

規格承認書

Approval Sheet

客戶名稱

Customer Name: 亞旭 / ASKEY

產品名稱

Product Name: PIFA TO IPEX 120

產品型號

Model Name: STI6200-D101

泓博料號

Hong Bo P/N: 290-40488

客戶料號

Customer P/N: 1415-01R1E00

版別 日期
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1. Specification

1. Electrical Properties

- 1.1 Frequency Range----- 2.4GHz~2.5GHz
5.15 GHz~5.85GHz
- 1.2 Impedance----- 50Ω
- 1.3 VSWR----- 2:1
- 1.4 Return Loss----- -10dB or Less
- 1.5 Peak Gain ----- 5.29dBi@DB1
4.50 dBi@DB2
- 1.6 Admitted Power----- 1W
- 1.7 Cable----- $\varnothing 1.13$ Normal
- 1.8 Antenna type----- PIFA

2 Free Space

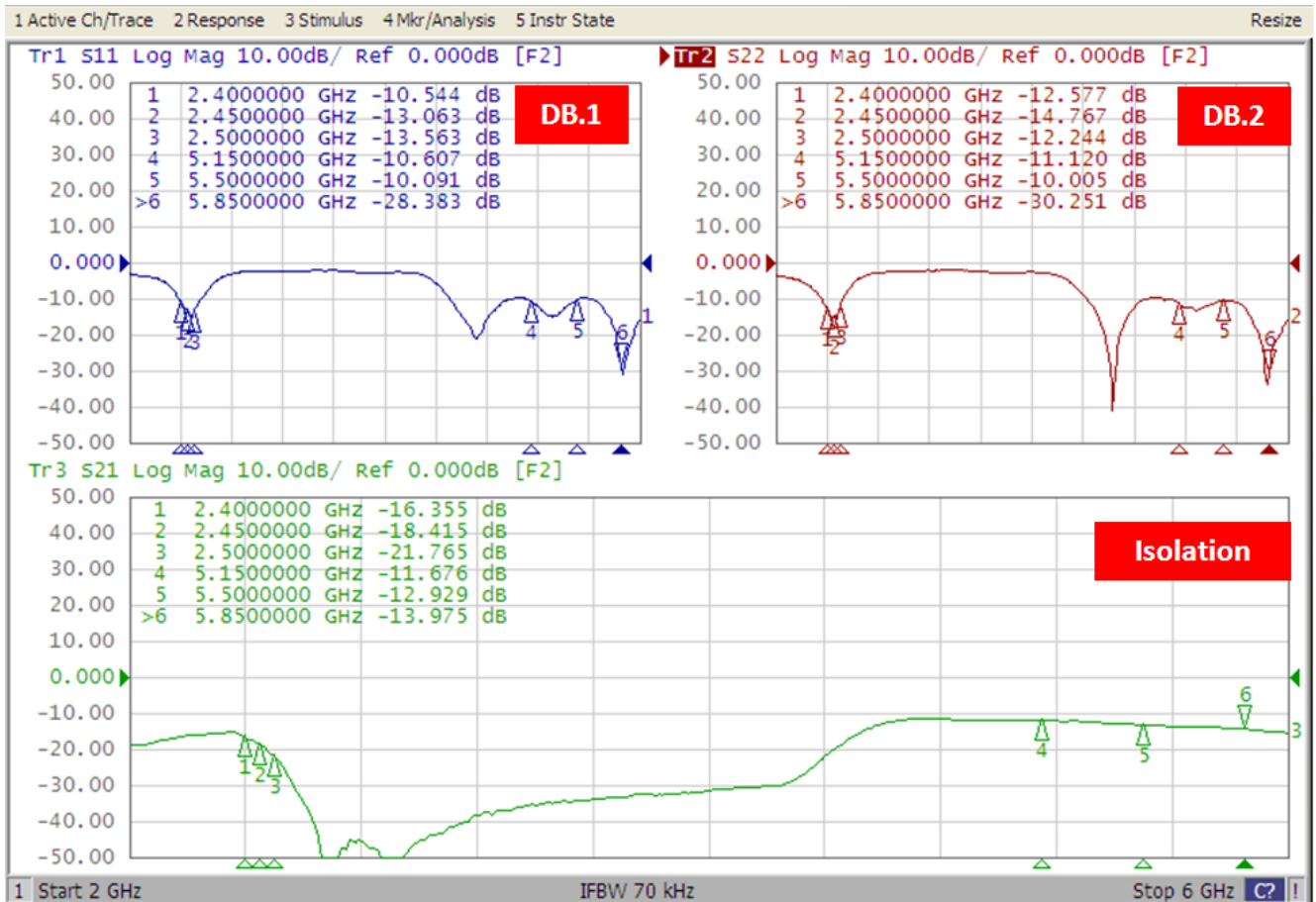
- 2.1 VSWR----- DB-1 灰线 2.4-2.6GHz<2.5
4.65-6.0GHz<2.5
DB-2 红线 2.36-2.55GHz<2.5
4.3-6.0GHz<2.5

