

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082823\
 Data File : VN079057.D
 Acq On : 28 Aug 2023 10:35
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/29/2023
 Supervised By : Semsettin Yesilyurt 08/29/2023

Quant Time: Aug 29 05:18:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	44582	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	261815	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	234957	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	108479	30.034	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.100%			
60) 4-Bromofluorobenzene	12.853	95	101794	29.700	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.000%			
63) Toluene-d8	10.571	98	323258	29.461	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	59332	21.090	ug/l	95
3) Chloromethane	2.365	50	70612	20.944	ug/l	93
4) Vinyl Chloride	2.518	62	69027	20.686	ug/l	90
5) Bromomethane	2.930	94	46634	22.641	ug/l	95
6) Chloroethane	3.106	64	43365	19.998	ug/l	91
7) Trichlorofluoromethane	3.495	101	100884	22.447	ug/l	97
8) Diethyl Ether	3.959	74	37377	22.112	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	55502	23.646	ug/l	90
10) 1,1-Dichloroethene	4.342	96	51430	21.779	ug/l #	90
11) Methyl Iodide	4.583	142	61819	21.694	ug/l	96
12) Methyl Acetate	5.030	43	120292	21.733	ug/l	95
13) Acrolein	4.177	56	31895	82.673	ug/l	100
14) Acrylonitrile	5.718	53	155638	106.966	ug/l #	92
15) Acetone	4.430	58	69308m	155.282	ug/l	
16) Carbon Disulfide	4.706	76	139747	20.596	ug/l	99
17) Allyl chloride	5.024	41	89292	20.630	ug/l	99
18) Methylene Chloride	5.277	84	64119	22.713	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	58623	22.057	ug/l	92
20) Diisopropyl ether	6.671	45	198946	21.131	ug/l #	90
21) 1,1-Dichloroethane	6.571	63	108705	20.807	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	66668	21.917	ug/l	98
23) tert-Butyl Alcohol	5.530	59	58613	107.994	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	186492	22.248	ug/l	100
25) Chloroform	7.965	83	112347	21.346	ug/l	94
26) Cyclohexane	8.259	56	88372	23.124	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	84337	21.175	ug/l	100
30) 2-Butanone	7.488	43	254272	109.057	ug/l	99
31) 2,2-Dichloropropane	7.494	77	92584	21.034	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	98259	20.664	ug/l	99
33) Carbon Tetrachloride	8.365	117	86016	20.884	ug/l	91
34) Benzene	8.612	78	243785	20.426	ug/l	98
35) Methacrylonitrile	7.783	41	49163	19.784	ug/l	91
36) 1,2-Dichloroethane	8.671	62	88161	19.725	ug/l	97
37) Trichloroethene	9.353	130	63075	21.231	ug/l	83
38) Methylcyclohexane	9.600	83	83941	23.939	ug/l	98
39) 1,2-Dichloropropane	9.624	63	64747	20.140	ug/l	93
40) Dibromomethane	9.712	93	42632	19.783	ug/l	97
41) Bromodichloromethane	9.894	83	86466	19.952	ug/l	96
42) Vinyl Acetate	6.606	43	634145	96.467	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	89369	19.758	ug/l	100
44) Isopropyl Acetate	8.688	43	144534	18.134	ug/l	97
45) 1,4-Dioxane	9.700	88	22168	369.610	ug/l	97
46) Methyl methacrylate	9.688	41	69403	19.764	ug/l	93
47) n-amyl Acetate	12.500	43	113507	18.559	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	94875	20.555	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	98167	19.834	ug/l	97
50) 1,1,2-Trichloroethane	11.018	97	60314	20.711	ug/l	96
51) Ethyl methacrylate	10.876	69	88518	19.638	ug/l	97
52) 1,3-Dichloropropane	11.165	76	106924	20.499	ug/l	97
53) Dibromochloromethane	11.359	129	63377	19.884	ug/l	99
54) 1,2-Dibromoethane	11.476	107	61387	20.532	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	130102	62.448	ug/l	99
56) Bromoform	12.582	173	44895	19.964	ug/l #	94
58) 4-Methyl-2-Pentanone	10.447	43	453987	97.388	ug/l	100
59) 2-Hexanone	11.200	43	350879	102.732	ug/l	99
61) Tetrachloroethene	11.106	164	51881	22.805	ug/l	95
62) Toluene	10.635	91	265096	20.666	ug/l	97
64) Chlorobenzene	11.894	112	160818	20.851	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	59280	20.102	ug/l	97
66) Ethyl Benzene	11.971	91	281803	21.002	ug/l	98
67) m/p-Xylenes	12.076	106	217148	43.405	ug/l	99
68) o-Xylene	12.400	106	107076	21.707	ug/l	95
69) Styrene	12.412	104	167545	20.903	ug/l	98
70) Isopropylbenzene	12.700	105	268886	22.497	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	85168	19.009	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	69519m	18.913	ug/l	
73) Bromobenzene	12.982	156	62478	20.533	ug/l	96
74) n-propylbenzene	13.041	91	306194	22.605	ug/l	100
75) 2-Chlorotoluene	13.129	91	186703	21.727	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	219322	23.148	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	25763	18.861	ug/l	94
78) 4-Chlorotoluene	13.223	91	178062	21.629	ug/l	98
79) tert-butylbenzene	13.441	119	184571	23.053	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	217197	23.314	ug/l	99
81) sec-Butylbenzene	13.623	105	257541	24.374	ug/l	100
82) p-Isopropyltoluene	13.735	119	215293	24.956	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	108691	22.134	ug/l	95
84) 1,4-Dichlorobenzene	13.817	146	102103	21.178	ug/l	98
85) n-Butylbenzene	14.065	91	171387	25.259	ug/l	99
86) Hexachloroethane	14.341	117	40891	23.166	ug/l	94
87) 1,2-Dichlorobenzene	14.112	146	104560	20.789	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14891	18.517	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	43034	21.665	ug/l	98
90) Hexachlorobutadiene	15.506	225	25868	25.014	ug/l	95
91) Naphthalene	15.647	128	111139	19.399	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	43034	21.665	ug/l	98

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

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