



Antenna Datasheet

Product OC: Y0CEA0MA5KA

Version: 1.1

Date: 2026-04-17

Product Name: FPC WIFI + Cable Antenna **Key**

Features:

Frequency Band: 2400–2500 MHz

Dimensions: 64.1mm × 35mm × 25.33mm

Efficiency: Up to 69.45%

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

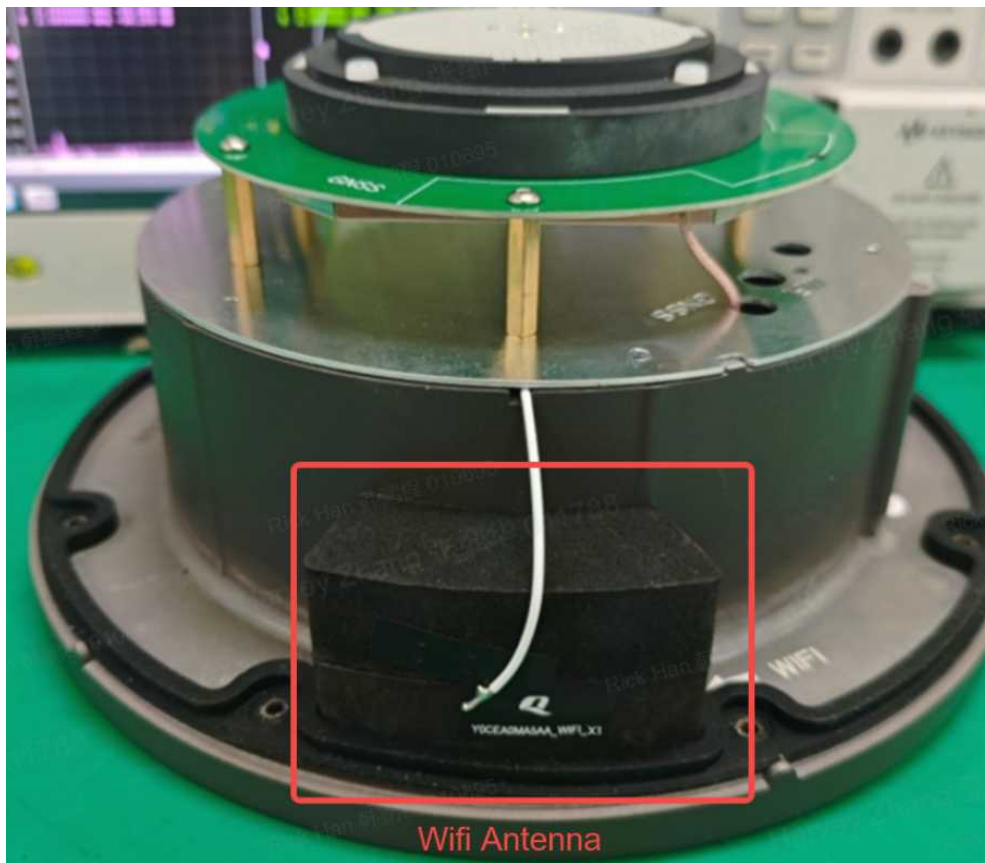
Electrical	
Frequency Range	2400–2500 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 1.6
Peak Gain	6.0 dBi

1.2. Mechanical & Environmental

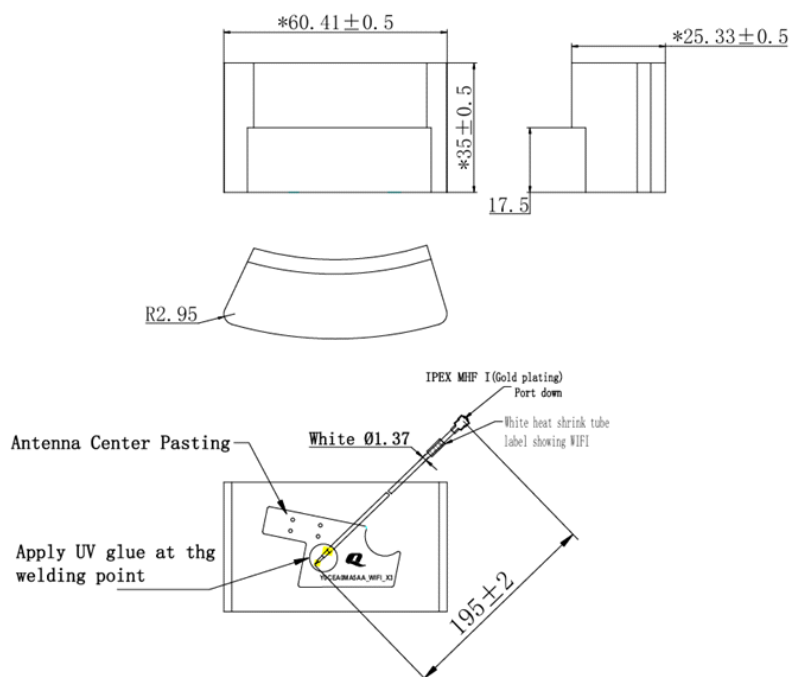
Mechanical	
Antenna Dimensions	60.41 mm × 35 mm × 25.33mm
Material & Color	EVA+FPC & Black
Cable Type & Color & Length	Φ1.37 & White & 195mm
Connector Type	IPEX MHF 1
Weight	Typ. 6.8 g
Mounting Type	adhesive
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C

RoHS Compliant	Yes
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1.3. Antenna Assembly



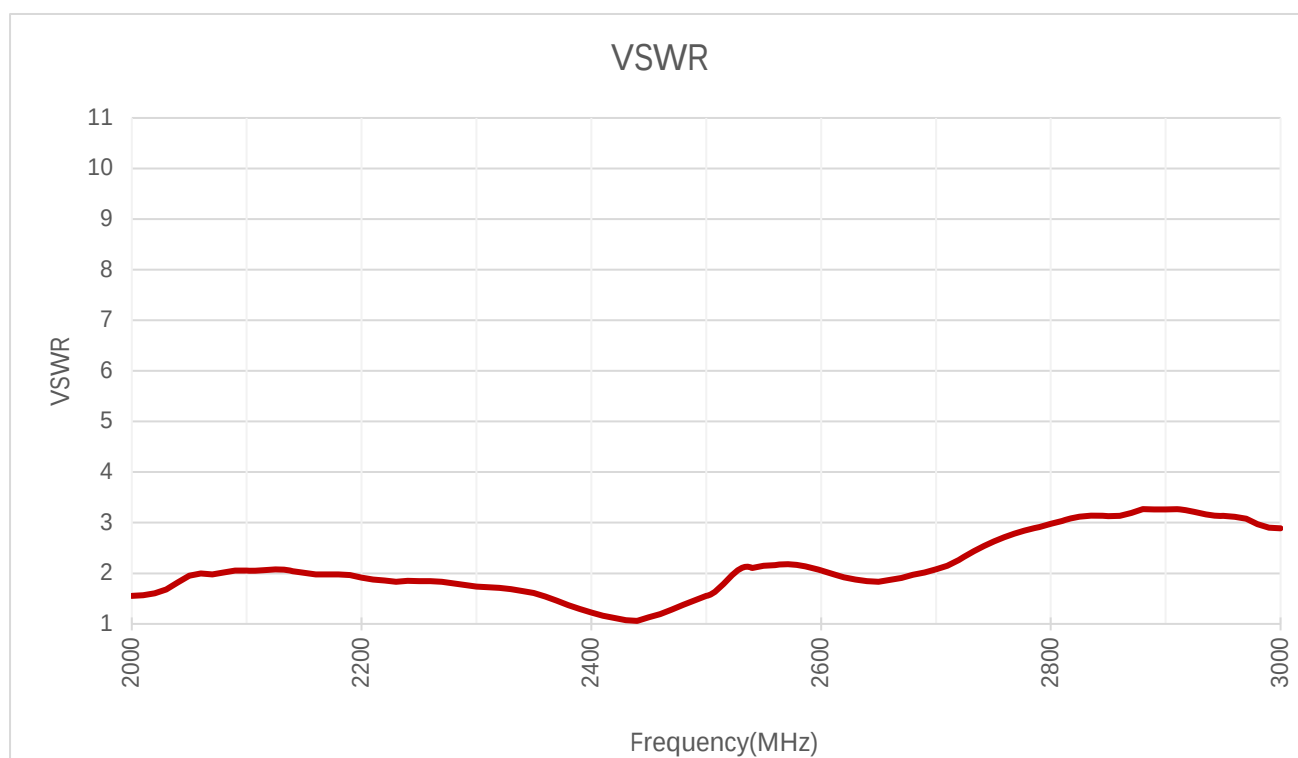
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR



VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	1.2	1.1	1.6	-	-	-	-	-	-	-

3.2. Radiation Performance Test

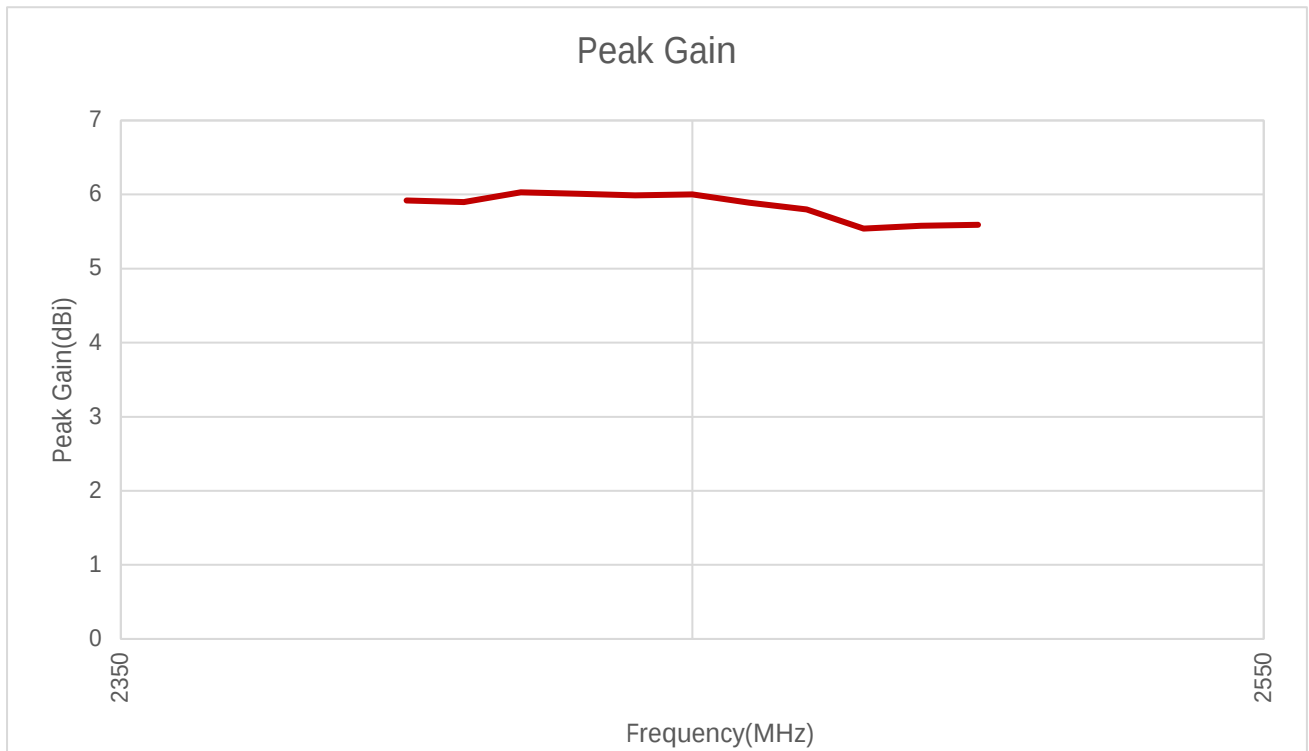
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	71.9	69.1	62.7	-	-	-	-	-	-	-

3.2.2. Peak Gain

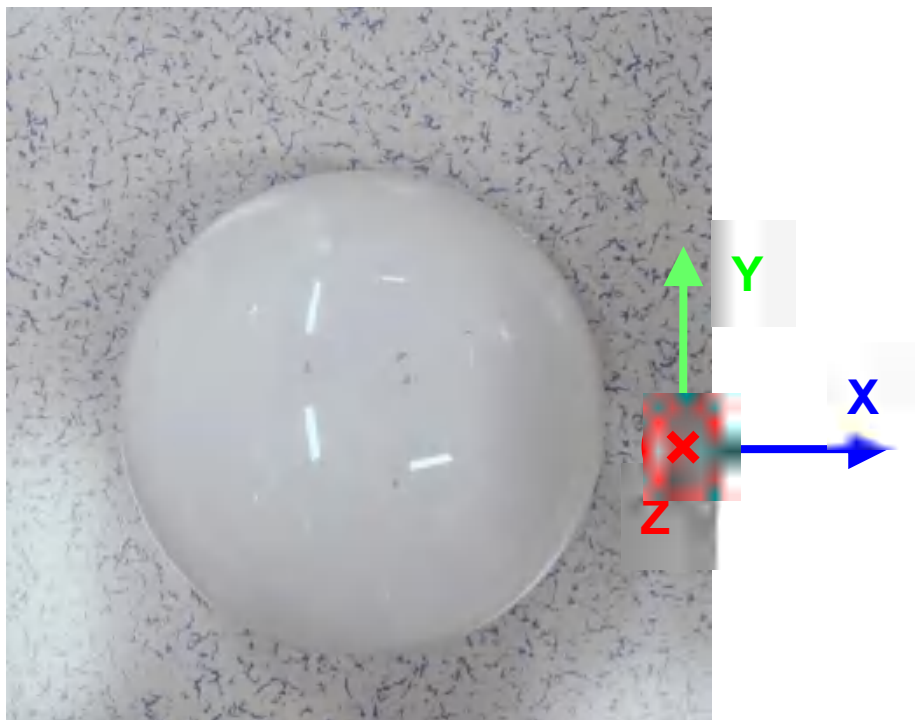


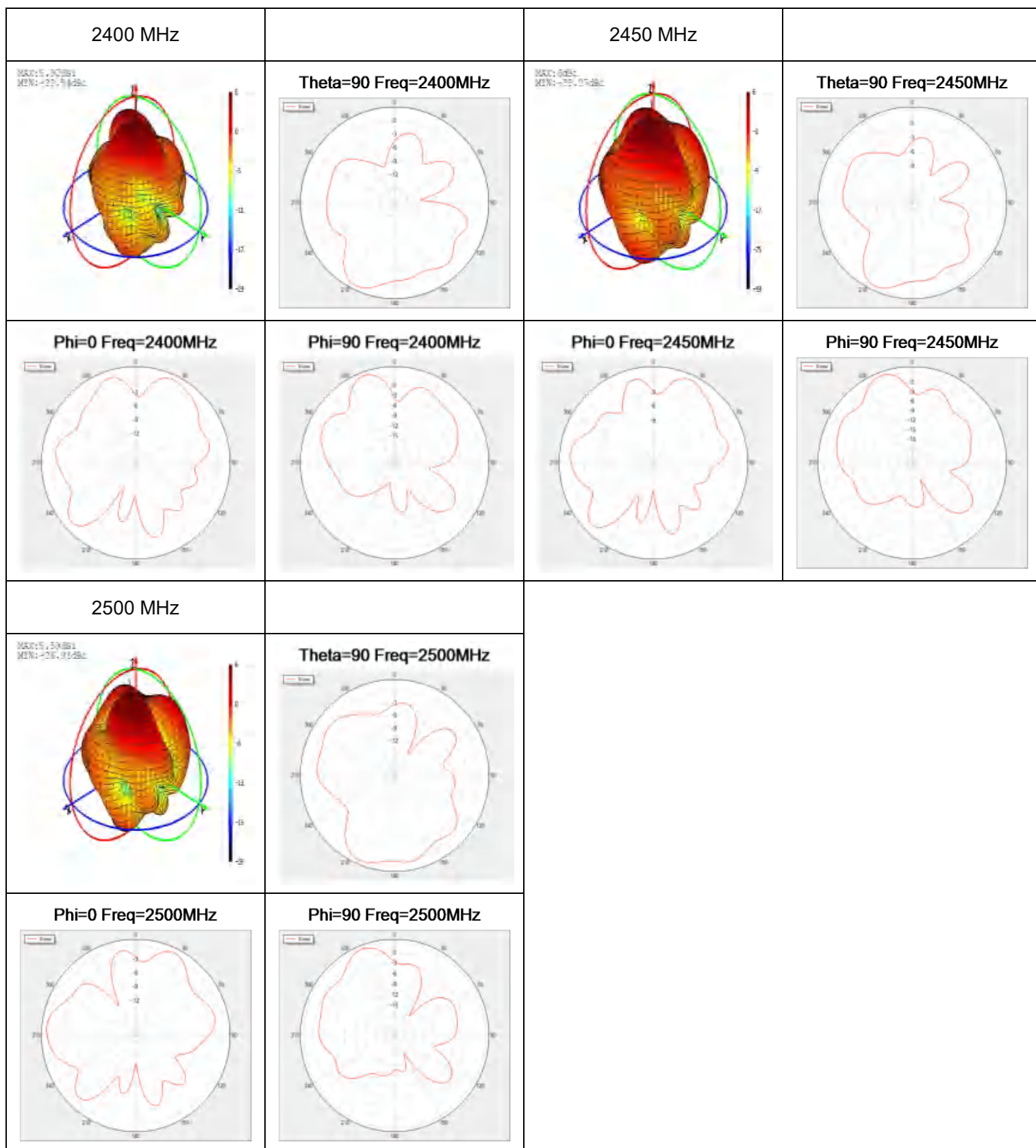
Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dBi)	5.9	6.0	5.6	-	-	-	-	-	-	-

3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: FS-S-1





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Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

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Email: info@quectel.com

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Revision History

Version	Date	Author	Note
-	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	First official release



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Antenna Datasheet

Product OC: Y0CEA0MA5FA

Version: 1.1

Date: 2026-04-16

Product Name: 4G FPC + Cable Antenna

Key Features:

Frequency Band: 698–960 MHz, 1710–2690 MHz

Dimensions: 64.1 mm × 35 mm × 25.33 mm

Efficiency: Up to 77.72 %

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

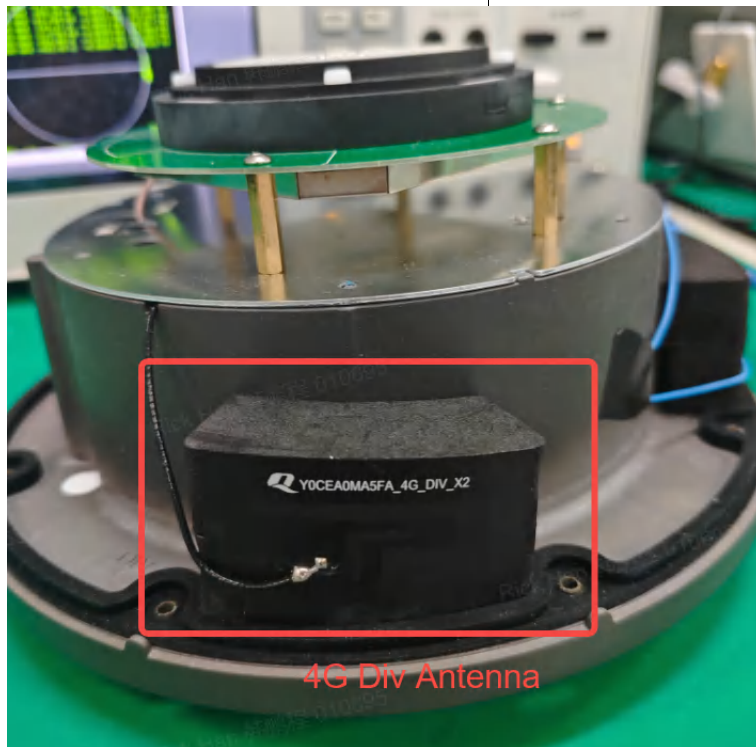
Electrical	
Frequency Range	698–960 MHz, 1710–2690 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 5.2
Peak Gain	4.2 dBi

1.2. Mechanical & Environmental

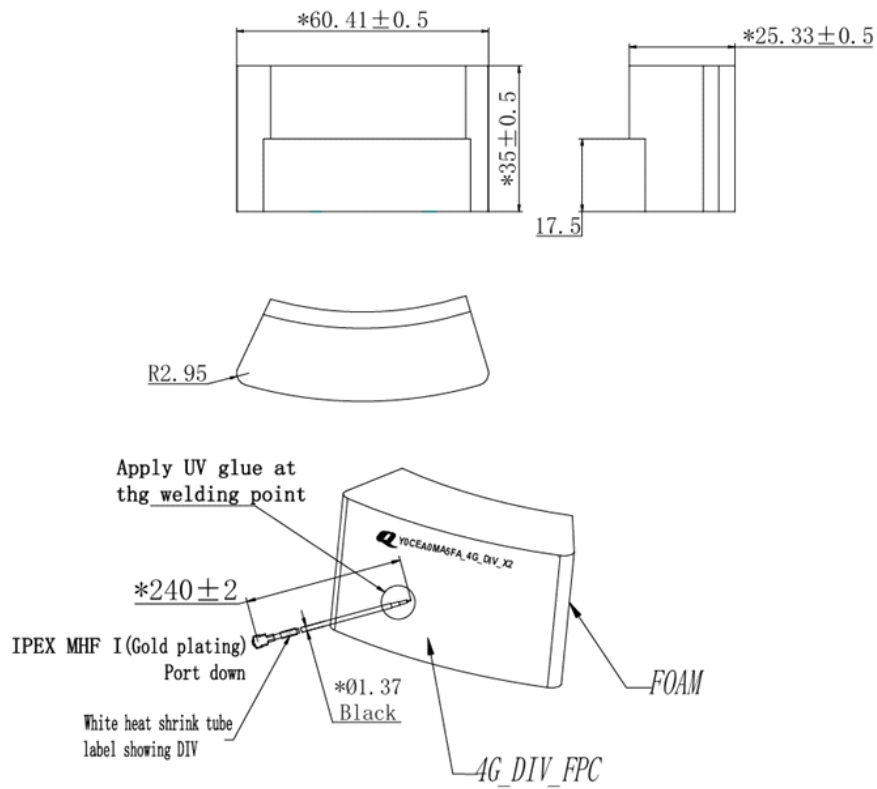
Mechanical	
Antenna Dimensions	60.41 mm × 35 mm × 25.33 mm
Material & Color	FPC+EVA & Black
Cable Type & Color & Length	$\Phi 1.37$ & Black & 240mm
Connector Type	IPEX MHF 1
Weight	Typ. 7.2 g
Mounting Type	Adhesive
Environmental	
Operation Temperature	-40 °C to +85 °C

Storage Temperature	-40 °C to +85 °C
RoHS Compliant	Yes

1.3. Antenna Assembly



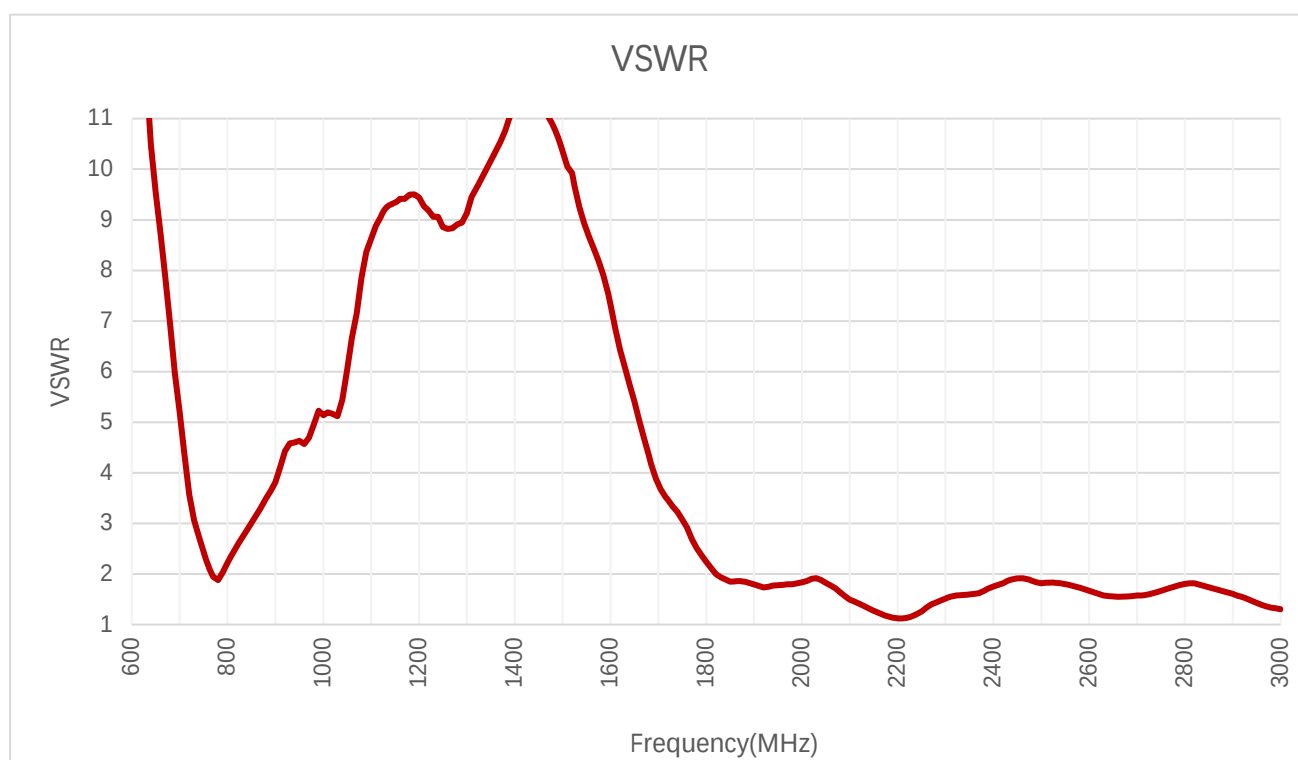
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

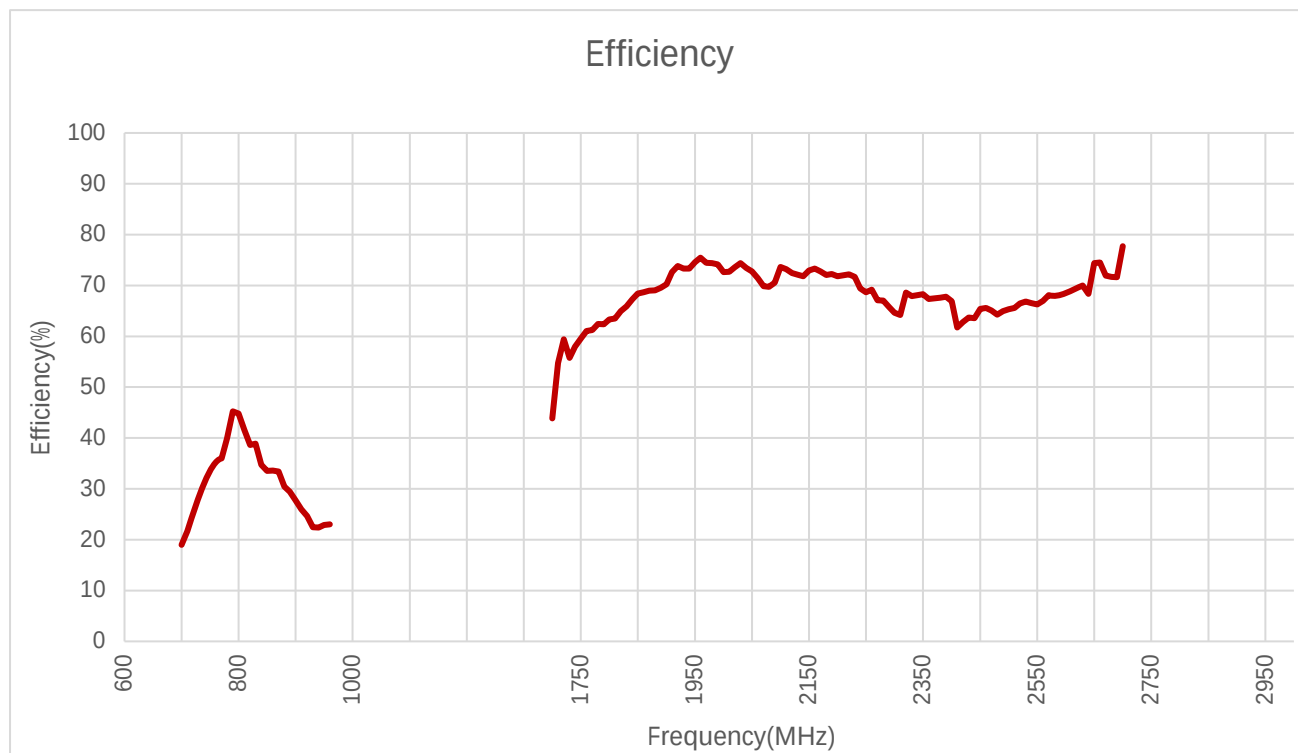


VSWR

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
VSWR	-	-	4.4	2.7	3.8	4.6	-	3.6	3.2	1.8
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
VSWR	1.8	1.3	1.6	1.9	1.7	1.6	-	-	-	-

3.2. Radiation Performance Test

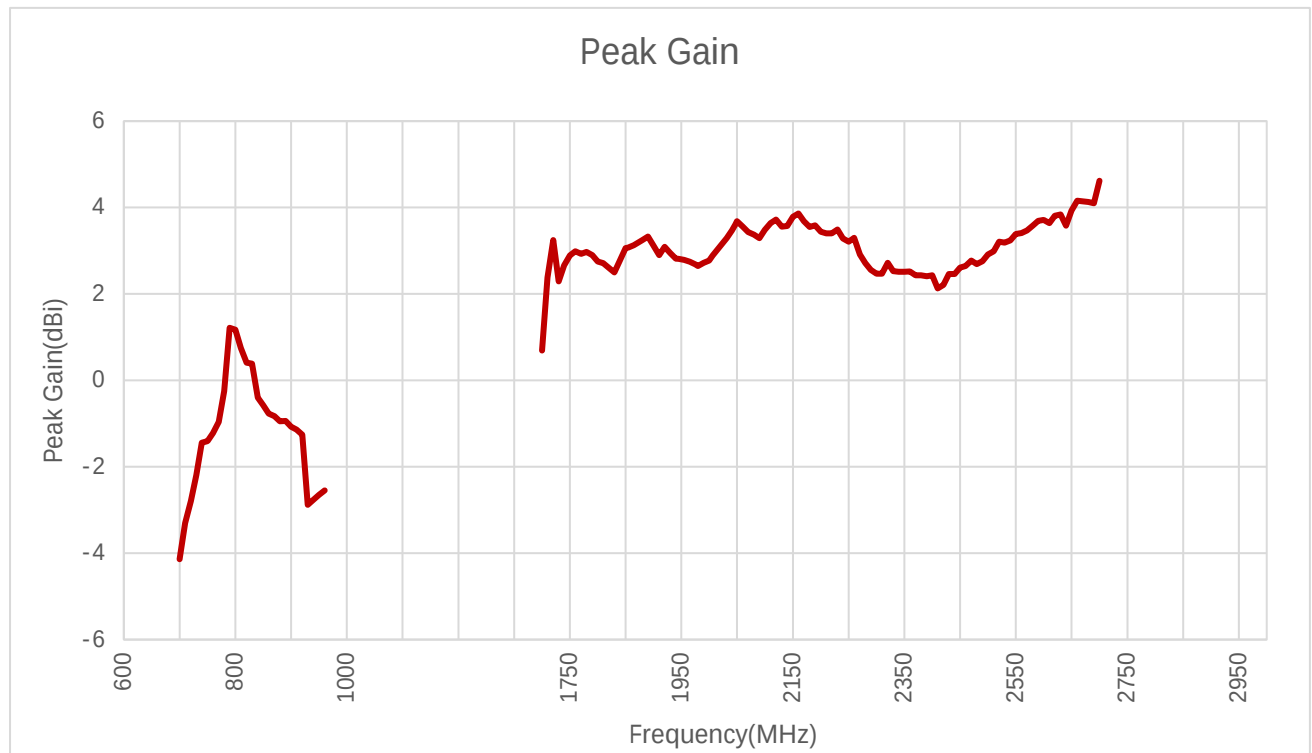
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Efficiency (%)	-	-	21.7	38.9	27.7	23.0	-	54.7	57.9	69.1
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Efficiency (%)	74.6	71.8	68.3	65.4	68.5	71.7	-	-	-	-

3.2.2. Peak Gain

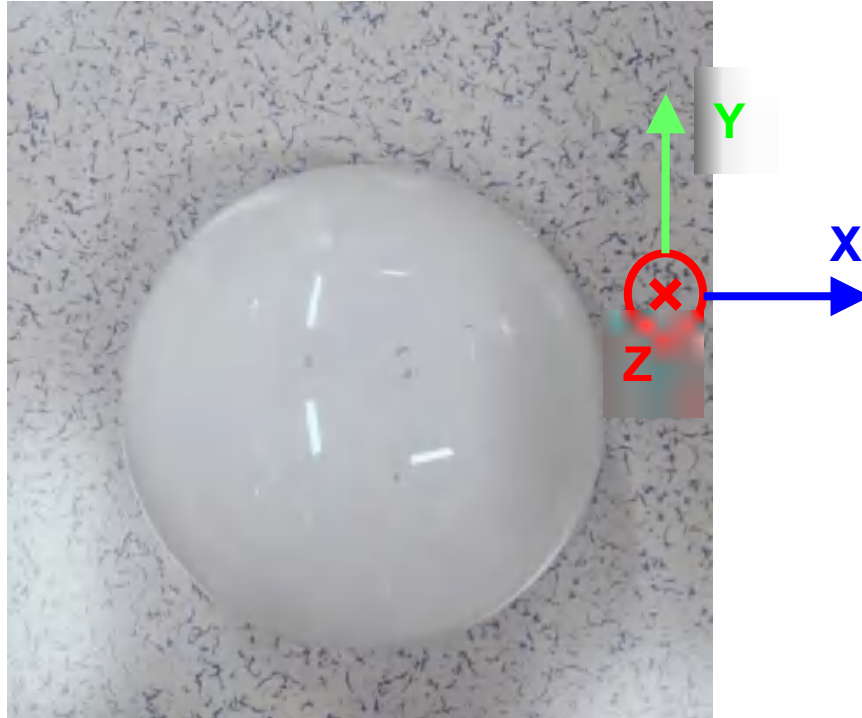


Peak Gain (dBi)

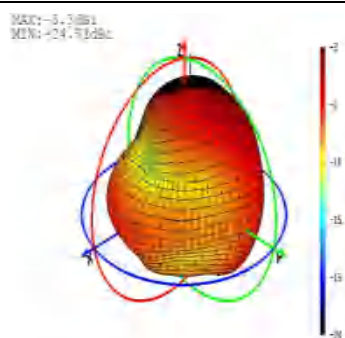
Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Peak Gain (dBi)	-	-	-3.3	0.4	-1.1	-2.6	-	2.4	2.7	3.3
Frequency (MHz)	1950	2140	2350	2450	2600	2690	B7	B13	B26	6000
Peak Gain (dBi)	2.8	3.6	2.5	2.6	3.7	4.1	3.5	1.2	0.8	-

3.2.3. 2D Radiation Pattern

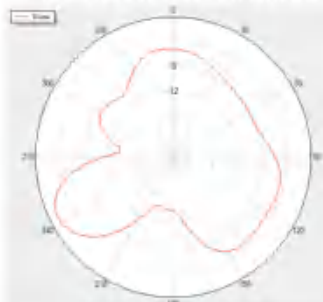
- Test Condition: Assembled in test device
- Test Chamber: FS-S-1



