



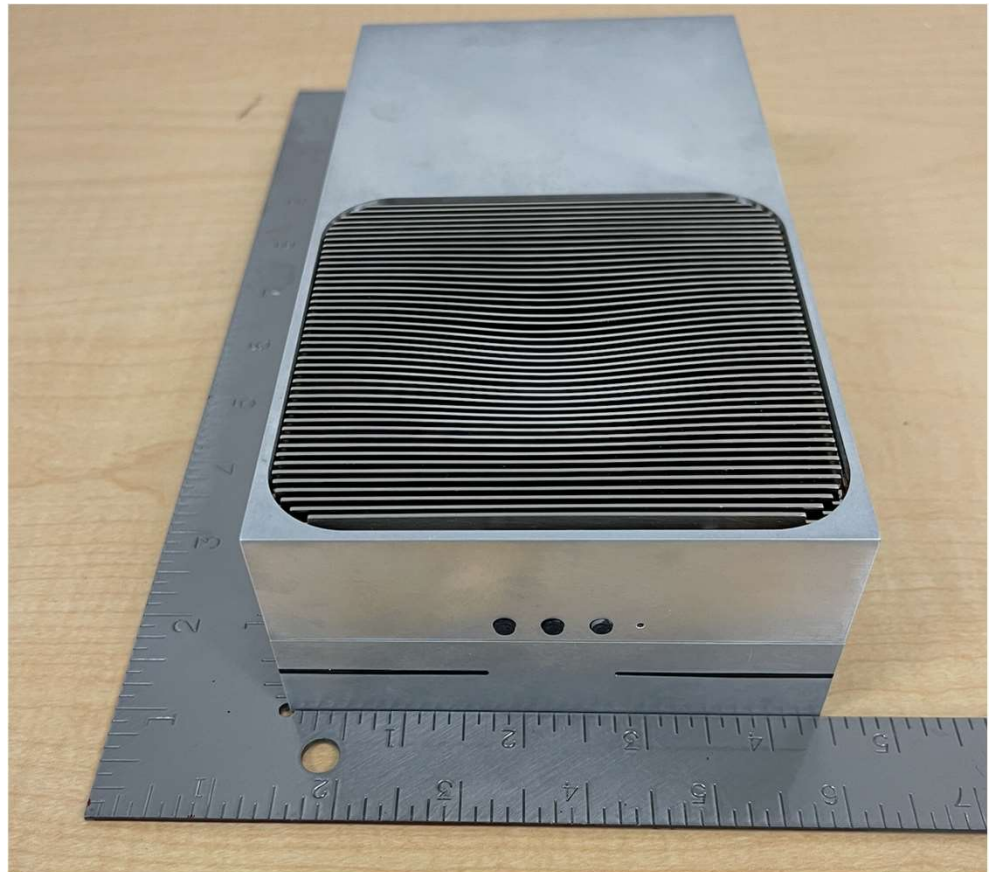
P4070: Antenna Data

Wireless Team | May 5, 2025

Device Information

P4070 with Integrated slot antennas

- NVPN: 367-1312-000
- Manufacturer Name: NVIDIA
- Manufacturer Address: 2788 San Tomas Expy,
Santa Clara, CA, 95051, USA
- Antenna Type: Slot
- Antenna Connector Type: IPEX MHF 4L
- Antenna Cable length: 289mm
- Antenna Dimensions: 1.5mm x 43.4mm

