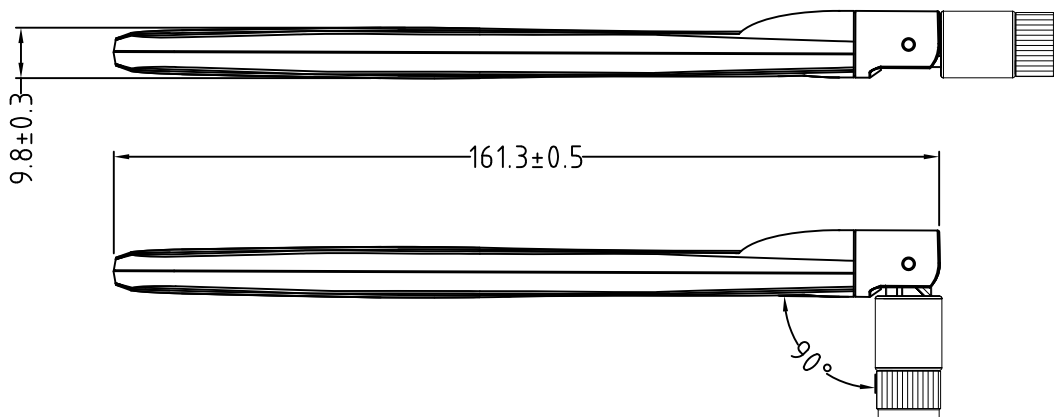
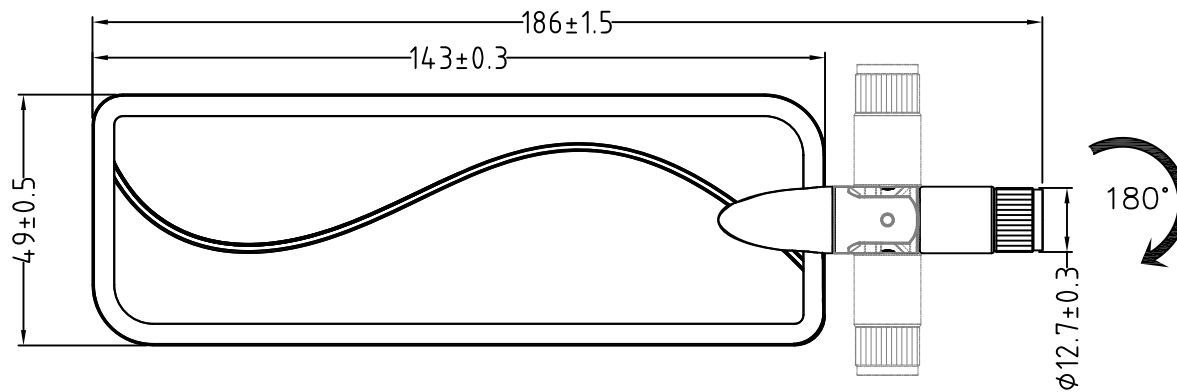


D192 Antenna
600~6000MHz Antenna
test report

Version: V 1.0

Released Date: 2020/08/31

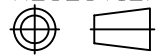


Electrical Properties	
Frequency Range	600~6000MHZ
Impedance	50 Ω
V.S.W.R.	≤3.5
Radiation	Omni
Gain	5dBi
Polarization	Vertical
Mechanical Properties	
Whip	PC+ABS
Standard Connector	SMA(Male)
Weight	- g(est)
Operating Temp	-40°~ +80°

BOM

NO	Name	Material	Finish	QTY
1	Top	PC+ABS	BLACK	1
2	Bottom	PC+ABS	BLACK	1
3	RG 178 Coaxial cable	FEP	Brown	1
4	SMA Male	Brass	NI	1
5	SMA COVER	POM	BLACK	1
6	PCB Antenna	FR4	BLACK	1

THIRD ANGLE PROJECTION



Tolerance
 .X ±0.1
 .XX ±0.05
 .x ±1°

DRAWN BY	li	MATERIAL:		PART NO:	D192.C1.0.996 (REV B)
CHECKED BY		FINISH:	BLACK	TITLE:	4G/5G Antenna
APPROVED BY	King	UNIT:	mm		
DATE:	21. 1. 27	SCALE:	1/1		



