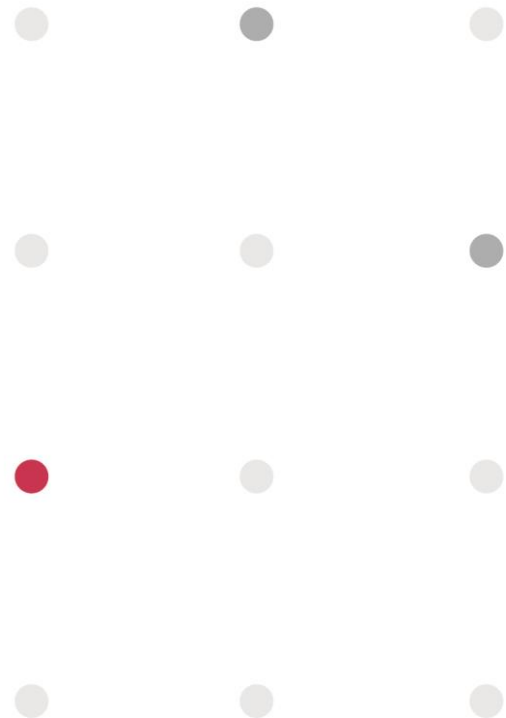


PSA

PASSIVE SYSTEM ALLIANCE
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PASSIVE SYSTEM ALLIANCE

Dlink R95

Presented by
Simon Huang
2024/08/02



Version	Date	Description	Author
V01	2024/03/19	New Release	Simon Huang
V02	2024/03/21	更新天線支數(2G * 2 pcs,5G * 2 pcs , 6G * 2 pcs)	Simon Huang
V03	2024/03/26	Solution 2 天線free space 測試	Simon Huang
V04	2024/03/26	Solution 1 天線free space 測試	Simon Huang
V05	2024/04/17	客戶提供測試外殼3D檔，測試2/5GHz * 2 pcs 6GHz * 2pcs特性	Simon Huang
V06	2024/05/13	客戶提供新機構， 調測天線至Peak Gain < 3.1dBi,效率>55%	Simon Huang
V07	2024/07/15	客戶提供新機構，調測天線至客戶需求的SPEC.	Simon Huang
V08	2024/07/29	更換線長，重新量測	Simon Huang

