



Word Easy Electronics Co.,Ltd.

SPECIFICATION FOR APPROVAL

2023/03/14

Date

23031401

File No

1.0

Revision

Flaircomm Microelectronics, Inc.

CUSTOMER: _____

WNP019

CUSTOMER NO: _____

LTE Antenna L=91mm MHF

PART NAME: _____

WE092N.F0005.V01

SUPPLIER NO: _____

Date:

Q “TY:

CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

Hunter

Zhou Hongtao

Fang

WE-RD-F01-A

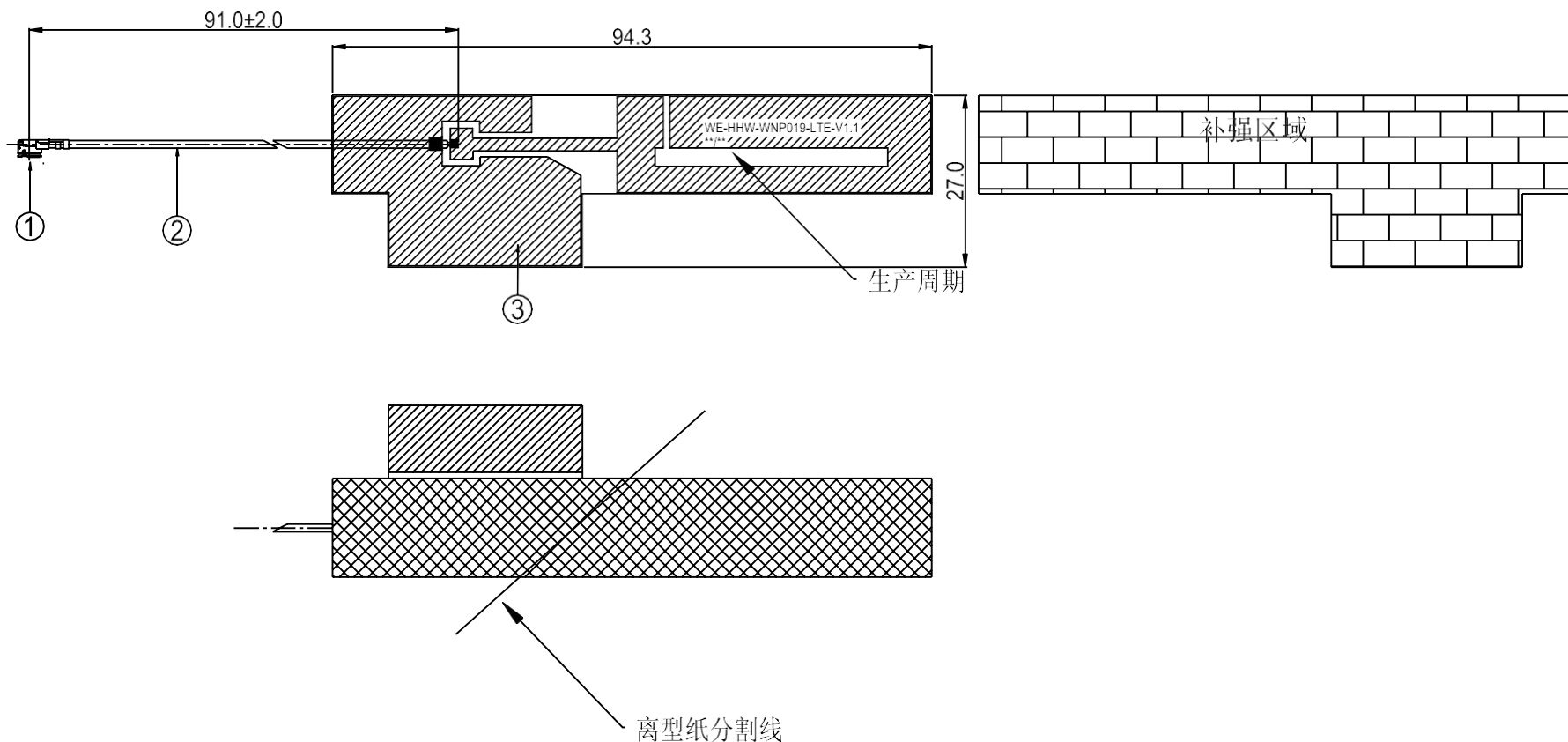


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10	N/A	N/A	N/A

RoHS

Compatible

REV.	DESCRIPTION	DATE
△	首次发行	2023.02.17



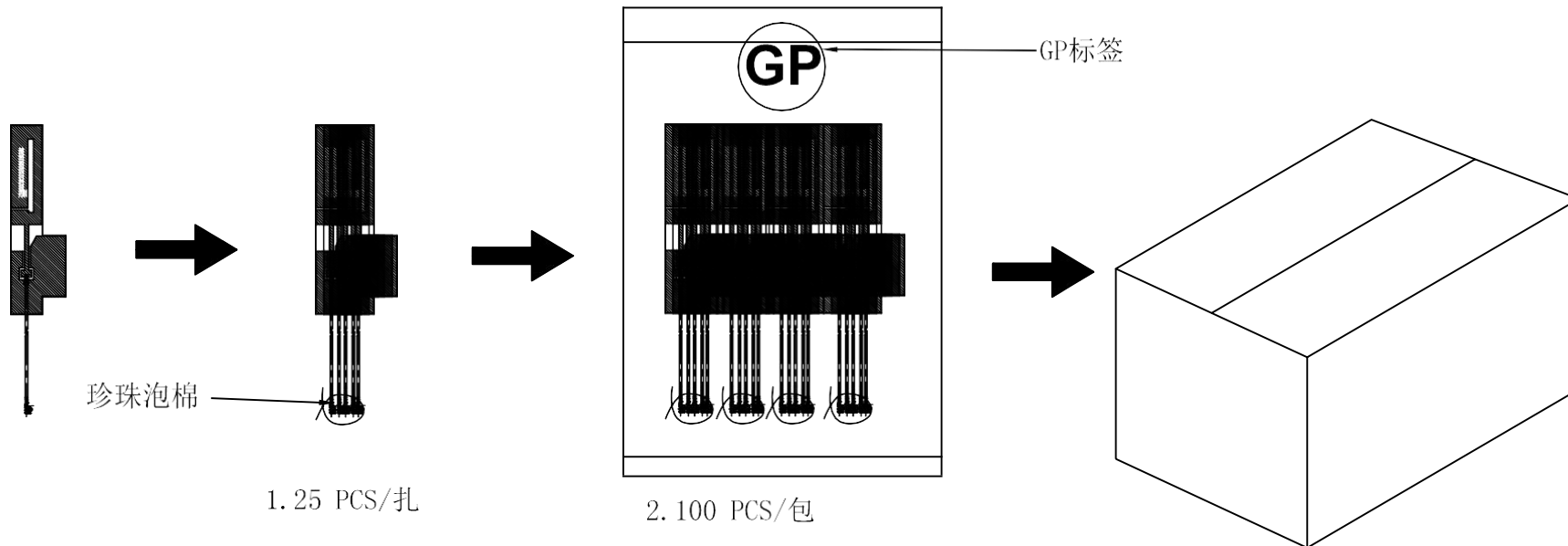
3	FPCB	94.3*37.7*T0.4MM	FPCB	FPC0318.V01	1
2	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	CAB0113.V02	1
1	Mini Connector	Au Plated 1代	Cu	MF-T0XD1.V01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

		福州市瀚宇正达电子有限公司		Tel :0591-22628085	
		World Easy Electronics Co.,Ltd.		Fax:0591-22627656	
PART NAME: LTE Antenna L=91mm MHF					
