

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054980.D
 Acq On : 11 Apr 2019 16:13
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:23 PM

Quant Time: Apr 12 07:54:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:37:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	79120	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	448588	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	405985	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	177524	31.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.33%
60) 4-Bromofluorobenzene	12.40	95	196220	31.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.90%
63) Toluene-d8	10.09	98	559080	28.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	661393	166.526	ug/l 100
3) Chloromethane	2.06	50	912687	173.604	ug/l 97
4) Vinyl Chloride	2.19	62	772485	148.139	ug/l 99
5) Bromomethane	2.55	94	450352	141.202	ug/l 95
6) Chloroethane	2.70	64	436902	143.114	ug/l 100
7) Trichlorofluoromethane	3.02	101	984110	154.749	ug/l 97
8) Diethyl Ether	3.41	74	324141	138.305	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	527054	130.057	ug/l 98
10) 1,1-Dichloroethene	3.73	96	484822	128.353	ug/l 97
11) Methyl Iodide	3.94	142	807070	145.345	ug/l 99
12) Methyl Acetate	4.33	43	678362	208.937	ug/l 98
13) Acrolein	3.61	56	280642	901.395	ug/l 99
14) Acrylonitrile	4.99	53	1388664	909.125	ug/l 98
15) Acetone	3.82	58	287740	650.598	ug/l 99
16) Carbon Disulfide	4.04	76	1854879	152.134	ug/l 98
17) Allyl chloride	4.31	41	1334779	197.187	ug/l 100
18) Methylene Chloride	4.55	84	736719	166.081	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	679473	164.411	ug/l 96
20) Diisopropyl ether	5.96	45	2639126	194.075	ug/l 97
21) 1,1-Dichloroethane	5.85	63	1369943	170.806	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	783308	169.702	ug/l 100
23) tert-Butyl Alcohol	4.82	59	233654	866.901	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1853584	181.142	ug/l # 67
25) Chloroform	7.37	83	1308162	169.224	ug/l 100
26) Cyclohexane	7.65	56	1293231	178.146	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	1043282	169.442	ug/l 99
30) 2-Butanone	6.84	43	1765762	909.958	ug/l 100
31) 2,2-Dichloropropane	6.82	77	979350	161.979	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	1104223	166.770	ug/l 98
33) Carbon Tetrachloride	7.77	117	957423	163.681	ug/l 98
34) Benzene	8.04	78	3048518	166.634	ug/l # 89
35) Methacrylonitrile	7.18	41	446816	201.811	ug/l 93
36) 1,2-Dichloroethane	8.12	62	1012713	170.459	ug/l 100
37) Trichloroethene	8.83	130	768737	160.444	ug/l 94
38) Methylcyclohexane	9.08	83	1193432	164.429	ug/l 98
39) 1,2-Dichloropropane	9.12	63	840981	167.136	ug/l 99
40) Dibromomethane	9.21	93	466093	162.064	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1020211	168.024	ug/l	99
42) Vinyl Acetate	5.90	43	9401582	946.753	ug/l	99
43) Ethyl Acetate	6.94	43	733213	180.924	ug/l	97
44) Isopropyl Acetate	8.17	43	1306031	184.907	ug/l	99
45) 1,4-Dioxane	9.20	88	134168	3573.323	ug/l	98
46) Methyl methacrylate	9.20	41	695961	204.748	ug/l	97
47) n-amyl Acetate	12.07	43	1061308	208.056	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	1067500	178.440	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	1227453	173.371	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	655376	163.084	ug/l	99
51) Ethyl methacrylate	10.43	69	897365	189.733	ug/l	99
52) 1,3-Dichloropropane	10.71	76	1169582	170.021	ug/l	100
53) Dibromochloromethane	10.90	129	741268	169.958	ug/l	97
54) 1,2-Dibromoethane	11.00	107	659035	174.081	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	1874208	861.744	ug/l	100
56) Bromoform	12.13	173	487929	170.222	ug/l #	99
58) 4-Methyl-2-Pentanone	9.99	43	3664712	925.766	ug/l	100
59) 2-Hexanone	10.75	43	2328422	899.970	ug/l	98
61) Tetrachloroethene	10.63	164	724976	145.396	ug/l	96
62) Toluene	10.16	91	3226621	162.021	ug/l	98
64) Chlorobenzene	11.43	112	2013086	165.684	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	733450	165.377	ug/l	99
66) Ethyl Benzene	11.51	91	3571602	171.602	ug/l	99
67) m/p-Xylenes	11.62	106	2656104	340.524	ug/l	100
68) o-Xylene	11.95	106	1296254	170.774	ug/l	100
69) Styrene	11.96	104	2105129	176.995	ug/l	99
70) Isopropylbenzene	12.25	105	3468121	173.988	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	795311	162.860	ug/l	97
72) 1,1,2,3-Trichloropropane	12.55	75	655454m	175.705	ug/l	
73) Bromobenzene	12.53	156	848388	169.865	ug/l	100
74) n-propylbenzene	12.59	91	4015964	170.113	ug/l	100
75) 2-Chlorotoluene	12.67	91	2365644	170.502	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	2815513	167.570	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	208475	164.485	ug/l	83
78) 4-Chlorotoluene	12.77	91	2359028	171.353	ug/l	99
79) tert-butylbenzene	12.99	119	2420470	164.039	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	2822343	169.894	ug/l	99
81) sec-Butylbenzene	13.17	105	3265289	162.034	ug/l	100
82) p-Isopropyltoluene	13.29	119	2793047	162.891	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	1473976	168.817	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1442118	173.399	ug/l	99
85) n-Butylbenzene	13.61	91	2427815	165.421	ug/l	98
86) Hexachloroethane	13.87	117	484889	151.968	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	1400007	165.208	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	121478	176.145	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	786293	189.656	ug/l	97
90) Hexachlorobutadiene	15.01	225	427151	136.263	ug/l	99
91) Naphthalene	15.13	128	1741719	211.676	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	748516	181.058	ug/l	98

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

