

# FCC and ISED Test Report

Apple Inc  
Model: A3427



In accordance with FCC 47 CFR Part 15B,  
ICES-003 and ISED RSS-GEN

Prepared for: Apple Inc  
One Apple Park Way  
Cupertino  
California  
95014  
USA

TUV SUD  
SERVICES  
(UK) LIMITED

Digitally signed by  
TUV SUD SERVICES  
(UK) LIMITED  
Date: 2026.01.07  
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## COMMERCIAL-IN-CONFIDENCE

Document 75963990-35 Issue 01



### SIGNATURE

*Andrew Lawson*

| NAME          | JOB TITLE           | RESPONSIBLE FOR      | ISSUE DATE      |
|---------------|---------------------|----------------------|-----------------|
| Andrew Lawson | Chief Engineer, EMC | Authorised Signatory | 07 January 2026 |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

### ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15B and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME                      | DATE            | SIGNATURE                        |
|-----------------|---------------------------|-----------------|----------------------------------|
| Testing         | Sreemon Jayachandran Nair | 07 January 2026 | <i>Sreemon Jayachandran Nair</i> |

FCC Accreditation

492497/UK2010 Octagon House, Fareham Test Laboratory

ISED Accreditation

12669A/UK0003 Octagon House, Fareham Test Laboratory

### EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15B, ICES-003 and ISED RSS-GEN: 2024, Issue 7: 2020 and Issue 5 and A2 (2021-02) for the tests detailed in section 1.3.



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Glasgow G75 0QF, United Kingdom  
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TÜV SÜD Ltd is a  
TÜV SÜD Group Company

Phone: +44 (0) 1489 558100  
Fax: +44 (0) 1489 558101  
[www.tuvsud.com/en](http://www.tuvsud.com/en)

TÜV SÜD  
Octagon House  
Concorde Way  
Fareham  
Hampshire PO15 5RL  
United Kingdom



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# 1 Report Summary

## 1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Description of Change | Date of Issue |
|-------|-----------------------|---------------|
| 1     | First Issue           | 07-Jan-2026   |

Table 1

## 1.2 Introduction

|                               |                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------|
| Applicant                     | Apple Inc                                                                                   |
| Manufacturer                  | Apple Inc                                                                                   |
| EUT/Sample Identification     | Refer to section 1.6                                                                        |
| Test Specification/Issue/Date | FCC 47 CFR Part 15B: 2024<br>ICES-003, Issue 7: 2020<br>ISED RSS-GEN, Issue 5, A2 (2021-02) |
| Start of Test                 | 10-November-2025                                                                            |
| Finish of Test                | 14-November-2025                                                                            |
| Name of Engineer(s)           | Sreemon Jayachandran Nair                                                                   |
| Related Document(s)           | ANSI C63.4: 2014                                                                            |



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15B, and ISED RSS-GEN is shown below.

| Section                                               | Specification Clause  | Test Description                   | Result | Comments/Base Standard |
|-------------------------------------------------------|-----------------------|------------------------------------|--------|------------------------|
| Configuration and Mode: AC Powered - Transmitter Idle |                       |                                    |        |                        |
| 2.1                                                   | 15.107, 3.2.1 and 4.4 | Conducted Emissions, AC Power Port | Pass   | ANSI C63.4: 2014       |
| 2.2                                                   | 15.109, 3.2.2 and 4.4 | Radiated Emissions                 | Pass   | ANSI C63.4: 2014       |

**Table 2**



## 1.4 Product Information

### 1.4.1 Technical Description

The equipment under test (EUT) was a portable laptop computer.

### 1.4.2 EUT Port/Cable Identification

| Port                                                   | Max Cable Length specified | Usage                 | Type                                      | Screened |
|--------------------------------------------------------|----------------------------|-----------------------|-------------------------------------------|----------|
| Configuration and Mode: AC Powered - Transmitters Idle |                            |                       |                                           |          |
| AC Power Port                                          | 2 m                        | Main Power            | AC to DC Power Adapter with USB-C output. | No       |
| USB Port 1                                             | 1.5 m                      | Power/Data            | USB Type-C                                | Yes      |
| USB Port 2                                             | 1.5 m                      | Power/Data            | USB Type-C                                | Yes      |
| USB Port 3                                             | 1.5 m                      | Power/Data            | USB Type-C                                | Yes      |
| HDMI Port                                              | 1.5 m                      | Display out.          | HDMI                                      | No       |
| Audio Jack Port                                        | 1 m                        | Analogue Audio Output | 3.5 mm Jack                               | No       |

**Table 3**

### 1.4.3 Test Configuration

| Configuration | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Powered    | <p>The EUT was powered from a 115 V 60 Hz AC supply using an AC to DC adapter with USB-C output and MagSafe cable.<br/>PSU Model: A2166</p> <p>The EUT had the following connections made:</p> <ul style="list-style-type: none"><li>• A keyboard was used to terminate USB Port 1.</li><li>• USB Port 2 was unterminated.</li><li>• USB Port 3 was unterminated.</li><li>• A set of headphones were used to terminate the Audio Jack Port.</li><li>• A monitor was used to terminate the HDMI port.</li></ul> |

**Table 4**

### 1.4.4 Modes of Operation

| Mode             | Description                                                  |
|------------------|--------------------------------------------------------------|
| Transmitter Idle | The EUT was powered with all internal transmitters disabled. |

**Table 5**

## 1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.



## 1.6 Identification of the EUT

The table below details identification of the EUT(s) that have been used to carry out the testing within this report.

| Serial Number | Hardware Version | Software Version |
|---------------|------------------|------------------|
| HFHFPYFYGP    | REV1.0           | 25D53            |

**Table 6**

## 1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

| Modification State                      | Description of Modification still fitted to EUT | Modification Fitted By | Date Modification Fitted |
|-----------------------------------------|-------------------------------------------------|------------------------|--------------------------|
| Model: A3427, Serial Number: HFHFPYFYGP |                                                 |                        |                          |
| 0                                       | As supplied by the customer                     | Not Applicable         | Not Applicable           |

