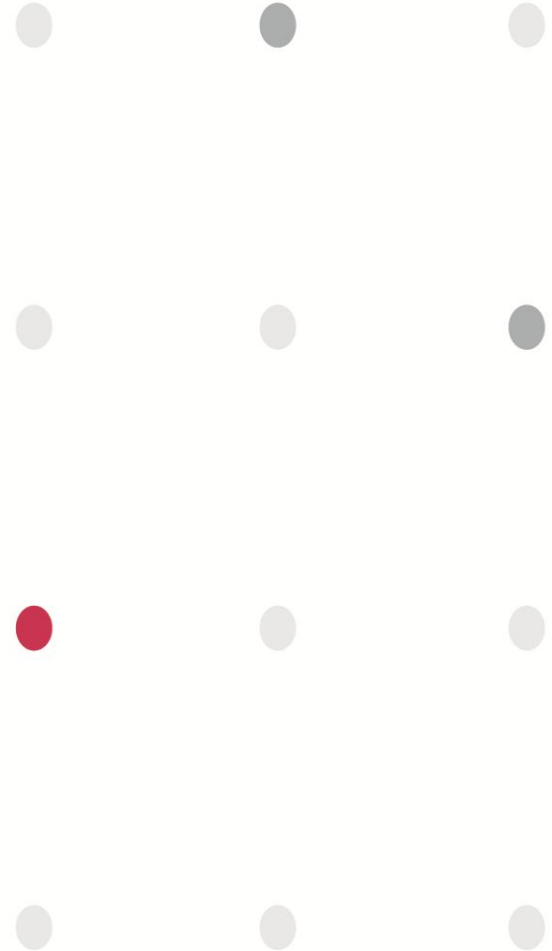


PSA



PASSIVE SYSTEM ALLIANCE
WALSIN TECHNOLOGY CORPORATION

光寶_RFPCA370817IMILB301

Presented by

Kerry Wu

Walsin Technology Corporation

2020/ 11/ 12

OUTLINE

1. Measurement Information

1.1 Experimental Setup