1. Measurement Information

1.1 Antenna Solution Detail

料號：RFDPA1917

2/5G1: Dipole Antenna

Frequency：2400 – 2500 / 5150 – 5850 MHz

外露線長：60 mm 1.37 normal ipex 一代頭

6G1: Dipole Antenna

Frequency：5925 – 7125 MHz

外露線長：100 mm 1.37 normal ipex 一代頭

6G2: Dipole Antenna

Frequency：5925 – 7125 MHz

外露線長：250 mm 1.37 normal ipex 一代頭

2/5G2: Dipole Antenna

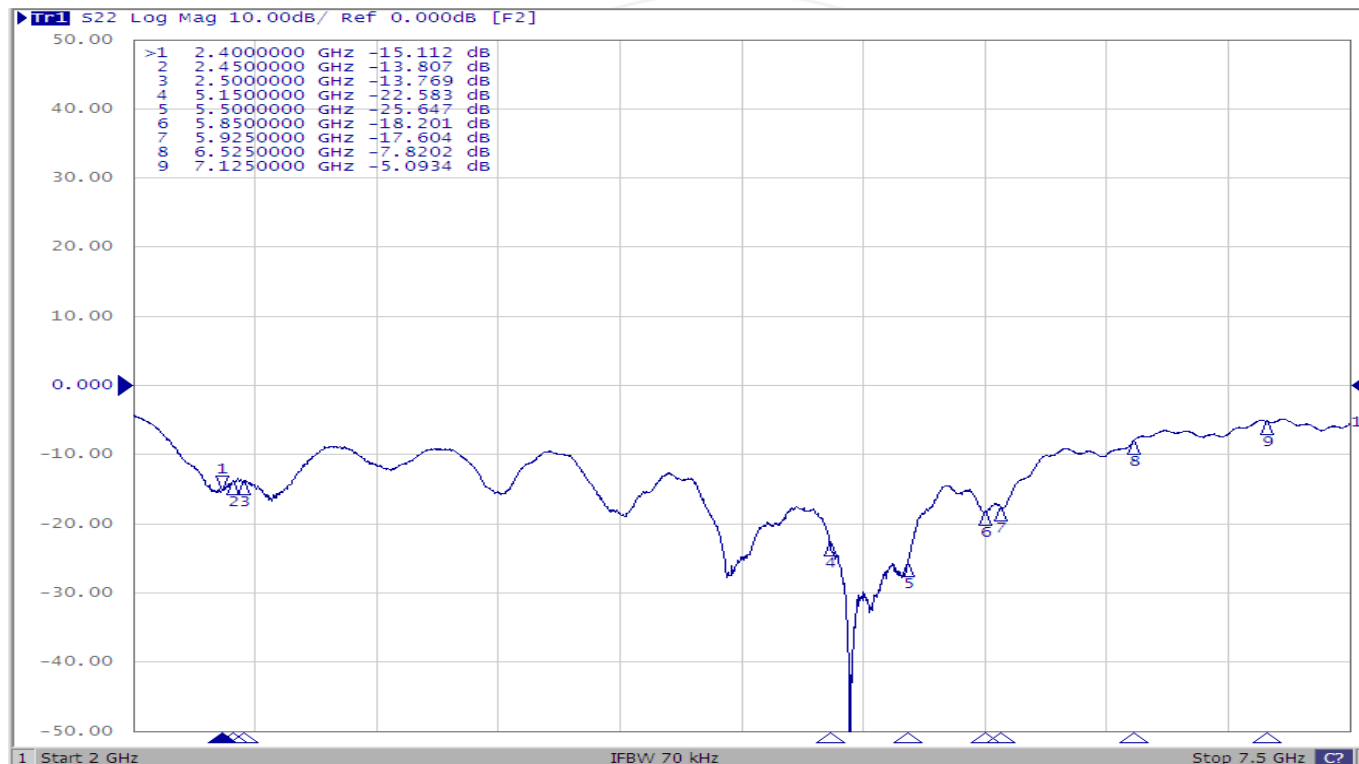
Frequency：2400 – 2500 / 5150 – 5850 MHz

外露線長：220 mm 1.37 normal ipex 一代頭

2. Antenna Characteristics

2/5G1

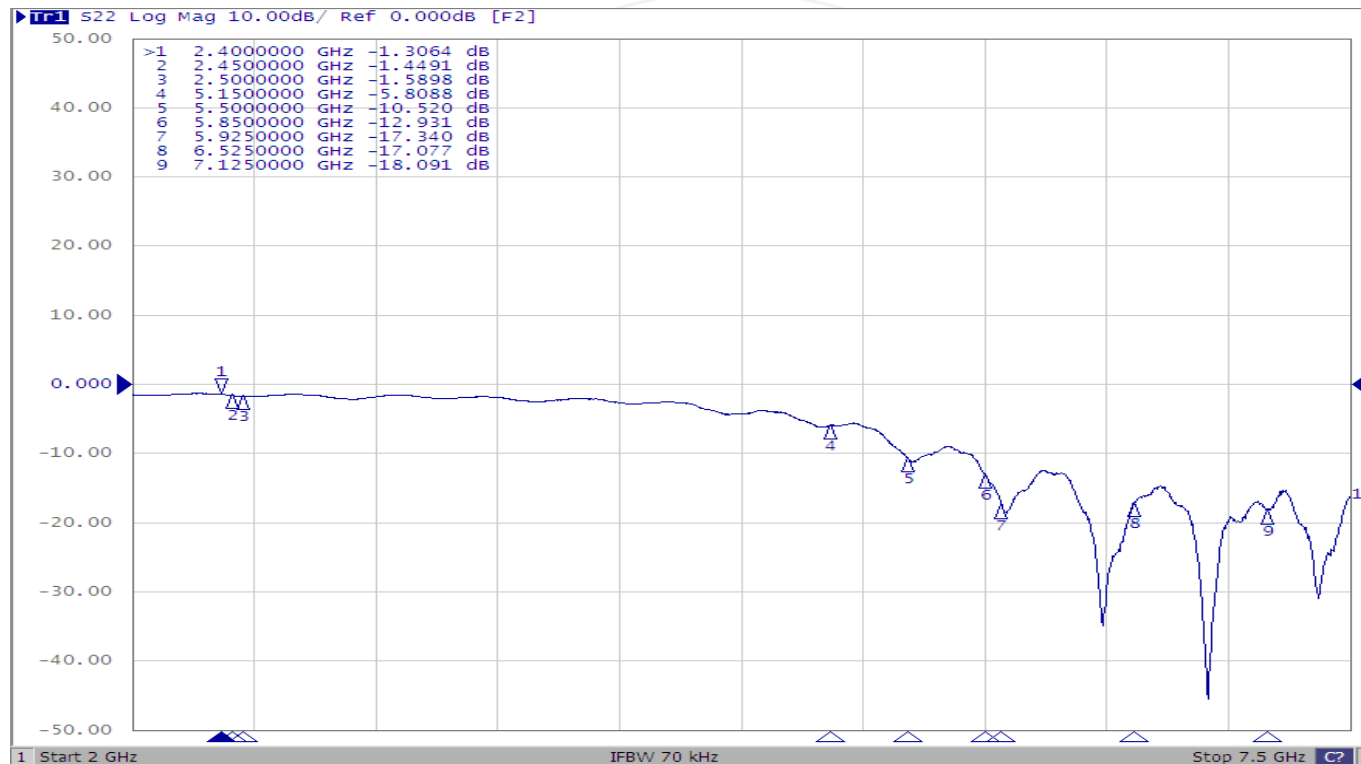
2.1 Return Loss



2. Antenna Characteristics

6G1

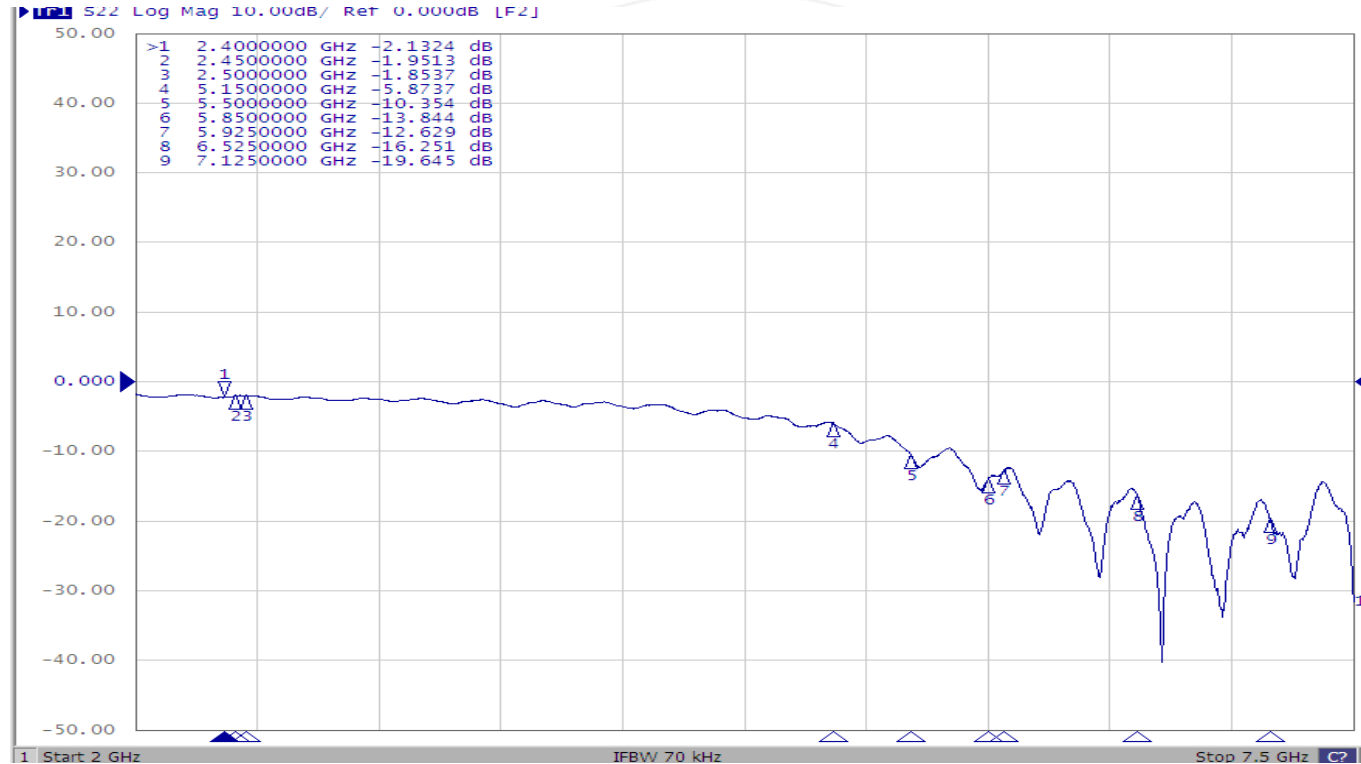
2.1 Return Loss



2. Antenna Characteristics

6G2

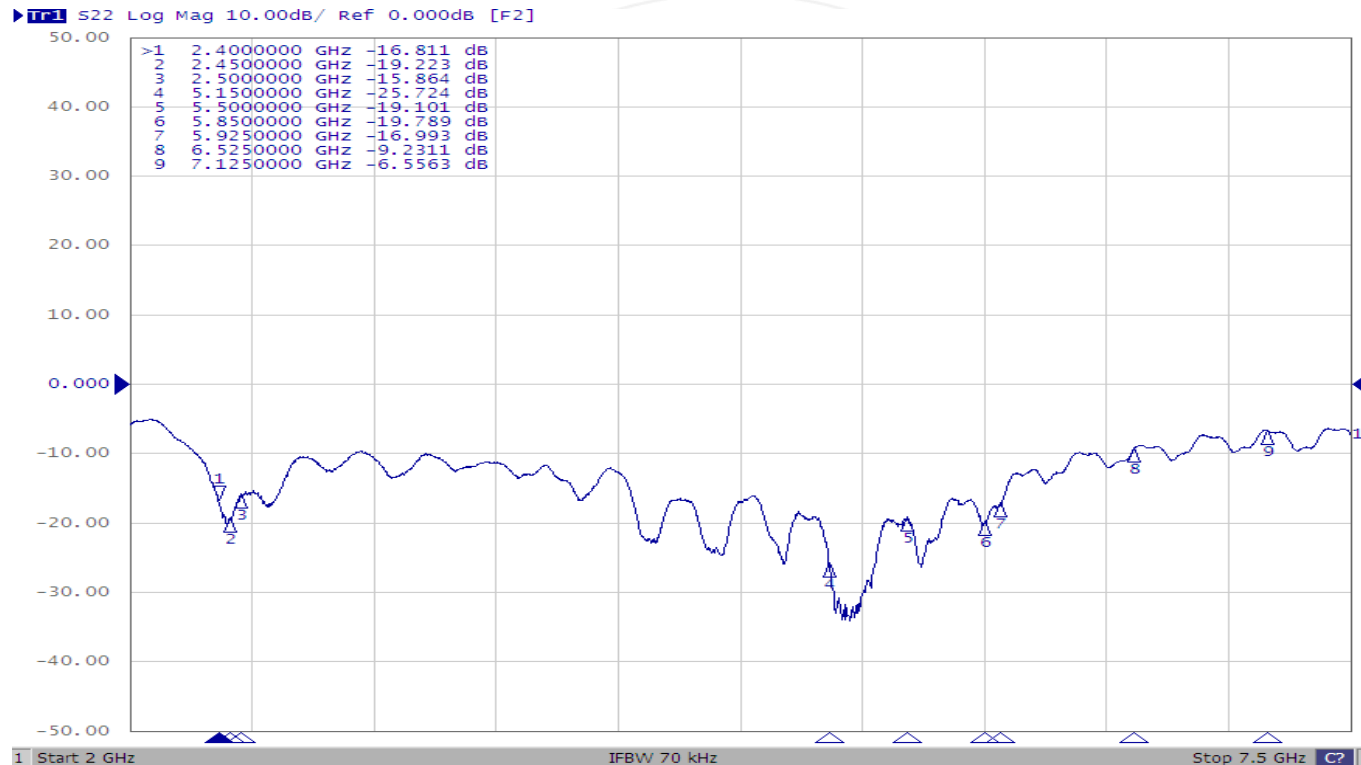
