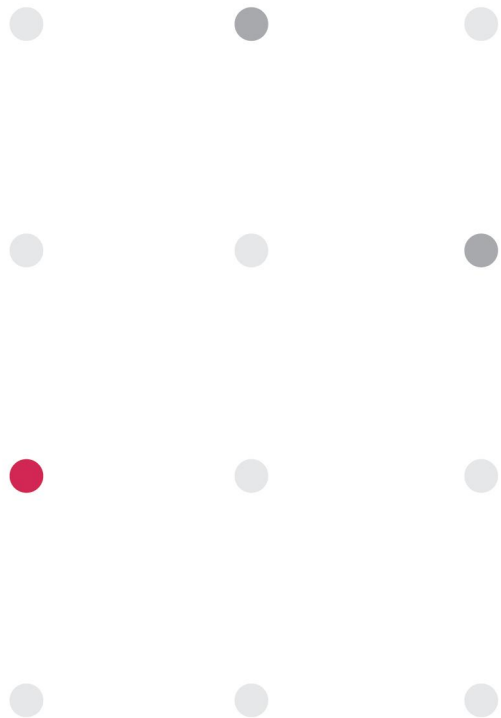


PSA

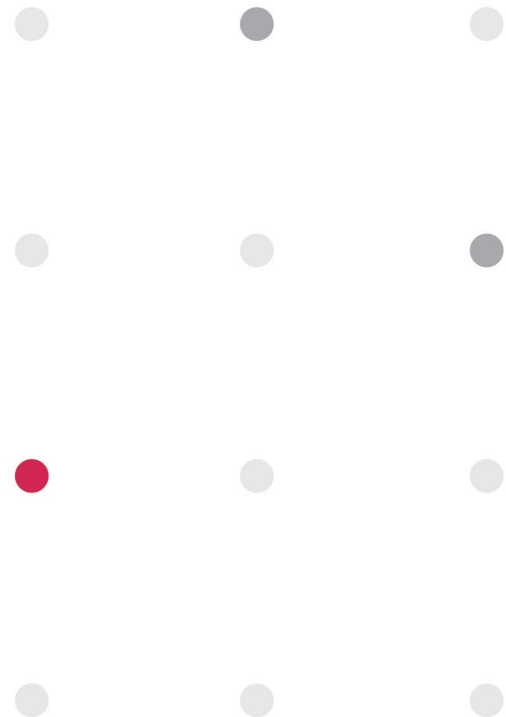
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



光峰_PJ08



Test method

Name	Parameter	Method	Standard no.
Mobile communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

Test standard

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149- 2021

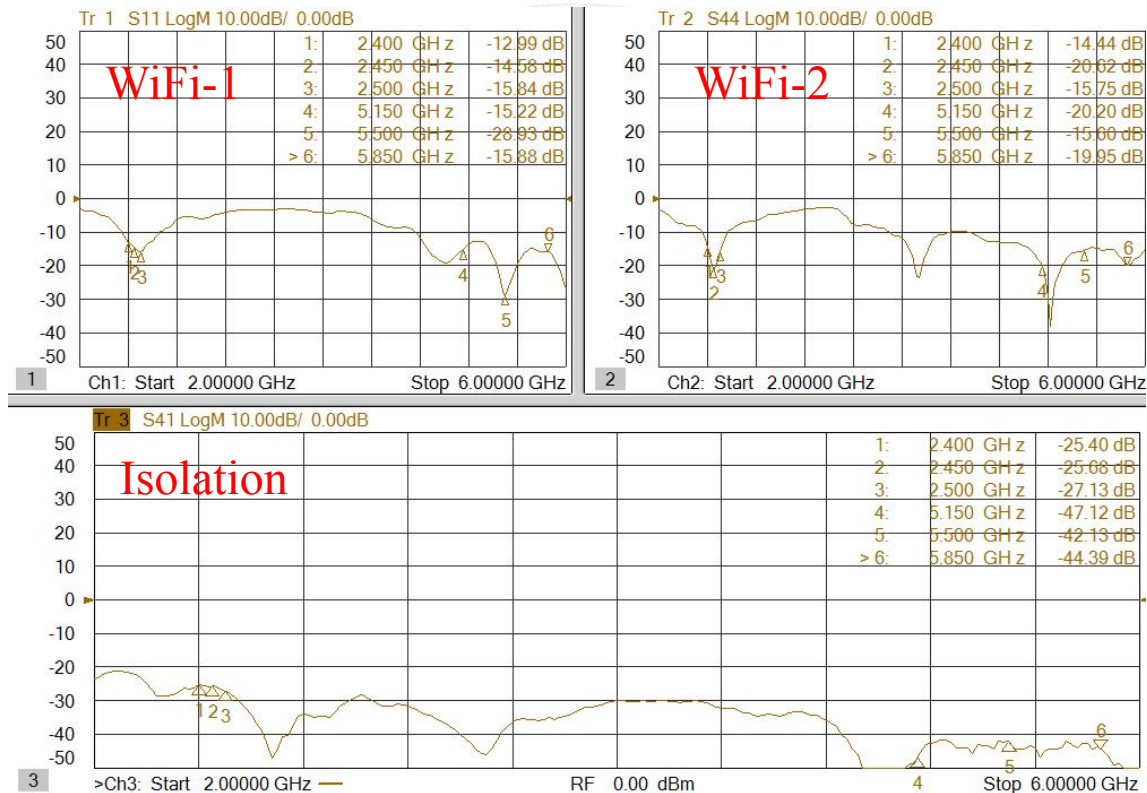
Equipment of calibration

Equipment	Manufacturer	Model No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071C	2025.01.14	2026.01.13

