

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058683.D
 Acq On : 10 Oct 2019 22:36
 Operator : JC/SP
 Sample : VN1011WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1011WBSD01

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 2:47:06 PM

Quant Time: Oct 11 09:03:00 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	67802	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	382169	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	349242	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	176141	30.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.03%
60) 4-Bromofluorobenzene	12.40	95	183642	30.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.20%
63) Toluene-d8	10.09	98	494053	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	80012	21.780	ug/l 98
3) Chloromethane	2.04	50	100570	20.495	ug/l 99
4) Vinyl Chloride	2.17	62	109477	21.586	ug/l 97
5) Bromomethane	2.50	94	47459m	15.156	ug/l
6) Chloroethane	2.65	64	65653	20.594	ug/l 100
7) Trichlorofluoromethane	2.98	101	132403	21.210	ug/l 99
8) Diethyl Ether	3.39	74	49688	20.870	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.73	101	74304	20.571	ug/l 99
10) 1,1-Dichloroethene	3.71	96	73112	20.609	ug/l 94
11) Methyl Iodide	3.92	142	103618	20.973	ug/l 97
12) Methyl Acetate	4.30	43	115579	20.363	ug/l 100
13) Acrolein	3.58	56	58127	92.687	ug/l 98
14) Acrylonitrile	4.96	53	223622	99.991	ug/l 97
15) Acetone	3.80	58	53888	81.175	ug/l 99
16) Carbon Disulfide	4.02	76	205589	19.869	ug/l 100
17) Allyl chloride	4.29	41	138855	19.665	ug/l 96
18) Methylene Chloride	4.52	84	92060	21.430	ug/l 98
19) trans-1,2-Dichloroethene	5.01	96	79075	20.475	ug/l 92
20) Diisopropyl ether	5.93	45	300519	20.890	ug/l 93
21) 1,1-Dichloroethane	5.82	63	167945	21.082	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	95310	20.698	ug/l 99
23) tert-Butyl Alcohol	4.77	59	68162	74.514	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	274377	20.732	ug/l 100
25) Chloroform	7.35	83	166746	20.987	ug/l 97
26) Cyclohexane	7.63	56	142410	20.367	ug/l # 97
29) 1,1-Dichloropropene	7.77	75	121765	20.240	ug/l 99
30) 2-Butanone	6.82	43	294567	86.648	ug/l 100
31) 2,2-Dichloropropane	6.80	77	126100	17.784	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	143073	20.563	ug/l 100
33) Carbon Tetrachloride	7.75	117	123321	20.476	ug/l 99
34) Benzene	8.02	78	365551	20.640	ug/l 100
35) Methacrylonitrile	7.16	41	60358m	20.098	ug/l
36) 1,2-Dichloroethane	8.11	62	140790	20.791	ug/l 99
37) Trichloroethene	8.82	130	88499	20.340	ug/l 100
38) Methylcyclohexane	9.07	83	134801	19.326	ug/l 99
39) 1,2-Dichloropropane	9.11	63	99316	20.519	ug/l 98
40) Dibromomethane	9.20	93	62197	20.356	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	124681	19.974	ug/l	99
42) Vinyl Acetate	5.87	43	1217939	102.296	ug/l	100
43) Ethyl Acetate	6.91	43	126098	18.898	ug/l	98
44) Isopropyl Acetate	8.15	43	211379	19.557	ug/l #	88
45) 1,4-Dioxane	9.19	88	21240	255.925	ug/l	99
46) Methyl methacrylate	9.19	41	96391	19.426	ug/l	97
47) n-amyl Acetate	12.07	43	193370	20.182	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	140827	19.453	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	148902	19.587	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	90375	20.719	ug/l	99
51) Ethyl methacrylate	10.43	69	136138	19.519	ug/l	100
52) 1,3-Dichloropropane	10.71	76	159383	20.518	ug/l	99
53) Dibromochloromethane	10.90	129	92105	19.676	ug/l	97
54) 1,2-Dibromoethane	11.00	107	91857	20.317	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	358652	103.375	ug/l	100
56) Bromoform	12.13	173	61838	18.963	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	659154	103.460	ug/l	100
59) 2-Hexanone	10.75	43	490301	98.163	ug/l	100
61) Tetrachloroethene	10.63	164	80444	21.316	ug/l	98
62) Toluene	10.15	91	386780	20.589	ug/l	99
64) Chlorobenzene	11.43	112	234492	20.417	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	87080	20.220	ug/l	99
66) Ethyl Benzene	11.51	91	427900	20.571	ug/l	99
67) m/p-Xylenes	11.62	106	316961	40.785	ug/l	99
68) o-Xylene	11.95	106	153334	20.352	ug/l	100
69) Styrene	11.97	104	248922	19.999	ug/l	99
70) Isopropylbenzene	12.25	105	415846	20.444	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	139338	20.348	ug/l	97
72) 1,2,3-Trichloropropane	12.56	75	125873m	20.286	ug/l	
73) Bromobenzene	12.53	156	99220	20.082	ug/l	96
74) n-propylbenzene	12.59	91	490324	20.594	ug/l	99
75) 2-Chlorotoluene	12.68	91	298234	20.819	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	362412	20.802	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	40852	17.282	ug/l	93
78) 4-Chlorotoluene	12.78	91	306789	20.779	ug/l	100
79) tert-butylbenzene	13.00	119	301457	20.254	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	363697	21.009	ug/l	99
81) sec-Butylbenzene	13.18	105	411693	20.553	ug/l	100
82) p-Isopropyltoluene	13.29	119	369855	20.562	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	185339	20.731	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	184110	20.617	ug/l	98
85) n-Butylbenzene	13.62	91	331015	20.100	ug/l	100
86) Hexachloroethane	13.88	117	64384	19.668	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	187094	21.198	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	29418	19.301	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	105306	18.896	ug/l	99
90) Hexachlorobutadiene	15.02	225	56406	19.601	ug/l	100
91) Naphthalene	15.13	128	312450	18.989	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	102460	18.887	ug/l	99

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

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