PART NO.: WE092N.F0005.V01				DATE: 2023-02-17	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance	
		周红涛	UNITS: mm	X.X ±0.50	
			SCALE: 1/1	X.XX±0.15	
			REVISION: A	X° ±3°	

RoHS
Compatible

包装说明

REV.	DESCRIPTION	DATE
△	首次发行	2023.02.17



3. 每箱根据实际订
单而定

 福州市瀚宇正达电子有限公司 World Easy Electronics Co.,Ltd.				Tel :0591-22628085 Fax:0591-22627656	
PART NAME: LTE Antenna L=91mm MHF					
PART NO.: WE092N.F0005.V01				DATE: 2023-02-17	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance	
		周红涛	UNITS: mm	X.X ±0.50	
			SCALE: 1/1	X.XX±0.15	
			REVISION: A	X° ±3°	



天线规格

Antenna Specification

Electrical Properties

Frequency	700-960MHz 1710-2690MHz
Impedance	50 Ohm Nominal
V.S.W.R	See Page 6
Return Loss	See Page 6
Radiation	Omni-directional
Gain (Peak)	1.9dBi@700-960MHz 6.2dBi@1710-2690MHz
Polarization	Linear
Connector	1代I-PEX

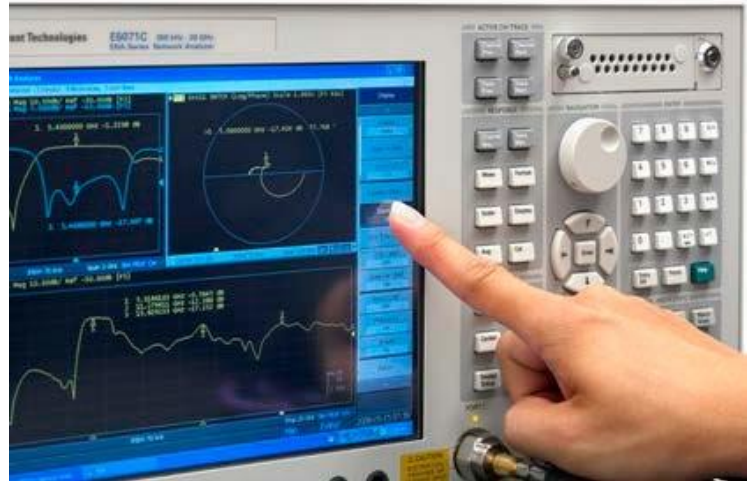
Physical Properties

Antenna Material	FPC
Cable Type	O.D.1.13mm//L=91mm
Operating Temp.	-20 ~ +70 °C
Storage Temp.	-20 ~ +70 °C
Cable Color	Gray