2.1 Return Loss



2. Antenna Characteristics

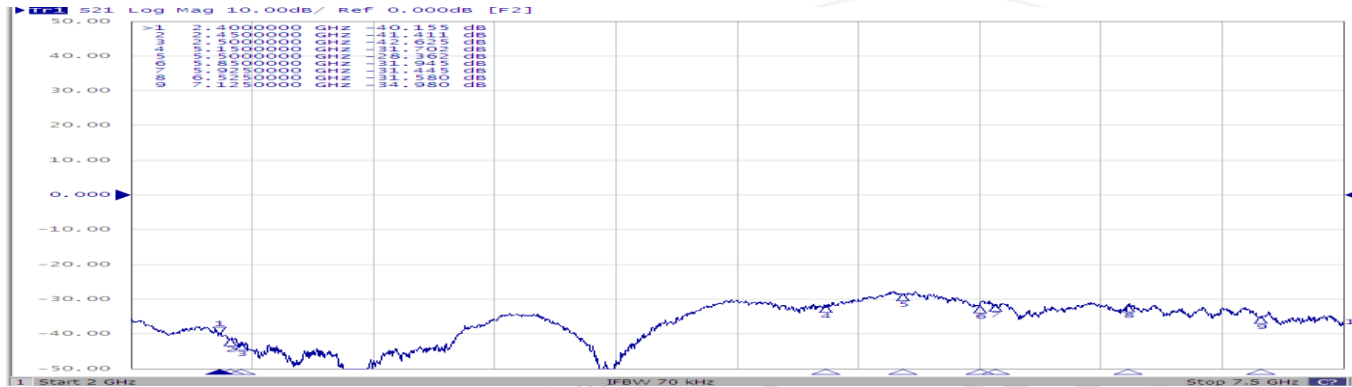
2/5G2

2.1 Return Loss



2. Antenna Characteristics

2.1 Isolation



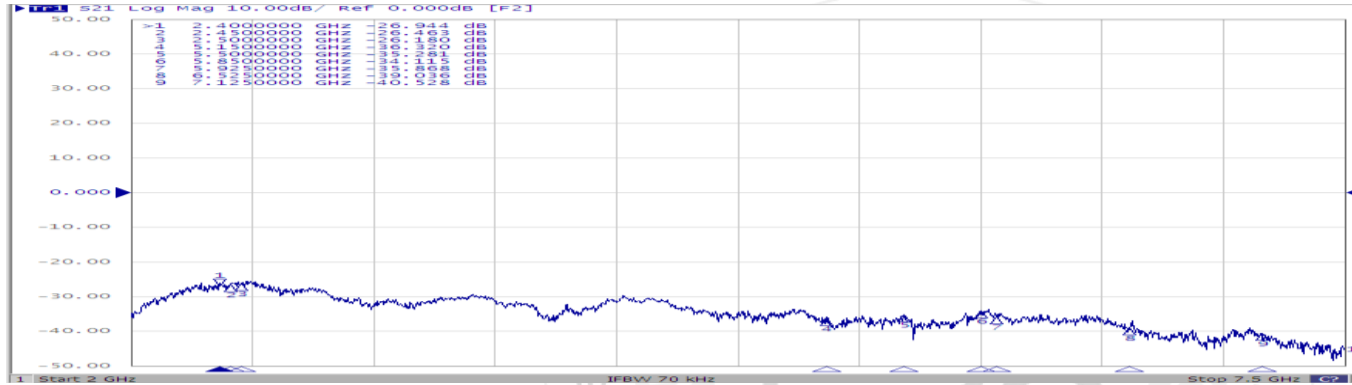
2/5G1 & 6G1



2/5G1 & 6G2

2. Antenna Characteristics

2.1 Isolation



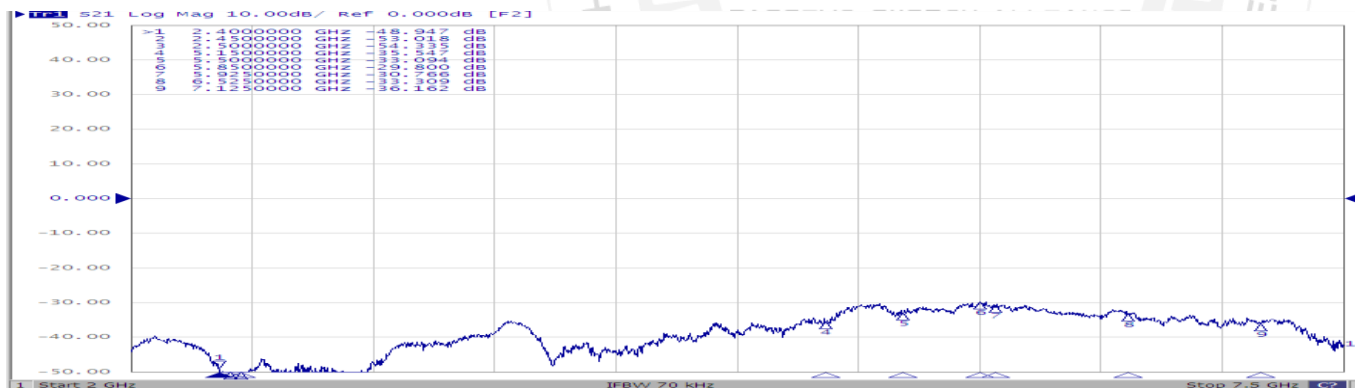
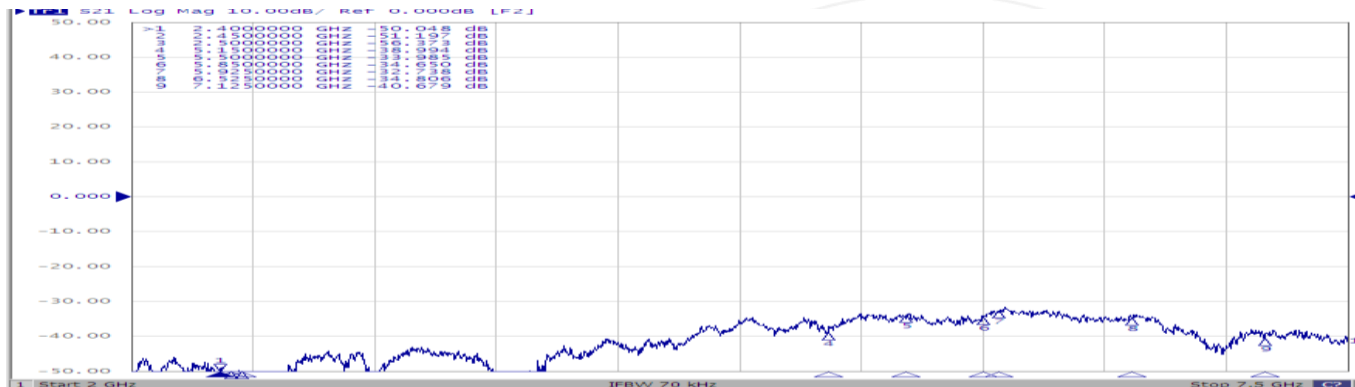
2/5G1 & 2/5G2



