

WAG-B.01.L.0806 Specification

1. Explanation of part number :

WAG - B - 01 - L - 0806
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) Frequency : 699-960Mhz, 1710-2690 Mhz

(4) Coaxial Cable Type : 00

(5) Suffix : 088

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GSM	699-960Mhz, 1710-2690 Mhz

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

NHAIT 浙江海通通讯电子股份有限公司

SCALE:

UNIT: mm

DRAWN BY: 张有远

CHECKED BY: 蒋代勇

DESIGNED BY: 蒋代勇

APPROVED BY: 周振邦

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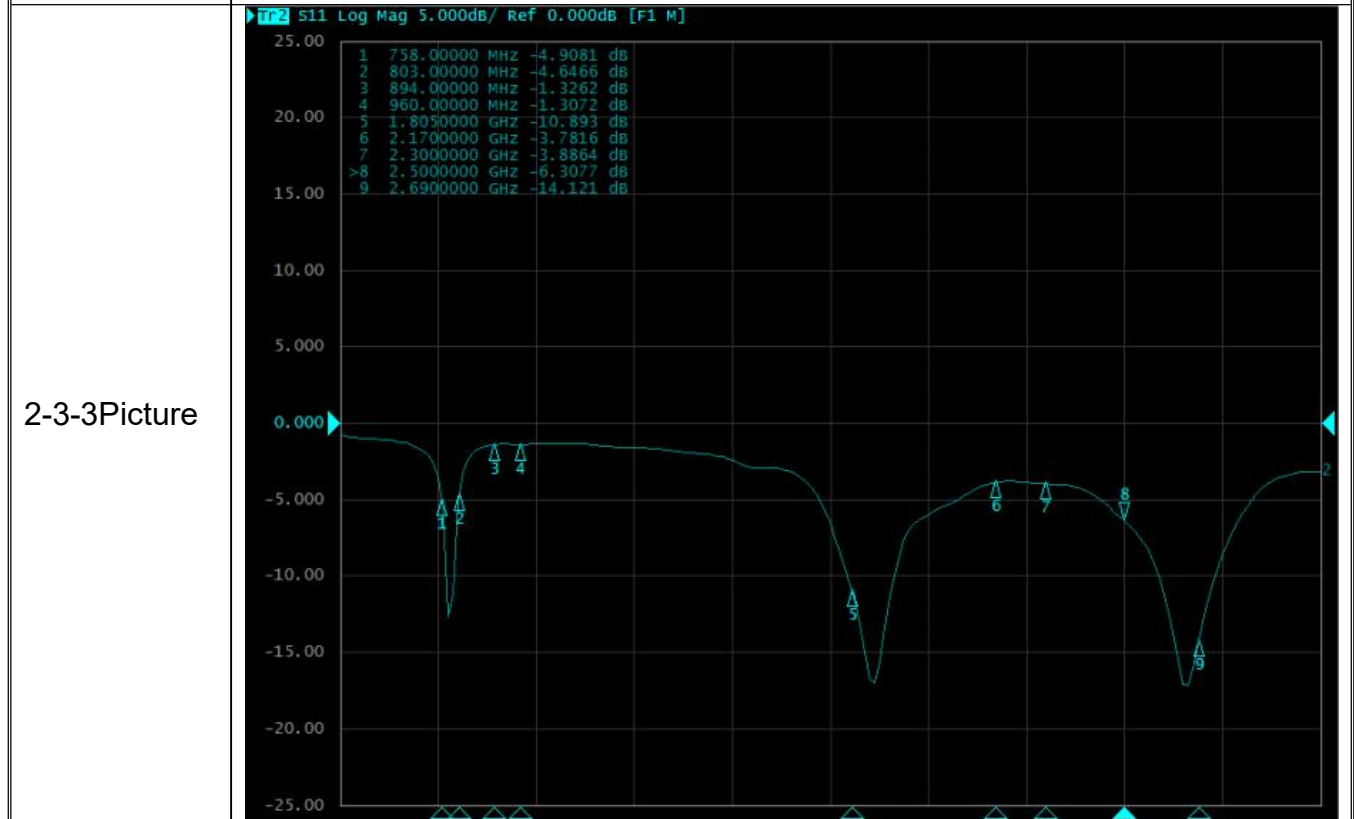
2-2. Impedance

50 ohm nominal

2-3 VSWR:

