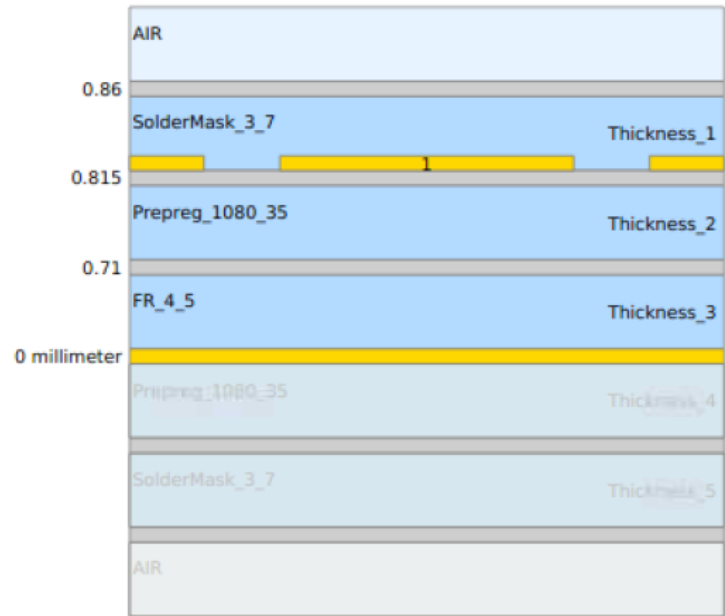


GCPW



Variables								
Name	Nominal	Sweep	Sweep Type	Start	Stop	Npts	Step	
freq	1 GHz	<input checked="" type="checkbox"/>	Linear	0.1 GHz	10 GHz	10	1.1 GHz	
Length	10 mm	<input type="checkbox"/>	Linear	1 mm	10 mm	10	1 mm	
top_layer_Thickness	0.035 mm	<input type="checkbox"/>	Linear	1 mm	10 mm	10	1 mm	
top_layer_Angle	90 deg	<input type="checkbox"/>	Linear	45 deg	135 deg	10	10 deg	
Thickness_1	10 um	<input checked="" type="checkbox"/>	Linear	7 um	30 um	10	2.55556 um	
Thickness_2	70 um	<input type="checkbox"/>	Linear	1 um	10 um	10	1 um	
Thickness_3	0.71 mm	<input type="checkbox"/>	Linear	1 mm	10 mm	10	1 mm	
Prepreg_1080_35_Er_Real	3.5	<input type="checkbox"/>	Linear	1	10	10	1	
Prepreg_1080_35_Er_TanD	0.01	<input type="checkbox"/>	Linear	1	10	10	1	
SolderMask_3_7_Er_Real	3.7	<input checked="" type="checkbox"/>	Linear	1	4.5	10	0.388889	
SolderMask_3_7_Er_TanD	0.01	<input type="checkbox"/>	Linear	1	10	10	1	
FR_4_5_Er_Real	5	<input type="checkbox"/>	Linear	1	10	10	1	
FR_4_5_Er_TanD	0.01	<input type="checkbox"/>	Linear	1	10	10	1	

Results

m3
SolderMask_3_7__Er_Real=1.000

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=54.104
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.987
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.976
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.964
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.950
freq=6.700GHz

