

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058564.D
 Acq On : 7 Oct 2019 14:01
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 10:50:30 AM

Quant Time: Oct 08 14:59:27 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	73616	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	424491	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	381481	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	193117	29.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.93%
60) 4-Bromofluorobenzene	12.41	95	191995	29.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.97%
63) Toluene-d8	10.08	98	538737	29.59	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	88850	20.070	ug/l 100
3) Chloromethane	2.04	50	116888	22.867	ug/l 100
4) Vinyl Chloride	2.17	62	109314	21.432	ug/l 98
5) Bromomethane	2.55	94	56523	20.409	ug/l 98
6) Chloroethane	2.68	64	66797	22.160	ug/l 97
7) Trichlorofluoromethane	3.00	101	129662	21.590	ug/l 99
8) Diethyl Ether	3.39	74	53283	19.958	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	82296	19.907	ug/l 99
10) 1,1-Dichloroethene	3.72	96	78356	19.389	ug/l 99
11) Methyl Iodide	3.93	142	71682	17.300	ug/l 98
12) Methyl Acetate	4.30	43	111679	20.748	ug/l 99
13) Acrolein	3.59	56	33072	216.079	ug/l 97
14) Acrylonitrile	4.96	53	222246	100.000	ug/l 99
15) Acetone	3.80	58	61851	100.370	ug/l 96
16) Carbon Disulfide	4.03	76	223365	19.889	ug/l 99
17) Allyl chloride	4.30	41	158736	21.028	ug/l 96
18) Methylene Chloride	4.53	84	98536	20.669	ug/l 97
19) trans-1,2-Dichloroethene	5.02	96	88347	19.500	ug/l 93
20) Diisopropyl ether	5.93	45	328624	20.431	ug/l 99
21) 1,1-Dichloroethane	5.83	63	181022	20.112	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	105338	20.016	ug/l 99
23) tert-Butyl Alcohol	4.76	59	82313	100.328	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	299557	20.650	ug/l 98
25) Chloroform	7.36	83	183249	20.106	ug/l 99
26) Cyclohexane	7.64	56	156705	18.627	ug/l # 96
29) 1,1-Dichloropropene	7.78	75	133717	19.298	ug/l 98
30) 2-Butanone	6.82	43	300699	95.575	ug/l 100
31) 2,2-Dichloropropane	6.80	77	159720	22.390	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	158313	21.183	ug/l 99
33) Carbon Tetrachloride	7.76	117	134657	21.207	ug/l 96
34) Benzene	8.03	78	393524	20.020	ug/l 98
35) Methacrylonitrile	7.17	41	63207m	23.357	ug/l
36) 1,2-Dichloroethane	8.11	62	151622	19.691	ug/l 99
37) Trichloroethene	8.82	130	100361	20.395	ug/l 97
38) Methylcyclohexane	9.07	83	153455	18.315	ug/l 98
39) 1,2-Dichloropropane	9.11	63	108744	20.282	ug/l 99
40) Dibromomethane	9.20	93	67733	20.016	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	138122	20.650	ug/l	98
42) Vinyl Acetate	5.88	43	1339269	111.487	ug/l	100
43) Ethyl Acetate	6.91	43	134152	21.475	ug/l	99
44) Isopropyl Acetate	8.15	43	222608	19.907	ug/l #	82
45) 1,4-Dioxane	9.19	88	33964	360.023	ug/l	94
46) Methyl methacrylate	9.19	41	100113	18.890	ug/l	98
47) n-amyl Acetate	12.07	43	189621	19.481	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	152375	20.849	ug/l	94
49) cis-1,3-Dichloropropene	9.83	75	166139	20.417	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	97286	20.571	ug/l	98
51) Ethyl methacrylate	10.43	69	142284	19.015	ug/l	97
52) 1,3-Dichloropropane	10.71	76	170285	20.274	ug/l	99
53) Dibromochloromethane	10.90	129	96504	20.312	ug/l	98
54) 1,2-Dibromoethane	11.01	107	95906	19.872	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	361959	114.242	ug/l	99
56) Bromoform	12.13	173	61594	20.553	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	639784	107.034	ug/l	100
59) 2-Hexanone	10.75	43	456234	100.963	ug/l	100
61) Tetrachloroethene	10.63	164	84962	21.259	ug/l	97
62) Toluene	10.15	91	419656	20.086	ug/l	99
64) Chlorobenzene	11.44	112	258429	20.128	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	93858	20.853	ug/l	99
66) Ethyl Benzene	11.51	91	474098	20.810	ug/l	99
67) m/p-Xylenes	11.62	106	343212	39.240	ug/l	100
68) o-Xylene	11.95	106	166960	19.631	ug/l	96
69) Styrene	11.97	104	268267	18.863	ug/l	99
70) Isopropylbenzene	12.26	105	453897	20.595	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	138914	19.831	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	129249m	21.455	ug/l	
73) Bromobenzene	12.53	156	105124	19.692	ug/l	97
74) n-propylbenzene	12.60	91	528584	20.804	ug/l	100
75) 2-Chlorotoluene	12.68	91	317967	20.006	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	378914	19.967	ug/l	100
77) t-1,4-Dichloro-2-butene	12.31	75	37962	19.318	ug/l	89
78) 4-Chlorotoluene	12.78	91	320559	19.679	ug/l	99
79) tert-butylbenzene	13.00	119	318272	19.371	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	380281	20.076	ug/l	99
81) sec-Butylbenzene	13.18	105	431737	20.034	ug/l	99
82) p-Isopropyltoluene	13.30	119	385462	19.862	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	190217	19.313	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	185599	18.934	ug/l	99
85) n-Butylbenzene	13.62	91	339910	18.852	ug/l	99
86) Hexachloroethane	13.88	117	63736	20.333	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	186584	19.401	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	26752	19.568	ug/l	100
89) 1,2,4-Trichlorobenzene	14.92	180	107338	17.084	ug/l	96
90) Hexachlorobutadiene	15.02	225	51315	16.879	ug/l	96
91) Naphthalene	15.13	128	320283	18.562	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	105961	17.559	ug/l	98

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

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