

ANT Gain

SCS 800

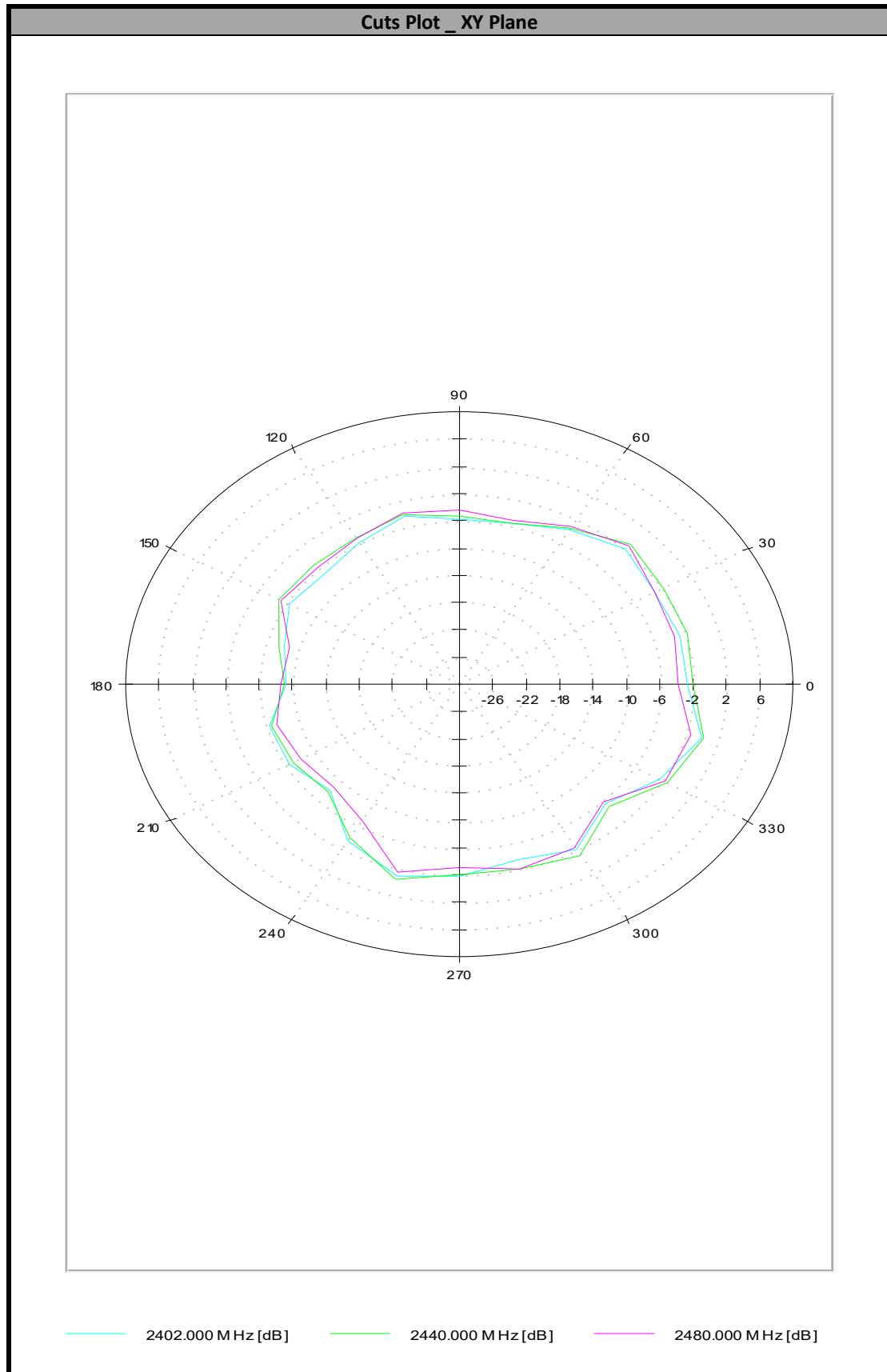
AoFrio Ltd.
78 Apollo Drive, Rosedale, Auckland 0632, New Zealand

