



规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2024/10/29
编号 File No	24102901
版本 Revision	1.0

客户
CUSTOMER:

FJ Dynamics

客户料号
CUSTOMER NO:

YTX-TX-003066

品名
PART NAME:

4G MAIN Antenna L=215mm MHF

供方料号
SUPPLIER NO:

YJF01.085.029.301A

送样日期Date:

客户确认CUSTOMER APPROVED BY

送样数量		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi



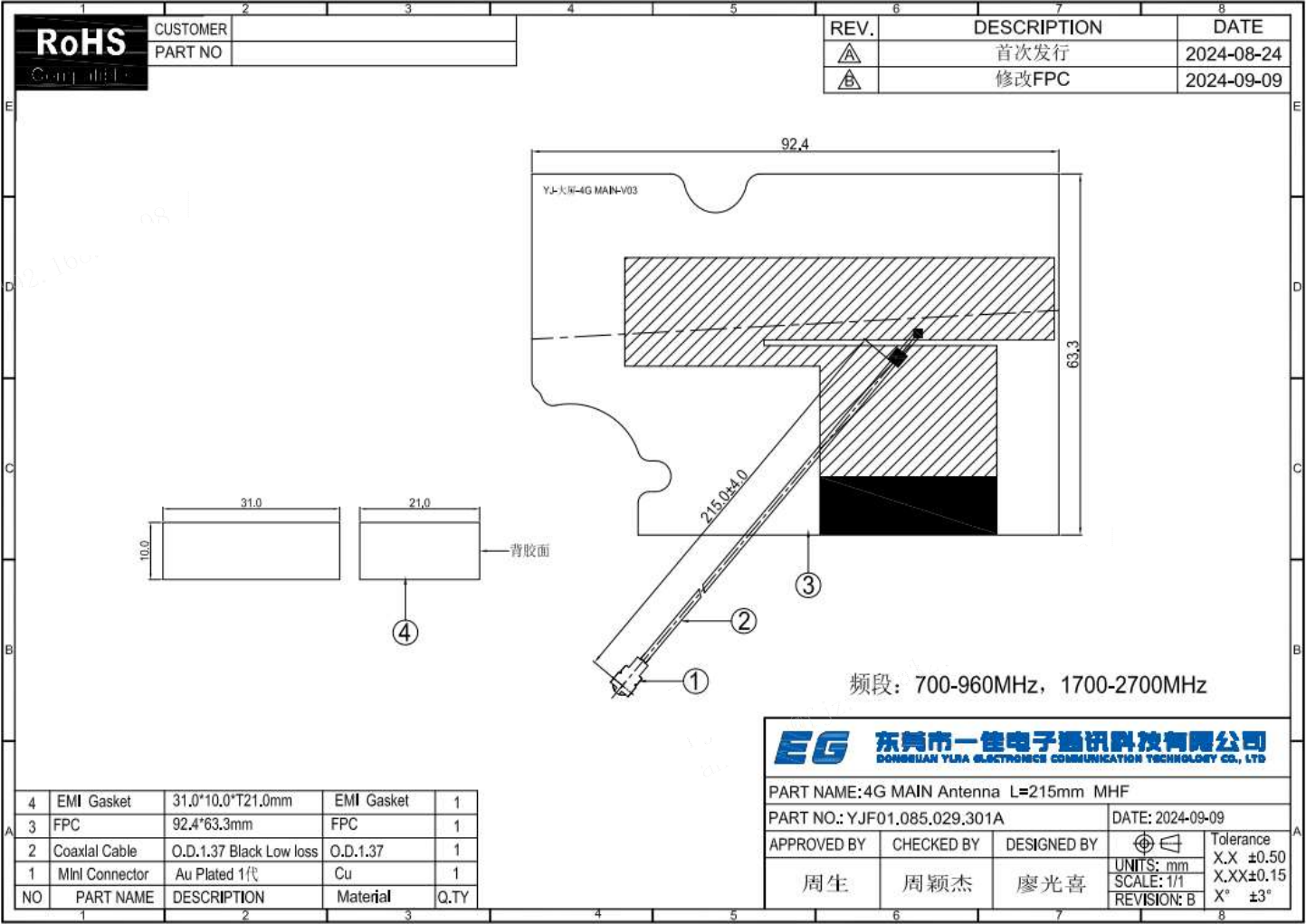


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YJ-4G MAIN-V03

92.4

63.3

21.0

31.0

10.0

215.0±4.0

背胶面

④

③

②

①

频段: 700-960MHz, 1700-2700MHz

EG 东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

PART NAME: 4G MAIN Antenna L=215mm MHF

PART NO.: YJF01.085.029.301A

DATE: 2024-09-09

APPROVED BY

CHECKED BY

DESIGNED BY

周生

周颖杰

廖光喜

UNITS: mm

SCALE: 1/1

REVISION: B

Tolerance

X.X ±0.50

X.XX±0.15

X° ±3°





天线规格
Antenna Specification

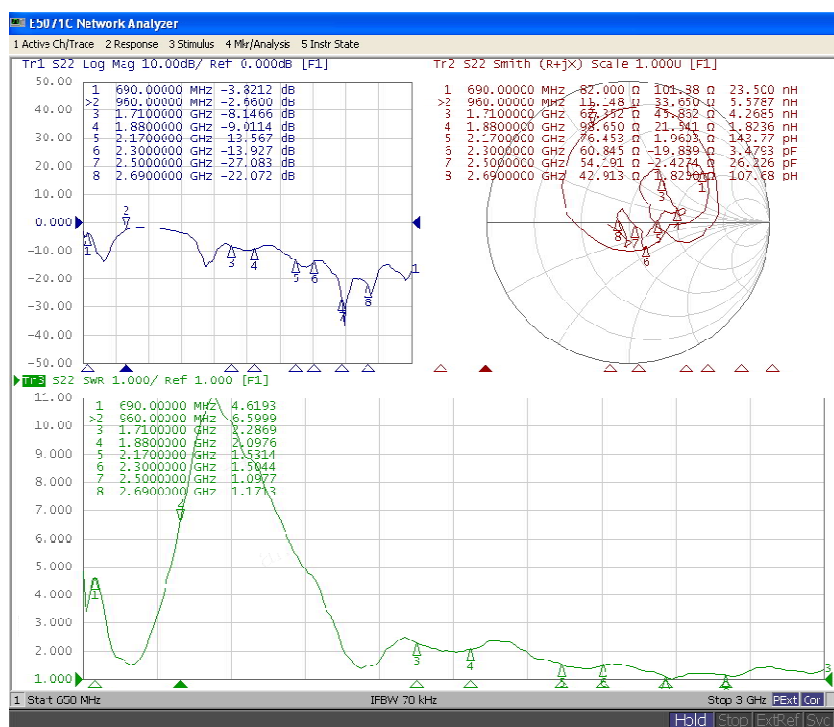
Electrical Properties	
Frequency	700-960MHz 1700-2700MHz
Impedance	50 Ohm Nominal
V.S.W.R	-3.9 Max@700-960MHz 2.1 Max@1700-2700MHz
Gain	1.5 dBi@700-960MHz 3.0 dBi@1700-2700MHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.37mm低损耗
Cable Length	215mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%





