

Skydio

Antenna Under Test report (AUT)

Model Name: 850-211840

Equipment: Gen2 Controller

Manufacturer: Skydio Inc.

Test Location: Jabil Test Lab, Inc.

No. 256, Sec. 1, Shenlin Rd., Yuanlin Vil., Daya Dist.,

Taichung City 428302, Taiwan (R.O.C.)

Report Date: 04/10/2026

Report Number: 850-211840-000

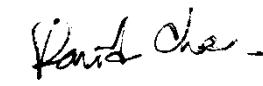
Report Release History

Report Version	Description	Date Issued
001	850-211840, 211841 Original Antenna Report	4/10/2023

Test Condition:

Test Condition	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	Manan Modi	20-24 / 45-60	04/10/2023

Test Engineer signature :

**Test Frequency:**

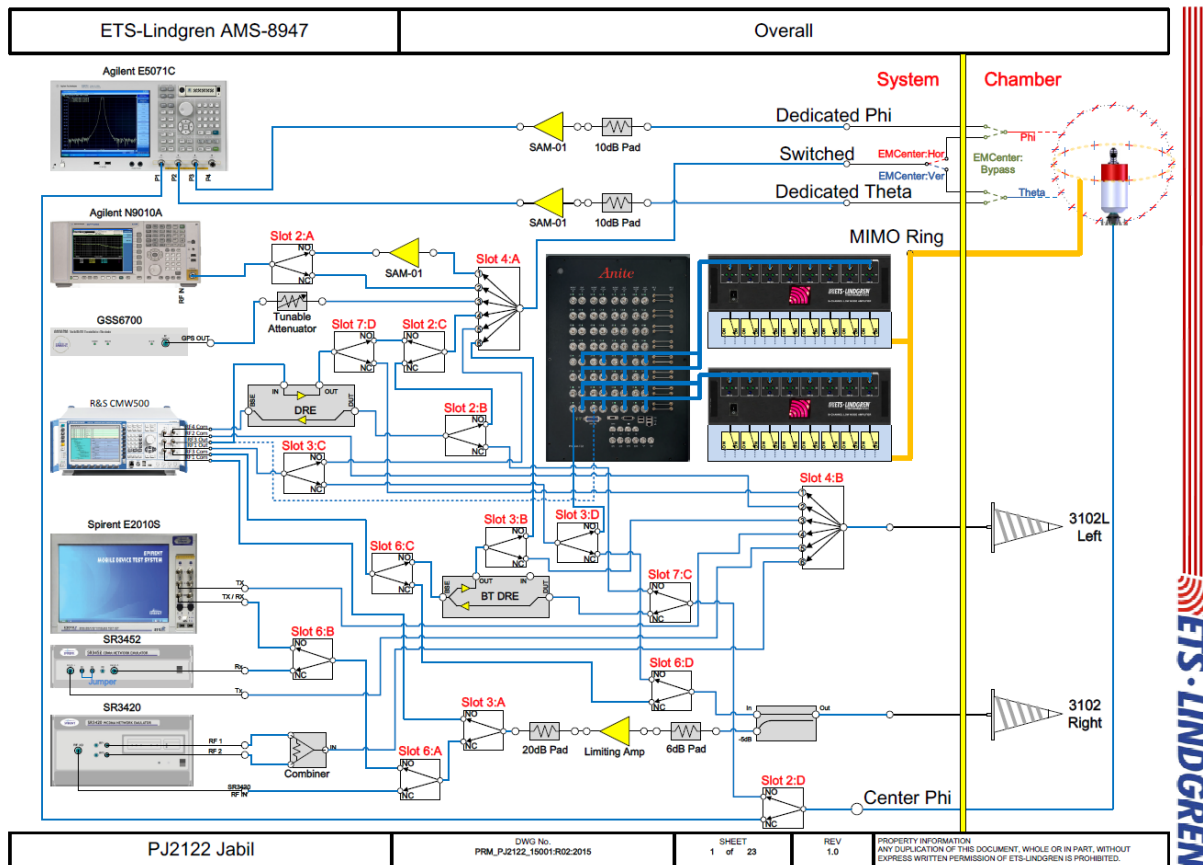
Band (MHz)	Test Frequency (MHz)
2400-2480	2450
5150-5250	5200
5250-5350	5300
5470-5725	5700
5725-5850	5800
5850-7125	6000

Antenna Information:

Ant. Position	Brand Name	Model Name	Ant. Type	Connector
Antenna WiFi-1 inner	Skydio	850-211840-000-1	Dipole	u.FL
Antenna WiFi-2 inner	Skydio	850-211841-000-1	Dipole	u.FL

Test Configuration:

Block diagram for ETS-Lindgren AMS-8947 Chamber



Description of the test chamber:

Chamber Specifications:

- Chamber Size: 16 ft (L) × 16 ft (W) × 16 ft (H) - (4.9 m × 4.9 m × 4.9 m)
- Test Distance: 1.95 m
- Frequency Range: 700 MHz – 6 GHz
- Fully anechoic chamber with EHP-12 absorbers

Quiet Zone Diameter:

- 30 cm
- 50 cm
- Compliant with CTIA v2.2 / v3.1

Measurement System

- Model 8947 integrated with 47 measurement antennas
- Supports radiation pattern sampling with 7.5° angular resolution
- Goniometer enables turntable tilt for sampling at resolutions finer than 7.5°
- Calibration fixture used to normalize all 47 measurement antennas

Test Equipment list:

Equipment Name	Manufacturer	Model Number	Serial Number	Cal Cycle	Cal Date
ENA Series Network	Keysight	E5071C	MY46524627	2 years	2025/7/15
EXA Signal Analyzer	Keysight	N9010A	MY54510598	2 years	2025/7/15
Wideband radio communication tester	Rohde & Schwarz	CMW500	1201.0002K50-154061-Qp	2 years	2025/6/26
EMQuest Data Acquisition and Analysis Software	ETS Lindgren	Version 1.13 Build 5546	1476	N/A	N/A

Test Method:

The ETS-Lindgren AMS-8947 OTA chamber employs a multi-probe spherical near-field measurement method, utilizing an array of 47 fixed measurement antennas distributed around the Equipment Under Test (EUT).

The EUT is mounted on a positioner (goniometer) capable of rotating in azimuth (phi) and elevation (theta) axes. During testing, the system captures radiated RF signals simultaneously from multiple spatial locations, significantly reducing measurement time compared to traditional single-probe systems.

Radiation pattern sampling is typically performed with an angular resolution of 7.5 degrees. For higher resolution requirements, the goniometer enables additional mechanical tilting of the turntable to achieve finer angular sampling.

The collected data from the multi-probe array are processed to reconstruct the three-dimensional far-field radiation pattern of the EUT. The total radiated power (TRP) and other OTA performance metrics are obtained by integrating the measured power over the full spherical surface.

A calibration fixture is used to normalize amplitude and phase variations across all 47 measurement antennas, ensuring measurement accuracy and system consistency.

Measured Values and Calculation of Correlated / Uncorrelated Gains:

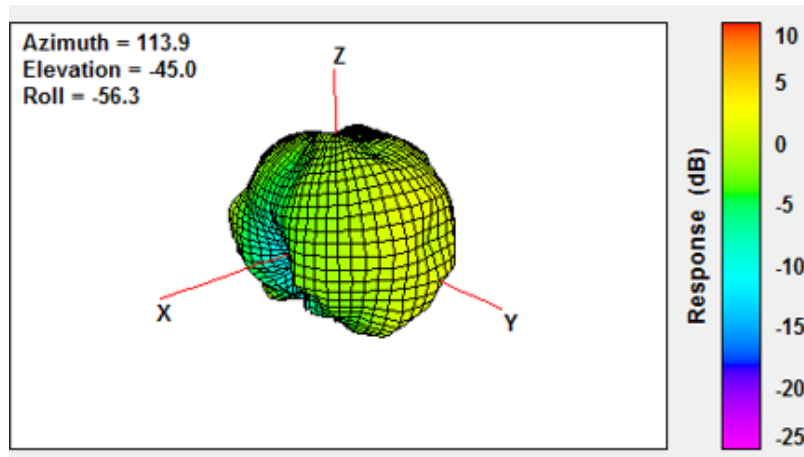
Peak Gain Table

Band (MHz)	2400-2480	5150-5250	5250-5350
Frequency (MHz)	2450	5200	5300
WiFi Ant.1 Max Gain	1.95	2.51	2.71
WiFi Ant.2 Max Gain	1.85	2.38	2.58
Max Gain (dBi)	1.95	2.51	2.71

