

LITE-ON TECHNOLOGY CORPORATION

A World-Class Company Striving for Excellence

**Soundvision AP6 Pro
Antenna passive measurement
Report for certificate**

2023.02.17

Agenda

- **AP6 Pro antenna info.**

- Antenna model

- Antenna manufacture name

 - INPAQ TECHNOLOGY CO., LTD

- Antenna manufacture address

 - 326103 No. 566-1 Gaoshi Road, Yangmei District, Taoyuan City

- Antenna Specification

- S Parameter

- radiation pattern

- Efficiency & Peak gain table

Antenna model

	Antenna model
ANT1_5G 1	3010001429GD
ANT2_Dual band 1	3010001441GD
ANT3_Dual band 2	3010001443GD
ANT4_5G 2	3010001442GD
ANT5_BT	3010001433GD

Specification

Requirements of Antenna Design

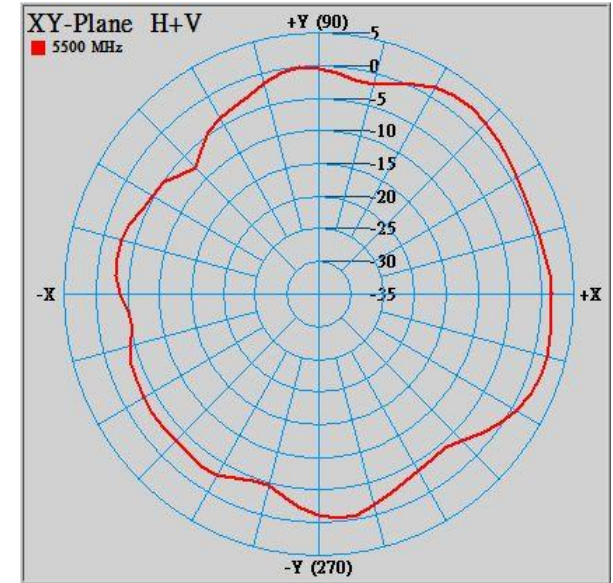
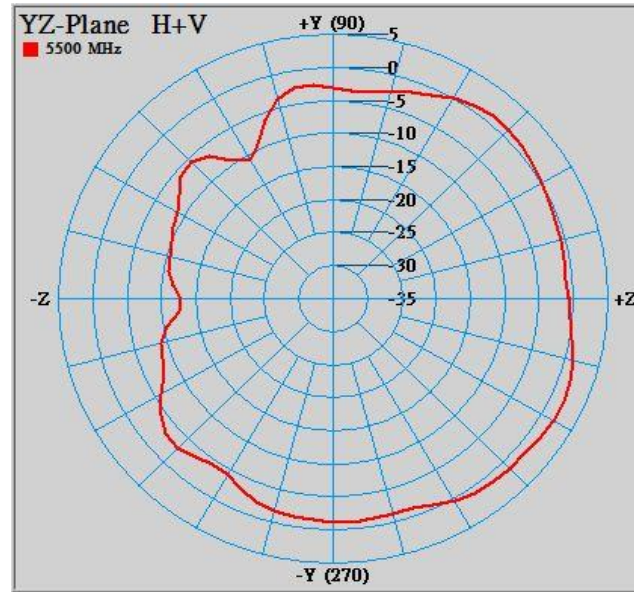
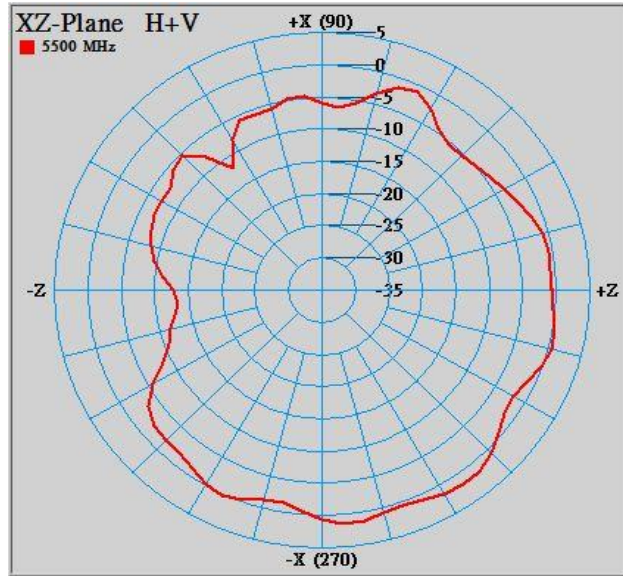
RF Function	Frequency Band
ANT1	5150~5850 MHz
ANT2	2400~2500 MHz/5150~5850 MHz
ANT3	2400~2500 MHz/5150~5850 MHz
ANT4	5150~5850 MHz
ANT5	2400~2500 MHz

