

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

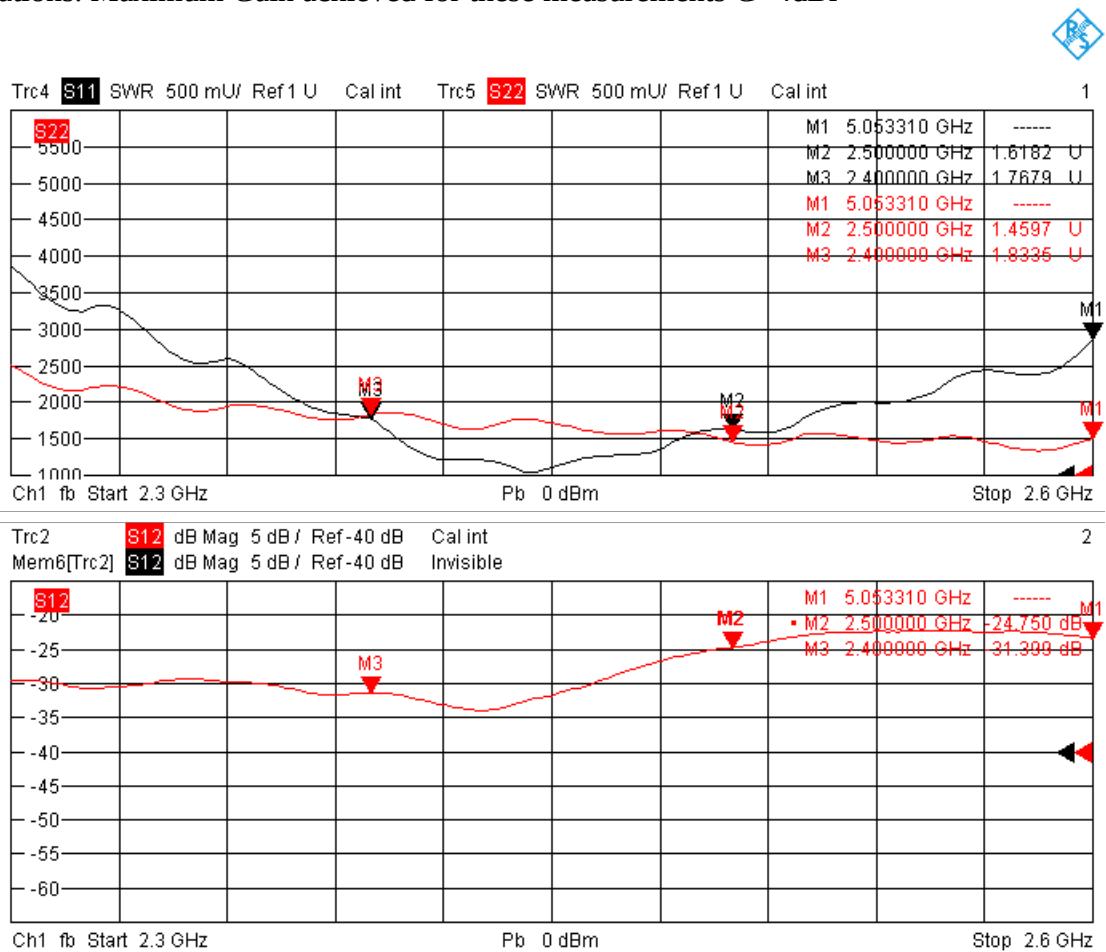
$VSWR_{AWR} \approx 1.4$ for ANT_2

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

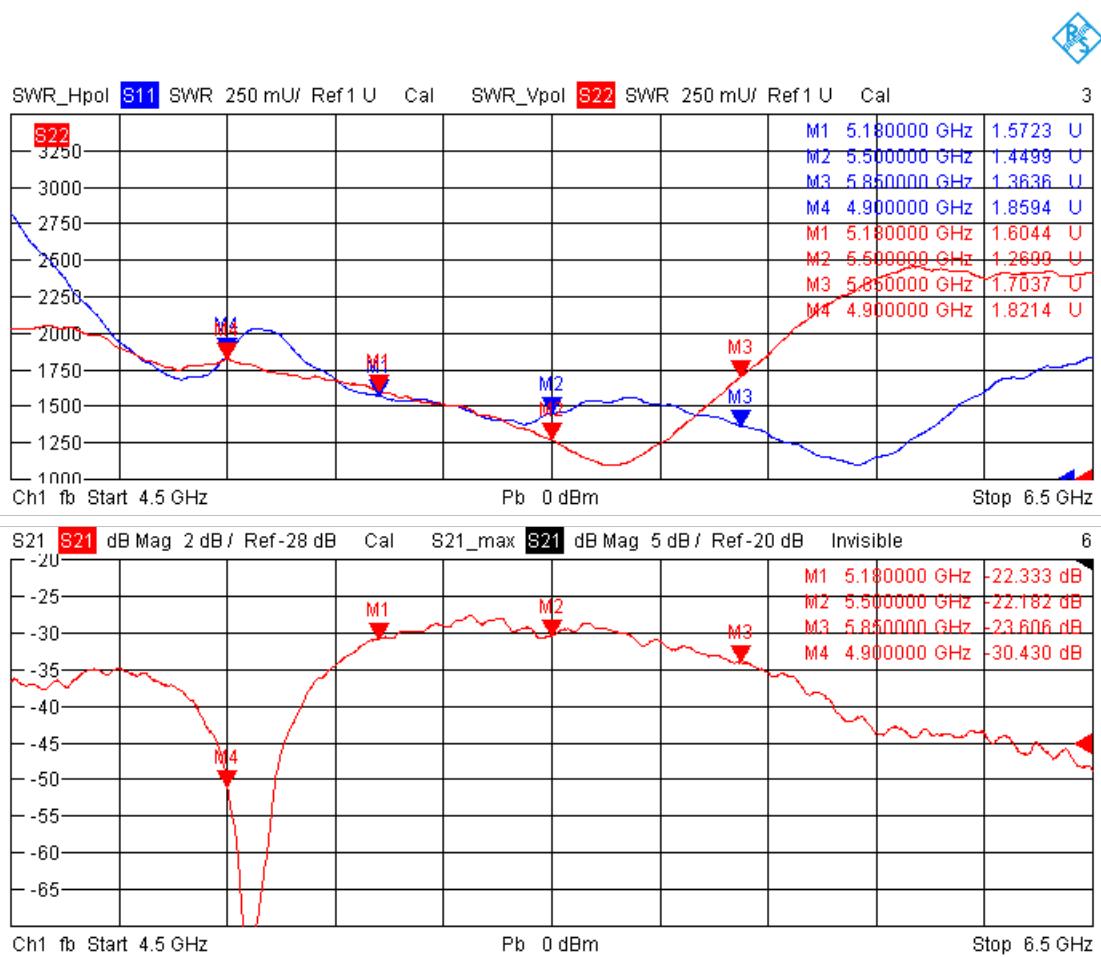
$VSWR_{AWR} \approx 1.5$ for ANT_4

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

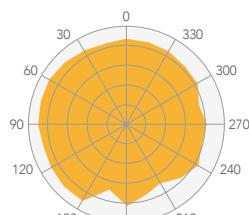


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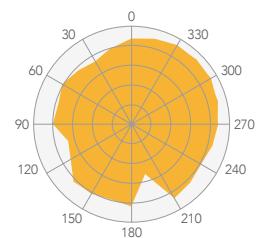
Fig.3. Measured VSWR (ANT_3 – RED and ANT_4- BLUE at top figure) and isolation (bottom figure S12)

Antenna specifications

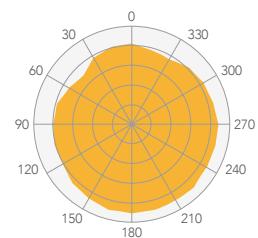
2.4GHz



XZ Plane

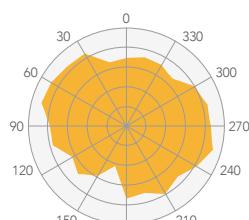


YZ Plane

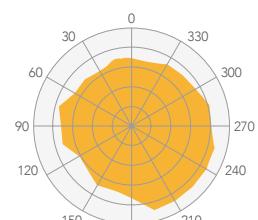


XY Plane

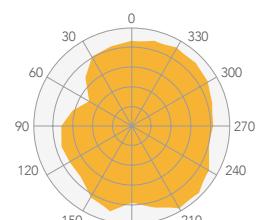
5GHz



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