**Table 7**

## 1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

| Test Name                                             | Name of Engineer(s)       | Accreditation |
|-------------------------------------------------------|---------------------------|---------------|
| Configuration and Mode: AC Powered - Transmitter Idle |                           |               |
| Conducted Emissions, AC Power Port                    | Sreemon Jayachandran Nair | UKAS          |
| Radiated Emissions                                    | Sreemon Jayachandran Nair | UKAS          |

**Table 8**

Office Address:

TÜV SÜD  
Octagon House  
Concorde Way  
Fareham  
Hampshire  
PO15 5RL  
United Kingdom



## 2 Test Details

### 2.1 Conducted Emissions, AC Power Port

#### 2.1.1 Specification Reference

FCC 47 CFR Part 15B, ICES-003 and ISSED RSS-GEN, Clause 15.107, 3.2.1 and 4.4

#### 2.1.2 Equipment Under Test and Modification State

A3427, S/N: HFHFPYFYGP - Modification State 0

#### 2.1.3 Date of Test

14-November-2025

#### 2.1.4 Test Method

The EUT was setup according to ANSI C63.4, clause 5.2.

The EUT was placed on a non-conductive table 0.8 m above a reference ground plane. A vertical coupling plane was placed 0.4 m from the EUT boundary

A Line Impedance Stabilisation Network (LISN) was directly bonded to the ground-plane. The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN was 0.8 m.

Interconnecting cables that hanged closer than 0.4 m to the ground plane were folded back and forth in the centre forming a bundle 0.3 m to 0.4 m long.

Input and output cables were terminated with equipment or loads representative of real usage conditions.

The EUT was configured to give the highest level of emissions within reason of a typical installation as described by the manufacturer.

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range.

Where all pre-scan peak emissions measured were greater than 20 dB below the CISPR Average test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the CISPR Average test limit, the six highest pre-scan emissions seen across the frequency range were measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

#### 2.1.5 Example Calculation

Quasi-Peak level (dB $\mu$ V) = Receiver level (dB $\mu$ V) + Correction Factor (dB)  
Margin (dB) = Quasi-Peak level (dB $\mu$ V) - Limit (dB $\mu$ V)

CISPR Average level (dB $\mu$ V) = Receiver level (dB $\mu$ V) + Correction Factor (dB)  
Margin (dB) = CISPR Average level (dB $\mu$ V) - Limit (dB $\mu$ V)

## 2.1.6 Example Test Setup Diagram

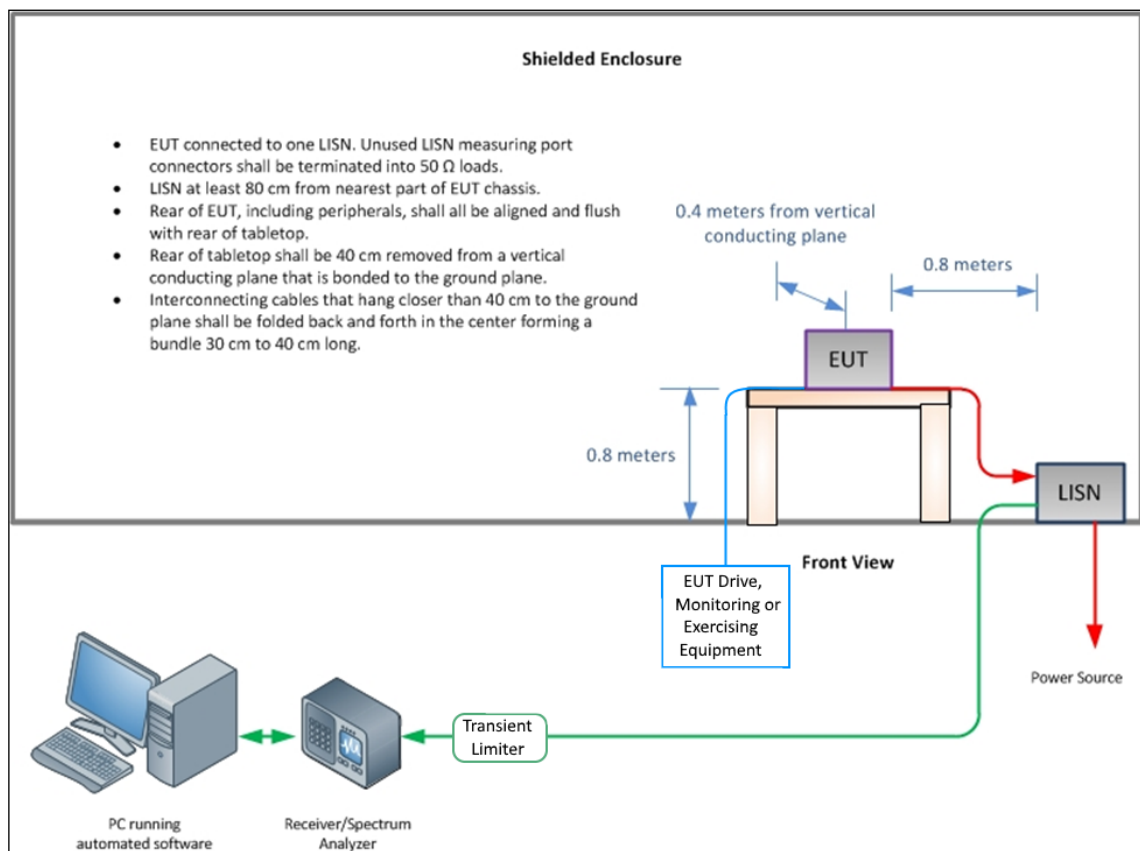


Figure 1 - Conducted Emissions Example Test Setup

## 2.1.7 Environmental Conditions

Ambient Temperature 23.2 °C  
Relative Humidity 54.9 %  
Atmospheric Pressure 989.0 mbar

