

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058561.D
 Acq On : 7 Oct 2019 12:56
 Operator : JC/SP
 Sample : VN1007WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1007WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 10:50:20 AM

Quant Time: Oct 08 14:51:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:36:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	80778	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	464273	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	418332	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	213701	29.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.77%
60) 4-Bromofluorobenzene	12.41	95	215342	29.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.17%
63) Toluene-d8	10.09	98	595292	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	99195	20.420 ug/l	98
3) Chloromethane	2.04	50	135965	24.241 ug/l	100
4) Vinyl Chloride	2.17	62	121070	21.632 ug/l	98
5) Bromomethane	2.54	94	59529	19.588 ug/l	98
6) Chloroethane	2.68	64	75361	22.784 ug/l	93
7) Trichlorofluoromethane	3.00	101	151097	22.929 ug/l	99
8) Diethyl Ether	3.39	74	58883	20.100 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	92027	20.287 ug/l	99
10) 1,1-Dichloroethene	3.71	96	87799	19.799 ug/l	94
11) Methyl Iodide	3.93	142	76958	16.926 ug/l	97
12) Methyl Acetate	4.30	43	118588	20.079 ug/l	100
13) Acrolein	3.58	56	35928	213.927 ug/l	98
14) Acrylonitrile	4.96	53	239121	98.053 ug/l	99
15) Acetone	3.79	58	73463	108.643 ug/l	97
16) Carbon Disulfide	4.03	76	245300	19.905 ug/l	100
17) Allyl chloride	4.30	41	171113	20.658 ug/l	99
18) Methylene Chloride	4.53	84	107701	20.588 ug/l	94
19) trans-1,2-Dichloroethene	5.01	96	97349	19.581 ug/l	97
20) Diisopropyl ether	5.93	45	360721	20.438 ug/l	97
21) 1,1-Dichloroethane	5.82	63	205342	20.791 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	116116	20.108 ug/l	99
23) tert-Butyl Alcohol	4.76	59	82297	91.414 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	326379	20.504 ug/l #	78
25) Chloroform	7.36	83	201321	20.131 ug/l	99
26) Cyclohexane	7.63	56	172204	18.655 ug/l	99
29) 1,1-Dichloropropene	7.78	75	149677	19.750 ug/l	98
30) 2-Butanone	6.82	43	335415	97.474 ug/l	99
31) 2,2-Dichloropropane	6.80	77	183466	23.515 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	176525	21.596 ug/l	99
33) Carbon Tetrachloride	7.76	117	146635	21.115 ug/l	96
34) Benzene	8.03	78	441117	20.519 ug/l	99
35) Methacrylonitrile	7.16	41	65249	22.046 ug/l	93
36) 1,2-Dichloroethane	8.11	62	168946	20.061 ug/l	99
37) Trichloroethene	8.82	130	107807	20.031 ug/l	97
38) Methylcyclohexane	9.07	83	168205	18.355 ug/l	99
39) 1,2-Dichloropropane	9.11	63	119578	20.392 ug/l	95
40) Dibromomethane	9.20	93	74789	20.207 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	153714	21.012	ug/l	96
42) Vinyl Acetate	5.87	43	1474467	112.224	ug/l	99
43) Ethyl Acetate	6.91	43	139079	20.356	ug/l	100
44) Isopropyl Acetate	8.15	43	239485	19.581	ug/l	97
45) 1,4-Dioxane	9.19	88	34389	333.293	ug/l	95
46) Methyl methacrylate	9.19	41	109585	18.906	ug/l	94
47) n-amyl Acetate	12.07	43	207545	19.495	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	172352	21.562	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	186633	20.970	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	106946	20.676	ug/l	97
51) Ethyl methacrylate	10.43	69	154933	18.932	ug/l	98
52) 1,3-Dichloropropane	10.71	76	186381	20.289	ug/l	98
53) Dibromochloromethane	10.90	129	107321	20.653	ug/l	99
54) 1,2-Dibromoethane	11.00	107	104431	19.784	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	373929	107.908	ug/l	100
56) Bromoform	12.13	173	68109	20.780	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	687616	104.903	ug/l	100
59) 2-Hexanone	10.75	43	495410	99.975	ug/l	100
61) Tetrachloroethene	10.63	164	94581	21.581	ug/l	98
62) Toluene	10.15	91	475610	20.759	ug/l	100
64) Chlorobenzene	11.44	112	281385	19.986	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	104179	21.107	ug/l	99
66) Ethyl Benzene	11.51	91	524333	20.988	ug/l	99
67) m/p-Xylenes	11.62	106	379928	39.612	ug/l	99
68) o-Xylene	11.95	106	184514	19.784	ug/l	99
69) Styrene	11.97	104	293314	18.807	ug/l	99
70) Isopropylbenzene	12.25	105	499172	20.654	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	152692	19.878	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	137135m	20.759	ug/l	
73) Bromobenzene	12.53	156	117204	20.021	ug/l	97
74) n-propylbenzene	12.60	91	594837	21.349	ug/l	99
75) 2-Chlorotoluene	12.68	91	349913	20.076	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	425128	20.428	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	42669	19.801	ug/l	92
78) 4-Chlorotoluene	12.78	91	355560	19.905	ug/l	100
79) tert-butylbenzene	13.00	119	350506	19.453	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	420119	20.225	ug/l	98
81) sec-Butylbenzene	13.18	105	476551	20.165	ug/l	100
82) p-Isopropyltoluene	13.30	119	425125	19.976	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	209648	19.411	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	205268	19.096	ug/l	99
85) n-Butylbenzene	13.62	91	385314	19.487	ug/l	100
86) Hexachloroethane	13.88	117	69860	20.323	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	204991	19.437	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	28730	19.163	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	117115	16.998	ug/l	98
90) Hexachlorobutadiene	15.02	225	57463	17.236	ug/l	98
91) Naphthalene	15.13	128	328510	17.362	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	113238	17.112	ug/l	98

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

