

B.1.01.Y.1016 Specification

1. Explanation of part number :

B.1 : **01** : **Y** : **1016**
 (1) (2) (3) (4)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) State : DVT

(4) Serial number:1016

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI	1575.42Mhz , 2400-2500Mhz,5150-5850Mhz

2-2. Impedance


50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

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SCALE :

UNIT : mm

DRAWN BY : 曾传新

CHECKED BY : 郑由强

DESIGNED BY : 谢广权

APPROVED BY: 周振邦

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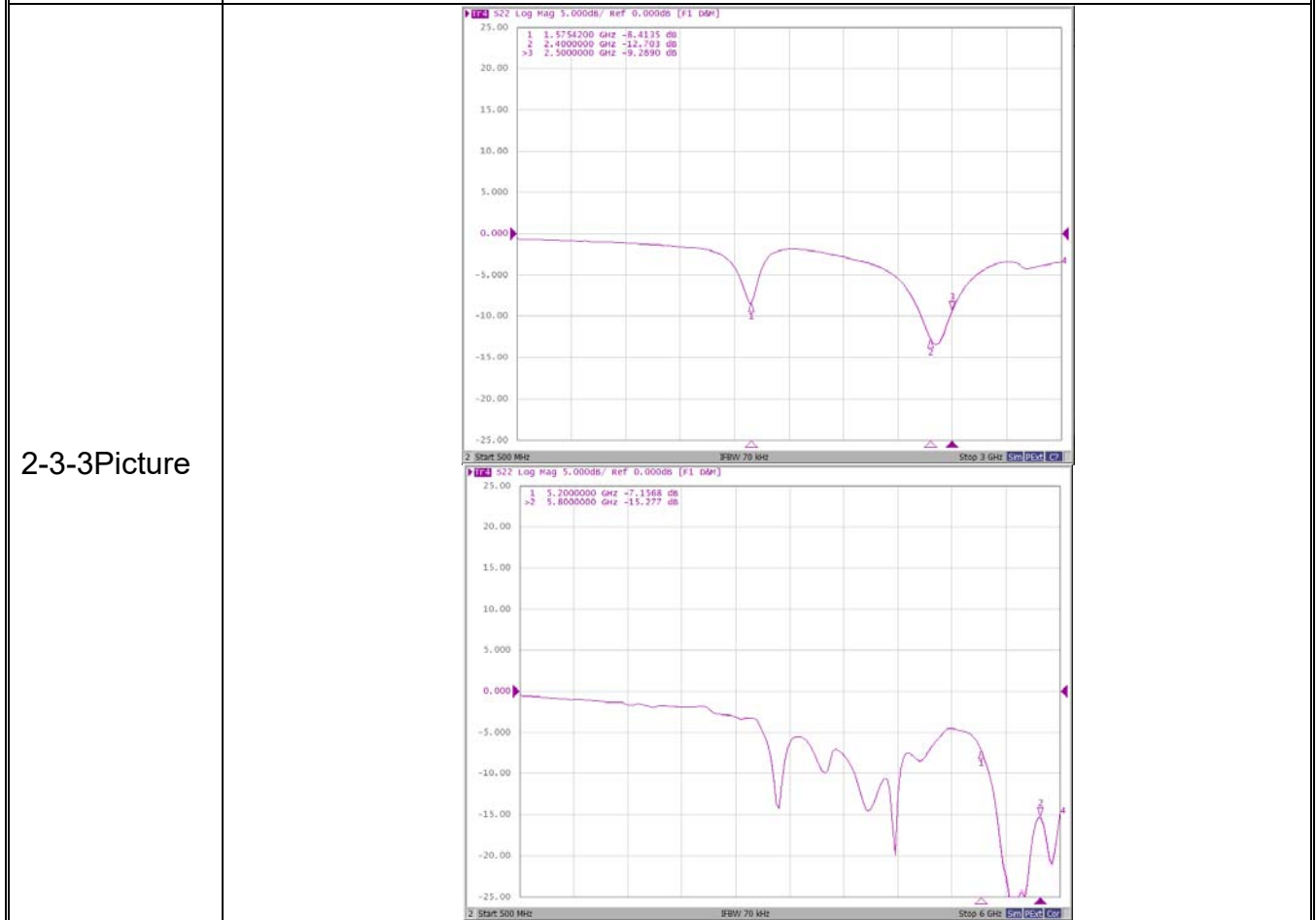
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2-3. S11 ,Efficiency , and Active Data :

