

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081219\
 Data File : VN057203.D
 Acq On : 12 Aug 2019 9:22
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 9:23:23 AM

Quant Time: Aug 13 01:54:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:53:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	181189	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	970340	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.91	117	820881	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	343727	29.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.00%
60) 4-Bromofluorobenzene	11.92	95	356366	29.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.20%
63) Toluene-d8	9.56	98	1168737	30.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	205104	20.753	ug/l 100
3) Chloromethane	2.00	50	218246	19.064	ug/l 99
4) Vinyl Chloride	2.11	62	226707	19.466	ug/l 95
5) Bromomethane	2.44	94	161116	19.420	ug/l 100
6) Chloroethane	2.55	64	148930	19.720	ug/l 95
7) Trichlorofluoromethane	2.83	101	350540	20.185	ug/l 99
8) Diethyl Ether	3.14	74	128816	19.902	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.44	101	215087	20.476	ug/l 88
10) 1,1-Dichloroethene	3.44	96	207312	19.961	ug/l 98
11) Methyl Iodide	3.63	142	313474	19.343	ug/l 97
12) Methyl Acetate	3.89	43	226402	20.926	ug/l 96
13) Acrolein	3.31	56	104974	87.980	ug/l 100
14) Acrylonitrile	4.45	53	444761	98.532	ug/l 99
15) Acetone	3.47	58	168321	112.358	ug/l 91
16) Carbon Disulfide	3.72	76	546726	19.512	ug/l 100
17) Allyl chloride	3.91	41	313955	20.504	ug/l 95
18) Methylene Chloride	4.10	84	229181	19.464	ug/l 99
19) trans-1,2-Dichloroethene	4.51	96	222298	19.965	ug/l 97
20) Diisopropyl ether	5.31	45	644308	20.633	ug/l 97
21) 1,1-Dichloroethane	5.25	63	395994	20.361	ug/l 100
22) cis-1,2-Dichloroethene	6.21	96	249518	19.689	ug/l 99
23) tert-Butyl Alcohol	4.24	59	148721	99.845	ug/l # 100
24) Methyl tert-Butyl Ether	4.49	73	625181	20.470	ug/l 100
25) Chloroform	6.76	83	400683	20.036	ug/l 97
26) Cyclohexane	7.06	56	329769	19.834	ug/l # 99
29) 1,1-Dichloropropene	7.20	75	305094	20.908	ug/l 99
30) 2-Butanone	6.20	43	609701	106.128	ug/l # 97
31) 2,2-Dichloropropane	6.21	77	325627	20.872	ug/l 100
32) 1,1,1-Trichloroethane	6.97	97	355520	21.038	ug/l 99
33) Carbon Tetrachloride	7.18	117	316075	21.011	ug/l 98
34) Benzene	7.46	78	915592	20.555	ug/l 98
35) Methacrylonitrile	6.55	41	115490	19.890	ug/l 92
36) 1,2-Dichloroethane	7.54	62	296043	20.804	ug/l 100
37) Trichloroethene	8.27	130	265083	20.942	ug/l 100
38) Methylcyclohexane	8.52	83	358452	20.585	ug/l 100
39) 1,2-Dichloropropane	8.56	63	239975	20.901	ug/l 96
40) Dibromomethane	8.65	93	152851	20.679	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	303467	20.648	ug/l	99
42) Vinyl Acetate	5.26	43	2459310	102.972	ug/l	100
43) Ethyl Acetate	6.28	43	220976	20.856	ug/l	98
44) Isopropyl Acetate	7.56	43	423106	21.993	ug/l	99
45) 1,4-Dioxane	8.65	88	73797	411.063	ug/l	98
46) Methyl methacrylate	8.64	41	175596	20.019	ug/l	98
47) n-amyl Acetate	11.59	43	259307	18.321	ug/l	96
48) t-1,3-Dichloropropene	9.86	75	320500	20.450	ug/l	98
49) cis-1,3-Dichloropropene	9.30	75	363523	20.462	ug/l	98
50) 1,1,2-Trichloroethane	10.04	97	223149	21.123	ug/l	97
51) Ethyl methacrylate	9.90	69	294888	19.780	ug/l	98
52) 1,3-Dichloropropane	10.19	76	363903	20.666	ug/l	100
53) Dibromochloromethane	10.39	129	247440	20.786	ug/l	100
54) 1,2-Dibromoethane	10.50	107	225546	20.453	ug/l	100
55) 2-Chloroethyl vinyl ether	9.15	63	419310	99.611	ug/l	98
56) Bromoform	11.64	173	174216	19.805	ug/l	99
58) 4-Methyl-2-Pentanone	9.45	43	1090461	103.406	ug/l	100
59) 2-Hexanone	10.24	43	786961	103.800	ug/l	99
61) Tetrachloroethene	10.11	164	277689	22.040	ug/l	97
62) Toluene	9.63	91	985378	21.089	ug/l	99
64) Chlorobenzene	10.93	112	602785	20.975	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.01	131	243111	22.060	ug/l	96
66) Ethyl Benzene	11.01	91	1052391	21.012	ug/l	99
67) m/p-Xylenes	11.13	106	802092	42.466	ug/l	99
68) o-Xylene	11.46	106	392249	21.390	ug/l	98
69) Styrene	11.47	104	608427	20.691	ug/l	100
70) Isopropylbenzene	11.77	105	1044939	21.165	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.02	83	276860	20.475	ug/l	98
72) 1,2,3-Trichloropropane	12.08	75	244334m	20.646	ug/l	
73) Bromobenzene	12.05	156	264656	20.673	ug/l	96
74) n-propylbenzene	12.11	91	1061713	20.485	ug/l	99
75) 2-Chlorotoluene	12.20	91	669423	20.882	ug/l	100
76) 1,3,5-Trimethylbenzene	12.26	105	867424	20.866	ug/l	87
77) t-1,4-Dichloro-2-butene	11.82	75	80138	20.121	ug/l	96
78) 4-Chlorotoluene	12.30	91	609208	20.462	ug/l	99
79) tert-butylbenzene	12.52	119	774923	21.150	ug/l	98
80) 1,2,4-Trimethylbenzene	12.57	105	800298	20.414	ug/l	100
81) sec-Butylbenzene	12.70	105	928670	20.102	ug/l	99
82) p-Isopropyltoluene	12.82	119	804899	19.567	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	395390	20.283	ug/l	98
84) 1,4-Dichlorobenzene	12.90	146	354964	19.576	ug/l	99
85) n-Butylbenzene	13.15	91	569776	19.156	ug/l	99
86) Hexachloroethane	13.41	117	151858	20.302	ug/l	99
87) 1,2-Dichlorobenzene	13.19	146	386410	19.989	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.81	75	39295	20.712	ug/l	89
89) 1,2,4-Trichlorobenzene	14.45	180	123382	19.657	ug/l	97
90) Hexachlorobutadiene	14.55	225	171029	20.522	ug/l	97
91) Naphthalene	14.67	128	205632	14.013	ug/l	99
92) 1,2,3-Trichlorobenzene	14.84	180	132935	21.213	ug/l	97

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

