

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056681.D
 Acq On : 12 Jul 2019 11:22
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:20 AM

Quant Time: Jul 12 23:55:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	54070	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	303288	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	277326	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	109940	29.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.90%
60) 4-Bromofluorobenzene	12.40	95	132824	31.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.47%
63) Toluene-d8	10.09	98	371081	28.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	313658	111.571	ug/l 98
3) Chloromethane	2.06	50	411930	102.640	ug/l 99
4) Vinyl Chloride	2.18	62	407362	106.695	ug/l 100
5) Bromomethane	2.54	94	238803m	115.259	ug/l
6) Chloroethane	2.69	64	228546	107.791	ug/l 100
7) Trichlorofluoromethane	3.00	101	514024	105.111	ug/l 99
8) Diethyl Ether	3.41	74	211261	103.193	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	313660	101.489	ug/l 100
10) 1,1-Dichloroethene	3.73	96	318393	105.718	ug/l 97
11) Methyl Iodide	3.95	142	463542	108.266	ug/l 98
12) Methyl Acetate	4.32	43	387010	95.874	ug/l 97
13) Acrolein	3.60	56	131875	358.304	ug/l 99
14) Acrylonitrile	4.99	53	940502	529.155	ug/l 100
15) Acetone	3.82	58	317164	583.596	ug/l 96
16) Carbon Disulfide	4.05	76	867635	116.906	ug/l 99
17) Allyl chloride	4.32	41	563891	106.767	ug/l 97
18) Methylene Chloride	4.55	84	368218	103.270	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	339233	103.738	ug/l 97
20) Diisopropyl ether	5.95	45	1101195	101.734	ug/l 94
21) 1,1-Dichloroethane	5.85	63	628979	102.805	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	395503	102.991	ug/l 99
23) tert-Butyl Alcohol	4.79	59	331069	496.763	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	1017865	102.703	ug/l 99
25) Chloroform	7.37	83	604836	100.667	ug/l 99
26) Cyclohexane	7.65	56	589117	103.760	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	475619	103.216	ug/l 99
30) 2-Butanone	6.84	43	1357147	523.229	ug/l 100
31) 2,2-Dichloropropane	6.82	77	472379	106.570	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	514115	105.013	ug/l 99
33) Carbon Tetrachloride	7.77	117	448585	107.322	ug/l 96
34) Benzene	8.04	78	1452416	101.235	ug/l # 92
35) Methacrylonitrile	7.18	41	214778	100.534	ug/l 97
36) 1,2-Dichloroethane	8.12	62	462057	99.301	ug/l 99
37) Trichloroethene	8.83	130	392212	103.762	ug/l 97
38) Methylcyclohexane	9.08	83	607167	104.907	ug/l 99
39) 1,2-Dichloropropane	9.12	63	388925	100.980	ug/l 99
40) Dibromomethane	9.21	93	247883	103.581	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	469804	105.563	ug/l	98
42) Vinyl Acetate	5.89	43	4729592	522.890	ug/l	100
43) Ethyl Acetate	6.93	43	489689	99.876	ug/l	97
44) Isopropyl Acetate	8.17	43	788549	103.419	ug/l	99
45) 1,4-Dioxane	9.20	88	159176	2101.762	ug/l	99
46) Methyl methacrylate	9.20	41	383320	102.150	ug/l	99
47) n-amyl Acetate	12.07	43	683536	108.201	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	535136	111.962	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	598396	108.905	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	361565	102.942	ug/l	99
51) Ethyl methacrylate	10.43	69	582128	105.952	ug/l	98
52) 1,3-Dichloropropane	10.71	76	611066	101.961	ug/l	99
53) Dibromochloromethane	10.90	129	387620	111.798	ug/l	99
54) 1,2-Dibromoethane	11.00	107	383584	104.644	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	1414960	509.911	ug/l	99
56) Bromoform	12.13	173	296945	116.972	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	2515283	496.805	ug/l	99
59) 2-Hexanone	10.75	43	1920057	504.179	ug/l	99
61) Tetrachloroethene	10.63	164	369733	102.109	ug/l	98
62) Toluene	10.15	91	1568018	99.385	ug/l	99
64) Chlorobenzene	11.43	112	965401	101.436	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	357346	103.480	ug/l	100
66) Ethyl Benzene	11.51	91	1735271	101.329	ug/l	100
67) m/p-Xylenes	11.62	106	1310775	206.164	ug/l	99
68) o-Xylene	11.95	106	632032	101.317	ug/l	98
69) Styrene	11.96	104	1089003	105.007	ug/l	99
70) Isopropylbenzene	12.25	105	1667459	102.056	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	531797	98.990	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	474068m	105.186	ug/l	
73) Bromobenzene	12.53	156	442151	104.810	ug/l	99
74) n-propylbenzene	12.59	91	1921069	103.124	ug/l	99
75) 2-Chlorotoluene	12.67	91	1128880	101.636	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1415253	101.670	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	174180	118.832	ug/l	91
78) 4-Chlorotoluene	12.77	91	1134031	105.205	ug/l	99
79) tert-butylbenzene	12.99	119	1209319	102.029	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	1423154	103.479	ug/l	100
81) sec-Butylbenzene	13.17	105	1607369	102.138	ug/l	100
82) p-Isopropyltoluene	13.29	119	1483538	104.366	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	756329	107.584	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	741671	109.611	ug/l	99
85) n-Butylbenzene	13.61	91	1280493	107.639	ug/l	99
86) Hexachloroethane	13.87	117	245548	113.576	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	750796	105.983	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	99537	103.999	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	432659	110.780	ug/l	98
90) Hexachlorobutadiene	15.01	225	244893	99.303	ug/l	99
91) Naphthalene	15.13	128	1244167	115.700	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	438161	107.166	ug/l	99

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

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