Frequency Band	758	960	1800	2170	2300	2690
2-3-1. Typical Value:	-4.9	-1.3	-10.8	-3.7	-3.8	-14.1

2-3-2 Measuring Method	<ol style="list-style-type: none"> 1. A 50 Ω coaxial cable is connected to the fpcb 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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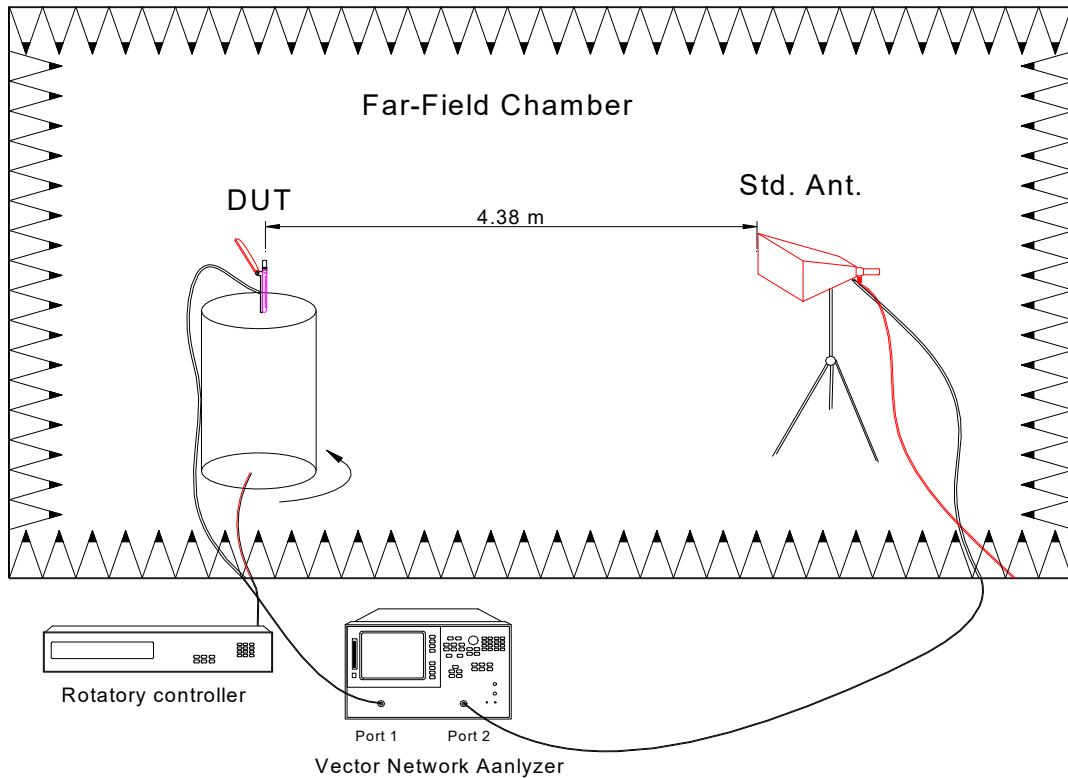
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2-4. Measure and Chamber

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 OTA

2-4- Antenna Efficiency

Frequency	Efficiency	Efficiency . dB	Gain . dBi
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750	5.4%	-12.7	-10.8
760	12.2%	-9.1	-5.6
770	16.4%	-7.9	-4.2
780	17.8%	-7.5	-4.7
790	13.8%	-8.6	-5.8
800	11.0%	-9.6	-6.9
810	9.1%	-10.4	-8.8
820	7.0%	-11.5	-9.7
830	4.7%	-13.3	-11.0
840	3.2%	-14.9	-12.6
850	2.7%	-15.7	-13.8
860	1.4%	-18.5	-14.7
870	1.2%	-19.2	-15.2
880	1.1%	-19.6	-15.8
890	1.0%	-20.0	-16.1
910	0.9%	-20.5	17.6

