



Flint Trace Antenna Info

Flint Trace Antenna Information

Model Number: 4802062

Table 1: Flint PCB Trace Antenna Maximum Gain

Maximum Antenna Gain (Trace Antenna)	
2.4 GHz Band	5GHz Band
3.44dBi @ 2480MHz	4.12dBi @5350MHz

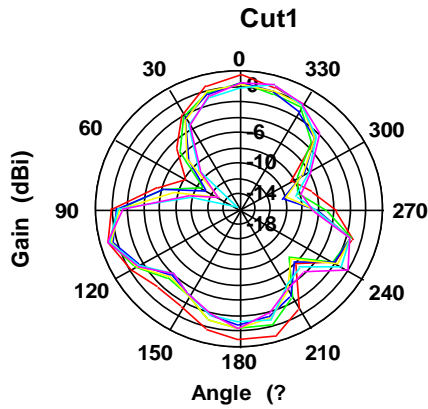
Figure 1: Flint Trace Antenna Model 4802062 Gain vs Frequency
Max Gain for 2.4WLAN band and 5WLAN band highlighted below

Frequency (MHz)	Efficiency(%)	Gain(dBi)
2400	56.63	2.74
2420	50.59	2.37
2440	47.41	2.58
2460	52.00	3.08
2480	51.86	3.44
2500	54.45	3.86
5150	54.64	3.71
5200	49.32	3.23
5250	47.60	3.09
5300	51.43	3.51
5350	56.80	4.12
5400	52.25	3.63
5450	50.08	3.36
5500	51.56	3.29
5550	49.06	2.97
5600	44.02	2.49
5650	40.51	2.60
5700	42.49	1.95
5750	48.61	2.10
5800	49.71	2.49
5850	51.42	2.09



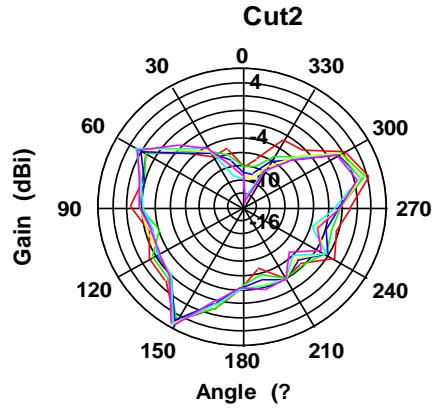
Figure 2: Flint Trace Antenna Radiation Patterns

