

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074625.D
 Acq On : 27 Sep 2022 13:17
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Sep 28 07:20:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:17:56 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

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

Internal Standards						
1) Bromochloromethane	7.492	128	155126	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.827	114	878769	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.621	117	834727	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	432657	29.580	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.600%		
60) 4-Bromofluorobenzene	12.610	95	519425	32.035	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	106.800%		
63) Toluene-d8	10.310	98	1411487	29.979	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.998	85	830239	91.071	ug/l	98
3) Chloromethane	2.216	50	1221346	91.229	ug/l	100
4) Vinyl Chloride	2.351	62	1615293	94.244	ug/l	98
5) Bromomethane	2.716	94	857189	77.585	ug/l	91
6) Chloroethane	2.875	64	1096167	90.481	ug/l	93
7) Trichlorofluoromethane	3.228	101	1472144	92.477	ug/l	97
8) Diethyl Ether	3.675	74	757532	90.223	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.039	101	940141	93.395	ug/l	97
10) 1,1-Dichloroethene	4.016	96	953147	90.841	ug/l	94
11) Methyl Iodide	4.251	142	1290288	95.732	ug/l	95
12) Methyl Acetate	4.663	43	2138493	94.918	ug/l	99
13) Acrolein	3.887	56	879536	479.477	ug/l	100
14) Acrylonitrile	5.357	53	4444911	486.861	ug/l	99
15) Acetone	4.122	58	1102089	468.872	ug/l	99
16) Carbon Disulfide	4.357	76	2773915	93.795	ug/l	100
17) Allyl chloride	4.651	41	2058733	95.705	ug/l	96
18) Methylene Chloride	4.892	84	1237061	92.214	ug/l	94
19) trans-1,2-Dichloroethene	5.404	96	1104787	92.762	ug/l	97
20) Diisopropyl ether	6.304	45	4502759	95.928	ug/l	99
21) 1,1-Dichloroethane	6.192	63	2260232	95.348	ug/l	100
22) cis-1,2-Dichloroethene	7.151	96	1327641	91.845	ug/l	100
23) tert-Butyl Alcohol	5.175	59	1726732	458.962	ug/l #	100
24) Methyl tert-Butyl Ether	5.416	73	4218545	96.745	ug/l	97
25) Chloroform	7.657	83	2243358	95.464	ug/l	97
26) Cyclohexane	7.933	56	2006413	94.126	ug/l #	97
29) 1,1-Dichloropropene	8.063	75	1621248	98.776	ug/l	97
30) 2-Butanone	7.163	43	6155780	491.575	ug/l	100
31) 2,2-Dichloropropane	7.151	77	1906074	96.909	ug/l	99
32) 1,1,1-Trichloroethane	7.851	97	1894454	97.704	ug/l	96
33) Carbon Tetrachloride	8.051	117	1620314	99.914	ug/l	97
34) Benzene	8.310	78	5277621	97.129	ug/l #	90
35) Methacrylonitrile	7.480	41	1190634	99.939	ug/l	87
36) 1,2-Dichloroethane	8.386	62	1779795	100.310	ug/l	99
37) Trichloroethene	9.074	130	1149556	99.633	ug/l	91
38) Methylcyclohexane	9.322	83	2045050	96.267	ug/l	99
39) 1,2-Dichloropropane	9.357	63	1401389	97.411	ug/l	97
40) Dibromomethane	9.439	93	921131	99.232	ug/l	98
41) Bromodichloromethane	9.627	83	1840387	99.737	ug/l #	97
42) Vinyl Acetate	6.239	43	20469740	503.035	ug/l	99

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Manual Integrations

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Reviewed By :John Carlone 09/28/2022

Supervised By :Mahesh Dadoda 09/28/2022

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Sep 28 07:17:56 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.245	43	2382401	98.229	ug/l	98
44) Isopropyl Acetate	8.416	43	3927084	99.709	ug/l	99
45) 1,4-Dioxane	9.433	88	647612	1926.854	ug/l	99
46) Methyl methacrylate	9.427	41	1659200	101.147	ug/l	99
47) n-amyl Acetate	12.268	43	3845756	106.684	ug/l	98
48) t-1,3-Dichloropropene	10.592	75	2268908	101.287	ug/l	97
49) cis-1,3-Dichloropropene	10.063	75	2314232	99.280	ug/l	94
50) 1,1,2-Trichloroethane	10.774	97	1336979	99.068	ug/l	96
51) Ethyl methacrylate	10.639	69	2545270	100.583	ug/l	97
52) 1,3-Dichloropropane	10.921	76	2363062	98.792	ug/l	99
53) Dibromochloromethane	11.116	129	1458661	102.269	ug/l	95
54) 1,2-Dibromoethane	11.221	107	1419310	101.660	ug/l	99
55) 2-Chloroethyl vinyl ether	9.916	63	5029691	512.169	ug/l	99
56) Bromoform	12.333	173	1196193	107.296	ug/l	99
58) 4-Methyl-2-Pentanone	10.204	43	13004347	502.011	ug/l	99
59) 2-Hexanone	10.963	43	10057138	501.263	ug/l	100
61) Tetrachloroethene	10.851	164	904140	97.099	ug/l	97
62) Toluene	10.374	91	6168936	100.927	ug/l	100
64) Chlorobenzene	11.645	112	3498851	99.899	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.715	131	1318908	100.225	ug/l	99
66) Ethyl Benzene	11.721	91	6463145	99.576	ug/l	97
67) m/p-Xylenes	11.833	106	5505607	211.263	ug/l	99
68) o-Xylene	12.157	106	2798647	105.477	ug/l	97
69) Styrene	12.174	104	5028223	112.642	ug/l	99
70) Isopropylbenzene	12.457	105	7352474	108.613	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.704	83	2386601	99.318	ug/l	97
72) 1,2,3-Trichloropropane	12.762	75	1903639m	65.539	ug/l	
73) Bromobenzene	12.739	156	1438891	105.788	ug/l	98
74) n-propylbenzene	12.798	91	8167791	107.080	ug/l	100
75) 2-Chlorotoluene	12.880	91	4950907	107.000	ug/l	99
76) 1,3,5-Trimethylbenzene	12.939	105	6485526	113.627	ug/l	100
77) t-1,4-Dichloro-2-butene	12.504	75	1019070	108.156	ug/l	97
78) 4-Chlorotoluene	12.980	91	5326836	114.876	ug/l	99
79) tert-butylbenzene	13.204	119	5404202	108.219	ug/l	98
80) 1,2,4-Trimethylbenzene	13.245	105	6440072	114.237	ug/l	100
81) sec-Butylbenzene	13.380	105	8072901	114.253	ug/l	99
82) p-Isopropyltoluene	13.492	119	6851678	117.815	ug/l	99
83) 1,3-Dichlorobenzene	13.492	146	3287042	117.594	ug/l	98
84) 1,4-Dichlorobenzene	13.568	146	3253306	117.019	ug/l	99
85) n-Butylbenzene	13.821	91	5628939	113.448	ug/l	98
86) Hexachloroethane	14.086	117	1158026	103.376	ug/l	97
87) 1,2-Dichlorobenzene	13.862	146	3309788	115.757	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.480	75	527573	104.832	ug/l	98
89) 1,2,4-Trichlorobenzene	15.127	180	1297524	108.801	ug/l	98
90) Hexachlorobutadiene	15.233	225	559338	106.451	ug/l	98
91) Naphthalene	15.362	128	5443072	108.791	ug/l	99
92) 1,2,3-Trichlorobenzene	15.556	180	1291638	108.039	ug/l	99

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

