

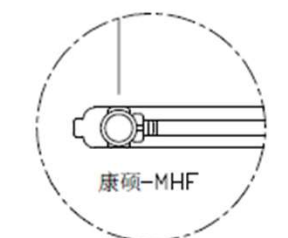
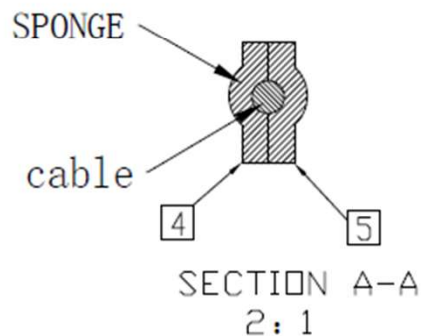
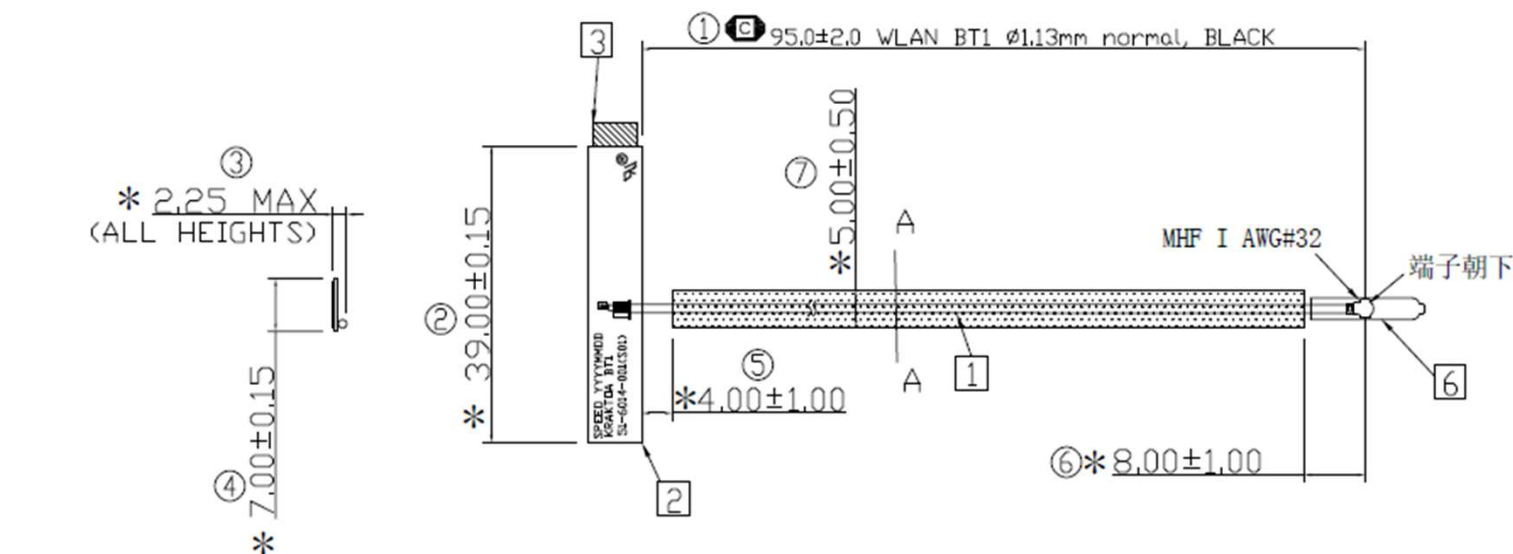
# Verkada Krakatoa

Antenna manufacturer : Huizhou Speed Wireless Technology Co., Ltd.  
Address: No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai  
Hi-tech District, Huizhou City, Guangdong Province  
Antenna brand: SPEED