3. Physical Properties

- 3.1 Antenna Body----- SUS430
- 3.2 Operating Temp----- $-10^{\circ}\text{C}\sim+60^{\circ}\text{C}$
- 3.3 Storage Temp----- $-10^{\circ}\text{C}\sim+70^{\circ}\text{C}$

2. Test Data

2.1 Return Loss



2.2 Free Space_VSWR

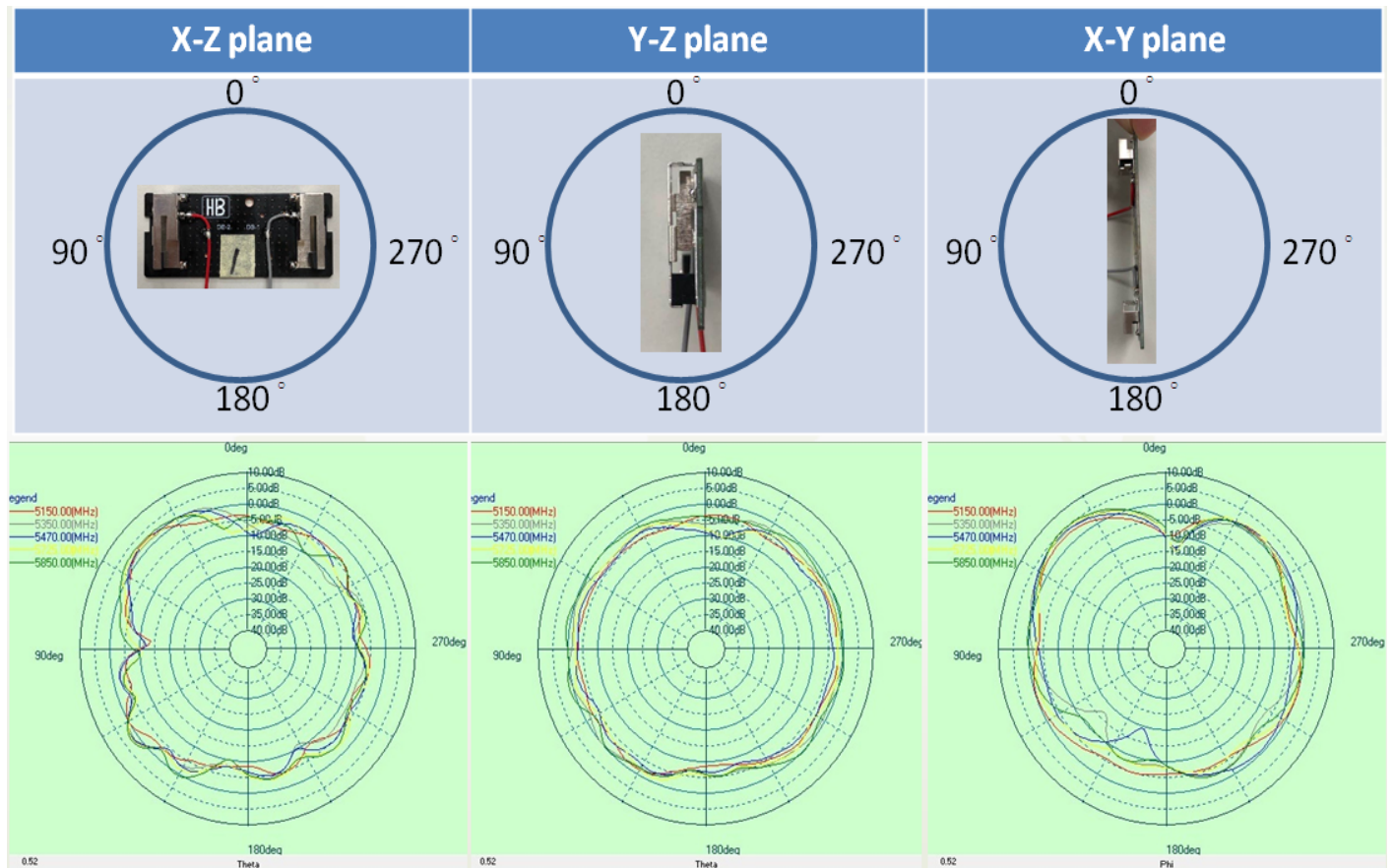
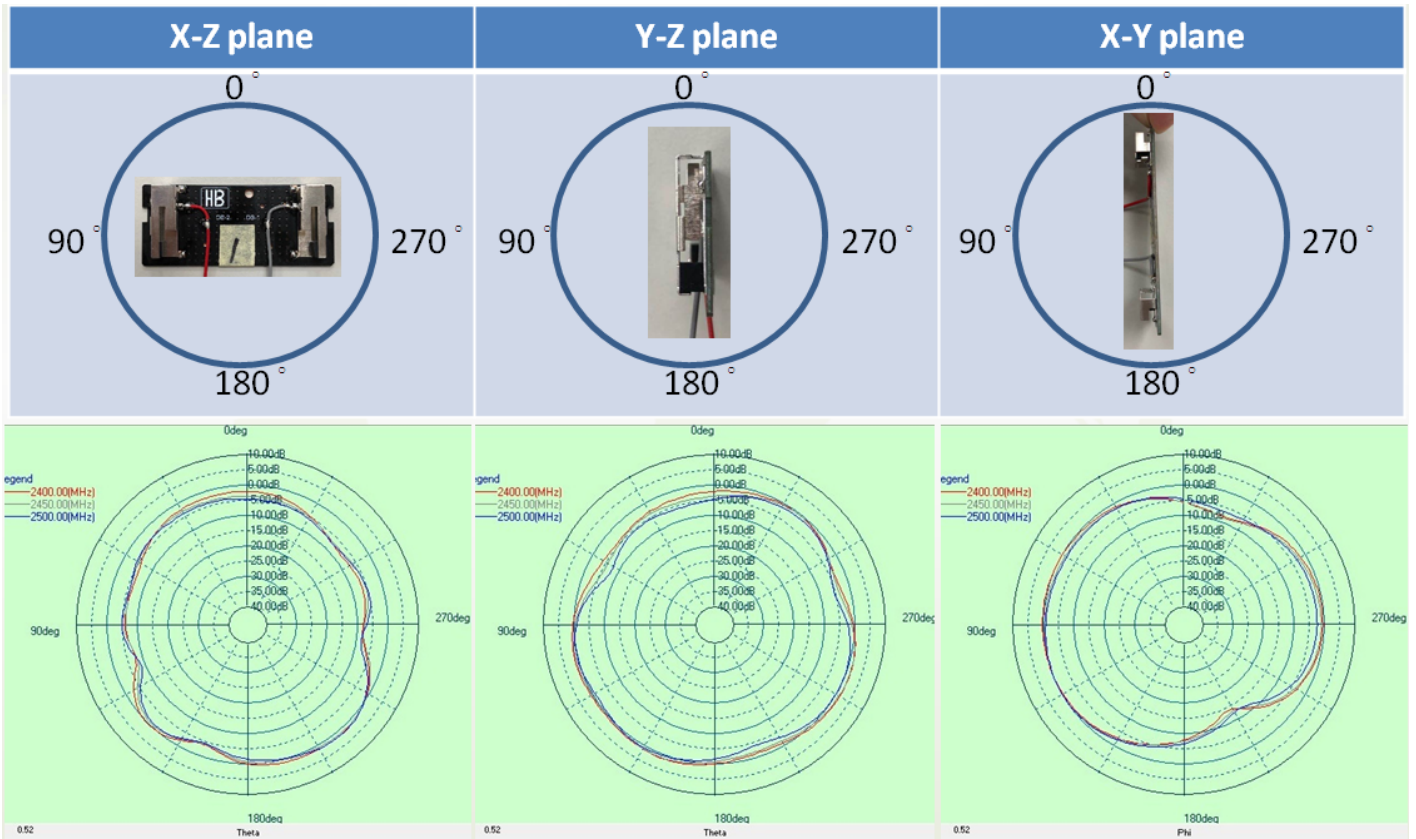