➤ **Bluetooth LE ANT (PCB ANT)**

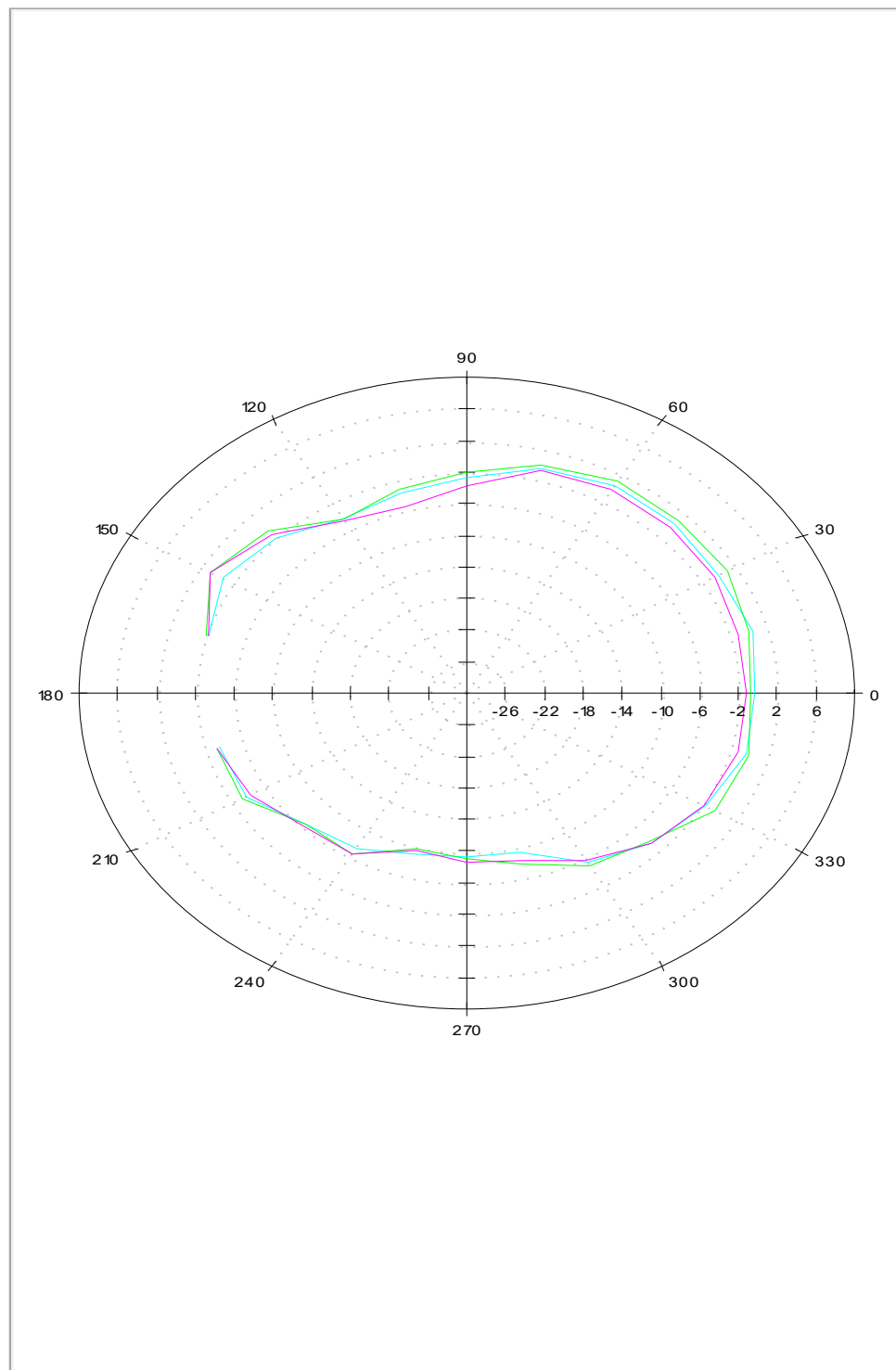
- Frequency Range: 2400-2500 MHz
- Max Gain: 1.56 dBi

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400.00	-2.73	53.31	1.18
2402.00	-2.72	53.50	1.19
2405.00	-2.74	53.16	1.17
2410.00	-2.39	57.69	1.47
2415.00	-2.57	55.38	1.31
2420.00	-2.43	57.09	1.37
2425.00	-2.58	55.18	1.27
2430.00	-2.49	56.38	1.40
2435.00	-2.50	56.22	1.38
2440.00	-2.26	59.37	1.52
2441.00	-2.20	60.22	1.56
2445.00	-2.20	60.25	1.47
2450.00	-2.30	58.91	1.34
2455.00	-2.33	58.42	1.20
2460.00	-2.45	56.83	1.02
2465.00	-2.73	53.33	0.79
2470.00	-2.89	51.39	0.62
2475.00	-2.94	50.84	0.71
2480.00	-3.17	48.20	0.60
2485.00	-3.36	46.14	0.45
2490.00	-3.61	43.57	0.28
2495.00	-3.59	43.74	0.32
2500.00	-4.02	39.64	0.03

