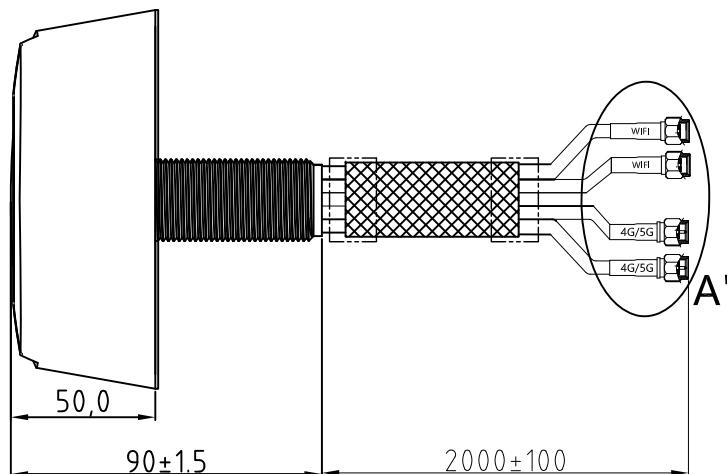
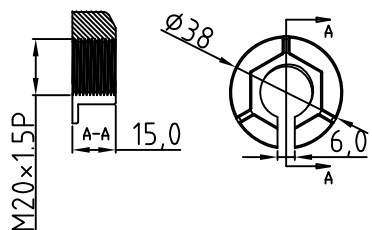


Screw 4x25mm
6PCS PE/BAG



BOM				
NO	Name	Material	Finish	QTY
1	Housing	ABS+PC	BLACK	1
2	CFD200 cable(5G)	PVC	BLACK	2
3	CFD100 cable (WIFI)	PVC	BLACK	2
4	5G/4G Antenna			2
5	WIFI Antenna			2
6	SMA Male (5G)	BRASS	GOLD	2
7	RP-SMA Male(WIFI)	BRASS	GOLD	2
8	Bolt	ABS+PC	BLACK	1
9	NUT	PA66	BLACK	1
10	Shrink tube	PE		4
11	Rubber		BLACK	1
12	cable sleeve	PET	BLACK	1



Tolerance	
.X	±0.1
.XX	±0.05
.x	±1°

DRAWN BY	li	MATERIAL:		PART NO:	M131.M0.4.334
CHECKED BY		FINISH:	BLACK	TITLE:	M131 5G/WIFI 4 in 1
APPROVED BY	King	UNIT:	mm		
DATE:	22.8.23	SCALE:	1/1		

Electrical Properties	
Frequency Range	2* 600~6000MHZ 2* 2.4~2.5GHZ 5.15~7.125GHZ
Impedance	50 Ω
V.S.W.R.	5G ≤3.0 WIFI ≤2.0
Radiation	Omni
Gain	5G:7±1DBi WIFI:7±1DBi
Polarization	Vertical
Mechanical Properties	
Whip	PC+ABS
Standard Connector	SMA
Waterprooflevel	IP68
Operating Temp	-φ40°~ +85°



Specification

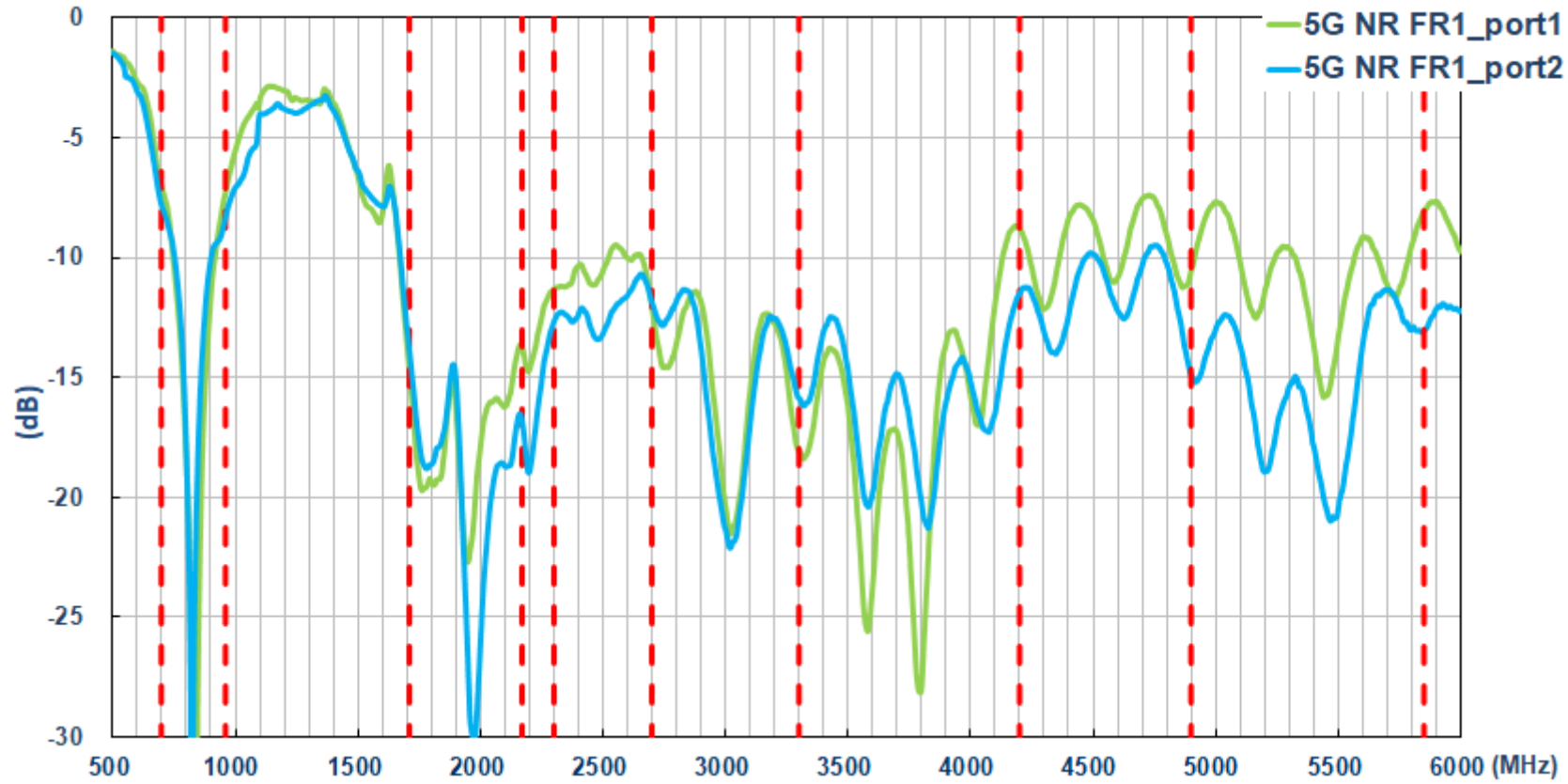
Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
5G NR FR1	2	698~960/1710~2690/3300~4200/5150~5850MHz	
WIFI	2	2400~2500/5150~5850MHz	

