



Antenna Datasheet

Product OC: YECT105W7AM

Version: 1.1

Date: 2025-12-29

Status: Released

Product Name: 5G Terminal Mount Rubber Dipole External Antenna

Key Features:

Frequency Band: 600–6000 MHz

Dimensions: 139 mm × 15.6 mm × 13 mm

Efficiency: Up to 70.7 % (EVB)

RoHS & REACH Compliant

Compatible with FAKRA, SMA and N-Type Connectors

Overview

YECT105W7AM is a 5G external antenna measuring 135 mm × 15.6 mm × 13 mm. This ultra-wide-band 5G antenna provides broad coverage from 600–6000 MHz whilst offering backward-compatibility to support 4G/3G and 2G networks as well as LTE Cat-M and narrowband IoT (NB-IoT). The antenna is terminated with TNC Male connector. Ideal for applications where the antenna is required to be discrete, this low profile, terminal mount omni-directional antenna, is easy to install with maximum durability assured thanks to PC + ABS enclosure.

The antenna is designed as dipole type to work with various GND plane sizes or in free space for ease of integration with a hinged TNC Male connector to achieve the optimum position. Hinged structure helps to avoid other antennas or objects by rotating to different directions when mounted on terminals. This omni-directional antenna is ideally suited for Gateways & Routers, Smart Metering, Vending Machines, Industrial IoT, Smart Home, Connected Enterprise, offering great performance with its high gain and efficiency.

Typical applications include:

- Gateways & Routers
- Smart Metering
- Vending Machines
- Industrial IoT
- Smart Home
- Connected Enterprise

Quectel provides comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs. We have regional R & D centers to offer quick response to meet your requirements. Please contact our sales & FAEs if you have any requests.

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1 Specification

Test Condition: On 130 mm × 70 mm EVB

1.1. Electrical

Electrical	
Frequency Range	600–6000 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional

Electrical – Detail												
SPEC	Band	B71	B12 /B13 /B28	B5 /B8 /B26	n74 /n75 /n76	B1 /B2 /B3	B40	Wi-Fi 2G	B38 /B41	B42 /B48 /n77	n79	Wi-Fi 5G
	Freq. (MHz)	600– 700	700– 810	820– 960	1420– 1520	1700– 2170	2300– 2400	2400– 2500	2500– 2690	3300– 4200	4400– 5000	5150– 5850
Max. VSWR	Straight	3.6	3.5	3.5	2.8	2.7	1.3	1.9	2.1	2.5	3.0	2.5
	Bent	4.5	3.2	3.3	2.6	2.1	1.5	2.2	2.3	2.4	2.7	2.4
Max. Return Loss (dB)	Straight	-4.9	-5.1	-5.1	-6.5	-6.8	-17.1	-10.2	-9.0	-7.3	-6.1	-7.4
	Bent	-3.9	-5.7	-5.4	-7.0	-9.1	-13.5	-8.5	-8.1	-7.7	-6.9	-7.6
AVG Eff. (%)	Straight	46.0	48.0	42.3	61.0	59.2	62.7	55.1	61.5	47.4	36.8	29.1
	Bent	55.5	59.9	50.4	57.5	62.9	63.9	56.9	59.1	56.4	39.4	20.2
AVG AVG Gain (dB)	Straight	-3.4	-3.2	-3.7	-2.1	-2.3	-2.0	-2.6	-2.1	-3.2	-4.3	-5.4
	Bent	-2.6	-2.2	-3.0	-2.4	-2.0	-1.9	-2.4	-2.3	-2.5	-4.0	-7.0
Max. Peak	Straight	1.4	1.7	1.5	2.5	4.6	4.1	3.8	3.6	4.5	3.3	3.3

Gain (dBi)	Bent	2.2	1.9	1.5	1.6	2.9	3.1	2.7	3.6	3.9	2.5	0.4
VSWR		Straight				≤ 3.6						
		Bent				≤ 4.5						
Return Loss		Straight				≤ -4.9 dB						
		Bent				≤ -3.9 dB						
Peak Gain		Straight				≤ 4.6 dBi						
		Bent				≤ 3.9 dBi						

Electrical – NTN Bands

SPEC \ Band		L Band	L Band	L Band	B256/B23	B256/B23
		1518–1559	1620–1665	1668–1675	1980–2020	2170–2200
Max. VSWR	Straight	1.4	2.6	2.7	1.5	1.5
	Bent	1.9	1.6	1.6	2.0	1.6
Max. Return Loss (dB)	Straight	-16.2	-7.0	-6.6	-13.3	-14.5
	Bent	-10.4	-12.8	-12.3	-9.6	-12.6
AVG Eff. (%)	Straight	67.0	54.0	51.5	56.6	65.9
	Bent	63.4	63.2	63.6	57.2	67.0
AVG AVG Gain (dB)	Straight	-1.7	-2.7	-2.9	-2.5	-1.8
	Bent	-2.0	-2.0	-2.0	-2.4	-1.7
Max. Peak Gain (dBi)	Straight	2.7	2.3	1.7	4.4	4.1
	Bent	1.7	1.9	1.7	2.4	2.9
VSWR	Straight	≤ 2.7				
	Bent	≤ 2.0				
Return Loss	Straight	≤ -6.6 dB				
	Bent	≤ -9.6 dB				
Peak Gain	Straight	≤ 4.4 dBi				
	Bent	≤ 2.9 dBi				

- Straight: The connector is vertical.
- Bent: The connector is bend.

1.2. Supported Bands

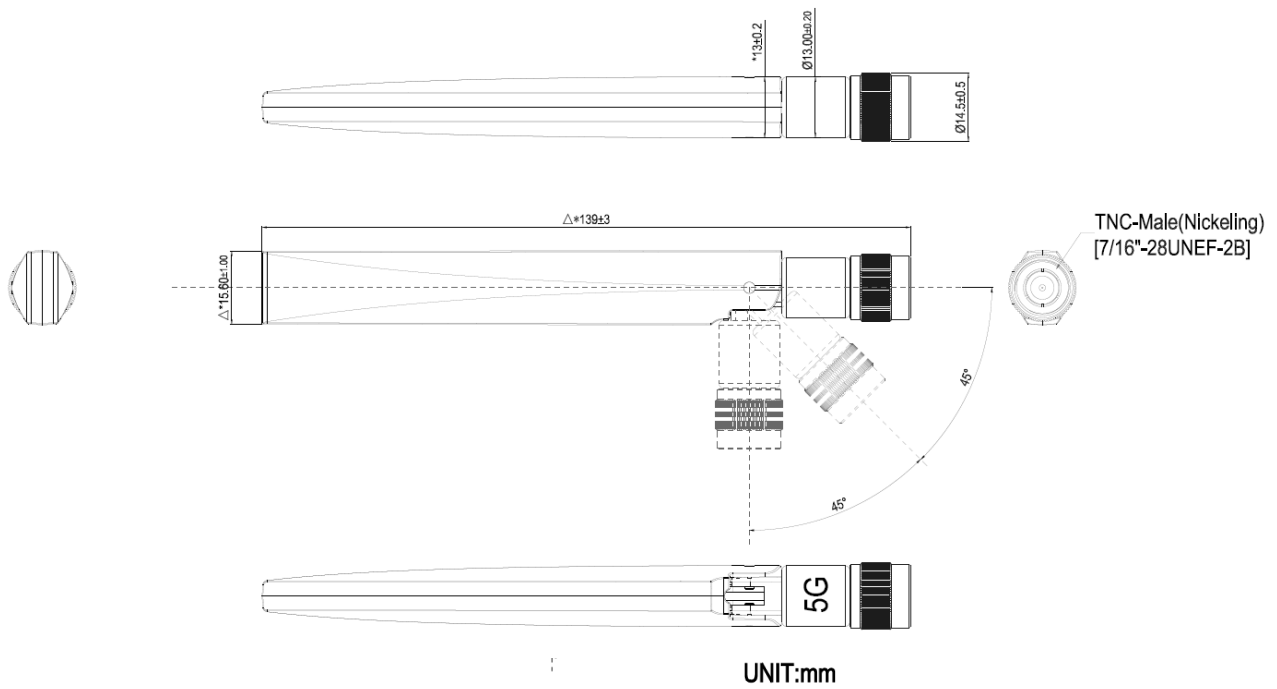
5G NR / LTE / LTE-Advanced / WCDMA / HSPA / HSPA+ / GPRS / GSM / NB-IoT					
Band	Frequency (MHz)	Uplink (MHz)	Downlink (MHz)	Straight	Bent
1	2100	1920–1980	2110–2170	√	√
2	1900	1850–1910	1930–1990	√	√
3	1800	1710–1785	1805–1880	√	√
4	1700	1710–1755	2110–2155	√	√
5	850	824–849	869–894	√	√
7	2600	2500–2570	2620–2690	√	√
8	900	880–915	925–960	√	√
9	1800	1749.9–1784.9	1844.9–1879.9	√	√
11	1500	1427.9–1447.9	1475.9–1495.9	√	√
12	700	699–716	729–746	√	√
13	700	777–787	746–756	√	√
14	700	788–798	758–768	√	√
17	700	704–716	734–746	√	√
18	850	815–830	860–875	√	√
19	850	830–845	875–890	√	√
20	800	832–862	791–821	√	√
21	1500	1447.9–1462.9	1495.9–1510.9	√	√
22	3500	3410–3490	3510–3590	√	√
23	2100	2000–2020	2180–2200	√	√
24	1600	1626.5–1660.5	1525–1559	-	-
25	1900	1850–1915	1930–1995	√	√
26	850	814–849	859–894	√	√

5G NR / LTE / LTE-Advanced / WCDMA / HSPA / HSPA+ / GPRS / GSM / NB-IoT					
Band	Frequency (MHz)	Uplink (MHz)	Downlink (MHz)	Straight	Bent
28	700	703–748	758–803	√	√
31	450	452.5–457.5	462.5–467.5	-	-
34	2100	2010–2025		√	√
38	2600	2570–2620		√	√
39	1900	1880–1920		√	√
40	2300	2300–2400		√	√
41	2500	2496–2690		√	√
42	3500	3400–3600		√	√
48	3500	3550–3700		√	√
66	1700	1710–1780	2110–2200	√	√
71	600	663–698	617–652	√	√
74	1500	1427–1470	1475–1518	√	√
77	3500	3300–4200		√	√
78	3500	3300–3800		√	√
79	4500	4400–5000		√	√

1.3. Mechanical & Environmental

Mechanical	
Antenna Dimensions	139 mm × 15.6 mm × 13 mm
Material & Color	PC + ABS & Black
Connector Type	TNC Male
Mounting Type	Terminal
Weight	Typ. 37 g
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Ingress Protection (IP) Rating	IP67 (After Installation)
RoHS and REACH Compliant	Yes

2 Drawing

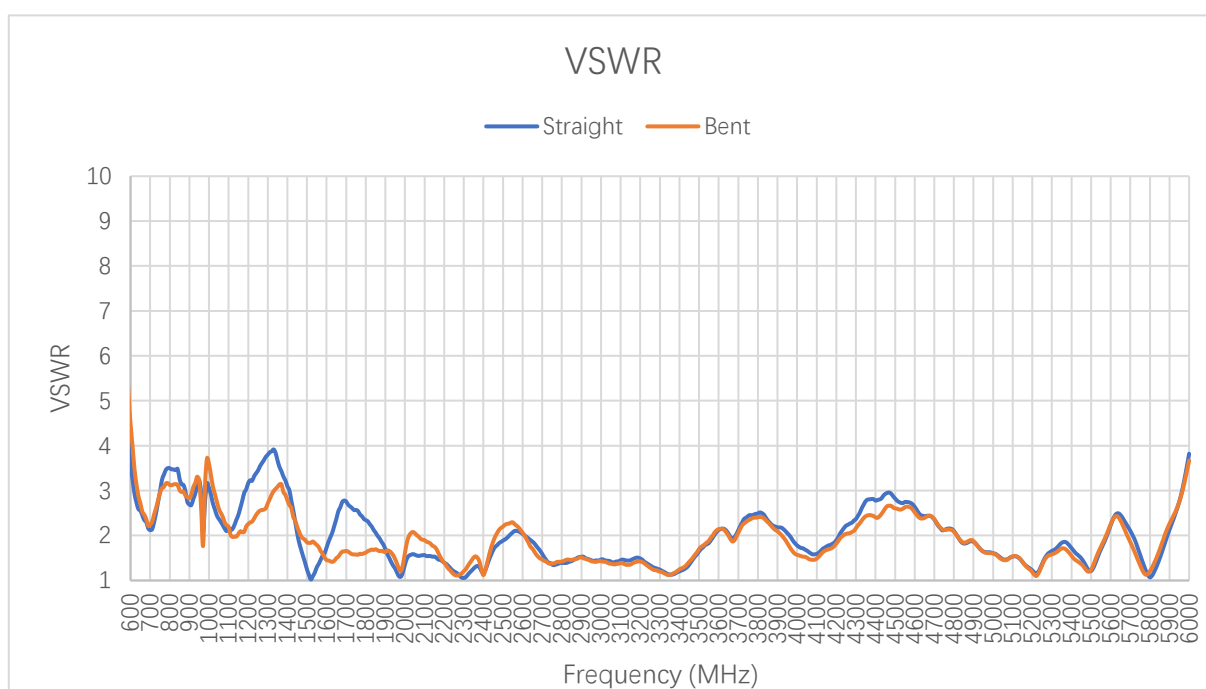


Note: If you use a torque wrench, the recommended force for mounting the antenna is 0.9Nm and the maximum torque to prevent antenna damage is 1.17Nm.