Requirements of Measurement

Test Item	Specification
Return loss	<-10 dB
Isolation	< -20 dB
Efficiency	> 60 %

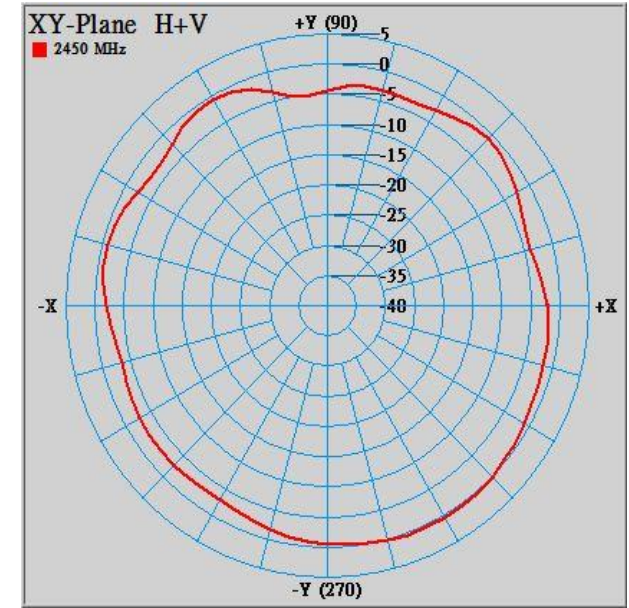
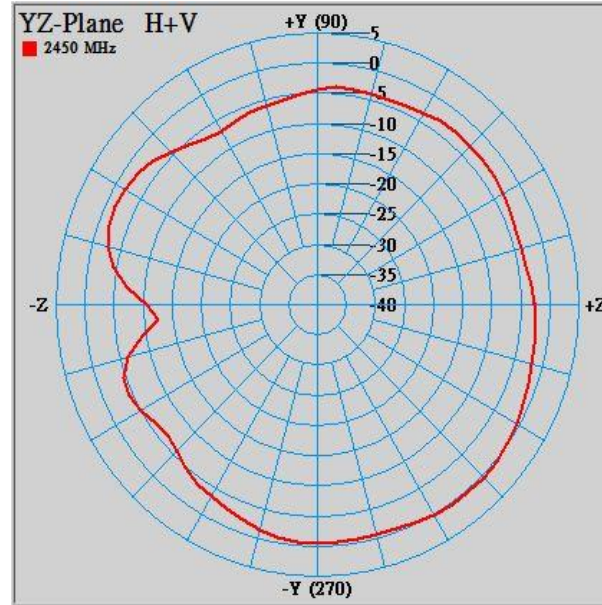
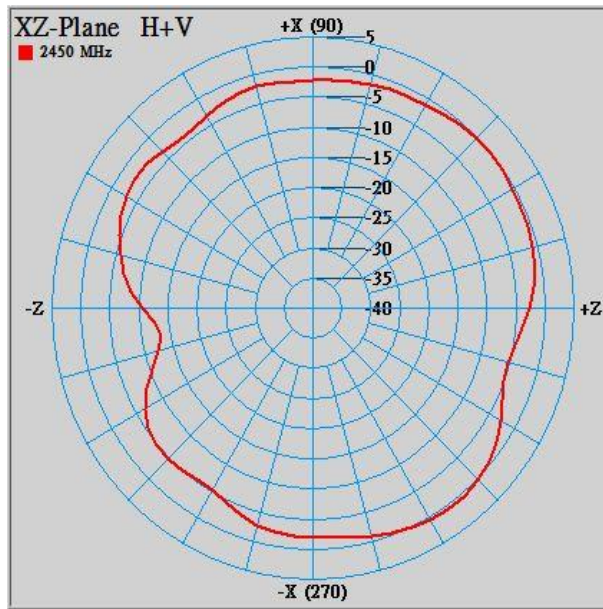
2D Radiation Pattern Results

