规 格 承 认 书
SPECIFICATION FOR APPROVAL

客　　户
CUSTOMER: _____

客 户 料 号
CUSTOMER NO: _____

品　　名 **2.4-5.8GHz Antenna**
PART NAME: _____

供 方 料 号 **HD.P-47-8-100-IPEX**
SUPPLIER NO: _____

承认书项目表

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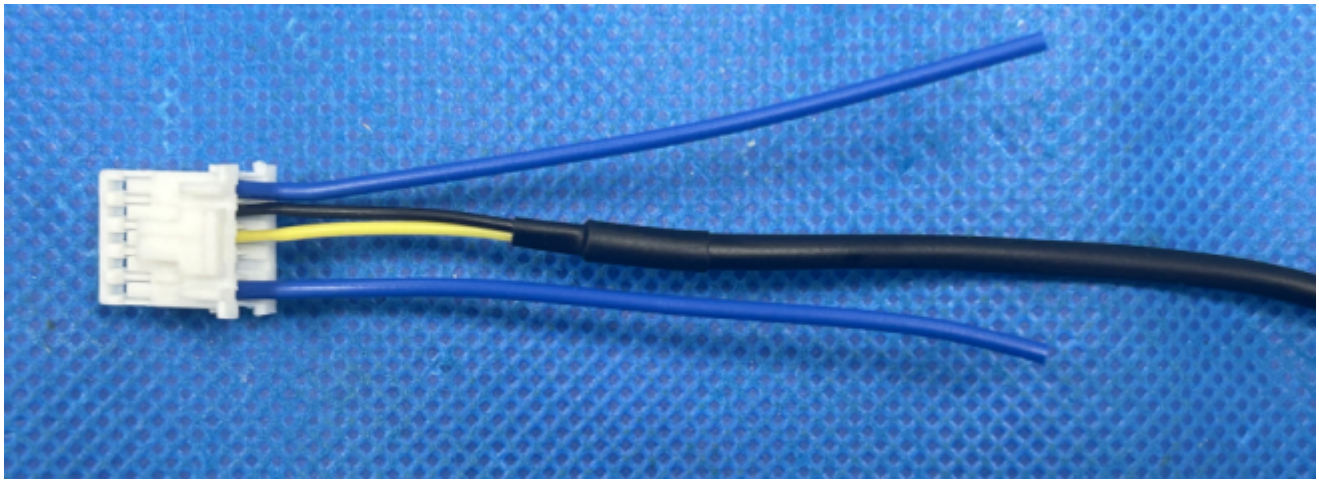
add：东莞市大朗镇佛新聚祥二路26号 电话：0769-82226176 传真：0769-82226175



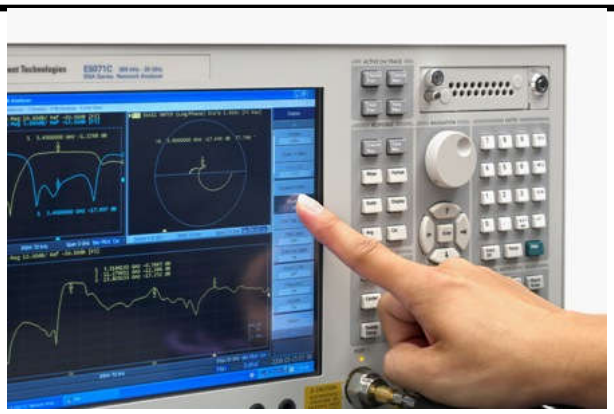
The cable is RF-Φ1.13 cable with IPEX and length is 73mm