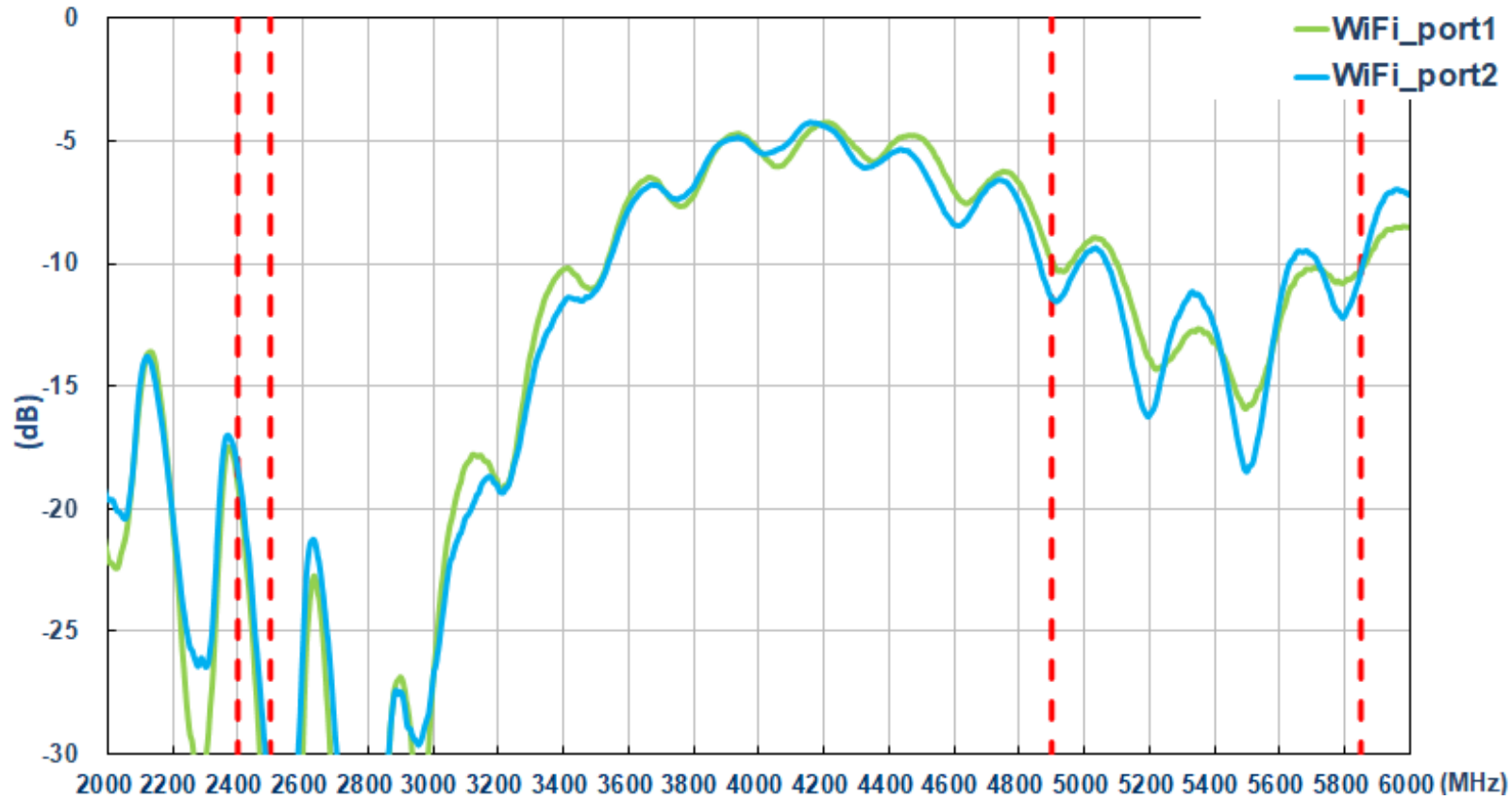
Requirements of Measurement

Test Item	Specification	Remark
Return Loss	<-8dB@5G NR FR1 <-10dB@WiFi	
Peak gain (without cable loss)	5G : 2dBi@698~960MHz; 4dBi@1710~2690MHz; 5dBi@3300~3800MHz; 6dBi@5150~5850MHz WiFi: 2dBi@2400~2500MHz; 6dBi@5150~5850MHz	
Efficiency (without cable loss)	5G : 50~80%@698~960; 50~80%@1710~2690; 45~70%@3300~3800; 45~70%@5150~5850 WiFi: 50~60%@2400~2500MHz; 50~80%@5150~5850MHz	

