

*Conical Dual Polarized Horn Antenna
15 Typ. Gain, 2-18 GHz Frequency Range*



Conical Dual Polarized Horn Antenna Data Sheet

RM-CDPHA218-15

Features

- Broadband Operation
- Dual Polarization
- Moderate Gain
- Communication Systems
- Radar Systems
- System Setups

Descriptions

RF MISO's **Model RM-CDPHA218-15** is a dual polarized horn antenna that operates from 2 to 18 GHz. The antenna offers a typical gain of 15 dBi and low VSWR 1.5:1 with SMA-F connector. It has linear polarization and is ideally applied for communication systems, radar systems, antenna ranges and system setups.

Specifications

| RM-CDPHA218-15 | | |
|-----------------------|-----------------|-------|
| Parameters | Typical | Units |
| Frequency Range | 2-18 | GHz |
| Gain | 8-24 | dBi |
| VSWR | ≤2.5 | |
| Polarization | Dual Linear | |
| Cross Pol. Isolation | ≥20 | dB |
| Port Isolation | 40 | dB |
| Connector | SMA-F | |
| Surface Treatment | Paint | |
| Size (L*W*H) | 276*147*147(±5) | mm |
| Weight | 0.945 | kg |
| Material | Al | |
| Operating Temperature | -40-+85 | ° C |

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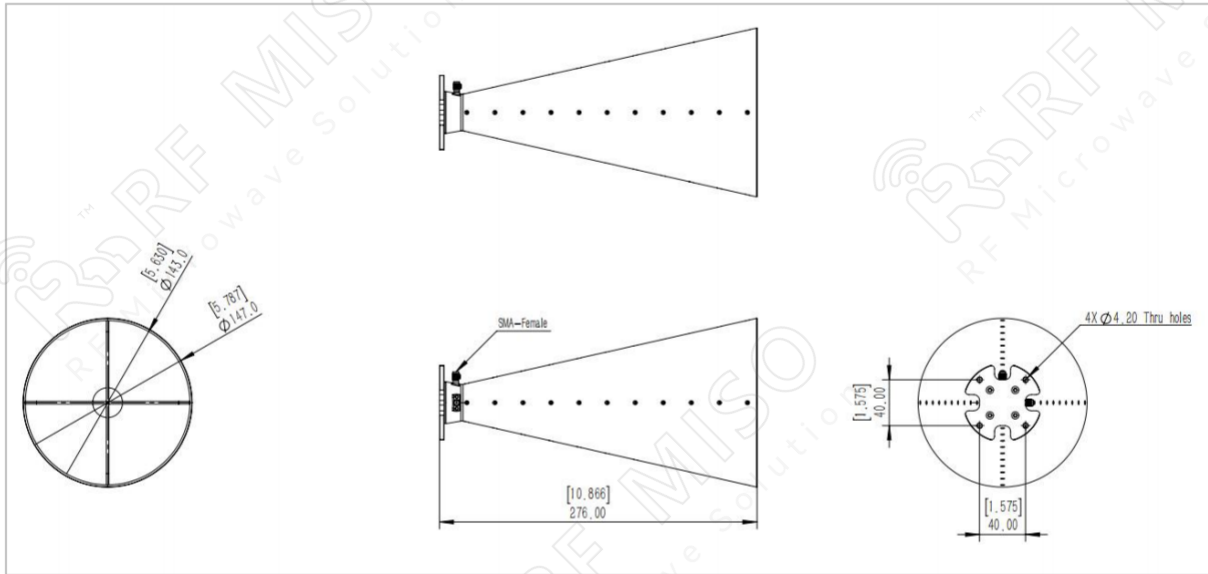


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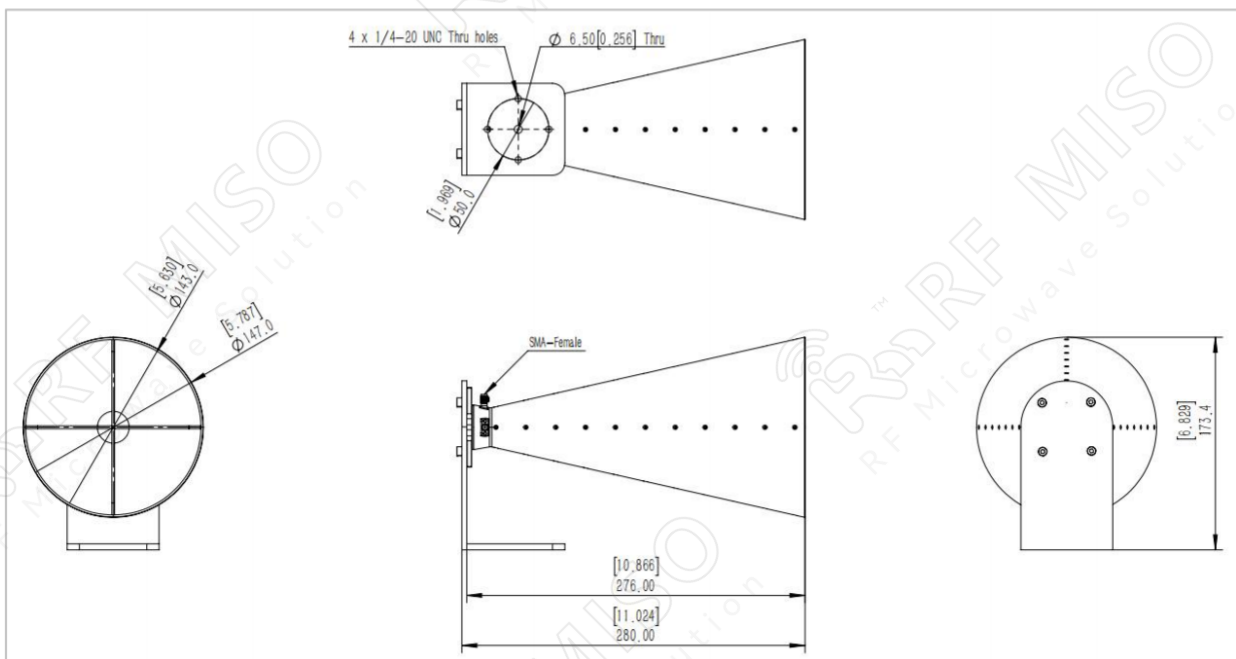
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Outline Drawing

N-type connector is available, please contact RF Miso.



