

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052017.D
 Acq On : 25 Oct 2018 18:17
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 9:20:14 AM

Quant Time: Oct 26 02:34:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	183261	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1013808	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	923250	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	303580	27.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	90.73%
60) 4-Bromofluorobenzene	12.40	95	373709	28.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.57%
63) Toluene-d8	10.09	98	1157885	28.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	153243	21.524	ug/l 100
3) Chloromethane	2.06	50	142218	18.900	ug/l 97
4) Vinyl Chloride	2.19	62	173467	15.437	ug/l 97
5) Bromomethane	2.57	94	173233	17.448	ug/l 83
6) Chloroethane	2.71	64	128302	15.843	ug/l 98
7) Trichlorofluoromethane	3.02	101	332627	20.763	ug/l 94
8) Diethyl Ether	3.41	74	96704	20.735	ug/l 69
9) 1,1,2-Trichlorotrifluoroet	3.76	101	202017m	22.142	ug/l
10) 1,1-Dichloroethene	3.74	96	182140	21.587	ug/l 82
11) Methyl Iodide	3.96	142	323639	26.386	ug/l 96
12) Methyl Acetate	4.33	43	108374	20.684	ug/l # 89
13) Acrolein	3.61	56	13544	39.235	ug/l 93
14) Acrylonitrile	4.99	53	235581	100.603	ug/l # 61
15) Acetone	3.82	58	52648	90.950	ug/l 99
16) Carbon Disulfide	4.06	76	401856	18.135	ug/l 98
17) Allyl chloride	4.33	41	169442	16.915	ug/l 76
18) Methylene Chloride	4.55	84	208281	22.078	ug/l # 84
19) trans-1,2-Dichloroethene	5.05	96	204545	21.231	ug/l # 81
20) Diisopropyl ether	5.95	45	441267	19.779	ug/l # 83
21) 1,1-Dichloroethane	5.85	63	325368	20.872	ug/l # 98
22) cis-1,2-Dichloroethene	6.83	96	249759	22.071	ug/l # 76
23) tert-Butyl Alcohol	4.77	59	39832	64.586	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	471995m	19.416	ug/l
25) Chloroform	7.37	83	395952	21.410	ug/l 94
26) Cyclohexane	7.65	56	243425	18.419	ug/l # 66
29) 1,1-Dichloropropene	7.80	75	273433	20.924	ug/l 93
30) 2-Butanone	6.84	43	244367	89.466	ug/l # 85
31) 2,2-Dichloropropane	6.83	77	288136	18.743	ug/l # 75
32) 1,1,1-Trichloroethane	7.57	97	361485	20.864	ug/l 94
33) Carbon Tetrachloride	7.78	117	321938	20.538	ug/l 91
34) Benzene	8.04	78	832819	21.545	ug/l # 65
35) Methacrylonitrile	7.17	41	51308	14.298	ug/l # 70
36) 1,2-Dichloroethane	8.12	62	260141	21.003	ug/l # 94
37) Trichloroethene	8.84	130	269907	22.493	ug/l 94
38) Methylcyclohexane	9.08	83	321706	19.194	ug/l 77
39) 1,2-Dichloropropane	9.12	63	190593	20.937	ug/l 97
40) Dibromomethane	9.21	93	146026	21.613	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	286643	20.540	ug/l	95
42) Vinyl Acetate	5.90	43	1449067	94.243	ug/l #	88
43) Ethyl Acetate	6.93	43	114166	19.250	ug/l	99
44) Isopropyl Acetate	8.16	43	216898	18.309	ug/l	95
45) 1,4-Dioxane	9.20	88	25716	270.355	ug/l #	74
46) Methyl methacrylate	9.20	41	102387	18.738	ug/l	68
47) n-amyl Acetate	12.07	43	189110m	19.070	ug/l	
48) t-1,3-Dichloropropene	10.38	75	252127	18.527	ug/l	95
49) cis-1,3-Dichloropropene	9.84	75	298582	19.903	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	204430	21.899	ug/l	94
51) Ethyl methacrylate	10.43	69	206175	19.291	ug/l	84
52) 1,3-Dichloropropane	10.71	76	308691	21.426	ug/l	99
53) Dibromochloromethane	10.90	129	231073	20.009	ug/l	94
54) 1,2-Dibromoethane	11.00	107	213430	21.782	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	527452	115.446	ug/l #	91
56) Bromoform	12.12	173	139665	18.338	ug/l #	95
58) 4-Methyl-2-Pentanone	9.98	43	584068	94.535	ug/l #	86
59) 2-Hexanone	10.75	43	377614	90.595	ug/l #	88
61) Tetrachloroethene	10.63	164	264846	22.431	ug/l	96
62) Toluene	10.16	91	1005665	21.926	ug/l	99
64) Chlorobenzene	11.43	112	676830	22.532	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	249652	21.653	ug/l	99
66) Ethyl Benzene	11.51	91	1083201	21.369	ug/l	98
67) m/p-Xylenes	11.62	106	890011	43.307	ug/l	93
68) o-Xylene	11.95	106	425950	21.024	ug/l	87
69) Styrene	11.96	104	679134	21.848	ug/l	95
70) Isopropylbenzene	12.25	105	1148571	21.259	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	203849	19.106	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	172313m	20.529	ug/l	
73) Bromobenzene	12.53	156	314905	23.532	ug/l	74
74) n-propylbenzene	12.59	91	1205901	20.751	ug/l	92
75) 2-Chlorotoluene	12.67	91	709826	20.834	ug/l	89
76) 1,3,5-Trimethylbenzene	12.73	105	914374	20.467	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	42402	15.275	ug/l	93
78) 4-Chlorotoluene	12.77	91	699897	20.909	ug/l	86
79) tert-butylbenzene	12.99	119	849693	20.681	ug/l	92
80) 1,2,4-Trimethylbenzene	13.04	105	919230	20.587	ug/l	94
81) sec-Butylbenzene	13.17	105	1087352	20.231	ug/l	94
82) p-Isopropyltoluene	13.29	119	981262	20.403	ug/l	95
83) 1,3-Dichlorobenzene	13.28	146	534161	22.621	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	522950	23.525	ug/l	98
85) n-Butylbenzene	13.61	91	715237	19.721	ug/l	94
86) Hexachloroethane	13.87	117	138251	16.671	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	501102	21.920	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.27	75	23045	14.463	ug/l #	59
89) 1,2,4-Trichlorobenzene	14.91	180	192243	20.469	ug/l	97
90) Hexachlorobutadiene	15.01	225	123898	16.818	ug/l	96
91) Naphthalene	15.13	128	357720	19.974	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	154405	14.845	ug/l	93

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

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