

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066673.D
 Acq On : 20 Apr 2021 11:06
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 4/21/2021 4:34:43 PM

Quant Time: Apr 20 11:45:08 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 20 11:43:24 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.114	128	47381	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	244581	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	233815	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	103863	25.54	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	85.13%#		
60) 4-Bromofluorobenzene	12.346	95	106703	29.98	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.93%		
63) Toluene-d8	10.029	98	326547	29.42	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.07%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.836	85	43769	14.22	ug/l	97
3) Chloromethane	2.034	50	68697	15.28	ug/l	100
4) Vinyl Chloride	2.163	62	64014	15.62	ug/l	99
5) Bromomethane	2.517	94	39258	14.58	ug/l	91
6) Chloroethane	2.659	64	39462	14.58	ug/l	95
7) Trichlorofluoromethane	2.975	101	71192	12.80	ug/l	99
8) Diethyl Ether	3.356	74	30932	14.43	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.697	101	44519	14.86	ug/l	99
10) 1,1-Dichloroethene	3.673	96	44190	15.10	ug/l	94
11) Methyl Iodide	3.887	142	67301	17.77	ug/l	96
12) Methyl Acetate	4.255	43	63626	11.20	ug/l	96
13) Acrolein	3.547	56	44874	67.81	ug/l	97
14) Acrylonitrile	4.898	53	137084	81.63	ug/l	99
15) Acetone	3.756	58	37222	63.34	ug/l	85
16) Carbon Disulfide	3.984	76	138481	13.86	ug/l	99
17) Allyl chloride	4.249	41	89207	12.47	ug/l	91
18) Methylene Chloride	4.472	84	57869	16.40	ug/l	96
19) trans-1,2-Dichloroethene	4.955	96	50973	17.10	ug/l	96
20) Diisopropyl ether	5.864	45	186467	16.09	ug/l	95
21) 1,1-Dichloroethane	5.759	63	99644	16.02	ug/l	99
22) cis-1,2-Dichloroethene	6.741	96	58507	17.79	ug/l	99
23) tert-Butyl Alcohol	4.708	59	46568	81.62	ug/l #	100
24) Methyl tert-Butyl Ether	4.957	73	153021	16.57	ug/l	97
25) Chloroform	7.293	83	96766	15.91	ug/l	94
26) Cyclohexane	7.578	56	82901	15.01	ug/l #	95
29) 1,1-Dichloropropene	7.720	75	68951	15.08	ug/l	98
30) 2-Butanone	6.746	43	174484	68.71	ug/l	99
31) 2,2-Dichloropropane	6.736	77	81565	14.61	ug/l	99
32) 1,1,1-Trichloroethane	7.492	97	80040	14.47	ug/l	99
33) Carbon Tetrachloride	7.698	117	66844	14.39	ug/l	94
34) Benzene	7.969	78	228115	16.20	ug/l	100
35) Methacrylonitrile	7.092	41	33899	13.30	ug/l	94
36) 1,2-Dichloroethane	8.052	62	76622	14.00	ug/l	100
37) Trichloroethene	8.768	130	52836	16.37	ug/l	98
38) Methylcyclohexane	9.015	83	78883	16.58	ug/l	95
39) 1,2-Dichloropropane	9.053	63	62976	15.86	ug/l	100
40) Dibromomethane	9.144	93	37955	15.41	ug/l	98
41) Bromodichloromethane	9.340	83	79330	14.96	ug/l	97
42) Vinyl Acetate	5.808	43	764915	75.64	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.843	43	77473	13.42	ug/l #	83
44) Isopropyl Acetate	8.095	43	124623	14.10	ug/l #	88
45) 1,4-Dioxane	9.136	88	19438	366.42	ug/l	98
46) Methyl methacrylate	9.136	41	56217	13.92	ug/l	93
47) n-amyl Acetate	12.032	43	20474	8.51	ug/l #	77
48) t-1,3-Dichloropropene	10.321	75	83322	15.84	ug/l	99
49) cis-1,3-Dichloropropene	9.777	75	91945	16.28	ug/l	93
50) 1,1,2-Trichloroethane	10.501	97	55814	16.40	ug/l	97
51) Ethyl methacrylate	10.372	69	72439	16.57	ug/l	95
52) 1,3-Dichloropropane	10.646	76	93639	16.15	ug/l	99
53) Dibromochloromethane	10.842	129	59788	16.16	ug/l	100
54) 1,2-Dibromoethane	10.946	107	55808	16.69	ug/l	99
55) 2-Chloroethyl vinyl ether	9.635	63	52632	113.39	ug/l	99
56) Bromoform	12.073	173	42680	17.32	ug/l #	99
58) 4-Methyl-2-Pentanone	9.922	43	379145	73.33	ug/l	99
59) 2-Hexanone	10.694	43	234906	70.89	ug/l	99
61) Tetrachloroethene	10.571	164	47828	16.90	ug/l	98
62) Toluene	10.093	91	243000	17.06	ug/l	99
64) Chlorobenzene	11.375	112	144776	17.37	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.450	131	54386	16.21	ug/l	97
66) Ethyl Benzene	11.453	91	251160	17.09	ug/l	99
67) m/p-Xylenes	11.566	106	191111	34.90	ug/l	99
68) o-Xylene	11.890	106	92139	18.23	ug/l	100
69) Styrene	11.909	104	143157	17.38	ug/l	98
70) Isopropylbenzene	12.193	105	240087	17.93	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.448	83	87135	17.37	ug/l	98
72) 1,2,3-Trichloropropane	12.499	75	69224m	15.25	ug/l	
73) Bromobenzene	12.470	156	60910	18.39	ug/l	99
74) n-propylbenzene	12.537	91	271379	17.33	ug/l	100
75) 2-Chlorotoluene	12.617	91	168947	17.29	ug/l	100
76) 1,3,5-Trimethylbenzene	12.679	105	204119	17.98	ug/l	98
77) t-1,4-Dichloro-2-butene	12.250	75	19238	18.37	ug/l	98
78) 4-Chlorotoluene	12.719	91	157952	17.45	ug/l	99
79) tert-butylbenzene	12.936	119	167359	17.95	ug/l	98
80) 1,2,4-Trimethylbenzene	12.984	105	188059	17.72	ug/l	100
81) sec-Butylbenzene	13.116	105	218419	17.29	ug/l	100
82) p-Isopropyltoluene	13.234	119	180856	17.28	ug/l	99
83) 1,3-Dichlorobenzene	13.229	146	97011	17.11	ug/l	99
84) 1,4-Dichlorobenzene	13.309	146	93626	15.60	ug/l	99
85) n-Butylbenzene	13.561	91	138569	15.09	ug/l	98
86) Hexachloroethane	13.816	117	40420	16.07	ug/l	95
87) 1,2-Dichlorobenzene	13.599	146	96494	17.38	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.221	75	12244	14.12	ug/l	97
89) 1,2,4-Trichlorobenzene	14.854	180	50807	15.63	ug/l	95
90) Hexachlorobutadiene	14.948	225	31830	16.97	ug/l	99
91) Naphthalene	15.071	128	127150	14.58	ug/l	98
92) 1,2,3-Trichlorobenzene	15.251	180	50091	15.71	ug/l	100

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

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