Contents

- Revised History
- Specification
- Antenna Placement & Solution
- Return Loss
- Test Setup
- Efficiency & PeakGain & Gain Table
- 2D Radiation Pattern Results



Revision History



Released Date	Version	Record
2020/08/31	1.0	Antenna test report

Specification



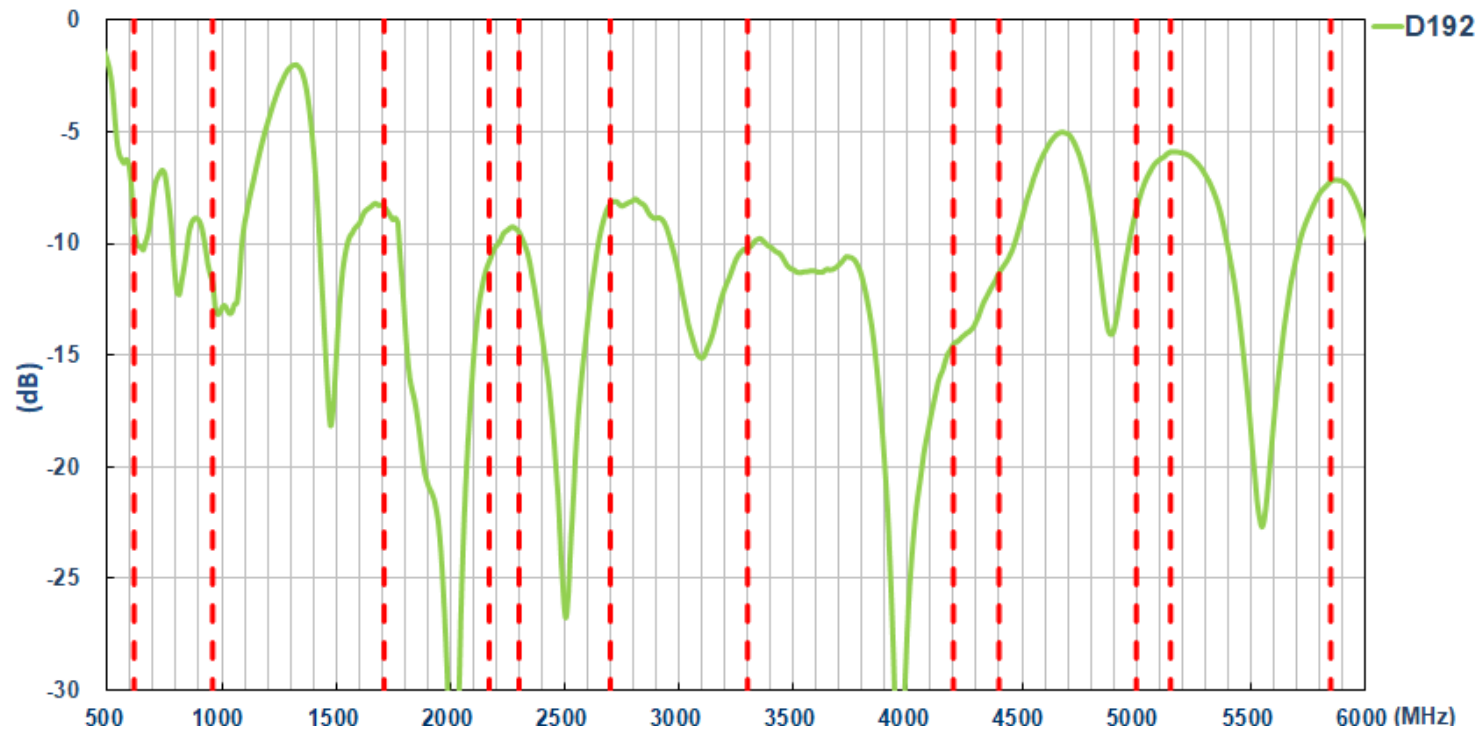
Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
5G NR FR1	1	617~960/1710~2690/3300~4200/4400~5000/5150~5850MHz	

Requirements of Measurement

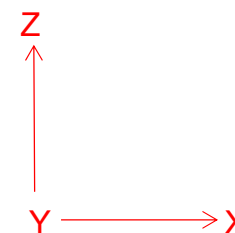
Test Item	Specification	Remark
Return Loss	<-5dB	
Peak gain(without cable loss)	2dBi@617~960MHz; 2dBi@1710~2170MHz; 4dBi@2300~2700MHz 4dBi@3300~420MHz; 5dBi@4400~5000MHz; 3dBi@5150~5850MHz	
Efficiency(without cable loss)	45~75%@617~960MHz; 40~80%@1710~2170MHz; 55~70%@2300~2700MHz 60~80%@3300~4200MHz; 40~75%@4400~5000MHz; 45~80%@5150~5850MHz	