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920	0.8%	-21.0	-17.9
930	0.8%	-21.0	-18.3
940	0.8%	-21.0	-18.5
950	0.7%	-21.5	-19.8
960	0.7%	-21.5	-18.9
1810	28.0%	-5.5	-0.9
1830	34.4%	-4.6	-0.7
1850	29.8%	-5.3	-0.8
1870	42.5%	-3.7	0.3
1890	39.4%	-4.0	-0.2
1910	35.1%	-4.5	0.0
1930	31.0%	-5.1	-0.8
1950	24.2%	-6.2	-1.2
1970	21.6%	-6.7	-1.3
1990	21.3%	-6.7	-1.5
2010	18.6%	-7.3	-2.6
2030	17.3%	-7.6	-2.9
2050	16.8%	-7.7	-3.1
2070	15.8%	-8.0	-3.2
2090	15.1%	-8.2	-3.8
2110	15.3%	-8.2	-4.1
2130	14.0%	-8.5	-3.7
2150	13.7%	-8.6	-4.5
2170	14.4%	-8.4	-4.3
2290	16.7%	-7.8	-4.6
2310	16.8%	-7.7	-4.8
2330	16.9%	-7.7	-4.6
2350	17.8%	-7.5	-3.7
2370	18.6%	-7.3	-3.9
2390	19.2%	-7.2	-5.3
2410	20.5%	-6.9	-1.7
2430	22.8%	-6.4	-1.5
2450	22.8%	-6.4	-1.2
2470	22.0%	-6.6	-1.3
2490	22.0%	-6.6	1.3
2510	22.0%	-6.6	-1.5
2530	21.1%	-6.8	-1.7
2550	22.1%	-6.6	-1.3
2570	24.3%	-6.1	-1.2
2590	26.2%	-5.8	-0.9
2610	29.1%	-5.4	-0.7
2630	30.8%	-5.1	-0.7

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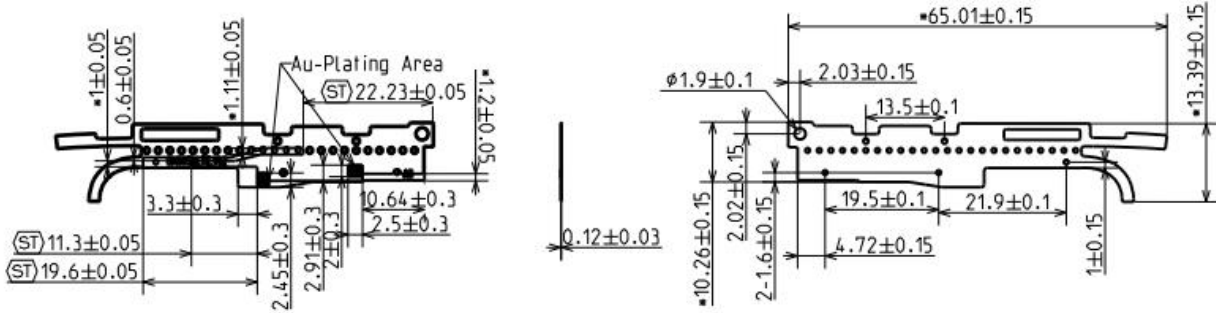
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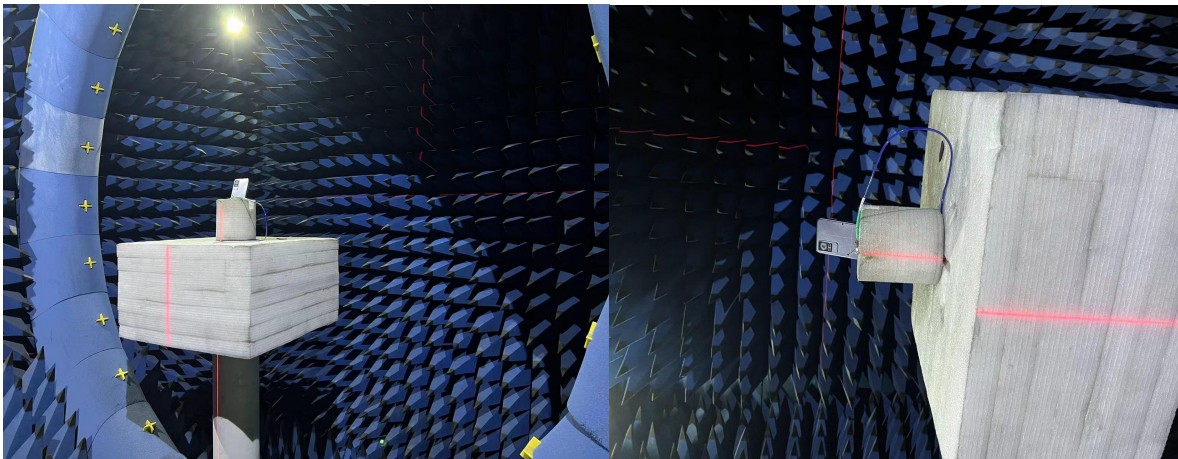
2650	29.9%	-5.2	-0.8
2670	28.2%	-5.5	-0.8
2690	26.5%	-5.8	-1.0

