# FCC and ISED Test Report

## Manufacturer: DOMO Tactical Communications (DTC) Software-Defined Radio (SDR) Module Model: BluSDR-30-198270-C

## In accordance with FCC 47 CFR Part 15B and ICES-003

Prepared for: DOMO Tactical Communications (DTC) Ltd
Fusion 2, 1100 Parkway
Whiteley
Fareham, PO15 7AB

FCC ID: XRF BLUSDR30198270 IC: 8638A BLU30198270

## COMMERCIAL-IN-CONFIDENCE

Document 75964615-01 Issue 03

| SIGNATURE | | | |
|---|---|---|---|
| A.J. Lawson | | | |
| **NAME** | **JOB TITLE** | **RESPONSIBLE FOR** | **ISSUE DATE** |
| Andrew Lawson | Chief Engineer, EMC | Authorised Signatory | 07 April 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 ICES-003. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|---|---|---|---|
| Testing | Adam Holloway | 07 April 2026 | |
| Testing | Matthew Dawkins | 07 April 2026 | |

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 and ICES-003: 2024 and Issue 7: 2020 for the tests detailed in section 1.3.



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# Contents

# 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 | 27-Oct-2025 |
| 2 | FCC ID and IC ID added on title page and section 1.4 | 27-Oct-2025 |
| 3 | Product Marketing Name (PMN), Hardware Version Identification Number (HVIN) and Firmware Version Identification Number (FVIN) added. | 07-Apr-2026 |

**Table 1**

## 1.2 Introduction

| | |
|---|---|
| Applicant | DOMO Tactical Communications (DTC) |
| Manufacturer | DOMO Tactical Communications (DTC) |
| Product Marketing Name (PMN) | BluSDR-30-C-198270-C (SOL8SDR2x1W-UC-198270) |
| Hardware Version Identification Number (HVIN) | SA4678 |
| Serial Number(s) | FR009550 |
| Hardware Version(s) | 8 |
| Firmware Version Identification Number (FVIN) | 8.4.1 |
| Number of Samples Tested | 1 |
| Test Specification/Issue/Date | FCC 47 CFR Part 15B and ICES-003: 2024 and Issue 7: 2020 |
| Order Number | PO-071314-1 |
| Date | 13-May-2025 |
| Date of Receipt of EUT | 03-March-2025 |
| Start of Test | 27-September-2025 |
| Finish of Test | 28-September-2025 |
| Name of Engineer(s) | Adam Holloway and Matthew Dawkins |
| 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 ICES-003 is shown below.

| Section | Specification Clause | Test Description | Result | Comments/Base Standard |
|---|---|---|---|---|
| Configuration and Mode: AC Powered - Idle | | | | |
| 2.1 | 15.107 and 3.2.1 | Conducted Disturbance at Mains Terminals | Pass | ANSI C63.4: 2014 |
| 2.2 | 15.109 and 3.2.2 | Radiated Disturbance | Pass | ANSI C63.4: 2014 |

**Table 2**

## 1.4 Declaration of Build Status

| MAIN EUT | |
|---|---|
| **MANUFACTURING DESCRIPTION** | BluSDR-30 2x1W Radio Module 1.98-2.70GHz |
| **MANUFACTURER** | Domo Tactical Communications Ltd |
| **PRODUCT MARKETING NAME (PMN)** | BluSDR-30-C-198270-C (SOL8SDR2x1W-UC-198270) |
| **MANUFACTURER DECLARED VARIANTS (IF APPLICABLE)** | SOL8SDR 2x1W Clamshell OEM Module 1.98-2.70GHz<br>SOL8SDR2x1W-UC-198270 (Identical product for different market) |
| **HARDWARE VERSION IDENTIFICATION NUMBER (HVIN)** | SA4678 |
| **SERIAL NUMBER (S/N)** | FR009550 |
| **HARDWARE VERSION** | 8 |
| **FIRMWARE VERSION IDENTIFICATION NUMBER (FVIN)** | 8.4.1 |
| **PSU VOLTAGE/FREQUENCY/CURRENT** | 8-17VDC (12V nom.) / 1.98-2.70GHz / 600mA typ. |
| **INTENDED OPERATING ENVIRONMENT** | Other - Please state: UxV |
| **DIMENSIONS/WEIGHT** | 95mm x 60mm x 15mm; 110g approx.. |
| **TYPICAL INSTALLATION** | Aircraft, Vehicle, Ground Control Station |
| **HIGHEST INTERNALLY GENERATED FREQUENCY** | 2.70GHz |
| **FCC ID (if applicable)** | XRF BLUSDR30198270 |
| **INDUSTRY CANADA ID (if applicable)** | 8638A BLU30198270 |
| **COUNTRY OF ORIGIN** | UK |
| **RF CHARACTERISTICS (if applicable)** | |
| **TRANSMITTER FREQUENCY OPERATING RANGE (MHz)** | 1.98-2.70GHz |
| **RECEIVER FREQUENCY OPERATING RANGE (MHz)** | 1.98-2.70GHz |
| **INTERMEDIATE FREQUENCIES** | None |
| **EMISSION DESIGNATOR(S):** **https://fccid.io/Emissions-Designator/** | 1M25D7W, 1M50D7W, 1M75D7W, 2M50D7W, 3M00D7W, 3M50D7W, 4M00D7W, 5M00D7W, 6M00D7W, 7M00D7W, 8M00D7W, 10M0D70, 12M0D7W, 14M0D7W, 16M0D7W, 20M0D7W |
| **MODULATION TYPES: (i.e. GMSK, QPSK)** | BPSK, QPSK, 16QAM, 64QAM (adaptive) |
| **OUTPUT POWER (W or dBm)** | 2 x 1W (2W maximum) |
| **SEPARATE BATTERY/POWER SUPPLY (if applicable)** | |
| **MANUFACTURING DESCRIPTION** | POWER SUPPLY, 12V 6.67A 80W |
| **MANUFACTUR** | Mean Well |
| **TYPE** | GST90A12-P1M |
| **PART NUMBER** | RS 880-8411 |
| **PSU VOLTAGE/FREQUENCY/CURRENT** | 12V / 6.67A / 80W |
| **COUNTRY OF ORIGIN** | China |
| **MODULES (if applicable)** | |

**Table 3**

I hereby declare that the information supplied is correct and complete.

Name: Neil McSparron
Position held: Consultant
Date 02 March 2025

*Note: No responsibility will be accepted by TÜV SÜD as to the accuracy of the information declared on this Build State Declaration by the manufacturer.*

## 1.5 Product Information

### 1.5.1 Technical Description

The Equipment under test (EUT) was a DOMO Tactical Communications (DTC) Software-Defined Radio (SDR) Module, Model: BluSDR-30-198270-C

The primary function of the EUT is to wirelessly stream video, audio and IP data over mesh technologies.

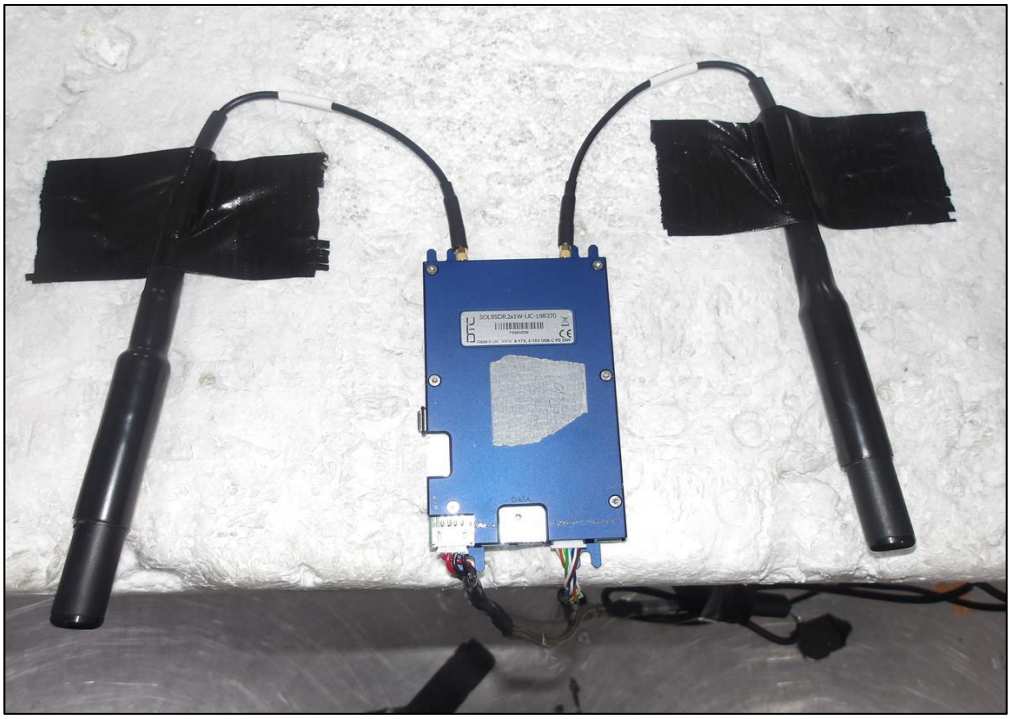

**Figure 1 – General View**

### 1.5.2 EUT Port/Cable Identification

| Port | Max Cable Length specified | Usage | Type | Screened |
|---|---|---|---|---|
| Configuration and Mode: AC Powered - Idle | | | | |
| AC Power Port | 1.5 m | Power | AC to DC Power converter | No |
| Ethernet Port | 1 m | Power | RS 232 | No |
| Antenna Port 1 | 0.3 m | RF Connection To Antenna | Co-axial | Yes |
| Antenna Port 2 | 0.3 m | RF Connection To Antenna | Co-axial | Yes |

**Table 4**

### 1.5.3 Test Configuration

| Configuration | Description |
|---|---|
| AC Powered | The EUT was powered from a 115 V 60 Hz AC supply.<br>The EUT had the following connections made:<br>• Ethernet Port terminated to customer supplied laptop.<br>• 2 x RF antenna ports connected via SMA cables to two Antennas. |

**Table 5**

### 1.5.4 Modes of Operation

| Mode | Description |
|---|---|
| Idle | The EUT was powered and setup in a non-transmitting mode. |

**Table 6**

## 1.6 Deviations from the Standard

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

## 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: BluSDR-30-198270-C, Serial Number: FR009550 | | | |
| 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 - Idle | | |
| Conducted Disturbance at Mains Terminals | Adam Holloway | UKAS |
| Radiated Disturbance | Adam Holloway and Matthew Dawkins | UKAS |

**Table 8**

Office Address:

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

# 2 Test Details

## 2.1 Conducted Disturbance at Mains Terminals

### 2.1.1 Specification Reference

FCC 47 CFR Part 15B and ICES-003, Clause 15.107 and 3.2.1

### 2.1.2 Equipment Under Test and Modification State

BluSDR-30-198270-C, S/N: FR009550 - Modification State 0

### 2.1.3 Date of Test

28-September-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 (dBµV) = Receiver level (dBµV) + Correction Factor (dB)
Margin (dB) = Quasi-Peak level (dBµV) - Limit (dBµV)

CISPR Average level (dBµV) = Receiver level (dBµV) + Correction Factor (dB)
Margin (dB) = CISPR Average level (dBµV) - Limit (dBµV)

### 2.1.6 Example Test Setup Diagram

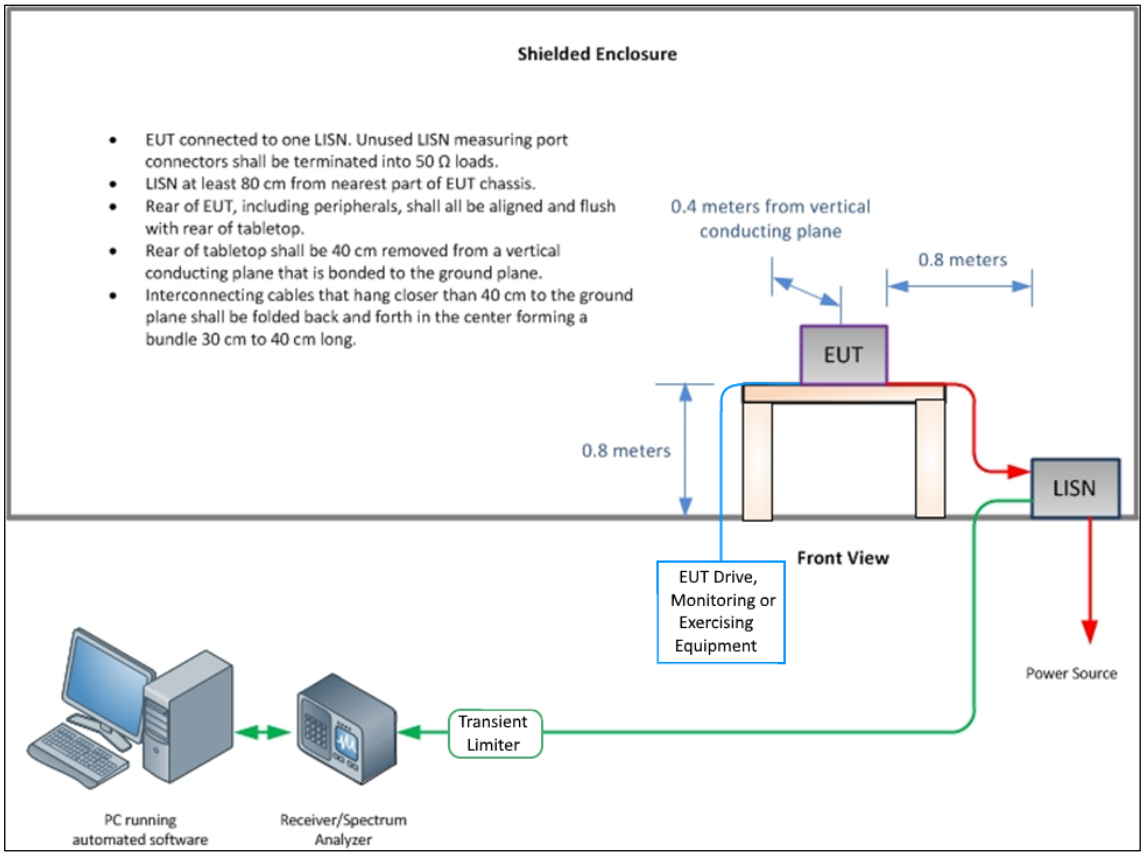


**Figure 2 - Conducted Disturbance**

### 2.1.7 Environmental Conditions

| | |
|---|---|
| Ambient Temperature | 18.3 °C |
| Relative Humidity | 57.1 % |
| Atmospheric Pressure | 1013.0 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(1) | 56 to 46(1) |
| | 0.5 to 5 | 56 | 46 |
| | 5 to 30 | 60 | 50 |
| **Supplementary information:**<br>Note 1. Decreases with the logarithm of the frequency. | | | |

**Table 9**

### 2.1.9 Test Results

**Results for Configuration and Mode: AC Powered - 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.

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

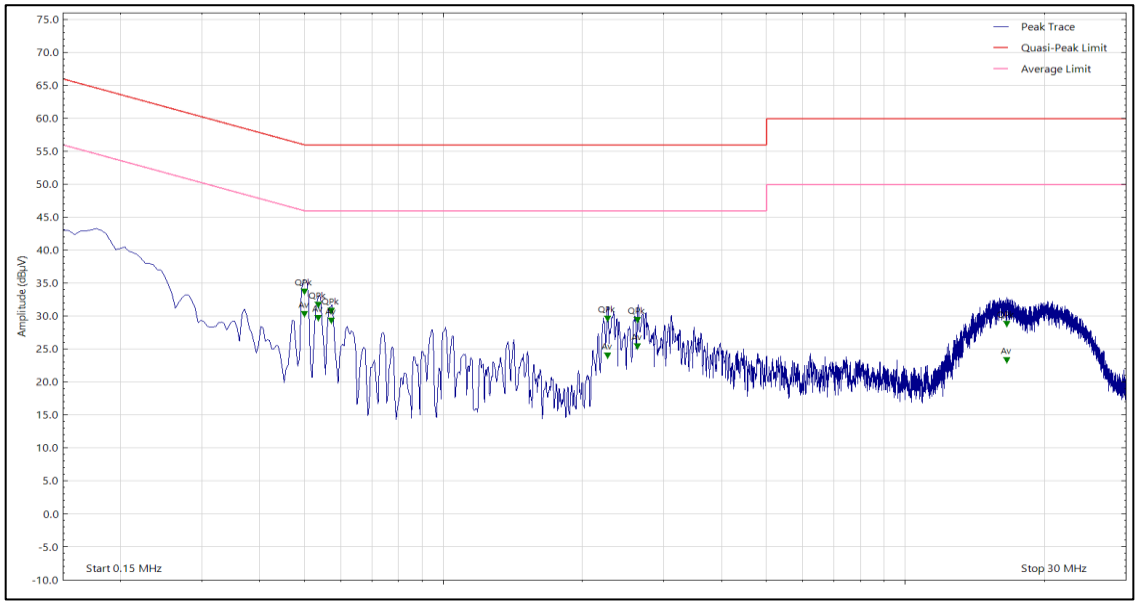


**Figure 3 - Graphical Results – AC Power Port - Live Line**

| Frequency (MHz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|---|---|---|---|---|
| 0.501 | 32.99 | 56.00 | -23.01 | Q-Peak |
| 0.501 | 29.61 | 46.00 | -16.39 | CISPR Avg |
| 0.537 | 30.97 | 56.00 | -25.03 | Q-Peak |
| 0.537 | 28.97 | 46.00 | -17.03 | CISPR Avg |
| 0.573 | 30.06 | 56.00 | -25.94 | Q-Peak |
| 0.573 | 28.63 | 46.00 | -17.37 | CISPR Avg |
| 2.270 | 28.88 | 56.00 | -27.12 | Q-Peak |
| 2.270 | 23.28 | 46.00 | -22.72 | CISPR Avg |
| 2.635 | 28.75 | 56.00 | -27.25 | Q-Peak |
| 2.635 | 24.69 | 46.00 | -21.31 | CISPR Avg |
| 16.585 | 28.08 | 60.00 | -31.92 | Q-Peak |
| 16.585 | 22.60 | 50.00 | -27.40 | CISPR Avg |

**Table 10**

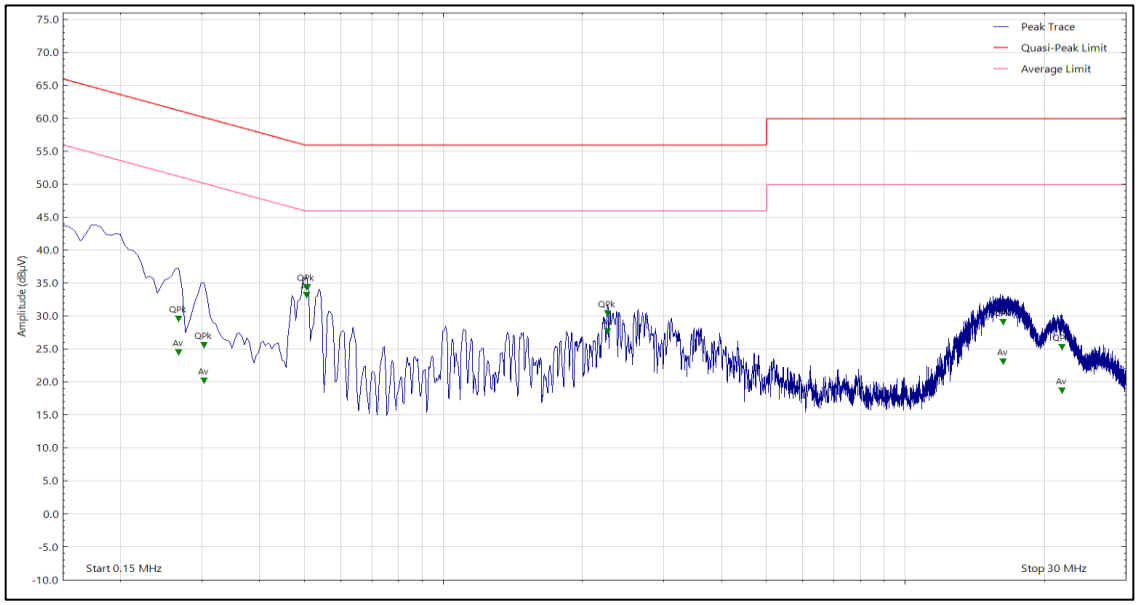


**Figure 4 - Graphical Results - AC Power Port - Neutral Line**

| Frequency (MHz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|---|---|---|---|---|
| 0.267 | 28.95 | 61.20 | -32.25 | Q-Peak |
| 0.267 | 23.86 | 51.20 | -27.34 | CISPR Avg |
| 0.304 | 24.91 | 60.10 | -35.19 | Q-Peak |
| 0.304 | 19.54 | 50.10 | -30.56 | CISPR Avg |
| 0.506 | 33.65 | 56.00 | -22.35 | Q-Peak |
| 0.506 | 32.50 | 46.00 | -13.50 | CISPR Avg |
| 2.265 | 29.70 | 56.00 | -26.30 | Q-Peak |
| 2.265 | 27.03 | 46.00 | -18.97 | CISPR Avg |
| 16.274 | 28.39 | 60.00 | -31.61 | Q-Peak |
| 16.274 | 22.41 | 50.00 | -27.59 | CISPR Avg |
| 21.837 | 24.64 | 60.00 | -35.36 | Q-Peak |
| 21.837 | 17.99 | 50.00 | -32.01 | CISPR Avg |