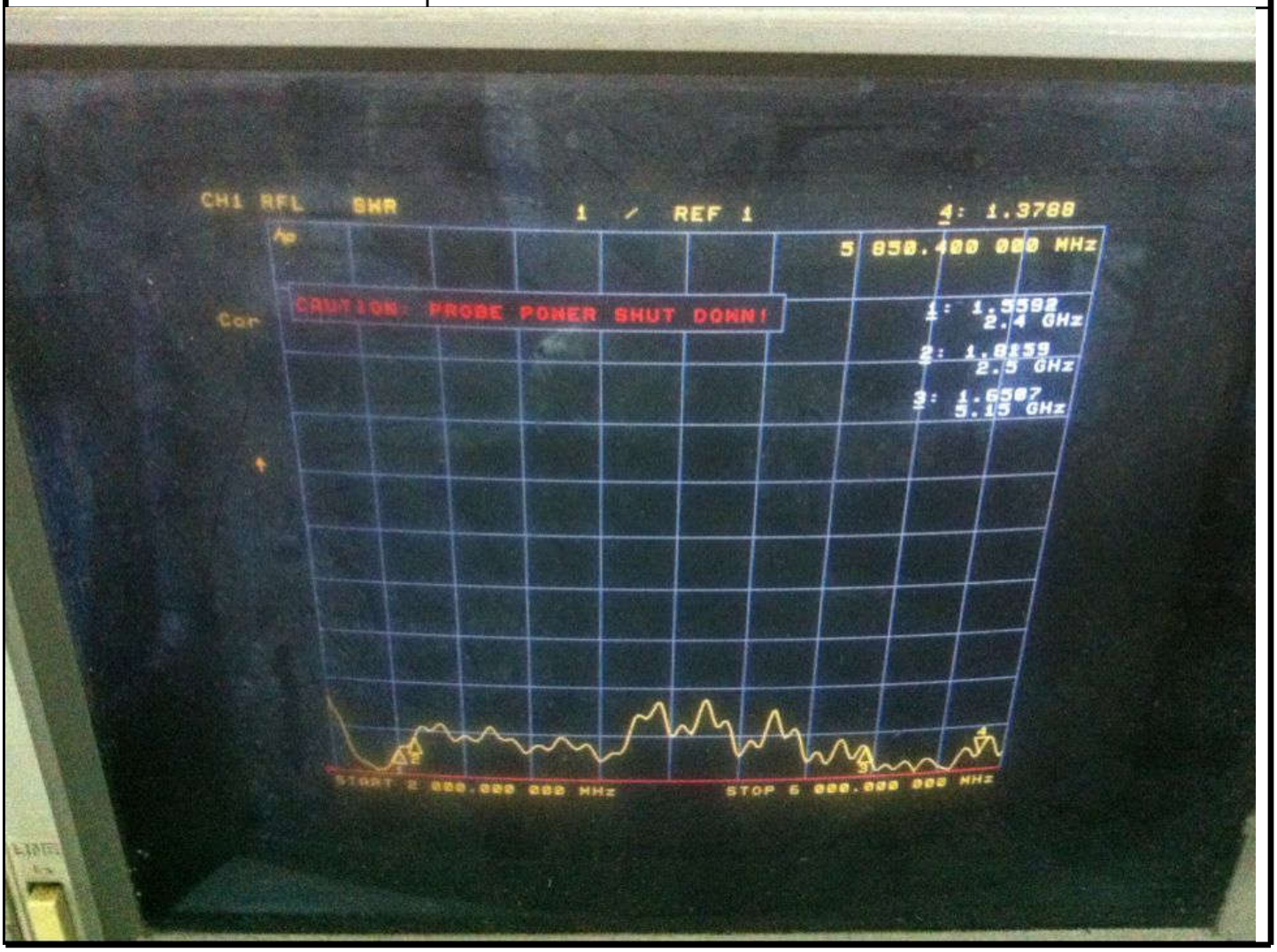
电 性 测 试 报 告
Test Reports

Electrical Properties	
Frequency	2.4-5.8GHz
Impedance	50 0hm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	-2.12 dBi(2.4GMax);2.97dBi(5G Max)
Cable Loss	3.2 dB / m Max @ 2450 MHz
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	None
Physical Properties	
Antenna Material	FPCB
Cable Type	O.D. 1.13mm // L= 73mm
Operating Temp.	-10 ~ +60 ˚C
Storage Temp.	-10 ~ +70 ˚C
Cable Color	Gray