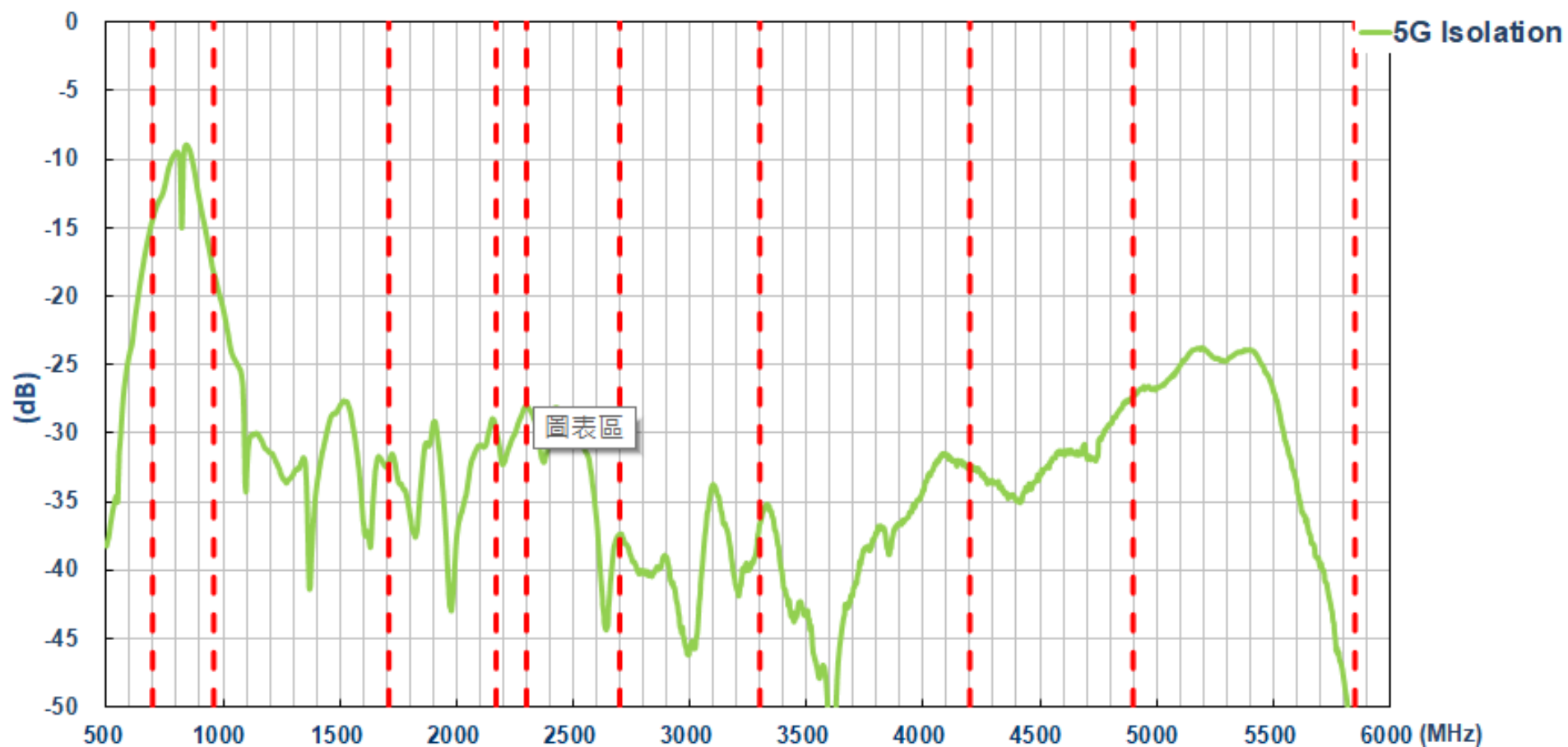
Return Loss_5G



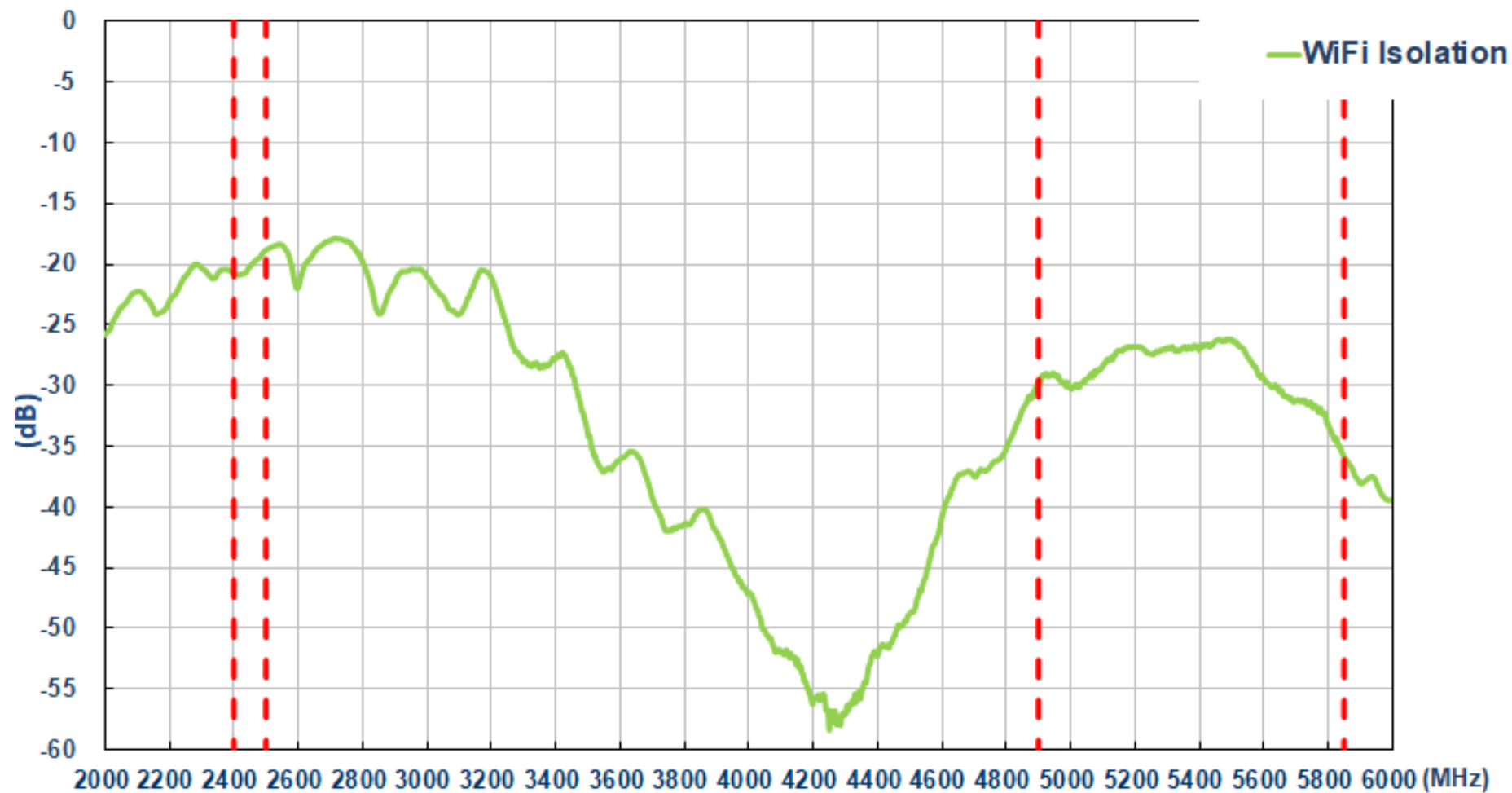
Return Loss_WiFi



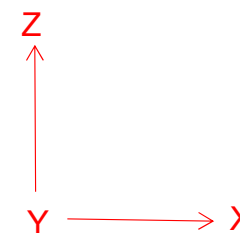
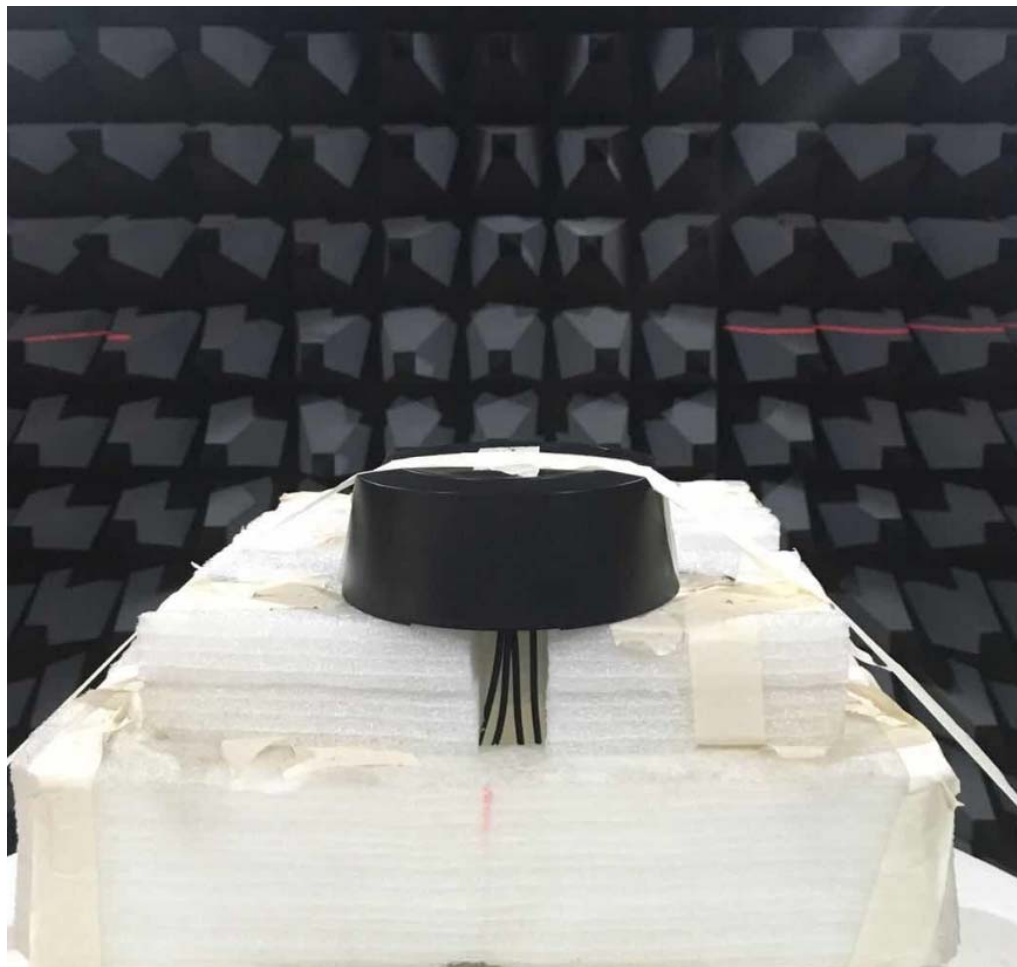
Isolation_5G