**Table 11**

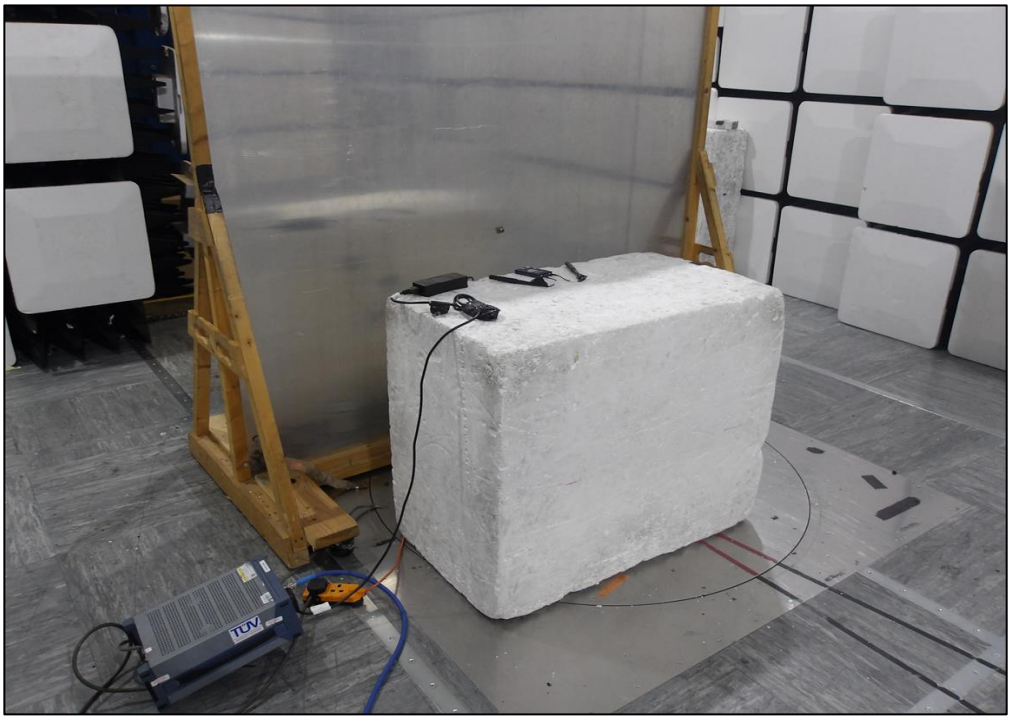

**Figure 5 - Test Setup**

### 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 |
|---|---|---|---|---|---|
| Emissions Software | TUV SUD | EmX V3.5.4 | 5125 | - | Software |
| Test Receiver | Rohde & Schwarz | ESW44 | 5802 | 12 | 25-Oct-2025 |
| Transient Limiter | Hewlett Packard | 11947A | 2378 | 12 | 28-Oct-2025 |
| Cable (N to N, 2 m) | Junkosha | MWX221-02000AMSAMS/B | 5725 | 6 | 12-Dec-2025 |
| 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 |

**Table 12**

## 2.2 Radiated Disturbance

### 2.2.1 Specification Reference

FCC 47 CFR Part 15B and ICES-003, Clause 15.109 and 3.2.2

### 2.2.2 Equipment Under Test and Modification State

BluSDR-30-198270-C, S/N: FR009550 - Modification State 0

### 2.2.3 Date of Test

27-September-2025 to 28-September-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:

Quasi-Peak level (dBµV/m) = Receiver level (dBµV) + Correction Factor (dB/m)
Margin (dB) = Quasi-Peak level (dBµV/m) - Limit (dBµV/m)

Above 1 GHz:

CISPR Average level (dBµV/m) = Receiver level (dBµV) + Correction Factor (dB/m)
Margin (dB) = CISPR Average level (dBµV/m) - Limit (dBµV/m)

Peak level (dBµV/m) = Receiver level (dBµV) + Correction Factor (dB/m)
Margin (dB) = Peak level (dBµV/m) - Limit (dBµV/m)

### 2.2.6 Example Test Setup Diagram

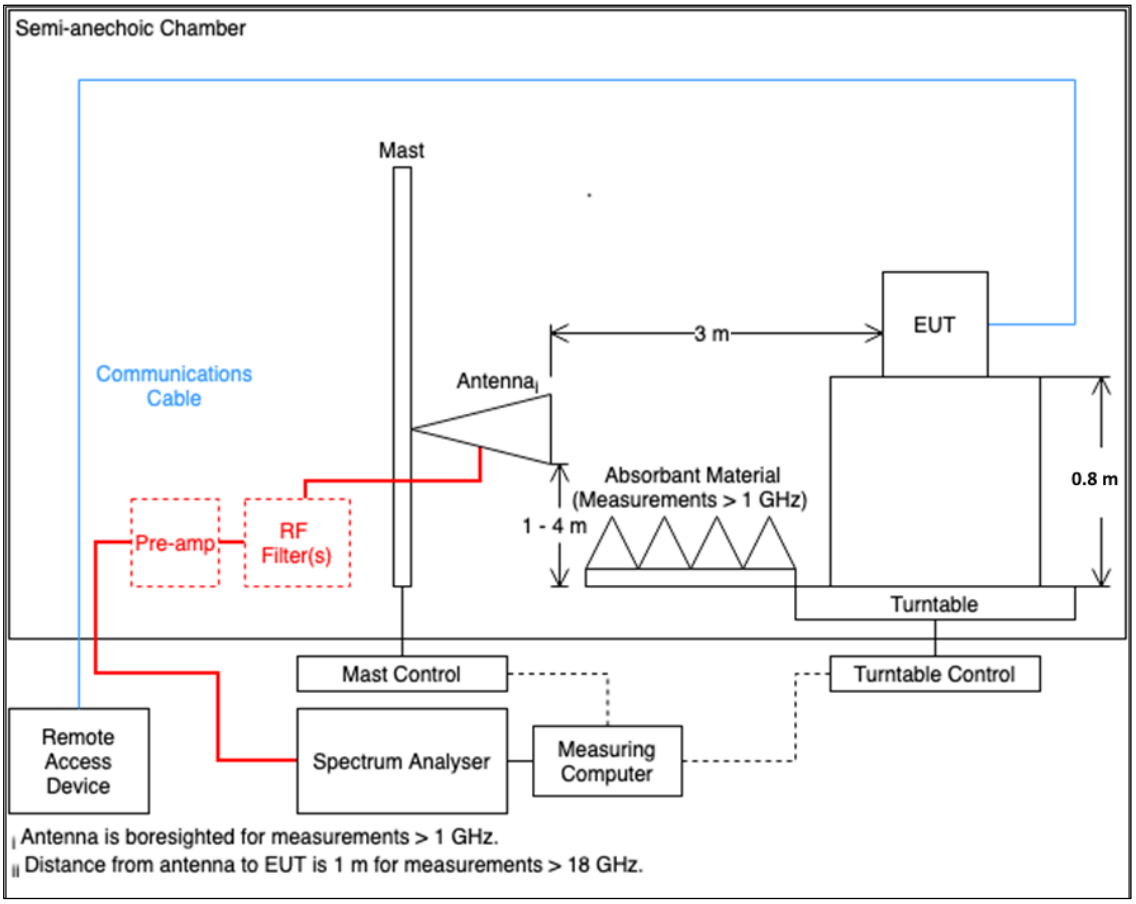


**Figure 6 - Radiated Disturbance Example Test Setup**

### 2.2.7 Environmental Conditions

| | |
|---|---|
| Ambient Temperature | 22.5 – 24.0 °C |
| Relative Humidity | 40.5 – 43.1 % |
| Atmospheric Pressure | 1010.2 – 1011.0 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:**<br>Note 1. A Quasi-peak detector is to be used for measurements below 1 GHz.<br>Note 2. A CISPR Average detector is to be used for measurements above 1 GHz.<br>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 - 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.

Highest frequency generated or used within the EUT: 2.7 GHz
Which necessitates an upper frequency test limit of: 13.5 GHz (Tested to 15 GHz)

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

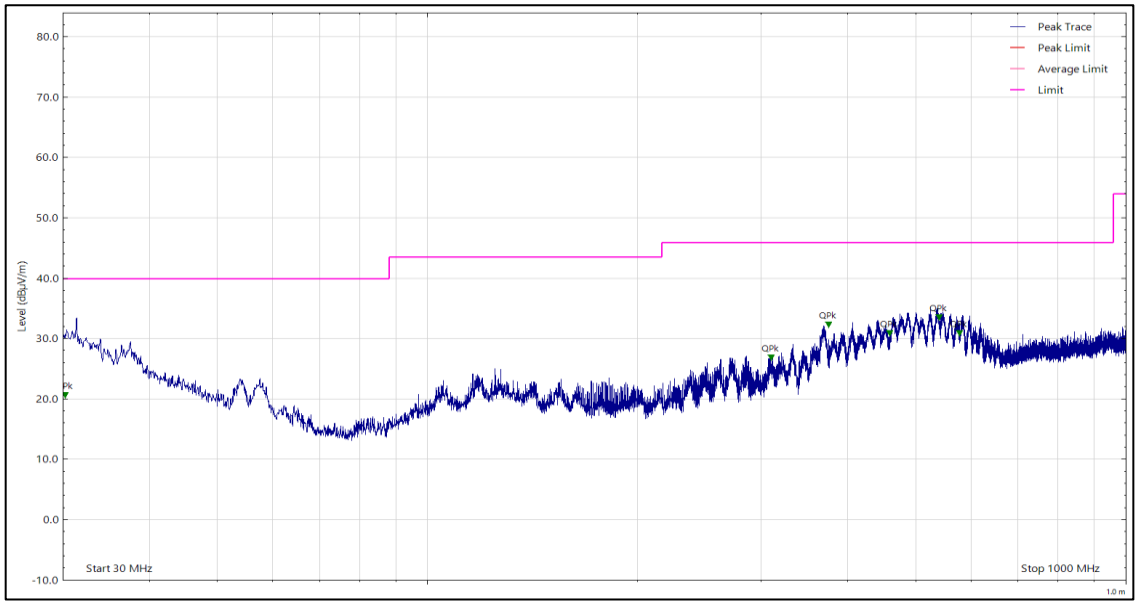


**Figure 7 - X Orientation - 30 MHz to 1 GHz, Quasi-Peak, Horizontal**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 30.220 | 19.86 | 40.00 | -20.14 | Q-Peak | 109 | 142 | Horizontal |
| 310.391 | 26.09 | 46.00 | -19.91 | Q-Peak | 170 | 100 | Horizontal |
| 374.997 | 31.58 | 46.00 | -14.42 | Q-Peak | 346 | 136 | Horizontal |
| 459.066 | 30.10 | 46.00 | -15.90 | Q-Peak | 1 | 113 | Horizontal |
| 541.171 | 32.69 | 46.00 | -13.31 | Q-Peak | 179 | 149 | Horizontal |
| 578.379 | 30.13 | 46.00 | -15.87 | Q-Peak | 165 | 105 | Horizontal |

