

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056305.D
 Acq On : 14 Jun 2019 11:25
 Operator : JC/SP
 Sample : VN0614WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0614WBSD01

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:52 AM

Quant Time: Jun 14 11:50:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	58187	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	309531	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	274962	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	117544	32.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.43%
60) 4-Bromofluorobenzene	12.40	95	122386	30.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.10%
63) Toluene-d8	10.09	98	386871	31.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	70290	21.478	ug/l 99
3) Chloromethane	2.06	50	83322	21.791	ug/l 99
4) Vinyl Chloride	2.18	62	81244	20.839	ug/l 98
5) Bromomethane	2.54	94	36459m	14.881	ug/l
6) Chloroethane	2.69	64	47472	21.528	ug/l 96
7) Trichlorofluoromethane	3.01	101	103171	21.389	ug/l 96
8) Diethyl Ether	3.40	74	41240	20.159	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	63152	21.210	ug/l 97
10) 1,1-Dichloroethene	3.72	96	62829	20.685	ug/l 99
11) Methyl Iodide	3.94	142	39269	8.195	ug/l 98
12) Methyl Acetate	4.33	43	80928	22.173	ug/l 99
13) Acrolein	3.60	56	18778	105.554	ug/l 98
14) Acrylonitrile	4.99	53	175024	107.530	ug/l 98
15) Acetone	3.82	58	55023	103.243	ug/l 93
16) Carbon Disulfide	4.04	76	152510	21.103	ug/l 99
17) Allyl chloride	4.31	41	102622	21.806	ug/l 98
18) Methylene Chloride	4.54	84	74478	21.181	ug/l 94
19) trans-1,2-Dichloroethene	5.03	96	67153	20.713	ug/l 95
20) Diisopropyl ether	5.96	45	210059	21.544	ug/l 98
21) 1,1-Dichloroethane	5.85	63	122269	21.578	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	77718	20.538	ug/l 97
23) tert-Butyl Alcohol	4.81	59	51502	81.290	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	196869	20.338	ug/l 100
25) Chloroform	7.37	83	122350	21.623	ug/l 100
26) Cyclohexane	7.65	56	108921	20.719	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	89242	21.314	ug/l 99
30) 2-Butanone	6.84	43	235301	106.751	ug/l 98
31) 2,2-Dichloropropane	6.82	77	79476	20.405	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	100343	21.691	ug/l 99
33) Carbon Tetrachloride	7.77	117	84308	21.511	ug/l 98
34) Benzene	8.04	78	282238	21.156	ug/l 98
35) Methacrylonitrile	7.18	41	40809m	21.925	ug/l
36) 1,2-Dichloroethane	8.12	62	93425	22.358	ug/l 97
37) Trichloroethene	8.83	130	76662	20.536	ug/l 98
38) Methylcyclohexane	9.08	83	106746	20.110	ug/l 99
39) 1,2-Dichloropropane	9.12	63	75439	22.080	ug/l 95
40) Dibromomethane	9.21	93	50557	22.317	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	89860	22.152	ug/l	99
42) Vinyl Acetate	5.90	43	855906	108.917	ug/l	98
43) Ethyl Acetate	6.94	43	90611	21.479	ug/l	95
44) Isopropyl Acetate	8.17	43	133211	20.338	ug/l	98
45) 1,4-Dioxane	9.20	88	27473	392.098	ug/l	91
46) Methyl methacrylate	9.20	41	67206	20.654	ug/l	96
47) n-amyl Acetate	12.07	43	109135	20.148	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	86209	20.194	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	104128	20.830	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	70563	20.971	ug/l	97
51) Ethyl methacrylate	10.43	69	99151	19.477	ug/l	92
52) 1,3-Dichloropropane	10.71	76	115834	21.234	ug/l	98
53) Dibromochloromethane	10.90	129	71326	21.654	ug/l	98
54) 1,2-Dibromoethane	11.01	107	74523	21.224	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	156632	87.844	ug/l	99
56) Bromoform	12.13	173	49946	20.961	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	443953	106.627	ug/l	98
59) 2-Hexanone	10.75	43	320697	107.764	ug/l	98
61) Tetrachloroethene	10.63	164	73866	19.275	ug/l	99
62) Toluene	10.16	91	301199	20.292	ug/l	99
64) Chlorobenzene	11.43	112	185669	20.622	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	68023	20.952	ug/l	99
66) Ethyl Benzene	11.51	91	320706	20.285	ug/l	99
67) m/p-Xylenes	11.62	106	242990	40.154	ug/l	97
68) o-Xylene	11.95	106	119142	20.111	ug/l	98
69) Styrene	11.96	104	189293	19.666	ug/l	98
70) Isopropylbenzene	12.25	105	314164	20.297	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	101011	21.645	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	86662m	21.451	ug/l	
73) Bromobenzene	12.53	156	81744	19.896	ug/l	95
74) n-propylbenzene	12.59	91	326949	20.016	ug/l	99
75) 2-Chlorotoluene	12.67	91	207737	20.503	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	254582	19.995	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	19745	17.129	ug/l	95
78) 4-Chlorotoluene	12.77	91	185847	19.641	ug/l	99
79) tert-butylbenzene	12.99	119	224871	19.935	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	242858	19.608	ug/l	99
81) sec-Butylbenzene	13.17	105	287577	20.153	ug/l	99
82) p-Isopropyltoluene	13.29	119	247230	19.162	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	120492	18.819	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	109189	17.903	ug/l	99
85) n-Butylbenzene	13.61	91	166980	17.341	ug/l	98
86) Hexachloroethane	13.87	117	41680	20.723	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	120499	18.515	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14584	19.908	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	41743	17.698	ug/l	98
90) Hexachlorobutadiene	15.01	225	44925	18.909	ug/l	99
91) Naphthalene	15.13	128	114014	13.190	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	50513	14.827	ug/l	97

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

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