## 2.1.8 Specification Limits

| Required Specification Limits - Class B                                                     |                       |                              |                                 |
|---------------------------------------------------------------------------------------------|-----------------------|------------------------------|---------------------------------|
| Line Under Test                                                                             | Frequency Range (MHz) | Quasi-Peak Test Limit (dBμV) | CISPR Average Test Limit (dBμV) |
| AC Power Port                                                                               | 0.15 to 0.5           | 66 to 56 <sup>(1)</sup>      | 56 to 46 <sup>(1)</sup>         |
|                                                                                             | 0.5 to 5              | 56                           | 46                              |
|                                                                                             | 5 to 30               | 60                           | 50                              |
| <b>Supplementary information:</b><br>Note 1. Decreases with the logarithm of the frequency. |                       |                              |                                 |

Table 9

## 2.1.9 Test Results

### Results for Configuration and Mode: AC Powered - Transmitter Idle.

This test was performed to the requirements of the Class B limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

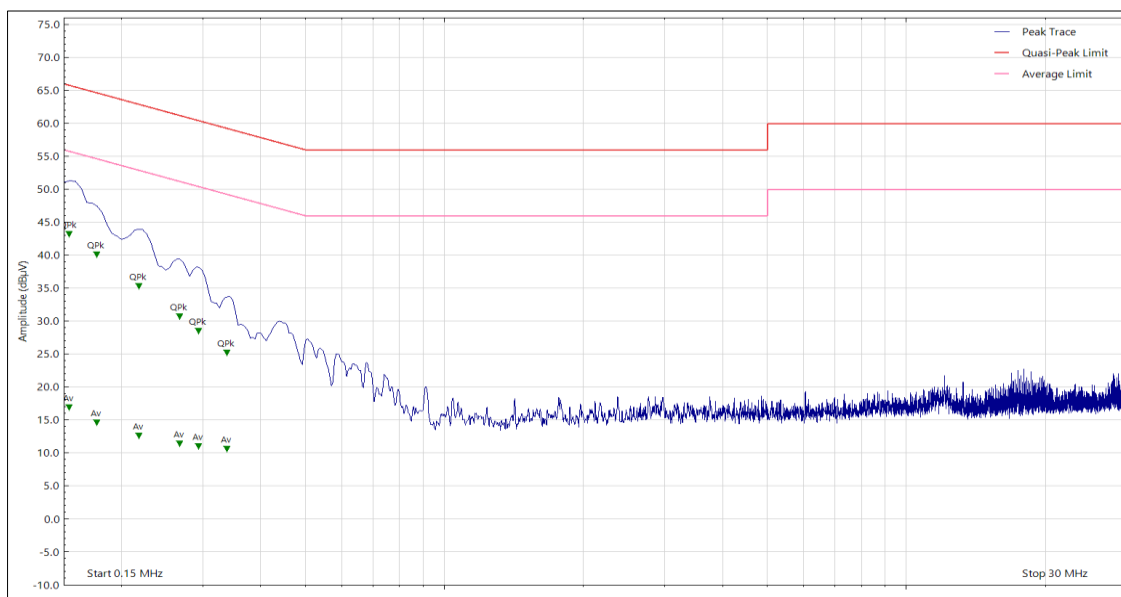
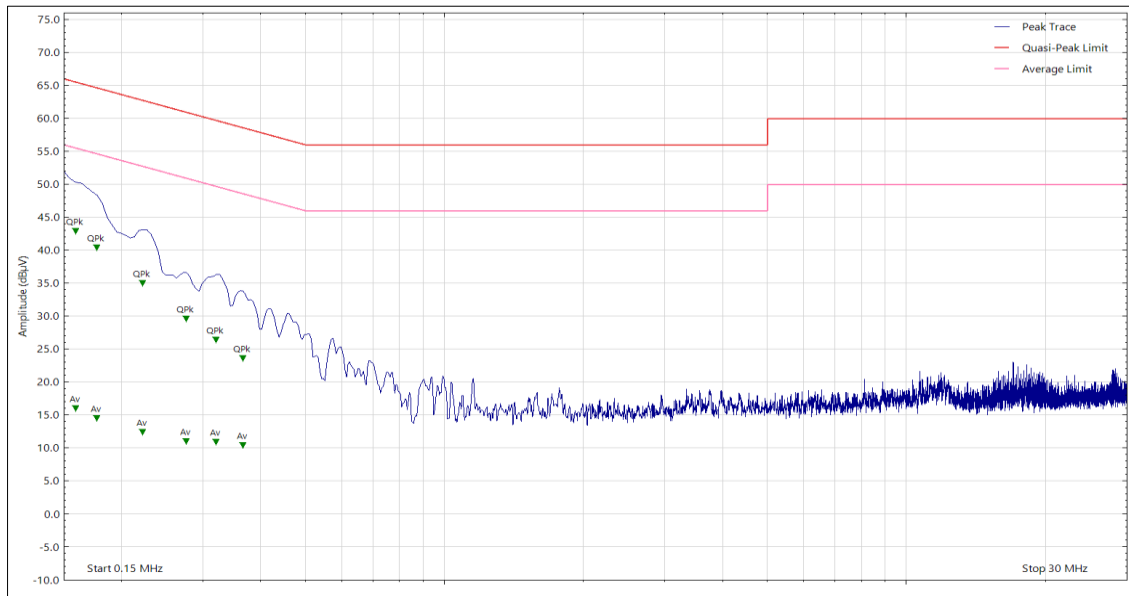


Figure 2 - Graphical Results - AC power port -Live

| Frequency (MHz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector  |
|-----------------|--------------|--------------|-------------|-----------|
| 0.154           | 42.48        | 65.80        | -23.32      | Q-Peak    |
| 0.154           | 16.19        | 55.80        | -39.61      | CISPR Avg |
| 0.177           | 39.35        | 64.60        | -25.25      | Q-Peak    |
| 0.177           | 13.97        | 54.60        | -40.63      | CISPR Avg |
| 0.218           | 34.62        | 62.90        | -28.28      | Q-Peak    |
| 0.218           | 11.96        | 52.90        | -40.94      | CISPR Avg |
| 0.267           | 29.98        | 61.20        | -31.22      | Q-Peak    |
| 0.267           | 10.71        | 51.20        | -40.49      | CISPR Avg |
| 0.294           | 27.83        | 60.40        | -32.57      | Q-Peak    |
| 0.294           | 10.29        | 50.40        | -40.11      | CISPR Avg |
| 0.339           | 24.51        | 59.20        | -34.69      | Q-Peak    |
| 0.339           | 9.93         | 49.20        | -39.27      | CISPR Avg |

