Word Easy Electronics Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date 2023/03/14

File No 23031401

Revision 1.0

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

Tel:0591-22628085 Fax:0591-22627656

NO.	（Contents）	（Number of Page）	（Page Code）
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9	RoHS（ RoHS Test Report ）	**	**
10	N/A	N/A	N/A

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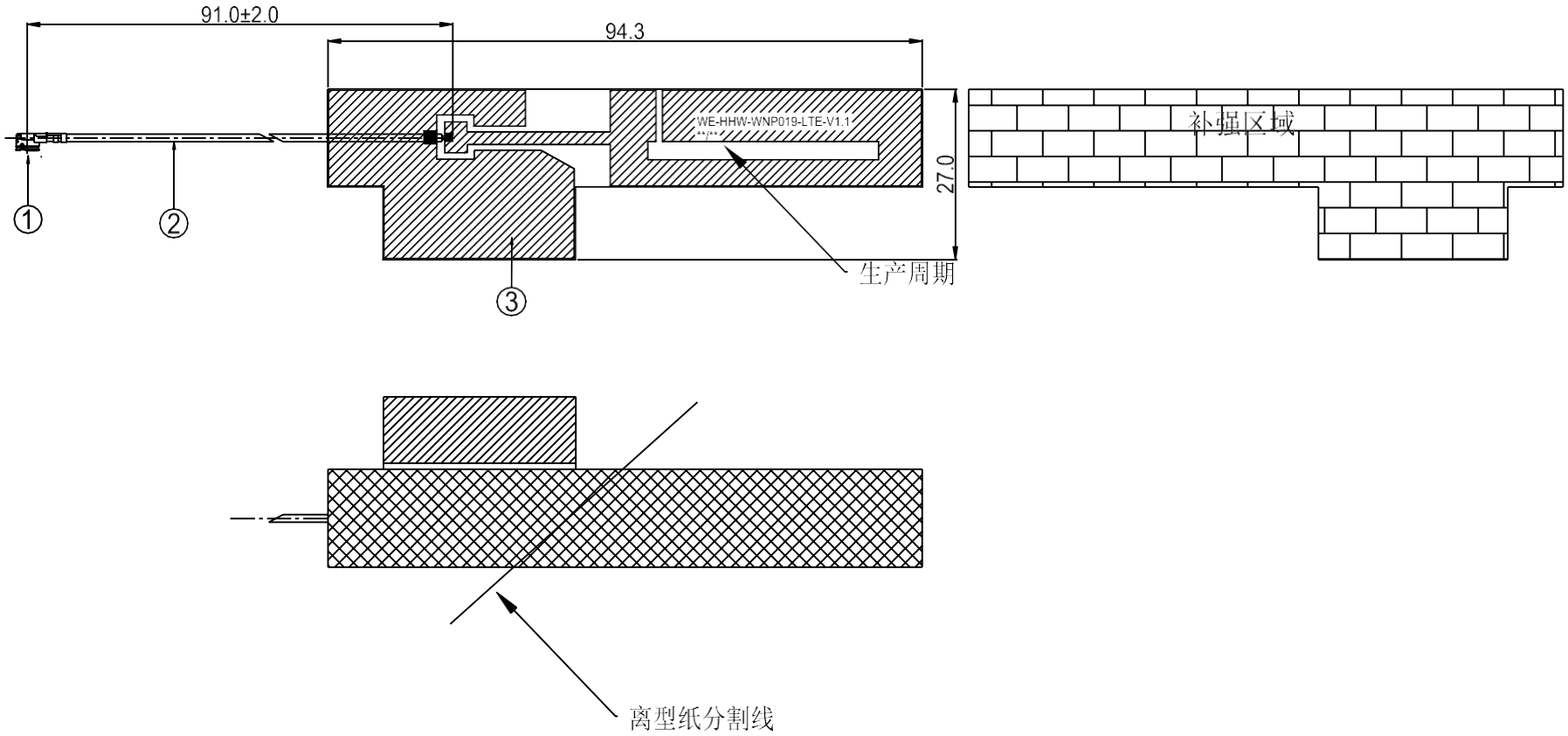
RoHS Compatible

REV.	DESCRIPTION	DATE
A	首次发行	2023.02.17



NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY
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	MFT0XD1.V01	1

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	UNITS: mm SCALE: 1/1 REVISION: A	Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
		周红涛		

RoHS Compatible

包装说明

REV.	DESCRIPTION	DATE
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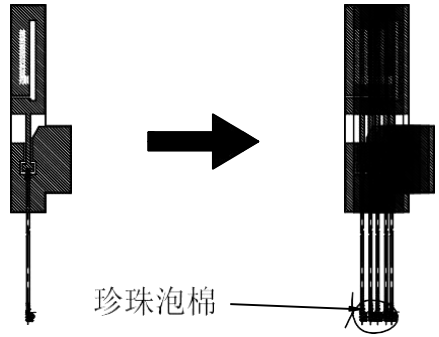

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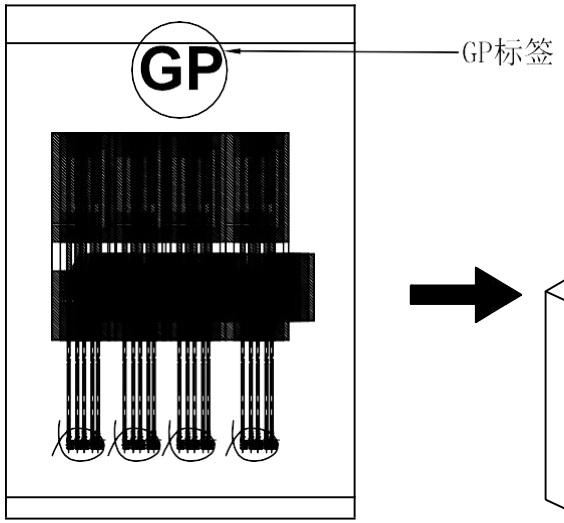