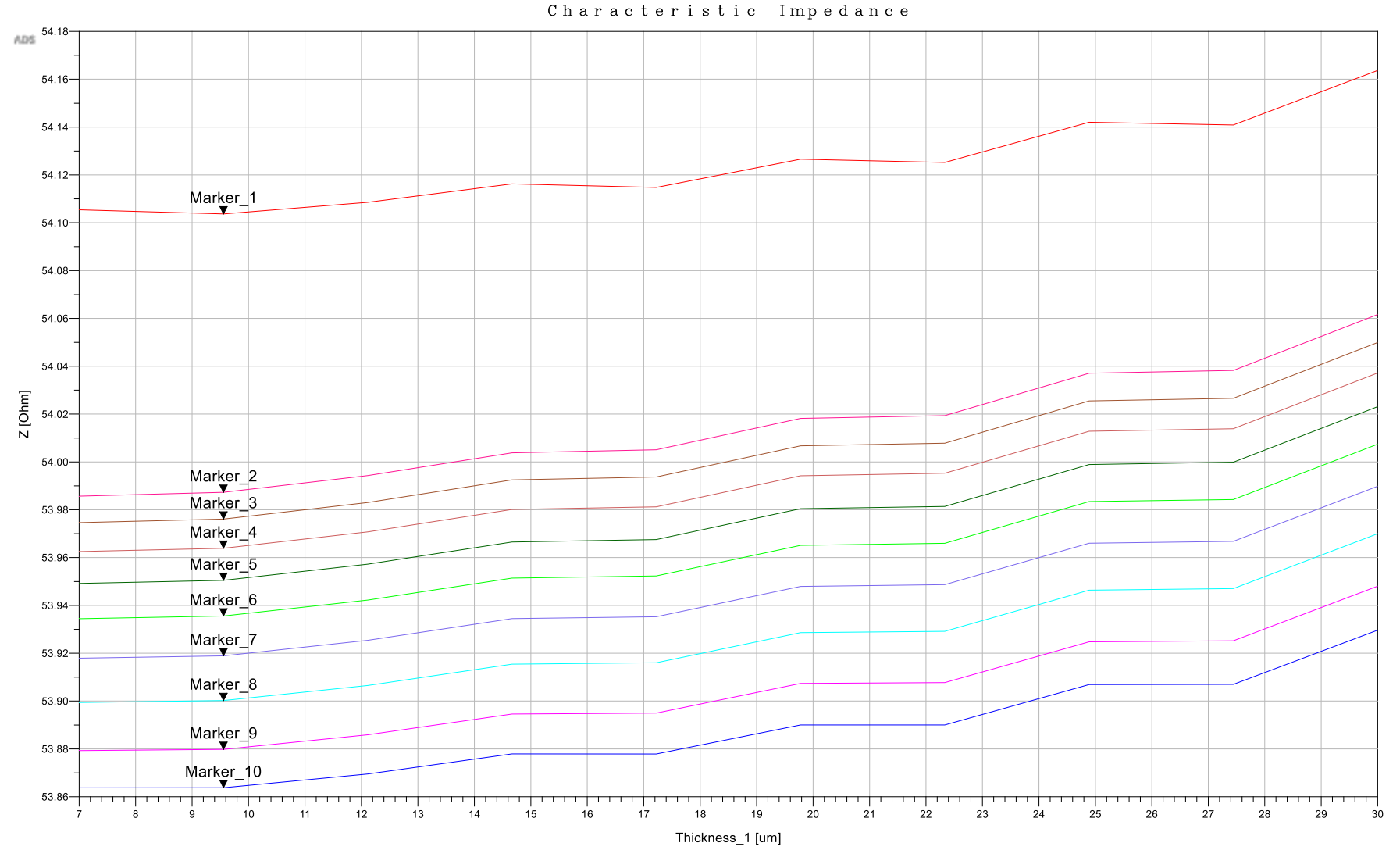
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.936
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.919
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.900
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.880
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=53.864
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=1.778

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.791
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.667
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.656
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.645
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.632
freq=6.700GHz