东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

Agilent E5071C S Parameter Test // LTE Main Antenna

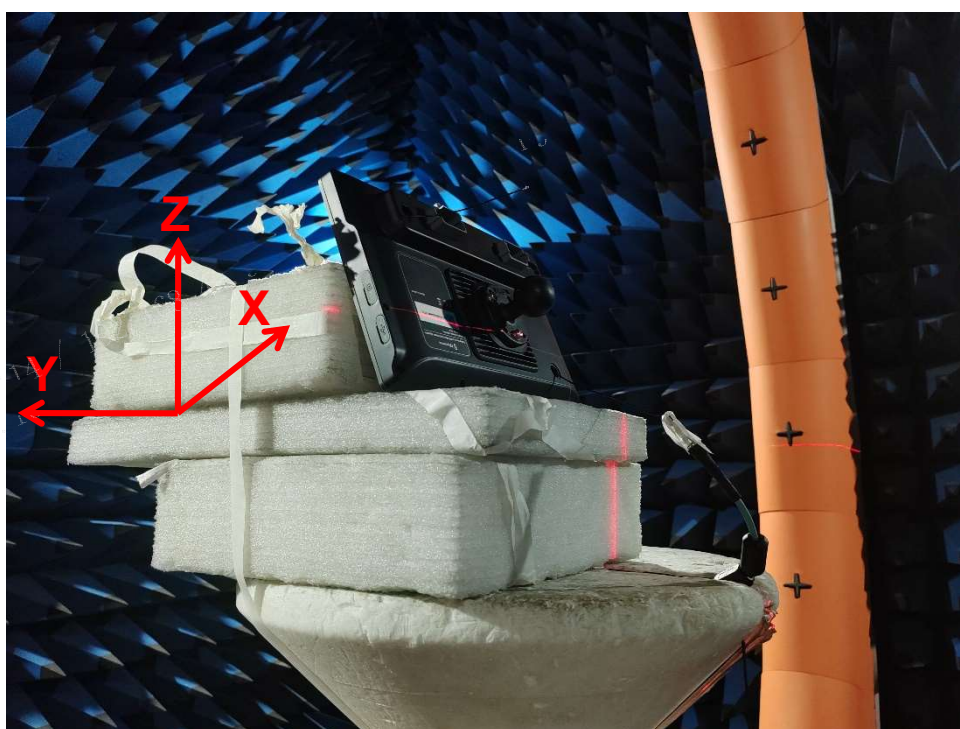
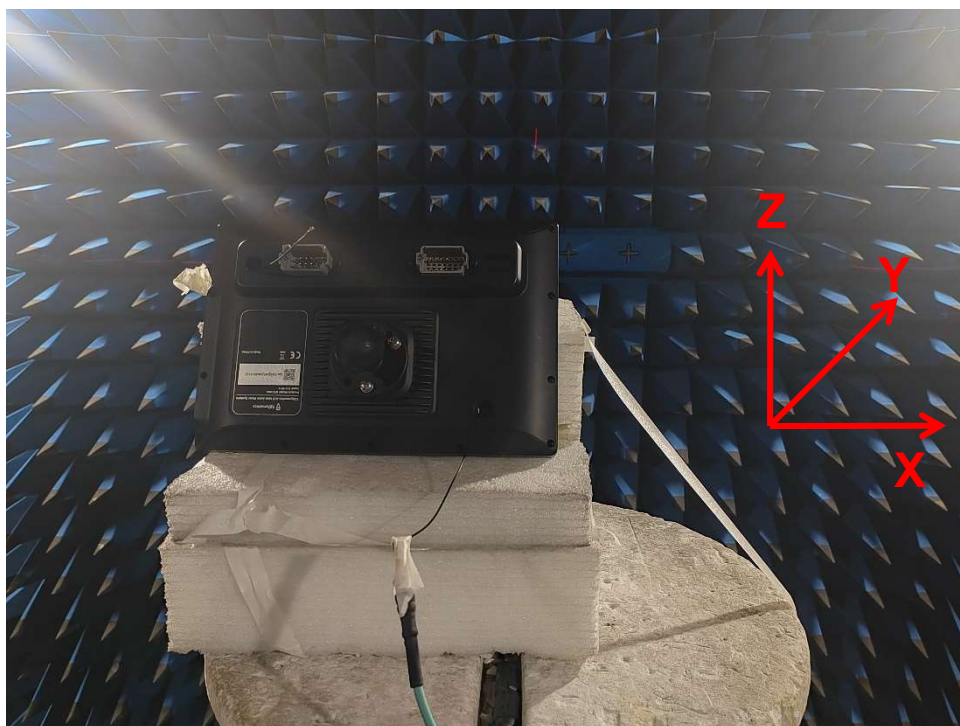


东莞市长安镇沙头社区木鱼路59号 Tel:0769-82586086 Fax:0769-82586086
No.59 Muyu Road, Shatou Community, Chang'an Town, Dongguan City



东莞市一佳电子通讯科技有限公司
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Antenna Passive Test



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Passive Test For LTE Main Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
690	23.4	-6.3	-2.5
700	25.0	-6.0	-1.8
710	26.7	-5.7	-1.4
720	28.3	-5.5	-1.6
730	30.9	-5.1	-1.1
740	33.7	-4.7	-0.2
750	38.2	-4.2	1.1
760	40.4	-3.9	1.5
770	40.8	-3.9	1.3
780	40.1	-4.0	1.1
790	39.7	-4.0	0.7
800	38.7	-4.1	0.0
810	40.2	-4.0	0.8
820	39.7	-4.0	1.4





Passive Test For LTE Main Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
830	39.0	-4.1	1.5
840	37.7	-4.2	0.7
850	36.6	-4.4	0.0
860	34.3	-4.7	-0.7
870	31.8	-5.0	-1.0
880	30.5	-5.2	-1.2
890	28.5	-5.5	-1.6
900	27.8	-5.6	-1.6
910	27.5	-5.6	-1.5
920	28.5	-5.5	-0.9
930	28.3	-5.5	-0.5
940	28.3	-5.5	-0.4
950	26.1	-5.8	-0.8
960	23.3	-6.3	-1.4