- 2D Pattern

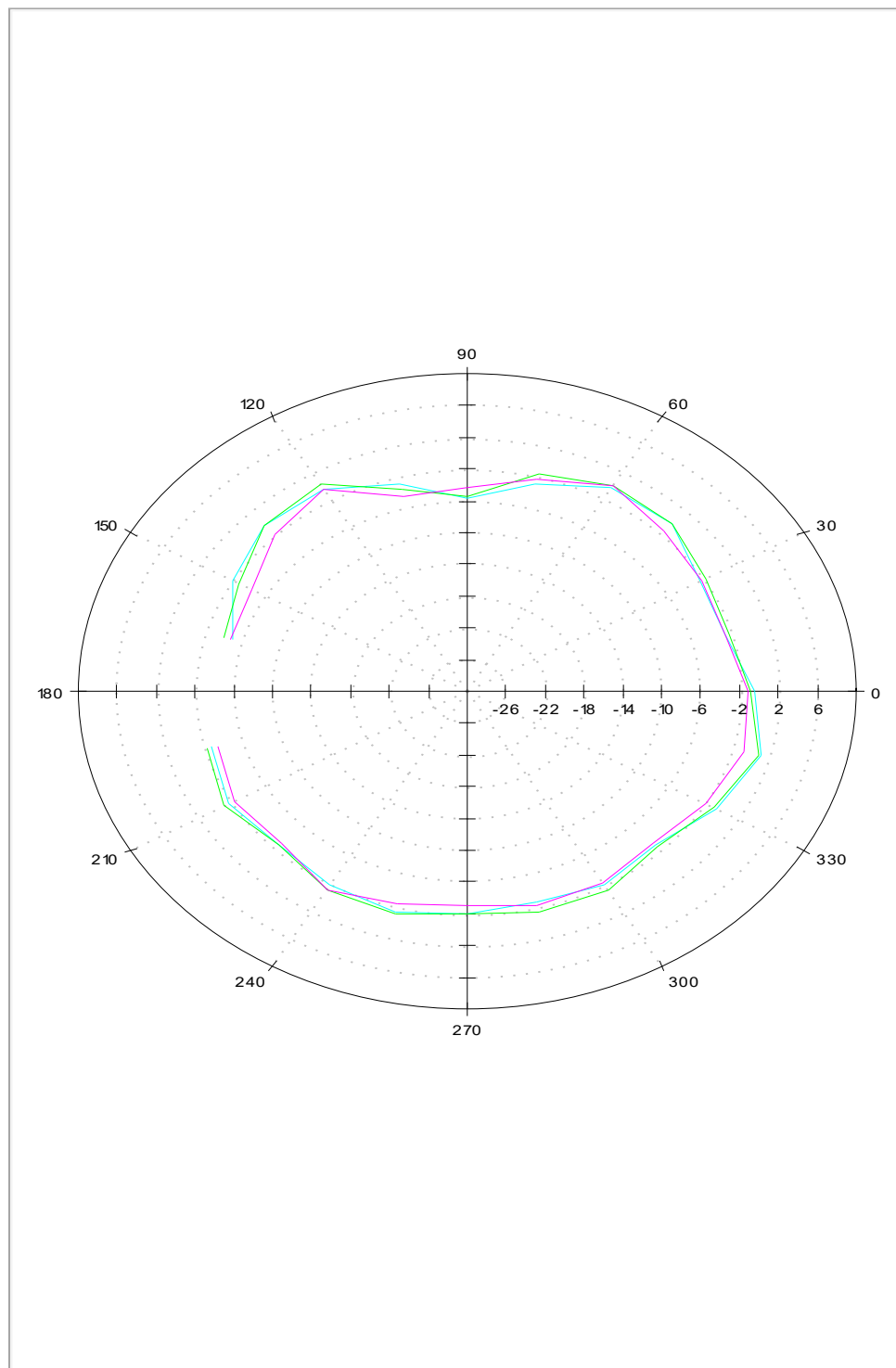


Cuts Plot _YZ Plane



2402.000 M Hz [dB] 2440.000 M Hz [dB] 2480.000 M Hz [dB]

Cuts Plot _ XZ Plane

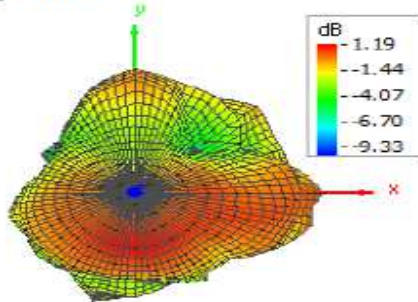


2402.000 MHz [dB] 2440.000 MHz [dB] 2480.000 MHz [dB]

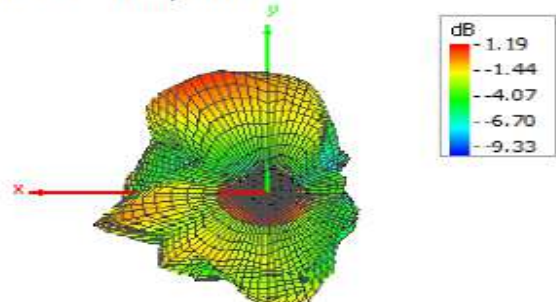
- 3D Pattern

Free Space_2402MHz

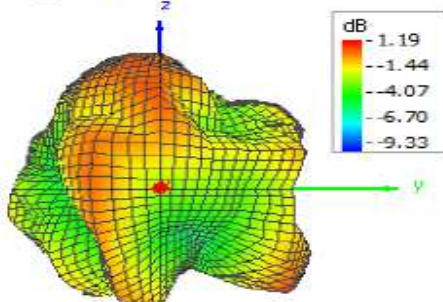
Theta = 0, Phi = 0



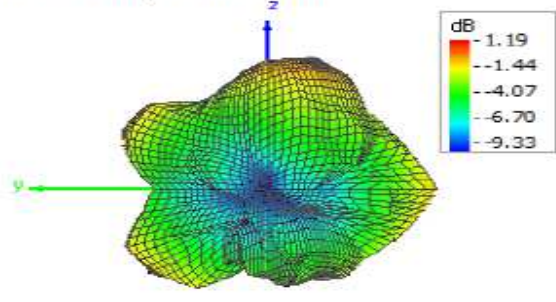
Theta = 180, Phi = 0



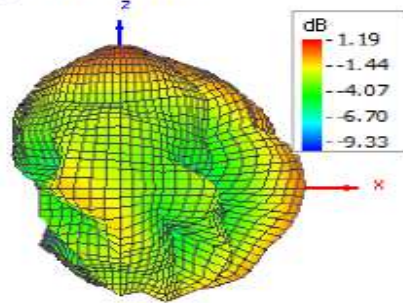
