

# **Logitech**

## **Antenna Under Test (AUT)**

### **Report**

**Model Name:** MR0158

**Equipment Type:** Mouse

**Manufacturer:** Logitech Technology (Suzhou) Co., Ltd.

**Test Location:** No. 3 Songshan Road, Suzhou New District, Jiangsu,  
China

**Tested by:** Abby GE

**Report Date:** 2026.08.17

## Report Release History

| Report version           | Description      | Date Issued |
|--------------------------|------------------|-------------|
| MR0158 AUT Report<br>001 | Original release | 2026/08/17  |

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## 1. EUT Antenna Information

- 1) Antenna Material : PCB on board
- 2) Antenna Type : Dipole
- 3) Antenna Dimension: 24 x 9 mm
- 4) Operating Frequency : 2.4GHz-2.5GHz
- 5) Input Impedance : 50Ω
- 6) Standing-Wave Ratio : 2:1

## 2. Measured Values and Calculation of Antenna Gains

Measure peak horizontal/vertical EIRP on each x-y, y-z, x-z plane. The highest measured values will be used to calculate the antenna peak gain.

$$\text{Antenna Peak Gain (dBi)} = \text{Max EIRP(dBm)} - \text{Conducted Power (dBm)}$$

### Palau avalon

| Frequency | X-Y Plane (ø=174 deg@max EIRP) |                      | X-Z Plane (ø=-9 deg@max EIRP) |                      | Y-Z Plane (ø=12 deg@max EIRP) |                      | Max Peak EIRP (dBm) | Conducted Power (dBm) | Antenna Peak Gain (dBi) |
|-----------|--------------------------------|----------------------|-------------------------------|----------------------|-------------------------------|----------------------|---------------------|-----------------------|-------------------------|
|           | Hori. Peak EIRP (dBm)          | Ver. Peak EIRP (dBm) | Hori. Peak EIRP (dBm)         | Ver. Peak EIRP (dBm) | Hori. Peak EIRP (dBm)         | Ver. Peak EIRP (dBm) |                     |                       |                         |
| 2405      | 3.15                           | -14.00               | -1.58                         | 2.92                 | -4.07                         | -0.67                | 3.15                | -0.36                 | 3.51                    |
| 2444      | 3.30                           | -12.09               | 0.04                          | 3.44                 | -4.15                         | 0.79                 | 3.44                | 0.24                  | 3.20                    |
| 2474      | 3.28                           | -11.55               | 1.02                          | 3.66                 | -2.95                         | 1.49                 | 3.66                | 0.52                  | 3.14                    |

### Palau silent avalon

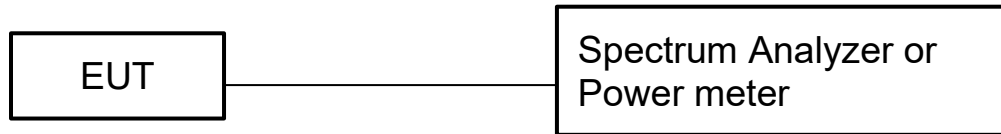
| Frequency | X-Y Plane (ø=177 deg@max EIRP) |                      | X-Z Plane (ø=-99 deg@max EIRP) |                      | Y-Z Plane (ø=15 deg@max EIRP) |                      | Max Peak EIRP (dBm) | Conducted Power (dBm) | Antenna Peak Gain (dBi) |
|-----------|--------------------------------|----------------------|--------------------------------|----------------------|-------------------------------|----------------------|---------------------|-----------------------|-------------------------|
|           | Hori. Peak EIRP (dBm)          | Ver. Peak EIRP (dBm) | Hori. Peak EIRP (dBm)          | Ver. Peak EIRP (dBm) | Hori. Peak EIRP (dBm)         | Ver. Peak EIRP (dBm) |                     |                       |                         |

|      |      |        |       |      |       |       |      |       |             |
|------|------|--------|-------|------|-------|-------|------|-------|-------------|
| 2405 | 2.42 | -14.50 | -1.61 | 2.51 | -4.22 | -0.75 | 2.51 | -0.36 | <b>2.87</b> |
| 2444 | 2.61 | -12.68 | -0.12 | 2.74 | -4.41 | 0.62  | 2.74 | 0.24  | 2.50        |
| 2474 | 2.58 | -11.95 | 0.95  | 3.16 | -3.05 | 1.46  | 3.16 | 0.52  | 2.64        |

**Test Date: 2026.08.17**

### 3. Conducted Power Measurement

#### 3.1 Test Setup



#### 3.2 Test Instruments

| Description                | Model No. | Serial No. | Last Calibration |
|----------------------------|-----------|------------|------------------|
| Spectrum Analyzer Keysight | N9010A    | MY49061163 | 2026-06-17       |
|                            |           |            |                  |

Note: The calibration interval of the above test instruments is 12 months

#### 3.3 Test Procedure

A spectrum analyzer was used to perform output power measurement, setting the detector to normal and configuring EUT continuously transmitting power.