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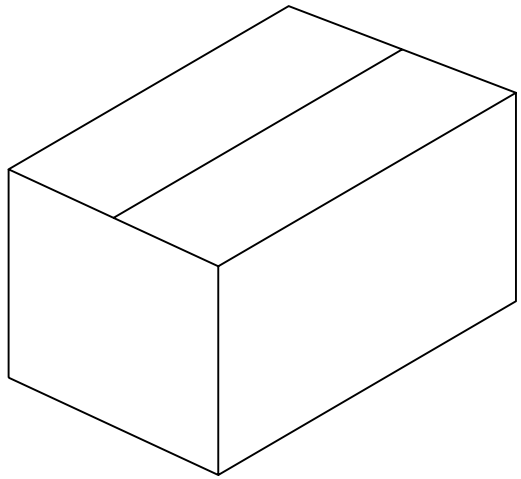

3.每箱根据实际订单而定

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		周红涛		

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

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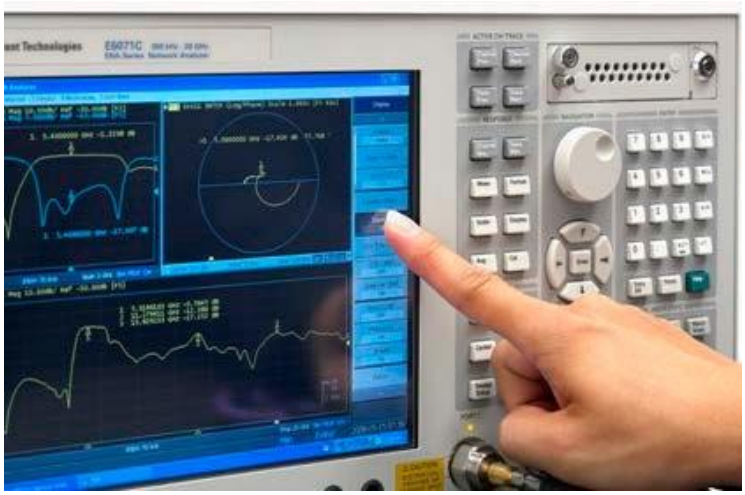
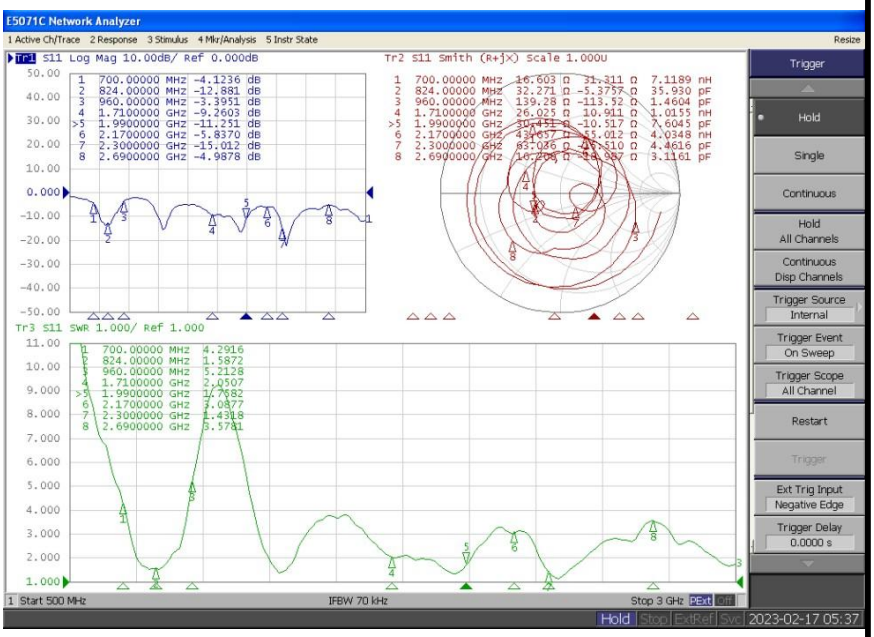
Antenna Performance Test

