

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078714.D
 Acq On : 01 Aug 2023 13:47
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Quant Time: Aug 02 02:51:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 02:50:16 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/02/2023
 Supervised By : Mahesh Dadoda 08/02/2023

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

Internal Standards						
1) Bromochloromethane	7.824	128	113059	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	729078	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	560611	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	250132	29.362	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.867%		
60) 4-Bromofluorobenzene	12.853	95	299250	37.049	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	123.500%#		
63) Toluene-d8	10.571	98	821561	29.591	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.633%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.136	85	387777	62.003	ug/l	99
3) Chloromethane	2.371	50	485023	62.413	ug/l	96
4) Vinyl Chloride	2.518	62	560856	55.223	ug/l	95
5) Bromomethane	2.953	94	383540	49.294	ug/l	97
6) Chloroethane	3.124	64	360941	54.087	ug/l	95
7) Trichlorofluoromethane	3.506	101	671802	63.676	ug/l	96
8) Diethyl Ether	3.971	74	220539	64.728	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.389	101	360466	64.160	ug/l	70
10) 1,1-Dichloroethene	4.347	96	336626	62.423	ug/l	93
11) Methyl Iodide	4.595	142	501120	67.078	ug/l	98
12) Methyl Acetate	5.036	43	581642	73.008	ug/l	98
13) Acrolein	4.195	56	306063	325.439	ug/l	98
14) Acrylonitrile	5.736	53	857939	371.765	ug/l	98
15) Acetone	4.447	58	250608	363.352	ug/l	95
16) Carbon Disulfide	4.718	76	983808	63.861	ug/l	99
17) Allyl chloride	5.036	41	484385	64.484	ug/l	97
18) Methylene Chloride	5.294	84	414284m	71.116	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	412645	65.695	ug/l	92
20) Diisopropyl ether	6.689	45	1104426	67.087	ug/l	97
21) 1,1-Dichloroethane	6.577	63	715864	65.157	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	418431	59.991	ug/l	100
23) tert-Butyl Alcohol	5.542	59	343447	325.291	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	1258918	69.282	ug/l	98
25) Chloroform	7.977	83	669480	58.345	ug/l	97
26) Cyclohexane	8.265	56	473848	59.103	ug/l #	99
29) 1,1-Dichloropropene	8.383	75	488982	54.310	ug/l	100
30) 2-Butanone	7.494	43	1035521	292.079	ug/l	99
31) 2,2-Dichloropropane	7.500	77	588287	57.162	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	604643	52.536	ug/l	99
33) Carbon Tetrachloride	8.371	117	546389	53.872	ug/l	93
34) Benzene	8.612	78	1439832	53.049	ug/l	98
35) Methacrylonitrile	7.788	41	204269	51.779	ug/l	88
36) 1,2-Dichloroethane	8.677	62	508908	53.149	ug/l	99
37) Trichloroethene	9.359	130	452158	60.475	ug/l	99
38) Methylcyclohexane	9.612	83	564115	63.114	ug/l	98
39) 1,2-Dichloropropane	9.629	63	427670	60.045	ug/l	92
40) Dibromomethane	9.718	93	300048	59.409	ug/l	97
41) Bromodichloromethane	9.894	83	591597	58.530	ug/l	94
42) Vinyl Acetate	6.612	43	3563643	300.108	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	411863	55.100	ug/l	98
44) Isopropyl Acetate	8.694	43	696417	53.247	ug/l	99
45) 1,4-Dioxane	9.700	88	150164	1278.821	ug/l	97
46) Methyl methacrylate	9.682	41	377111	64.581	ug/l	99
47) n-amyl Acetate	12.500	43	624189	65.238	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	578320	53.872	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	626541	55.082	ug/l	98
50) 1,1,2-Trichloroethane	11.024	97	358935	49.428	ug/l	99
51) Ethyl methacrylate	10.882	69	551980	56.847	ug/l	90
52) 1,3-Dichloropropane	11.171	76	597282	45.280	ug/l	99
53) Dibromochloromethane	11.365	129	423621	52.763	ug/l	99
54) 1,2-Dibromoethane	11.476	107	369880	51.592	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	889651	287.501	ug/l	99
56) Bromoform	12.582	173	319597	63.240	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	2033154	282.705	ug/l	99
59) 2-Hexanone	11.200	43	1487953	272.569	ug/l	99
61) Tetrachloroethene	11.112	164	325689	50.810	ug/l	95
62) Toluene	10.635	91	1640512	57.014	ug/l	100
64) Chlorobenzene	11.894	112	987017	59.335	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	390453	59.119	ug/l	98
66) Ethyl Benzene	11.970	91	1766193	62.093	ug/l	99
67) m/p-Xylenes	12.076	106	1365516	126.136	ug/l	100
68) o-Xylene	12.406	106	745434	68.901	ug/l	97
69) Styrene	12.412	104	1262344	74.946	ug/l	99
70) Isopropylbenzene	12.700	105	1890852	70.297	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	582241	64.672	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	473381m	55.476	ug/l	
73) Bromobenzene	12.982	156	452662	68.028	ug/l	100
74) n-propylbenzene	13.041	91	2138608	71.874	ug/l	99
75) 2-Chlorotoluene	13.129	91	1339832	70.823	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	1536598	69.436	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	187070	74.735	ug/l	89
78) 4-Chlorotoluene	13.229	91	1346229	74.229	ug/l	98
79) tert-butylbenzene	13.441	119	1334727	69.427	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	1498769	71.338	ug/l	99
81) sec-Butylbenzene	13.623	105	1880073	76.789	ug/l	100
82) p-Isopropyltoluene	13.735	119	1468536	73.532	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	790470	74.161	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	731101	73.961	ug/l	100
85) n-Butylbenzene	14.059	91	929901	68.858	ug/l	98
86) Hexachloroethane	14.341	117	234131	60.984	ug/l	92
87) 1,2-Dichlorobenzene	14.112	146	658727	65.814	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	83410	61.200	ug/l	96
89) 1,2,4-Trichlorobenzene	15.400	180	233240	80.794	ug/l	99
90) Hexachlorobutadiene	15.506	225	142796	57.761	ug/l	98
91) Naphthalene	15.647	128	696527	77.003	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	256565	73.952	ug/l	96

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

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