Max: 0
Min: -18
Scale: 2/div



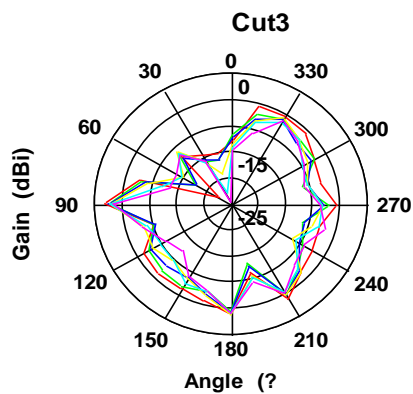
Horizontal Polarization XY Plane

Max: 4
Min: -16
Scale: 2/div



Horizontal Polarization XZ Plane

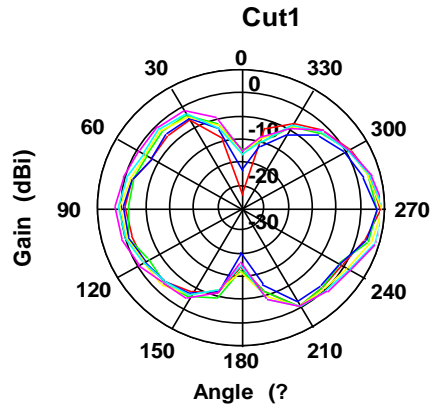
Max: 0
Min: -25
Scale: 5/div



Horizontal Polarization YZ Plane

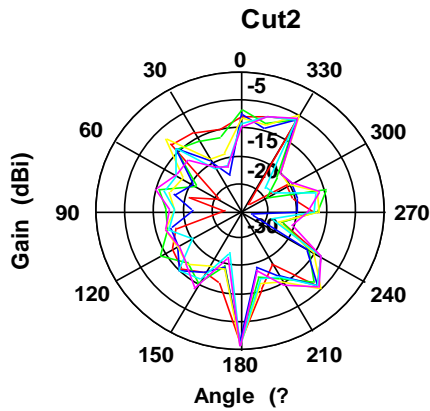


Max: 0
 Min: -30
 Scale: 5/div



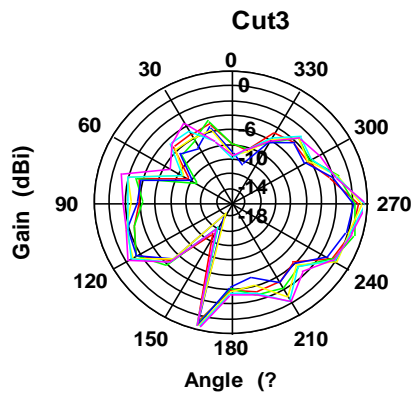
Vertical Polarization XY Plane

Max: -5
 Min: -30
 Scale: 5/div



Vertical Polarization XZ Plane

Max: 0
 Min: -18
 Scale: 2/div

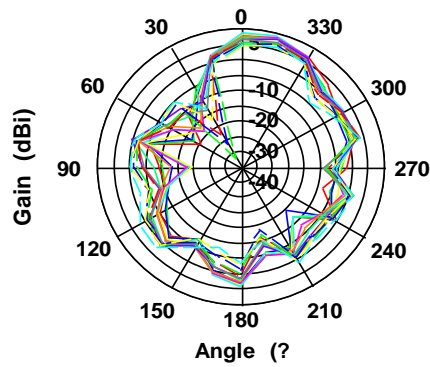


Vertical Polarization YZ Plane



2.4G 3D GAIN

Cut1

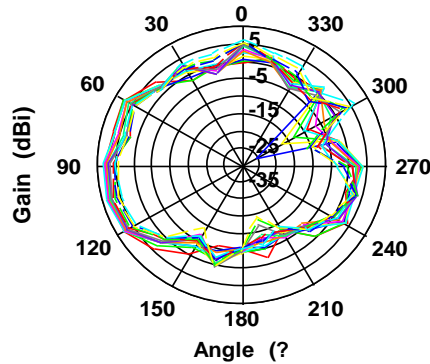


Max: 5
Min: -40
Scale: 5/div

5150 MHz	5650 MHz
5200 MHz	5700 MHz
5250 MHz	5750 MHz
5300 MHz	5800 MHz
5350 MHz	5850 MHz
5400 MHz	
5450 MHz	
5500 MHz	
5550 MHz	
5600 MHz	

Horizontal Polarization XY Plane

Cut2

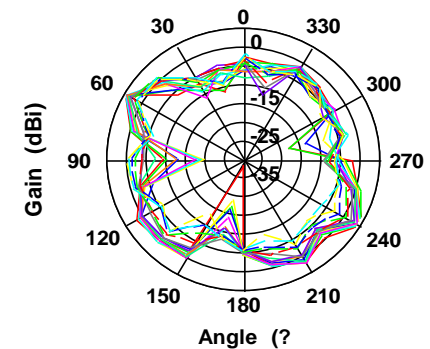


Max: 5
Min: -35
Scale: 5/div

5150 MHz	5650 MHz
5200 MHz	5700 MHz
5250 MHz	5750 MHz
5300 MHz	5800 MHz
5350 MHz	5850 MHz
5400 MHz	
5450 MHz	
5500 MHz	
5550 MHz	
5600 MHz	

Horizontal Polarization XZ Plane

Cut3



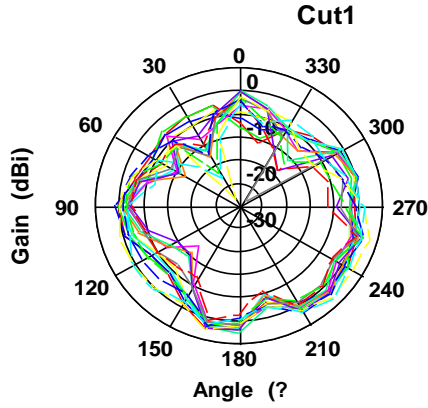
Max: 0
Min: -35
Scale: 5/div

5150 MHz	5650 MHz
5200 MHz	5700 MHz
5250 MHz	5750 MHz
5300 MHz	5800 MHz
5350 MHz	5850 MHz
5400 MHz	
5450 MHz	
5500 MHz	
5550 MHz	
5600 MHz	