Passive Test For LTE Main Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1700	57.5	-2.4	2.9
1720	59.0	-2.3	2.8
1740	56.1	-2.5	2.6
1760	55.5	-2.6	2.5
1780	55.6	-2.6	2.6
1800	58.2	-2.4	2.8
1820	59.4	-2.3	2.6
1840	56.2	-2.5	2.7
1860	54.5	-2.6	2.8
1880	50.0	-3.0	2.9
1900	52.1	-2.8	2.7
1920	53.3	-2.7	2.9
1940	49.6	-3.1	2.8
1960	49.8	-3.0	2.6





Passive Test For LTE Main Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1980	49.2	-3.1	2.8
2000	49.3	-3.1	2.7
2020	50.7	-3.0	2.6
2040	54.5	-2.6	2.7
2060	55.0	-2.6	2.8
2080	56.2	-2.5	2.9
2100	55.3	-2.6	2.3
2120	54.5	-2.6	1.7
2140	54.6	-2.6	1.6
2160	57.0	-2.4	1.8
2180	60.3	-2.2	2.0





Passive Test For LTE Main Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2300	61.1	-2.1	2.7
2320	59.8	-2.2	2.9
2340	60.4	-2.2	2.9
2360	61.1	-2.1	2.9
2380	61.2	-2.1	3.0
2400	60.7	-2.2	2.9
2420	60.4	-2.2	2.8
2440	61.9	-2.1	2.9
2460	61.7	-2.1	2.9
2480	58.1	-2.4	2.5
2500	55.0	-2.6	2.4



