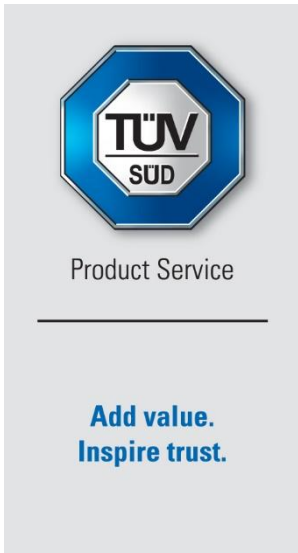


# Report on the FCC and IC Testing of the STORZ & BICKEL GmbH

Model: VEAZY

In accordance with FCC 47 CFR Part 15 C  
and ISSED RSS-247 and ISSED RSS-GEN

Prepared for: STORZ & BICKEL GmbH  
In Grubenäcker 5 – 9  
78532 Tuttlingen



## COMMERCIAL-IN-CONFIDENCE

FCC ID: 2APJE-SBVZ  
IC: 23679-SBVZ

Date: 2026-05-18  
Document Number: TR-713354120-01 | Revision 2

| RESPONSIBLE FOR      | NAME            | DATE       | SIGNATURE                                                                                                              |
|----------------------|-----------------|------------|------------------------------------------------------------------------------------------------------------------------|
| Project Management   | Martin Steindl  | 2026-05-18 | <br>18.05.2026<br>Martin Steindl  |
| Authorised Signatory | Alexander Grill | 2026-05-20 | <br>20.05.2026<br>Alexander Grill |

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

### Engineering Statement:

This measurement 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 with FCC 47 CFR Part 15 C and ISSED RSS-247 and RSS-GEN.  
The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME           | DATE       | SIGNATURE                                                                                                             |
|-----------------|----------------|------------|-----------------------------------------------------------------------------------------------------------------------|
| Testing         | Martin Steindl | 2026-05-18 | <br>18.05.2026<br>Martin Steindl |

|                                                                                                |                                                                |                                                   |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|
| Laboratory Accreditation<br>DAkkS Reg. No. D-PL-11321-11-03<br>DAkkS Reg. No. D-PL-11321-11-04 | Laboratory recognition<br>Registration No. BNetzA-CAB-16/21-15 | Industry Canada test site registration<br>3050A-2 |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|

### Executive Statement:

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15 C:2024 and ISSED RSS-247 : 202025 and ISSED RSS-Gen : 2021 / A2 : 2021

|                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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# 1 Report Summary

## 1.1 Modification Report

Alternations and additions of this report will be issued to the holders of each copy in the form of a complete document. Current version replaces all previous versions.

| Revision | Description of changes                                     | Date of Issue |
|----------|------------------------------------------------------------|---------------|
| 0        | First Issue                                                | 2026-02-04    |
| 1        | Correction to RSS-247, Issue 4                             | 2026-03-17    |
| 2        | Updated normative reference of ANSI C63.4 to version 2020. | 2026-05-18    |

Table 1: Report of Modifications

## 1.2 Introduction

|                                         |                                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Applicant                               | STORZ & BICKEL GmbH<br>In Grubenäcker 5 – 9<br>78532 Tuttlingen                                                           |
| Manufacturer                            | STORZ & BICKEL GmbH                                                                                                       |
| Model Number(s)                         | VEAZY                                                                                                                     |
| Serial Number(s)                        | N/A                                                                                                                       |
| Hardware Version(s)                     | N/A                                                                                                                       |
| Software Version(s)                     | N/A                                                                                                                       |
| Number of Samples Tested                | 2                                                                                                                         |
| Test Specification(s) /<br>Issue / Date | FCC 47 CFR Part 15 C : 2024<br>ISED RSS-247, Issue 4 : 2025<br>ISED RSS-GEN, Issue 5 : 2018 + Amd.1 : 2019 + Amd.2 : 2021 |
| Test Plan/Issue/Date                    | N/A                                                                                                                       |
| Order Number                            | 8065332                                                                                                                   |
| Date                                    |                                                                                                                           |
| Date of Receipt of EUT                  | 2025-05-028; 2025-12-11                                                                                                   |
| Start of Test                           | 2025-07-11                                                                                                                |
| Finish of Test                          | 2026-02-04                                                                                                                |
| Name of Engineer(s)                     | M. Steindl                                                                                                                |
| Related Document(s)                     | ANSI C63.4: 2014<br>ANSI C63.10: 2020<br>KDB 558074 D01 V05R02                                                            |



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15 C, ISED RSS-247 and ISED RSS-GEN is shown below.

| Section | Specification Clause      | Test Description                       | Result |
|---------|---------------------------|----------------------------------------|--------|
| 2.1     | 15.203, 15.247(b)         | Antenna requirement                    | Pass   |
| 2.2     | 15.247(a)(2)              | Emission Bandwidth                     | Pass   |
| 2.3     | 15.247(b)(3)              | Output Power                           | Pass   |
| 2.4     | 15.247(e)                 | Power Spectral Density                 | Pass   |
| 2.5     | 15.247(d)                 | Frequency Band Edge                    | Pass   |
| 2.6     | 15.247(d), 15.205, 15.209 | Spurious Emissions                     | Pass   |
| 2.8     | 15.207                    | Conducted Emissions on Mains Terminals | Pass   |