## NOTES :

1. GEOMETRIC DIMENSIONING AND TOLERANCING SYMBOLY PER ASME Y14.5M-1994.
2. THIS IS A PARTIALLY DIMENSIONED DRAWING USED IN CONJUNCTION WITH THE 3D MODEL. TOLERANCES OF UNSPECIFIED DIMENSIONS ARE  $\pm 0.15$  mm.
3. DIMENSIONS INSPECTION (100%) REPORT ON CUSTOMER INSPECTION FORMAT.
4. INSPECT AND REPORT ⑤ CRITICAL DIMENSIONS TO A MIN. Cpk OF 1.4 AND A MINIMUM Cp OF 1.8 FOR THREE LOTS.
5. FINISHED ASSEMBLY TO BE CLEAN AND FREE OF ALL FOREIGN MATERIAL, DIRT, OIL, GREASE OR OTHER CONTAMINANTS.
6. MATERIAL USED FOR ASSEMBLY MUST MEET FLAMMABILITY RATING OF 94 VTM-0.
7. PRODUCTS MUST MEET RoHS2.0 & SPEED REGULATION OF HAZARDOUS SUBSTANCES.

| MARK | NUMBER | DESCRIPTION       | APPROVED | DATE      | NOTE |
|------|--------|-------------------|----------|-----------|------|
|      |        | DRAWING AS ISSUED | NIKO     | JUN.16.26 |      |



(CABLE LENGTH)

CUSTOMER P/N :0790A2516L-A01

|   |                     |                                                                     |   |
|---|---------------------|---------------------------------------------------------------------|---|
| 5 | M-Y1-S1-6014-002-20 | SPONGE 02(海绵02)<br>(83.0 x 5.6 x 1.0mm, SPONGE-E-4308,INDAC)        | 1 |
| 4 | M-Y1-S1-6014-001-20 | SPONGE 01(海绵01)<br>(83.0 x 5.6 x 1.0mm, SPONGE-E-4308,INDAC+3M9795) | 1 |
| 3 | M-Y4-S1-6014-001-00 | DOUBLE SIDED TAPE 01                                                | 1 |
| 2 | M-Z2-S1-6014-001-00 | PCB_verkada_kraktoo_BT1                                             | 1 |
| 1 | S-D1-S1-6014-001-K0 | 1.13mm COAXIAL CABLE ASSEMBLY                                       | 1 |

| ITEM | PART NUMBER | PART NAME | QTY |
|------|-------------|-----------|-----|
|------|-------------|-----------|-----|

|            |         |                           |             |        |     |
|------------|---------|---------------------------|-------------|--------|-----|
| TOLERANCES | TITLE   | verkada_kraktoo_WLAN_BT_1 | DESIGN      | Niko   | DAY |
|            | PROJECT | verkada_kraktoo_WLAN      | CHECK       | Hank   | DAY |
|            | PART NO | F-00-S1-6014-001-00       | APPROVE     | Locker | DAY |
|            | MODE    | FOR MP BUILD              | REV         | S01    |     |
|            | SCALE   | FREE                      | THIRD ANGLE |        |     |
|            | UNIT    | MM                        |             |        |     |

