

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100521\
 Data File : VN068810.D
 Acq On : 5 Oct 2021 18:16
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/6/2021 7:02:50 PM

Quant Time: Oct 06 01:35:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 29 08:56:32 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	97283	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	552848	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	527832	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	243404	32.46	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	108.20%	
60) 4-Bromofluorobenzene	12.733	95	235354	28.54	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	95.13%	
63) Toluene-d8	10.443	98	740045	31.02	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	103.40%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	73471	17.03	ug/l	97
3) Chloromethane	2.303	50	103176	18.69	ug/l	97
4) Vinyl Chloride	2.445	62	206179	19.16	ug/l	99
5) Bromomethane	2.850	94	199790	19.12	ug/l	98
6) Chloroethane	3.017	64	180992	20.69	ug/l	98
7) Trichlorofluoromethane	3.373	101	178721	19.90	ug/l	99
8) Diethyl Ether	3.829	74	64783	21.07	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.221	101	98283	18.91	ug/l	53
10) 1,1-Dichloroethene	4.189	96	90702	18.91	ug/l	95
11) Methyl Iodide	4.427	142	121741	21.04	ug/l	95
12) Methyl Acetate	4.854	43	171526	20.70	ug/l	98
13) Acrolein	4.044	56	24758	71.18	ug/l	99
14) Acrylonitrile	5.554	53	276447	103.90	ug/l	100
15) Acetone	4.288	58	68887	93.47	ug/l	98
16) Carbon Disulfide	4.532	76	229803	17.69	ug/l	99
17) Allyl chloride	4.843	41	144555	18.96	ug/l	99
18) Methylene Chloride	5.103	84	119024	19.75	ug/l	97
19) trans-1,2-Dichloroethene	5.605	96	107818	19.02	ug/l	99
20) Diisopropyl ether	6.498	45	364287	20.55	ug/l	97
21) 1,1-Dichloroethane	6.391	63	205699	19.99	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	137235	19.89	ug/l	96
23) tert-Butyl Alcohol	5.366	59	104853	106.21	ug/l #	100
24) Methyl tert-Butyl Ether	5.613	73	381851	20.26	ug/l	99
25) Chloroform	7.820	83	246711	20.34	ug/l	96
26) Cyclohexane	8.096	56	165531	18.48	ug/l #	98
29) 1,1-Dichloropropene	8.222	75	162811	18.53	ug/l	97
30) 2-Butanone	7.332	43	395746	100.29	ug/l	100
31) 2,2-Dichloropropane	7.327	77	179965	17.83	ug/l #	74
32) 1,1,1-Trichloroethane	8.016	97	220950	19.62	ug/l	97
33) Carbon Tetrachloride	8.209	117	193880	19.37	ug/l	97
34) Benzene	8.461	78	511196	19.61	ug/l	97
35) Methacrylonitrile	7.638	41	80413	20.34	ug/l	94
36) 1,2-Dichloroethane	8.531	62	206610	21.19	ug/l	99
37) Trichloroethene	9.217	130	132615	19.24	ug/l	96
38) Methylcyclohexane	9.461	83	187047	17.20	ug/l	98
39) 1,2-Dichloropropane	9.491	63	131162	20.32	ug/l	98
40) Dibromomethane	9.579	93	103253	20.26	ug/l	98
41) Bromodichloromethane	9.762	83	204173	20.44	ug/l	93
42) Vinyl Acetate	6.436	43	1454309m	99.53	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	163952	20.78	ug/l #	80
44) Isopropyl Acetate	8.563	43	291301	20.39	ug/l	99
45) 1,4-Dioxane	9.569	88	50504	436.60	ug/l	99
46) Methyl methacrylate	9.561	41	124556	19.71	ug/l	99
47) n-amyl Acetate	12.390	43	234331	19.37	ug/l	100
48) t-1,3-Dichloropropene	10.719	75	206335	19.01	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	212314	19.13	ug/l	99
50) 1,1,2-Trichloroethane	10.899	97	144979	20.53	ug/l	98
51) Ethyl methacrylate	10.762	69	208291	19.58	ug/l	99
52) 1,3-Dichloropropane	11.046	76	234195	20.49	ug/l	98
53) Dibromochloromethane	11.240	129	156149	19.47	ug/l	99
54) 1,2-Dibromoethane	11.347	107	146993	19.84	ug/l	98
55) 2-Chloroethyl vinyl ether	10.043	63	212011	71.39	ug/l	99
56) Bromoform	12.460	173	108677	18.79	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	934529	104.89	ug/l	99
59) 2-Hexanone	11.087	43	659339	101.60	ug/l	99
61) Tetrachloroethene	10.979	164	118814	19.21	ug/l	98
62) Toluene	10.507	91	616644	19.54	ug/l	99
64) Chlorobenzene	11.771	112	371419	19.18	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	148560	19.78	ug/l	99
66) Ethyl Benzene	11.846	91	672195	18.90	ug/l	98
67) m/p-Xylenes	11.956	106	522756	38.07	ug/l	99
68) o-Xylene	12.283	106	255766	18.92	ug/l	98
69) Styrene	12.296	104	418854	18.77	ug/l	99
70) Isopropylbenzene	12.581	105	670779	18.71	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	209878	20.78	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	169874m	20.76	ug/l	
73) Bromobenzene	12.862	156	152198	18.76	ug/l	99
74) n-propylbenzene	12.921	91	762007	18.54	ug/l	100
75) 2-Chlorotoluene	13.010	91	456928	19.05	ug/l	99
76) 1,3,5-Trimethylbenzene	13.061	105	560685	18.94	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	56636	17.75	ug/l	97
78) 4-Chlorotoluene	13.106	91	432876	18.22	ug/l	99
79) tert-butylbenzene	13.326	119	485244	18.78	ug/l	100
80) 1,2,4-Trimethylbenzene	13.369	105	554582m	18.90	ug/l	
81) sec-Butylbenzene	13.503	105	681134	18.39	ug/l	100
82) p-Isopropyltoluene	13.618	119	548518	17.88	ug/l	100
83) 1,3-Dichlorobenzene	13.618	146	273261	18.15	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	258613	18.06	ug/l	98
85) n-Butylbenzene	13.946	91	430659	17.06	ug/l	98
86) Hexachloroethane	14.211	117	106887	18.51	ug/l	99
87) 1,2-Dichlorobenzene	13.989	146	270595	19.44	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.605	75	36682	20.31	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	112531	16.46	ug/l	97
90) Hexachlorobutadiene	15.373	225	61771	18.12	ug/l	95
91) Naphthalene	15.509	128	308499	15.98	ug/l	98
92) 1,2,3-Trichlorobenzene	15.702	180	113088	17.25	ug/l	99

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