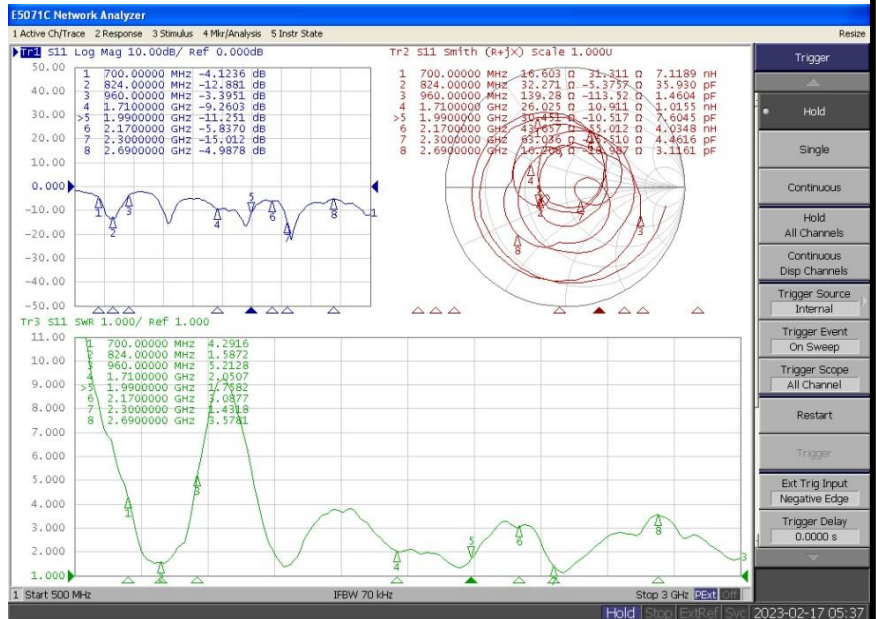


Antenna Performance Test

**Agilent
E5071C**

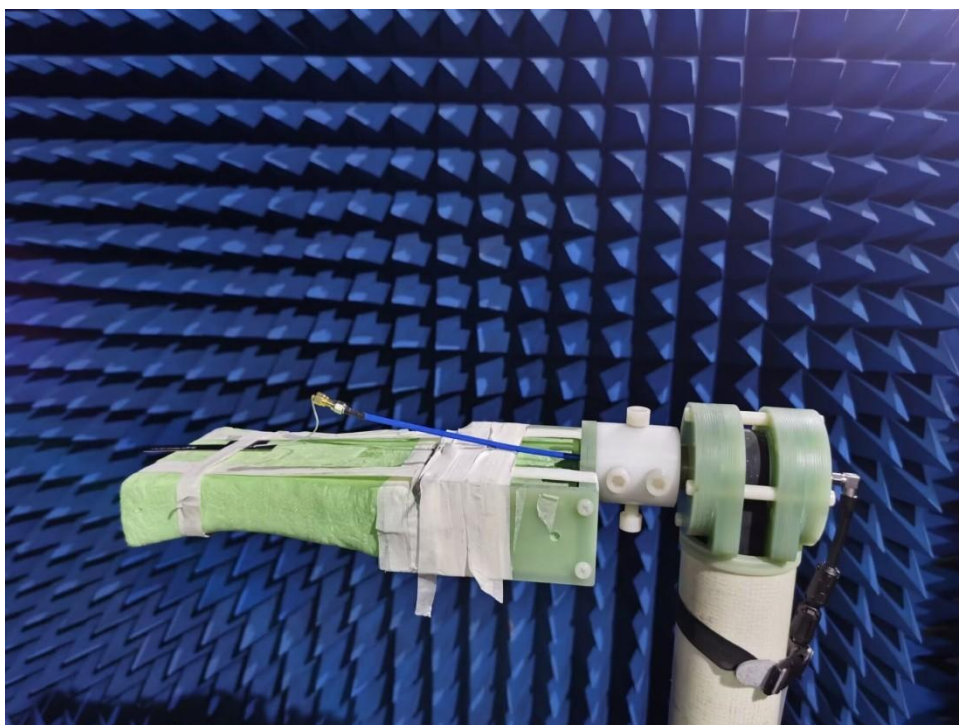
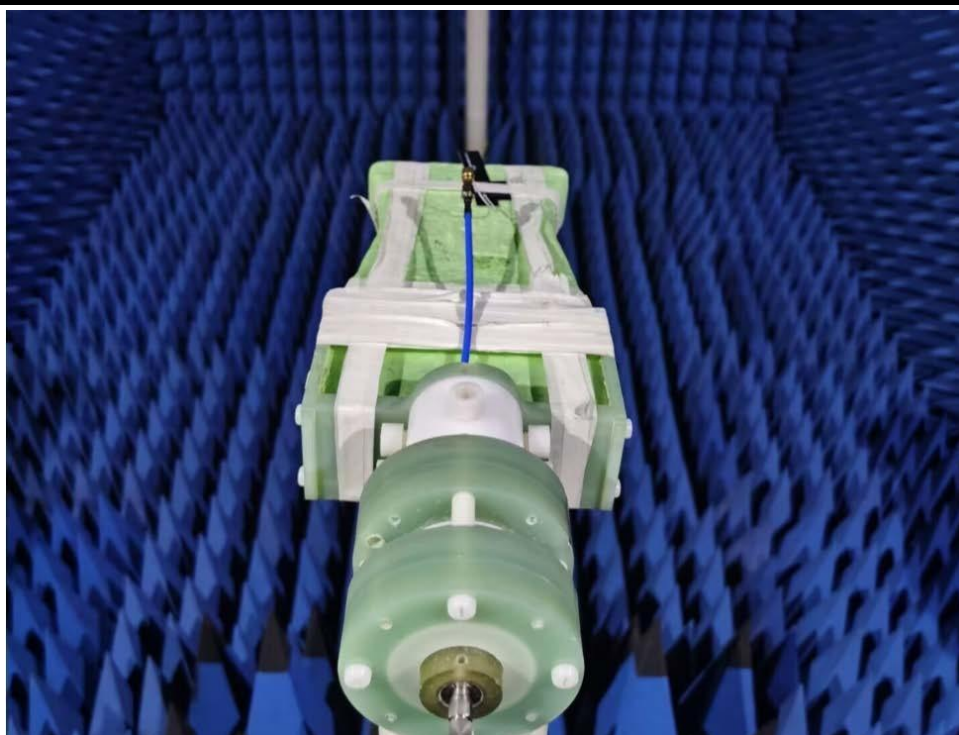


**S
Parameter
Test //
LTE**





Antenna Passive Test（单天线）





Passive Test For LTE (single antenna)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	20.1	-7.0	-2.1
720	20.4	-6.9	-1.3
740	19.5	-7.1	-1.2
760	18.5	-7.3	-1.4
780	17.7	-7.5	-1.9
800	18.3	-7.4	-2.0
820	21.3	-6.7	-1.4
840	25.1	-6.0	-0.8
860	30.3	-5.2	-0.2
880	35.1	-4.6	-0.4
900	43.4	-3.6	-0.3
920	48.8	-3.1	-0.1
940	49.3	-3.1	0.4
960	45.4	-3.4	0.4