Outline Drawing with L-type Mounting Bracket (P/N: RM-CDPHA218-15L)



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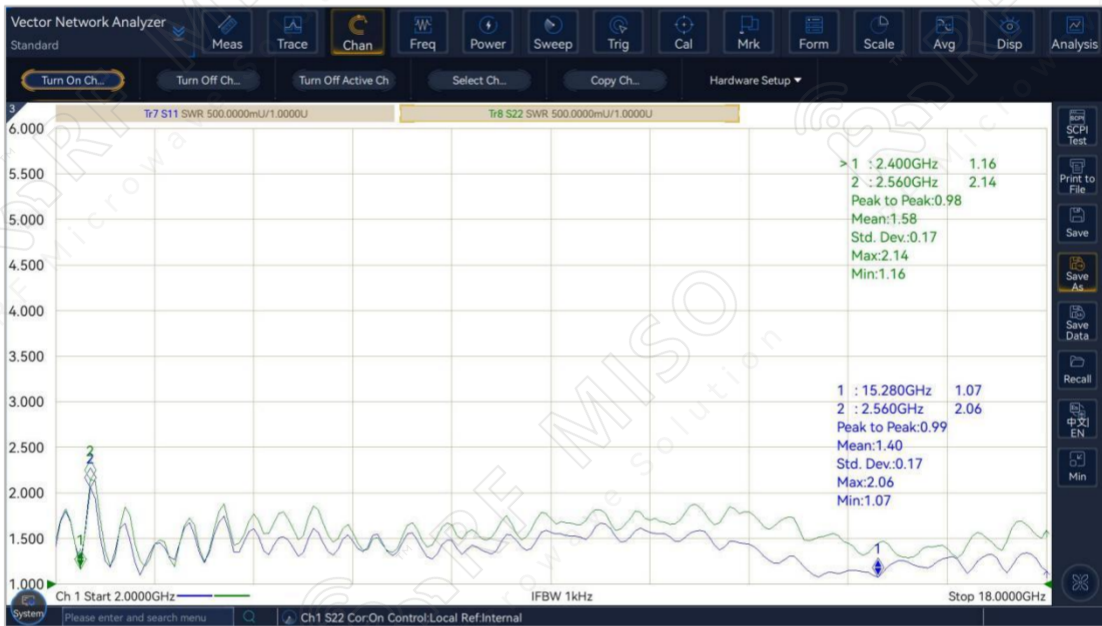


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Test Data

VSWR



Port Isolation



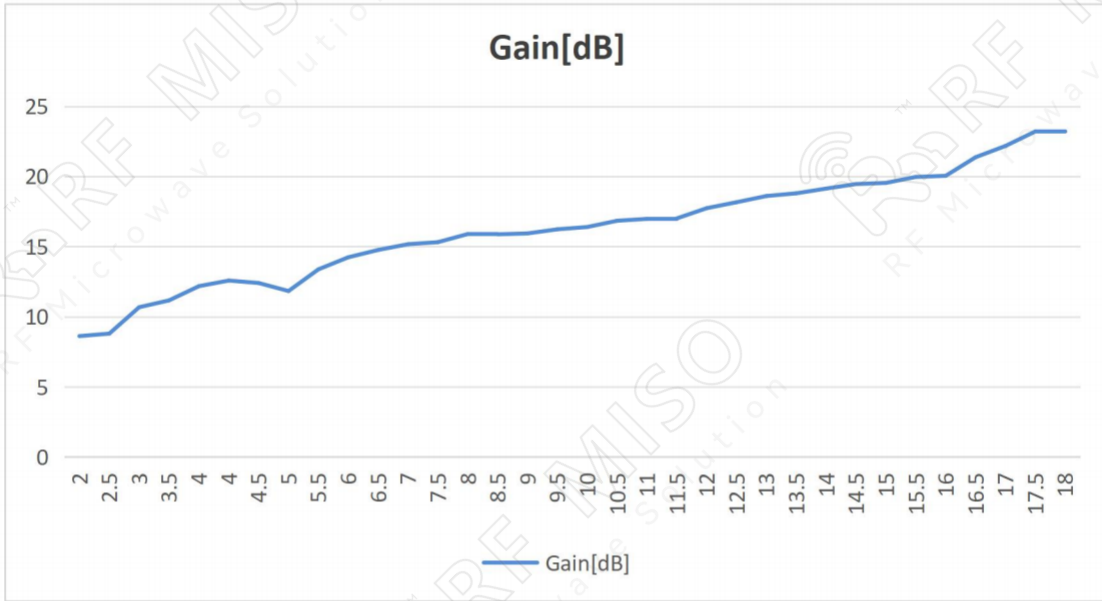
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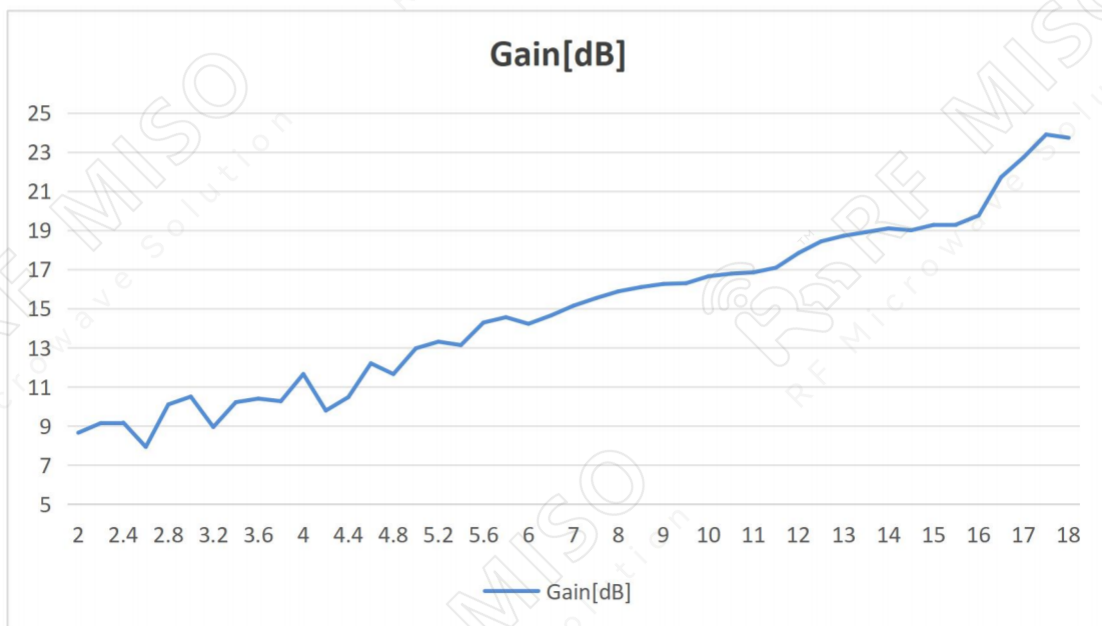
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Gain-port1



