

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112818\
 Data File : VN052550.D
 Acq On : 29 Nov 2018 5:40
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 9:33:05 AM

Quant Time: Nov 29 07:34:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	187166	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1077076	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	931525	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	371627	29.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.13%
60) 4-Bromofluorobenzene	12.40	95	422717	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	10.09	98	1290509	29.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	192007	18.012	ug/l 100
3) Chloromethane	2.06	50	250778	17.739	ug/l 100
4) Vinyl Chloride	2.19	62	267321	18.735	ug/l 97
5) Bromomethane	2.58	94	149789	18.411	ug/l 96
6) Chloroethane	2.71	64	162305	19.128	ug/l 98
7) Trichlorofluoromethane	3.02	101	334696	19.007	ug/l 97
8) Diethyl Ether	3.41	74	124716	19.181	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	203913	18.267	ug/l 97
10) 1,1-Dichloroethene	3.74	96	200840	19.135	ug/l 98
11) Methyl Iodide	3.96	142	277079	19.014	ug/l 99
12) Methyl Acetate	4.33	43	163819	18.370	ug/l 99
13) Acrolein	3.61	56	87017	83.067	ug/l 99
14) Acrylonitrile	4.99	53	353159	92.942	ug/l 97
15) Acetone	3.82	58	78146	79.412	ug/l 100
16) Carbon Disulfide	4.06	76	582264	17.522	ug/l 100
17) Allyl chloride	4.33	41	302829	16.544	ug/l 97
18) Methylene Chloride	4.55	84	234272	19.277	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	217926	19.294	ug/l 95
20) Diisopropyl ether	5.95	45	718265	18.673	ug/l 99
21) 1,1-Dichloroethane	5.85	63	415381	18.946	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	246897	19.072	ug/l 97
23) tert-Butyl Alcohol	4.78	59	60308	106.692	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	545403	19.808	ug/l 98
25) Chloroform	7.37	83	407429	19.263	ug/l 97
26) Cyclohexane	7.66	56	372385	18.009	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	312273	18.985	ug/l 99
30) 2-Butanone	6.84	43	385198	87.520	ug/l 99
31) 2,2-Dichloropropane	6.83	77	220730	14.577	ug/l 95
32) 1,1,1-Trichloroethane	7.57	97	334458	19.542	ug/l 98
33) Carbon Tetrachloride	7.77	117	285714	19.079	ug/l 97
34) Benzene	8.04	78	945423	19.118	ug/l 99
35) Methacrylonitrile	7.17	41	97886	17.926	ug/l 97
36) 1,2-Dichloroethane	8.13	62	290655	19.396	ug/l 100
37) Trichloroethene	8.84	130	245161	19.551	ug/l 97
38) Methylcyclohexane	9.08	83	364664	17.910	ug/l 97
39) 1,2-Dichloropropane	9.12	63	247247	18.652	ug/l 96
40) Dibromomethane	9.21	93	141497	19.753	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	300676	18.998	ug/l	97
42) Vinyl Acetate	5.90	43	2179817	91.537	ug/l	99
43) Ethyl Acetate	6.93	43	176034	18.810	ug/l #	70
44) Isopropyl Acetate	8.17	43	325579	19.836	ug/l	99
45) 1,4-Dioxane	9.20	88	37799	420.961	ug/l	93
46) Methyl methacrylate	9.20	41	164238	19.272	ug/l	98
47) n-amyl Acetate	12.07	43	246950	18.146	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	273269	17.808	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	332858	17.803	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	202268	19.920	ug/l	99
51) Ethyl methacrylate	10.43	69	248971	19.523	ug/l	96
52) 1,3-Dichloropropane	10.71	76	343302	18.994	ug/l	99
53) Dibromochloromethane	10.90	129	214632	19.199	ug/l	99
54) 1,2-Dibromoethane	11.01	107	194691	19.622	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	695318	93.144	ug/l	99
56) Bromoform	12.13	173	137148	18.769	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	897232	99.351	ug/l	98
59) 2-Hexanone	10.75	43	573152	92.907	ug/l	98
61) Tetrachloroethene	10.63	164	243603	21.233	ug/l	98
62) Toluene	10.16	91	1011457	19.696	ug/l	99
64) Chlorobenzene	11.44	112	617086	19.688	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	214170	19.685	ug/l	99
66) Ethyl Benzene	11.51	91	1079366	19.502	ug/l	99
67) m/p-Xylenes	11.62	106	814254	39.490	ug/l	99
68) o-Xylene	11.95	106	399079	19.941	ug/l	98
69) Styrene	11.96	104	632166	19.570	ug/l	100
70) Isopropylbenzene	12.25	105	1059290	19.893	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	229708	19.831	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	206699m	20.788	ug/l	
73) Bromobenzene	12.53	156	258981	20.110	ug/l	95
74) n-propylbenzene	12.59	91	1187852	19.146	ug/l	100
75) 2-Chlorotoluene	12.68	91	707209	19.638	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	846846	19.690	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	49908	15.889	ug/l	94
78) 4-Chlorotoluene	12.77	91	697174	19.386	ug/l	100
79) tert-butylbenzene	12.99	119	754417	20.141	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	850433	19.761	ug/l	99
81) sec-Butylbenzene	13.17	105	999480	19.158	ug/l	100
82) p-Isopropyltoluene	13.29	119	855881	19.266	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	442493	19.536	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	427567	19.538	ug/l	98
85) n-Butylbenzene	13.62	91	684777	17.945	ug/l	99
86) Hexachloroethane	13.88	117	135319	17.977	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	430958	19.994	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30599	18.859	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	200576	18.888	ug/l	99
90) Hexachlorobutadiene	15.01	225	131037	18.810	ug/l	100
91) Naphthalene	15.14	128	411432	19.186	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	188885	19.301	ug/l	98

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

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