

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101219\
 Data File : VN058690.D
 Acq On : 11 Oct 2019 10:03
 Operator : JC/SP
 Sample : VN1012WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/14/2019 4:59:25 PM

Quant Time: Oct 11 17:41:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	82260	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	449849	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	412781	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	213127	30.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.77%
60) 4-Bromofluorobenzene	12.40	95	214804	29.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.17%
63) Toluene-d8	10.09	98	592300	30.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	95608	21.451	ug/l 99
3) Chloromethane	2.04	50	123440	20.734	ug/l 99
4) Vinyl Chloride	2.17	62	122867	19.968	ug/l 99
5) Bromomethane	2.55	94	77664	20.443	ug/l 97
6) Chloroethane	2.68	64	80870	20.909	ug/l 96
7) Trichlorofluoromethane	3.00	101	163909	21.642	ug/l 99
8) Diethyl Ether	3.39	74	59434	20.576	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	93844	21.415	ug/l 99
10) 1,1-Dichloroethene	3.72	96	87797	20.399	ug/l 99
11) Methyl Iodide	3.93	142	122220	20.390	ug/l 97
12) Methyl Acetate	4.30	43	139552	20.266	ug/l 98
13) Acrolein	3.59	56	71129	93.485	ug/l 96
14) Acrylonitrile	4.96	53	278157	102.516	ug/l 100
15) Acetone	3.79	58	88503	109.886	ug/l 98
16) Carbon Disulfide	4.03	76	251726	20.052	ug/l 99
17) Allyl chloride	4.30	41	174389	20.357	ug/l 99
18) Methylene Chloride	4.53	84	105731	20.287	ug/l 97
19) trans-1,2-Dichloroethene	5.02	96	99354	21.204	ug/l 88
20) Diisopropyl ether	5.93	45	362460	20.767	ug/l 97
21) 1,1-Dichloroethane	5.82	63	205191	21.230	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	117422	21.019	ug/l 100
23) tert-Butyl Alcohol	4.76	59	111123	100.128	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	335412	20.889	ug/l 100
25) Chloroform	7.36	83	200892	20.841	ug/l 98
26) Cyclohexane	7.64	56	171815	20.254	ug/l # 98
29) 1,1-Dichloropropene	7.78	75	149804	21.155	ug/l 100
30) 2-Butanone	6.81	43	423007	105.709	ug/l 99
31) 2,2-Dichloropropane	6.81	77	182001	21.806	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	176832	21.591	ug/l 99
33) Carbon Tetrachloride	7.75	117	151884	21.425	ug/l 97
34) Benzene	8.02	78	440925	21.150	ug/l 98
35) Methacrylonitrile	7.16	41	77861m	22.026	ug/l
36) 1,2-Dichloroethane	8.11	62	173550	21.773	ug/l 98
37) Trichloroethene	8.82	130	109998	21.477	ug/l 99
38) Methylcyclohexane	9.07	83	167799	20.438	ug/l 99
39) 1,2-Dichloropropane	9.11	63	121903	21.397	ug/l 99
40) Dibromomethane	9.20	93	77065	21.427	ug/l 99

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

41) Bromodichloromethane	9.39	83	158060	21.512	ug/l	99
42) Vinyl Acetate	5.87	43	1538993	109.814	ug/l	99
43) Ethyl Acetate	6.91	43	163320	20.794	ug/l	98
44) Isopropyl Acetate	8.15	43	268088	21.072	ug/l #	88
45) 1,4-Dioxane	9.19	88	39802	407.429	ug/l	98
46) Methyl methacrylate	9.19	41	120843	20.690	ug/l	96
47) n-amyl Acetate	12.07	43	227839	20.202	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	179738	21.093	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	188421	21.057	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	110474	21.517	ug/l	98
51) Ethyl methacrylate	10.43	69	167682	20.424	ug/l	99
52) 1,3-Dichloropropane	10.71	76	192506	21.053	ug/l	99
53) Dibromochloromethane	10.90	129	116017	21.055	ug/l	99
54) 1,2-Dibromoethane	11.00	107	111825	21.013	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	443227	108.532	ug/l	100
56) Bromoform	12.13	173	79196	20.632	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	836255	111.053	ug/l	100
59) 2-Hexanone	10.75	43	641832	108.721	ug/l	100
61) Tetrachloroethene	10.63	164	93589	20.981	ug/l	98
62) Toluene	10.15	91	476187	21.446	ug/l	99
64) Chlorobenzene	11.43	112	287057	21.146	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	108353	21.287	ug/l	97
66) Ethyl Benzene	11.51	91	520670	21.177	ug/l	100
67) m/p-Xylenes	11.62	106	383262	41.725	ug/l	97
68) o-Xylene	11.95	106	186571	20.952	ug/l	100
69) Styrene	11.97	104	302835	20.586	ug/l	99
70) Isopropylbenzene	12.25	105	504800	20.997	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	169670	20.964	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	152435m	20.785	ug/l	
73) Bromobenzene	12.53	156	120874	20.699	ug/l	99
74) n-propylbenzene	12.59	91	599397	21.300	ug/l	100
75) 2-Chlorotoluene	12.68	91	353873	20.901	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	434347	21.094	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	56813	20.335	ug/l	95
78) 4-Chlorotoluene	12.78	91	363858	20.851	ug/l	97
79) tert-butylbenzene	13.00	119	366200	20.816	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	436539	21.335	ug/l	99
81) sec-Butylbenzene	13.18	105	491944	20.779	ug/l	100
82) p-Isopropyltoluene	13.29	119	444000	20.884	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	217898	20.621	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	212954	20.177	ug/l	99
85) n-Butylbenzene	13.62	91	396331	20.362	ug/l	100
86) Hexachloroethane	13.88	117	78827	20.374	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	218411	20.938	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	37482	20.807	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	129193	19.614	ug/l	99
90) Hexachlorobutadiene	15.02	225	69800	20.522	ug/l	99
91) Naphthalene	15.13	128	380322	19.556	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	123360	19.239	ug/l	99

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

