



產品承認書

Specification for Approval

客戶 (Customer): 正文科技股份有限公司

Customer Part No.:

Product Description: WRTM-373AX

Lynwave Part No.: AEX22M-222AA1-00

客戶簽核 (Customer Approval)

| | | |
|---------------------------|-----------------|---------------|
| 客戶承認 Customer Approval | 核准 (Authorized) | 檢驗 (Approved) |
| | | |
| | 日期： 年 月 日 | |

內部簽核 (Signature)

日期： 2023 年 03 月 28 日

| | | |
|-----------------|-----------------|------------------|
| Approved by | Checked by | Tested by |
| <i>YungMing</i> | <i>Lisa Wei</i> | <i>Zero Chen</i> |

綠億科技股份有限公司

Lynwave Technology Ltd.

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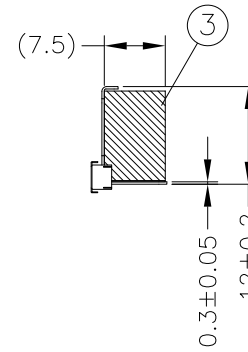
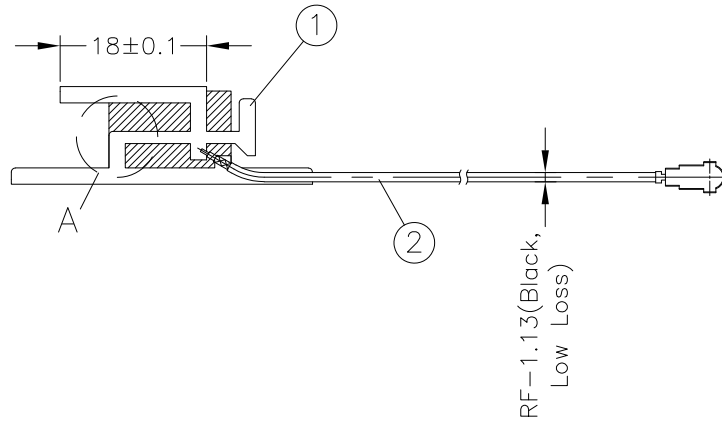
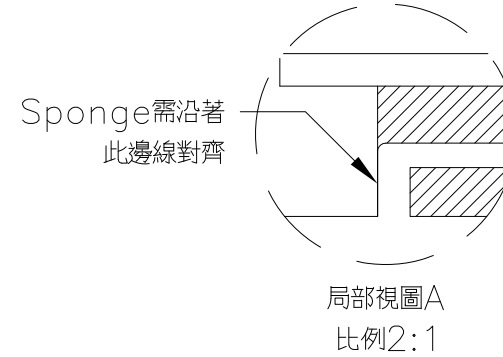
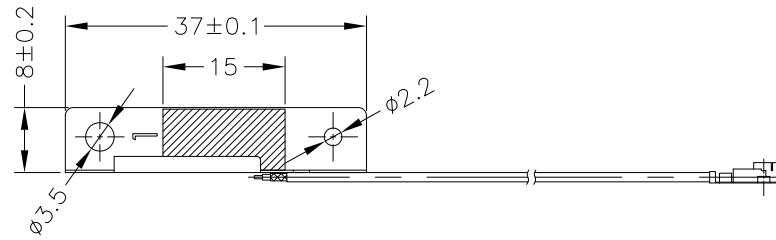
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Specification

Physical Properties :

1. Operation temperature : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
2. Storage temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
3. Storage period: 2years
4. Weight: TBD

| Rev | Zone | Description | ENG | Approved | Date |
|-----|------|----------------------------|-----|----------|------------|
| A1 | | 修改線長, 由130mm改為115mm | | | 2022/07/28 |
| A2 | | 修改鐵件造型; 增加備註3 | | | 2022/09/28 |
| A3 | | 鐵件增加字模 | | | 2022/12/13 |
| A4 | | 修改線長, 由115mm改為85mm | | | 2023/02/01 |
| A5 | | 修改鐵件材質, 由馬口鐵改為SUS430 鍍鎳 | | | 2023/03/27 |



- 備註:
- MHF compatible有方向性, 請依照圖面方向生產.
 - Sponge需沿鐵件邊線貼齊且不得超出鐵件外.
 - Cable走線與焊點不得低於鐵件底面.

| No. | Description | Specification | Qty | TOLERANCE | | CUSTOMER | PART NO. | | DESCRIPTION: | | DWG NO. | REV. |
|-----|-------------|--|-----|-----------|-------|------------|-----------|---------|--------------|------------------|---------|------|
| | | | | .XX | ±1.0 | ---- | ---- | Antenna | | AEX22M-222AA1-00 | A5 | |
| 3 | Sponge | EVA, SINGLE SIDE ADHESIVE: 3M 9888T, L15 x W7.5 x T11mm | 1 | XX. | ±0.5 | PROJECTION | UNIT | SCALE | SIZE | SHEET | | |
| 2 | Cable | DIA 1.13mm, SINGLE COAXIAL LOW LOSS CABLE, COLOR:BLACK, L=85±2 | 1 | X. | ±0.3 | | mm | 1:1 | A4 | 1/1 | | |
| 1 | Metal | L37 x W8 x H12 x T0.3mm, SUS430 鍍鎳 | 1 | .X | ±0.1 | APPROVED: | DESIGNED: | | DRAWN: | | | |
| | | | | .XX | ±0.05 | Alex Lee | Yungming | | Anna | | | |

