

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041024\
 Data File : VN081686.D
 Acq On : 10 Apr 2024 17:17
 Operator : JC\MD
 Sample : VN0410WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0410WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/11/2024
 Supervised By : Mahesh Dadoda 04/11/2024

Quant Time: Apr 11 09:27:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	26911	30.000	ug/l	#-0.01
28) 1,4-Difluorobenzene	9.100	114	195254	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	242030	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	100746	30.474	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.567%			
60) 4-Bromofluorobenzene	12.853	95	144260	30.317	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.067%			
63) Toluene-d8	10.570	98	296551	30.546	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.833%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	65538	17.429	ug/l	98
3) Chloromethane	2.365	50	64896	19.892	ug/l	100
4) Vinyl Chloride	2.512	62	55367	16.504	ug/l	99
5) Bromomethane	2.965	94	41842	14.728	ug/l	96
6) Chloroethane	3.130	64	46856	17.845	ug/l #	88
7) Trichlorofluoromethane	3.500	101	113270	20.566	ug/l	97
8) Diethyl Ether	3.959	74	35598	17.329	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	64427	17.051	ug/l	74
10) 1,1-Dichloroethene	4.347	96	57377	16.557	ug/l	95
11) Methyl Iodide	4.589	142	57515	14.656	ug/l	90
12) Methyl Acetate	5.024	43	53751	16.892	ug/l #	77
13) Acrolein	4.183	56	35873	85.598	ug/l	97
14) Acrylonitrile	5.718	53	134532	84.935	ug/l	99
15) Acetone	4.430	58	31615	90.750	ug/l	71
16) Carbon Disulfide	4.712	76	167800	17.029	ug/l #	88
17) Allyl chloride	5.024	41	67997	16.220	ug/l	90
18) Methylene Chloride	5.283	84	68522	17.172	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	65429	17.217	ug/l	90
20) Diisopropyl ether	6.671	45	167792	16.812	ug/l	95
21) 1,1-Dichloroethane	6.565	63	116070	17.443	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	76524	16.675	ug/l	95
23) tert-Butyl Alcohol	5.518	59	46869	83.354	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	181493	16.746	ug/l #	91
25) Chloroform	7.971	83	129768	17.140	ug/l	99
26) Cyclohexane	8.259	56	88114	16.518	ug/l #	87
29) 1,1-Dichloropropene	8.371	75	85066	16.572	ug/l	97
30) 2-Butanone	7.488	43	155415	79.276	ug/l #	97
31) 2,2-Dichloropropane	7.494	77	103994	16.265	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	117319	16.583	ug/l	99
33) Carbon Tetrachloride	8.365	117	102136	15.927	ug/l	96
34) Benzene	8.606	78	268966	16.265	ug/l	99
35) Methacrylonitrile	7.777	41	36567	16.468	ug/l	98
36) 1,2-Dichloroethane	8.665	62	89472	16.496	ug/l #	90
37) Trichloroethene	9.353	130	70632	16.142	ug/l	97
38) Methylcyclohexane	9.600	83	98755	15.740	ug/l	97
39) 1,2-Dichloropropane	9.623	63	62445	16.187	ug/l	98
40) Dibromomethane	9.712	93	50755	16.517	ug/l	94
41) Bromodichloromethane	9.888	83	102006	16.278	ug/l	93
42) Vinyl Acetate	6.606	43	657953	80.564	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	63030	14.588	ug/l #	92
44) Isopropyl Acetate	8.694	43	112511	15.541	ug/l	99
45) 1,4-Dioxane	9.688	88	27597	345.328	ug/l	90
46) Methyl methacrylate	9.682	41	51202	15.728	ug/l	95
47) n-amyl Acetate	12.494	43	96643	14.877	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	94440	15.819	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	105364	16.388	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	68406	16.625	ug/l	98
51) Ethyl methacrylate	10.876	69	89119	15.555	ug/l	95
52) 1,3-Dichloropropane	11.165	76	107419	15.927	ug/l	98
53) Dibromochloromethane	11.359	129	77697	15.807	ug/l	98
54) 1,2-Dibromoethane	11.470	107	69550	16.352	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	254444	90.436	ug/l	97
56) Bromoform	12.582	173	48630	15.473	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	352902	84.787	ug/l	94
59) 2-Hexanone	11.194	43	262083	83.844	ug/l	92
61) Tetrachloroethene	11.106	164	77815	17.351	ug/l	99
62) Toluene	10.635	91	299374	17.002	ug/l	97
64) Chlorobenzene	11.894	112	190242	17.039	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.959	131	65082	16.047	ug/l	96
66) Ethyl Benzene	11.964	91	306656	16.380	ug/l	99
67) m/p-Xylenes	12.070	106	249086	33.589	ug/l	96
68) o-Xylene	12.400	106	118079	16.773	ug/l	93
69) Styrene	12.412	104	198497	16.556	ug/l	96
70) Isopropylbenzene	12.700	105	307352	16.923	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	84092	17.725	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	68202m	15.528	ug/l	
73) Bromobenzene	12.982	156	74289	16.508	ug/l	92
74) n-propylbenzene	13.035	91	358776	16.503	ug/l	97
75) 2-Chlorotoluene	13.129	91	216962	16.751	ug/l	93
76) 1,3,5-Trimethylbenzene	13.176	105	255904	16.601	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	29107	16.002	ug/l	85
78) 4-Chlorotoluene	13.223	91	217685	16.946	ug/l	94
79) tert-butylbenzene	13.441	119	217435	16.580	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	259136	16.856	ug/l	96
81) sec-Butylbenzene	13.617	105	309222	16.349	ug/l	100
82) p-Isopropyltoluene	13.729	119	252982	15.949	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	143536	17.066	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	138990	17.072	ug/l	97
85) n-Butylbenzene	14.058	91	210561	15.759	ug/l	99
86) Hexachloroethane	14.335	117	49460	16.321	ug/l	83
87) 1,2-Dichlorobenzene	14.106	146	135457	16.920	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	16450	15.905	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	74947	17.080	ug/l	96
90) Hexachlorobutadiene	15.500	225	31197	17.741	ug/l	99
91) Naphthalene	15.647	128	214920	15.235	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	74947	17.080	ug/l	96

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

