

品名 : B.1.01.L.1282 工规

History List

B.1.01.L.1282 Specification

1. Explanation of part number :

B.1 : 01 : L : 1282
(1) (2) (3) (4)

- (1) Product Type : Wireless Antenna
- (2) Material : FPC
- (3) State : DVT
- (4) Serial number:1282

2. Electrical Specification :

2-1. Frequency Band:

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

2-2. Impedance

50 ohm nominal

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

2-3.1 S11:

Frequency Band	1575.42	2400	2500		
2-3-1. Typical Value:	-13.6	-13.5	-14.1		
2-3-2Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω 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. 				
2-3-3Picture					

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 ANGLES = \pm HOLEDIA = \pm



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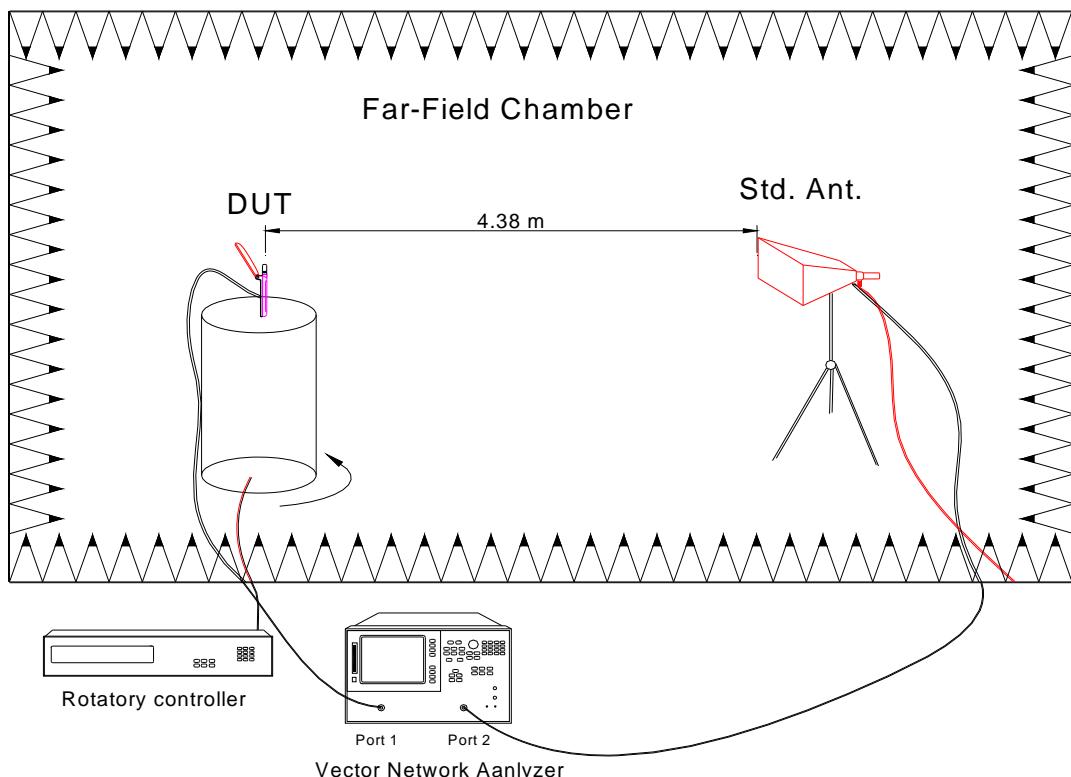
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2-4. Measure and Chamber

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 quite 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	41%	-3.8	2.0
1555	41%	-3.8	2.0
1560	42%	-3.8	2.1
1565	42%	-3.8	2.0
1570	42%	-3.7	2.0
1575	42%	-3.8	1.9
1580	42%	-3.8	1.8
1585	41%	-3.8	1.8
1590	41%	-3.9	1.7
1595	40%	-3.9	1.8
1600	39%	-4.1	1.7
2400	44%	-3.6	1.0
2410	45%	-3.5	1.2
2420	47%	-3.3	1.3
2430	47%	-3.3	1.3
2440	47%	-3.3	1.3
2450	47%	-3.3	1.2
2460	48%	-3.2	1.4
2470	48%	-3.2	1.4
2480	47%	-3.2	1.5
2490	47%	-3.3	1.3
2500	48%	-3.2	1.4

