

东莞市淼泰电子有限公司
Dongguan MiaoTEC Electronics Co.,Ltd.

承认书
Specification For Approval

品名 (DESCRIPTION):	RF Antenna ASSEMBLY 1.13 Cable 黑色 L50mm + 2.4/5.8G FPC+IPEX PLUG
客户料号 (PART NO):	CP0850
料 号 (PART NO):	500101-00110-016R
送样日期 (DATE):	2025. 02. 19
版本 Revision:	A1
承认号码 (APPROVED NO):	MT. 承-250219-002

CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

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Spec Item

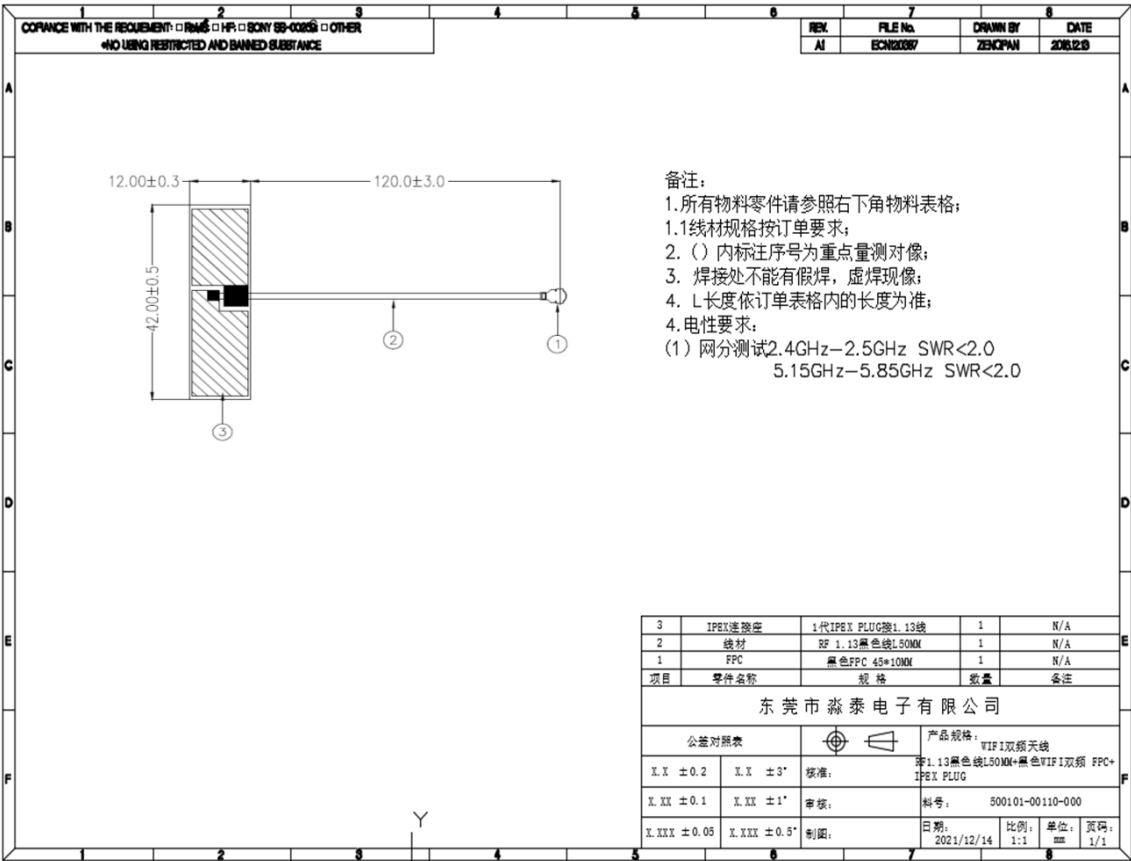
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电气参数 Electrical Specifications		
频率范围 Frequency range (MHz)	2.4-2.5GHz	5.15-5.85GHz
带宽 Bandwidth (MHz)	100MHz	700MHz
增益 Gain (dBi)	4.54dBi	3.13dBi
半功率波瓣宽度 Half-power beam width(°)	H:360 V:14	
电压驻波比 VSWR	≤3.5	
输入阻抗 Input Impedance(Ω)	50	
极化方式 Polarization	垂直Vertical	
最大功率 Maximum input power (W)	50	
雷电保护 Lightning protection	直流接地 DC Ground	
接头型号 Input connector type	1代IPEX PLUG	
机械参数 Mechanical Specifications		
天线尺寸 Dimensions (mm)	见工程图	
天线重量 Antenna weight (kg)	2g	
工作温度 Operating temperature (℃)	~40-55	