Return Loss

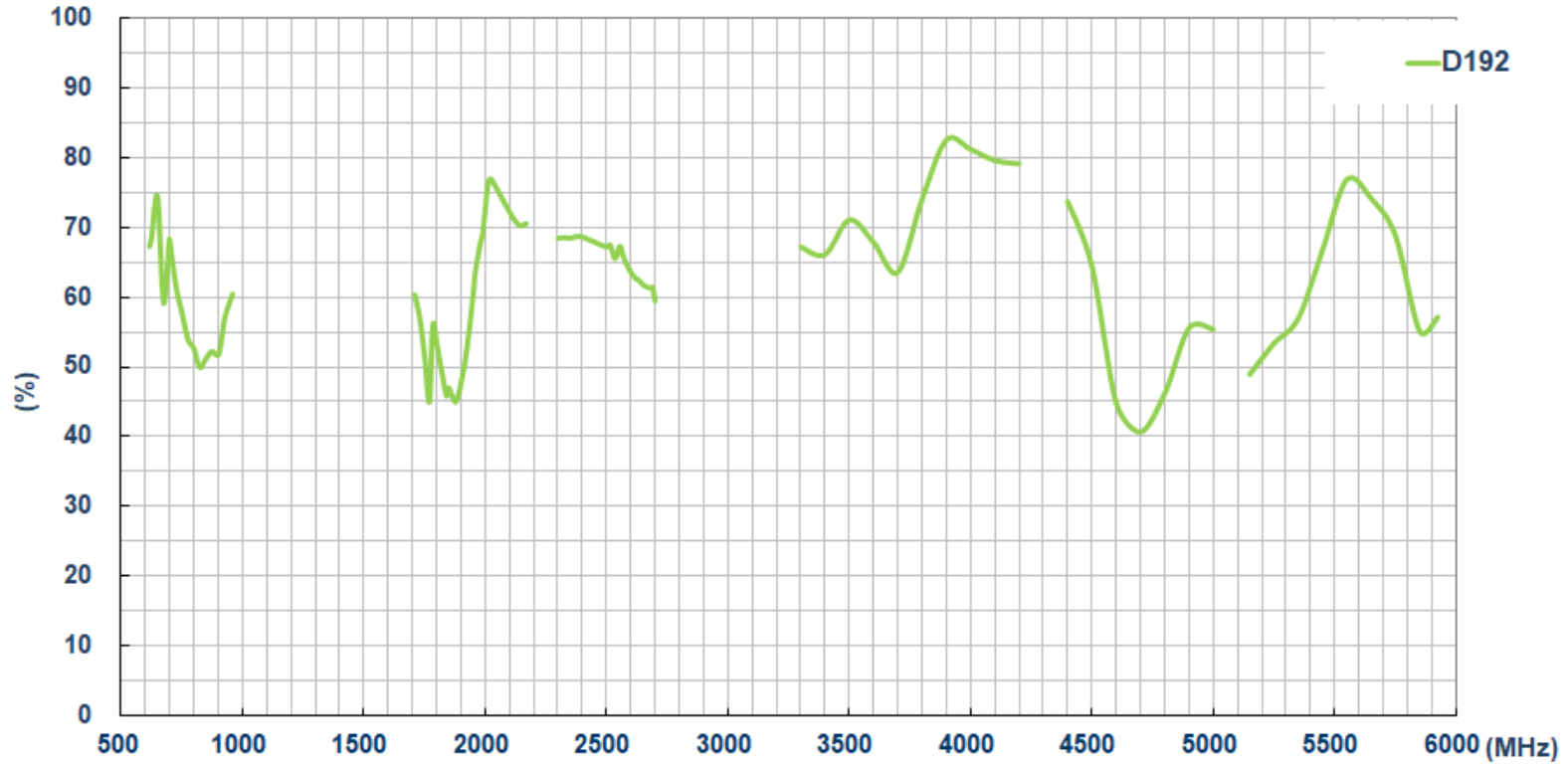


Test Setup

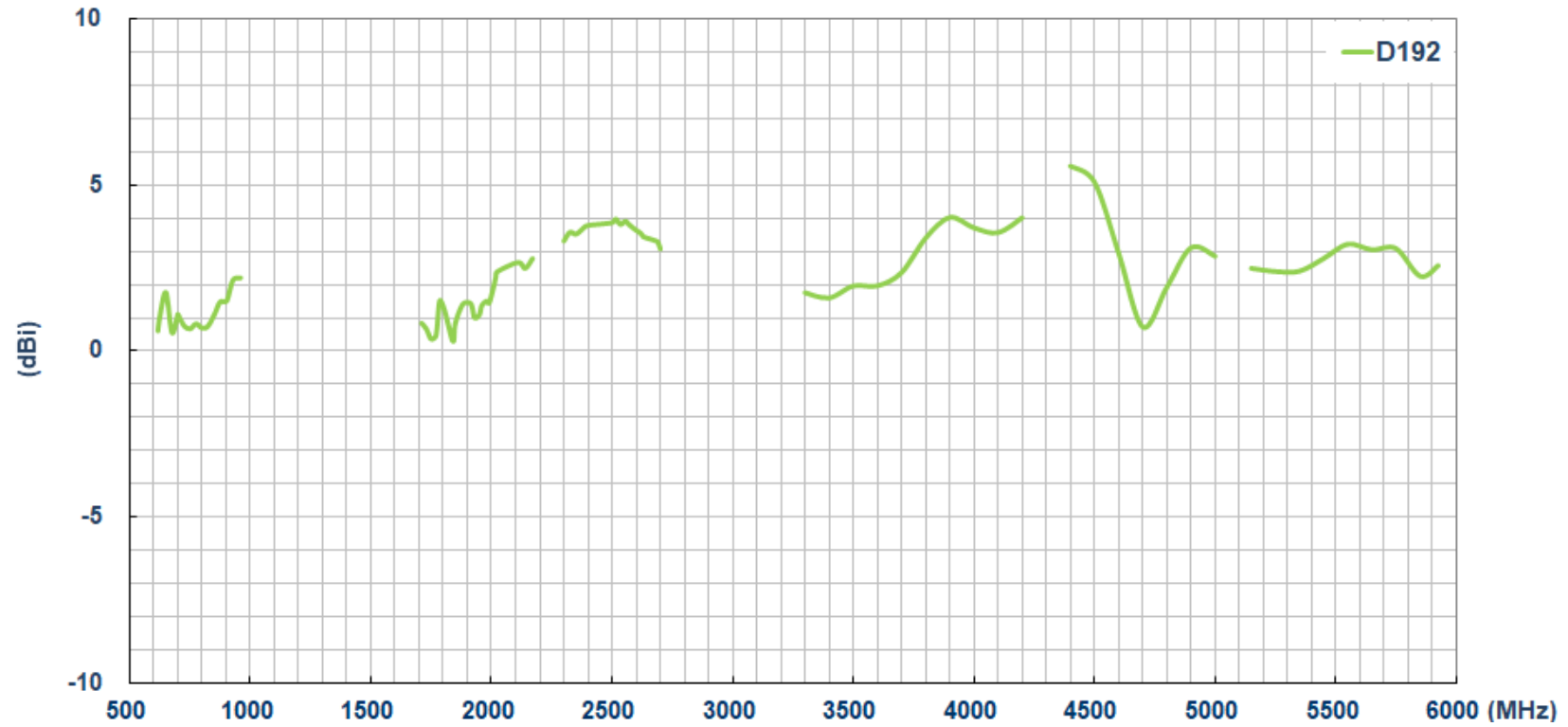
 **RUNSHUN**



Efficiency



