

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050687.D
 Acq On : 16 Aug 2018 5:40
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:05:41 PM

Quant Time: Aug 16 08:16:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	123679	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	673648	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	581467	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	245863	29.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.50%
60) 4-Bromofluorobenzene	12.40	95	262762	29.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.03%
63) Toluene-d8	10.09	98	848737	30.56	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	133743	15.69	ug/l	97
3) Chloromethane	2.06	50	175303	19.95	ug/l	98
4) Vinyl Chloride	2.18	62	182125	19.47	ug/l	98
5) Bromomethane	2.57	94	97911	17.17	ug/l	99
6) Chloroethane	2.70	64	111188	20.10	ug/l	95
7) Trichlorofluoromethane	3.01	101	238329	19.50	ug/l	97
8) Diethyl Ether	3.41	74	81433	19.86	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	142842	19.21	ug/l	99
10) 1,1-Dichloroethene	3.73	96	131578	19.95	ug/l	93
11) Methyl Iodide	3.95	142	92991	9.58	ug/l	99
12) Methyl Acetate	4.33	43	122480	16.21	ug/l	99
13) Acrolein	3.61	56	12719	27.25	ug/l	97
14) Acrylonitrile	4.99	53	236638	93.88	ug/l	98
15) Acetone	3.82	58	71458	106.68	ug/l	90
16) Carbon Disulfide	4.05	76	400765	19.86	ug/l	98
17) Allyl chloride	4.33	41	192691	18.50	ug/l	96
18) Methylene Chloride	4.55	84	159969	21.02	ug/l	99
19) trans-1,2-Dichloroethene	5.05	96	147076	20.83	ug/l	97
20) Diisopropyl ether	5.96	45	457714	21.44	ug/l	99
21) 1,1-Dichloroethane	5.85	63	276981	20.63	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	161329	20.61	ug/l	94
23) tert-Butyl Alcohol	4.80	59	45663	81.08	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	353132	19.64	ug/l	98
25) Chloroform	7.37	83	278673	20.50	ug/l	98
26) Cyclohexane	7.66	56	221574	20.77	ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	204718	19.58	ug/l	99
30) 2-Butanone	6.84	43	323975	98.75	ug/l	98
31) 2,2-Dichloropropane	6.83	77	121432	10.51	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	234337	19.04	ug/l	100
33) Carbon Tetrachloride	7.78	117	208522	19.01	ug/l	99
34) Benzene	8.04	78	630800	19.87	ug/l	100
35) Methacrylonitrile	7.18	41	63485	17.00	ug/l	95
36) 1,2-Dichloroethane	8.13	62	195602	18.76	ug/l	99
37) Trichloroethene	8.84	130	162276	19.49	ug/l	98
38) Methylcyclohexane	9.08	83	206177	18.71	ug/l	99
39) 1,2-Dichloropropane	9.12	63	167141	19.98	ug/l	96
40) Dibromomethane	9.21	93	98714	19.10	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	210108	19.27	ug/l	98
42) Vinyl Acetate	5.90	43	1438311	93.17	ug/l	100
43) Ethyl Acetate	6.93	43	132975m	19.41	ug/l	
44) Isopropyl Acetate	8.17	43	246602	19.43	ug/l	97
45) 1,4-Dioxane	9.20	88	28269	338.52	ug/l	93
46) Methyl methacrylate	9.20	41	100123	16.28	ug/l	98
47) n-amyl Acetate	12.07	43	166248	16.84	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	179490	17.27	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	217009	17.77	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	141144	19.02	ug/l	97
51) Ethyl methacrylate	10.43	69	162055	17.99	ug/l	99
52) 1,3-Dichloropropane	10.71	76	231077	18.96	ug/l	99
53) Dibromochloromethane	10.90	129	153795	18.26	ug/l	98
54) 1,2-Dibromoethane	11.01	107	134704	18.54	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	390465	95.80	ug/l	100
56) Bromoform	12.13	173	104194	17.52	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	764186	112.95	ug/l	99
59) 2-Hexanone	10.75	43	479367	103.85	ug/l	99
61) Tetrachloroethene	10.63	164	156573	19.88	ug/l	97
62) Toluene	10.16	91	674829	20.34	ug/l	100
64) Chlorobenzene	11.44	112	406317	20.20	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	156590	19.96	ug/l	99
66) Ethyl Benzene	11.51	91	670783	19.79	ug/l	100
67) m/p-Xylenes	11.62	106	529969	40.62	ug/l	99
68) o-Xylene	11.95	106	252593	20.35	ug/l	99
69) Styrene	11.97	104	403542	20.28	ug/l	100
70) Isopropylbenzene	12.25	105	665655	20.13	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	170292	18.76	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	128558m	16.58	ug/l	
73) Bromobenzene	12.53	156	170625	19.37	ug/l	100
74) n-propylbenzene	12.59	91	740629	19.23	ug/l	99
75) 2-Chlorotoluene	12.68	91	457567	19.79	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	543734	20.02	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	31231	12.32	ug/l	95
78) 4-Chlorotoluene	12.77	91	450887	19.67	ug/l	100
79) tert-butylbenzene	12.99	119	459898	19.81	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	553210	20.11	ug/l	100
81) sec-Butylbenzene	13.17	105	604178	19.16	ug/l	100
82) p-Isopropyltoluene	13.29	119	513146	19.07	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	286701	18.70	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	269788	18.62	ug/l	99
85) n-Butylbenzene	13.62	91	373107	17.09	ug/l	99
86) Hexachloroethane	13.88	117	97672	18.16	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	283255	18.90	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22184	15.69	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	111647	15.59	ug/l	99
90) Hexachlorobutadiene	15.01	225	80991	17.16	ug/l	99
91) Naphthalene	15.13	128	224726	17.65	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	116341	15.98	ug/l	99

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

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