#### 3.4 Test Result of RF conducted Power

| Frequency | Conducted Power (dBm) |
|-----------|-----------------------|
| 2405      | -0.36                 |
| 2444      | 0.24                  |
| 2474      | 0.52                  |

Note: 1.Palau and Palau Silent use the same PCB,so the conducted power has the same value  
2.Only change switch to silent and then test pattern

**Test Date: 2026.08.17**

## **4. 2D Radiation Pattern Measurement**

### **4.1 Test Location**

No. 3 Songshan Road, Suzhou New District, Jiangsu,  
China

### **4.2 Description of the anechoic chamber**

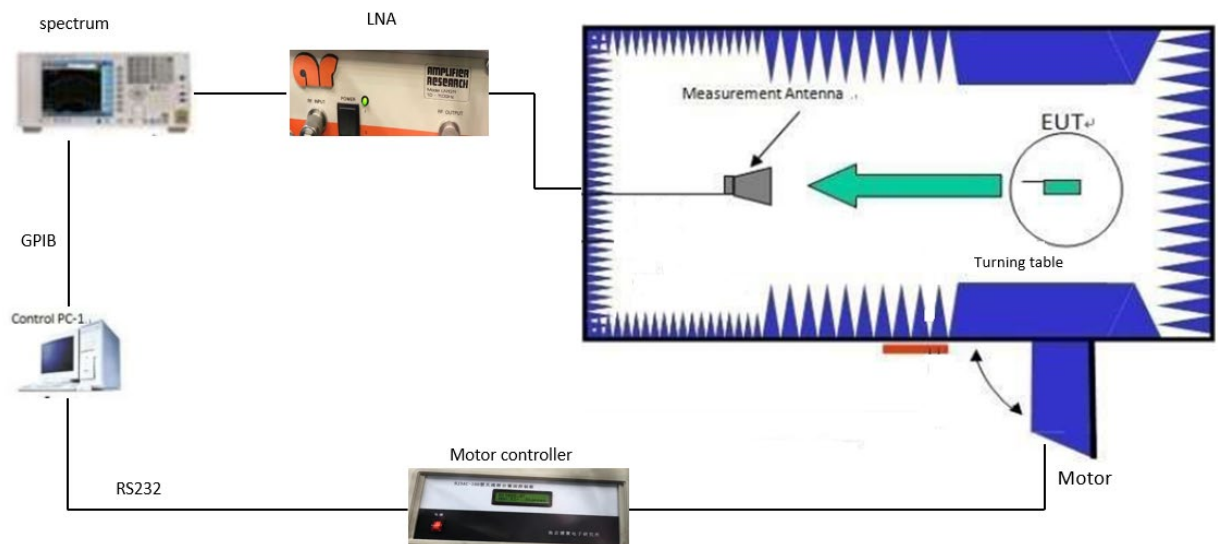
Length: 5.0m

Width: 2.8m

Height: 2.8m

Turn table Height: 1.4m

Measurement antenna height: 1.4m



### 4.3 Test Instruments

| Description                | Model No.                    | Serial No.      | Last Calibration |
|----------------------------|------------------------------|-----------------|------------------|
| Spectrum Analyzer Keysight | N9010A                       | MY49061163      | 2026.6.17        |
| RF signal cable            | SUCOFLEX104                  | SN293270/4      | N/A              |
| Software                   | FAC-Radio Measurement System | Version 1.1.0.7 | N/A              |
| Turntable controller       | BJ3AC-100                    | N/A             | N/A              |

