

## NFT2AX

NFT2AX antenna is one layer PCB containing 4 antennas. Two antennas (ANT\_1 and ANT\_2) are operating in 2.4-2.5GHz band and 2 others (ANT\_3 and ANT\_4) are working in band 5.1-5.85GHz. Arrangement of the antennas is presented in Fig.1. below.

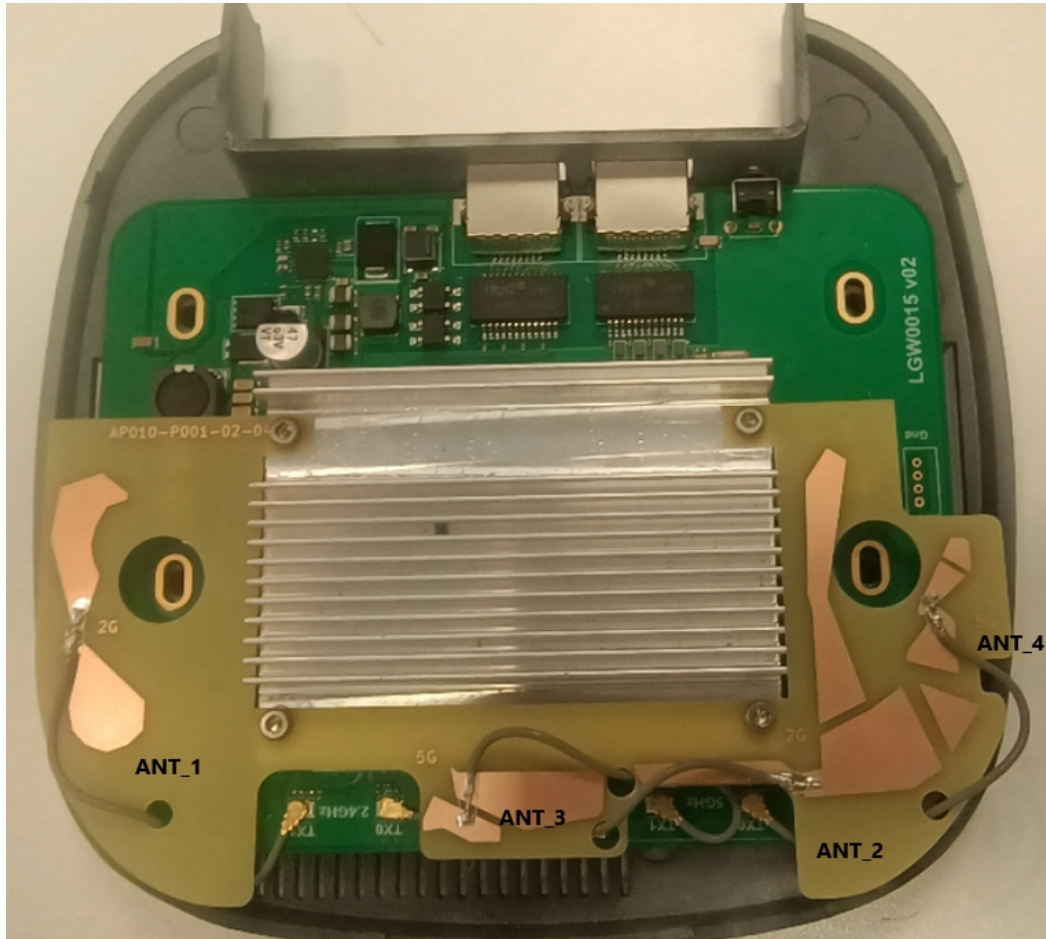


Fig.1. Antennas arrangement in NFT 2AX.

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## Parameters:

