

FCC and ISED Test Report

Manufacturer: TTP PLC

Model: Velaris 200

In accordance with FCC 47 CFR Part 25, FCC 47 CFR Part 2 and ISED RSS-170 and ISED RSS-GEN, Technology: (Broadband Global Area Network)



Prepared for: TTP PLC
TTP Campus, Cambridge Road
Melbourn, SG8 6HQ

FCC ID: 2BO4Q-V200 IC: 33922-V200

COMMERCIAL-IN-CONFIDENCE
Document 75962190-20 Issue 02

| SIGNATURE | | | |
|----------------|-----------------|----------------------|--------------|
| | | | |
| NAME | JOB TITLE | RESPONSIBLE FOR | ISSUE DATE |
| Steve Marshall | Senior Engineer | Authorised Signatory | 24 June 2025 |

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 25, FCC 47 CFR Part 2 and ISED RSS-170 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 | Ahmad Javid | 24 June 2025 | |

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 25: 2024, FCC 47 CFR Part 2: 2023, ISED RSS-170 Issue 4 (09-2022) and ISED RSS-GEN: Issue 5 (04-2018) + A2 (02-2021) for the tests detailed in section 1.3.

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ACCREDITATION
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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 | 16 May 2025 |
| 2 | Additional information provided by TTP | 24 June 2025 |

Table 1

1.2 Introduction

| | |
|-------------------------------|--|
| Applicant | TTP PLC |
| Manufacturer | Gotonomi |
| Model Number(s) | Velaris 200 |
| Serial Number(s) | SN681031 |
| Hardware Version(s) | 1 |
| Software Version(s) | 1.5.8931 |
| Number of Samples Tested | 1 |
| Test Specification/Issue/Date | FCC 47 CFR Part 25: 2022 FCC 47 CFR Part 2: 2024 ISED RSS-170: Issue 4 (09-2022) ISED RSS-GEN: Issue 5 (04-2018) + A2 (02-2021) |
| Order Number | PURORDTTP23503/PUROR |
| Date | 06-August-2024 |
| Date of Receipt of EUT | 13-September-2024 |
| Start of Test | 27-September-2024 |
| Finish of Test | 28-September-2024 |
| Name of Engineer(s) | Ahmad Javid |
| Related Document(s) | ANSI C63.26 (2015) |



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 25, FCC 47 CFR Part 2 and ISED RSS-170 and ISED RSS-GEN is shown below.

| Section | Specification Clause | | | | Test Description | Result | Comments/Base Standard |
|--|----------------------|--------|---------|---------|-----------------------------|--------|------------------------|
| | Part 25 | Part 2 | RSS-170 | RSS-GEN | | | |
| Configuration and Mode: Velaris Module - 1.6 GHz communications link | | | | | | | |
| 2.1 | 25.202 (f) | 2.1053 | 5.8 | 6.13 | Radiated Spurious Emissions | Pass | ANSI C63.26 (2015) |

Table 2



1.4 Application Form

Equipment Description

| | | | |
|--|---------------------------------|--|---|
| Technical Description: <i>(Please provide a brief description of the intended use of the equipment including the technologies the product supports)</i> | | Mobile earth station satellite communication data modem L-Band, up to 200kbps | |
| Manufacturer: | | Gotonomi | |
| Model: | | Velaris 200 | |
| Part Number: | | V200 | |
| Hardware Version: | | 1 | |
| Software Version: | | 1.5.8931 | |
| FCC ID of the product under test – see guidance here | | 2BO4Q-V200 | |
| IC ID of the product under test – see guidance here | | 33922-V200 | |
| Device Category | Mobile <input type="checkbox"/> | Portable <input checked="" type="checkbox"/> | Fixed <input checked="" type="checkbox"/> |
| Equipment is fitted with an Audio Low Pass Filter | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

Table 3

Intentional Radiators

| | |
|---|-----------------|
| Technology | BGAN |
| Frequency Range (MHz to MHz) | 1626.5 - 1660.5 |
| Conducted Declared Output Power (dBm) | 37.5 |
| Antenna Gain (dBi) | 2.5 |
| Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz) | 200kHz |
| Modulation Scheme(s) (e.g. GFSK, QPSK etc) | QPSK/QAM |
| ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices) | 200KX2D |
| Bottom Frequency (MHz) | 1626.5 |
| Middle Frequency (MHz) | 1643.5 |
| Top Frequency (MHz) | 1660.5 |

Table 4



Un-intentional Radiators

| | |
|--|------------|
| Highest frequency generated or used in the device or on which the device operates or tunes | 1660.5 MHz |
| Lowest frequency generated or used in the device or on which the device operates or tunes | 26MHz |
| Class A Digital Device (Use in commercial, industrial or business environment) <input checked="" type="checkbox"/> | |
| Class B Digital Device (Use in residential environment only) <input type="checkbox"/> | |

Table 5

AC Power Source

| | | |
|--|---|----|
| AC supply frequency: | - | Hz |
| Voltage | - | V |
| Max current: | - | A |
| Single Phase <input type="checkbox"/> Three Phase <input type="checkbox"/> | | |

Table 6

DC Power Source

| | | |
|------------------------|----|---|
| Nominal voltage: | 24 | V |
| Extreme upper voltage: | 30 | V |
| Extreme lower voltage: | 18 | V |
| Max current: | 3 | A |

Table 7

Battery Power Source

| | | |
|--|----------------|---|
| Voltage: | - | V |
| End-point voltage: | - | V (Point at which the battery will terminate) |
| Alkaline <input type="checkbox"/> Leclanche <input type="checkbox"/> Lithium <input type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Lead Acid* <input type="checkbox"/> *(Vehicle regulated) | | |
| Other <input type="checkbox"/> | Please detail: | |

Table 8

Charging

| | |
|---|--|
| Can the EUT transmit whilst being charged | Yes <input type="checkbox"/> No <input type="checkbox"/> |
|---|--|

Table 9

Temperature

| | | |
|----------------------|---------|----|
| Minimum temperature: | Ambient | °C |
| Maximum temperature: | Ambient | °C |

Table 10



Cable Loss

| | | |
|--|---|----|
| Adapter Cable Loss (Conducted sample) | 0 | dB |
|--|---|----|

Table 11

Antenna Characteristics

| | | | | | |
|--|-------|--------|-----------------|-----|-----|
| Antenna connector <input type="checkbox"/> | | | State impedance | | Ohm |
| Temporary antenna connector <input type="checkbox"/> | | | State impedance | | Ohm |
| Integral antenna <input checked="" type="checkbox"/> | Type: | Custom | Gain | 2.5 | dBi |
| External antenna <input type="checkbox"/> | Type: | | Gain | | dBi |

For external antenna only:
 Standard Antenna Jack ☐ If yes, describe how user is prohibited from changing antenna (if not professional installed): By instruction
 Equipment is only ever professionally installed ☐
 Non-standard Antenna Jack ☐
 All part 15 applications will need to show how the antenna gain was derived either from a manufacturer data sheet or a measurement. Where the gain of the antenna is inherently accounted for as a result of the measurement, such as field strength measurements on a part 15.249 or 15.231 device, so the gain does not necessarily need to be verified. However, enough information regarding the construction of the antenna shall be provided. Such information maybe photographs, length of wire antenna etc.