**Table 14**

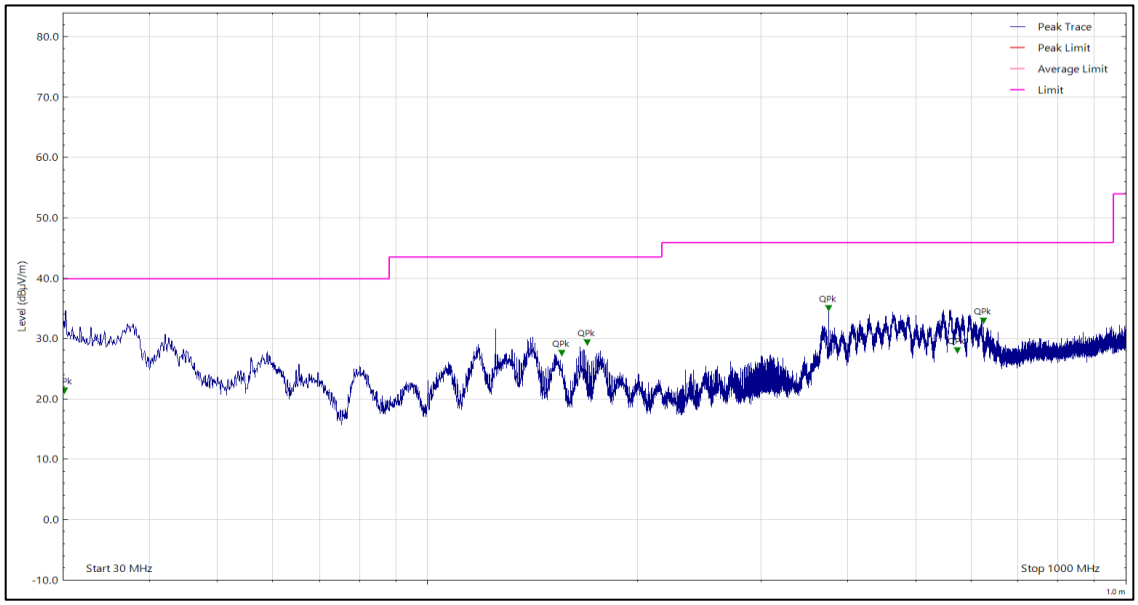


**Figure 8 - X Orientation - 30 MHz to 1 GHz, Quasi-Peak, Vertical**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 30.178 | 20.67 | 40.00 | -19.33 | Q-Peak | 251 | 105 | Vertical |
| 155.770 | 26.80 | 43.50 | -16.70 | Q-Peak | 220 | 100 | Vertical |
| 169.242 | 28.60 | 43.50 | -14.90 | Q-Peak | 24 | 102 | Vertical |
| 374.985 | 34.27 | 46.00 | -11.73 | Q-Peak | 174 | 127 | Vertical |
| 573.951 | 27.26 | 46.00 | -18.74 | Q-Peak | 185 | 108 | Vertical |
| 625.008 | 32.17 | 46.00 | -13.83 | Q-Peak | 16 | 103 | Vertical |

**Table 15**

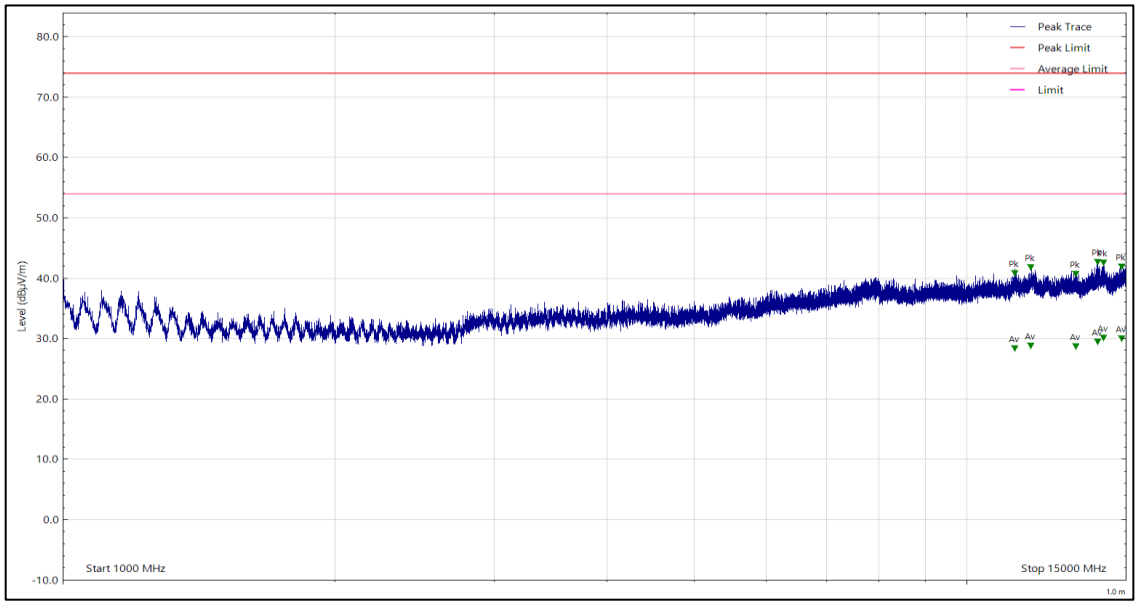


**Figure 9 - X Orientation - 1 GHz to 15 GHz, Peak & CISPR Average, Horizontal**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 11300.605 | 40.08 | 74.00 | -33.92 | Peak | 273 | 275 | Horizontal |
| 11300.605 | 27.60 | 54.00 | -26.40 | CISPR Avg | 273 | 275 | Horizontal |
| 11788.409 | 28.08 | 54.00 | -25.92 | CISPR Avg | 173 | 260 | Horizontal |
| 11788.409 | 41.09 | 74.00 | -32.91 | Peak | 173 | 260 | Horizontal |
| 13224.446 | 27.96 | 54.00 | -26.04 | CISPR Avg | 251 | 393 | Horizontal |
| 13224.446 | 39.94 | 74.00 | -34.06 | Peak | 251 | 393 | Horizontal |
| 13973.423 | 41.88 | 74.00 | -32.12 | Peak | 275 | 127 | Horizontal |
| 13973.423 | 28.75 | 54.00 | -25.25 | CISPR Avg | 275 | 127 | Horizontal |
| 14182.346 | 41.76 | 74.00 | -32.24 | Peak | 172 | 373 | Horizontal |
| 14182.346 | 29.38 | 54.00 | -24.62 | CISPR Avg | 172 | 373 | Horizontal |
| 14834.377 | 41.13 | 74.00 | -32.87 | Peak | 47 | 399 | Horizontal |
| 14834.377 | 29.29 | 54.00 | -24.71 | CISPR Avg | 47 | 399 | Horizontal |

**Table 16**

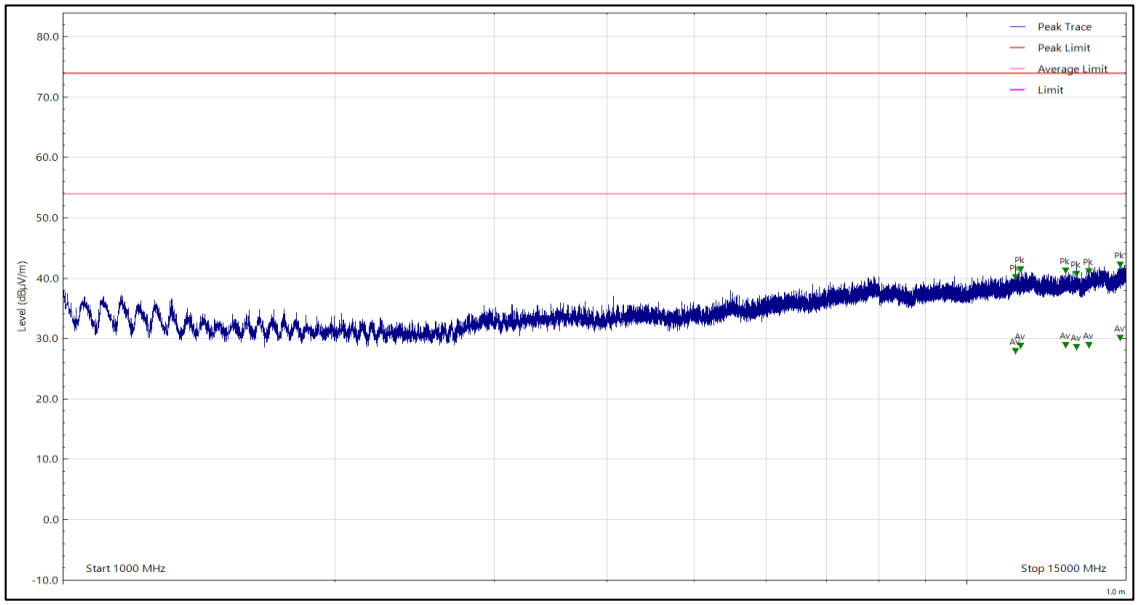


**Figure 10 - X Orientation - 1 GHz to 15 GHz, Peak & CISPR Average, Vertical**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 11325.333 | 39.35 | 74.00 | -34.65 | Peak | 85 | 100 | Vertical |
| 11325.333 | 27.12 | 54.00 | -26.88 | CISPR Avg | 85 | 100 | Vertical |
| 11484.293 | 40.72 | 74.00 | -33.28 | Peak | 6 | 110 | Vertical |
| 11484.293 | 28.02 | 54.00 | -25.98 | CISPR Avg | 6 | 110 | Vertical |
| 12862.487 | 28.14 | 54.00 | -25.86 | CISPR Avg | 288 | 103 | Vertical |
| 12862.487 | 40.45 | 74.00 | -33.55 | Peak | 288 | 103 | Vertical |
| 13240.486 | 39.91 | 74.00 | -34.09 | Peak | 179 | 283 | Vertical |
| 13240.486 | 27.80 | 54.00 | -26.20 | CISPR Avg | 179 | 283 | Vertical |
| 13660.709 | 28.11 | 54.00 | -25.89 | CISPR Avg | 187 | 357 | Vertical |
| 13660.709 | 40.34 | 74.00 | -33.66 | Peak | 187 | 357 | Vertical |
| 14790.478 | 41.44 | 74.00 | -32.56 | Peak | 10 | 299 | Vertical |
| 14790.478 | 29.32 | 54.00 | -24.68 | CISPR Avg | 10 | 299 | Vertical |