Peak Gain

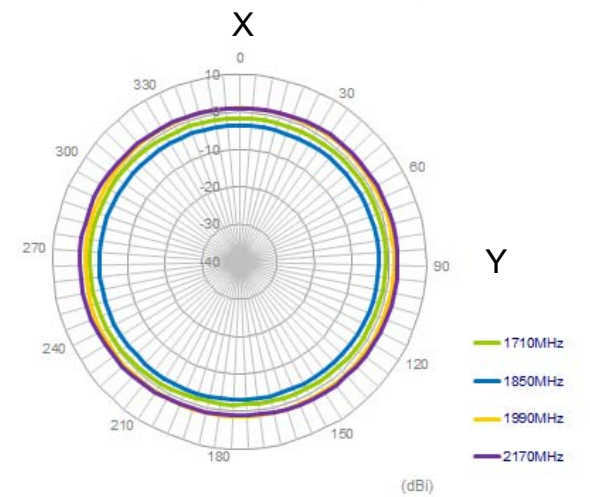
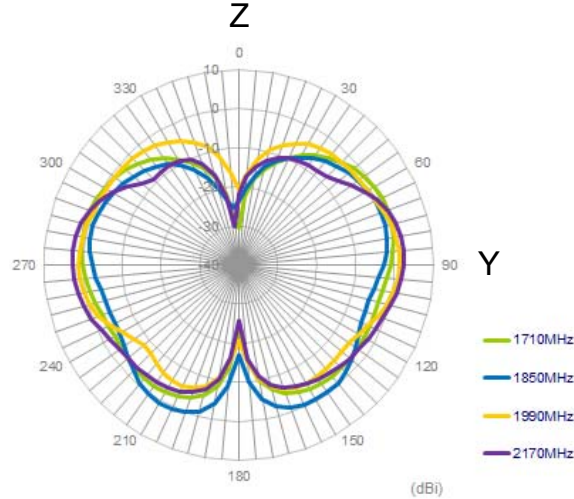
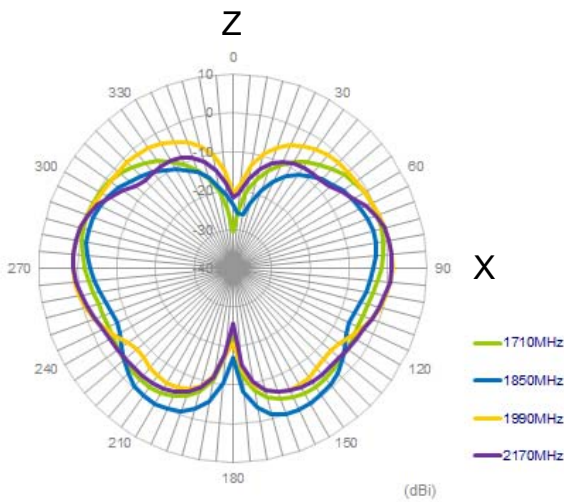