Agilent E5071C	
S Parameter Test // LTE	

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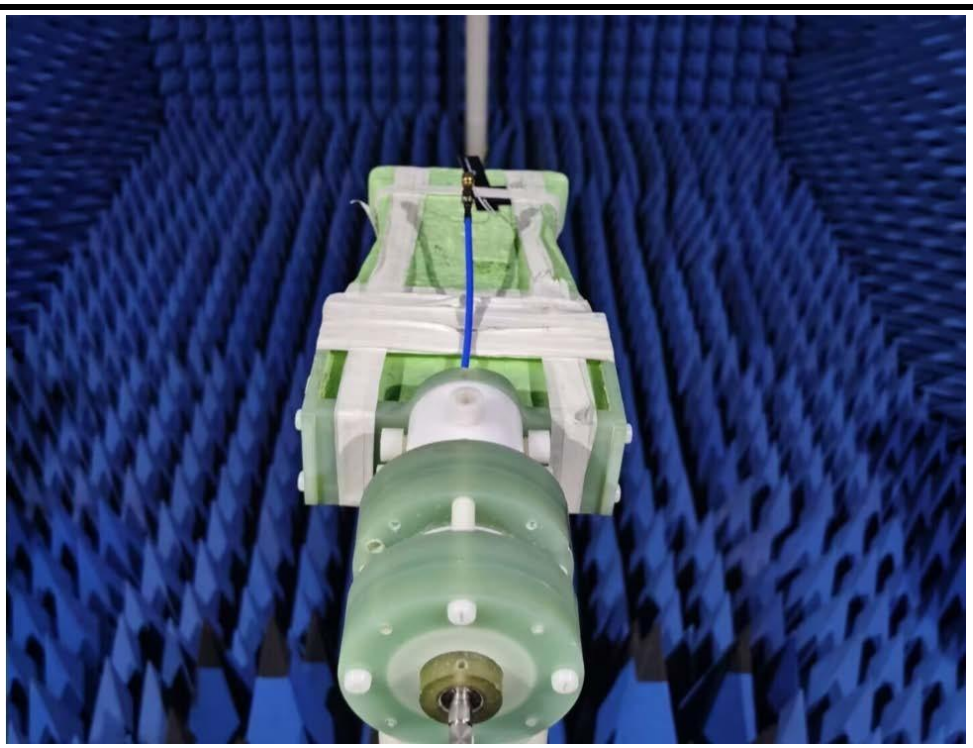
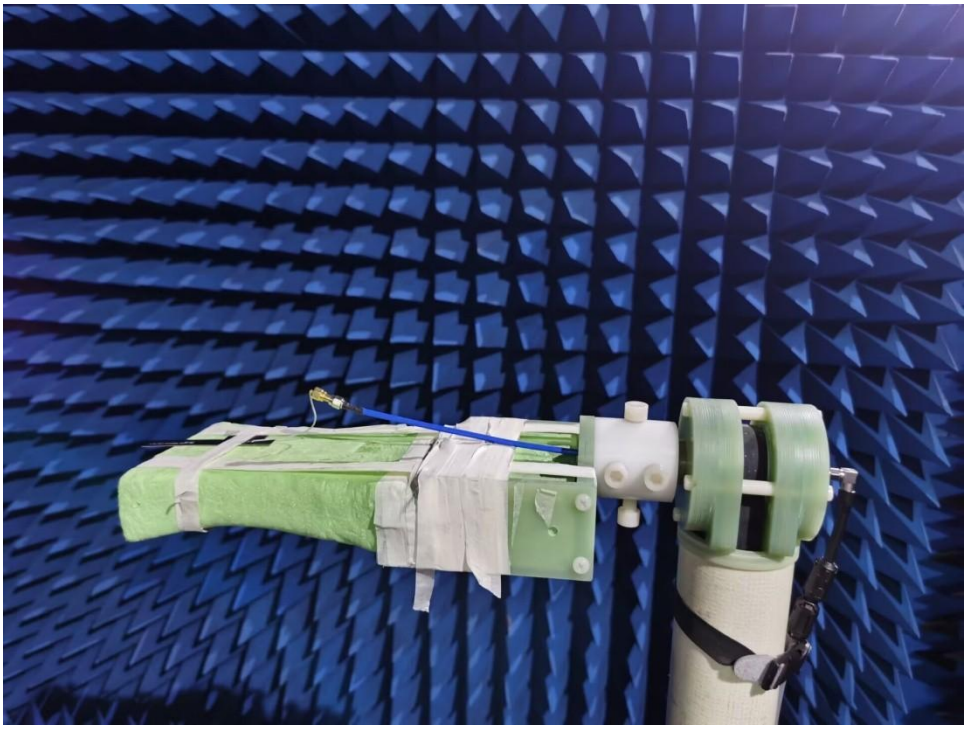
Antenna Passive Test（单天线）





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

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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

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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

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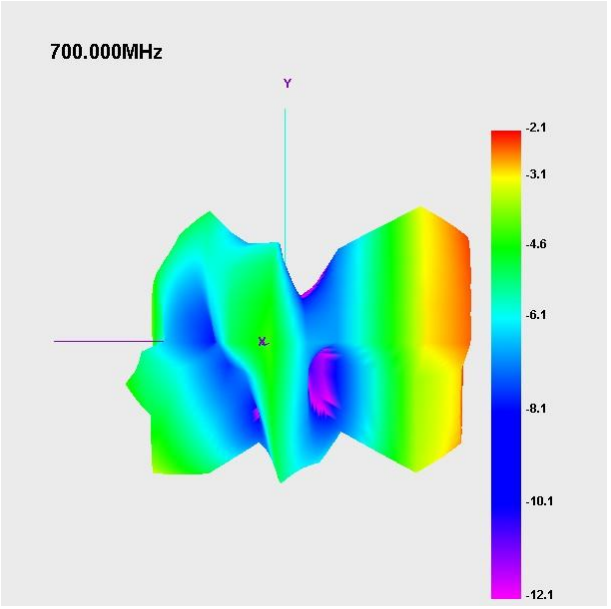
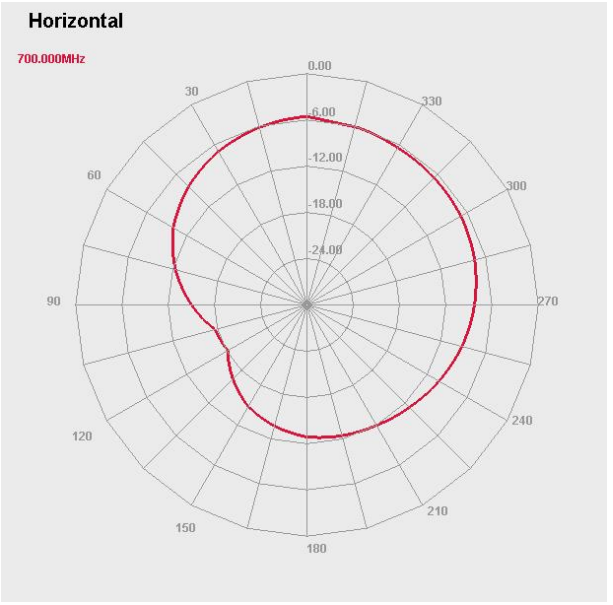
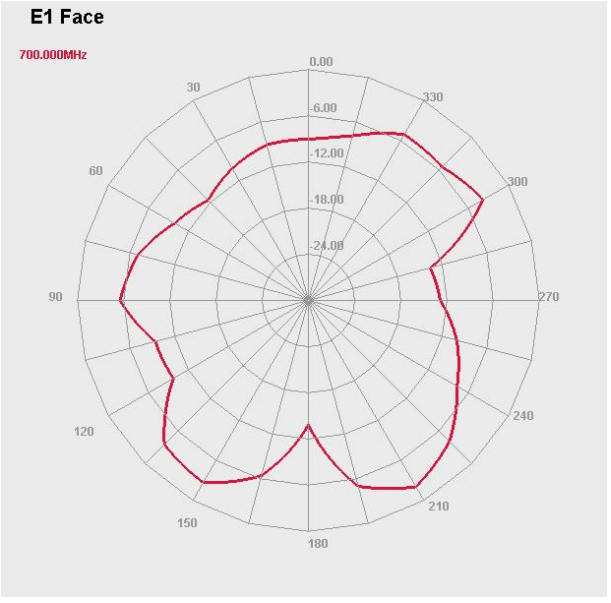
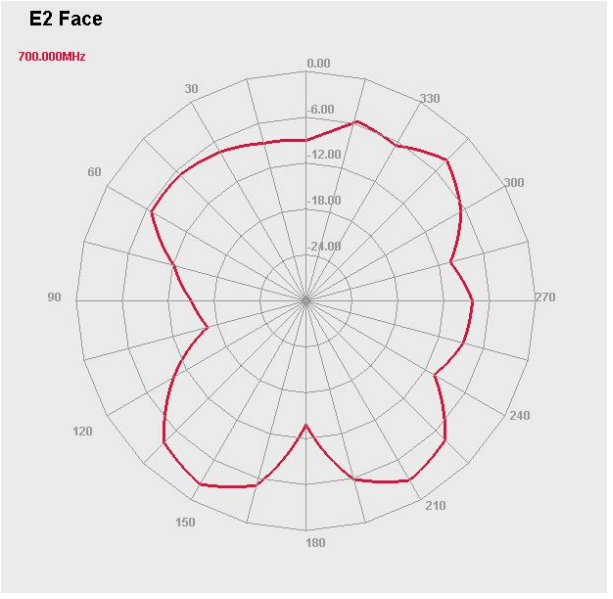
Antenna Radiation Pattern（single ant