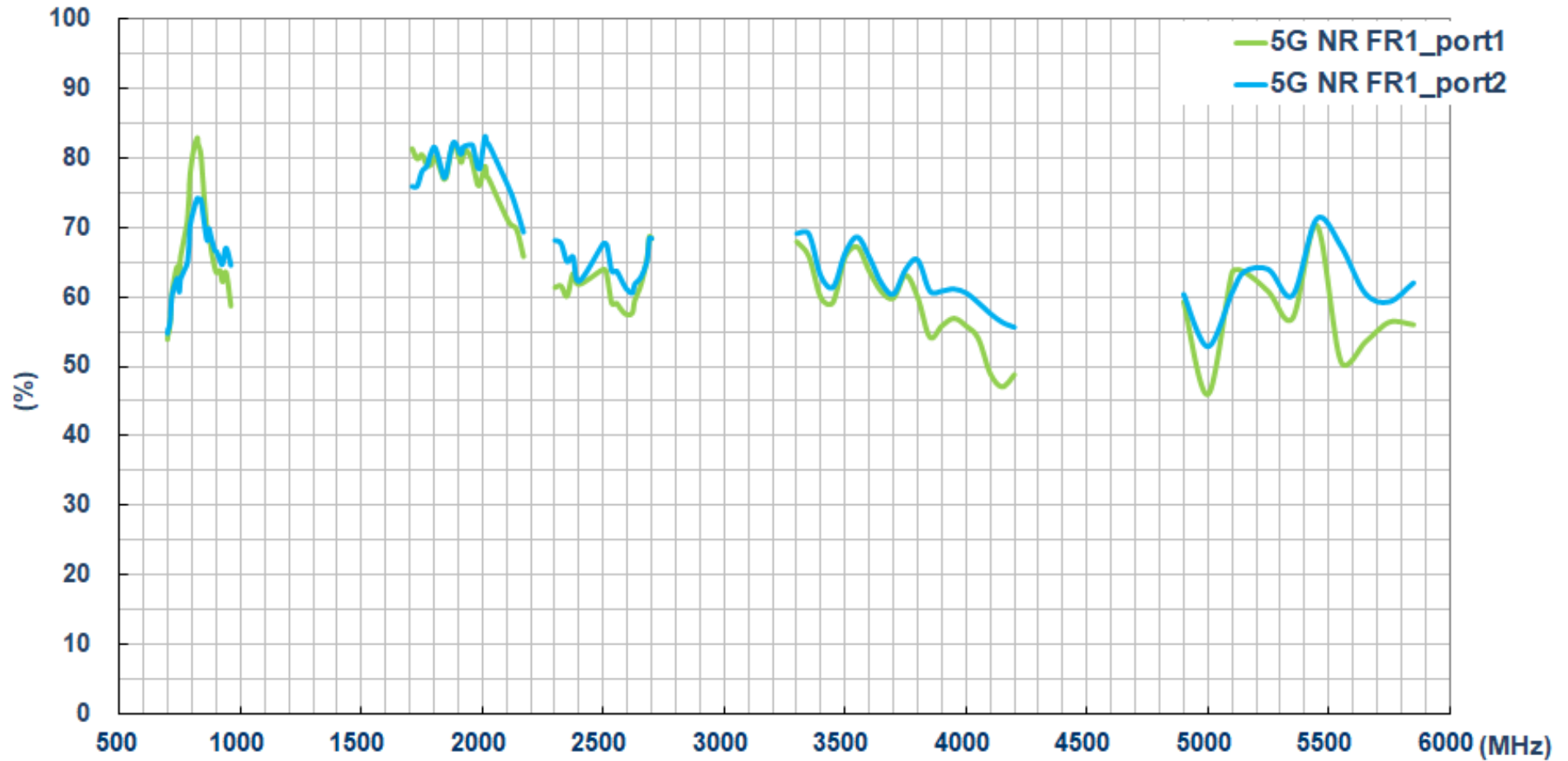
Isolation_WiFi



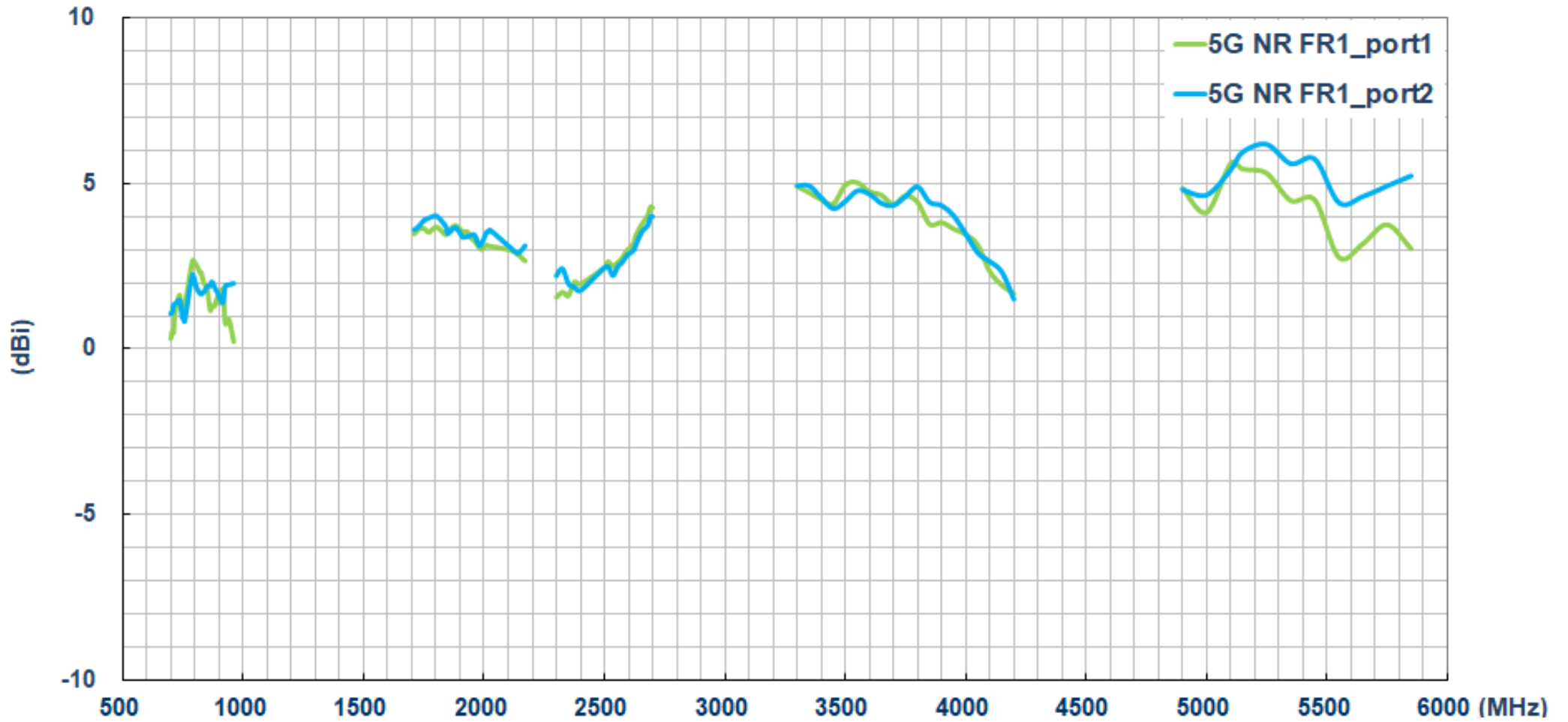
Test Setup



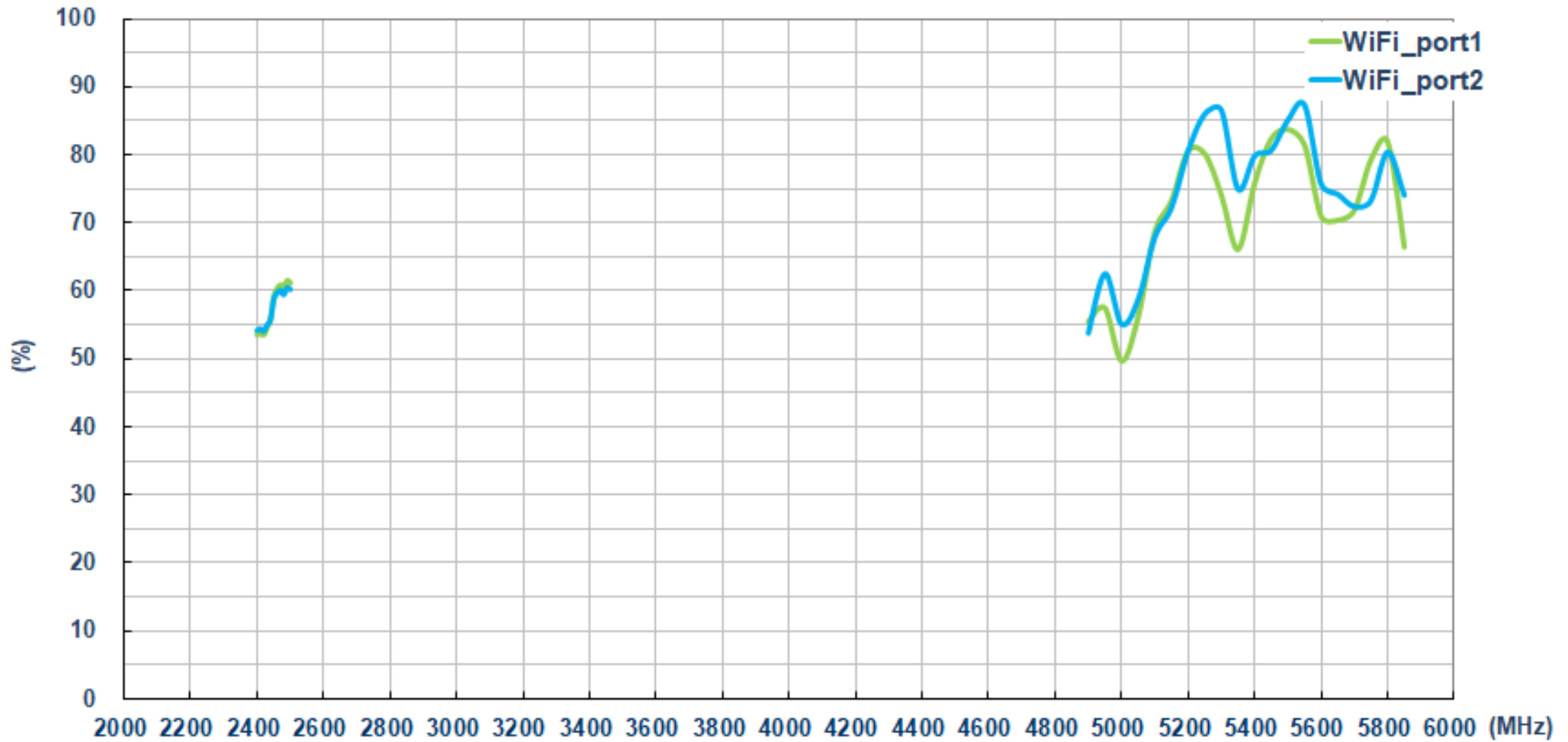
Efficiency_5G NR FR1



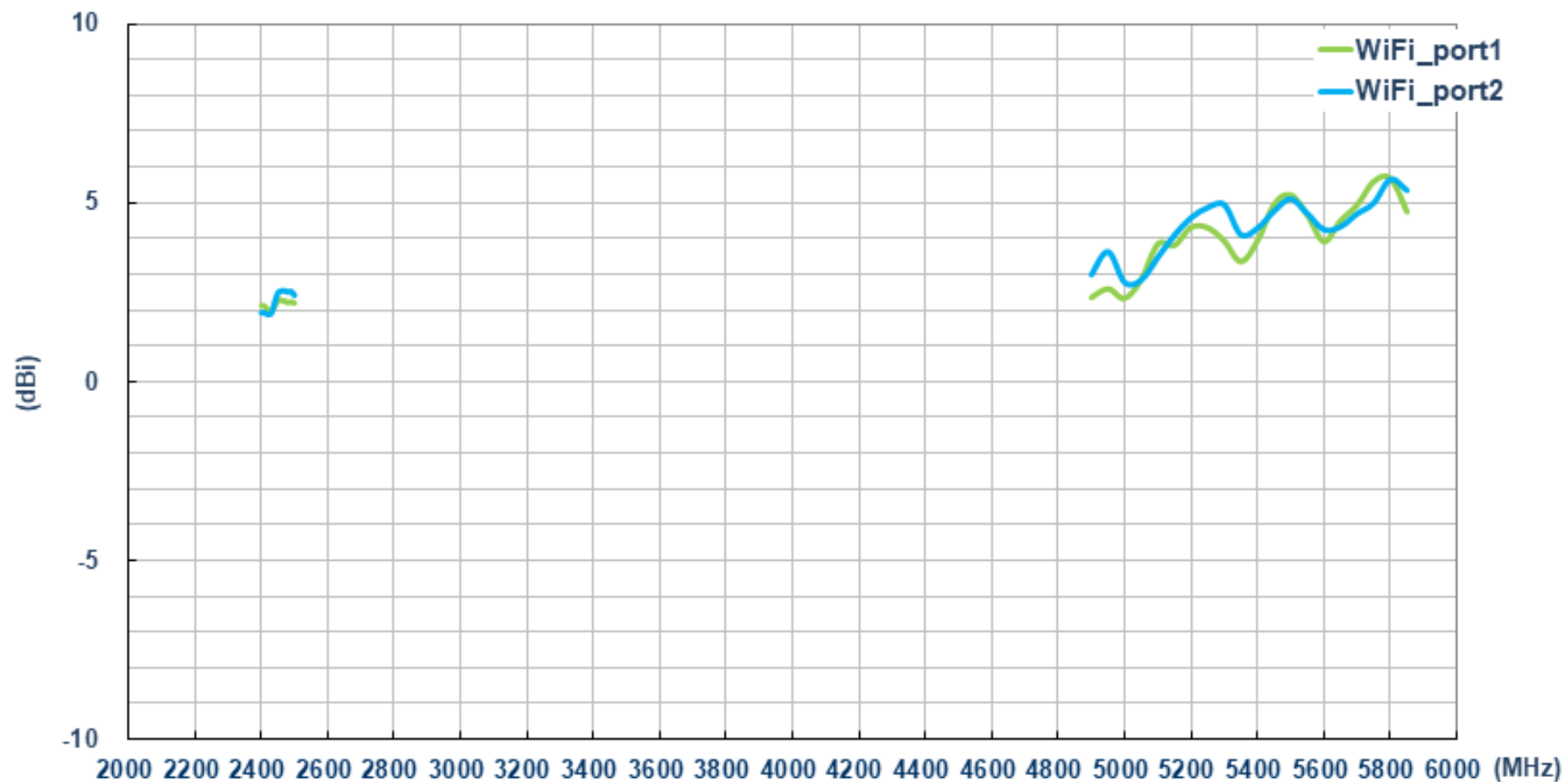
Peak Gain_5G NR FR1



Efficiency_WiFi



Peak Gain_WiFi

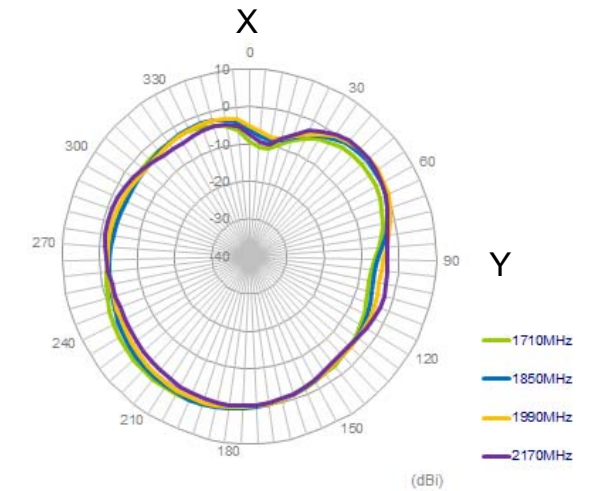
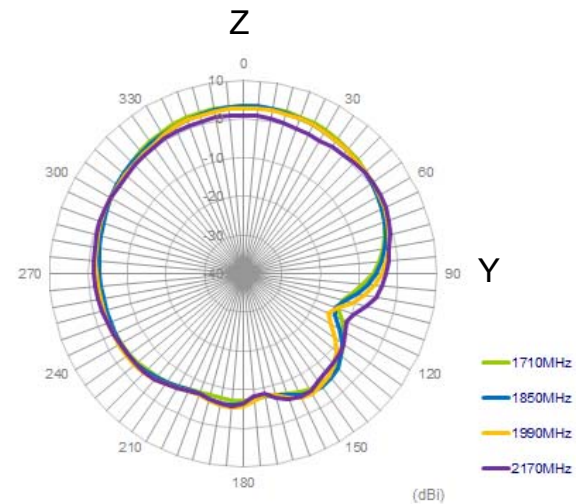
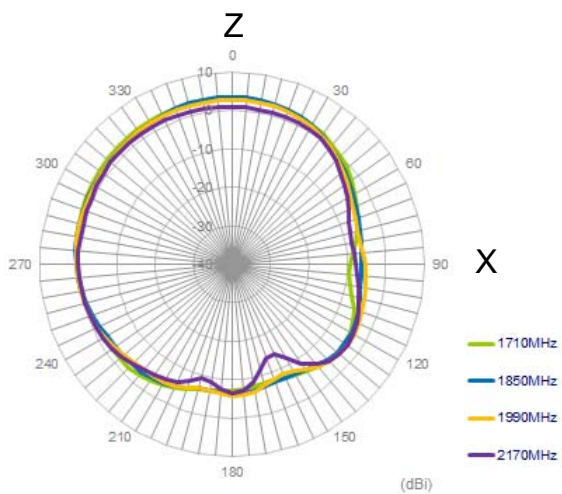
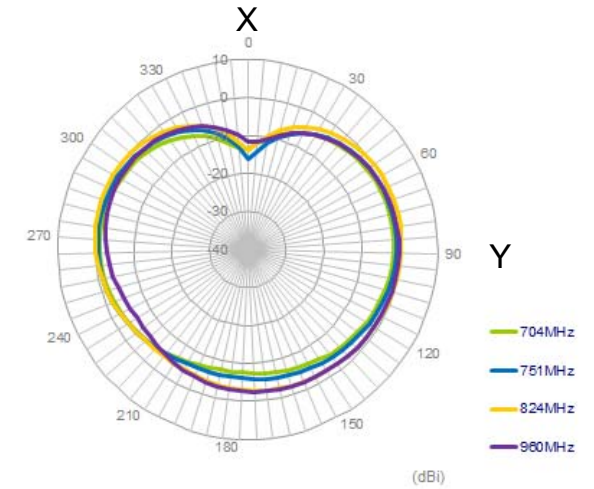
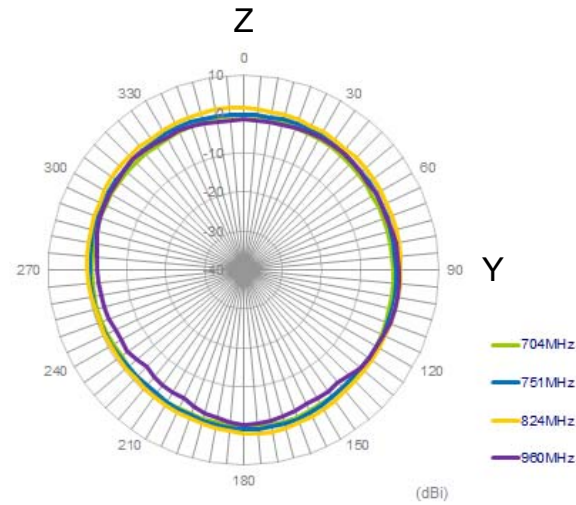
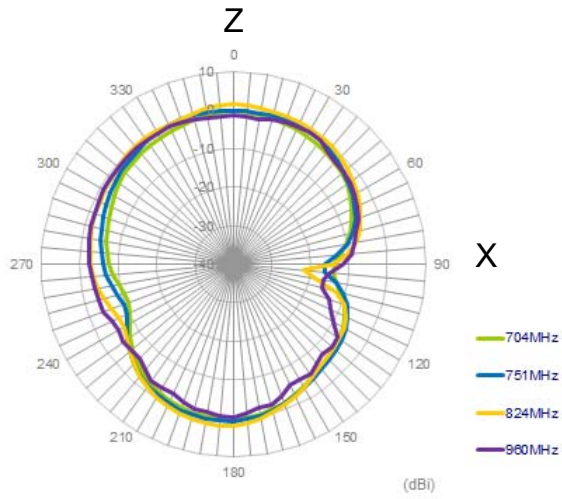