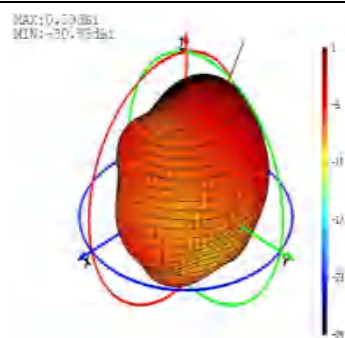
710 MHz



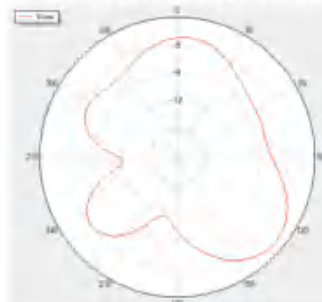
Theta=90 Freq=710MHz



830 MHz



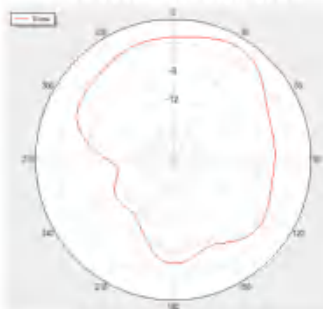
Theta=90 Freq=830MHz



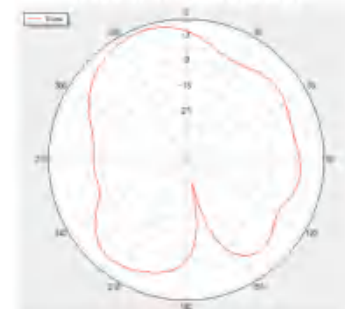
Phi=0 Freq=710MHz



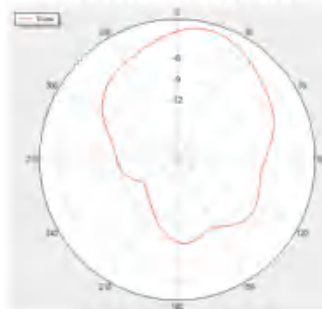
Phi=90 Freq=710MHz



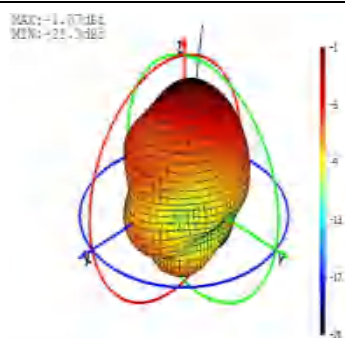
Phi=0 Freq=830MHz



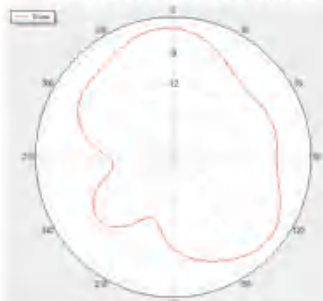
Phi=90 Freq=830MHz



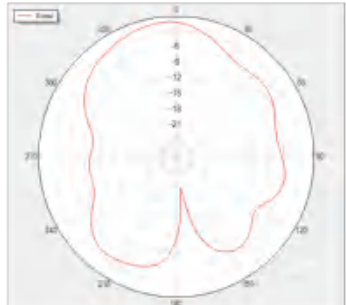
900 MHz



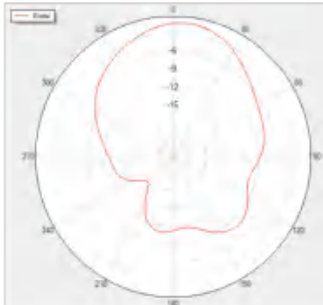
Theta=90 Freq=900MHz

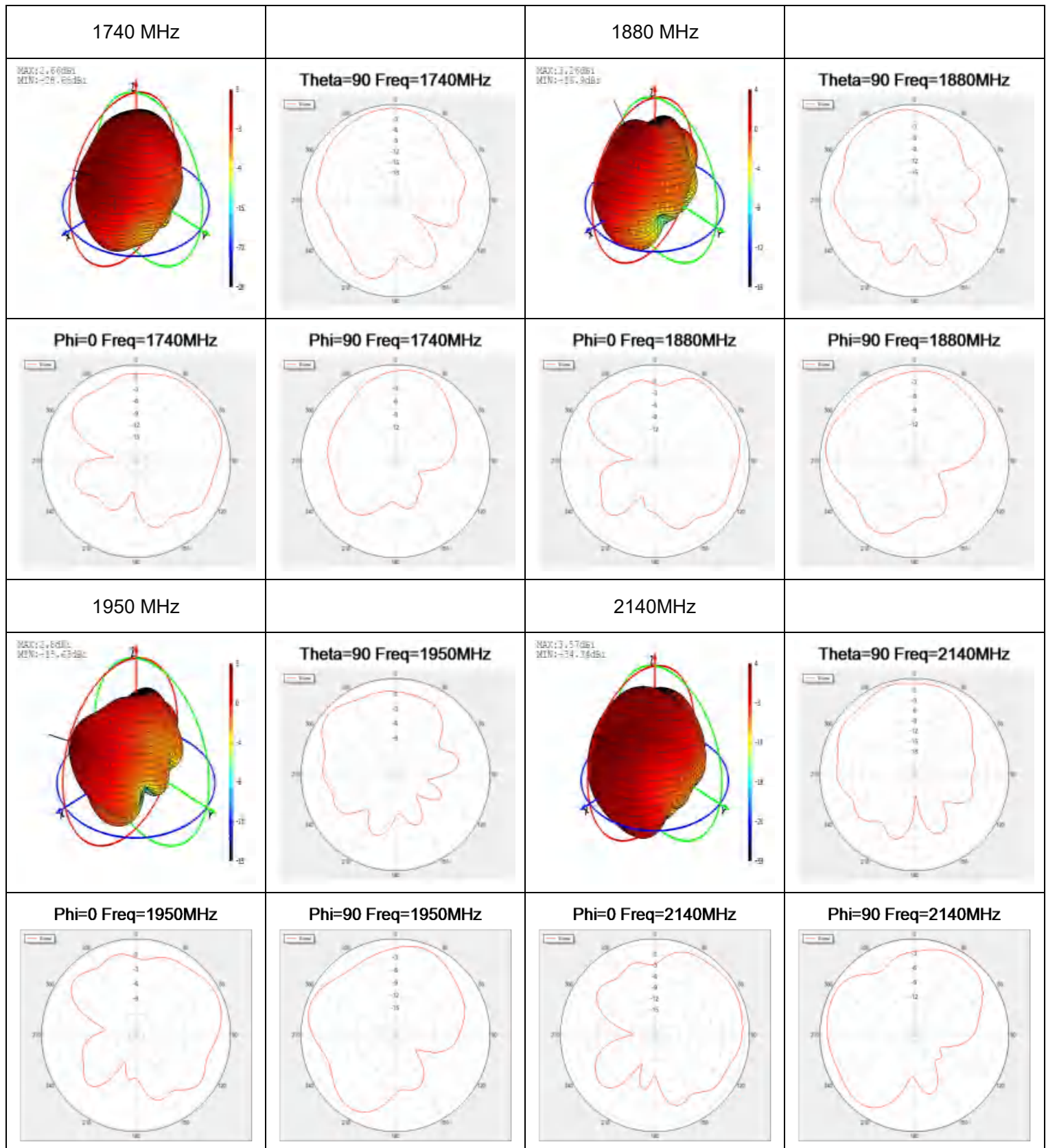


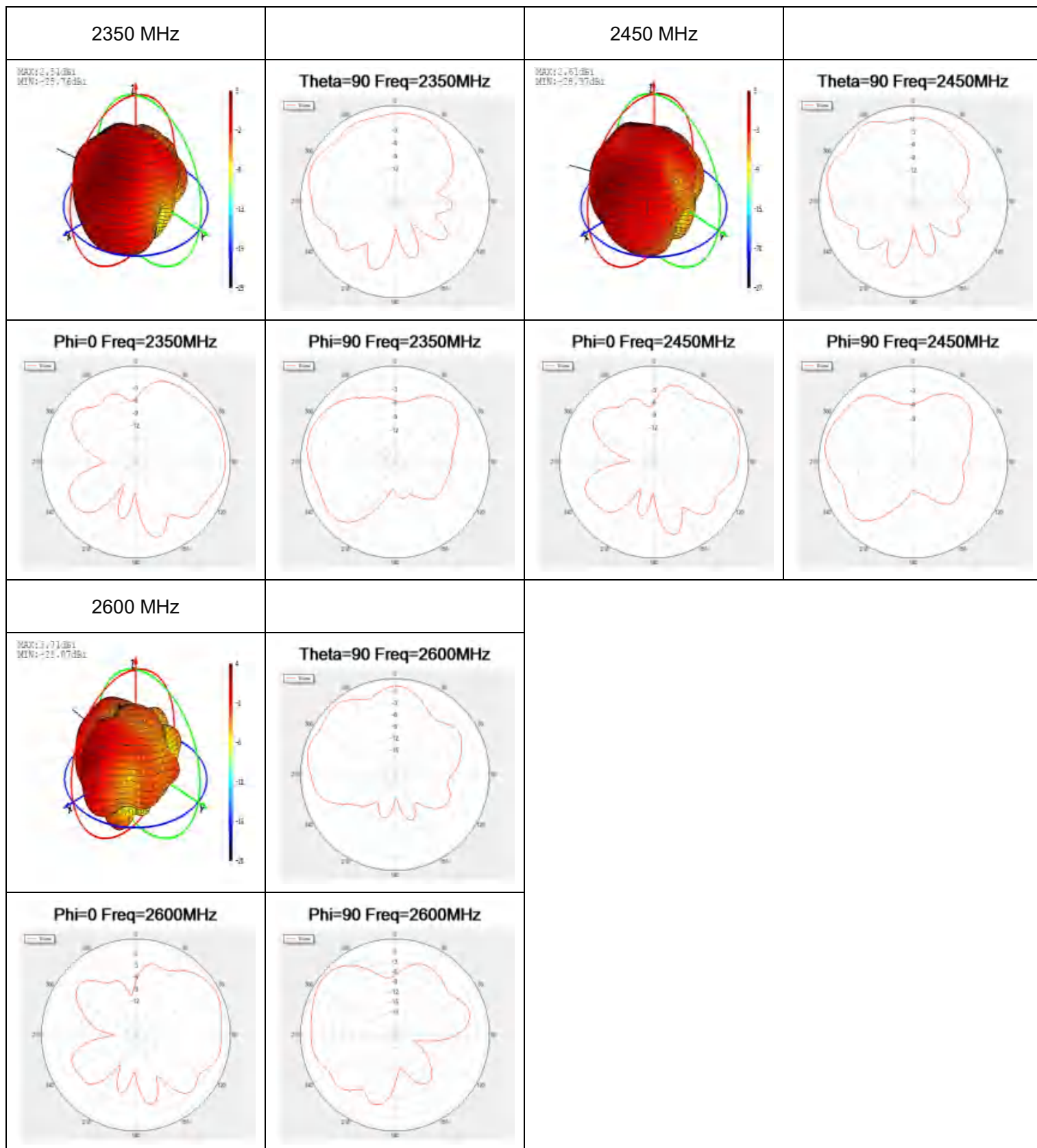
Phi=0 Freq=900MHz



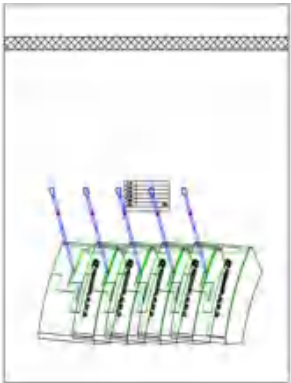
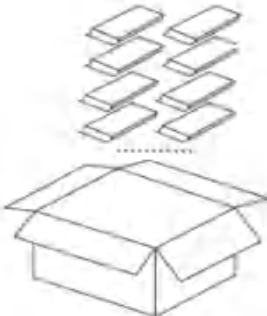
Phi=90 Freq=900MHz

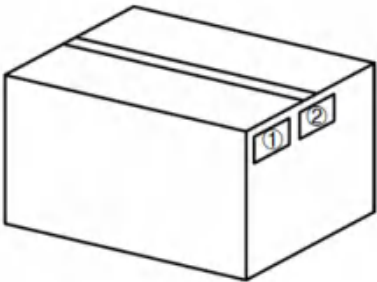
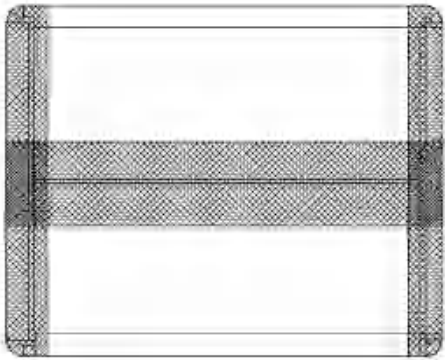






4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		10 antenna products in a PE bag. (10 Antennas / PE Bag)
3		(20 PE Bags / Carton Box) (200 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 = 370 × 370 × 295 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.	

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Revision History

Version	Date	Author	Note
-	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	First official release



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Product OC: Y0CEA0MA5GA

Version: 1.1

Date: 2026-04-16

Product Name: 4G FPC + Cable Antenna

Key Features:

Frequency Band: 698–960 MHz, 1710–2690 MHz

Dimensions: 64.1 mm × 35 mm × 25.33 mm

Efficiency: Up to 73.62 %

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

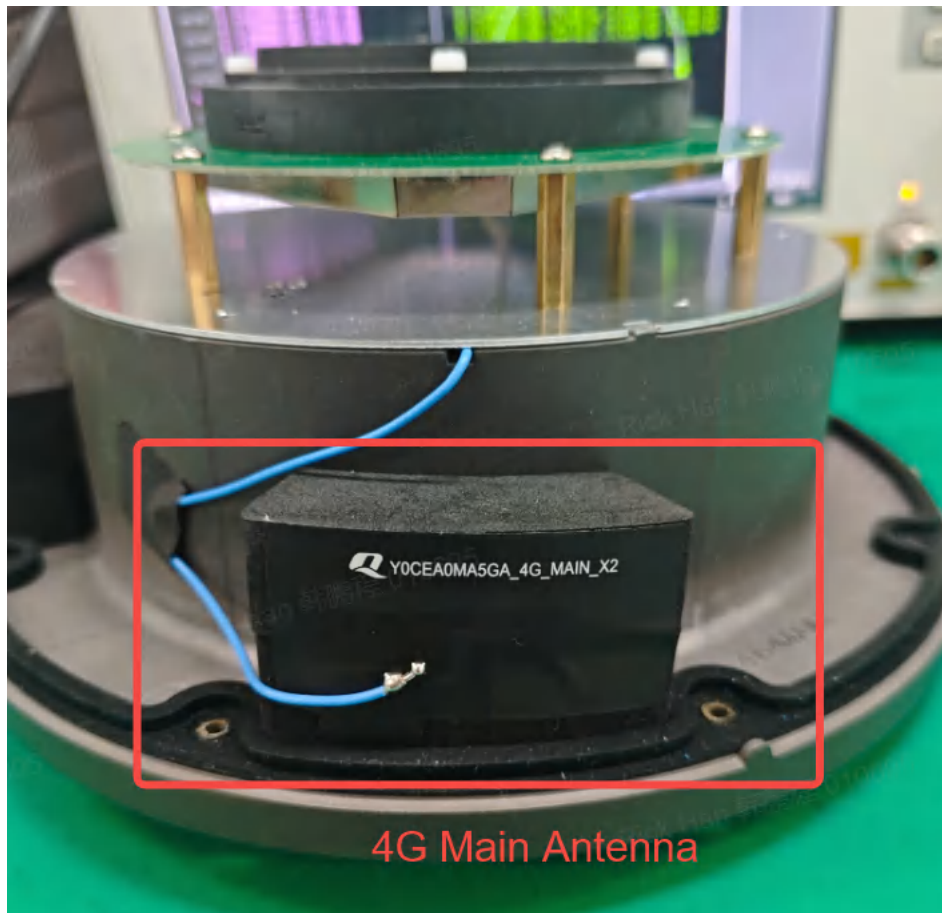
Electrical	
Frequency Range	698–960 MHz, 1710–2690 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 6.5
Peak Gain	4.5 dBi

