

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092019\
 Data File : VN058237.D
 Acq On : 20 Sep 2019 10:14
 Operator : JC/SP
 Sample : VN0920WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/23/2019 3:29:38 PM

Quant Time: Sep 21 07:16:55 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	74996	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	434628	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	389566	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	201564	30.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.27%
60) 4-Bromofluorobenzene	12.40	95	197683	29.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.83%
63) Toluene-d8	10.09	98	559570	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	89531	19.759	ug/l 98
3) Chloromethane	2.04	50	95990	16.989	ug/l 96
4) Vinyl Chloride	2.17	62	97461	16.860	ug/l 100
5) Bromomethane	2.55	94	48037	13.315	ug/l 97
6) Chloroethane	2.69	64	60947	16.965	ug/l 93
7) Trichlorofluoromethane	3.00	101	122191	18.296	ug/l 98
8) Diethyl Ether	3.39	74	54413	20.196	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	85810	20.577	ug/l 98
10) 1,1-Dichloroethene	3.72	96	76379	19.261	ug/l 97
11) Methyl Iodide	3.93	142	76961	14.506	ug/l 100
12) Methyl Acetate	4.30	43	107520	19.757	ug/l 95
13) Acrolein	3.59	56	26030	88.156	ug/l 96
14) Acrylonitrile	4.96	53	217743	98.148	ug/l # 90
15) Acetone	3.79	58	63888	101.436	ug/l 97
16) Carbon Disulfide	4.03	76	163355	17.690	ug/l 98
17) Allyl chloride	4.30	41	141851	19.521	ug/l 95
18) Methylene Chloride	4.53	84	97322	19.475	ug/l 93
19) trans-1,2-Dichloroethene	5.02	96	85640	19.377	ug/l 98
20) Diisopropyl ether	5.93	45	327663	19.288	ug/l 99
21) 1,1-Dichloroethane	5.82	63	183319	19.571	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	107076	19.773	ug/l 99
23) tert-Butyl Alcohol	4.75	59	68155	94.104	ug/l # 100
24) Methyl tert-Butyl Ether	5.01	73	297696	19.586	ug/l # 100
25) Chloroform	7.36	83	189325	19.853	ug/l 99
26) Cyclohexane	7.64	56	151576	19.259	ug/l 99
29) 1,1-Dichloropropene	7.78	75	133529	19.530	ug/l 99
30) 2-Butanone	6.81	43	318368	103.269	ug/l 99
31) 2,2-Dichloropropane	6.81	77	144400	20.004	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	154823	20.140	ug/l 99
33) Carbon Tetrachloride	7.76	117	124343	19.828	ug/l 99
34) Benzene	8.03	78	401214	19.804	ug/l 97
35) Methacrylonitrile	7.15	41	45413m	15.882	ug/l
36) 1,2-Dichloroethane	8.11	62	157451	20.028	ug/l 99
37) Trichloroethene	8.82	130	99142	20.148	ug/l 100
38) Methylcyclohexane	9.07	83	153013	19.654	ug/l 99
39) 1,2-Dichloropropane	9.11	63	116309	20.443	ug/l 96
40) Dibromomethane	9.20	93	69872	20.192	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	136268	19.533	ug/l	94
42) Vinyl Acetate	5.87	43	1307078	105.490	ug/l	99
43) Ethyl Acetate	6.91	43	132605m	21.082	ug/l	
44) Isopropyl Acetate	8.15	43	213042	19.426	ug/l	# 92
45) 1,4-Dioxane	9.19	88	31956	370.824	ug/l	94
46) Methyl methacrylate	9.19	41	103002	19.227	ug/l	98
47) n-amyl Acetate	12.07	43	180266	17.894	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	137999	18.580	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	158783	19.054	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	102164	20.354	ug/l	99
51) Ethyl methacrylate	10.43	69	147909	19.004	ug/l	97
52) 1,3-Dichloropropane	10.70	76	176554	20.113	ug/l	98
53) Dibromochloromethane	10.90	129	91668	18.492	ug/l	99
54) 1,2-Dibromoethane	11.00	107	96021	19.227	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	332729	89.970	ug/l	98
56) Bromoform	12.13	173	56532	18.409	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	646129	106.952	ug/l	99
59) 2-Hexanone	10.75	43	468685	103.382	ug/l	99
61) Tetrachloroethene	10.63	164	79077	19.965	ug/l	99
62) Toluene	10.15	91	442627	20.520	ug/l	99
64) Chlorobenzene	11.43	112	264547	19.770	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	95345	20.522	ug/l	96
66) Ethyl Benzene	11.51	91	489724	20.802	ug/l	100
67) m/p-Xylenes	11.62	106	361532	40.235	ug/l	100
68) o-Xylene	11.95	106	173317	19.689	ug/l	99
69) Styrene	11.97	104	292167	19.467	ug/l	99
70) Isopropylbenzene	12.25	105	481879	20.706	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	147168	20.234	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	131487m	20.368	ug/l	
73) Bromobenzene	12.53	156	110203	19.780	ug/l	99
74) n-propylbenzene	12.59	91	559841	21.056	ug/l	100
75) 2-Chlorotoluene	12.68	91	330460	19.954	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	408125	20.595	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	33794	17.646	ug/l	99
78) 4-Chlorotoluene	12.78	91	336971	19.948	ug/l	99
79) tert-butylbenzene	13.00	119	349647	20.225	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	400372	20.277	ug/l	99
81) sec-Butylbenzene	13.17	105	471377	20.550	ug/l	99
82) p-Isopropyltoluene	13.29	119	418488	20.372	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	202074	19.513	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	197170	19.338	ug/l	98
85) n-Butylbenzene	13.62	91	376361	19.659	ug/l	98
86) Hexachloroethane	13.88	117	58941	18.014	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	201506	20.045	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	24534	19.158	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	116442	18.962	ug/l	98
90) Hexachlorobutadiene	15.01	225	61183	21.694	ug/l	97
91) Naphthalene	15.13	128	305124	18.058	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	108606	18.545	ug/l	97

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