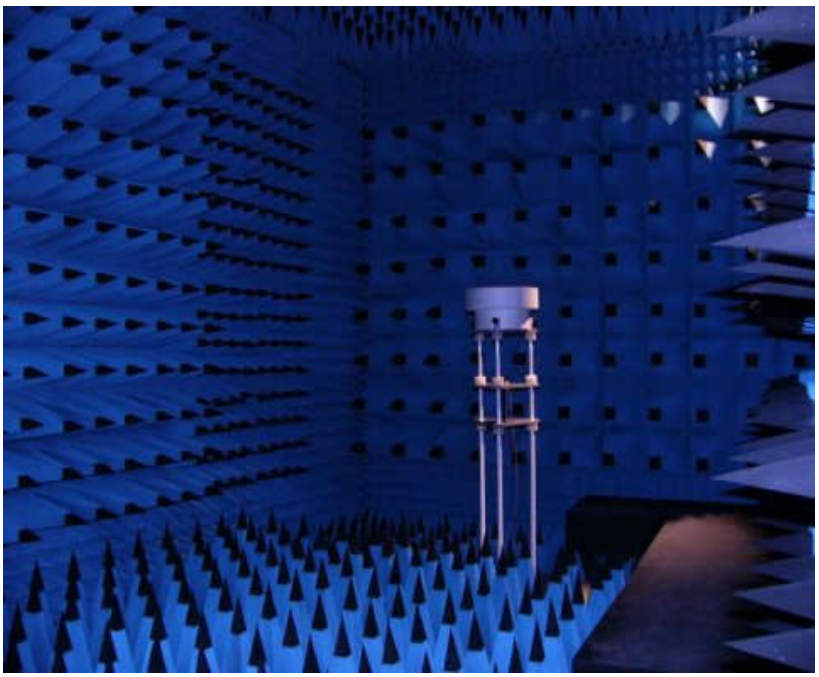
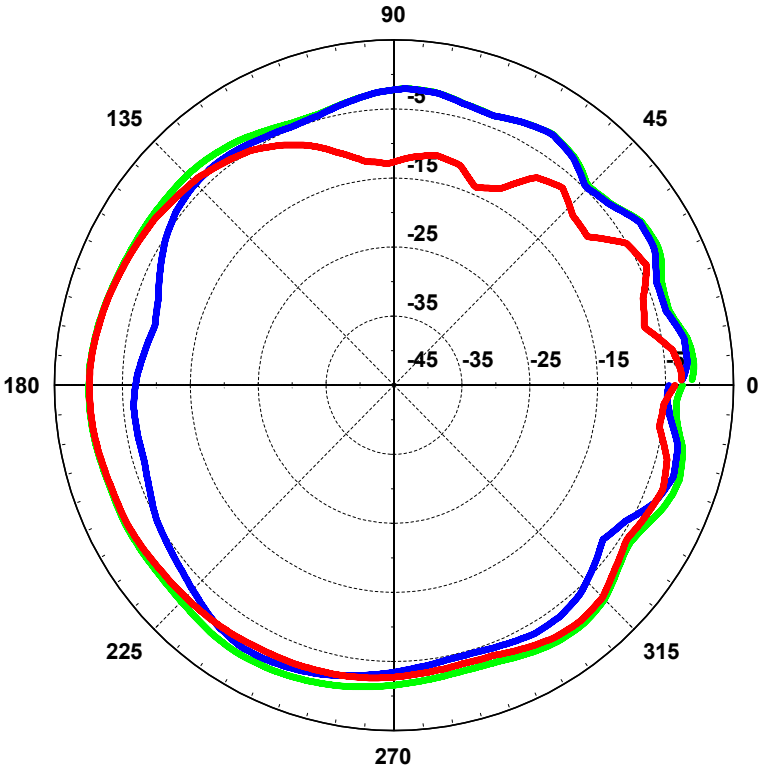
S 参 数 测 试