Passive Test For LTE(single antenna)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1700	71.6	-1.5	2.7
1740	71.2	-1.5	2.7
1780	70.9	-1.5	2.8
1820	72.1	-1.4	3.5
1860	71.8	-1.4	3.1
1900	74.5	-1.3	3.1
1940	71.3	-1.5	2.3
1980	76.0	-1.2	2.3
2020	76.7	-1.2	2.3
2060	84.4	-0.7	3.0
2100	85.4	-0.7	2.6
2140	59.6	-2.3	1.3
2180	65.1	-1.9	1.3

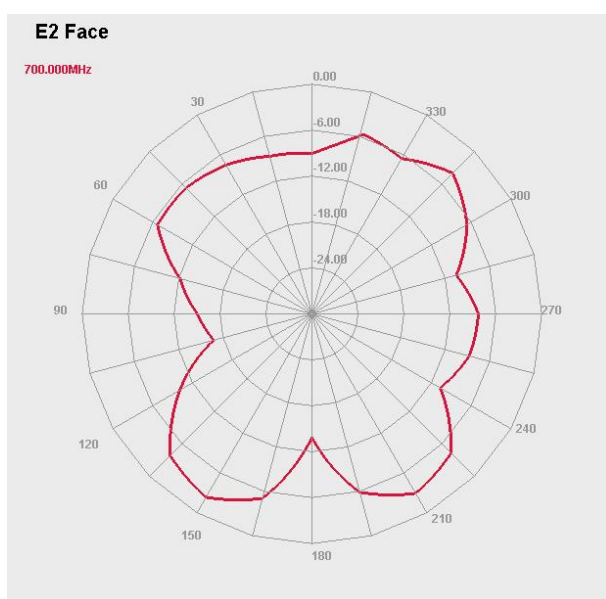
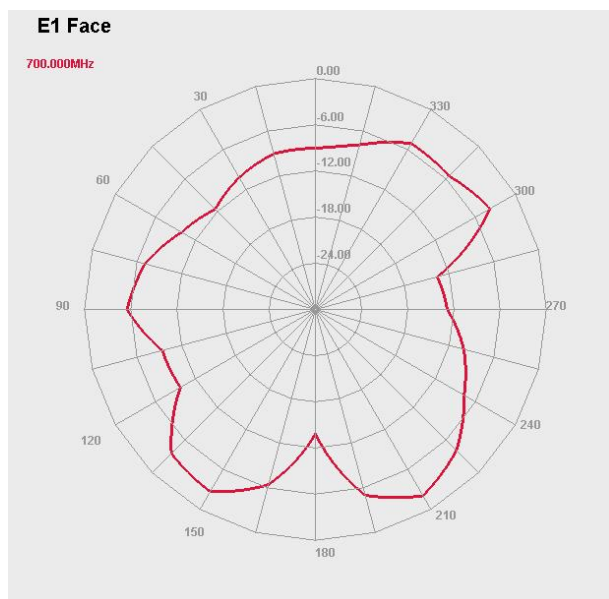
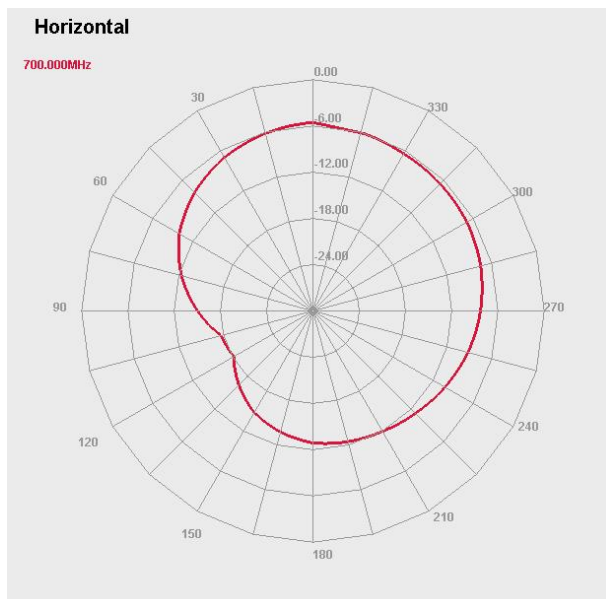
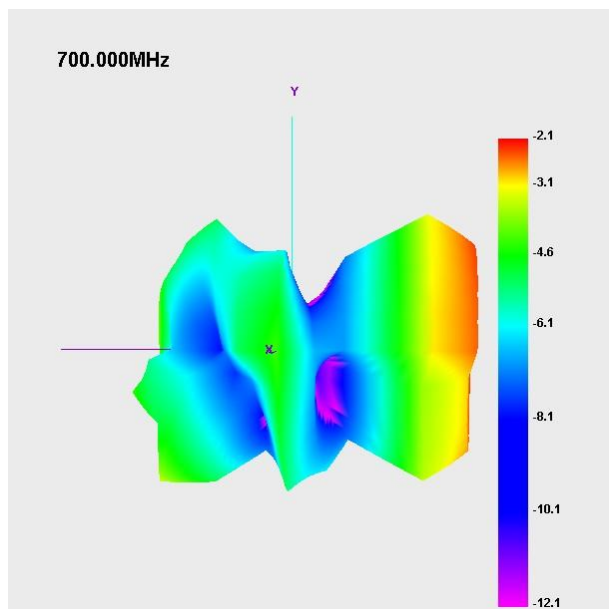