Ant1_ single band 5G



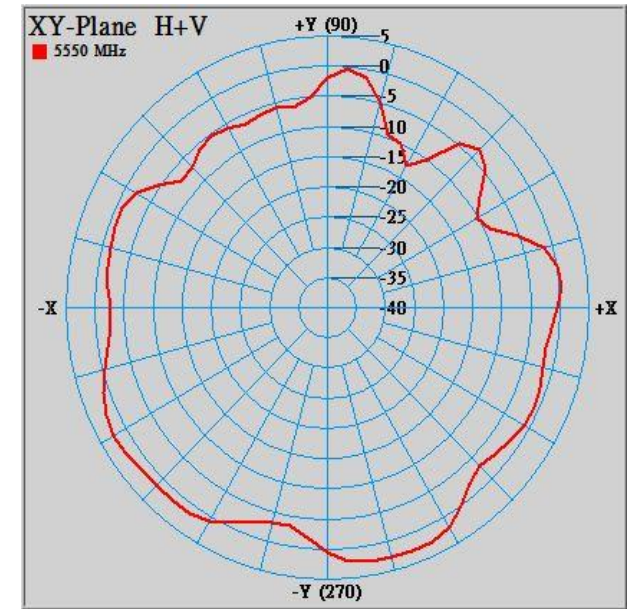
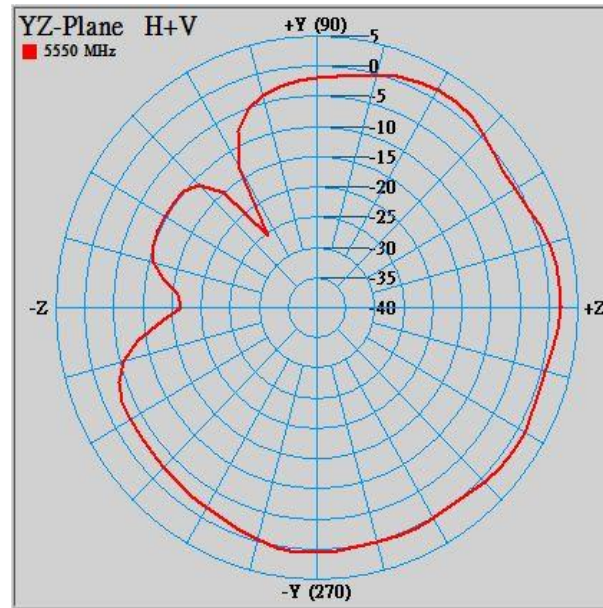
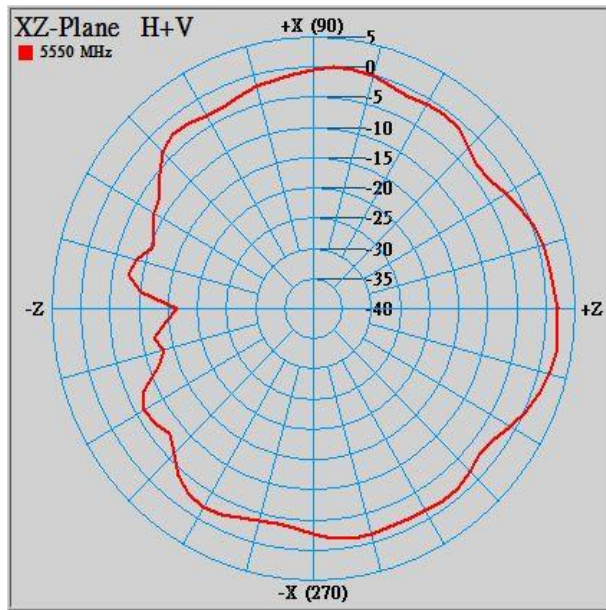
2D Radiation Pattern Results