Theta = 90, Phi = 0



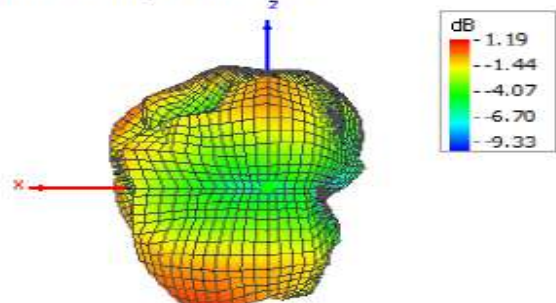
Theta = 90, Phi = 180



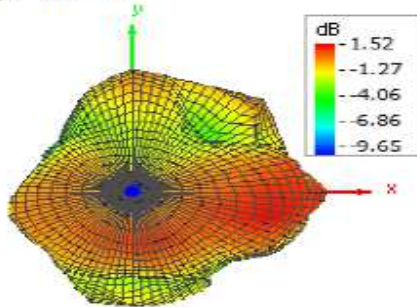
Theta = 90, Phi = 270



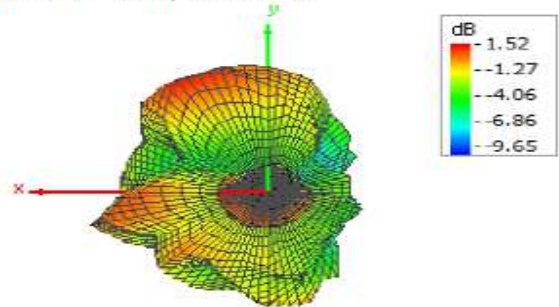
Theta = 90, Phi = 90



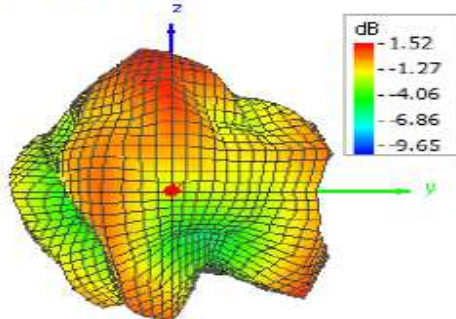
Theta = 0, Phi = 0



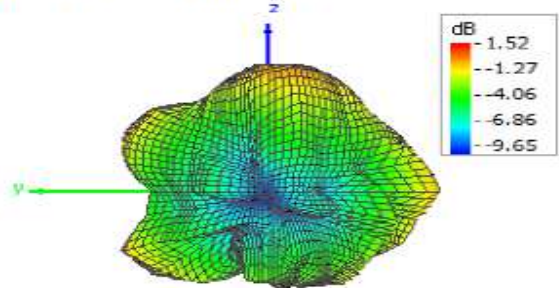
Theta = 180, Phi = 0



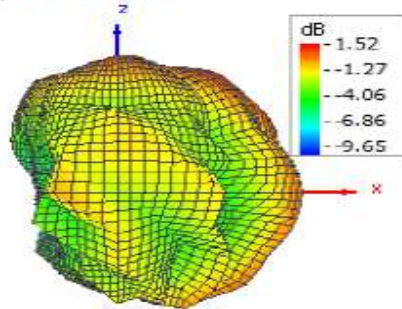
Theta = 90, Phi = 0



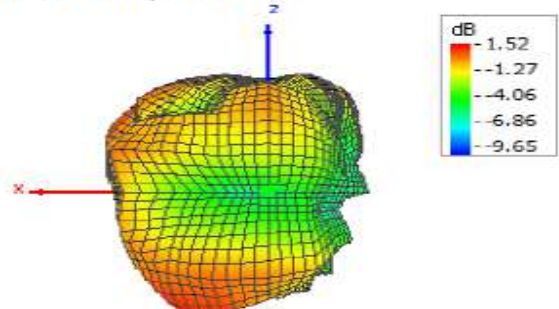
Theta = 90, Phi = 180