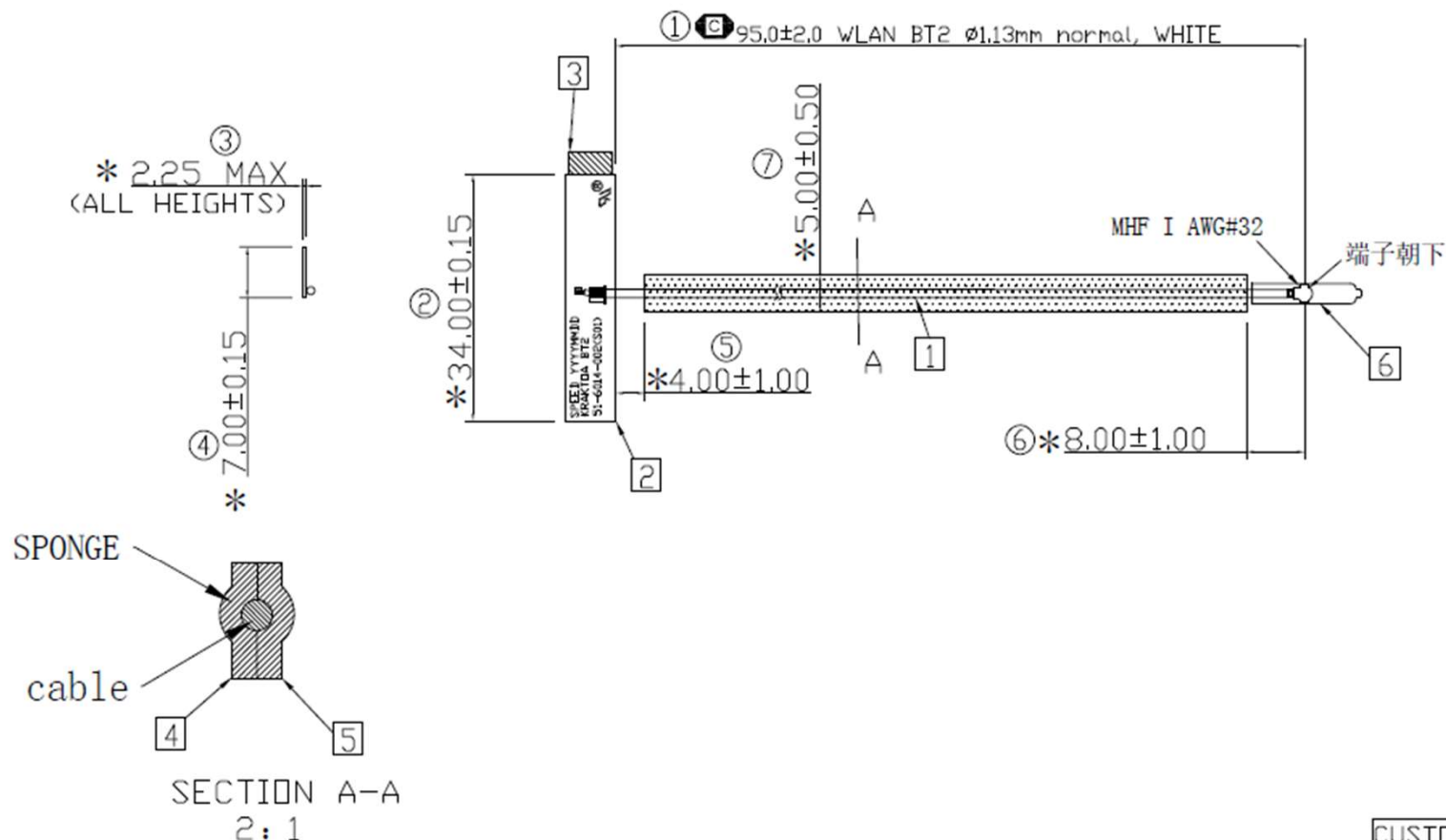


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Huizhou speed wireless technology co.,ltd.

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7. PRODUCTS MUST MEET RoHS2.0 & SPEED REGULATION OF HAZARDOUS SUBSTANCES.

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|------|--------|-------------------|----------|-----------|------|
|      |        | DRAWING AS ISSUED | NIKO     | JUN.16.26 |      |



CUSTOMER P/N 0790A2516L-A02

| ITEM | PART NUMBER         | PART NAME                                                            | QTY |
|------|---------------------|----------------------------------------------------------------------|-----|
| 5.   | M-Y1-51-6014-002-20 | SPONGE 02(泡棉02)<br>(83.0 x 5.0 x 1.0mm, SPONGE(E-4308,INDAC))        | 1   |
| 4.   | M-Y1-51-6014-001-20 | SPONGE 01(泡棉01)<br>(83.0 x 5.0 x 1.0mm, SPONGE(E-4308,INDAC+3M9795)) | 1   |
| 3.   | M-Y4-51-6014-002-00 | DOUBLE SIDED TAPE 02                                                 | 1   |
| 2.   | M-Z2-51-6014-002-00 | PCB_verkada_kraktoo_BT2                                              | 1   |
| 1.   | S-D1-51-6014-002-W0 | 1.13mm COAXIAL CABLE ASSEMBLY                                        | 1   |