Horizontal Polarization YZ Plane



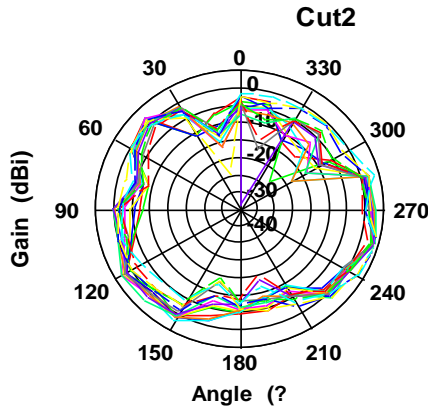
Max: 0
 Min: -30
 Scale: 5/div



5150 MHz	5650 MHz
5200 MHz	5700 MHz
5250 MHz	5750 MHz
5300 MHz	5800 MHz
5350 MHz	5850 MHz
5400 MHz	
5450 MHz	
5500 MHz	
5550 MHz	
5600 MHz	

Vertical Polarization XY Plane

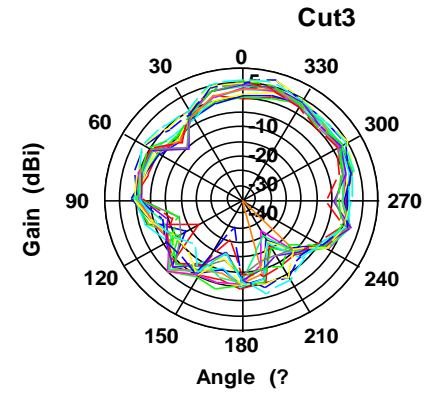
Max: 0
 Min: -40
 Scale: 5/div



5150 MHz	5650 MHz
5200 MHz	5700 MHz
5250 MHz	5750 MHz
5300 MHz	5800 MHz
5350 MHz	5850 MHz
5400 MHz	
5450 MHz	
5500 MHz	
5550 MHz	
5600 MHz	

Vertical Polarization XZ Plane

Max: 5
 Min: -40
 Scale: 5/div



5150 MHz	5650 MHz
5200 MHz	5700 MHz
5250 MHz	5750 MHz
5300 MHz	5800 MHz
5350 MHz	5850 MHz
5400 MHz	
5450 MHz	
5500 MHz	
5550 MHz	
5600 MHz	

