

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058011.D
 Acq On : 13 Sep 2019 12:24
 Operator : JC/SP
 Sample : VN0914WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0914WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 2:49:30 PM

Quant Time: Sep 14 02:09:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	73867	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	430714	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	383202	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	200444	30.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.27%
60) 4-Bromofluorobenzene	12.41	95	193855	29.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.53%
63) Toluene-d8	10.09	98	557302	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	93872	21.034	ug/l 98
3) Chloromethane	2.04	50	104257	18.735	ug/l 96
4) Vinyl Chloride	2.17	62	102174	17.945	ug/l 97
5) Bromomethane	2.55	94	59415	16.721	ug/l 90
6) Chloroethane	2.69	64	64077	18.109	ug/l 99
7) Trichlorofluoromethane	3.00	101	125127	19.022	ug/l 96
8) Diethyl Ether	3.39	74	54543	20.554	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	84457	20.562	ug/l 98
10) 1,1-Dichloroethene	3.72	96	78192	20.019	ug/l 94
11) Methyl Iodide	3.93	142	90639	17.345	ug/l 96
12) Methyl Acetate	4.30	43	110789	20.669	ug/l 99
13) Acrolein	3.58	56	2091m	7.190	ug/l
14) Acrylonitrile	4.96	53	218170	99.844	ug/l # 89
15) Acetone	3.80	58	56700	91.400	ug/l 99
16) Carbon Disulfide	4.03	76	153385	16.864	ug/l 99
17) Allyl chloride	4.30	41	142816	19.954	ug/l 93
18) Methylene Chloride	4.53	84	99926	20.302	ug/l 99
19) trans-1,2-Dichloroethene	5.02	96	86103	19.779	ug/l 97
20) Diisopropyl ether	5.93	45	333180	19.913	ug/l 98
21) 1,1-Dichloroethane	5.83	63	189071	20.493	ug/l 97
22) cis-1,2-Dichloroethene	6.81	96	109828	20.591	ug/l 98
23) tert-Butyl Alcohol	4.75	59	73157m	102.554	ug/l
24) Methyl tert-Butyl Ether	5.02	73	299927	20.034	ug/l # 100
25) Chloroform	7.36	83	190825	20.316	ug/l 99
26) Cyclohexane	7.64	56	152339	19.652	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	140110	20.678	ug/l 99
30) 2-Butanone	6.82	43	316248	103.514	ug/l 99
31) 2,2-Dichloropropane	6.81	77	135690	18.968	ug/l 99
32) 1,1,1-Trichloroethane	7.56	97	152136	19.970	ug/l 98
33) Carbon Tetrachloride	7.76	117	121000	19.470	ug/l 95
34) Benzene	8.03	78	415037	20.672	ug/l 96
35) Methacrylonitrile	7.16	41	68659	24.229	ug/l 92
36) 1,2-Dichloroethane	8.11	62	164929	21.169	ug/l 99
37) Trichloroethene	8.83	130	98021	20.102	ug/l 97
38) Methylcyclohexane	9.07	83	151676	19.659	ug/l 99
39) 1,2-Dichloropropane	9.11	63	114571	20.320	ug/l 96
40) Dibromomethane	9.20	93	71214	20.766	ug/l 97

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

41) Bromodichloromethane	9.40	83	136218	19.703	ug/l	91
42) Vinyl Acetate	5.87	43	1302924	106.110	ug/l	100
43) Ethyl Acetate	6.91	43	125304	20.102	ug/l #	79
44) Isopropyl Acetate	8.15	43	228869	21.059	ug/l #	93
45) 1,4-Dioxane	9.19	88	34644	405.669	ug/l	99
46) Methyl methacrylate	9.19	41	109127	20.556	ug/l	96
47) n-amyl Acetate	12.07	43	182217	18.252	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	135028	18.345	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	154810	18.746	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	100389	20.182	ug/l	96
51) Ethyl methacrylate	10.43	69	147528	19.128	ug/l	93
52) 1,3-Dichloropropane	10.71	76	180400	20.738	ug/l	99
53) Dibromochloromethane	10.90	129	89659	18.251	ug/l	99
54) 1,2-Dibromoethane	11.00	107	97026	19.605	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	329882	90.011	ug/l	98
56) Bromoform	12.13	173	52622	17.291	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	669839	112.718	ug/l	100
59) 2-Hexanone	10.75	43	464499	104.160	ug/l	99
61) Tetrachloroethene	10.63	164	80859	20.754	ug/l	98
62) Toluene	10.15	91	442298	20.845	ug/l	99
64) Chlorobenzene	11.44	112	267527	20.325	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	92770	20.299	ug/l	97
66) Ethyl Benzene	11.51	91	489685	21.146	ug/l	99
67) m/p-Xylenes	11.62	106	352919	39.929	ug/l	98
68) o-Xylene	11.95	106	172871	19.964	ug/l	99
69) Styrene	11.97	104	291687	19.757	ug/l	99
70) Isopropylbenzene	12.25	105	476327	20.808	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	145763	20.374	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	131795m	20.755	ug/l	
73) Bromobenzene	12.53	156	110111	20.091	ug/l	98
74) n-propylbenzene	12.60	91	557235	21.306	ug/l	100
75) 2-Chlorotoluene	12.68	91	328868	20.188	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	405798	20.817	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	31167	16.544	ug/l	99
78) 4-Chlorotoluene	12.78	91	330068	19.863	ug/l	100
79) tert-butylbenzene	13.00	119	344509	20.258	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	393488	20.259	ug/l	98
81) sec-Butylbenzene	13.18	105	462005	20.476	ug/l	100
82) p-Isopropyltoluene	13.29	119	408949	20.238	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	194871	19.130	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	196679	19.610	ug/l	98
85) n-Butylbenzene	13.62	91	364688	19.365	ug/l	99
86) Hexachloroethane	13.88	117	53509	16.625	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	199458	20.171	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.28	75	22283	17.690	ug/l	94
89) 1,2,4-Trichlorobenzene	14.92	180	114618	18.975	ug/l	99
90) Hexachlorobutadiene	15.01	225	54465	19.633	ug/l	98
91) Naphthalene	15.13	128	316909	19.067	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	109865	19.071	ug/l	99

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

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