DB1

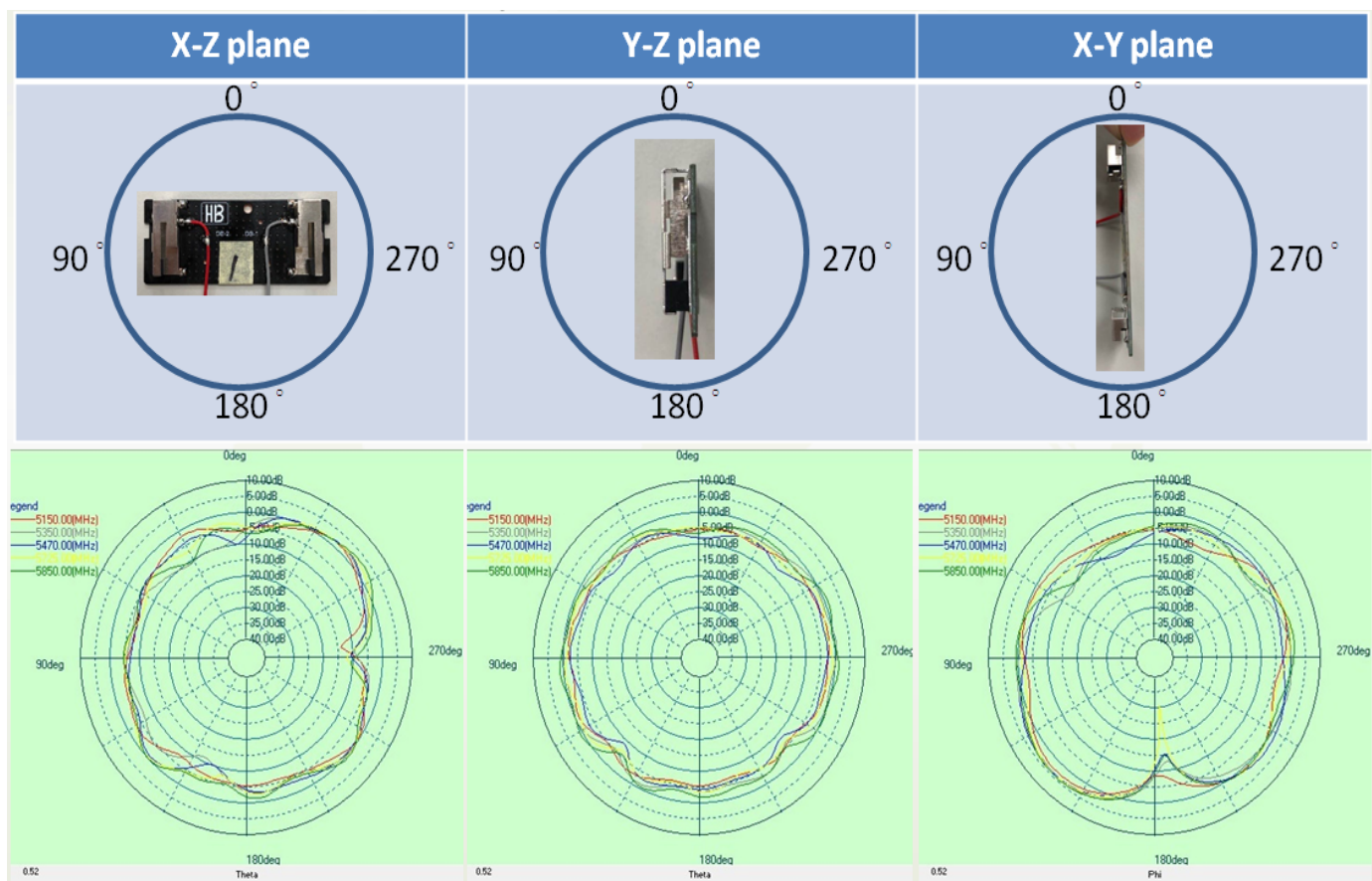
