RIDA ANTENNAER

APPROVAL SHEET

CUSTOMER NAME：	

PARTNO:

TYPE NAME： BT 4018 aerial

CUSTOM P/N：

SPECIFICATON： IPEX1.13Low loss black160mm/40*18.3㎜²

1. （Newly Approved） ■
2. （Material Approved） □
3. （SPEC Approved） □

（APPROVAL BY）：			（APPROVAL BY）：		
（APPROVAL DATE）：2025 年 月 日			（APPROVAL DATE）：2025 年 月 日		
（SUPPLIER）			(CUSTOMER)		
Q.Dept	E.Dept	S.Dept	TESTED	CHECKED	APPROVED
（DATE）：2025 年 月 日			(DATE)：2025 年 月 日		

电

Model	BT 4018
Frequency Range-MHz	2400MHz~2500MHz
MAX Gain-dB	3dB
VSWR	≤2.0
Input impedance-Ω	50Ω
Polarization	Vertical
Connector Type	IPEX
Length（mm）	160mm
Weight-g	2g
Installation	
Environmental	1.Working Temp -40℃~+85℃ 2.Humidity Humidity 95%~100%R

1. Structure Picture

2. Test equipment and darkroom

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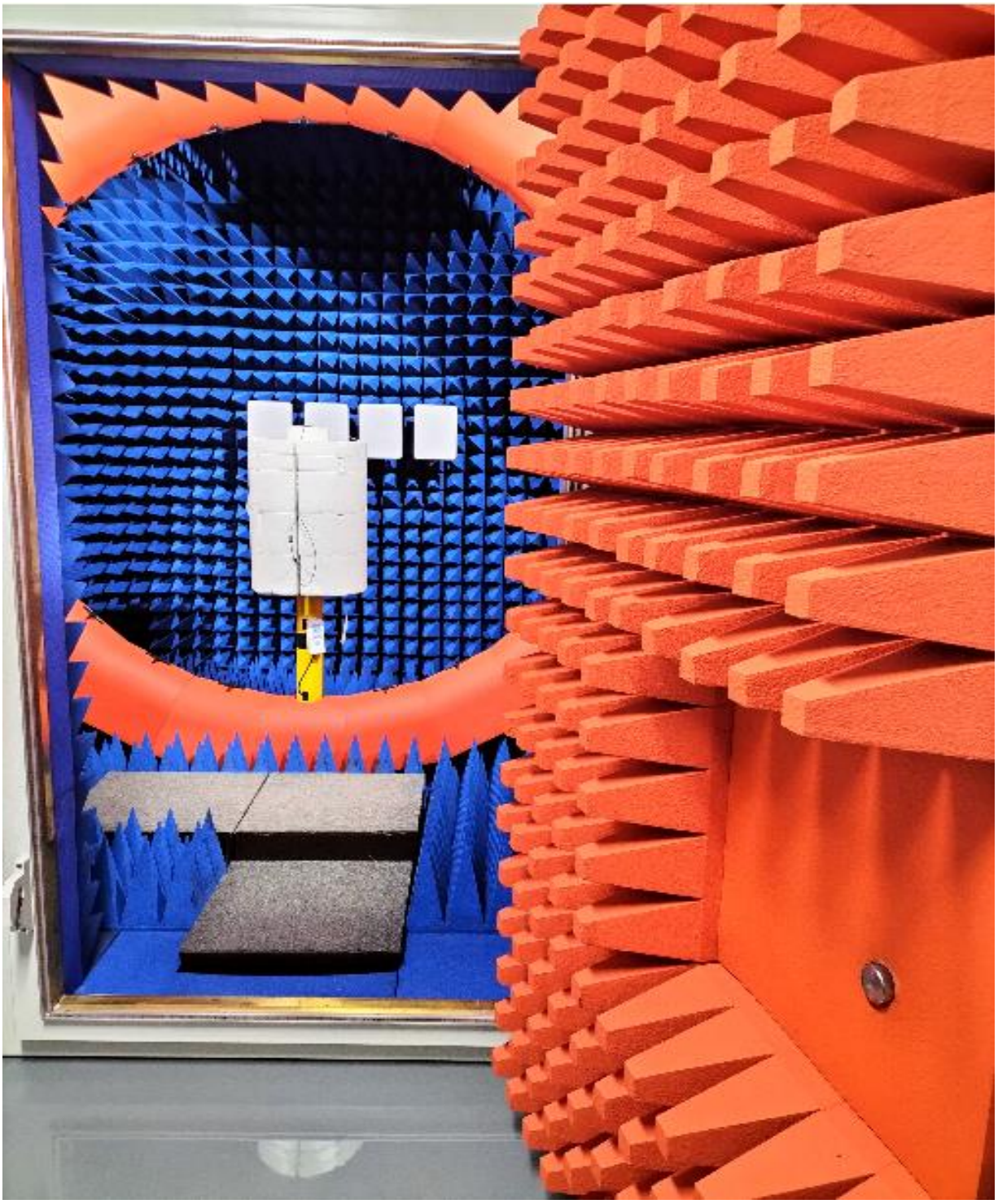
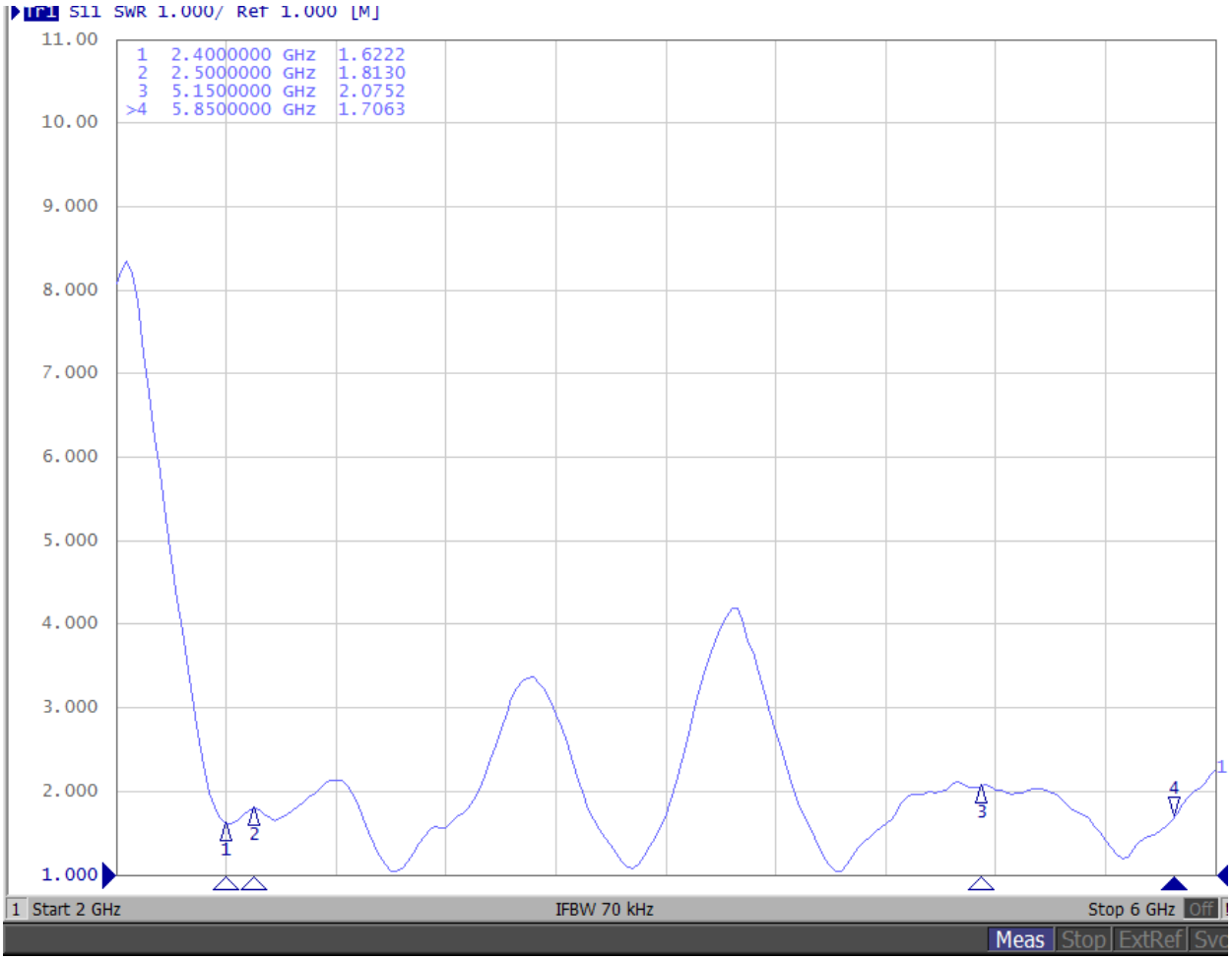


