



## **AR300 Antenna Check Sheet**



# Antenna Check Sheet

Date: 2026/03/05

## Revision History:

| Version | Date       | Change Description |
|---------|------------|--------------------|
| 1.0     | 2026/03/05 | New Release        |
|         |            |                    |
|         |            |                    |
|         |            |                    |
|         |            |                    |
|         |            |                    |



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# Antenna Check Sheet

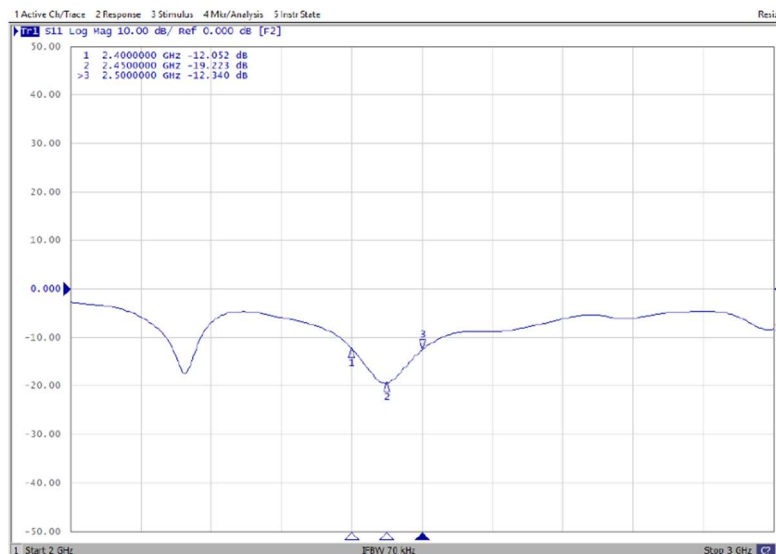
Date: 2026/03/05

## Antenna Specification

| Ant . | Antenna Brand | Antenna. model         | Antenna type | Antenna Gain (dBi) | Frequency Range (MHz) | Connector type | Cable length (cm) | Cable Loss          |
|-------|---------------|------------------------|--------------|--------------------|-----------------------|----------------|-------------------|---------------------|
| #1    | PSA           | RFFPA312310I<br>MAB301 | PIFA         | 3.11               | 2400~2500             | IPEX           | 10                | 已計入<br>antenna gain |
| #2    | PSA           | RHNFC67480<br>3ZMNBX01 | Coil         | NA                 | 13.5                  | NA             | X                 | X                   |
| #3    | PSA           | RFNFC11680<br>0NNZB001 | Coil         | NA                 | 0.125                 | NA             | X                 | X                   |

