

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050910.D
 Acq On : 28 Aug 2018 13:15
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:01 AM

Quant Time: Aug 29 01:31:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:19:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	129057	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	708887	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	640589	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	242785	29.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.27%
60) 4-Bromofluorobenzene	12.40	95	293201	30.78	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.60%
63) Toluene-d8	10.09	98	882025	29.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.43%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	822744	102.65	ug/l	99
3) Chloromethane	2.06	50	917831	96.98	ug/l	100
4) Vinyl Chloride	2.18	62	919109	98.29	ug/l	99
5) Bromomethane	2.55	94	554541	97.29	ug/l	100
6) Chloroethane	2.70	64	532547	96.55	ug/l	97
7) Trichlorofluoromethane	3.01	101	1220771	98.48	ug/l	99
8) Diethyl Ether	3.41	74	447699	102.43	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	749861	97.68	ug/l	99
10) 1,1-Dichloroethene	3.73	96	701241	100.56	ug/l	99
11) Methyl Iodide	3.95	142	749989	115.27	ug/l	98
12) Methyl Acetate	4.33	43	836866	103.78	ug/l	99
13) Acrolein	3.61	56	78806	441.35	ug/l	99
14) Acrylonitrile	4.99	53	1410528	517.36	ug/l	98
15) Acetone	3.82	58	333523	478.06	ug/l	95
16) Carbon Disulfide	4.05	76	2080713	99.23	ug/l	100
17) Allyl chloride	4.32	41	1140724	103.96	ug/l	99
18) Methylene Chloride	4.55	84	789153	96.41	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	743221	100.03	ug/l	99
20) Diisopropyl ether	5.96	45	2324323	102.05	ug/l	96
21) 1,1-Dichloroethane	5.85	63	1375169	98.47	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	845952	100.80	ug/l	99
23) tert-Butyl Alcohol	4.80	59	303044	522.65	ug/l	100
24) Methyl tert-Butyl Ether	5.05	73	2000451	104.88	ug/l	100
25) Chloroform	7.37	83	1360315	97.60	ug/l	98
26) Cyclohexane	7.66	56	1217372	105.22	ug/l #	98
29) 1,1-Dichloropropene	7.80	75	1072743	101.08	ug/l	99
30) 2-Butanone	6.84	43	1599251	489.84	ug/l	100
31) 2,2-Dichloropropane	6.83	77	1070194	103.63	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	1170257	97.24	ug/l	99
33) Carbon Tetrachloride	7.78	117	1057947	97.62	ug/l	96
34) Benzene	8.04	78	3211384	97.82	ug/l #	92
35) Methacrylonitrile	7.18	41	379622	106.13	ug/l	96
36) 1,2-Dichloroethane	8.13	62	953174	96.00	ug/l	100
37) Trichloroethene	8.84	130	844269	98.39	ug/l	98
38) Methylcyclohexane	9.08	83	1192740	104.64	ug/l	97
39) 1,2-Dichloropropane	9.12	63	841455	98.13	ug/l	99
40) Dibromomethane	9.21	93	503089	97.40	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1068032	98.09	ug/l	98
42) Vinyl Acetate	5.90	43	7749349	515.32	ug/l	99
43) Ethyl Acetate	6.93	43	673069	100.64	ug/l	94
44) Isopropyl Acetate	8.17	43	1211367	102.64	ug/l	97
45) 1,4-Dioxane	9.20	88	179645	2049.14	ug/l	98
46) Methyl methacrylate	9.20	41	628322	106.30	ug/l	97
47) n-amyl Acetate	12.07	43	1043638	109.99	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	1124865	105.39	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	1274046	103.91	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	735305	97.98	ug/l	99
51) Ethyl methacrylate	10.43	69	984854	107.25	ug/l	99
52) 1,3-Dichloropropane	10.71	76	1235356	99.37	ug/l	99
53) Dibromochloromethane	10.90	129	855384	100.23	ug/l	99
54) 1,2-Dibromoethane	11.01	107	744148	100.28	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	2089052	546.77	ug/l	99
56) Bromoform	12.13	173	625289	103.02	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	3550671	484.45	ug/l	98
59) 2-Hexanone	10.75	43	2398418	500.63	ug/l	98
61) Tetrachloroethene	10.63	164	766752	96.05	ug/l	99
62) Toluene	10.16	91	3503871	98.04	ug/l	100
64) Chlorobenzene	11.44	112	2198545	99.26	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	820981	98.17	ug/l	99
66) Ethyl Benzene	11.51	91	3818701	103.16	ug/l	99
67) m/p-Xylenes	11.62	106	2909784	204.29	ug/l	100
68) o-Xylene	11.95	106	1410918	103.67	ug/l	100
69) Styrene	11.97	104	2282241	105.47	ug/l	99
70) Isopropylbenzene	12.25	105	3725933	103.03	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	949429	96.97	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	847584m	100.65	ug/l	
73) Bromobenzene	12.53	156	955655	100.44	ug/l	100
74) n-propylbenzene	12.59	91	4241145	103.73	ug/l	99
75) 2-Chlorotoluene	12.68	91	2496354	100.50	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	3016914	102.09	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	260575	108.27	ug/l	94
78) 4-Chlorotoluene	12.77	91	2514912	102.83	ug/l	99
79) tert-butylbenzene	12.99	119	2640253	102.87	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	3053729	103.64	ug/l	99
81) sec-Butylbenzene	13.17	105	3445435	102.60	ug/l	99
82) p-Isopropyltoluene	13.29	119	3024922	104.36	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1652751	102.74	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1602322	105.12	ug/l	99
85) n-Butylbenzene	13.62	91	2459360	111.20	ug/l	98
86) Hexachloroethane	13.88	117	549490	98.77	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	1588008	100.29	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	138261	100.93	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	844302	119.78	ug/l	99
90) Hexachlorobutadiene	15.01	225	463657	96.81	ug/l	99
91) Naphthalene	15.14	128	1902805	125.94	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	815375	115.27	ug/l	100

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

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