Gain-port2

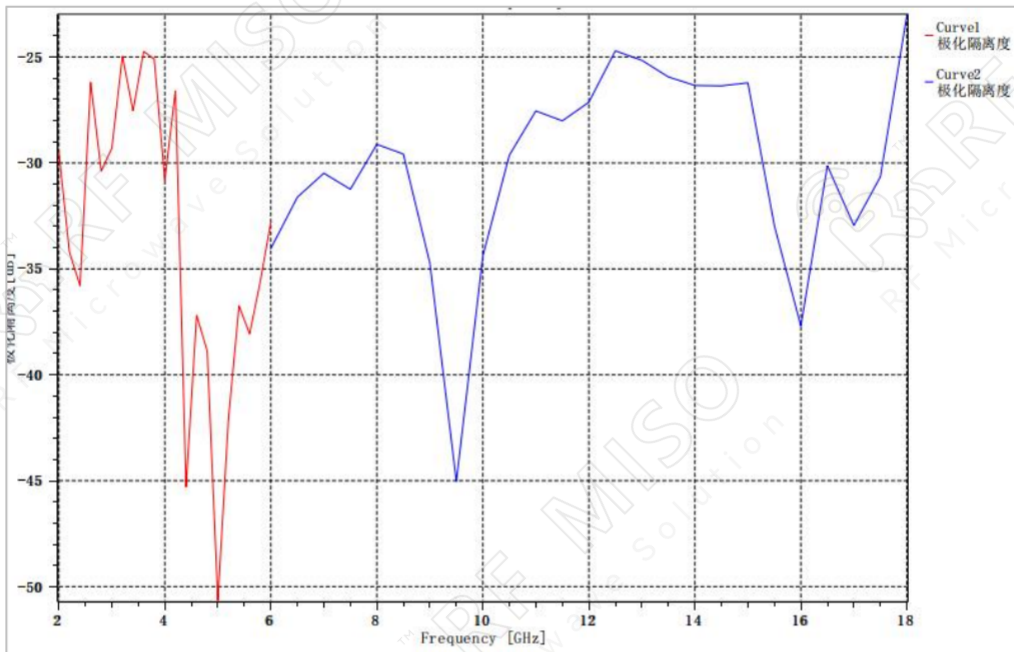




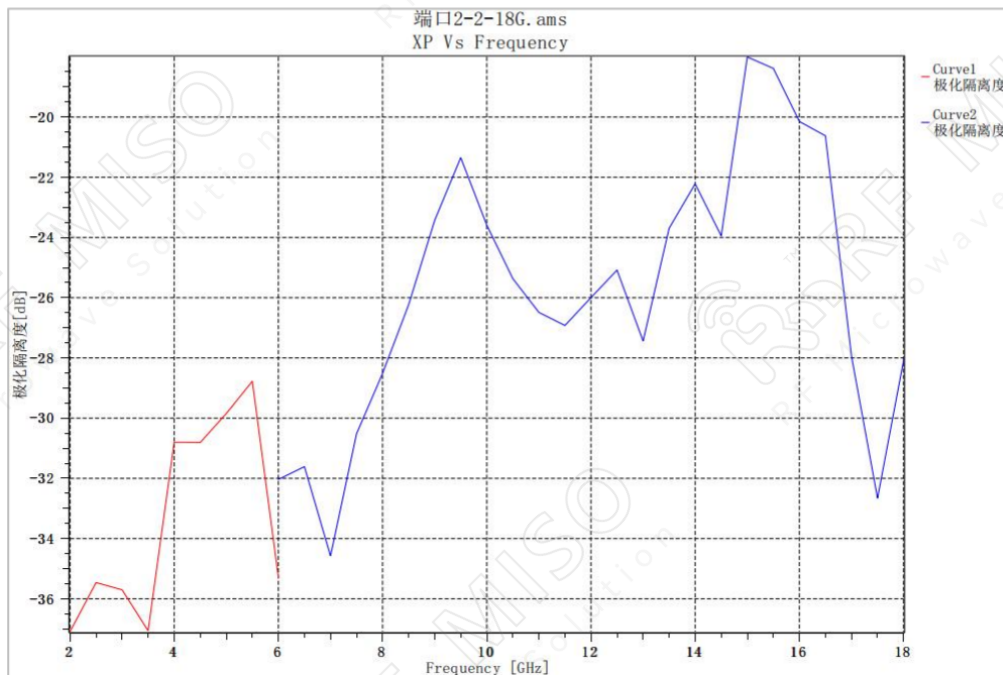
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Cross Pol. Polarization-port1



Cross Pol. Polarization-port2



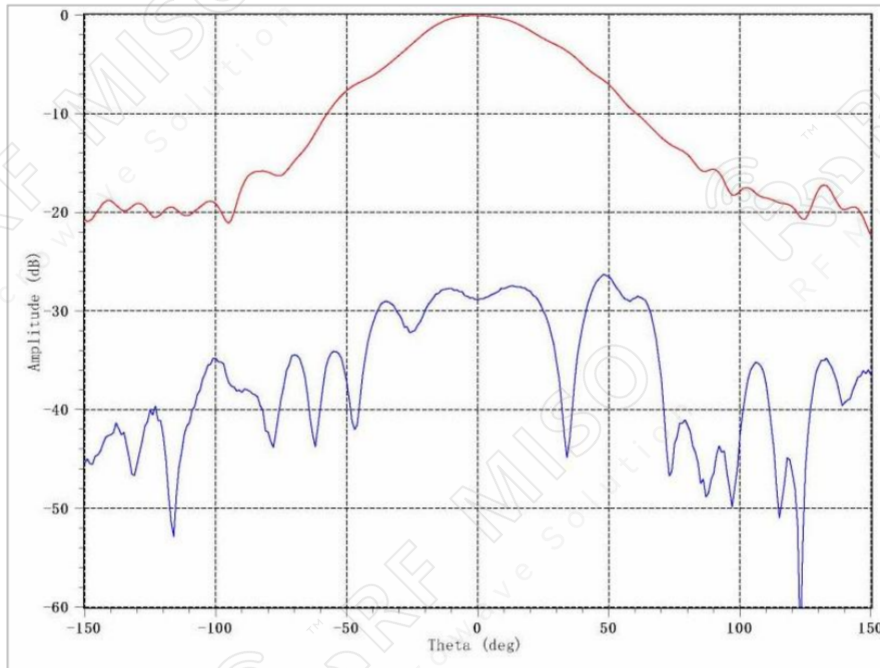
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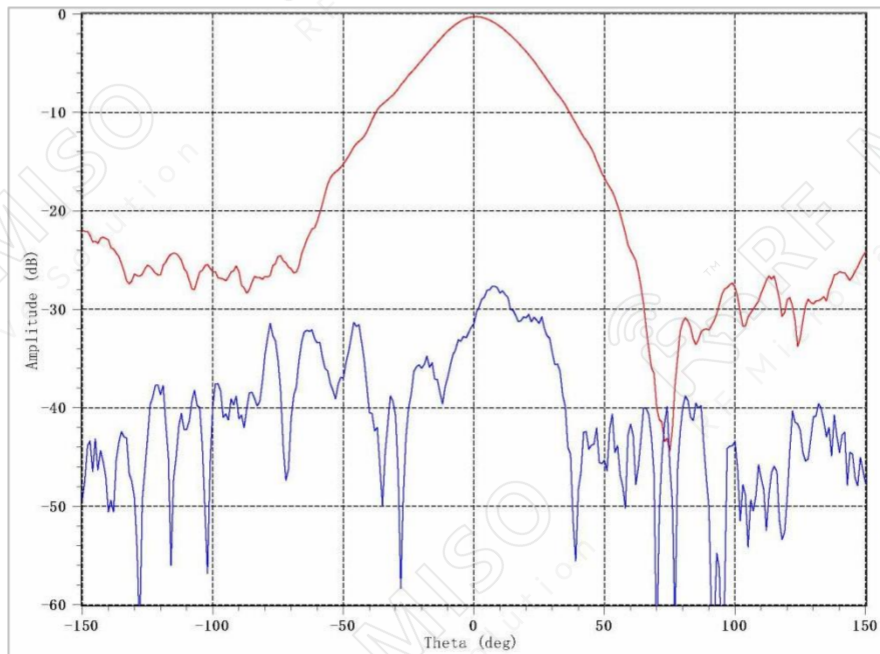
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Radiation pattern- port 1



