

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050917.D
 Acq On : 28 Aug 2018 16:34
 Operator : MD\SY
 Sample : VN0828WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0828WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:25 AM

Quant Time: Aug 28 16:52:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 28 14:02:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	126194	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	656529	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	561281	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	236880	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	12.40	95	245105	29.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.90%
63) Toluene-d8	10.09	98	811839	31.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	155541	19.85	ug/l	98
3) Chloromethane	2.06	50	171613	18.54	ug/l	100
4) Vinyl Chloride	2.18	62	172170	18.83	ug/l	100
5) Bromomethane	2.56	94	97674	17.53	ug/l	98
6) Chloroethane	2.70	64	98885	18.34	ug/l	98
7) Trichlorofluoromethane	3.01	101	231262	19.08	ug/l	98
8) Diethyl Ether	3.41	74	81676	19.11	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	143583	19.13	ug/l	99
10) 1,1-Dichloroethene	3.73	96	130346	19.12	ug/l	93
11) Methyl Iodide	3.95	142	108024	16.98	ug/l	98
12) Methyl Acetate	4.33	43	153406	19.46	ug/l	99
13) Acrolein	3.62	56	13587	77.82	ug/l	94
14) Acrylonitrile	5.00	53	242611	91.00	ug/l	97
15) Acetone	3.82	58	61226	89.75	ug/l	85
16) Carbon Disulfide	4.05	76	383269	18.69	ug/l	99
17) Allyl chloride	4.33	41	196651	18.33	ug/l	94
18) Methylene Chloride	4.55	84	148184	18.51	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	136167	18.74	ug/l	99
20) Diisopropyl ether	5.96	45	436260	19.59	ug/l	99
21) 1,1-Dichloroethane	5.85	63	257573	18.86	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	149754	18.25	ug/l	99
23) tert-Butyl Alcohol	4.80	59	52152	91.99	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	352875	18.92	ug/l	98
25) Chloroform	7.37	83	258239	18.95	ug/l	97
26) Cyclohexane	7.66	56	209598	18.53	ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	190242	19.36	ug/l	99
30) 2-Butanone	6.84	43	268215	88.70	ug/l	98
31) 2,2-Dichloropropane	6.83	77	186876	19.54	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	218291	19.59	ug/l	99
33) Carbon Tetrachloride	7.78	117	194758	19.40	ug/l	100
34) Benzene	8.04	78	589239	19.38	ug/l	98
35) Methacrylonitrile	7.18	41	66253	20.00	ug/l	90
36) 1,2-Dichloroethane	8.13	62	179390	19.51	ug/l	99
37) Trichloroethene	8.84	130	152595	19.20	ug/l	96
38) Methylcyclohexane	9.08	83	194593	18.43	ug/l	99
39) 1,2-Dichloropropane	9.12	63	153957	19.39	ug/l	96
40) Dibromomethane	9.21	93	91071	19.04	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	191107	18.95	ug/l	98
42) Vinyl Acetate	5.90	43	1325070	95.14	ug/l	100
43) Ethyl Acetate	6.94	43	121748	19.66	ug/l #	92
44) Isopropyl Acetate	8.17	43	209675	19.18	ug/l	100
45) 1,4-Dioxane	9.20	88	31167	383.86	ug/l	97
46) Methyl methacrylate	9.20	41	103930	18.99	ug/l	96
47) n-amyl Acetate	12.07	43	152629	17.37	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	178421	18.05	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	215023	18.94	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	133574	19.22	ug/l	98
51) Ethyl methacrylate	10.43	69	151496	17.81	ug/l	97
52) 1,3-Dichloropropane	10.71	76	218984	19.02	ug/l	99
53) Dibromochloromethane	10.90	129	145250	18.38	ug/l	99
54) 1,2-Dibromoethane	11.01	107	127311	18.52	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	318108	89.90	ug/l	99
56) Bromoform	12.13	173	98233	17.48	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	618109	96.25	ug/l	98
59) 2-Hexanone	10.75	43	383842	91.44	ug/l	100
61) Tetrachloroethene	10.63	164	140006	20.02	ug/l	97
62) Toluene	10.16	91	607719	19.41	ug/l	99
64) Chlorobenzene	11.44	112	368433	18.98	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	144645	19.74	ug/l	99
66) Ethyl Benzene	11.51	91	606349	18.69	ug/l	99
67) m/p-Xylenes	11.62	106	474442	38.02	ug/l	100
68) o-Xylene	11.95	106	228829	19.19	ug/l	100
69) Styrene	11.97	104	353423	18.64	ug/l	99
70) Isopropylbenzene	12.25	105	604639	19.08	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	167765	19.56	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	126450m	18.77	ug/l	
73) Bromobenzene	12.53	156	155935	18.70	ug/l	99
74) n-propylbenzene	12.59	91	672624	18.78	ug/l	99
75) 2-Chlorotoluene	12.68	91	410748	18.87	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	492708	19.03	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	36699	17.40	ug/l	96
78) 4-Chlorotoluene	12.77	91	402124	18.77	ug/l	99
79) tert-butylbenzene	12.99	119	423342	18.83	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	494746	19.16	ug/l	98
81) sec-Butylbenzene	13.17	105	556254	18.91	ug/l	100
82) p-Isopropyltoluene	13.29	119	471511	18.57	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	257170	18.25	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	243620	18.24	ug/l	99
85) n-Butylbenzene	13.62	91	339796	17.53	ug/l	99
86) Hexachloroethane	13.88	117	89024	18.26	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	258566	18.64	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22490	18.74	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	102498	16.60	ug/l	99
90) Hexachlorobutadiene	15.01	225	83292	19.85	ug/l	98
91) Naphthalene	15.14	128	210547	19.48	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	110806	17.88	ug/l	97

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