Gain Table

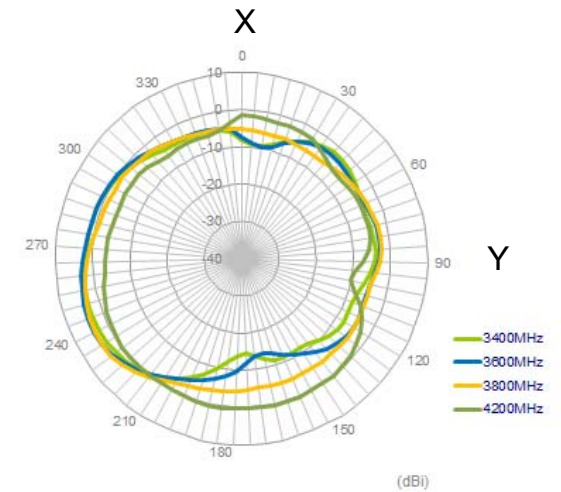
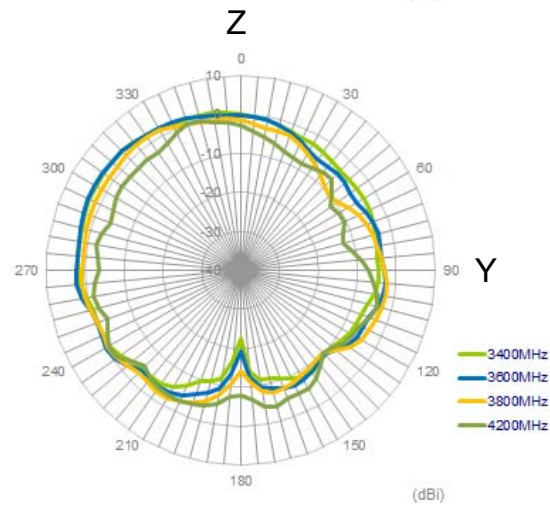
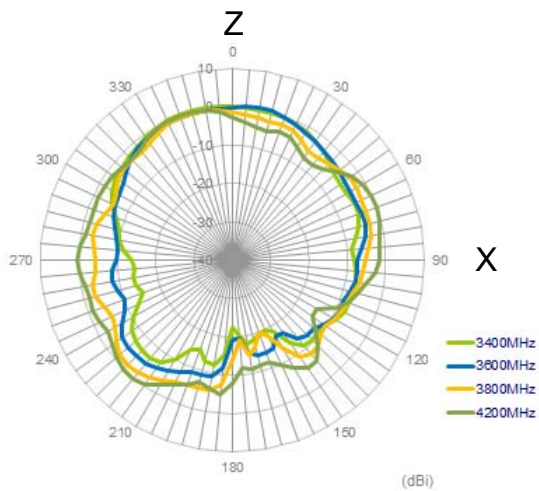
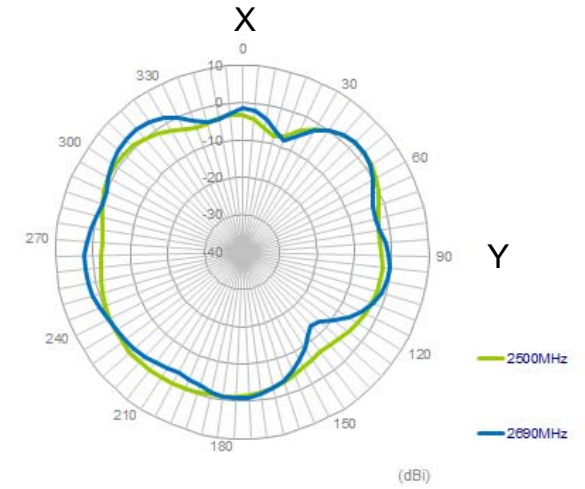
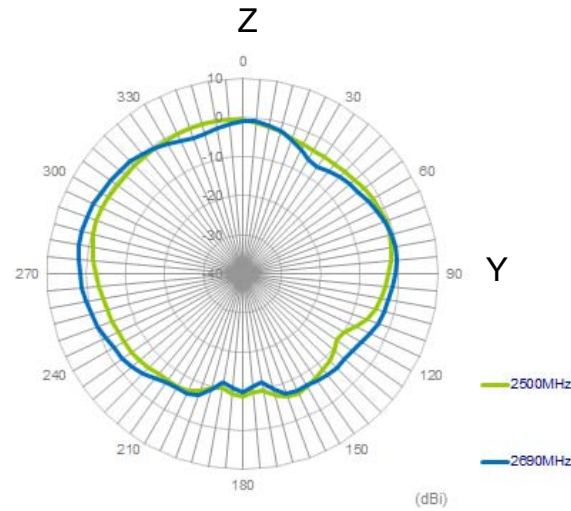
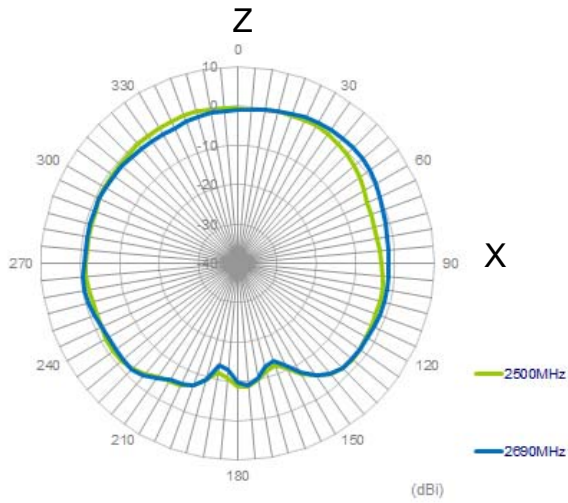
	698~960	1710~2170	2300~2690	3300~4200	5150~5850
	Efficiency				
5G NR FR1_port1	66.75	77.62	61.80	58.68	58.52
5G NR FR1_port2	64.95	78.95	64.85	62.48	63.53
	Peak gain				
5G NR FR1_port1	2.68	3.73	4.29	5.02	5.43
5G NR FR1_port2	2.24	4.00	4.00	4.93	6.18