2-3.1 S11:

Frequency Band	1575.42	2400	2500	5200	5800
2-3-1. Typical Value:	-8.4	-12.7	-9.2	-7.1	-15.2

2-3-2 Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω coaxial cable is connected to the pcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.
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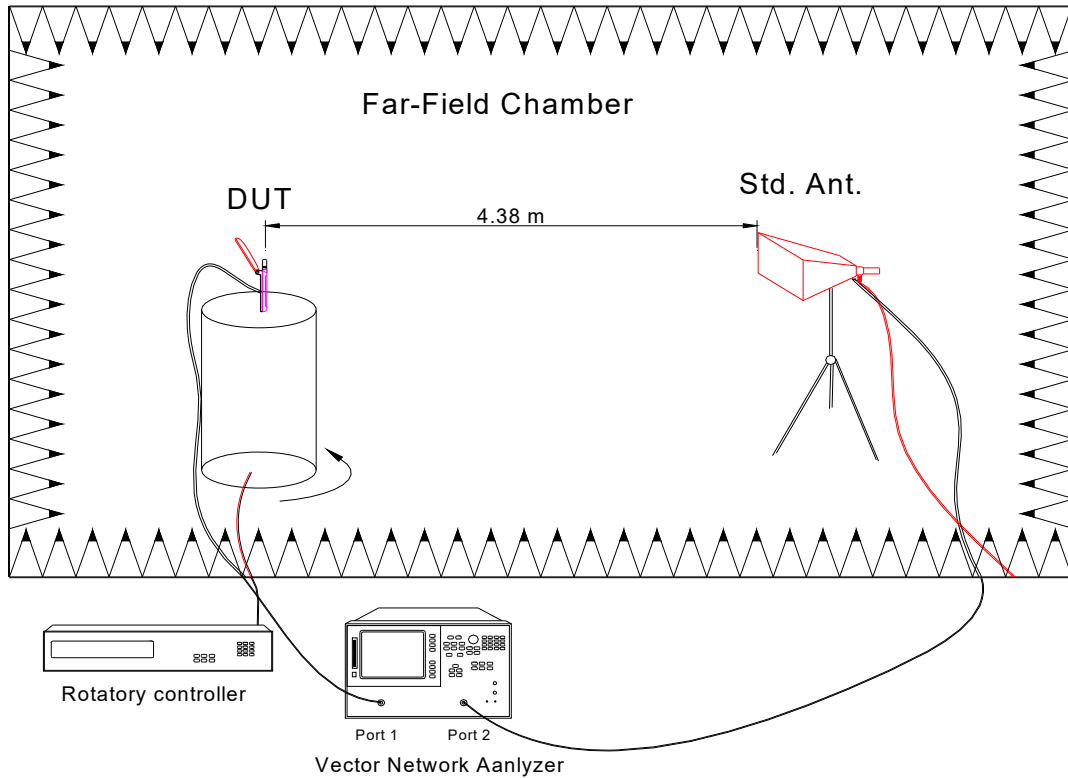
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2-4. Measure and Chamber

2-4-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

2-4-2 Chamber definition



1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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2-4-3 Antenna Efficiency

Frequency	Efficiency	Efficiency (dB)	Gain (dBi)
1550	22%	-6.6	-2.1
1555	23%	-6.4	-1.8
1560	24%	-6.2	-1.6
1565	25%	-6.0	-1.4
1570	26%	-5.9	-1.1
1575	26%	-5.8	-1.0
1580	27%	-5.7	-0.9
1585	27%	-5.6	-0.9
1590	27%	-5.6	-0.8
1595	28%	-5.6	-0.8
1600	28%	-5.6	-0.7
2400	30%	-5.2	-1.5
2410	32%	-5.0	-1.5
2420	33%	-4.8	-1.5
2430	33%	-4.8	-1.6
2440	33%	-4.8	-1.6
2450	33%	-4.8	-1.6
2460	32%	-4.9	-1.7
2470	31%	-5.1	-1.7
2480	30%	-5.2	-1.7
2490	30%	-5.3	-1.8
2500	29%	-5.4	-2.0