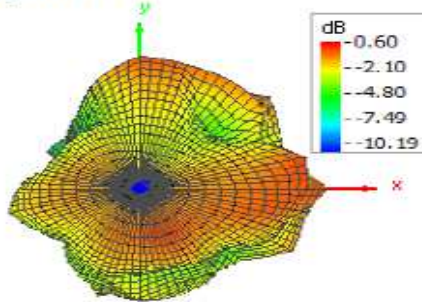
Theta = 90, Phi = 270



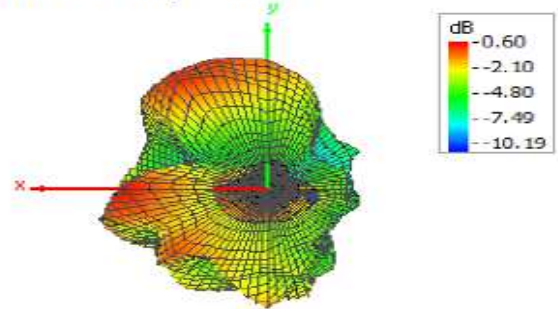
Theta = 90, Phi = 90



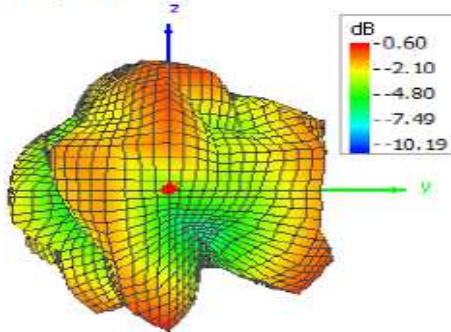
Theta = 0, Phi = 0



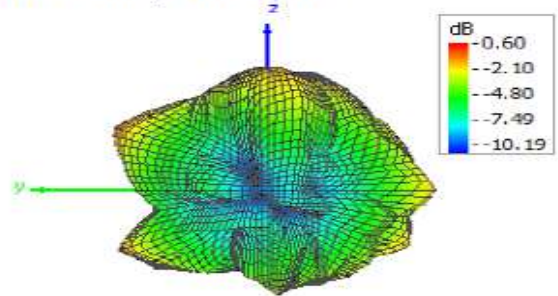
Theta = 180, Phi = 0



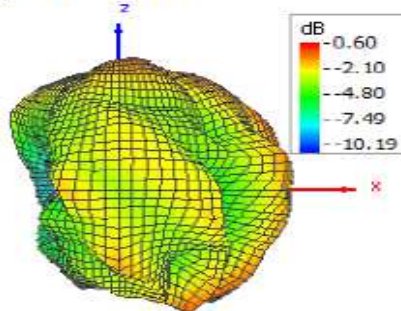
Theta = 90, Phi = 0



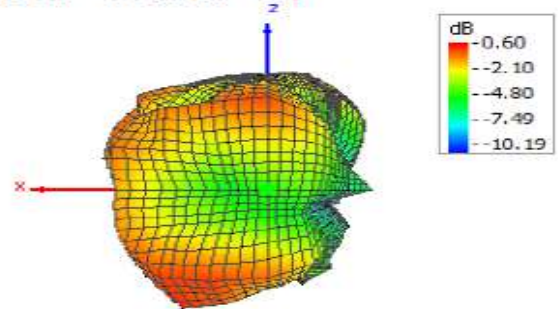
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90



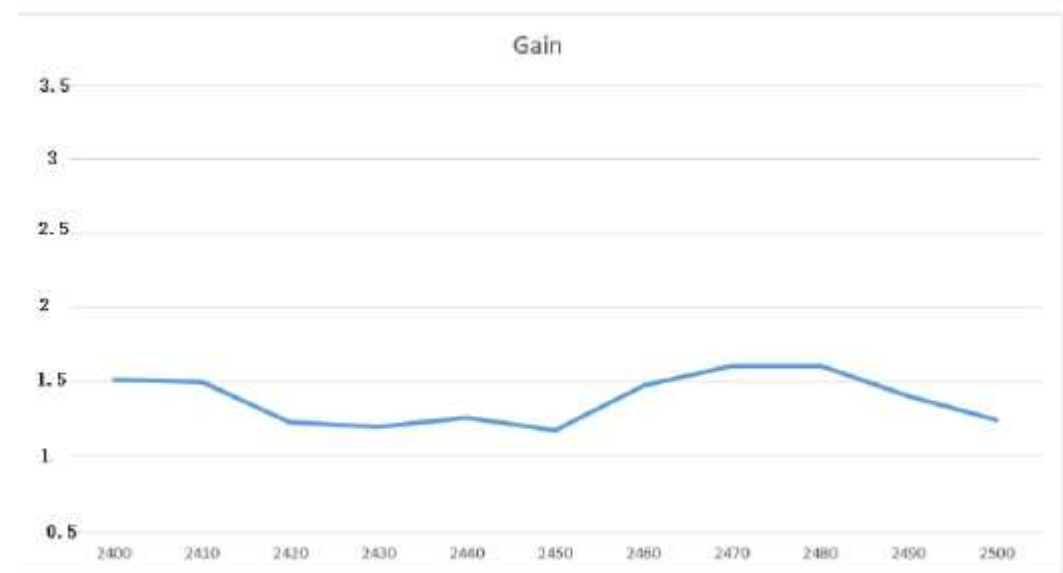
➤ 2.4G Wi-Fi ANT (FC41D PCB Antenna)