	WiFi 2.4G 2400~2500	WiFi 5G 4900~5850
	Efficiency	
WiFi_port1	57.72	75.89
WiFi_port2	57.46	78.89
	Average gain	
WiFi_port1	2.28	5.68
WiFi_port2	2.55	5.66

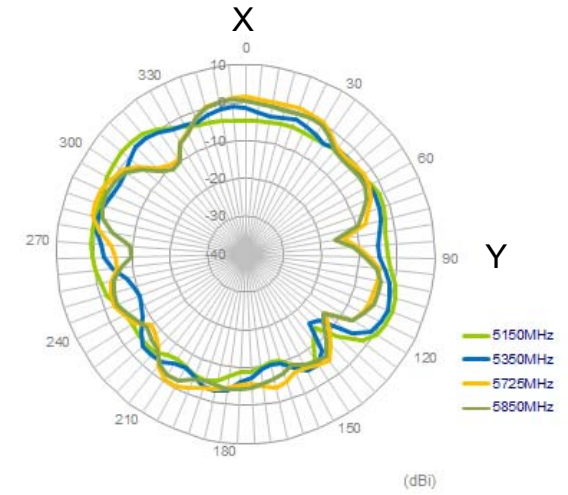
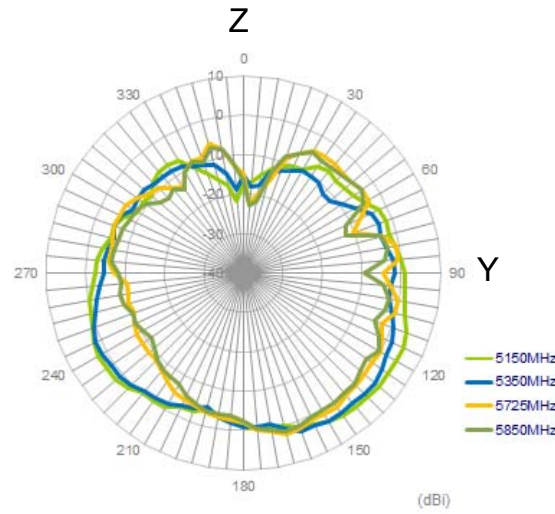
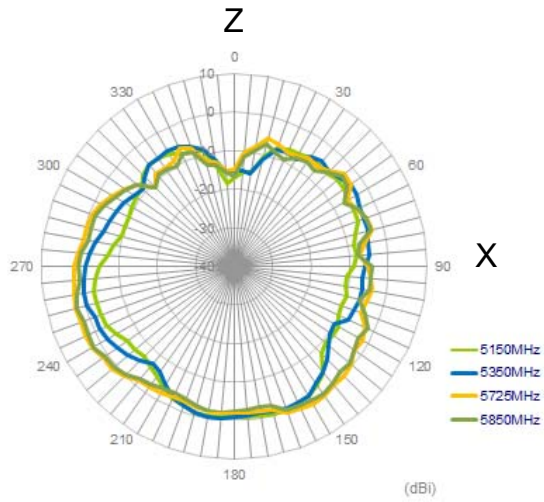
2D Radiation Pattern Results_5G_port1



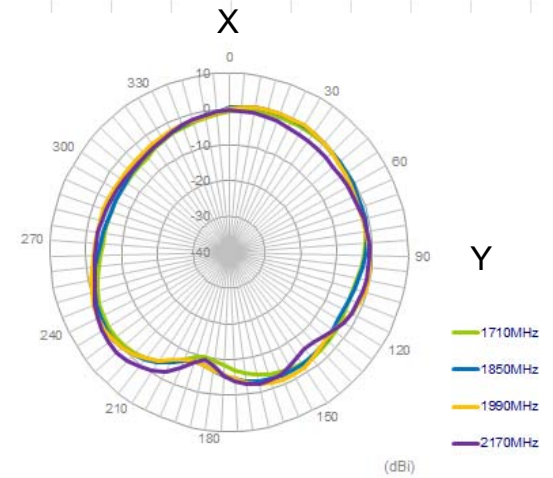
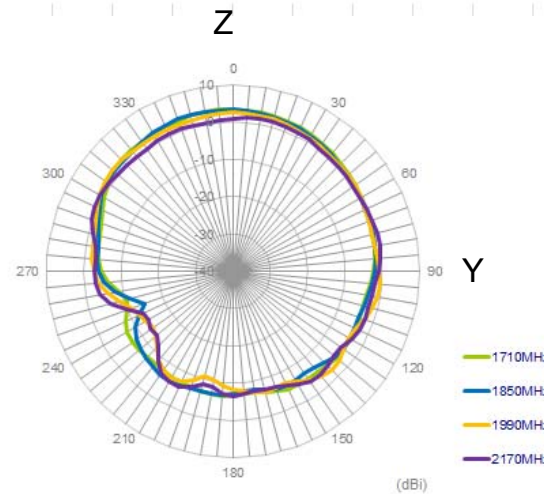
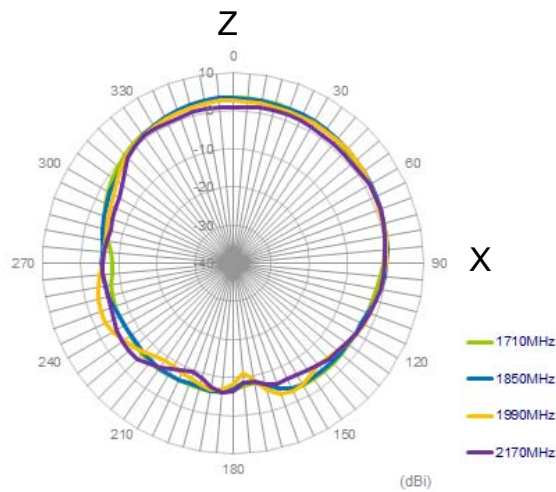
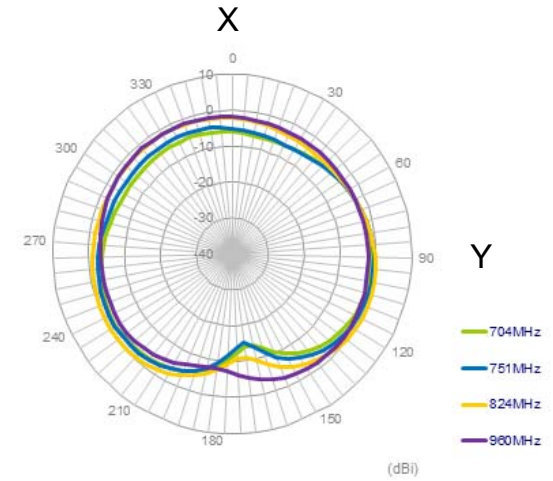
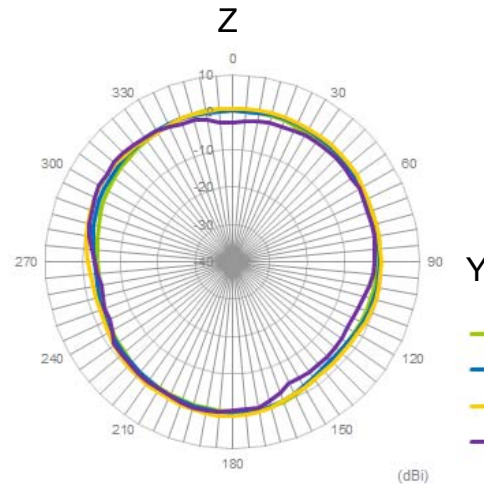
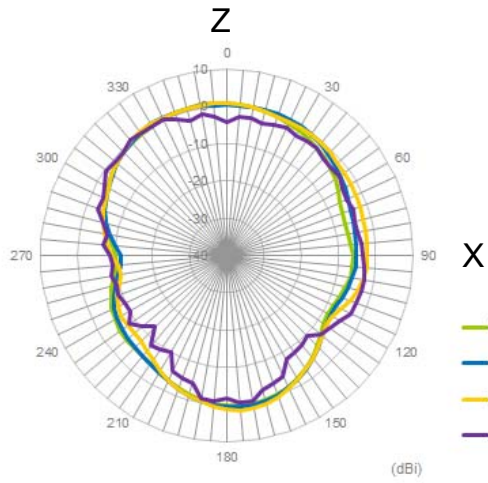
2D Radiation Pattern Results_5G_port1