Test personnel :FangTan Jin

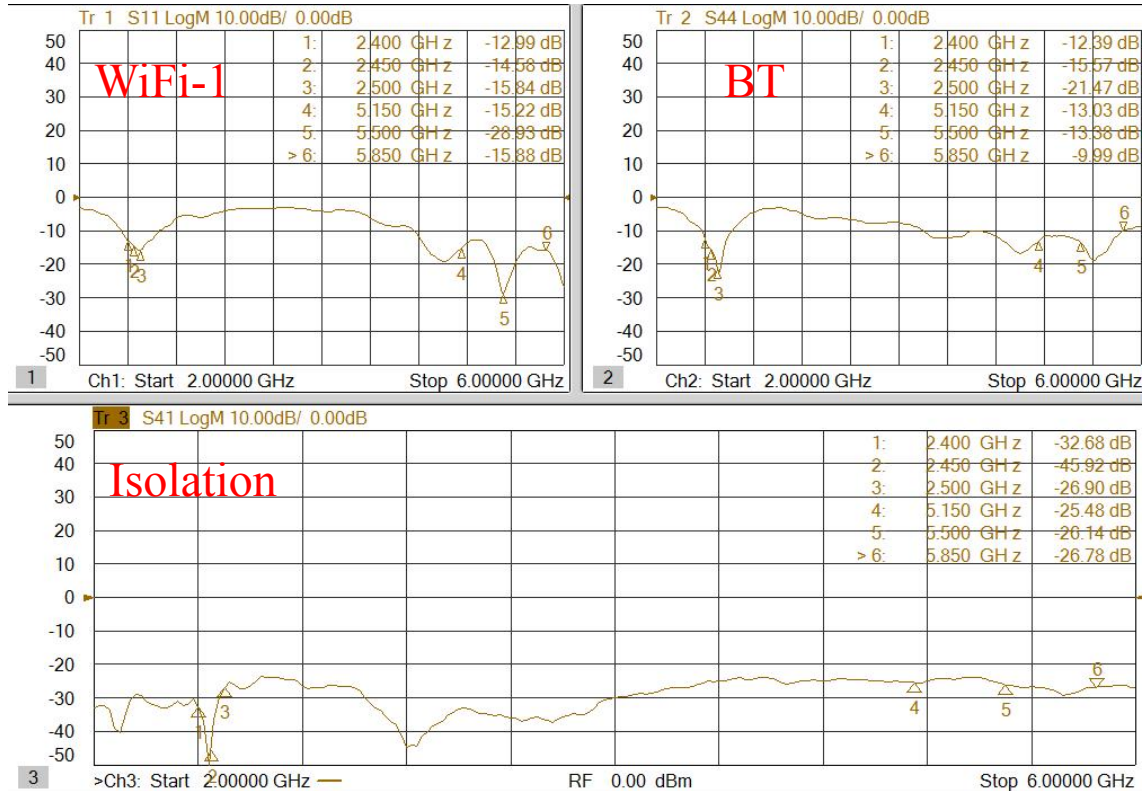
2. Antenna Characteristics

2.1 S-Parameter



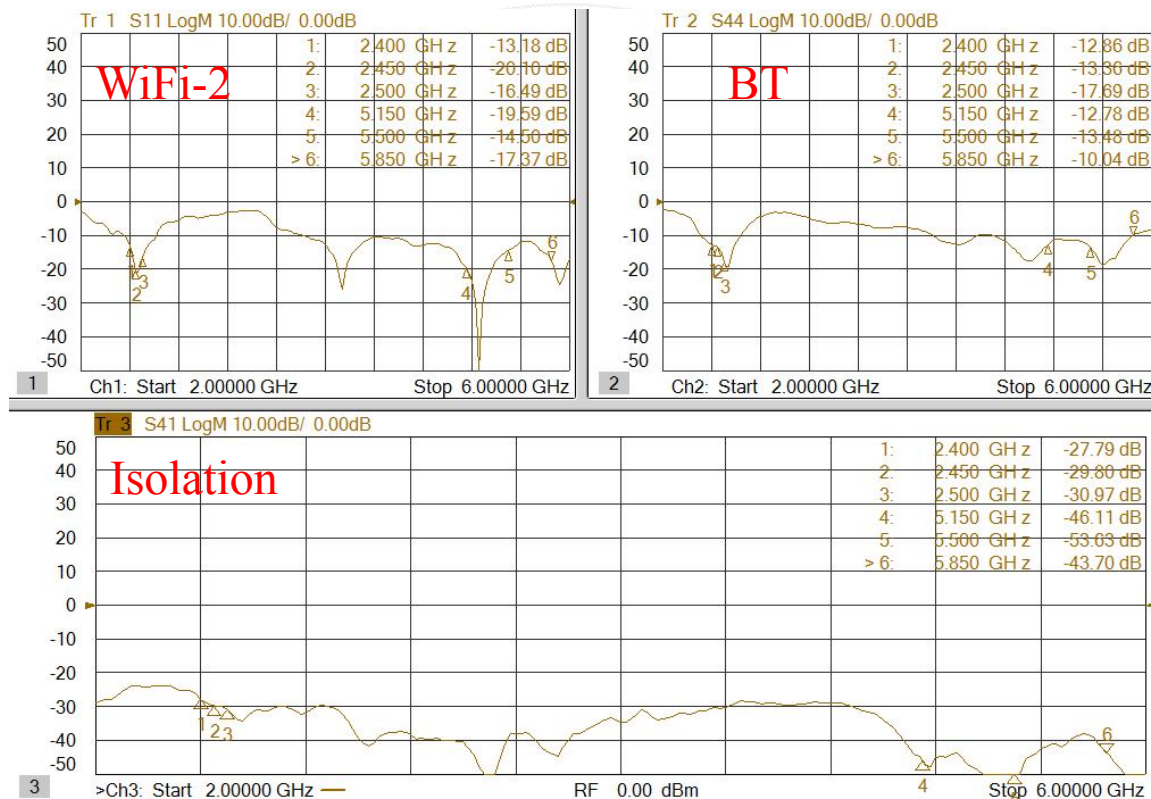
2. Antenna Characteristics

2.1 S-Parameter



2. Antenna Characteristics