Ant2_dual band_2G



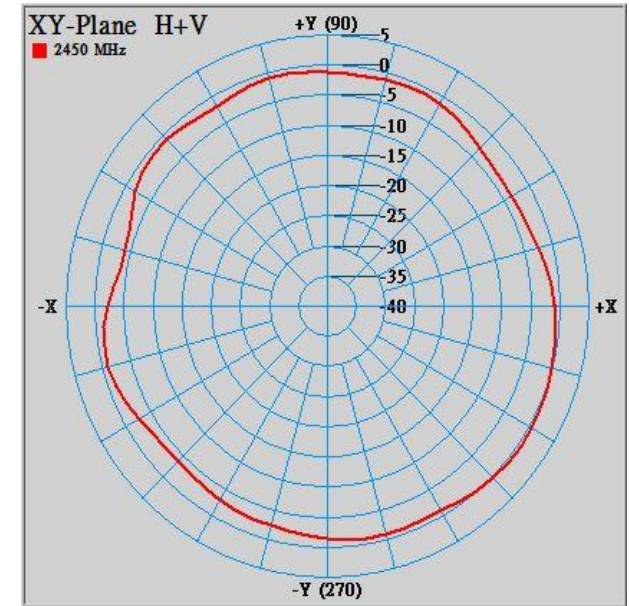
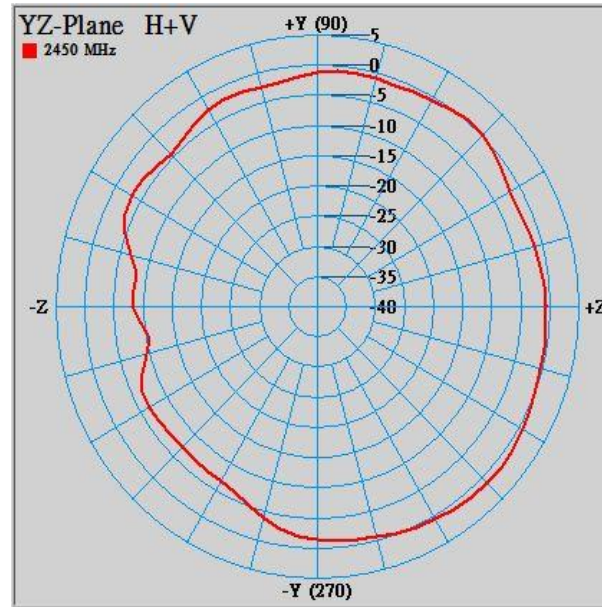
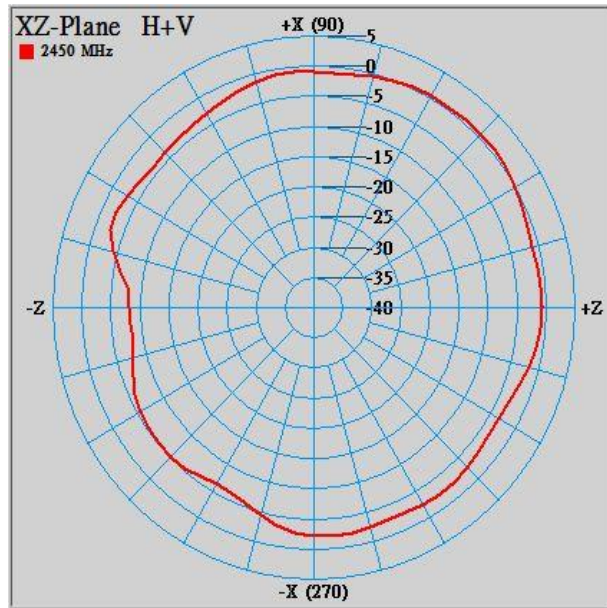
2D Radiation Pattern Results