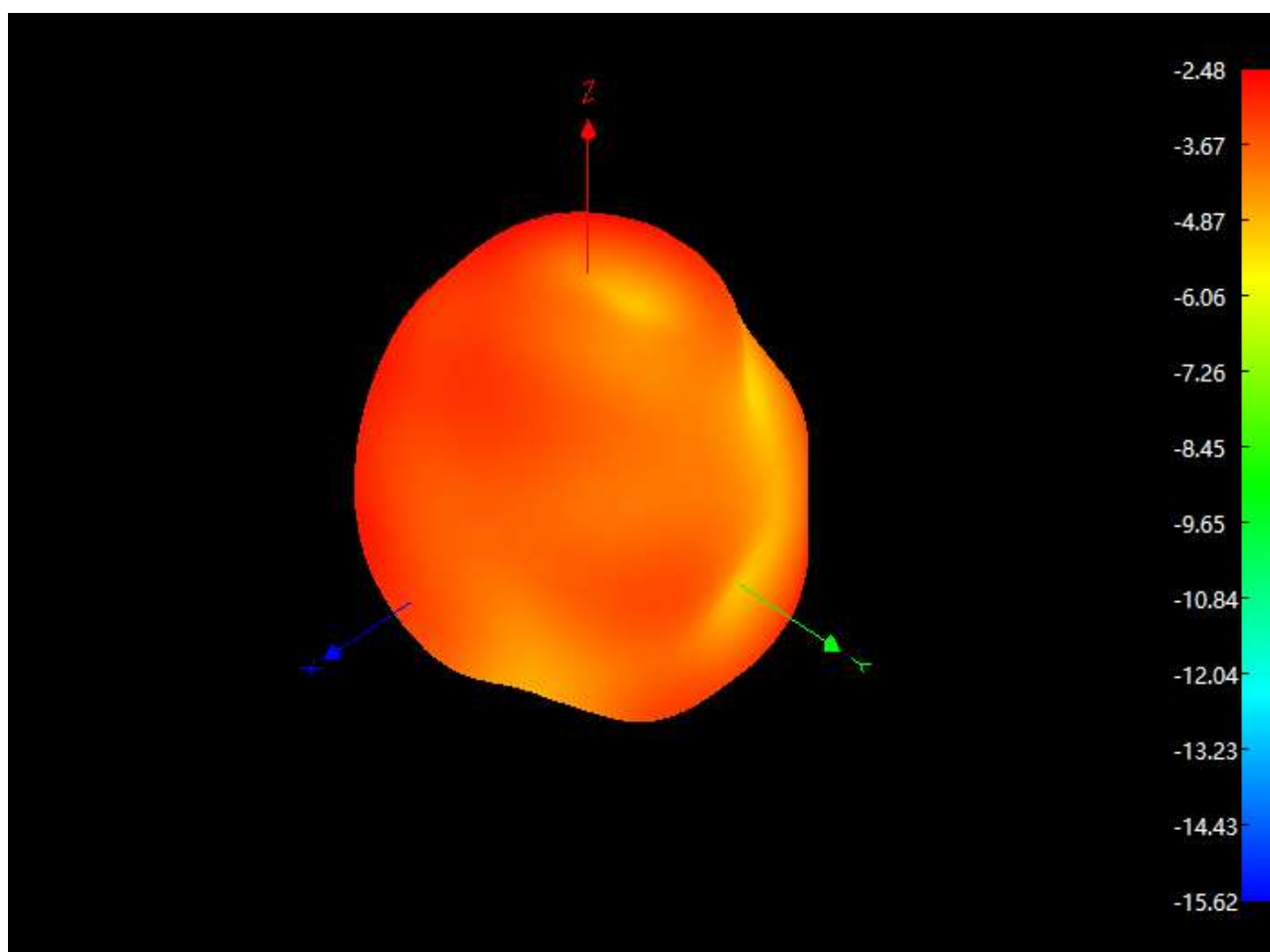


Passive Test For LTE Main Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2520	55.0	-2.6	2.8
2540	57.0	-2.4	2.9
2560	58.2	-2.4	2.8
2580	56.5	-2.5	2.5
2600	55.9	-2.5	2.5
2620	57.0	-2.4	2.8
2640	56.5	-2.5	2.7
2660	54.5	-2.6	2.4
2680	55.3	-2.6	2.3
2700	56.4	-2.5	2.5