UNLESS OTHER SPECIFIED TOLERANCES ON :
 $X = \pm 2$ $X.X = \pm 0.1$ $X.XX = \pm 0.05$

ANGLES = \pm

HOLEDIA = \pm

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Frequency	Efficiency	Efficiency (dB)	Gain (dBi)
5100	16%	-8.1	-0.4
5120	18%	-7.4	0.3
5140	19%	-7.2	0.9
5160	21%	-6.7	0.1
5180	24%	-6.1	0.9
5200	25%	-6.0	0.2
5220	26%	-5.8	0.7
5240	28%	-5.6	0.7
5260	28%	-5.5	0.7
5280	28%	-5.5	0.3
5300	29%	-5.4	0.5
5320	30%	-5.2	1.0
5340	31%	-5.1	1.2
5360	30%	-5.2	1.2
5380	30%	-5.2	1.5
5400	29%	-5.3	1.4
5420	28%	-5.5	1.4
5440	27%	-5.7	1.3
5460	26%	-5.8	1.4
5480	25%	-6.0	1.3
5500	25%	-6.1	1.5
5520	25%	-6.1	1.3
5540	26%	-5.8	1.2
5560	27%	-5.7	1.0
5580	27%	-5.6	1.0
5600	27%	-5.7	1.0
5620	28%	-5.5	1.1
5640	27%	-5.7	1.1
5660	28%	-5.6	1.1
5680	27%	-5.7	1.2
5700	28%	-5.5	1.0
5720	26%	-5.8	1.2
5740	25%	-6.0	0.9
5760	25%	-5.9	0.9
5780	24%	-6.2	0.8
5800	23%	-6.4	0.8