3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR



VSWR

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Straight	3.6	2.7	2.1	3.5	2.7	3.0	2.3	2.7	2.6	1.9
Bent	4.5	3.1	2.3	3.1	2.8	2.6	2.3	1.6	1.6	1.7
Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
Straight	1.3	1.5	1.3	1.7	2.0	2.1	2.4	1.6	1.2	3.8
Bent	1.5	1.8	1.5	1.9	2.1	2.1	2.4	1.6	1.2	3.7

VSWR – NTN Bands

Frequency (MHz)	1520	1560	1630	1680	2000	2200
Straight	1.0	1.4	2.1	2.7	1.4	1.4
Bent	1.8	1.7	1.4	1.6	1.6	1.4

3.1.2. Return Loss



Return Loss (dB)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Straight	-4.9	-6.7	-8.8	-5.2	-6.8	-6.1	-8.1	-6.8	-7.1	-10.4
Bent	-3.9	-5.7	-8.1	-5.7	-6.4	-7.0	-8.0	-12.3	-13.0	-12.1

Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
Straight	-18.7	-13.6	-18.6	-11.9	-9.3	-8.9	-7.9	-12.7	-20.4	-4.7
Bent	-14.4	-11.1	-13.9	-10.4	-9.2	-8.8	-7.8	-12.7	-19.5	-4.9

Return Loss (dB) – NTN Bands

Frequency (MHz)	1520	1560	1630	1680	2000	2200
Straight	-39.7	-16.2	-9.1	-6.6	-16.3	-15.6
Bent	-10.6	-11.4	-15.3	-12.3	-12.5	-15.7

3.2. OTA Test Data

- Based on module: BG95-S5
- Test Condition: Assembled in test device

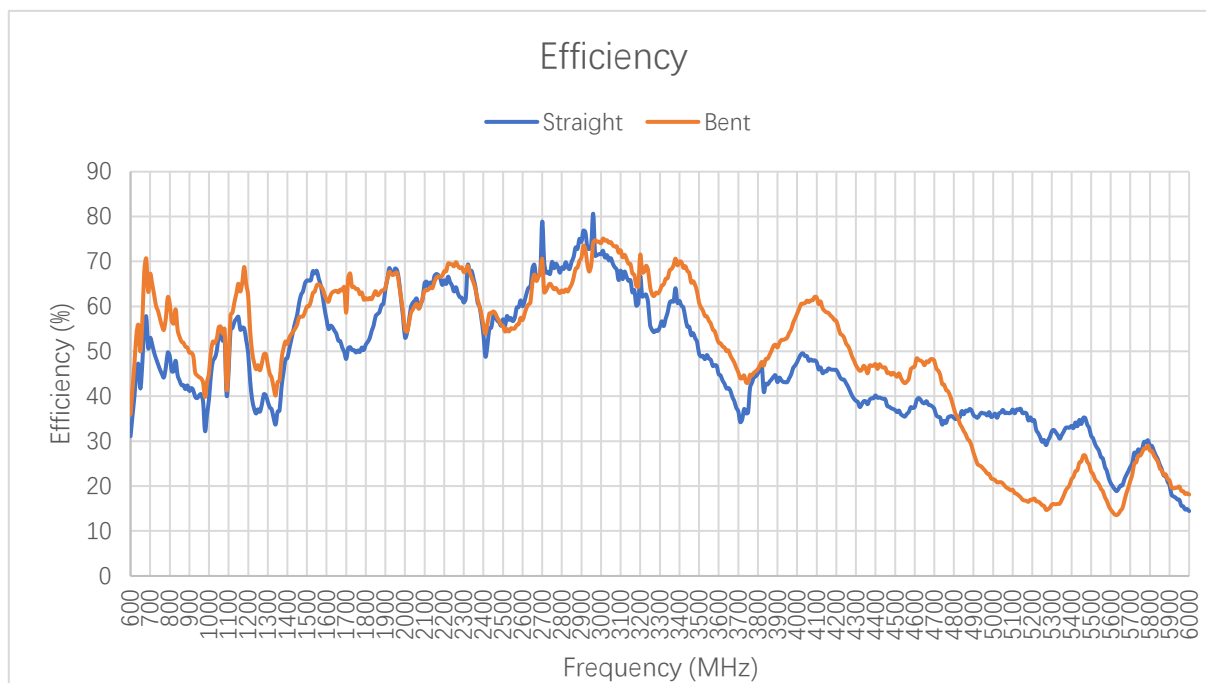
Band		Channel	TRP (dBm)	Channel	TIS (dBm)
LTE	B1 (10M)	18050	21.4		
		18350	20.94		
		18550	20.05	550	-105.49
	B2 (10M)	18650	20.6		
		18900	20.7		
		19150	20.91	1150	-106.12
	B3 (10M)	19250	20.68		
		19575	20.66		
		19900	19.78	1900	-106.72
	B4 (10M)	20000	20.01		
		20175	19.86		
		20350	19.85	2350	-105.64
	B5 (10M)	20450	21.75		
		20525	21.93		
		20600	21.27	2600	-106.03
	B7 (10M)	20800	-		
		21100	-		
		21400	-	3400	-
	B8 (10M)	21500	21.52		
		21625	20.87		
		21750	20.36	3750	-105.91

Band		Channel	TRP (dBm)	Channel	TIS (dBm)
	B12 (5M)	23035	18.49		
		23095	18.54		
		23155	19.03	5155	-104.6
	B13 (10M)	23230	21.83	5230	-103.92
	B18 (10M)	23900	21.78		
		23925	21.98		
		23950	21.32	5950	-106.07
	B19 (10M)	24050	-		
		24075	21.76		
		24100	-	6100	-106.29
	B20 (10M)	24200	21.72		
		24300	21.54		
		24400	21.46	6400	-105.19
	B25 (5M)	26065	20.58		
		26365	20.67		
		26665	21.06	8665	-105.79
	B26 (5M)	26715	21.52		
		26865	21.68		
		27015	21.73	9015	-106.28
	B27 (10M)	27090	21.32		
		27125	21.38		
		27160	21.37	9160	-106.5
	B28 (10M)	27260	17.31		
		27435	18.22		
		27610	18.97	9610	-101.1

Band		Channel	TRP (dBm)	Channel	TIS (dBm)
	B28A (10M)	27260	17.36		
		27360	18.02		
		27460	18.15	9460	-100.21
	B28B (10M)	27410	18.13		
		27510	18.34		
		27610	18.36	9610	-100.32
	B66 (10M)	132022	20.7		
		132322	20.49		
		132622	20.23	67086	-106.79
	B85 (10M)	134052	17.99		
		134092	18.33		
		134132	18.86	70496	-100.77

3.3. Radiation Performance Test

3.3.1. Efficiency



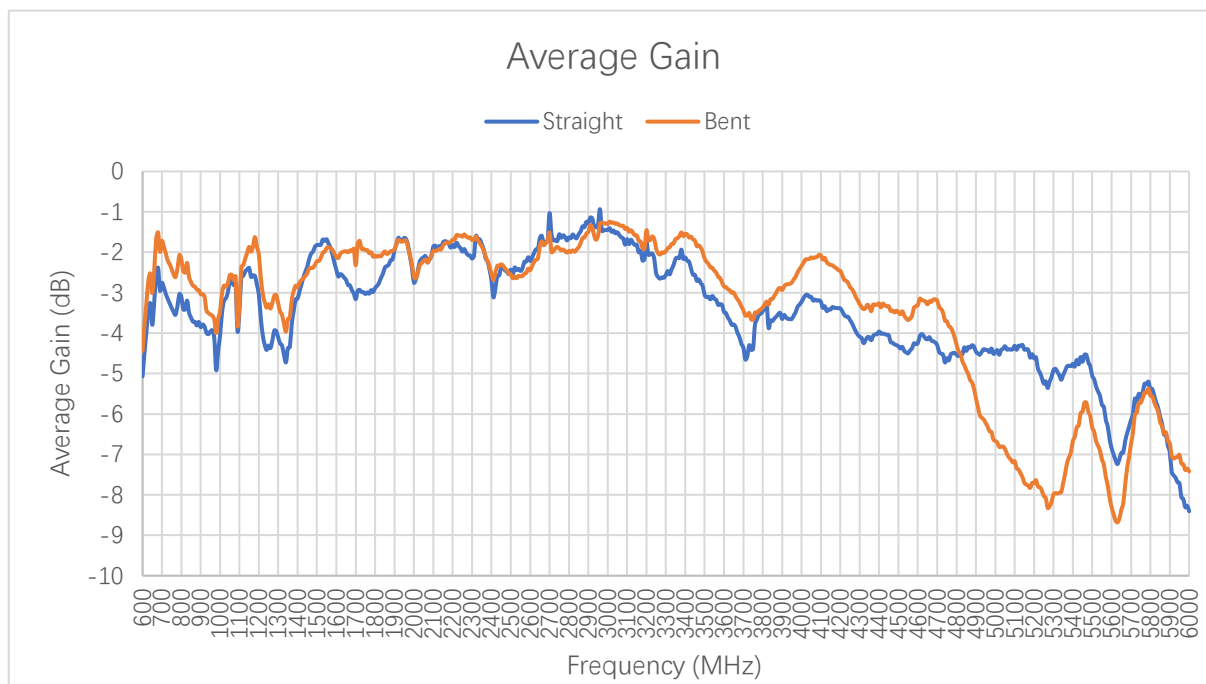
Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Straight	31.1	45.6	51.6	47.9	41.2	40.4	58.1	50.6	50.3	60.3
Bent	36.0	53.7	65.1	59.4	49.7	44.0	56.0	66.2	64.4	63.5
Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
Straight	68.5	64.5	66.1	57.8	60.0	44.9	37.2	35.6	31.2	14.4
Bent	67.4	64.1	65.2	58.9	57.0	51.9	47.9	21.5	23.2	18.1

Efficiency (%) – NTN Bands

Frequency (MHz)	1520	1560	1630	1680	2000	2200
Straight	65.9	66.2	55.4	50.8	53.1	65.8
Bent	61.1	64.9	63.1	63.5	54.9	67.8

3.3.2. Average Gain



Average Gain (dB)