Ant2_ dual band_5G



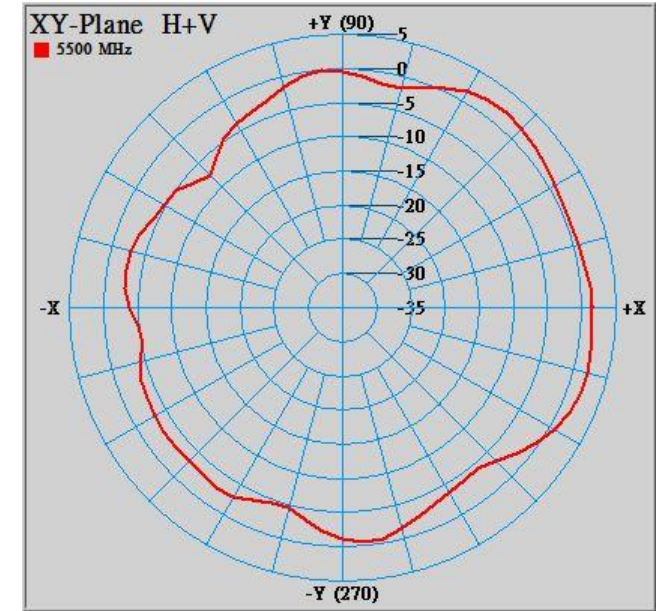
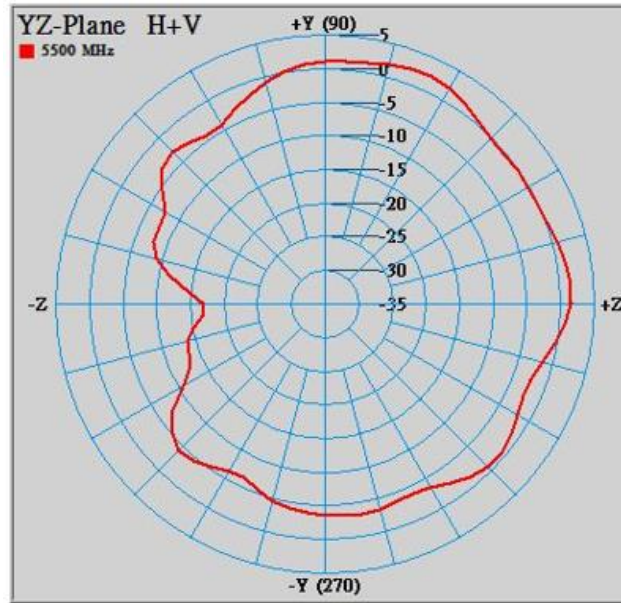
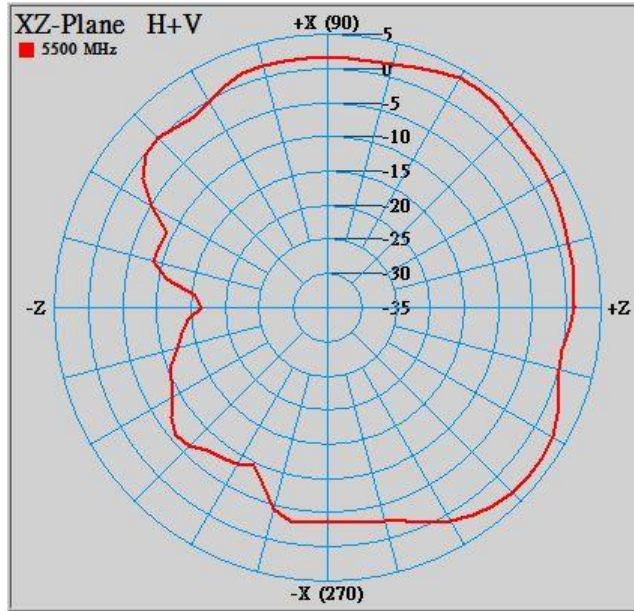
2D Radiation Pattern Results