1.2. Mechanical & Environmental

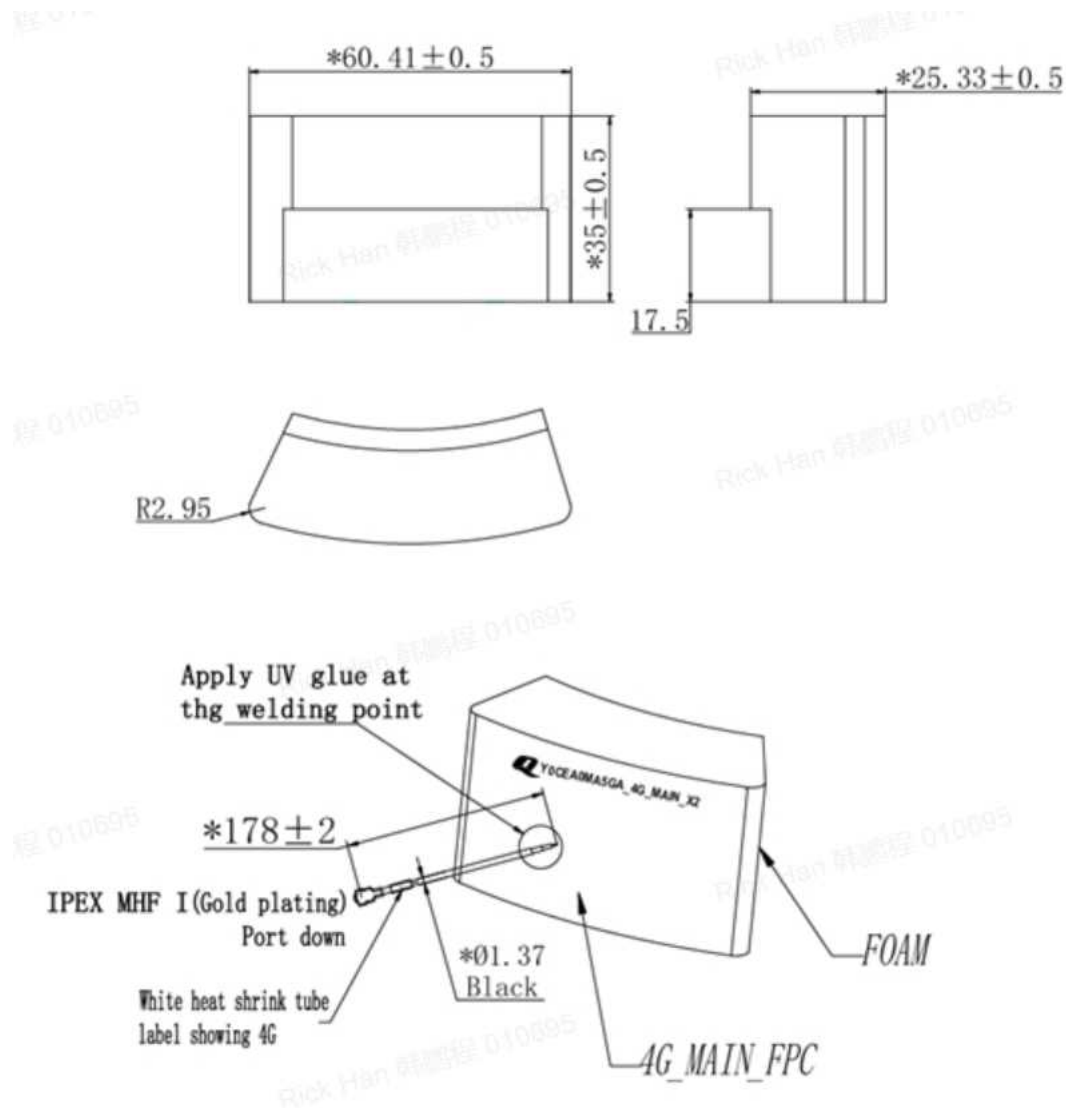
Mechanical	
Antenna Dimensions	60.41 mm × 35 mm × 25.33 mm
Material & Color	FPC+EVA & Black
Cable Type & Color & Length	$\Phi 1.37$ & Blue & 178mm
Connector Type	IPEX MHF 1
Weight	Typ. 7.0 g
Mounting Type	Adhesive
Environmental	
Operation Temperature	-40 °C to +85 °C

Storage Temperature	-40 °C to +85 °C
RoHS Compliant	Yes

1.3. Antenna Assembly



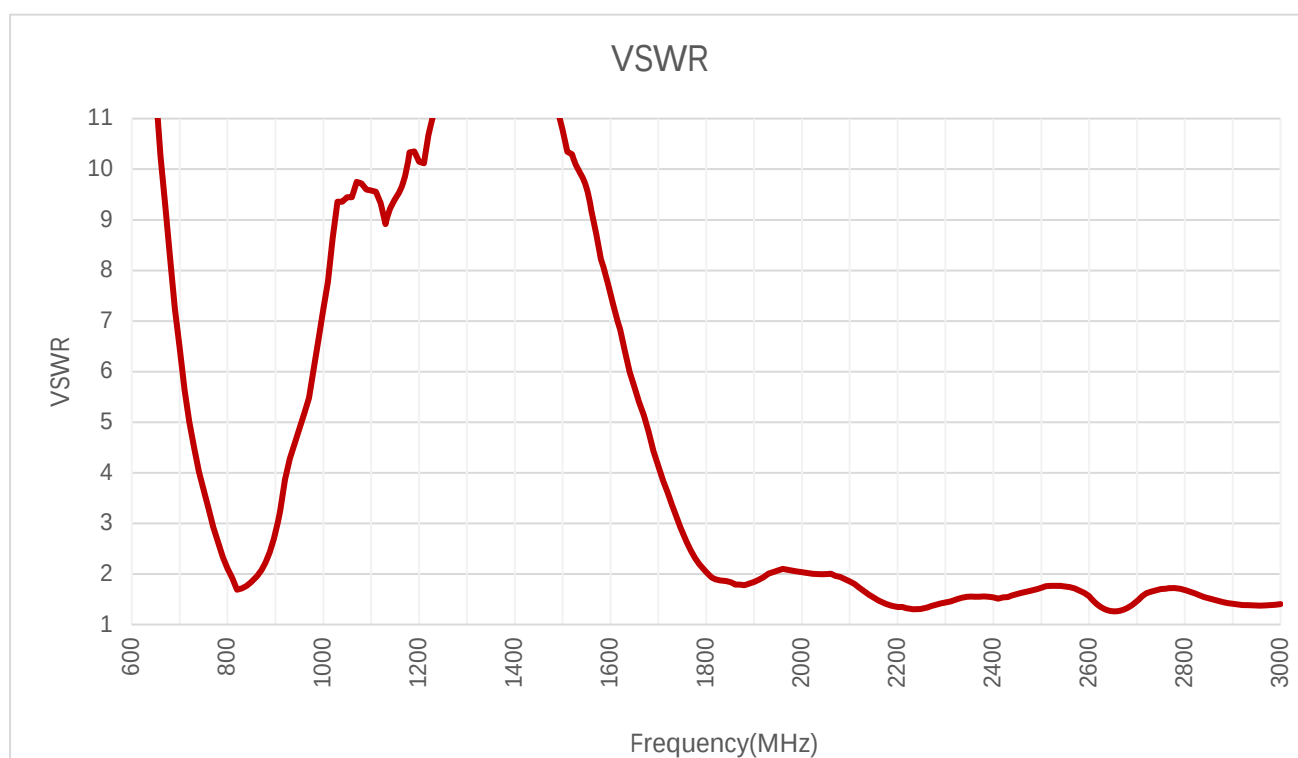
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

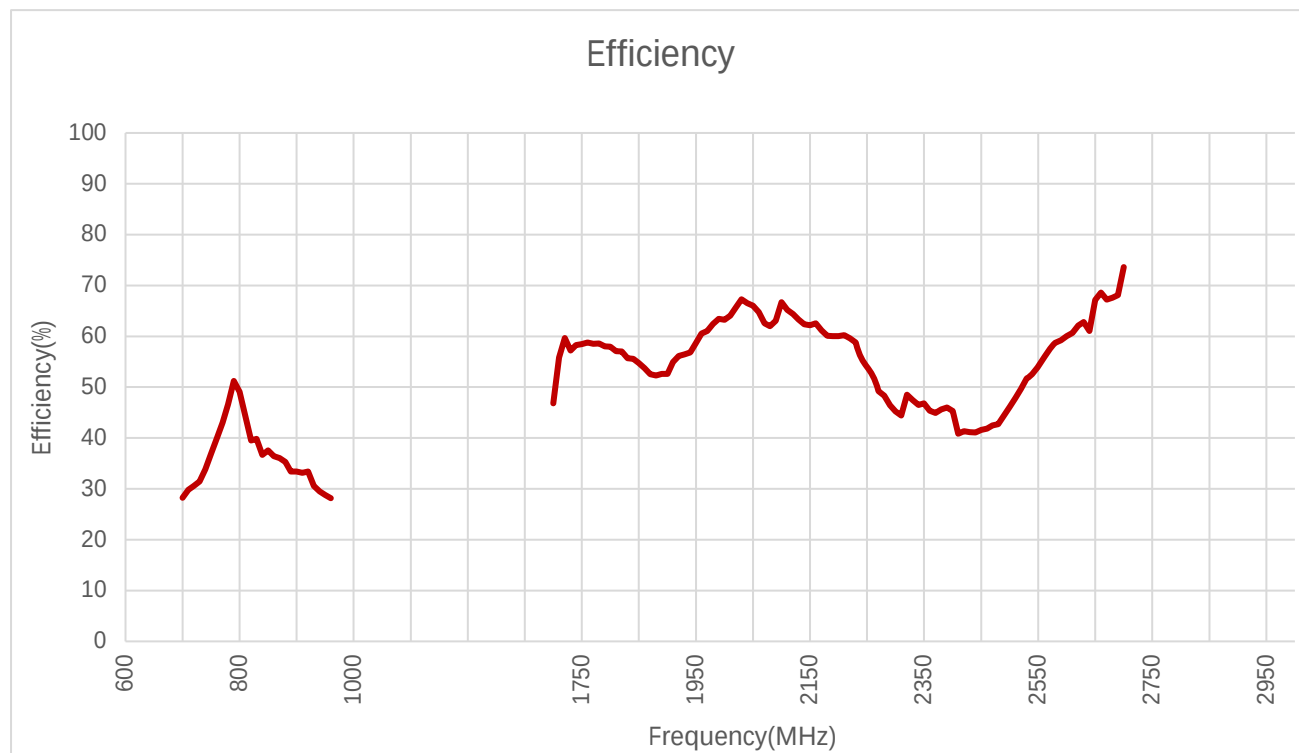


VSWR

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
VSWR	-	-	5.7	1.7	2.8	5.2	-	3.8	3.1	1.8
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
VSWR	2.1	1.6	1.5	1.6	1.6	1.4	-	-	-	-

3.2. Radiation Performance Test

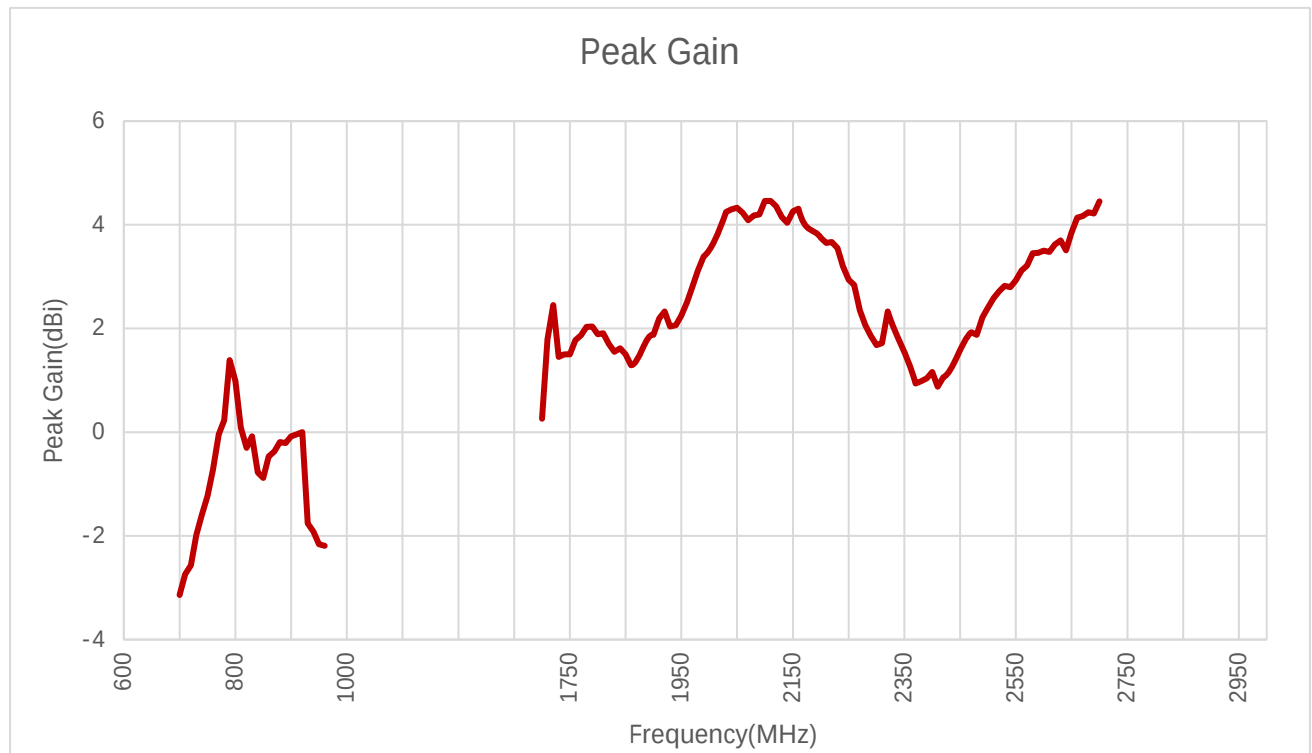
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Efficiency (%)	-	-	29.8	39.8	33.4	28.2	-	55.9	58.3	52.3
Frequency (MHz)	1950	2140	2350	2450	2600	2690	4700	5000	5500	6000
Efficiency (%)	58.7	62.3	46.8	41.6	60.1	68.1	-	-	-	-

3.2.2. Peak Gain

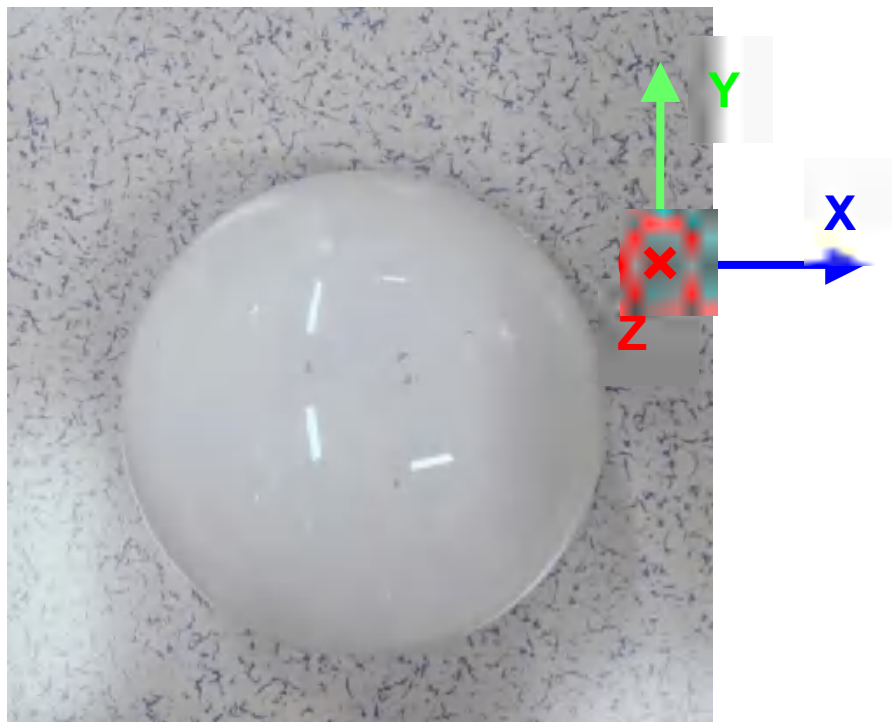


Peak Gain (dBi)

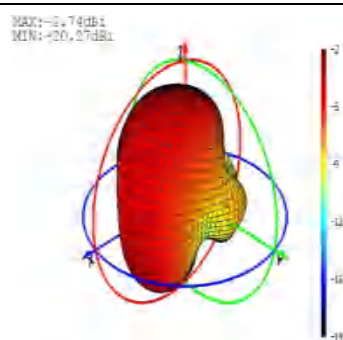
Frequency (MHz)	600	630	710	830	900	960	1520	1710	1740	1880
Peak Gain (dBi)	-	-	-2.7	-0.1	-0.1	-2.2	-	1.8	1.5	1.6
Frequency (MHz)	1950	2140	2350	2450	2600	2690	B7	B13	B26	6000
Peak Gain (dBi)	2.3	4.0	1.7	1.6	3.5	4.2	3.2	1.4	0.1	-

