

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050912.D
 Acq On : 28 Aug 2018 14:18
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICV020

Manual Integrations
 APPROVED

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

Quant Time: Aug 29 01:41:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	126048	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	685814	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	584860	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	240880	29.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.83%
60) 4-Bromofluorobenzene	12.40	95	254635	29.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.60%
63) Toluene-d8	10.09	98	839630	30.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	164187	20.97	ug/l	100
3) Chloromethane	2.06	50	179915	19.46	ug/l	100
4) Vinyl Chloride	2.18	62	181700	19.90	ug/l	99
5) Bromomethane	2.56	94	111569	20.04	ug/l	99
6) Chloroethane	2.70	64	104655	19.43	ug/l	97
7) Trichlorofluoromethane	3.01	101	249198	20.58	ug/l	100
8) Diethyl Ether	3.41	74	86161	20.18	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	155822	20.78	ug/l	99
10) 1,1-Dichloroethene	3.73	96	140422	20.62	ug/l	98
11) Methyl Iodide	3.95	142	117013	18.41	ug/l	99
12) Methyl Acetate	4.33	43	159933	20.31	ug/l	97
13) Acrolein	3.61	56	14931	85.62	ug/l	97
14) Acrylonitrile	5.00	53	254136	95.44	ug/l	97
15) Acetone	3.82	58	62775	92.13	ug/l	96
16) Carbon Disulfide	4.05	76	428838	20.94	ug/l	100
17) Allyl chloride	4.32	41	213900	19.96	ug/l	98
18) Methylene Chloride	4.55	84	156121	19.53	ug/l	96
19) trans-1,2-Dichloroethene	5.04	96	151235	20.84	ug/l	94
20) Diisopropyl ether	5.96	45	458418	20.61	ug/l	96
21) 1,1-Dichloroethane	5.85	63	269156	19.73	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	163301	19.92	ug/l	98
23) tert-Butyl Alcohol	4.79	59	55645	98.26	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	378780	20.33	ug/l	100
25) Chloroform	7.37	83	272425	20.01	ug/l	99
26) Cyclohexane	7.65	56	231464	20.48	ug/l #	99
29) 1,1-Dichloropropene	7.79	75	206055	20.07	ug/l	97
30) 2-Butanone	6.84	43	284013	89.92	ug/l	100
31) 2,2-Dichloropropane	6.83	77	207834	20.80	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	233208	20.03	ug/l	99
33) Carbon Tetrachloride	7.77	117	206458	19.69	ug/l	97
34) Benzene	8.04	78	625033	19.68	ug/l	99
35) Methacrylonitrile	7.18	41	66038	19.08	ug/l	98
36) 1,2-Dichloroethane	8.12	62	189229	19.70	ug/l	99
37) Trichloroethene	8.84	130	165501	19.94	ug/l	96
38) Methylcyclohexane	9.08	83	221894	20.12	ug/l	99
39) 1,2-Dichloropropane	9.12	63	163019	19.65	ug/l	97
40) Dibromomethane	9.21	93	96598	19.33	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	202397	19.21	ug/l	98
42) Vinyl Acetate	5.90	43	1408395	96.81	ug/l	99
43) Ethyl Acetate	6.93	43	112976	17.46	ug/l	94
44) Isopropyl Acetate	8.17	43	217803	19.08	ug/l	99
45) 1,4-Dioxane	9.20	88	30343	357.75	ug/l	98
46) Methyl methacrylate	9.20	41	105351	18.42	ug/l	99
47) n-amyl Acetate	12.07	43	161846	17.63	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	193627	18.75	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	230289	19.41	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	139281	19.18	ug/l	98
51) Ethyl methacrylate	10.43	69	161735	18.21	ug/l	99
52) 1,3-Dichloropropane	10.71	76	230003	19.12	ug/l	99
53) Dibromochloromethane	10.90	129	153058	18.54	ug/l	100
54) 1,2-Dibromoethane	11.01	107	133476	18.59	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	330853	89.51	ug/l	99
56) Bromoform	12.13	173	105737	18.01	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	630356	94.20	ug/l	99
59) 2-Hexanone	10.75	43	399469	91.33	ug/l	99
61) Tetrachloroethene	10.63	164	149416	20.50	ug/l	99
62) Toluene	10.16	91	655698	20.10	ug/l	100
64) Chlorobenzene	11.44	112	401773	19.87	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	154534	20.24	ug/l	99
66) Ethyl Benzene	11.51	91	659632	19.52	ug/l	99
67) m/p-Xylenes	11.62	106	516470	39.72	ug/l	99
68) o-Xylene	11.95	106	246310	19.82	ug/l	100
69) Styrene	11.97	104	384856	19.48	ug/l	100
70) Isopropylbenzene	12.25	105	664795	20.13	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	170923	19.12	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	148543m	19.26	ug/l	
73) Bromobenzene	12.53	156	167758	19.31	ug/l	99
74) n-propylbenzene	12.59	91	741972	19.88	ug/l	100
75) 2-Chlorotoluene	12.68	91	449545	19.82	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	540493	20.03	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	38205	17.39	ug/l	99
78) 4-Chlorotoluene	12.77	91	437476	19.59	ug/l	99
79) tert-butylbenzene	12.99	119	466046	19.89	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	539541	20.06	ug/l	100
81) sec-Butylbenzene	13.17	105	613535	20.01	ug/l	100
82) p-Isopropyltoluene	13.29	119	525148	19.84	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	286665	19.52	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	273390	19.65	ug/l	99
85) n-Butylbenzene	13.62	91	393003	19.46	ug/l	100
86) Hexachloroethane	13.88	117	99195	19.53	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	284059	19.65	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	23857	19.08	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	127895	19.87	ug/l	99
90) Hexachlorobutadiene	15.01	225	99121	22.67	ug/l	99
91) Naphthalene	15.14	128	274589	22.23	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	136621	21.16	ug/l	99

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

