

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020923\
 Data File : VN076597.D
 Acq On : 09 Feb 2023 19:02
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Feb 10 05:14:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:08:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/10/2023
 Supervised By : Semsettin Yesilyurt 02/10/2023

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

Internal Standards						
1) Bromochloromethane	7.816	128	28790	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.104	114	206824	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.868	117	234624	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.580	65	99212	29.238	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.467%		
60) 4-Bromofluorobenzene	12.851	95	153011	28.887	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.300%		
63) Toluene-d8	10.568	98	246171	28.575	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.267%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.140	85	586565	147.200	ug/l	99
3) Chloromethane	2.375	50	607621	126.816	ug/l	99
4) Vinyl Chloride	2.528	62	501060	119.770	ug/l	98
5) Bromomethane	2.922	94	198904	94.702	ug/l	91
6) Chloroethane	3.104	64	274536	147.430	ug/l	92
7) Trichlorofluoromethane	3.498	101	962213	135.450	ug/l	95
8) Diethyl Ether	3.969	74	334134	148.296	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.375	101	483706	141.455	ug/l	98
10) 1,1-Dichloroethene	4.345	96	455887	141.867	ug/l #	75
11) Methyl Iodide	4.592	142	701499	150.129	ug/l	85
12) Methyl Acetate	5.034	43	972561	144.221	ug/l	93
13) Acrolein	4.186	56	681046	788.485	ug/l	99
14) Acrylonitrile	5.728	53	1448643	733.237	ug/l	99
15) Acetone	4.439	58	376209m	659.861	ug/l	
16) Carbon Disulfide	4.716	76	1340553	151.791	ug/l	99
17) Allyl chloride	5.034	41	923213	149.024	ug/l	93
18) Methylene Chloride	5.281	84	529372	139.214	ug/l	91
19) trans-1,2-Dichloroethene	5.792	96	485751	147.084	ug/l	88
20) Diisopropyl ether	6.680	45	1900313	134.382	ug/l	93
21) 1,1-Dichloroethane	6.575	63	1017496	131.948	ug/l	99
22) cis-1,2-Dichloroethene	7.492	96	560279	141.644	ug/l	90
23) tert-Butyl Alcohol	5.533	59	538994	813.004	ug/l #	100
24) Methyl tert-Butyl Ether	5.804	73	1759931	152.016	ug/l	94
25) Chloroform	7.969	83	1022343	133.983	ug/l	97
26) Cyclohexane	8.263	56	936671	136.882	ug/l #	96
29) 1,1-Dichloropropene	8.380	75	769691	143.774	ug/l	95
30) 2-Butanone	7.492	43	2050483	709.585	ug/l	96
31) 2,2-Dichloropropane	7.498	77	851103	153.121	ug/l	94
32) 1,1,1-Trichloroethane	8.174	97	951198	143.206	ug/l	98
33) Carbon Tetrachloride	8.369	117	822268	143.487	ug/l	97
34) Benzene	8.610	78	2118315	128.779	ug/l #	92
35) Methacrylonitrile	7.786	41	486169	146.321	ug/l	90
36) 1,2-Dichloroethane	8.674	62	899797	142.647	ug/l #	95
37) Trichloroethene	9.357	130	502052	149.070	ug/l	90
38) Methylcyclohexane	9.604	83	914756	154.376	ug/l	92
39) 1,2-Dichloropropane	9.627	63	565242	143.993	ug/l	97
40) Dibromomethane	9.710	93	377749	146.274	ug/l	96
41) Bromodichloromethane	9.892	83	827469	152.391	ug/l #	97
42) Vinyl Acetate	6.610	43	6916605m	736.286	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	852685	144.726	ug/l	96
44) Isopropyl Acetate	8.692	43	1434516	148.002	ug/l	99
45) 1,4-Dioxane	9.698	88	237766	3009.245	ug/l	91
46) Methyl methacrylate	9.686	41	714104	152.806	ug/l	87
47) n-amyl Acetate	12.498	43	1385209	168.137	ug/l	98
48) t-1,3-Dichloropropene	10.839	75	916288	167.637	ug/l	98
49) cis-1,3-Dichloropropene	10.316	75	951556	157.484	ug/l #	86
50) 1,1,2-Trichloroethane	11.015	97	507058	144.576	ug/l	96
51) Ethyl methacrylate	10.874	69	907521	162.961	ug/l	92
52) 1,3-Dichloropropane	11.168	76	943870	144.374	ug/l	99
53) Dibromochloromethane	11.363	129	589768	161.831	ug/l	95
54) 1,2-Dibromoethane	11.474	107	535530	150.898	ug/l	99
55) 2-Chloroethyl vinyl ether	10.163	63	2047243	804.819	ug/l	98
56) Bromoform	12.580	173	400350	170.570	ug/l	99
58) 4-Methyl-2-Pentanone	10.451	43	4221139	643.578	ug/l	96
59) 2-Hexanone	11.198	43	3178115	666.436	ug/l	95
61) Tetrachloroethene	11.104	164	398204	132.772	ug/l	96
62) Toluene	10.633	91	2252094	129.466	ug/l	98
64) Chlorobenzene	11.892	112	1381220	137.067	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.962	131	511458	133.879	ug/l	98
66) Ethyl Benzene	11.968	91	2635467	138.199	ug/l	100
67) m/p-Xylenes	12.074	106	1970896	275.454	ug/l	94
68) o-Xylene	12.398	106	967883	137.306	ug/l	95
69) Styrene	12.415	104	1633463	145.990	ug/l	95
70) Isopropylbenzene	12.698	105	2619916	138.691	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.939	83	799687	121.423	ug/l	98
72) 1,2,3-Trichloropropane	12.998	75	716703m	119.497	ug/l	
73) Bromobenzene	12.980	156	562183	125.420	ug/l	97
74) n-propylbenzene	13.039	91	3222852	133.023	ug/l	98
75) 2-Chlorotoluene	13.127	91	1931664	126.747	ug/l	94
76) 1,3,5-Trimethylbenzene	13.174	105	2300466	130.412	ug/l	97
77) t-1,4-Dichloro-2-butene	12.739	75	282836	155.890	ug/l	79
78) 4-Chlorotoluene	13.221	91	1976772	128.998	ug/l	94
79) tert-butylbenzene	13.439	119	1974165	131.850	ug/l	91
80) 1,2,4-Trimethylbenzene	13.486	105	2276591	130.863	ug/l	97
81) sec-Butylbenzene	13.621	105	2857120	136.277	ug/l	100
82) p-Isopropyltoluene	13.733	119	2393694	142.093	ug/l	96
83) 1,3-Dichlorobenzene	13.739	146	1097511	132.377	ug/l	95
84) 1,4-Dichlorobenzene	13.815	146	1120186	135.425	ug/l	96
85) n-Butylbenzene	14.056	91	2277305	145.575	ug/l	98
86) Hexachloroethane	14.339	117	444878	136.010	ug/l	94
87) 1,2-Dichlorobenzene	14.109	146	1096475	120.478	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.721	75	199915	148.910	ug/l	82
89) 1,2,4-Trichlorobenzene	15.398	180	612258	161.305	ug/l	98
90) Hexachlorobutadiene	15.503	225	283570	154.647	ug/l	98
91) Naphthalene	15.645	128	2146528	165.748	ug/l	99
92) 1,2,3-Trichlorobenzene	15.845	180	600218	158.438	ug/l	97

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

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