

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063889.D
 Acq On : 6 Oct 2020 10:51
 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
 10/7/2020 12:11:29 PM

Quant Time: Oct 06 12:31:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 12:20:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	50711	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	265864	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	254780	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	138051	36.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	121.80%
60) 4-Bromofluorobenzene	12.38	95	125834	30.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.63%
63) Toluene-d8	10.06	98	347277	29.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	78474	21.327	ug/l 100
3) Chloromethane	2.04	50	77965	19.564	ug/l 100
4) Vinyl Chloride	2.17	62	77321	19.257	ug/l 100
5) Bromomethane	2.55	94	48799	19.605	ug/l 100
6) Chloroethane	2.68	64	47908	19.985	ug/l 100
7) Trichlorofluoromethane	2.99	101	120091	23.433	ug/l 100
8) Diethyl Ether	3.38	74	37775	22.274	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	63085	22.743	ug/l 100
10) 1,1-Dichloroethene	3.70	96	57743	23.074	ug/l 100
11) Methyl Iodide	3.91	142	73413	21.572	ug/l 100
12) Methyl Acetate	4.28	43	71786	21.984	ug/l 100
13) Acrolein	3.57	56	28141	86.935	ug/l 100
14) Acrylonitrile	4.93	53	141973	101.166	ug/l 100
15) Acetone	3.78	58	42485	103.890	ug/l 100
16) Carbon Disulfide	4.01	76	170489	24.832	ug/l 100
17) Allyl chloride	4.28	41	113758	24.232	ug/l 100
18) Methylene Chloride	4.51	84	70644	20.844	ug/l 100
19) trans-1,2-Dichloroethene	5.00	96	62690	22.797	ug/l 100
20) Diisopropyl ether	5.91	45	214135	20.620	ug/l 100
21) 1,1-Dichloroethane	5.80	63	133116	22.701	ug/l 100
22) cis-1,2-Dichloroethene	6.78	96	71592	21.360	ug/l 100
23) tert-Butyl Alcohol	4.73	59	62389	127.238	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	194478	21.533	ug/l 100
25) Chloroform	7.33	83	138408	23.409	ug/l 100
26) Cyclohexane	7.61	56	91142	18.896	ug/l 100
29) 1,1-Dichloropropene	7.75	75	99531	23.987	ug/l 100
30) 2-Butanone	6.78	43	238787	122.849	ug/l 100
31) 2,2-Dichloropropane	6.77	77	120178	23.853	ug/l 100
32) 1,1,1-Trichloroethane	7.53	97	128331	25.329	ug/l 100
33) Carbon Tetrachloride	7.73	117	111060	25.575	ug/l 100
34) Benzene	8.00	78	283228	21.987	ug/l 100
35) Methacrylonitrile	7.12	41	42626	23.679	ug/l 100
36) 1,2-Dichloroethane	8.09	62	123885	26.568	ug/l 100
37) Trichloroethene	8.80	130	71955	22.591	ug/l 100
38) Methylcyclohexane	9.05	83	81475	16.982	ug/l 100
39) 1,2-Dichloropropane	9.08	63	78109	21.078	ug/l 100
40) Dibromomethane	9.18	93	54583	24.327	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	109985	22.546	ug/l	100
42) Vinyl Acetate	5.85	43	999247	131.304	ug/l	100
43) Ethyl Acetate	6.88	43	99533	26.317	ug/l	100
44) Isopropyl Acetate	8.13	43	171311	26.504	ug/l #	100
45) 1,4-Dioxane	9.17	88	21523	390.925	ug/l	100
46) Methyl methacrylate	9.17	41	85784	26.926	ug/l	100
47) n-amyl Acetate	12.05	43	143890	25.306	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	118619	22.835	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	120668	21.752	ug/l	100
50) 1,1,2-Trichloroethane	10.53	97	70500	21.193	ug/l	100
51) Ethyl methacrylate	10.40	69	99851	21.682	ug/l	99
52) 1,3-Dichloropropane	10.68	76	119691	21.672	ug/l	100
53) Dibromochloromethane	10.87	129	82101	22.178	ug/l	100
54) 1,2-Dibromoethane	10.98	107	74685	22.906	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	252553	199.933	ug/l	100
56) Bromoform	12.10	173	53765	20.119	ug/l	100
58) 4-Methyl-2-Pentanone	9.95	43	528930	131.206	ug/l	100
59) 2-Hexanone	10.72	43	384794	132.430	ug/l	100
61) Tetrachloroethene	10.60	164	70608	23.748	ug/l	100
62) Toluene	10.13	91	306672	21.789	ug/l	100
64) Chlorobenzene	11.41	112	184317	21.298	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	72571	21.173	ug/l	100
66) Ethyl Benzene	11.49	91	331868	21.513	ug/l	100
67) m/p-Xylenes	11.59	106	249386	43.221	ug/l	100
68) o-Xylene	11.92	106	116169	21.057	ug/l	100
69) Styrene	11.94	104	197659	20.611	ug/l	100
70) Isopropylbenzene	12.23	105	310938	20.808	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	98907	20.864	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	104348m	23.866	ug/l	
73) Bromobenzene	12.50	156	76965	19.436	ug/l	100
74) n-propylbenzene	12.57	91	362208	20.296	ug/l	100
75) 2-Chlorotoluene	12.65	91	221801	20.775	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	260560	20.513	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	34358	22.261	ug/l	100
78) 4-Chlorotoluene	12.75	91	234709	21.185	ug/l	100
79) tert-butylbenzene	12.97	119	206439	19.449	ug/l	100
80) 1,2,4-Trimethylbenzene	13.02	105	263529	21.105	ug/l	100
81) sec-Butylbenzene	13.15	105	274210	18.896	ug/l	100
82) p-Isopropyltoluene	13.26	119	241717	18.757	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	137612	19.789	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	135559	19.856	ug/l	100
85) n-Butylbenzene	13.59	91	211068	19.311	ug/l	100
86) Hexachloroethane	13.85	117	41663	16.895	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	137497	20.517	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.24	75	23541	28.096	ug/l	100
89) 1,2,4-Trichlorobenzene	14.88	180	67104	19.837	ug/l	100
90) Hexachlorobutadiene	14.98	225	37642	16.110	ug/l	100
91) Naphthalene	15.10	128	211515	25.905	ug/l	100
92) 1,2,3-Trichlorobenzene	15.29	180	66974	19.936	ug/l	100

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

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