6G1 & 6G2

2. Antenna Characteristics

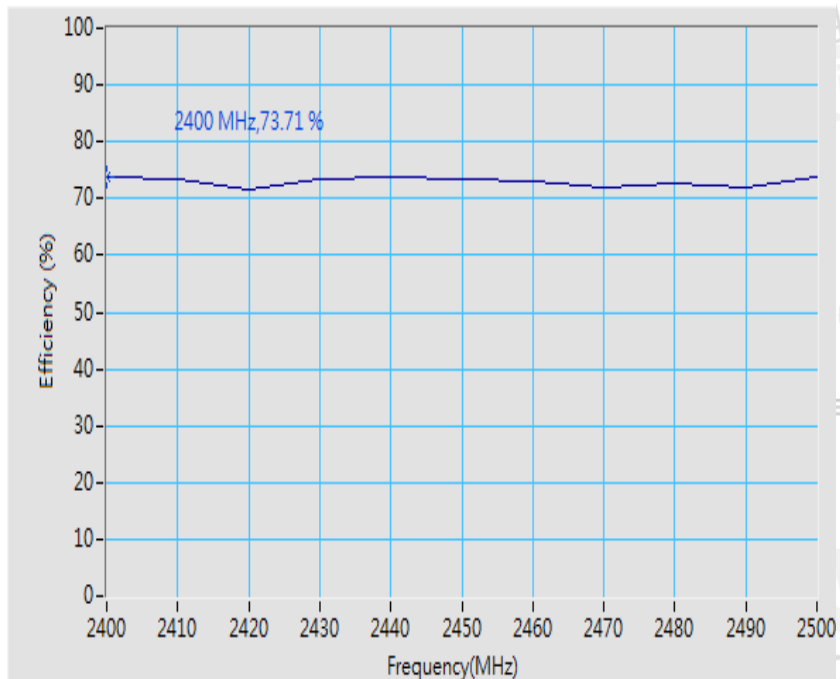
2.1 Isolation



2. Antenna Characteristics

2.2 Antenna Efficiency

2/5G1
2400 – 2500 MHz

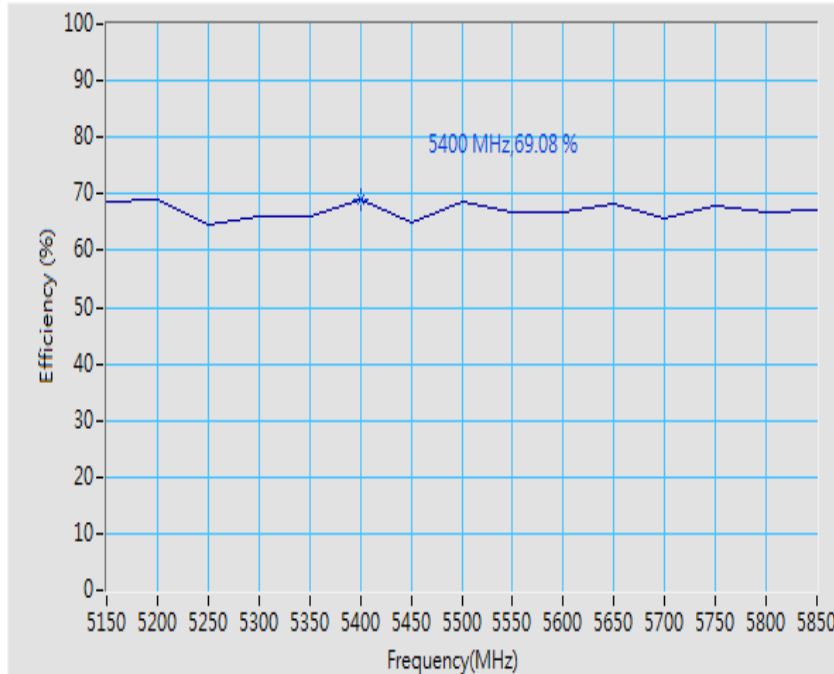


Maximum Efficiency at 2400 MHz : 73.71 %

2. Antenna Characteristics

2.2 Antenna Efficiency

2/5G1
5150 – 5850 MHz

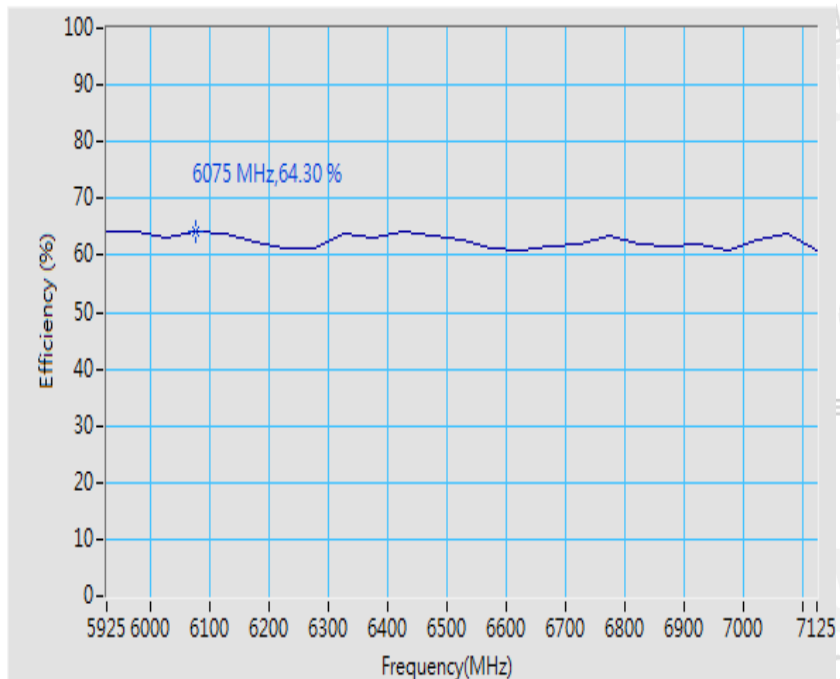


Maximum Efficiency at 5400 MHz : 69.08 %

2. Antenna Characteristics

2.2 Antenna Efficiency

6G1
5925 – 7125 MHz



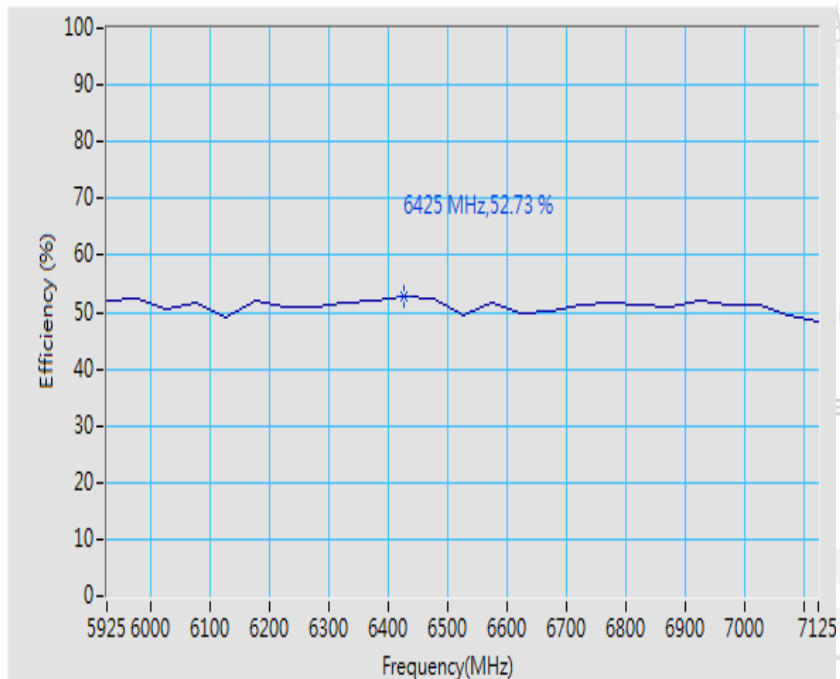
Maximum Efficiency at 6075 MHz : 64.30 %