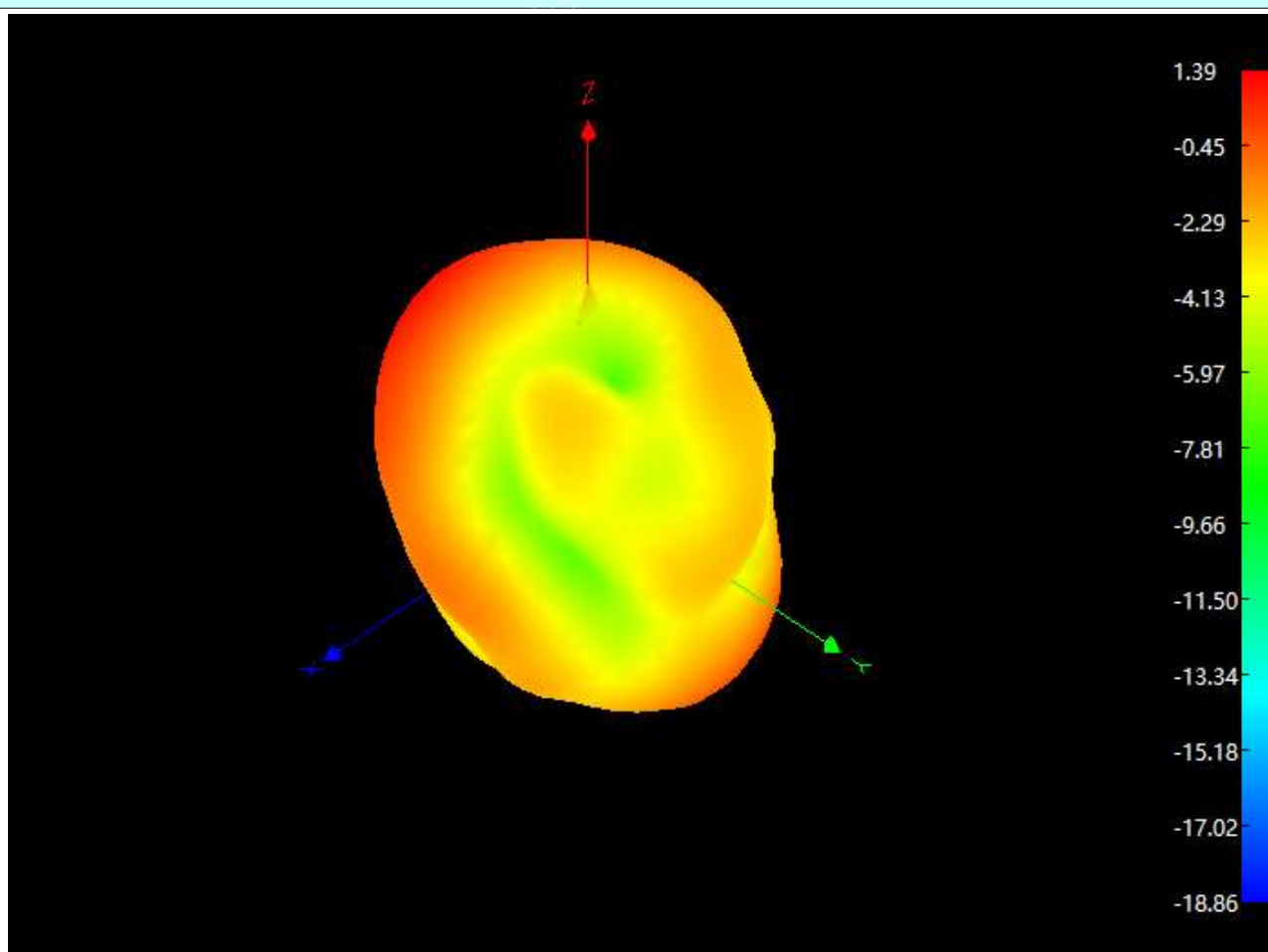


Radiation Pattern For LTE Main Antenna (690MHz)