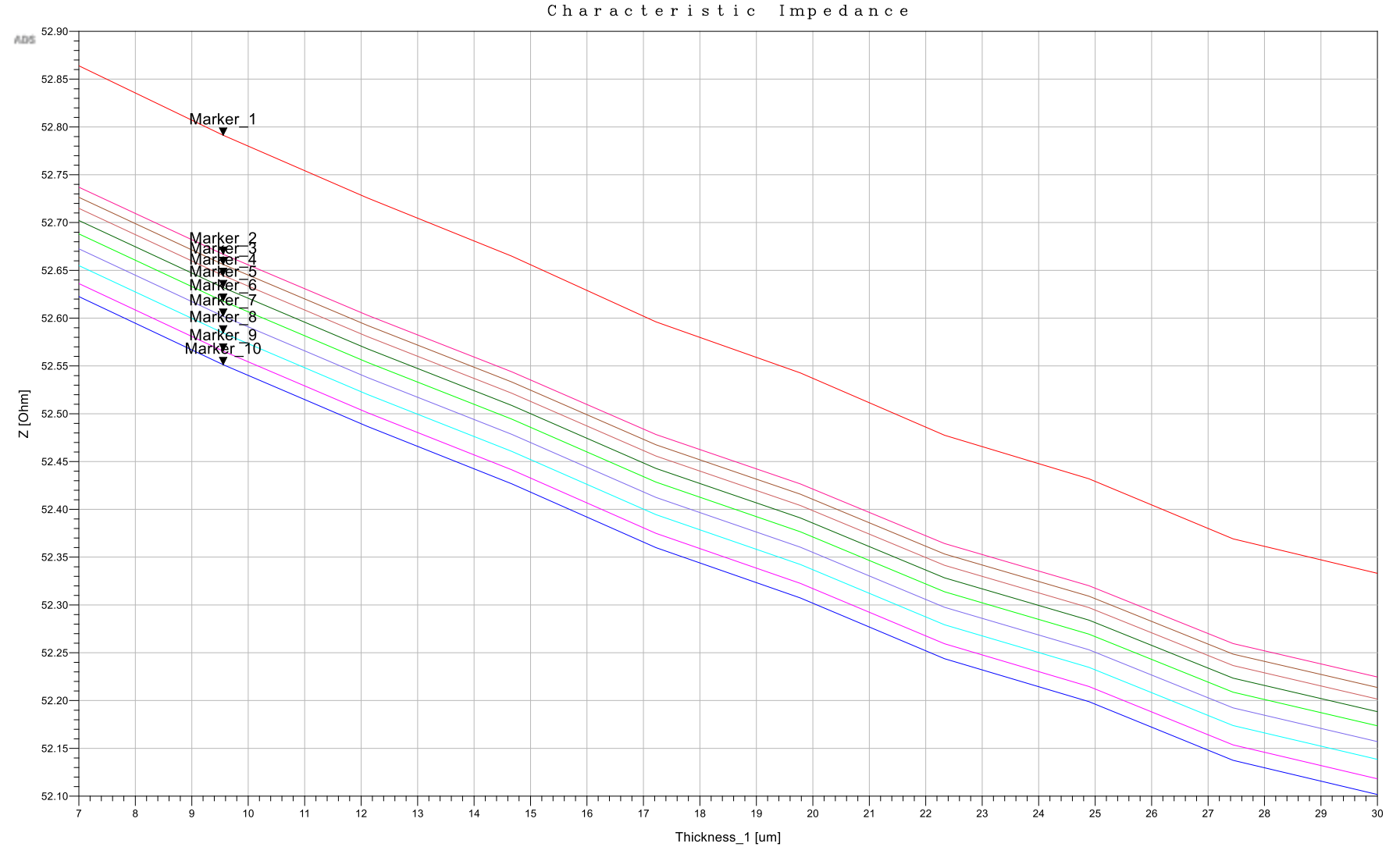
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.618
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.602
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.584
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.565
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,,,,:])=52.551
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=2.167

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.436
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.310
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.300
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.288
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.276
freq=6.700GHz

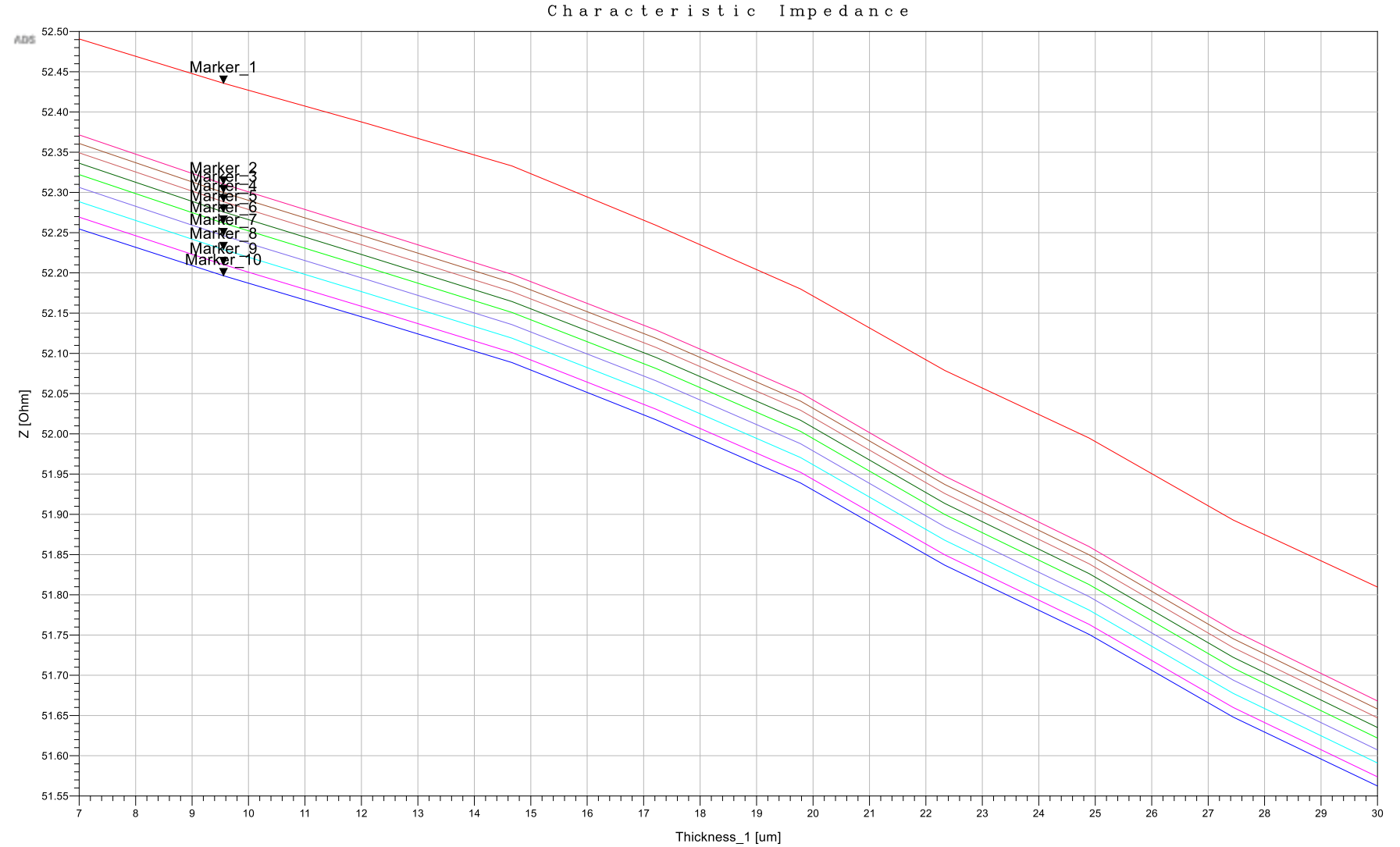
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.262
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.246
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.229
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.210
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=52.196
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=2.556