Ant3_ dual band _2G



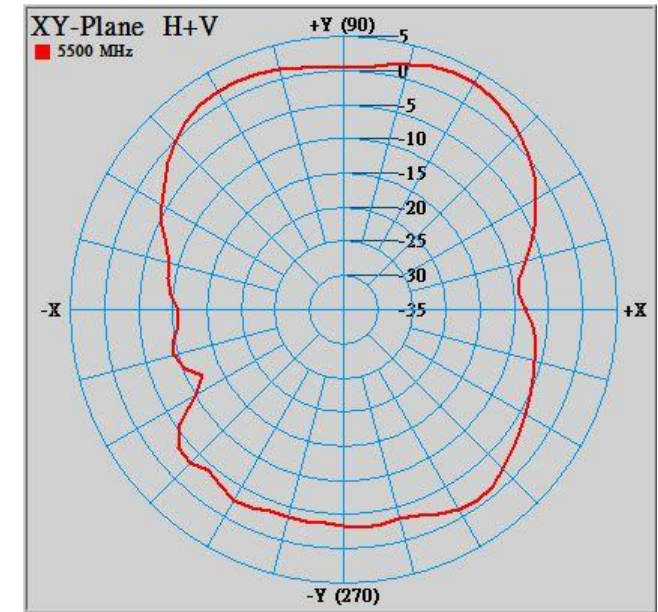
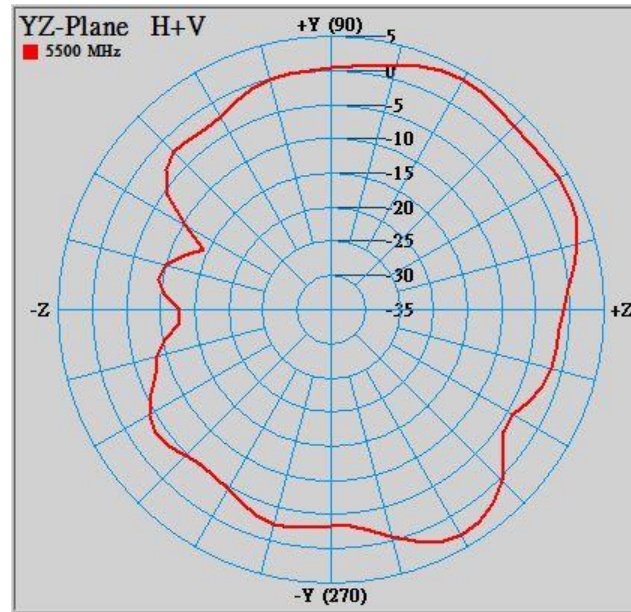
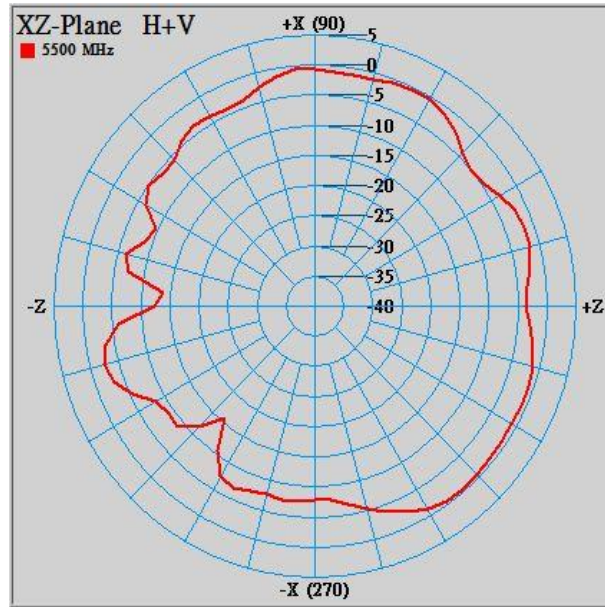
2D Radiation Pattern Results

