

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051009.D
 Acq On : 4 Sep 2018 11:00
 Operator : MD\SY
 Sample : VN0904WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0904WBS02

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:17 PM

Quant Time: Sep 04 11:25:45 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	115937	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	621027	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	540176	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	216629	29.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.60%
60) 4-Bromofluorobenzene	12.40	95	236929	29.50	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.33%
63) Toluene-d8	10.09	98	778818	30.92	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	135982	18.89	ug/l	98
3) Chloromethane	2.06	50	155780	18.32	ug/l	99
4) Vinyl Chloride	2.18	62	155661	18.53	ug/l	99
5) Bromomethane	2.57	94	85849	16.77	ug/l	98
6) Chloroethane	2.70	64	93147	18.80	ug/l	97
7) Trichlorofluoromethane	3.01	101	213453	19.17	ug/l	98
8) Diethyl Ether	3.41	74	69976	17.82	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	133663	19.38	ug/l	99
10) 1,1-Dichloroethene	3.74	96	116985	18.67	ug/l	97
11) Methyl Iodide	3.95	142	82849	14.17	ug/l	99
12) Methyl Acetate	4.33	43	139001	19.19	ug/l	98
13) Acrolein	3.61	56	7181	44.77	ug/l	90
14) Acrylonitrile	4.99	53	202234	82.57	ug/l	97
15) Acetone	3.82	58	49315	78.69	ug/l	97
16) Carbon Disulfide	4.05	76	334209	17.74	ug/l	100
17) Allyl chloride	4.33	41	179491	18.21	ug/l	98
18) Methylene Chloride	4.55	84	140088	19.05	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	125902	18.86	ug/l	96
20) Diisopropyl ether	5.96	45	394571	19.28	ug/l	98
21) 1,1-Dichloroethane	5.85	63	239645	19.10	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	140740	18.67	ug/l	97
23) tert-Butyl Alcohol	4.79	59	39142	75.15	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	304302	17.76	ug/l	97
25) Chloroform	7.37	83	242016	19.33	ug/l	99
26) Cyclohexane	7.65	56	189603	18.24	ug/l	99
29) 1,1-Dichloropropene	7.80	75	176107	18.94	ug/l	99
30) 2-Butanone	6.84	43	221639	77.49	ug/l	99
31) 2,2-Dichloropropane	6.83	77	189684	20.97	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	204264	19.37	ug/l	100
33) Carbon Tetrachloride	7.78	117	180062	18.96	ug/l	96
34) Benzene	8.04	78	543774	18.91	ug/l	100
35) Methacrylonitrile	7.18	41	49715	15.87	ug/l	98
36) 1,2-Dichloroethane	8.13	62	162847	18.72	ug/l	100
37) Trichloroethene	8.84	130	141776	18.86	ug/l	99
38) Methylcyclohexane	9.08	83	183818	18.41	ug/l	98
39) 1,2-Dichloropropane	9.12	63	147400	19.62	ug/l	98
40) Dibromomethane	9.21	93	83936	18.55	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	180544	18.93	ug/l	98
42) Vinyl Acetate	5.90	43	1108363	84.13	ug/l	100
43) Ethyl Acetate	6.93	43	93297	15.92	ug/l	95
44) Isopropyl Acetate	8.17	43	173474	16.78	ug/l	99
45) 1,4-Dioxane	9.20	88	23854	310.59	ug/l	98
46) Methyl methacrylate	9.20	41	85338	16.48	ug/l	94
47) n-amyl Acetate	12.07	43	122576	14.75	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	168027	17.97	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	203265	18.92	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	121382	18.46	ug/l	97
51) Ethyl methacrylate	10.43	69	131772	16.38	ug/l	99
52) 1,3-Dichloropropane	10.71	76	198277	18.21	ug/l	99
53) Dibromochloromethane	10.90	129	136206	18.22	ug/l	99
54) 1,2-Dibromoethane	11.01	107	114602	17.63	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	273660	81.76	ug/l	99
56) Bromoform	12.13	173	92688	17.43	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	502681	81.33	ug/l	99
59) 2-Hexanone	10.75	43	309736	76.67	ug/l	99
61) Tetrachloroethene	10.63	164	132851	19.74	ug/l	96
62) Toluene	10.16	91	582016	19.31	ug/l	100
64) Chlorobenzene	11.43	112	356508	19.09	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	137047	19.43	ug/l	99
66) Ethyl Benzene	11.51	91	582208	18.65	ug/l	99
67) m/p-Xylenes	11.62	106	465462	38.75	ug/l	100
68) o-Xylene	11.95	106	224211	19.54	ug/l	98
69) Styrene	11.96	104	342171	18.75	ug/l	100
70) Isopropylbenzene	12.25	105	591872	19.41	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	146663	17.76	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	122361m	17.18	ug/l	
73) Bromobenzene	12.53	156	149811	18.67	ug/l	98
74) n-propylbenzene	12.59	91	654649	18.99	ug/l	100
75) 2-Chlorotoluene	12.67	91	406909	19.43	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	486043	19.50	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	32107	15.82	ug/l	98
78) 4-Chlorotoluene	12.77	91	385539	18.69	ug/l	100
79) tert-butylbenzene	12.99	119	416594	19.25	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	490008	19.72	ug/l	99
81) sec-Butylbenzene	13.17	105	552711	19.52	ug/l	100
82) p-Isopropyltoluene	13.29	119	466627	19.09	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	249233	18.37	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	230814	17.96	ug/l	99
85) n-Butylbenzene	13.62	91	322859	17.31	ug/l	98
86) Hexachloroethane	13.87	117	88802	18.93	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	244648	18.32	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18706	16.19	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	83876	14.11	ug/l	99
90) Hexachlorobutadiene	15.01	225	80377	19.90	ug/l	99
91) Naphthalene	15.13	128	149437	16.62	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	90162	15.12	ug/l	100

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