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.842
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.734
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.723
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.712
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.699
freq=6.700GHz

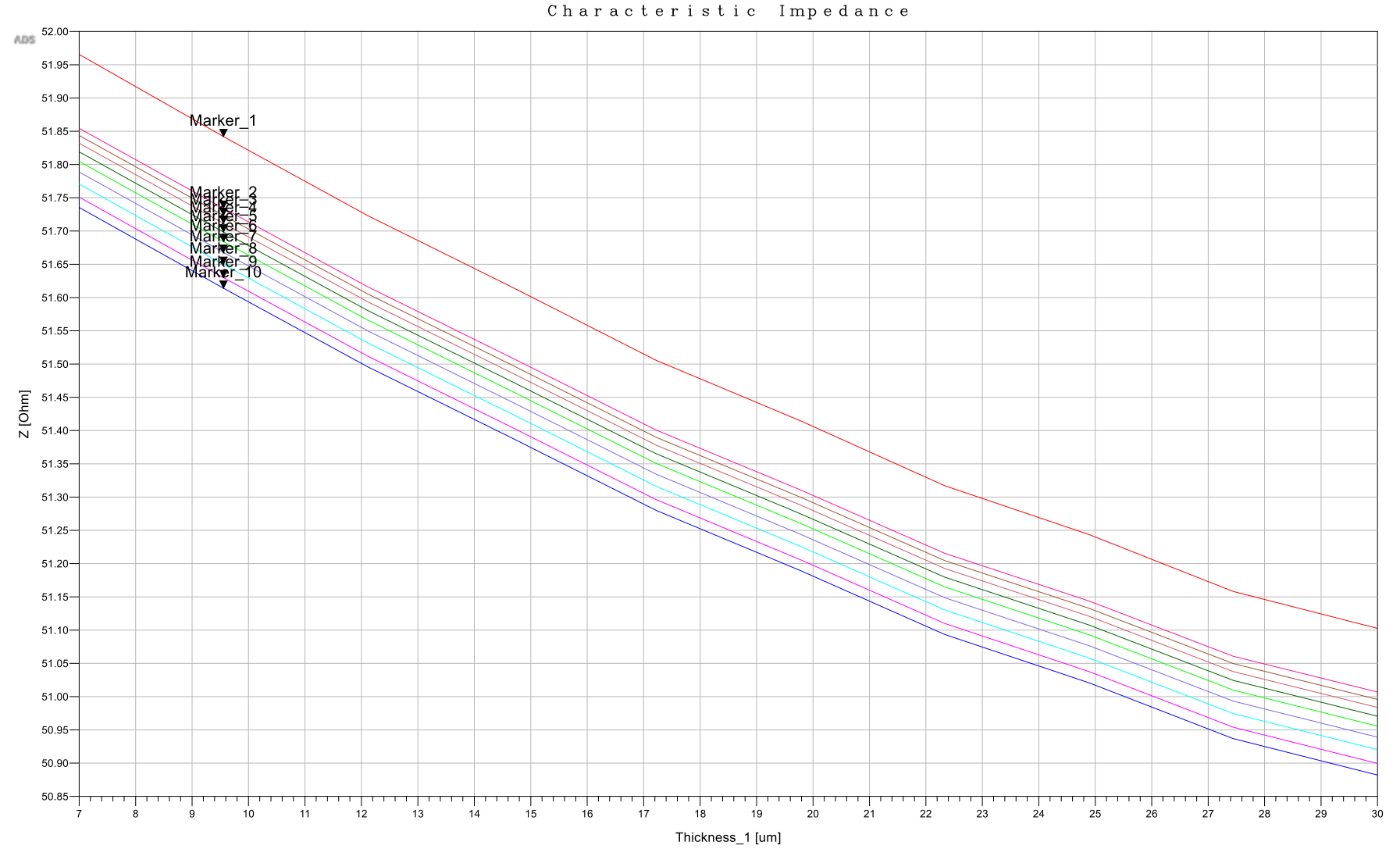
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.684
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.668
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.650
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.630
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.614
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=2.944