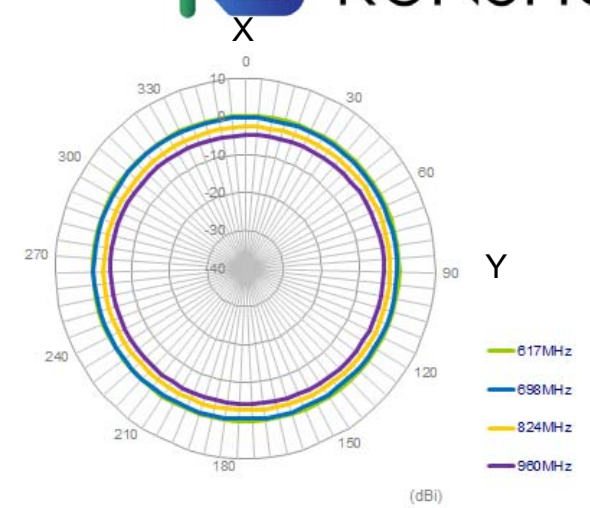
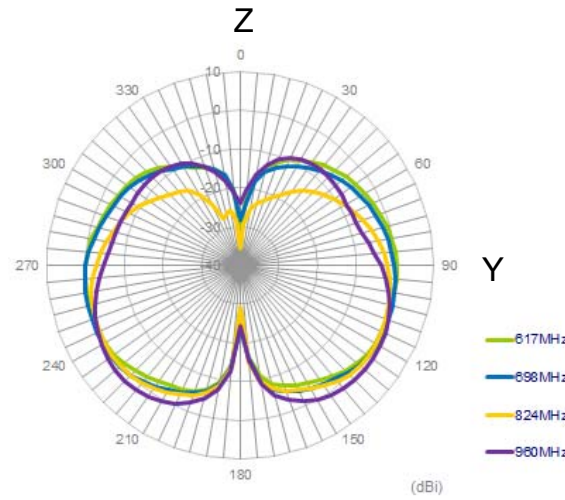
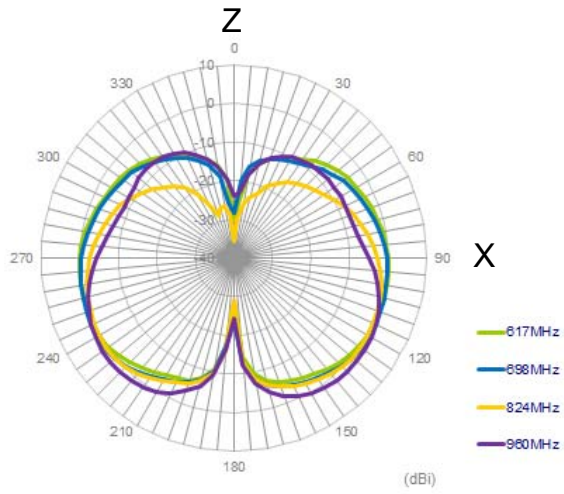