**Table 2: Results according to FCC 47 CFR Part 15 C**

| Section | Specification Clause | Test Description       | Result |
|---------|----------------------|------------------------|--------|
| 2.2     | 6.3.1 a.             | Emission Bandwidth     | Pass   |
| 2.3     | 6.3.2                | Output Power           | Pass   |
| 2.4     | 6.3.1 b.             | Power Spectral Density | Pass   |
| 2.5     | 6.6                  | Frequency Band Edge    | Pass   |
| 2.6     | 6.6                  | Spurious Emissions     | Pass   |

**Table 3: Results according to ISED RSS-247**

| Section | Specification Clause | Test Description                       | Result |
|---------|----------------------|----------------------------------------|--------|
| 2.2     | 6.7                  | Emission Bandwidth                     | Pass   |
| 2.6     | 8.9, 8.10            | Spurious Emissions                     | Pass   |
| 2.7     | 8.11                 | Frequency Stability                    | Pass   |
| 2.8     | 8.8                  | Conducted Emissions on Mains Terminals | Pass   |

**Table 4: Results according to RSS-Gen**



## 1.4 Product Information

### 1.4.1 Technical Description



**Frequency Band:** 2400.0 MHz – 2483.5 MHz

**Supply Voltage:** Internal battery supply with USB-C charging

**Supply Frequency:** DC

### 1.4.2 List of Antennas

| Manufacturer        | Model         | Antenna impedance | Antenna Type | Antenna gain |
|---------------------|---------------|-------------------|--------------|--------------|
| Johanson Technology | 2450AT42E0100 | 50 $\Omega$       | SMD          | -2 dBi max   |

Table 5: List of antennas

### 1.4.3 EUT Ports / Cables identification

| Port                | Max Cable Length specified | Usage               | Screened |
|---------------------|----------------------------|---------------------|----------|
| USB-C charging port | N/A                        | Signal/Control port | Yes      |

Table 6 Ports and Cables identification



## 1.5 Test Configuration

The EUT was configured as stand alone device.  
The customer provided a sample for conducted and radiated tests, each.

## 1.6 Modes of Operation

Tests were performed for lowest, middle and highest BLE channel with nominal 0 dBm carrier power.

## 1.7 EUT Modifications 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 |
|--------------------|-------------------------------------------------|------------------------|--------------------------|
| 0                  | As supplied by the customer                     | Not Applicable         | Not Applicable           |

Table 7

## 1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing test laboratory:

| Test Name                              | Name of Engineer(s) |
|----------------------------------------|---------------------|
| Antenna requirement                    | M. Steindl          |
| Emission Bandwidth                     | M. Steindl          |
| Output Power                           | M. Steindl          |
| Power Spectral Density                 | M. Steindl          |
| Frequency Band Edge                    | M. Steindl          |
| Spurious Emissions                     | M. Steindl          |
| Frequency Stability                    | M. Steindl          |
| Conducted Emissions on Mains Terminals | M. Steindl          |

### Office Address:

Äußere Frühlingstraße 45  
94315 Straubing  
Germany



## 2 Test Details

### 2.1 Antenna requirement

#### 2.1.1 Specification Reference

FCC 47 CFR Part 15 C, Clauses 15.203, 15.247(b)

#### 2.1.2 Equipment under Test and Modification State

VEAZY; S/N BLE DTM #3; Modification state 0

#### 2.1.3 Date of Test

2026-02-04

#### 2.1.4 Specification Limits

##### FCC 47 CFR 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some fields disturbance sensors, or to other intentional radiators which must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits are not exceeded.

##### FCC 47 CFR 15.247(b)

Except for point-to-point operation and multiple directional beams, if the transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 2.1.5 Test Results

*Antenna connector type:* N/A – SMB antenna on printed board  
*Antenna connector impedance:* 50  $\Omega$

| <i>Manufacturer</i> | <i>Model</i>  | <i>Antenna gain</i> | <i>Result</i> |
|---------------------|---------------|---------------------|---------------|
| Johanson Technology | 2450AT42E0100 | -2.0 dBi max        | Pass          |



## **2.2 Emission Bandwidth**

### **2.2.1 Specification Reference**

FCC 47 CFR Part 15 C, Clause 15.247(a)(2)  
ISED RSS-247, Clause 6.3.1 a.  
ISED RSS-Gen, Clause 6.7

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

VEAZY; S/N BLE DTM #3; Modification state 0

### **2.2.3 Date of Test**

2025-12-11

### **2.2.4 Environmental Conditions**

|                     |       |
|---------------------|-------|
| Ambient Temperature | 22 °C |
| Relative Humidity   | 40 %  |

### **2.2.5 Specification Limits**

For systems using digital modulation techniques, operating in the 902 MHz – 928 MHz, 2400 MHz – 2483.5 MHz and/or 5725 MHz – 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz

#### **ISED RSS-GEN:**

The occupied (99 %) bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSS.

