

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN051001.D
 Acq On : 31 Aug 2018 20:58
 Operator : MD\SY
 Sample : VN0831WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0831WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/4/2018 12:28:22 PM

Quant Time: Sep 01 02:12:52 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	114512	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	627353	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	549183	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	219012	29.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.90%
60) 4-Bromofluorobenzene	12.40	95	238817	29.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.47%
63) Toluene-d8	10.09	98	781065	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	140655	19.78	ug/l	99
3) Chloromethane	2.06	50	152967	18.22	ug/l	100
4) Vinyl Chloride	2.18	62	159359	19.21	ug/l	100
5) Bromomethane	2.57	94	70294	13.90	ug/l	98
6) Chloroethane	2.70	64	93647	19.14	ug/l	98
7) Trichlorofluoromethane	3.02	101	217566	19.78	ug/l	98
8) Diethyl Ether	3.41	74	72977	18.82	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	133766	19.64	ug/l	98
10) 1,1-Dichloroethene	3.74	96	118691	19.18	ug/l	99
11) Methyl Iodide	3.95	142	83363	14.44	ug/l	99
12) Methyl Acetate	4.33	43	140200	19.59	ug/l	96
13) Acrolein	3.61	56	7866	49.65	ug/l	95
14) Acrylonitrile	5.00	53	205307	84.87	ug/l	97
15) Acetone	3.82	58	50226	81.14	ug/l	98
16) Carbon Disulfide	4.05	76	344083	18.49	ug/l	100
17) Allyl chloride	4.32	41	177985	18.28	ug/l	98
18) Methylene Chloride	4.55	84	139226	19.17	ug/l	97
19) trans-1,2-Dichloroethene	5.05	96	124121	18.83	ug/l	95
20) Diisopropyl ether	5.96	45	393575	19.47	ug/l	99
21) 1,1-Dichloroethane	5.85	63	242812	19.60	ug/l	100
22) cis-1,2-Dichloroethene	6.84	96	143759	19.30	ug/l	99
23) tert-Butyl Alcohol	4.79	59	39569m	76.91	ug/l	
24) Methyl tert-Butyl Ether	5.05	73	307765	18.19	ug/l	98
25) Chloroform	7.37	83	244191	19.75	ug/l	100
26) Cyclohexane	7.66	56	191909	18.69	ug/l #	97
29) 1,1-Dichloropropene	7.80	75	175291	18.66	ug/l	98
30) 2-Butanone	6.84	43	215261	74.50	ug/l	100
31) 2,2-Dichloropropane	6.83	77	171131	18.73	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	204150	19.17	ug/l	100
33) Carbon Tetrachloride	7.78	117	180461	18.82	ug/l	97
34) Benzene	8.04	78	548731	18.89	ug/l	99
35) Methacrylonitrile	7.18	41	58179	18.38	ug/l	97
36) 1,2-Dichloroethane	8.13	62	165814	18.87	ug/l	100
37) Trichloroethene	8.84	130	147475	19.42	ug/l	96
38) Methylcyclohexane	9.08	83	180457	17.89	ug/l	99
39) 1,2-Dichloropropane	9.12	63	145776	19.21	ug/l	100
40) Dibromomethane	9.21	93	84117	18.40	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	181588	18.84	ug/l	100
42) Vinyl Acetate	5.90	43	1127536	84.72	ug/l	100
43) Ethyl Acetate	6.93	43	99839	16.87	ug/l	97
44) Isopropyl Acetate	8.17	43	186265	17.83	ug/l	99
45) 1,4-Dioxane	9.20	88	24065	310.18	ug/l	96
46) Methyl methacrylate	9.20	41	85520	16.35	ug/l	99
47) n-amyl Acetate	12.07	43	130878	15.59	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	165642	17.54	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	201441	18.57	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	126558	19.05	ug/l	99
51) Ethyl methacrylate	10.43	69	134090	16.50	ug/l	98
52) 1,3-Dichloropropane	10.71	76	201679	18.33	ug/l	99
53) Dibromochloromethane	10.90	129	138066	18.28	ug/l	99
54) 1,2-Dibromoethane	11.01	107	115897	17.65	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	281734	83.32	ug/l	100
56) Bromoform	12.13	173	91306	17.00	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	505085	80.38	ug/l	100
59) 2-Hexanone	10.75	43	307854	74.96	ug/l	99
61) Tetrachloroethene	10.63	164	136809	19.99	ug/l	99
62) Toluene	10.16	91	615422	20.09	ug/l	100
64) Chlorobenzene	11.43	112	364488	19.20	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	138902	19.37	ug/l	98
66) Ethyl Benzene	11.51	91	600435	18.92	ug/l	99
67) m/p-Xylenes	11.62	106	472123	38.66	ug/l	100
68) o-Xylene	11.95	106	224260	19.22	ug/l	99
69) Styrene	11.96	104	346063	18.66	ug/l	100
70) Isopropylbenzene	12.25	105	595660	19.21	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	149816	17.85	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	127671m	17.63	ug/l	
73) Bromobenzene	12.53	156	150824	18.49	ug/l	98
74) n-propylbenzene	12.59	91	664968	18.97	ug/l	99
75) 2-Chlorotoluene	12.67	91	413192	19.40	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	491135	19.38	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	30062	14.57	ug/l	95
78) 4-Chlorotoluene	12.77	91	393413	18.76	ug/l	99
79) tert-butylbenzene	12.99	119	419206	19.05	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	492298	19.49	ug/l	100
81) sec-Butylbenzene	13.17	105	554108	19.25	ug/l	99
82) p-Isopropyltoluene	13.29	119	485942	19.56	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	253491	18.38	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	235093	17.99	ug/l	98
85) n-Butylbenzene	13.62	91	343743	18.13	ug/l	99
86) Hexachloroethane	13.87	117	79211	16.61	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	254220	18.73	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	19048	16.22	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	93902	15.54	ug/l	99
90) Hexachlorobutadiene	15.01	225	87090	21.21	ug/l	98
91) Naphthalene	15.13	128	167709	17.46	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	99028	16.33	ug/l	99

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

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