

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051179.D
 Acq On : 14 Sep 2018 10:42
 Operator : MD\SY
 Sample : VN0914WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0914WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/17/2018 1:39:37 PM

Quant Time: Sep 14 15:28:24 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	104635	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	568307	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	485049	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	194101	29.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.90%
60) 4-Bromofluorobenzene	12.40	95	210639	29.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.33%
63) Toluene-d8	10.09	98	692301	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	97735	15.04	ug/l	100
3) Chloromethane	2.06	50	130232	16.97	ug/l	99
4) Vinyl Chloride	2.18	62	135394	17.86	ug/l	99
5) Bromomethane	2.57	94	73900	15.99	ug/l	98
6) Chloroethane	2.70	64	82904	18.54	ug/l	98
7) Trichlorofluoromethane	3.02	101	189771	18.88	ug/l	97
8) Diethyl Ether	3.41	74	64546	18.21	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	121430	19.51	ug/l	98
10) 1,1-Dichloroethene	3.74	96	106241	18.79	ug/l	98
11) Methyl Iodide	3.95	142	84363	15.99	ug/l	98
12) Methyl Acetate	4.33	43	92973	14.22	ug/l	99
13) Acrolein	3.61	56	28404	196.20	ug/l	97
14) Acrylonitrile	5.00	53	185894	84.10	ug/l	96
15) Acetone	3.82	58	45785	80.94	ug/l	95
16) Carbon Disulfide	4.05	76	305186	17.95	ug/l	99
17) Allyl chloride	4.32	41	159856	17.97	ug/l	96
18) Methylene Chloride	4.55	84	131715	19.85	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	118121	19.61	ug/l	96
20) Diisopropyl ether	5.96	45	360253	19.51	ug/l	99
21) 1,1-Dichloroethane	5.85	63	224135	19.80	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	135836	19.96	ug/l	98
23) tert-Butyl Alcohol	4.79	59	35657	75.85	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	283006	18.30	ug/l	99
25) Chloroform	7.37	83	228089	20.18	ug/l	97
26) Cyclohexane	7.65	56	172827	18.42	ug/l #	97
29) 1,1-Dichloropropene	7.79	75	164459	19.33	ug/l	98
30) 2-Butanone	6.84	43	197021	75.27	ug/l	100
31) 2,2-Dichloropropane	6.83	77	173093	20.91	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	194574	20.17	ug/l	99
33) Carbon Tetrachloride	7.78	117	171371	19.72	ug/l	96
34) Benzene	8.04	78	517611	19.67	ug/l	99
35) Methacrylonitrile	7.18	41	47822	16.68	ug/l	96
36) 1,2-Dichloroethane	8.13	62	153640	19.30	ug/l	100
37) Trichloroethene	8.84	130	134934	19.61	ug/l	100
38) Methylcyclohexane	9.08	83	168184	18.41	ug/l	99
39) 1,2-Dichloropropane	9.12	63	136501	19.86	ug/l	99
40) Dibromomethane	9.21	93	79705	19.25	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	171663	19.67	ug/l	98
42) Vinyl Acetate	5.90	43	1095248	90.85	ug/l	99
43) Ethyl Acetate	6.93	43	86508	16.13	ug/l	98
44) Isopropyl Acetate	8.17	43	160602	16.97	ug/l	97
45) 1,4-Dioxane	9.20	88	21885	311.38	ug/l	97
46) Methyl methacrylate	9.20	41	75275	15.89	ug/l	97
47) n-amyl Acetate	12.07	43	106120	13.95	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	155801	18.21	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	190332	19.36	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	117177	19.48	ug/l	99
51) Ethyl methacrylate	10.43	69	123375	16.76	ug/l	98
52) 1,3-Dichloropropane	10.71	76	188723	18.94	ug/l	100
53) Dibromochloromethane	10.90	129	131204	19.18	ug/l	99
54) 1,2-Dibromoethane	11.00	107	107907	18.14	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	233322	76.17	ug/l	99
56) Bromoform	12.13	173	84656	17.40	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	439609	79.21	ug/l	98
59) 2-Hexanone	10.75	43	265682	73.24	ug/l	99
61) Tetrachloroethene	10.63	164	124805	20.65	ug/l	97
62) Toluene	10.16	91	547964	20.25	ug/l	99
64) Chlorobenzene	11.44	112	336323	20.05	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	133933	21.15	ug/l	99
66) Ethyl Benzene	11.51	91	547233	19.52	ug/l	99
67) m/p-Xylenes	11.62	106	434016	40.24	ug/l	100
68) o-Xylene	11.95	106	209463	20.33	ug/l	98
69) Styrene	11.96	104	320291	19.55	ug/l	99
70) Isopropylbenzene	12.25	105	547824	20.01	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	134223	18.10	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	97037m	15.17	ug/l	
73) Bromobenzene	12.53	156	136973	19.01	ug/l	97
74) n-propylbenzene	12.59	91	584899	18.89	ug/l	98
75) 2-Chlorotoluene	12.67	91	371360	19.75	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	453875	20.28	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	27731	15.22	ug/l	96
78) 4-Chlorotoluene	12.77	91	348417	18.81	ug/l	98
79) tert-butylbenzene	12.99	119	384785	19.80	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	441853	19.80	ug/l	100
81) sec-Butylbenzene	13.17	105	496110	19.51	ug/l	100
82) p-Isopropyltoluene	13.29	119	419218	19.10	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	224178	18.40	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	202778	17.57	ug/l	97
85) n-Butylbenzene	13.62	91	280015	16.72	ug/l	99
86) Hexachloroethane	13.87	117	81747	19.40	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	224725	18.74	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15153	14.61	ug/l	87
89) 1,2,4-Trichlorobenzene	14.91	180	67227	12.60	ug/l	98
90) Hexachlorobutadiene	15.01	225	73464	20.26	ug/l	98
91) Naphthalene	15.13	128	117050	15.59	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	73723	13.76	ug/l	99

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

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