2. Antenna Characteristics

2.1 Return Loss

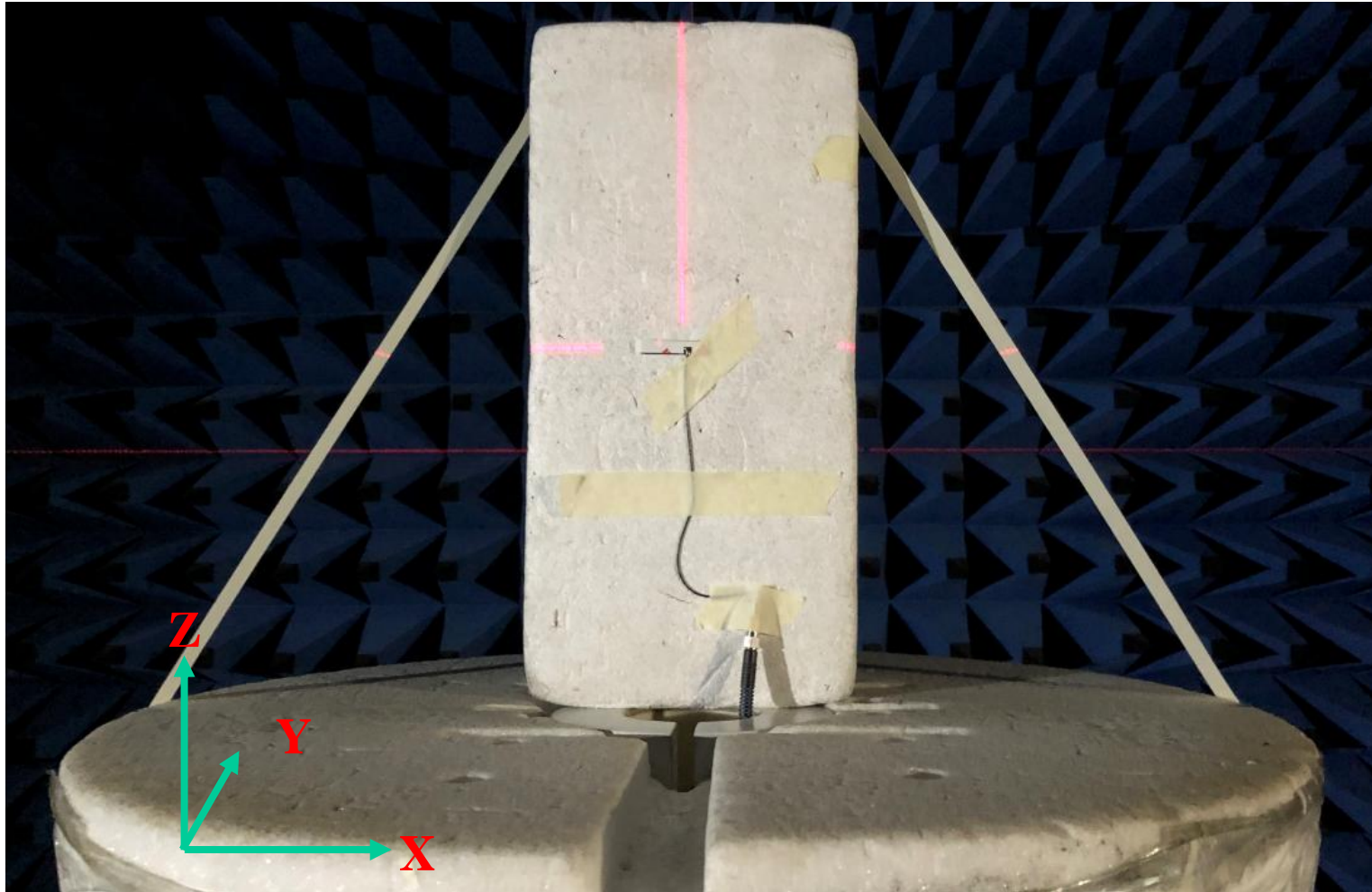
2.2 Antenna Efficiency and Peak Gain

2.3 3 views of antenna & 2D Radiation Patterns

3. Summary

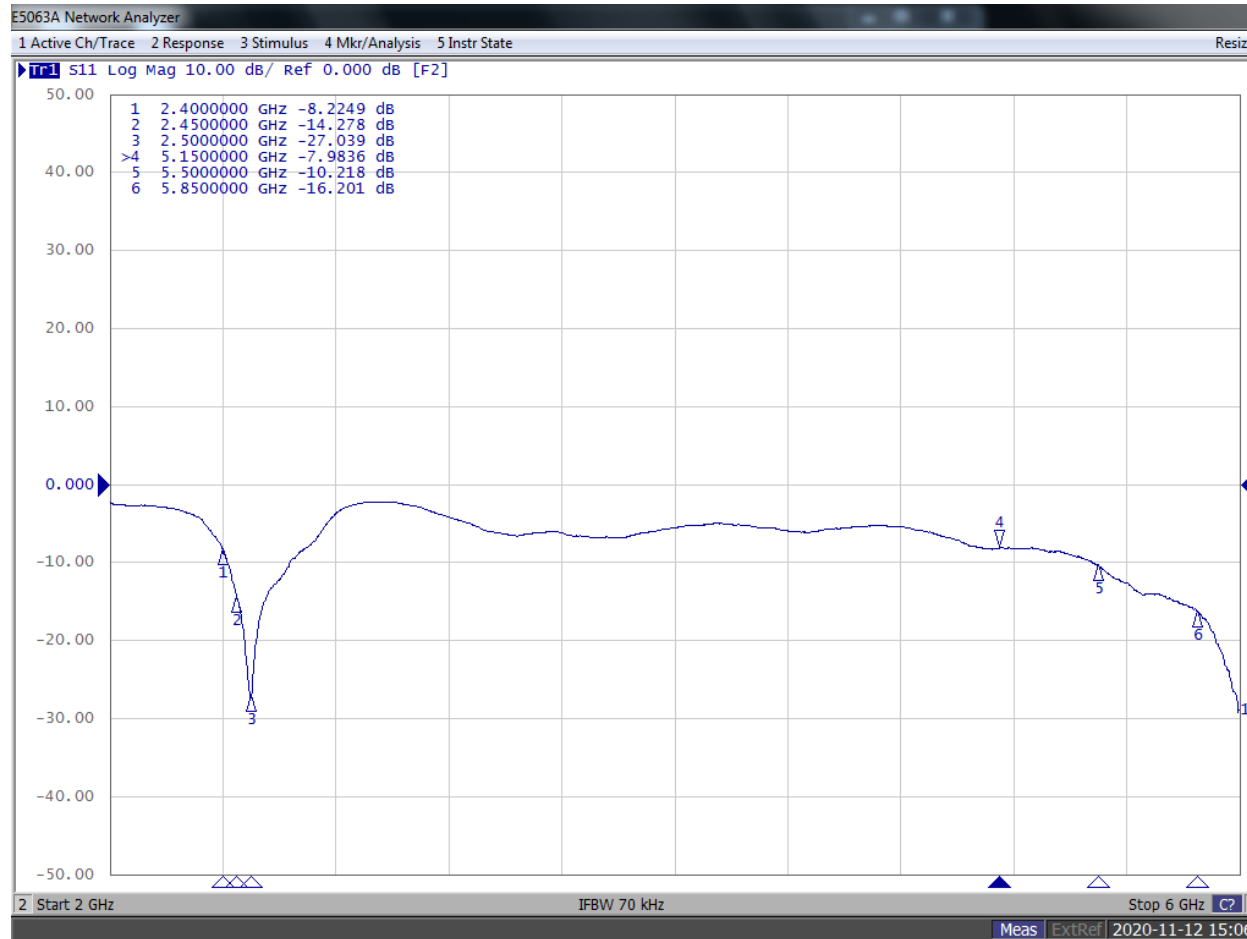
1. Measurement Information

1.1 Experimental Setup