### **2.2.6 Test Method**

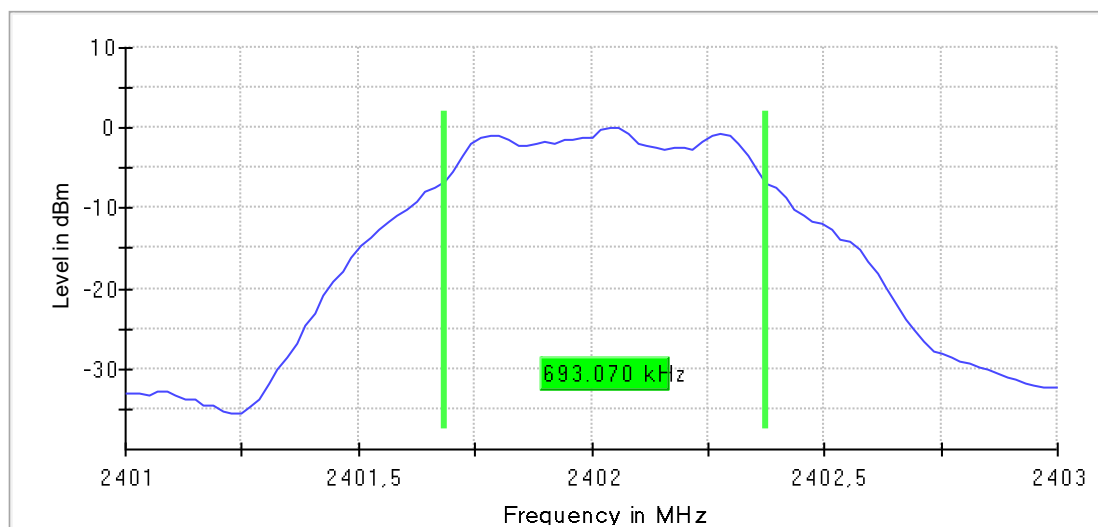
The test was performed according to ANSI C63.10, clauses 6.9.3 and 11.8.1

## 2.2.7 Test Results

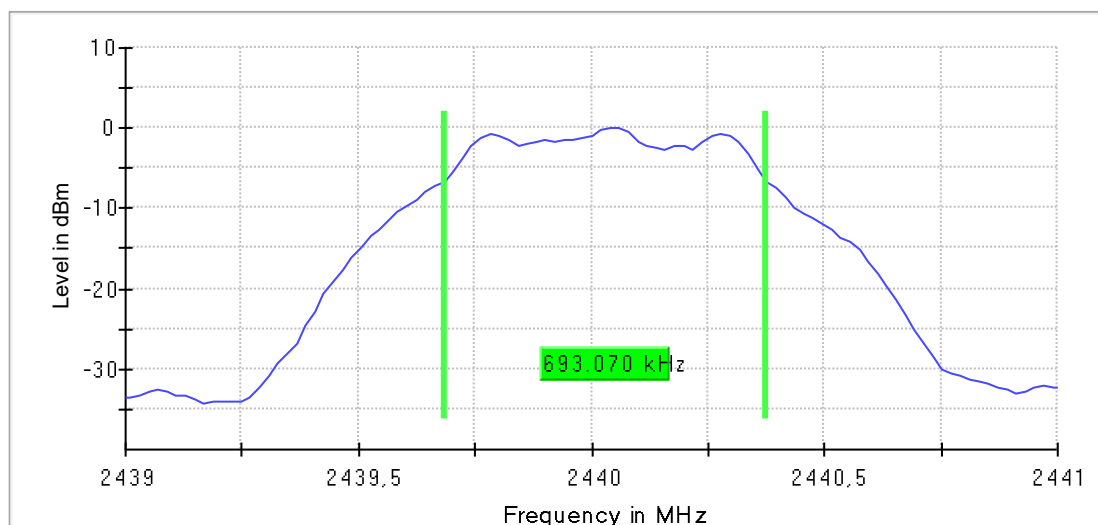
| Frequency Channel | 6 dB Bandwidth | Limit     | Band Edge Left  | Band Edge Right |
|-------------------|----------------|-----------|-----------------|-----------------|
| 2402 MHz          | 693.070 kHz    | > 500 kHz | 2401.683168 MHz | 2402.376238 MHz |
| 2440 MHz          | 693.070 kHz    | > 500 kHz | 2439.683168 MHz | 2440.376238 MHz |
| 2480 MHz          | 693.070 kHz    | > 500 kHz | 2479.683168 MHz | 2480.376238 MHz |