Note: The calibration interval of the above test instruments is 12 months

### 4.4 Test Procedure

- i. Connect the EUT to Spectrum Analyzer and record the power setting of EUT and the measured conducted power.
- ii. Fasten the EUT in the center of the turntable, record the coordinates and take pictures.
- iii. Configuring EUT continuously transmitting power(100% duty cycle).
- iv. Make sure the transmit signal is stable and at the maximum RF power level.
- v. Setup the channel power function by spectrum analyzer.
- vi. Read the channel power level on the spectrum analyzer and record in the following positions.
  1. The turntable is then stepped between 0 to 360 degrees along the horizontal plane in 3-degree increments.
  2. Data is recorded using the spectrum analyzer at each position.
- vii. Rotate the EUT with 90 degrees and repeat step f.1 and step f.2 until all 3 planes(X-Y,X-Z,Y-Z) were measured.
- viii. According to substitution techniques, a substitution horn antenna is substituted for EUT at the same position and the signal generator exports the CW signal to the substitution antenna via a TX cable. Rotated the turntable and moved the receiving antenna to find the maximum radiation

power. Adjust output power level of S.G to get a value of spectrum reading equal to "Raw Value" gotten from step vii. Record the power level of S.G.

$$\text{EIRP} = P_{\text{SigGen}} + G_T - L_C$$

where:

$P_{\text{SigGen}}$  = power setting of the signal generator that produces the same received power reading as the DUT, in dBm;

$G_T$  = gain of the substitute antenna, in dBd (ERP) or dBi (EIRP);

$L_C$  = signal loss in the cable connecting the signal generator to the substitute antenna, in dB

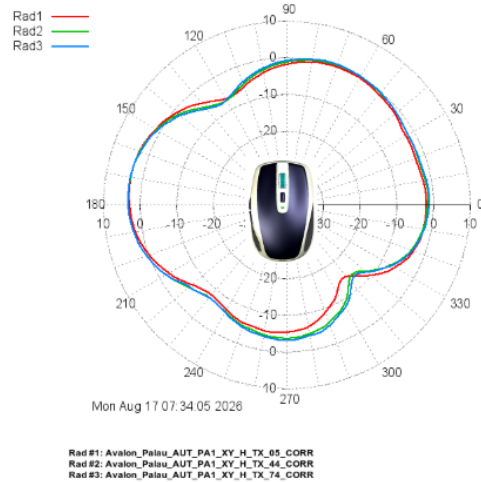
- ix. Antenna Peak Gain (dBi) = Max EIRP(dBm) - Conducted Power (dBm)

## 4.6 2D Pattern Test Plot

Palau Pattern:

Test antenna\_ (XY plane)

### Horizontal



#### Radiation pattern #1:

Avalon\_Palau\_AUT\_PA1\_XY\_H\_TX\_05\_CORR

Average power = -3.49 dBm  
Front average power = -1.50 dBm (From 0 deg to 180 deg)  
Min power = -14.82 dBm @ -54.00 deg  
Max power = 3.15 dBm @ 171.00 deg

#### Radiation pattern #2:

Avalon\_Palau\_AUT\_PA1\_XY\_H\_TX\_44\_CORR

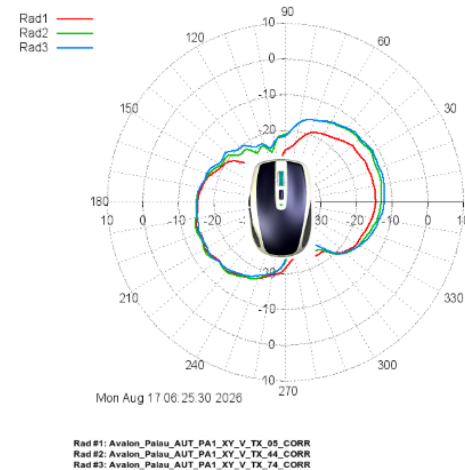
Average power = -2.97 dBm  
Front average power = -1.29 dBm (From 0 deg to 180 deg)  
Min power = -13.87 dBm @ -48.00 deg  
Max power = 3.30 dBm @ 174.00 deg  
Delta max power = 0.16 dBm  
Delta average power = 0.52 dBm  
Delta front average power = 0.21 dBm

#### Radiation pattern #3:

Avalon\_Palau\_AUT\_PA1\_XY\_H\_TX\_74\_CORR

Average power = -2.79 dBm  
Front average power = -1.24 dBm (From 0 deg to 180 deg)  
Min power = -13.18 dBm @ -45.00 deg  
Max power = 3.28 dBm @ 177.00 deg  
Delta max power = 0.13 dBm  
Delta average power = 0.70 dBm  
Delta front average power = 0.26 dBm

### Vertical



#### Radiation pattern #1:

Avalon\_Palau\_AUT\_PA1\_XY\_V\_TX\_05\_CORR

Average power = -19.10 dBm  
Front average power = -20.51 dBm (From 0 deg to 180 deg)  
Min power = -31.57 dBm @ 102.00 deg  
Max power = -14.00 dBm @ -150.00 deg