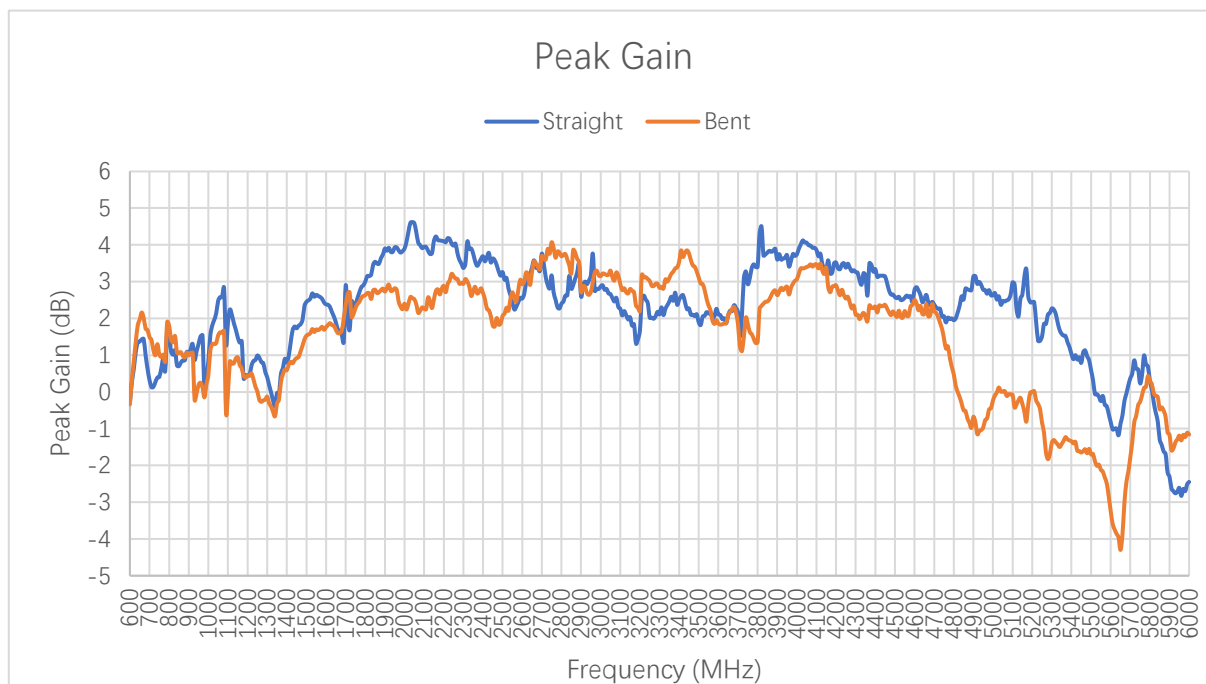
Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Straight	-5.1	-3.4	-2.9	-3.2	-3.9	-3.9	-2.4	-3.0	-3.0	-2.2
Bent	-4.4	-2.7	-1.9	-2.3	-3.0	-3.6	-2.5	-1.8	-1.9	-2.0

Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
Straight	-1.6	-1.9	-1.8	-2.4	-2.2	-3.5	-4.3	-4.5	-5.1	-8.4
Bent	-1.7	-1.9	-1.9	-2.3	-2.4	-2.8	-3.2	-6.7	-6.3	-7.4

Average Gain (dB) – NTN Bands

Frequency (MHz)	1520	1560	1630	1680	2000	2200
Straight	-1.8	-1.8	-2.6	-2.9	-2.7	-1.8
Bent	-2.1	-1.9	-2.0	-2.0	-2.6	-1.7

3.3.3. Peak Gain



Peak Gain (dBi)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
Straight	-0.3	1.1	0.1	1.1	1.0	1.5	1.7	2.0	2.3	3.6
Bent	-0.3	1.4	1.4	1.5	1.0	0.3	0.9	2.7	2.1	2.8

Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
Straight	3.9	3.8	3.8	3.6	2.5	2.1	2.4	2.6	0.6	-2.5
Bent	2.8	2.3	2.7	1.8	2.9	1.9	2.2	-0.2	-1.7	-1.2

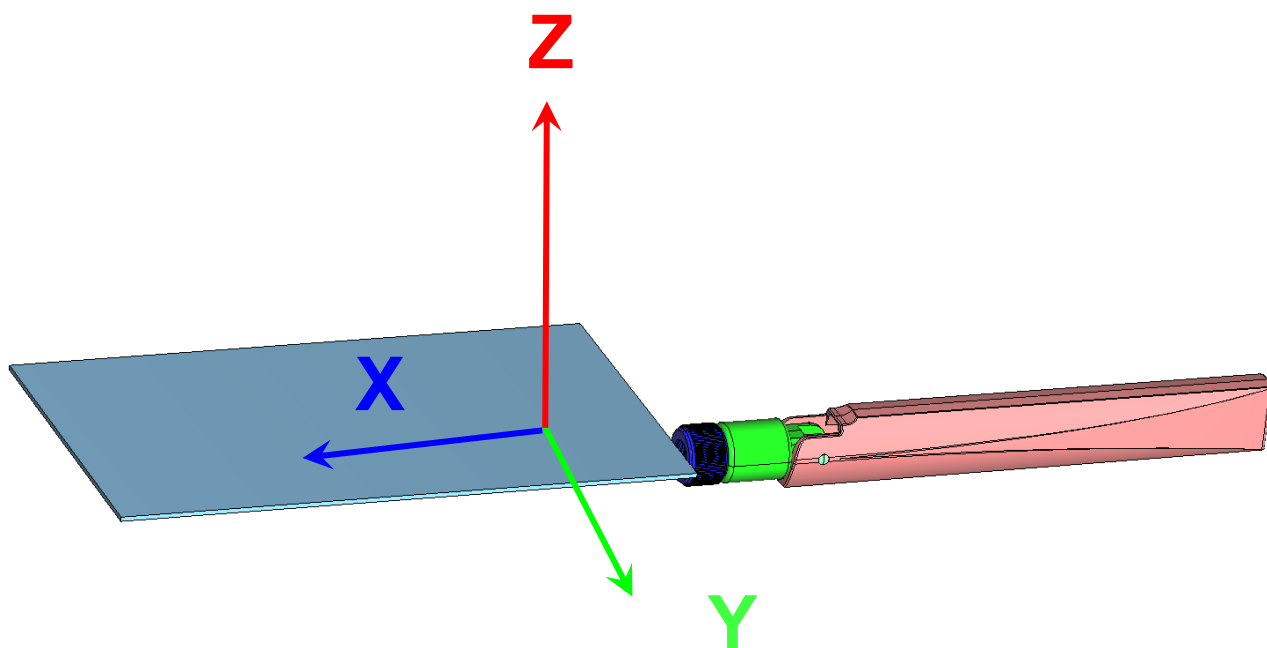
Peak Gain (dBi) – NTN Bands

Frequency (MHz)	1520	1560	1630	1680	2000	2200
Straight	2.5	2.6	2.2	1.6	3.9	4.1
Bent	1.6	1.7	1.8	1.7	2.4	2.9

3.3.4. 3D & 2D Radiation Pattern

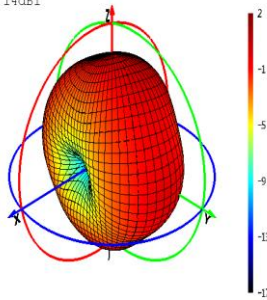
3.3.4.1. Test Condition: On 130 mm × 70 mm EVB and Straight

- Test Chamber: FS-S-1

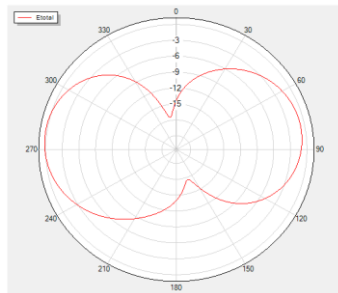


630 MHz

MAX:1.09dBi
MIN:-18.14dBi

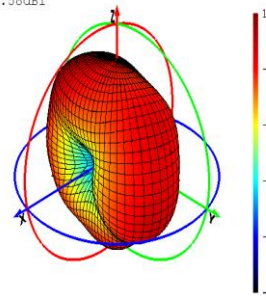


Theta=90 Freq=630MHz

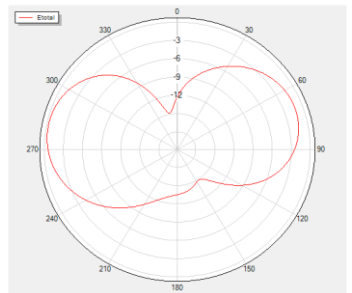


710 MHz

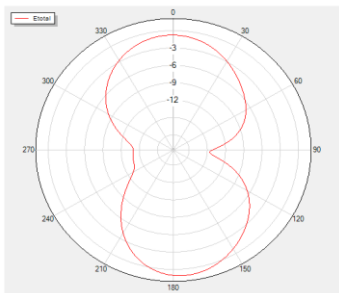
MAX:0.13dBi
MIN:-16.58dBi



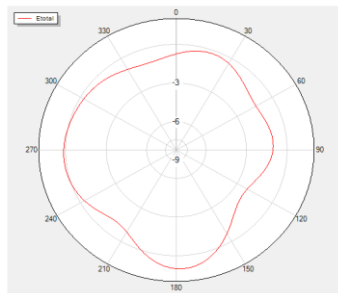
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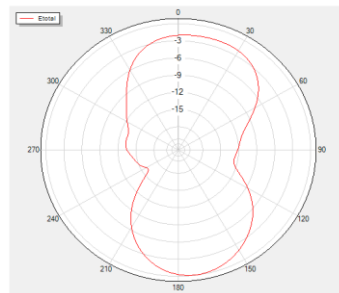
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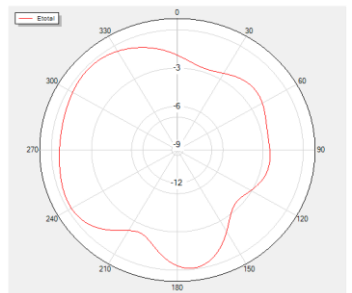
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Phi=0 Freq=710MHz