LYNwave
www.lynwave.com

WRTM-373AX Antenna Simulation Report



Antenna Team
March 28, 2023

Gemtek Confidential
Distribution Prohibited

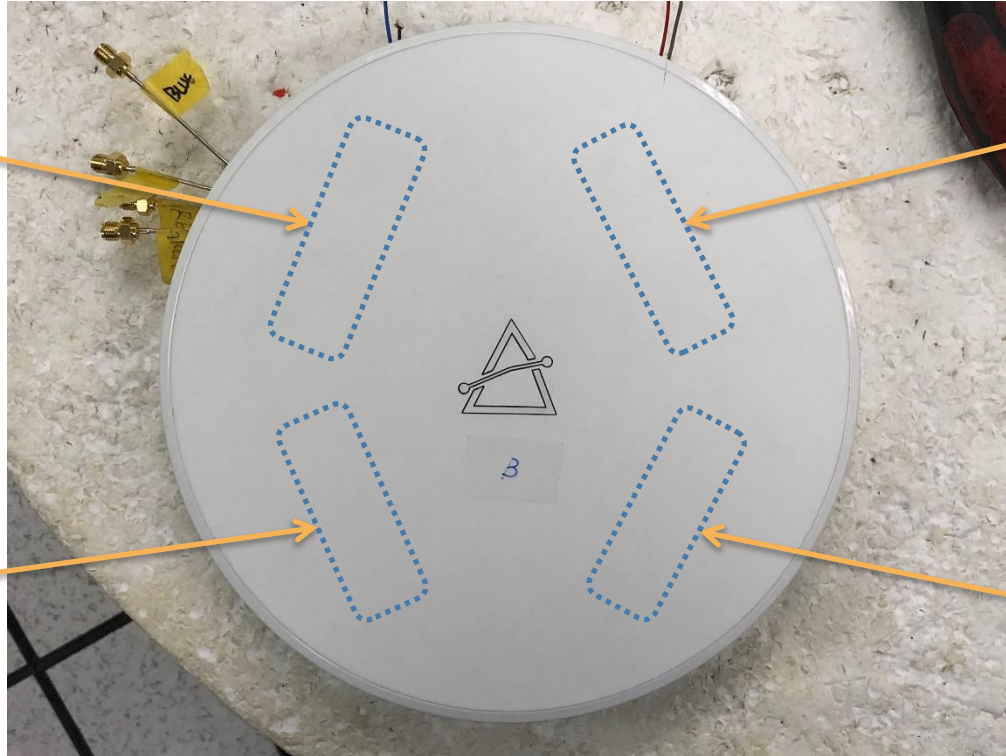
Antenna Set Definition

Ant1

Ant2

Ant3

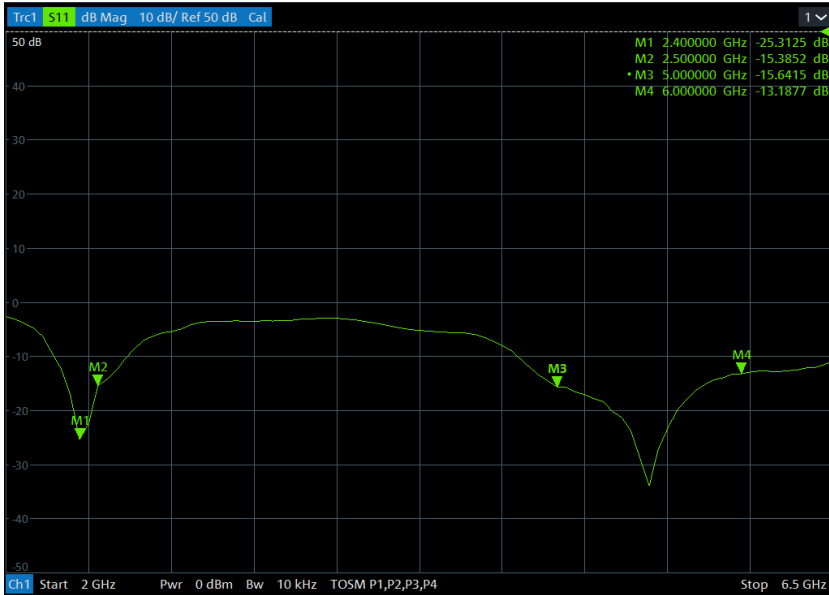
Ant4



G Band Antenna Return Loss

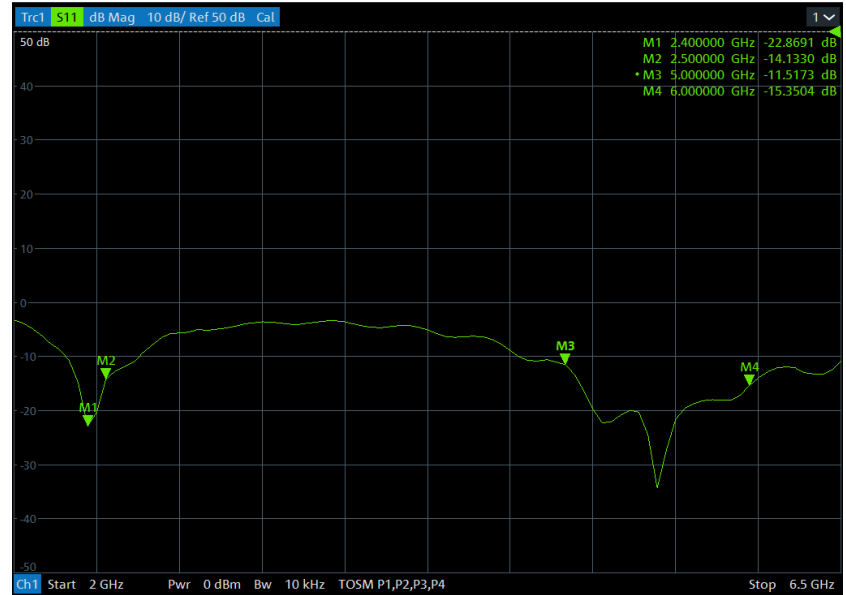
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ANT2

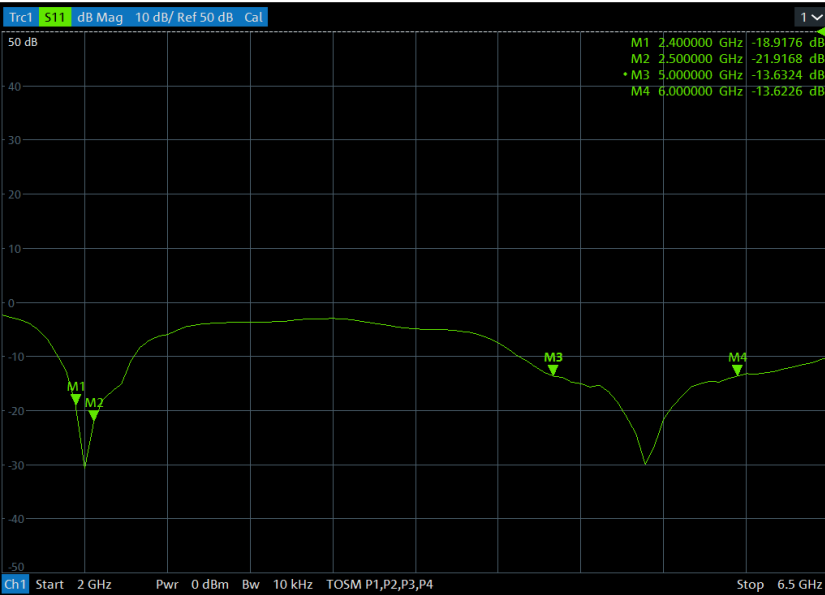
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G Band Antenna Return Loss