#### Radiation pattern #2:

Avalon\_Palau\_AUT\_PA1\_XY\_V\_TX\_44\_CORR

Average power = -17.79 dBm  
Front average power = -17.41 dBm (From 0 deg to 180 deg)  
Min power = -30.66 dBm @ -72.00 deg  
Max power = -12.09 dBm @ 30.00 deg  
Delta max power = 1.92 dBm  
Delta average power = 1.30 dBm  
Delta front average power = 3.11 dBm

#### Radiation pattern #3:

Avalon\_Palau\_AUT\_PA1\_XY\_V\_TX\_74\_CORR

Average power = -17.92 dBm  
Front average power = -16.86 dBm (From 0 deg to 180 deg)  
Min power = -39.50 dBm @ -72.00 deg  
Max power = -11.55 dBm @ 15.00 deg  
Delta max power = 2.45 dBm  
Delta average power = 1.18 dBm  
Delta front average power = 3.66 dBm

## Test antenna\_ (XZ plane)

### Horizontal

#### Radiation pattern #1:

Avalon\_Palau\_AUT\_PA1\_XZ\_H\_TX\_05\_CORR

Average power = **-6.35 dBm**  
 Front average power = **-5.12 dBm** (From 0 deg to 180 deg)  
 Min power = **-15.60 dBm @ -165.00 deg**  
 Max power = **-1.58 dBm @ 99.00 deg**

#### Radiation pattern #2:

Avalon\_Palau\_AUT\_PA1\_XZ\_H\_TX\_44\_CORR

Average power = **-4.98 dBm**  
 Front average power = **-3.80 dBm** (From 0 deg to 180 deg)  
 Min power = **-13.97 dBm @ -171.00 deg**  
 Max power = **0.04 dBm @ 90.00 deg**

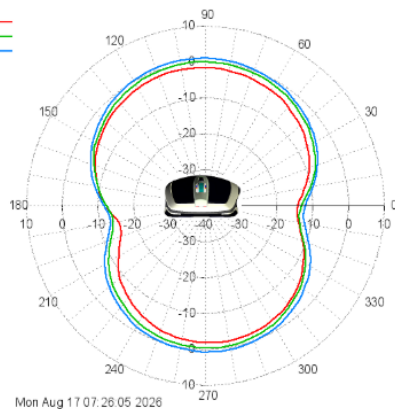
Delta max power = **1.62 dBm**  
 Delta average power = **1.37 dBm**  
 Delta front average power = **1.32 dBm**

#### Radiation pattern #3:

Avalon\_Palau\_AUT\_PA1\_XZ\_H\_TX\_74\_CORR

Average power = **-3.93 dBm**  
 Front average power = **-2.87 dBm** (From 0 deg to 180 deg)  
 Min power = **-13.18 dBm @ -171.00 deg**  
 Max power = **1.02 dBm @ 87.00 deg**

Delta max power = **2.60 dBm**  
 Delta average power = **2.42 dBm**  
 Delta front average power = **2.25 dBm**



Rad #1: Avalon\_Palau\_AUT\_PA1\_XZ\_H\_TX\_05\_CORR  
 Rad #2: Avalon\_Palau\_AUT\_PA1\_XZ\_H\_TX\_44\_CORR  
 Rad #3: Avalon\_Palau\_AUT\_PA1\_XZ\_H\_TX\_74\_CORR

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### Vertical

#### Radiation pattern #1:

Avalon\_Palau\_AUT\_PA1\_XZ\_V\_TX\_05\_CORR

Average power = **-3.02 dBm**  
 Front average power = **-3.25 dBm** (From 0 deg to 180 deg)  
 Min power = **-11.34 dBm @ -114.00 deg**  
 Max power = **2.92 dBm @ -18.00 deg**

#### Radiation pattern #2:

Avalon\_Palau\_AUT\_PA1\_XZ\_V\_TX\_44\_CORR

Average power = **-2.32 dBm**  
 Front average power = **-2.78 dBm** (From 0 deg to 180 deg)  
 Min power = **-10.37 dBm @ 99.00 deg**  
 Max power = **3.44 dBm @ -12.00 deg**