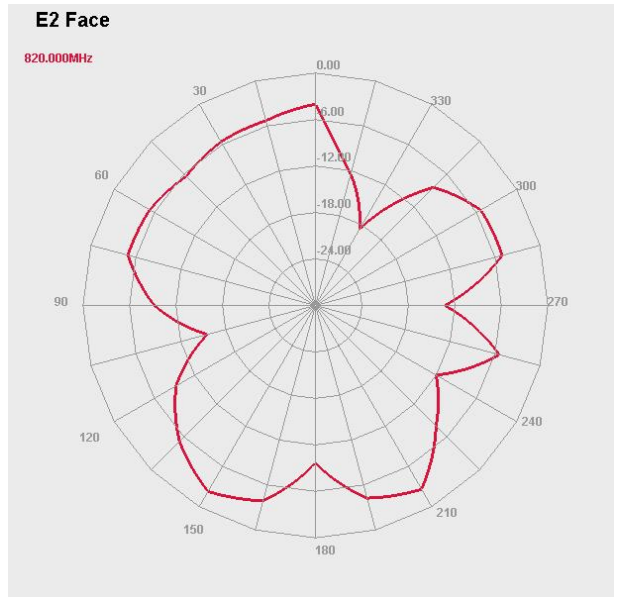
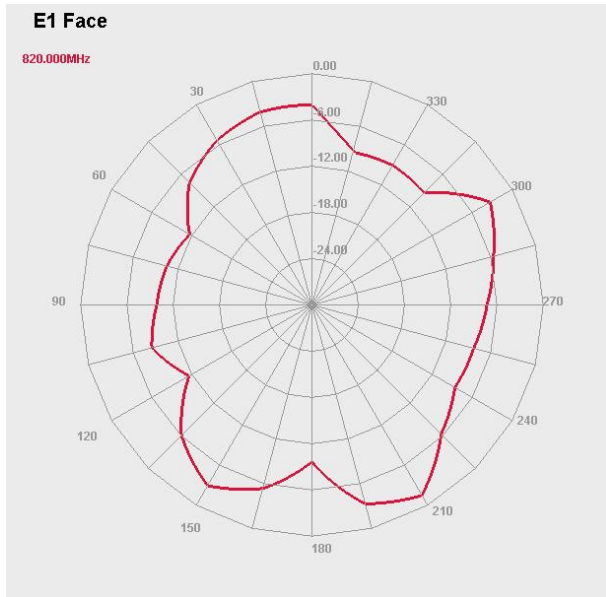
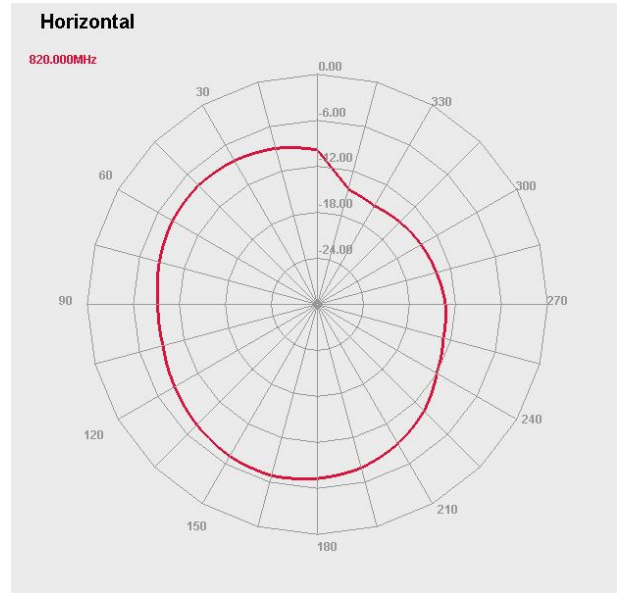
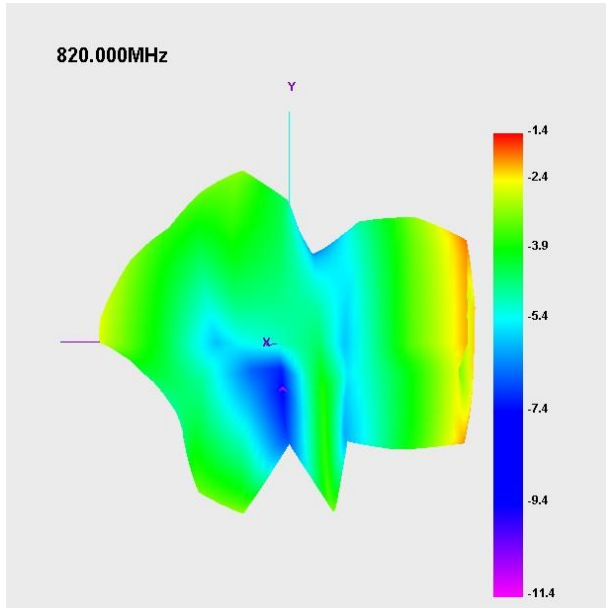
Passive Test For LTE (single antenna)