3. Antenna Dimensions (mm) :



4. Testing Environment

Passive Test



Active Test

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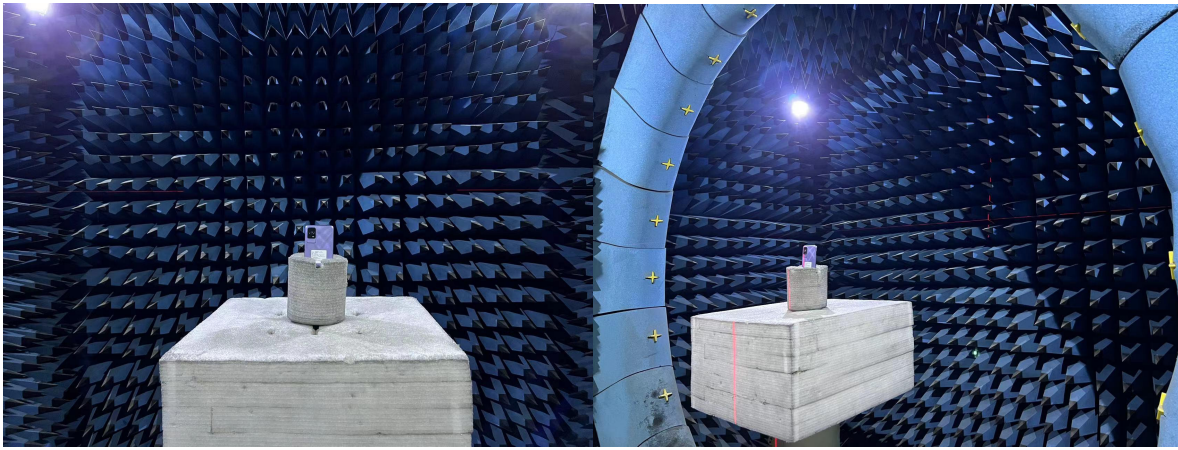
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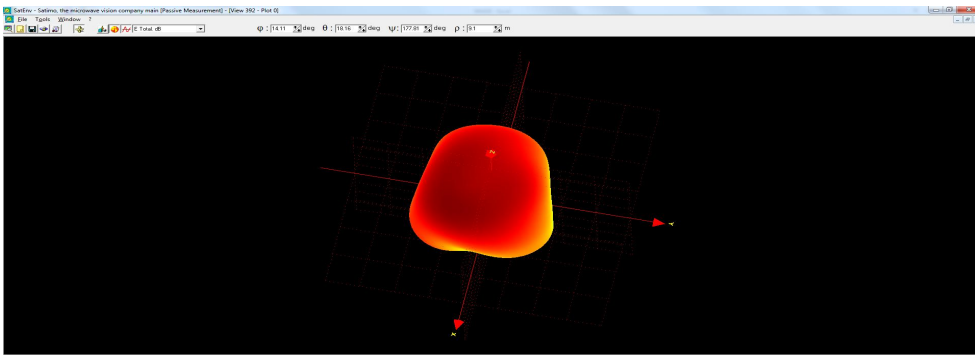
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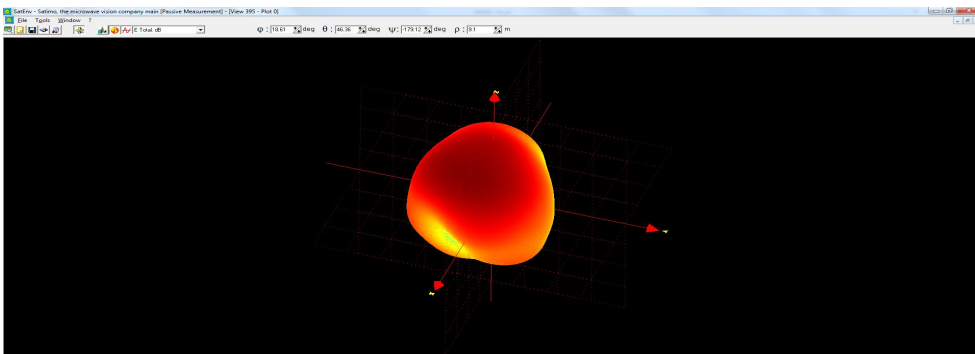