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.200
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.091
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.081
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.069
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.056
freq=6.700GHz

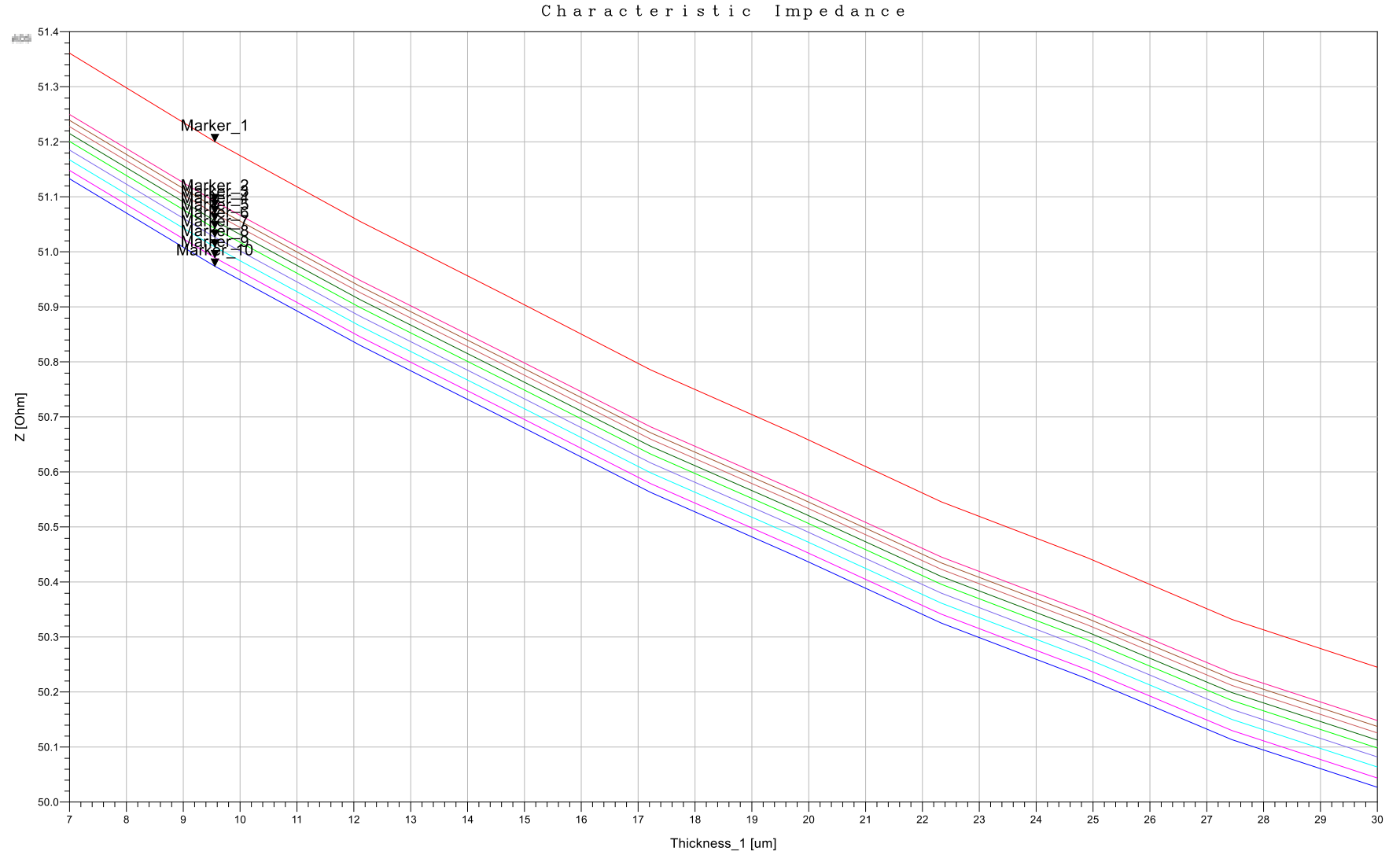
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.042
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.026
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=51.009
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=50.989
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,::,:])=50.974
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=3.333