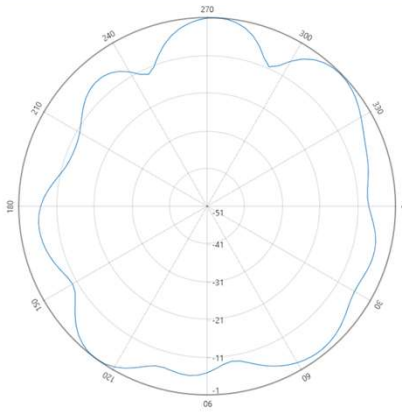


Typical Antenna Radiation Patterns

Band: 2.4 – 2.48GHz

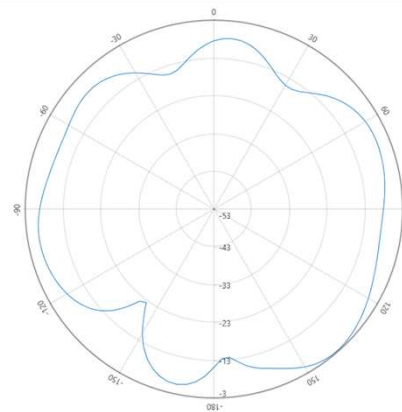
[Gain] Azimuth cut

✓ — 90° 2480.00 MHz ETotal



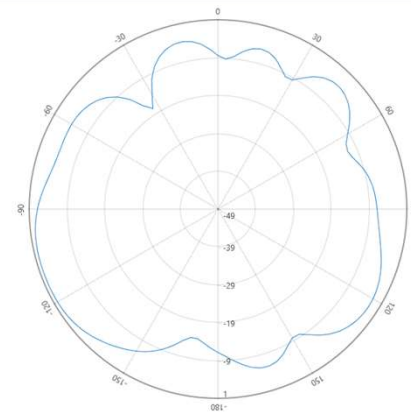
[Gain] Elevation cut

✓ — 0° 2480.00 MHz ETotal



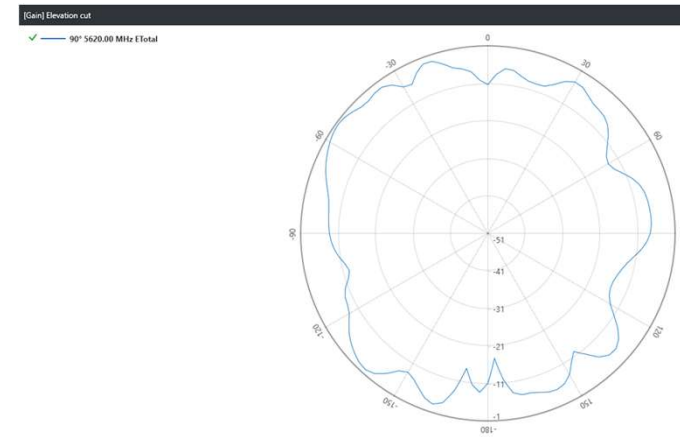
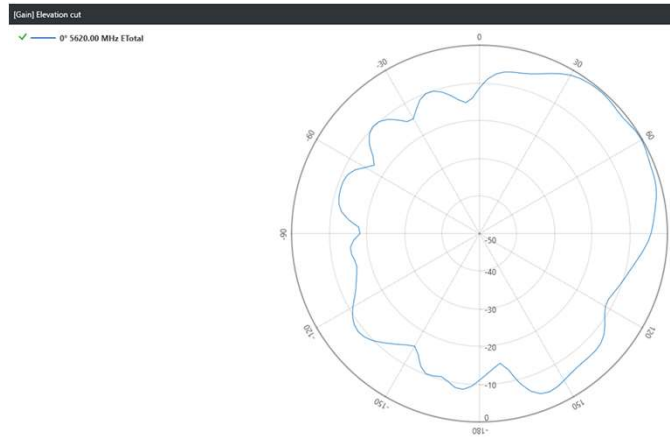
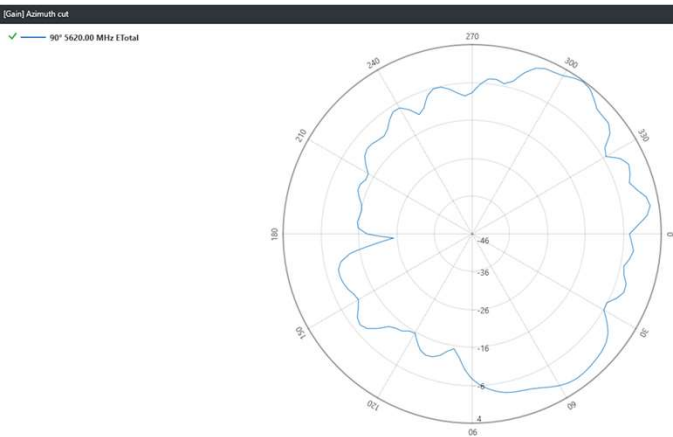
[Gain] Elevation cut