## TOLERANCES

|                          |            |
|--------------------------|------------|
| □.                       | $\pm 0.50$ |
| □.□                      | $\pm 0.25$ |
| □.□□                     | $\pm 0.10$ |
| ANGULAR $\pm 1.00^\circ$ |            |

|         |                           |                                                                                                   |                                                                                       |                                                               |     |  |
|---------|---------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------|-----|--|
| TITLE   | verkada_kraktoa_WLAN_BT_2 |                                                                                                   | DESIGN                                                                                | Niko                                                          | DAY |  |
| PROJECT | verkada_kraktoa_WLAN      |                                                                                                   | CHECK                                                                                 | Hank                                                          | DAY |  |
| PART NO | F-00-51-6014-002-00       |                                                                                                   | APPROVE                                                                               | Locker                                                        | DAY |  |
| MODE    | FDR MP BUILD              |                                                                                                   | REV                                                                                   | S01                                                           |     |  |
| SCALE   | FREE                      | THIRD ANGLE  |  | 惠州硕贝德无线科技股份有限公司<br>Huizhou speed wireless technology co.,ltd. |     |  |
| UNIT    | MM                        |                                                                                                   |                                                                                       |                                                               |     |  |

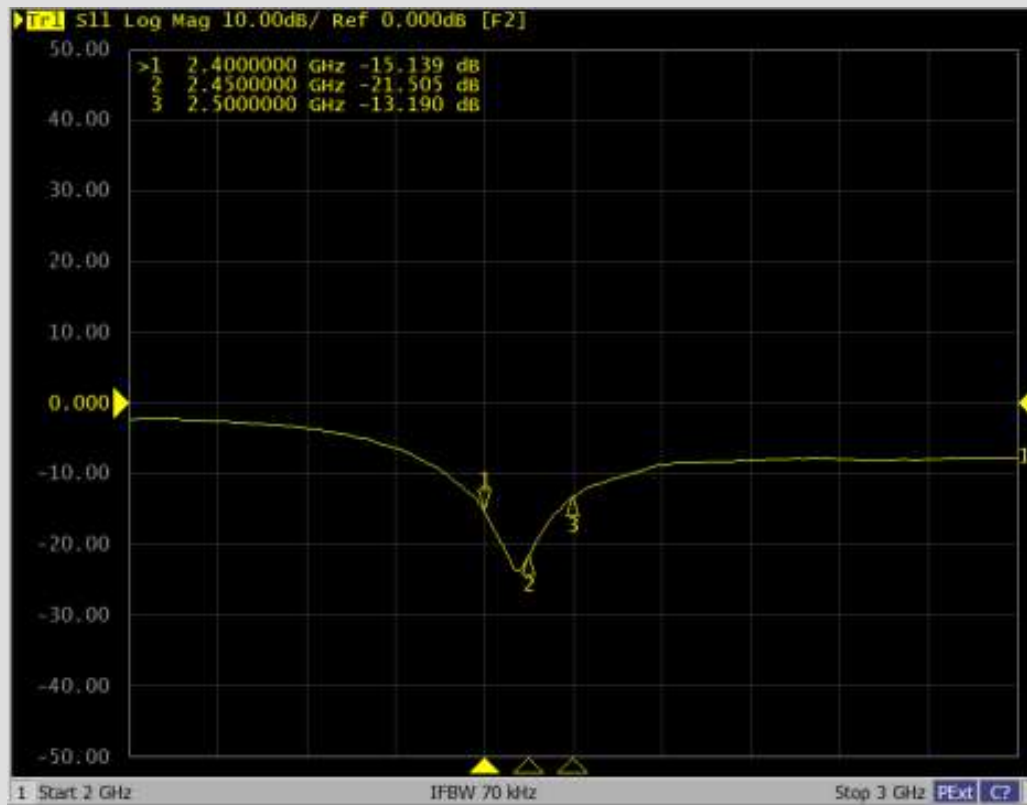


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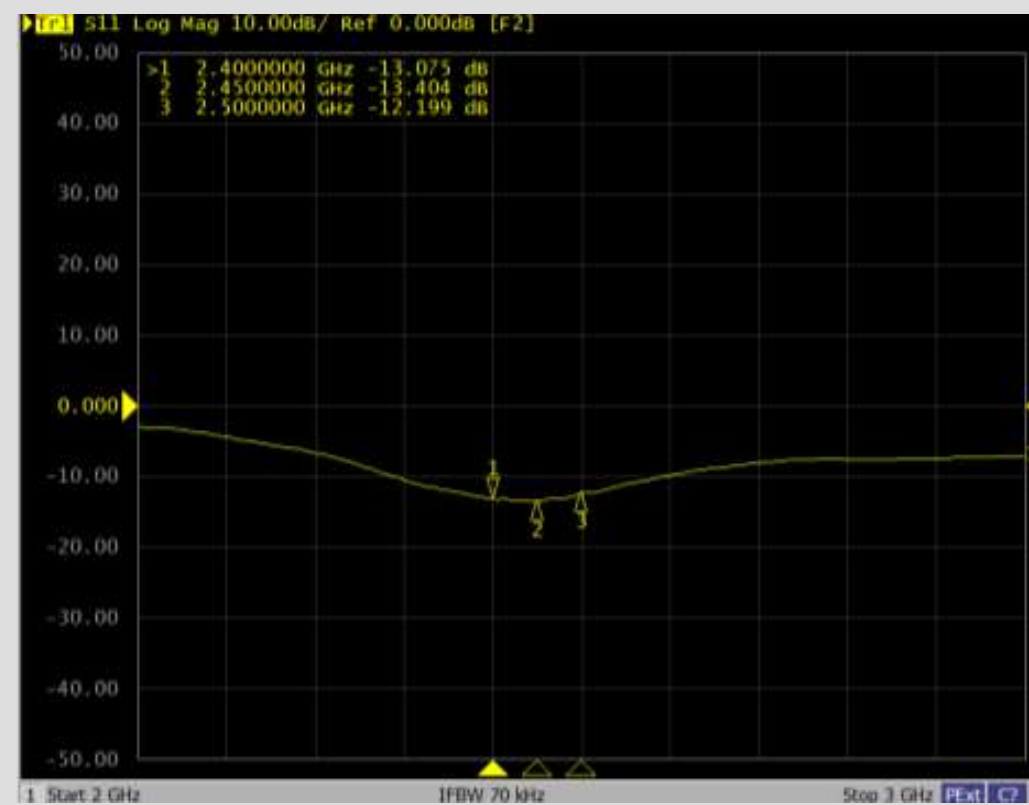
# Return loss