**Table 17**

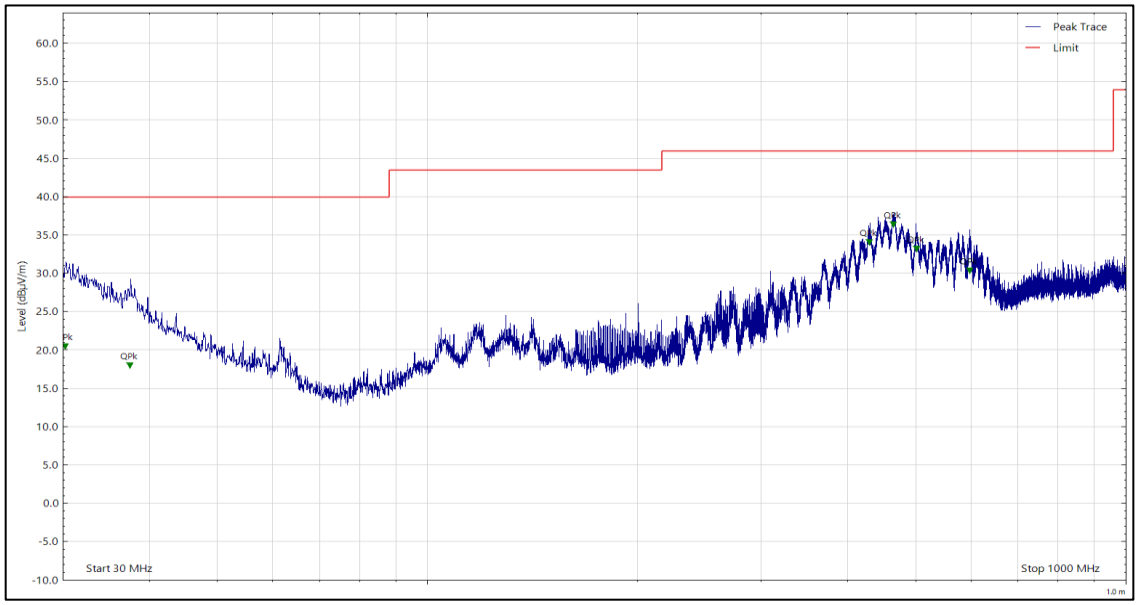


**Figure 11 - Y Orientation - 30 MHz to 1 GHz, Quasi-Peak, Horizontal**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 30.266 | 19.89 | 40.00 | -20.11 | Q-Peak | 330 | 107 | Horizontal |
| 37.479 | 17.40 | 40.00 | -22.60 | Q-Peak | 239 | 334 | Horizontal |
| 429.033 | 33.44 | 46.00 | -12.56 | Q-Peak | 338 | 105 | Horizontal |
| 464.523 | 35.76 | 46.00 | -10.24 | Q-Peak | 0 | 100 | Horizontal |
| 501.235 | 32.62 | 46.00 | -13.38 | Q-Peak | 10 | 101 | Horizontal |
| 597.691 | 29.73 | 46.00 | -16.27 | Q-Peak | 149 | 126 | Horizontal |

**Table 18**

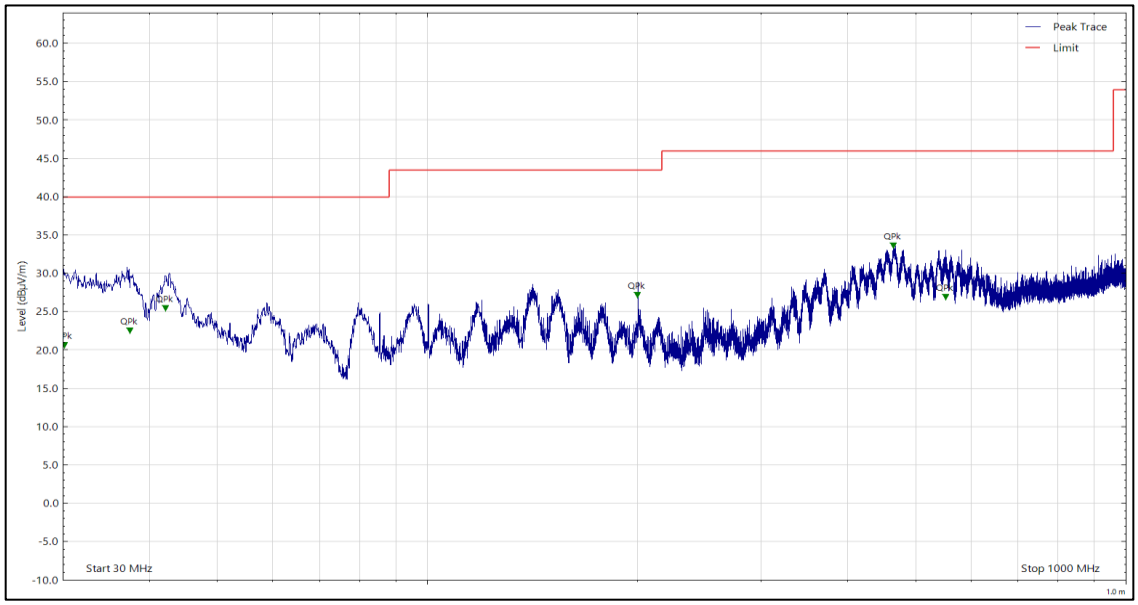


**Figure 12 - Y Orientation - 30 MHz to 1 GHz, Quasi-Peak, Vertical**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 30.214 | 20.01 | 40.00 | -19.99 | Q-Peak | 77 | 292 | Vertical |
| 37.461 | 21.91 | 40.00 | -18.09 | Q-Peak | 294 | 102 | Vertical |
| 42.080 | 24.84 | 40.00 | -15.16 | Q-Peak | 220 | 100 | Vertical |
| 200.002 | 26.61 | 43.50 | -16.89 | Q-Peak | 358 | 107 | Vertical |
| 464.408 | 33.01 | 46.00 | -12.99 | Q-Peak | 197 | 130 | Vertical |
| 551.904 | 26.27 | 46.00 | -19.73 | Q-Peak | 167 | 107 | Vertical |

**Table 19**

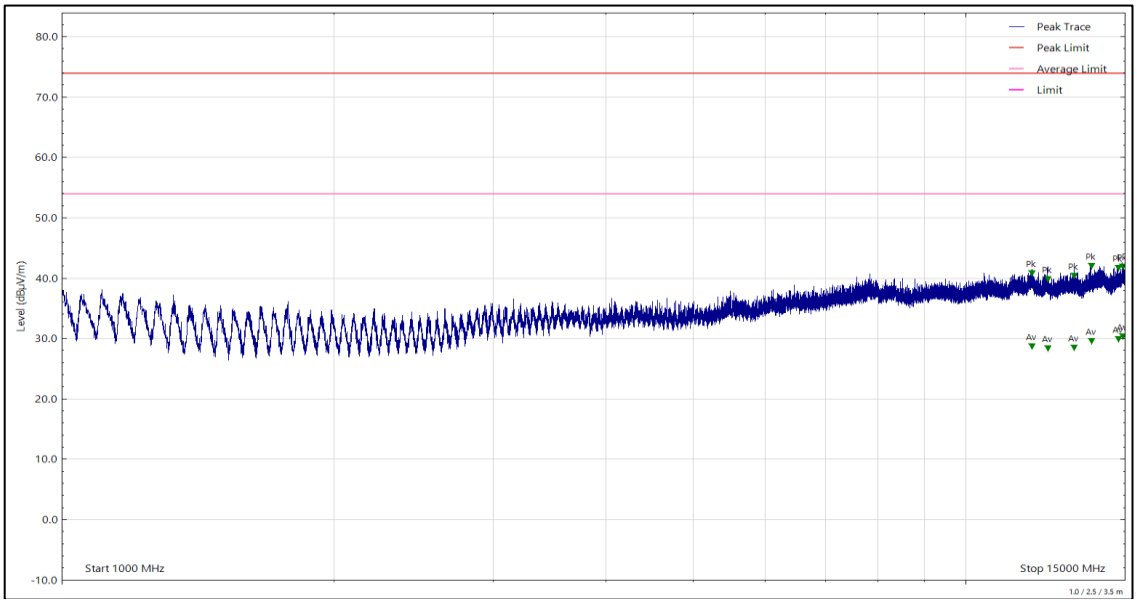


**Figure 13 - Y Orientation - 1 GHz to 15 GHz, Peak & CISPR Average, Horizontal**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11836.680 | 27.89 | 54.00 | -26.11 | CISPR Avg | 223 | 174 | Horizontal |
| 11836.680 | 40.02 | 74.00 | -33.98 | Peak | 223 | 174 | Horizontal |
| 12340.870 | 27.65 | 54.00 | -26.35 | CISPR Avg | 61 | 105 | Horizontal |
| 12340.870 | 39.04 | 74.00 | -34.96 | Peak | 61 | 105 | Horizontal |
| 13194.056 | 39.57 | 74.00 | -34.43 | Peak | 170 | 100 | Horizontal |
| 13194.056 | 27.77 | 54.00 | -26.23 | CISPR Avg | 170 | 100 | Horizontal |
| 13784.528 | 28.76 | 54.00 | -25.24 | CISPR Avg | 168 | 375 | Horizontal |
| 13784.528 | 41.30 | 74.00 | -32.70 | Peak | 168 | 375 | Horizontal |
| 14755.455 | 40.96 | 74.00 | -33.04 | Peak | 302 | 110 | Horizontal |
| 14755.455 | 29.13 | 54.00 | -24.87 | CISPR Avg | 302 | 110 | Horizontal |
| 14920.385 | 41.16 | 74.00 | -32.84 | Peak | 29 | 107 | Horizontal |
| 14920.385 | 29.62 | 54.00 | -24.38 | CISPR Avg | 29 | 107 | Horizontal |