**ANT\_1 and ANT\_2 Frequency band 2.4-2.5GHz**

### **VSWR**

$VSWR_{MAX} < 1.8$  for both antennas

$VSWR_{AWR} \approx 1.65$  for ANT\_1

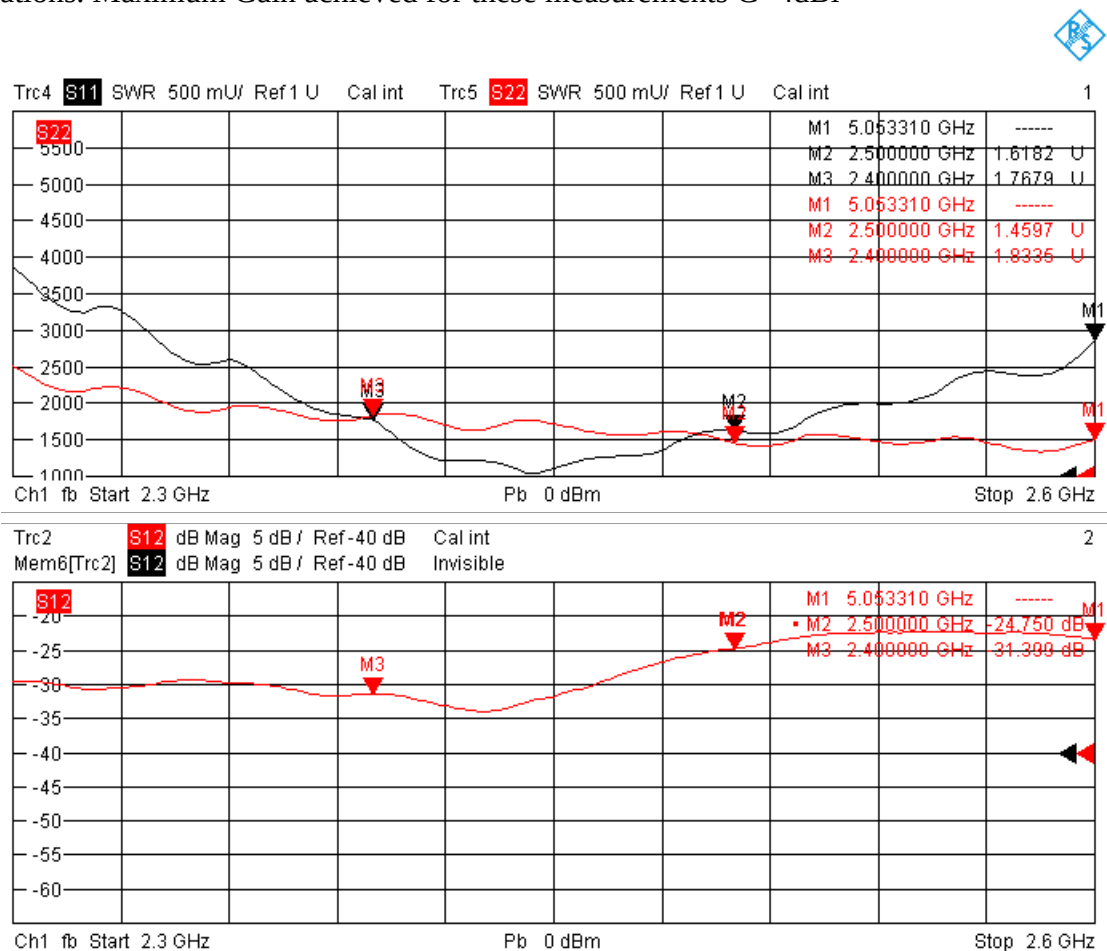
$VSWR_{AWR} \approx 1.4$  for ANT\_2

**Isolation** between ANT\_1 and ANT\_2 (transmission measured):

$Isolation_{min} > 24dB$

### **Gain**

Measurements were conducted in XY, XZ, and YZ planes for Horizontal and Vertical polarizations. Maximum Gain achieved for these measurements  $G=4dBi$



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Fig.2. Measured VSWR ( ANT\_1 – RED and ANT\_2- BLACK at top figure) and isolation (bottom figure S12)

## ANT\_3 and ANT\_4 Frequency band 5.1-5.9GHz

### VSWR

$VSWR_{MAX} < 1.75$  for both antennas

$VSWR_{AWR} \approx 1.4$  for ANT\_3

$VSWR_{AWR} \approx 1.5$  for ANT\_4

**Isolation** between ANT\_3 and ANT\_4 (transmission measured):

$Isolation_{min} > 25dB$

### Gain

Measurements were conducted in XY, XZ, and YZ planes for Horizontal and Vertical polarizations. Maximum Gain achieved for these measurements  $G=5dBi$