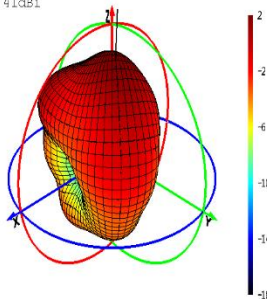


Phi=90 Freq=710MHz

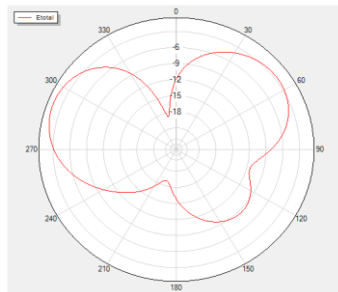


830 MHz

MAX:1.13dBi
MIN:-19.41dBi

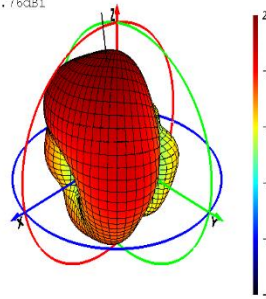


Theta=90 Freq=830MHz

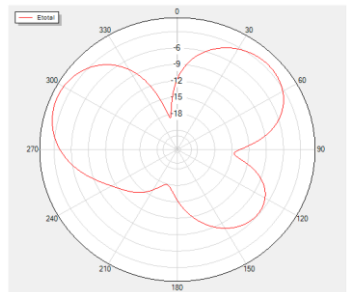


900 MHz

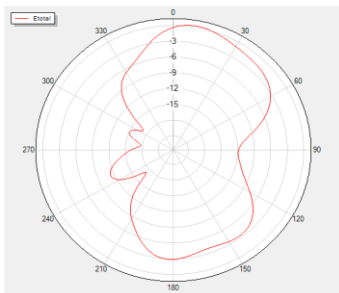
MAX:1dBi
MIN:-22.76dBi



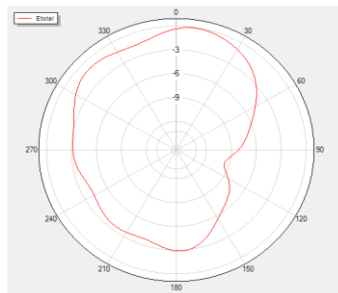
Theta=90 Freq=900MHz



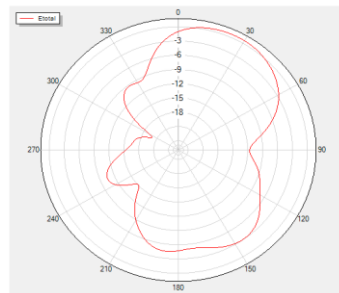
Phi=0 Freq=830MHz



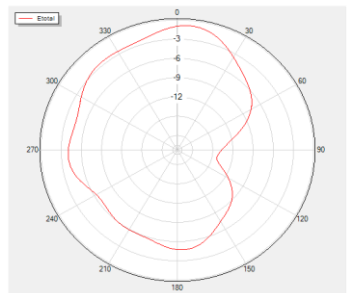
Phi=90 Freq=830MHz



Phi=0 Freq=900MHz

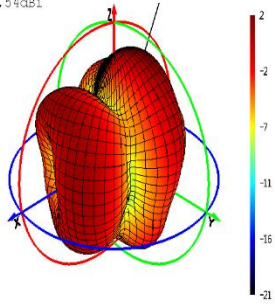


Phi=90 Freq=900MHz

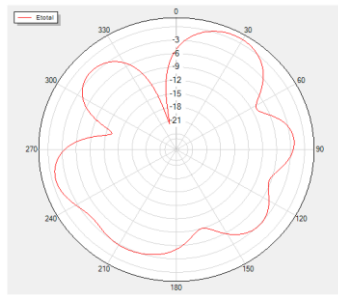


1440 MHz

MAX:1.76dBi
MIN:-21.54dBi

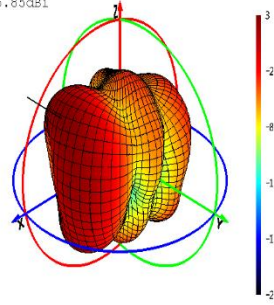


Theta=90 Freq=1440MHz

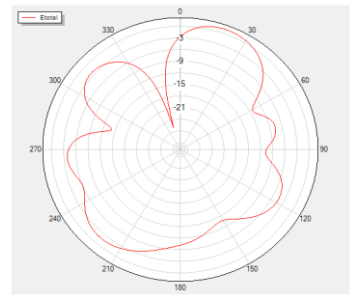


1740 MHz

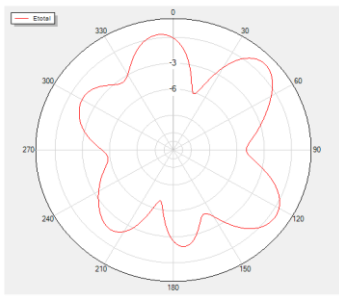
MAX:2.3dBi
MIN:-25.85dBi



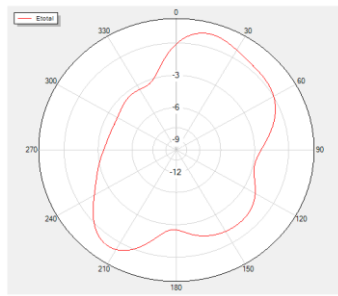
Theta=90 Freq=1740MHz



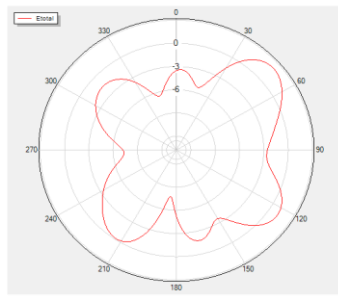
Phi=0 Freq=1440MHz



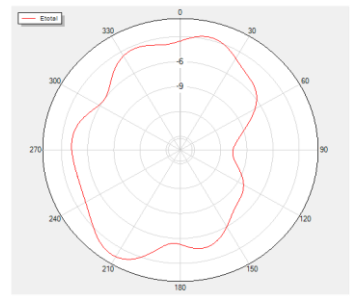
Phi=90 Freq=1440MHz



Phi=0 Freq=1740MHz

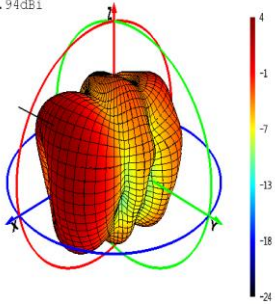


Phi=90 Freq=1740MHz

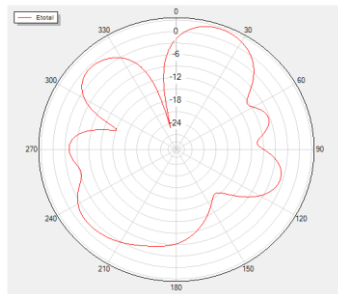


1880 MHz

MAX:3.64dBi
MIN:-24.94dBi

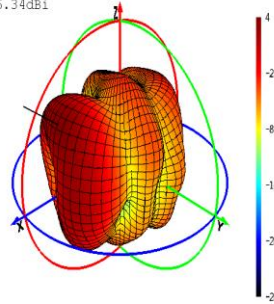


Theta=90 Freq=1880MHz

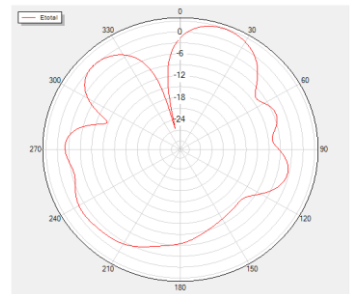


1950 MHz

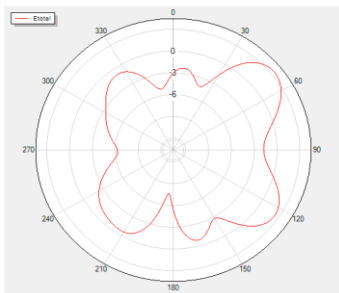
MAX:3.93dBi
MIN:-26.34dBi



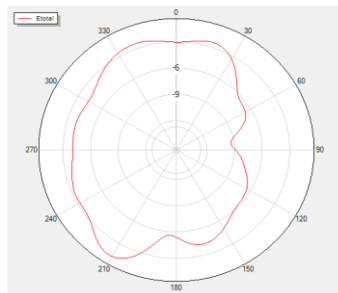
Theta=90 Freq=1950MHz



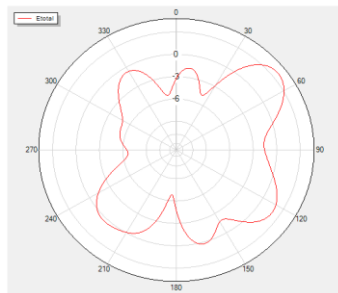
Phi=0 Freq=1880MHz



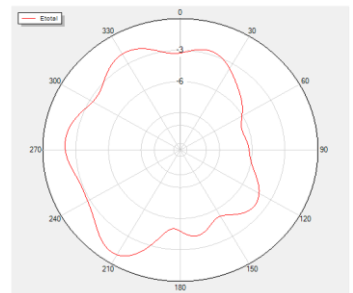
Phi=90 Freq=1880MHz



Phi=0 Freq=1950MHz

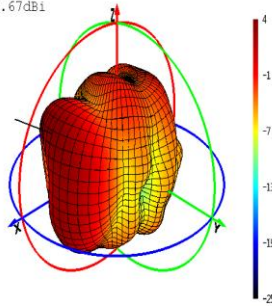


Phi=90 Freq=1950MHz

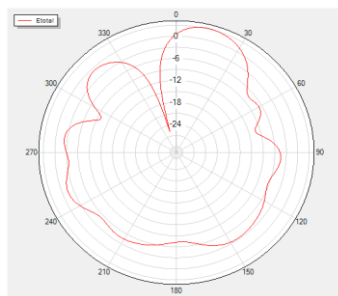


2140 MHz

MAX:3.77dBi
MIN:-25.67dBi

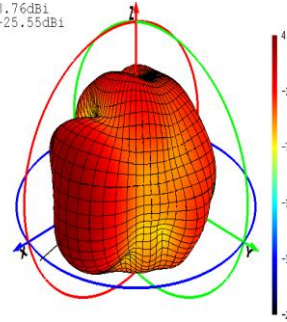


Theta=90 Freq=2140MHz

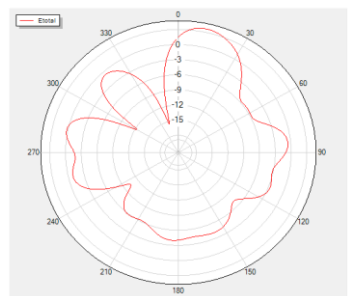


2350 MHz

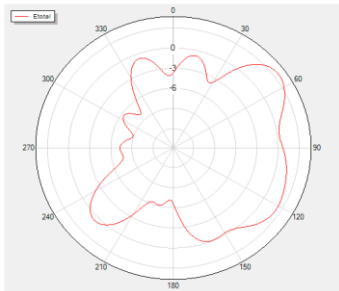
MAX:3.76dBi
MIN:-25.55dBi



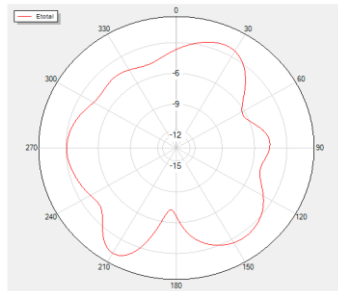
Theta=90 Freq=2350MHz



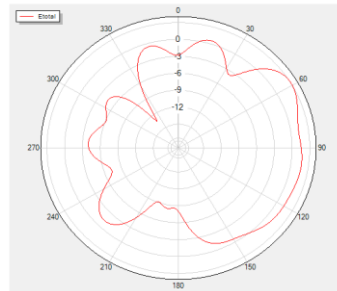
Phi=0 Freq=2140MHz



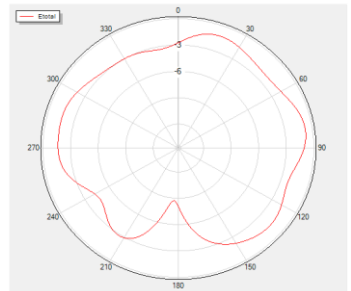
Phi=90 Freq=2140MHz



Phi=0 Freq=2350MHz

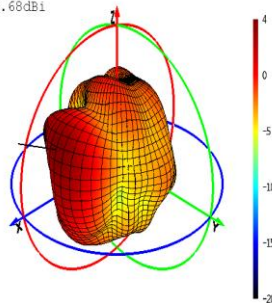


Phi=90 Freq=2350MHz

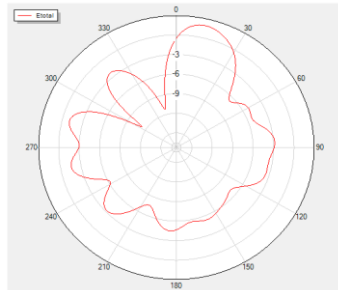


2450 MHz

MAX:3.63dBi
MIN:-20.68dBi

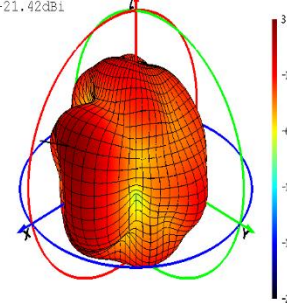


Theta=90 Freq=2450MHz