2. Antenna Characteristics

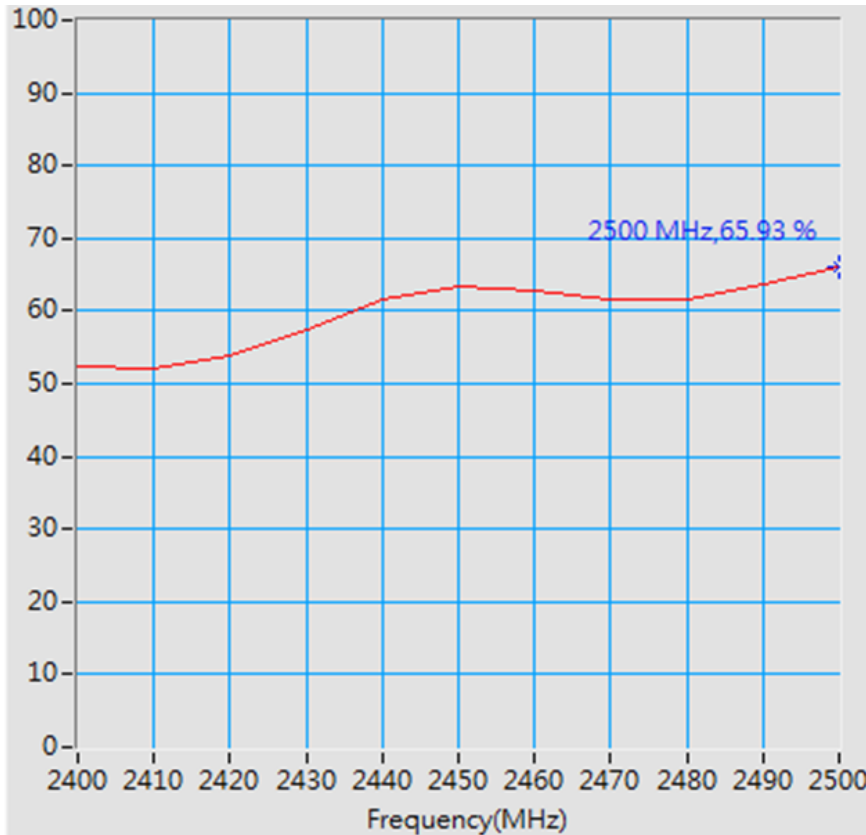
2.1 Return Loss



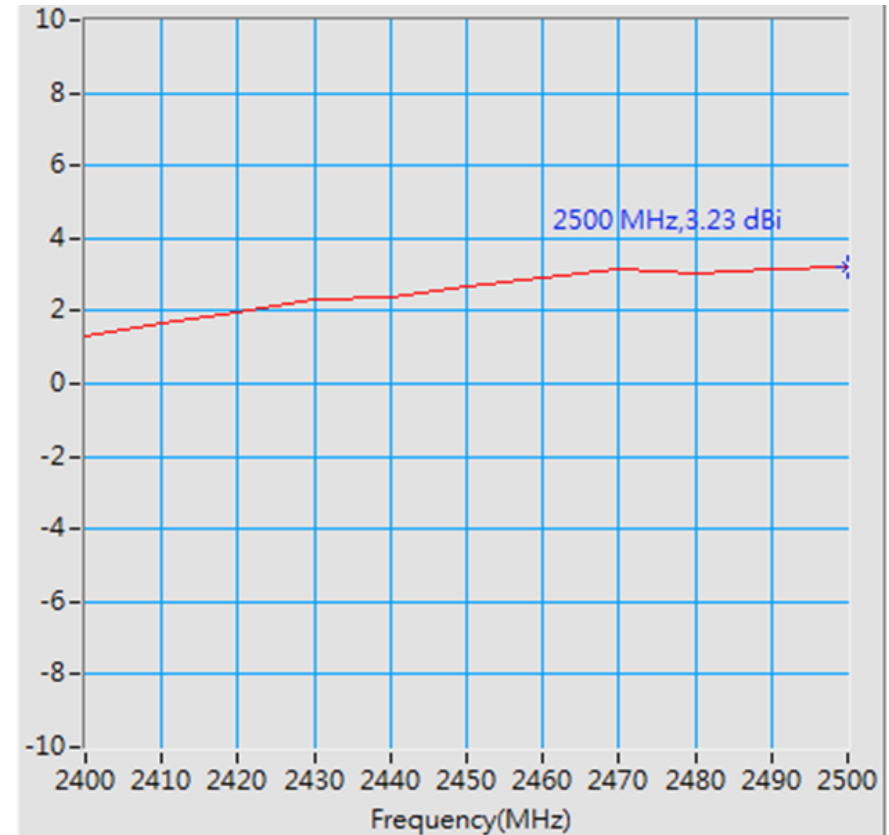
2. Antenna Characteristics

2G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2500MHz : 65.93%

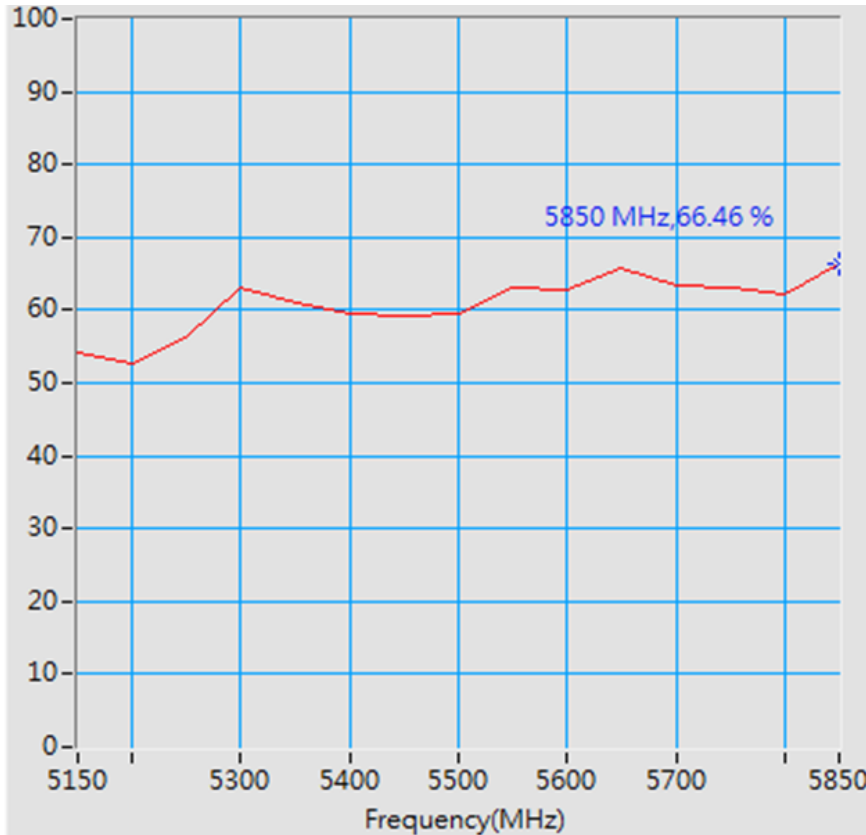