Table 10



**Figure 3 - Graphical Results - AC power port -Neutral**

| Frequency (MHz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector  |
|-----------------|--------------|--------------|-------------|-----------|
| 0.159           | 42.16        | 65.50        | -23.34      | Q-Peak    |
| 0.159           | 15.36        | 55.50        | -40.14      | CISPR Avg |
| 0.177           | 39.65        | 64.60        | -24.95      | Q-Peak    |
| 0.177           | 13.86        | 54.60        | -40.74      | CISPR Avg |
| 0.222           | 34.32        | 62.80        | -28.48      | Q-Peak    |
| 0.222           | 11.74        | 52.80        | -41.06      | CISPR Avg |
| 0.276           | 28.93        | 60.90        | -31.97      | Q-Peak    |
| 0.276           | 10.34        | 50.90        | -40.56      | CISPR Avg |
| 0.321           | 25.71        | 59.70        | -33.99      | Q-Peak    |
| 0.321           | 10.21        | 49.70        | -39.49      | CISPR Avg |
| 0.366           | 22.96        | 58.60        | -35.64      | Q-Peak    |
| 0.366           | 9.75         | 48.60        | -38.85      | CISPR Avg |

**Table 11**



#### 2.1.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

| Instrument                    | Manufacturer    | Type No              | TE No | Calibration Period (months) | Calibration Expires |
|-------------------------------|-----------------|----------------------|-------|-----------------------------|---------------------|
| 3m Semi-Anechoic Chamber      | MVG             | EMC Chamber 12       | 5621  | 36                          | 07-Aug-2026         |
| Emissions Software            | TUV SUD         | EmX V3.5.5           | 5125  | -                           | Software            |
| Test Receiver                 | Rohde & Schwarz | ESW44                | 5382  | 12                          | 09-Oct-2026         |
| Transient Limiter             | Hewlett Packard | 11947A               | 1032  | 12                          | 16-Jan-2026         |
| Cable (N-Type to N-Type, 2 m) | Teledyne        | 269-0078-2000        | 3325  | 12                          | 12-Sep-2026         |
| Cable (N-Type to N-Type, 8 m) | Junkosha        | MWX221-08000NMSNMS/B | 7054  | 12                          | 01-Jun-2026         |
| LISN (CISPR 16, Single Phase) | Rohde & Schwarz | ESH3-Z5              | 1390  | 12                          | 04-Feb-2026         |
| Thermo-Hygro-Barometer        | PCE Instruments | PCE-THB-40           | 5471  | 12                          | 14-May-2026         |

**Table 12**



## **2.2 Radiated Emissions**

### **2.2.1 Specification Reference**

FCC 47 CFR Part 15B, ICES-003 and ISSED RSS-GEN, Clause 15.109, 3.2.2 and 4.4

### **2.2.2 Equipment Under Test and Modification State**

A3427, S/N: HFHFPYFYGP - Modification State 0

### **2.2.3 Date of Test**

10-November-2025 to 13-November-2025

### **2.2.4 Test Method**

The EUT was set up in a semi-anechoic chamber in the centre of a remotely controlled turntable and placed on a non-conductive table 0.8 m above a reference ground plane

A Peak detector pre-scan of the EUT emissions profile was measured across the appropriate frequency range while varying the antenna-to-EUT azimuth and polarisation. Measurements were made using a 3 m distance between the declared antenna measurement point and the EUT.

Where all pre-scan peak emissions measured were greater than 20 dB below the test limit, no final measurements were made in accordance with ANSI C63.4.

Where any pre-scan peak emissions were within 20 dB of the test limit, the six highest pre-scan peak emissions seen across the frequency range were maximised by adjusting antenna height, polarisation and angle and then measured for at least 15 seconds using a Peak, Quasi-Peak or CISPR Average detector as appropriate to the test limit being measured against.

### **2.2.5 Example Calculation**

Below 1 GHz:

$$\begin{aligned}\text{Quasi-Peak level (dB}\mu\text{V/m)} &= \text{Receiver level (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ \text{Margin (dB)} &= \text{Quasi-Peak level (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}\end{aligned}$$

Above 1 GHz:

$$\begin{aligned}\text{CISPR Average level (dB}\mu\text{V/m)} &= \text{Receiver level (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ \text{Margin (dB)} &= \text{CISPR Average level (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}\end{aligned}$$

$$\begin{aligned}\text{Peak level (dB}\mu\text{V/m)} &= \text{Receiver level (dB}\mu\text{V)} + \text{Correction Factor (dB/m)} \\ \text{Margin (dB)} &= \text{Peak level (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}\end{aligned}$$