5.3D Radiation Pattern

- LTE B28



- LTE B20



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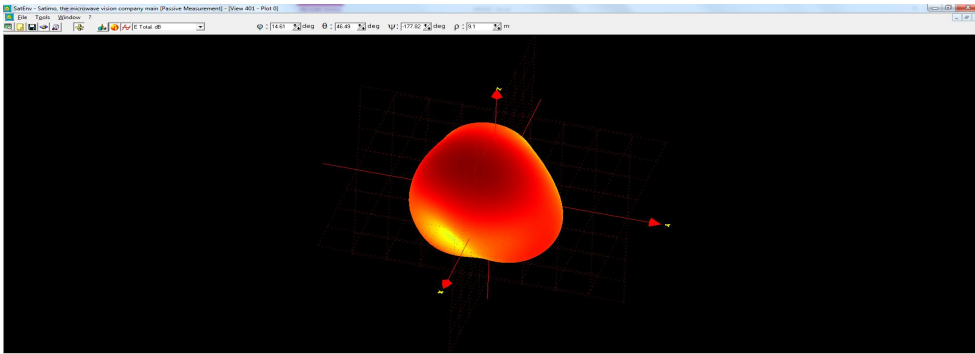
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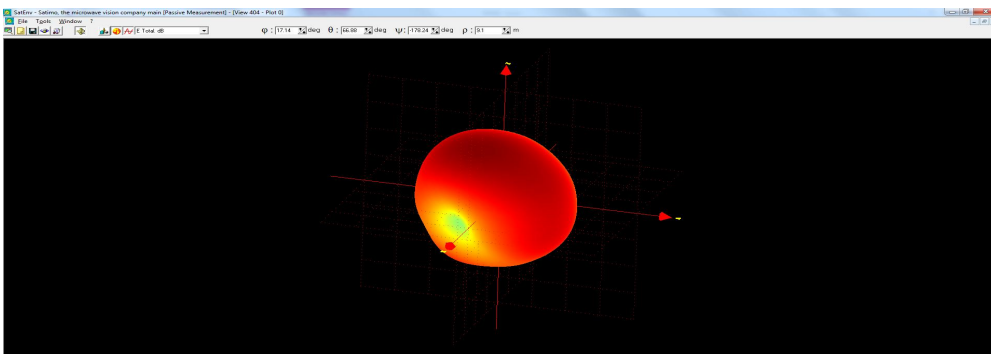
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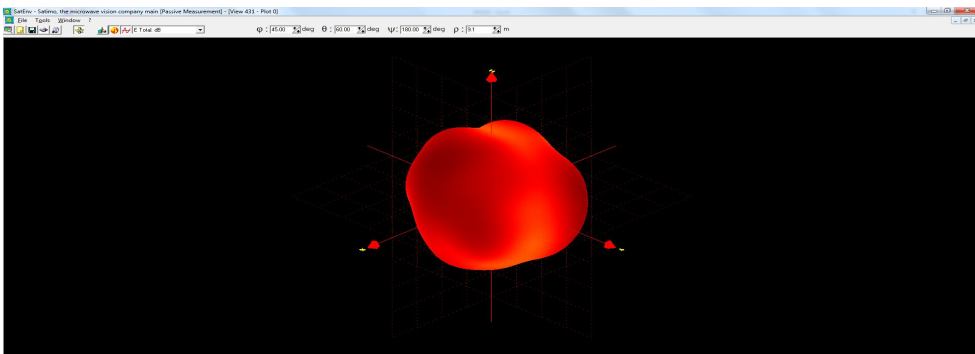
- LTE B5,