Maximum Peak Gain at 2500MHz : 3.23dBi

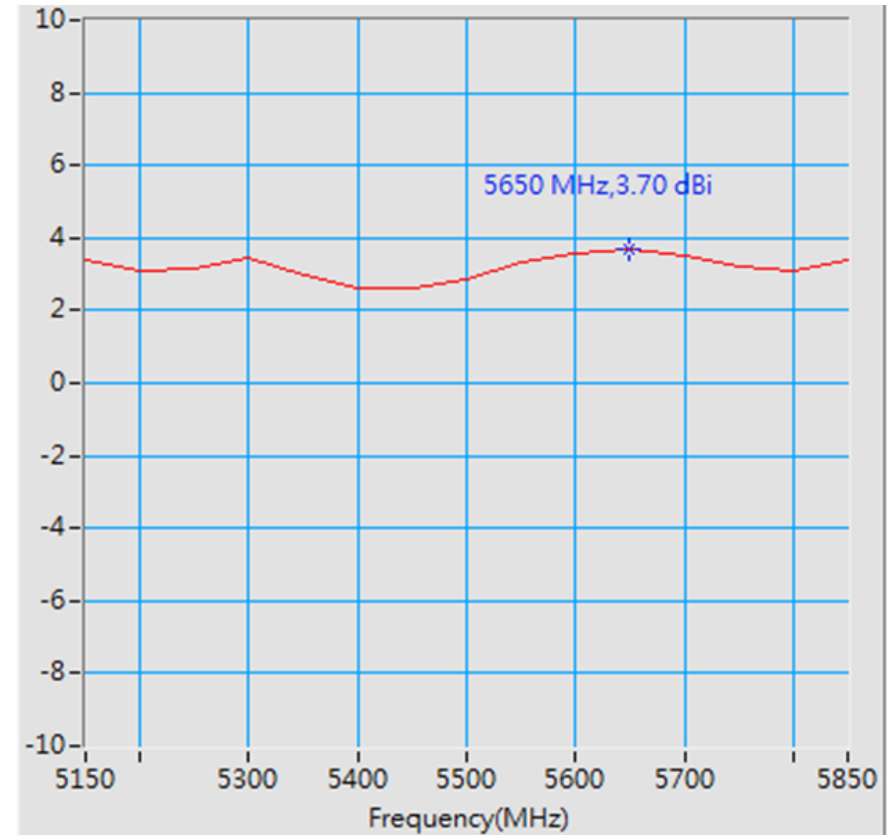
2. Antenna Characteristics

5G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5850MHz : 66.46%



Maximum Peak Gain at 5650MHz : 3.70dBi

2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