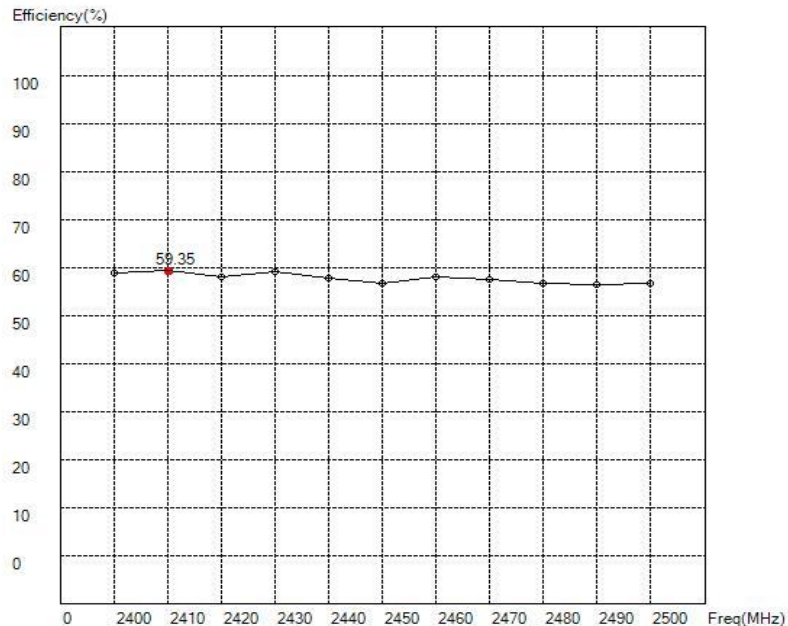
2.1 S-Parameter



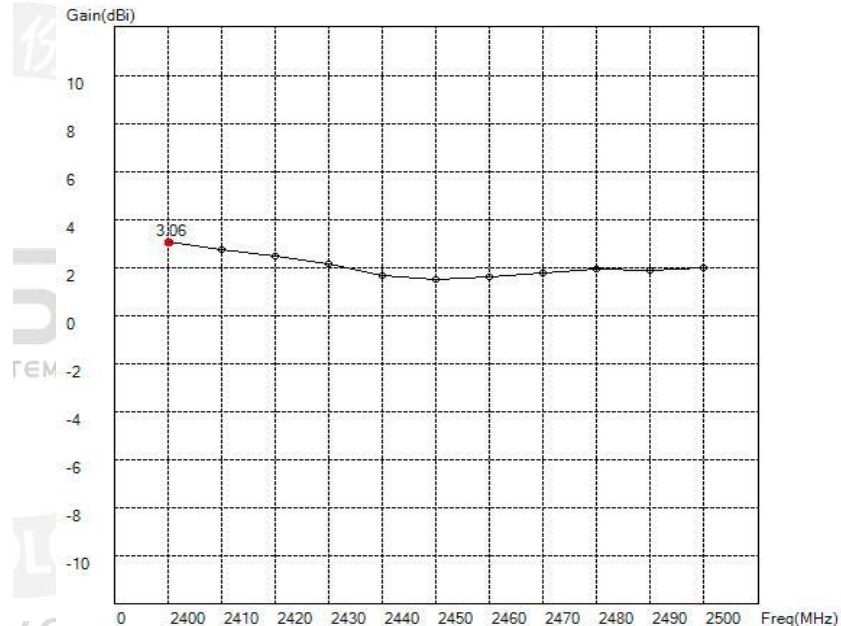
2. Antenna Characteristics

WiFi-1-2.4G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2410 MHz : 59.35 %