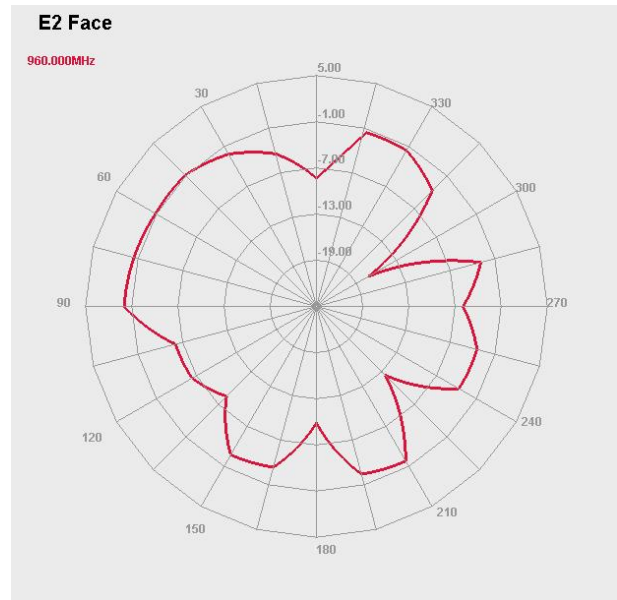
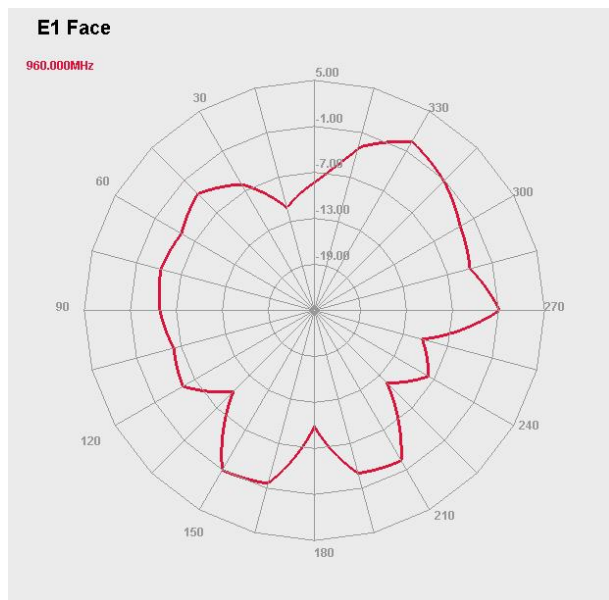
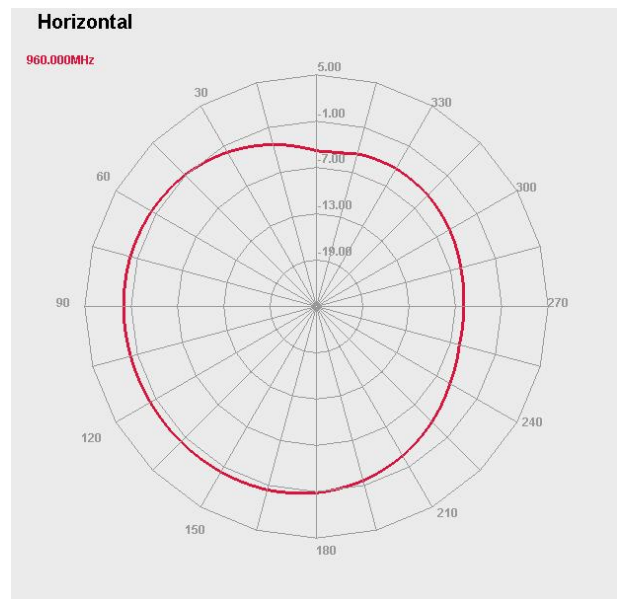
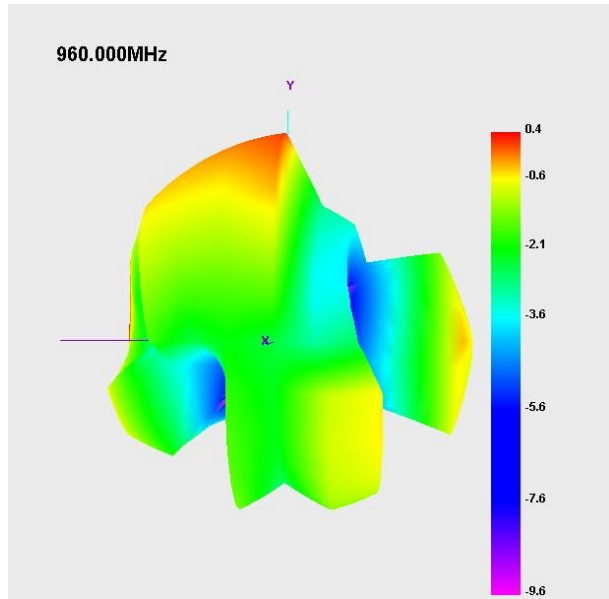
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2300	74.0	-1.3	0.1
2340	76.0	-1.2	0.3
2380	66.8	-1.8	0.2
2420	61.9	-2.1	2.2
2460	62.3	-2.1	1.5
2500	69.0	-1.6	1.6
2540	62.4	-2.1	1.5
2580	61.3	-2.1	2.2
2620	61.8	-2.1	2.4
2660	69.3	-1.6	2.9
2700	68.9	-1.6	2.9