## 2.2.6 Example Test Setup Diagram

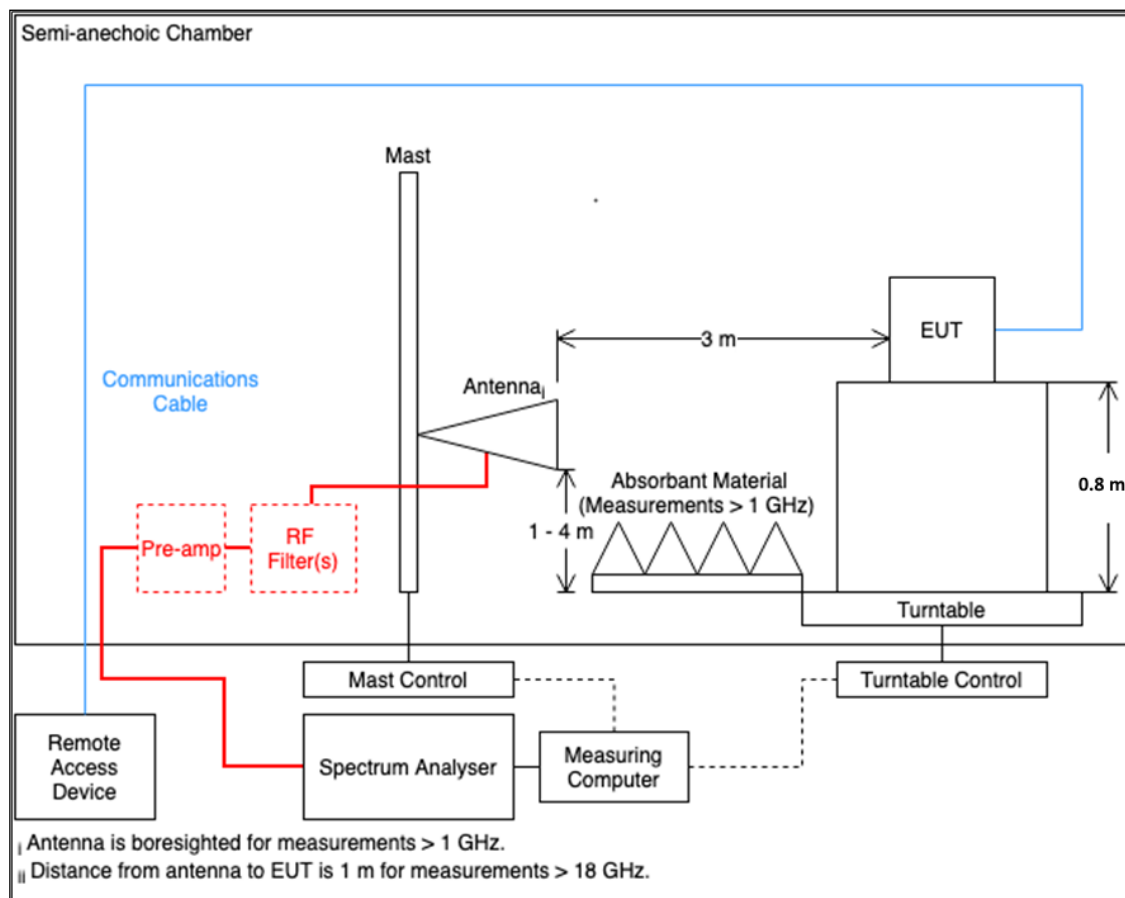


Figure 4 - Radiated Emissions Example Test Setup

## 2.2.7 Environmental Conditions

|                      |            |
|----------------------|------------|
| Ambient Temperature  | 19.8 °C    |
| Relative Humidity    | 55.8 %     |
| Atmospheric Pressure | 998.0 mbar |

## 2.2.8 Specification Limits

| Required Specification Limits, Field Strength - Class B Test Limit at a 3 m Measurement Distance |                   |                     |
|--------------------------------------------------------------------------------------------------|-------------------|---------------------|
| Frequency Range (MHz)                                                                            | Test Limit (µV/m) | Test Limit (dBµV/m) |
| 30 to 88                                                                                         | 100               | 40.0                |
| 88 to 216                                                                                        | 150               | 43.5                |
| 216 to 960                                                                                       | 200               | 46.0                |
| Above 960                                                                                        | 500               | 54.0                |

**Supplementary information:**  
 Note 1. A Quasi-peak detector is to be used for measurements below 1 GHz.  
 Note 2. A CISPR Average detector is to be used for measurements above 1 GHz.  
 Note 3. The Peak test limit above 1 GHz is 20 dB higher than the CISPR Average test limit.

Table 13

## 2.2.9 Test Results

### Results for Configuration and Mode: AC Powered - Transmitter Idle.

This test was performed to the requirements of Class B limits.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Highest internally generated frequency within the EUT: 6 GHz  
Which necessitates an upper frequency test limit of: 30 GHz

Applied Supply Voltage: 115 V AC  
Applied Supply Frequency: 60 Hz

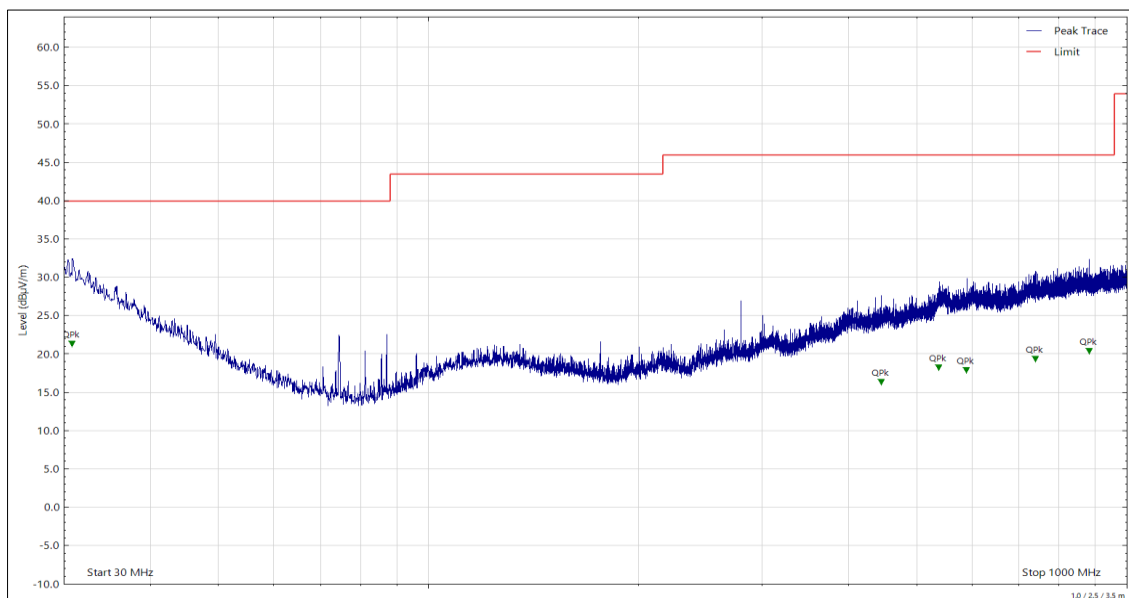


Figure 5 - 30 MHz to 1 GHz, Quasi-Peak, Horizontal

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 30.850          | 20.76          | 40.00          | -19.24      | Q-Peak   | 199       | 390         | Horizontal   |
| 444.706         | 15.74          | 46.00          | -30.26      | Q-Peak   | 167       | 100         | Horizontal   |
| 538.426         | 17.59          | 46.00          | -28.41      | Q-Peak   | 335       | 313         | Horizontal   |
| 589.966         | 17.29          | 46.00          | -28.71      | Q-Peak   | 357       | 242         | Horizontal   |
| 740.028         | 18.73          | 46.00          | -27.27      | Q-Peak   | 223       | 110         | Horizontal   |
| 883.962         | 19.80          | 46.00          | -26.20      | Q-Peak   | 337       | 200         | Horizontal   |

