

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077268.D
 Acq On : 07 Apr 2023 09:58
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

Quant Time: Apr 07 10:29:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 10:13:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	60968	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	451070	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	487897	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	152190	27.158	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.533%	#	
60) 4-Bromofluorobenzene	12.854	95	250703	27.150	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.500%		
63) Toluene-d8	10.566	98	509463	29.688	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.967%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	107191	13.739	ug/l	97
3) Chloromethane	2.372	50	142846	20.032	ug/l	96
4) Vinyl Chloride	2.525	62	204221	31.405	ug/l #	89
5) Bromomethane	2.966	94	140794	33.857	ug/l	93
6) Chloroethane	3.131	64	139094	36.402	ug/l	99
7) Trichlorofluoromethane	3.507	101	187277	15.417	ug/l	97
8) Diethyl Ether	3.972	74	82017	18.003	ug/l	70
9) 1,1,2-Trichlorotrifluo...	4.384	101	120123	17.455	ug/l	98
10) 1,1-Dichloroethene	4.349	96	115652	17.314	ug/l	85
11) Methyl Iodide	4.601	142	139070	17.279	ug/l	90
12) Methyl Acetate	5.037	43	178122	16.213	ug/l #	87
13) Acrolein	4.184	56	115989	71.413	ug/l	99
14) Acrylonitrile	5.725	53	300527	83.037	ug/l	98
15) Acetone	4.431	58	128482	130.444	ug/l	75
16) Carbon Disulfide	4.719	76	307727	16.614	ug/l	99
17) Allyl chloride	5.031	41	160842	16.054	ug/l #	76
18) Methylene Chloride	5.284	84	134808	17.254	ug/l #	77
19) trans-1,2-Dichloroethene	5.790	96	126843	18.021	ug/l	88
20) Diisopropyl ether	6.678	45	360605	15.955	ug/l #	87
21) 1,1-Dichloroethane	6.578	63	229020	17.027	ug/l	98
22) cis-1,2-Dichloroethene	7.490	96	153035	18.973	ug/l	89
23) tert-Butyl Alcohol	5.525	59	141819m	134.924	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	430325	19.759	ug/l #	76
25) Chloroform	7.972	83	247295	17.898	ug/l	100
26) Cyclohexane	8.260	56	197594	16.090	ug/l #	74
29) 1,1-Dichloropropene	8.372	75	184191	17.336	ug/l	96
30) 2-Butanone	7.490	43	466176	96.173	ug/l #	86
31) 2,2-Dichloropropane	7.495	77	224526	21.330	ug/l #	61
32) 1,1,1-Trichloroethane	8.172	97	229366	18.508	ug/l	93
33) Carbon Tetrachloride	8.366	117	196984	17.977	ug/l	95
34) Benzene	8.613	78	573350	17.603	ug/l	94
35) Methacrylonitrile	7.778	41	81077	14.865	ug/l	83
36) 1,2-Dichloroethane	8.678	62	182032m	16.673	ug/l	
37) Trichloroethene	9.354	130	137142	17.083	ug/l	97
38) Methylcyclohexane	9.607	83	248158	18.765	ug/l	91
39) 1,2-Dichloropropane	9.625	63	143085	17.097	ug/l	96
40) Dibromomethane	9.713	93	102393	19.205	ug/l	97
41) Bromodichloromethane	9.889	83	205468	18.804	ug/l	98
42) Vinyl Acetate	6.607	43	1259520m	83.358	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	161407	16.502	ug/l	98
44) Isopropyl Acetate	8.689	43	295518	18.639	ug/l	91
45) 1,4-Dioxane	9.701	88	62815	470.938	ug/l #	86
46) Methyl methacrylate	9.684	41	123620	16.010	ug/l	82
47) n-amyl Acetate	12.495	43	251577	19.497	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	223747	20.445	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	241384	19.419	ug/l #	85
50) 1,1,2-Trichloroethane	11.019	97	145983	18.690	ug/l	94
51) Ethyl methacrylate	10.878	69	227144	19.726	ug/l	82
52) 1,3-Dichloropropane	11.166	76	244912	18.154	ug/l	99
53) Dibromochloromethane	11.360	129	154956	19.446	ug/l	97
54) 1,2-Dibromoethane	11.472	107	150171	19.924	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	354988	87.928	ug/l	97
56) Bromoform	12.583	173	104729	19.646	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	886750	89.969	ug/l #	85
59) 2-Hexanone	11.195	43	697886	99.675	ug/l #	86
61) Tetrachloroethene	11.107	164	106763	13.861	ug/l	88
62) Toluene	10.631	91	640843	19.062	ug/l	100
64) Chlorobenzene	11.895	112	387373	19.575	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	146616	19.725	ug/l	96
66) Ethyl Benzene	11.966	91	707173	19.375	ug/l	96
67) m/p-Xylenes	12.072	106	548079	39.641	ug/l	98
68) o-Xylene	12.401	106	277951	20.591	ug/l	95
69) Styrene	12.413	104	440631	20.127	ug/l	100
70) Isopropylbenzene	12.701	105	707489	20.144	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	216463	20.441	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	157230m	16.185	ug/l	
73) Bromobenzene	12.983	156	144123	18.184	ug/l	93
74) n-propylbenzene	13.036	91	768999	18.550	ug/l	97
75) 2-Chlorotoluene	13.124	91	468974	18.292	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	577775	19.006	ug/l	96
77) t-1,4-Dichloro-2-butene	12.736	75	74531m	25.133	ug/l	
78) 4-Chlorotoluene	13.224	91	433733	17.550	ug/l	99
79) tert-butylbenzene	13.442	119	508584	20.006	ug/l	98
80) 1,2,4-Trimethylbenzene	13.483	105	572226	19.154	ug/l	96
81) sec-Butylbenzene	13.619	105	725944	19.959	ug/l	99
82) p-Isopropyltoluene	13.730	119	577351	19.640	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	263479	17.967	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	257313	18.064	ug/l	96
85) n-Butylbenzene	14.060	91	455261	18.271	ug/l	98
86) Hexachloroethane	14.336	117	120703	22.997	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	268707	18.375	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	39740	19.267	ug/l	88
89) 1,2,4-Trichlorobenzene	15.371	180	92411	11.846	ug/l	99
90) Hexachlorobutadiene	15.465	225	52227	12.699	ug/l	97
91) Naphthalene	15.589	128	364155	14.718	ug/l	99
92) 1,2,3-Trichlorobenzene	15.754	180	93487	11.954	ug/l	96

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