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.664
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.558
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.548
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.536
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.524
freq=6.700GHz

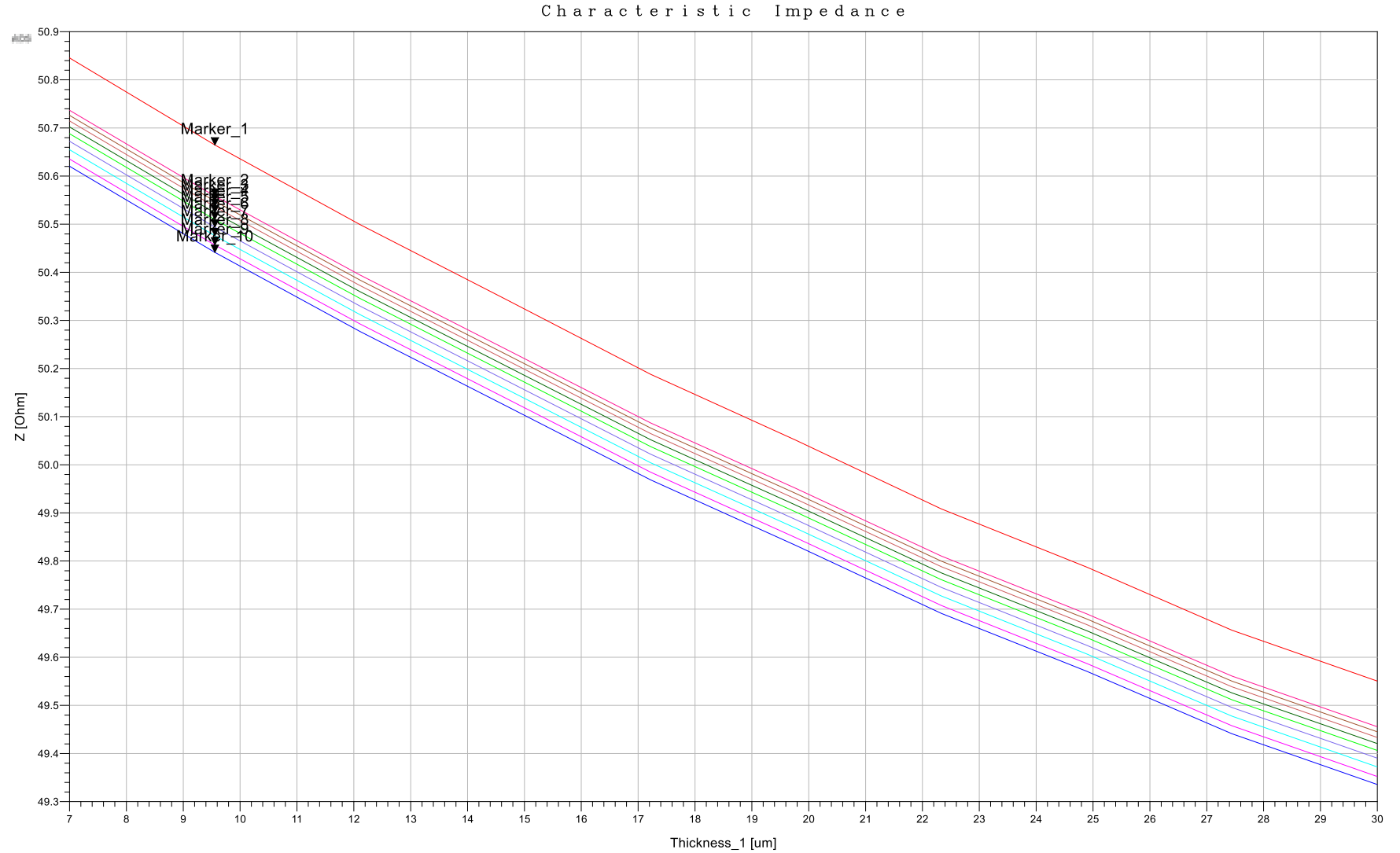
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.510
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.494
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.476
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.457
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.441
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=3.722