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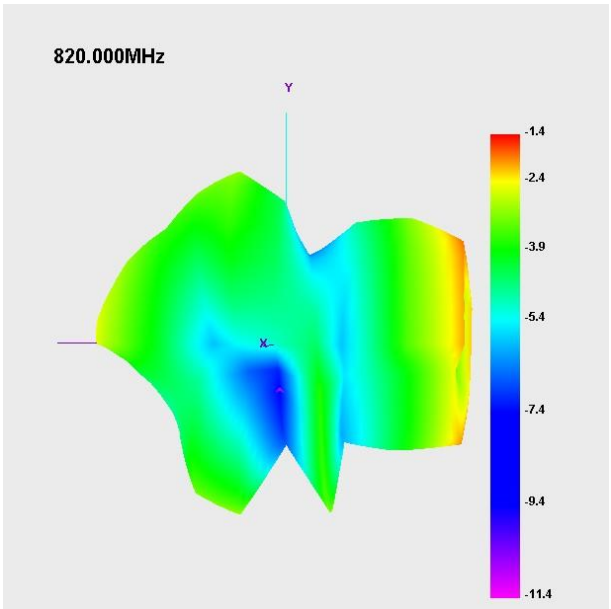

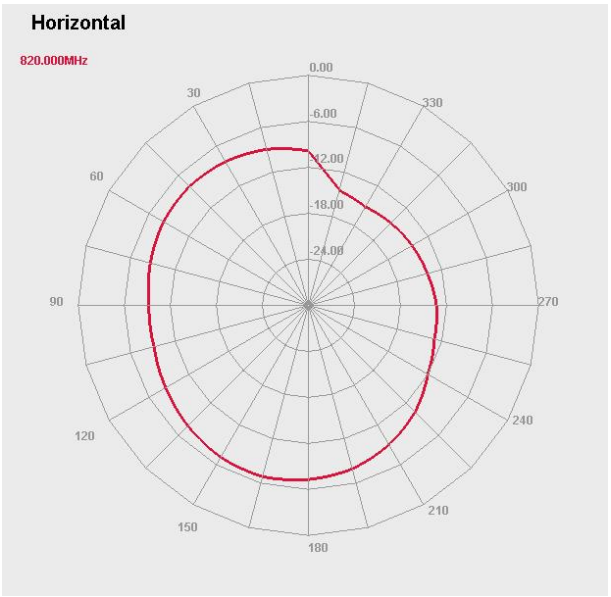

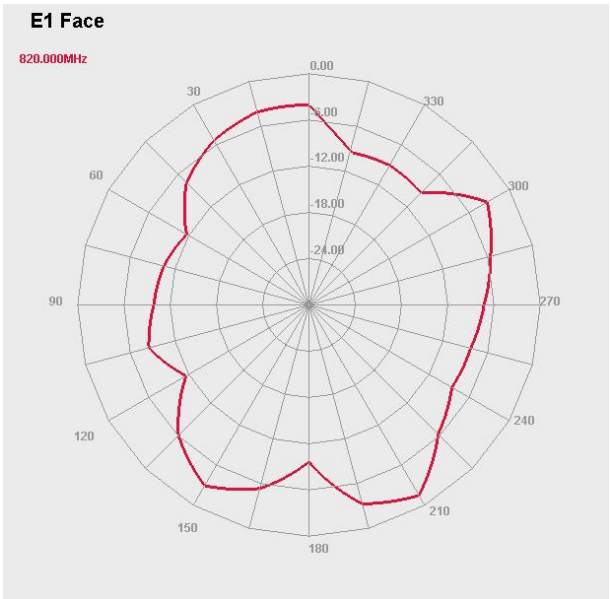

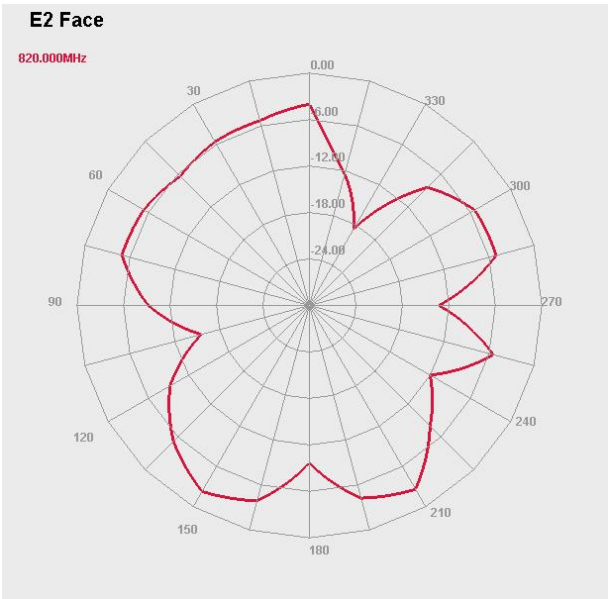

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