Table 12

Ancillaries (if applicable)

| | | | |
|---------------|--|--------------------|--|
| Manufacturer: | | Part Number: | |
| Model: | | Country of Origin: | |

Table 13

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

Name: Roderick van den Bergh
 Position held: Operations Manager
 Date: 11/9/24



1.5 Product Information

1.5.1 Technical Description

Mobile earth station satellite communication data modem L-Band, up to 200kbps.

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:Velaris 200, Serial Number: SN681031 | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable |

Table 14

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: Velaris 200 with Antenna - 1.6 GHz communications link | | |
| Radiated Spurious Emissions | Ahmad Javid | UKAS |

Table 15

Office Address:

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



2 Test Details

2.1 Radiated Spurious Emissions

2.1.1 Specification Reference

FCC 47 CFR Part 25: Clause 25.202(f)
FCC 47 CFR Part 2: Clause 2.1053
ISED RSS-170: Clause 5.8
ISED RSS-GEN, Clause 6.13

2.1.2 Equipment Under Test and Modification State

Velaris 200, S/N: SN681031 - Modification State 0

2.1.3 Date of Test

27-September-2024 to 28-September-2024

2.1.4 Test Method

A preliminary profile of Radiated Spurious Emissions was obtained up to the 10th harmonic by operating the EUT on a remotely controlled turntable within a semi-anechoic chamber. Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

Testing was performed in accordance with ANSI C63.26, Clause 5.5.

Prescans and final measurements were performed using the direct field strength method.

Field strength measurements were performed and then converted to Equivalent Power Measurements in accordance with ANSI C63.26, Clause 5.2.7 equation c)

Example calculation:

$E \text{ (dBuV/m)} + 20\log(d) - 104.8 = \text{EIRP (dBm)}$ where (d) is the measurement distance.

$82.2 \text{ (dBuV/m)} + 20\log(3) - 104.8 = \text{EIRP (dBm)}$

$-13.0 = \text{EIRP (dBm)}$

2.1.5 Example Test Setup Diagram

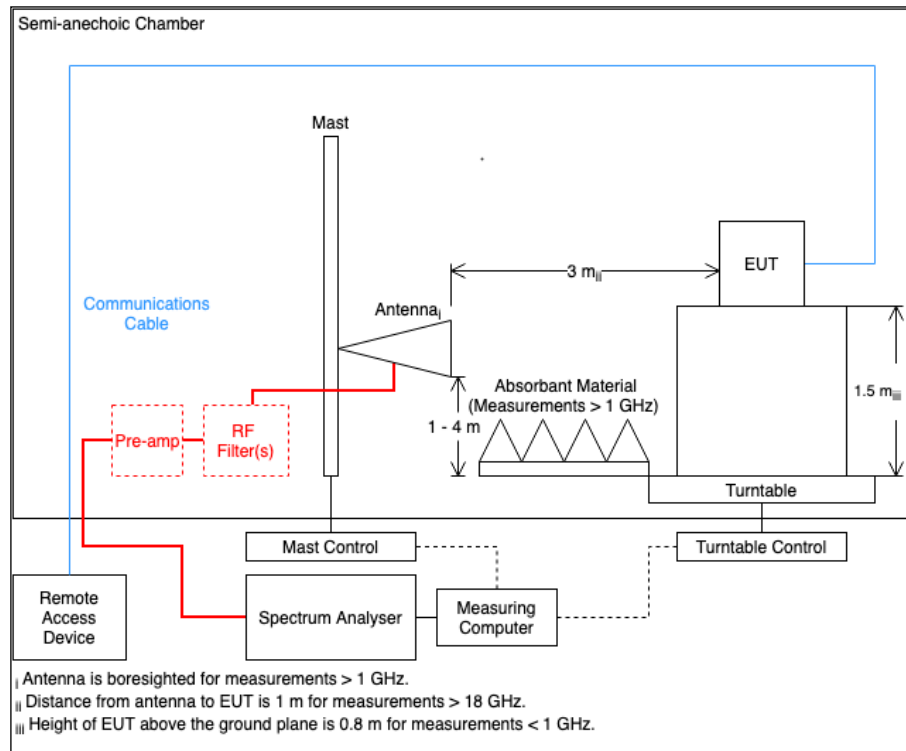


Figure 1

2.1.6 Environmental Conditions

| | |
|---------------------|----------------|
| Ambient Temperature | 20.6 - 21.5 °C |
| Relative Humidity | 46.7 - 50.6 % |



2.1.7 Test Results

Velaris 200 with Antenna - 1.6 GHz communications link

| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 16 - Bottom Channel Orientation X, 1626.712 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

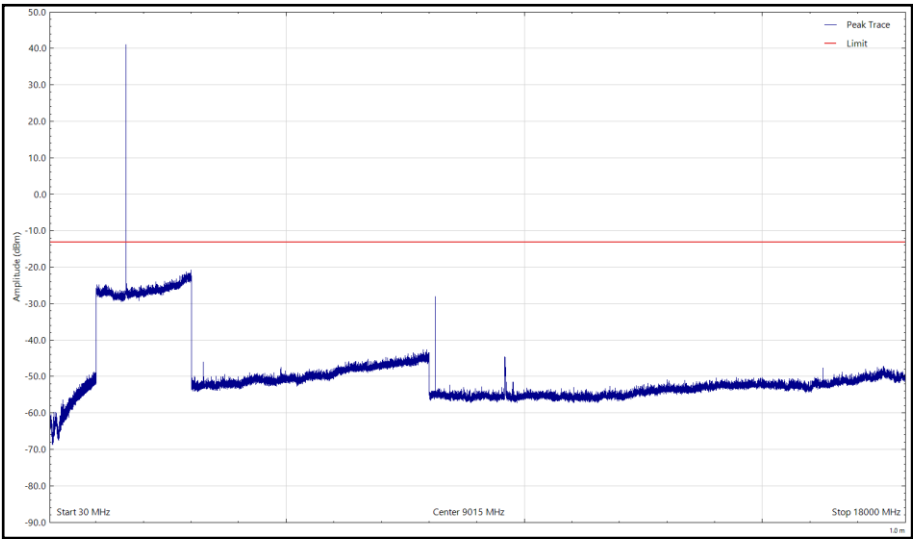


Figure 2 - Bottom Channel Orientation X, 1626.712 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

