

Antenna Specification

Model: GX2783-BT-V1.0

1. Explanation of part number :

GX2783 – **BT** – **V1.0**

(1) (2) (3)

(1) Model Name : GX2781

(2) Frequency :2400-2500MHz

(3) Suffix :V1.0

2. Electrical Specification :

2-1. Frequency Band:

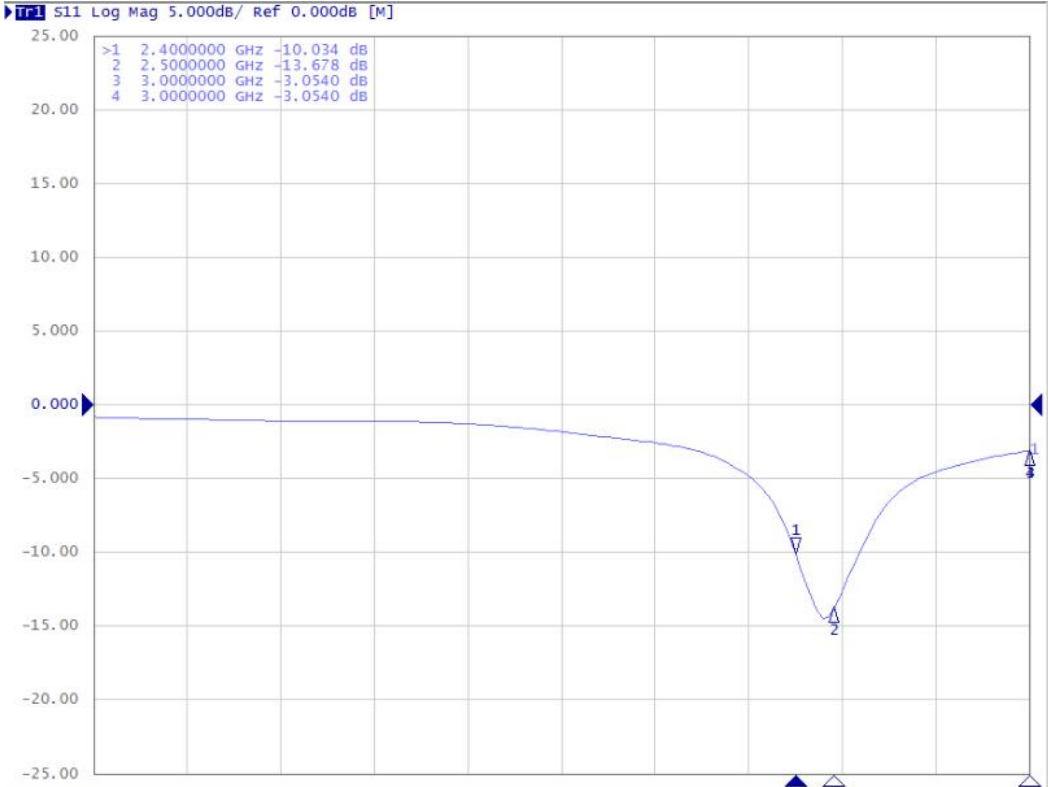
Frequency Band	2400-2500MHz
Antenna Gain	-1.0dBi (MAX)

2-2. Impedance

50 ohm nominal

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

2-3.1 S11:

Frequency Band	2400	2450	2500
2-3-1. Typical Value:	≤ -10	≤ -12	≤ -13
2-3-2 Measuring Method	1. A 50 Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the S11 2. Keeping this jig away from metal at least 20 cm.		
2-3-3 Picture			

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

Deman

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Shanghai Deman Electronics Technology co., LTD

SCALE:

UNIT: mm

DRAWN BY:

CHECKED BY:

DESIGNED BY: 唐炎

APPROVED BY:

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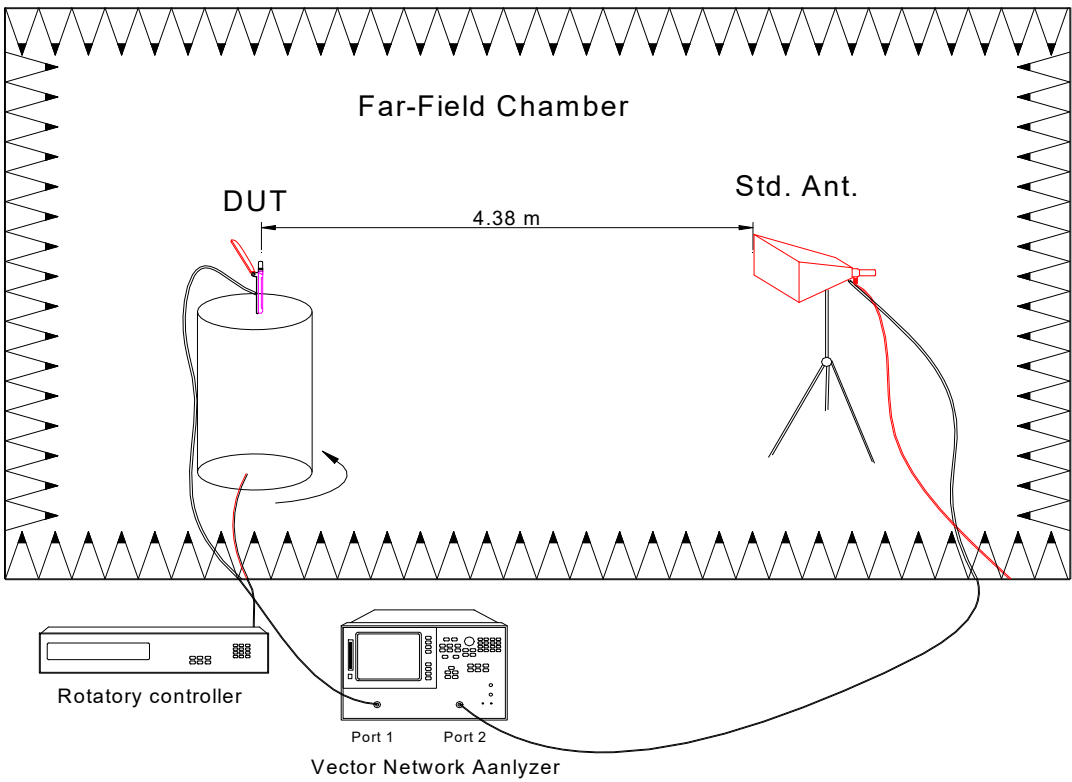
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2-4. Measure and Chamber

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



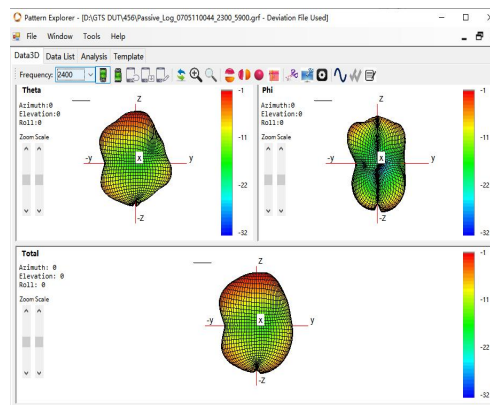
1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn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

2-4-3 Antenna Gain& Efficiency

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Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-1.99	-7.32	28.56
2410	-1.06	-5.36	28.10
2420	-1.00	-5.18	27.64
2430	-1.09	-5.30	28.52
2440	-1.58	-5.69	30.27
2450	-1.37	-5.66	27.15
2460	-2.06	-6.20	23.98
2470	-1.91	-6.13	24.37
2480	-1.31	-5.80	26.30
2490	-1.23	-5.81	26.27
2500	-2.00	-6.35	23.16