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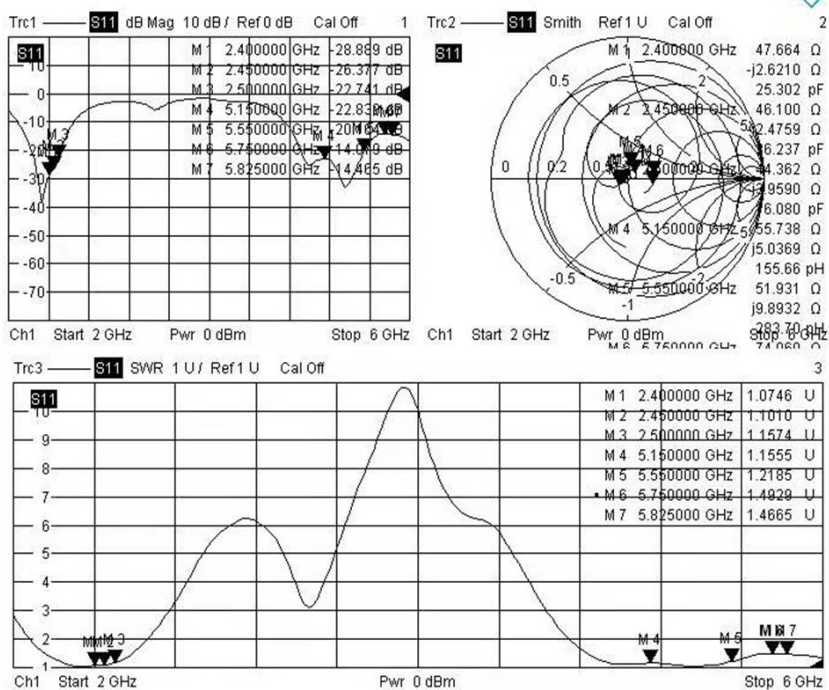
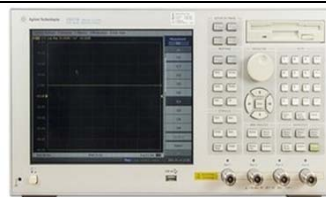
产品图纸
Product drawing