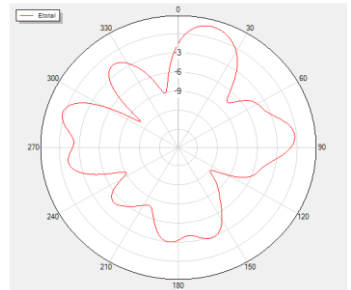


2600 MHz

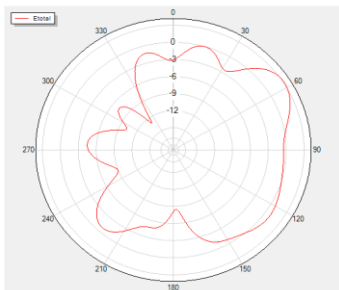
MAX:2.54dBi
MIN:-21.42dBi



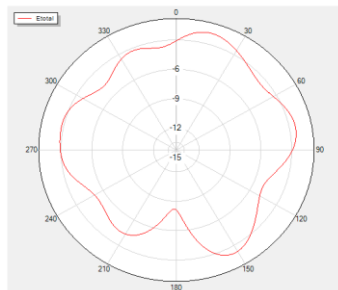
Theta=90 Freq=2600MHz



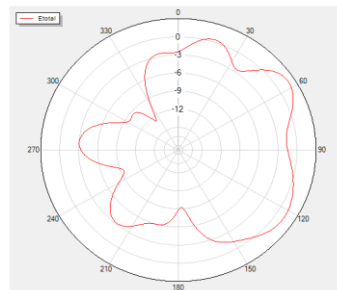
Phi=0 Freq=2450MHz



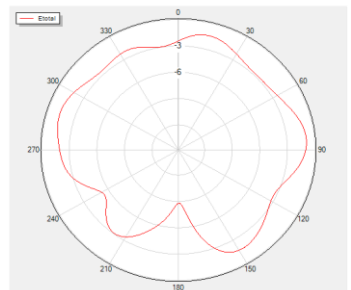
Phi=90 Freq=2450MHz



Phi=0 Freq=2600MHz

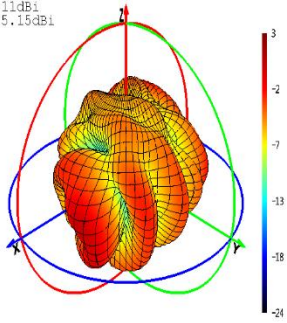


Phi=90 Freq=2600MHz

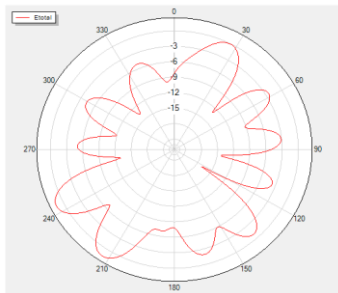


3600 MHz

MAX:2.11dBi
MIN:-25.15dBi

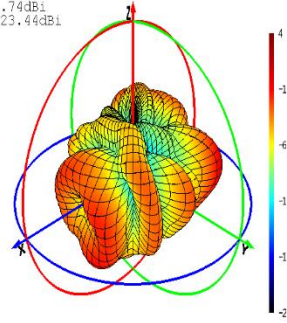


Theta=90 Freq=3600MHz

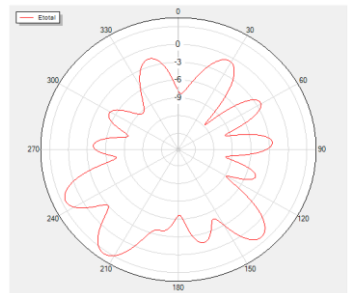


4000 MHz

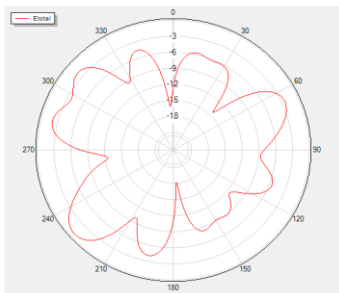
MAX:3.74dBi
MIN:-23.44dBi



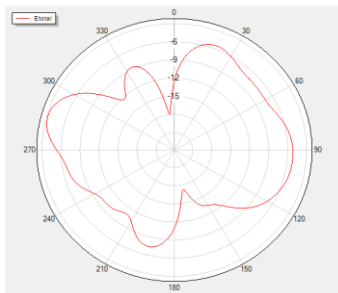
Theta=90 Freq=4000MHz



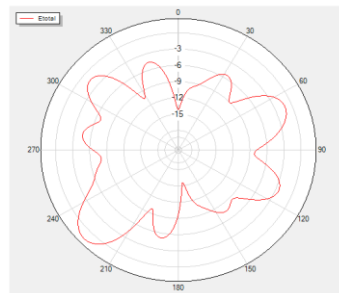
Phi=0 Freq=3600MHz



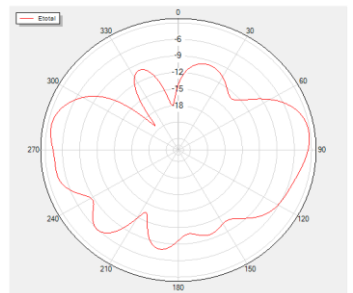
Phi=90 Freq=3600MHz



Phi=0 Freq=4000MHz

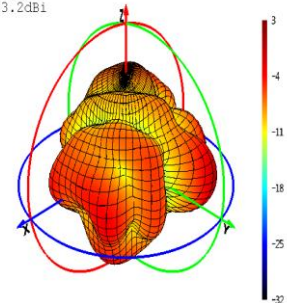


Phi=90 Freq=4000MHz

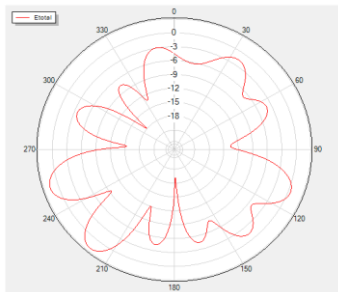


4700 MHz

MAX:2.38dBi
MIN:-33.2dBi

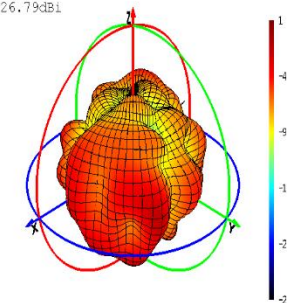


Theta=90 Freq=4700MHz

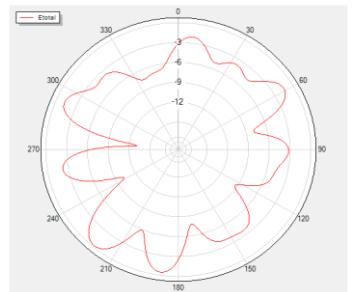


5500 MHz

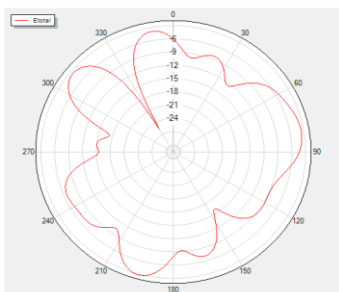
MAX:0.59dBi
MIN:-26.79dBi



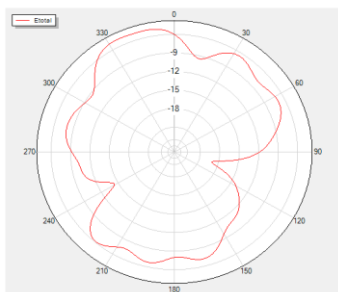
Theta=90 Freq=5500MHz



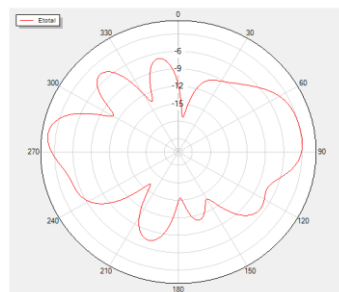
Phi=0 Freq=4700MHz



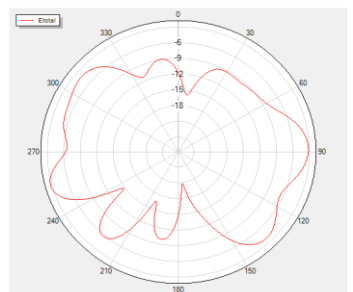
Phi=90 Freq=4700MHz



Phi=0 Freq=5500MHz

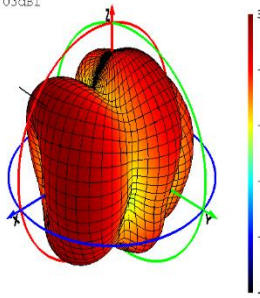


Phi=90 Freq=5500MHz

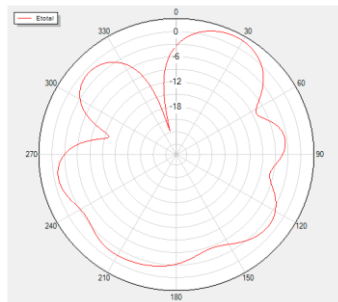


1520 MHz

MAX:2.54dBi
MIN:-24.03dBi

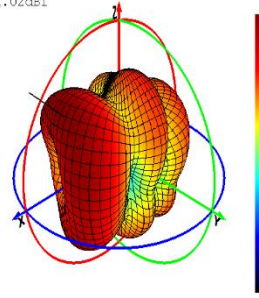


Theta=90 Freq=1520MHz

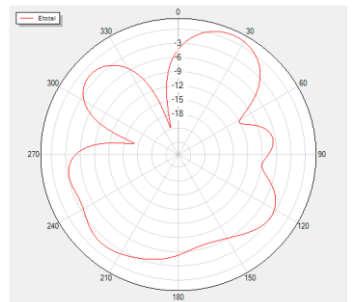


1620 MHz

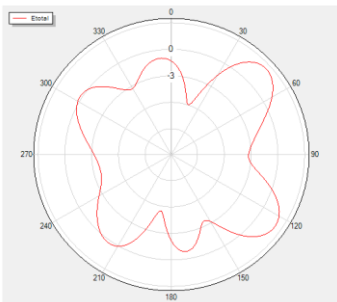
MAX:2.31dBi
MIN:-21.02dBi



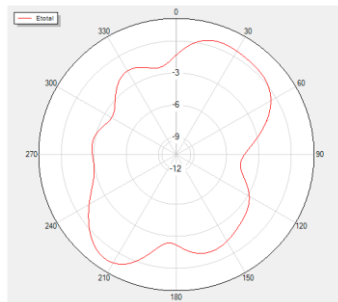
Theta=90 Freq=1620MHz



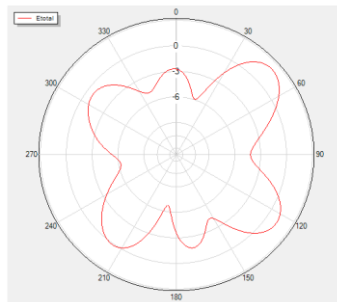
Phi=0 Freq=1520MHz



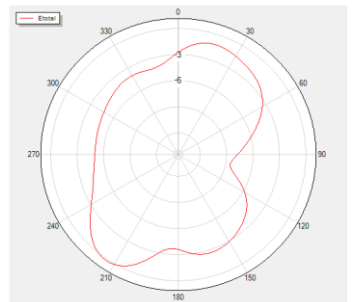
Phi=90 Freq=1520MHz



Phi=0 Freq=1620MHz

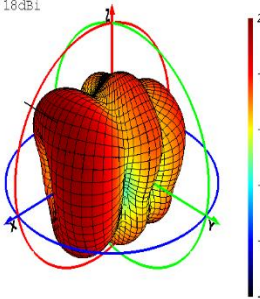


Phi=90 Freq=1620MHz

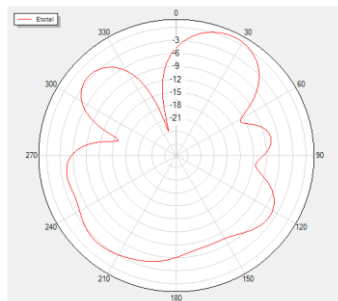


1670 MHz

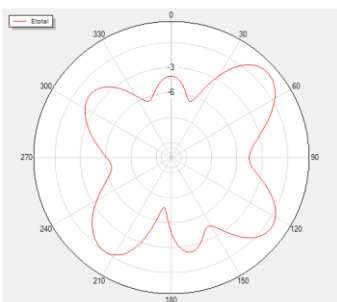
MAX:1.65dBi
MIN:-25.16dBi



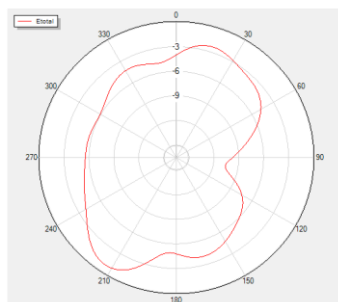
Theta=90 Freq=1670MHz



Phi=0 Freq=1670MHz

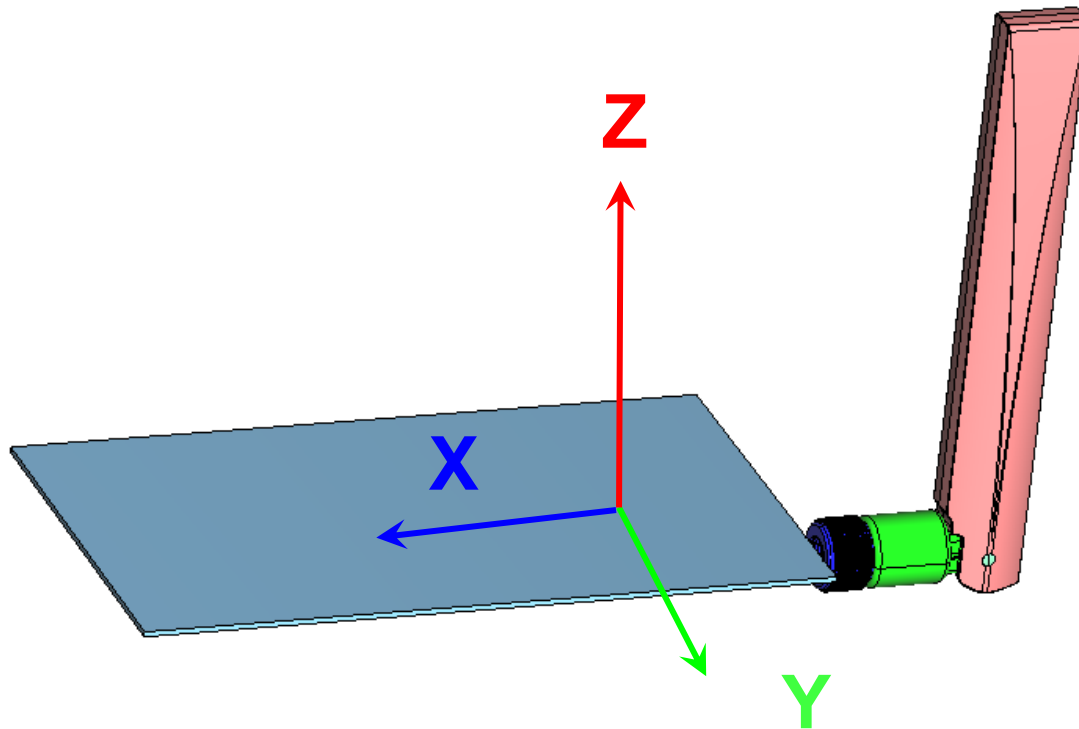


Phi=90 Freq=1670MHz



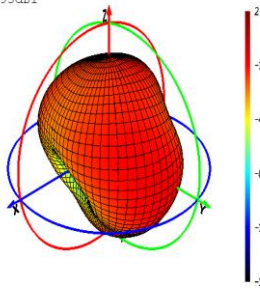
3.3.4.2. Test Condition: On 130 mm × 70 mm EVB and Bent