Antenna Radiation Pattern (single ant

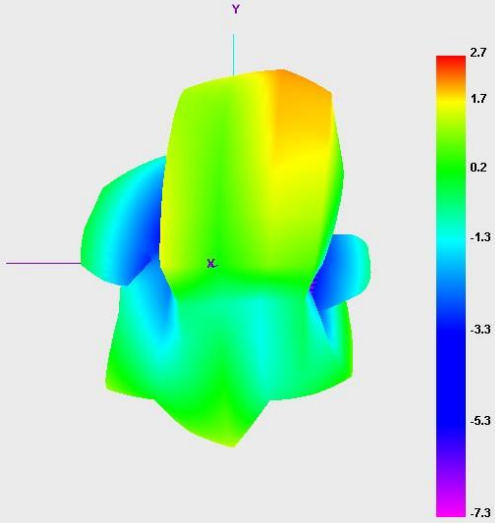






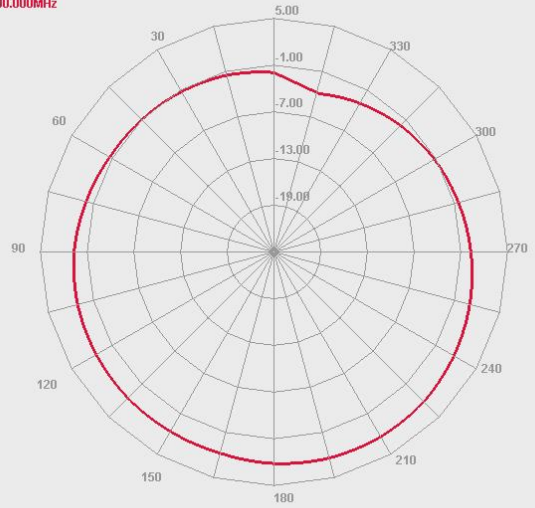


1700.000MHz



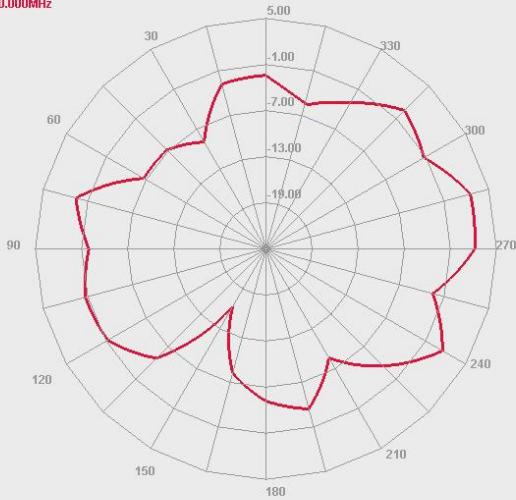
Horizontal

1700.000MHz



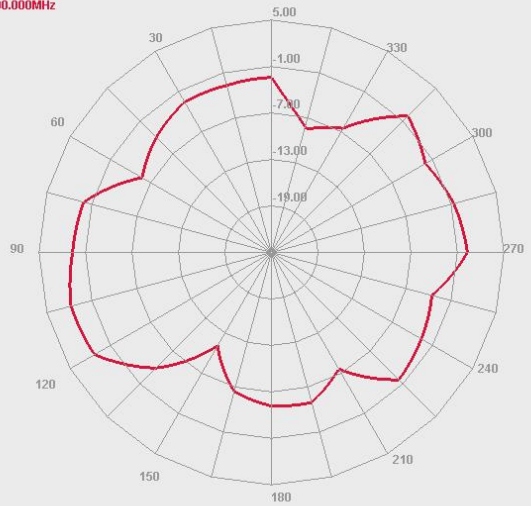
E1 Face

1700.000MHz



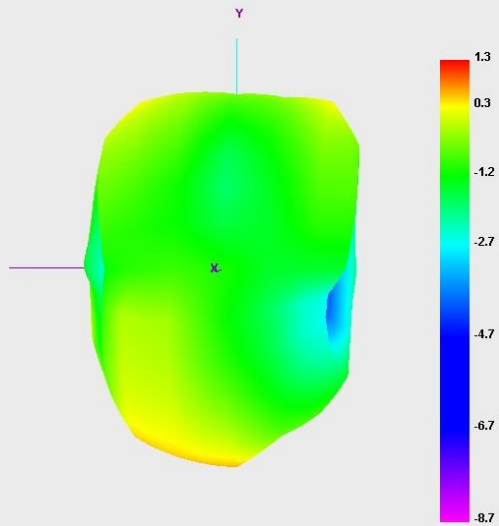
E2 Face

1700.000MHz



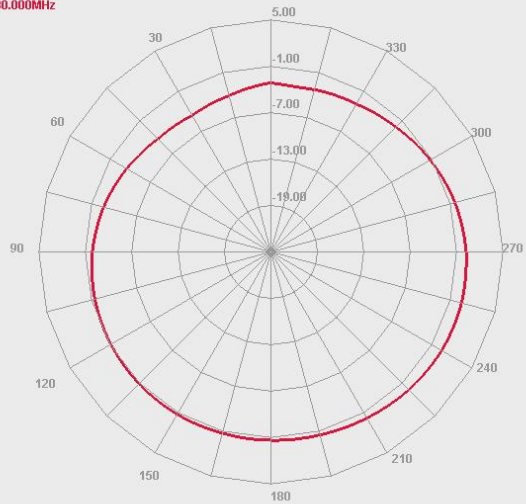


2180.000MHz



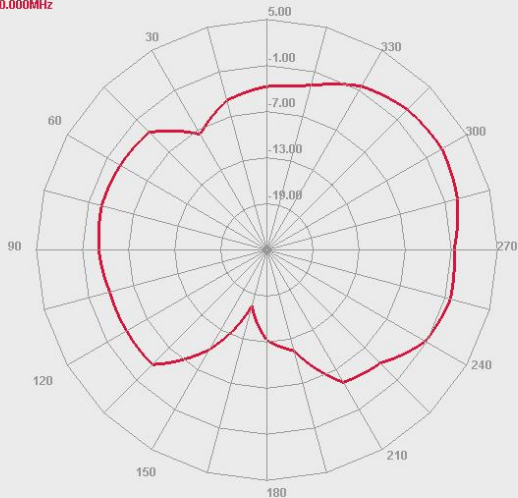
Horizontal

2180.000MHz



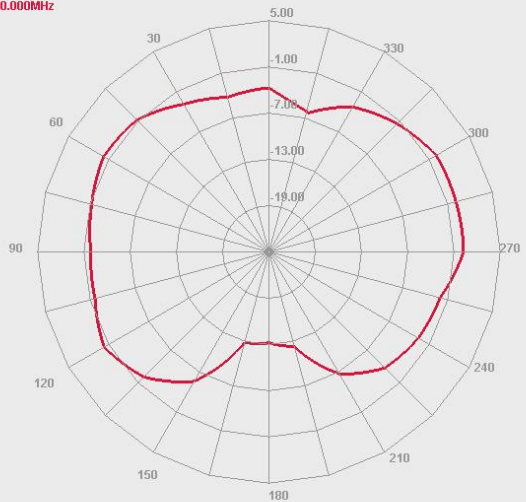
