

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077273.D
 Acq On : 07 Apr 2023 12:17
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Apr 07 12:42:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 11:50:56 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	68521	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	529669	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	565419	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	175195	30.551	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.833%			
60) 4-Bromofluorobenzene	12.854	95	286299	28.656	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.533%			
63) Toluene-d8	10.572	98	613563	31.282	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	69364	11.359	ug/l	98
3) Chloromethane	2.372	50	96812	12.394	ug/l	92
4) Vinyl Chloride	2.525	62	134433	11.974	ug/l	97
5) Bromomethane	2.966	94	111318	14.620	ug/l	94
6) Chloroethane	3.125	64	93242	11.718	ug/l	96
7) Trichlorofluoromethane	3.501	101	122816	11.798	ug/l	96
8) Diethyl Ether	3.972	74	52210	11.629	ug/l	73
9) 1,1,2-Trichlorotrifluo...	4.378	101	80212	12.038	ug/l	96
10) 1,1-Dichloroethene	4.343	96	78440	11.875	ug/l #	78
11) Methyl Iodide	4.601	142	77111	9.707	ug/l	90
12) Methyl Acetate	5.031	43	110007	11.262	ug/l #	90
13) Acrolein	4.184	56	53817	42.067	ug/l	96
14) Acrylonitrile	5.731	53	192221	56.783	ug/l	98
15) Acetone	4.431	58	65645	52.768	ug/l	70
16) Carbon Disulfide	4.719	76	200309	11.387	ug/l	96
17) Allyl chloride	5.031	41	96848	11.241	ug/l	87
18) Methylene Chloride	5.290	84	91105	11.809	ug/l #	77
19) trans-1,2-Dichloroethene	5.790	96	85080	11.660	ug/l	81
20) Diisopropyl ether	6.684	45	234895	11.535	ug/l #	87
21) 1,1-Dichloroethane	6.572	63	147488	11.241	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	100799	11.347	ug/l	90
23) tert-Butyl Alcohol	5.525	59	84925m	56.619	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	277151m	11.521	ug/l	
25) Chloroform	7.972	83	160944	11.527	ug/l	99
26) Cyclohexane	8.260	56	129032	11.459	ug/l #	73
29) 1,1-Dichloropropene	8.372	75	117298	10.754	ug/l	96
30) 2-Butanone	7.489	43	265494	51.898	ug/l #	89
31) 2,2-Dichloropropane	7.495	77	142861	10.629	ug/l #	56
32) 1,1,1-Trichloroethane	8.172	97	145417	10.898	ug/l	94
33) Carbon Tetrachloride	8.366	117	120744	10.476	ug/l	96
34) Benzene	8.613	78	367270	10.956	ug/l	97
35) Methacrylonitrile	7.784	41	50292	10.365	ug/l	85
36) 1,2-Dichloroethane	8.672	62	112802	10.688	ug/l	97
37) Trichloroethene	9.354	130	90006	10.867	ug/l	96
38) Methylcyclohexane	9.607	83	160581	10.825	ug/l	91
39) 1,2-Dichloropropane	9.625	63	90210	10.848	ug/l	97
40) Dibromomethane	9.713	93	65100	10.741	ug/l	97
41) Bromodichloromethane	9.889	83	129803	10.727	ug/l	94
42) Vinyl Acetate	6.613	43	792657	53.260	ug/l #	90

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	100232	10.508	ug/l	98
44) Isopropyl Acetate	8.695	43	183413	10.706	ug/l	91
45) 1,4-Dioxane	9.695	88	37669	212.856	ug/l #	87
46) Methyl methacrylate	9.683	41	80740	11.074	ug/l	80
47) n-amyl Acetate	12.495	43	155346	10.285	ug/l	98
48) t-1,3-Dichloropropene	10.842	75	142902	10.504	ug/l	98
49) cis-1,3-Dichloropropene	10.313	75	155602	10.828	ug/l #	85
50) 1,1,2-Trichloroethane	11.019	97	94185	10.839	ug/l	96
51) Ethyl methacrylate	10.877	69	142755	10.425	ug/l	85
52) 1,3-Dichloropropane	11.166	76	161273	11.092	ug/l	99
53) Dibromochloromethane	11.366	129	95600	10.331	ug/l	98
54) 1,2-Dibromoethane	11.472	107	94893	10.756	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	177245	41.233	ug/l	96
56) Bromoform	12.577	173	62700	9.883	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	546511	55.399	ug/l #	85
59) 2-Hexanone	11.201	43	420640	55.350	ug/l #	87
61) Tetrachloroethene	11.107	164	71394	11.321	ug/l	97
62) Toluene	10.630	91	416209	11.210	ug/l	99
64) Chlorobenzene	11.895	112	252401	11.202	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.960	131	92791	11.022	ug/l	96
66) Ethyl Benzene	11.966	91	459453	11.073	ug/l	91
67) m/p-Xylenes	12.071	106	363002	22.605	ug/l	97
68) o-Xylene	12.401	106	178411	11.071	ug/l	96
69) Styrene	12.413	104	277998	10.607	ug/l	99
70) Isopropylbenzene	12.701	105	445520	10.806	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	137144	10.907	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	98700m	11.420	ug/l	
73) Bromobenzene	12.983	156	93934	11.209	ug/l	99
74) n-propylbenzene	13.036	91	491647	10.644	ug/l	98
75) 2-Chlorotoluene	13.130	91	300116	11.008	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	360103	10.630	ug/l	96
77) t-1,4-Dichloro-2-butene	12.742	75	44753	9.876	ug/l	81
78) 4-Chlorotoluene	13.224	91	284570	10.945	ug/l	98
79) tert-butylbenzene	13.442	119	315816	10.781	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	348542	10.526	ug/l	95
81) sec-Butylbenzene	13.618	105	448329	10.608	ug/l	99
82) p-Isopropyltoluene	13.736	119	355888	10.454	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	171983	10.810	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	165553	10.709	ug/l	97
85) n-Butylbenzene	14.060	91	287384	9.957	ug/l	97
86) Hexachloroethane	14.336	117	77026	10.782	ug/l	91
87) 1,2-Dichlorobenzene	14.107	146	167178	10.723	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	24774	10.563	ug/l	93
89) 1,2,4-Trichlorobenzene	15.371	180	58966	9.344	ug/l	99
90) Hexachlorobutadiene	15.465	225	34426	10.519	ug/l	97
91) Naphthalene	15.589	128	220015	9.247	ug/l	99
92) 1,2,3-Trichlorobenzene	15.754	180	56044	9.174	ug/l	99

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

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