2GHz



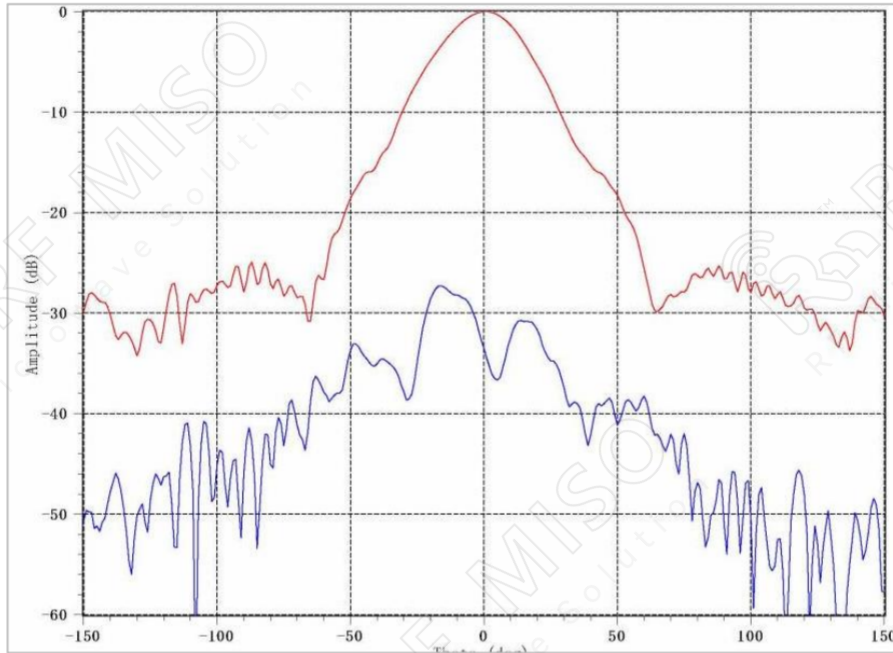
4GHz

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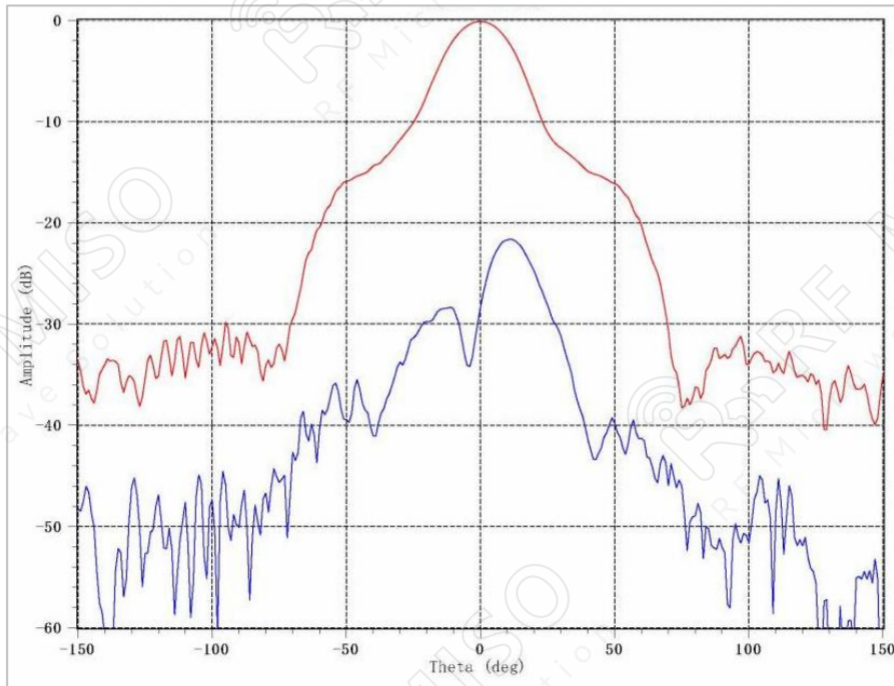