**Table 8: 6 dB bandwidth**

6 dB Bandwidth

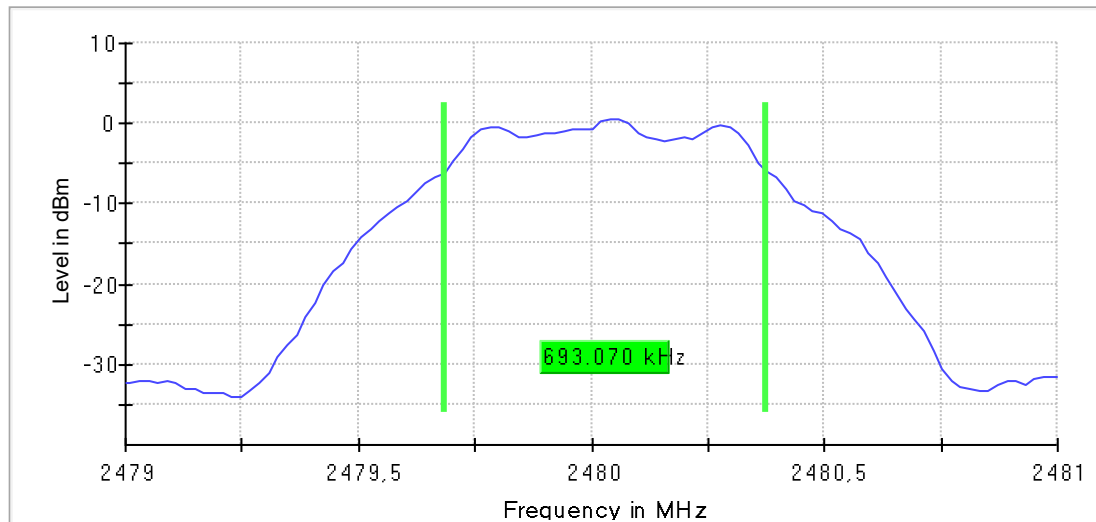


6 dB Bandwidth





6 dB Bandwidth



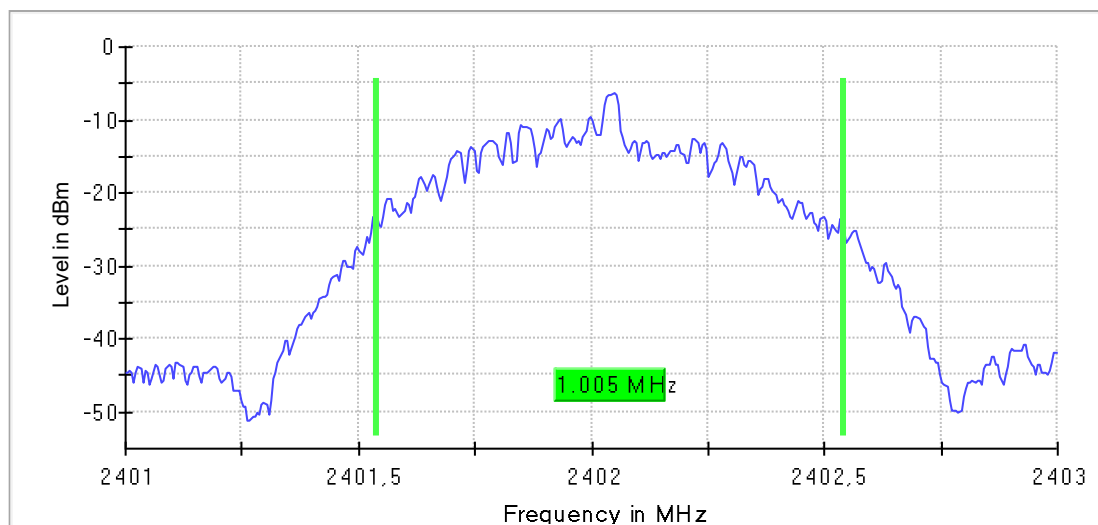
| Setting               | Instrument Value1 | Instrument Value 2 | Instrument Value 3 | Target Value  |
|-----------------------|-------------------|--------------------|--------------------|---------------|
| Start Frequency       | 2.40100 GHz       | 2.43900 GHz        | 2.47900 GHz        | ---           |
| Stop Frequency        | 2.40300 GHz       | 2.44100 GHz        | 2.48100 GHz        | ---           |
| Span                  | 2.000 MHz         | 2.000 MHz          | 2.000 MHz          | 2.000 MHz     |
| RBW                   | 100.000 kHz       | 100.000 kHz        | 100.000 kHz        | ~ 100.000 kHz |
| VBW                   | 300.000 kHz       | 300.000 kHz        | 300.000 kHz        | ~ 300.000 kHz |
| SweepPoints           | 101               | 101                | 101                | ~ 40          |
| SweepTime             | 18.938 $\mu$ s    | 18.938 $\mu$ s     | 18.938 $\mu$ s     | AUTO          |
| Reference Level       | -10.000 dBm       | -10.000 dBm        | -10.000 dBm        | -10.000 dBm   |
| Attenuation           | 10.000 dB         | 10.000 dB          | 10.000 dB          | AUTO          |
| Detector              | MaxPeak           | MaxPeak            | MaxPeak            | MaxPeak       |
| SweepCount            | 100               | 100                | 100                | 100           |
| Filter                | 3 dB              | 3 dB               | 3 dB               | 3 dB          |
| Trace Mode            | Max Hold          | Max Hold           | Max Hold           | Max Hold      |
| SweepType             | FFT               | FFT                | FFT                | AUTO          |
| Preamp                | off               | off                | off                | off           |
| Stablemode            | Trace             | Trace              | Trace              | Trace         |
| Stablevalue           | 0.50 dB           | 0.50 dB            | 0.50 dB            | 0.50 dB       |
| Run                   | 10 / max. 150     | 11 / max. 150      | 8 / max. 150       | max. 150      |
| Stable                | 5 / 5             | 5 / 5              | 5 / 5              | 5             |
| Max Stable Difference | 0.00 dB           | 0.21 dB            | 0.20 dB            | 0.50 dB       |