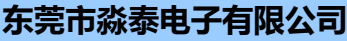


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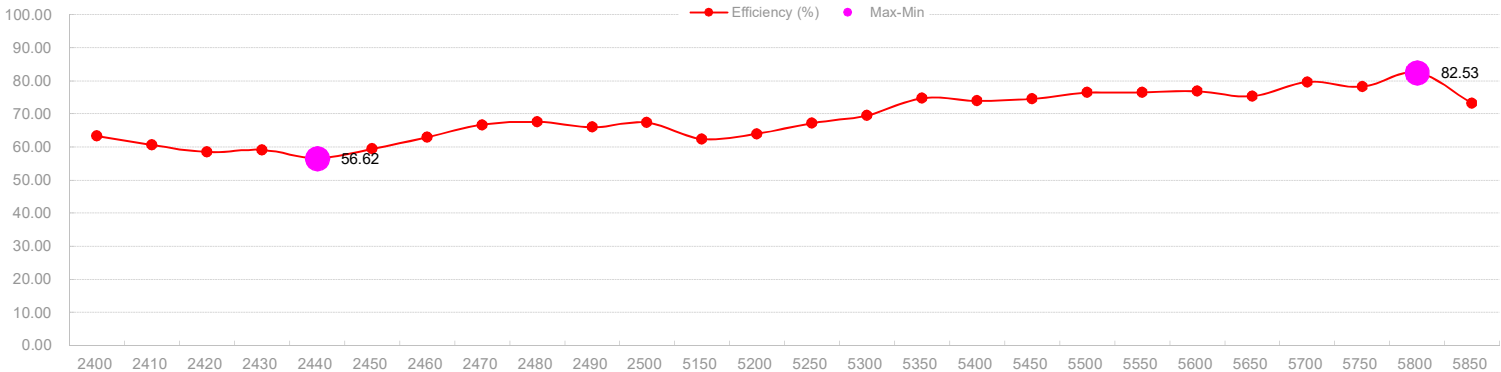
