

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032421\
 Data File : VN066311.D
 Acq On : 24 Mar 2021 14:52
 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
 3/30/2021 10:41:08 AM

Quant Time: Mar 25 04:38:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 25 04:35:34 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.107	128	79987	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.515	114	442629	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.350	117	400913	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.952	65	187035	27.47	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	91.57%	
60) 4-Bromofluorobenzene	12.345	95	187495	27.40	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	91.33%	
63) Toluene-d8	10.028	98	557940	30.82	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.73%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.818	85	88914	21.68	ug/l	100
3) Chloromethane	2.017	50	110750	20.52	ug/l	100
4) Vinyl Chloride	2.145	62	117526	20.70	ug/l	100
5) Bromomethane	2.510	94	80243	20.41	ug/l	100
6) Chloroethane	2.647	64	74580	22.00	ug/l	100
7) Trichlorofluoromethane	2.961	101	164931	19.41	ug/l	100
8) Diethyl Ether	3.342	74	57695	19.87	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.685	101	82863	22.47	ug/l	100
10) 1,1-Dichloroethene	3.661	96	79907	19.74	ug/l	100
11) Methyl Iodide	3.875	142	121805	19.36	ug/l	100
12) Methyl Acetate	4.235	43	133118	27.69	ug/l	100
13) Acrolein	3.535	56	36974	54.14	ug/l	100
14) Acrylonitrile	4.876	53	266653	119.74	ug/l	100
15) Acetone	3.736	58	72135	113.84	ug/l	100
16) Carbon Disulfide	3.974	76	226904	19.18	ug/l	100
17) Allyl chloride	4.235	41	158753	21.27	ug/l	100
18) Methylene Chloride	4.457	84	98848	19.74	ug/l	100
19) trans-1,2-Dichloroethene	4.943	96	89448	19.47	ug/l	100
20) Diisopropyl ether	5.855	45	328413	22.38	ug/l	100
21) 1,1-Dichloroethane	5.750	63	178189	19.90	ug/l	100
22) cis-1,2-Dichloroethene	6.734	96	108449	19.35	ug/l	100
23) tert-Butyl Alcohol	4.680	59	113563	116.12	ug/l #	100
24) Methyl tert-Butyl Ether	4.937	73	314886	19.29	ug/l	100
25) Chloroform	7.287	83	180442	18.84	ug/l	100
26) Cyclohexane	7.574	56	156685	22.18	ug/l #	100
29) 1,1-Dichloropropene	7.713	75	128493	19.48	ug/l	100
30) 2-Butanone	6.734	43	379656	131.16	ug/l	100
31) 2,2-Dichloropropane	6.729	77	160886	18.85	ug/l	100
32) 1,1,1-Trichloroethane	7.491	97	155973	18.52	ug/l	100
33) Carbon Tetrachloride	7.697	117	132663	18.39	ug/l	100
34) Benzene	7.965	78	397407	19.82	ug/l	100
35) Methacrylonitrile	7.080	41	61092	19.99	ug/l	100
36) 1,2-Dichloroethane	8.048	62	148014	18.40	ug/l	100
37) Trichloroethene	8.767	130	102569	18.99	ug/l	100
38) Methylcyclohexane	9.014	83	158876	21.76	ug/l	100
39) 1,2-Dichloropropane	9.051	63	107590	20.80	ug/l	100
40) Dibromomethane	9.143	93	69071	19.83	ug/l	100
41) Bromodichloromethane	9.338	83	146494	18.87	ug/l	100
42) Vinyl Acetate	5.793	43	1438940	115.59	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.836	43	150591	23.87	ug/l #	100
44) Isopropyl Acetate	8.089	43	266113	24.46	ug/l #	100
45) 1,4-Dioxane	9.132	88	34087	387.91	ug/l	100
46) Methyl methacrylate	9.135	41	122820	24.19	ug/l	100
47) n-amyl Acetate	12.020	43	112430	15.63	ug/l	100
48) t-1,3-Dichloropropene	10.323	75	158248	17.83	ug/l	100
49) cis-1,3-Dichloropropene	9.776	75	170114	18.47	ug/l	100
50) 1,1,2-Trichloroethane	10.502	97	100026	20.27	ug/l	100
51) Ethyl methacrylate	10.371	69	156358	20.69	ug/l	100
52) 1,3-Dichloropropane	10.647	76	166100	19.46	ug/l	100
53) Dibromochloromethane	10.843	129	112532	18.90	ug/l	100
54) 1,2-Dibromoethane	10.948	107	103188	19.91	ug/l	100
55) 2-Chloroethyl vinyl ether	9.631	63	121867	52.77	ug/l	100
56) Bromoform	12.071	173	82050	20.41	ug/l #	100
58) 4-Methyl-2-Pentanone	9.920	43	791312	134.55	ug/l	100
59) 2-Hexanone	10.693	43	544697	132.41	ug/l	100
61) Tetrachloroethene	10.572	164	108321	20.65	ug/l	100
62) Toluene	10.092	91	429887	20.27	ug/l	100
64) Chlorobenzene	11.377	112	255842	18.84	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.452	131	99655	19.06	ug/l	100
66) Ethyl Benzene	11.455	91	466172	19.35	ug/l	100
67) m/p-Xylenes	11.564	106	345684	37.29	ug/l	100
68) o-Xylene	11.892	106	171062	18.77	ug/l	100
69) Styrene	11.908	104	275409	18.41	ug/l	100
70) Isopropylbenzene	12.192	105	452539	18.95	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.447	83	148850	22.17	ug/l	100
72) 1,2,3-Trichloropropane	12.498	75	144643m	21.60	ug/l	
73) Bromobenzene	12.468	156	112514	19.41	ug/l	100
74) n-propylbenzene	12.535	91	497879	18.83	ug/l	100
75) 2-Chlorotoluene	12.618	91	301524	18.03	ug/l	100
76) 1,3,5-Trimethylbenzene	12.677	105	370009	17.53	ug/l	100
77) t-1,4-Dichloro-2-butene	12.246	75	46984	19.95	ug/l	100
78) 4-Chlorotoluene	12.718	91	299417	17.64	ug/l	100
79) tert-butylbenzene	12.938	119	316842	17.99	ug/l	100
80) 1,2,4-Trimethylbenzene	12.983	105	354677	17.13	ug/l	100
81) sec-Butylbenzene	13.115	105	410254	18.46	ug/l	100
82) p-Isopropyltoluene	13.233	119	358212	17.21	ug/l	100
83) 1,3-Dichlorobenzene	13.227	146	181171	18.24	ug/l	100
84) 1,4-Dichlorobenzene	13.308	146	178841	18.52	ug/l	100
85) n-Butylbenzene	13.560	91	293028	17.60	ug/l	100
86) Hexachloroethane	13.815	117	66901	19.71	ug/l	100
87) 1,2-Dichlorobenzene	13.597	146	180093	18.38	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.214	75	30412	19.36	ug/l	100
89) 1,2,4-Trichlorobenzene	14.850	180	111598	20.08	ug/l	100
90) Hexachlorobutadiene	14.949	225	59897	23.46	ug/l	100
91) Naphthalene	15.070	128	346332	21.16	ug/l	100
92) 1,2,3-Trichlorobenzene	15.249	180	110621	19.81	ug/l	100

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

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