3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: FS-S-1



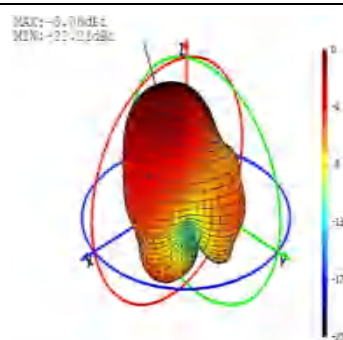
710 MHz



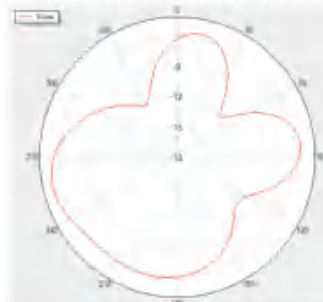
Theta=90 Freq=710MHz



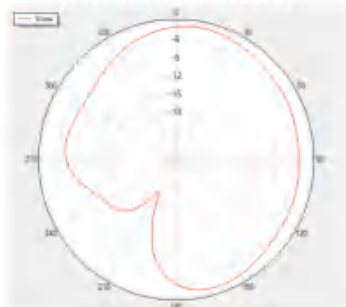
830 MHz



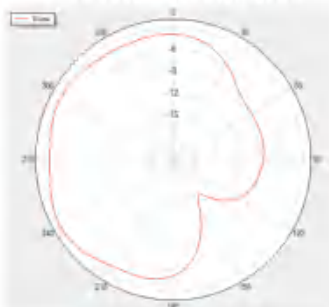
Theta=90 Freq=830MHz



Phi=0 Freq=710MHz



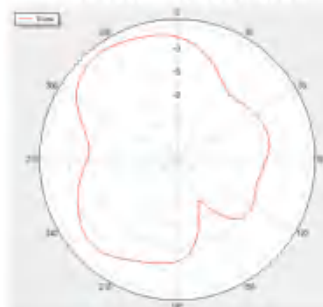
Phi=90 Freq=710MHz



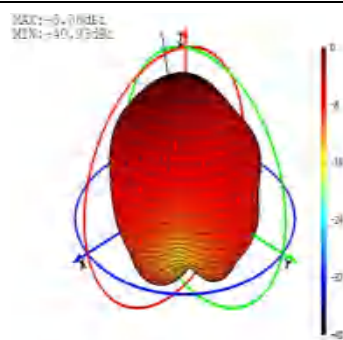
Phi=0 Freq=830MHz



Phi=90 Freq=830MHz



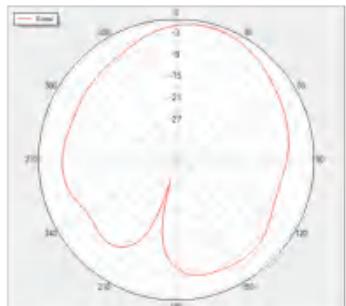
900 MHz



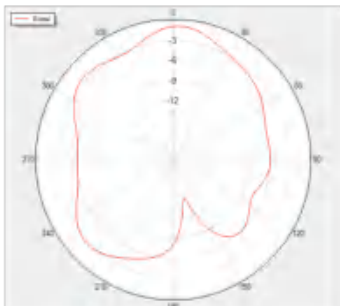
Theta=90 Freq=900MHz

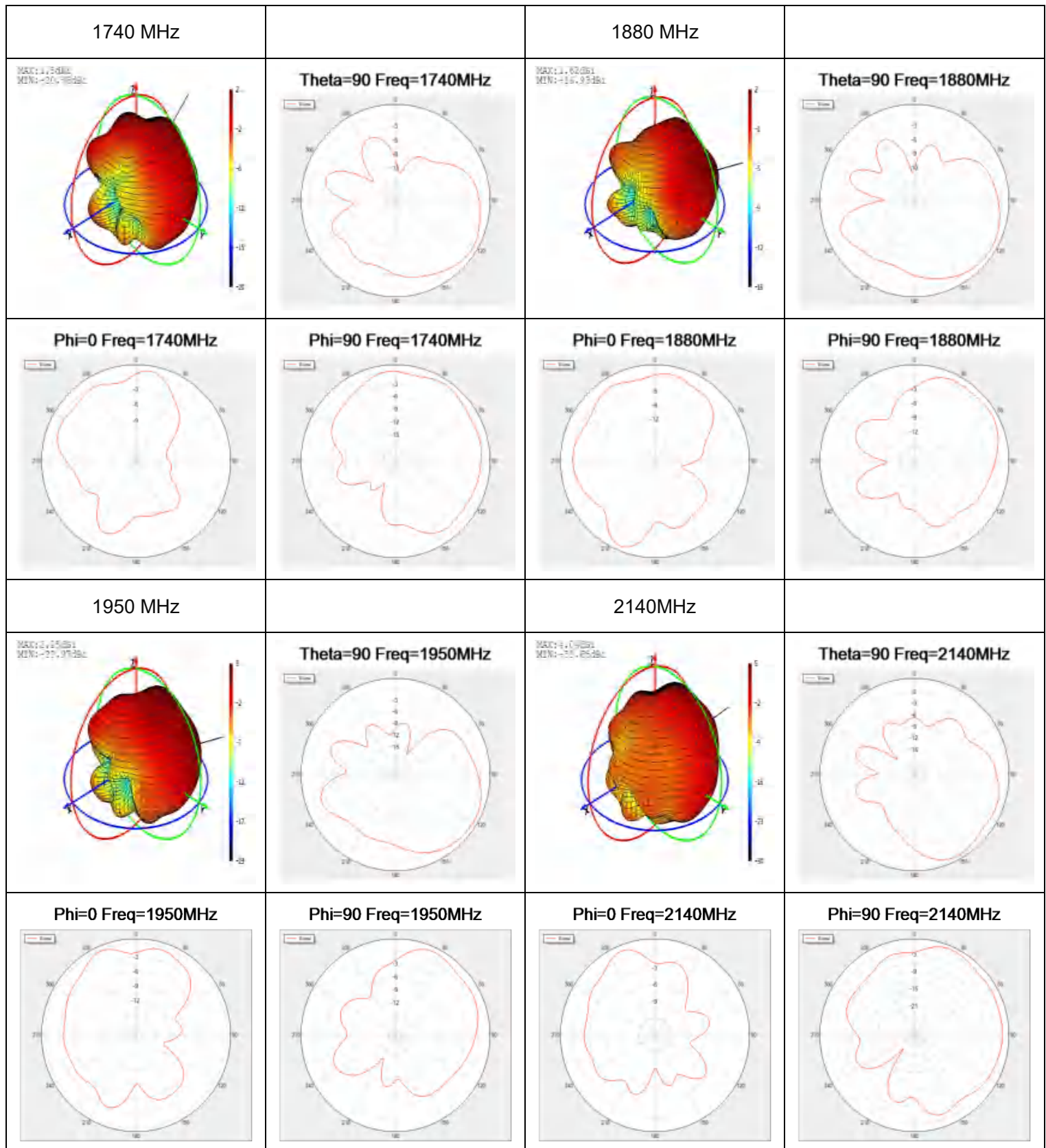


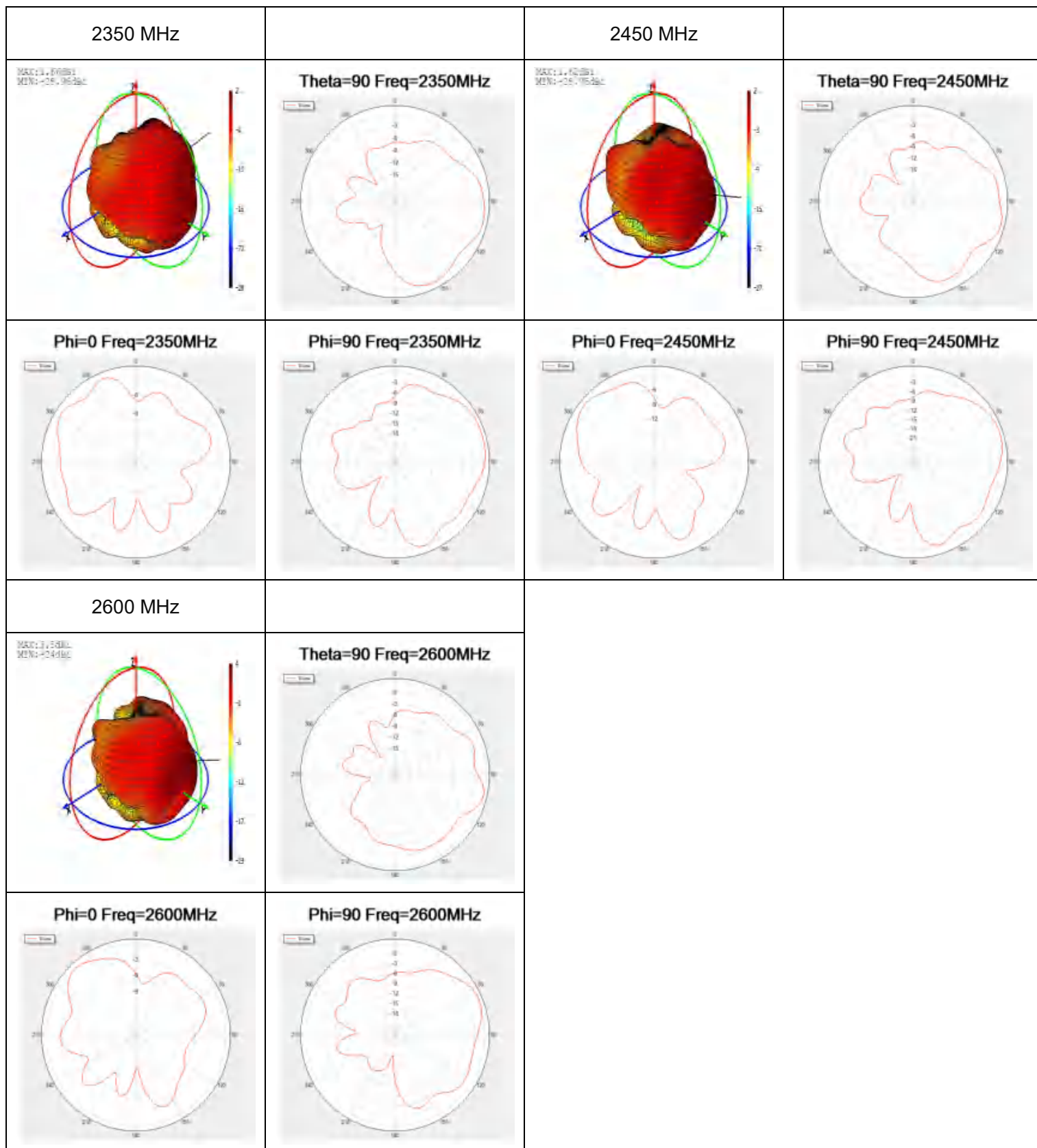
Phi=0 Freq=900MHz



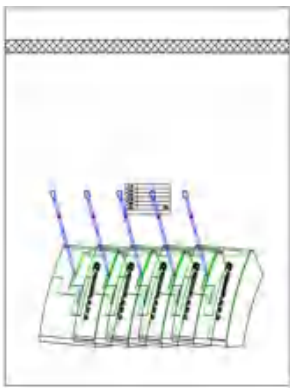
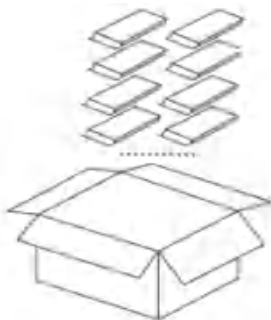
Phi=90 Freq=900MHz

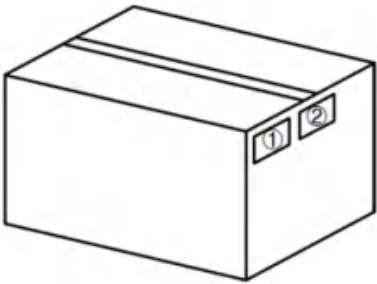
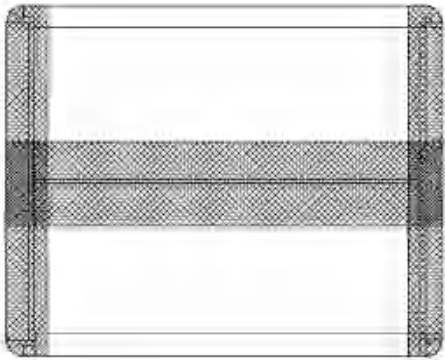






4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		10 antenna products in a PE bag. (10 Antennas / PE Bag)
3		(20 PE Bags / Carton Box) (200 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 = 370 × 370 × 295 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

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Revision History

Version	Date	Author	Note
-	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	Creation of the document
1.0	2025-09-13	Owen Deng/ Lucky Feng/ Riva Ren/ Rainey Liao	First official release



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Antenna Datasheet

Product OC: Y0CEA0MK0AA

Version: 1.0

Date: 2026-07-07

Product Name: 5G Terminal Mount Rubber Dipole External Antenna

Key Features:

Frequency Band: 600–960 MHz, 1710–2690 MHz, 3300–6000 MHz

Dimensions: 231 mm × 54.6 mm × 14.5 mm

Efficiency: Up to 86 % (FS)

RoHS and REACH Compliant

IP66 (housing)

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1 Specification

Test Condition: In Free Space & On 130 mm × 130 mm EVB

1.1. Electrical

Electrical	
Frequency Range	600–960 MHz, 1710–2690 MHz, 3300–6000 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional

Electrical – Detail													
SPEC	Band	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	FS	1.5	1.3	1.7	-	2.5	1.3	1.2	1.5	1.9	1.3	1.4	
	EVB	1.8	1.7	2.6	-	2.5	1.6	1.3	1.2	1.9	1.8	3.3	
Max. Return Loss (dB)	FS	-13.7	-17.8	-11.9	-	-7.5	-18.3	-21.1	-13.9	-10.1	-17.4	-14.9	
	EVB	-10.6	-11.7	-7.0	-	-7.3	-12.5	-17.1	-21.0	-10.1	-10.7	-5.4	
AVG Eff. (%)	FS	66.4	70.6	56.2	-	65.5	80.4	73.3	77.6	69.4	66.3	59.5	
	EVB	60.8	79.0	75.2	-	69.7	74.5	72.4	72.0	67.1	57.7	51.9	
AVG AVG Gain (dB)	FS	-1.8	-1.5	-2.5	-	-1.8	-0.9	-1.3	-1.1	-1.6	-1.8	-2.3	
	EVB	-2.2	-1.0	-1.3	-	-1.6	-1.3	-1.4	-1.4	-1.7	-2.4	-2.9	
Max. Peak Gain (dBi)	FS	1.5	1.1	1.7	-	1.5	3.7	3.4	4.0	5.3	5.5	4.2	
	EVB	0.1	1.5	1.4	-	3.1	4.2	4.3	4.3	3.5	4.0	4.1	
VSWR	FS	≤ 2.5											

	EVB	≤ 3.3
Return Loss	FS	≤ -7.5 dB
	EVB	≤ -5.4 dB
Peak Gain	FS	≤ 5.5 dBi
	EVB	≤ 4.3 dBi

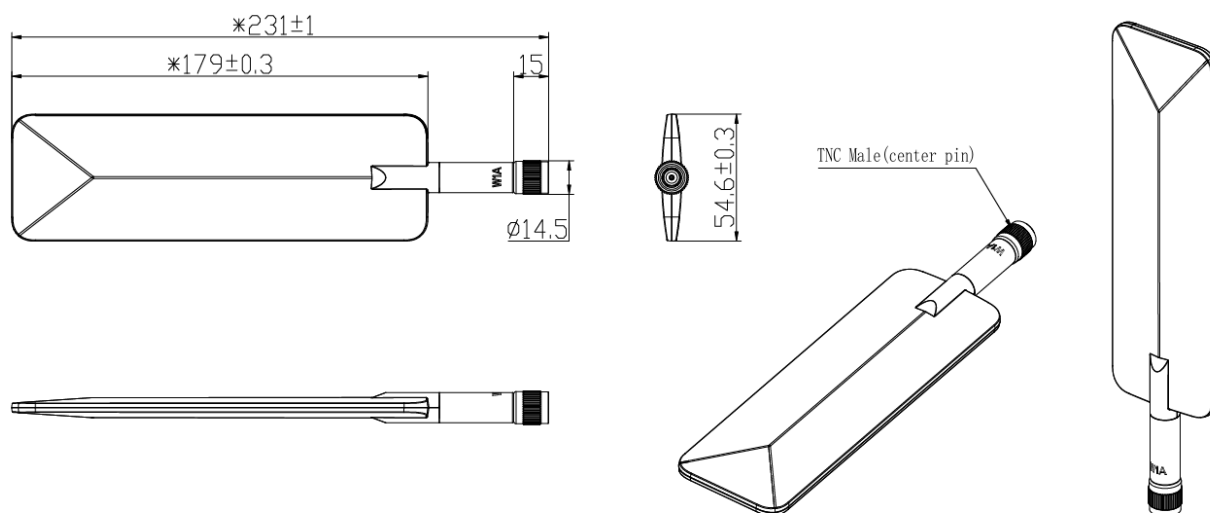
Note:

- FS: In Free Space
- EVB: On 130 mm × 130 mm EVB

1.2. Mechanical & Environmental

Mechanical	
Antenna Dimensions	231 mm × 54.6 mm × 14.5 mm
Casing Material & Color	PC & Black
Connector Type	TNC Male
Mounting Type	Terminal
Weight	Typ. 83.4 g
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Ingress Protection (IP) Rating	Antenna plastic housing could meet IP66
RoHS & REACH Compliant	Yes
Housing Flame Rating	UL 94 V-0
Housing UV Resistant	UL 746c f1

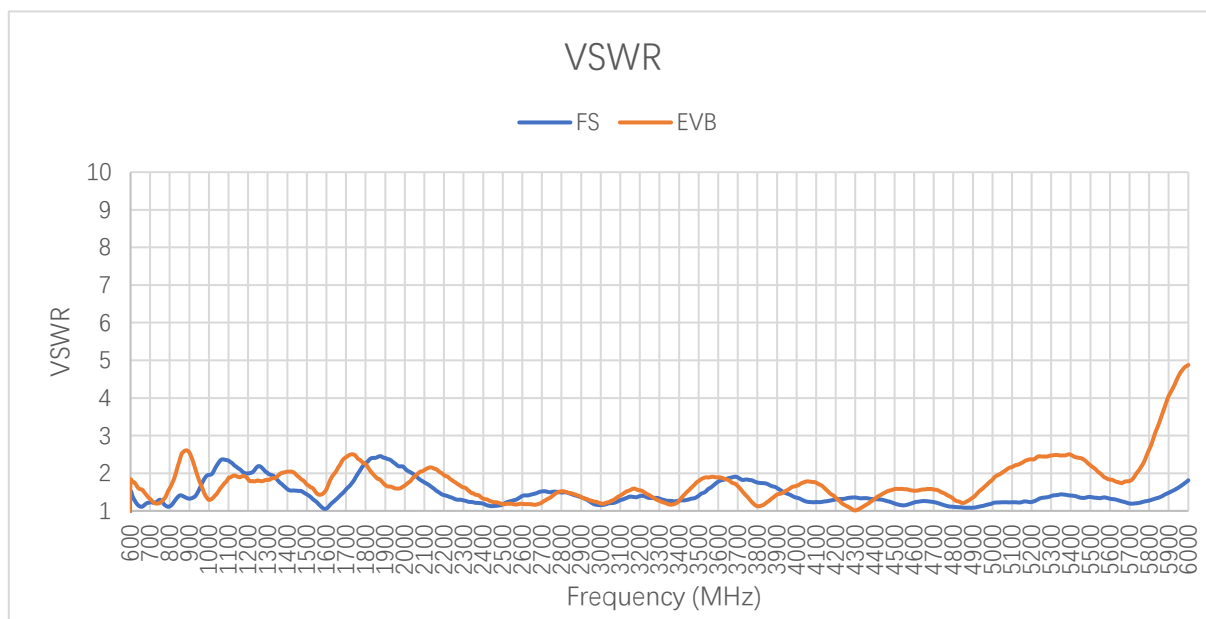
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