3. test data

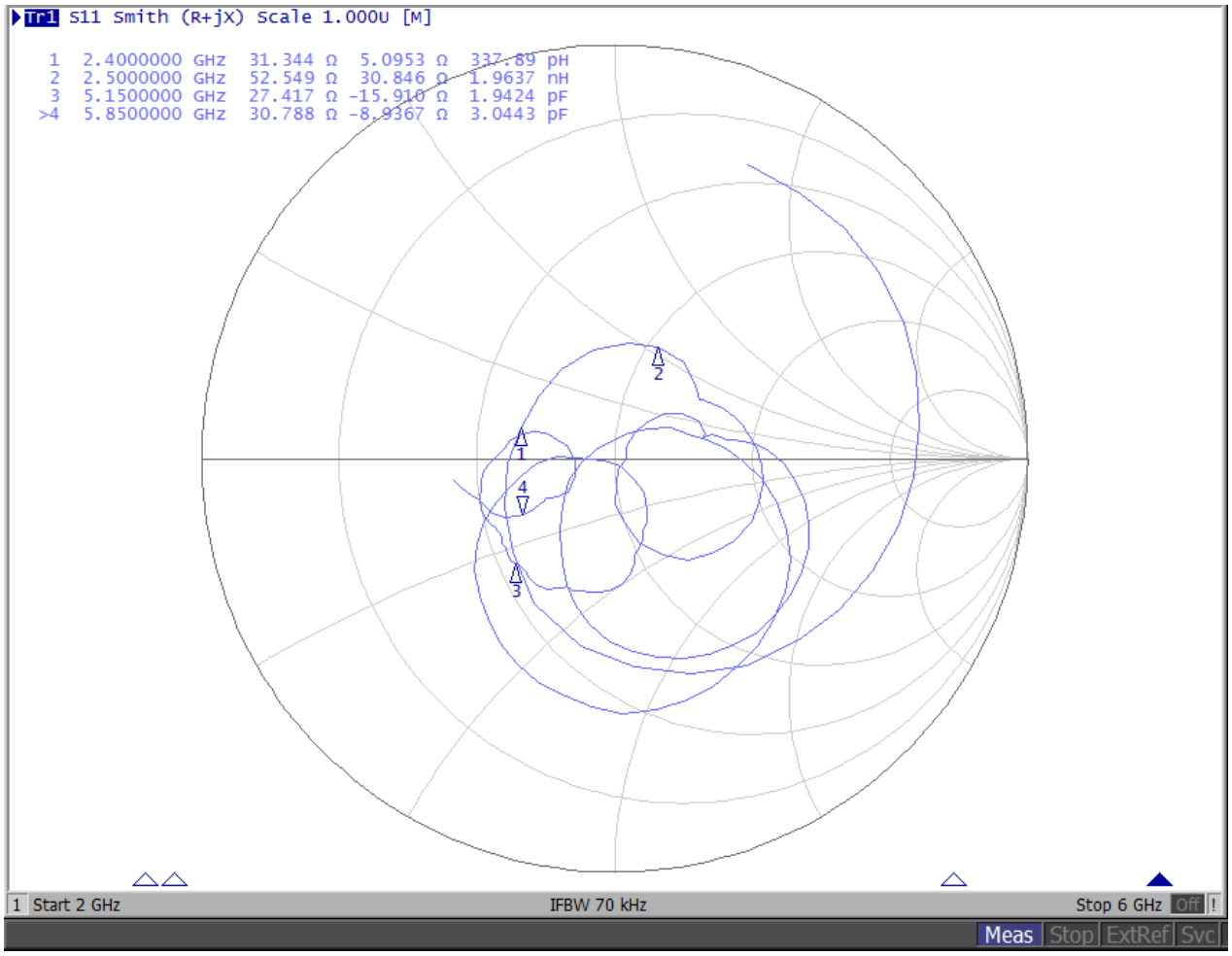
3-1 S11



VSWR

Frequency(MHz)	2400	2500
VSWR	1.6	1.8