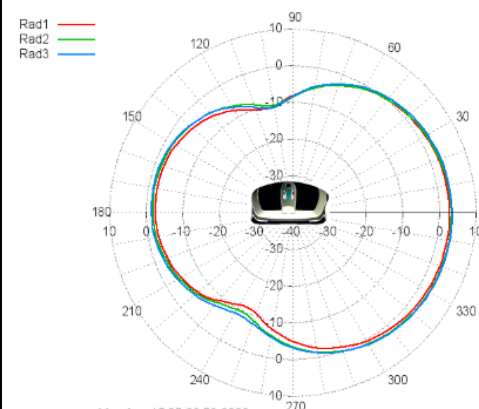
Delta max power = **0.52 dBm**  
 Delta average power = **0.70 dBm**  
 Delta front average power = **0.47 dBm**

#### Radiation pattern #3:

Avalon\_Palau\_AUT\_PA1\_XZ\_V\_TX\_74\_CORR

Average power = **-2.04 dBm**  
 Front average power = **-2.63 dBm** (From 0 deg to 180 deg)  
 Min power = **-11.00 dBm @ 102.00 deg**  
 Max power = **3.66 dBm @ -9.00 deg**

Delta max power = **0.74 dBm**  
 Delta average power = **0.98 dBm**  
 Delta front average power = **0.63 dBm**



Rad #1: Avalon\_Palau\_AUT\_PA1\_XZ\_V\_TX\_05\_CORR  
 Rad #2: Avalon\_Palau\_AUT\_PA1\_XZ\_V\_TX\_44\_CORR  
 Rad #3: Avalon\_Palau\_AUT\_PA1\_XZ\_V\_TX\_74\_CORR

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## Test antenna\_ (YZ plane)

### Horizontal

#### Radiation pattern #1:

Avalon\_Palau\_AUT\_PA1\_YZ\_H\_TX\_05\_CORR

Average power = -10.60 dBm  
Front average power = -9.25 dBm (From 0 deg to 180 deg)

Min power = -22.72 dBm @ -99.00 deg  
Max power = -4.07 dBm @ 153.00 deg

#### Radiation pattern #2:

Avalon\_Palau\_AUT\_PA1\_YZ\_H\_TX\_44\_CORR

Average power = -9.70 dBm  
Front average power = -9.59 dBm (From 0 deg to 180 deg)

Min power = -36.08 dBm @ -102.00 deg  
Max power = -4.15 dBm @ 174.00 deg

Delta max power = -0.08 dBm  
Delta average power = 0.90 dBm  
Delta front average power = -0.34 dBm

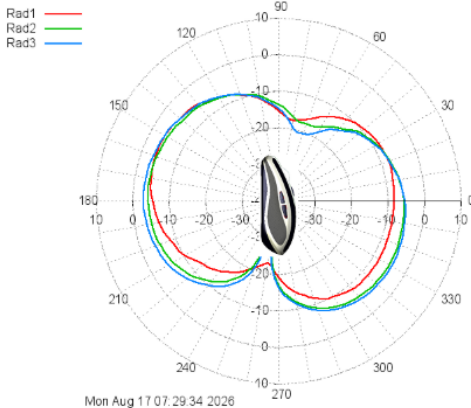
#### Radiation pattern #3:

Avalon\_Palau\_AUT\_PA1\_YZ\_H\_TX\_74\_CORR

Average power = -9.27 dBm  
Front average power = -9.87 dBm (From 0 deg to 180 deg)

Min power = -30.67 dBm @ -102.00 deg  
Max power = -2.95 dBm @ 177.00 deg

Delta max power = 1.11 dBm  
Delta average power = 1.34 dBm  
Delta front average power = -0.62 dBm



Rad #1: Avalon\_Palau\_AUT\_PA1\_YZ\_H\_TX\_05\_CORR  
Rad #2: Avalon\_Palau\_AUT\_PA1\_YZ\_H\_TX\_44\_CORR  
Rad #3: Avalon\_Palau\_AUT\_PA1\_YZ\_H\_TX\_74\_CORR

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### Vertical

#### Radiation pattern #1:

Avalon\_Palau\_AUT\_PA1\_YZ\_V\_TX\_05\_CORR

Average power = -2.41 dBm  
Front average power = -2.02 dBm (From 0 deg to 180 deg)

