

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
 Data File : VN066580.D
 Acq On : 13 Apr 2021 15:18
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 4/14/2021 1:47:01 PM

Quant Time: Apr 13 15:38:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 13 14:24:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.096	128	46360	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	8.510	114	222588	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.347	117	223715	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.944	65	128209	35.98	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	119.93%#	
60) 4-Bromofluorobenzene	12.345	95	102218	29.28	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.60%	
63) Toluene-d8	10.025	98	321559	30.63	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.10%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.815	85	62791	24.22	ug/l	98
3) Chloromethane	2.017	50	84740	26.00	ug/l	98
4) Vinyl Chloride	2.143	62	79802	23.29	ug/l	100
5) Bromomethane	2.507	94	52643	21.71	ug/l	92
6) Chloroethane	2.647	64	51496	23.47	ug/l	97
7) Trichlorofluoromethane	2.955	101	114053	23.08	ug/l	96
8) Diethyl Ether	3.339	74	41253	24.72	ug/l	75
9) 1,1,2-Trichlorotrifluo...	3.669	101	59115	24.44	ug/l	90
10) 1,1-Dichloroethene	3.650	96	58168	24.29	ug/l	82
11) Methyl Iodide	3.856	142	75013	21.78	ug/l	94
12) Methyl Acetate	4.229	43	116354m	31.31	ug/l	
13) Acrolein	3.527	56	57647	223.85	ug/l	93
14) Acrylonitrile	4.876	53	154965	101.10	ug/l	98
15) Acetone	3.736	58	53187	119.16	ug/l	72
16) Carbon Disulfide	3.956	76	191283	28.85	ug/l	100
17) Allyl chloride	4.219	41	160753m	37.16	ug/l	
18) Methylene Chloride	4.441	84	60938	21.30	ug/l #	80
19) trans-1,2-Dichloroethene	4.927	96	53371	20.27	ug/l	88
20) Diisopropyl ether	5.855	45	221467	23.33	ug/l #	95
21) 1,1-Dichloroethane	5.739	63	114629	22.31	ug/l	98
22) cis-1,2-Dichloroethene	6.726	96	57608	18.28	ug/l	88
23) tert-Butyl Alcohol	4.701	59	49159m	78.12	ug/l	
24) Methyl tert-Butyl Ether	4.935	73	168549	18.46	ug/l #	82
25) Chloroform	7.279	83	112983	21.77	ug/l	96
26) Cyclohexane	7.566	56	83328	18.28	ug/l #	100
29) 1,1-Dichloropropene	7.705	75	78963	23.72	ug/l	94
30) 2-Butanone	6.745	43	216826	111.14	ug/l #	89
31) 2,2-Dichloropropane	6.721	77	93653	22.71	ug/l #	56
32) 1,1,1-Trichloroethane	7.480	97	97121	24.07	ug/l	98
33) Carbon Tetrachloride	7.684	117	82446	24.20	ug/l	96
34) Benzene	7.957	78	237266	23.39	ug/l #	91
35) Methacrylonitrile	7.078	41	37316	22.61	ug/l	96
36) 1,2-Dichloroethane	8.043	62	95958m	25.82	ug/l	
37) Trichloroethene	8.762	130	52859	19.98	ug/l	93
38) Methylcyclohexane	9.009	83	75022	18.22	ug/l	86
39) 1,2-Dichloropropane	9.043	63	65515	23.86	ug/l	97
40) Dibromomethane	9.137	93	42044	23.81	ug/l	91
41) Bromodichloromethane	9.333	83	92595	24.78	ug/l	97
42) Vinyl Acetate	5.793	43	940162	127.86	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.839	43	90290	24.03	ug/l #	94
44) Isopropyl Acetate	8.089	43	154673	23.05	ug/l #	82
45) 1,4-Dioxane	9.135	88	16675	389.58	ug/l #	88
46) Methyl methacrylate	9.135	41	69679	22.24	ug/l	89
47) n-amyl Acetate	12.023	43	39066	14.40	ug/l	91
48) t-1,3-Dichloropropene	10.320	75	89808	22.12	ug/l	98
49) cis-1,3-Dichloropropene	9.776	75	95842	21.97	ug/l	94
50) 1,1,2-Trichloroethane	10.500	97	56724	22.45	ug/l	97
51) Ethyl methacrylate	10.371	69	71354	18.04	ug/l	91
52) 1,3-Dichloropropane	10.645	76	97056	23.04	ug/l	100
53) Dibromochloromethane	10.840	129	61420	21.63	ug/l	100
54) 1,2-Dibromoethane	10.945	107	56371	21.68	ug/l	98
55) 2-Chloroethyl vinyl ether	9.628	63	34086	57.97	ug/l	97
56) Bromoform	12.069	173	39924	19.17	ug/l #	97
58) 4-Methyl-2-Pentanone	9.920	43	464801	103.70	ug/l #	92
59) 2-Hexanone	10.693	43	301655	97.80	ug/l	91
61) Tetrachloroethene	10.569	164	47655	15.47	ug/l	93
62) Toluene	10.089	91	243507	19.66	ug/l	99
64) Chlorobenzene	11.374	112	140299	19.28	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.449	131	57373	20.10	ug/l	98
66) Ethyl Benzene	11.452	91	244446	18.32	ug/l	96
67) m/p-Xylenes	11.562	106	186127	37.54	ug/l	96
68) o-Xylene	11.889	106	87333	17.85	ug/l	98
69) Styrene	11.905	104	144744	18.46	ug/l	99
70) Isopropylbenzene	12.192	105	227296	17.65	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.447	83	83700	20.30	ug/l	97
72) 1,2,3-Trichloropropane	12.498	75	76045m	19.10	ug/l	
73) Bromobenzene	12.468	156	55909	17.62	ug/l	88
74) n-propylbenzene	12.535	91	266933	18.75	ug/l	98
75) 2-Chlorotoluene	12.616	91	168467	19.55	ug/l	93
76) 1,3,5-Trimethylbenzene	12.677	105	192407	18.16	ug/l	97
77) t-1,4-Dichloro-2-butene	12.243	75	19352	14.99	ug/l	98
78) 4-Chlorotoluene	12.718	91	160654	19.01	ug/l	98
79) tert-butylbenzene	12.935	119	157992	17.15	ug/l	97
80) 1,2,4-Trimethylbenzene	12.983	105	182480	17.75	ug/l	99
81) sec-Butylbenzene	13.117	105	211857	18.01	ug/l	99
82) p-Isopropyltoluene	13.233	119	180194	17.40	ug/l	96
83) 1,3-Dichlorobenzene	13.227	146	96019	18.45	ug/l	97
84) 1,4-Dichlorobenzene	13.310	146	84286	16.64	ug/l	97
85) n-Butylbenzene	13.563	91	143500	16.98	ug/l	96
86) Hexachloroethane	13.815	117	41077	21.48	ug/l	84
87) 1,2-Dichlorobenzene	13.597	146	94810	18.41	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.244	75	15305m	18.19	ug/l	
89) 1,2,4-Trichlorobenzene	14.981	180	50137	15.26	ug/l	100
90) Hexachlorobutadiene	15.102	225	29293	16.45	ug/l	94
91) Naphthalene	15.266	128	125443	12.54	ug/l	96
92) 1,2,3-Trichlorobenzene	15.504	180	49480	15.38	ug/l	96

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