Gain Table

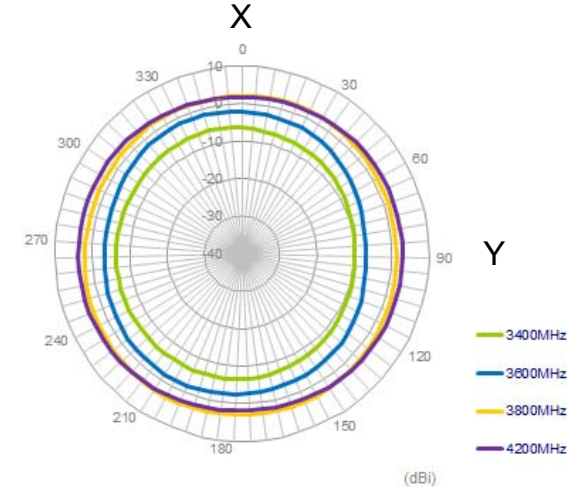
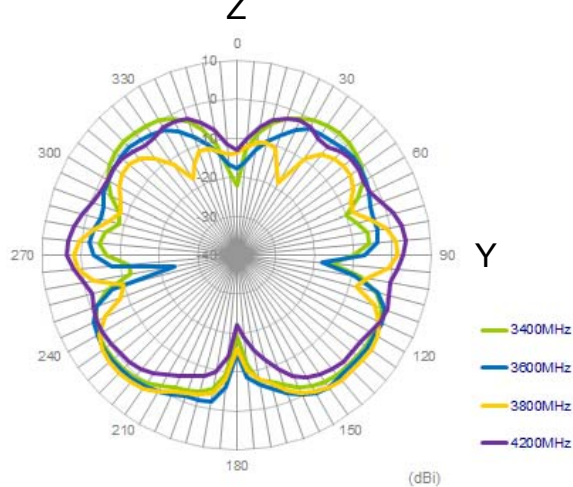
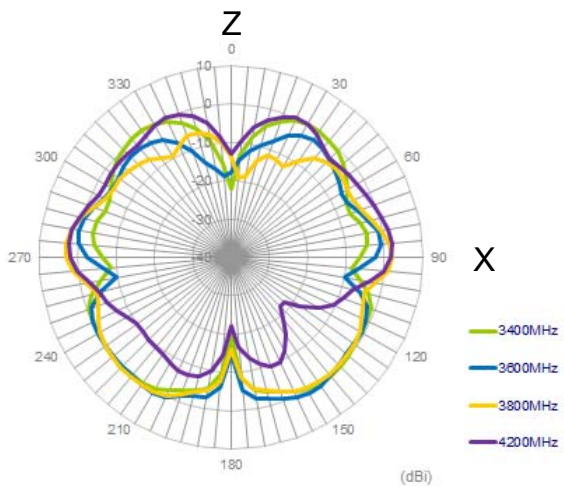
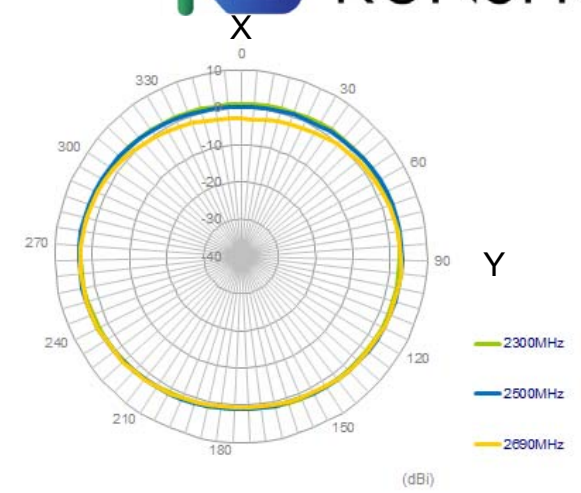
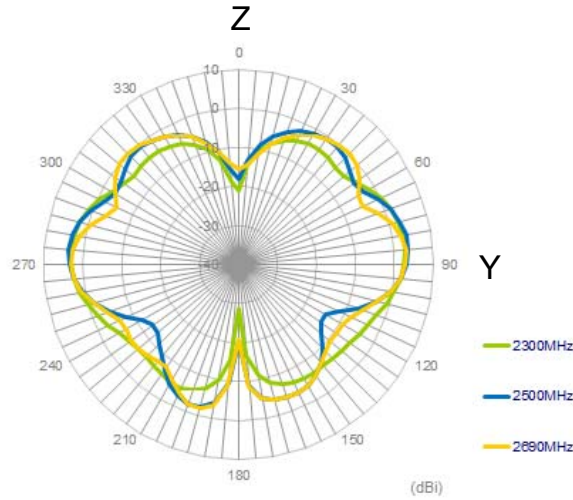
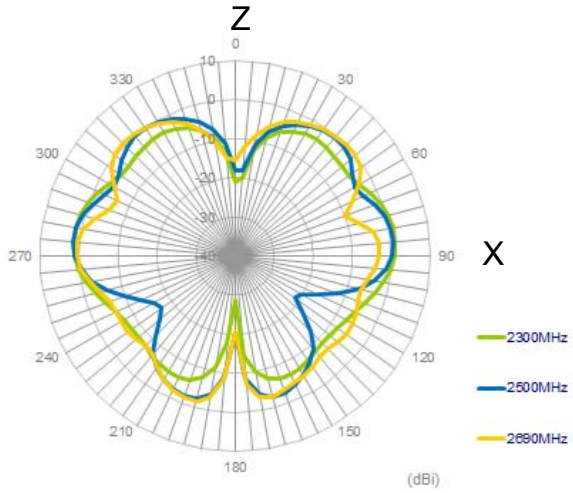


