

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050998.D
 Acq On : 31 Aug 2018 19:45
 Operator : MD\SY
 Sample : VN0831WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0831WBS02

Manual Integrations
 APPROVED

MMDadoda
 9/4/2018 12:28:17 PM

Quant Time: Sep 01 01:55:03 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	116575	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	632642	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	542946	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	219538	29.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.37%
60) 4-Bromofluorobenzene	12.40	95	236451	29.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.63%
63) Toluene-d8	10.09	98	792195	31.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	145174	20.05	ug/l	97
3) Chloromethane	2.06	50	162596	19.02	ug/l	99
4) Vinyl Chloride	2.18	62	163508	19.36	ug/l	99
5) Bromomethane	2.57	94	95104	18.47	ug/l	99
6) Chloroethane	2.70	64	97211	19.51	ug/l	99
7) Trichlorofluoromethane	3.02	101	221956	19.82	ug/l	99
8) Diethyl Ether	3.41	74	73668	18.66	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	138601	19.99	ug/l	98
10) 1,1-Dichloroethene	3.74	96	120533	19.14	ug/l	97
11) Methyl Iodide	3.95	142	101367	17.25	ug/l	100
12) Methyl Acetate	4.33	43	139021	19.09	ug/l	98
13) Acrolein	3.61	56	7865	48.76	ug/l	93
14) Acrylonitrile	4.99	53	203756	82.74	ug/l	99
15) Acetone	3.82	58	48429	76.85	ug/l	99
16) Carbon Disulfide	4.05	76	339799	17.94	ug/l	99
17) Allyl chloride	4.33	41	180499	18.21	ug/l	97
18) Methylene Chloride	4.55	84	144815	19.59	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	129653	19.32	ug/l	98
20) Diisopropyl ether	5.96	45	403716	19.62	ug/l	99
21) 1,1-Dichloroethane	5.85	63	246909	19.57	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	144532	19.06	ug/l	98
23) tert-Butyl Alcohol	4.79	59	37414	71.44	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	313570	18.20	ug/l	98
25) Chloroform	7.37	83	252435	20.05	ug/l	98
26) Cyclohexane	7.65	56	194075	18.57	ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	181890	19.20	ug/l	98
30) 2-Butanone	6.84	43	215660	74.02	ug/l	100
31) 2,2-Dichloropropane	6.83	77	184268	19.99	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	210300	19.58	ug/l	98
33) Carbon Tetrachloride	7.78	117	186526	19.28	ug/l	96
34) Benzene	8.04	78	563681	19.24	ug/l	99
35) Methacrylonitrile	7.17	41	43673	13.68	ug/l	95
36) 1,2-Dichloroethane	8.13	62	171097	19.31	ug/l	100
37) Trichloroethene	8.84	130	148665	19.41	ug/l	98
38) Methylcyclohexane	9.08	83	184608	18.15	ug/l	99
39) 1,2-Dichloropropane	9.12	63	150935	19.72	ug/l	99
40) Dibromomethane	9.21	93	86417	18.75	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	187434	19.29	ug/l	99
42) Vinyl Acetate	5.90	43	1147964	85.54	ug/l	100
43) Ethyl Acetate	6.94	43	98373	16.48	ug/l	98
44) Isopropyl Acetate	8.17	43	181224	17.21	ug/l	98
45) 1,4-Dioxane	9.20	88	23926	305.81	ug/l	96
46) Methyl methacrylate	9.20	41	84931	16.10	ug/l	96
47) n-amyl Acetate	12.07	43	120807	14.27	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	169200	17.76	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	205170	18.75	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	126053	18.82	ug/l	99
51) Ethyl methacrylate	10.43	69	132391	16.16	ug/l	97
52) 1,3-Dichloropropane	10.71	76	204987	18.48	ug/l	99
53) Dibromochloromethane	10.90	129	140891	18.50	ug/l	98
54) 1,2-Dibromoethane	11.01	107	117839	17.79	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	268449	78.73	ug/l	99
56) Bromoform	12.13	173	91661	16.92	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	504760	81.25	ug/l	99
59) 2-Hexanone	10.75	43	305124	75.14	ug/l	99
61) Tetrachloroethene	10.63	164	135942	20.09	ug/l	98
62) Toluene	10.16	91	602135	19.88	ug/l	99
64) Chlorobenzene	11.44	112	366597	19.53	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	142728	20.14	ug/l	99
66) Ethyl Benzene	11.51	91	594495	18.95	ug/l	99
67) m/p-Xylenes	11.62	106	473070	39.19	ug/l	100
68) o-Xylene	11.95	106	225343	19.54	ug/l	99
69) Styrene	11.97	104	347741	18.96	ug/l	99
70) Isopropylbenzene	12.25	105	592283	19.32	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	150025	18.08	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	124830m	17.44	ug/l	
73) Bromobenzene	12.53	156	151628	18.80	ug/l	98
74) n-propylbenzene	12.59	91	653977	18.87	ug/l	100
75) 2-Chlorotoluene	12.68	91	406773	19.32	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	489507	19.54	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	31362	15.38	ug/l	99
78) 4-Chlorotoluene	12.77	91	392402	18.93	ug/l	99
79) tert-butylbenzene	12.99	119	426666	19.61	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	492457	19.72	ug/l	99
81) sec-Butylbenzene	13.17	105	545365	19.16	ug/l	100
82) p-Isopropyltoluene	13.29	119	462938	18.84	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	253056	18.56	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	230460	17.84	ug/l	98
85) n-Butylbenzene	13.62	91	323490	17.26	ug/l	99
86) Hexachloroethane	13.87	117	88061	18.67	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	251022	18.70	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18885	16.27	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	83949	14.05	ug/l	99
90) Hexachlorobutadiene	15.01	225	80241	19.77	ug/l	98
91) Naphthalene	15.13	128	153352	16.79	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	91352	15.24	ug/l	98

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

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