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6GHz



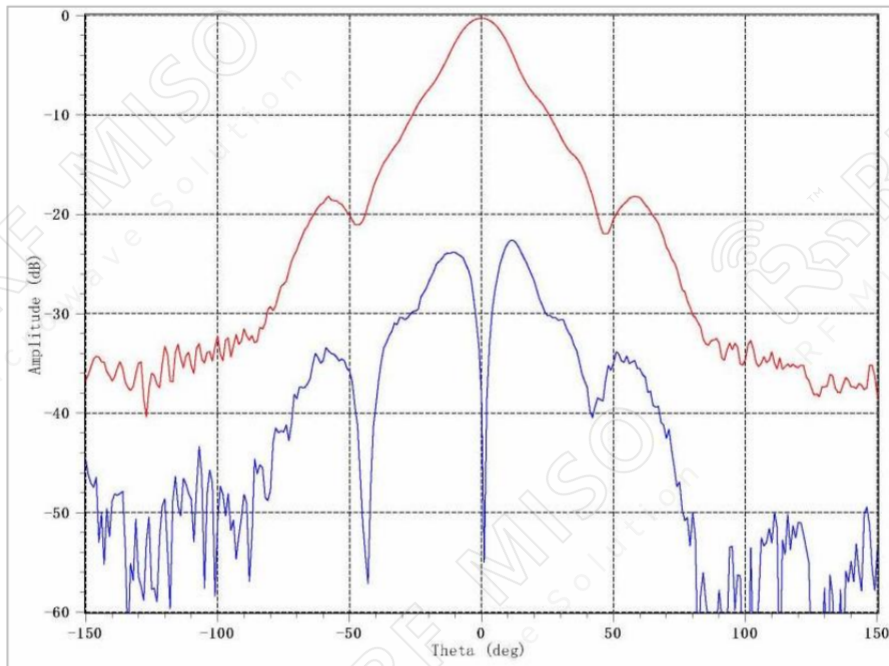
8GHz

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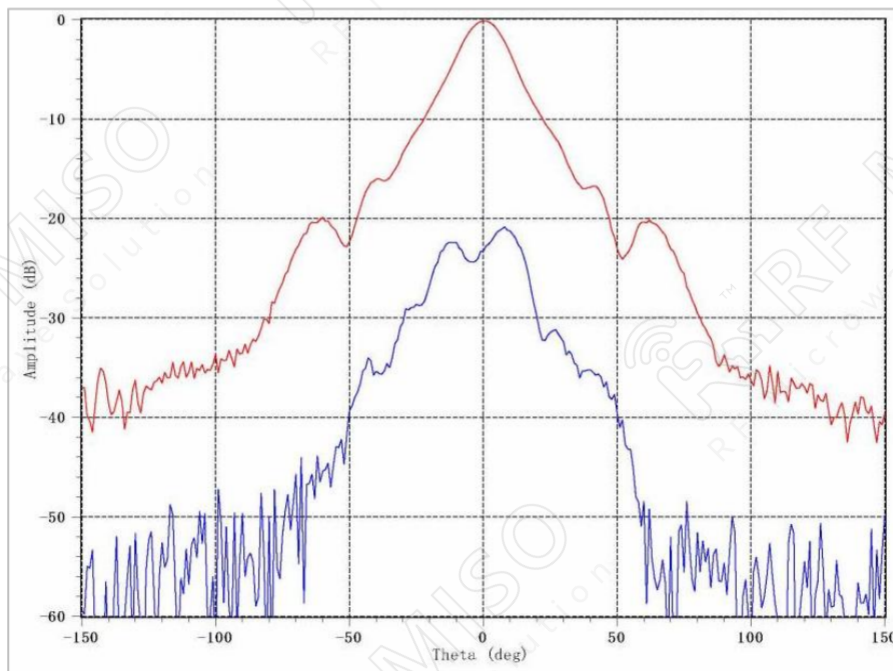


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10GHz



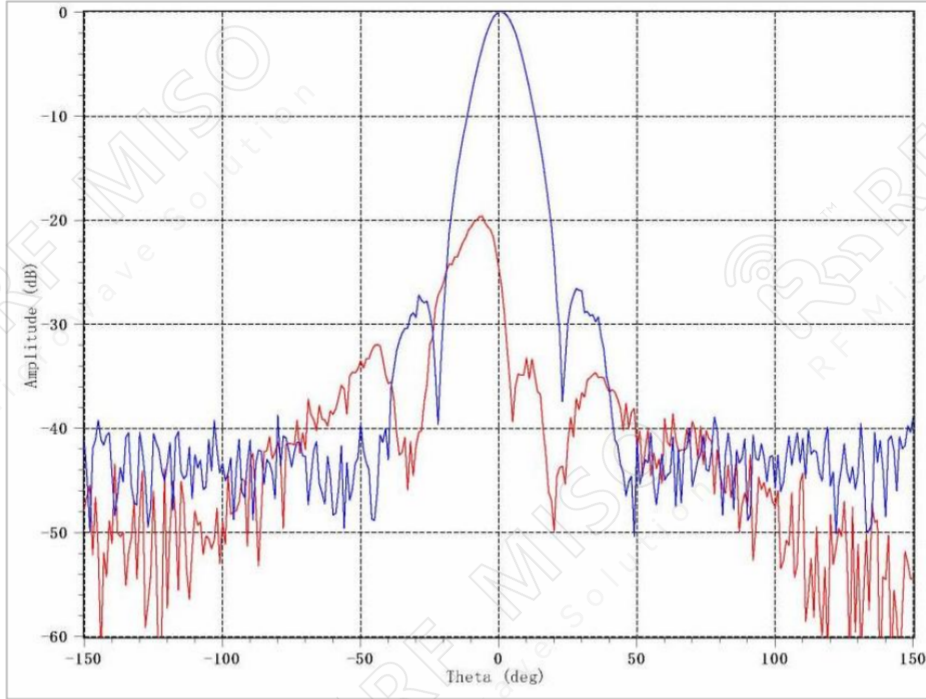
12GHz

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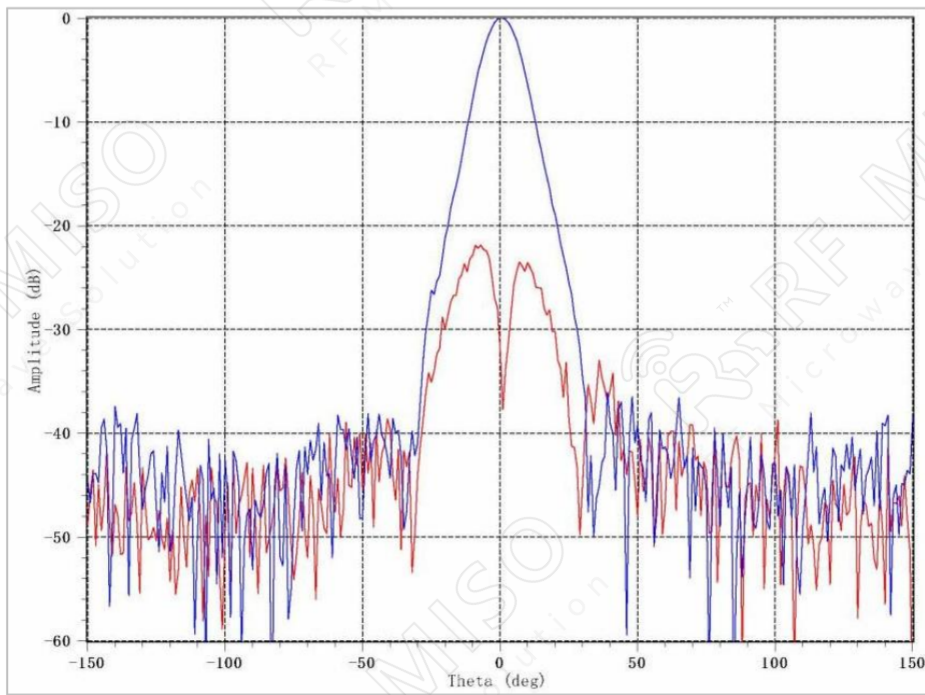