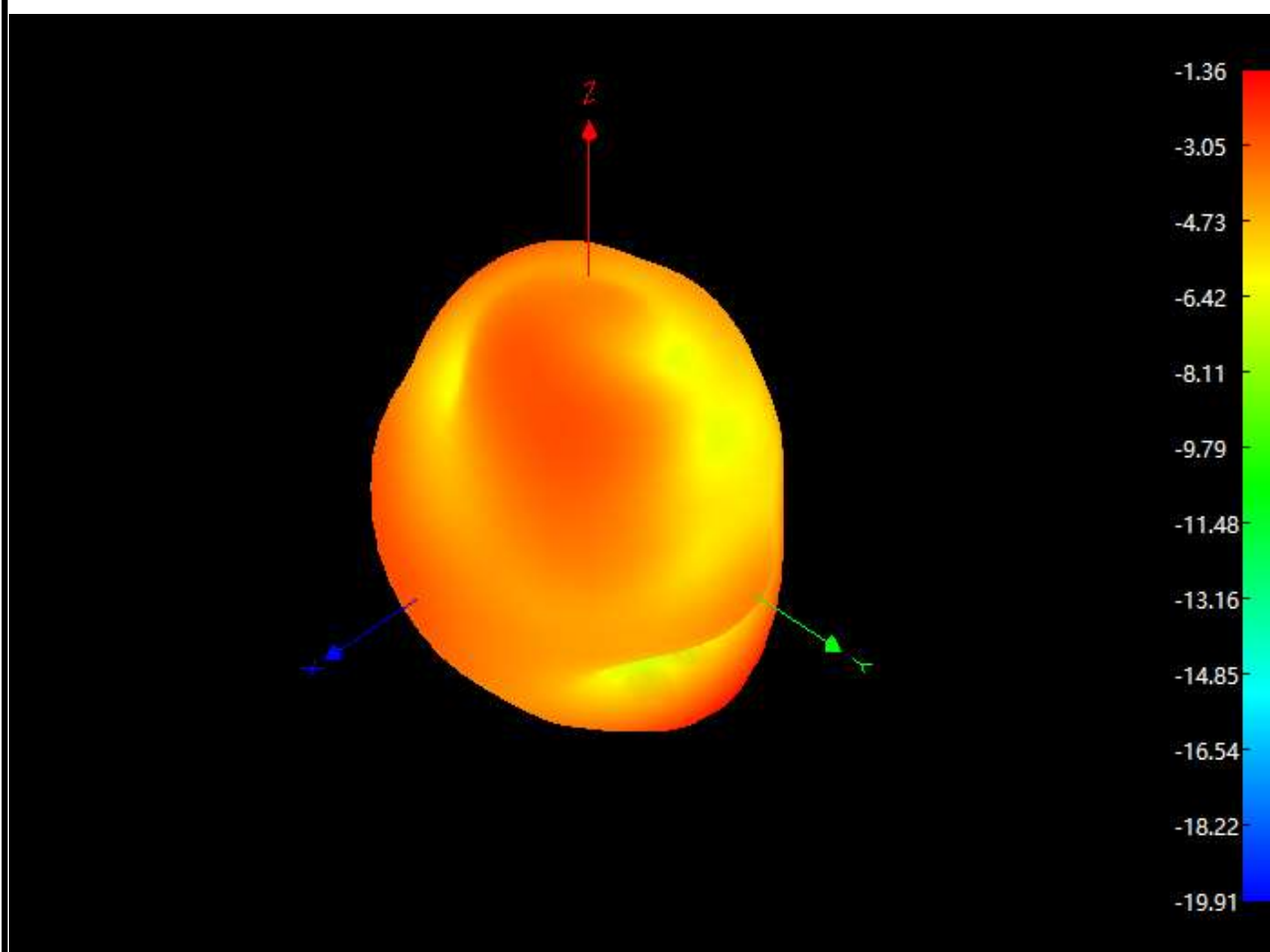
Radiation Pattern For LTE Main Antenna (820MHz)