	617~960	1710~2170	2300~2700	3300~4200	4400~5000	5150~5850
	Efficiency					
D192	59.65	59.92	65.22	73.22	54.39	62.62
	Peak gain					
D192	2.20	2.78	3.97	4.02	5.57	3.22

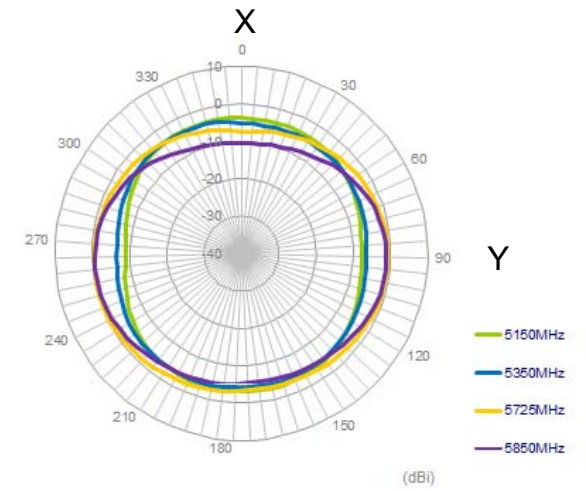
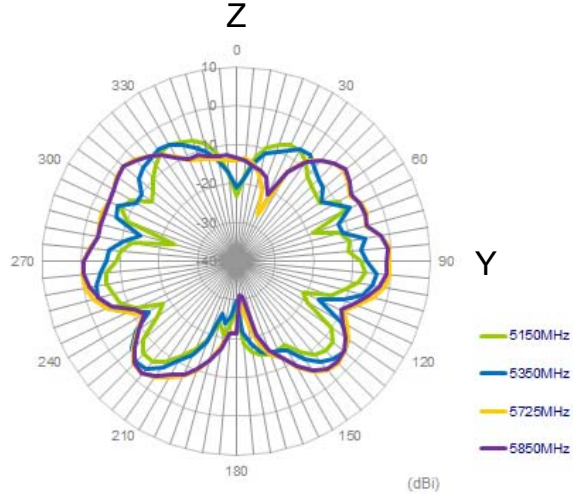
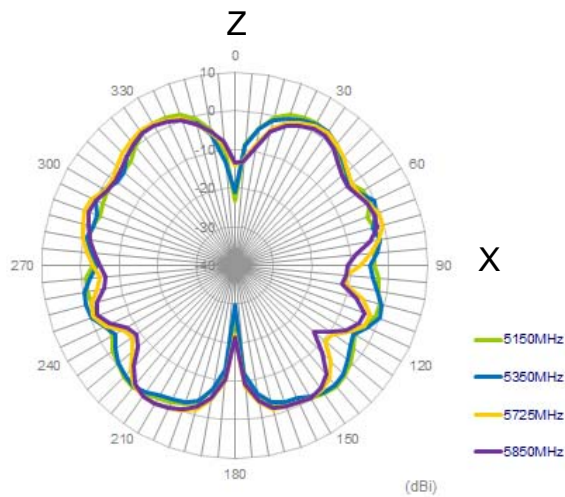