✓ — 90° 2480.00 MHz ETotal



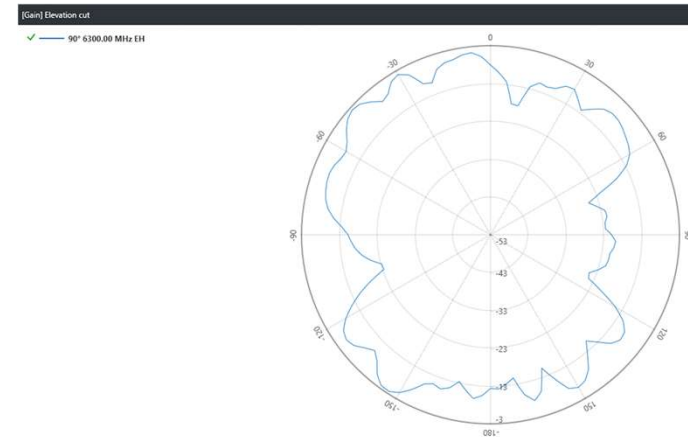
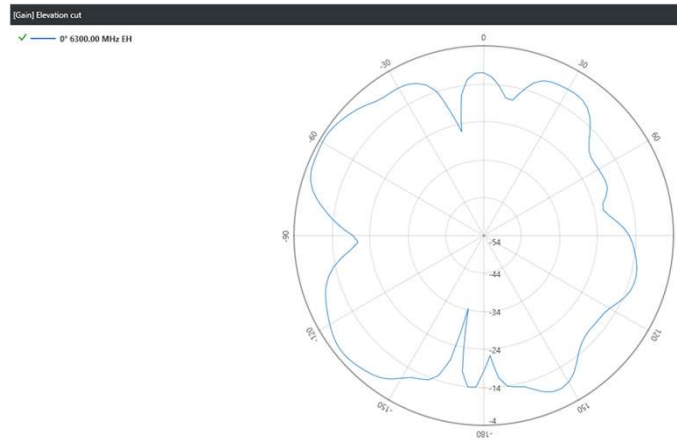
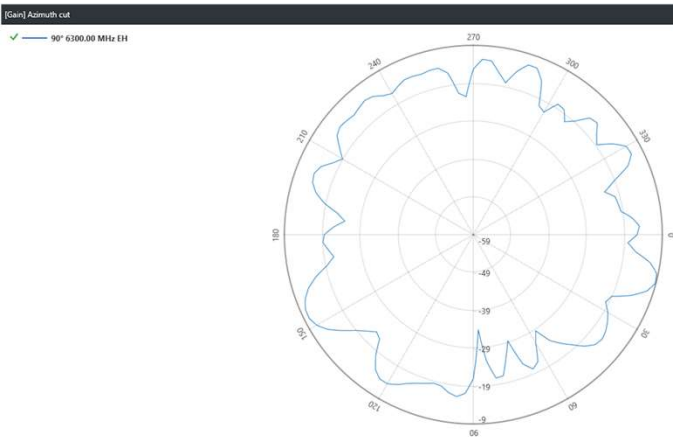
Typical Antenna Radiation Patterns

Band: 5 – 5.8GHz



Typical Antenna Radiation Patterns

Band: 5.925 – 7.125GHz



Antenna Gain

P4070

WLAN 2.4GHz	WLAN 5GHz / 6GHz	Bluetooth
3.0 dBi	5.0 dBi	3.0 dBi

Additional Test Information

Test Location

NVIDIA antenna chamber in Santa Clara, California, USA

Peak gain was measured using the chamber. The picture below shows the DUT inside the chamber



