

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077500.D
 Acq On : 28 Apr 2023 12:46
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

Quant Time: Apr 28 13:15:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	63108	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	498230	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	544881	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.578	65	172819	32.289	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.633%			
60) 4-Bromofluorobenzene	12.854	95	305369	32.411	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 108.033%			
63) Toluene-d8	10.566	98	562002	29.340	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.131	85	956832	159.483	ug/l	99
3) Chloromethane	2.372	50	640173	80.317	ug/l	100
4) Vinyl Chloride	2.519	62	924158	80.948	ug/l	100
5) Bromomethane	2.937	94	729717	84.823	ug/l	96
6) Chloroethane	3.119	64	626504	81.871	ug/l	99
7) Trichlorofluoromethane	3.496	101	1375718	129.416	ug/l	99
8) Diethyl Ether	3.966	74	489832	108.108	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.378	101	784539	118.023	ug/l	99
10) 1,1-Dichloroethene	4.348	96	760333	114.338	ug/l	98
11) Methyl Iodide	4.595	142	1020221	135.800	ug/l	97
12) Methyl Acetate	5.031	43	1061383	107.131	ug/l	92
13) Acrolein	4.190	56	668692	543.755	ug/l	100
14) Acrylonitrile	5.725	53	1659569	490.046	ug/l	100
15) Acetone	4.437	58	492784	401.098	ug/l	99
16) Carbon Disulfide	4.719	76	1967971	112.122	ug/l	96
17) Allyl chloride	5.031	41	798636	93.296	ug/l	93
18) Methylene Chloride	5.290	84	860925	111.485	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	841748	116.414	ug/l	96
20) Diisopropyl ether	6.684	45	1907400	93.490	ug/l	95
21) 1,1-Dichloroethane	6.578	63	1389649	107.460	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	994991	112.880	ug/l	96
23) tert-Butyl Alcohol	5.537	59	720668	478.584	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	2615283	109.242	ug/l	99
25) Chloroform	7.972	83	1615297	115.258	ug/l	97
26) Cyclohexane	8.260	56	1158238	103.074	ug/l #	93
29) 1,1-Dichloropropene	8.378	75	1179963	109.327	ug/l	98
30) 2-Butanone	7.489	43	1966796	385.351	ug/l	92
31) 2,2-Dichloropropane	7.495	77	1384884	104.525	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	1531910	115.332	ug/l	99
33) Carbon Tetrachloride	8.366	117	1306830	115.276	ug/l	96
34) Benzene	8.613	78	3526755	105.606	ug/l	97
35) Methacrylonitrile	7.783	41	423371	88.056	ug/l	95
36) 1,2-Dichloroethane	8.672	62	1187181	113.388	ug/l	98
37) Trichloroethene	9.354	130	919033	112.509	ug/l	94
38) Methylcyclohexane	9.601	83	1563035	106.778	ug/l	98
39) 1,2-Dichloropropane	9.625	63	800513	96.562	ug/l	100
40) Dibromomethane	9.713	93	649018	108.654	ug/l	99
41) Bromodichloromethane	9.889	83	1330082	111.671	ug/l	99
42) Vinyl Acetate	6.613	43	6049054	409.505	ug/l #	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	831163	88.021	ug/l	94
44) Isopropyl Acetate	8.695	43	1443023	85.350	ug/l #	100
45) 1,4-Dioxane	9.695	88	333699	1871.463	ug/l	96
46) Methyl methacrylate	9.683	41	645180	88.632	ug/l	95
47) n-amyl Acetate	12.495	43	1308049	88.530	ug/l	94
48) t-1,3-Dichloropropene	10.836	75	1433929	107.572	ug/l	96
49) cis-1,3-Dichloropropene	10.313	75	1500379	105.803	ug/l	92
50) 1,1,2-Trichloroethane	11.019	97	925616	106.685	ug/l	97
51) Ethyl methacrylate	10.877	69	1377955	103.420	ug/l	93
52) 1,3-Dichloropropane	11.166	76	1497424	103.409	ug/l	99
53) Dibromochloromethane	11.360	129	1020287	111.575	ug/l	99
54) 1,2-Dibromoethane	11.471	107	962018	110.452	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	2310230	561.599	ug/l	96
56) Bromoform	12.577	173	662508	107.854	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	4161748	407.932	ug/l #	92
59) 2-Hexanone	11.195	43	3097907	392.846	ug/l	94
61) Tetrachloroethene	11.107	164	713115	110.034	ug/l	97
62) Toluene	10.630	91	4089796	107.576	ug/l	100
64) Chlorobenzene	11.895	112	2511179	108.723	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	912668	107.455	ug/l	98
66) Ethyl Benzene	11.966	91	4642811	110.232	ug/l	98
67) m/p-Xylenes	12.071	106	3618065	219.154	ug/l	99
68) o-Xylene	12.401	106	1777662	107.632	ug/l	97
69) Styrene	12.413	104	2925997	110.577	ug/l	99
70) Isopropylbenzene	12.695	105	4705188	112.254	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	1349592	105.141	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	1110424m	127.265	ug/l	
73) Bromobenzene	12.983	156	974036	114.378	ug/l	94
74) n-propylbenzene	13.036	91	5442499	117.356	ug/l	99
75) 2-Chlorotoluene	13.130	91	3225140	116.086	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	3937818	115.427	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	435546	98.002	ug/l	97
78) 4-Chlorotoluene	13.224	91	3106412	118.333	ug/l	100
79) tert-butylbenzene	13.442	119	3344839	112.657	ug/l	97
80) 1,2,4-Trimethylbenzene	13.483	105	3905909	117.451	ug/l	99
81) sec-Butylbenzene	13.618	105	4943611	116.585	ug/l	100
82) p-Isopropyltoluene	13.730	119	4018124	118.278	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	1868069	115.696	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	1879696	119.992	ug/l	99
85) n-Butylbenzene	14.060	91	3581918	127.595	ug/l	100
86) Hexachloroethane	14.336	117	793783	109.843	ug/l	100
87) 1,2-Dichlorobenzene	14.107	146	1850738	116.981	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	272248	110.684	ug/l	94
89) 1,2,4-Trichlorobenzene	15.395	180	794723	127.704	ug/l	98
90) Hexachlorobutadiene	15.501	225	387235	121.327	ug/l	99
91) Naphthalene	15.642	128	3064993	128.921	ug/l	100
92) 1,2,3-Trichlorobenzene	15.842	180	755814	124.471	ug/l	98

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

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