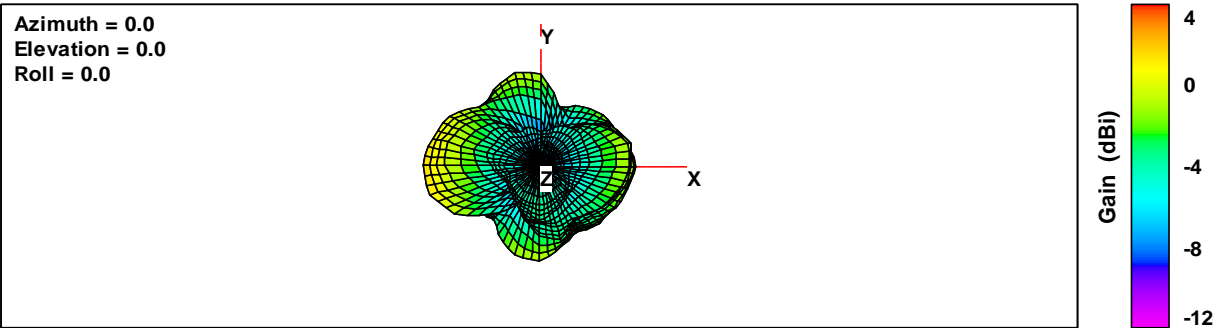
Vertical Polarization YZ Plane

5G 3D GAIN

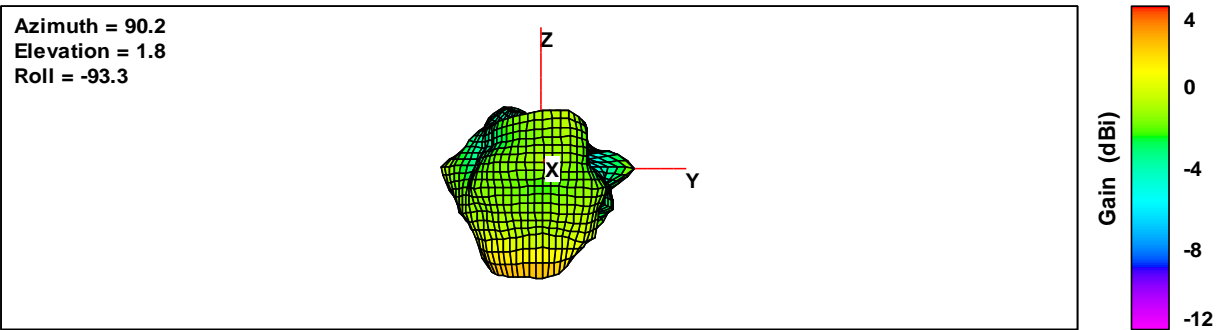


Flint Trace Antenna 3D Radiation Patterns

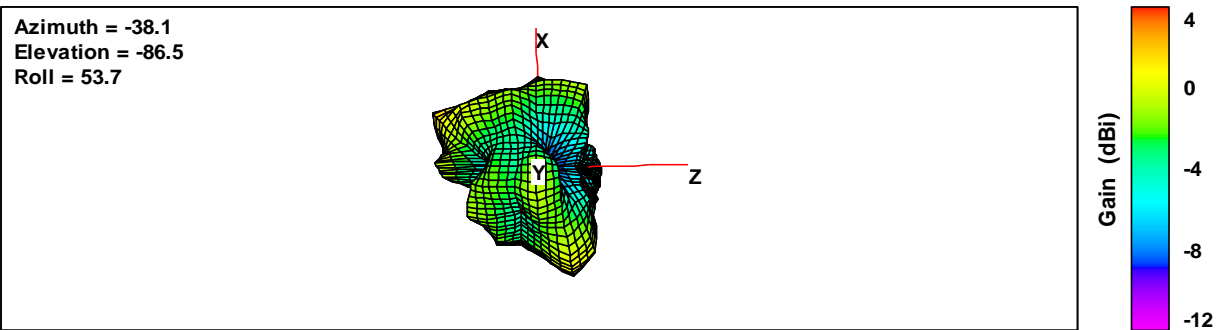
Total



Total



Total

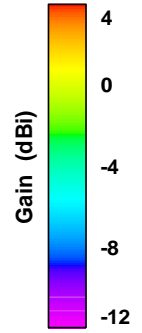
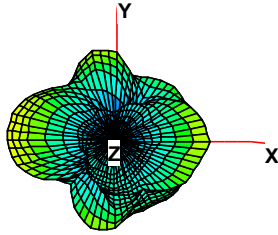


2400 MHz



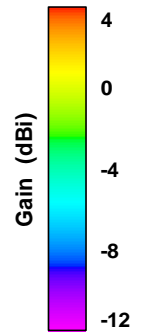
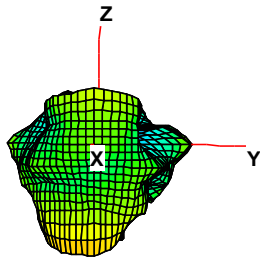
Total

Azimuth = 0.7
Elevation = -0.2
Roll = -2.3



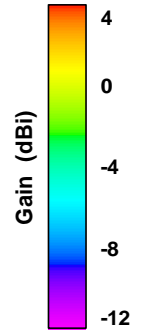
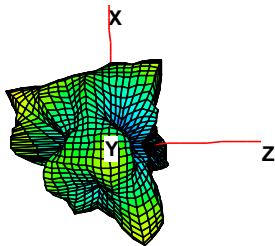
Total

Azimuth = 90.8
Elevation = -2.4
Roll = -89.4



Total

Azimuth = -38.1
Elevation = -86.5
Roll = 53.7

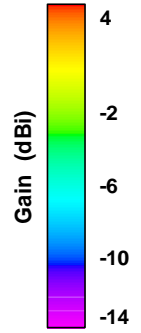
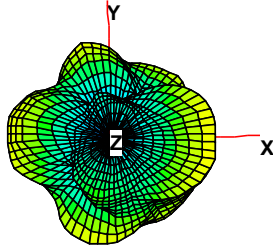


2440 MHz



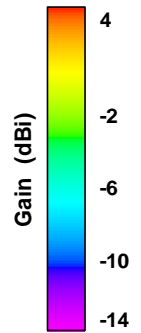
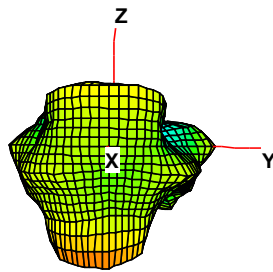
Total

Azimuth = -2.2
Elevation = 3.5
Roll = -0.7



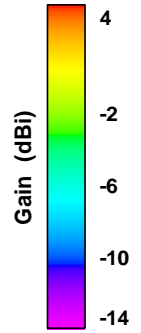
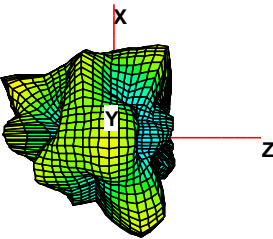
Total