Additional Test Information

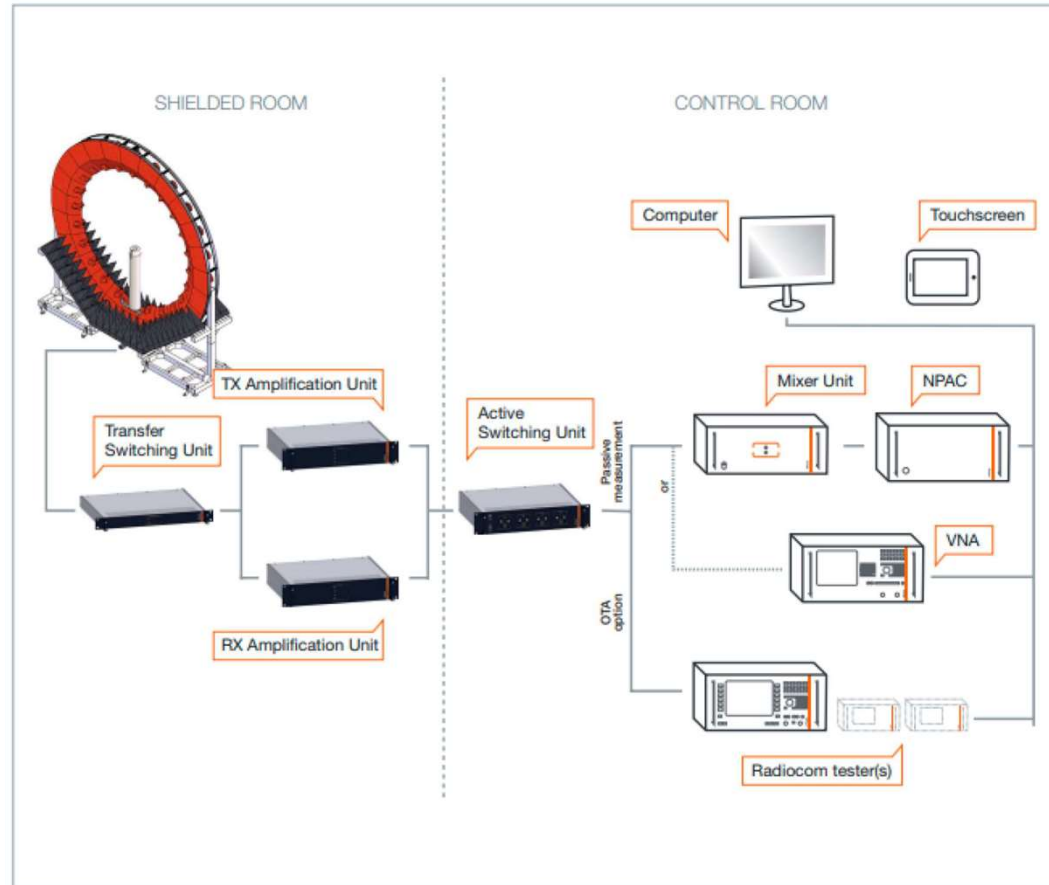
Test Equipment List

Description	Manufacturer	Model Number
Antenna Measurement System	MVG	SG24C
Test Software	MVG	Wave Studio 24.1.2

The Antenna Measurement system is under an annual maintenance contract with MVG and gets calibrated on an annual basis

Additional Test Information

Measurement Chamber Diagram



Source: <https://www.mvg-world.com/media/2311/download/reference>

Additional Test Information

Measurement Method

All antenna measurements are done in the anechoic chamber (no reflections) and is the closest representation of free space. Gain measurements are performed using the automated MVG antenna measurement system which is well accepted in the industry.

Test Steps:

1. Place the DUT in the center of the chamber
2. Connect DUT to mast cable
3. Use automated measurement software – Wave Studio, to capture antenna pattern
4. Export measurements
5. Post process data

