

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057464.D
 Acq On : 23 Aug 2019 10:03
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:11:54 PM

Quant Time: Aug 23 23:06:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	72746	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	423069	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	370497	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	213965	41.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	137.87%
60) 4-Bromofluorobenzene	12.40	95	194397	35.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	116.83%
63) Toluene-d8	10.08	98	551559	32.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	193216	51.788 ug/l	99
3) Chloromethane	2.05	50	284065	61.467 ug/l	100
4) Vinyl Chloride	2.17	62	365892	75.721 ug/l	99
5) Bromomethane	2.54	94	230318	65.102 ug/l	99
6) Chloroethane	2.69	64	241444	73.940 ug/l	98
7) Trichlorofluoromethane	3.00	101	583044	76.001 ug/l	94
8) Diethyl Ether	3.39	74	217084	75.660 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	319168	70.993 ug/l	98
10) 1,1-Dichloroethene	3.71	96	307818	69.947 ug/l	100
11) Methyl Iodide	3.92	142	244354	38.957 ug/l	98
12) Methyl Acetate	4.31	43	286992	59.298 ug/l	98
13) Acrolein	3.58	56	198571	390.523 ug/l	98
14) Acrylonitrile	4.96	53	543684	289.812 ug/l	99
15) Acetone	3.80	58	262197	402.701 ug/l	91
16) Carbon Disulfide	4.02	76	547531	50.596 ug/l	100
17) Allyl chloride	4.29	41	420188	66.440 ug/l	97
18) Methylene Chloride	4.52	84	226814	50.325 ug/l	100
19) trans-1,2-Dichloroethene	5.00	96	212667	50.064 ug/l	99
20) Diisopropyl ether	5.93	45	898893	67.924 ug/l	97
21) 1,1-Dichloroethane	5.82	63	478825	61.335 ug/l	98
22) cis-1,2-Dichloroethene	6.81	96	260572	52.133 ug/l	99
23) tert-Butyl Alcohol	4.78	59	195467	290.585 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	725202	57.741 ug/l	99
25) Chloroform	7.35	83	460819	57.380 ug/l	99
26) Cyclohexane	7.63	56	406584	61.853 ug/l	# 98
29) 1,1-Dichloropropene	7.78	75	344785	54.780 ug/l	99
30) 2-Butanone	6.82	43	851175	323.943 ug/l	99
31) 2,2-Dichloropropane	6.80	77	397107	56.986 ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	396797	53.840 ug/l	99
33) Carbon Tetrachloride	7.76	117	327927	50.604 ug/l	99
34) Benzene	8.03	78	1020442	53.699 ug/l	# 92
35) Methacrylonitrile	7.15	41	174022	50.852 ug/l	93
36) 1,2-Dichloroethane	8.11	62	395727	61.352 ug/l	# 87
37) Trichloroethene	8.82	130	234539	44.407 ug/l	93
38) Methylcyclohexane	9.07	83	392417	53.442 ug/l	98
39) 1,2-Dichloropropane	9.11	63	295895	59.503 ug/l	92
40) Dibromomethane	9.20	93	177102	54.680 ug/l	98

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

41) Bromodichloromethane	9.39	83	379718	57.525	ug/l #	99
42) Vinyl Acetate	5.87	43	3784201	339.988	ug/l	100
43) Ethyl Acetate	6.91	43	347441	65.653	ug/l	100
44) Isopropyl Acetate	8.16	43	628617	66.332	ug/l #	93
45) 1,4-Dioxane	9.20	88	72956	899.824	ug/l	98
46) Methyl methacrylate	9.19	41	300998	69.864	ug/l	98
47) n-amyl Acetate	12.07	43	520857	73.015	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	405357	57.191	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	436749	55.356	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	230765	49.859	ug/l	99
51) Ethyl methacrylate	10.43	69	404627	58.775	ug/l	98
52) 1,3-Dichloropropane	10.70	76	431404	55.761	ug/l	100
53) Dibromochloromethane	10.90	129	253211	48.413	ug/l	97
54) 1,2-Dibromoethane	11.00	107	239549	49.807	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	500847	311.358	ug/l	99
56) Bromoform	12.13	173	160306	42.116	ug/l #	98
58) 4-Methyl-2-Pentanone	9.98	43	1797620	337.312	ug/l	100
59) 2-Hexanone	10.75	43	1254054	330.673	ug/l	99
61) Tetrachloroethene	10.63	164	202956	39.537	ug/l	94
62) Toluene	10.15	91	1100669	53.040	ug/l	100
64) Chlorobenzene	11.43	112	607449	47.965	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	234408	48.051	ug/l	98
66) Ethyl Benzene	11.51	91	1216824	53.939	ug/l	100
67) m/p-Xylenes	11.62	106	863243	104.045	ug/l	99
68) o-Xylene	11.95	106	418650	51.293	ug/l	96
69) Styrene	11.96	104	696141	53.476	ug/l	98
70) Isopropylbenzene	12.25	105	1137392	52.218	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	332669	55.136	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	290465m	56.159	ug/l	
73) Bromobenzene	12.53	156	234018	42.368	ug/l	98
74) n-propylbenzene	12.59	91	1321600	57.225	ug/l	100
75) 2-Chlorotoluene	12.67	91	768428	54.252	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	945524	52.337	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	111066	56.238	ug/l	96
78) 4-Chlorotoluene	12.77	91	745626	56.116	ug/l	99
79) tert-butylbenzene	12.99	119	788163	49.337	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	912115	53.500	ug/l	98
81) sec-Butylbenzene	13.17	105	1071428	53.471	ug/l	100
82) p-Isopropyltoluene	13.29	119	899729	50.805	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	373914	45.872	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	371485	48.327	ug/l	99
85) n-Butylbenzene	13.62	91	814548	61.196	ug/l	97
86) Hexachloroethane	13.88	117	179632	52.192	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	373532	48.192	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	55870	65.608	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	123672	44.477	ug/l	97
90) Hexachlorobutadiene	15.01	225	99667	30.329	ug/l	98
91) Naphthalene	15.13	128	419662	63.596	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	125542	46.538	ug/l	97

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