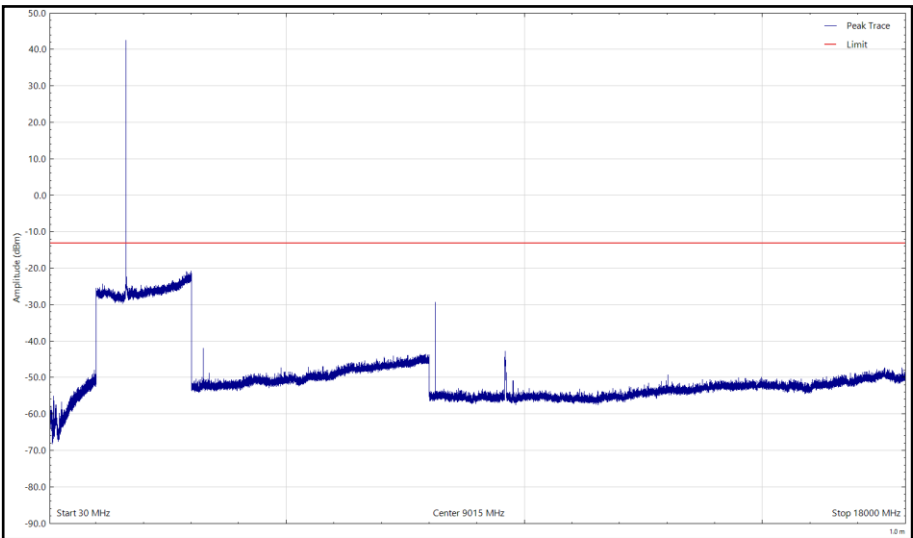


Figure 3 - Bottom Channel Orientation X, 1626.712 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 17 - Bottom Channel Orientation Y, 1626.712 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

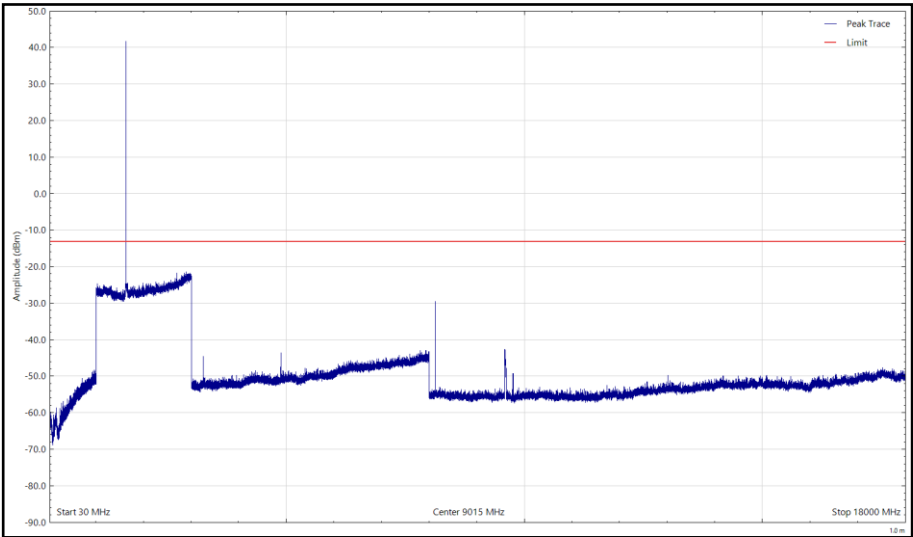


Figure 4 - Bottom Channel Orientation Y, 1626.712 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

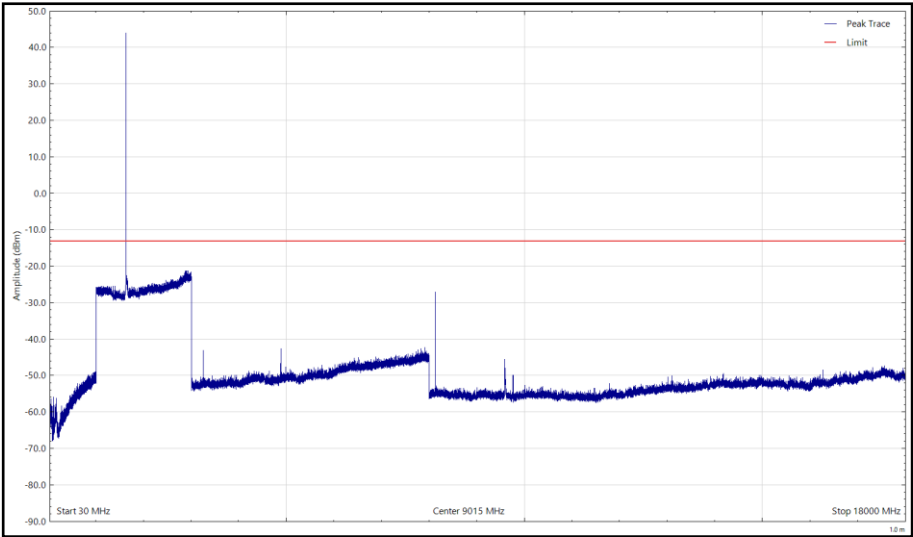


Figure 5 - Bottom Channel Orientation Y, 1626.712 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 18 - Bottom Channel Orientation Z, 1626.712 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

