

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050046.D
 Acq On : 25 Jul 2018 15:21
 Operator : MD\SY
 Sample : VN0725WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0725WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:30 PM

Quant Time: Jul 26 15:40:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	136270	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	734301	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	634676	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	285682	30.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.80%
60) 4-Bromofluorobenzene	12.40	95	286183	29.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.83%
63) Toluene-d8	10.09	98	920390	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	204924	21.82	ug/l	96
3) Chloromethane	2.06	50	194720	20.11	ug/l	99
4) Vinyl Chloride	2.18	62	209320	20.31	ug/l	97
5) Bromomethane	2.56	94	143649	22.86	ug/l	100
6) Chloroethane	2.70	64	122534	20.10	ug/l	99
7) Trichlorofluoromethane	3.01	101	272894	20.26	ug/l	99
8) Diethyl Ether	3.41	74	91805	20.32	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	169333	20.67	ug/l	99
10) 1,1-Dichloroethene	3.73	96	147849	20.35	ug/l	94
11) Methyl Iodide	3.95	142	178339	16.68	ug/l	99
12) Methyl Acetate	4.33	43	171180	20.57	ug/l	99
13) Acrolein	3.61	56	36534	71.03	ug/l	98
14) Acrylonitrile	5.00	53	274492	98.84	ug/l	98
15) Acetone	3.82	58	76983	104.30	ug/l	99
16) Carbon Disulfide	4.05	76	439480	19.77	ug/l	100
17) Allyl chloride	4.32	41	227611	19.84	ug/l	98
18) Methylene Chloride	4.55	84	170983	20.39	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	155200	19.95	ug/l	99
20) Diisopropyl ether	5.96	45	482070	20.49	ug/l	99
21) 1,1-Dichloroethane	5.85	63	293596	19.85	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	174375	20.21	ug/l	100
23) tert-Butyl Alcohol	4.79	59	64588	104.08	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	401143	20.25	ug/l	99
25) Chloroform	7.37	83	305164	20.38	ug/l	97
26) Cyclohexane	7.65	56	234501	19.95	ug/l	100
29) 1,1-Dichloropropene	7.79	75	223128	19.58	ug/l	99
30) 2-Butanone	6.84	43	351510	98.30	ug/l	99
31) 2,2-Dichloropropane	6.82	77	251546	19.97	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	257803	19.22	ug/l	99
33) Carbon Tetrachloride	7.77	117	227726	19.05	ug/l	99
34) Benzene	8.04	78	664930	19.21	ug/l	100
35) Methacrylonitrile	7.18	41	68881	16.92	ug/l	96
36) 1,2-Dichloroethane	8.13	62	217412	19.13	ug/l	99
37) Trichloroethene	8.84	130	177418	19.55	ug/l	95
38) Methylcyclohexane	9.08	83	228944	19.06	ug/l	99
39) 1,2-Dichloropropane	9.12	63	177284	19.45	ug/l	98
40) Dibromomethane	9.21	93	107738	19.12	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	226435	19.05	ug/l	100
42) Vinyl Acetate	5.90	43	1602271	95.22	ug/l	99
43) Ethyl Acetate	6.93	43	150979	20.22	ug/l #	91
44) Isopropyl Acetate	8.17	43	273854	19.80	ug/l	96
45) 1,4-Dioxane	9.20	88	33950	372.97	ug/l	96
46) Methyl methacrylate	9.20	41	127520	19.02	ug/l	98
47) n-amyl Acetate	12.07	43	191732	17.81	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	217676	19.21	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	255593	19.20	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	151919	18.78	ug/l	99
51) Ethyl methacrylate	10.43	69	178300	18.16	ug/l	99
52) 1,3-Dichloropropane	10.71	76	249307	18.77	ug/l	100
53) Dibromochloromethane	10.90	129	173546	18.91	ug/l	99
54) 1,2-Dibromoethane	11.01	107	151749	19.16	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	418330	94.15	ug/l	99
56) Bromoform	12.13	173	115370	17.80	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	745838	100.99	ug/l	100
59) 2-Hexanone	10.75	43	500101	99.26	ug/l	99
61) Tetrachloroethene	10.63	164	167683	19.51	ug/l	97
62) Toluene	10.16	91	715388	19.76	ug/l	99
64) Chlorobenzene	11.44	112	432778	19.71	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	164905	19.25	ug/l	99
66) Ethyl Benzene	11.51	91	719976	19.46	ug/l	98
67) m/p-Xylenes	11.62	106	567084	39.82	ug/l	99
68) o-Xylene	11.95	106	263881	19.48	ug/l	99
69) Styrene	11.97	104	416111	19.16	ug/l	99
70) Isopropylbenzene	12.25	105	709825	19.67	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	191396	19.32	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	154970m	18.31	ug/l	
73) Bromobenzene	12.53	156	182144	18.95	ug/l	97
74) n-propylbenzene	12.59	91	820470	19.52	ug/l	99
75) 2-Chlorotoluene	12.68	91	493400	19.55	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	592422	19.99	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	49168	17.77	ug/l	91
78) 4-Chlorotoluene	12.78	91	485458	19.41	ug/l	99
79) tert-butylbenzene	12.99	119	498210	19.66	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	601271	20.02	ug/l	100
81) sec-Butylbenzene	13.17	105	681076	19.79	ug/l	99
82) p-Isopropyltoluene	13.29	119	579093	19.72	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	313292	18.72	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	313932	19.85	ug/l	99
85) n-Butylbenzene	13.62	91	450750	18.91	ug/l	99
86) Hexachloroethane	13.88	117	109261	18.62	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	321903	19.67	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28638	18.55	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	156298	20.00	ug/l	99
90) Hexachlorobutadiene	15.01	225	104512	20.28	ug/l	97
91) Naphthalene	15.14	128	340265	21.53	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	146609	18.45	ug/l	99

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