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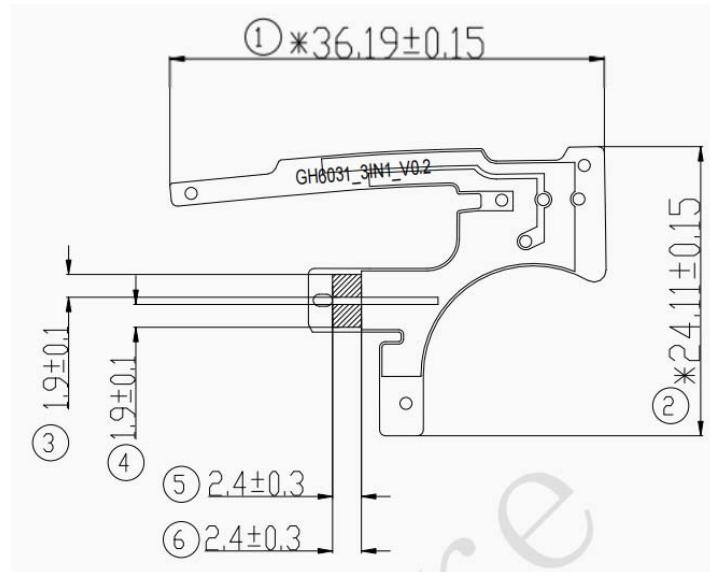
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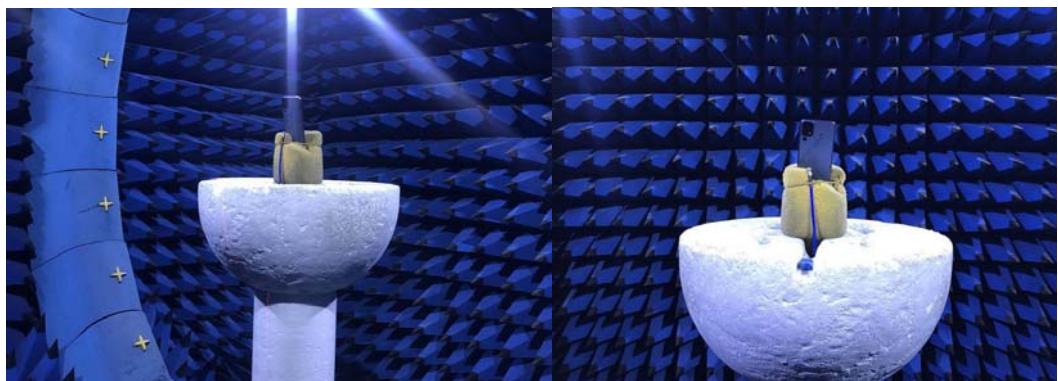
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3. Antenna Dimensions:



4. Testing Environment

Passive Test



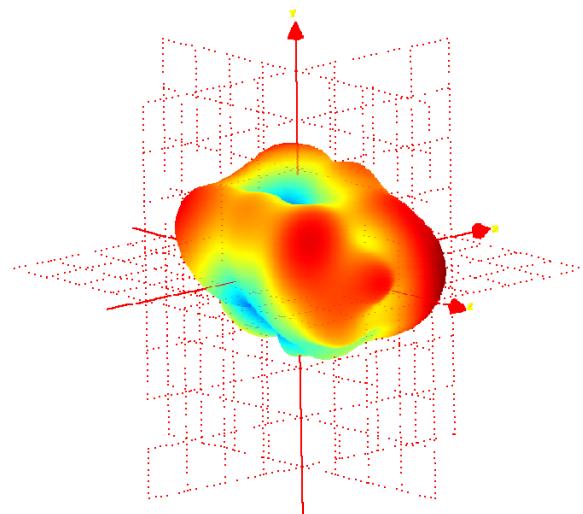
Active Test

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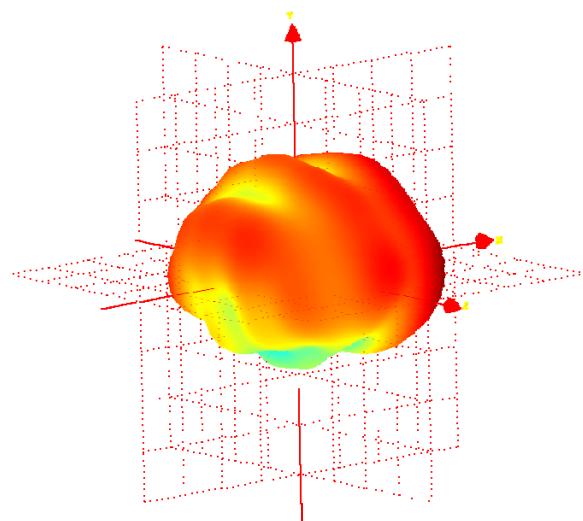
5. 3D Radiation Pattern

GPS [1575MHz]

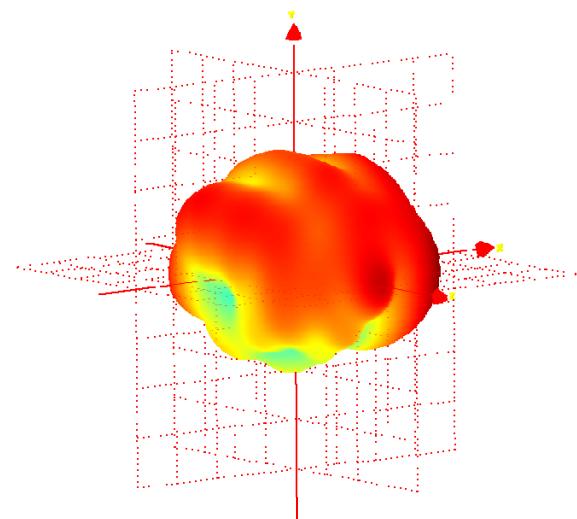


BT/WiFi 2.4GHz [2400MHz]

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BT/WiFi 2.4GHz [2500MHz]



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