E1 Face

2180.000MHz



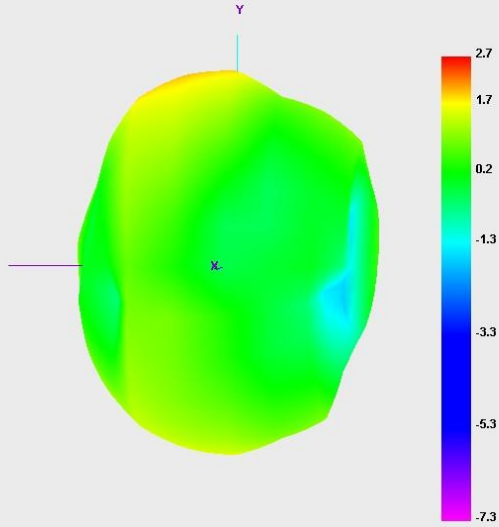
E2 Face

2180.000MHz



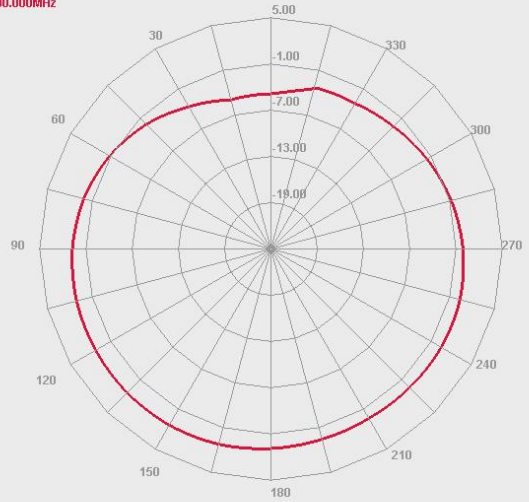


2300.000MHz



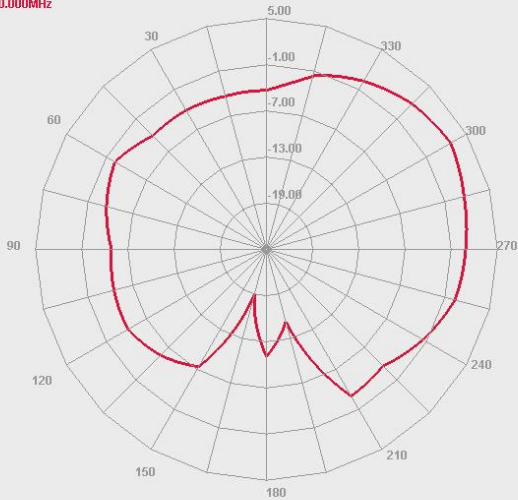
Horizontal

2300.000MHz



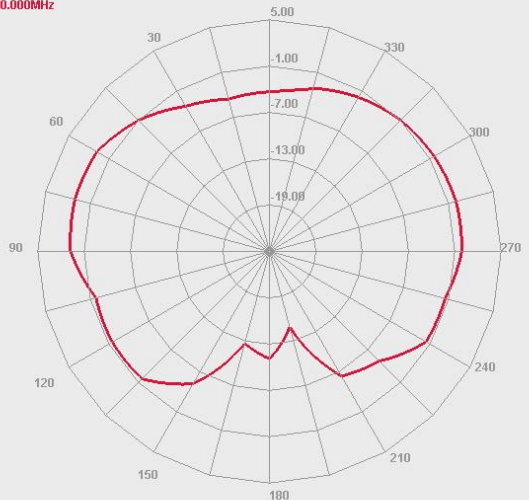
E1 Face

2300.000MHz



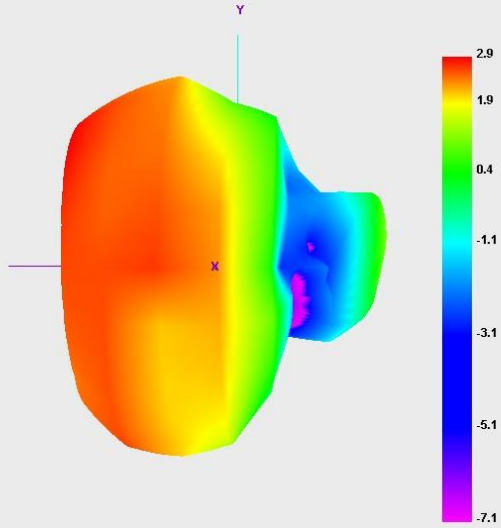
E2 Face

2300.000MHz



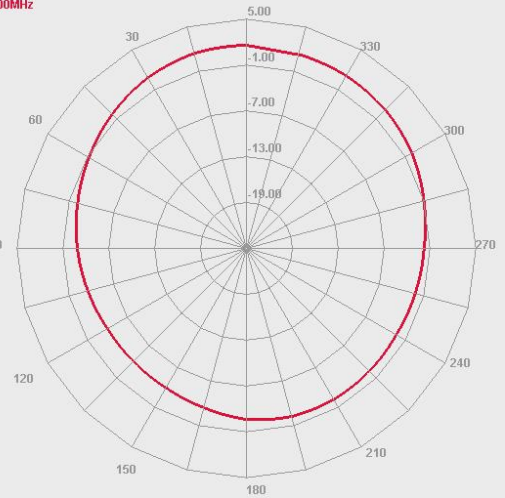


2700.000MHz



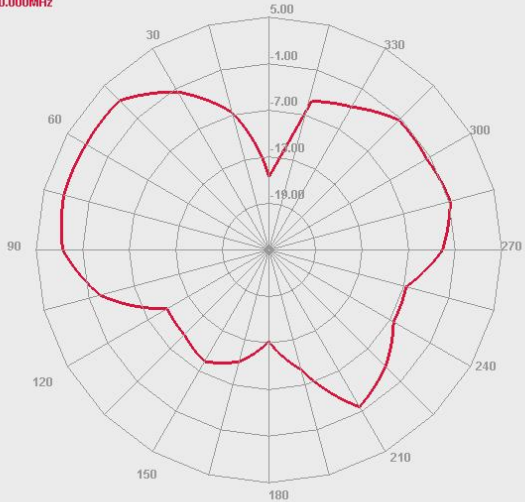
Horizontal

2700.000MHz



E1 Face

2700.000MHz



E2 Face

2700.000MHz