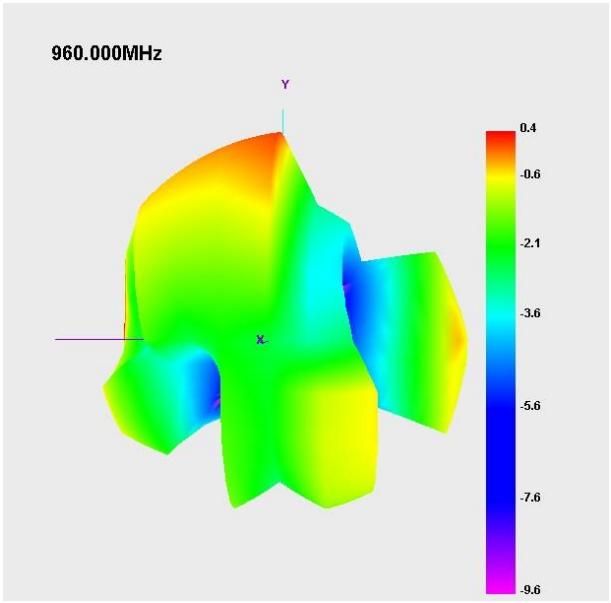

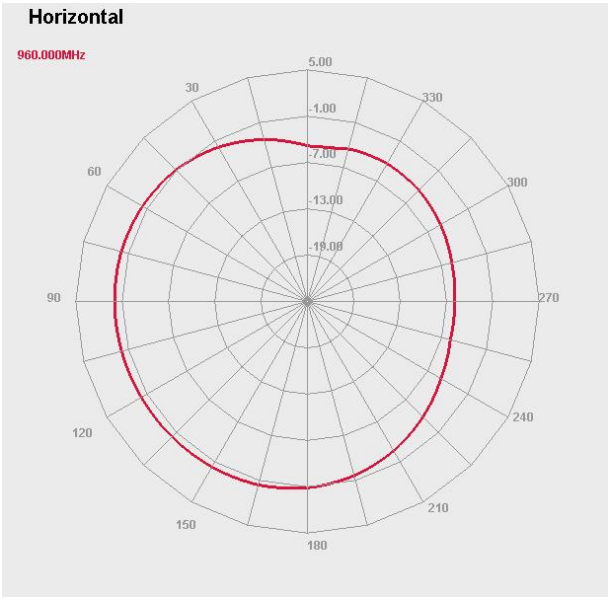

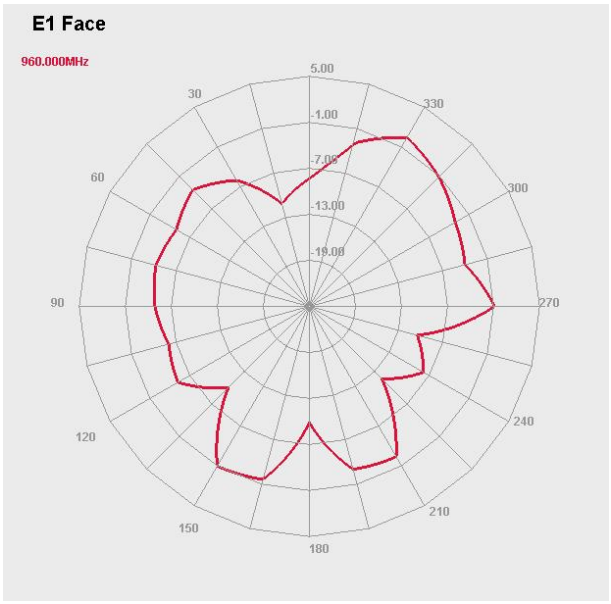

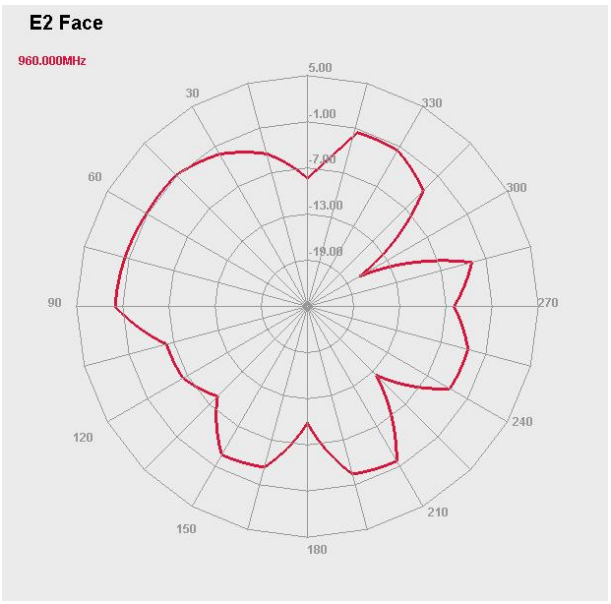

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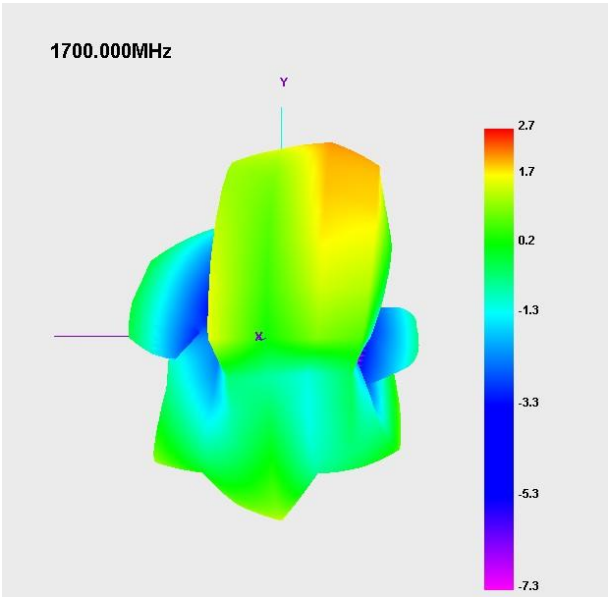