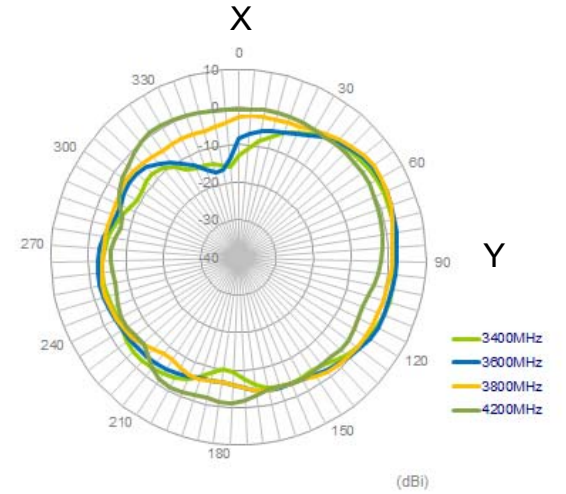
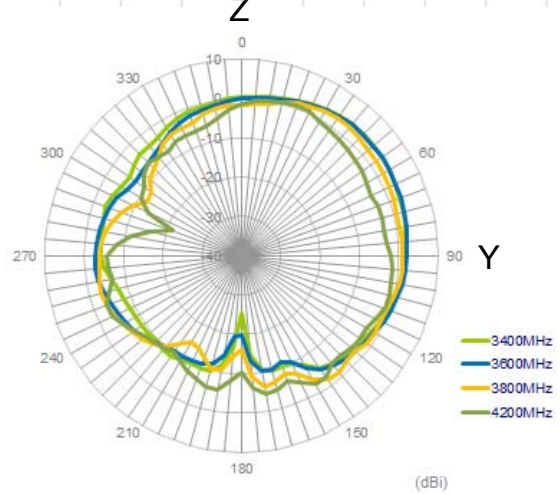
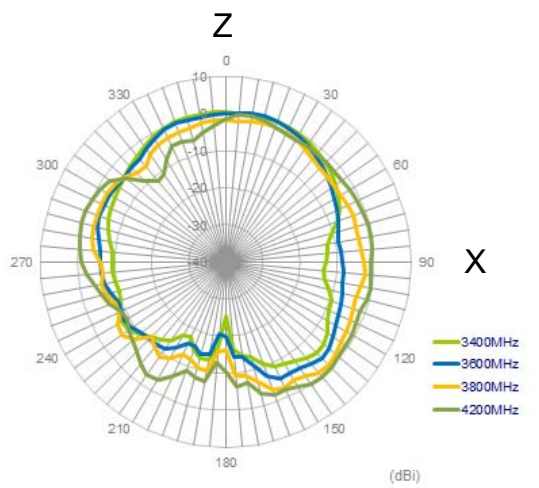
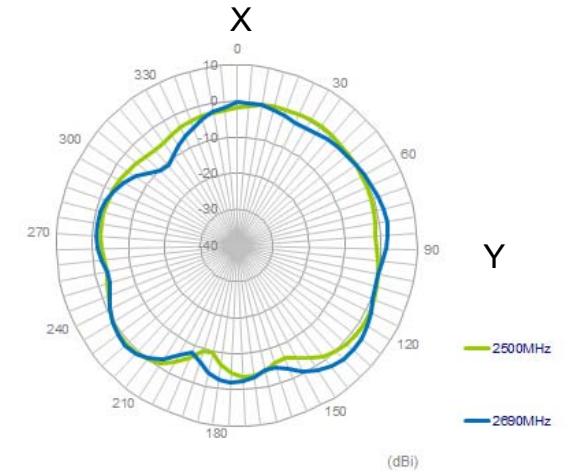
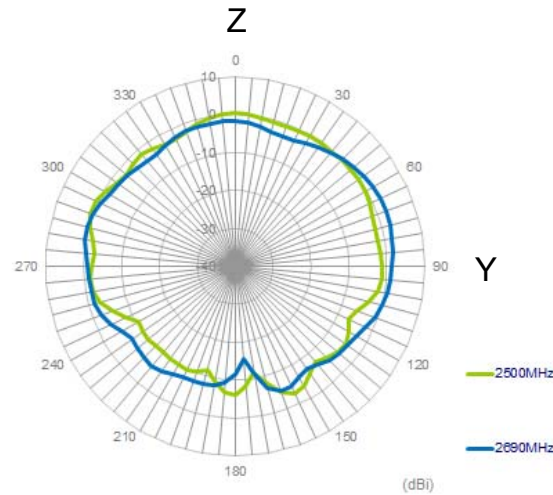
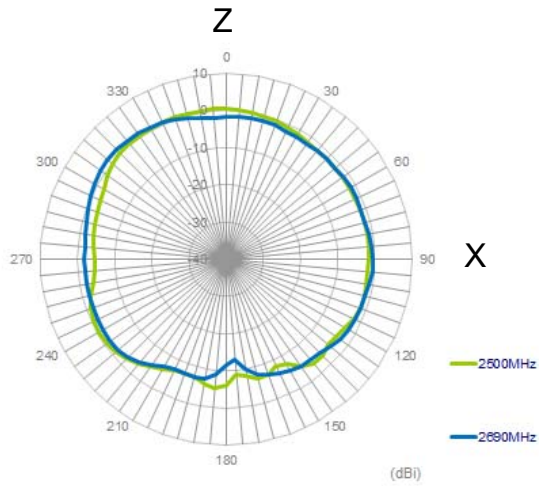
2D Radiation Pattern Results_5G_port1



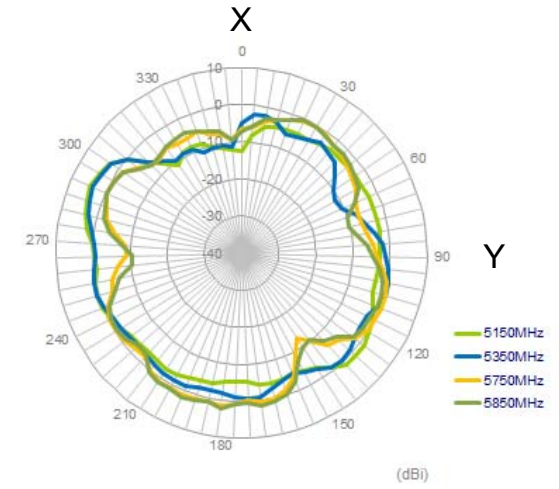
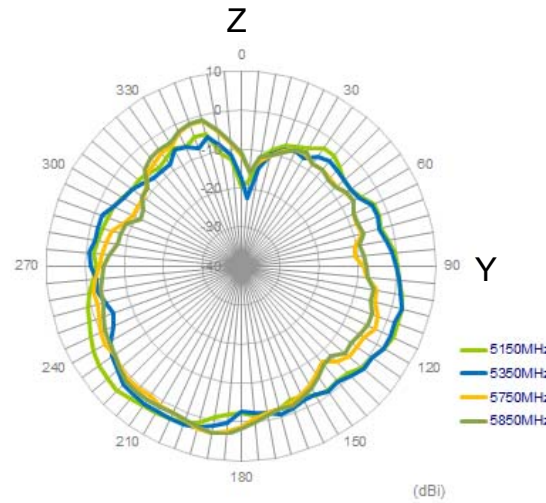
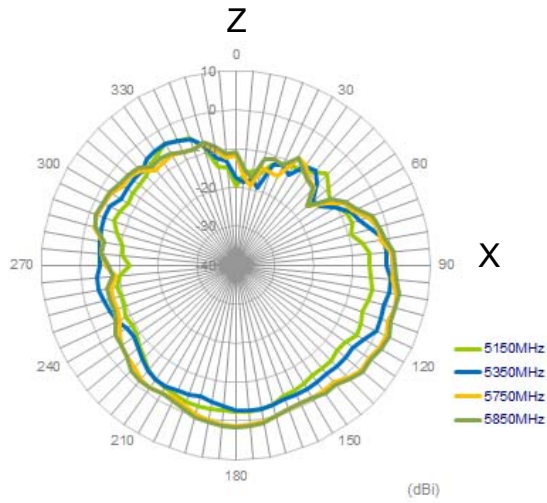
2D Radiation Pattern Results_5G_port2