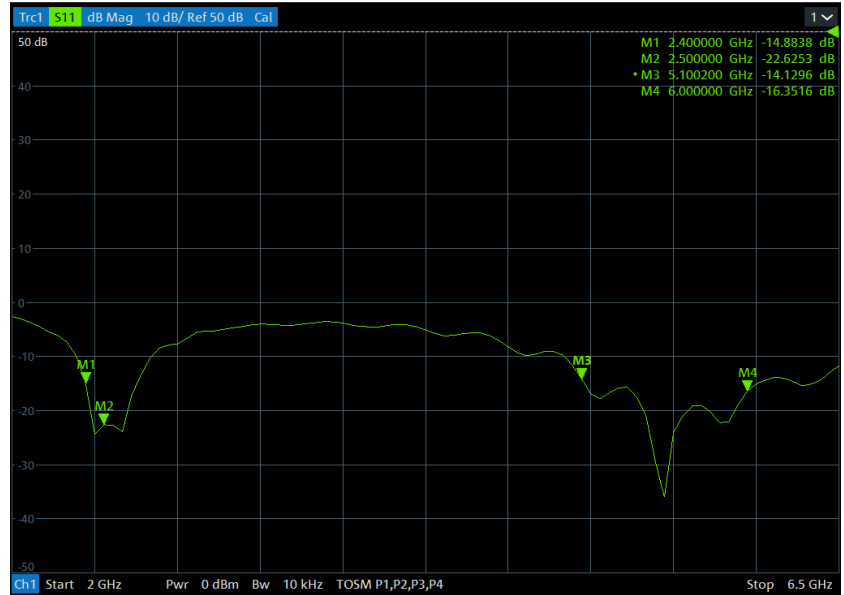
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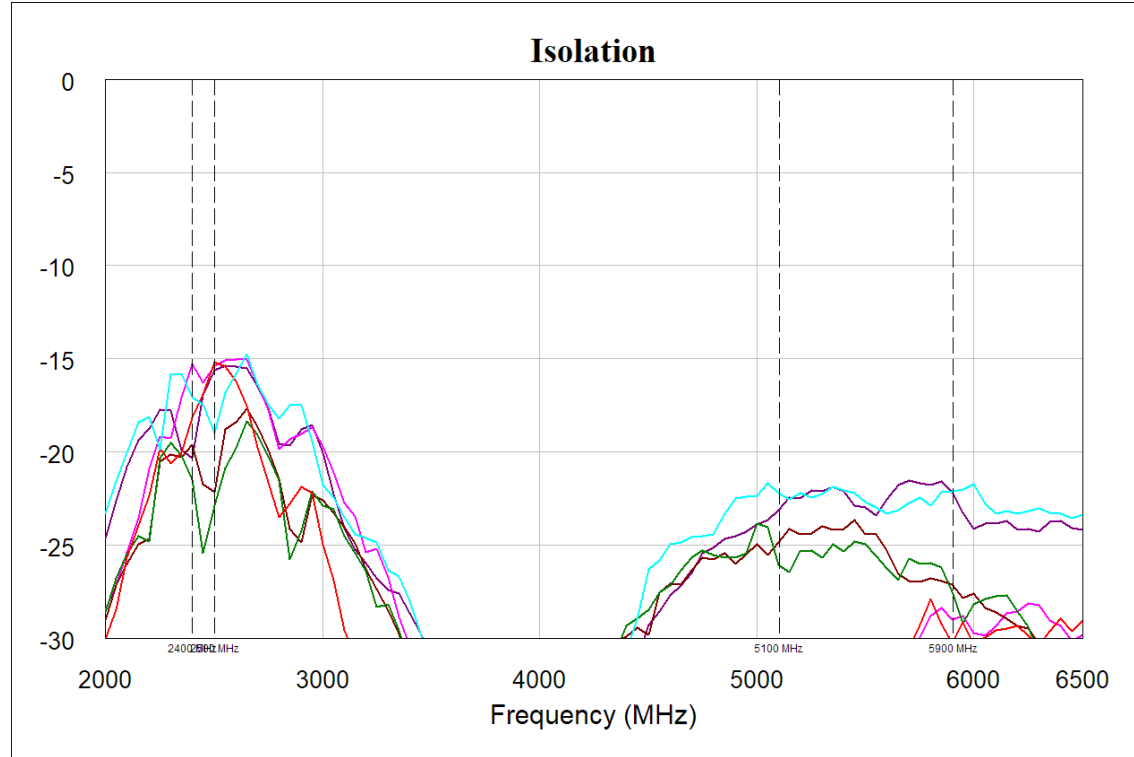


ANT4

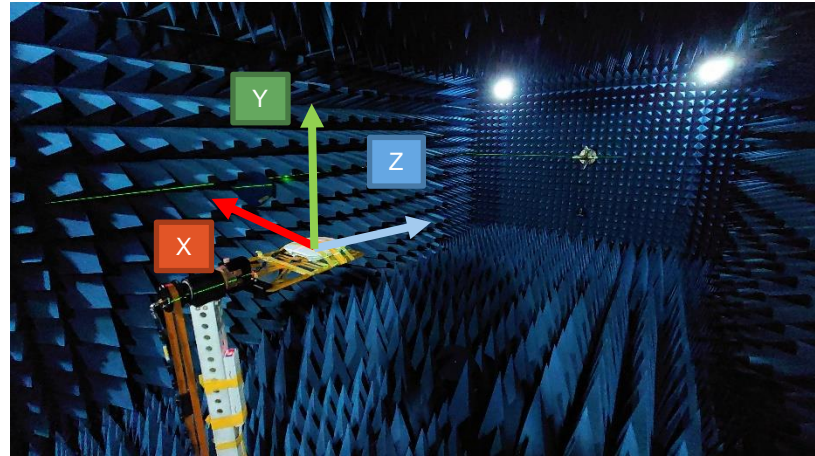