S Parameter Test

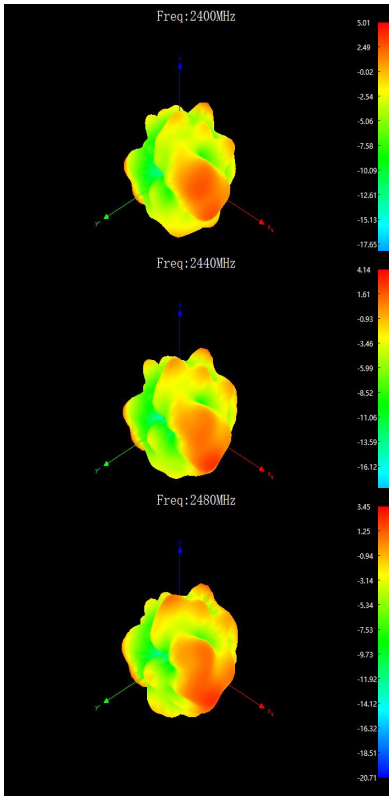
Agilent E5071C	



增 益 测 试
Gain Test

Antenna Radiation Pattern VS Gain	
	

2.4G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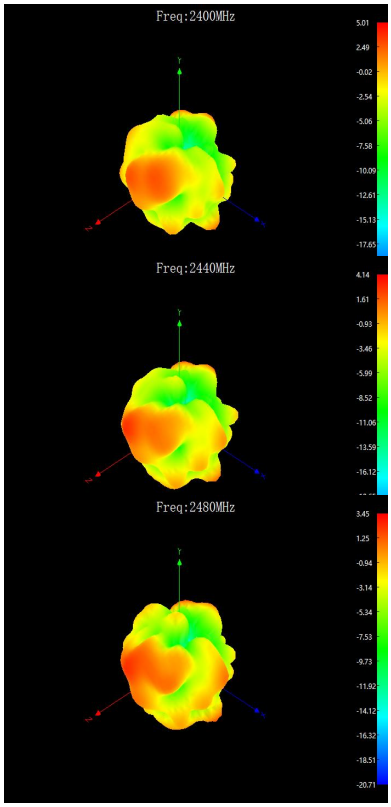
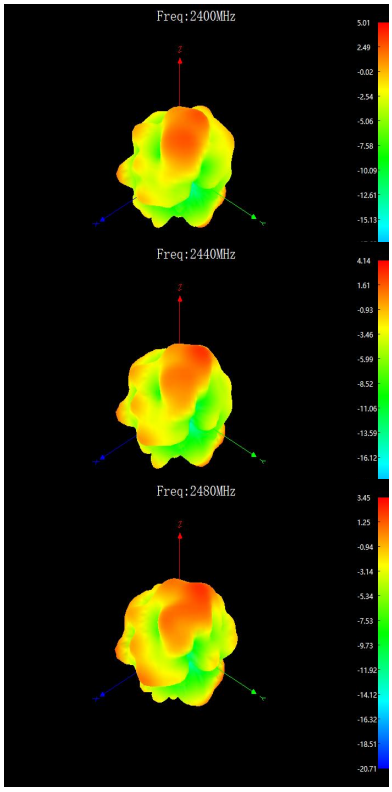
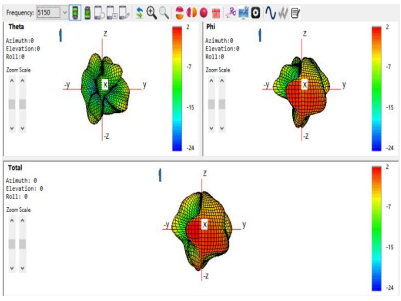
5.01
2.49
-0.02
-2.54
-5.06
-7.58
-10.09
-12.61
-15.13
-17.65
Freq:2440MHz
4.14
1.61
-0.93
-3.46
-5.99
-8.52
-11.06
-13.59
-16.12
Freq:2480MHz
3.45
1.25
-0.94
-3.14
-5.34
-7.53
-9.73
-11.92
-14.12
-16.32
-18.51
-20.71


Freq:2400MHz
5.01
2.49
-0.02
-2.54
-5.06
-7.58
-10.09
-12.61
-15.13
-17.65
Freq:2440MHz
4.14
1.61
-0.93
-3.46
-5.99
-8.52
-11.06
-13.59
-16.12
Freq:2480MHz
3.45
1.25
-0.94
-3.14
-5.34
-7.53
-9.73
-11.92
-14.12
-16.32
-18.51
-20.71


Freq:2400MHz
5.01
2.49
-0.02
-2.54
-5.06
-7.58
-10.09
-12.61
-15.13
Freq:2440MHz
4.14
1.61
-0.93
-3.46
-5.99
-8.52
-11.06
-13.59
-16.12
Freq:2480MHz
3.45
1.25
-0.94
-3.14
-5.34
-7.53
-9.73
-11.92
-14.12
-16.32
-18.51
-20.71

