

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN079987.D
 Acq On : 08 Nov 2023 12:45
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/09/2023
 Supervised By :Semsettin Yesilyurt 11/09/2023

Quant Time: Nov 09 03:44:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 08 15:03:03 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	82949	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	449663	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	434611	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	202555	29.090	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.967%	
60) 4-Bromofluorobenzene	12.853	95	217713	31.325	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	104.433%	
63) Toluene-d8	10.570	98	602416	29.254	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	97.500%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	518380	95.846	ug/l	97
3) Chloromethane	2.365	50	637089	93.506	ug/l	99
4) Vinyl Chloride	2.512	62	532779	93.574	ug/l	96
5) Bromomethane	2.942	94	280675	90.036	ug/l	98
6) Chloroethane	3.112	64	312260	94.126	ug/l	91
7) Trichlorofluoromethane	3.494	101	857552	100.359	ug/l	95
8) Diethyl Ether	3.959	74	311484	101.544	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	471648	97.699	ug/l	98
10) 1,1-Dichloroethene	4.341	96	450371	105.455	ug/l	96
11) Methyl Iodide	4.589	142	585786	103.701	ug/l	97
12) Methyl Acetate	5.018	43	1057056	95.467	ug/l	98
13) Acrolein	4.177	56	488941	522.663	ug/l	97
14) Acrylonitrile	5.718	53	1303600	495.690	ug/l	99
15) Acetone	4.424	58	481711	542.471	ug/l	77
16) Carbon Disulfide	4.712	76	1384641	94.948	ug/l	99
17) Allyl chloride	5.024	41	761643	102.062	ug/l	95
18) Methylene Chloride	5.277	84	537965	93.932	ug/l	98
19) trans-1,2-Dichloroethene	5.788	96	517590	97.776	ug/l	97
20) Diisopropyl ether	6.671	45	1785773	102.399	ug/l	98
21) 1,1-Dichloroethane	6.571	63	1032257	99.164	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	612608	99.724	ug/l	98
23) tert-Butyl Alcohol	5.518	59	344472	516.217	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	1599212	101.700	ug/l	98
25) Chloroform	7.965	83	1031536	95.998	ug/l	94
26) Cyclohexane	8.259	56	874791	106.823	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	809108	104.842	ug/l	99
30) 2-Butanone	7.482	43	2016423	547.104	ug/l	100
31) 2,2-Dichloropropane	7.494	77	877834	105.242	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	898738	102.011	ug/l	99
33) Carbon Tetrachloride	8.365	117	789609	101.967	ug/l	97
34) Benzene	8.606	78	2335273	101.864	ug/l	96
35) Methacrylonitrile	7.782	41	404465	104.672	ug/l	98
36) 1,2-Dichloroethane	8.671	62	819802	98.809	ug/l	100
37) Trichloroethene	9.353	130	563042	102.125	ug/l	95
38) Methylcyclohexane	9.606	83	813036	112.200	ug/l	99
39) 1,2-Dichloropropane	9.623	63	611745	100.816	ug/l	99
40) Dibromomethane	9.712	93	391950	99.930	ug/l	98
41) Bromodichloromethane	9.888	83	826826	101.782	ug/l	98
42) Vinyl Acetate	6.606	43	5008751	547.123	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	720304	104.036	ug/l	100
44) Isopropyl Acetate	8.688	43	1195904	106.006	ug/l	96
45) 1,4-Dioxane	9.694	88	182068	2094.171	ug/l	94
46) Methyl methacrylate	9.682	41	595134	109.741	ug/l	93
47) n-amyl Acetate	12.500	43	1058742	116.835	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	912942	110.042	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	984137	107.305	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	541504	101.209	ug/l	96
51) Ethyl methacrylate	10.876	69	872359	113.438	ug/l	94
52) 1,3-Dichloropropane	11.165	76	984839	102.958	ug/l	99
53) Dibromochloromethane	11.365	129	596528	104.220	ug/l	100
54) 1,2-Dibromoethane	11.470	107	552172	102.777	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	2138348	604.568	ug/l	99
56) Bromoform	12.582	173	404777	107.920	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	3670234	505.482	ug/l	97
59) 2-Hexanone	11.200	43	2933169	530.303	ug/l	95
61) Tetrachloroethene	11.106	164	487628	95.700	ug/l	96
62) Toluene	10.635	91	2482786	98.772	ug/l	99
64) Chlorobenzene	11.894	112	1489868	99.320	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	552357	100.381	ug/l	96
66) Ethyl Benzene	11.965	91	2832545	107.235	ug/l	100
67) m/p-Xylenes	12.076	106	2096672	213.207	ug/l	94
68) o-Xylene	12.400	106	1010266	107.179	ug/l	98
69) Styrene	12.412	104	1728113	110.751	ug/l	99
70) Isopropylbenzene	12.700	105	2564440	109.070	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	776588	96.974	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	735217m	71.671	ug/l	
73) Bromobenzene	12.982	156	591033	102.250	ug/l	95
74) n-propylbenzene	13.041	91	3111847	110.635	ug/l	99
75) 2-Chlorotoluene	13.129	91	1877699	105.027	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	2146757	110.390	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	276554	113.509	ug/l	91
78) 4-Chlorotoluene	13.223	91	1924530	108.386	ug/l	98
79) tert-butylbenzene	13.441	119	1711656	112.388	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	2168342	113.710	ug/l	99
81) sec-Butylbenzene	13.617	105	2405860	111.910	ug/l	99
82) p-Isopropyltoluene	13.735	119	2047216	117.256	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	1111067	105.488	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	1094761	105.896	ug/l	98
85) n-Butylbenzene	14.059	91	1778233	121.776	ug/l	96
86) Hexachloroethane	14.335	117	363815	107.160	ug/l	97
87) 1,2-Dichlorobenzene	14.111	146	1050320	104.379	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	149329	101.968	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	497281	106.674	ug/l	97
90) Hexachlorobutadiene	15.505	225	229963	100.095	ug/l	99
91) Naphthalene	15.647	128	1695006	113.302	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	497281	106.674	ug/l	97

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

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