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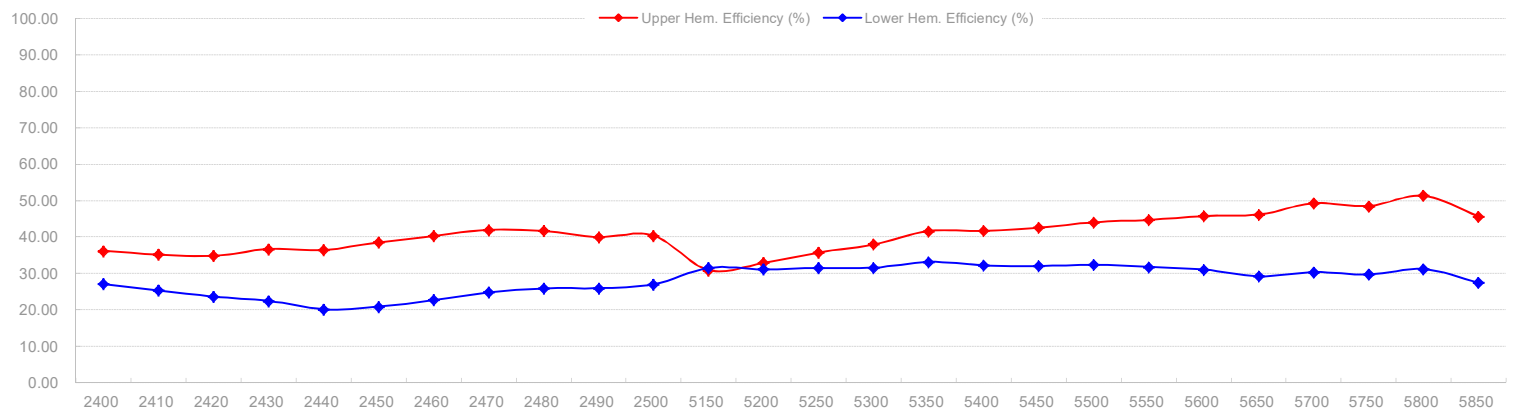
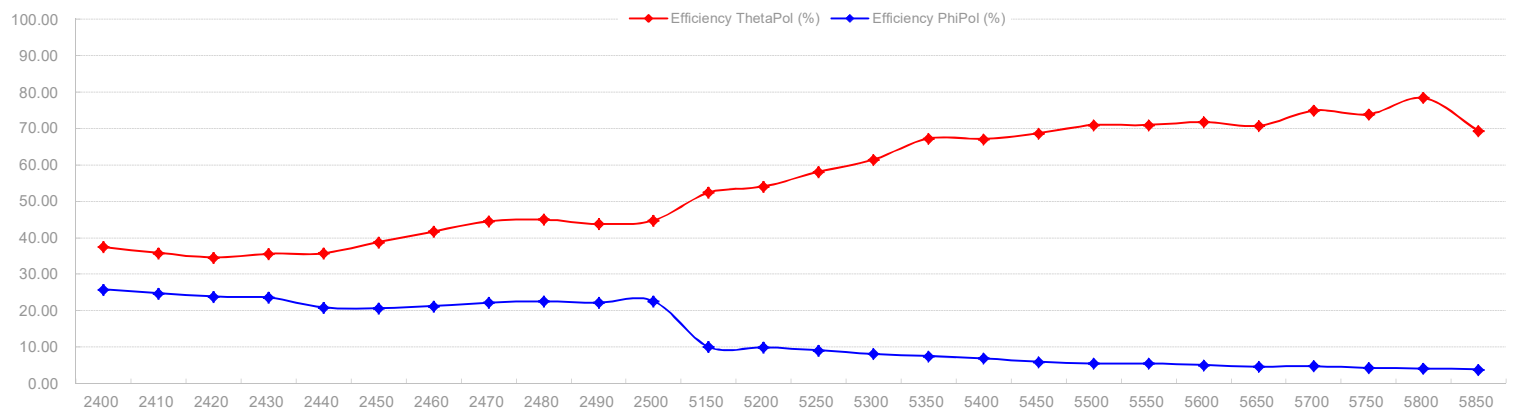