- Test Chamber: FS-S-1

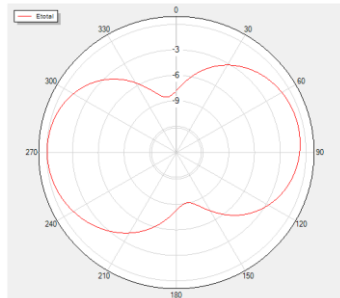


630 MHz

MAX:1.37dBi
MIN:-15.93dBi

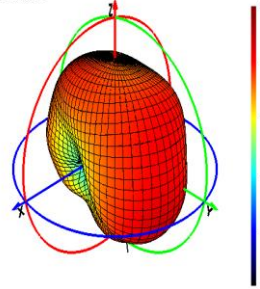


Theta=90 Freq=630MHz

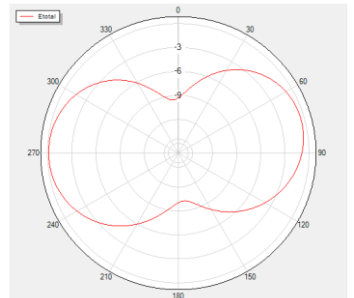


710 MHz

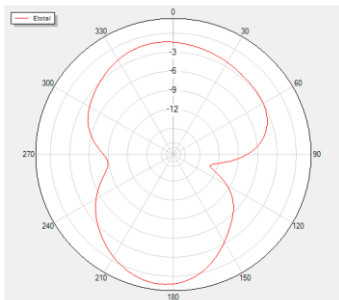
MAX:1.41dBi
MIN:-17.61dBi



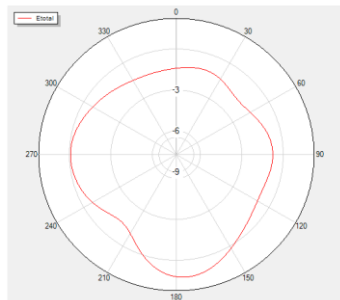
Theta=90 Freq=710MHz



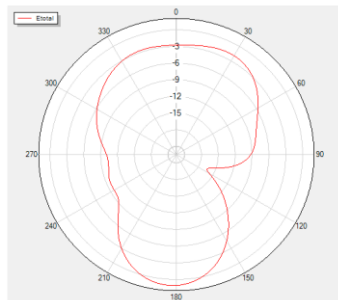
Phi=0 Freq=630MHz



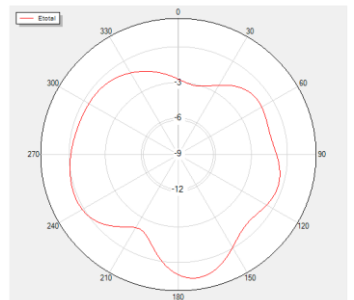
Phi=90 Freq=630MHz



Phi=0 Freq=710MHz

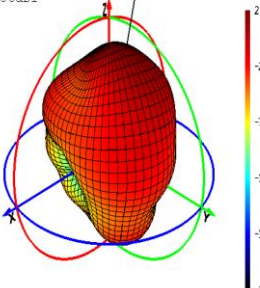


Phi=90 Freq=710MHz

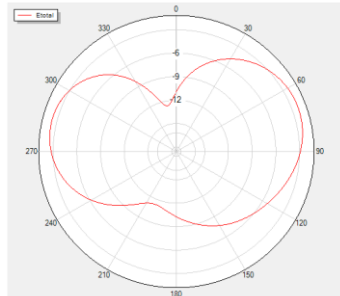


830 MHz

MAX:1.52dBi
MIN:-21.06dBi

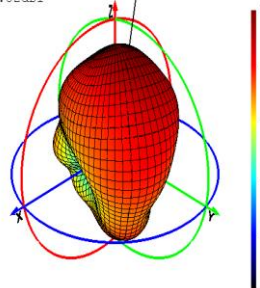


Theta=90 Freq=830MHz

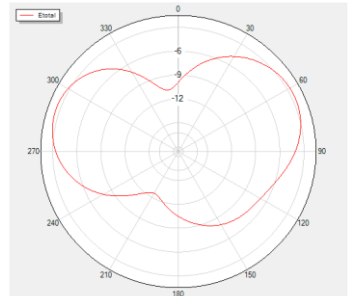


900 MHz

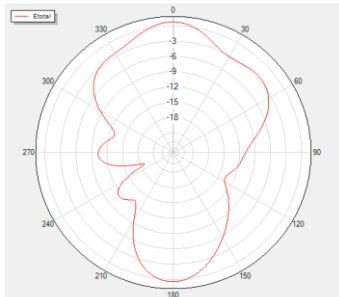
MAX:1dBi
MIN:-17.52dBi



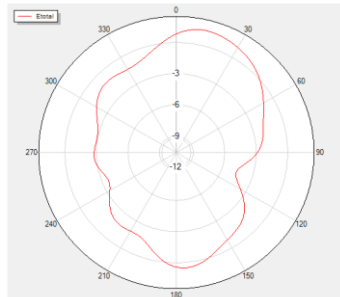
Theta=90 Freq=900MHz



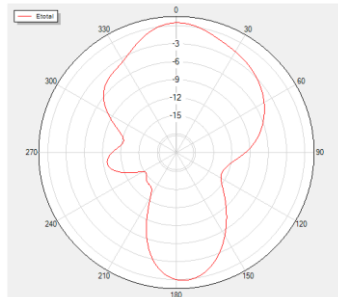
Phi=0 Freq=830MHz



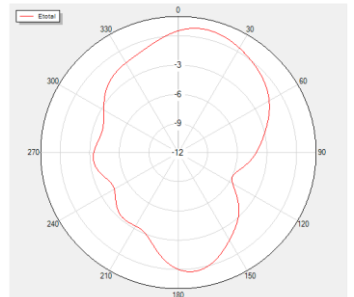
Phi=90 Freq=830MHz



Phi=0 Freq=900MHz

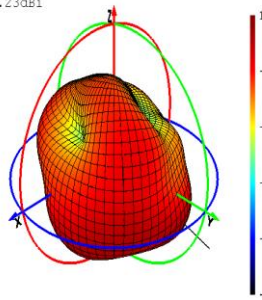


Phi=90 Freq=900MHz

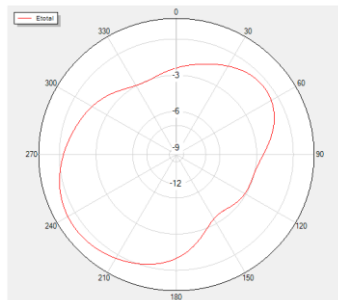


1440 MHz

MAX:0.87dBi
MIN:-20.23dBi

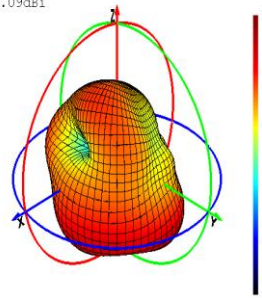


Theta=90 Freq=1440MHz

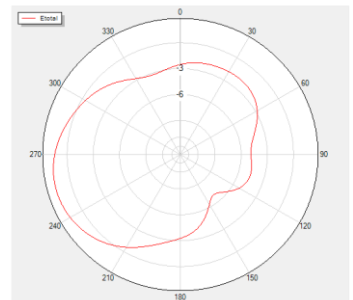


1740 MHz

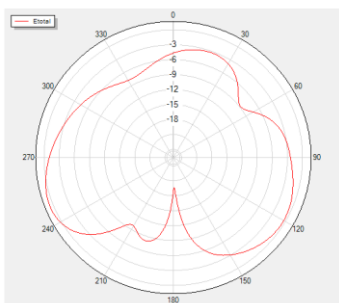
MAX:2.12dBi
MIN:-19.09dBi



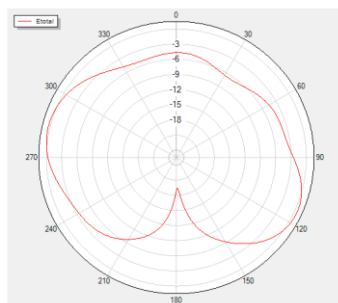
Theta=90 Freq=1740MHz



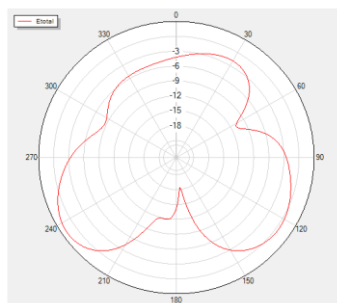
Phi=0 Freq=1440MHz



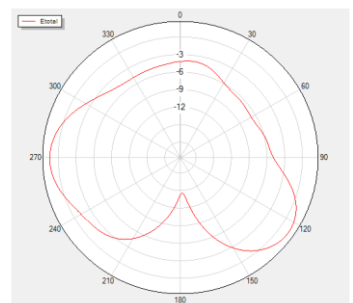
Phi=90 Freq=1440MHz



Phi=0 Freq=1740MHz

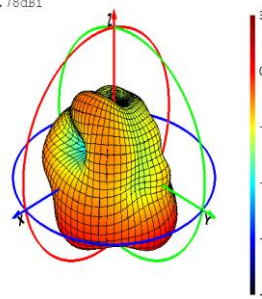


Phi=90 Freq=1740MHz

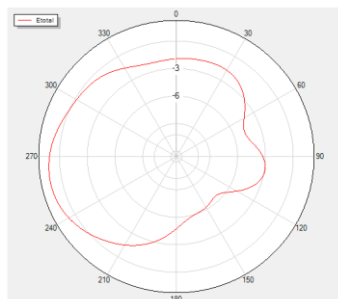


1880 MHz

MAX:2.77dBi
MIN:-14.78dBi

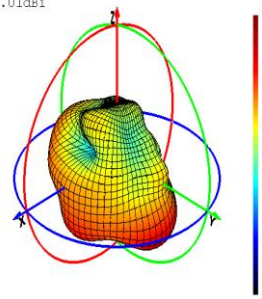


Theta=90 Freq=1880MHz

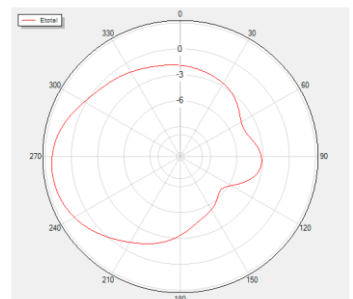


1950 MHz

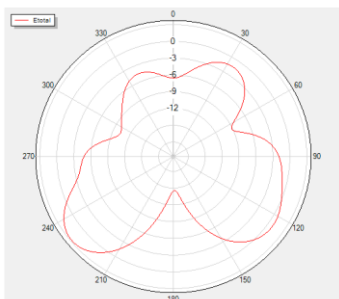
MAX:2.82dBi
MIN:-15.01dBi



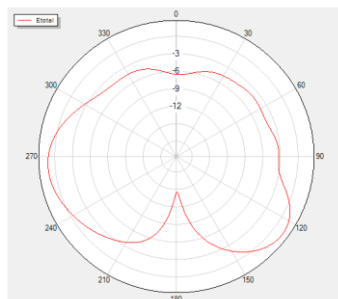
Theta=90 Freq=1950MHz



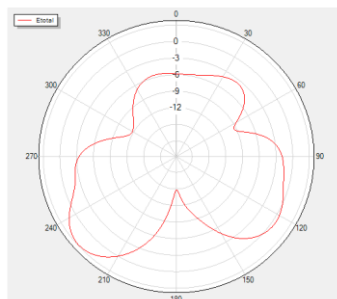
Phi=0 Freq=1880MHz



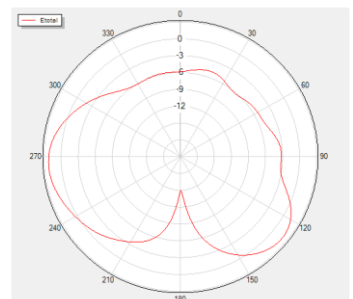
Phi=90 Freq=1880MHz



Phi=0 Freq=1950MHz