2. Antenna Characteristics

2.2 Antenna Efficiency

6G2

5925 – 7125 MHz

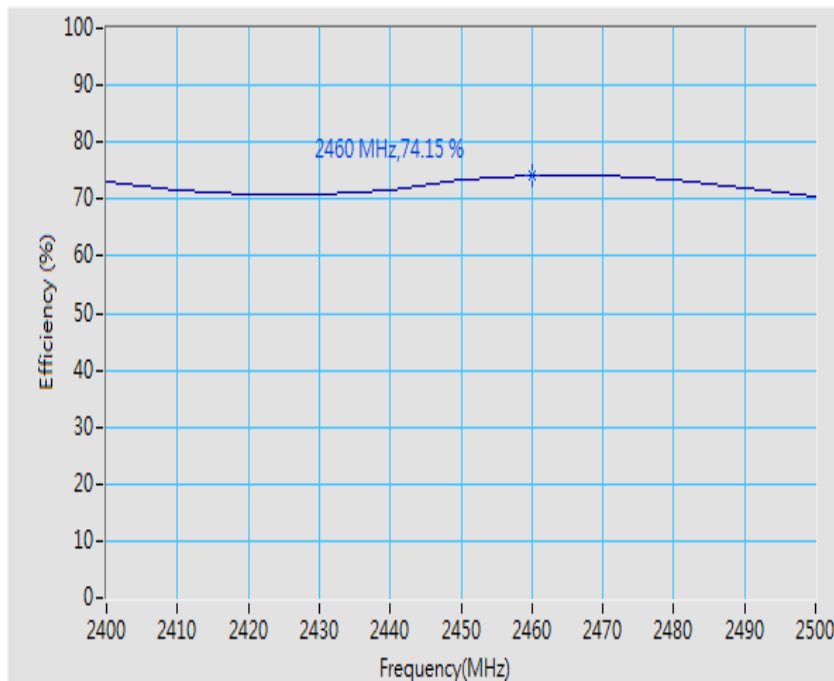


Maximum Efficiency at 6425 MHz : 52.73 %

2. Antenna Characteristics

2.2 Antenna Efficiency

2/5G2
2400 – 2500 MHz

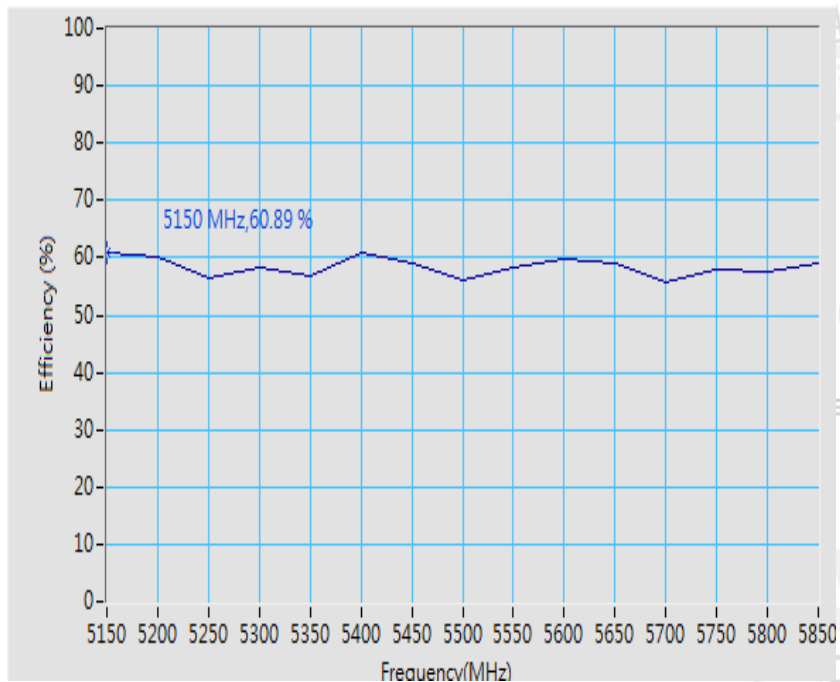


Maximum Efficiency at 2460 MHz : 74.15 %

2. Antenna Characteristics

2.2 Antenna Efficiency

2/5G2
5150 – 5850 MHz



Maximum Efficiency at 5150 MHz : 60.89 %

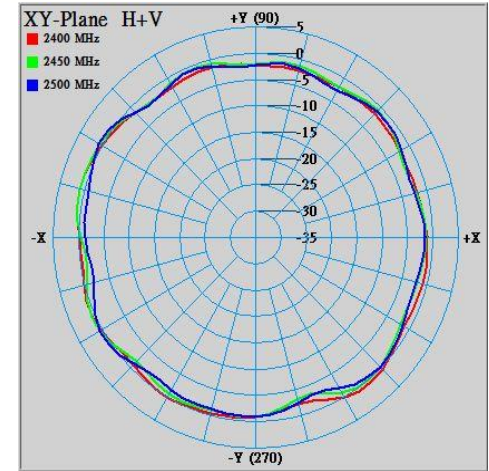
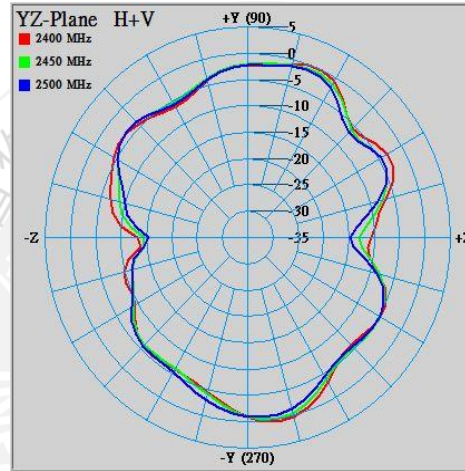
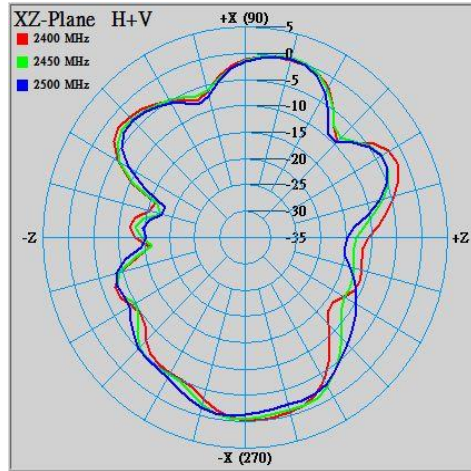
2. Antenna Characteristics