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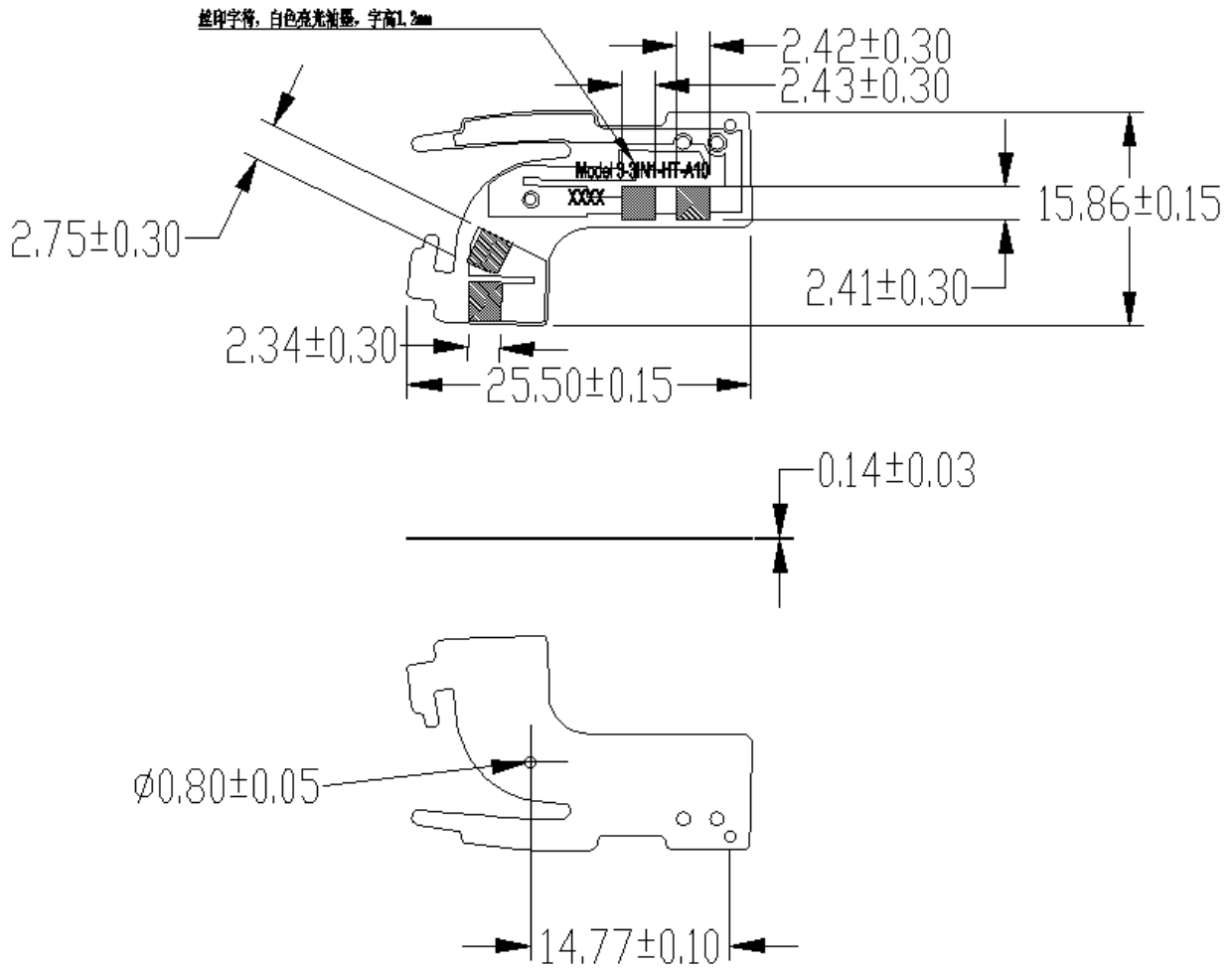
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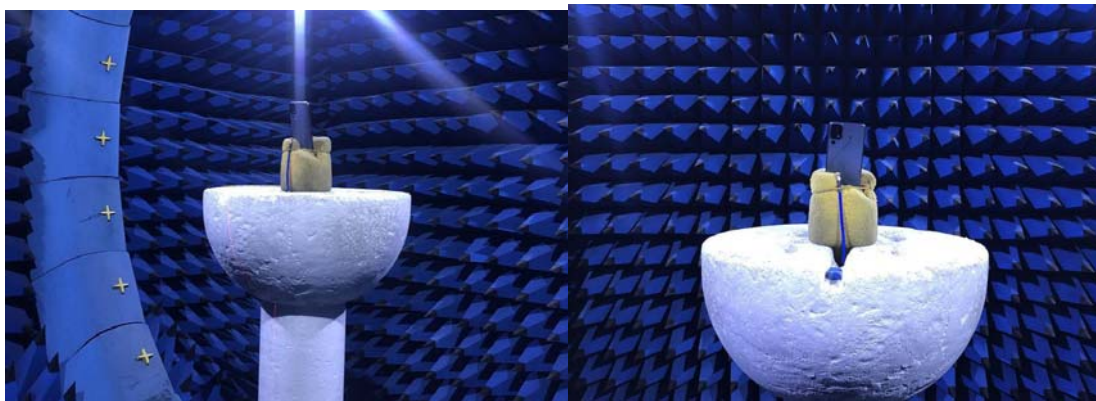
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3. Antenna Dimensions:



4. Testing Environment

Passive Test



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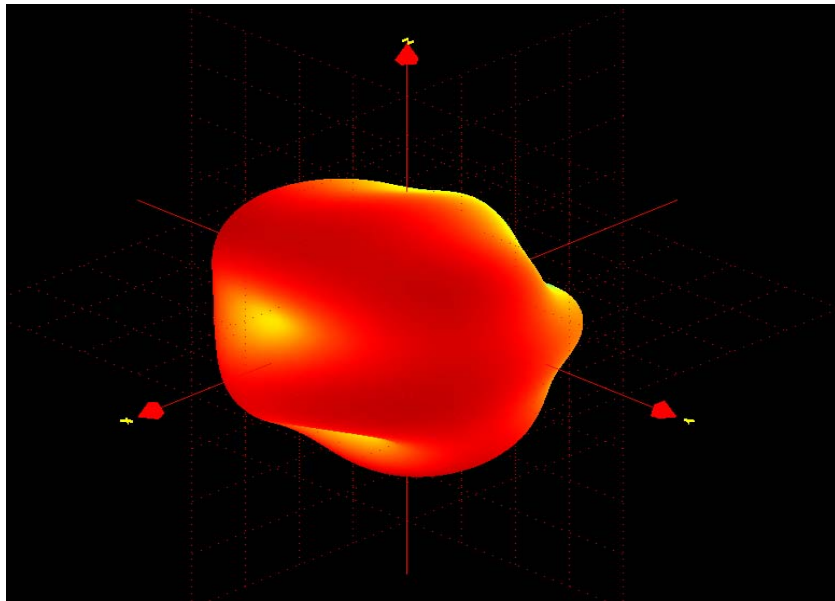
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Active Test



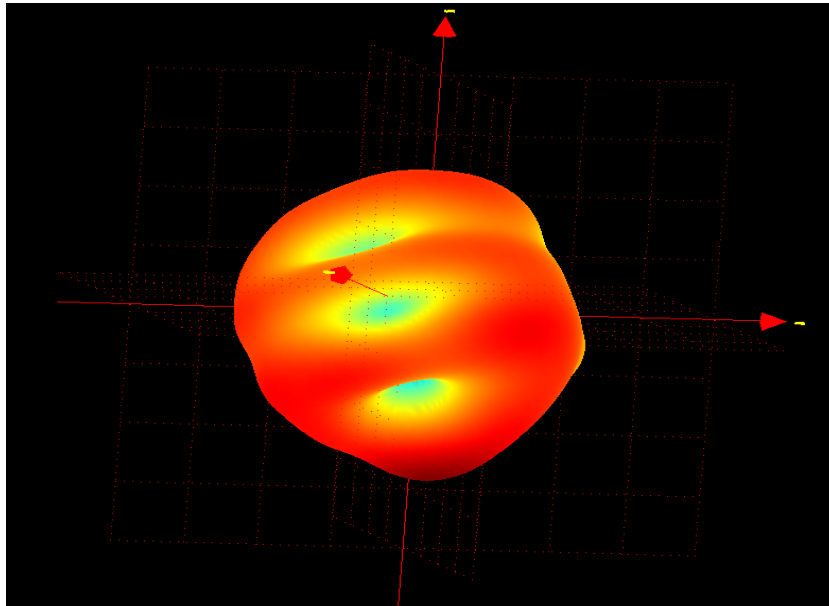
5. 3D Radiation Pattern

GPS [1575MHz]