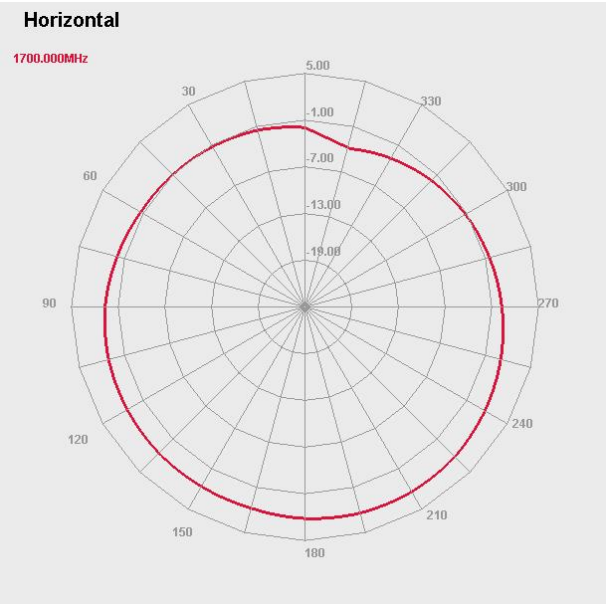

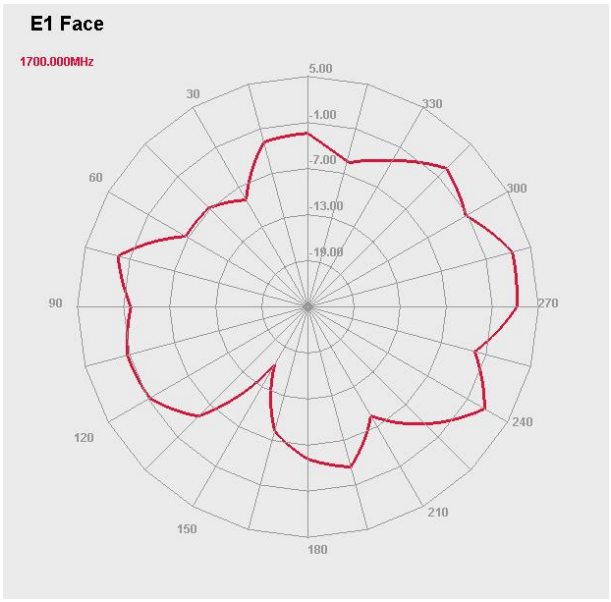

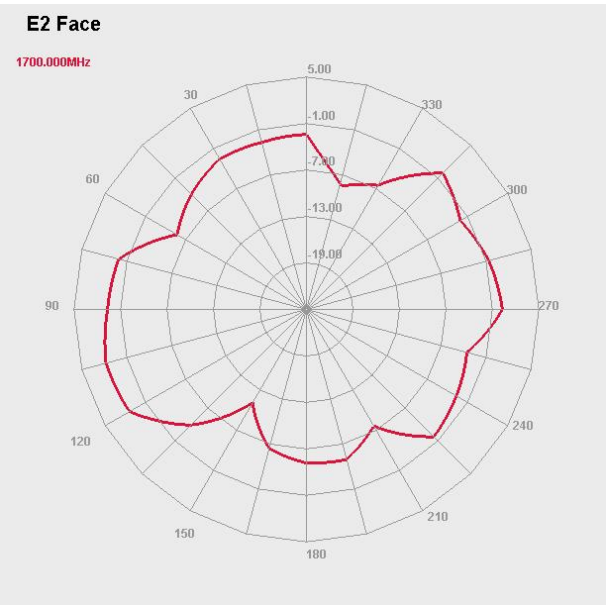

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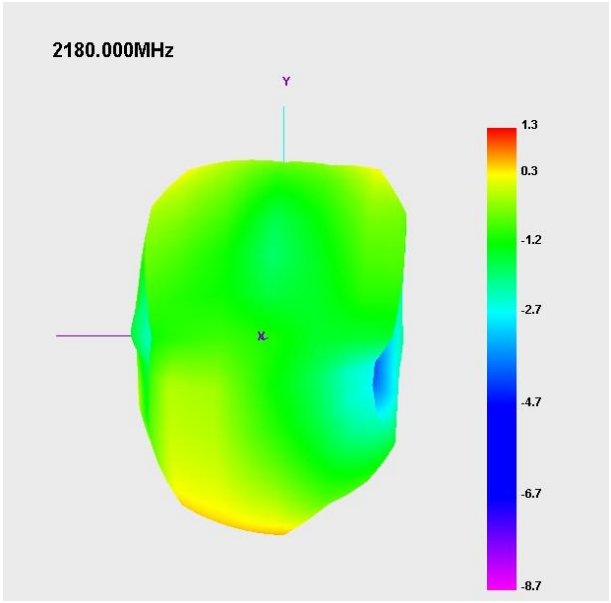