Table 14

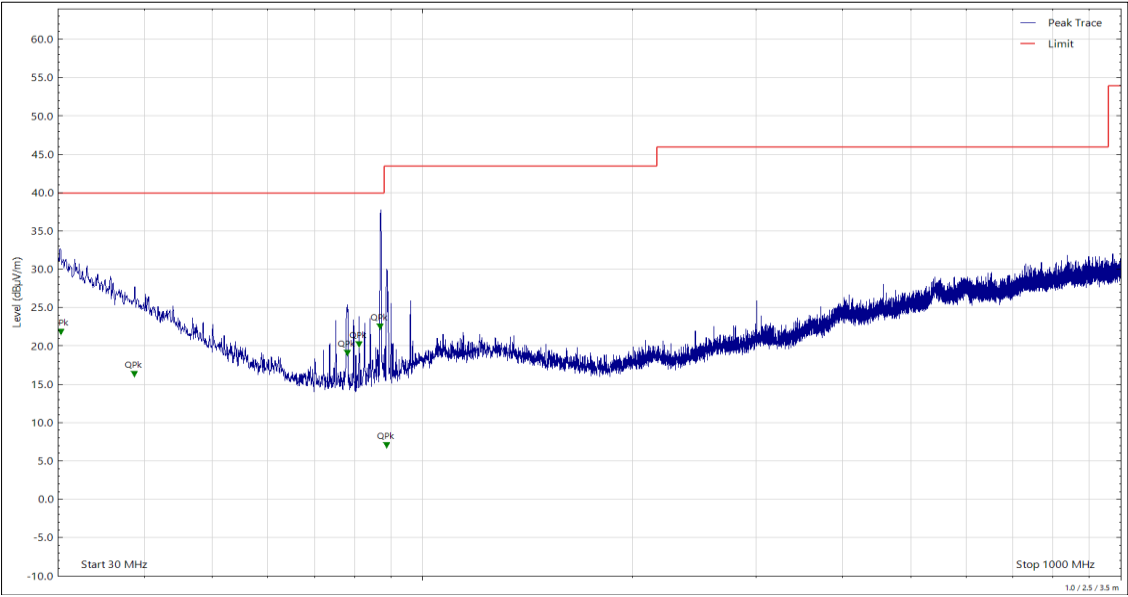


Figure 6 - 30 MHz to 1 GHz, Quasi-Peak, Vertical

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 30.300          | 21.27          | 40.00          | -18.73      | Q-Peak   | 359       | 347         | Vertical     |
| 38.640          | 15.72          | 40.00          | -24.28      | Q-Peak   | 231       | 354         | Vertical     |
| 77.999          | 18.53          | 40.00          | -21.47      | Q-Peak   | 238       | 104         | Vertical     |
| 80.999          | 19.64          | 40.00          | -20.36      | Q-Peak   | 236       | 107         | Vertical     |
| 87.002          | 21.90          | 40.00          | -18.10      | Q-Peak   | 225       | 122         | Vertical     |
| 88.739          | 6.42           | 43.50          | -37.08      | Q-Peak   | 243       | 260         | Vertical     |