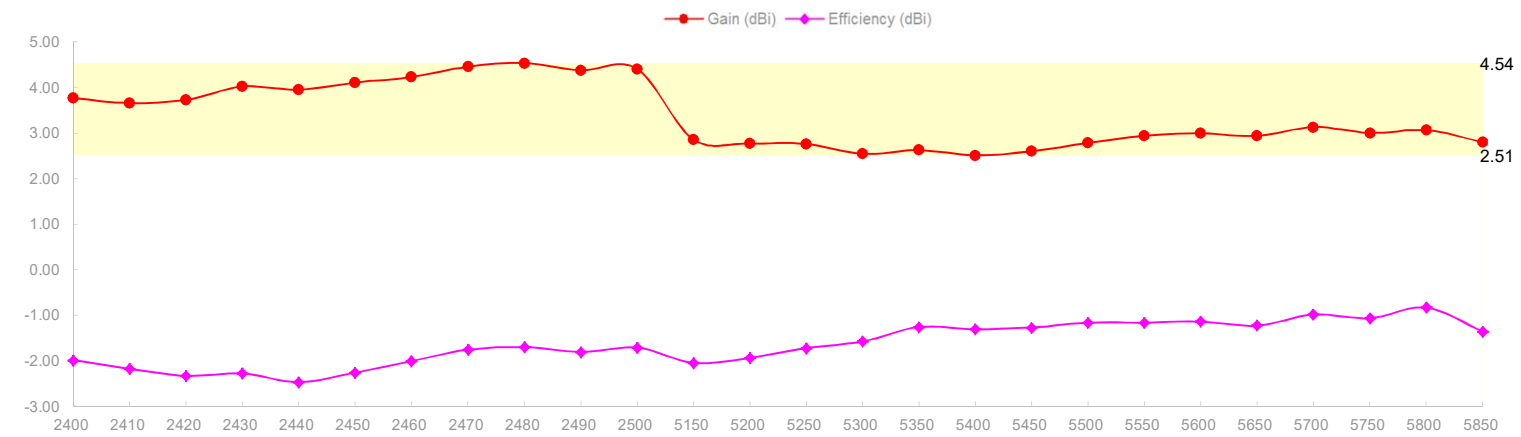
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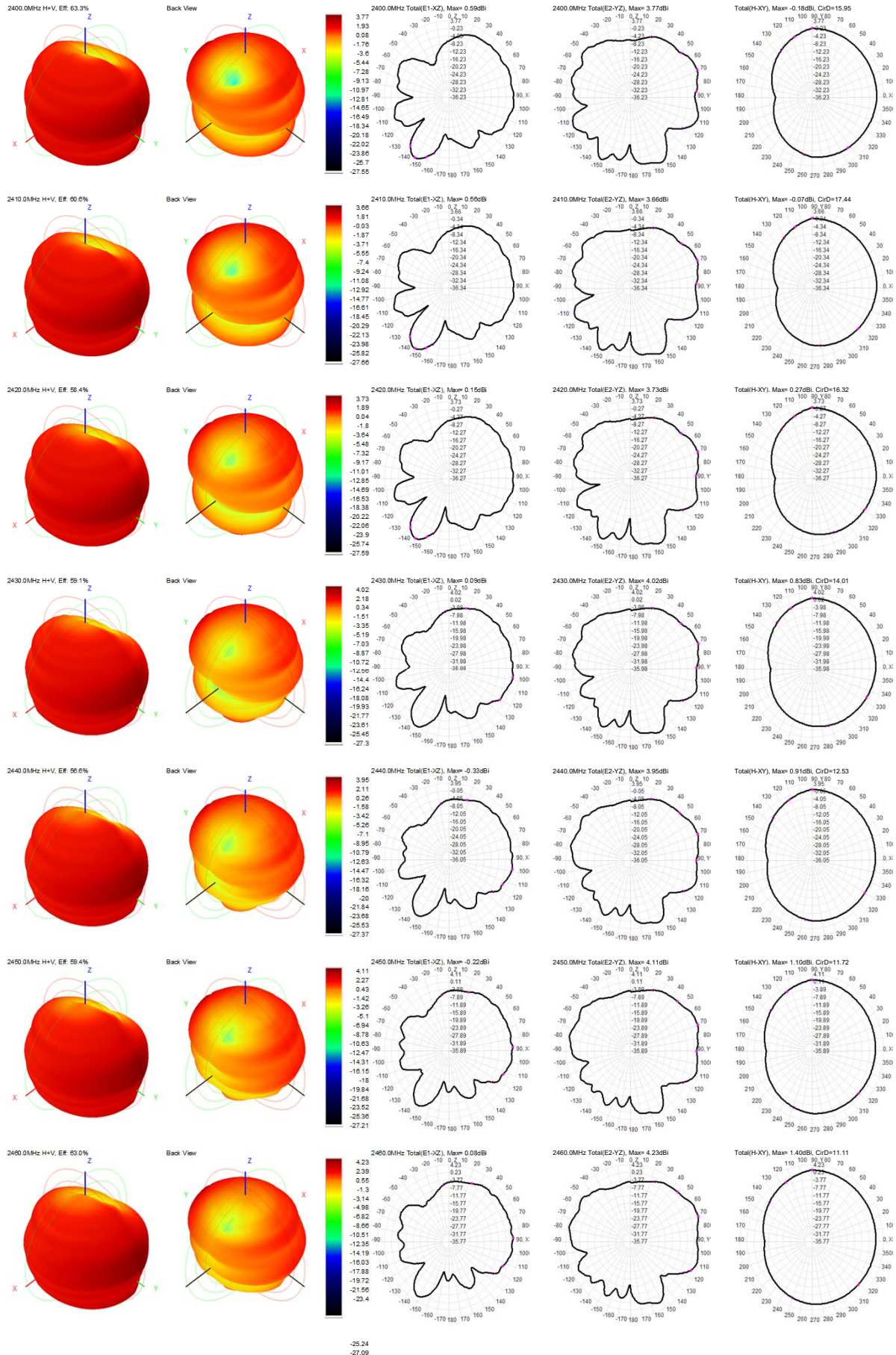