3-2 S11Smith impedance

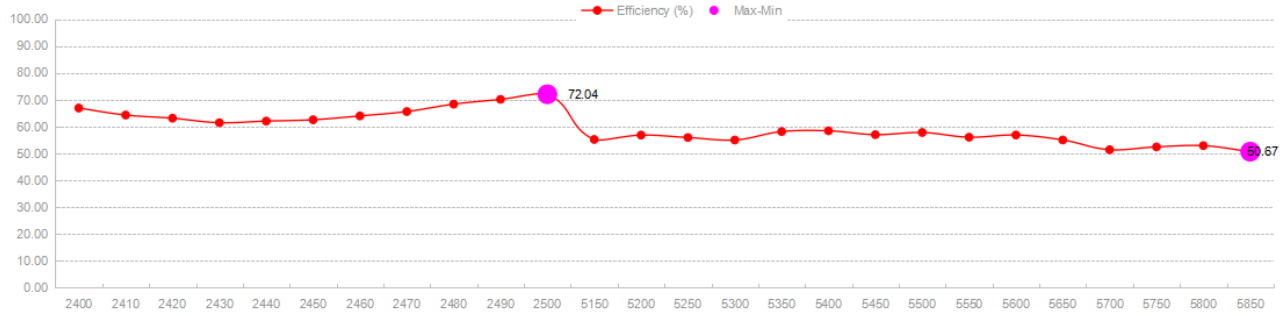


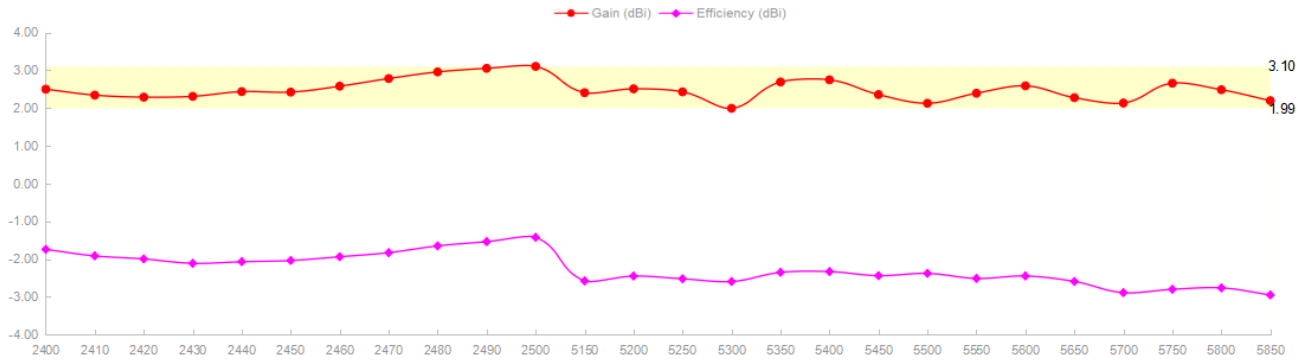
Smith(R+jx)