3 Product Specifications

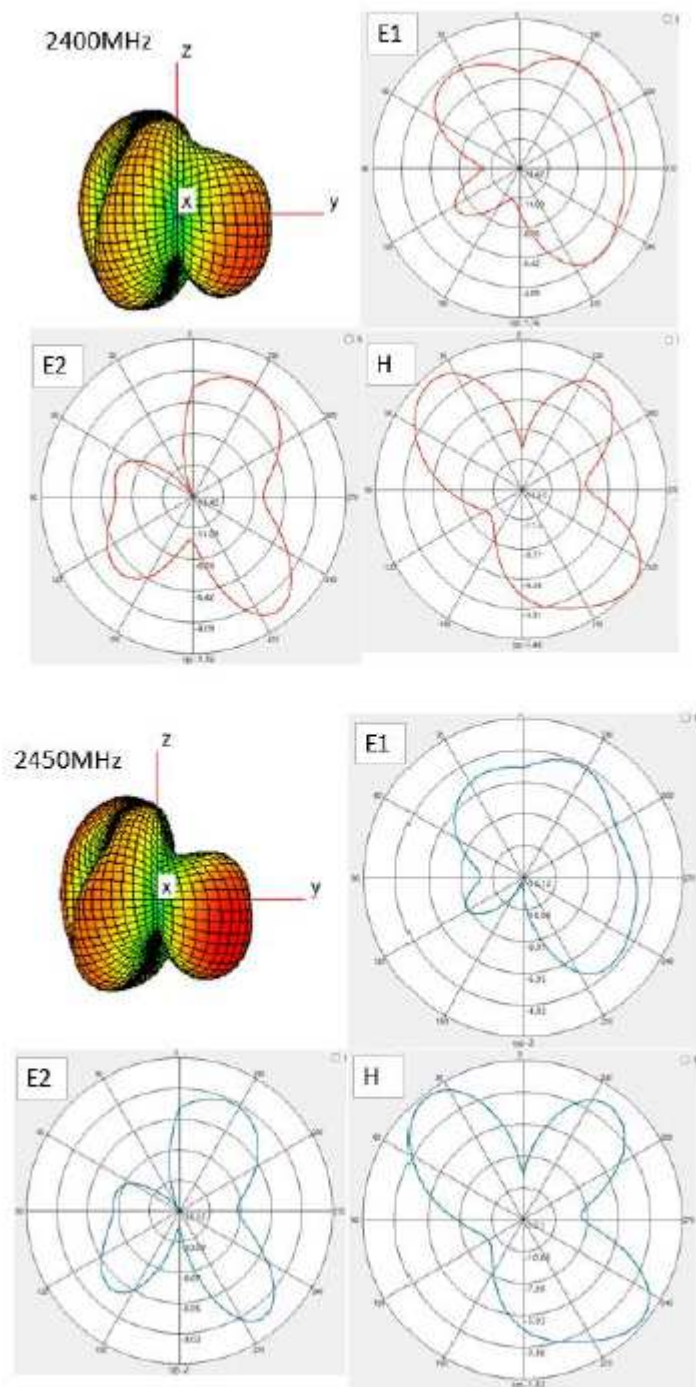
Passive Electrical Specifications	
Frequency Range	2400–2500 MHz
Input Impedence	50 Ω
VSWR	≤ 3.0
Gain	$\leq 2\text{dBi}$
Polarization Type	Linear

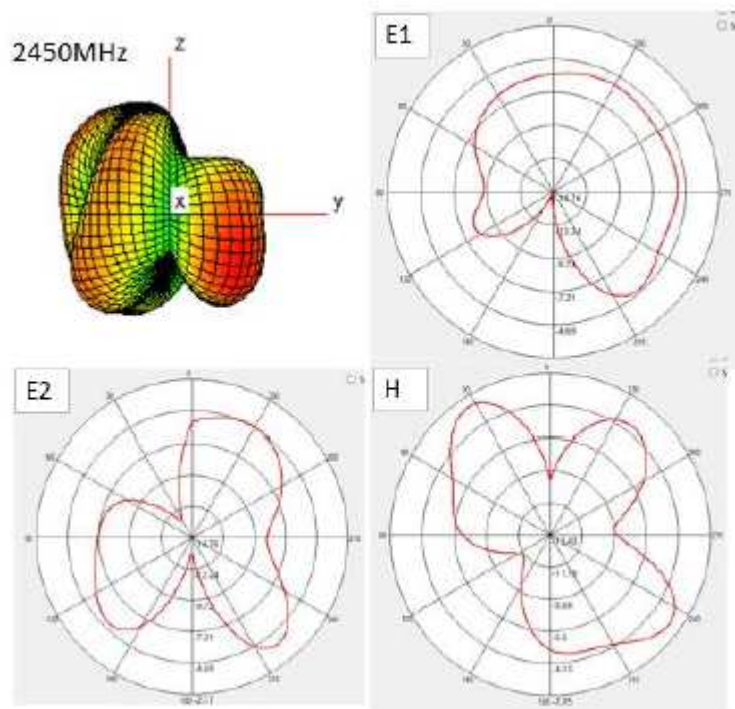
Detailed Passive Electrical Specifications	
Frequency Range (MHz)	2400–2500
VSWR (Max.)	2.7
Average Efficiency (%)	35
Max. Peak Gain (dBi)	2