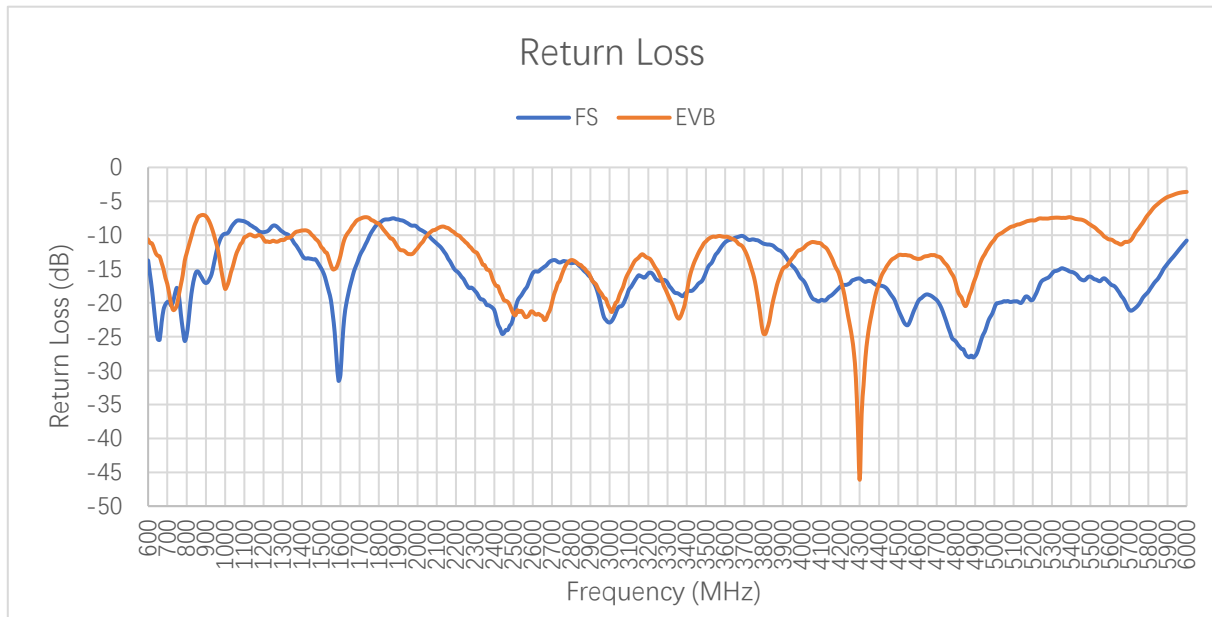
3.1.1. VSWR



VSWR

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
FS	1.5	1.2	1.2	1.3	1.3	1.7	-	1.6	1.8	2.4
EVB	1.8	1.7	1.3	2.0	2.6	1.7	-	2.5	2.5	1.8
Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
FS	2.3	1.6	1.2	1.1	1.4	1.8	1.2	1.2	1.4	1.8
EVB	1.6	2.1	1.5	1.2	1.2	1.9	1.6	1.8	2.2	4.9

3.1.2. Return Loss

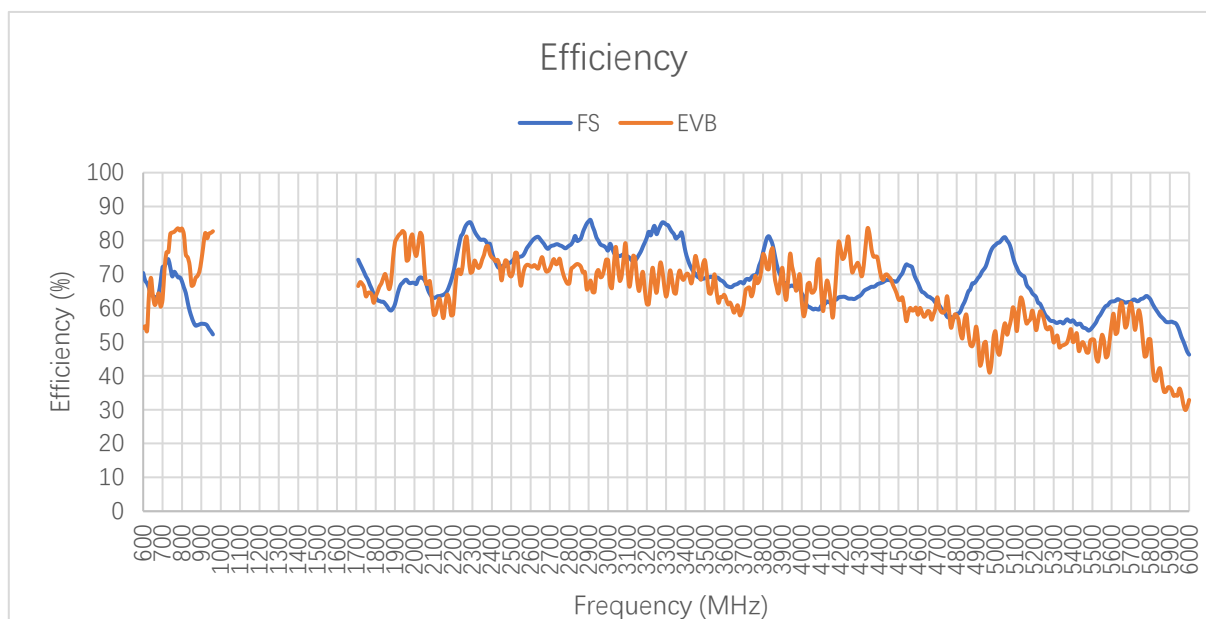


Return Loss (dB)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
FS	-13.7	-20.7	-19.9	-17.7	-17.1	-11.9	-	-12.5	-10.8	-7.5
EVB	-10.6	-11.9	-18.7	-9.7	-7.2	-11.9	-	-7.5	-7.4	-10.9
Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
FS	-8.3	-12.5	-19.8	-24.5	-15.6	-11.1	-19.6	-20.8	-16.1	-10.8
EVB	-12.8	-8.8	-14.4	-19.6	-21.3	-10.2	-13.1	-10.7	-8.5	-3.6

3.2. Radiation Performance Test

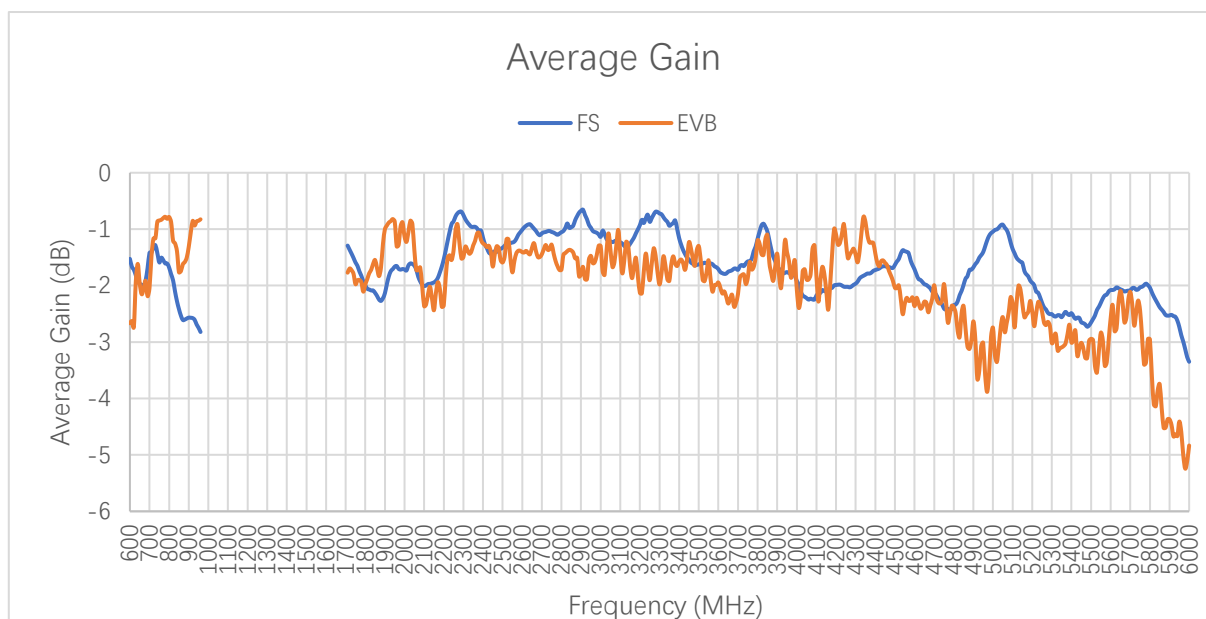
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
FS	70.4	65.8	72.3	61.6	55.4	52.2	-	74.3	70.6	59.3
EVB	54.1	64.0	71.2	75.0	73.9	82.7	-	66.5	66.2	67.9
Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
FS	68.2	63.7	80.2	72.3	79.2	67.5	61.4	78.6	54.3	46.2
EVB	82.0	59.9	74.3	68.2	72.3	63.9	63.2	53.1	50.8	32.9

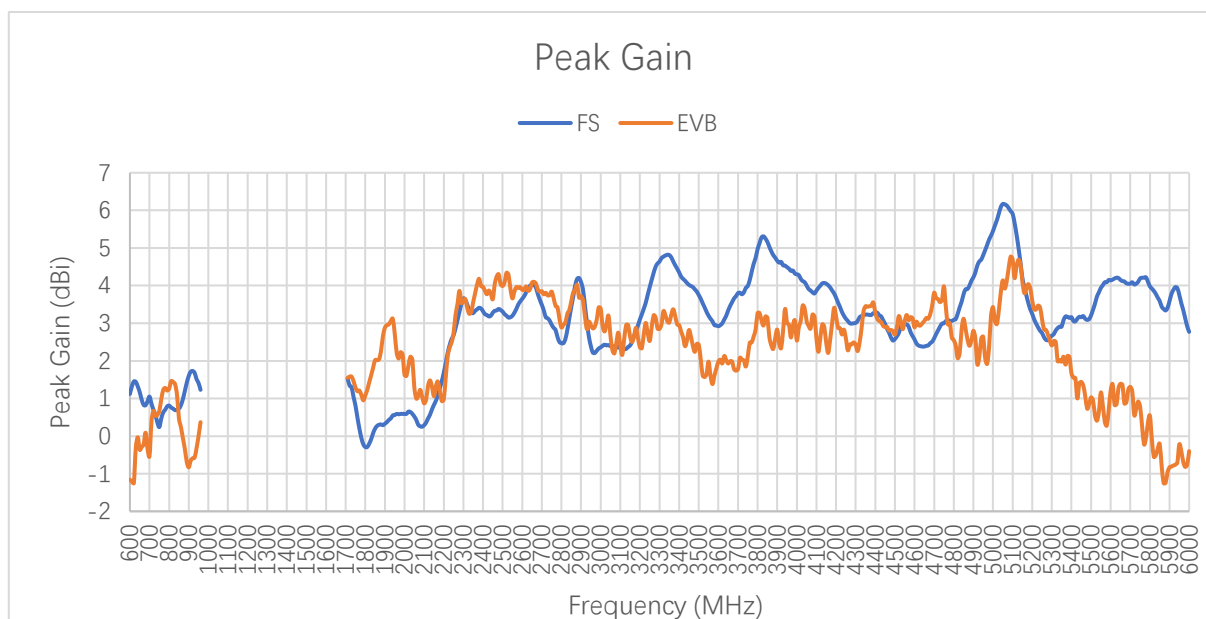
3.2.2. Average Gain



Average Gain (dB)

Frequency (MHz)	600	630	710	830	900	960	1440	1710	1740	1880
FS	-1.5	-1.8	-1.4	-2.1	-2.6	-2.8	-	-1.3	-1.5	-2.3
EVB	-2.7	-1.9	-1.5	-1.3	-1.3	-0.8	-	-1.8	-1.8	-1.7
Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
FS	-1.7	-2.0	-1.0	-1.4	-1.0	-1.7	-2.1	-1.0	-2.7	-3.3
EVB	-0.8	-2.2	-1.3	-1.7	-1.4	-1.9	-2.0	-2.8	-2.9	-4.8

3.2.3. Peak Gain



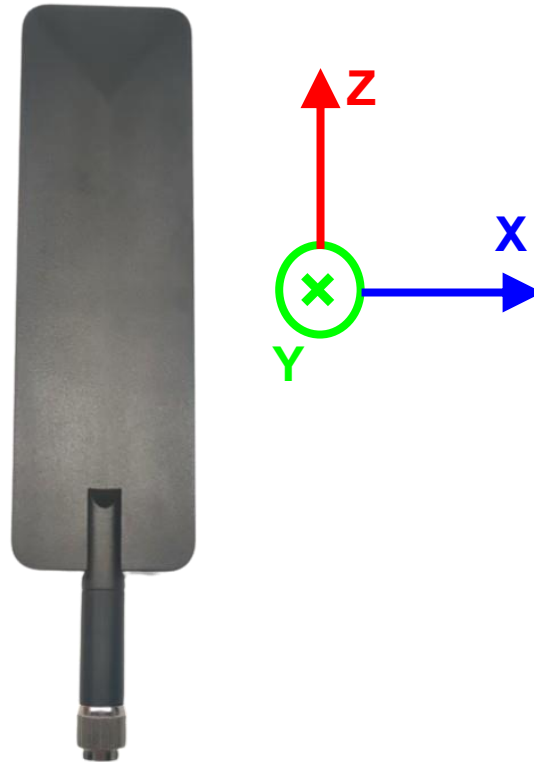
Peak Gain (dBi)

Frequency (MHz)	600	630	710	870	920	960	1440	1710	1740	1880
FS	1.1	1.4	0.9	0.98	1.73	1.2	-	1.5	1.0	0.3
EVB	-1.2	-0.3	0.4	-0.05	-0.59	0.4	-	1.6	1.5	2.3
Frequency (MHz)	1950	2140	2350	2450	2600	3600	4700	5000	5500	6000
FS	0.6	0.7	3.3	3.3	3.7	2.9	2.6	5.5	3.2	2.8
EVB	2.7	1.3	3.6	3.6	3.9	2.0	3.8	3.4	1.0	-0.4

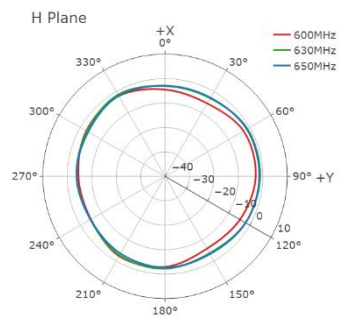
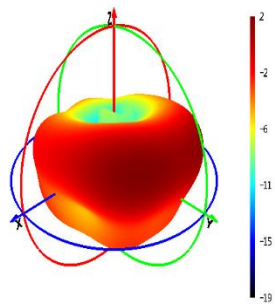
3.2.4. 3D & 2D Radiation Pattern

3.2.4.1. Test Condition: In Free Space

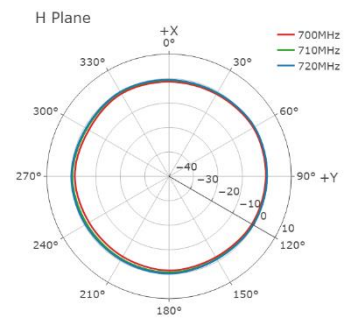
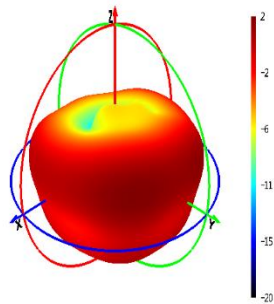
- Test Chamber: GL-S-1



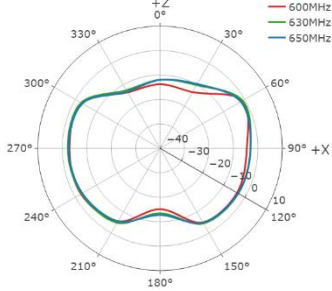
630 MHz



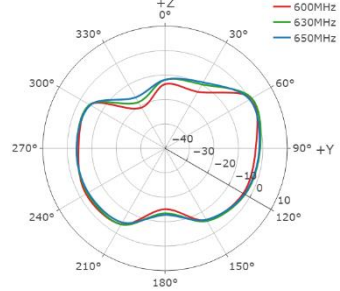
710 MHz



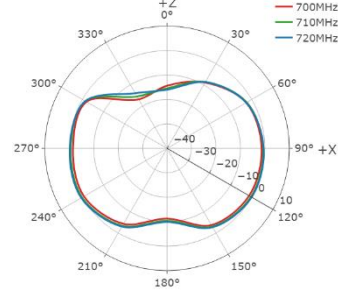
E1 Plane



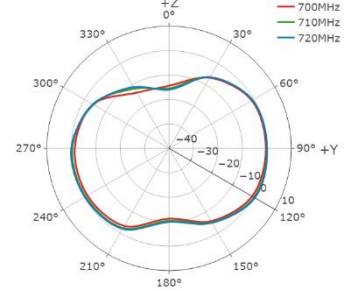
E2 Plane



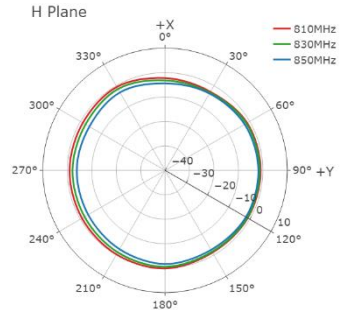
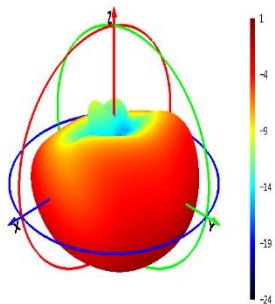
E1 Plane



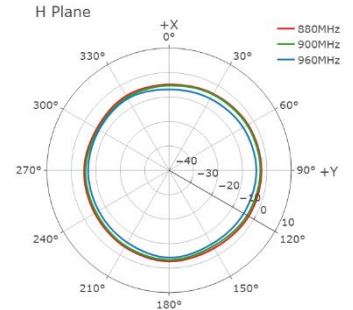
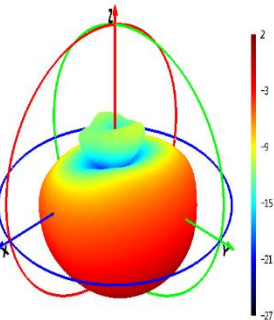
E2 Plane



