

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078722.D
 Acq On : 01 Aug 2023 17:48
 Operator : JC\MD
 Sample : VN0801WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/02/2023
 Supervised By : Mahesh Dadoda 08/02/2023

Quant Time: Aug 02 04:27:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:20:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	103076	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	565796	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	498400	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	229158	29.659	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.867%		
60) 4-Bromofluorobenzene	12.853	95	213332	28.561	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.200%		
63) Toluene-d8	10.571	98	717727	29.151	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.167%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	114654	17.635	ug/l	97
3) Chloromethane	2.377	50	166504	20.805	ug/l	98
4) Vinyl Chloride	2.518	62	215248	19.790	ug/l	95
5) Bromomethane	2.959	94	144395	17.761	ug/l	90
6) Chloroethane	3.130	64	133941	18.909	ug/l	97
7) Trichlorofluoromethane	3.506	101	330251	29.601	ug/l	95
8) Diethyl Ether	3.971	74	70694	19.409	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.383	101	115754	19.329	ug/l	98
10) 1,1-Dichloroethene	4.348	96	107955	18.799	ug/l	93
11) Methyl Iodide	4.595	142	159475	19.757	ug/l	97
12) Methyl Acetate	5.042	43	174747	18.761	ug/l	97
13) Acrolein	4.195	56	93754	94.520	ug/l	97
14) Acrylonitrile	5.736	53	252503	92.576	ug/l	99
15) Acetone	4.448	58	70902	89.721	ug/l	94
16) Carbon Disulfide	4.724	76	296056	18.251	ug/l	95
17) Allyl chloride	5.036	41	142102	18.123	ug/l	97
18) Methylene Chloride	5.295	84	127606	18.522	ug/l #	94
19) trans-1,2-Dichloroethene	5.800	96	118444	17.839	ug/l	98
20) Diisopropyl ether	6.683	45	329022	18.637	ug/l	98
21) 1,1-Dichloroethane	6.583	63	220349	18.849	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	139689	18.734	ug/l	99
23) tert-Butyl Alcohol	5.547	59	109290	98.058	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	357724	18.525	ug/l	97
25) Chloroform	7.977	83	240827	19.458	ug/l	100
26) Cyclohexane	8.259	56	165477	19.217	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	170894	20.527	ug/l	98
30) 2-Butanone	7.494	43	338710	102.919	ug/l	98
31) 2,2-Dichloropropane	7.506	77	193453	20.250	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	213640	20.283	ug/l	98
33) Carbon Tetrachloride	8.365	117	191514	20.471	ug/l	96
34) Benzene	8.618	78	515045	20.595	ug/l	99
35) Methacrylonitrile	7.788	41	75966	21.020	ug/l	90
36) 1,2-Dichloroethane	8.683	62	184263	20.980	ug/l	100
37) Trichloroethene	9.359	130	133340	19.000	ug/l	97
38) Methylcyclohexane	9.612	83	166348	19.447	ug/l	99
39) 1,2-Dichloropropane	9.630	63	132159	19.713	ug/l	93
40) Dibromomethane	9.718	93	95294	20.537	ug/l	95
41) Bromodichloromethane	9.894	83	193681	20.879	ug/l	98
42) Vinyl Acetate	6.618	43	1053126	99.532	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	140953	20.717	ug/l	# 79
44) Isopropyl Acetate	8.694	43	245277	20.547	ug/l	99
45) 1,4-Dioxane	9.700	88	48128	438.293	ug/l	98
46) Methyl methacrylate	9.688	41	114681	20.979	ug/l	96
47) n-amyl Acetate	12.500	43	179675	19.543	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	192739	19.467	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	204643	19.460	ug/l	96
50) 1,1,2-Trichloroethane	11.024	97	127447	19.403	ug/l	95
51) Ethyl methacrylate	10.882	69	175983	19.570	ug/l	91
52) 1,3-Dichloropropane	11.171	76	211455	17.912	ug/l	99
53) Dibromochloromethane	11.365	129	145573	19.619	ug/l	95
54) 1,2-Dibromoethane	11.476	107	132434	20.079	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	305366	106.566	ug/l	99
56) Bromoform	12.582	173	98118	20.209	ug/l	94
58) 4-Methyl-2-Pentanone	10.453	43	719763	96.483	ug/l	99
59) 2-Hexanone	11.200	43	500772	88.656	ug/l	99
61) Tetrachloroethene	11.106	164	115228	17.582	ug/l	94
62) Toluene	10.635	91	573168	19.119	ug/l	99
64) Chlorobenzene	11.894	112	335224	19.152	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	135534	19.634	ug/l	99
66) Ethyl Benzene	11.971	91	582596	19.282	ug/l	98
67) m/p-Xylenes	12.076	106	442046	38.301	ug/l	99
68) o-Xylene	12.406	106	221442	18.856	ug/l	98
69) Styrene	12.418	104	344390	18.226	ug/l	99
70) Isopropylbenzene	12.700	105	546452	18.810	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	185333	19.639	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	146760m	18.538	ug/l	
73) Bromobenzene	12.982	156	136897	19.225	ug/l	95
74) n-propylbenzene	13.041	91	613232	19.045	ug/l	100
75) 2-Chlorotoluene	13.129	91	392770	17.663	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	461313	17.785	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	51044	18.449	ug/l	79
78) 4-Chlorotoluene	13.229	91	356184	16.589	ug/l	99
79) tert-butylbenzene	13.441	119	381716	17.098	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	429128	17.323	ug/l	97
81) sec-Butylbenzene	13.623	105	474667	16.588	ug/l	97
82) p-Isopropyltoluene	13.735	119	387973	16.515	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	214752	17.007	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	199766	16.898	ug/l	98
85) n-Butylbenzene	14.065	91	273576	16.793	ug/l	100
86) Hexachloroethane	14.341	117	78838	18.419	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	210713	17.829	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	28558	17.819	ug/l	97
89) 1,2,4-Trichlorobenzene	15.394	180	52903	15.690	ug/l	91
90) Hexachlorobutadiene	15.500	225	44461	17.308	ug/l	96
91) Naphthalene	15.647	128	168892	16.534	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	69812	18.193	ug/l	96

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