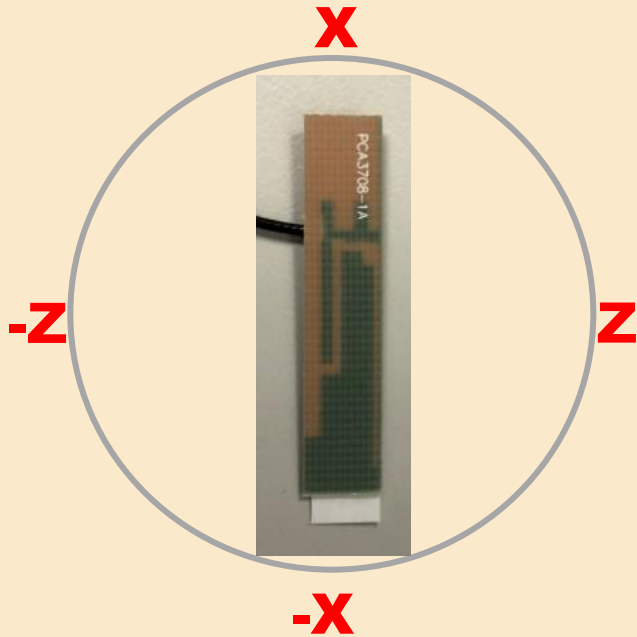
	2G	
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
2.4	52.31	1.32
2.45	63.48	2.69
2.5	65.93	3.23

	5G	
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
5.15	54.28	3.38
5.5	59.54	2.83
5.85	66.46	3.42