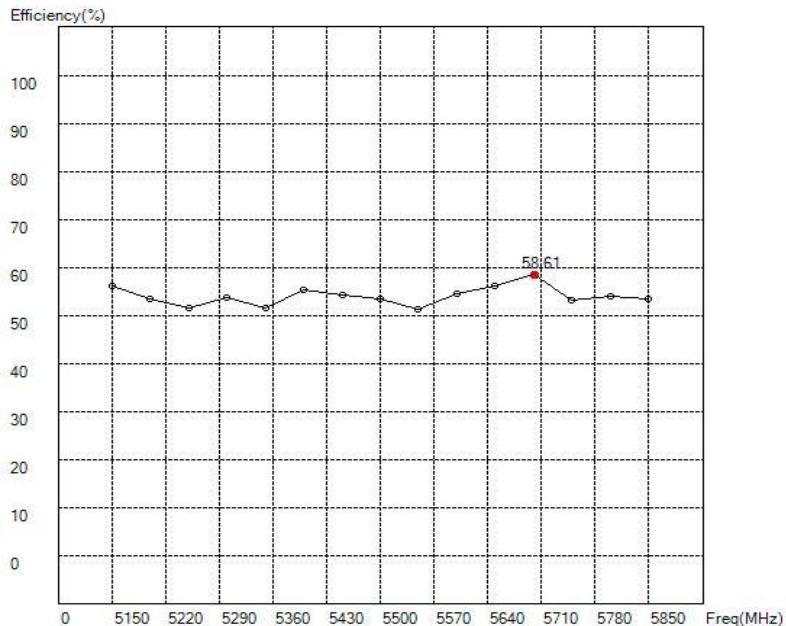


Maximum Peak Gain at 2400MHz : 3.06dBi

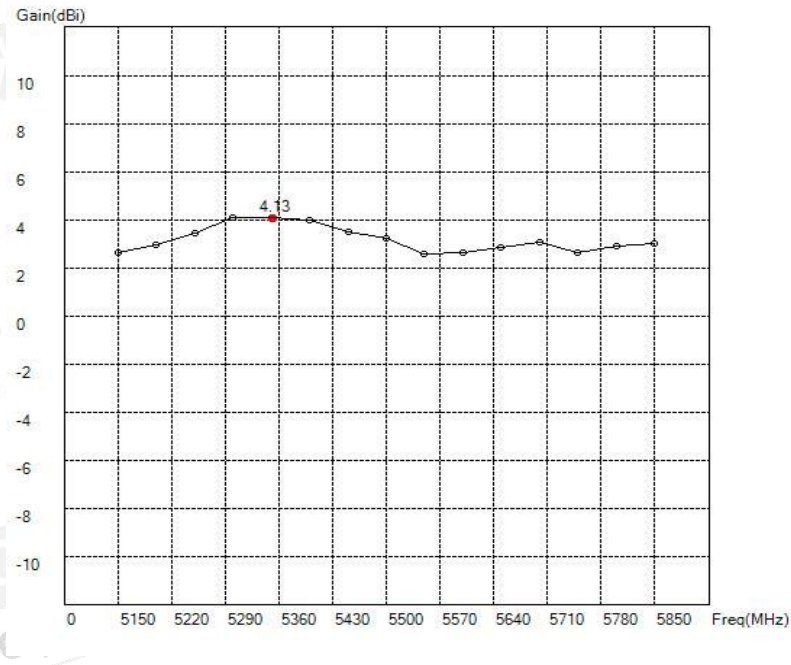
2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

WiFi-1-5G



Maximum Efficiency at 5700 MHz : 58.61 %

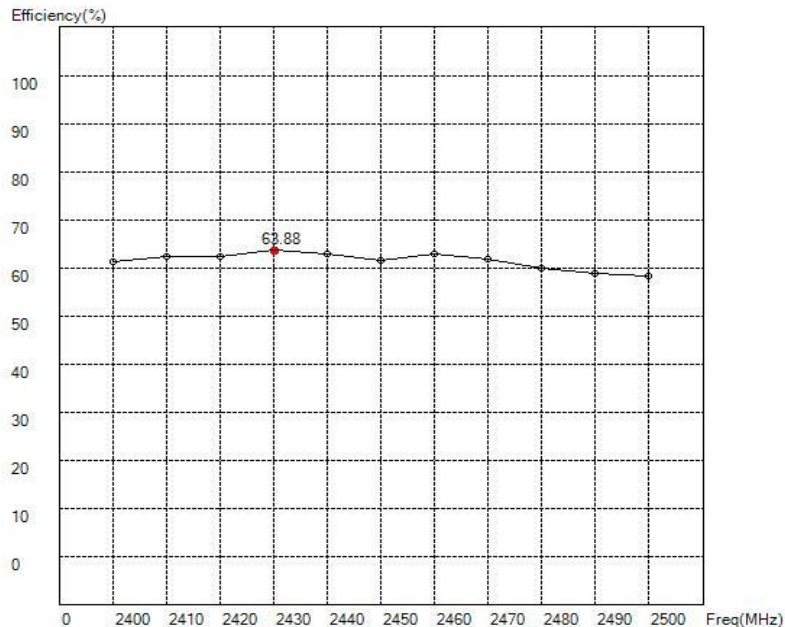


Maximum Peak Gain at 5350MHz : 4.13dBi

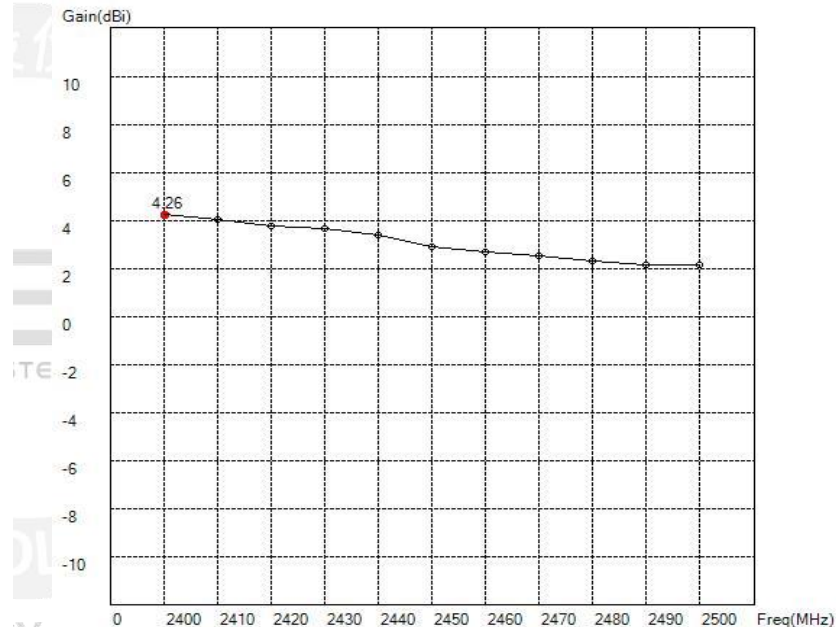
2. Antenna Characteristics

WiFi-2-2.4G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2430 MHz : 63.88 %