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.157
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.054
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.043
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.032
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.019
freq=6.700GHz

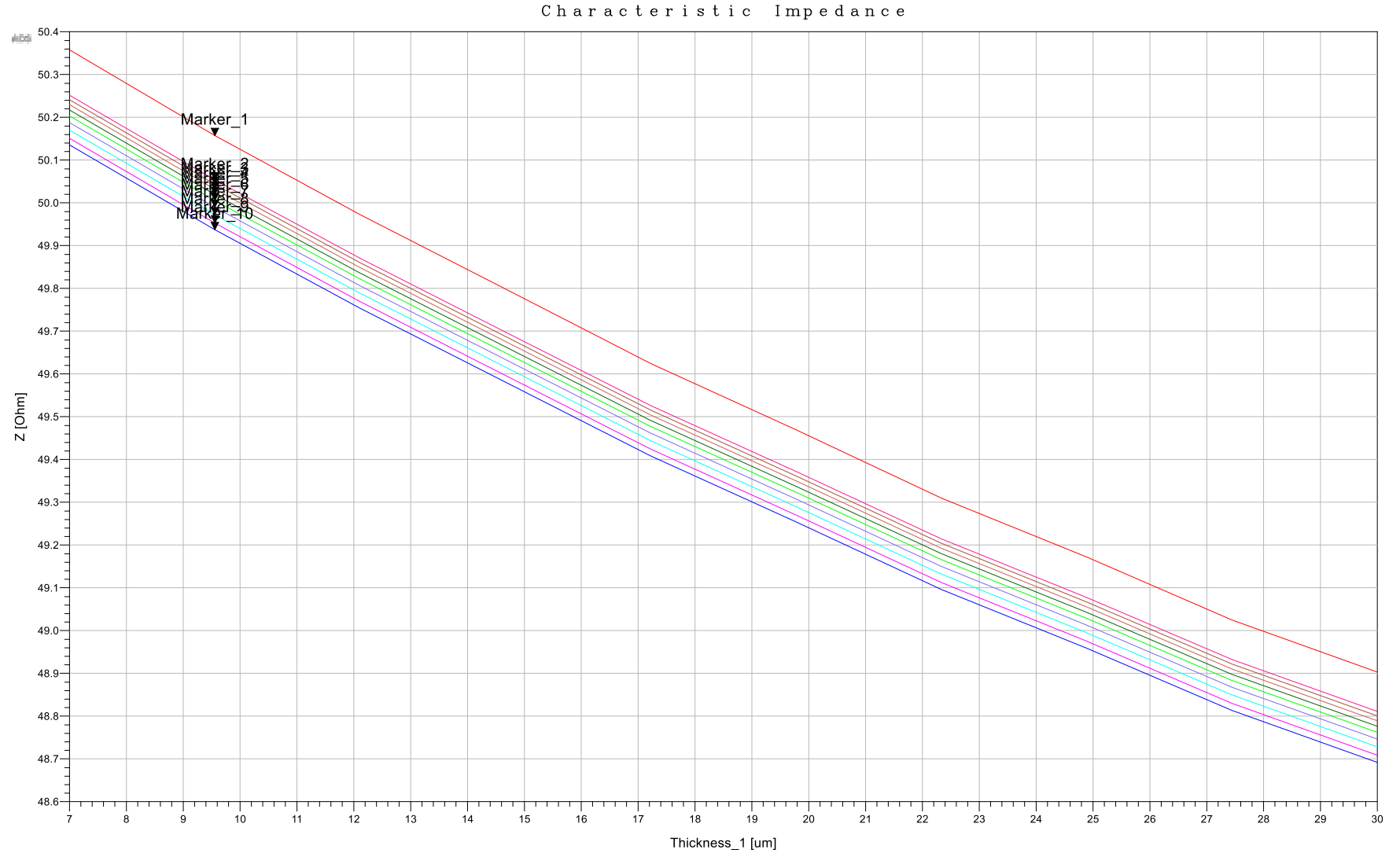
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=50.005
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.989
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.972
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.952
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.937
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=4.111

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.670
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.570
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.559
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.548
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.535
freq=6.700GHz