Min power = -4.89 dBm @ -96.00 deg  
Max power = -0.67 dBm @ 3.00 deg

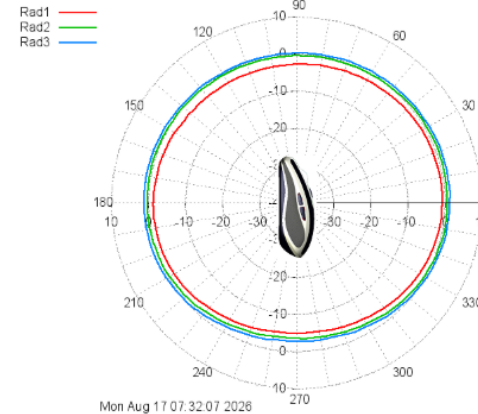
#### Radiation pattern #2:

Avalon\_Palau\_AUT\_PA1\_YZ\_V\_TX\_44\_CORR

Average power = -0.68 dBm  
Front average power = 0.01 dBm (From 0 deg to 180 deg)

Min power = -3.60 dBm @ -93.00 deg  
Max power = 0.79 dBm @ 12.00 deg

Delta max power = 1.45 dBm  
Delta average power = 1.73 dBm  
Delta front average power = 2.03 dBm



Rad #1: Avalon\_Palau\_AUT\_PA1\_YZ\_V\_TX\_05\_CORR  
Rad #2: Avalon\_Palau\_AUT\_PA1\_YZ\_V\_TX\_44\_CORR  
Rad #3: Avalon\_Palau\_AUT\_PA1\_YZ\_V\_TX\_74\_CORR

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#### Radiation pattern #3:

Avalon\_Palau\_AUT\_PA1\_YZ\_V\_TX\_74\_CORR

Average power = 0.07 dBm  
Front average power = 0.71 dBm (From 0 deg to 180 deg)

Min power = -2.79 dBm @ -90.00 deg  
Max power = 1.49 dBm @ 3.00 deg

Delta max power = 2.15 dBm  
Delta average power = 2.48 dBm  
Delta front average power = 2.73 dBm

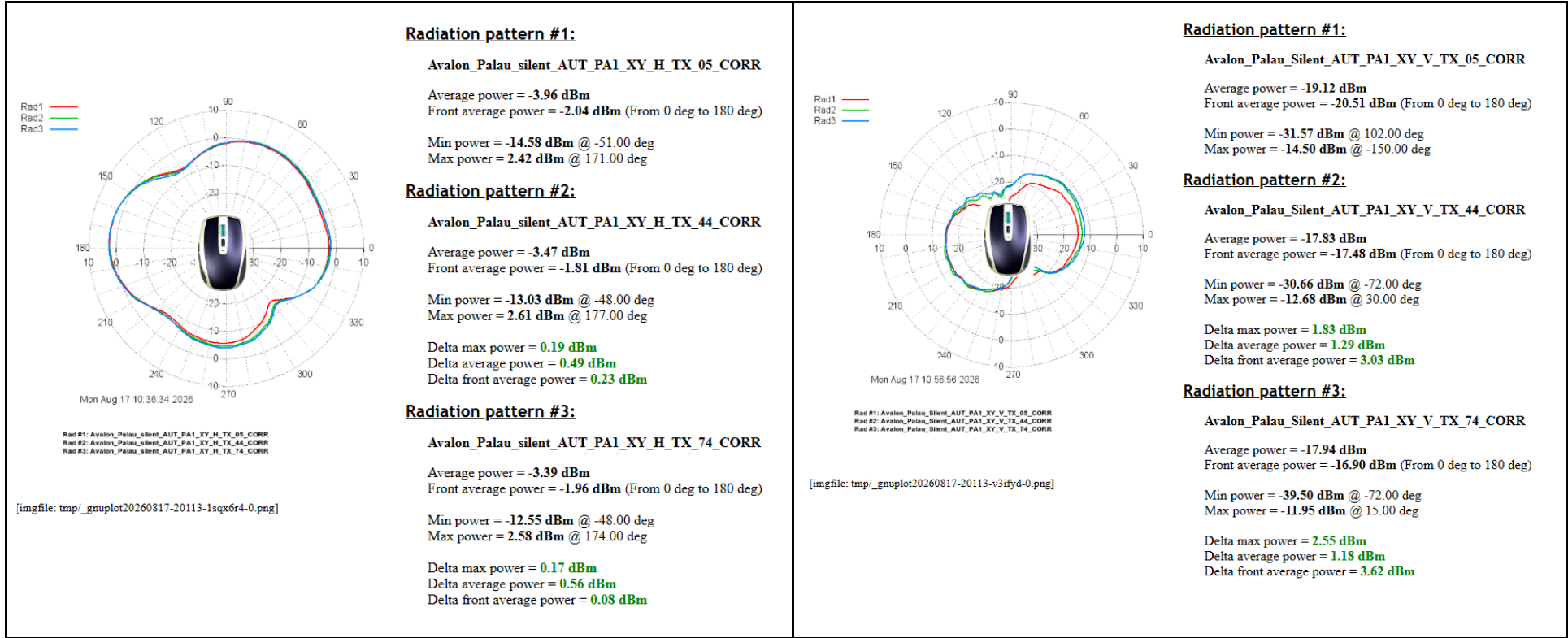
## Palau silent pattern:

## Test antenna\_ (XY plane)

### Horizontal

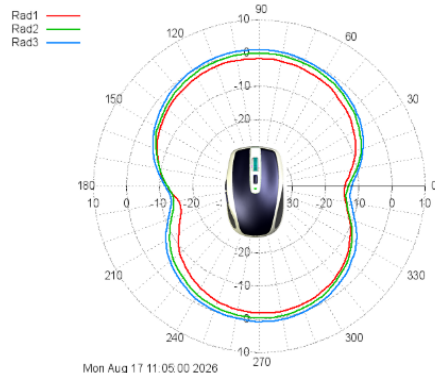
### Vertical

Report No: EVT-770-001999



Test antenna\_ (XZ plane)

|            |          |
|------------|----------|
| Horizontal | Vertical |
|------------|----------|



Rad #1: Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_H\_TX\_05\_CORR  
Rad #2: Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_H\_TX\_44\_CORR  
Rad #3: Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_H\_TX\_74\_CORR

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### Radiation pattern #1:

Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_H\_TX\_05\_CORR

Average power = **-6.36 dBm**  
Front average power = **-5.13 dBm** (From 0 deg to 180 deg)  
Min power = **-15.60 dBm @ -165.00 deg**  
Max power = **-1.61 dBm @ 102.00 deg**

### Radiation pattern #2:

Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_H\_TX\_44\_CORR

Average power = **-4.99 dBm**  
Front average power = **-3.81 dBm** (From 0 deg to 180 deg)  
Min power = **-13.97 dBm @ -171.00 deg**  
Max power = **-0.12 dBm @ 90.00 deg**

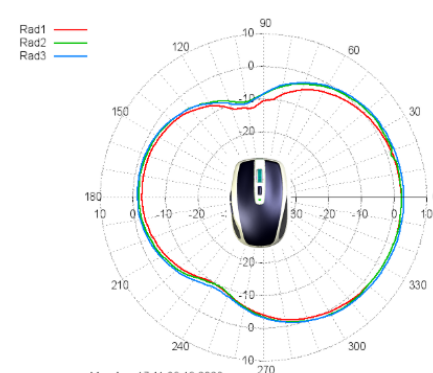
Delta max power = **1.48 dBm**  
Delta average power = **1.37 dBm**  
Delta front average power = **1.32 dBm**

### Radiation pattern #3:

Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_H\_TX\_74\_CORR

Average power = **-3.93 dBm**  
Front average power = **-2.87 dBm** (From 0 deg to 180 deg)  
Min power = **-13.18 dBm @ -171.00 deg**  
Max power = **0.95 dBm @ 87.00 deg**

Delta max power = **2.56 dBm**  
Delta average power = **2.42 dBm**  
Delta front average power = **2.26 dBm**



Rad #1: Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_V\_TX\_05\_CORR  
Rad #2: Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_V\_TX\_44\_CORR  
Rad #3: Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_V\_TX\_74\_CORR

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### Radiation pattern #1:

Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_V\_TX\_05\_CORR

Average power = **-3.40 dBm**  
Front average power = **-4.24 dBm** (From 0 deg to 180 deg)  
Min power = **-12.67 dBm @ 99.00 deg**  
Max power = **2.51 dBm @ -12.00 deg**

### Radiation pattern #2:

Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_V\_TX\_44\_CORR

Average power = **-2.52 dBm**  
Front average power = **-2.92 dBm** (From 0 deg to 180 deg)  
Min power = **-10.37 dBm @ 99.00 deg**  
Max power = **2.74 dBm @ -12.00 deg**

Delta max power = **0.23 dBm**  
Delta average power = **0.89 dBm**  
Delta front average power = **1.32 dBm**

### Radiation pattern #3:

Avalon\_Palau\_Silent\_AUT\_PA1\_XZ\_V\_TX\_74\_CORR

Average power = **-2.13 dBm**  
Front average power = **-2.69 dBm** (From 0 deg to 180 deg)  
Min power = **-11.00 dBm @ 102.00 deg**  
Max power = **3.16 dBm @ -15.00 deg**