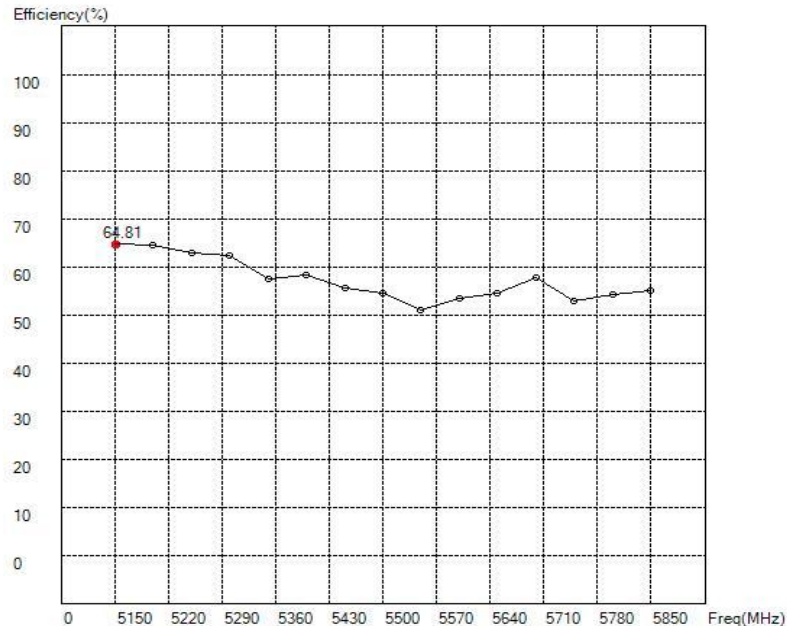


Maximum Peak Gain at 2400MHz : 4.26dBi

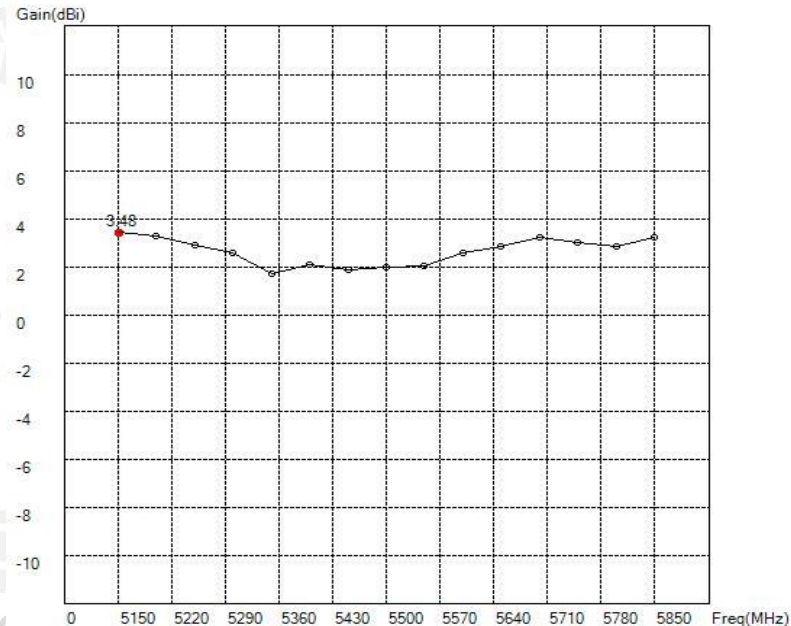
2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

