

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078823.D
 Acq On : 09 Aug 2023 16:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Aug 10 05:30:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/10/2023
 Supervised By : Mahesh Dadoda 08/10/2023

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

Internal Standards						
1) Bromochloromethane	7.824	128	34629	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	189051	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	169898	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	83639	30.000	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	12.853	95	73268	30.723	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.400%			
63) Toluene-d8	10.571	98	249934	30.020	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.067%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.136	85	47466	19.885	ug/l	99
3) Chloromethane	2.371	50	56838	19.996	ug/l	96
4) Vinyl Chloride	2.518	62	55702	20.594	ug/l	99
5) Bromomethane	2.959	94	36919	18.764	ug/l	83
6) Chloroethane	3.124	64	36161	18.821	ug/l	94
7) Trichlorofluoromethane	3.506	101	76117	20.504	ug/l	98
8) Diethyl Ether	3.971	74	26470	20.052	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.383	101	40263	20.218	ug/l	89
10) 1,1-Dichloroethene	4.348	96	38239	19.828	ug/l	95
11) Methyl Iodide	4.595	142	49856	19.380	ug/l	94
12) Methyl Acetate	5.042	43	79560	18.980	ug/l	99
13) Acrolein	4.201	56	36784	82.853	ug/l	96
14) Acrylonitrile	5.730	53	108239	97.999	ug/l	70
15) Acetone	4.442	58	34853	122.471	ug/l	73
16) Carbon Disulfide	4.730	76	113617	20.352	ug/l	97
17) Allyl chloride	5.036	41	65976	19.571	ug/l	92
18) Methylene Chloride	5.289	84	46119	19.163	ug/l #	86
19) trans-1,2-Dichloroethene	5.795	96	43833	19.795	ug/l	88
20) Diisopropyl ether	6.683	45	155336	20.520	ug/l #	91
21) 1,1-Dichloroethane	6.577	63	86540	20.051	ug/l	99
22) cis-1,2-Dichloroethene	7.506	96	50372	20.524	ug/l	93
23) tert-Butyl Alcohol	5.530	59	36002	87.720	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	129631	20.083	ug/l	96
25) Chloroform	7.971	83	86640	20.221	ug/l	100
26) Cyclohexane	8.259	56	68601	20.181	ug/l #	92
29) 1,1-Dichloropropene	8.377	75	64268	20.925	ug/l	97
30) 2-Butanone	7.494	43	163276	108.460	ug/l #	90
31) 2,2-Dichloropropane	7.500	77	72094	22.763	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	74414	20.574	ug/l	95
33) Carbon Tetrachloride	8.371	117	66912	21.434	ug/l	96
34) Benzene	8.612	78	191739	20.517	ug/l	96
35) Methacrylonitrile	7.794	41	34129	19.307	ug/l	66
36) 1,2-Dichloroethane	8.683	62	70296	21.518	ug/l	98
37) Trichloroethene	9.359	130	46321	20.598	ug/l	94
38) Methylcyclohexane	9.612	83	57085	19.631	ug/l	78
39) 1,2-Dichloropropane	9.630	63	51676	20.900	ug/l	95
40) Dibromomethane	9.712	93	32871	19.965	ug/l	95
41) Bromodichloromethane	9.894	83	68217	20.562	ug/l #	97
42) Vinyl Acetate	6.618	43	490688	103.581	ug/l	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	68708	21.986	ug/l	98
44) Isopropyl Acetate	8.700	43	107819	19.214	ug/l	92
45) 1,4-Dioxane	9.700	88	16900	448.888	ug/l	87
46) Methyl methacrylate	9.688	41	51244	21.565	ug/l	82
47) n-amyl Acetate	12.500	43	76978	19.622	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	69222	20.664	ug/l	96
49) cis-1,3-Dichloropropene	10.318	75	74739	20.062	ug/l	94
50) 1,1,2-Trichloroethane	11.024	97	45075	20.148	ug/l	98
51) Ethyl methacrylate	10.877	69	64796	20.663	ug/l	74
52) 1,3-Dichloropropane	11.171	76	79926	20.806	ug/l	99
53) Dibromochloromethane	11.371	129	46145	19.762	ug/l	95
54) 1,2-Dibromoethane	11.477	107	44824	20.508	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	122967	106.328	ug/l	95
56) Bromoform	12.588	173	31977	21.876	ug/l #	92
58) 4-Methyl-2-Pentanone	10.453	43	333101	102.002	ug/l #	92
59) 2-Hexanone	11.200	43	236855	104.373	ug/l	91
61) Tetrachloroethene	11.112	164	39340	20.239	ug/l	92
62) Toluene	10.635	91	204766	20.471	ug/l	98
64) Chlorobenzene	11.894	112	119517	20.410	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	45082	19.983	ug/l	99
66) Ethyl Benzene	11.971	91	208665	20.087	ug/l	97
67) m/p-Xylenes	12.076	106	159705	41.928	ug/l	96
68) o-Xylene	12.406	106	74606	19.678	ug/l	96
69) Styrene	12.418	104	118616	20.475	ug/l	98
70) Isopropylbenzene	12.700	105	193664	20.680	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	66100	20.829	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	59417m	21.450	ug/l	
73) Bromobenzene	12.988	156	41611	18.591	ug/l	95
74) n-propylbenzene	13.041	91	211053	20.366	ug/l	99
75) 2-Chlorotoluene	13.129	91	134863	20.891	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	152635	20.521	ug/l	99
77) t-1,4-Dichloro-2-butene	12.747	75	17582	20.221	ug/l	83
78) 4-Chlorotoluene	13.229	91	123025	20.542	ug/l	98
79) tert-butylbenzene	13.447	119	125552	20.573	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	141800	20.203	ug/l	97
81) sec-Butylbenzene	13.623	105	165881	20.303	ug/l	98
82) p-Isopropyltoluene	13.735	119	123835	19.350	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	71976	20.808	ug/l	94
84) 1,4-Dichlorobenzene	13.818	146	63786	19.310	ug/l	99
85) n-Butylbenzene	14.059	91	91111	19.347	ug/l	97
86) Hexachloroethane	14.341	117	27632	20.498	ug/l	96
87) 1,2-Dichlorobenzene	14.112	146	67908	19.955	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	9445	20.954	ug/l	95
89) 1,2,4-Trichlorobenzene	15.400	180	14380	15.267	ug/l	94
90) Hexachlorobutadiene	15.512	225	12642	18.230	ug/l	99
91) Naphthalene	15.647	128	43273	14.691	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	17811	16.122	ug/l	95

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

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