

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092821\
 Data File : VN068715.D
 Acq On : 28 Sep 2021 11:13
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 9/30/2021 12:17:14 PM

Quant Time: Sep 28 12:24:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 28 12:20:08 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	106454	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	590560	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	556147	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	271573	36.778	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 122.600%#			
60) 4-Bromofluorobenzene	12.733	95	261631	28.915	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.367%			
63) Toluene-d8	10.443	98	782573	29.269	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.567%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	82121	12.911	ug/l	96
3) Chloromethane	2.303	50	140054	15.016	ug/l	99
4) Vinyl Chloride	2.443	62	175919	19.069	ug/l	98
5) Bromomethane	2.864	94	109445	19.883	ug/l	99
6) Chloroethane	3.022	64	115063	21.612	ug/l	98
7) Trichlorofluoromethane	3.376	101	223580	23.375	ug/l	98
8) Diethyl Ether	3.829	74	76655	17.480	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.221	101	120859m	20.679	ug/l	
10) 1,1-Dichloroethene	4.186	96	110829	17.802	ug/l	83
11) Methyl Iodide	4.427	142	139228	15.875	ug/l	90
12) Methyl Acetate	4.854	43	233862	31.017	ug/l	94
13) Acrolein	4.046	56	47219	46.641	ug/l	99
14) Acrylonitrile	5.556	53	356690	106.449	ug/l	98
15) Acetone	4.285	58	106252	103.640	ug/l #	42
16) Carbon Disulfide	4.537	76	318765	16.325	ug/l	97
17) Allyl chloride	4.846	41	226902	19.207	ug/l	85
18) Methylene Chloride	5.103	84	139573	19.024	ug/l	93
19) trans-1,2-Dichloroethene	5.602	96	126191	18.539	ug/l	91
20) Diisopropyl ether	6.495	45	492872	20.678	ug/l #	94
21) 1,1-Dichloroethane	6.388	63	260319	19.797	ug/l	97
22) cis-1,2-Dichloroethene	7.329	96	151452	19.364	ug/l	92
23) tert-Butyl Alcohol	5.366	59	118296	98.679	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	440547m	21.176	ug/l	
25) Chloroform	7.820	83	277350	23.246	ug/l	96
26) Cyclohexane	8.099	56	226908	18.442	ug/l #	94
29) 1,1-Dichloropropene	8.225	75	198553	20.822	ug/l	97
30) 2-Butanone	7.335	43	533372	124.943	ug/l	93
31) 2,2-Dichloropropane	7.329	77	230555	23.100	ug/l	95
32) 1,1,1-Trichloroethane	8.016	97	243630	25.759	ug/l	98
33) Carbon Tetrachloride	8.209	117	218084	27.907	ug/l	97
34) Benzene	8.461	78	591130	20.068	ug/l #	94
35) Methacrylonitrile	7.635	41	105400	23.499	ug/l	92
36) 1,2-Dichloroethane	8.531	62	231623	26.180	ug/l	96
37) Trichloroethene	9.217	130	149175	20.973	ug/l	89
38) Methylcyclohexane	9.461	83	231181	20.447	ug/l	95
39) 1,2-Dichloropropane	9.491	63	155435	19.422	ug/l	94
40) Dibromomethane	9.579	93	104498	23.037	ug/l	86
41) Bromodichloromethane	9.764	83	218125	23.742	ug/l	98
42) Vinyl Acetate	6.433	43	1910136	102.151	ug/l #	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	208337	23.826	ug/l #	92
44) Isopropyl Acetate	8.560	43	362698	23.988	ug/l	93
45) 1,4-Dioxane	9.569	88	48208	384.428	ug/l	95
46) Methyl methacrylate	9.561	41	161060	22.228	ug/l	85
47) n-amyl Acetate	12.390	43	270381	21.377	ug/l	94
48) t-1,3-Dichloropropene	10.722	75	233816	21.540	ug/l	95
49) cis-1,3-Dichloropropene	10.191	75	244968	19.919	ug/l #	85
50) 1,1,2-Trichloroethane	10.899	97	149530	22.524	ug/l	98
51) Ethyl methacrylate	10.762	69	234538	21.939	ug/l	80
52) 1,3-Dichloropropane	11.046	76	255018	21.452	ug/l	99
53) Dibromochloromethane	11.240	129	165594	24.613	ug/l	100
54) 1,2-Dibromoethane	11.347	107	156023	23.451	ug/l	96
55) 2-Chloroethyl vinyl ether	10.043	63	329623	69.394	ug/l	98
56) Bromoform	12.460	173	120777	28.421	ug/l #	93
58) 4-Methyl-2-Pentanone	10.333	43	1129113	122.228	ug/l	92
59) 2-Hexanone	11.087	43	818090	123.724	ug/l	92
61) Tetrachloroethene	10.979	164	141771	19.358	ug/l	92
62) Toluene	10.507	91	674269	20.735	ug/l	99
64) Chlorobenzene	11.771	112	406581	21.193	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	158176	23.707	ug/l	98
66) Ethyl Benzene	11.846	91	738336	21.210	ug/l	98
67) m/p-Xylenes	11.953	106	562153	43.370	ug/l	96
68) o-Xylene	12.283	106	271471	21.508	ug/l	94
69) Styrene	12.296	104	439408	21.530	ug/l	96
70) Isopropylbenzene	12.580	105	706528	21.792	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.830	83	213040	22.400	ug/l	100
72) 1,2,3-Trichloropropane	12.881	75	168897m	18.129	ug/l	
73) Bromobenzene	12.862	156	168328	23.047	ug/l	83
74) n-propylbenzene	12.924	91	815811	21.769	ug/l	96
75) 2-Chlorotoluene	13.010	91	493269	21.727	ug/l	94
76) 1,3,5-Trimethylbenzene	13.061	105	590811	21.762	ug/l	97
77) t-1,4-Dichloro-2-butene	12.626	75	64070	17.613	ug/l	82
78) 4-Chlorotoluene	13.106	91	474406	21.006	ug/l	95
79) tert-butylbenzene	13.326	119	509783	22.736	ug/l	94
80) 1,2,4-Trimethylbenzene	13.369	105	572987	21.088	ug/l	99
81) sec-Butylbenzene	13.503	105	708473	23.662	ug/l	98
82) p-Isopropyltoluene	13.618	119	572449	21.468	ug/l	96
83) 1,3-Dichlorobenzene	13.618	146	285893	22.374	ug/l	97
84) 1,4-Dichlorobenzene	13.696	146	271812	21.687	ug/l	97
85) n-Butylbenzene	13.943	91	454818	19.551	ug/l	97
86) Hexachloroethane	14.211	117	109654	23.691	ug/l	82
87) 1,2-Dichlorobenzene	13.989	146	272001	21.298	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.605	75	39186	21.377	ug/l #	74
89) 1,2,4-Trichlorobenzene	15.265	180	131020	19.673	ug/l	96
90) Hexachlorobutadiene	15.372	225	78530	26.001	ug/l	99
91) Naphthalene	15.509	128	313286	14.695	ug/l	98
92) 1,2,3-Trichlorobenzene	15.702	180	127484	19.081	ug/l	98

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

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