ANT1



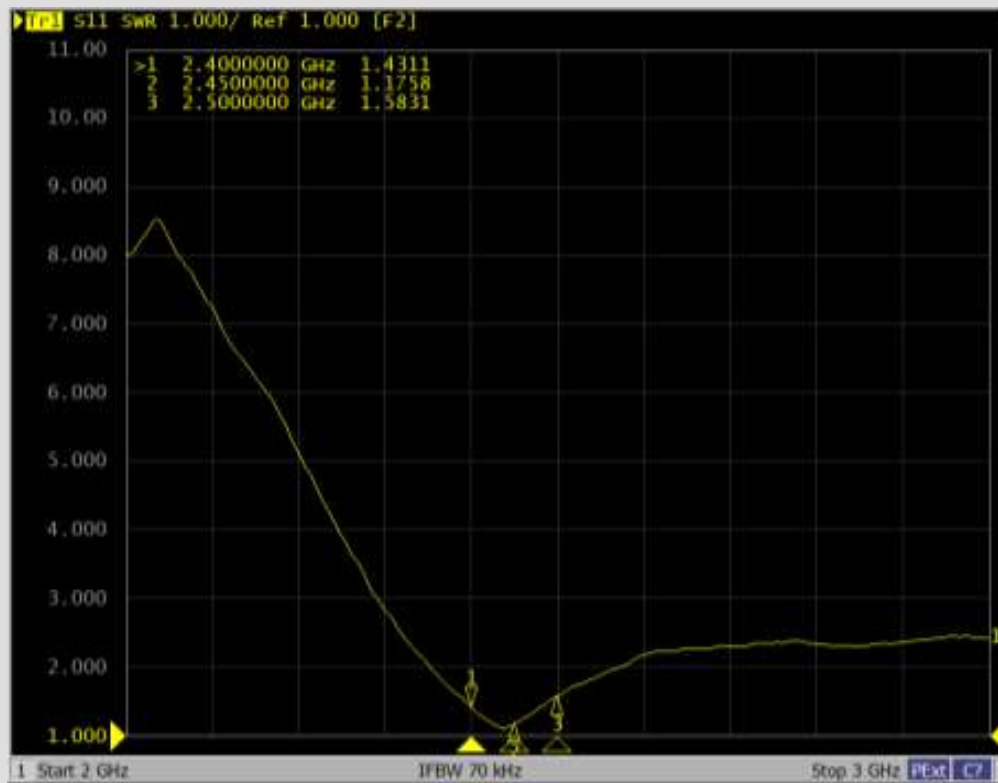
ANT2



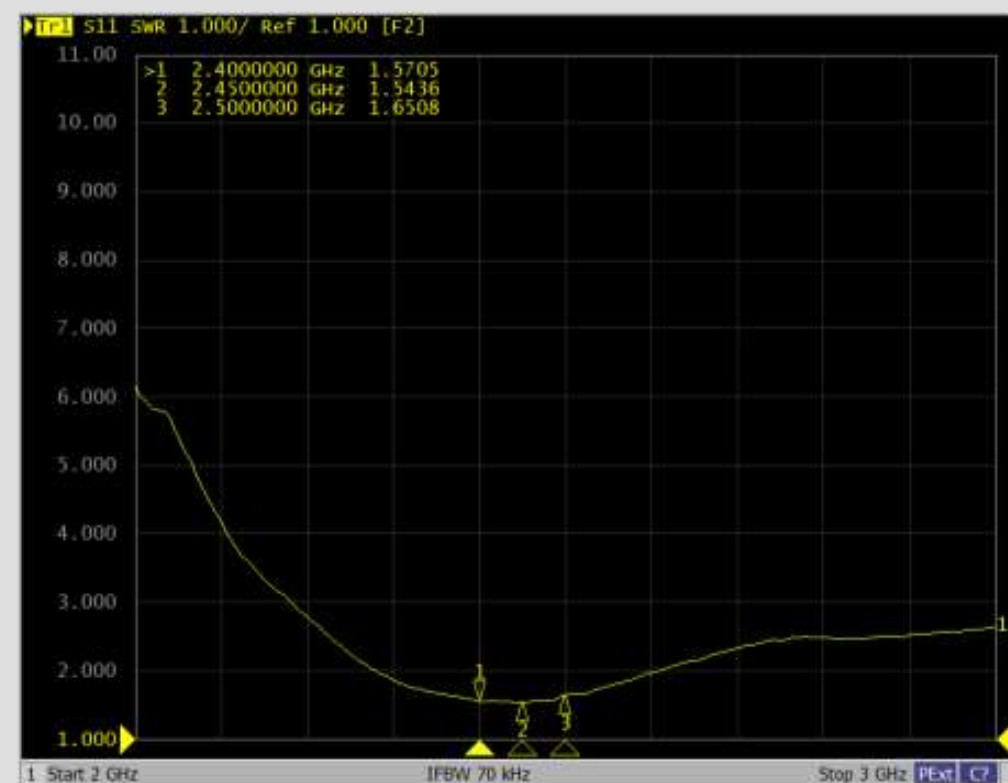
# VSWR



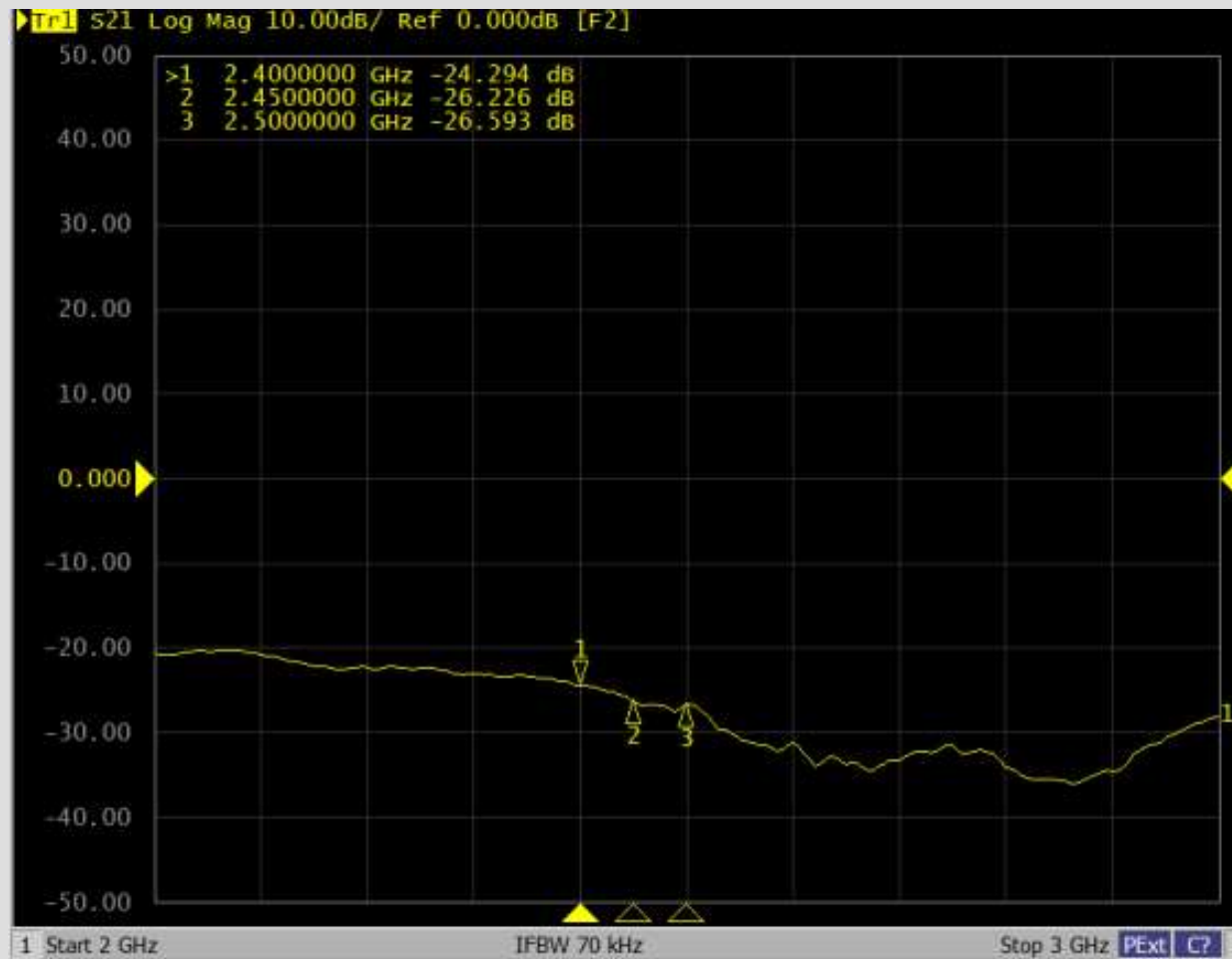
ANT1



ANT2



# Isolation



# 3D Gain Total



## ANT1

| Frequency (MHz) | Peak Gain (dBi) | 3D Gain (dBi) | 3D Radiation Efficiency (%) |
|-----------------|-----------------|---------------|-----------------------------|
| 2400            | 3.29            | -2.86         | 51.73                       |
| 2412            | 3.49            | -2.75         | 53.12                       |
| 2427            | 3.50            | -2.70         | 53.71                       |
| 2442            | 3.40            | -2.62         | 54.70                       |
| 2450            | 3.31            | -2.58         | 55.17                       |
| 2457            | 3.19            | -2.59         | 55.12                       |
| 2472            | 2.90            | -2.69         | 53.78                       |
| 2484            | 2.92            | -2.80         | 52.52                       |
| 2500            | 2.84            | -2.77         | 52.87                       |

## ANT2

| Frequency (MHz) | Peak Gain (dBi) | 3D Gain (dBi) | 3D Radiation Efficiency (%) |
|-----------------|-----------------|---------------|-----------------------------|
| 2400            | 3.10            | -2.87         | 51.60                       |
| 2412            | 3.23            | -2.80         | 52.53                       |
| 2427            | 3.04            | -2.58         | 55.15                       |
| 2442            | 3.40            | -2.65         | 54.33                       |
| 2450            | 3.19            | -2.45         | 56.90                       |
| 2457            | 3.46            | -2.32         | 58.57                       |
| 2472            | 3.39            | -2.39         | 57.66                       |
| 2484            | 3.23            | -2.52         | 55.91                       |
| 2500            | 3.11            | -2.62         | 54.68                       |

**THE END**