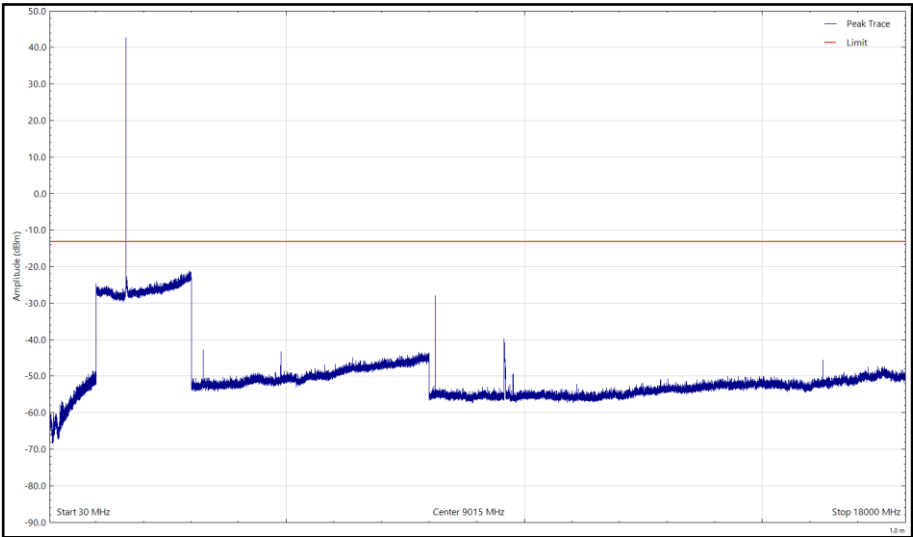


Figure 6 - Bottom Channel Orientation Z, 1626.712 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

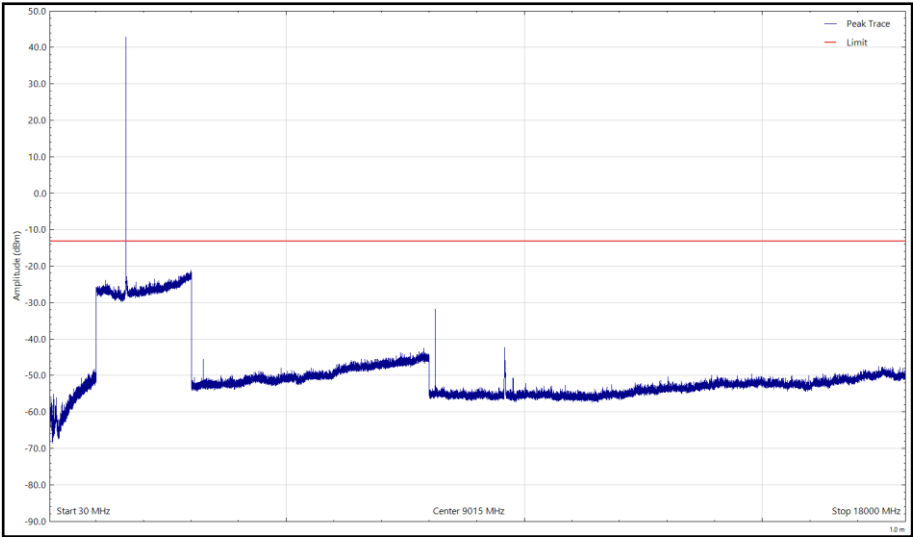


Figure 7 - Bottom Channel Orientation Z, 1626.712 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 19 - Mid Channel Orientation X, 1643.5 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

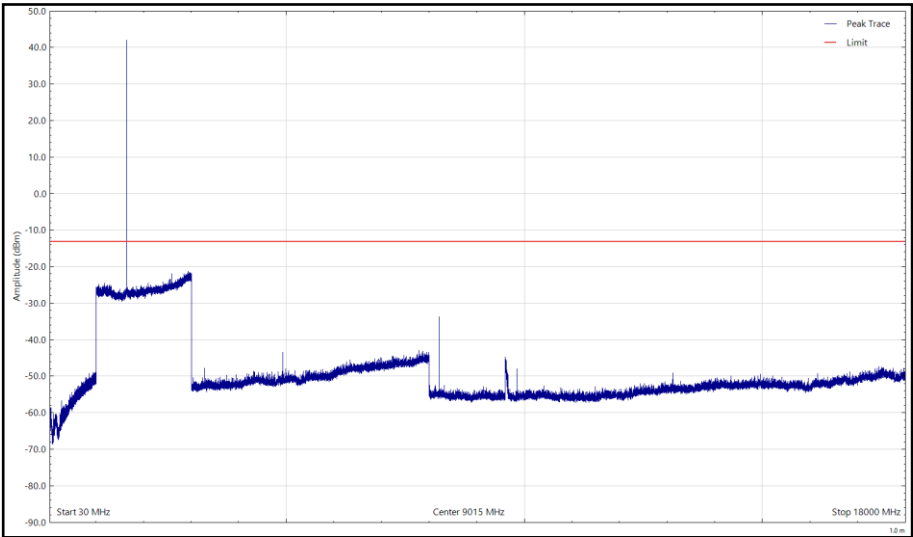


Figure 8 - Mid Channel Orientation X, 1643.5 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

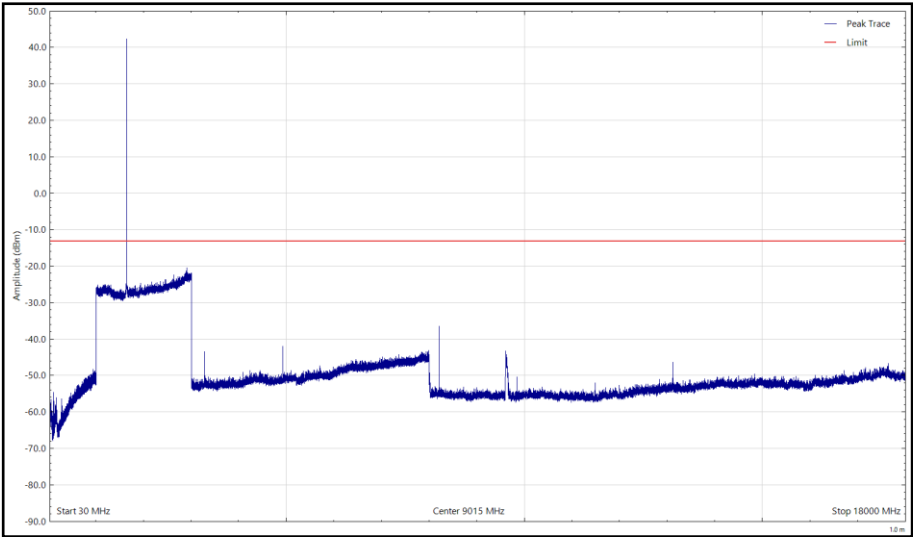


Figure 9 - Mid Channel Orientation X, 1643.5 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 20 - Mid Channel Orientation Y, 1643.5 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