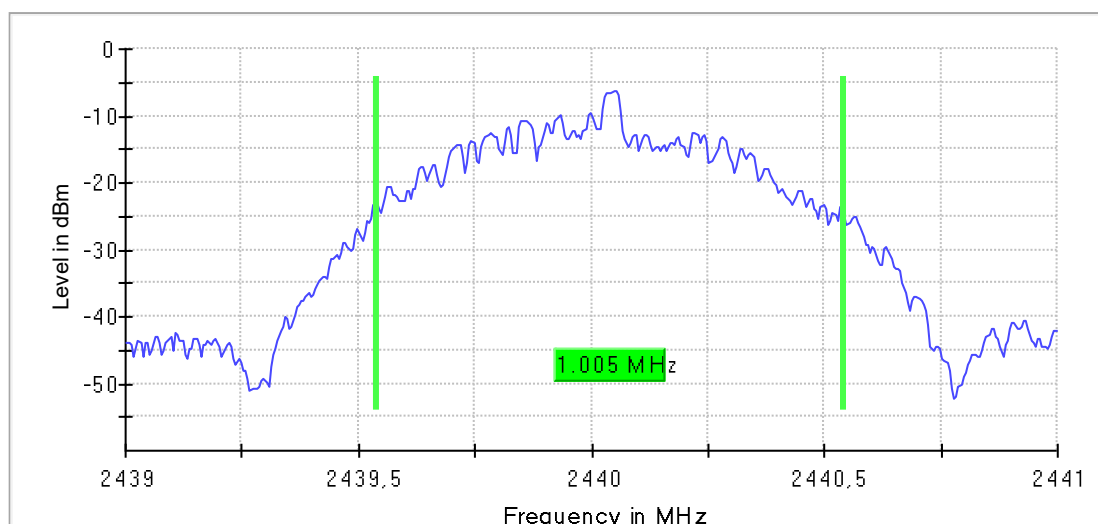
| Frequency Channel | 99% Bandwidth | Band Edge Left  | Band Edge Right |
|-------------------|---------------|-----------------|-----------------|
| 2402 MHz          | 1.005000 MHz  | 2401.537500 MHz | 2402.542500 MHz |
| 2440 MHz          | 1.005000 MHz  | 2439.537500 MHz | 2440.5425 MHz   |
| 2480 MHz          | 1.00500 MHz   | 2479.537500 MHz | 2480.5425 MHz   |

