

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055726.D
 Acq On : 22 May 2019 18:12
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:31:21 PM

Quant Time: May 23 05:57:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57855	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	319883	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	286900	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113096	25.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.50%
60) 4-Bromofluorobenzene	12.40	95	138662	31.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.30%
63) Toluene-d8	10.09	98	386057	28.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	235783	77.685 ug/l	97
3) Chloromethane	2.06	50	341300	79.544 ug/l	98
4) Vinyl Chloride	2.18	62	351546	96.999 ug/l	100
5) Bromomethane	2.53	94	214850	104.029 ug/l	100
6) Chloroethane	2.68	64	198319	96.670 ug/l	94
7) Trichlorofluoromethane	3.00	101	443301	85.869 ug/l	98
8) Diethyl Ether	3.40	74	195272	91.097 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	281392	85.707 ug/l	99
10) 1,1-Dichloroethene	3.72	96	293582	93.809 ug/l	99
11) Methyl Iodide	3.94	142	446246	92.319 ug/l	99
12) Methyl Acetate	4.33	43	334224	76.437 ug/l	99
13) Acrolein	3.60	56	237253	895.433 ug/l	99
14) Acrylonitrile	4.99	53	817749	500.934 ug/l	100
15) Acetone	3.82	58	240882	574.625 ug/l	99
16) Carbon Disulfide	4.04	76	848566	97.901 ug/l	99
17) Allyl chloride	4.31	41	530596	80.680 ug/l	98
18) Methylene Chloride	4.54	84	336303	88.259 ug/l	98
19) trans-1,2-Dichloroethene	5.03	96	314228	92.419 ug/l	97
20) Diisopropyl ether	5.96	45	1032040	78.809 ug/l	94
21) 1,1-Dichloroethane	5.84	63	583269	84.144 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	372617	94.014 ug/l	98
23) tert-Butyl Alcohol	4.81	59	350545m	772.401 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	1000748	97.131 ug/l	99
25) Chloroform	7.37	83	573012	87.207 ug/l	100
26) Cyclohexane	7.65	56	542369	88.552 ug/l #	99
29) 1,1-Dichloropropene	7.79	75	441878	89.090 ug/l	99
30) 2-Butanone	6.84	43	1127787	532.316 ug/l	100
31) 2,2-Dichloropropane	6.82	77	488226	99.479 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	512456	91.870 ug/l	99
33) Carbon Tetrachloride	7.77	117	459425	96.805 ug/l	99
34) Benzene	8.04	78	1351897	90.657 ug/l #	92
35) Methacrylonitrile	7.18	41	218390	96.428 ug/l	98
36) 1,2-Dichloroethane	8.12	62	440400	84.244 ug/l	100
37) Trichloroethene	8.83	130	377139	98.209 ug/l	100
38) Methylcyclohexane	9.08	83	555946	101.459 ug/l	98
39) 1,2-Dichloropropane	9.12	63	361989	85.983 ug/l	98
40) Dibromomethane	9.21	93	232127	93.792 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	476158	93.267	ug/l	100
42) Vinyl Acetate	5.90	43	4469170	456.360	ug/l	100
43) Ethyl Acetate	6.93	43	442754	101.311	ug/l #	100
44) Isopropyl Acetate	8.17	43	757682	97.378	ug/l #	88
45) 1,4-Dioxane	9.20	88	139408	2990.868	ug/l	95
46) Methyl methacrylate	9.20	41	361051	98.310	ug/l	99
47) n-amyl Acetate	12.07	43	644209	110.610	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	545267	105.714	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	591205	100.178	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	340709	99.180	ug/l	99
51) Ethyl methacrylate	10.43	69	560108	113.918	ug/l	99
52) 1,3-Dichloropropane	10.71	76	565591	93.790	ug/l	99
53) Dibromochloromethane	10.90	129	411730	112.039	ug/l	99
54) 1,2-Dibromoethane	11.01	107	357837	105.218	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	1100654	697.921	ug/l	100
56) Bromoform	12.13	173	338918	132.838	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	2234381	490.831	ug/l	99
59) 2-Hexanone	10.75	43	1613730	541.168	ug/l	100
61) Tetrachloroethene	10.63	164	368490	98.460	ug/l	98
62) Toluene	10.16	91	1491425	92.579	ug/l	99
64) Chlorobenzene	11.43	112	919234	95.830	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	363556	99.677	ug/l	99
66) Ethyl Benzene	11.51	91	1643526	95.108	ug/l	100
67) m/p-Xylenes	11.62	106	1253162	197.465	ug/l	100
68) o-Xylene	11.95	106	613375	97.273	ug/l	100
69) Styrene	11.96	104	1055528	106.033	ug/l	98
70) Isopropylbenzene	12.25	105	1597819	96.293	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	484523	102.789	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	397928m	96.616	ug/l	
73) Bromobenzene	12.53	156	435735	107.727	ug/l	100
74) n-propylbenzene	12.59	91	1776061	96.506	ug/l	100
75) 2-Chlorotoluene	12.67	91	1065375	94.314	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1336263	97.606	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	170610	140.830	ug/l	99
78) 4-Chlorotoluene	12.77	91	1064903	99.441	ug/l	99
79) tert-butylbenzene	12.99	119	1149831	97.098	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	1346866	101.930	ug/l	99
81) sec-Butylbenzene	13.17	105	1498588	96.665	ug/l	100
82) p-Isopropyltoluene	13.29	119	1401930	106.507	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	726879	111.295	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	702379	114.014	ug/l	99
85) n-Butylbenzene	13.61	91	1156751	114.156	ug/l	99
86) Hexachloroethane	13.87	117	270561	115.515	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	707908	108.239	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	93751	126.365	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	440172	158.641	ug/l	99
90) Hexachlorobutadiene	15.01	225	271134	118.402	ug/l	98
91) Naphthalene	15.13	128	1166656	171.976	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	439475	150.527	ug/l	98

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

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