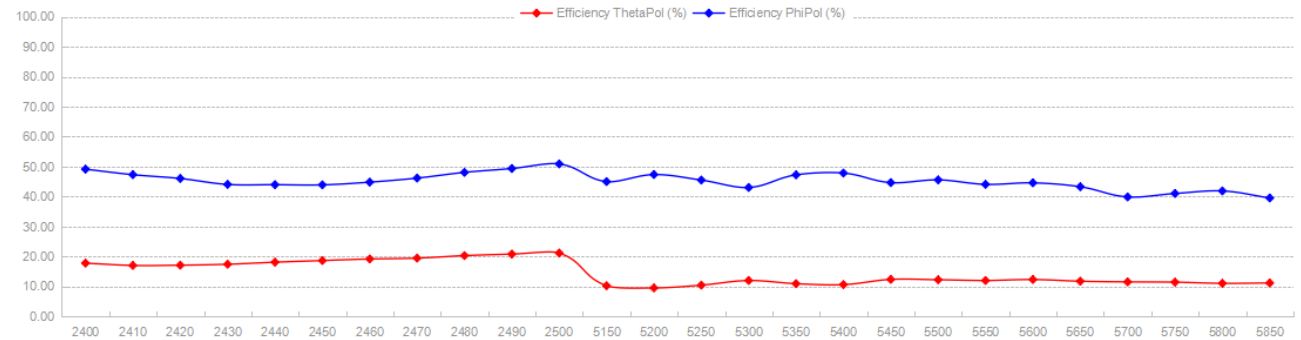
Frequency(MHz)	2400	2500
Smith(R+jx)	31 Ω	52 Ω

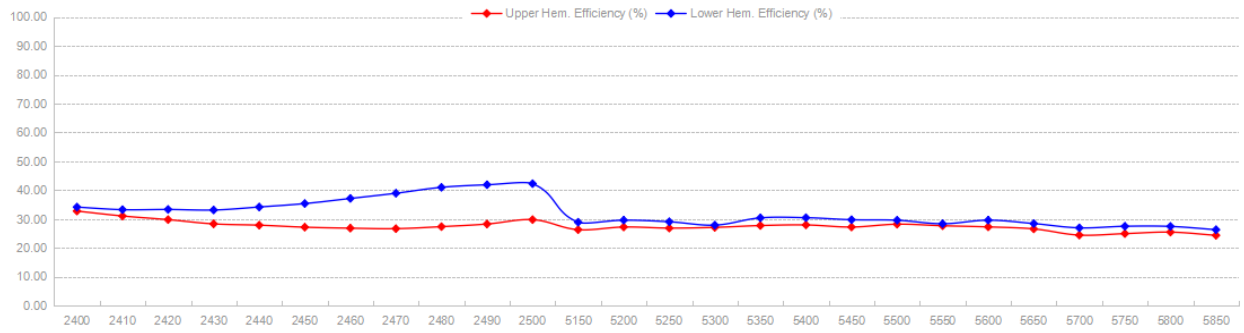
3-3 WIFI

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Efficiency (dBi)	-1.74	-1.92	-2.00	-2.11	-2.07	-2.04	-1.94	-1.83	-1.65	-1.54	-1.42
Gain (dBi)	2.50	2.34	2.29	2.31	2.44	2.42	2.58	2.78	2.96	3.05	3.10
Efficiency (%)	66.92	64.31	63.13	61.46	62.06	62.55	63.98	65.61	68.36	70.15	72.04
Directivity (dB)	4.24	4.26	4.29	4.42	4.51	4.46	4.52	4.61	4.61	4.59	4.53
Peak Gain Position (Theta)	135.00	135.00	135.00	150.00	150.00	150.00	135.00	135.00	135.00	135.00	135.00
Peak Gain Position (Phi)	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00
Efficiency ThetaPol (%)	17.78	17.02	17.10	17.41	18.10	18.65	19.17	19.45	20.29	20.80	21.16
Efficiency PhiPol (%)	49.13	47.29	46.03	44.05	43.96	43.90	44.80	46.15	48.06	49.35	50.88
Upper Hem. Efficiency (%)	32.77	31.06	29.80	28.32	27.88	27.18	26.84	26.67	27.37	28.28	29.79
Lower Hem. Efficiency (%)	34.14	33.25	33.33	33.13	34.18	35.36	37.13	38.93	40.99	41.87	42.25