**Table 9: 99% bandwidth**

99 % Bandwidth

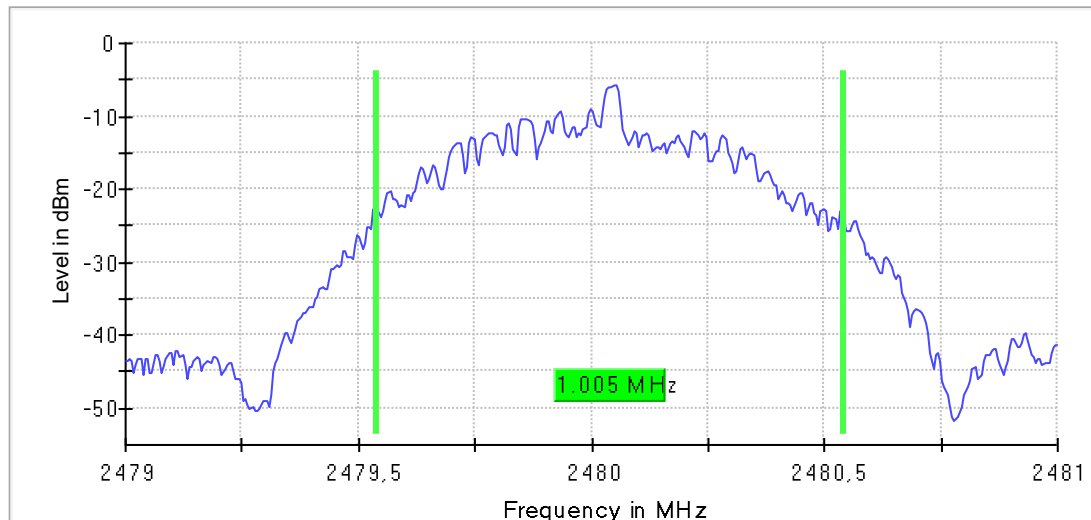


99 % Bandwidth





99 % Bandwidth



| Setting               | Instrument Value1 | Instrument Value 2 | Instrument Value 3 | Target Value  |
|-----------------------|-------------------|--------------------|--------------------|---------------|
| Start Frequency       | 2.40100 GHz       | 2.43900 GHz        | 2.47900 GHz        | ---           |
| Stop Frequency        | 2.40300 GHz       | 2.44100 GHz        | 2.48100 GHz        | ---           |
| Span                  | 2.000 MHz         | 2.000 MHz          | 2.000 MHz          | 2.000 MHz     |
| RBW                   | 10.000 kHz        | 10.000 kHz         | 10.000 kHz         | >= 10.000 kHz |
| VBW                   | 30.000 kHz        | 30.000 kHz         | 30.000 kHz         | >= 30.000 kHz |
| SweepPoints           | 400               | 400                | 400                | ~ 400         |
| SweepTime             | 189.648 µs        | 189.648 µs         | 189.648 µs         | AUTO          |
| Reference Level       | -10.000 dBm       | -10.000 dBm        | -10.000 dBm        | -10.000 dBm   |
| Attenuation           | 10.000 dB         | 10.000 dB          | 10.000 dB          | AUTO          |
| Detector              | MaxPeak           | MaxPeak            | MaxPeak            | MaxPeak       |
| SweepCount            | 100               | 100                | 100                | 100           |
| Filter                | 3 dB              | 3 dB               | 3 dB               | 3 dB          |
| Trace Mode            | Max Hold          | Max Hold           | Max Hold           | Max Hold      |
| SweepType             | FFT               | FFT                | FFT                | AUTO          |
| Preamp                | off               | off                | off                | off           |
| Stablemode            | Trace             | Trace              | Trace              | Trace         |
| Stablevalue           | 0.30 dB           | 0.30 dB            | 0.30 dB            | 0.30 dB       |
| Run                   | 6 / max. 150      | 6 / max. 150       | 14 / max. 150      | max. 150      |
| Stable                | 3 / 3             | 3 / 3              | 3 / 3              | 3             |
| Max Stable Difference | 0.15 dB           | 0.15 dB            | 0.22 dB            | 0.30 dB       |



## 2.2.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

| Instrument                   | Manufacturer    | Type No | TE No | Calibration Period (months) | Calibration Due |
|------------------------------|-----------------|---------|-------|-----------------------------|-----------------|
| Signal and spectrum analyser | Rohde & Schwarz | FSV40   | 20219 | 24                          | 2026-03-31      |
| Climatic test chamber        | ESPEC           | PL-4J   | 28958 | 12                          | 2026-09-06      |

**Table 10**



## **2.3 Output Power**

### **2.3.1 Specification Reference**

FCC 47 CFR Part 15 C, Clause 15.247(b)(3)  
ISED RSS-247, Clause 6.3.2

### **2.3.2 Equipment under Test and Modification State**

VEAZY; S/N BLE DTM #3; Modification state 0

### **2.3.3 Date of Test**

2025-12-11

### **2.3.4 Environmental Conditions**

|                     |       |
|---------------------|-------|
| Ambient Temperature | 22 °C |
| Relative Humidity   | 40 %  |

### **2.3.5 Specification Limits**

The maximum conducted output power shall not exceed 1 W (30 dBm).  
The e.i.r.p. shall not exceed 4 W (36 dBm).

