.019	ug/l		95
50) 1,1,2-Trichloroethane	11.019	97	100160	19.538	ug/l		99
51) Ethyl methacrylate	10.878	69	144567	19.281	ug/l		94
52) 1,3-Dichloropropane	11.172	76	172928	19.594	ug/l		99
53) Dibromochloromethane	11.366	129	99439	19.150	ug/l		97
54) 1,2-Dibromoethane	11.472	107	96049	19.476	ug/l		98
55) 2-Chloroethyl vinyl ether	10.166	63	308095	112.695	ug/l		99
56) Bromoform	12.583	173	65251	18.852	ug/l		97
58) 4-Methyl-2-Pentanone	10.448	43	804963	118.801	ug/l		98
59) 2-Hexanone	11.201	43	585248	120.976	ug/l		99
61) Tetrachloroethene	11.107	164	75708	15.757	ug/l		97
62) Toluene	10.636	91	429432	19.563	ug/l		100
64) Chlorobenzene	11.895	112	249127	19.331	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.966	131	93659	19.297	ug/l		97
66) Ethyl Benzene	11.966	91	453712	19.150	ug/l		96
67) m/p-Xylenes	12.072	106	349479	38.960	ug/l		95
68) o-Xylene	12.401	106	169158	19.303	ug/l		97
69) Styrene	12.413	104	269544	19.070	ug/l		98
70) Isopropylbenzene	12.701	105	438998	19.284	ug/l		98
71) 1,1,2,2-Tetrachloroethane	12.942	83	151087	21.350	ug/l		100
72) 1,2,3-Trichloropropane	12.995	75	137832m	21.177	ug/l		
73) Bromobenzene	12.983	156	98787	19.143	ug/l		94
74) n-propylbenzene	13.042	91	500553	18.748	ug/l		99
75) 2-Chlorotoluene	13.130	91	307704	18.624	ug/l		98
76) 1,3,5-Trimethylbenzene	13.177	105	373149	19.004	ug/l		94
77) t-1,4-Dichloro-2-butene	12.736	75	38659	19.909	ug/l		97
78) 4-Chlorotoluene	13.224	91	292091	18.373	ug/l		96
79) tert-butylbenzene	13.442	119	310059	18.853	ug/l		96
80) 1,2,4-Trimethylbenzene	13.489	105	362075	18.842	ug/l		97
81) sec-Butylbenzene	13.619	105	437915	18.721	ug/l		100
82) p-Isopropyltoluene	13.736	119	349373	18.556	ug/l		98
83) 1,3-Dichlorobenzene	13.736	146	182266	19.148	ug/l		98
84) 1,4-Dichlorobenzene	13.813	146	172056	18.694	ug/l		97
85) n-Butylbenzene	14.060	91	277460	17.488	ug/l		99
86) Hexachloroethane	14.336	117	66209	19.318	ug/l		94
87) 1,2-Dichlorobenzene	14.107	146	180304	19.048	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	27358	20.036	ug/l		98
89) 1,2,4-Trichlorobenzene	15.401	180	71433	14.791	ug/l		99
90) Hexachlorobutadiene	15.507	225	43997	16.900	ug/l		95
91) Naphthalene	15.648	128	234092	15.264	ug/l		100
92) 1,2,3-Trichlorobenzene	15.848	180	74383	15.357	ug/l		98

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

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