

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\
 Data File : VN058379.D
 Acq On : 26 Sep 2019 12:45
 Operator : JC/SP
 Sample : VN0926WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0926WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/27/2019 11:19:09 AM

Quant Time: Sep 27 04:09:19 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	76213	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	449319	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	402295	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	208513	30.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.17%
60) 4-Bromofluorobenzene	12.41	95	202135	29.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.80%
63) Toluene-d8	10.08	98	576557	30.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	93062	20.305 ug/l	95
3) Chloromethane	2.04	50	109970	20.781 ug/l	100
4) Vinyl Chloride	2.17	62	106978	20.259 ug/l	96
5) Bromomethane	2.55	94	58820	20.515 ug/l	98
6) Chloroethane	2.69	64	65299	20.924 ug/l	92
7) Trichlorofluoromethane	3.00	101	129176	20.776 ug/l	95
8) Diethyl Ether	3.39	74	56947	20.603 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	85332	19.938 ug/l	99
10) 1,1-Dichloroethene	3.72	96	83548	19.969 ug/l	98
11) Methyl Iodide	3.93	142	91875	21.418 ug/l	98
12) Methyl Acetate	4.30	43	109573	19.663 ug/l	99
13) Acrolein	3.59	56	14327	90.417 ug/l	96
14) Acrylonitrile	4.96	53	228949	99.505 ug/l	98
15) Acetone	3.79	58	64493	101.091 ug/l	96
16) Carbon Disulfide	4.03	76	218426	18.786 ug/l	98
17) Allyl chloride	4.30	41	151869	19.433 ug/l	92
18) Methylene Chloride	4.53	84	102864	20.841 ug/l	93
19) trans-1,2-Dichloroethene	5.02	96	93235	19.877 ug/l	95
20) Diisopropyl ether	5.93	45	327555	19.671 ug/l	98
21) 1,1-Dichloroethane	5.83	63	189373	20.323 ug/l	97
22) cis-1,2-Dichloroethene	6.81	96	109529	20.104 ug/l	99
23) tert-Butyl Alcohol	4.76	59	81225	95.628 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	303350	20.199 ug/l	100
25) Chloroform	7.36	83	190664	20.207 ug/l	99
26) Cyclohexane	7.64	56	170791	19.610 ug/l	# 98
29) 1,1-Dichloropropene	7.78	75	145896	19.892 ug/l	99
30) 2-Butanone	6.81	43	325329	97.689 ug/l	# 61
31) 2,2-Dichloropropane	6.80	77	144779	19.174 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	158204	19.999 ug/l	98
33) Carbon Tetrachloride	7.76	117	132131	19.660 ug/l	100
34) Benzene	8.03	78	416727	20.029 ug/l	98
35) Methacrylonitrile	7.16	41	55591m	19.408 ug/l	
36) 1,2-Dichloroethane	8.11	62	165667	20.326 ug/l	100
37) Trichloroethene	8.82	130	104099	19.985 ug/l	96
38) Methylcyclohexane	9.07	83	168698	19.022 ug/l	99
39) 1,2-Dichloropropane	9.11	63	114660	20.204 ug/l	99
40) Dibromomethane	9.20	93	72153	20.144 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	142093	20.070	ug/l	99
42) Vinyl Acetate	5.87	43	1370817	107.808	ug/l	100
43) Ethyl Acetate	6.91	43	122886	18.585	ug/l	95
44) Isopropyl Acetate	8.15	43	234139	19.781	ug/l	100
45) 1,4-Dioxane	9.19	88	39414	394.707	ug/l	95
46) Methyl methacrylate	9.19	41	108661	19.370	ug/l	94
47) n-amyl Acetate	12.07	43	188642	18.309	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	148662	19.217	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	166502	19.331	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	100322	20.041	ug/l	96
51) Ethyl methacrylate	10.43	69	152612	19.269	ug/l	99
52) 1,3-Dichloropropane	10.71	76	177688	19.986	ug/l	97
53) Dibromochloromethane	10.90	129	95547	18.999	ug/l	99
54) 1,2-Dibromoethane	11.00	107	101821	19.932	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	325642	97.101	ug/l	99
56) Bromoform	12.13	173	59700	18.820	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	681935	108.184	ug/l	99
59) 2-Hexanone	10.75	43	489802	102.784	ug/l	99
61) Tetrachloroethene	10.63	164	83530	19.819	ug/l	97
62) Toluene	10.15	91	454861	20.645	ug/l	99
64) Chlorobenzene	11.43	112	266908	19.713	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	93485	19.696	ug/l	99
66) Ethyl Benzene	11.51	91	499956	20.810	ug/l	99
67) m/p-Xylenes	11.62	106	357775	38.789	ug/l	97
68) o-Xylene	11.95	106	172681	19.253	ug/l	95
69) Styrene	11.97	104	290419	19.364	ug/l	98
70) Isopropylbenzene	12.25	105	483659	20.810	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	147832	20.012	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	127563m	20.079	ug/l	
73) Bromobenzene	12.53	156	107251	19.051	ug/l	96
74) n-propylbenzene	12.60	91	562187	20.981	ug/l	99
75) 2-Chlorotoluene	12.68	91	333390	19.891	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	403016	20.138	ug/l	100
77) t-1,4-Dichloro-2-butene	12.31	75	35353	17.060	ug/l	98
78) 4-Chlorotoluene	12.78	91	333603	19.420	ug/l	100
79) tert-butylbenzene	13.00	119	346555	20.001	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	398240	19.936	ug/l	99
81) sec-Butylbenzene	13.18	105	462915	20.369	ug/l	100
82) p-Isopropyltoluene	13.30	119	404500	19.764	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	196159	18.886	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	194954	18.859	ug/l	100
85) n-Butylbenzene	13.62	91	362735	19.077	ug/l	99
86) Hexachloroethane	13.88	117	62533	18.917	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	194506	19.178	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	25912	17.973	ug/l	100
89) 1,2,4-Trichlorobenzene	14.92	180	109888	16.585	ug/l	97
90) Hexachlorobutadiene	15.02	225	58130	18.132	ug/l	98
91) Naphthalene	15.13	128	306789	16.860	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	106529	16.740	ug/l	99

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