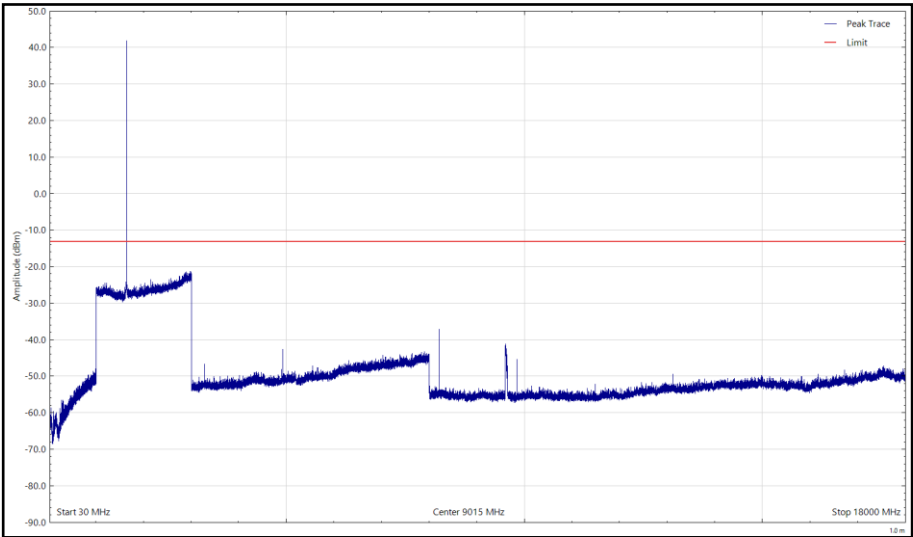


Figure 10 - Mid Channel Orientation Y, 1643.5 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

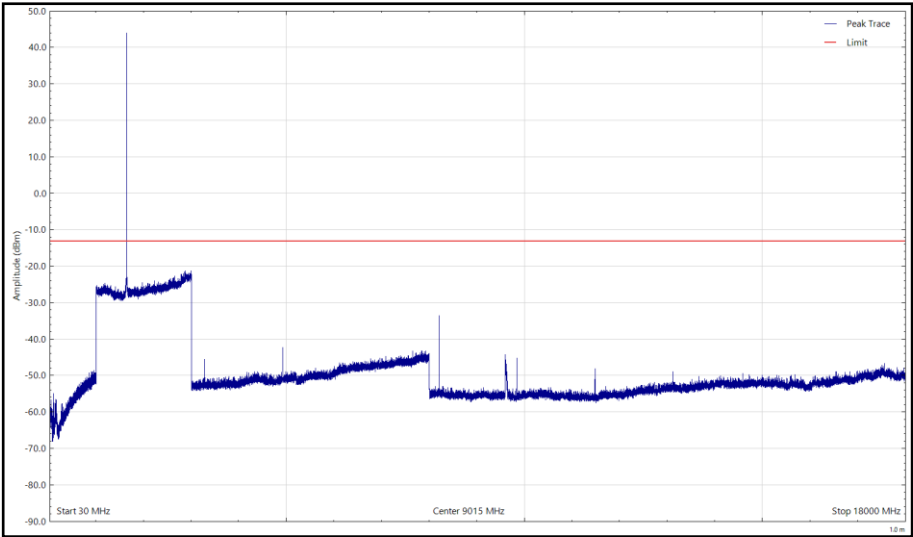


Figure 11 - Mid Channel Orientation Y, 1643.5 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 21 - Mid Channel Orientation Z, 1643.5 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

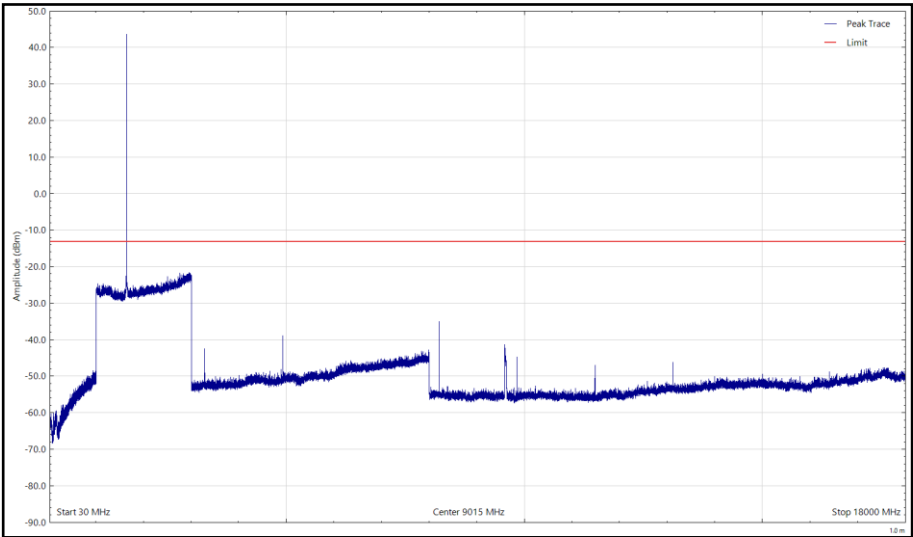


Figure 12 - Mid Channel Orientation Z, 1643.5 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

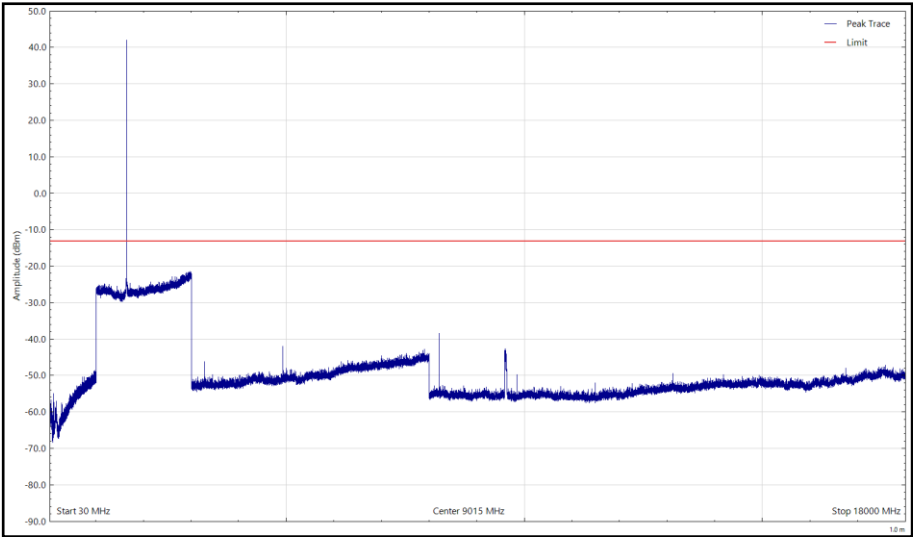


Figure 13 - Mid Channel Orientation Z, 1643.5 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 22 - Top Channel Orientation X, 1660.288 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