4.4. Gain

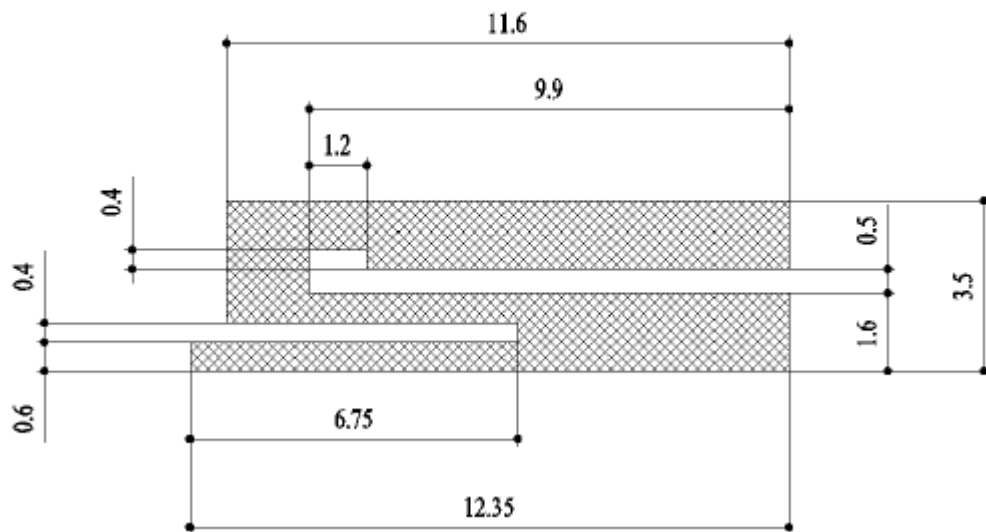


Frequency (MHz)	2400	2500
Gain (dBi)	1.6	1.2





5 Product Size (mm)



➤ LTE ANT



FEATURES & BENEFITS

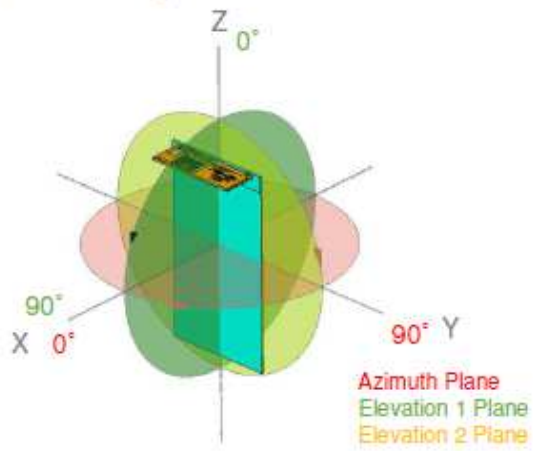
- Omnidirectional coverage
- Tab mounting with plated through holes
- Wide Band coverage for 3G, 4G and 5G with GNSS coverage
- Bandwidth and performance is dependent on ground plane size
Suggested minimum ground plane length from the antenna feed is 100 mm.

SPECIFICATIONS

Frequency Range (MHz)	698-960	1427-1661	1710-2700
VSWR	< 2 : 1	< 2 : 1	< 2 : 1
Average Efficiency	60%	66%	68%
Peak Gain	1.67dBi	2.13dBi	2.32dBi
Average Gain	-2.2dBi	-1.7 dBi	-1.6dBi
Power Handling	10 Watt cw		
Feed Point Impedance	50 ohms unbalanced		
Polarization	Linear		
Size	55 x 20 mm		
Weight	< 11g		
Mounting	Tab mounting with plated through holes		
Operating Temperature	-40 to +85°C		
Storage Temperature	-40 to +85°C		
Packaging Specification	Bag & Box		
Hazardous Materials	A certificate of conformance is available from the product page on TE website		
Data measured in free space and on reference ground plane of 110mm length and 65mm width. Application data may vary			

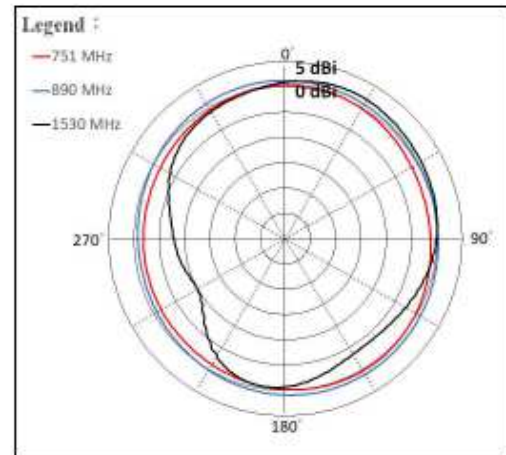
RADIATION PATTERN

Test setup

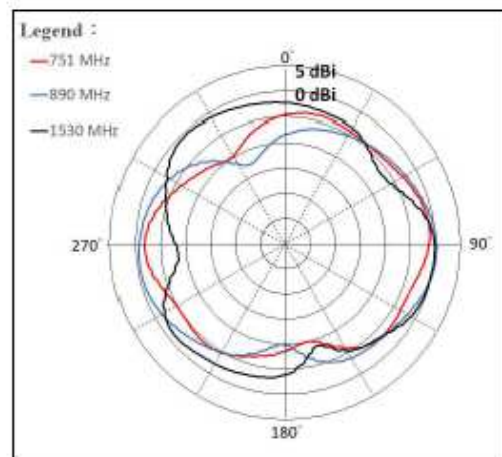
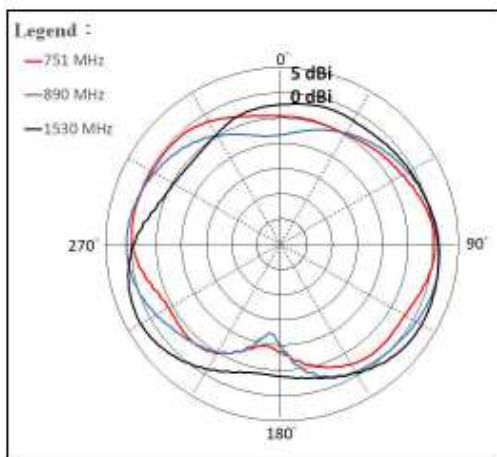