Table 15

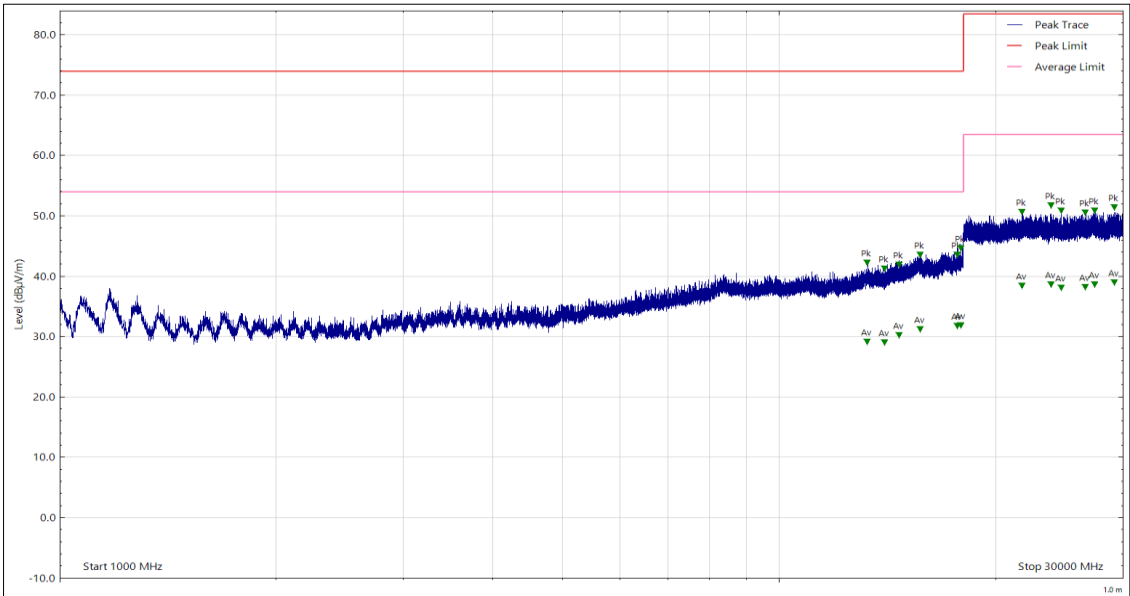


Figure 7 - 1 GHz to 30 GHz, Peak & CISPR Average, Horizontal



| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 13246.910       | 41.53          | 74.00          | -32.47      | Peak      | 350       | 254         | Horizontal   |
| 13246.910       | 28.41          | 54.00          | -25.59      | CISPR Avg | 350       | 254         | Horizontal   |
| 14004.698       | 40.47          | 74.00          | -33.53      | Peak      | 335       | 243         | Horizontal   |
| 14004.698       | 28.22          | 54.00          | -25.78      | CISPR Avg | 335       | 243         | Horizontal   |
| 14671.870       | 41.15          | 74.00          | -32.85      | Peak      | 219       | 253         | Horizontal   |
| 14671.870       | 29.42          | 54.00          | -24.58      | CISPR Avg | 219       | 253         | Horizontal   |
| 15690.723       | 42.83          | 74.00          | -31.17      | Peak      | 257       | 389         | Horizontal   |
| 15690.723       | 30.48          | 54.00          | -23.52      | CISPR Avg | 257       | 389         | Horizontal   |
| 17655.755       | 42.80          | 74.00          | -31.20      | Peak      | 349       | 288         | Horizontal   |
| 17655.755       | 30.96          | 54.00          | -23.04      | CISPR Avg | 349       | 288         | Horizontal   |
| 17868.111       | 43.91          | 74.00          | -30.09      | Peak      | 350       | 373         | Horizontal   |
| 17868.111       | 31.15          | 54.00          | -22.85      | CISPR Avg | 350       | 373         | Horizontal   |
| 21715.311       | 49.91          | 83.50          | -33.59      | Peak      | 171       | 100         | Horizontal   |
| 21715.311       | 37.62          | 63.50          | -25.88      | CISPR Avg | 171       | 100         | Horizontal   |
| 23845.098       | 50.93          | 83.50          | -32.57      | Peak      | 0         | 100         | Horizontal   |
| 23845.098       | 37.91          | 63.50          | -25.59      | CISPR Avg | 0         | 100         | Horizontal   |
| 24641.446       | 50.11          | 83.50          | -33.39      | Peak      | 342       | 100         | Horizontal   |
| 24641.446       | 37.36          | 63.50          | -26.14      | CISPR Avg | 342       | 100         | Horizontal   |
| 26632.885       | 49.79          | 83.50          | -33.71      | Peak      | 26        | 100         | Horizontal   |
| 26632.885       | 37.45          | 63.50          | -26.05      | CISPR Avg | 26        | 100         | Horizontal   |
| 27423.000       | 50.05          | 83.50          | -33.45      | Peak      | 60        | 100         | Horizontal   |
| 27423.000       | 37.86          | 63.50          | -25.64      | CISPR Avg | 60        | 100         | Horizontal   |
| 29180.761       | 50.66          | 83.50          | -32.84      | Peak      | 242       | 100         | Horizontal   |
| 29180.761       | 38.16          | 63.50          | -25.34      | CISPR Avg | 242       | 100         | Horizontal   |