5G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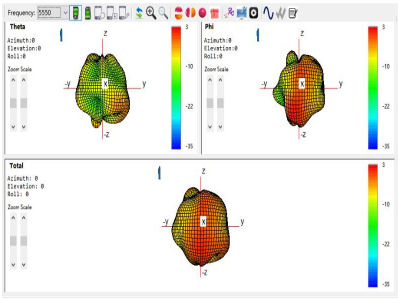
Theta
Phi
Total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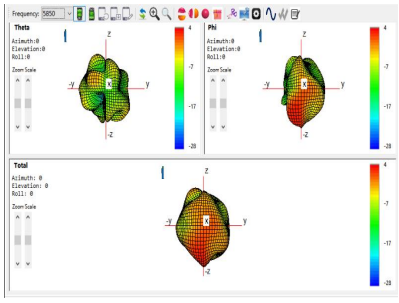
Theta
Phi
Total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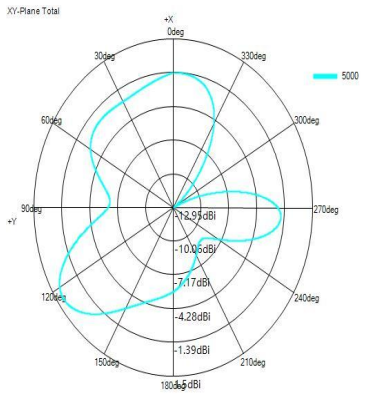
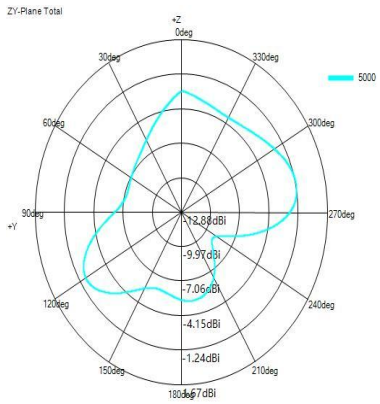
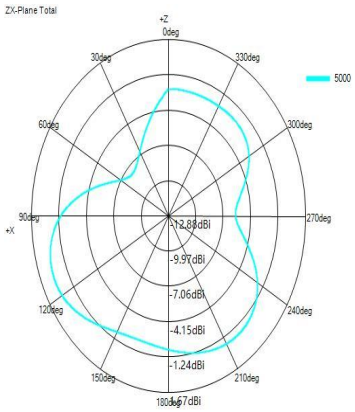
Theta
Phi
Total


XY-Plane Total
+X
0deg
30deg
330deg
60deg
300deg
90deg
+Y
270deg
120deg
240deg
150deg
210deg
180deg
5000
-12.95dBi
-10.06dBi
-7.17dBi
-4.28dBi
-1.39dBi
-1.5dBi


ZY-Plane Total
+Z
0deg
30deg
330deg
60deg
300deg
90deg
+Y
270deg
120deg
240deg
150deg
210deg
180deg
5000
-12.88dBi
-9.97dBi
-7.06dBi
-4.15dBi
-1.24dBi
-1.67dBi


ZX-Plane Total
+Z
0deg
30deg
330deg
60deg
300deg
90deg
+X
270deg
120deg
240deg
150deg
210deg
180deg
5000
-12.88dBi
-9.97dBi
-7.06dBi
-4.15dBi
-1.24dBi
-1.67dBi

GAIN & Efficiency

Frequency/Mhz	Efficiency/dBi	Efficiency/%	Frequency/Mhz	Efficiency/dBi	Efficiency/%
2400	-2.37	57.94	2445	-2.25	59.57
2405	-2.26	59.43	2450	-2.29	59.02
2410	-2.44	57.02	2455	-2.2	60.26
2415	-2.29	59.02	2460	-2.29	59.02
2420	-2.19	60.39	2465	-2.36	58.08
2425	-2.12	61.38	2470	-2.35	58.21
2430	-2.15	60.95	2475	-2.46	56.75
2435	-2.37	57.94	2480	-2.45	56.89
2440	-2.35	58.21	2485	-2.34	58.34
2445	-2.25	59.57			

Frequency (MHz)	Gain(dBi)	Efficiency(%)
5150	1.91	41.63
5200	1.44	44.64
5250	1.66	44.49
5300	1.96	43.29
5350	1.54	44.35
5400	1.32	44.9
5450	1.27	44.18
5500	1.65	46.62
5550	1.83	46.72
5600	1.44	43.63
5650	2	42.64
5700	2.03	42.17
5750	2	39.56
5800	2.97	45.59
5850	2.73	44.62