

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056027.D
 Acq On : 6 Jun 2019 00:43
 Operator : JC/SP
 Sample : VN0606WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0606WBSD01

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 9:04:42 AM

Quant Time: Jun 06 04:47:51 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	54410	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	286356	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	255765	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	100768	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	12.40	95	110769	29.22	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.40%
63) Toluene-d8	10.09	98	351571	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	65806	21.503	ug/l 99
3) Chloromethane	2.06	50	75706	21.173	ug/l 99
4) Vinyl Chloride	2.18	62	76149	20.888	ug/l 99
5) Bromomethane	2.54	94	48875	21.333	ug/l 99
6) Chloroethane	2.69	64	44510	21.586	ug/l 93
7) Trichlorofluoromethane	3.00	101	92285	20.460	ug/l 98
8) Diethyl Ether	3.40	74	39268	20.527	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	55525	19.943	ug/l 98
10) 1,1-Dichloroethene	3.72	96	58340	20.541	ug/l 98
11) Methyl Iodide	3.94	142	78076	17.424	ug/l 99
12) Methyl Acetate	4.33	43	69008	20.219	ug/l 99
13) Acrolein	3.60	56	17166	103.191	ug/l 100
14) Acrylonitrile	4.99	53	157333	103.371	ug/l 100
15) Acetone	3.82	58	43849	87.988	ug/l 99
16) Carbon Disulfide	4.04	76	130474	19.307	ug/l 98
17) Allyl chloride	4.31	41	87211	19.818	ug/l 98
18) Methylene Chloride	4.54	84	67713	20.594	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	62329	20.559	ug/l 95
20) Diisopropyl ether	5.96	45	186154	20.417	ug/l 98
21) 1,1-Dichloroethane	5.84	63	109937	20.748	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	73646	20.813	ug/l 97
23) tert-Butyl Alcohol	4.82	59	55124	93.047	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	187218	20.684	ug/l 100
25) Chloroform	7.37	83	108653	20.536	ug/l 100
26) Cyclohexane	7.65	56	99169	20.174	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	81567	21.058	ug/l 100
30) 2-Butanone	6.84	43	204067	100.073	ug/l 99
31) 2,2-Dichloropropane	6.82	77	60751	16.859	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	89627	20.943	ug/l 100
33) Carbon Tetrachloride	7.77	117	72850	20.092	ug/l 99
34) Benzene	8.04	78	262688	21.285	ug/l 98
35) Methacrylonitrile	7.18	41	38365	22.280	ug/l 99
36) 1,2-Dichloroethane	8.12	62	80596	20.849	ug/l 100
37) Trichloroethene	8.83	130	72279	20.929	ug/l 99
38) Methylcyclohexane	9.08	83	98454	20.049	ug/l 100
39) 1,2-Dichloropropane	9.12	63	66887	21.161	ug/l 98
40) Dibromomethane	9.21	93	43582	20.795	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	77095	20.543	ug/l	99
42) Vinyl Acetate	5.90	43	756594	104.071	ug/l	100
43) Ethyl Acetate	6.93	43	82071	21.030	ug/l	95
44) Isopropyl Acetate	8.17	43	123584	20.395	ug/l	98
45) 1,4-Dioxane	9.20	88	25868	399.070	ug/l #	87
46) Methyl methacrylate	9.20	41	62759	20.848	ug/l	97
47) n-amyl Acetate	12.07	43	99778	19.911	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	75460	19.107	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	89918	19.443	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	65914	21.175	ug/l	99
51) Ethyl methacrylate	10.43	69	95273	20.230	ug/l	98
52) 1,3-Dichloropropane	10.71	76	105759	20.957	ug/l	99
53) Dibromochloromethane	10.90	129	59952	19.674	ug/l	98
54) 1,2-Dibromoethane	11.00	107	67475	20.772	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	158209	95.909	ug/l	100
56) Bromoform	12.13	173	40920	18.562	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	403867	104.280	ug/l	100
59) 2-Hexanone	10.75	43	283046	102.251	ug/l	100
61) Tetrachloroethene	10.63	164	76769	21.536	ug/l	97
62) Toluene	10.16	91	285204	20.656	ug/l	99
64) Chlorobenzene	11.43	112	172169	20.558	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	61051	20.216	ug/l	98
66) Ethyl Benzene	11.51	91	303530	20.640	ug/l	100
67) m/p-Xylenes	11.62	106	231951	41.207	ug/l	98
68) o-Xylene	11.95	106	115625	20.982	ug/l	99
69) Styrene	11.96	104	182533	20.387	ug/l	99
70) Isopropylbenzene	12.25	105	303160	21.056	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	89766	20.679	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	72850m	19.386	ug/l	
73) Bromobenzene	12.53	156	78796	20.618	ug/l	99
74) n-propylbenzene	12.59	91	311210	20.482	ug/l	100
75) 2-Chlorotoluene	12.67	91	195598	20.754	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	243573	20.566	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	17311	16.144	ug/l	93
78) 4-Chlorotoluene	12.77	91	179644	20.410	ug/l	98
79) tert-butylbenzene	12.99	119	218442	20.819	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	238723	20.721	ug/l	99
81) sec-Butylbenzene	13.17	105	275932	20.788	ug/l	100
82) p-Isopropyltoluene	13.29	119	243844	20.319	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	118362	19.873	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	107875	19.015	ug/l	99
85) n-Butylbenzene	13.61	91	166046	18.538	ug/l	99
86) Hexachloroethane	13.87	117	35403	18.923	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	120404	19.889	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12695	18.631	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	45390	19.244	ug/l	97
90) Hexachlorobutadiene	15.01	225	43025	19.468	ug/l	99
91) Naphthalene	15.13	128	130392	16.218	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	54368	17.157	ug/l	99

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

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