WiFi-2-5G



Maximum Efficiency at 5150 MHz : 64.81%

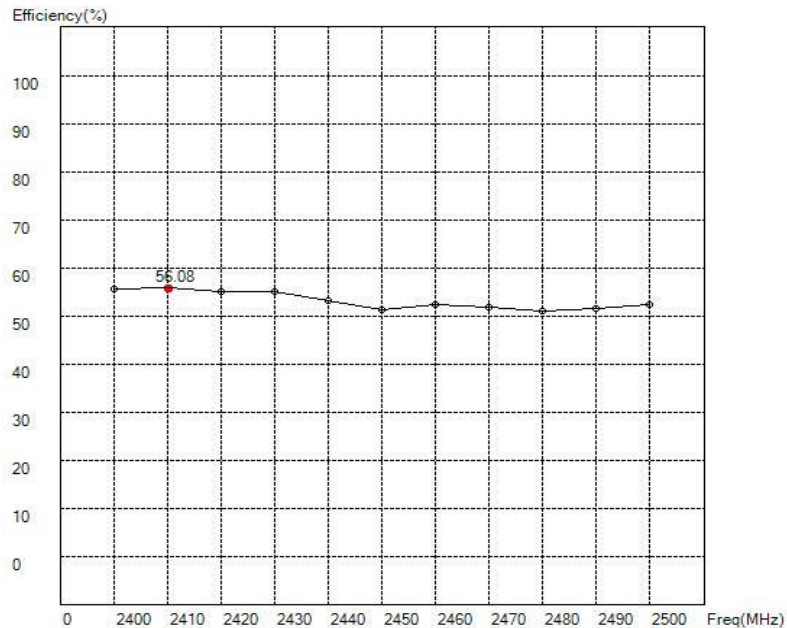


Maximum Peak Gain at 5150MHz : 3.48dBi

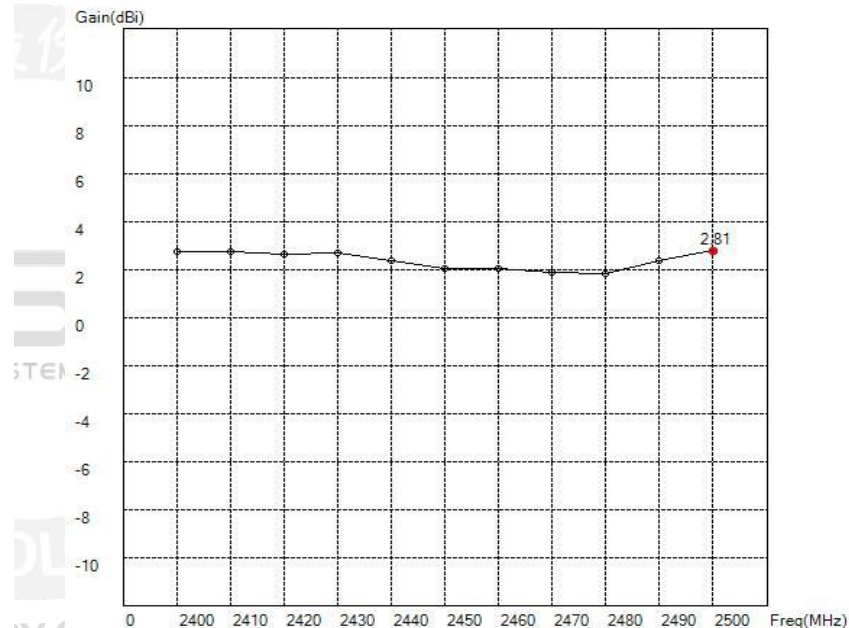
2. Antenna Characteristics

BT

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2410 MHz : 56.08 %



Maximum Peak Gain at 2500MHz : 2.81dBi

2. Antenna Characteristics

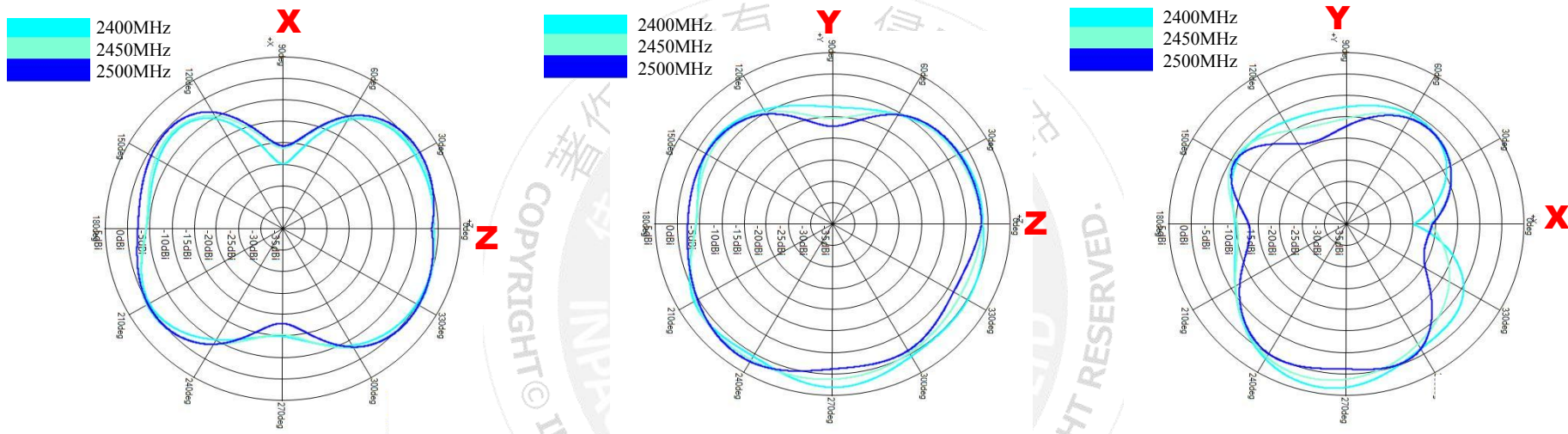
2.2 Antenna Efficiency and Peak Gain

	WiFi-1		WiFi-2		BT	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)	Efficiency (%)	Peak gain (dBi)	Efficiency (%)	Peak gain (dBi)
2400	59.01	3.06	61.27	4.26	55.76	2.74
2450	56.70	1.54	61.54	2.93	51.42	2.07
2500	56.71	2.02	58.46	2.15	52.51	2.81
5150	56.14	2.63	64.81	3.48	/	/
5500	53.58	3.26	54.65	1.99	/	/
5850	53.64	3.02	55.09	3.24	/	/

2. Antenna Characteristics

WiFi-1-2.4G

2.3 2D Radiation Patterns

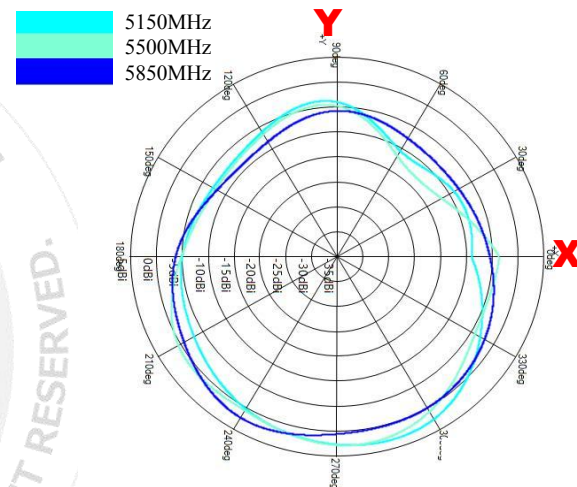
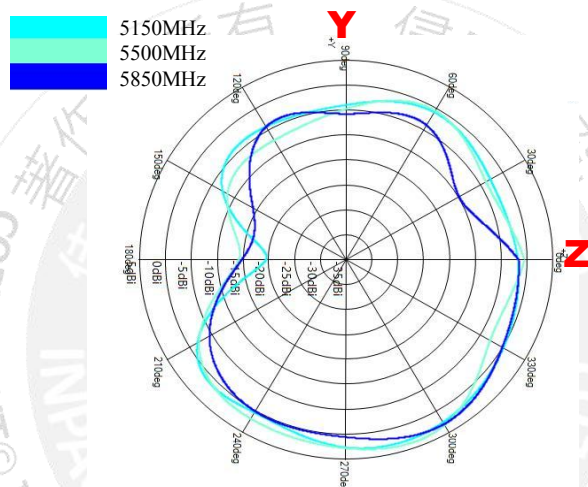
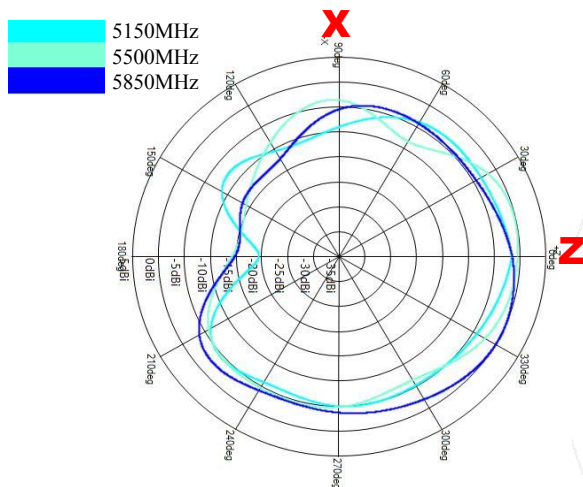