**Table 20**

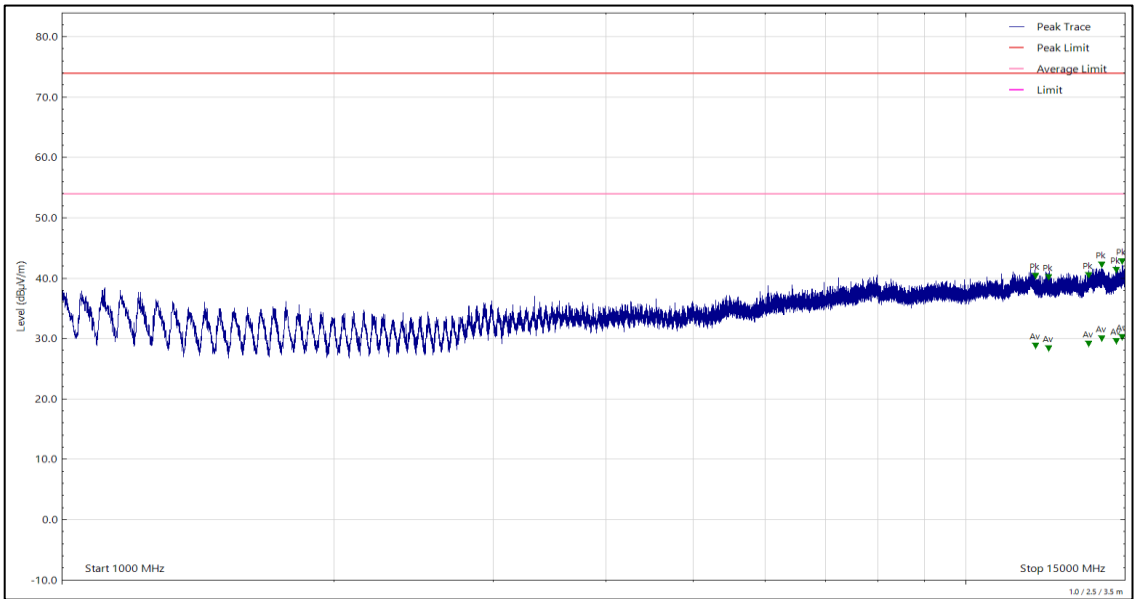


**Figure 14 - Y Orientation - 1 GHz to 15 GHz, Peak & CISPR Average, Vertical**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11953.948 | 39.57 | 74.00 | -34.43 | Peak | 110 | 103 | Vertical |
| 11953.948 | 28.02 | 54.00 | -25.98 | CISPR Avg | 110 | 103 | Vertical |
| 12357.180 | 39.39 | 74.00 | -34.61 | Peak | 168 | 369 | Vertical |
| 12357.180 | 27.57 | 54.00 | -26.43 | CISPR Avg | 168 | 369 | Vertical |
| 13680.108 | 28.37 | 54.00 | -25.63 | CISPR Avg | 125 | 102 | Vertical |
| 13680.108 | 39.72 | 74.00 | -34.28 | Peak | 125 | 102 | Vertical |
| 14137.944 | 41.51 | 74.00 | -32.49 | Peak | 346 | 359 | Vertical |
| 14137.944 | 29.29 | 54.00 | -24.71 | CISPR Avg | 346 | 359 | Vertical |
| 14687.515 | 40.58 | 74.00 | -33.42 | Peak | 217 | 101 | Vertical |
| 14687.515 | 28.83 | 54.00 | -25.17 | CISPR Avg | 217 | 101 | Vertical |
| 14911.748 | 42.04 | 74.00 | -31.96 | Peak | 58 | 109 | Vertical |
| 14911.748 | 29.49 | 54.00 | -24.51 | CISPR Avg | 58 | 109 | Vertical |

**Table 21**

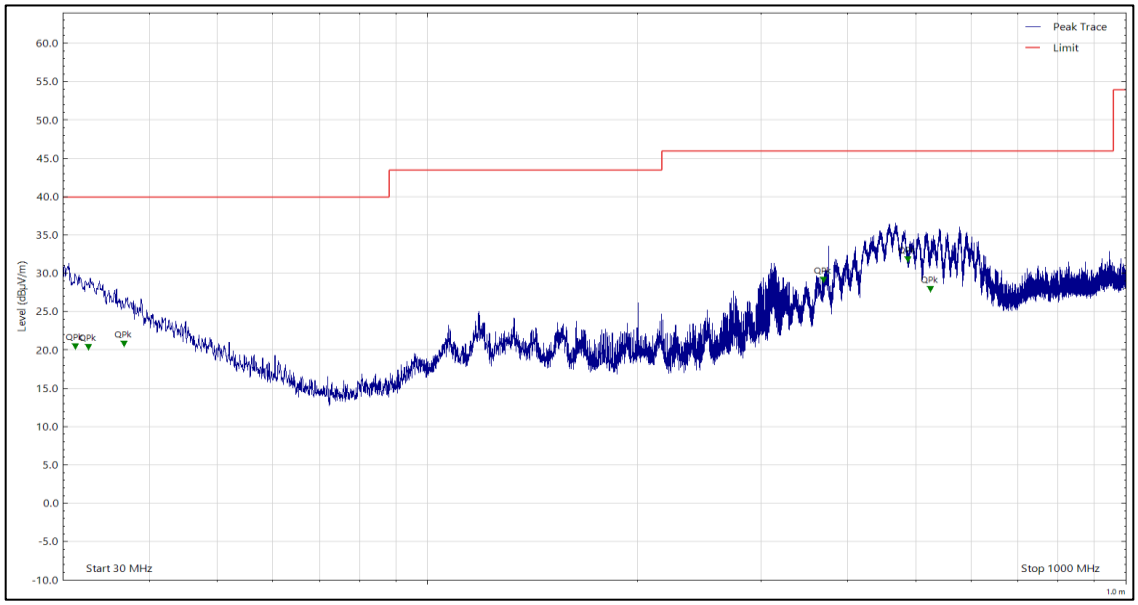


**Figure 15 - Z Orientation - 30 MHz to 1 GHz, Quasi-Peak, Horizontal**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 31.316 | 19.87 | 40.00 | -20.13 | Q-Peak | 356 | 383 | Horizontal |
| 32.681 | 19.76 | 40.00 | -20.24 | Q-Peak | 318 | 103 | Horizontal |
| 36.743 | 20.21 | 40.00 | -19.79 | Q-Peak | 345 | 110 | Horizontal |
| 368.888 | 28.52 | 46.00 | -17.48 | Q-Peak | 165 | 115 | Horizontal |
| 487.793 | 31.19 | 46.00 | -14.81 | Q-Peak | 195 | 100 | Horizontal |
| 524.936 | 27.36 | 46.00 | -18.64 | Q-Peak | 10 | 107 | Horizontal |

**Table 22**

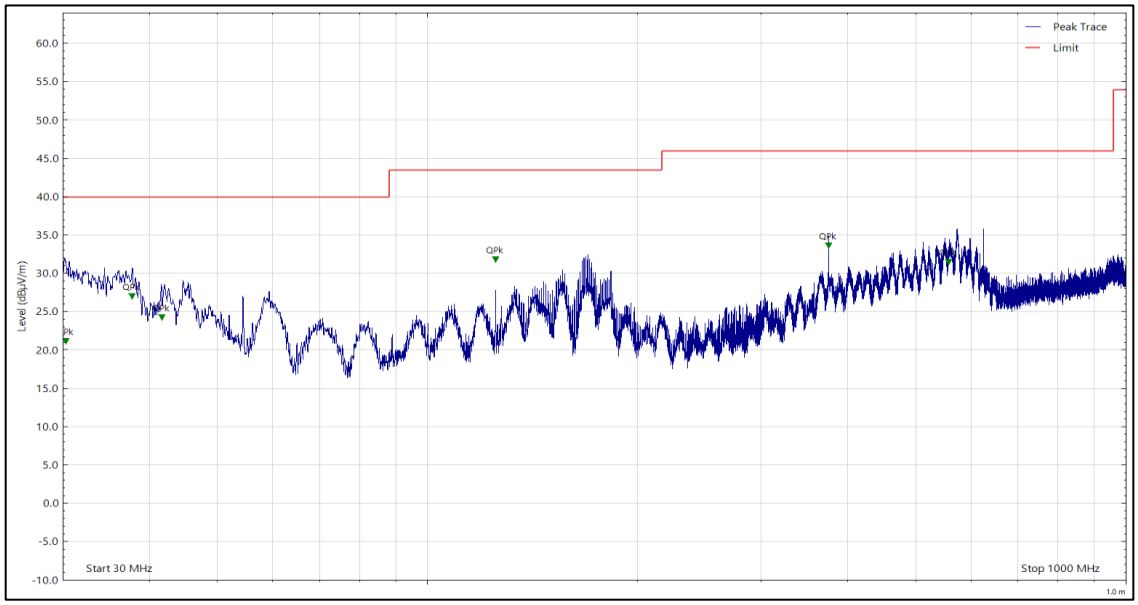


**Figure 16 - Z Orientation - 30 MHz to 1 GHz, Quasi-Peak, Vertical**

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|---|---|---|---|---|---|---|---|
| 30.309 | 20.57 | 40.00 | -19.43 | Q-Peak | 285 | 326 | Vertical |
| 37.705 | 26.44 | 40.00 | -13.56 | Q-Peak | 226 | 100 | Vertical |
| 41.632 | 23.65 | 40.00 | -16.35 | Q-Peak | 314 | 107 | Vertical |
| 124.997 | 31.21 | 43.50 | -12.29 | Q-Peak | 100 | 100 | Vertical |
| 375.008 | 33.01 | 46.00 | -12.99 | Q-Peak | 238 | 125 | Vertical |
| 557.943 | 30.83 | 46.00 | -15.17 | Q-Peak | 210 | 123 | Vertical |