2.3 Antenna Efficiency and Peak Gain

	2/5G1		6G1		6G2		2/5G2	
Frequency (MHz)	Average Efficiency (%)	Peak gain (dBi)	Average Efficiency (%)	Peak gain (dBi)	Average Efficiency (%)	Peak gain (dBi)	Average Efficiency (%)	Peak gain (dBi)
2400	73.71	1.58	-	-	-	-	73.02	0.99
2450	73.40	1.09	-	-	-	-	73.42	1.26
2500	73.70	0.71	-	-	-	-	70.55	1.28
5150	68.68	0.85	-	-	-	-	60.89	1.85
5500	68.73	0.90	-	-	-	-	56.24	1.40
5850	67.10	2.14	-	-	-	-	59.14	1.94
5925	-	-	64.27	0.65	51.87	0.60	-	-
6525	-	-	62.57	1.23	49.36	1.26	-	-
7125	-	-	60.79	1.42	48.18	1.49	-	-

2. Antenna Characteristics

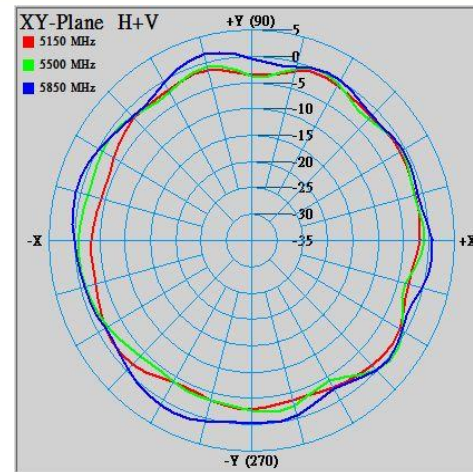
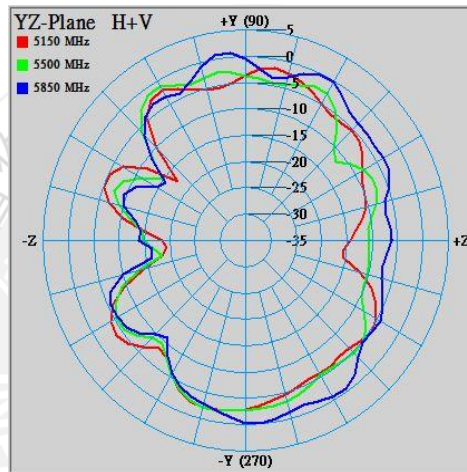
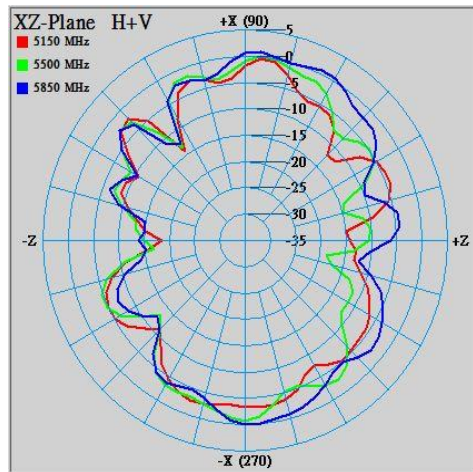
2.3 2D Radiation Patterns



2/5G1
2400 – 2500 MHz

2. Antenna Characteristics

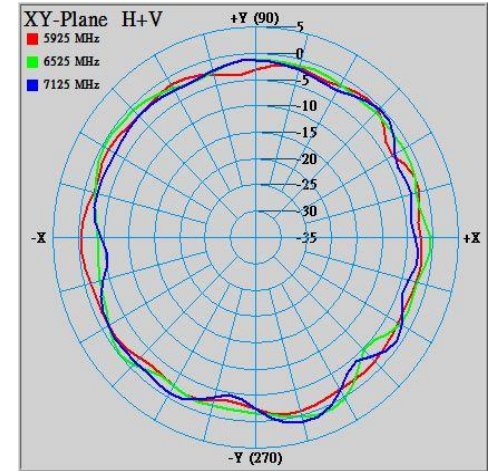
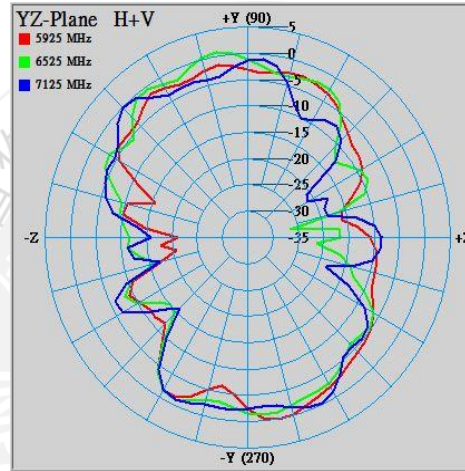
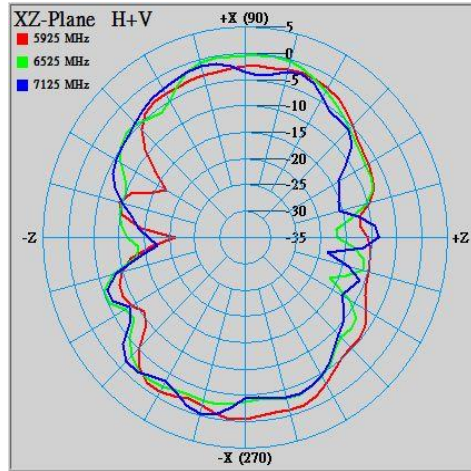
2.3 2D Radiation Patterns



