

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061394.D
 Acq On : 14 May 2020 15:00
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/15/2020 2:10:39 PM

Quant Time: May 14 15:42:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 15:22:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	19628	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	115583	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	108971	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	53801	31.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.37%
60) 4-Bromofluorobenzene	12.38	95	56739	30.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.23%
63) Toluene-d8	10.06	98	150273	29.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	44077	43.658	ug/l 99
3) Chloromethane	2.03	50	81781	55.928	ug/l 99
4) Vinyl Chloride	2.16	62	107871	66.955	ug/l 99
5) Bromomethane	2.54	94	56658	60.355	ug/l 99
6) Chloroethane	2.68	64	72756	69.978	ug/l 99
7) Trichlorofluoromethane	2.99	101	94149	49.290	ug/l 99
8) Diethyl Ether	3.37	74	36781	53.169	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.72	101	49404	47.845	ug/l 94
10) 1,1-Dichloroethene	3.70	96	51690	50.573	ug/l 98
11) Methyl Iodide	3.91	142	56641	41.622	ug/l 98
12) Methyl Acetate	4.27	43	63836	40.729	ug/l 97
13) Acrolein	3.56	56	50779	270.906	ug/l 98
14) Acrylonitrile	4.93	53	150990	235.532	ug/l 98
15) Acetone	3.77	58	35136	190.999	ug/l 97
16) Carbon Disulfide	4.01	76	154003	50.894	ug/l 100
17) Allyl chloride	4.28	41	105190	51.221	ug/l 97
18) Methylene Chloride	4.50	84	62458	50.805	ug/l 93
19) trans-1,2-Dichloroethene	4.99	96	60919	54.094	ug/l 97
20) Diisopropyl ether	5.90	45	246810	57.321	ug/l 93
21) 1,1-Dichloroethane	5.80	63	129392	55.043	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	73839	54.750	ug/l 97
23) tert-Butyl Alcohol	4.72	59	47661	189.004	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	212748	54.660	ug/l 98
25) Chloroform	7.33	83	126058	54.258	ug/l 97
26) Cyclohexane	7.62	56	123470	58.515	ug/l # 98
29) 1,1-Dichloropropene	7.75	75	101441	54.767	ug/l 98
30) 2-Butanone	6.78	43	212609	212.776	ug/l 100
31) 2,2-Dichloropropane	6.78	77	116574	53.278	ug/l 97
32) 1,1,1-Trichloroethane	7.53	97	114131	54.037	ug/l 99
33) Carbon Tetrachloride	7.73	117	87436	49.131	ug/l 98
34) Benzene	8.00	78	288154	53.286	ug/l 95
35) Methacrylonitrile	7.12	41	37194	39.694	ug/l 83
36) 1,2-Dichloroethane	8.08	62	111197	53.794	ug/l 99
37) Trichloroethene	8.80	130	71368	53.975	ug/l 97
38) Methylcyclohexane	9.05	83	119921	55.284	ug/l 96
39) 1,2-Dichloropropane	9.08	63	79005	53.416	ug/l 98
40) Dibromomethane	9.17	93	48428	52.468	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	107479	55.974	ug/l	100
42) Vinyl Acetate	5.84	43	1025901	281.162	ug/l	100
43) Ethyl Acetate	6.88	43	95134	47.605	ug/l	99
44) Isopropyl Acetate	8.12	43	179471	53.869	ug/l	100
45) 1,4-Dioxane	9.17	88	13894	607.080	ug/l	93
46) Methyl methacrylate	9.17	41	82455	53.516	ug/l	94
47) n-amyl Acetate	12.04	43	162172	54.833	ug/l	95
48) t-1,3-Dichloropropene	10.35	75	127199	56.721	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	132767	56.574	ug/l	95
50) 1,1,2-Trichloroethane	10.53	97	67955	51.850	ug/l	98
51) Ethyl methacrylate	10.40	69	118080	54.979	ug/l	94
52) 1,3-Dichloropropane	10.68	76	125820	53.176	ug/l	100
53) Dibromochloromethane	10.87	129	75060	52.952	ug/l	99
54) 1,2-Dibromoethane	10.98	107	69814	51.231	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	254736	248.473	ug/l	99
56) Bromoform	12.10	173	47649	49.227	ug/l #	99
58) 4-Methyl-2-Pentanone	9.95	43	489655	250.087	ug/l	99
59) 2-Hexanone	10.72	43	350887	231.326	ug/l	99
61) Tetrachloroethene	10.60	164	68977	57.769	ug/l	97
62) Toluene	10.12	91	315168	53.717	ug/l	98
64) Chlorobenzene	11.41	112	187573	52.678	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	68490	51.465	ug/l	99
66) Ethyl Benzene	11.48	91	361423	55.322	ug/l	100
67) m/p-Xylenes	11.60	106	267518	109.822	ug/l	97
68) o-Xylene	11.92	106	129575	54.817	ug/l	100
69) Styrene	11.94	104	223055	56.816	ug/l	99
70) Isopropylbenzene	12.22	105	346501	54.578	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	95752	46.208	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	89334m	46.969	ug/l	
73) Bromobenzene	12.50	156	73200	48.905	ug/l	92
74) n-propylbenzene	12.57	91	416078	55.971	ug/l	100
75) 2-Chlorotoluene	12.65	91	239942	53.785	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	295324	54.473	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	39093	53.162	ug/l	95
78) 4-Chlorotoluene	12.75	91	252873	54.881	ug/l	99
79) tert-butylbenzene	12.97	119	244785	53.069	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	294777	54.829	ug/l	100
81) sec-Butylbenzene	13.15	105	341051	54.752	ug/l	100
82) p-Isopropyltoluene	13.26	119	304524	54.413	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	135533	49.886	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	136857	50.408	ug/l	97
85) n-Butylbenzene	13.59	91	287615	55.705	ug/l	98
86) Hexachloroethane	13.85	117	42177	43.576	ug/l	81
87) 1,2-Dichlorobenzene	13.63	146	129918	48.454	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	20771	45.145	ug/l	94
89) 1,2,4-Trichlorobenzene	14.89	180	75830	45.378	ug/l	99
90) Hexachlorobutadiene	14.99	225	30728	37.093	ug/l	98
91) Naphthalene	15.10	128	240315	48.412	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	73578	45.360	ug/l	98

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

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