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14GHz



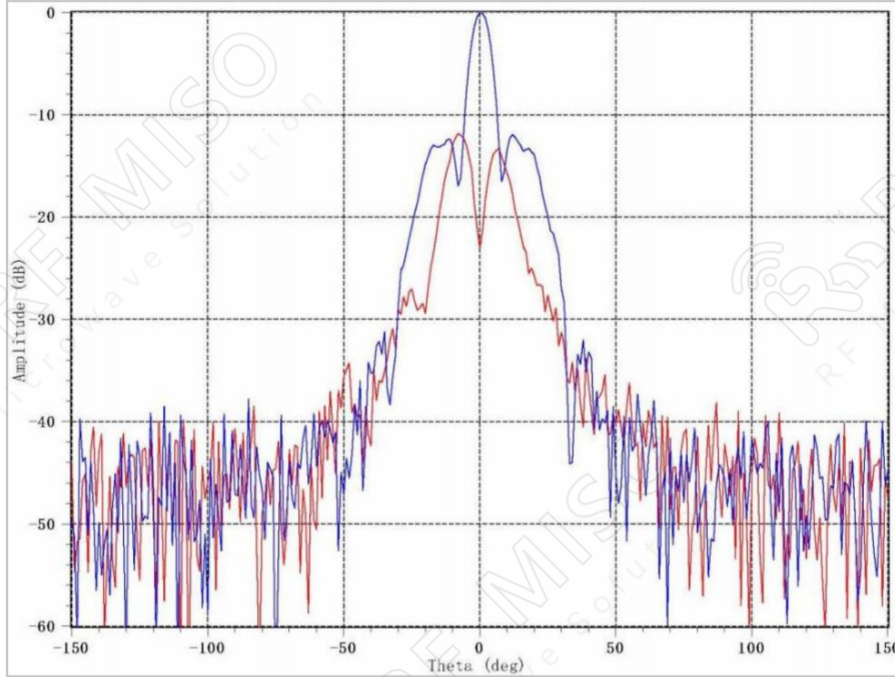
16GHz

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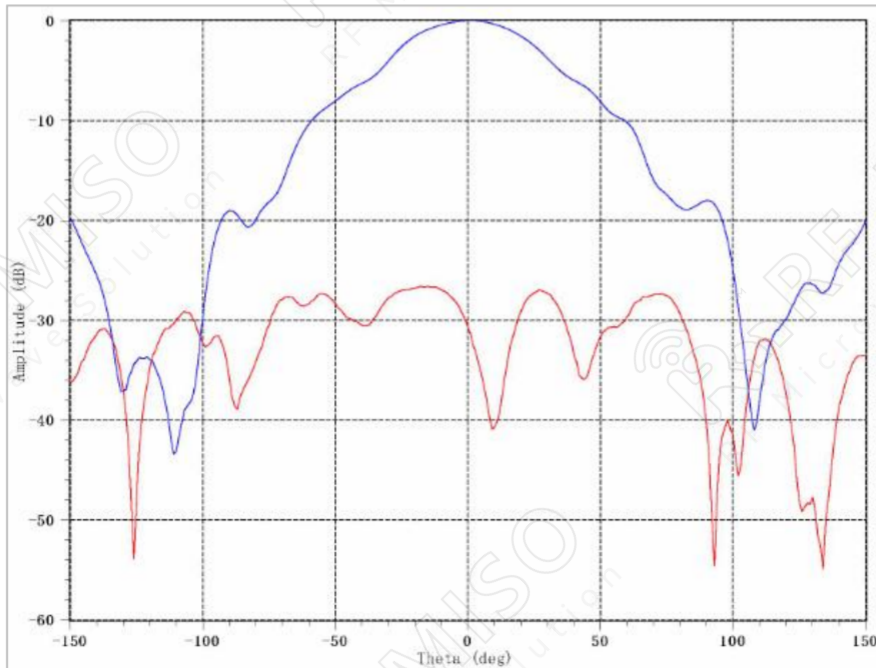
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18GHz

Radiation pattern- port 2



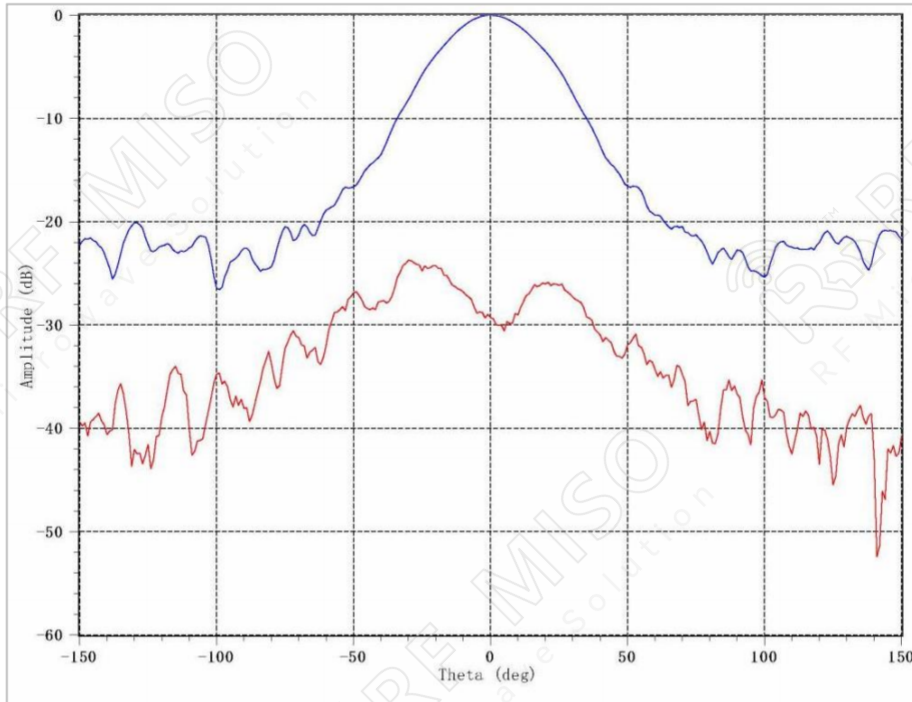
2GHz

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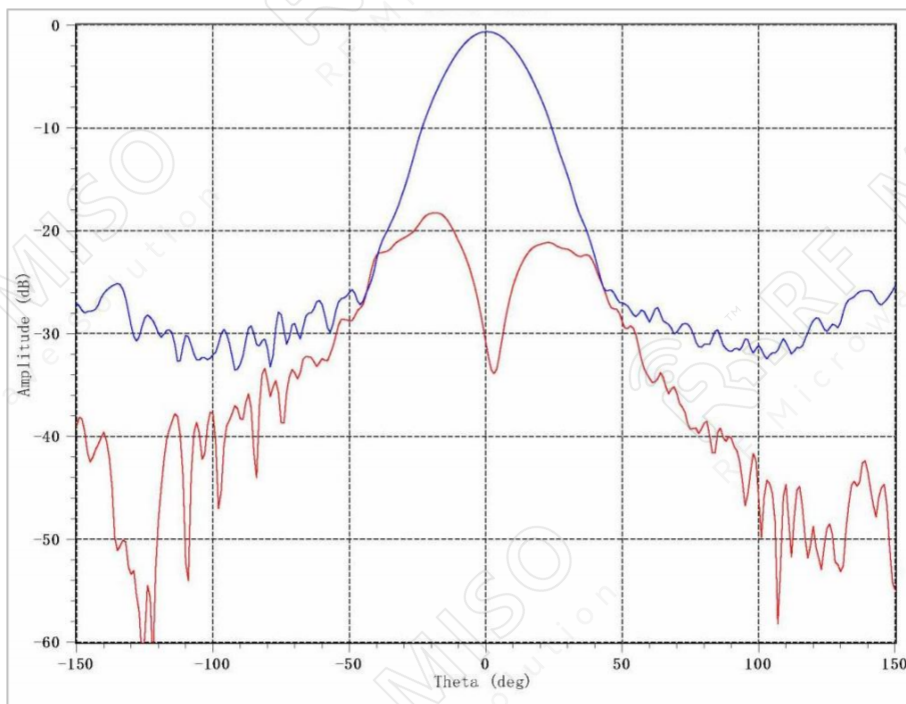