2/5G1
5150 – 5850 MHz

2. Antenna Characteristics

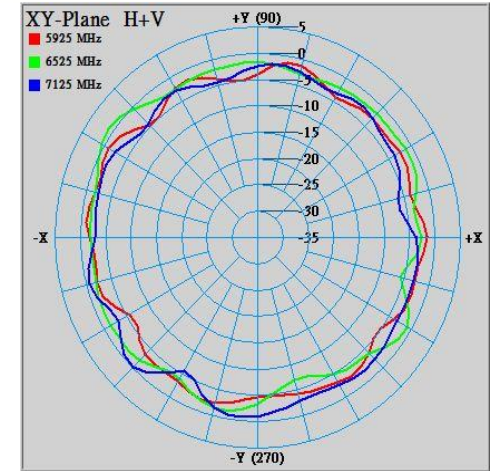
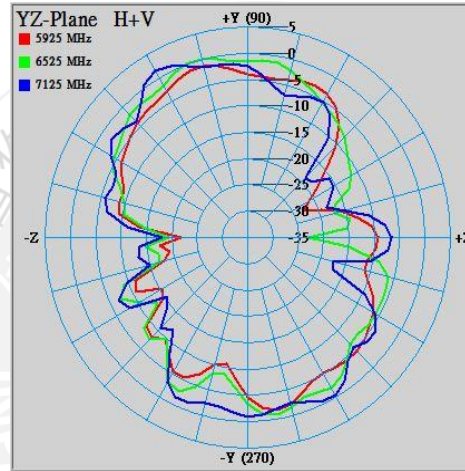
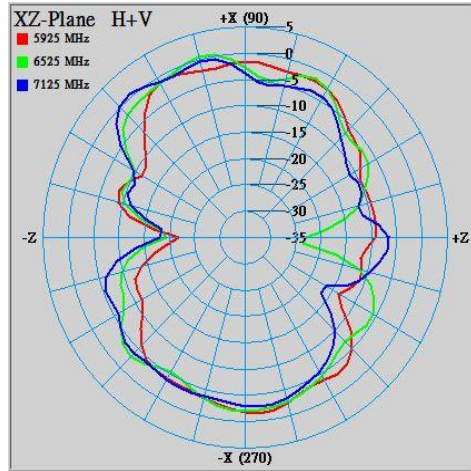
2.3 2D Radiation Patterns



6G1
5925 – 7125 MHz

2. Antenna Characteristics

2.3 2D Radiation Patterns

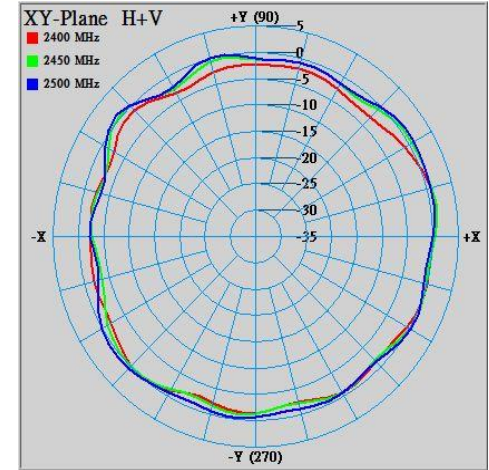
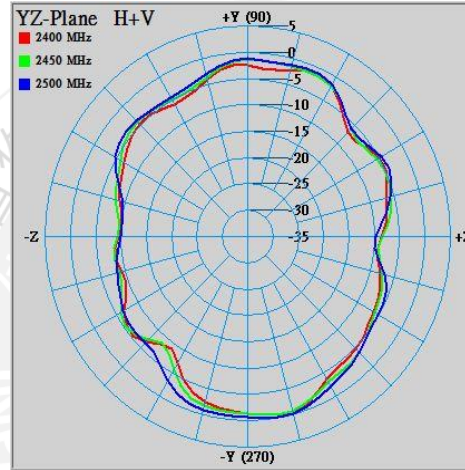
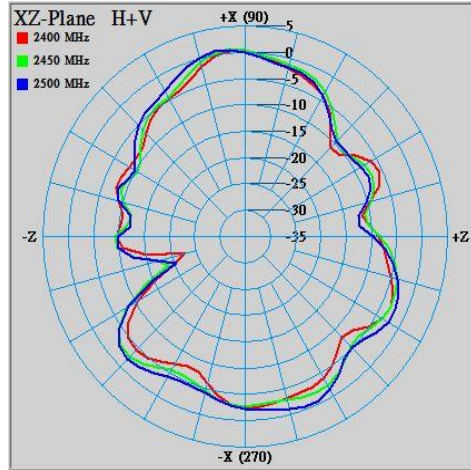


6G2
5925 – 7125 MHz

2. Antenna Characteristics

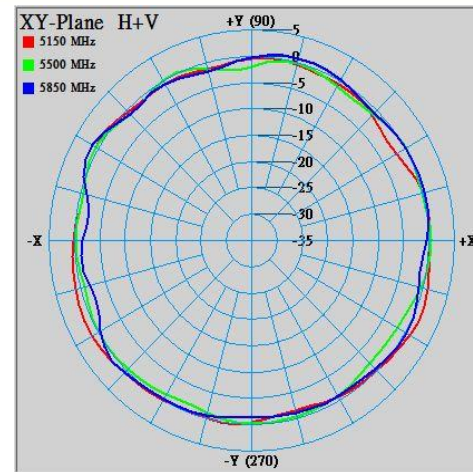
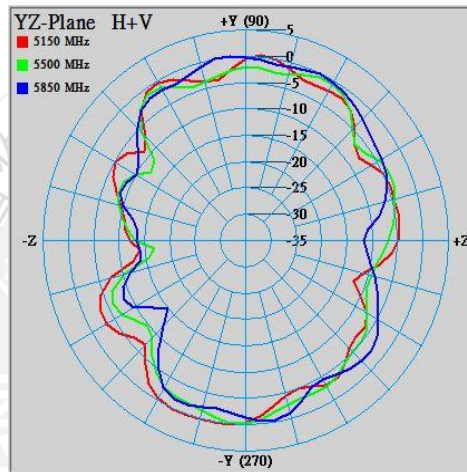
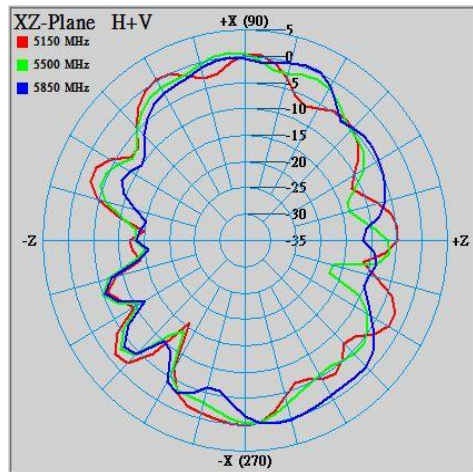
2/5G2
2400 – 2500 MHz

2.3 2D Radiation Patterns



2. Antenna Characteristics

2.3 2D Radiation Patterns



2/5G2
5150 – 5850 MHz