

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\
 Data File : VN058911.D
 Acq On : 22 Oct 2019 16:08
 Operator : JC/SP
 Sample : VN1023WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1023WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/23/2019 3:09:53 PM

Quant Time: Oct 23 02:20:39 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	57219	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	304630	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	284778	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	148428	30.56	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.87%
60) 4-Bromofluorobenzene	12.40	95	141749	28.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.83%
63) Toluene-d8	10.08	98	408018	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	65801	21.225 ug/l	99
3) Chloromethane	2.04	50	85939	20.752 ug/l	98
4) Vinyl Chloride	2.17	62	88913	20.774 ug/l	97
5) Bromomethane	2.54	94	57089	21.604 ug/l	99
6) Chloroethane	2.68	64	59594	22.151 ug/l	100
7) Trichlorofluoromethane	3.00	101	107842	20.471 ug/l	97
8) Diethyl Ether	3.39	74	41130	20.470 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	64173	21.053 ug/l	98
10) 1,1-Dichloroethene	3.72	96	59470	19.864 ug/l	99
11) Methyl Iodide	3.93	142	81139	19.461 ug/l	99
12) Methyl Acetate	4.30	43	97993	20.458 ug/l	97
13) Acrolein	3.59	56	53393	100.886 ug/l	95
14) Acrylonitrile	4.96	53	188557	99.906 ug/l	98
15) Acetone	3.80	58	64572	115.259 ug/l	88
16) Carbon Disulfide	4.03	76	174475	19.981 ug/l	100
17) Allyl chloride	4.30	41	119644	20.079 ug/l	95
18) Methylene Chloride	4.53	84	73434	20.256 ug/l	95
19) trans-1,2-Dichloroethene	5.02	96	65317	20.041 ug/l	91
20) Diisopropyl ether	5.93	45	249505	20.551 ug/l	97
21) 1,1-Dichloroethane	5.82	63	139826	20.799 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	77725	20.001 ug/l	97
23) tert-Butyl Alcohol	4.76	59	64478	83.524 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	219341	19.639 ug/l	97
25) Chloroform	7.35	83	138514	20.659 ug/l	100
26) Cyclohexane	7.63	56	115241	19.530 ug/l	# 97
29) 1,1-Dichloropropene	7.77	75	99270	20.701 ug/l	99
30) 2-Butanone	6.81	43	272823	100.679 ug/l	99
31) 2,2-Dichloropropane	6.80	77	122229	21.626 ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	119673	21.577 ug/l	99
33) Carbon Tetrachloride	7.76	117	103421	21.543 ug/l	99
34) Benzene	8.02	78	299566	21.220 ug/l	97
35) Methacrylonitrile	7.16	41	46526	19.436 ug/l	93
36) 1,2-Dichloroethane	8.11	62	117097	21.694 ug/l	100
37) Trichloroethene	8.82	130	70734	20.395 ug/l	99
38) Methylcyclohexane	9.07	83	106621	19.177 ug/l	97
39) 1,2-Dichloropropane	9.11	63	81690	21.174 ug/l	98
40) Dibromomethane	9.20	93	52608	21.600 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	107510	21.607	ug/l	96
42) Vinyl Acetate	5.87	43	1024813	107.984	ug/l	99
43) Ethyl Acetate	6.91	43	108171	20.338	ug/l	98
44) Isopropyl Acetate	8.15	43	174803	20.290	ug/l #	87
45) 1,4-Dioxane	9.19	88	22426	338.995	ug/l	92
46) Methyl methacrylate	9.19	41	77852	19.684	ug/l	99
47) n-amyl Acetate	12.07	43	143980	18.852	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	117831	20.419	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	126365	20.854	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	73478	21.133	ug/l	94
51) Ethyl methacrylate	10.43	69	106686	19.189	ug/l	97
52) 1,3-Dichloropropane	10.70	76	129142	20.856	ug/l	99
53) Dibromochloromethane	10.90	129	79149	21.212	ug/l	99
54) 1,2-Dibromoethane	11.00	107	74470	20.664	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	258017	93.298	ug/l	99
56) Bromoform	12.13	173	54154	20.834	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	541078	104.152	ug/l	98
59) 2-Hexanone	10.75	43	400979	98.453	ug/l	98
61) Tetrachloroethene	10.63	164	64357	20.913	ug/l	97
62) Toluene	10.15	91	316397	20.655	ug/l	99
64) Chlorobenzene	11.43	112	188057	20.080	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	72794	20.729	ug/l	98
66) Ethyl Benzene	11.51	91	338353	19.948	ug/l	99
67) m/p-Xylenes	11.62	106	248927	39.281	ug/l	98
68) o-Xylene	11.95	106	120620	19.634	ug/l	100
69) Styrene	11.97	104	192967	19.013	ug/l	99
70) Isopropylbenzene	12.25	105	326129	19.663	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	112679	20.180	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	108156m	21.376	ug/l	
73) Bromobenzene	12.53	156	80373	19.950	ug/l	99
74) n-propylbenzene	12.59	91	391152	20.148	ug/l	100
75) 2-Chlorotoluene	12.68	91	232990	19.947	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	280499	19.745	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	36738	19.060	ug/l	96
78) 4-Chlorotoluene	12.78	91	240879	20.008	ug/l	100
79) tert-butylbenzene	13.00	119	234390	19.312	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	280534	19.873	ug/l	100
81) sec-Butylbenzene	13.17	105	319249	19.545	ug/l	100
82) p-Isopropyltoluene	13.29	119	283230	19.310	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	142648	19.568	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	136291	18.717	ug/l	99
85) n-Butylbenzene	13.62	91	249728	18.597	ug/l	99
86) Hexachloroethane	13.88	117	53437	20.019	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	141420	19.651	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	23213	18.678	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	74594	16.415	ug/l	97
90) Hexachlorobutadiene	15.01	225	42902	18.283	ug/l	98
91) Naphthalene	15.13	128	206236	15.371	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	75255	17.012	ug/l	97

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