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4GHz



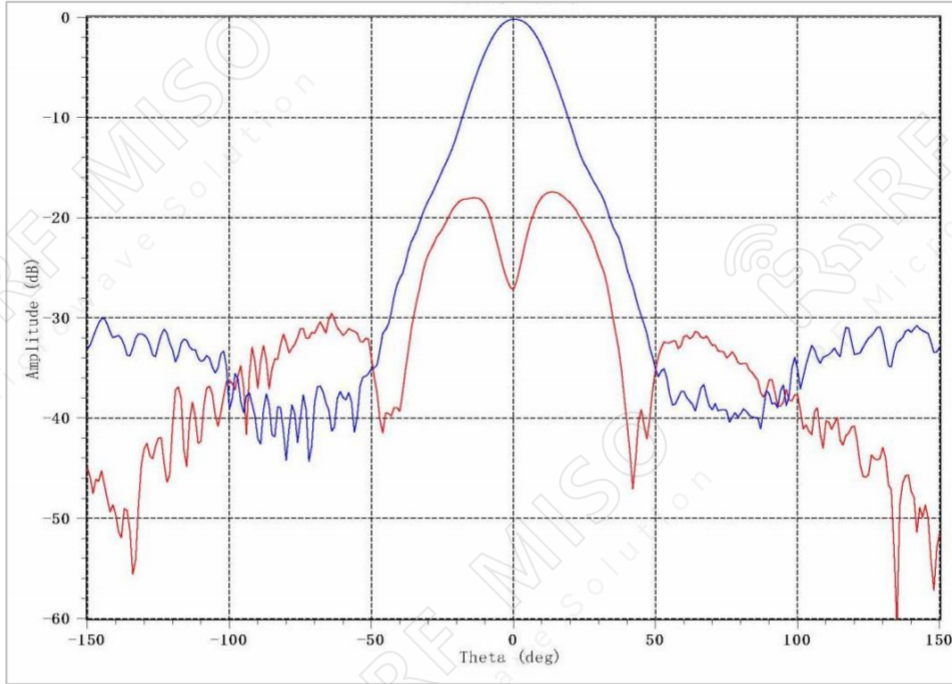
6GHz

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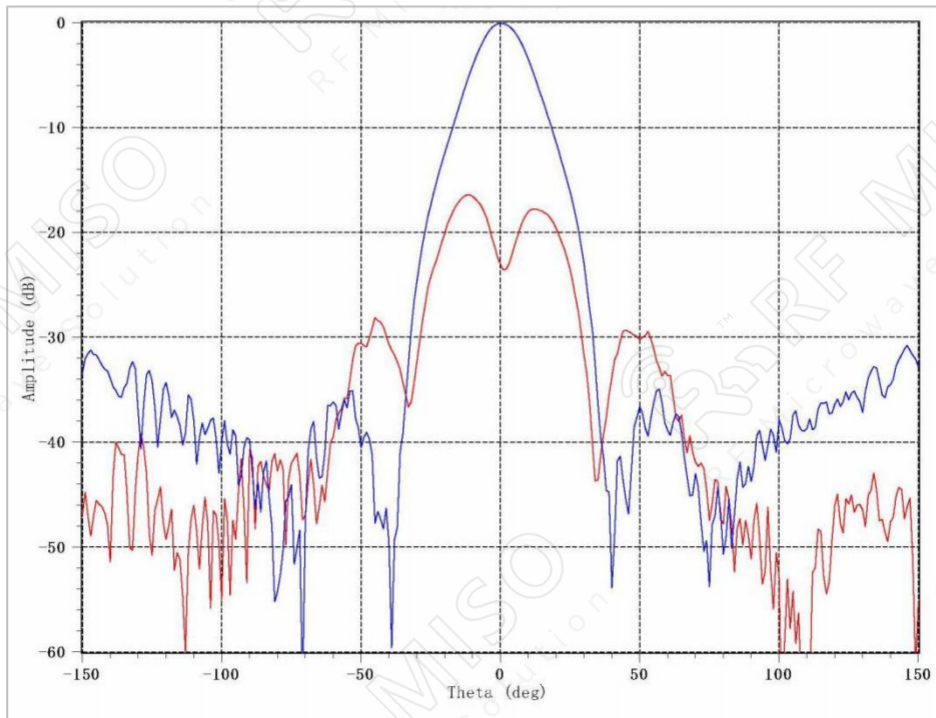