- LTE B8,



- LTE B1



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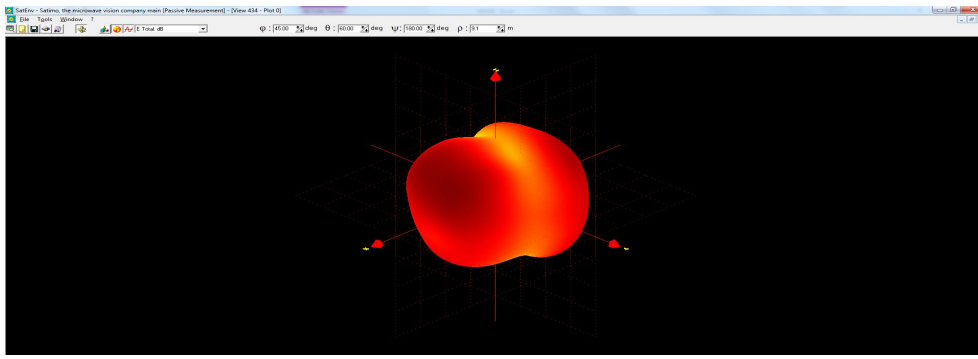
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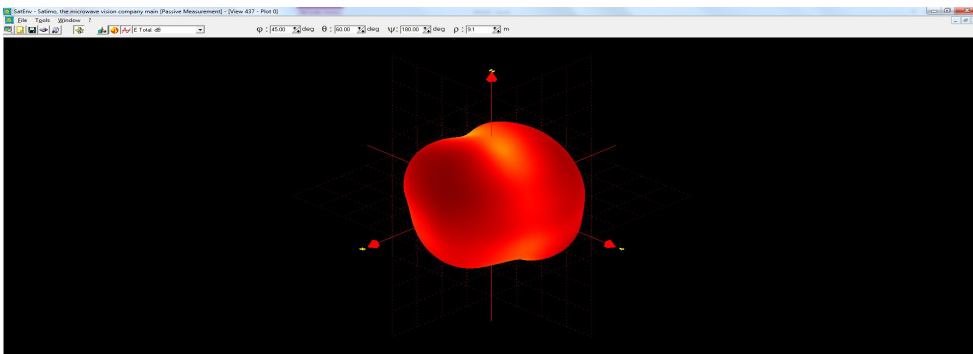
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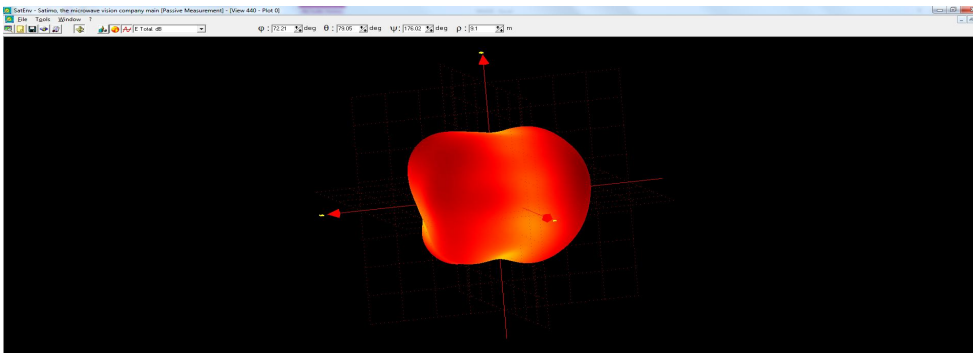
- LTE B2



- LTE B3,B4

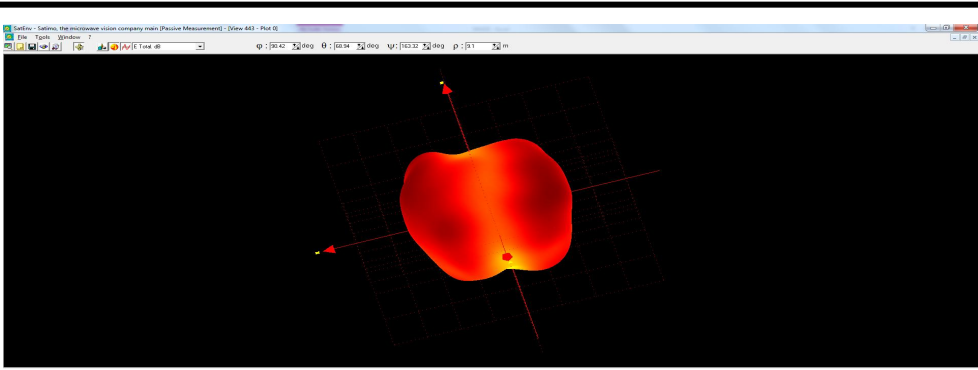


- LTE B40



- LTE B7, B38

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