## Test Result:

### ANT1 Return Loss:

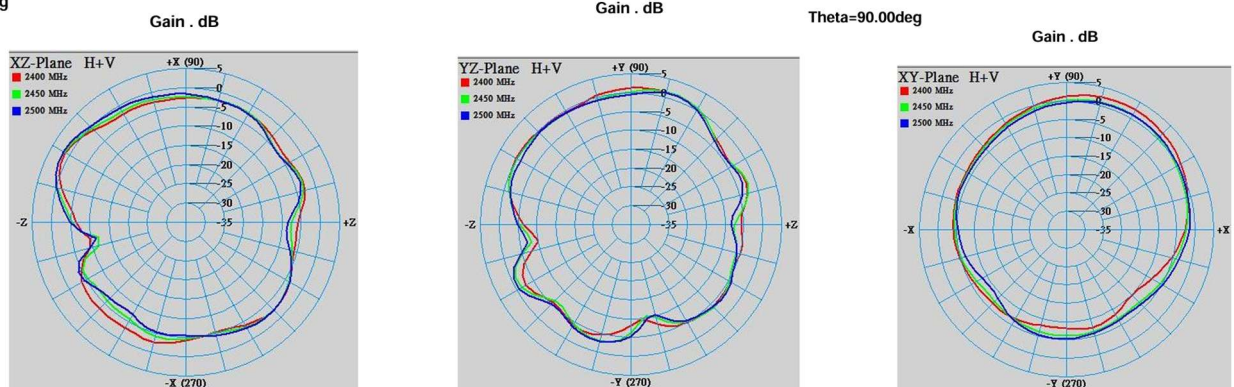


### ANT1 Return Loss 2D Radiation Patterns:

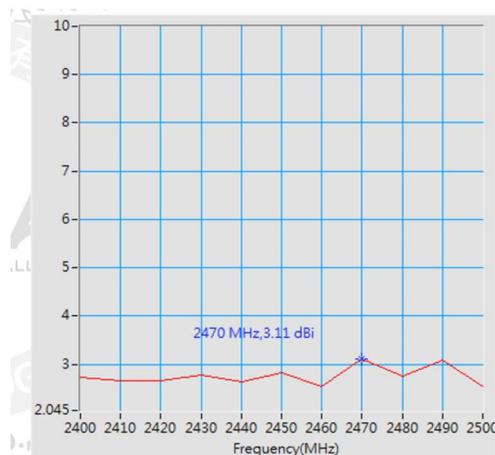
Phi=0.00deg

Phi=90.00deg

Theta=90.00deg

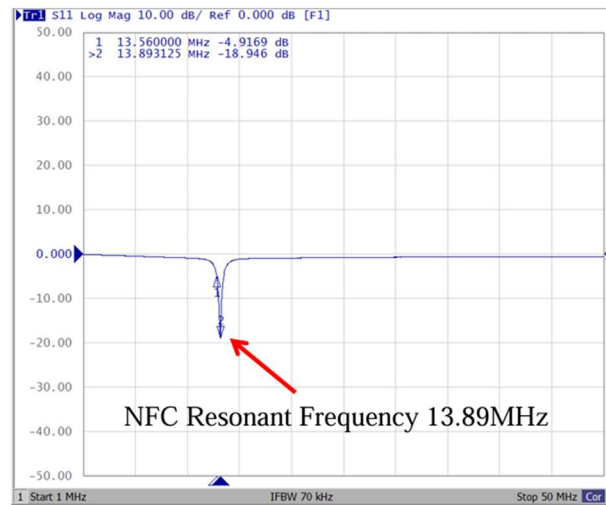


### ANT1 Antenna Gain:

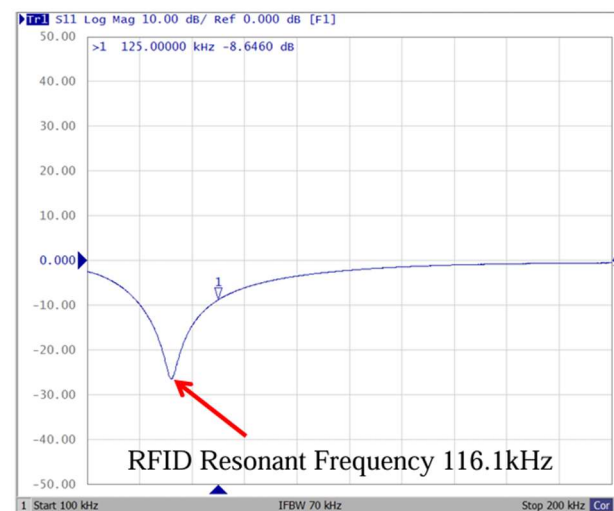


Maximum Peak Gain at 2470 MHz : 3.11 dBi

### ANT2 Return Loss:



### ANT3 Return Loss:



### Antenna Vendor information:

Antenna Vendor: INPAQ Technology Corporation



Test date: 2026/01/30

Test Engineer: Gary

Address of test site: No. 90, Keyi St., Zhunan Township, Miaoli County 350402, Taiwan (R.O.C.)

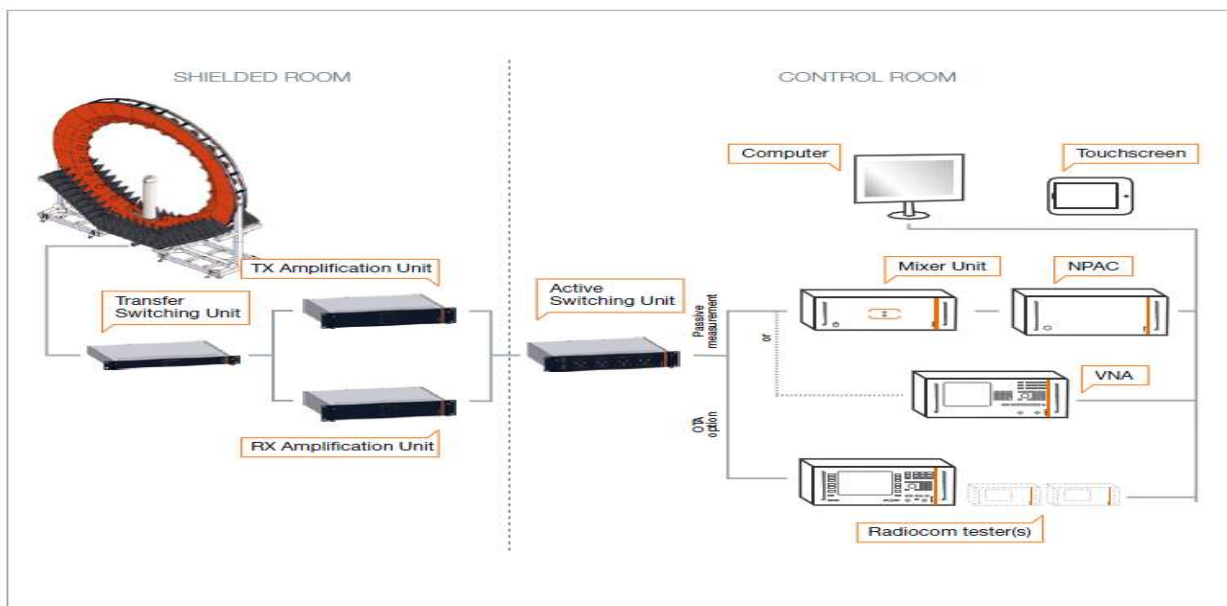
### Measurement Setup:

Reflection Coefficient Measurement:

-Instrument : E5071C

-Setup:

### System overview:





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### Measurement procedure:

Fasten the EUT in the center of the jig on Multi-Axis Positioning System, record the coordinates and take pictures. Make sure the transmit signal is stable and at the maximum RF power level. The EUT is then stepped between 0 to 360 degrees along the horizontal plane in 15-degree increments. Data is recorded using the signal analyzer for both theta and phi polarizations at each position. Rotate the EUT with 90 degree and repeat step until all 3 planes were measured. Change EUT setup to transmit the RF power on 2400MHz, 2450MHz and 2500MHz respectively. Find the highest peak EIRP recorded from measurement data for all 3 planes.

### Test instrument calibration information:

| Vendor                       | Model  | Calibrated Date | Calibrated Until |
|------------------------------|--------|-----------------|------------------|
| Keysight<br>Network Analyzer | E5071C | 2025/3/3        | 2026/3/3         |