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8GHz



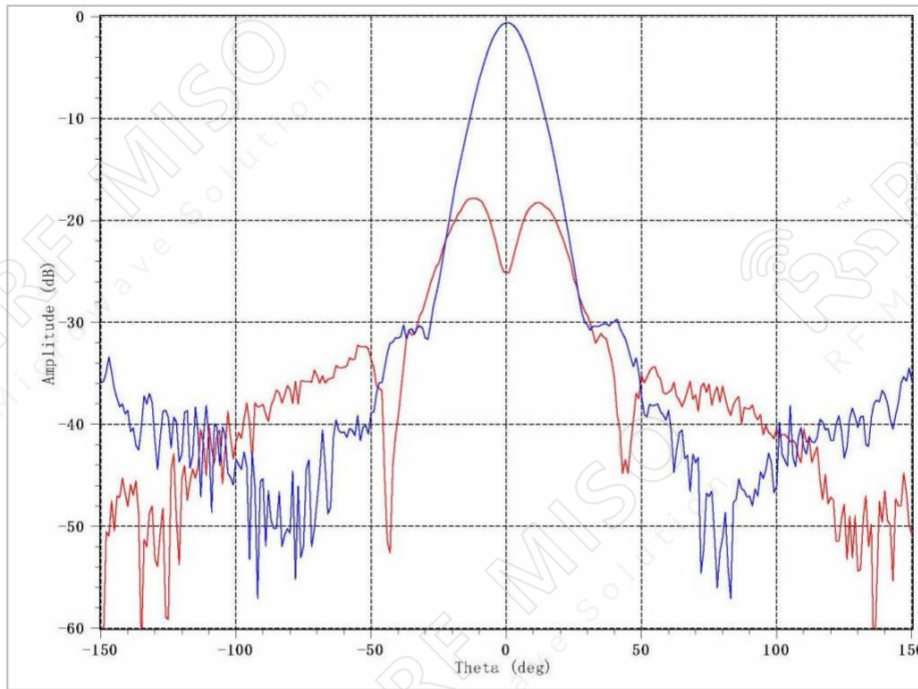
10GHz

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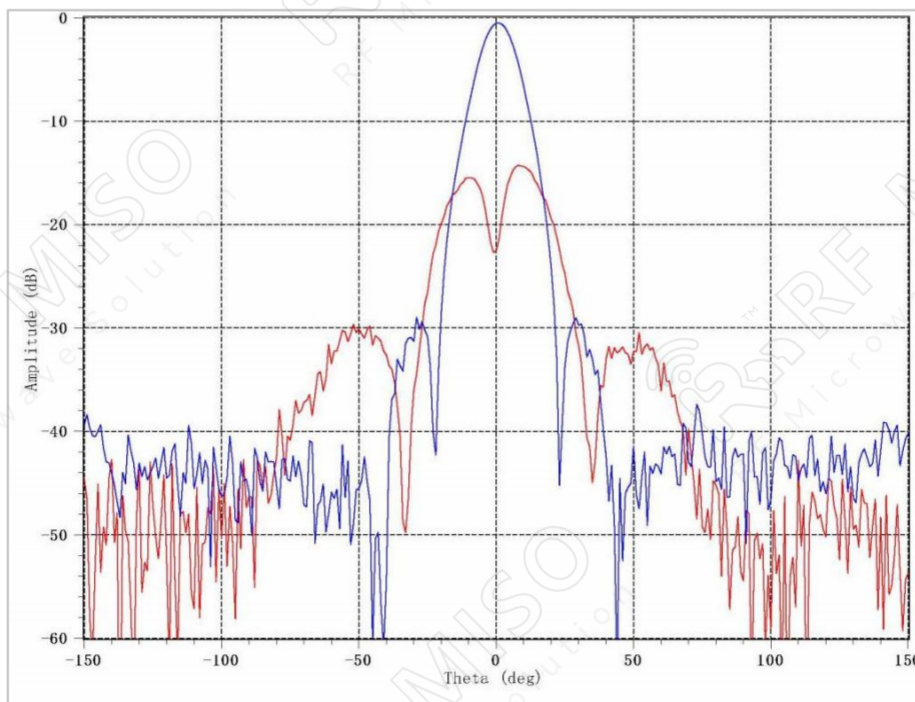


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12GHz



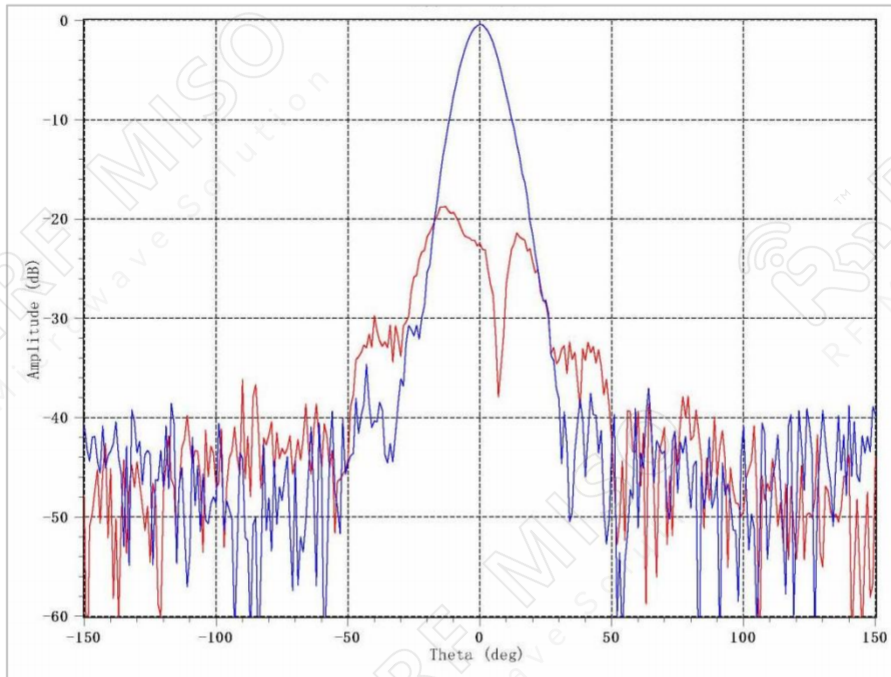
14GHz

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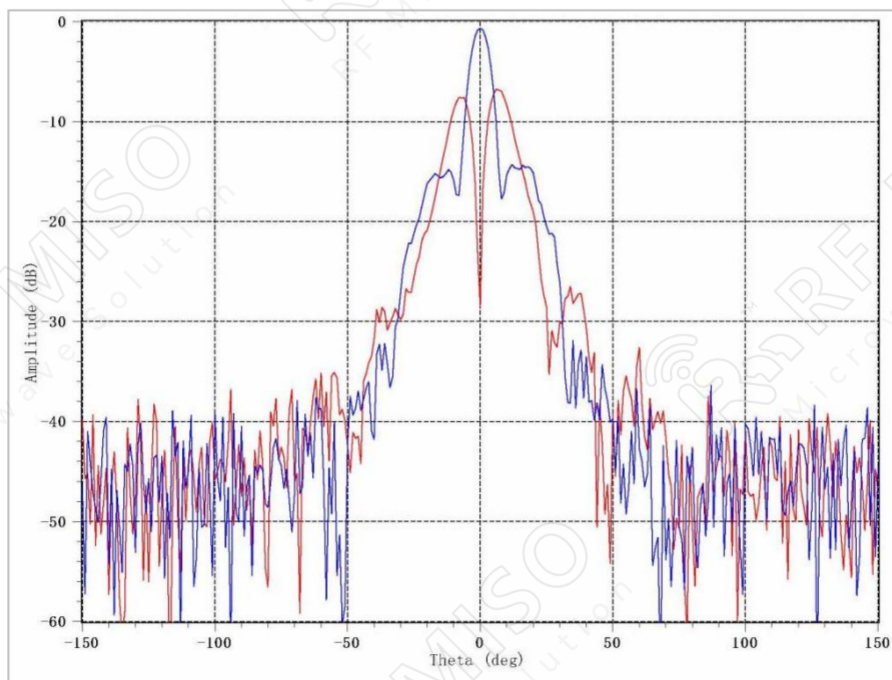


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16GHz



18GHz