

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052711.D
 Acq On : 6 Dec 2018 21:45
 Operator : MD\SY
 Sample : VN1206WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1206WBS02

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 1:13:06 PM

Quant Time: Dec 07 07:30:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	154856	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	889962	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	776819	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	314908	29.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.47%
60) 4-Bromofluorobenzene	12.40	95	355035	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	10.09	98	1078185	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	168006	19.049	ug/l 100
3) Chloromethane	2.06	50	223409	19.100	ug/l 100
4) Vinyl Chloride	2.19	62	228440	19.351	ug/l 96
5) Bromomethane	2.58	94	138239	20.537	ug/l 98
6) Chloroethane	2.71	64	137913	19.644	ug/l 99
7) Trichlorofluoromethane	3.02	101	294582	20.219	ug/l 100
8) Diethyl Ether	3.41	74	110602	20.559	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	182358	19.744	ug/l 96
10) 1,1-Dichloroethene	3.74	96	173498	19.979	ug/l 96
11) Methyl Iodide	3.96	142	247217	20.504	ug/l 100
12) Methyl Acetate	4.33	43	161020	21.823	ug/l 96
13) Acrolein	3.61	56	73089	84.328	ug/l 98
14) Acrylonitrile	4.99	53	329077	104.674	ug/l 98
15) Acetone	3.82	58	76343	93.766	ug/l 95
16) Carbon Disulfide	4.06	76	511784	18.615	ug/l 100
17) Allyl chloride	4.33	41	292110	19.288	ug/l 98
18) Methylene Chloride	4.55	84	203774	20.266	ug/l 99
19) trans-1,2-Dichloroethene	5.05	96	187362	20.049	ug/l 97
20) Diisopropyl ether	5.95	45	639211	20.085	ug/l 99
21) 1,1-Dichloroethane	5.85	63	366097	20.182	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	218330	20.385	ug/l 98
23) tert-Butyl Alcohol	4.78	59	50080m	107.083	ug/l
24) Methyl tert-Butyl Ether	5.05	73	478031	20.983	ug/l 99
25) Chloroform	7.37	83	357413	20.424	ug/l 98
26) Cyclohexane	7.65	56	327243	19.128	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	268357	19.746	ug/l 99
30) 2-Butanone	6.84	43	367682	101.105	ug/l 99
31) 2,2-Dichloropropane	6.83	77	239185	19.117	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	293816	20.777	ug/l 98
33) Carbon Tetrachloride	7.77	117	254725	20.586	ug/l 100
34) Benzene	8.04	78	837118	20.487	ug/l 98
35) Methacrylonitrile	7.18	41	91634	20.309	ug/l 99
36) 1,2-Dichloroethane	8.12	62	251053	20.276	ug/l 99
37) Trichloroethene	8.84	130	214452	20.697	ug/l 97
38) Methylcyclohexane	9.08	83	318069	18.906	ug/l 99
39) 1,2-Dichloropropane	9.12	63	222697	20.332	ug/l 99
40) Dibromomethane	9.21	93	127107	21.475	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	269698	20.624	ug/l	100
42) Vinyl Acetate	5.90	43	1982708	100.765	ug/l	99
43) Ethyl Acetate	6.84	43	367682	47.548	ug/l	100
44) Isopropyl Acetate	8.16	43	295171	21.764	ug/l	98
45) 1,4-Dioxane	9.20	88	30252	407.747	ug/l	99
46) Methyl methacrylate	9.20	41	150964	21.439	ug/l	99
47) n-amyl Acetate	12.07	43	224315	19.948	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	254787	20.094	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	308535	19.972	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	178540	21.280	ug/l	98
51) Ethyl methacrylate	10.43	69	219780	20.857	ug/l	95
52) 1,3-Dichloropropane	10.71	76	313580	20.998	ug/l	99
53) Dibromochloromethane	10.90	129	196373	21.259	ug/l	100
54) 1,2-Dibromoethane	11.01	107	175579	21.416	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	588476	95.406	ug/l	99
56) Bromoform	12.13	173	128523	21.287	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	832143	110.495	ug/l	99
59) 2-Hexanone	10.75	43	536122	104.211	ug/l	99
61) Tetrachloroethene	10.63	164	216199	22.597	ug/l	95
62) Toluene	10.16	91	887021	20.713	ug/l	100
64) Chlorobenzene	11.43	112	540212	20.667	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	192441	21.211	ug/l	98
66) Ethyl Benzene	11.51	91	938146	20.326	ug/l	100
67) m/p-Xylenes	11.62	106	702227	40.839	ug/l	99
68) o-Xylene	11.95	106	348012	20.852	ug/l	99
69) Styrene	11.96	104	550309	20.429	ug/l	100
70) Isopropylbenzene	12.25	105	916402	20.637	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	212222	21.970	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	178543m	21.532	ug/l	
73) Bromobenzene	12.53	156	229255	21.347	ug/l	95
74) n-propylbenzene	12.59	91	1027506	19.860	ug/l	99
75) 2-Chlorotoluene	12.68	91	615922	20.509	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	739069	20.606	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	52145	19.907	ug/l	98
78) 4-Chlorotoluene	12.77	91	608115	20.277	ug/l	100
79) tert-butylbenzene	12.99	119	656625	21.022	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	742386	20.686	ug/l	99
81) sec-Butylbenzene	13.17	105	878637	20.195	ug/l	100
82) p-Isopropyltoluene	13.29	119	748566	20.206	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	387435	20.512	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	371078	20.334	ug/l	98
85) n-Butylbenzene	13.62	91	583767	18.345	ug/l	99
86) Hexachloroethane	13.88	117	126454	20.145	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	380886	21.190	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	29998	22.170	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	169279	19.115	ug/l	98
90) Hexachlorobutadiene	15.01	225	118304	20.365	ug/l	99
91) Naphthalene	15.14	128	344720	19.276	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	169536	20.774	ug/l	96

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