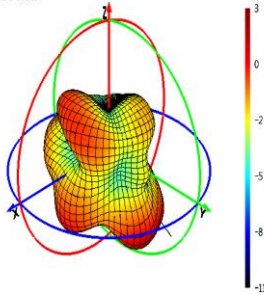


Phi=90 Freq=1950MHz

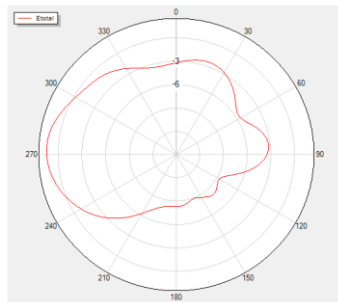


2140 MHz

MAX:2.28dB1
MIN:-12.16dB1

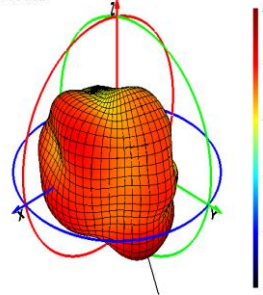


Theta=90 Freq=2140MHz

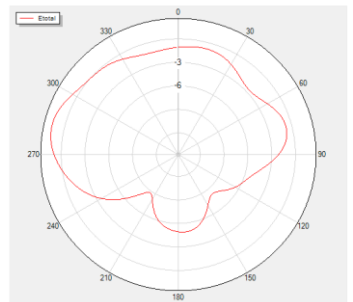


2350 MHz

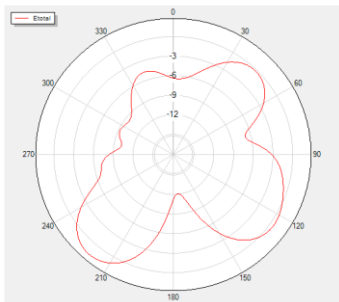
MAX:2.74dB1
MIN:-20.33dB1



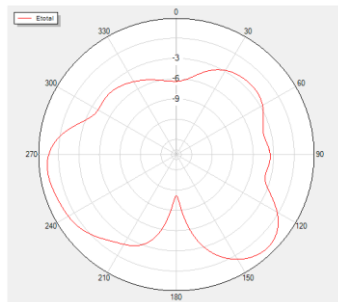
Theta=90 Freq=2350MHz



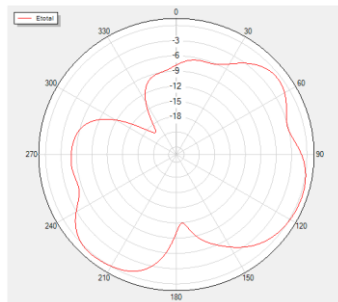
Phi=0 Freq=2140MHz



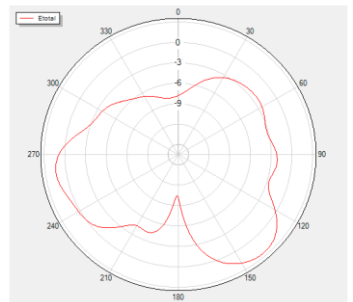
Phi=90 Freq=2140MHz



Phi=0 Freq=2350MHz

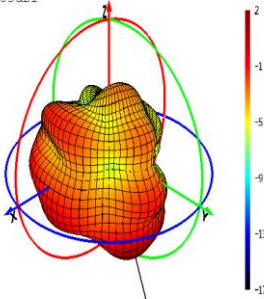


Phi=90 Freq=2350MHz

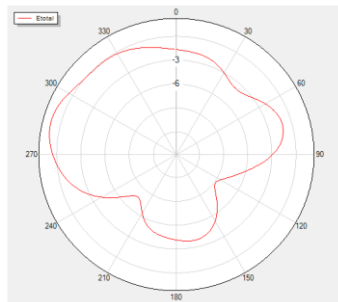


2450 MHz

MAX:1.8dB1
MIN:-17.53dB1

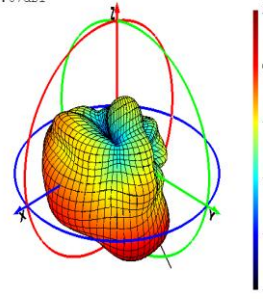


Theta=90 Freq=2450MHz

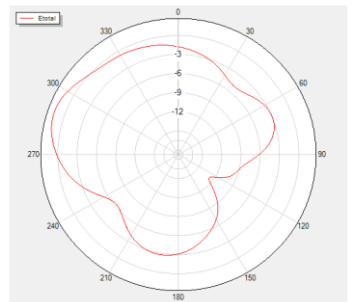


2600 MHz

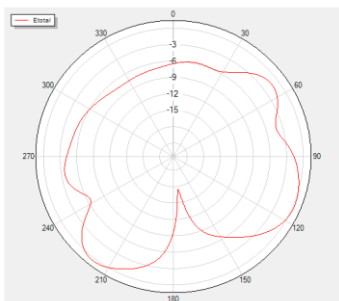
MAX:2.93dB1
MIN:-16.67dB1



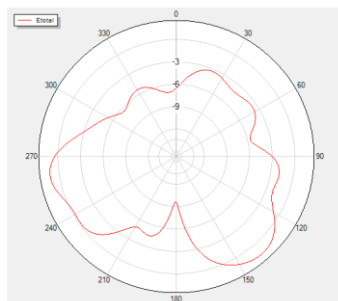
Theta=90 Freq=2600MHz



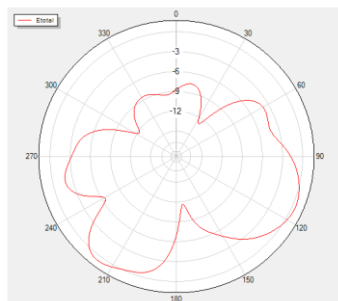
Phi=0 Freq=2450MHz



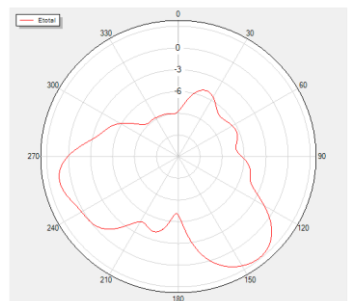
Phi=90 Freq=2450MHz



Phi=0 Freq=2600MHz

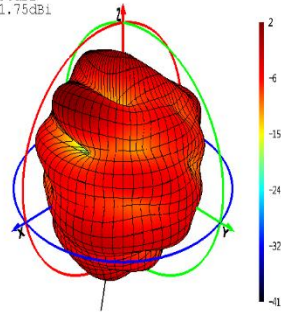


Phi=90 Freq=2600MHz

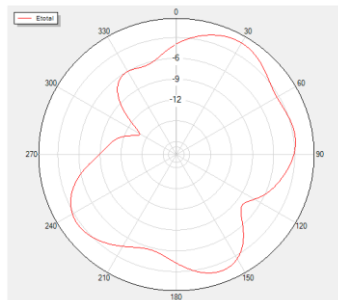


3600 MHz

MAX:1.86dBi
MIN:-41.75dBi

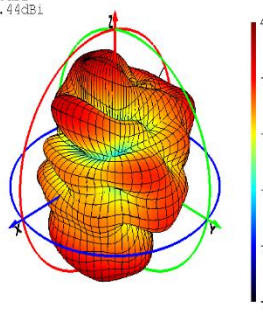


Theta=90 Freq=3600MHz

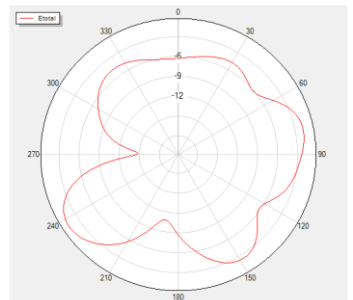


4000 MHz

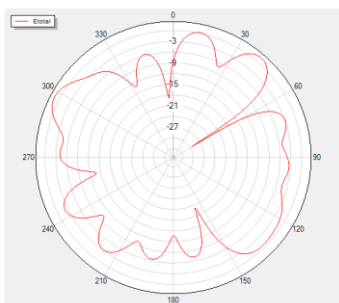
MAX:3.06dBi
MIN:-27.44dBi



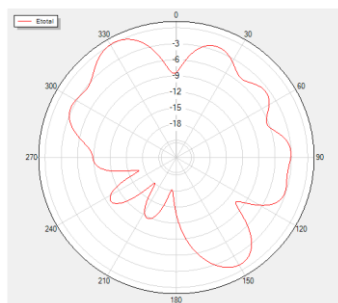
Theta=90 Freq=4000MHz



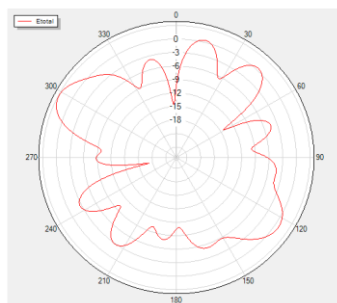
Phi=0 Freq=3600MHz



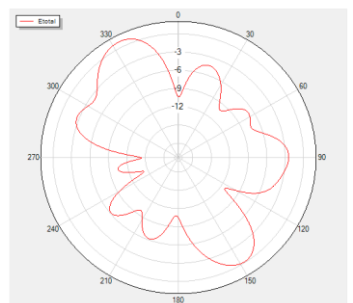
Phi=90 Freq=3600MHz



Phi=0 Freq=4000MHz

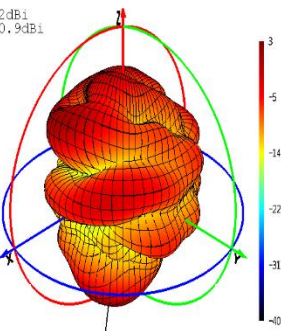


Phi=90 Freq=4000MHz

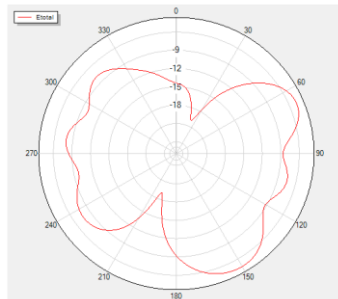


4700 MHz

MAX:2.2dBi
MIN:-40.9dBi

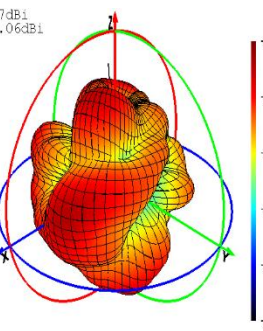


Theta=90 Freq=4700MHz

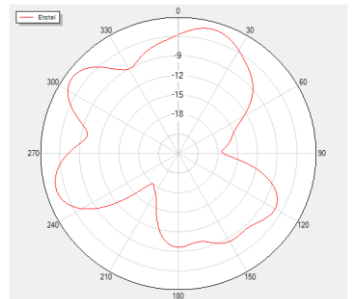


5500 MHz

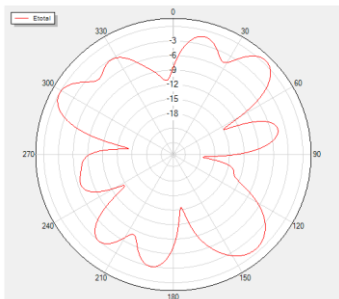
MAX:-1.7dBi
MIN:-29.06dBi



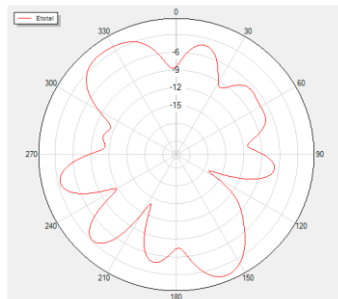
Theta=90 Freq=5500MHz



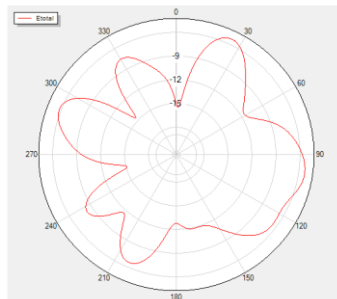
Phi=0 Freq=4700MHz



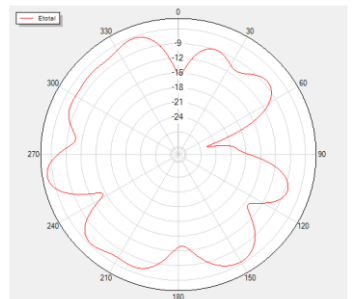