**Table 23**

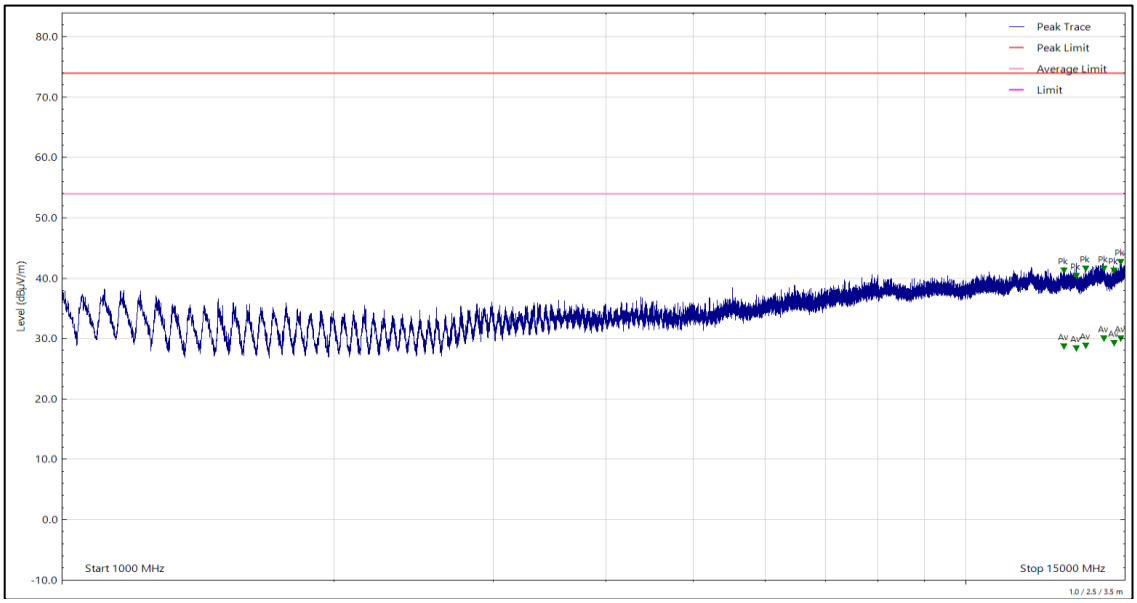


**Figure 17 - Z Orientation - 1 GHz to 15 GHz, Peak & CISPR Average, Horizontal**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12857.556 | 27.99 | 54.00 | -26.01 | CISPR Avg | 353 | 110 | Horizontal |
| 12857.556 | 40.48 | 74.00 | -33.52 | Peak | 353 | 110 | Horizontal |
| 13268.678 | 27.64 | 54.00 | -26.36 | CISPR Avg | 350 | 385 | Horizontal |
| 13268.678 | 39.67 | 74.00 | -34.33 | Peak | 350 | 385 | Horizontal |
| 13587.668 | 40.83 | 74.00 | -33.17 | Peak | 168 | 107 | Horizontal |
| 13587.668 | 28.07 | 54.00 | -25.93 | CISPR Avg | 168 | 107 | Horizontal |
| 14222.570 | 29.25 | 54.00 | -24.75 | CISPR Avg | 233 | 353 | Horizontal |
| 14222.570 | 40.78 | 74.00 | -33.22 | Peak | 233 | 353 | Horizontal |
| 14594.545 | 28.45 | 54.00 | -25.55 | CISPR Avg | 234 | 250 | Horizontal |
| 14594.545 | 40.54 | 74.00 | -33.46 | Peak | 234 | 250 | Horizontal |
| 14857.839 | 29.29 | 54.00 | -24.71 | CISPR Avg | 187 | 268 | Horizontal |
| 14857.839 | 41.92 | 74.00 | -32.08 | Peak | 187 | 268 | Horizontal |

**Table 24**

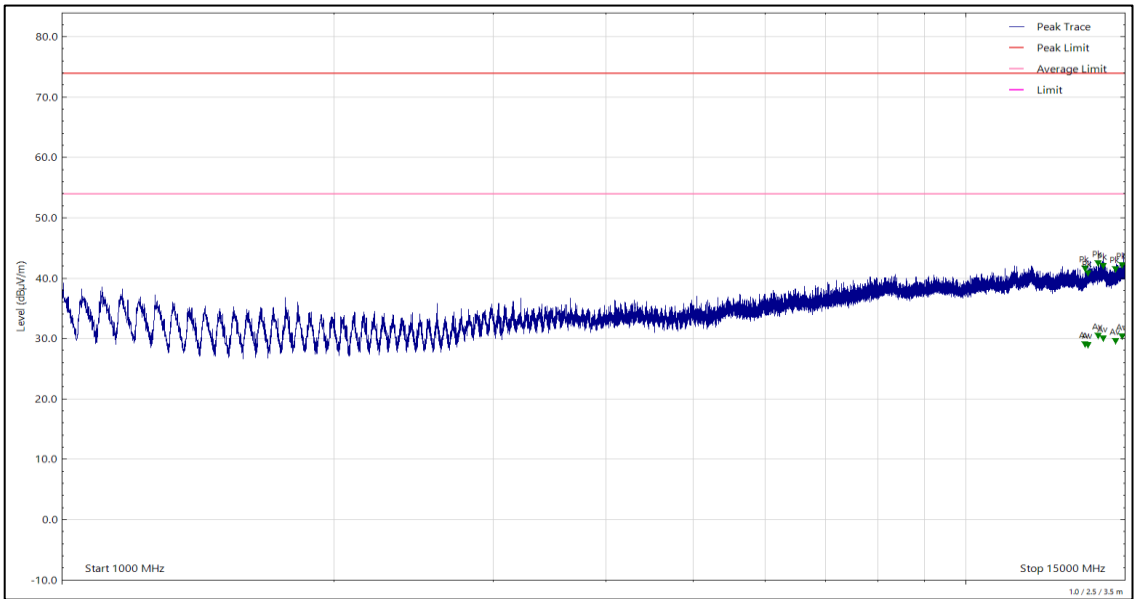


**Figure 18 - Z Orientation - 1 GHz to 15 GHz, Peak & CISPR Average, Vertical**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13565.509 | 40.87 | 74.00 | -33.13 | Peak | 59 | 348 | Vertical |
| 13565.509 | 28.22 | 54.00 | -25.78 | CISPR Avg | 59 | 348 | Vertical |
| 13655.641 | 40.09 | 74.00 | -33.91 | Peak | 160 | 358 | Vertical |
| 13655.641 | 28.20 | 54.00 | -25.80 | CISPR Avg | 160 | 358 | Vertical |
| 14012.659 | 29.68 | 54.00 | -24.32 | CISPR Avg | 238 | 336 | Vertical |
| 14012.659 | 41.71 | 74.00 | -32.29 | Peak | 238 | 336 | Vertical |
| 14191.554 | 29.25 | 54.00 | -24.75 | CISPR Avg | 105 | 347 | Vertical |
| 14191.554 | 41.28 | 74.00 | -32.72 | Peak | 105 | 347 | Vertical |
| 14664.925 | 28.76 | 54.00 | -25.24 | CISPR Avg | 71 | 400 | Vertical |
| 14664.925 | 40.73 | 74.00 | -33.27 | Peak | 71 | 400 | Vertical |
| 14911.916 | 29.56 | 54.00 | -24.44 | CISPR Avg | 71 | 241 | Vertical |
| 14911.916 | 41.40 | 74.00 | -32.60 | Peak | 71 | 241 | Vertical |