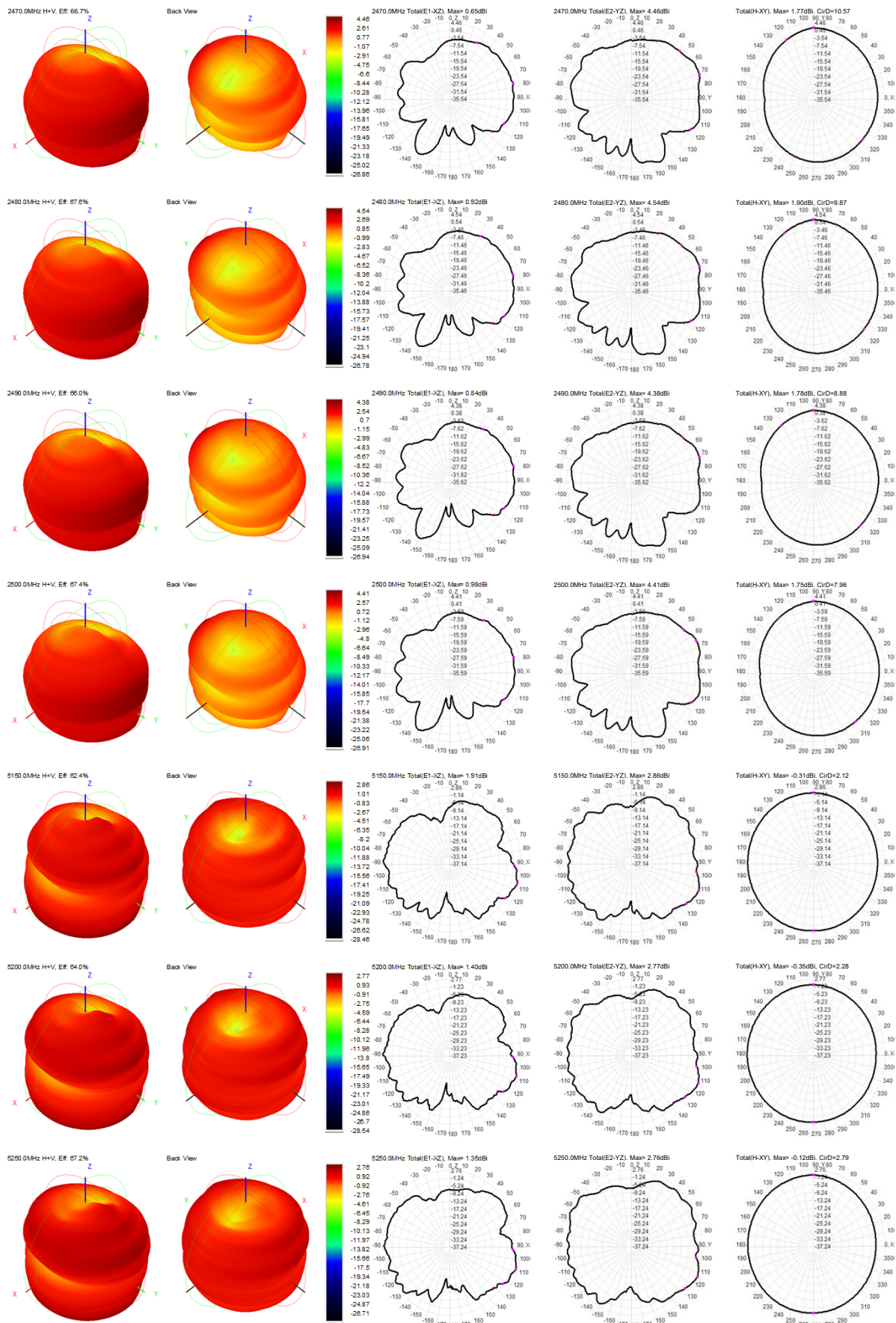
T90(H)圆度	15.95	17.44	16.32	14.01	12.53	11.72	11.11	10.57	9.87	8.88	7.96	2.12	2.28	2.79	2.78	1.74	1.79	1.99	1.92	2.03	2.10	2.35	3.06	3.38	3.56	4.42
Gain 15deg (dBi)																										
E1(XZ)波瓣宽度	18.00	18.00	18.00	103.00	95.00	92.00	90.00	86.00	82.00	80.00	79.00	29.00	31.00	31.00	32.00	32.00	38.00	38.00	68.00	65.00	63.00	62.00	63.00	65.00	66.00	67.00
E1(XZ)前后比	0.03	0.05	0.04	0.74	1.79	2.50	2.81	3.16	3.24	2.96	2.55	6.21	6.45	7.13	7.70	8.59	9.32	9.23	10.04	9.93	9.79	10.03	9.15	8.21	7.23	6.14
E2(YZ)波瓣宽度	34.00	35.00	37.00	39.00	42.00	44.00	68.00	68.00	66.00	63.00	62.00	27.00	27.00	27.00	27.00	28.00	24.00	23.00	44.00	44.00	44.00	43.00	44.00	53.00	63.00	61.00
E2(YZ)前后比	1.88	2.09	2.53	3.23	3.98	4.33	4.22	3.97	3.77	3.52	3.36	6.45	5.97	5.83	5.55	6.15	6.69	7.11	7.57	7.75	8.53	9.52	9.13	9.06	8.32	8.34
最大增益处轴比(P)	19.28	12.85	8.08	10.23	29.40	13.91	11.85	9.81	7.94	6.41	7.30	16.07	12.45	9.29	8.81	8.25	7.10	5.65	24.43	32.91	28.56	22.45	14.92	15.49	39.15	23.40
顶点(Theta=0)处轴比(P)	2.21	0.61	3.82	6.99	9.53	11.20	12.58	14.58	17.21	23.41	46.14	7.68	20.86	47.16	21.00	25.95	11.87	7.80	3.80	2.89	4.41	9.15	12.39	12.85	11.23	8.79
仰角10度最差(大)轴比(P)	53.49	81.98	45.57	56.50	47.62	50.17	50.89	58.92	52.99	53.41	52.10	71.88	56.76	51.91	64.21	61.70	63.73	52.51	58.20	55.25	73.24	57.77	60.09	55.63	50.66	57.24
Hc(XY)波瓣宽度	160.00	145.00	135.00	136.00	142.00	154.00	156.00	153.00	153.00	162.00	171.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	358.00	340.00	332.00	298.00
Hc(XY)前后比	3.42	4.55	5.47	5.21	4.23	3.64	3.62	3.87	4.02	3.81	3.61	1.60	1.62	2.14	1.97	1.00	0.97	0.92	0.73	0.62	0.44	0.09	0.01	0.08	0.14	0.19
左旋圆极化效率(%)	39.92	38.97	37.89	37.76	34.94	35.47	37.06	38.99	39.04	37.33	37.35	31.56	32.77	35.08	35.88	38.03	37.91	38.66	40.58	41.75	42.13	40.13	41.84	40.63	41.62	36.16
右旋圆极化效率(%)	23.34	21.59	20.56	21.39	21.68	23.95	25.95	27.73	28.54	28.64	30.04	30.86	31.23	32.17	33.67	36.77	36.07	35.94	35.83	34.75	34.74	35.22	37.82	37.58	40.90	36.98