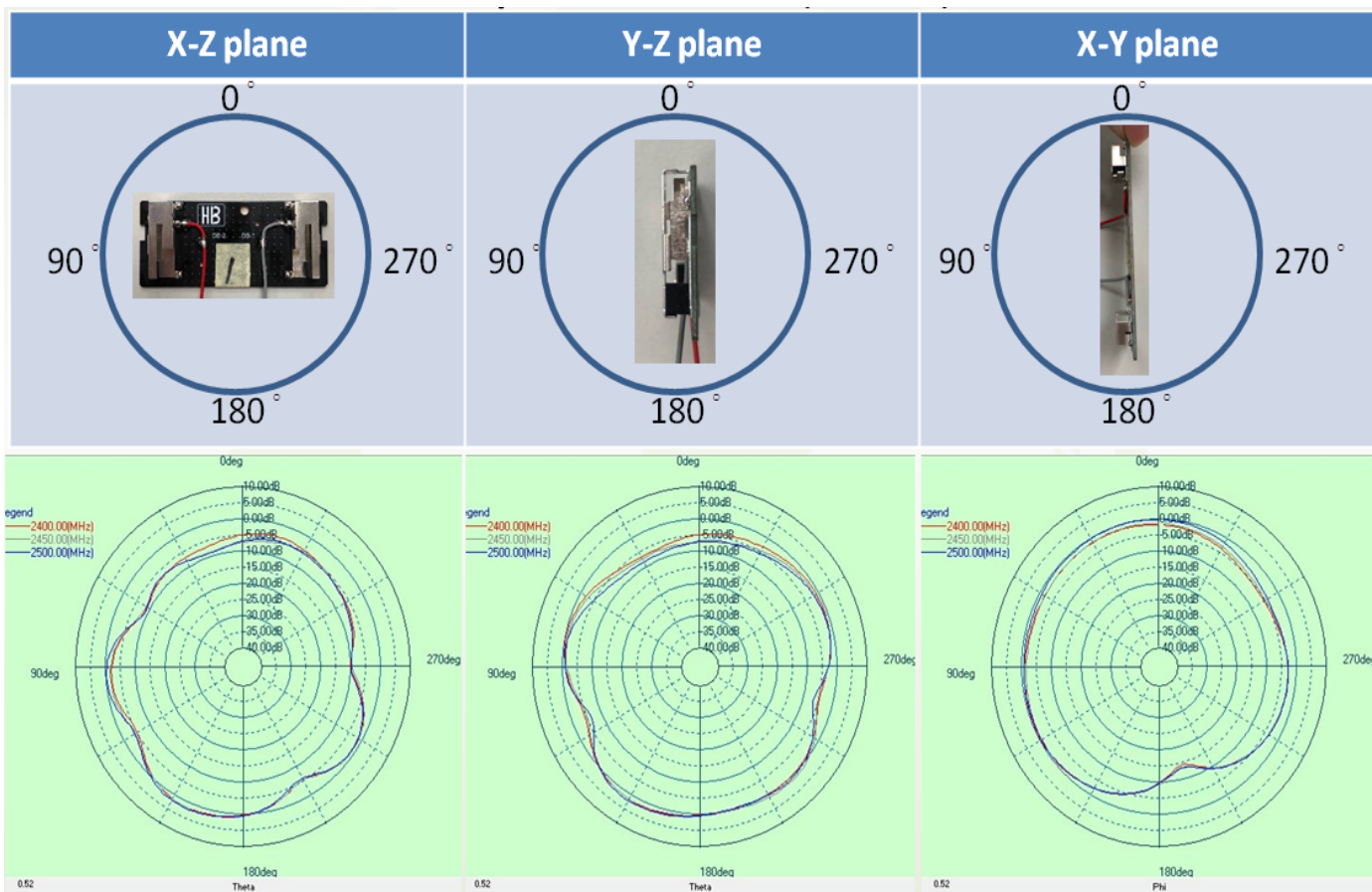