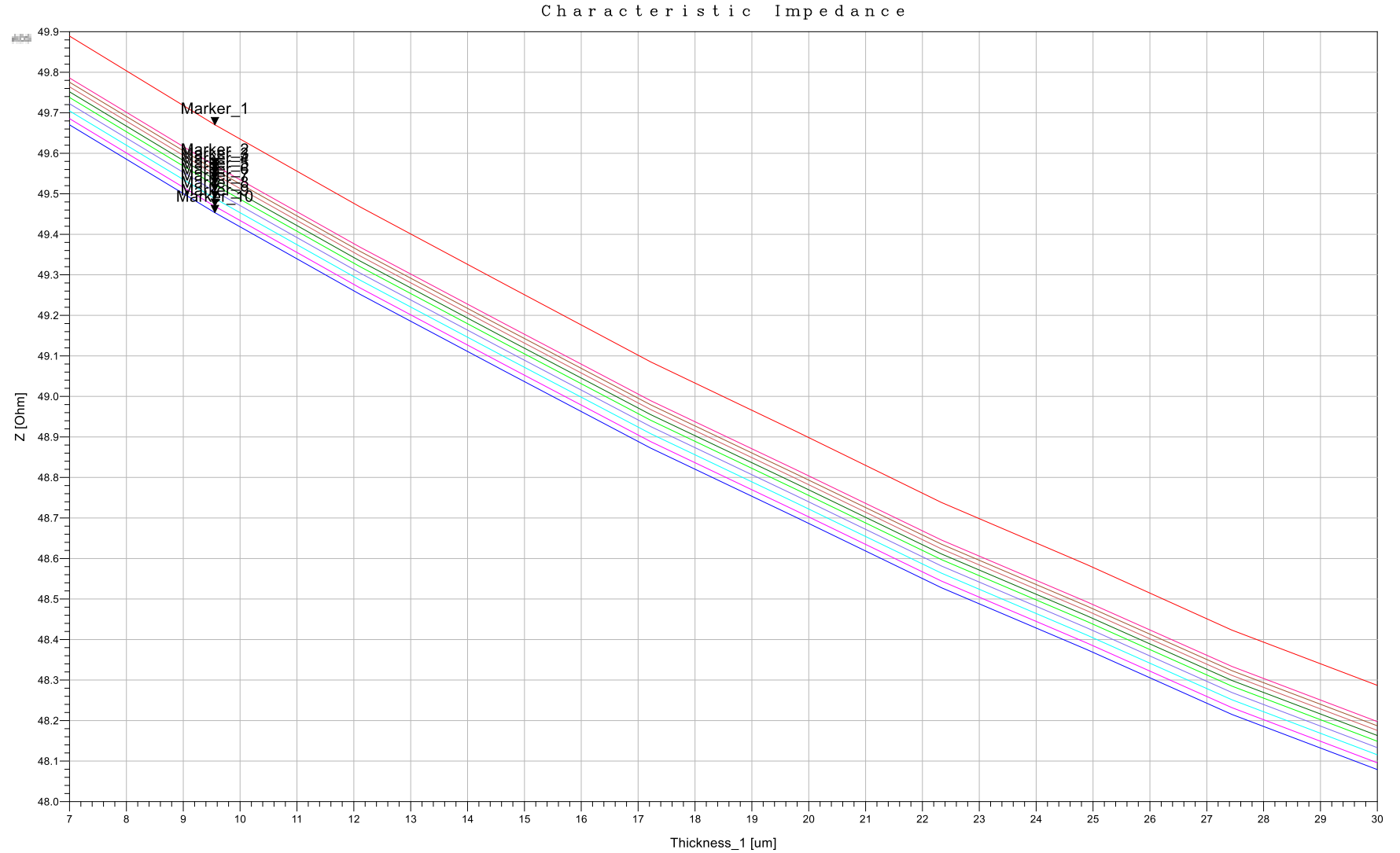
Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.521
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.506
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.488
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.469
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.453
freq=1.200GHz



Results

m3
SolderMask_3_7__Er_Real=4.500

Marker_1
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.201
freq=100.0MHz

Marker_2
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.103
freq=10.00GHz

Marker_3
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.093
freq=8.900GHz

Marker_4
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.081
freq=7.800GHz

Marker_5
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.069
freq=6.700GHz

Marker_6
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.055
freq=5.600GHz

Marker_7
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.039
freq=4.500GHz

Marker_8
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.022
freq=3.400GHz

Marker_9
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=49.003
freq=2.300GHz

Marker_10
Thickness_1=9.556
permute(mag(Zc)[m3_SolderMask_3_7__Er_Real_index,:,:])=48.987
freq=1.200GHz