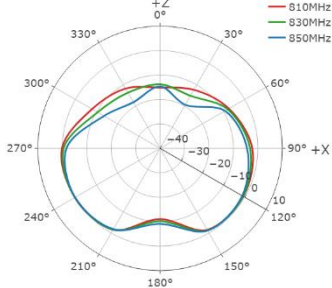
830 MHz



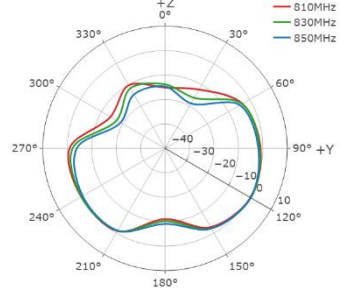
900 MHz



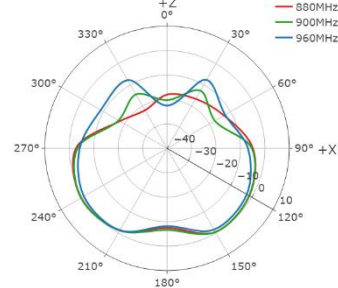
E1 Plane



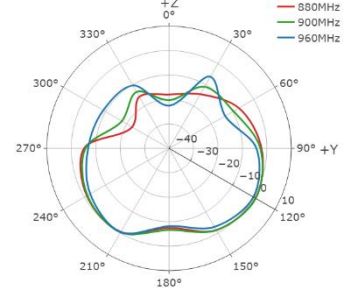
E2 Plane

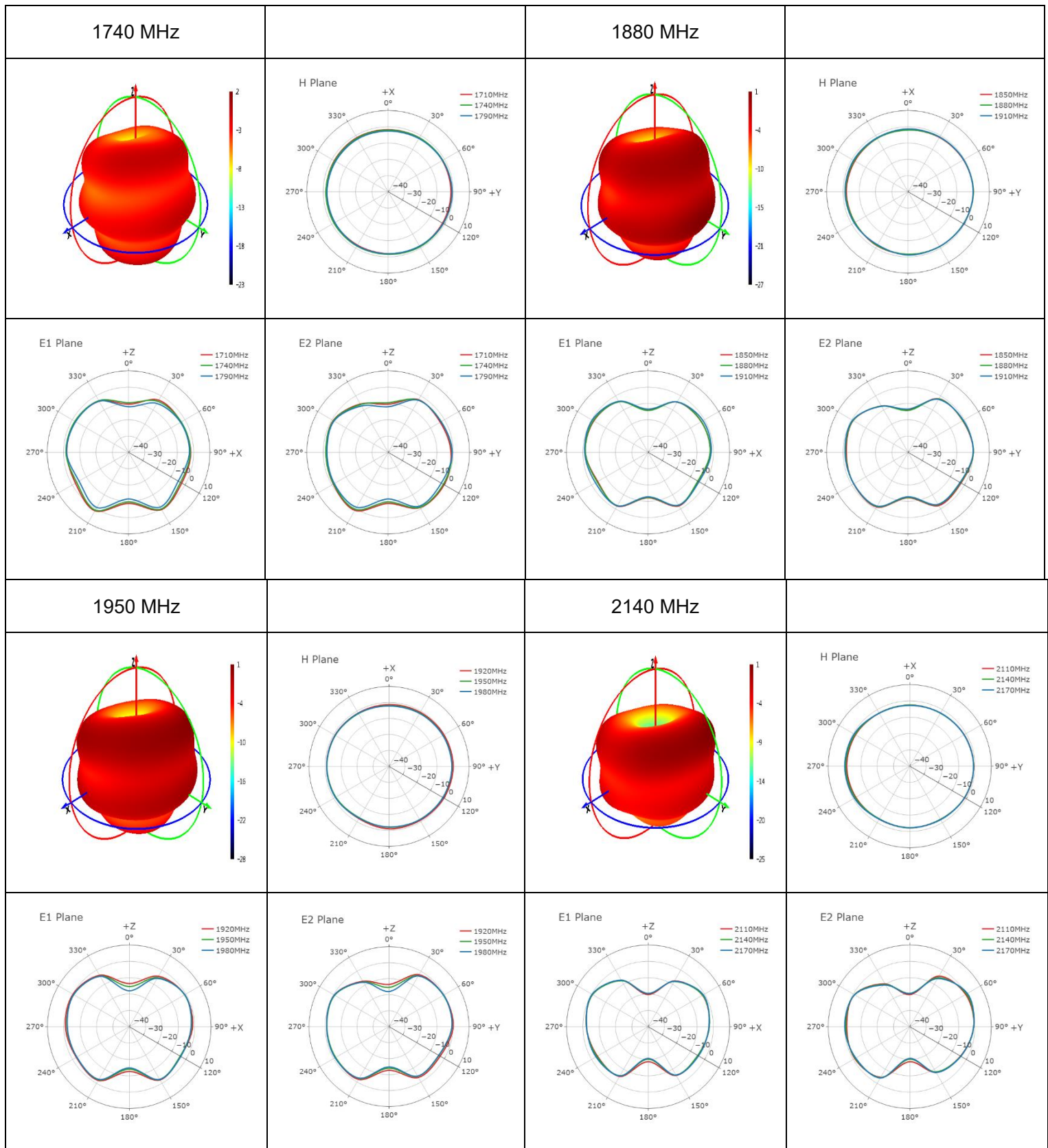


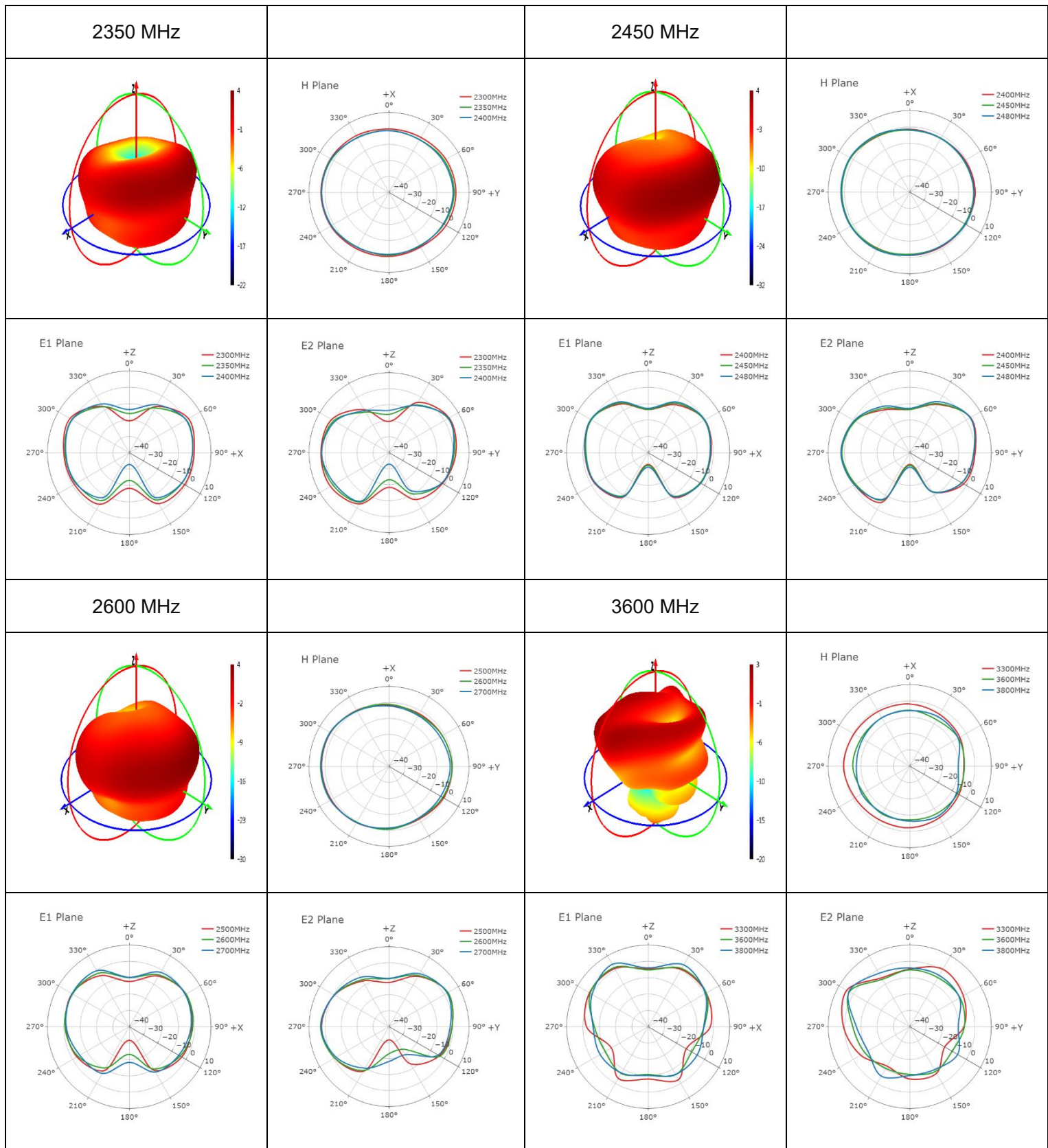
E1 Plane



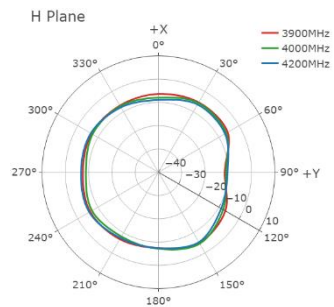
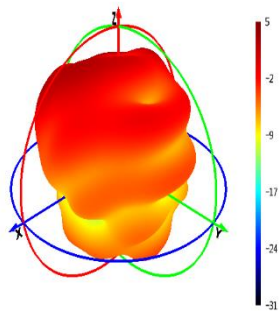
E2 Plane



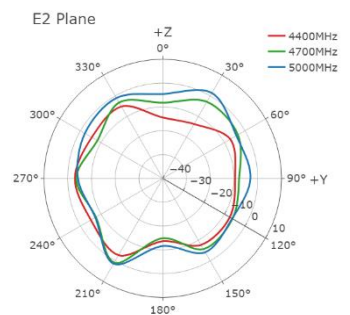
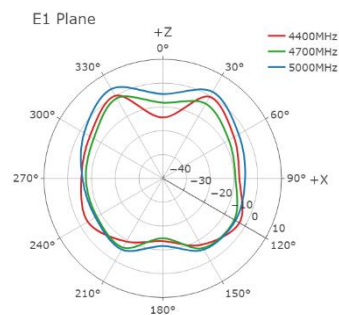
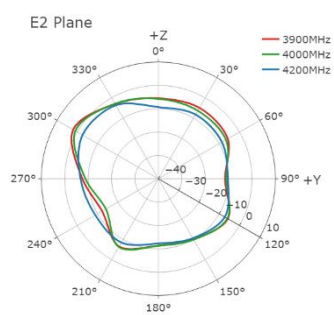
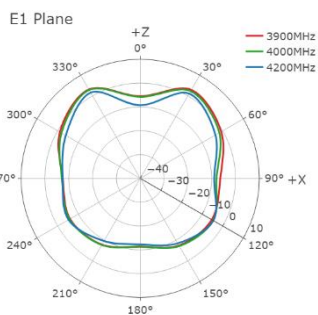
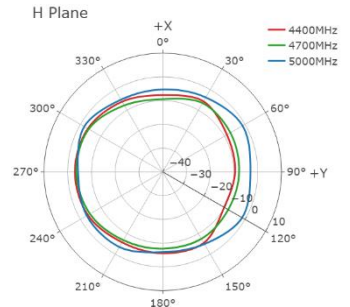
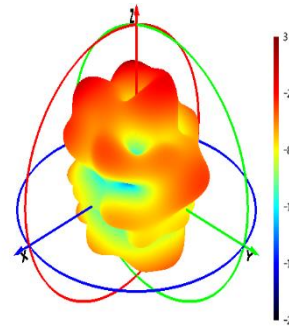




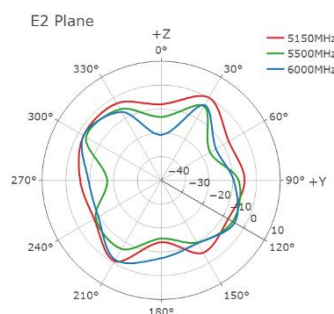
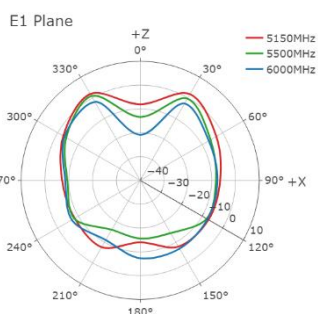
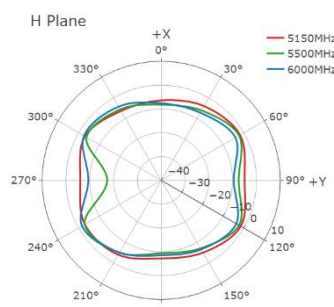
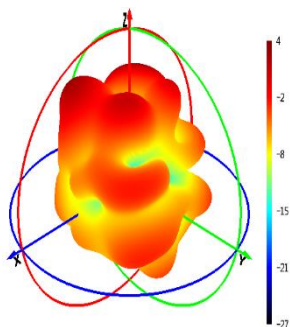
4000 MHz



4700 MHz

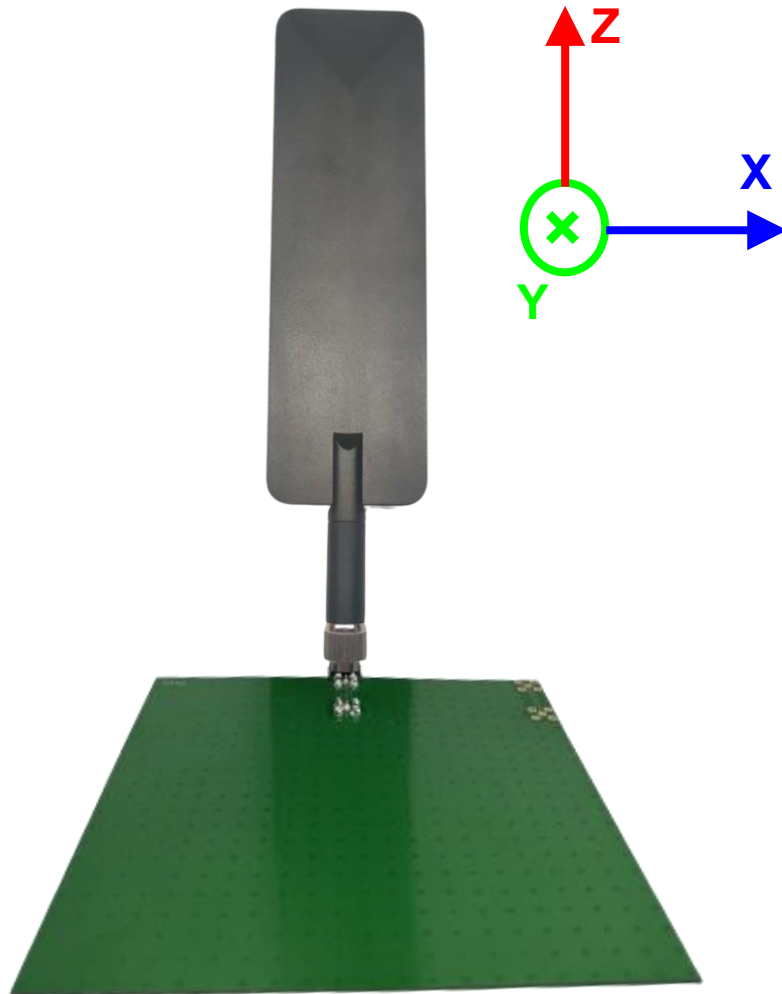


5500 MHz

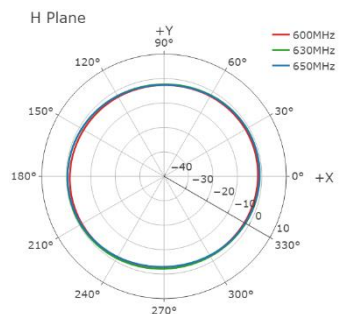
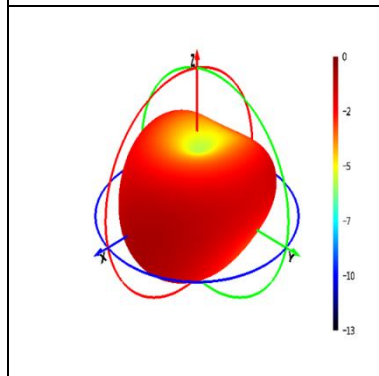


3.2.4.2. Test Condition: On 130 mm × 130 mm EVB

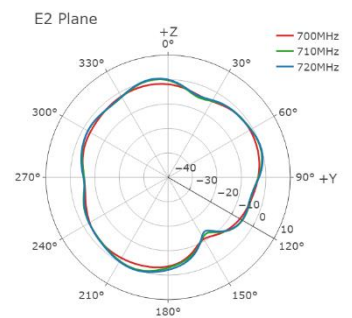
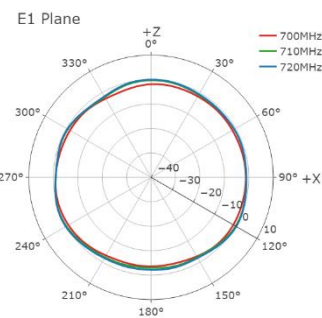
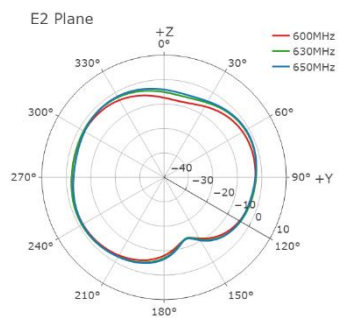
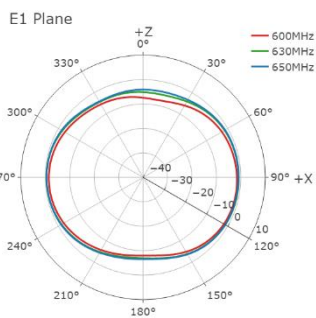
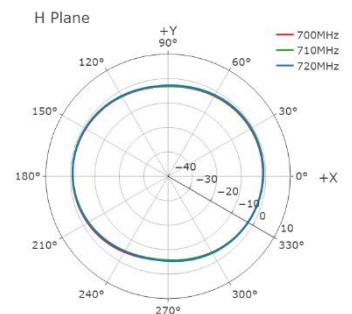
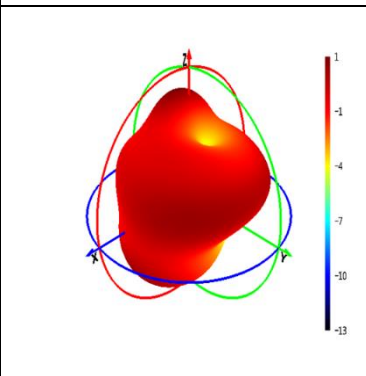
- Test Chamber: GL-S-1