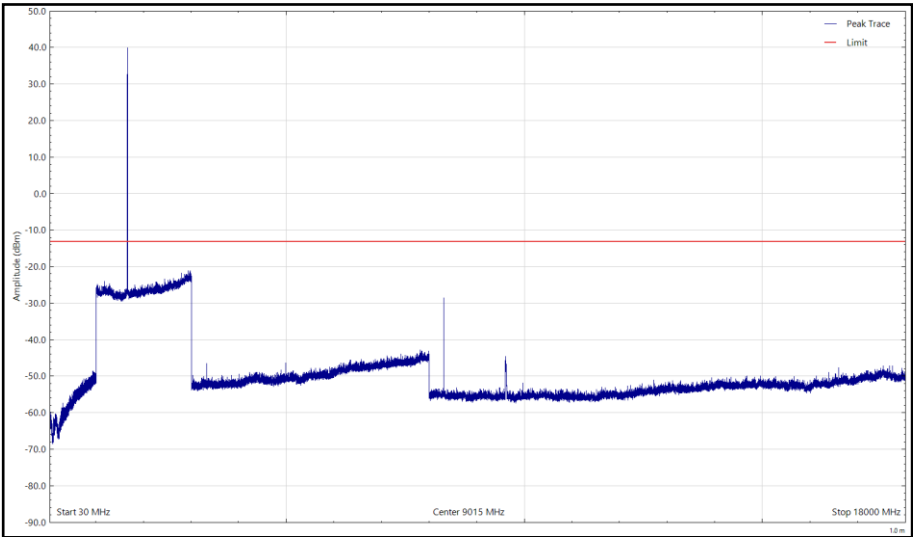


Figure 14 - Top Channel Orientation X, 1660.288 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

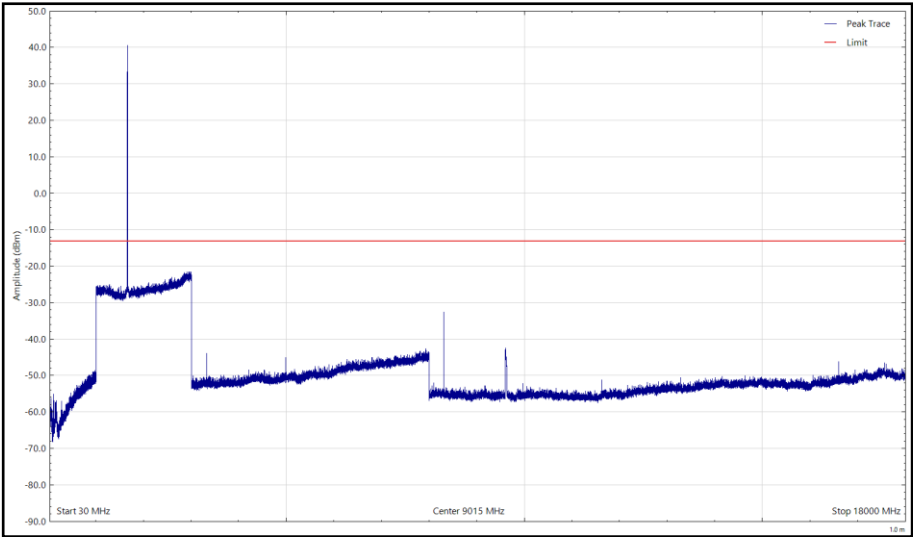


Figure 15 - Top Channel Orientation X, 1660.288 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 23 - Top Channel Orientation Y, 1660.288 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

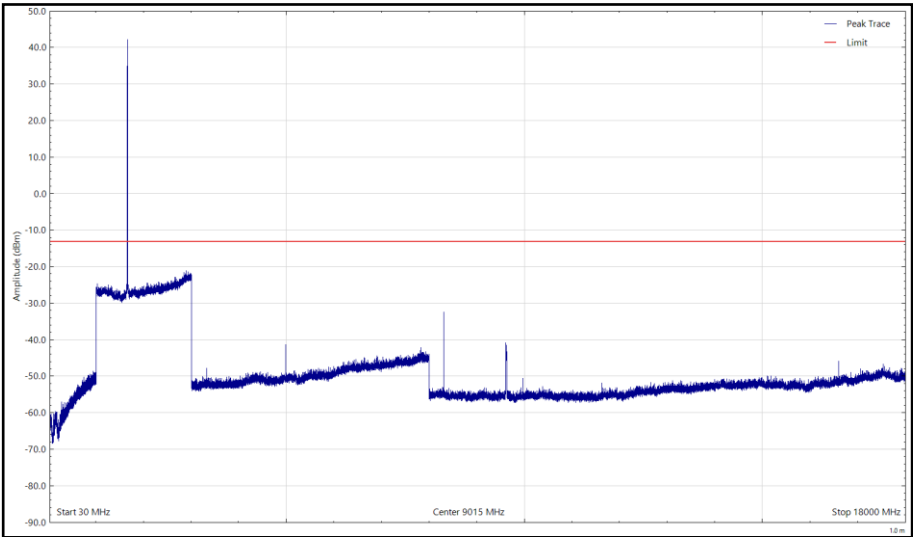


Figure 16 - Top Channel Orientation Y, 1660.288 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