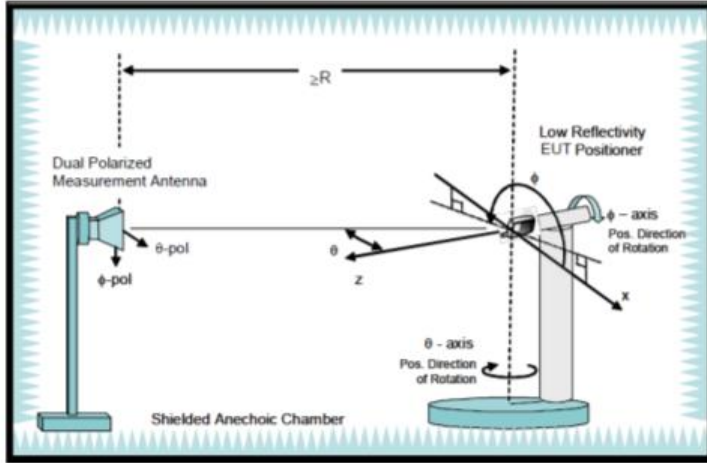
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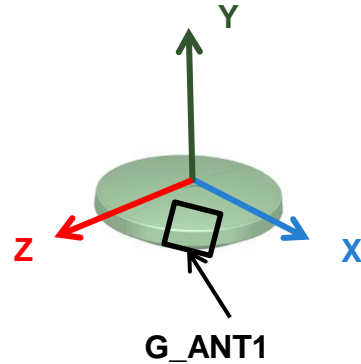
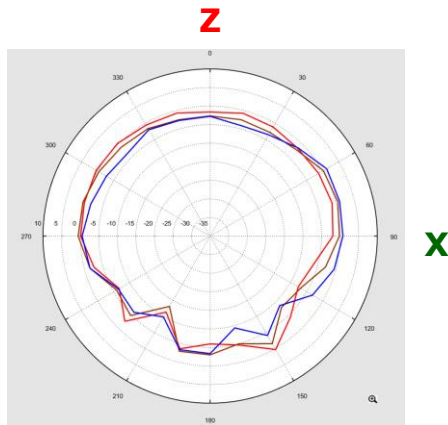
Antenna Isolation