Ant3_ dual band _5G



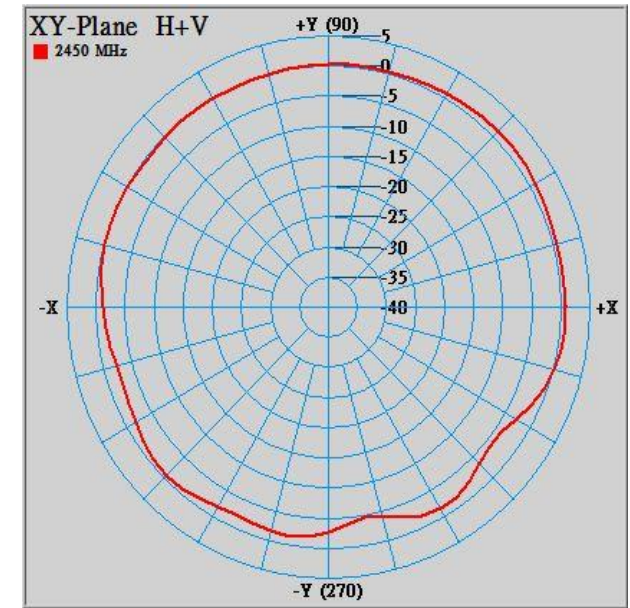
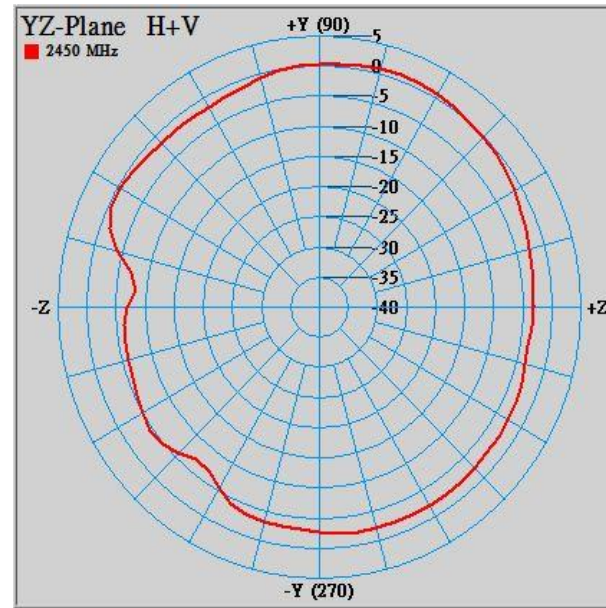
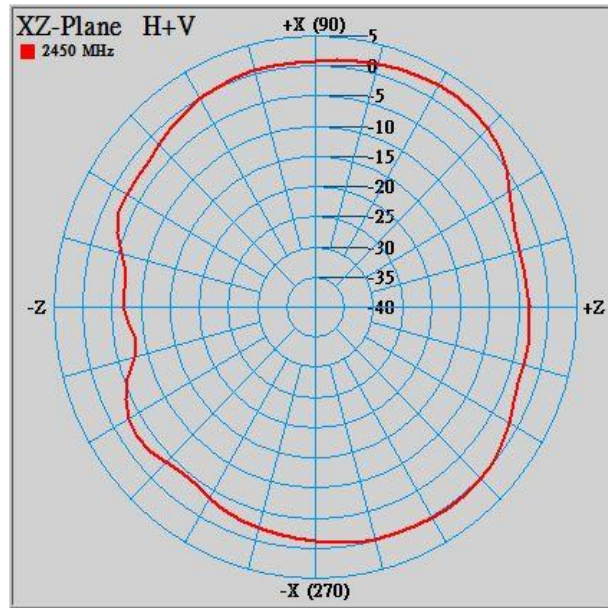
2D Radiation Pattern Results

Ant4_ single band _5G



2D Radiation Pattern Results

Ant5_ single band_BT



Efficiency & Peak gain table

Antenna #	Ant1				Ant2				Ant3									
Frequency (MHz)	5150	5350	5500	5850	2400	2450	2480	5150	5350	5500	5850	2400	2450	2480	5150	5350	5500	5850
Peak Gain (dBi)	3.4	3.3	3.3	3.5	2.7	2.2	2.2	3.8	4	4.3	4.2	2.9	3.2	2.2	3.5	3.8	4.1	3.8
Eff.(%)	67	65	69	62	60	66	63	68	69	68	68	60	65	61	62	65	68	64

Antenna #	Ant4				Ant5		
Frequency (MHz)	5150	5350	5500	5850	2400	2450	2480
Peak Gain (dBi)	4.2	4.3	4.1	4.3	2.4	2.7	2.2
Eff.(%)	65	64	67	63	70	72	65



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Thank You