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-0.09	-2.75	3.06	-0.55	3.06	-3.14
2450	0.57	-2.32	1.54	-1.25	1.18	-4.33
2500	0.71	-2.30	2.02	-1.75	-0.09	-5.34

2. Antenna Characteristics

WiFi-1-5G

2.3 2D Radiation Patterns

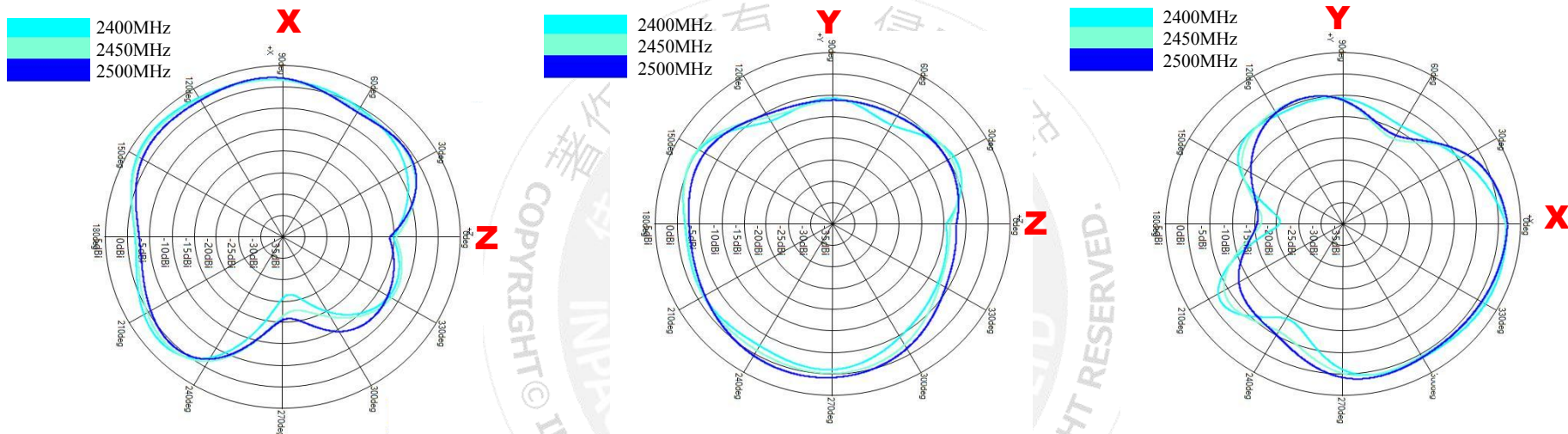


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	-1.54	-4.39	2.63	-0.43	2.60	-2.23
5500	-0.43	-3.45	3.26	-0.27	2.76	-2.11
5850	0.10	-3.05	3.02	-1.33	2.23	-2.41

2. Antenna Characteristics

WiFi-2-2.4G

2.3 2D Radiation Patterns

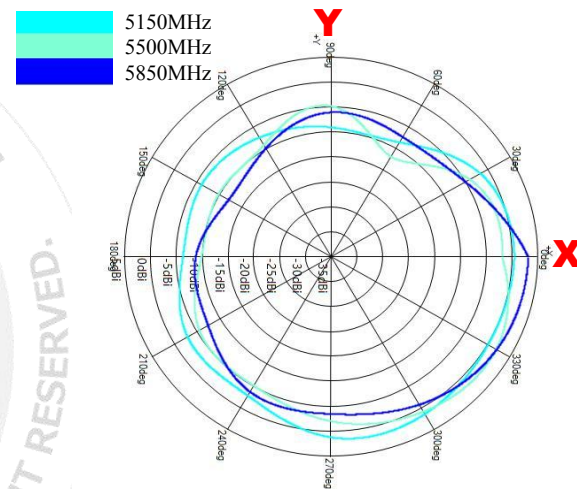
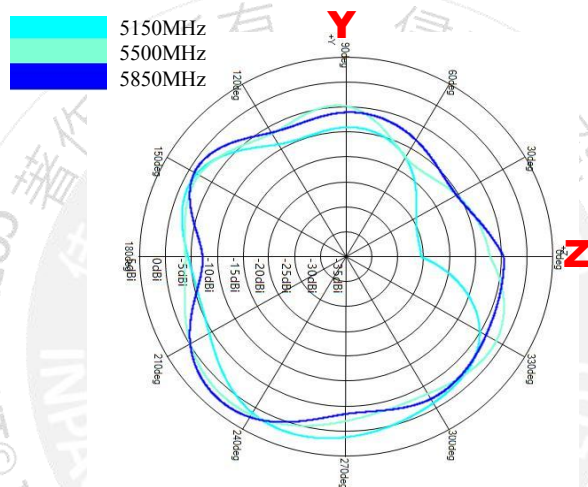
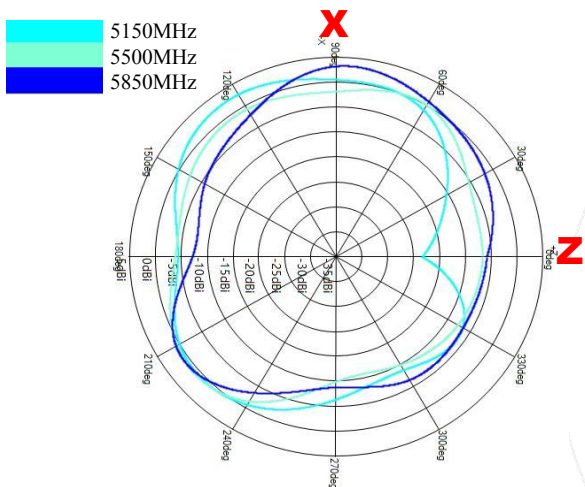


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	2.82	-1.93	-0.26	-4.48	2.12	-2.30
2450	2.47	-1.98	-0.01	-3.76	1.63	-2.40
2500	2.15	-2.16	0.77	-3.04	2.15	-2.26