Delta max power = **0.65 dBm**  
Delta average power = **1.27 dBm**  
Delta front average power = **1.55 dBm**

## Test antenna\_ (YZ plane)

### Horizontal

#### Radiation pattern #1:

Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_H\_TX\_05\_CORR

Average power = **-10.61 dBm**  
 Front average power = **-9.27 dBm** (From 0 deg to 180 deg)  
 Min power = **-22.72 dBm @ -99.00 deg**  
 Max power = **-4.22 dBm @ 150.00 deg**

#### Radiation pattern #2:

Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_H\_TX\_44\_CORR

Average power = **-9.73 dBm**  
 Front average power = **-9.61 dBm** (From 0 deg to 180 deg)  
 Min power = **-36.08 dBm @ -102.00 deg**  
 Max power = **-4.41 dBm @ 168.00 deg**

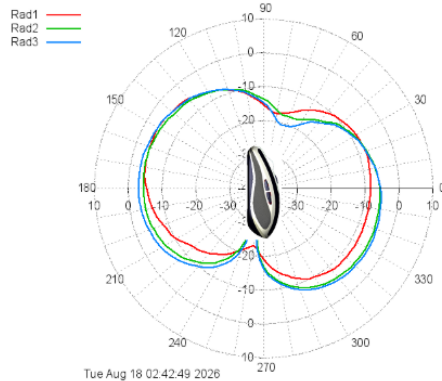
Delta max power = **-0.19 dBm**  
 Delta average power = **0.88 dBm**  
 Delta front average power = **-0.34 dBm**

#### Radiation pattern #3:

Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_H\_TX\_74\_CORR

Average power = **-9.27 dBm**  
 Front average power = **-9.87 dBm** (From 0 deg to 180 deg)  
 Min power = **-30.67 dBm @ -102.00 deg**  
 Max power = **-3.05 dBm @ 177.00 deg**

Delta max power = **1.16 dBm**  
 Delta average power = **1.34 dBm**  
 Delta front average power = **-0.60 dBm**



Rad #1: Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_H\_TX\_05\_CORR  
 Rad #2: Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_H\_TX\_44\_CORR  
 Rad #3: Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_H\_TX\_74\_CORR

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### Vertical

#### Radiation pattern #1:

Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_V\_TX\_05\_CORR

Average power = **-2.42 dBm**  
 Front average power = **-2.03 dBm** (From 0 deg to 180 deg)  
 Min power = **-4.89 dBm @ -96.00 deg**  
 Max power = **-0.75 dBm @ 3.00 deg**

#### Radiation pattern #2:

Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_V\_TX\_44\_CORR

Average power = **-0.69 dBm**  
 Front average power = **-0.01 dBm** (From 0 deg to 180 deg)  
 Min power = **-3.60 dBm @ -93.00 deg**  
 Max power = **0.62 dBm @ 12.00 deg**

Delta max power = **1.37 dBm**  
 Delta average power = **1.73 dBm**  
 Delta front average power = **2.02 dBm**

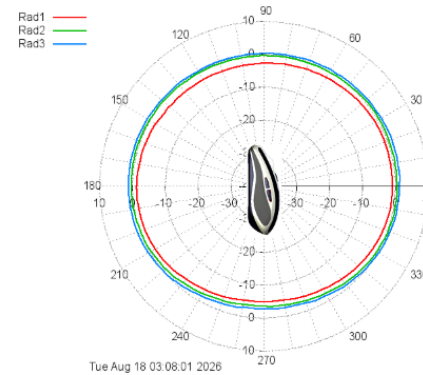
#### Radiation pattern #3:

Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_V\_TX\_74\_CORR

Average power = **0.07 dBm**  
 Front average power = **0.71 dBm** (From 0 deg to 180 deg)

Min power = **-2.79 dBm @ -90.00 deg**  
 Max power = **1.46 dBm @ 15.00 deg**

Delta max power = **2.21 dBm**  
 Delta average power = **2.48 dBm**  
 Delta front average power = **2.74 dBm**



Rad #1: Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_V\_TX\_05\_CORR  
 Rad #2: Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_V\_TX\_44\_CORR  
 Rad #3: Avalon\_Palau\_Silent\_AUT\_PA1\_YZ\_V\_TX\_74\_CORR

[imgfile: tmp/\_gnuplot20260818-20113-185wj11-0.png]