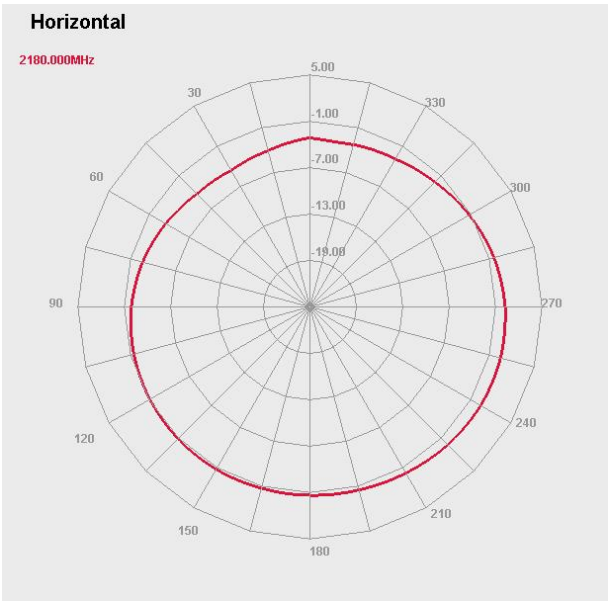

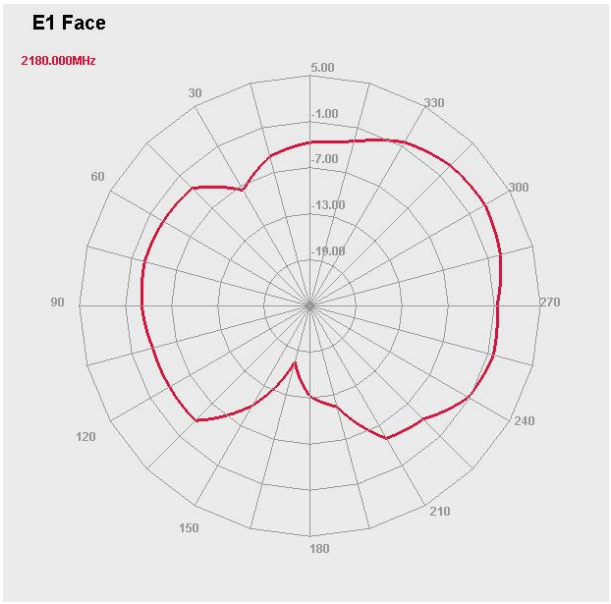

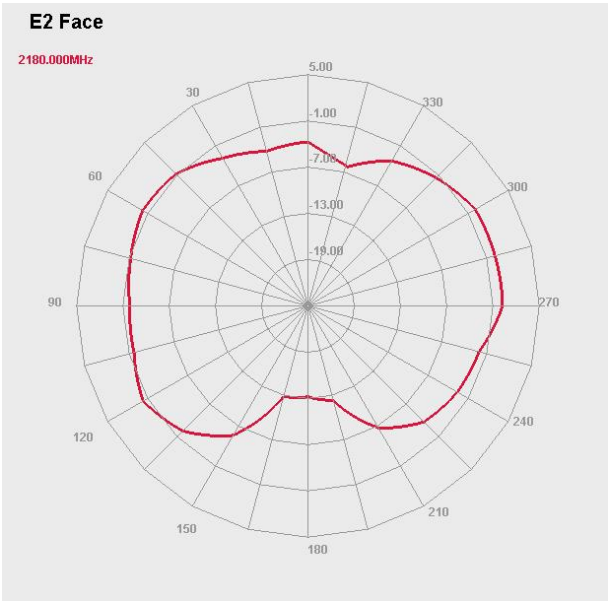

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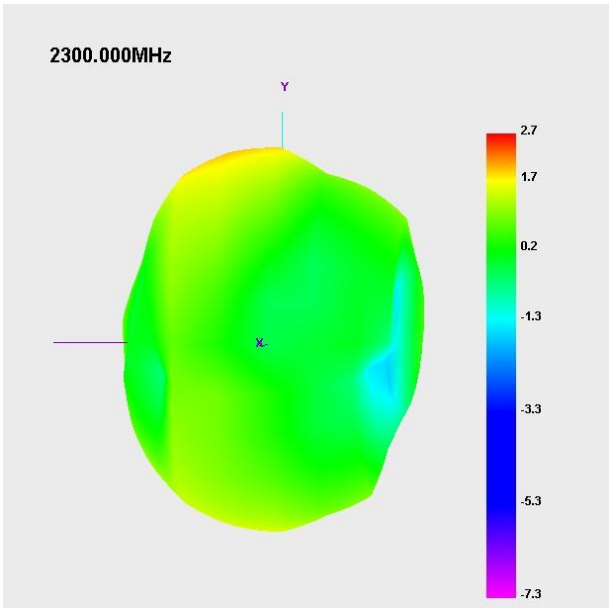