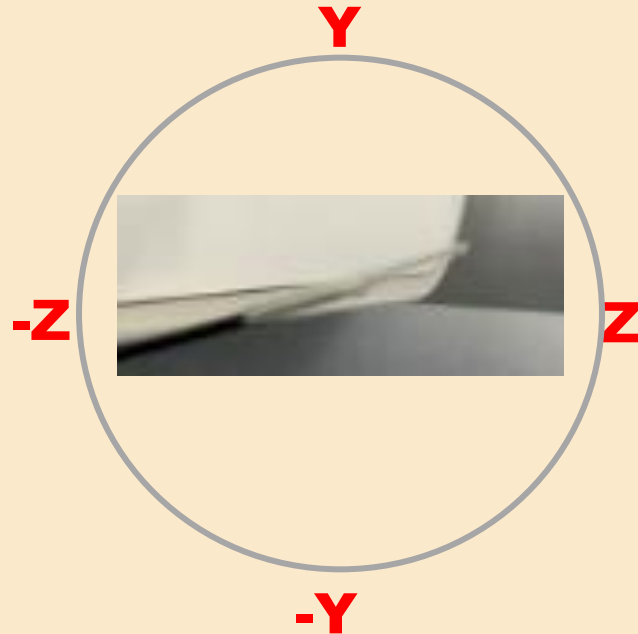
2. Antenna Characteristics

2.3 3 views of antenna

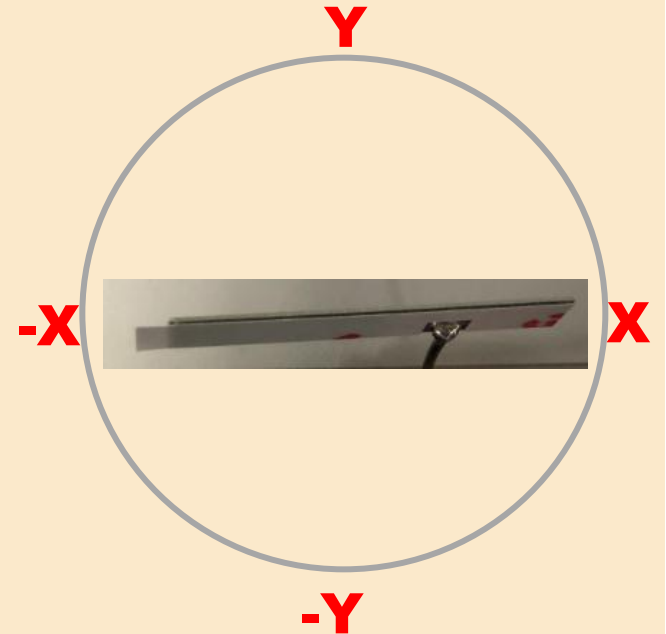
X-Z plane



Y-Z plane



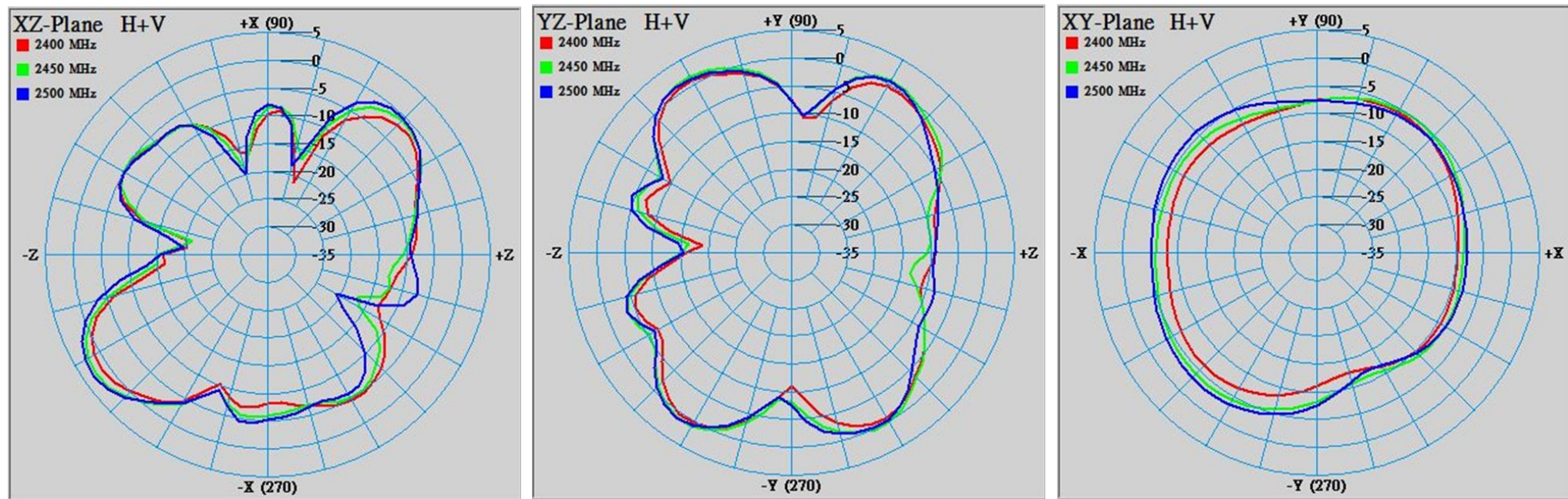
X-Y plane



2. Antenna Characteristics

2G

2.3 2D Radiation Patterns

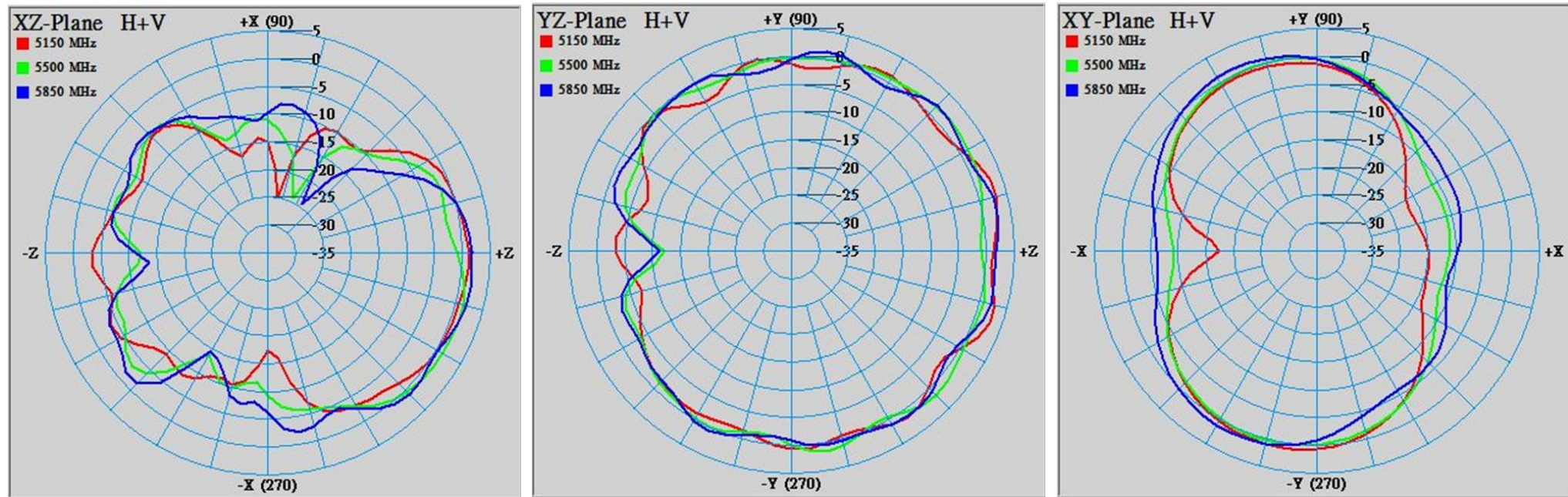


Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.30	-5.66	0.85	-3.77	-5.85	-8.03
2450	2.68	-4.90	1.66	-2.87	-4.09	-6.59
2500	3.23	-4.49	1.28	-3.08	-3.23	-6.05

2. Antenna Characteristics

5G

2.3 2D Radiation Patterns



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	1.19	-4.22	3.01	-0.52	1.01	-3.63
5500	1.38	-4.37	1.89	-0.47	0.26	-3.33
5850	2.03	-3.42	2.64	-0.21	1.24	-2.57

3. Summary

- The performance of antennas is shown in table

	2G	5G
Maximum Efficiency (%)	65.93	66.46
Maximum Gain (dBi)	3.23	3.70

Thank you

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