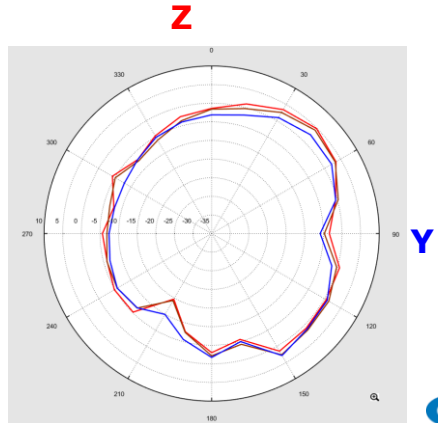
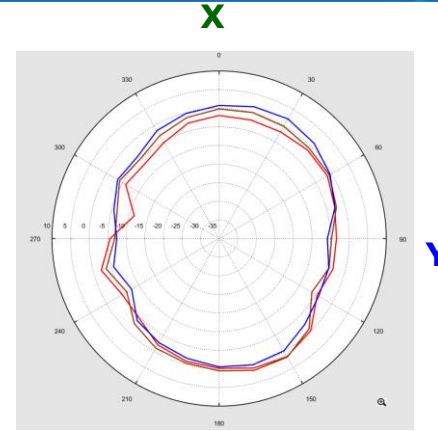
Antenna Coordinate System Definition



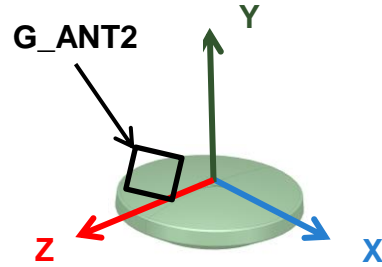
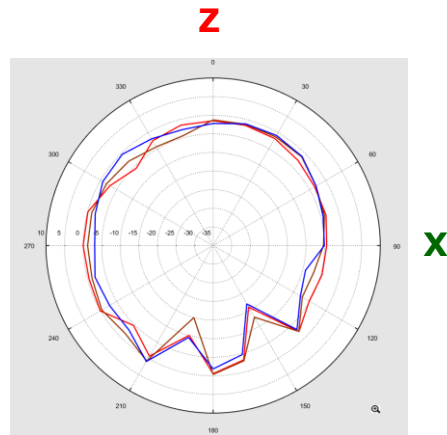
G_ANT1 GainTotal (dBi) Pattern



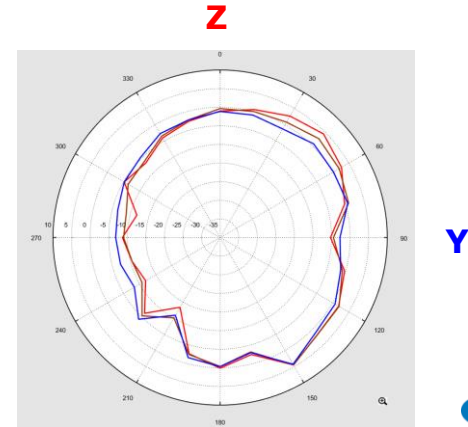
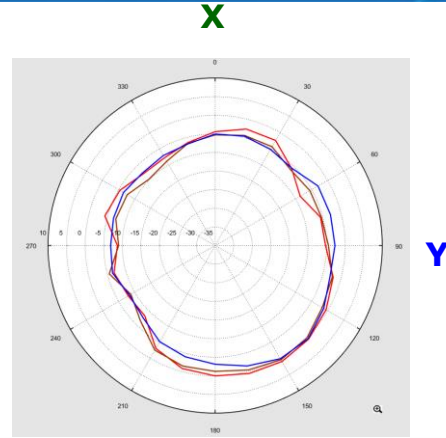
2400MHz ———
2450MHz ———
2500MHz ———