### **2.3.6 Test Method**

The test was performed according to ANSI C63.10, section 11.9

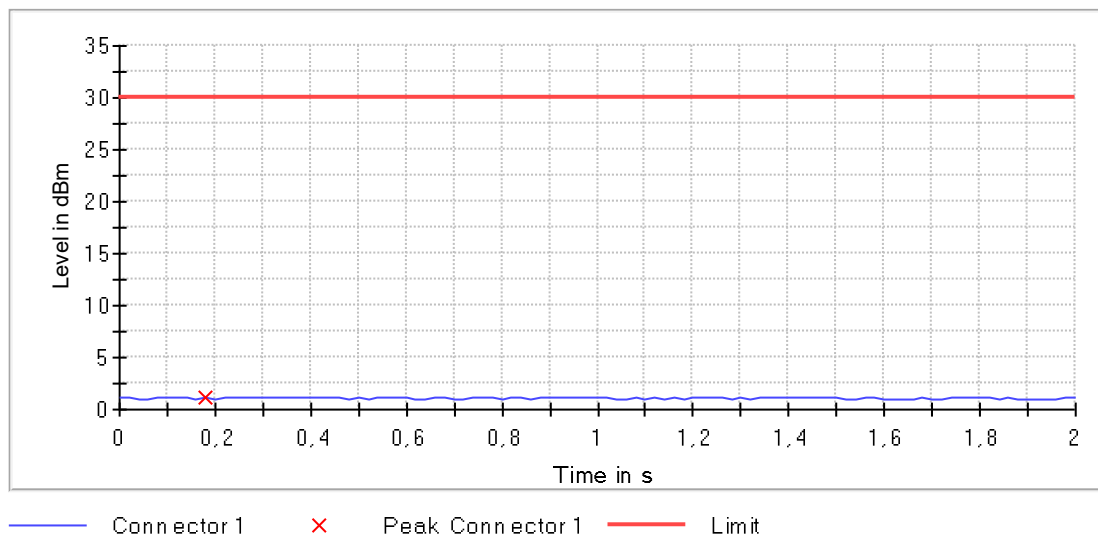


## 2.3.7 Test Results

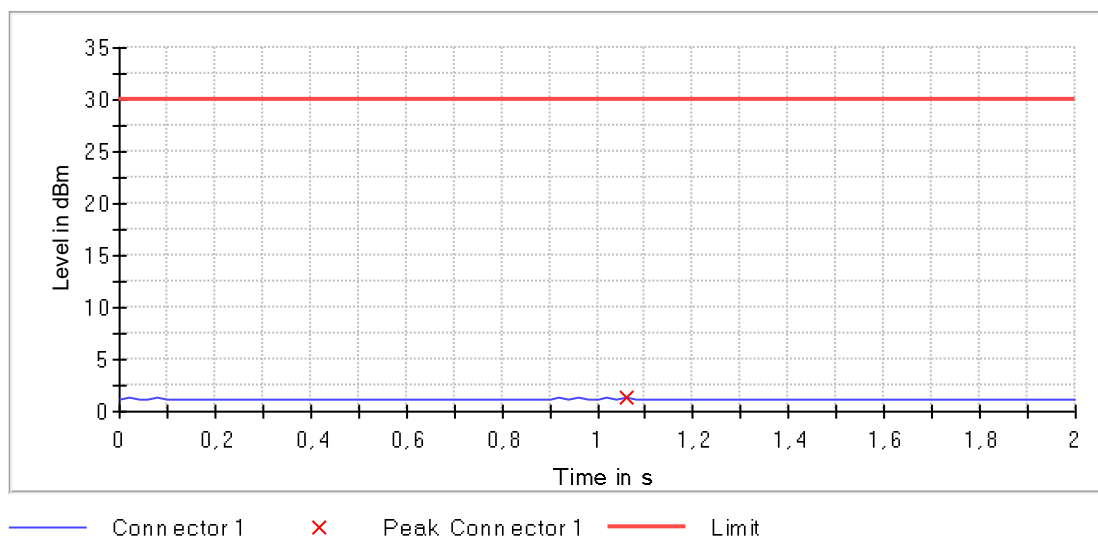
| <i>Frequency Channel</i> | <i>Detector</i> | <i>Conducted Output Power</i> | <i>Limit</i> |
|--------------------------|-----------------|-------------------------------|--------------|
| 2402 MHz                 | PK              | 1.1 dBm                       | < 30.0 dBm   |
| 2440 MHz                 | PK              | 1.3 dBm                       | < 30.0 dBm   |
| 2480 MHz                 | PK              | 1.7 dBm                       | < 30.0 dBm   |

