

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078730.D
 Acq On : 02 Aug 2023 13:02
 Operator : JC\MD
 Sample : VN0802WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/03/2023
 Supervised By : Semsettin Yesilyurt 08/03/2023

Quant Time: Aug 03 05:31:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	113053	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	707188	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	514438	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	280550	33.106	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.367%#			
60) 4-Bromofluorobenzene	12.853	95	219142	28.425	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.733%			
63) Toluene-d8	10.570	98	737511	29.021	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.733%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.136	85	124171	17.413	ug/l	96
3) Chloromethane	2.371	50	210362	23.965	ug/l	95
4) Vinyl Chloride	2.524	62	246057	20.627	ug/l	97
5) Bromomethane	2.971	94	163132	18.295	ug/l	98
6) Chloroethane	3.130	64	145665	18.750	ug/l	97
7) Trichlorofluoromethane	3.506	101	277352	22.665	ug/l	94
8) Diethyl Ether	3.977	74	82514	20.654	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.383	101	144821	22.048	ug/l	98
10) 1,1-Dichloroethene	4.347	96	134244	21.314	ug/l	96
11) Methyl Iodide	4.600	142	196719	22.220	ug/l	96
12) Methyl Acetate	5.041	43	187700	18.373	ug/l	94
13) Acrolein	4.194	56	94917	87.248	ug/l	99
14) Acrylonitrile	5.730	53	264340	88.363	ug/l	98
15) Acetone	4.441	58	101162	116.715	ug/l	80
16) Carbon Disulfide	4.718	76	370987	20.852	ug/l	95
17) Allyl chloride	5.036	41	168384	19.580	ug/l	92
18) Methylene Chloride	5.283	84	144447	19.116	ug/l	96
19) trans-1,2-Dichloroethene	5.800	96	130392	17.906	ug/l	97
20) Diisopropyl ether	6.682	45	375965	19.416	ug/l	98
21) 1,1-Dichloroethane	6.582	63	245622	19.157	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	159056	19.448	ug/l	96
23) tert-Butyl Alcohol	5.541	59	105235m	86.088	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	385146	18.185	ug/l #	89
25) Chloroform	7.977	83	316559	23.320	ug/l	99
26) Cyclohexane	8.265	56	212688	22.520	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	221896	21.324	ug/l	100
30) 2-Butanone	7.494	43	356607	86.692	ug/l	97
31) 2,2-Dichloropropane	7.506	77	217265	18.196	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	294852	22.396	ug/l	100
33) Carbon Tetrachloride	8.371	117	252748	21.615	ug/l	90
34) Benzene	8.612	78	688835	22.037	ug/l	98
35) Methacrylonitrile	7.782	41	82896	18.351	ug/l	90
36) 1,2-Dichloroethane	8.676	62	239483	21.815	ug/l	99
37) Trichloroethene	9.359	130	155277	17.702	ug/l	95
38) Methylcyclohexane	9.606	83	183280	17.142	ug/l	98
39) 1,2-Dichloropropane	9.629	63	144144	17.202	ug/l	94
40) Dibromomethane	9.718	93	101738	17.542	ug/l	96
41) Bromodichloromethane	9.894	83	208564	17.988	ug/l	94
42) Vinyl Acetate	6.618	43	1101987	83.327	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	133616	15.712	ug/l	97
44) Isopropyl Acetate	8.694	43	291922	19.565	ug/l	100
45) 1,4-Dioxane	9.700	88	43244	315.078	ug/l #	94
46) Methyl methacrylate	9.688	41	113559	16.620	ug/l	98
47) n-amyl Acetate	12.500	43	191202	16.639	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	214028	17.295	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	235589	17.924	ug/l	94
50) 1,1,2-Trichloroethane	11.023	97	142955	17.413	ug/l	97
51) Ethyl methacrylate	10.882	69	192511	17.128	ug/l	94
52) 1,3-Dichloropropane	11.170	76	235681	15.972	ug/l	99
53) Dibromochloromethane	11.365	129	161706	17.436	ug/l	98
54) 1,2-Dibromoethane	11.476	107	140842	17.085	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	358220	100.017	ug/l	98
56) Bromoform	12.582	173	107865	17.775	ug/l	99
58) 4-Methyl-2-Pentanone	10.453	43	745360	96.799	ug/l	100
59) 2-Hexanone	11.200	43	535181	91.794	ug/l	98
61) Tetrachloroethene	11.106	164	143907	21.273	ug/l	89
62) Toluene	10.635	91	711297	22.987	ug/l	100
64) Chlorobenzene	11.900	112	380148	21.042	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.964	131	153171	21.498	ug/l	98
66) Ethyl Benzene	11.970	91	668711	21.442	ug/l	98
67) m/p-Xylenes	12.076	106	510463	42.850	ug/l	99
68) o-Xylene	12.400	106	243234	20.066	ug/l	99
69) Styrene	12.417	104	393432	20.173	ug/l	99
70) Isopropylbenzene	12.700	105	628491	20.959	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	190828	19.590	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	174020m	21.296	ug/l	
73) Bromobenzene	12.988	156	148931	20.263	ug/l	95
74) n-propylbenzene	13.041	91	687083	20.673	ug/l	99
75) 2-Chlorotoluene	13.129	91	434546	18.932	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	500985	18.712	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	54651	19.136	ug/l	85
78) 4-Chlorotoluene	13.223	91	394838	17.816	ug/l	97
79) tert-butylbenzene	13.441	119	427966	18.572	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	487213	19.054	ug/l	97
81) sec-Butylbenzene	13.623	105	540484	18.299	ug/l	98
82) p-Isopropyltoluene	13.735	119	442436	18.246	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	241568	18.534	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	231146	18.943	ug/l	99
85) n-Butylbenzene	14.058	91	306804	18.246	ug/l	99
86) Hexachloroethane	14.341	117	86270	19.527	ug/l	93
87) 1,2-Dichlorobenzene	14.111	146	236294	19.371	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	29097	17.589	ug/l	95
89) 1,2,4-Trichlorobenzene	15.400	180	67682	19.447	ug/l	98
90) Hexachlorobutadiene	15.511	225	53409	20.144	ug/l	96
91) Naphthalene	15.647	128	175220	16.619	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	76339	19.274	ug/l	97

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

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