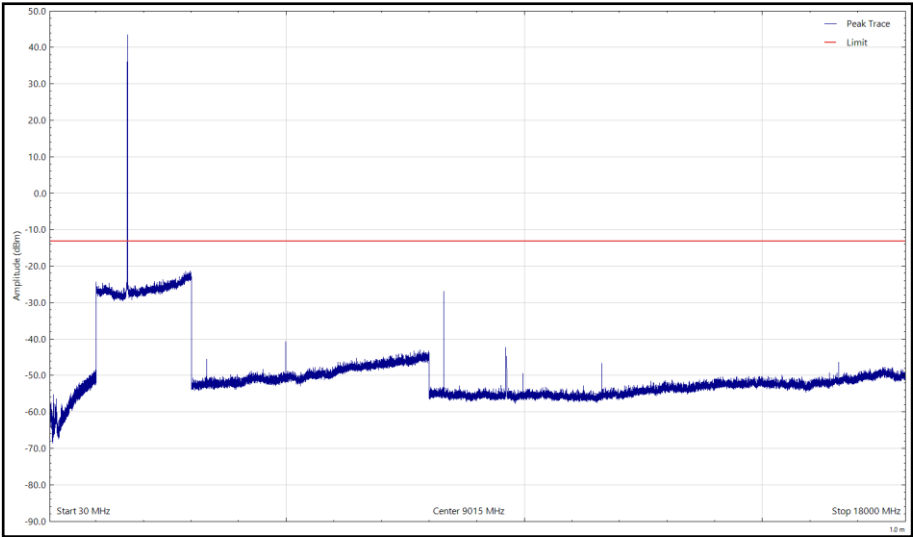


Figure 17 - Top Channel Orientation Y, 1660.288 MHz, 30 MHz to 18 GHz, Vertical (Peak)



| Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------|-------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 24 - Top Channel Orientation Z, 1660.288 MHz, 30 MHz to 18 GHz

*No emissions found within 10 dB of the limit.

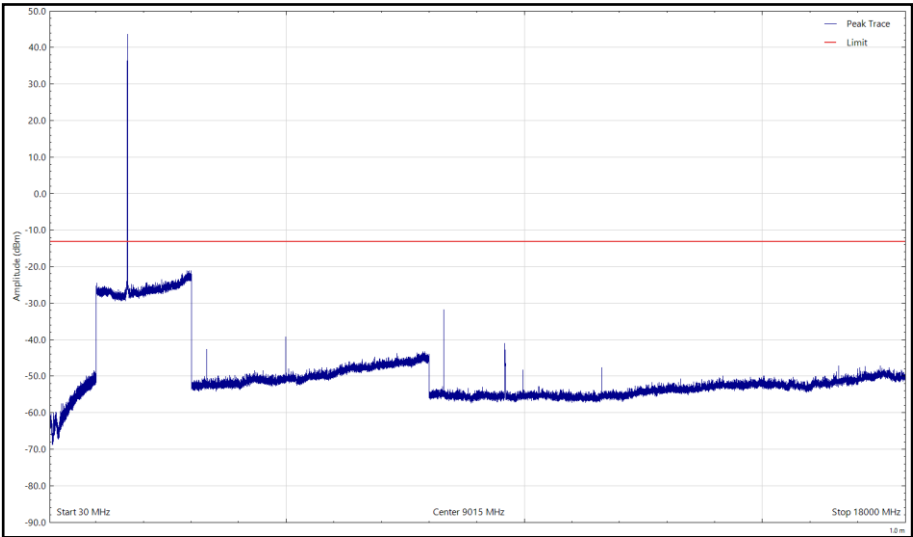


Figure 18 - Top Channel Orientation Z, 1660.288 MHz, 30 MHz to 18 GHz, Horizontal (Peak)

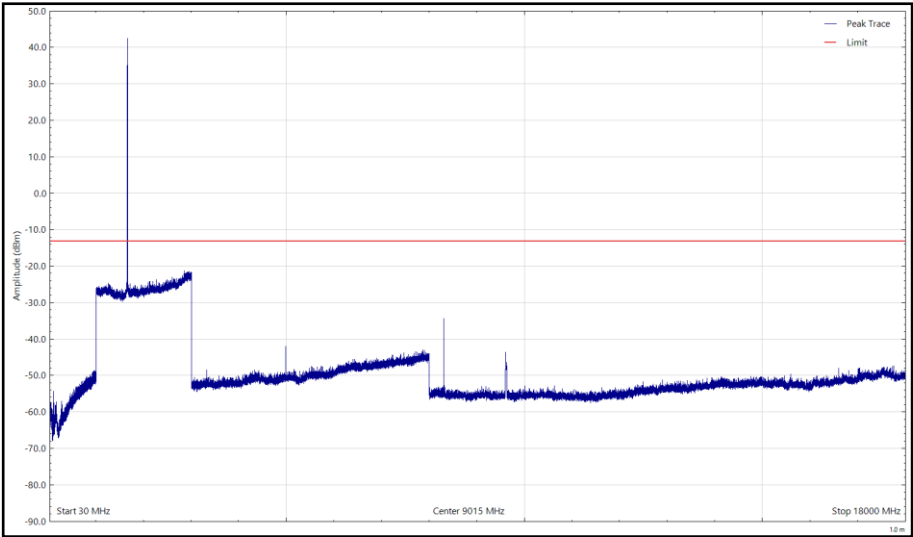


Figure 19 - Top Channel Orientation Z, 1660.288 MHz, 30 MHz to 18 GHz, Vertical (Peak)



FCC 47 CFR Part 25, Limit Clause 25.202(f)

The average power of unwanted emissions shall be attenuated below the average output power, P(dBW), of the transmitter, as specified below:

25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the authorised bandwidth;

35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the authorised bandwidth;

$43 + 10 \log p$ (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the authorised bandwidth.

ISED RSS-170, Limit Clause 5.8

The average power of unwanted emissions shall be attenuated below the average output power, P(dBW), of the transmitter, as specified below:

25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the occupied bandwidth or necessary bandwidth, whichever is greater;

35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the occupied bandwidth or necessary bandwidth, whichever is greater;

$43 + 10 \log p$ (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater.