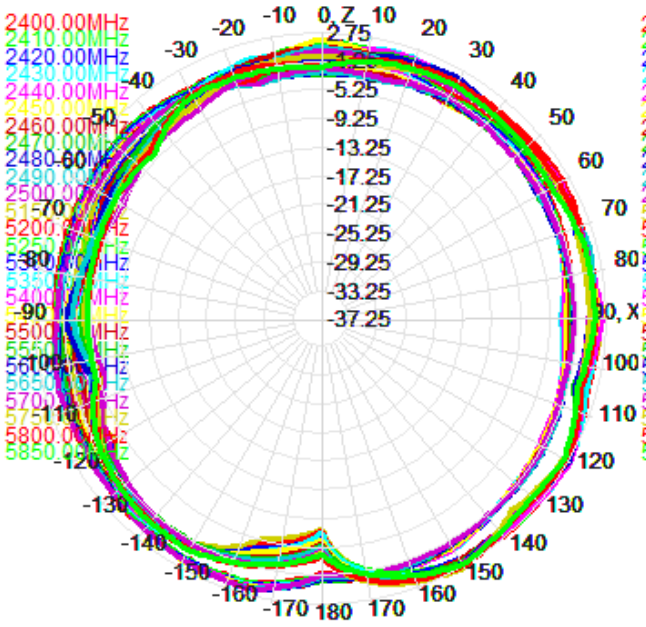




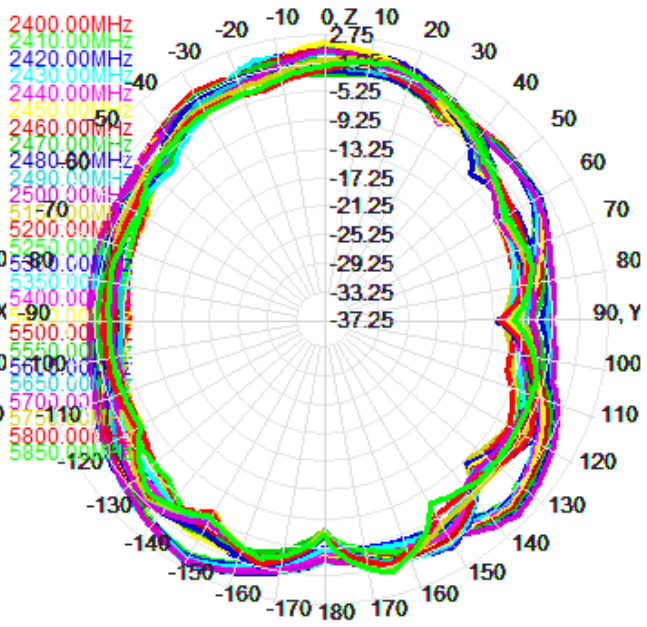


3-3 2D Pattern

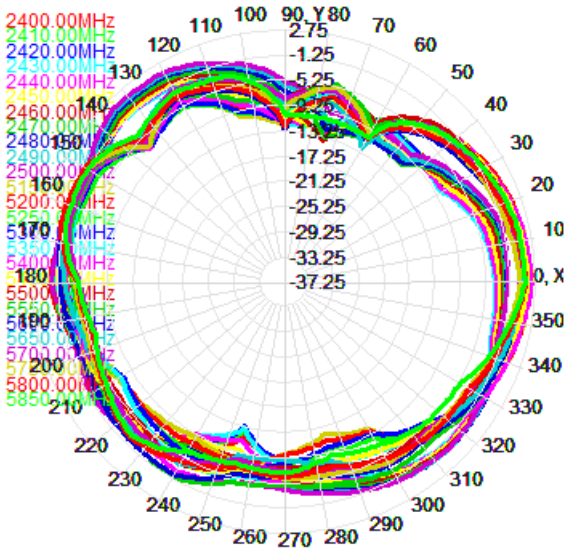
E1



E2



H


2400.00MHz
2410.00MHz
2420.00MHz
2430.00MHz
2440.00MHz
2450.00MHz
2460.00MHz
2470.00MHz
2480.00MHz
2490.00MHz
2500.00MHz
5200.00MHz
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90 Y
2.75
-1.25
-5.25
-9.25
-13.25
-17.25
-21.25
-25.25
-29.25
-33.25
-37.25
0, X