**Table 25**

**Figure 19 - Test Setup - 30 MHz to 1 GHz**

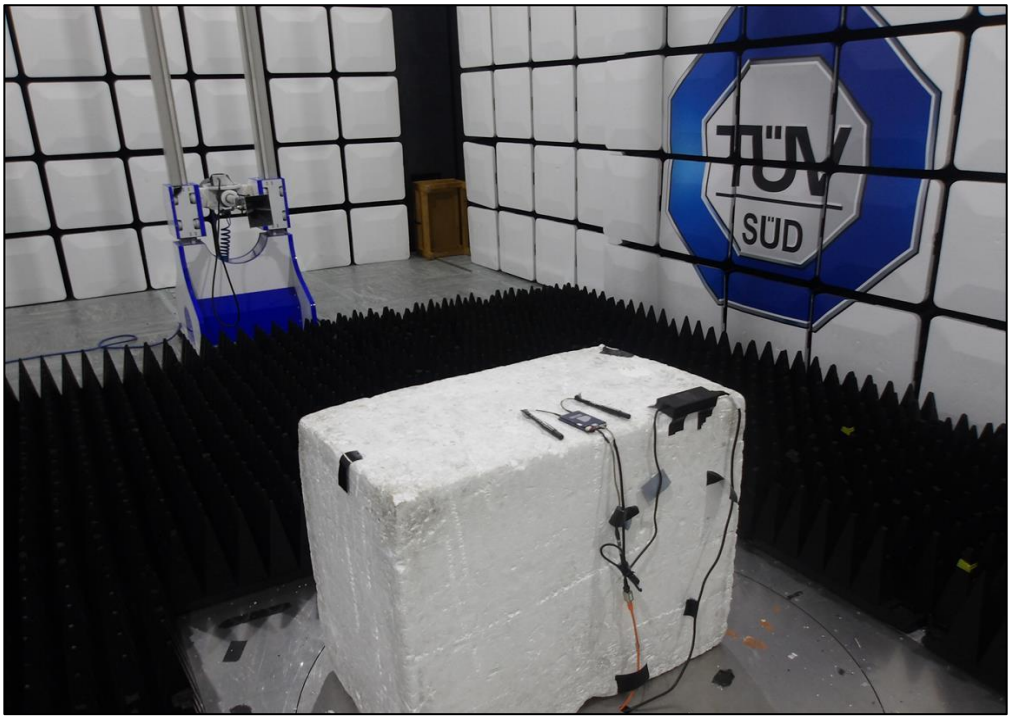

**Figure 20 - Test Setup - 1 GHz to 8 GHz**

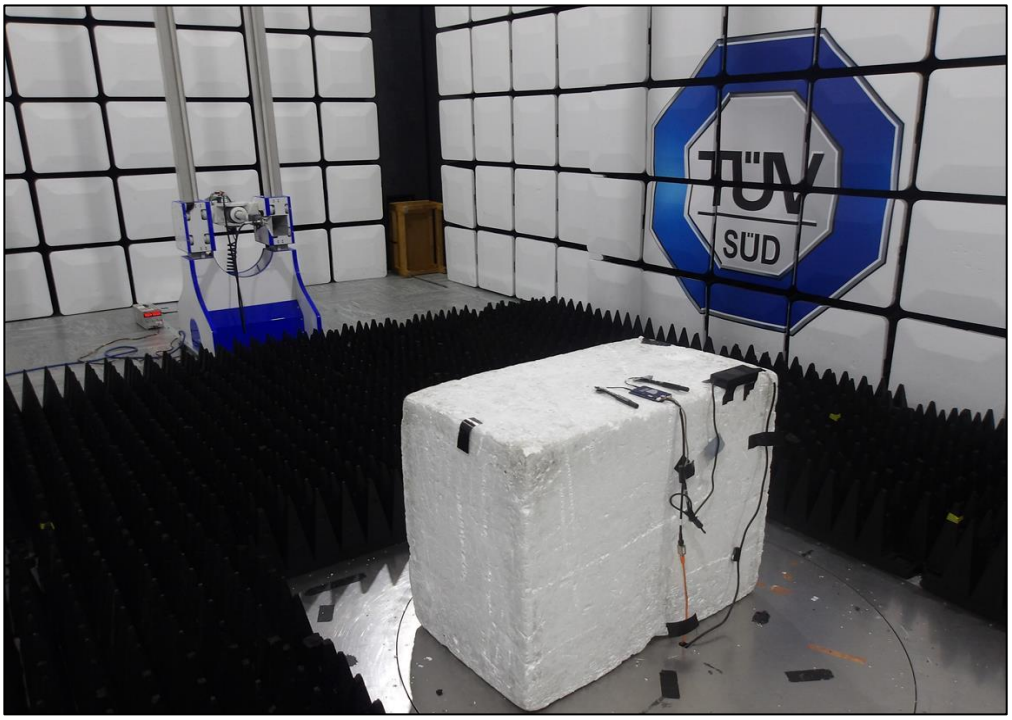


**Figure 21 - Test Setup - 8 GHz to 15 GHz**

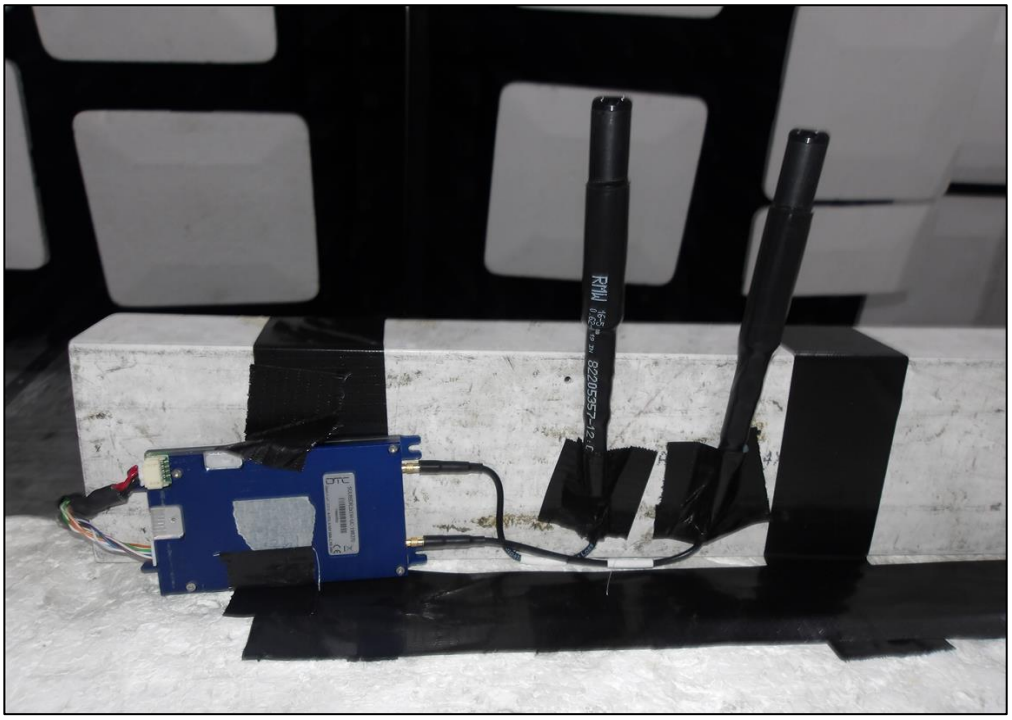

**Figure 22 - Test Setup - X Axis**

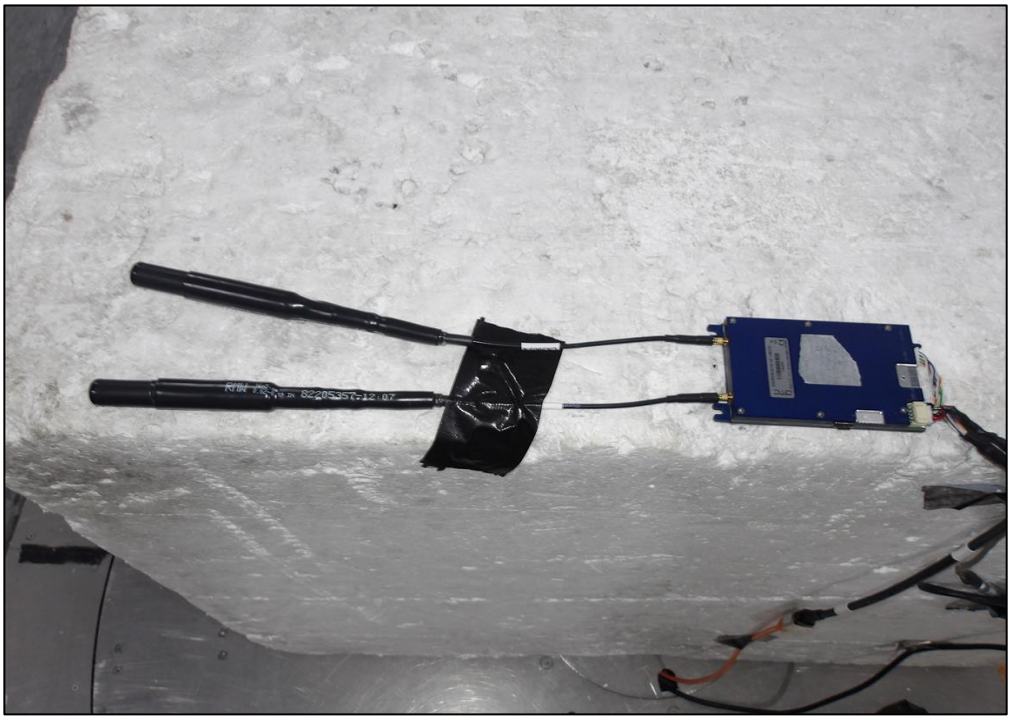

**Figure 23 - Test Setup - Y Axis**

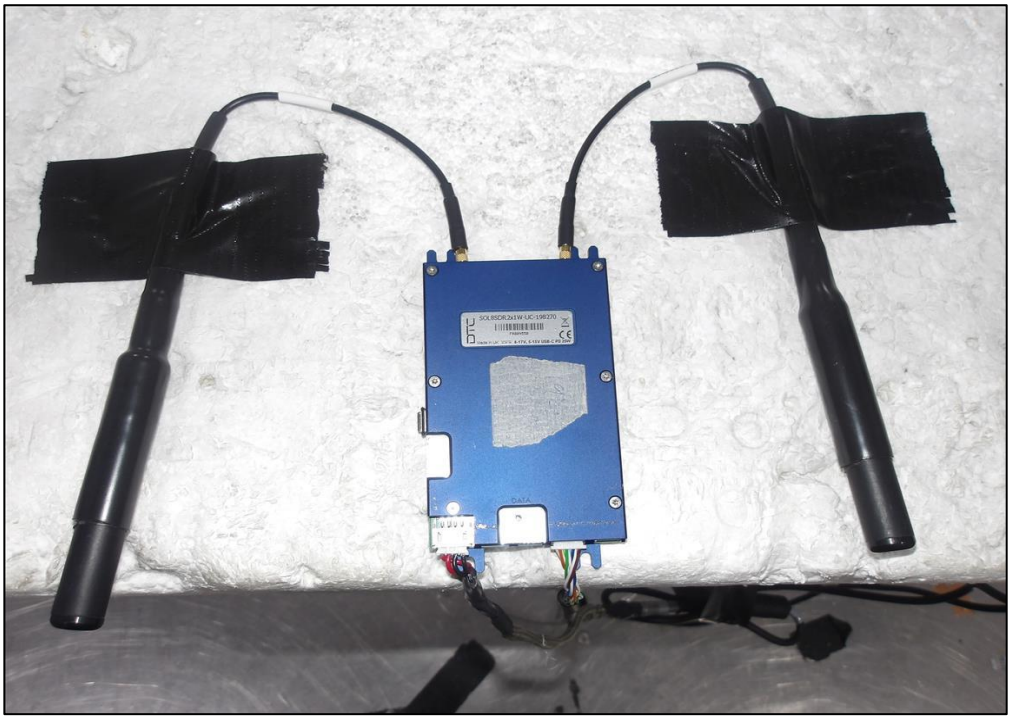

**Figure 24 - Test Setup - Z Axis**

### 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 V3.5.4 | 5125 | - | Software |
| Test Receiver | Rohde & Schwarz | ESW44 | 5802 | 12 | 25-Oct-2025 |
| Turntable & Mast Controller | Maturo Gmbh | NCD/498/2799.01 | 5612 | - | TU |
| Tilt Antenna Mast | Maturo Gmbh | TAM 4.0-P | 5613 | - | TU |
| Cable (2.92 mm(f)-N(m), 2 m) | Junkosha | MWX241-02000KFSNMS/B | 6332 | 12 | 03-Oct-2025 |
| 2m Coaxial Cable Assy | Junkosha | MWX221-02000AMSAMS/A | 6357 | 12 | 13-May-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 |
| 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 | 4848 | 12 | 05-Jul-2026 |
| Antenna (DRG, 7.5 GHz to 18 GHz) | Schwarzbeck | HWRD750 | 5348 | 12 | 13-Oct-2025 |

**Table 26**

TU - Traceability Unscheduled

# 3 Test Equipment Information

## 3.1 General Test Equipment Used

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Expires |
|---|---|---|---|---|---|
| Thermo-Hygro-Barometer | PCE Instruments | PCE-THB-40 | 5471 | 12 | 14-May-2026 |
| Milliohm Meter | VICI | 2682132 | 7012 | 12 | 21-May-2026 |

**Table 27**

# 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 Disturbance at Mains Terminals | 150 kHz to 30 MHz, LISN ±3.3 dB |
| Radiated Disturbance | 30 MHz to 1 GHz, Bilog Antenna ±5.17 dB<br>1 GHz to 6 GHz, Horn Antenna ±5.05 dB<br>6 GHz to 18 GHz, Horn Antenna ±4.94 dB |

**Table 28**

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.