3. 3D Radiation Pattern



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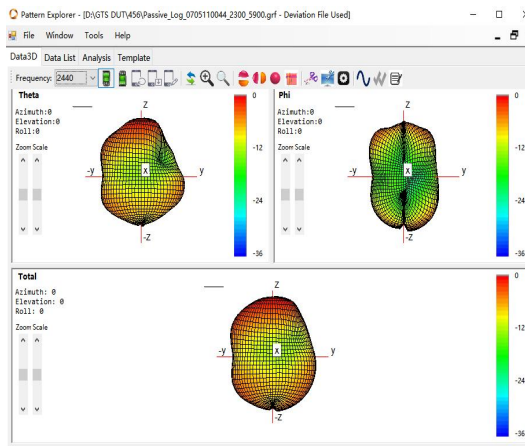
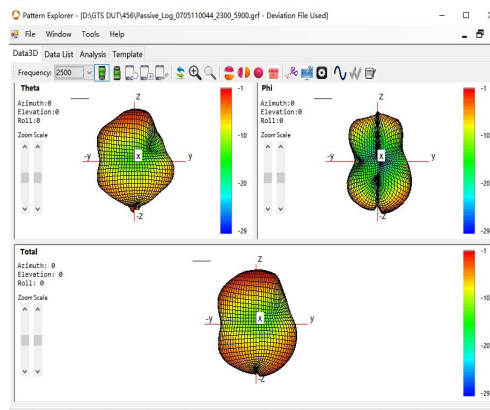
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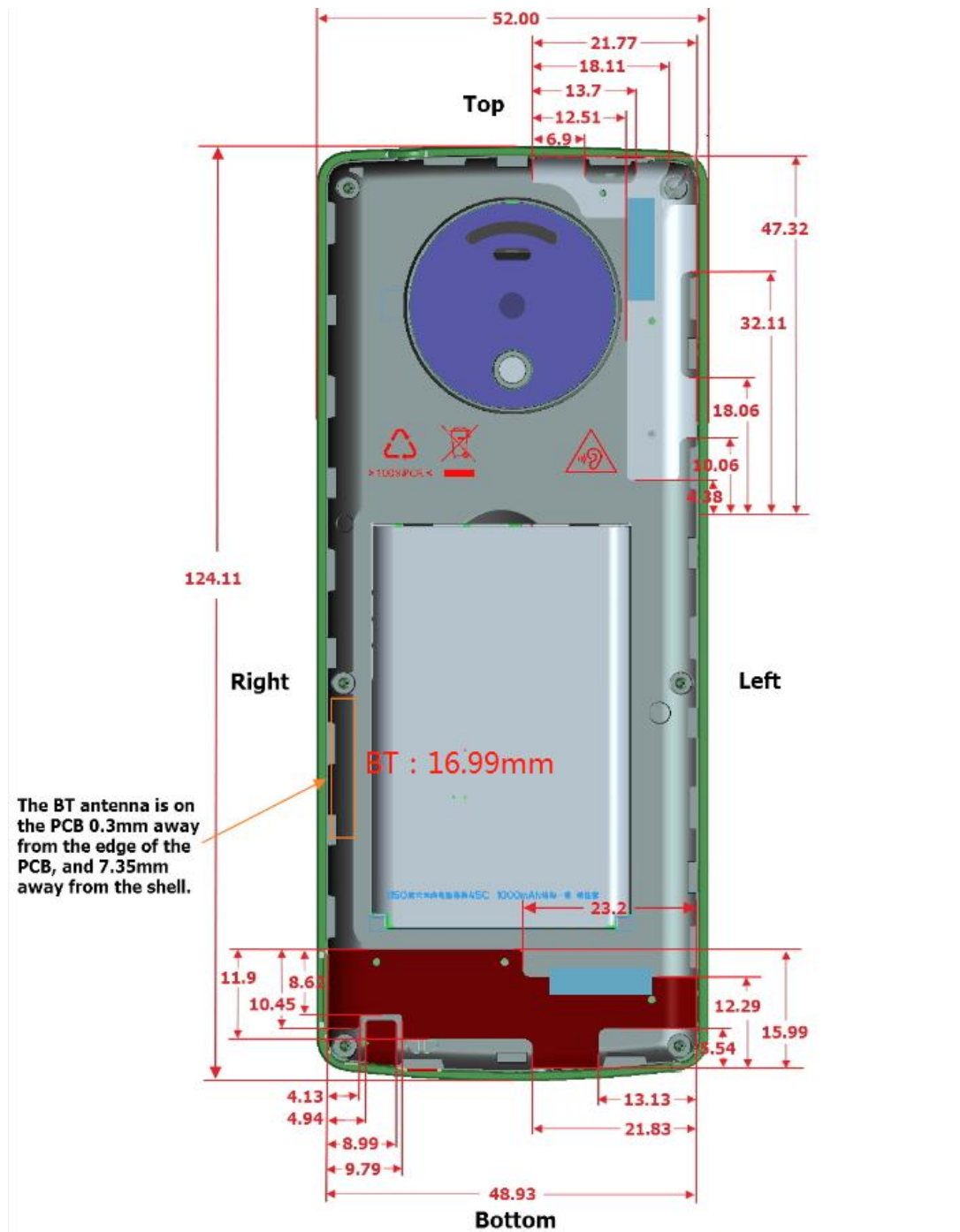
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4. Antenna Dimensions:



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