

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057673.D
 Acq On : 3 Sep 2019 19:42
 Operator : JC/SP
 Sample : VN0903WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0903WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:21:35 PM

Quant Time: Sep 04 03:21:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	58926	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	358654	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	302054	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	189449	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	12.40	95	144254	27.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.17%
63) Toluene-d8	10.09	98	450794	30.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	86285	20.325	ug/l 99
3) Chloromethane	2.05	50	92053	20.561	ug/l 99
4) Vinyl Chloride	2.18	62	73172	19.987	ug/l 97
5) Bromomethane	2.53	94	46891m	20.034	ug/l
6) Chloroethane	2.68	64	54336	20.325	ug/l 94
7) Trichlorofluoromethane	3.01	101	139032	19.828	ug/l 98
8) Diethyl Ether	3.40	74	47508	20.599	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	72299	19.841	ug/l 97
10) 1,1-Dichloroethene	3.73	96	69045	20.769	ug/l 97
11) Methyl Iodide	3.94	142	91313	19.836	ug/l 96
12) Methyl Acetate	4.31	43	104798	21.114	ug/l 97
13) Acrolein	3.60	56	26058	92.527	ug/l 100
14) Acrylonitrile	4.97	53	178926	99.050	ug/l 99
15) Acetone	3.81	58	44407	87.640	ug/l 97
16) Carbon Disulfide	4.04	76	156787	18.775	ug/l 98
17) Allyl chloride	4.31	41	132770	18.700	ug/l 99
18) Methylene Chloride	4.54	84	83614	20.072	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	68533	19.489	ug/l 98
20) Diisopropyl ether	5.93	45	304594	19.909	ug/l 99
21) 1,1-Dichloroethane	5.83	63	158677	20.122	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	86150	20.057	ug/l 99
23) tert-Butyl Alcohol	4.75	59	67504m	102.771	ug/l
24) Methyl tert-Butyl Ether	5.03	73	267036	20.216	ug/l 99
25) Chloroform	7.36	83	161051	19.702	ug/l 98
26) Cyclohexane	7.64	56	132573	19.743	ug/l # 96
29) 1,1-Dichloropropene	7.78	75	113709	19.854	ug/l 97
30) 2-Butanone	6.82	43	260776	96.388	ug/l # 98
31) 2,2-Dichloropropane	6.81	77	125466	17.701	ug/l 97
32) 1,1,1-Trichloroethane	7.56	97	140616	19.832	ug/l 97
33) Carbon Tetrachloride	7.76	117	112075	19.464	ug/l 99
34) Benzene	8.03	78	329931	20.055	ug/l 96
35) Methacrylonitrile	7.16	41	56565	22.823	ug/l 96
36) 1,2-Dichloroethane	8.11	62	144978	19.775	ug/l # 100
37) Trichloroethene	8.83	130	78793	20.170	ug/l 96
38) Methylcyclohexane	9.07	83	122471	19.271	ug/l 98
39) 1,2-Dichloropropane	9.11	63	89789	19.959	ug/l 91
40) Dibromomethane	9.20	93	58003	19.890	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	119858	19.016	ug/l	93
42) Vinyl Acetate	5.88	43	1238599	104.160	ug/l	100
43) Ethyl Acetate	6.91	43	114420	20.538	ug/l #	84
44) Isopropyl Acetate	8.15	43	204238	19.609	ug/l	98
45) 1,4-Dioxane	9.19	88	27634	413.306	ug/l #	93
46) Methyl methacrylate	9.19	41	98765	19.542	ug/l	98
47) n-amyl Acetate	12.07	43	146216	18.102	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	120535	18.231	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	133818	18.971	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	78752	20.023	ug/l	97
51) Ethyl methacrylate	10.43	69	120709	18.827	ug/l	97
52) 1,3-Dichloropropane	10.71	76	138582	19.796	ug/l	99
53) Dibromochloromethane	10.90	129	75954	18.503	ug/l	100
54) 1,2-Dibromoethane	11.00	107	76264	19.398	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	184502	91.077	ug/l	99
56) Bromoform	12.13	173	41821	16.430	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	582767	109.172	ug/l	98
59) 2-Hexanone	10.75	43	380421	100.709	ug/l	99
61) Tetrachloroethene	10.63	164	72739	20.972	ug/l	98
62) Toluene	10.15	91	354427	20.899	ug/l	99
64) Chlorobenzene	11.43	112	196292	19.711	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	73301	20.092	ug/l	97
66) Ethyl Benzene	11.51	91	389062	20.524	ug/l	98
67) m/p-Xylenes	11.62	106	262838	39.533	ug/l	100
68) o-Xylene	11.95	106	130494	19.712	ug/l	96
69) Styrene	11.96	104	197107	18.576	ug/l	99
70) Isopropylbenzene	12.25	105	368061	20.269	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	94430	19.765	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	100927m	22.462	ug/l	
73) Bromobenzene	12.53	156	74433	19.343	ug/l	95
74) n-propylbenzene	12.59	91	392106	19.507	ug/l	99
75) 2-Chlorotoluene	12.68	91	239515	19.033	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	305335	20.255	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	23921	17.440	ug/l	93
78) 4-Chlorotoluene	12.77	91	218096	18.241	ug/l	99
79) tert-butylbenzene	12.99	119	262570	20.281	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	281727	19.891	ug/l	97
81) sec-Butylbenzene	13.17	105	324613	19.457	ug/l	99
82) p-Isopropyltoluene	13.29	119	271451	19.156	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	101805	17.666	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	94190	17.313	ug/l	99
85) n-Butylbenzene	13.62	91	242647	19.481	ug/l	99
86) Hexachloroethane	13.88	117	46793	18.248	ug/l	96
87) 1,2-Dichlorobenzene	13.66	146	93581	17.601	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11146	15.913	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	22274	12.091	ug/l	95
90) Hexachlorobutadiene	15.01	225	38481	18.833	ug/l	97
91) Naphthalene	15.13	128	56137	11.733	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	20310	11.346	ug/l	99

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

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