

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053213.D
 Acq On : 28 Dec 2018 9:21
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:48:05 AM

Quant Time: Dec 28 09:52:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 09:36:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	176329	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1038882	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	924079	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	338307	29.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.67%
60) 4-Bromofluorobenzene	12.40	95	419713	30.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.37%
63) Toluene-d8	10.09	98	1252387	29.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	595655	51.290	ug/l 100
3) Chloromethane	2.06	50	673969	48.082	ug/l 99
4) Vinyl Chloride	2.19	62	678188	49.051	ug/l 98
5) Bromomethane	2.57	94	424586	47.107	ug/l 99
6) Chloroethane	2.71	64	386865	47.898	ug/l 100
7) Trichlorofluoromethane	3.02	101	829321	48.386	ug/l 100
8) Diethyl Ether	3.41	74	311833	49.848	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.77	101	519679	47.984	ug/l 96
10) 1,1-Dichloroethene	3.74	96	504710	48.128	ug/l 97
11) Methyl Iodide	3.96	142	751185	52.440	ug/l 99
12) Methyl Acetate	4.32	43	384320	47.066	ug/l 97
13) Acrolein	3.61	56	242428	261.835	ug/l 100
14) Acrylonitrile	4.99	53	897010	251.829	ug/l 99
15) Acetone	3.82	58	187151	244.835	ug/l 96
16) Carbon Disulfide	4.06	76	1563605	49.466	ug/l 99
17) Allyl chloride	4.33	41	794239	48.659	ug/l 98
18) Methylene Chloride	4.55	84	570699	46.113	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	534165	48.037	ug/l 93
20) Diisopropyl ether	5.95	45	1735919	49.437	ug/l 95
21) 1,1-Dichloroethane	5.85	63	998750	48.664	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	613153	49.972	ug/l 98
23) tert-Butyl Alcohol	4.78	59	147921	252.993	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1336217	49.889	ug/l 96
25) Chloroform	7.37	83	957157	48.331	ug/l 99
26) Cyclohexane	7.66	56	940668	50.035	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	772781	48.924	ug/l 99
30) 2-Butanone	6.83	43	985958	257.061	ug/l 98
31) 2,2-Dichloropropane	6.83	77	749256	49.427	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	811381	49.247	ug/l 97
33) Carbon Tetrachloride	7.78	117	711988	50.220	ug/l 99
34) Benzene	8.04	78	2320630	48.104	ug/l # 93
35) Methacrylonitrile	7.18	41	258383	50.533	ug/l 97
36) 1,2-Dichloroethane	8.13	62	673553	47.740	ug/l 99
37) Trichloroethene	8.84	130	630956	48.655	ug/l 95
38) Methylcyclohexane	9.08	83	910243	49.632	ug/l 96
39) 1,2-Dichloropropane	9.12	63	610982	49.090	ug/l 97
40) Dibromomethane	9.21	93	340715	47.936	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	735851	48.782	ug/l	98
42) Vinyl Acetate	5.90	43	5297497	253.097	ug/l	97
43) Ethyl Acetate	6.93	43	439951	51.444	ug/l #	65
44) Isopropyl Acetate	8.16	43	806105	50.274	ug/l #	78
45) 1,4-Dioxane	9.20	88	95521	972.575	ug/l	92
46) Methyl methacrylate	9.20	41	413358	52.092	ug/l	95
47) n-amyl Acetate	12.07	43	711647	52.827	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	758627	51.886	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	891150	50.250	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	491078	48.217	ug/l	100
51) Ethyl methacrylate	10.43	69	653323	52.718	ug/l	93
52) 1,3-Dichloropropane	10.71	76	849867	48.964	ug/l	100
53) Dibromochloromethane	10.90	129	557154	50.745	ug/l	97
54) 1,2-Dibromoethane	11.01	107	494721	49.249	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	1861023	255.495	ug/l	99
56) Bromoform	12.13	173	373725	50.832	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	2234050	255.213	ug/l	98
59) 2-Hexanone	10.75	43	1533445	253.543	ug/l	97
61) Tetrachloroethene	10.63	164	695274	48.968	ug/l	96
62) Toluene	10.16	91	2508085	48.034	ug/l	99
64) Chlorobenzene	11.43	112	1561651	48.274	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	551418	49.108	ug/l	99
66) Ethyl Benzene	11.51	91	2717766	49.197	ug/l	99
67) m/p-Xylenes	11.62	106	2031610	96.234	ug/l	98
68) o-Xylene	11.95	106	987519	48.609	ug/l	99
69) Styrene	11.96	104	1615874	49.853	ug/l	99
70) Isopropylbenzene	12.25	105	2605933	48.727	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	538769	47.697	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	446079m	45.676	ug/l	
73) Bromobenzene	12.53	156	656938	48.036	ug/l	94
74) n-propylbenzene	12.59	91	2911485	48.691	ug/l	98
75) 2-Chlorotoluene	12.68	91	1705539	47.406	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	2010017	47.448	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	167075	52.979	ug/l	93
78) 4-Chlorotoluene	12.77	91	1722158	47.420	ug/l	99
79) tert-butylbenzene	12.99	119	1754572	47.141	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	2010255	47.479	ug/l	99
81) sec-Butylbenzene	13.17	105	2304582	46.955	ug/l	99
82) p-Isopropyltoluene	13.29	119	1985956	47.490	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	1086750	46.362	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1061161	46.989	ug/l	99
85) n-Butylbenzene	13.62	91	1604495	48.371	ug/l	99
86) Hexachloroethane	13.88	117	317237	49.734	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	996468	44.690	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	71377	44.130	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	488561	51.239	ug/l	99
90) Hexachlorobutadiene	15.01	225	286493	41.372	ug/l	99
91) Naphthalene	15.13	128	1055570	55.572	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	444148	52.994	ug/l	97

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