2.1.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Expires |
|-------------------------------------|----------------------|-----------------------------|-------|-----------------------------|---------------------|
| Dual Power Supply Unit | Hewlett Packard | 6253A | 292 | - | O/P Mon |
| True RMS Multimeter | Fluke | 179 | 4007 | 12 | 17-Nov-2024 |
| 1 metre K-Type Cable | Florida Labs | KMS-180SP-39.4-KMS | 4519 | 12 | 01-Feb-2025 |
| Test Receiver | Rohde & Schwarz | ESW44 | 5084 | 12 | 04-Nov-2024 |
| Emissions Software | TUV SUD | EmX V3.5.1 | 5125 | - | Software |
| 3m Semi-Anechoic Chamber | Rainford | RF Chamber 11 | 5136 | 36 | 24-Nov-2024 |
| Mast | Maturo | TAM 4.0-P | 5158 | - | TU |
| Mast and Turntable Controller | Maturo | Maturo NCD | 5159 | - | TU |
| Turntable | Maturo | TT 15WF | 5160 | - | TU |
| Antenna (DRG, 1 GHz to 10.5 GHz) | Schwarzbeck | BBHA9120B | 5215 | 12 | 14-Jul-2025 |
| Antenna (DRG, 7.5 GHz to 18 GHz) | Schwarzbeck | HWRD750 | 5216 | 12 | 14-Jul-2025 |
| 3 GHz High pass filter | Wainwright | WHKX12-2580-3000-18000-80SS | 5220 | 12 | 03-Apr-2025 |
| Pre-Amplifier (1 GHz to 26.5 GHz) | Agilent Technologies | 8449B | 5445 | 12 | 23-May-2025 |
| Thermo-Hygro-Barometer | PCE Instruments | PCE-THB-40 | 5481 | 12 | 13-May-2025 |
| Cable (SMA to SMA, 2 m) | Junkosha | MWX221-02000AMSAMS/A | 5518 | 12 | 18-Apr-2025 |
| 7 GHz High pass Filter | Wainwright | WHKX12-5850-6800-18000-80SS | 5550 | 12 | 30-May-2025 |
| Pre-Amplifier (8 GHz to 18 GHz) | Wright Technologies | APS06-0061 | 5595 | 12 | 26-Oct-2024 |
| TRILOG Super Broadband Test Antenna | Schwarzbeck | VULB 9168 | 5942 | 24 | 24-May-2026 |
| Cable (N to N 8m) | Junkosha | MWX221-08000NMSNMS/B | 6330 | 6 | 17-Feb-2025 |
| Spectrum Analyser | Anritsu | MT8821C | 6542 | 12 | 28-Jun-2025 |

Table 25

TU - Traceability Unscheduled
O/P Mon – Output Monitored using calibrated equipment

3 Photographs

3.1 Test Setup Photographs

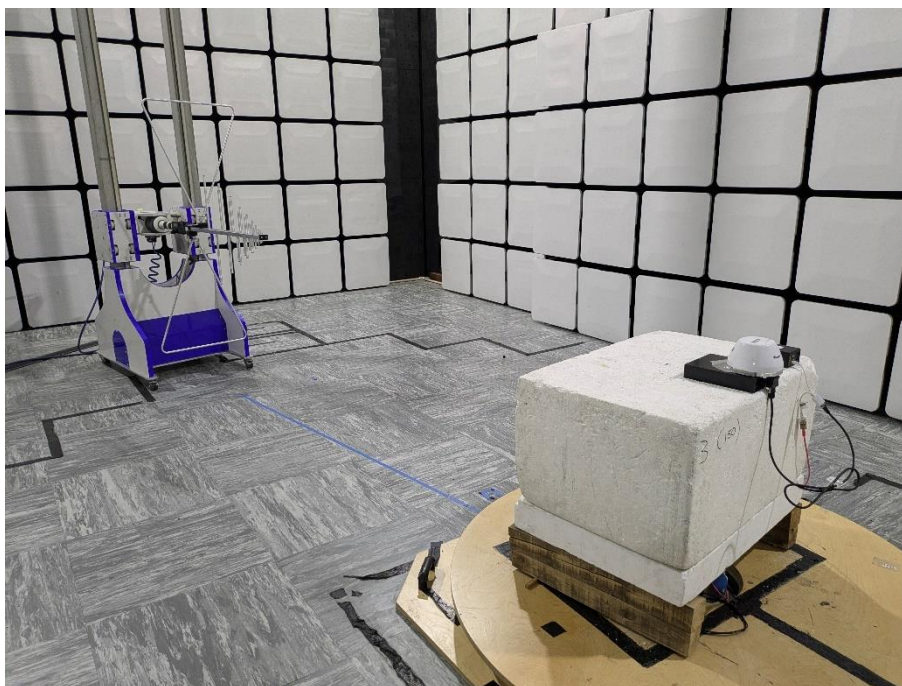


Figure 20 - Radiated Emissions, 30 MHz to 1 GHz

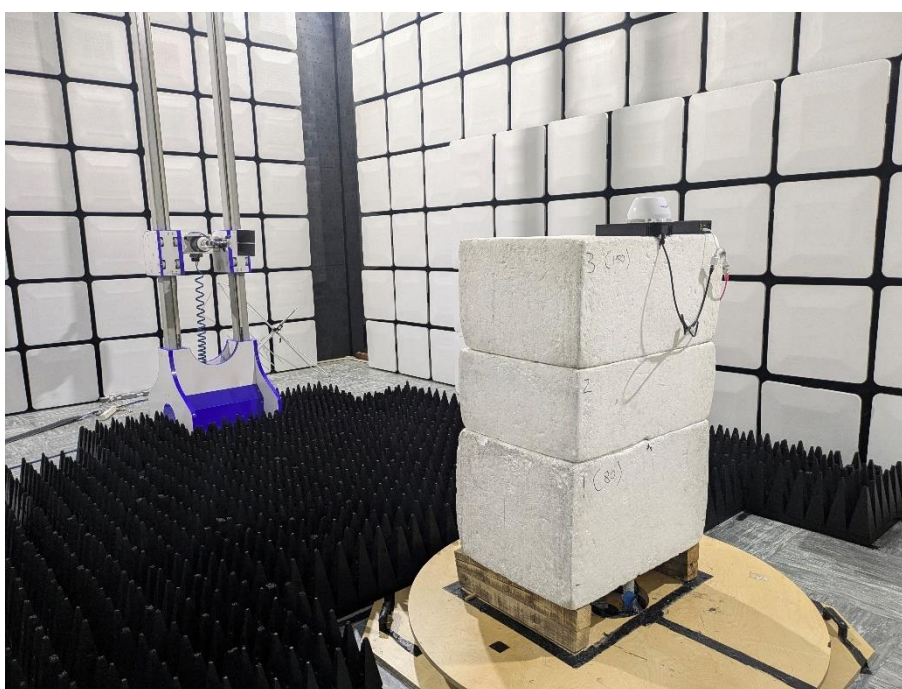


Figure 21 - Radiated Emissions, 1 GHz to 8 GHz



Figure 22 - Radiated Emissions, 8 GHz to 18 GHz



Figure 23 - Radiated Emissions, X-Plane



Figure 24 - Radiated Emissions, Y-Plane



Figure 25 - Radiated Emissions, Z-Plane



4 Measurement Uncertainty

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

| Test Name | Measurement Uncertainty |
|-----------------------------|-------------------------------|
| Radiated Spurious Emissions | 30 MHz to 1 GHz: ± 5.2 dB |
| | 1 GHz to 18 GHz: ± 6.3 dB |

Table 26

Measurement Uncertainty Decision Rule – Accuracy Method

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.