DB2

2.3 Radiation pattern

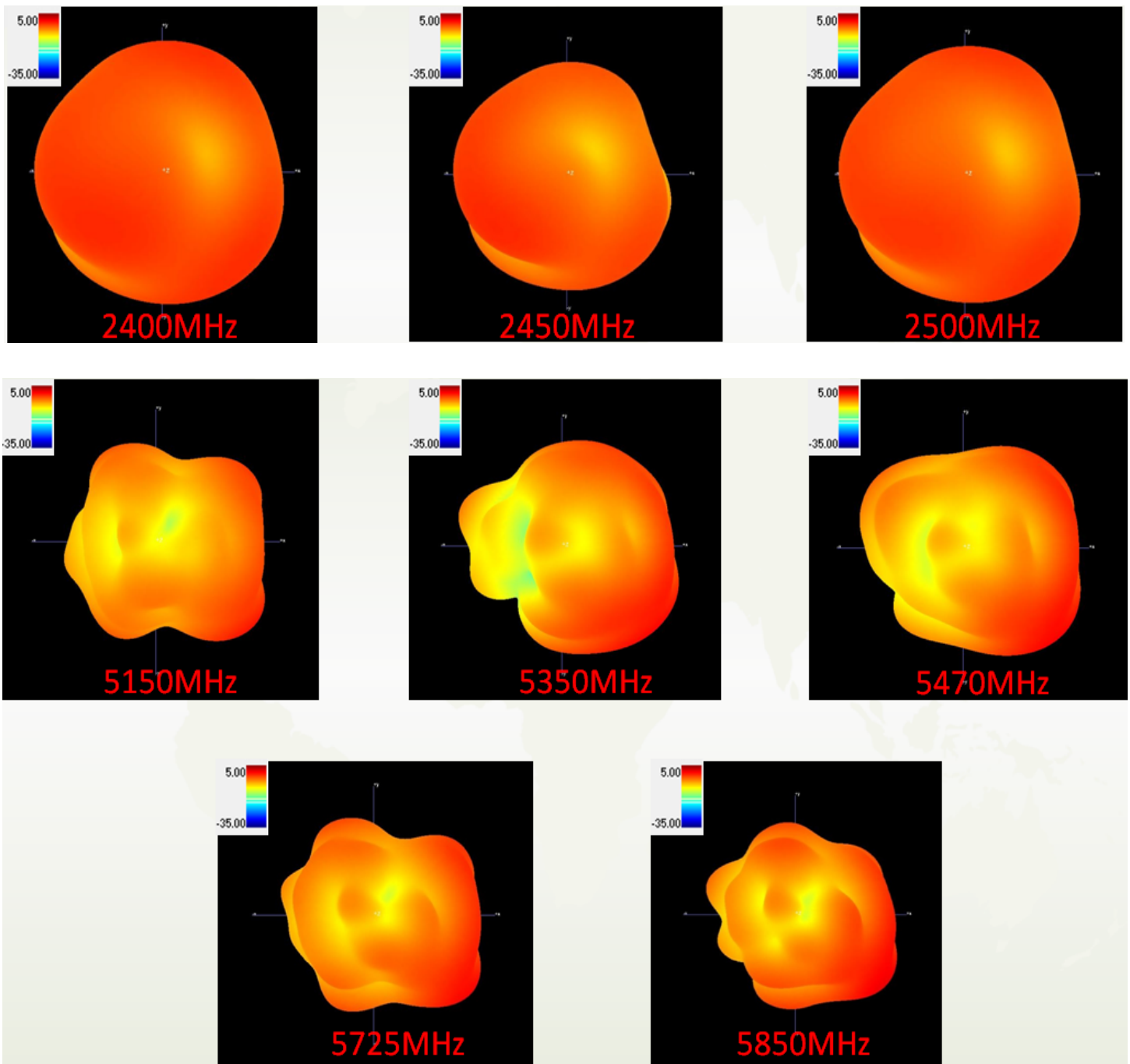


DB1

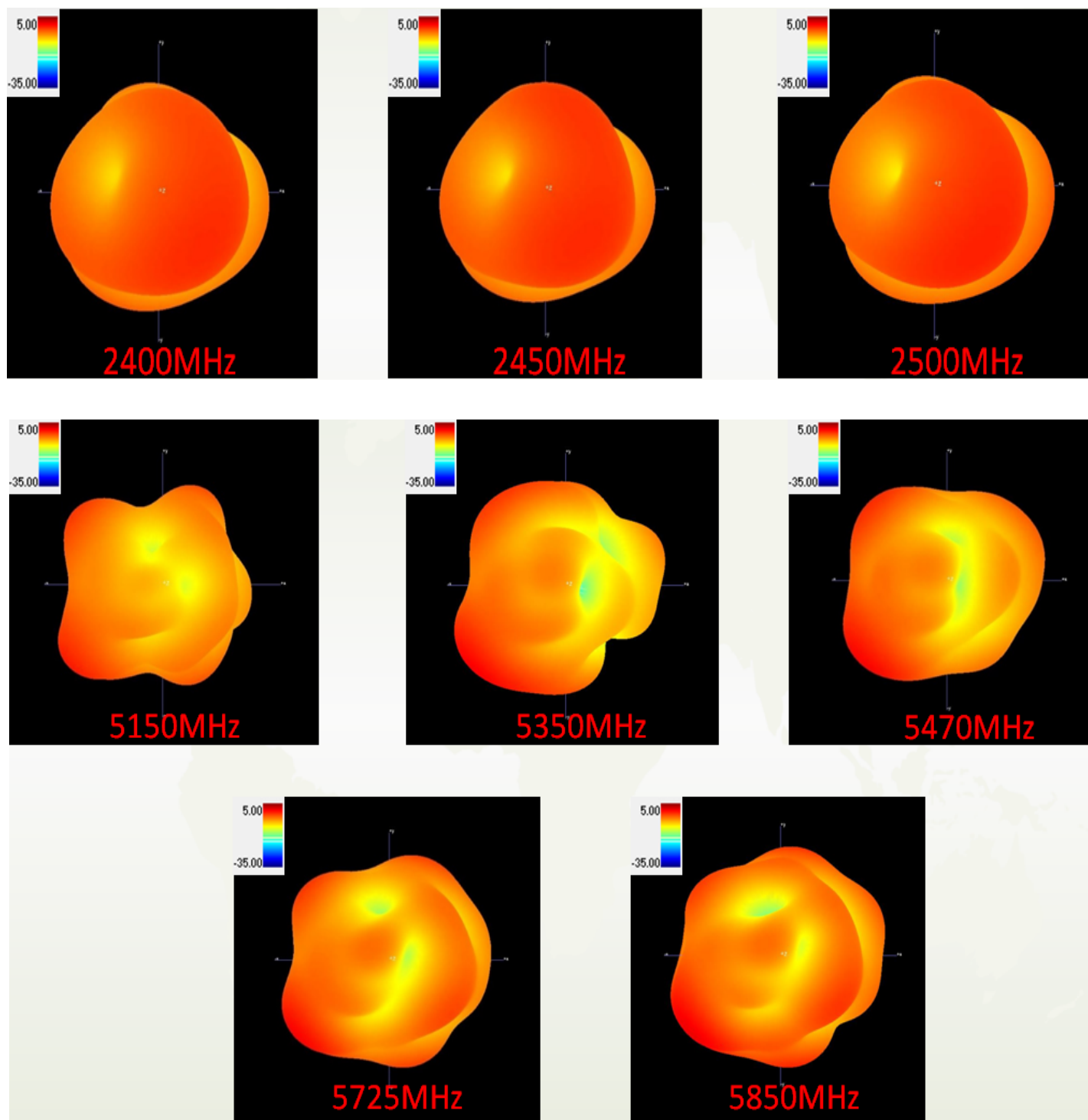


DB2

2.4 Antenna radiation pattern 3D



DB1



DB2

2.5 XZ/YZ/XY Gain Table

Frequency (MHz)	XZ plane		YZ plane		XY plane	
	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)
2400	1.37	-3.09	1.50	-0.80	0.30	-2.98
2450	0.98	-3.48	1.37	-1.36	-0.05	-3.35
2500	1.51	-3.71	0.61	-2.33	-0.05	-3.55
5150	2.53	-4.50	-1.65	-4.01	2.98	-2.09
5350	1.49	-4.69	0.31	-2.43	3.89	-2.33
5470	2.03	-4.16	-2.24	-4.57	4.23	-2.14
5725	2.21	-3.88	-1.18	-3.46	4.63	-2.18
5850	2.92	-3.45	1.16	-1.63	4.97	-1.95