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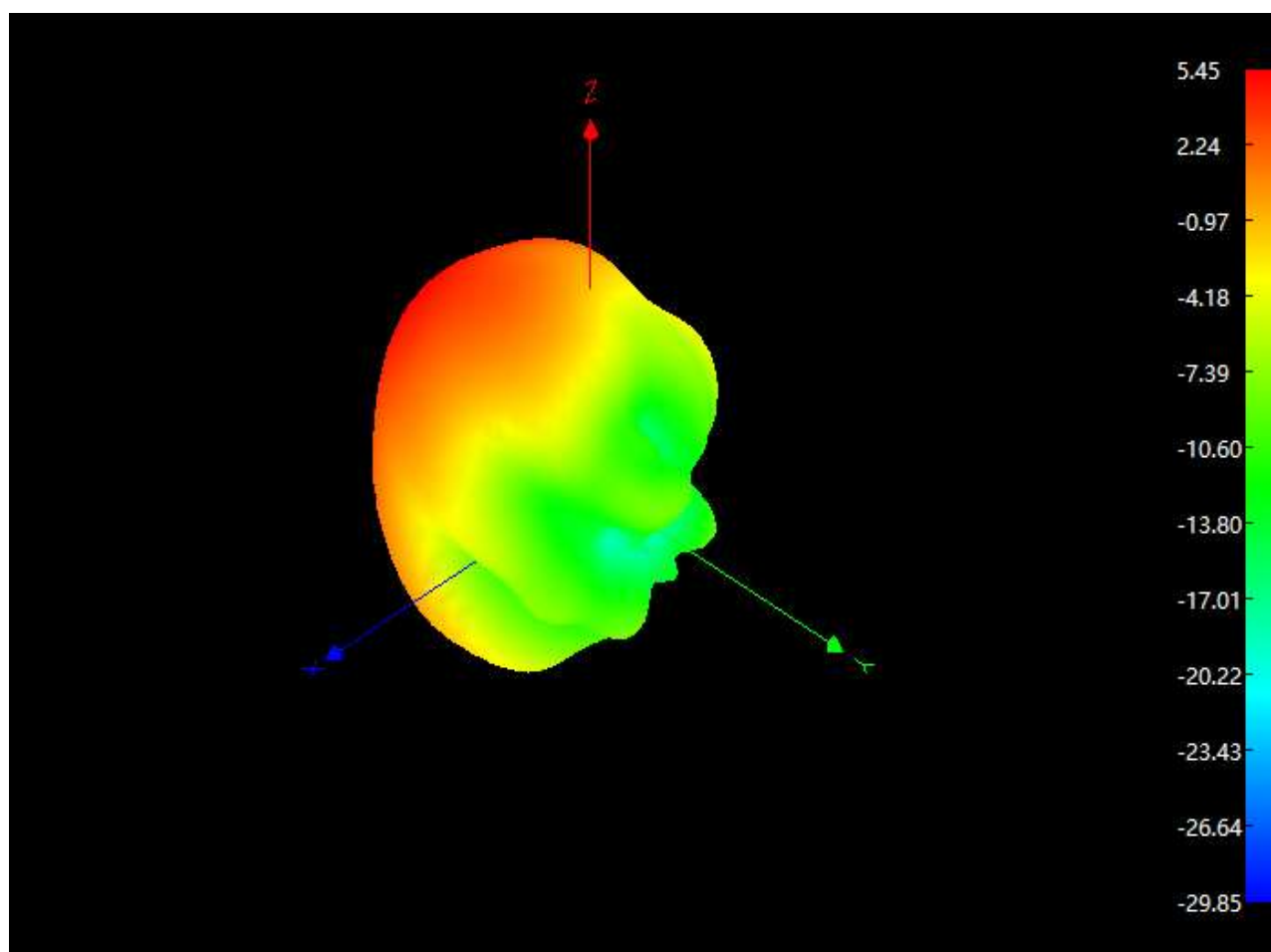
Radiation Pattern For LTE Main Antenna (960MHz)