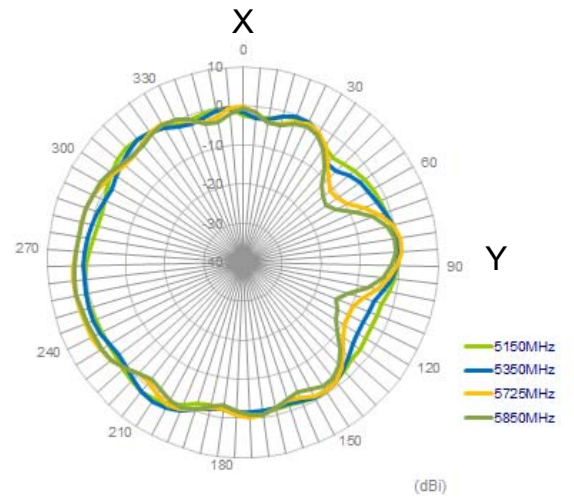
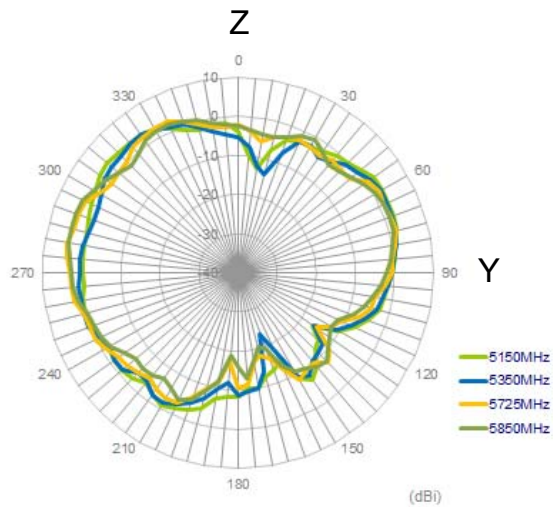
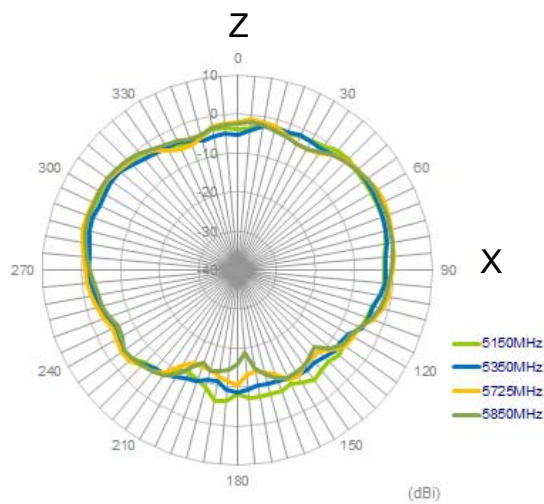
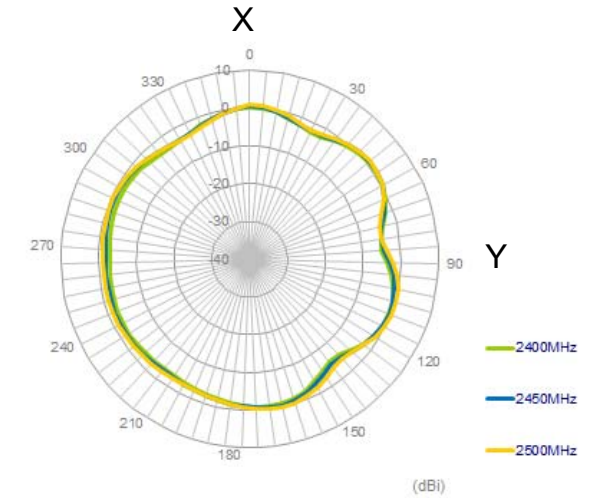
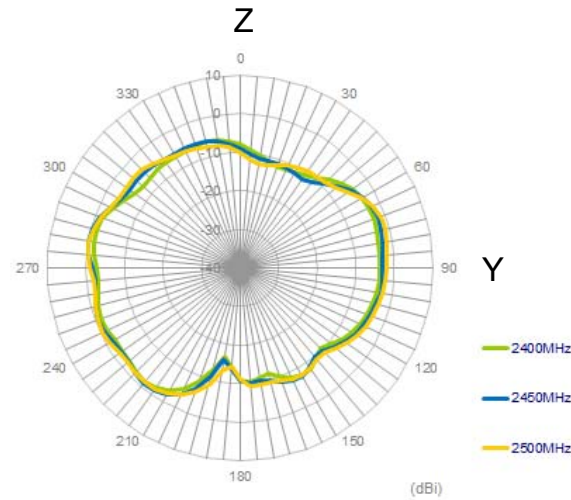
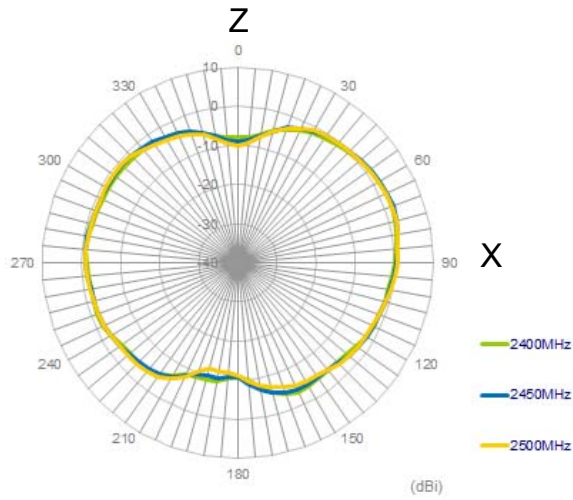
2D Radiation Pattern Results_5G_port2



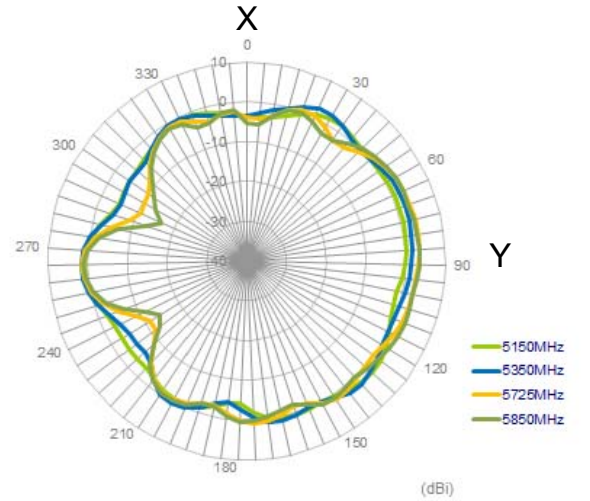
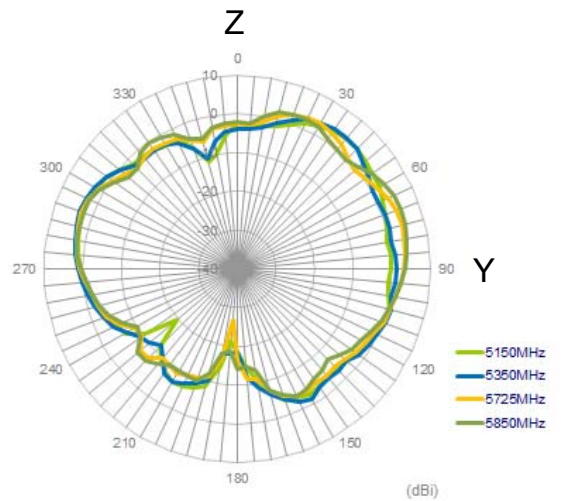
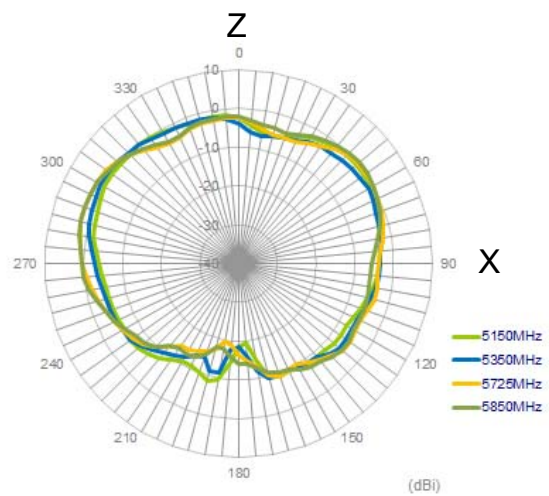
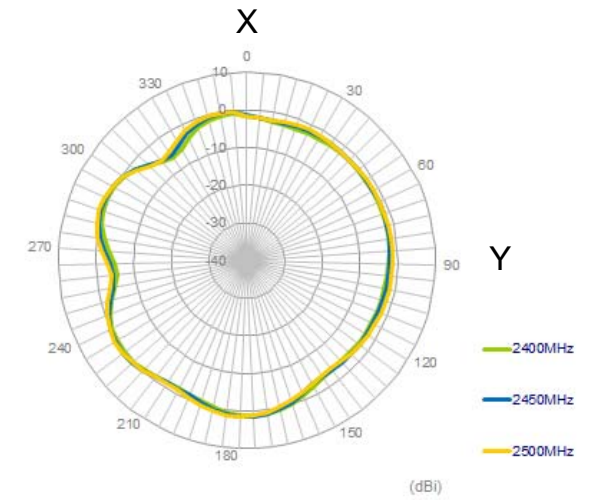
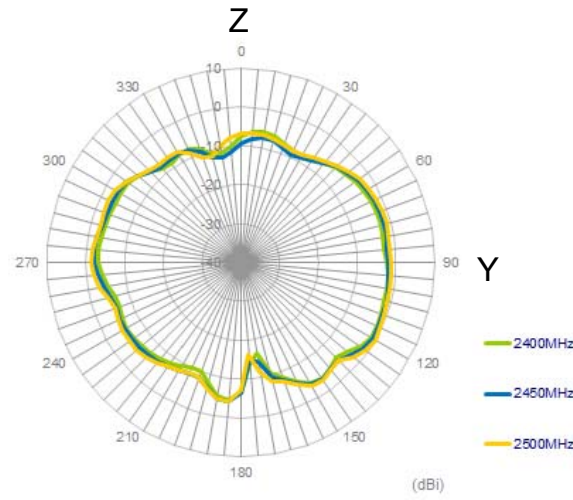
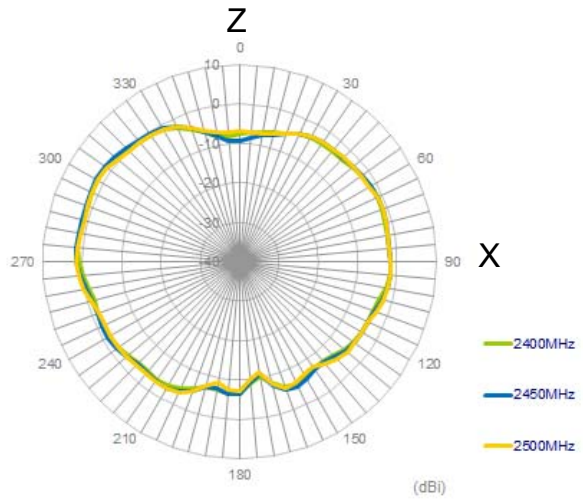
2D Radiation Pattern Results_5G_port2



2D Radiation Pattern Results_WiFi_port1



2D Radiation Pattern Results_WiFi_port2



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