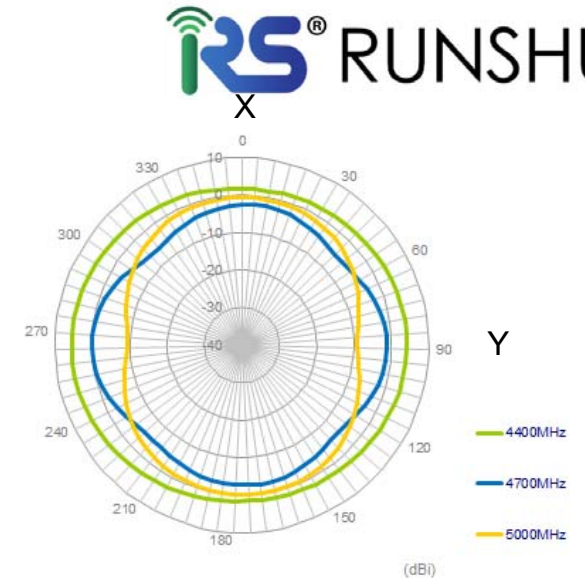
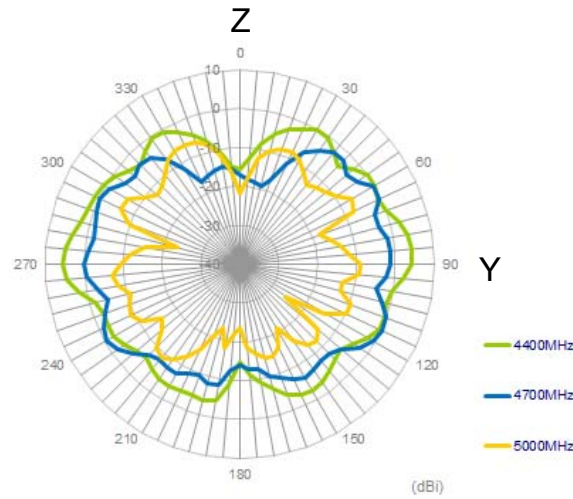
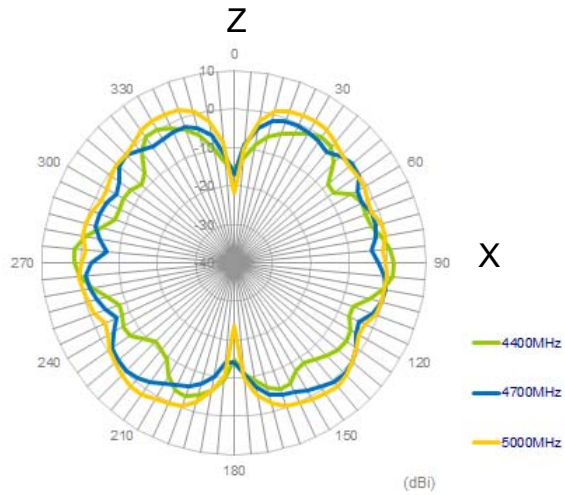
2D Radiation Pattern Results



2D Radiation Pattern Results



2D Radiation Pattern Results





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