Elevation 1

Azimuth



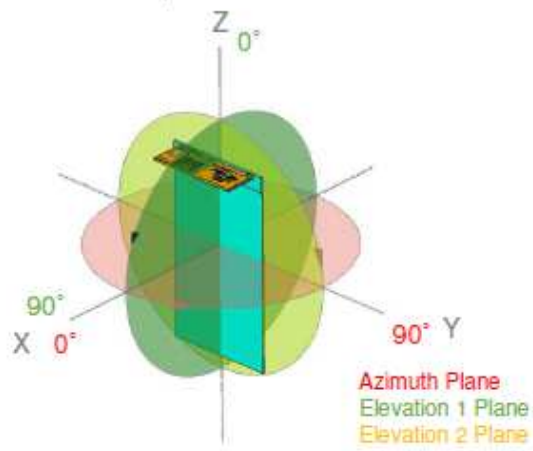
Elevation 2



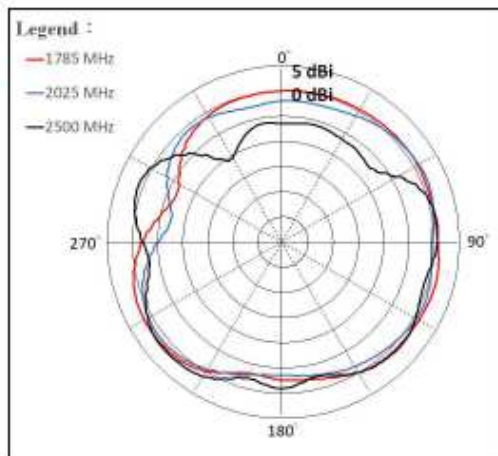
Data measured in free space and on reference ground plane of 110mm length and 65mm width.
Application data may vary

RADIATION PATTERN

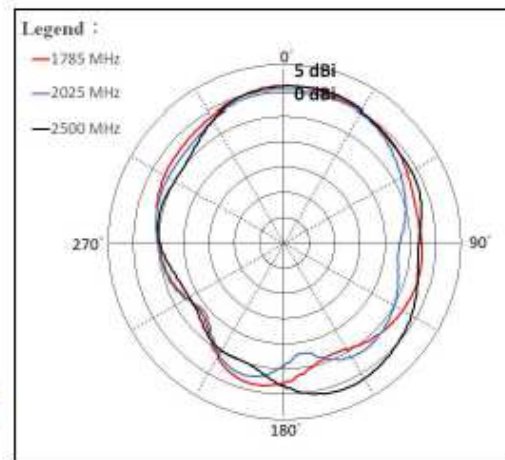
Test setup



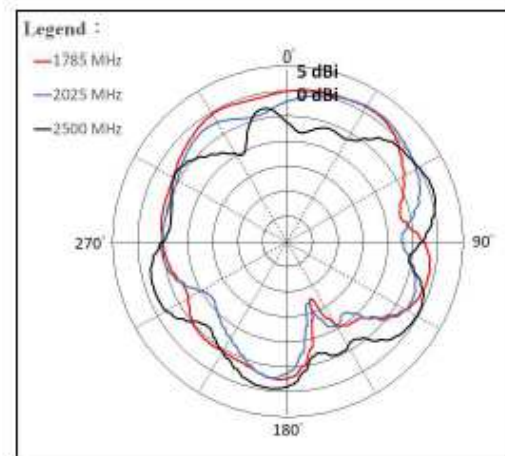
Elevation 1



Azimuth

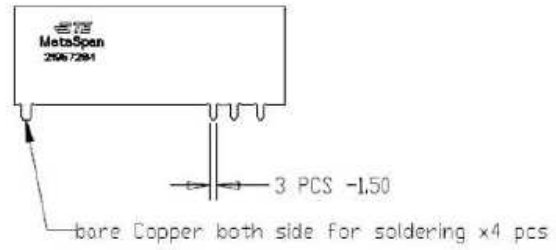
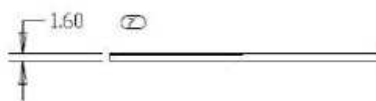
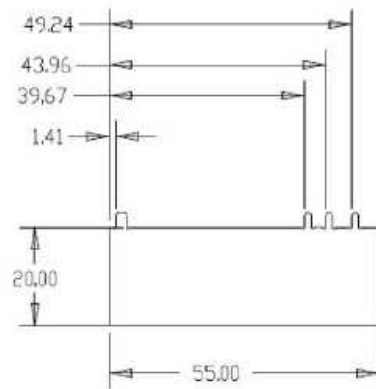


Elevation 2



Data measured in free space and on reference ground plane of 110mm length and 65mm width.
Application data may vary

DIMENSIONS



Dimensions : mm
Diagram is not to scale