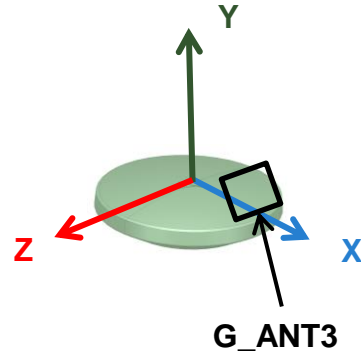
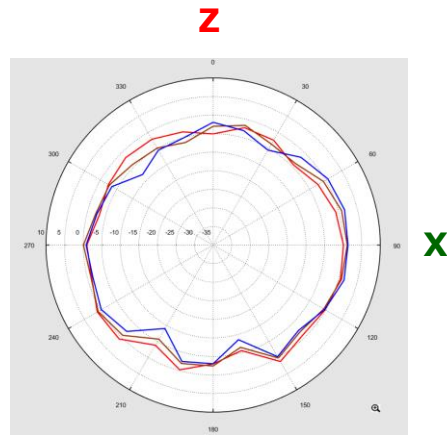
G_ANT2 GainTotal (dBi) Pattern



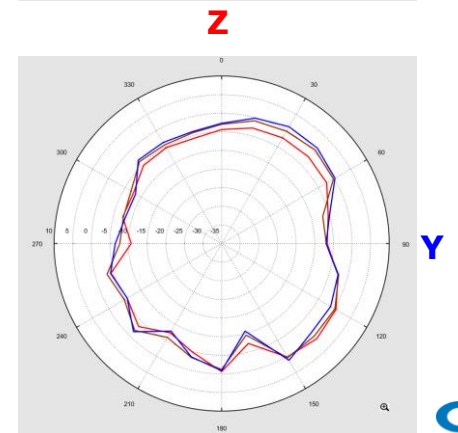
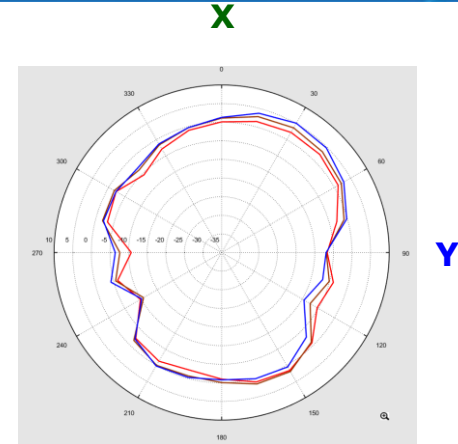
2400MHz ———
2450MHz ———
2500MHz ———



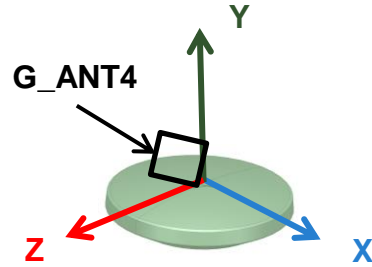
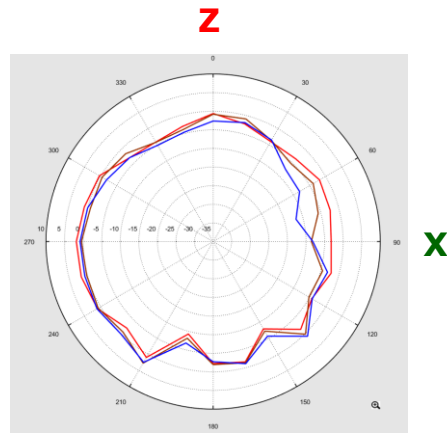
G_ANT3 GainTotal (dBi) Pattern



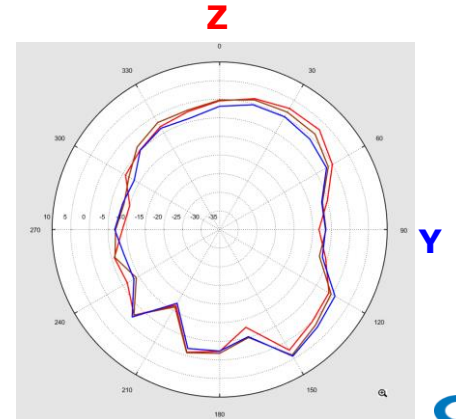
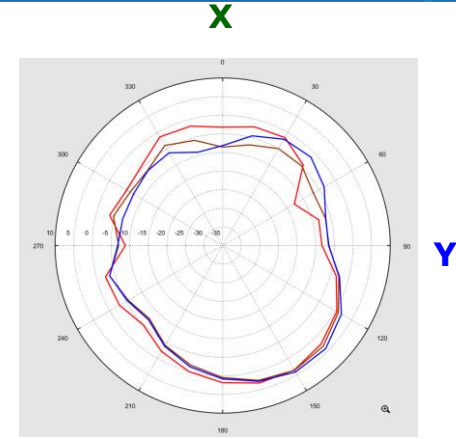
2400MHz ———
2450MHz ———
2500MHz ———