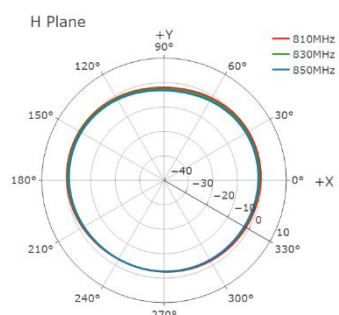
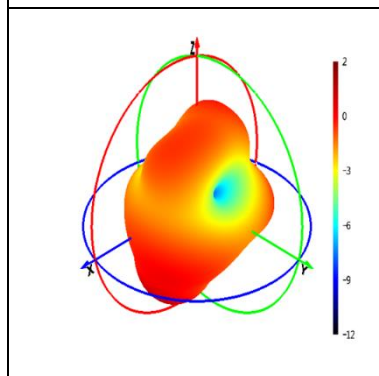
630 MHz



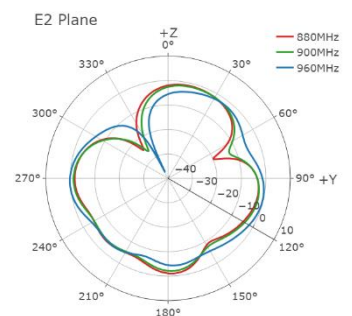
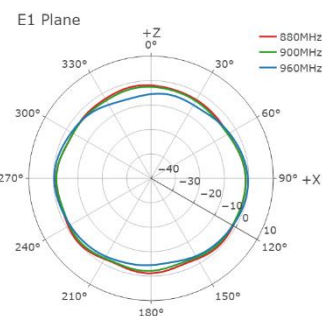
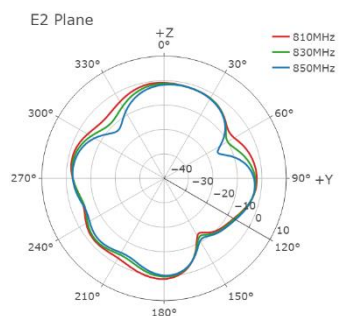
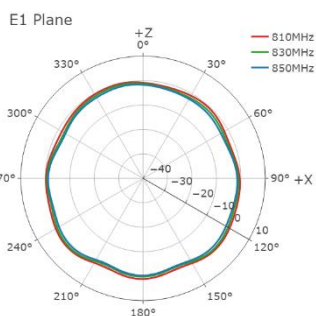
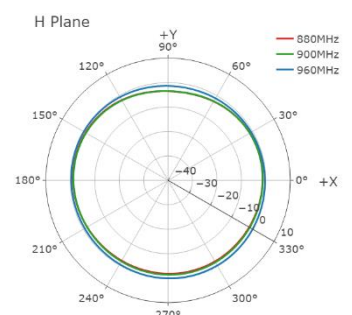
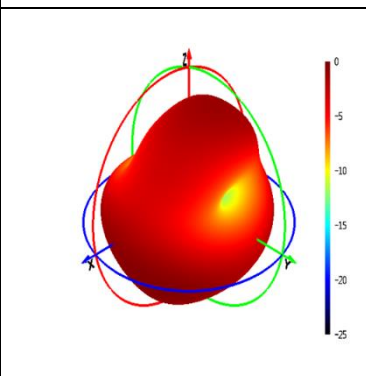
710 MHz

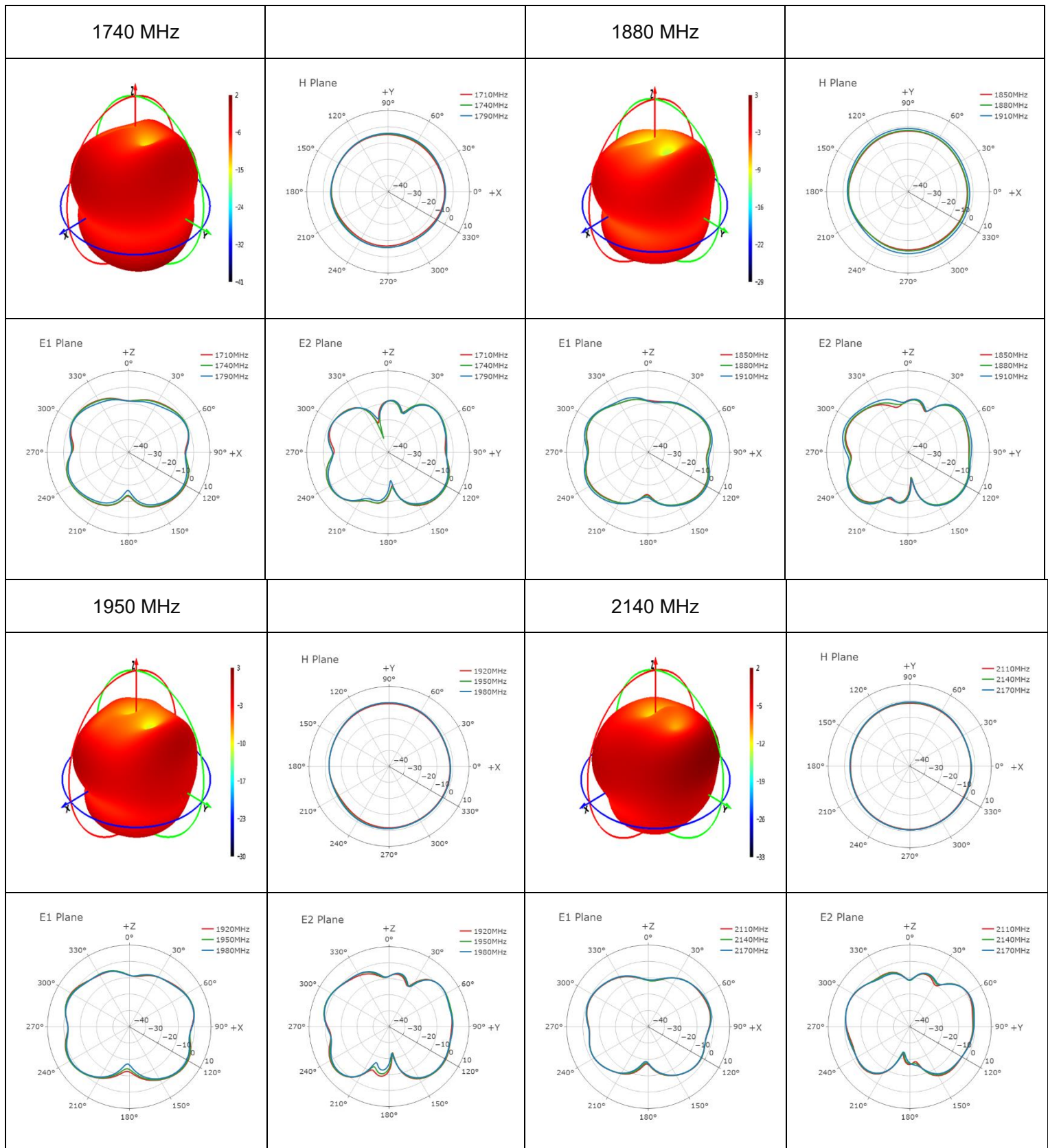


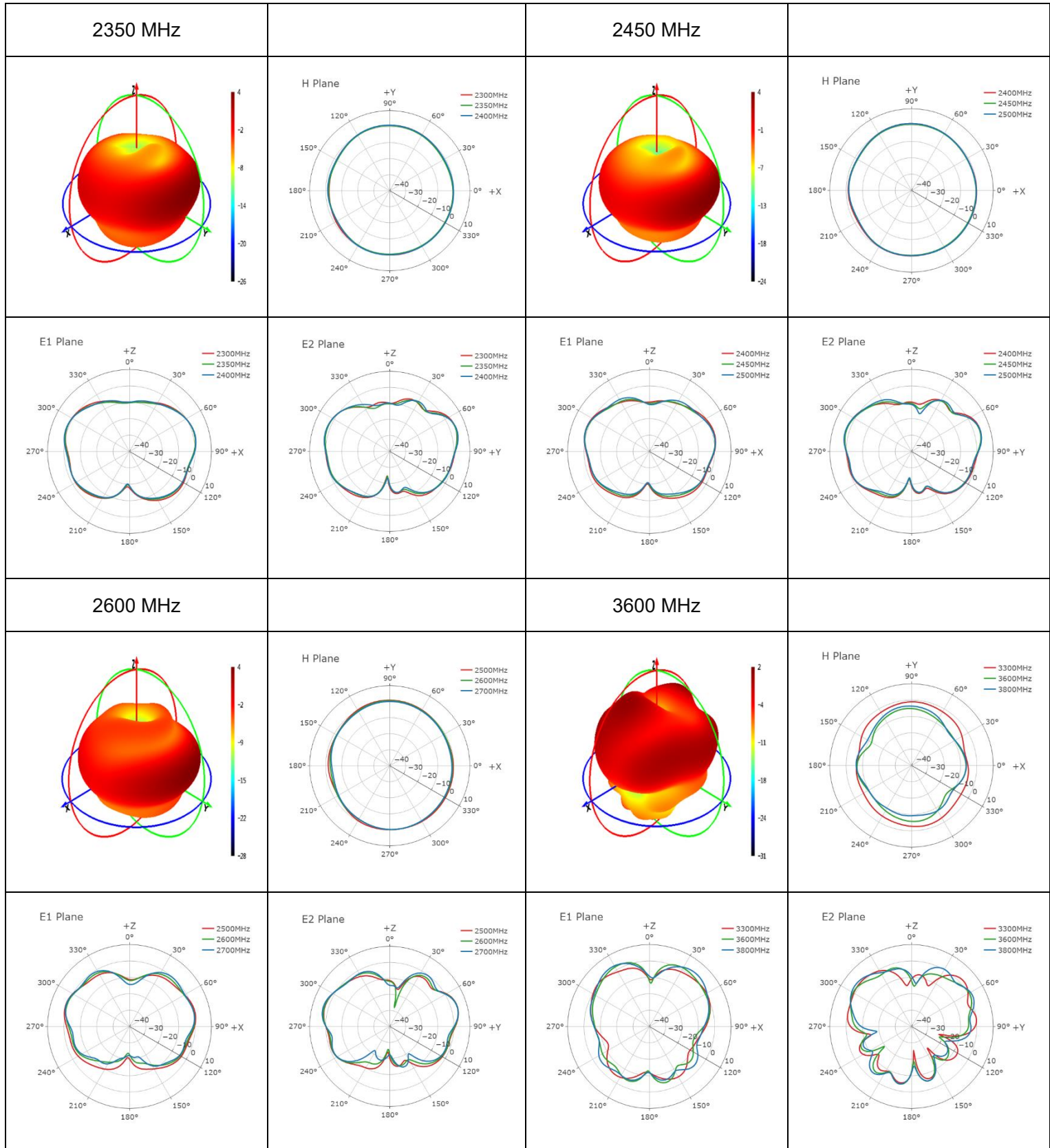
830 MHz

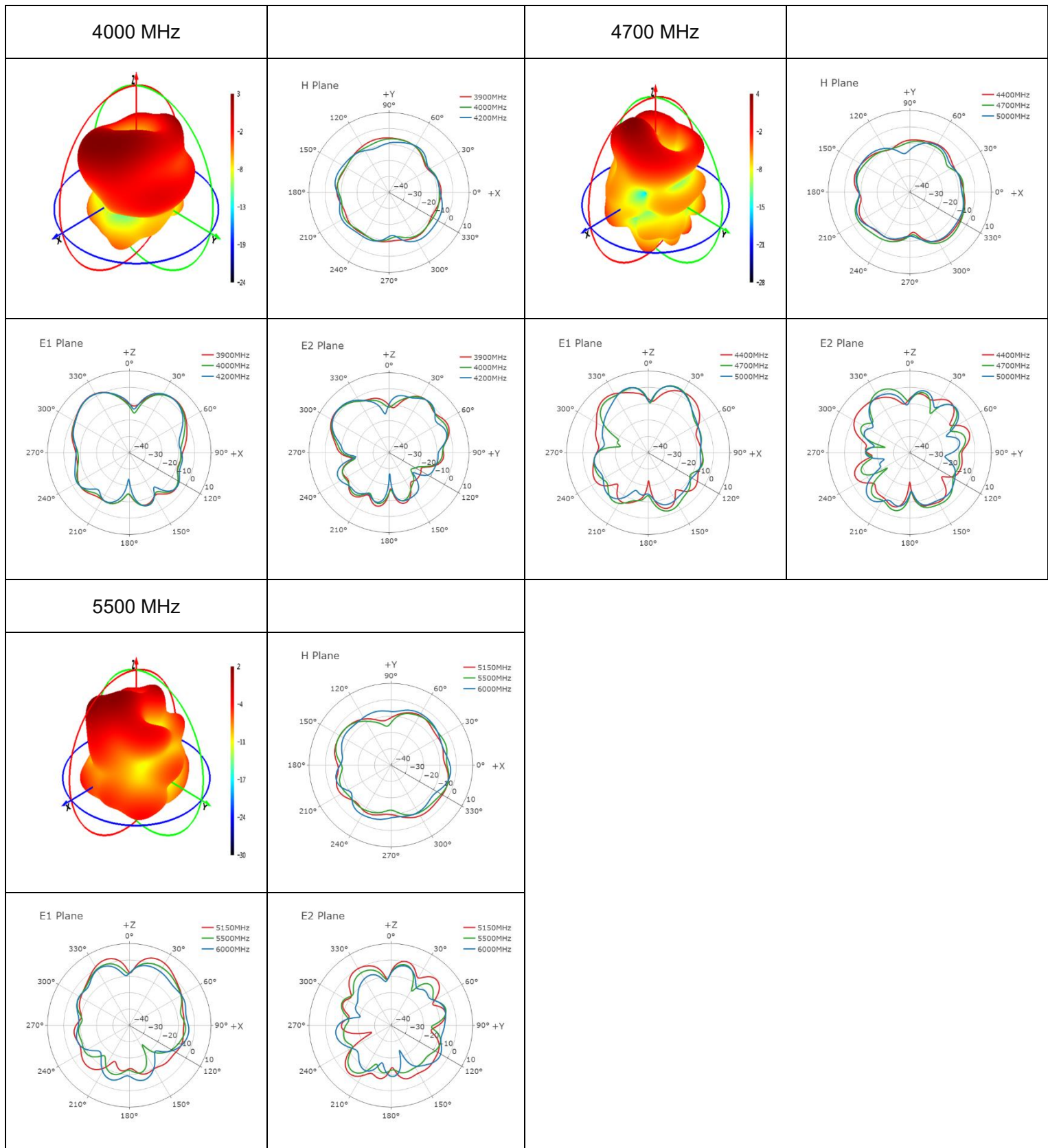


900 MHz

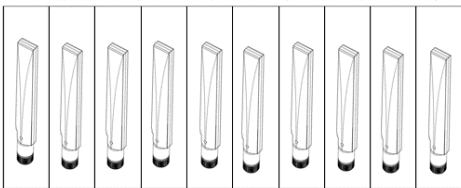
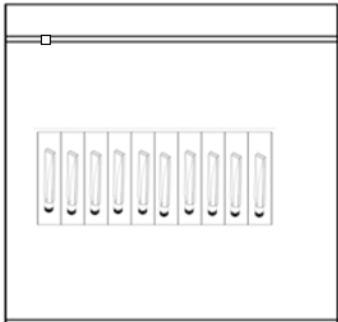
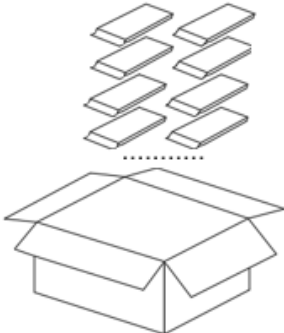
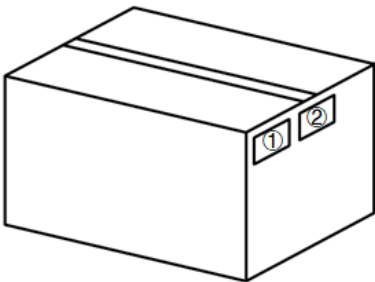


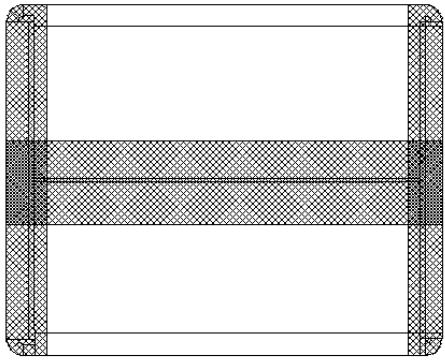






4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		10 antenna products in a one-piece bag. (10 Antennas / One-piece Bag)
2		10 antenna products in a PE bag. (10 Antennas / PE Bag)
3		(10 PE Bags / Carton Box) (100 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 = 405 × 293 × 185 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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Or our local offices. For more information, please visit:

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Revision History

Version	Date	Author	Note
-	2026-07-07	Owen Deng/ Harvey Zhang/ Piers Ji/ Rainey Liao	Creation of the document
1.0	2026-07-07	Owen Deng/ Harvey Zhang/ Piers Ji/ Rainey Liao	First official release



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