Azimuth = 90.8
Elevation = -2.4
Roll = -89.4



Total

Azimuth = -11.4
Elevation = -79.4
Roll = 78.7

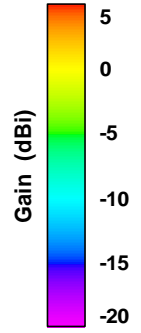
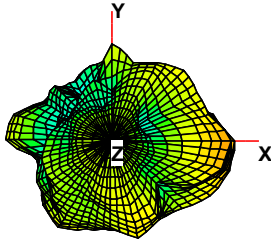


2500 MHz



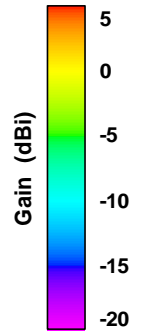
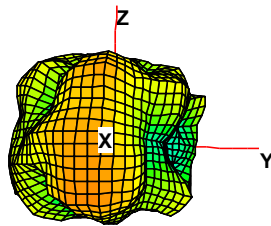
Total

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



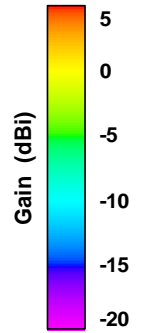
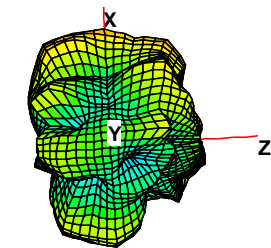
Total

Azimuth = 91.8
Elevation = -4.1
Roll = -95.1



Total

Azimuth = -7.5
Elevation = -82.6
Roll = 85.7

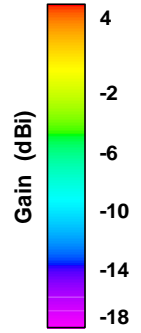
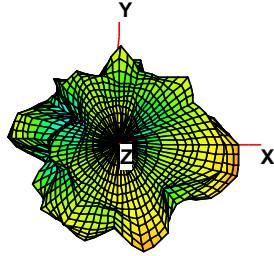


5150 MHz



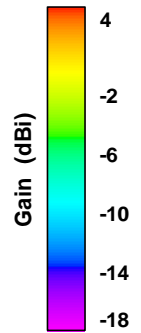
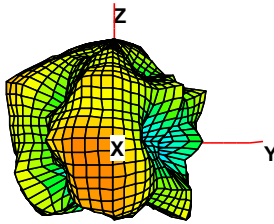
Total

Azimuth = 1.7
Elevation = -1.3
Roll = 2.0



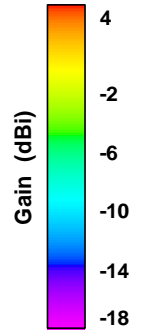
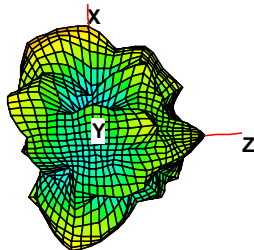
Total

Azimuth = 89.3
Elevation = -1.1
Roll = -92.1



Total

Azimuth = -7.5
Elevation = -82.6
Roll = 85.7

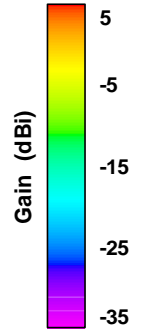
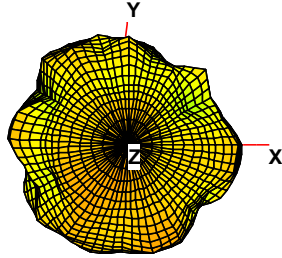


5550 MHz



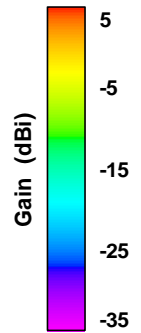
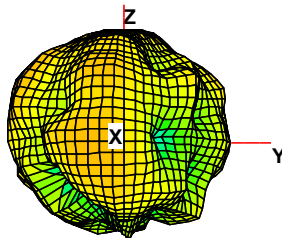
Total

Azimuth = 1.7
Elevation = -1.3
Roll = 2.0



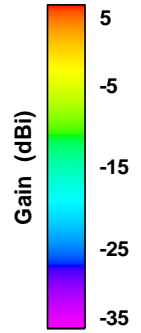
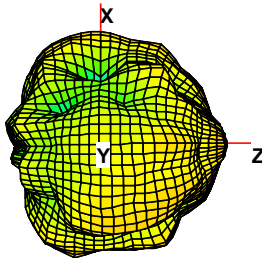
Total

Azimuth = 89.8
Elevation = -4.4
Roll = -96.2



Total

Azimuth = -69.9
Elevation = -88.3
Roll = 21.2



5850 MHz



Here is a picture of the Flint PCBA showing the PCB Trace antenna in the lower left corner of the board.