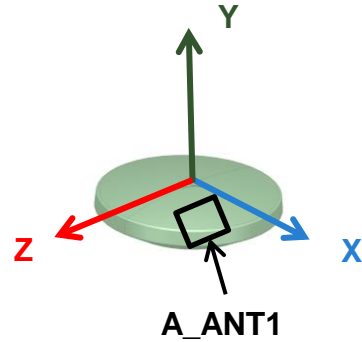
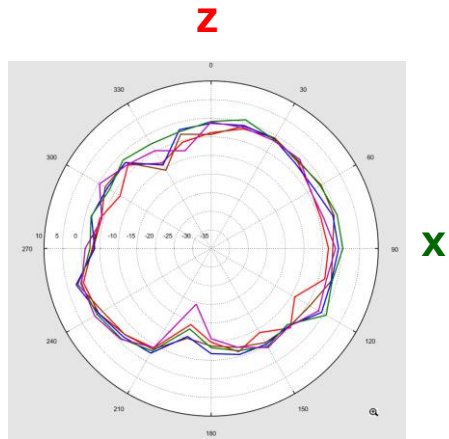
G_ANT4 GainTotal (dBi) Pattern



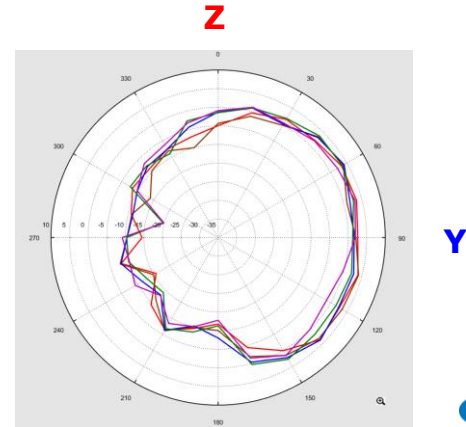
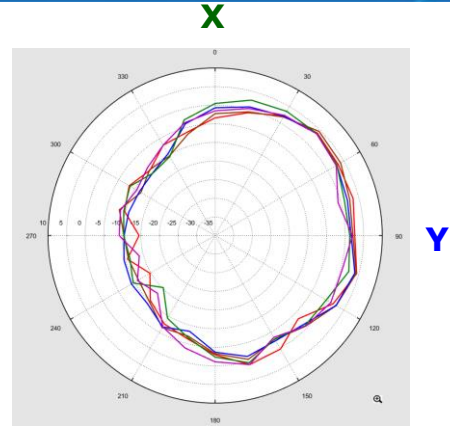
2400MHz —
2450MHz —
2500MHz —



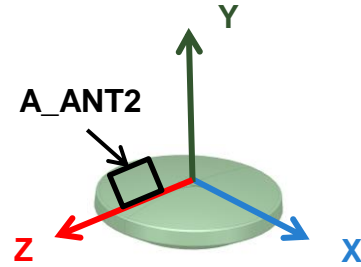
A_ANT1 GainTotal (dBi) Pattern



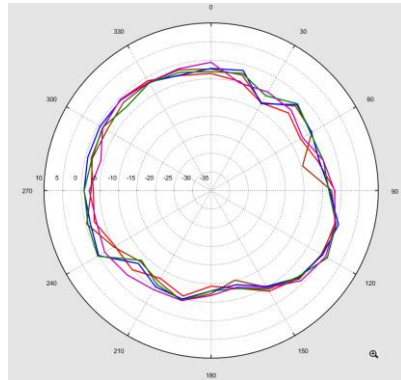
- 5100MHz —
- 5300MHz —
- 5500MHz —
- 5700MHz —
- 5900MHz —



A_ANT2 GainTotal (dBi) Pattern



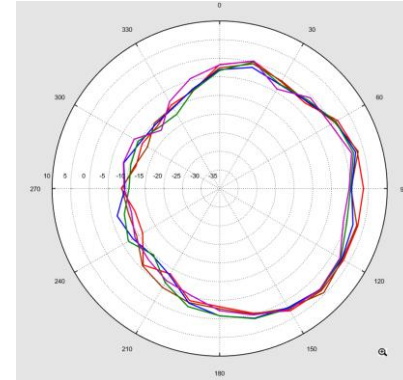
Z



X

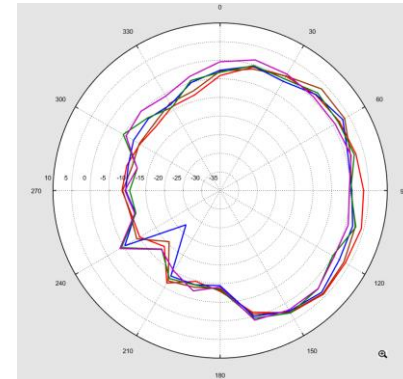
- 5100MHz
- 5300MHz
- 5500MHz
- 5700MHz
- 5900MHz

X



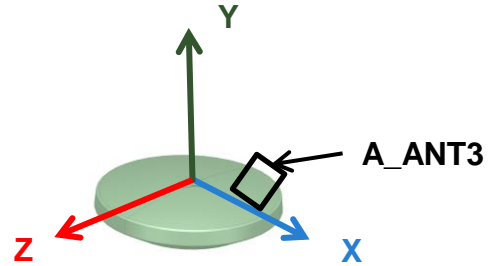
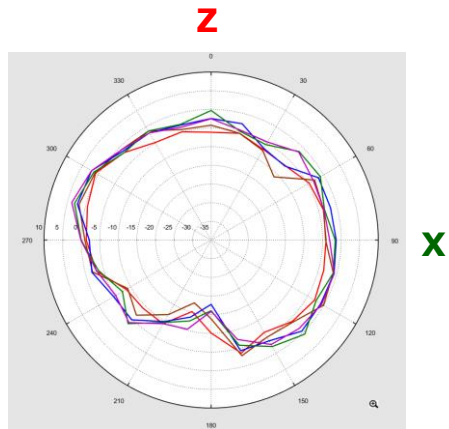
Y

