

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077276.D
 Acq On : 07 Apr 2023 13:46
 Operator : JC\MD
 Sample : VN0407WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0407WBS01

Quant Time: Apr 08 05:18:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.819	128	53493	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	393388	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	434522	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	138780	30.590	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.967%			
60) 4-Bromofluorobenzene	12.854	95	226143	30.098	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.333%			
63) Toluene-d8	10.572	98	458801	30.035	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.133%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	97767	19.225	ug/l	93
3) Chloromethane	2.372	50	124945	18.493	ug/l	100
4) Vinyl Chloride	2.519	62	178473	18.443	ug/l	99
5) Bromomethane	2.960	94	133597	18.321	ug/l	93
6) Chloroethane	3.125	64	118883	18.328	ug/l	95
7) Trichlorofluoromethane	3.502	101	160674	17.832	ug/l	94
8) Diethyl Ether	3.972	74	76846	20.009	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.378	101	103700	18.404	ug/l	88
10) 1,1-Dichloroethene	4.349	96	104317	18.507	ug/l	94
11) Methyl Iodide	4.601	142	119637	18.787	ug/l	98
12) Methyl Acetate	5.031	43	159686	19.015	ug/l	98
13) Acrolein	4.184	56	98296	94.298	ug/l	97
14) Acrylonitrile	5.725	53	277461	96.657	ug/l #	87
15) Acetone	4.443	58	88582	85.060	ug/l	97
16) Carbon Disulfide	4.719	76	264310	17.765	ug/l	100
17) Allyl chloride	5.037	41	125775	17.334	ug/l	97
18) Methylene Chloride	5.290	84	122166	18.663	ug/l	97
19) trans-1,2-Dichloroethene	5.790	96	114728	18.719	ug/l	97
20) Diisopropyl ether	6.678	45	307486	17.780	ug/l	98
21) 1,1-Dichloroethane	6.572	63	206441	18.833	ug/l	100
22) cis-1,2-Dichloroethene	7.495	96	137602	18.417	ug/l	98
23) tert-Butyl Alcohol	5.543	59	122844m	96.242	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	396232m	19.526	ug/l	
25) Chloroform	7.972	83	218335	18.379	ug/l	97
26) Cyclohexane	8.260	56	171837	18.041	ug/l #	97
29) 1,1-Dichloropropene	8.378	75	162659	19.087	ug/l	99
30) 2-Butanone	7.489	43	377073	93.569	ug/l	99
31) 2,2-Dichloropropane	7.495	77	195839	18.720	ug/l	100
32) 1,1,1-Trichloroethane	8.178	97	196387	18.726	ug/l	98
33) Carbon Tetrachloride	8.366	117	167356	18.697	ug/l	89
34) Benzene	8.613	78	514283	19.504	ug/l	96
35) Methacrylonitrile	7.784	41	78982	20.805	ug/l	93
36) 1,2-Dichloroethane	8.678	62	161663	19.555	ug/l	98
37) Trichloroethene	9.360	130	121069	18.772	ug/l	94
38) Methylcyclohexane	9.607	83	222910	19.286	ug/l	99
39) 1,2-Dichloropropane	9.625	63	128291	19.599	ug/l	98
40) Dibromomethane	9.713	93	92733	19.662	ug/l	99
41) Bromodichloromethane	9.889	83	185918	19.769	ug/l	99
42) Vinyl Acetate	6.613	43	1108913	95.077	ug/l #	100

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43) Ethyl Acetate	7.566	43	142255	19.080	ug/l	97
44) Isopropyl Acetate	8.695	43	265286	19.873	ug/l #	100
45) 1,4-Dioxane	9.701	88	54797	389.217	ug/l	99
46) Methyl methacrylate	9.678	41	98696	17.172	ug/l	92
47) n-amyl Acetate	12.495	43	226826	19.443	ug/l	100
48) t-1,3-Dichloropropene	10.836	75	208199	19.781	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	219884	19.638	ug/l	95
50) 1,1,2-Trichloroethane	11.019	97	134805	19.678	ug/l	99
51) Ethyl methacrylate	10.878	69	209684	19.932	ug/l	98
52) 1,3-Dichloropropane	11.166	76	227491	19.897	ug/l	100
53) Dibromochloromethane	11.360	129	141988	19.665	ug/l	100
54) 1,2-Dibromoethane	11.472	107	132950	19.332	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	287994	88.667	ug/l	99
56) Bromoform	12.583	173	90008	18.558	ug/l	96
58) 4-Methyl-2-Pentanone	10.448	43	786049	96.617	ug/l	99
59) 2-Hexanone	11.195	43	587162	93.369	ug/l	100
61) Tetrachloroethene	11.107	164	98722	19.102	ug/l	97
62) Toluene	10.630	91	585402	19.309	ug/l	100
64) Chlorobenzene	11.895	112	351007	19.057	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	128173	18.924	ug/l	98
66) Ethyl Benzene	11.966	91	637837	18.990	ug/l	97
67) m/p-Xylenes	12.072	106	500823	38.041	ug/l	99
68) o-Xylene	12.401	106	251191	19.072	ug/l	100
69) Styrene	12.413	104	402838	19.090	ug/l	98
70) Isopropylbenzene	12.695	105	642611	19.225	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	200105	19.549	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	169235m	24.322	ug/l	
73) Bromobenzene	12.983	156	131916	19.425	ug/l	97
74) n-propylbenzene	13.036	91	710598	19.214	ug/l	100
75) 2-Chlorotoluene	13.130	91	425682	19.213	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	524707	19.287	ug/l	100
77) t-1,4-Dichloro-2-butene	12.736	75	66728	18.828	ug/l	97
78) 4-Chlorotoluene	13.224	91	398468	19.034	ug/l	100
79) tert-butylbenzene	13.442	119	447563	18.903	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	504374	19.018	ug/l	99
81) sec-Butylbenzene	13.618	105	652537	19.297	ug/l	100
82) p-Isopropyltoluene	13.730	119	521518	19.250	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	243682	18.925	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	239363	19.161	ug/l	99
85) n-Butylbenzene	14.060	91	424748	18.973	ug/l	99
86) Hexachloroethane	14.336	117	107752	18.698	ug/l	98
87) 1,2-Dichlorobenzene	14.107	146	244453	19.376	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.718	75	36511	18.614	ug/l	96
89) 1,2,4-Trichlorobenzene	15.365	180	89836	18.102	ug/l	96
90) Hexachlorobutadiene	15.465	225	46382	18.223	ug/l	95
91) Naphthalene	15.589	128	340038	17.935	ug/l	100
92) 1,2,3-Trichlorobenzene	15.760	180	85306	17.617	ug/l	98

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