2. Antenna Characteristics

2.3 2D Radiation Patterns

WiFi-2-5G

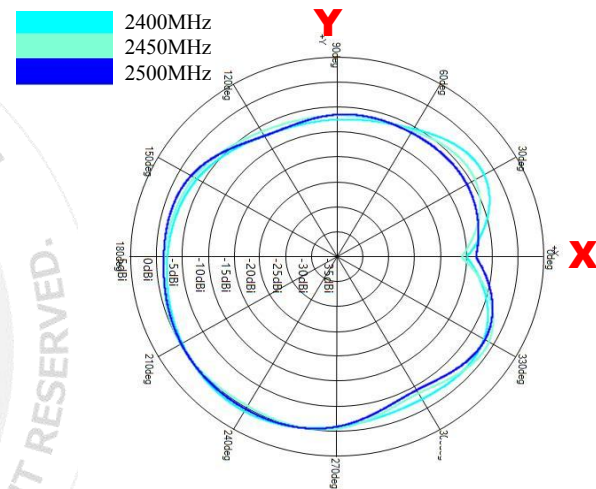
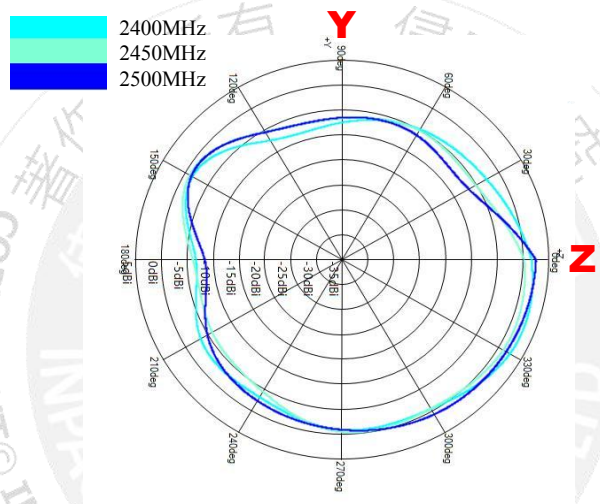
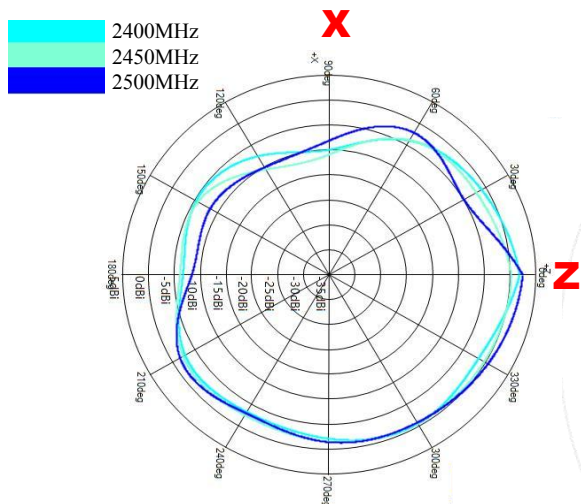


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	2.65	-2.41	1.16	-3.99	1.38	-2.03
5500	0.56	-3.01	1.58	-3.14	1.99	-3.17
5850	3.24	-1.71	2.10	-2.97	3.24	-2.55

2. Antenna Characteristics

2.3 2D Radiation Patterns

BT

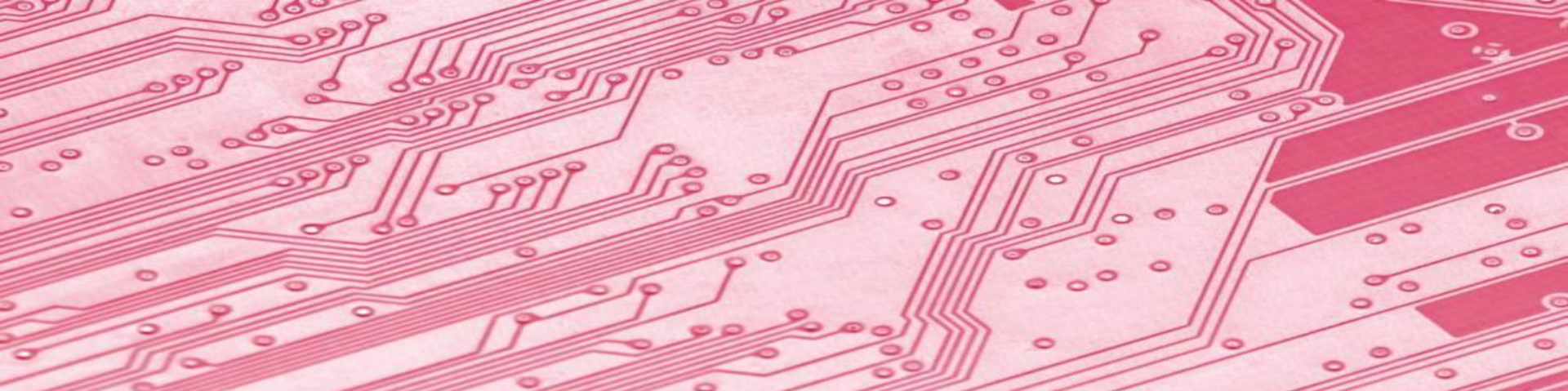


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.95	-1.47	2.59	-1.03	0.75	-2.61
2450	0.38	-1.94	1.09	-1.98	-0.06	-2.72
2500	2.56	-1.02	2.61	-0.86	0.26	-2.85

3. Summary

- The performance of antennas is shown in table

	WiFi-1-2.4G	WiFi-1-5G	WiFi-2-2.4G	WiFi-2-5G	BT
Maximum Efficiency (%)	59.35	58.61	63.88	64.81	56.08
Maximum Gain (dBi)	3.06	4.13	4.26	3.48	2.81



Title for Image (above image could be replaced)

Content Details

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.

Thank you

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