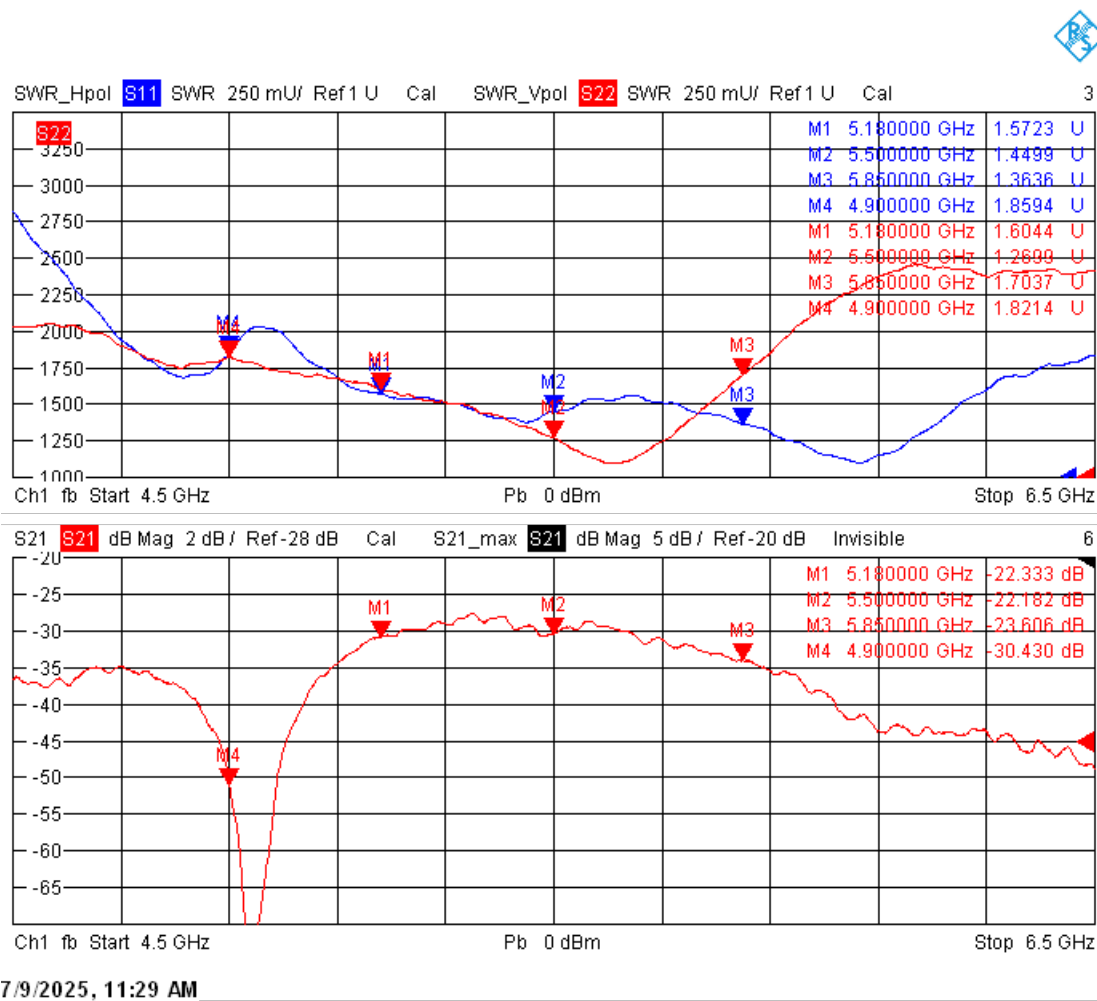
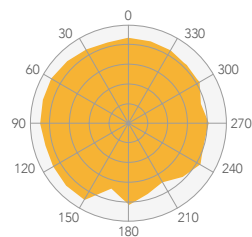


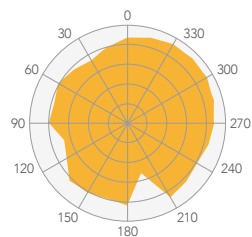
Fig.3. Measured VSWR ( ANT\_3 – RED and ANT\_4- BLUE at top figure) and isolation (bottom figure S12)

Antenna specifications

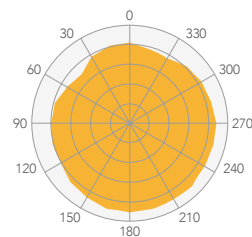
2.4GHz



XZ Plane

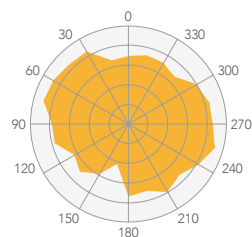


YZ Plane

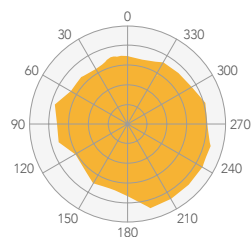


XY Plane

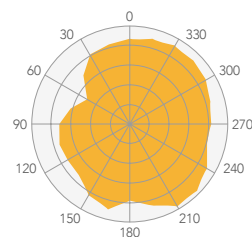
5GHz



XZ Plane



YZ Plane



XY Plane

2.4GHz Integrated Antenna

Frequency Range	2.4 – 2.5GHz
Gain	4dBi
VSWR	1.7:1

5GHz Integrated Antenna

Frequency Range	5.1 – 5.9GHz
Gain	5dBi
VSWR	2:1