

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050047.D
 Acq On : 25 Jul 2018 15:56
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:37 PM

Quant Time: Jul 26 06:49:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 25 10:32:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	124978	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	649457	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	568215	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	260065	30.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.03%
60) 4-Bromofluorobenzene	12.40	95	253662	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	10.09	98	815237	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	175842	20.42	ug/l	99
3) Chloromethane	2.06	50	170800	19.23	ug/l	100
4) Vinyl Chloride	2.18	62	182441	19.30	ug/l	99
5) Bromomethane	2.56	94	117103	20.32	ug/l	99
6) Chloroethane	2.70	64	105562	18.88	ug/l	99
7) Trichlorofluoromethane	3.01	101	238682	19.32	ug/l	99
8) Diethyl Ether	3.41	74	82648	19.94	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	150042	19.97	ug/l	98
10) 1,1-Dichloroethene	3.73	96	126843	19.04	ug/l	93
11) Methyl Iodide	3.95	142	166075	16.94	ug/l	99
12) Methyl Acetate	4.33	43	162846	21.33	ug/l	97
13) Acrolein	3.61	56	34874	73.93	ug/l	100
14) Acrylonitrile	4.99	53	256822	100.83	ug/l	99
15) Acetone	3.82	58	71541	105.69	ug/l	96
16) Carbon Disulfide	4.05	76	375670	18.42	ug/l	100
17) Allyl chloride	4.32	41	202896	19.28	ug/l	99
18) Methylene Chloride	4.55	84	149671	19.47	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	137499	19.27	ug/l	95
20) Diisopropyl ether	5.96	45	435577	20.19	ug/l	99
21) 1,1-Dichloroethane	5.85	63	263140	19.39	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	154831	19.57	ug/l	100
23) tert-Butyl Alcohol	4.80	59	60312	105.88	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	371770	20.46	ug/l	100
25) Chloroform	7.37	83	270484	19.69	ug/l	99
26) Cyclohexane	7.65	56	206078	19.11	ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	195174	19.36	ug/l	99
30) 2-Butanone	6.84	43	316592	100.10	ug/l	98
31) 2,2-Dichloropropane	6.82	77	214756	19.28	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	225845	19.04	ug/l	99
33) Carbon Tetrachloride	7.77	117	201445	19.05	ug/l	98
34) Benzene	8.04	78	589769	19.27	ug/l	99
35) Methacrylonitrile	7.18	41	69048	19.17	ug/l	96
36) 1,2-Dichloroethane	8.13	62	197507	19.65	ug/l	100
37) Trichloroethene	8.84	130	156126	19.45	ug/l	95
38) Methylcyclohexane	9.08	83	198931	18.72	ug/l	99
39) 1,2-Dichloropropane	9.12	63	158157	19.61	ug/l	99
40) Dibromomethane	9.21	93	98541	19.77	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	202846	19.30	ug/l	97
42) Vinyl Acetate	5.90	43	1467915	98.63	ug/l	99
43) Ethyl Acetate	6.93	43	128816	19.50	ug/l	94
44) Isopropyl Acetate	8.17	43	255699	20.90	ug/l	95
45) 1,4-Dioxane	9.20	88	32137	399.18	ug/l	95
46) Methyl methacrylate	9.20	41	118284	19.94	ug/l	98
47) n-amyl Acetate	12.07	43	171962	18.06	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	195602	18.77	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	228624	19.42	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	140830	19.69	ug/l	98
51) Ethyl methacrylate	10.43	69	162891	18.76	ug/l	98
52) 1,3-Dichloropropane	10.71	76	230943	19.66	ug/l	97
53) Dibromochloromethane	10.90	129	155318	19.13	ug/l	99
54) 1,2-Dibromoethane	11.01	107	136556	19.49	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	397675	101.20	ug/l	99
56) Bromoform	12.13	173	108388	18.91	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	689939	104.35	ug/l	99
59) 2-Hexanone	10.75	43	453145	100.46	ug/l	99
61) Tetrachloroethene	10.63	164	149399	19.41	ug/l	97
62) Toluene	10.16	91	626484	19.32	ug/l	99
64) Chlorobenzene	11.44	112	379324	19.30	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	149193	19.46	ug/l	99
66) Ethyl Benzene	11.51	91	627419	18.94	ug/l	99
67) m/p-Xylenes	11.62	106	490398	38.46	ug/l	100
68) o-Xylene	11.95	106	229196	18.89	ug/l	98
69) Styrene	11.97	104	366983	18.87	ug/l	99
70) Isopropylbenzene	12.25	105	622258	19.26	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	175969	19.84	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	152486m	20.85	ug/l	
73) Bromobenzene	12.53	156	164456	19.11	ug/l	99
74) n-propylbenzene	12.59	91	708017	18.82	ug/l	100
75) 2-Chlorotoluene	12.68	91	436604	19.32	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	506591	19.09	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	45152	18.23	ug/l	93
78) 4-Chlorotoluene	12.78	91	423575	18.91	ug/l	99
79) tert-butylbenzene	12.99	119	431613	19.03	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	518943	19.30	ug/l	99
81) sec-Butylbenzene	13.17	105	588243	19.09	ug/l	100
82) p-Isopropyltoluene	13.29	119	500922	19.05	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	280485	18.72	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	270719	19.12	ug/l	99
85) n-Butylbenzene	13.62	91	387623	18.16	ug/l	99
86) Hexachloroethane	13.88	117	96352	18.34	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	282549	19.29	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28181	20.39	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	127693	18.25	ug/l	99
90) Hexachlorobutadiene	15.01	225	89341	19.37	ug/l	98
91) Naphthalene	15.14	128	272169	20.05	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	133280	18.73	ug/l	100

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

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