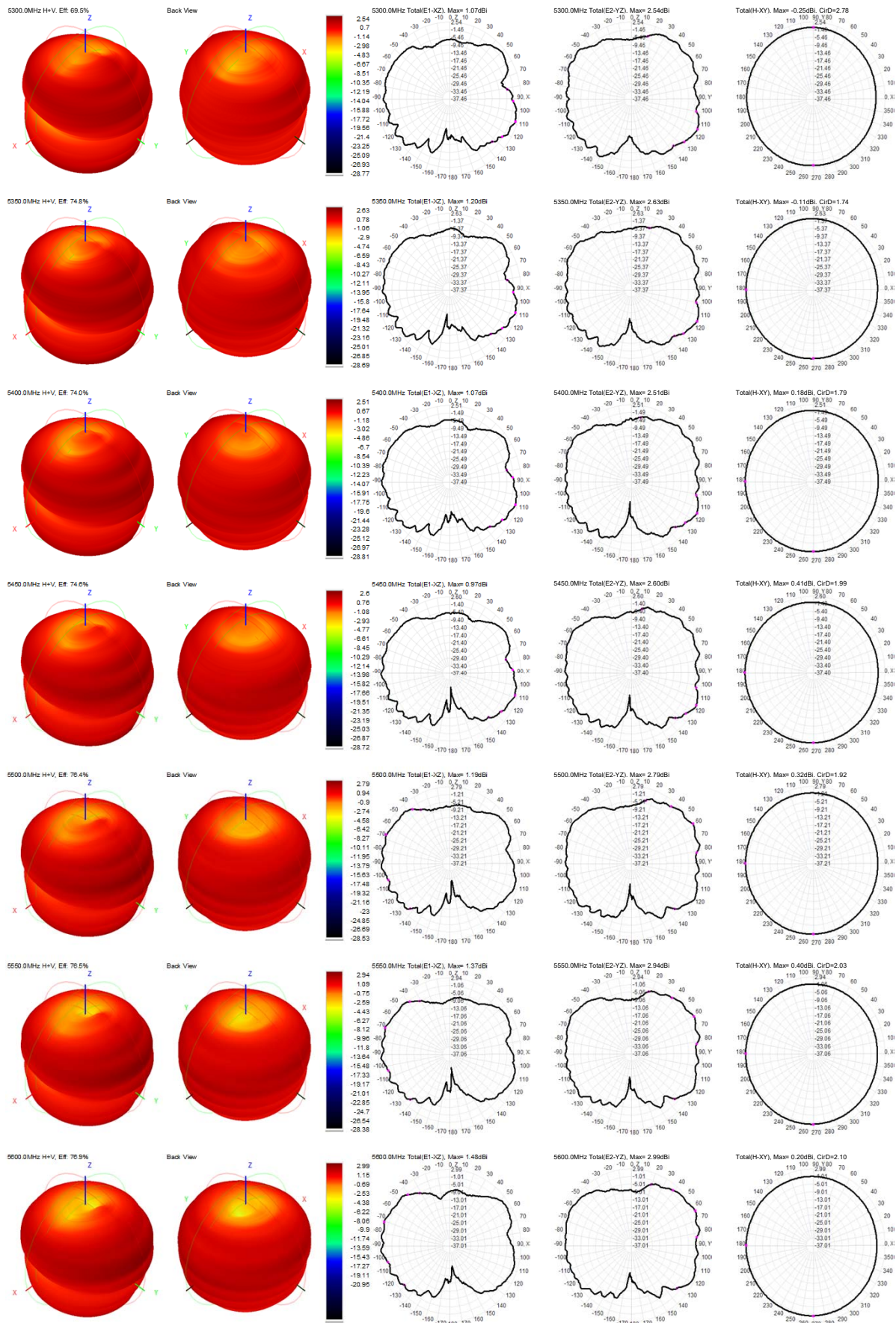






-25.24
-27.09

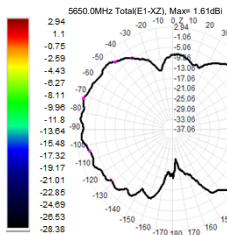
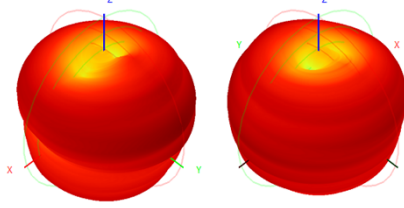




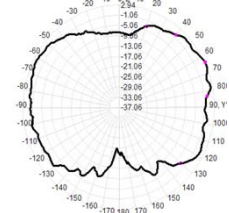
-26.48
-28.32

5650.0MHz H+V, Ef: 75.4%

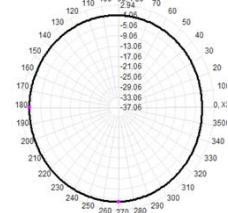
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5650.0MHz Total(E2-YZ), Max=2.94dBi