**Table 16**

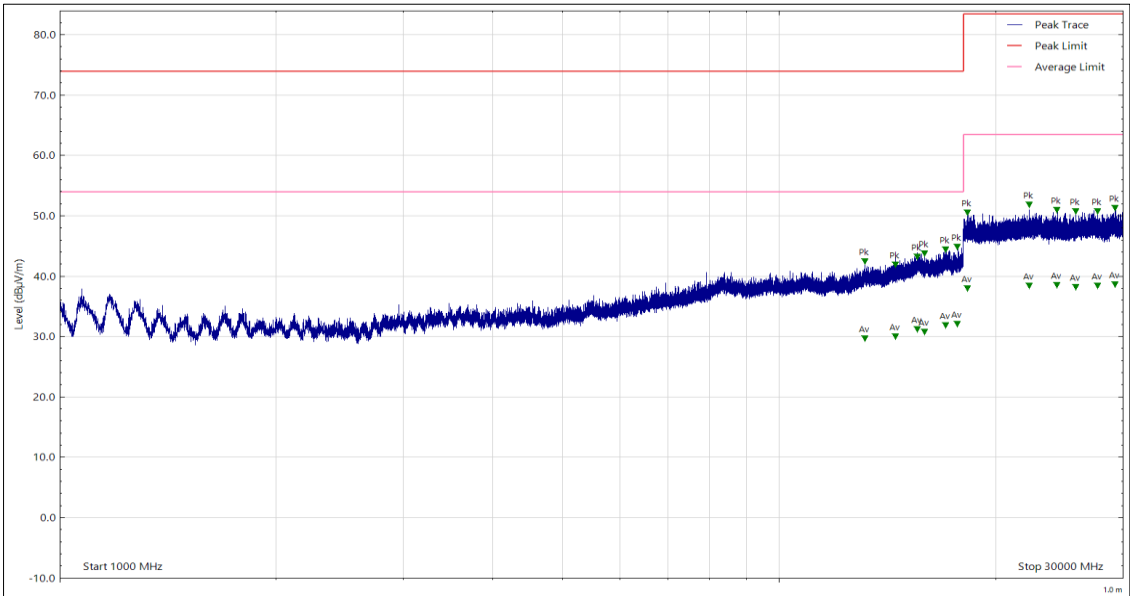


Figure 8 - 1 GHz to 30 GHz, Peak & CISPR Average, Vertical



| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 13146.181       | 41.70          | 74.00          | -32.30      | Peak      | 155       | 397         | Vertical     |
| 13146.181       | 28.88          | 54.00          | -25.12      | CISPR Avg | 155       | 397         | Vertical     |
| 14491.527       | 41.20          | 74.00          | -32.80      | Peak      | 95        | 360         | Vertical     |
| 14491.527       | 29.24          | 54.00          | -24.76      | CISPR Avg | 95        | 360         | Vertical     |
| 15548.829       | 42.42          | 74.00          | -31.58      | Peak      | 282       | 365         | Vertical     |
| 15548.829       | 30.47          | 54.00          | -23.53      | CISPR Avg | 282       | 365         | Vertical     |
| 15903.486       | 42.97          | 74.00          | -31.03      | Peak      | 226       | 186         | Vertical     |
| 15903.486       | 29.97          | 54.00          | -24.03      | CISPR Avg | 226       | 186         | Vertical     |
| 17021.808       | 43.66          | 74.00          | -30.34      | Peak      | 360       | 370         | Vertical     |
| 17021.808       | 31.10          | 54.00          | -22.90      | CISPR Avg | 360       | 370         | Vertical     |
| 17689.729       | 44.09          | 74.00          | -29.91      | Peak      | 150       | 380         | Vertical     |
| 17689.729       | 31.30          | 54.00          | -22.70      | CISPR Avg | 150       | 380         | Vertical     |
| 18275.820       | 49.74          | 83.50          | -33.76      | Peak      | 171       | 100         | Vertical     |
| 18275.820       | 37.24          | 63.50          | -26.26      | CISPR Avg | 171       | 100         | Vertical     |
| 22245.371       | 51.08          | 83.50          | -32.42      | Peak      | 274       | 100         | Vertical     |
| 22245.371       | 37.70          | 63.50          | -25.80      | CISPR Avg | 274       | 100         | Vertical     |
| 24320.591       | 50.23          | 83.50          | -33.27      | Peak      | 12        | 100         | Vertical     |
| 24320.591       | 37.72          | 63.50          | -25.78      | CISPR Avg | 12        | 100         | Vertical     |
| 25796.563       | 50.03          | 83.50          | -33.47      | Peak      | 203       | 100         | Vertical     |
| 25796.563       | 37.42          | 63.50          | -26.08      | CISPR Avg | 203       | 100         | Vertical     |
| 27669.542       | 50.02          | 83.50          | -33.48      | Peak      | 268       | 100         | Vertical     |
| 27669.542       | 37.66          | 63.50          | -25.84      | CISPR Avg | 268       | 100         | Vertical     |
| 29270.654       | 50.59          | 83.50          | -32.91      | Peak      | 211       | 100         | Vertical     |
| 29270.654       | 37.87          | 63.50          | -25.63      | CISPR Avg | 211       | 100         | Vertical     |

Table 17



## 2.2.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

| Instrument                                       | Manufacturer        | Type No              | TE No | Calibration Period (months) | Calibration Expires |
|--------------------------------------------------|---------------------|----------------------|-------|-----------------------------|---------------------|
| 3m Semi-Anechoic Chamber                         | MVG                 | EMC Chamber 12       | 5621  | 36                          | 07-Aug-2026         |
| Emissions Software                               | TUV SUD             | EmX V3.5.5           | 5125  | -                           | Software            |
| Test Receiver                                    | Rohde & Schwarz     | ESW44                | 5382  | 12                          | 09-Oct-2026         |
| Turntable & Mast Controller                      | Maturo Gmbh         | NCD/498/2799.01      | 5612  | -                           | TU                  |
| Tilt Antenna Mast                                | Maturo Gmbh         | TAM 4.0-P            | 5613  | -                           | TU                  |
| 3.5 mm 1m Cable                                  | Junkosha            | MWX221-01000DMS      | 5419  | 12                          | 15-Aug-2026         |
| 2m Coaxial Cable Assy                            | Junkosha            | MWX221-02000AMSAMS/A | 6357  | 12                          | 13-May-2026         |
| Cable (2.92 mm(f)-N(m), 2 m)                     | Junkosha            | MWX241-02000KFSNMS/B | 6965  | 6                           | 14-Feb-2026         |
| Cable (N-Type to N-Type, 8 m)                    | Junkosha            | MWX221-08000NMSNMS/B | 7054  | 12                          | 01-Jun-2026         |
| Pre-Amplifier (1 GHz to 18 GHz)                  | Schwarzbeck         | BBV 9718 C           | 5350  | 12                          | 16-Dec-2025         |
| Pre-Amplifier (8 - 18GHz)                        | Wright Technologies | APS06-0061           | 6306  | 12                          | 18-Jul-2026         |
| Pre-Amplifier (18 GHz to 40 GHz)                 | Schwarzbeck         | BBV 9721             | 5218  | 12                          | 12-May-2026         |
| Antenna (Bilog with attenuator, 30 MHz to 3 GHz) | Schaffner           | CBL6143              | 287   | 24                          | 29-Aug-2026         |
| Antenna (DRG, 1 GHz to 10.5 GHz)                 | Schwarzbeck         | BBHA9120B            | 5611  | 12                          | 14-Sep-2026         |
| Antenna (DRG, 7.5 GHz to 18 GHz)                 | Schwarzbeck         | HWRD750              | 5216  | 12                          | 12-Jul-2026         |
| Antenna (DRG, 15 GHz to 40 GHz)                  | Schwarzbeck         | BBHA 9170            | 5217  | 12                          | 12-May-2026         |
| Thermo-Hygro-Barometer                           | PCE Instruments     | PCE-THB-40           | 5471  | 12                          | 14-May-2026         |

**Table 18**

TU - Traceability Unscheduled



### 3 Test Equipment Information

#### 3.1 General Test Equipment Used

| Instrument     | Manufacturer | Type No       | TE No | Calibration Period (months) | Calibration Expires |
|----------------|--------------|---------------|-------|-----------------------------|---------------------|
| Multimeter     | Fluke        | 79 Series III | 498   | 12                          | 26-Feb-2026         |
| Milliohm Meter | VICI         | 2682132       | 7012  | 12                          | 21-May-2026         |

**Table 19**



## **4 Incident Reports**

No incidents reports were raised.

## 5 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Test Name                          | Measurement Uncertainty                                                                                                                                                                   |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conducted Emissions, AC Power Port | 150 kHz to 30 MHz, LISN $\pm 3.3$ dB                                                                                                                                                      |
| Radiated Emissions                 | 30 MHz to 1 GHz, Bilog Antenna $\pm 5.17$ dB<br>1 GHz to 6 GHz, Horn Antenna $\pm 5.05$ dB<br>6 GHz to 18 GHz, Horn Antenna $\pm 4.94$ dB<br>18 GHz to 40 GHz, Horn Antenna $\pm 6.28$ dB |

**Table 20**

Worst case error for both Time and Frequency measurement 12 parts in  $10^6$ .

### Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.