

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058669.D
 Acq On : 10 Oct 2019 17:06
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 2:47:47 PM

Quant Time: Oct 11 04:21:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:10:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	75698	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	424534	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	394138	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	193549	29.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.17%
60) 4-Bromofluorobenzene	12.41	95	208248	30.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.27%
63) Toluene-d8	10.08	98	553432	29.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	218741	48.857 ug/l	98
3) Chloromethane	2.04	50	283394	52.981 ug/l	99
4) Vinyl Chloride	2.17	62	290575	54.125 ug/l	99
5) Bromomethane	2.54	94	175333	57.282 ug/l	97
6) Chloroethane	2.68	64	181817	56.774 ug/l	97
7) Trichlorofluoromethane	3.00	101	367156	57.871 ug/l	99
8) Diethyl Ether	3.39	74	137123	49.743 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	212479	50.186 ug/l	99
10) 1,1-Dichloroethene	3.72	96	203593	49.100 ug/l	100
11) Methyl Iodide	3.93	142	296514	64.274 ug/l	97
12) Methyl Acetate	4.30	43	329339	57.302 ug/l	98
13) Acrolein	3.59	56	173504	666.156 ug/l	97
14) Acrylonitrile	4.96	53	660404	283.323 ug/l	99
15) Acetone	3.80	58	206560	320.096 ug/l	97
16) Carbon Disulfide	4.03	76	586401	49.726 ug/l	99
17) Allyl chloride	4.30	41	416711	53.039 ug/l	98
18) Methylene Chloride	4.53	84	248735	50.684 ug/l	99
19) trans-1,2-Dichloroethene	5.02	96	224147	48.379 ug/l	95
20) Diisopropyl ether	5.93	45	849927	51.188 ug/l	96
21) 1,1-Dichloroethane	5.82	63	472858	51.066 ug/l	100
22) cis-1,2-Dichloroethene	6.81	96	270584	50.073 ug/l	99
23) tert-Butyl Alcohol	4.76	59	268438	303.758 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	784522	52.296 ug/l	100
25) Chloroform	7.35	83	470923	50.282 ug/l	96
26) Cyclohexane	7.64	56	417514	48.933 ug/l	# 97
29) 1,1-Dichloropropene	7.78	75	357860	51.548 ug/l	100
30) 2-Butanone	6.81	43	1043604	318.485 ug/l	100
31) 2,2-Dichloropropane	6.80	77	421369	57.640 ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	408784	53.609 ug/l	100
33) Carbon Tetrachloride	7.76	117	357785	55.012 ug/l	99
34) Benzene	8.03	78	1035852	52.267 ug/l	# 93
35) Methacrylonitrile	7.16	41	188205m	65.479 ug/l	
36) 1,2-Dichloroethane	8.11	62	397002	51.183 ug/l	100
37) Trichloroethene	8.82	130	255209	51.527 ug/l	99
38) Methylcyclohexane	9.07	83	413989	49.613 ug/l	99
39) 1,2-Dichloropropane	9.11	63	284268	52.218 ug/l	98
40) Dibromomethane	9.20	93	179940	52.531 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	369088	53.950	ug/l	99
42) Vinyl Acetate	5.87	43	3673389	298.821	ug/l	100
43) Ethyl Acetate	6.91	43	391544	59.585	ug/l	95
44) Isopropyl Acetate	8.15	43	641812	56.102	ug/l #	90
45) 1,4-Dioxane	9.19	88	98380	1049.009	ug/l	99
46) Methyl methacrylate	9.19	41	297577	55.192	ug/l	99
47) n-amyl Acetate	12.07	43	580426	57.854	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	431570	56.893	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	451478	54.343	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	257898	53.682	ug/l	99
51) Ethyl methacrylate	10.43	69	423428	55.556	ug/l	99
52) 1,3-Dichloropropane	10.71	76	456912	53.608	ug/l	99
53) Dibromochloromethane	10.90	129	280280	56.907	ug/l	98
54) 1,2-Dibromoethane	11.00	107	268446	54.554	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	1036733	306.241	ug/l	99
56) Bromoform	12.13	173	196751	61.730	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	1993934	311.359	ug/l	100
59) 2-Hexanone	10.75	43	1599390	328.127	ug/l	99
61) Tetrachloroethene	10.63	164	221546	52.493	ug/l	98
62) Toluene	10.15	91	1126581	51.997	ug/l	99
64) Chlorobenzene	11.43	112	686649	51.550	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	258874	54.326	ug/l	98
66) Ethyl Benzene	11.51	91	1273343	54.024	ug/l	99
67) m/p-Xylenes	11.62	106	946238	104.410	ug/l	100
68) o-Xylene	11.95	106	450677	51.202	ug/l	99
69) Styrene	11.97	104	761221	51.909	ug/l	99
70) Isopropylbenzene	12.25	105	1254645	54.930	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	406235	54.709	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	365467m	56.825	ug/l	
73) Bromobenzene	12.53	156	294193	52.763	ug/l	99
74) n-propylbenzene	12.60	91	1491267	56.464	ug/l	100
75) 2-Chlorotoluene	12.68	91	871048	52.789	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	1069396	54.332	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	144808	65.540	ug/l	98
78) 4-Chlorotoluene	12.78	91	896841	53.061	ug/l	99
79) tert-butylbenzene	13.00	119	913674	53.389	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	1077713	55.009	ug/l	99
81) sec-Butylbenzene	13.18	105	1246016	55.776	ug/l	100
82) p-Isopropyltoluene	13.29	119	1131412	56.118	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	543945	52.993	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	540642	52.727	ug/l	99
85) n-Butylbenzene	13.62	91	1041417	55.819	ug/l	100
86) Hexachloroethane	13.88	117	198450	58.459	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	536868	53.603	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	90086	59.640	ug/l	96
89) 1,2,4-Trichlorobenzene	14.92	180	340896	51.832	ug/l	99
90) Hexachlorobutadiene	15.02	225	170566	53.166	ug/l	100
91) Naphthalene	15.13	128	1016886	55.531	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	324649	51.205	ug/l	99

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

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