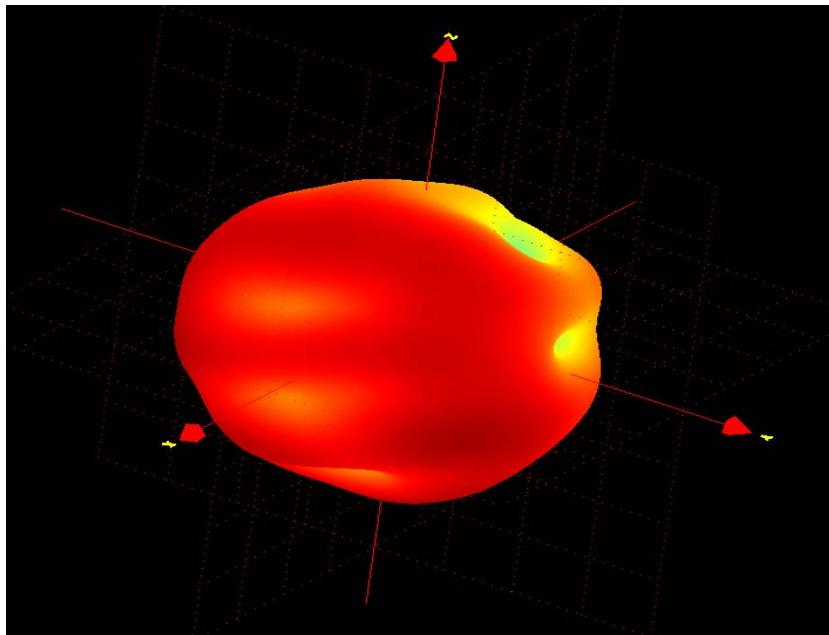



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BT/WiFi 2.4GHz C0 [2400MHz]

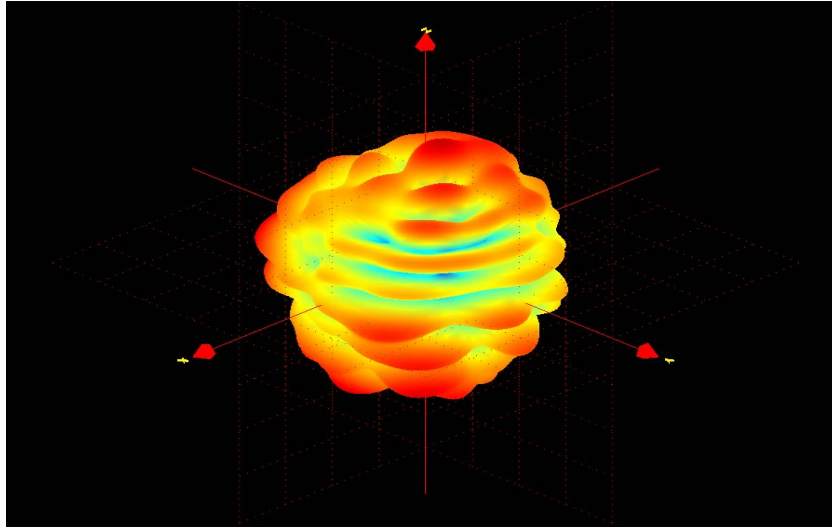


BT/WiFi 2.4GHz C0 [2483MHz]

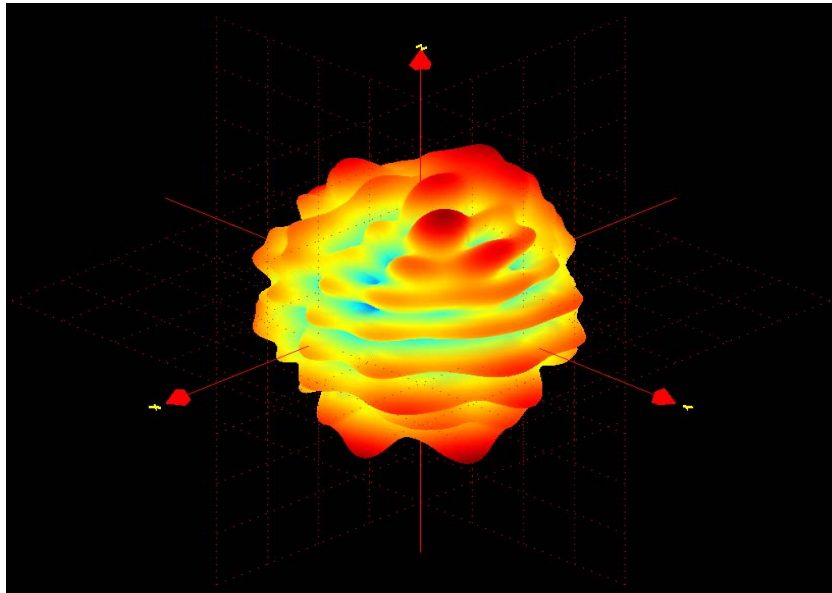


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WiFi 5GHz [5150MHz]



WiFi 5GHz [5825MHz]



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ANGLES=±

HOLEDIA=±

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