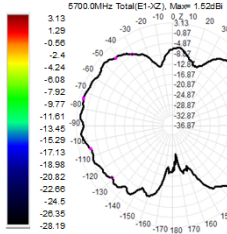
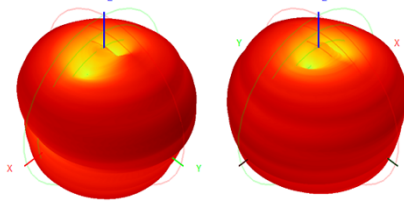


Total(H-XY), Max= -0.19dBi, CirD=2.35

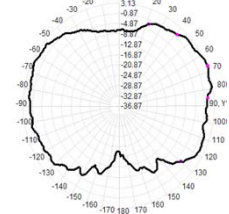


5700.0MHz H+V, Ef: 79.7%

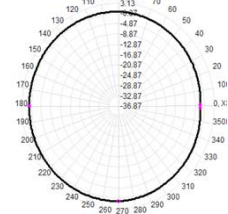
Back View



5700.0MHz Total(E2-YZ), Max=3.13dBi

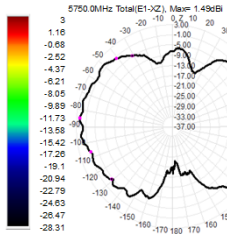
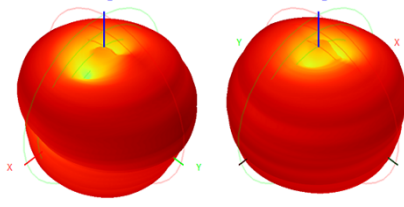


Total(H-XY), Max= 0.09dBi, CirD=3.06

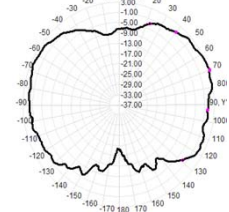


5750.0MHz H+V, Ef: 78.2%

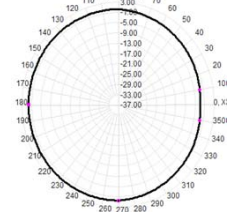
Back View



5750.0MHz Total(E2-YZ), Max=3.00dBi

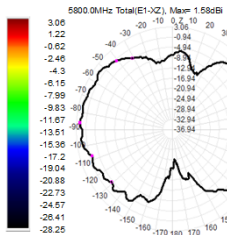
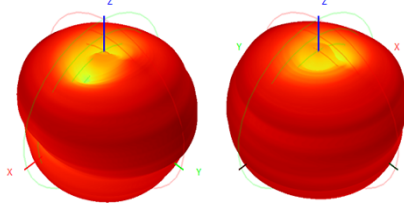


Total(H-XY), Max= 0.19dBi, CirD=3.38

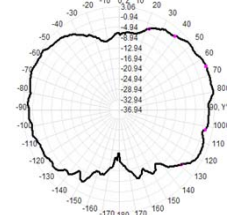


5800.0MHz H+V, Ef: 82.5%

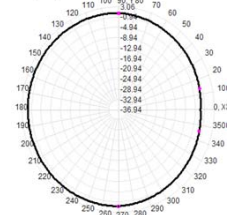
Back View



5800.0MHz Total(E2-YZ), Max=3.06dBi

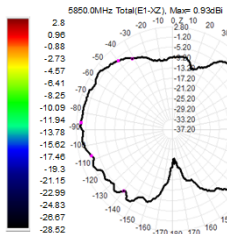
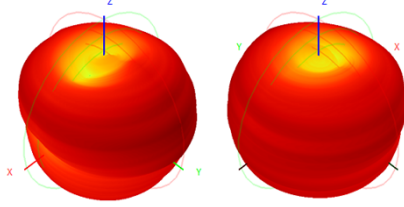


Total(H-XY), Max= 0.60dBi, CirD=3.56

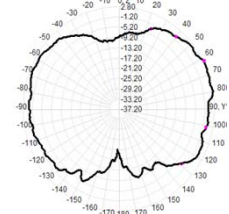


5850.0MHz H+V, Ef: 73.1%

Back View



5850.0MHz Total(E2-YZ), Max=2.80dBi



Total(H-XY), Max= 0.39dBi, CirD=4.42