Z

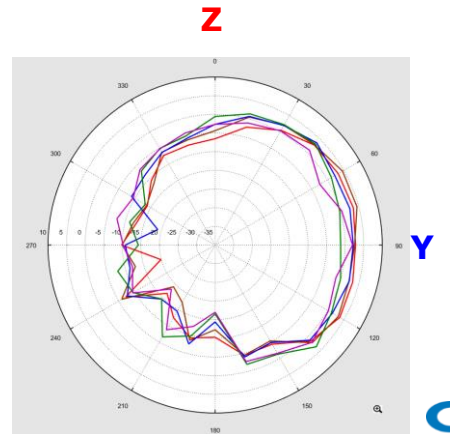
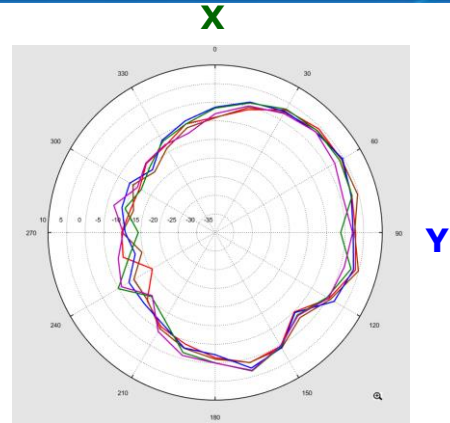


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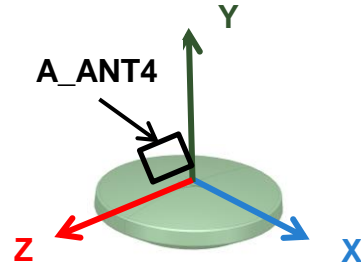
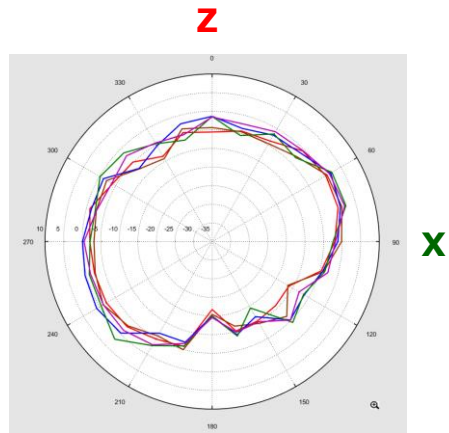
A_ANT3 GainTotal (dBi) Pattern



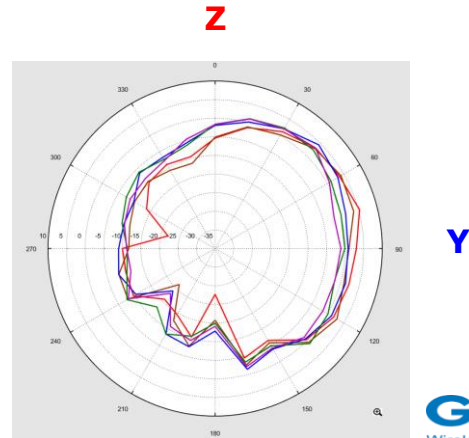
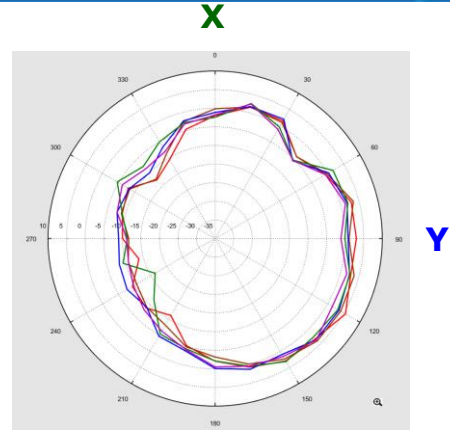
- 5100MHz —
- 5300MHz —
- 5500MHz —
- 5700MHz —
- 5900MHz —



A_ANT4 GainTotal (dBi) Pattern



- 5100MHz —
- 5300MHz —
- 5500MHz —
- 5700MHz —
- 5900MHz —



Antenna Peak Gain

| WIFI G Band Antenna Peak Gain (dBi) | |
|-------------------------------------|-----------|
| Frequency (MHz) | 2400~2485 |
| G Band | 2.71 |

| WIFI A Band Antenna Peak Gain(dBi) | | | | |
|------------------------------------|-----------|-----------|-----------|-----------|
| Frequency (MHz) | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 |
| A Band | 2.13 | 2.17 | 2.42 | 2.9 |

Noted: The antenna gain excludes the cable loss, Cable Loss is refer to D1.13 low loss cable datasheet, the attenuation at 2.4GHz is 3.2dB per meter.(including MHF PLUG)