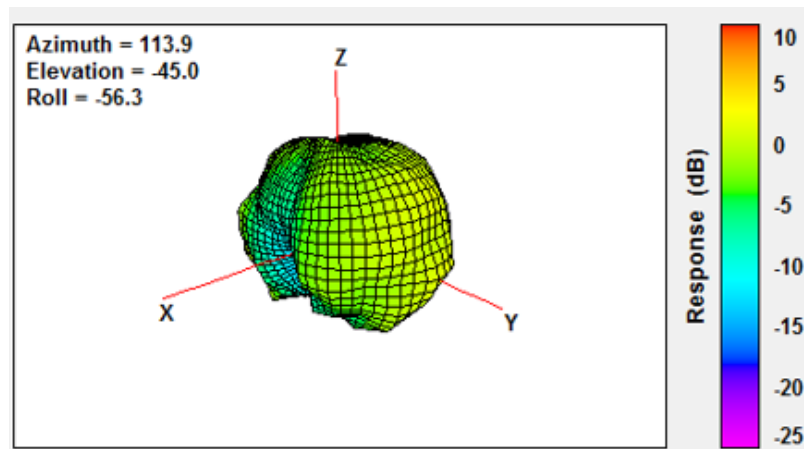
Band (MHz)	5470-5725	5725-5850	5850- 7125
Frequency (MHz)	5700	5800	6000
WiFi Ant.1 Max Gain	2.85	3.01	3.05
WiFi Ant.2 Max Gain	2.71	2.98	2.91
Max Gain (dBi)	2.85	3.01	3.05

3D Radiation Pattern:

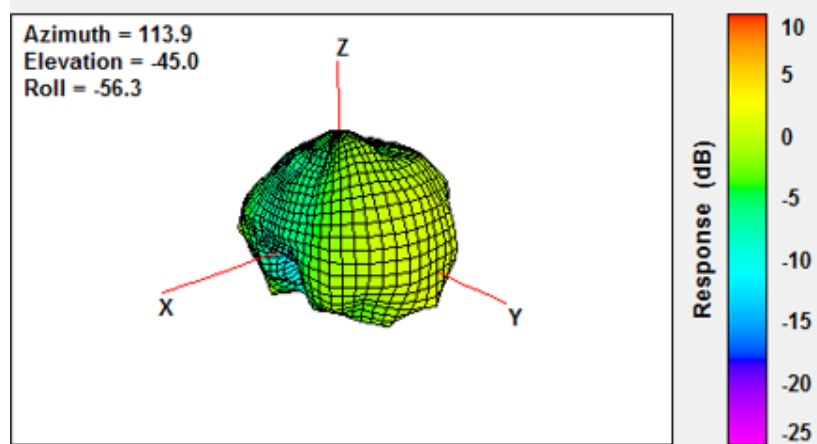
5200MHz



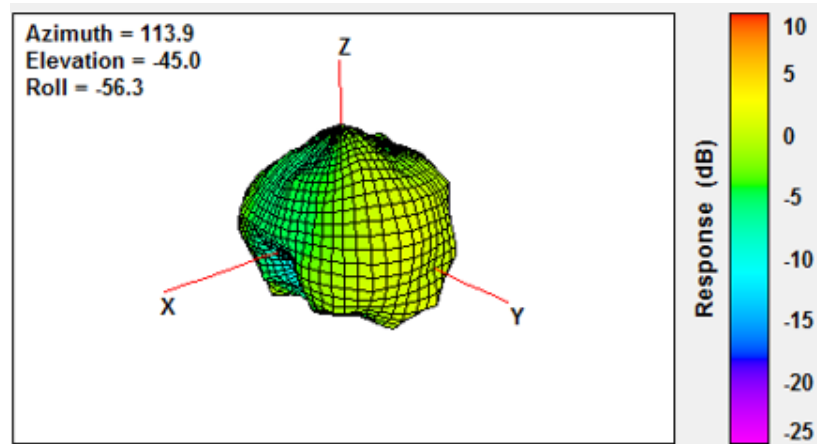
5300MHz



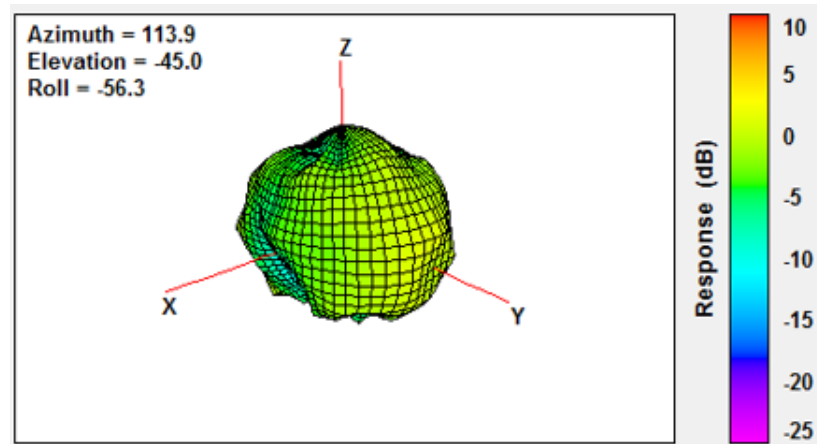
5700MHz



5800MHz



6000MHz



2.4G (2450MHz)