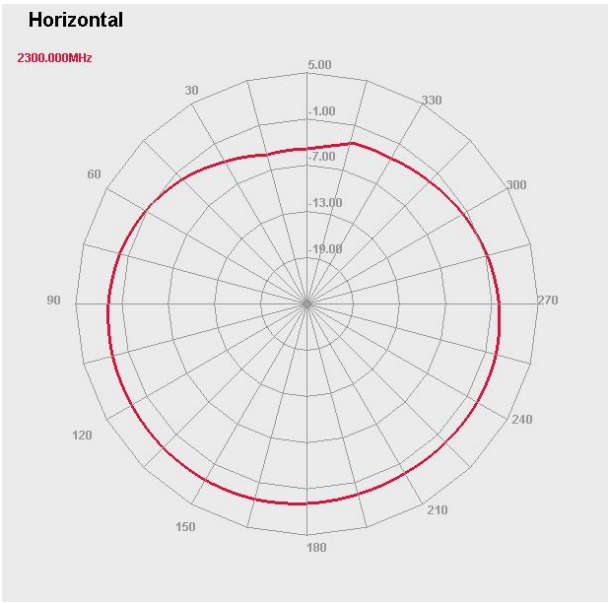

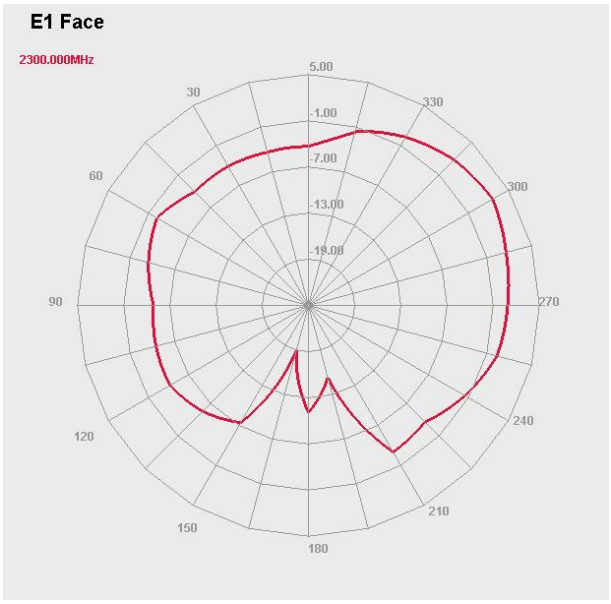

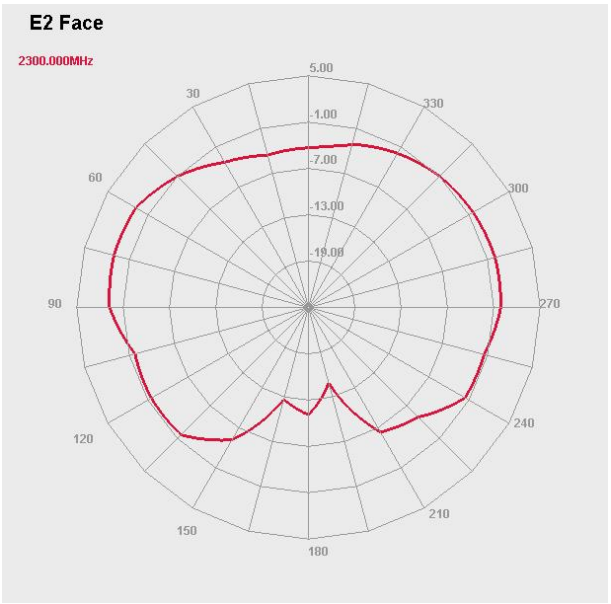

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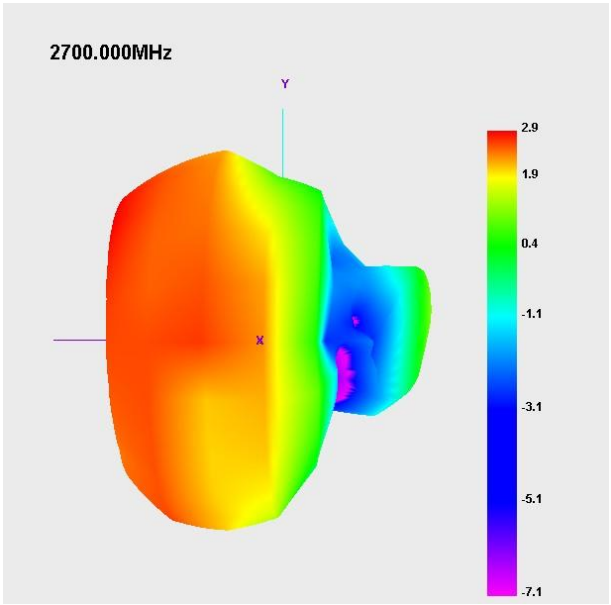

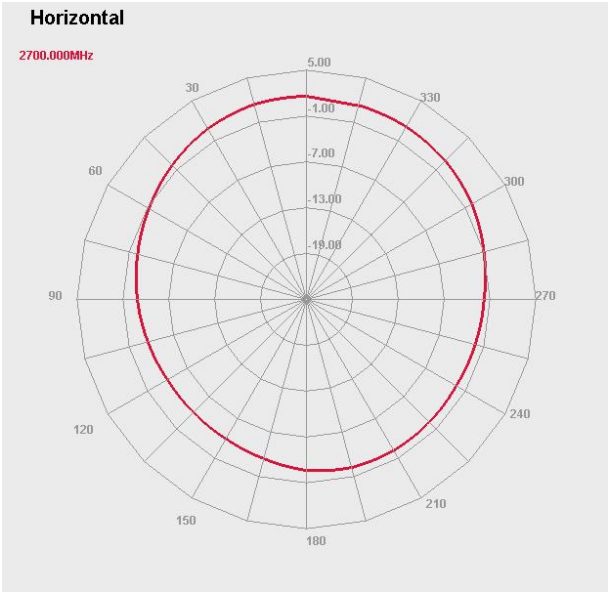

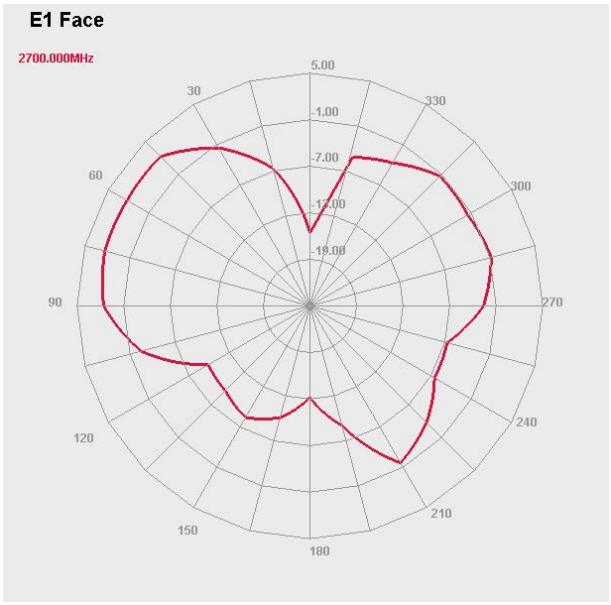

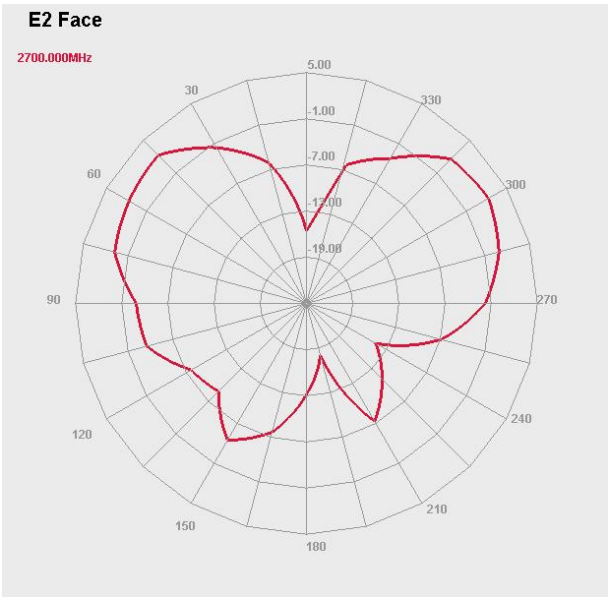

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