Phi=90 Freq=4700MHz



Phi=0 Freq=5500MHz

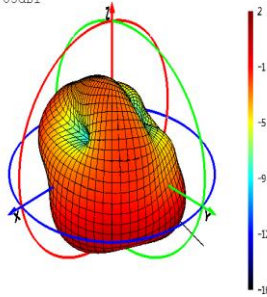


Phi=90 Freq=5500MHz

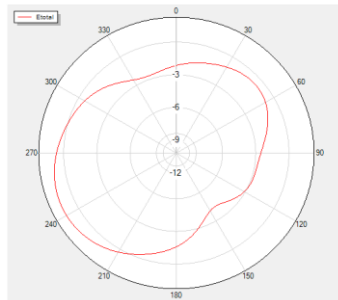


1520 MHz

MAX:1.6dBi
MIN:-17.05dBi

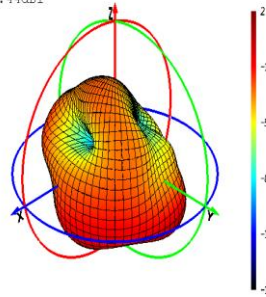


Theta=90 Freq=1520MHz

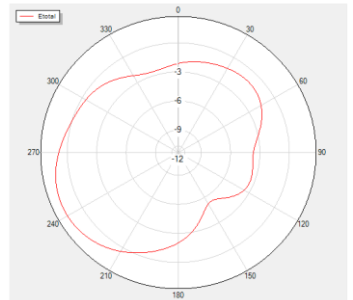


1620 MHz

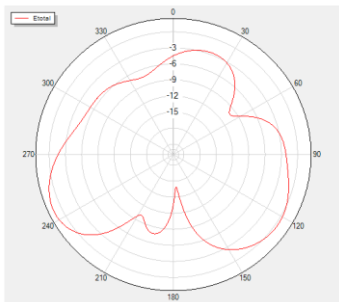
MAX:1.87dBi
MIN:-16.44dBi



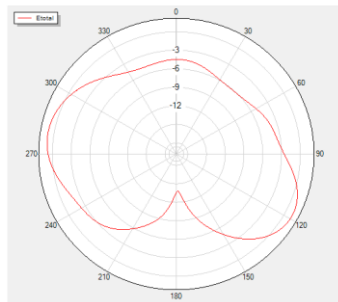
Theta=90 Freq=1620MHz



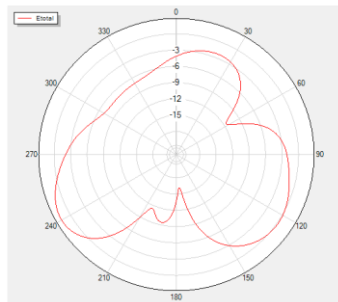
Phi=0 Freq=1520MHz



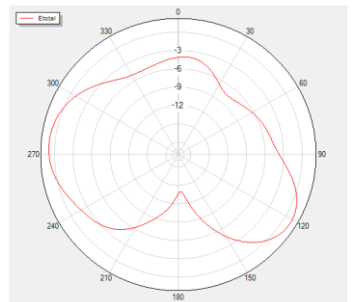
Phi=90 Freq=1520MHz



Phi=0 Freq=1620MHz

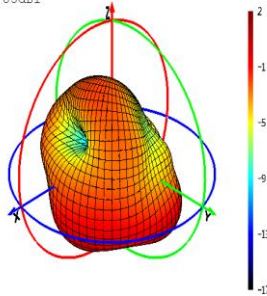


Phi=90 Freq=1620MHz

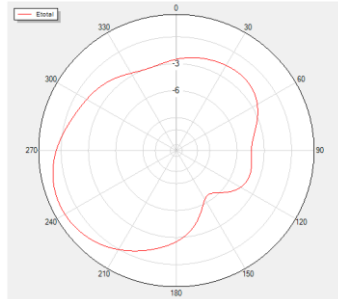


1670 MHz

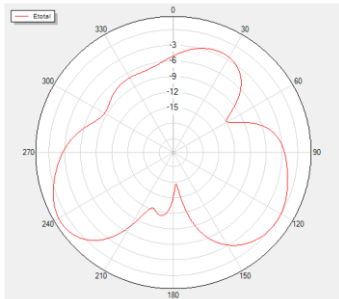
MAX:1.6dBi
MIN:-17.85dBi



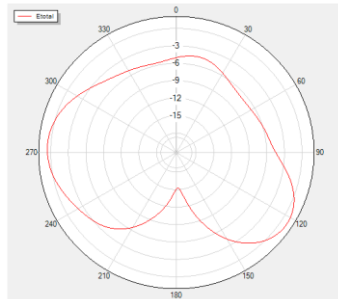
Theta=90 Freq=1670MHz



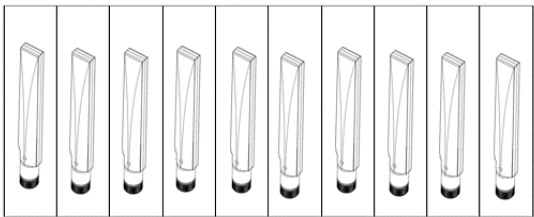
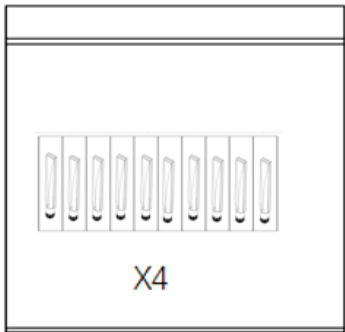
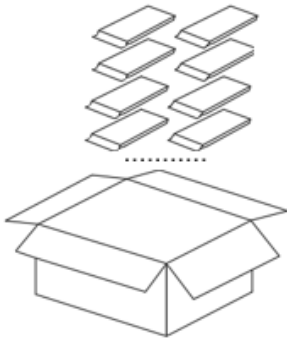
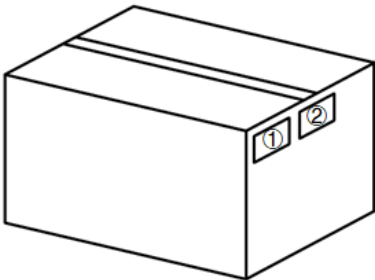
Phi=0 Freq=1670MHz

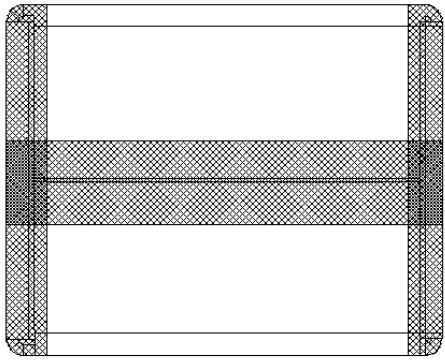


Phi=90 Freq=1670MHz



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		10 antenna products in a one-piece bag. (10 Antennas / One-Piece Bag)
2		40 antenna products in a PE bag. (40 Antennas / PE Bag)
3		(8 PE Bags / Carton Box) (320 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 325 × 325 × 200 mm</u>
4		Position for Attaching Labels ① Carton Label ② Quality Label

5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Tel: +86 21 5108 6236

Email: info@quectel.com

Or our local offices. For more information, please visit:

<https://www.quectel.com/contact/>.

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<https://www.quectel.com/tech-support/>.

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Revision History

Version	Date	Author	Note
-	2025-08-04	Mordecai Liu/ Lance Sun/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-08-04	Mordecai Liu/ Lance Sun/ Riva Ren/ Rainey Liao	First official release
1.1	2025-12-29	Blake Xiang	Updated the drawing (Chapter 2).



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