DB1

Frequency (MHz)	XZ plane		YZ plane		XY plane	
	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)
2400	1.51	-3.80	1.48	-1.95	-0.35	-3.33
2450	1.61	-3.86	1.64	-2.20	-0.74	-3.28
2500	1.92	-3.80	2.00	-2.57	-0.30	-2.64
5150	1.40	-4.13	-1.40	-3.99	2.74	-2.10
5350	1.77	-4.38	0.53	-2.38	3.76	-1.98
5470	2.05	-3.66	-2.36	-4.76	3.99	-1.89
5725	2.15	-3.40	-0.53	-3.47	4.04	-1.84
5850	3.14	-3.15	1.45	-1.77	4.30	-1.42

DB2

2.6 Efficiency & E-total(Peak Gain)

Frequency (MHZ)	Efficiency (%)	E-total (dBi)	Frequency (MHZ)	Efficiency (%)	E-total (dBi)
2400	67.27	2.09	5150	61.73	3.58
2410	68.19	2.10	5350	66.54	4.28
2420	66.25	1.99	5470	69.29	4.44
2430	65.96	1.94	5725	67.73	4.88
2440	68.35	2.32	5850	76.20	5.29
2450	62.05	1.78			
2460	55.75	1.42			
2470	53.71	1.48			
2480	54.21	1.88			
2490	57.57	2.34			
2500	54.59	2.19			

DB1

Frequency (MHZ)	Efficiency (%)	E-total (dBi)	Frequency (MHZ)	Efficiency (%)	E-total (dBi)
2400	62.31	2.06	5150	63.85	3.39
2410	64.64	2.42	5350	64.54	4.23
2420	64.77	2.39	5470	67.40	4.50
2430	66.33	2.20	5725	66.46	4.17
2440	68.08	2.22	5850	74.13	4.50
2450	62.17	2.07			
2460	57.55	1.96			
2470	56.18	1.95			
2480	57.70	2.27			
2490	62.48	2.74			
2500	60.89	2.49			

DB2

3. Product Drawing