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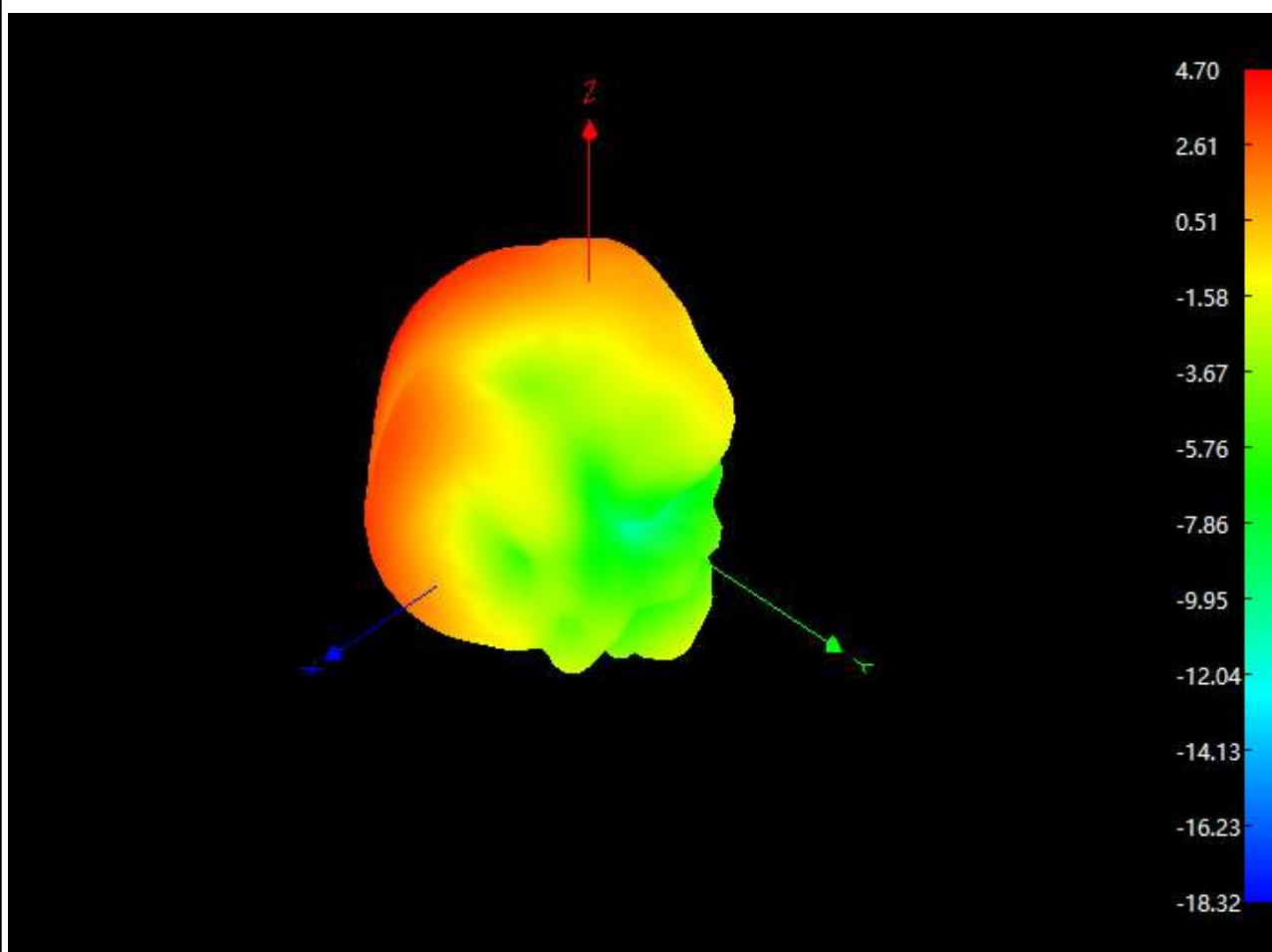


Radiation Pattern For LTE Main Antenna (1700MHz)





Radiation Pattern For LTE Main Antenna (2300MHz)





Radiation Pattern For LTE Main Antenna (2700MHz)