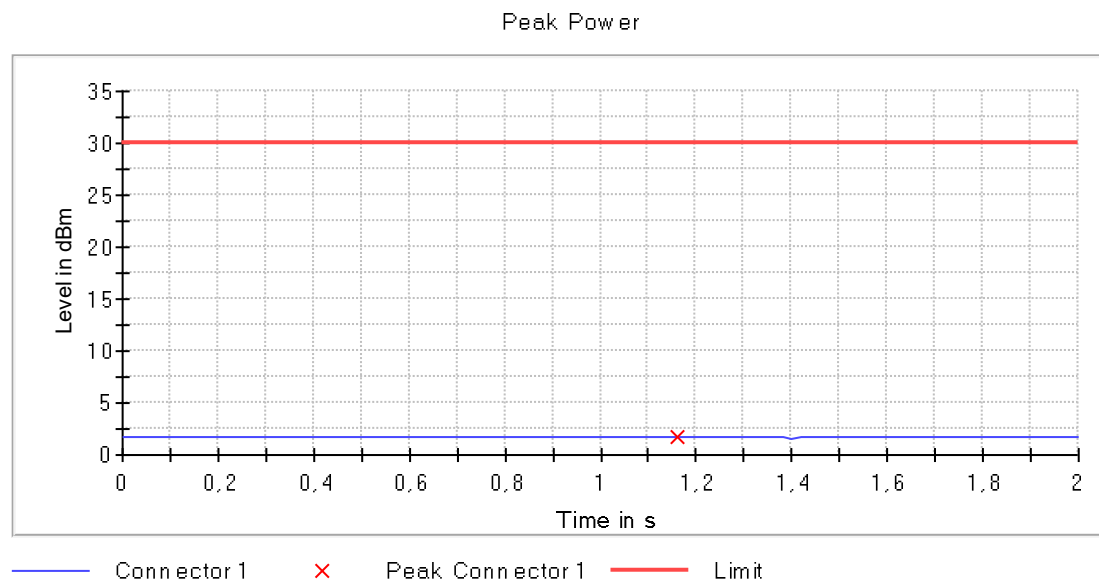
**Table 11: Conducted Output Power**

Peak Power



Peak Power





| Setting          | Instrument Value1 | Instrument Value 2 | Instrument Value 3 | Target Value     |
|------------------|-------------------|--------------------|--------------------|------------------|
| Center Frequency | 2.40200 GHz       | 2.44000 GHz        | 2.48000 GHz        | ---              |
| Span             | ZeroSpan          | ZeroSpan           | ZeroSpan           | ZeroSpan         |
| RBW              | 1.000 MHz         | 1.000 MHz          | 1.000 MHz          | > 6 dB bandwidth |
| VBW              | 3.000 MHz         | 3.000 MHz          | 3.000 MHz          | >= 3.000 MHz     |
| SweepPoints      | 101               | 101                | 101                | ~ 101            |
| SweepTime        | 2.000 s           | 2.000 s            | 2.000 s            | 2.000 s          |
| Reference Level  | 0.000 dBm         | 0.000 dBm          | 0.000 dBm          | 0.000 dBm        |
| Attenuation      | 20.000 dB         | 20.000 dB          | 20.000 dB          | AUTO             |
| Detector         | MaxPeak           | MaxPeak            | MaxPeak            | MaxPeak          |
| SweepCount       | 10                | 10                 | 10                 | 10               |
| Filter           | Channel           | Channel            | Channel            | Channel          |
| Trace Mode       | Max Hold          | Max Hold           | Max Hold           | Max Hold         |
| SweepType        | Sweep             | Sweep              | Sweep              | AUTO             |
| Preamplifier     | off               | off                | off                | off              |

## 2.3.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

| Instrument                   | Manufacturer    | Type No | TE No | Calibration Period (months) | Calibration Due |
|------------------------------|-----------------|---------|-------|-----------------------------|-----------------|
| Signal and spectrum analyser | Rohde & Schwarz | FSV40   | 20219 | 24                          | 2026-03-31      |
| Climatic test chamber        | ESPEC           | PL-4J   | 28958 | 12                          | 2026-09-06      |

Table 12



## **2.4 Power Spectral Density**

### **2.4.1 Specification Reference**

FCC 47 CFR Part 15 C, Clause 15.247(e)  
ISED RSS-247, Clause 6.3.1 b.

### **2.4.2 Equipment under Test and Modification State**

VEAZY; S/N BLE DTM #3; Modification state 0

### **2.4.3 Date of Test**

2025-12-11

### **2.4.4 Environmental Conditions**

|                     |       |
|---------------------|-------|
| Ambient Temperature | 22 °C |
| Relative Humidity   | 40 %  |

### **2.4.5 Specification Limits**

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

The same method (detector) of determining the conducted output power shall be used to determine the power spectral density.

### **2.4.6 Test Method**

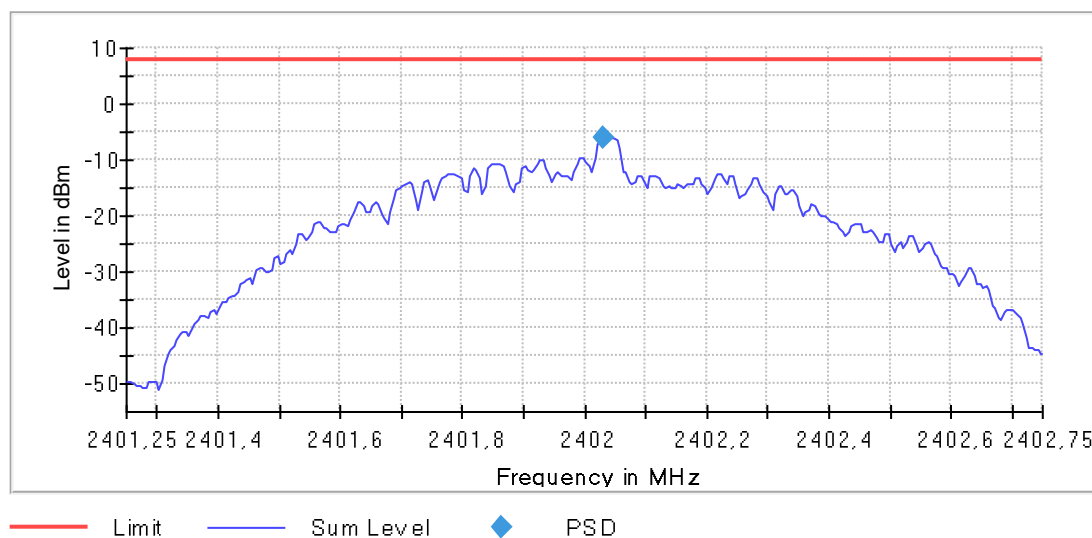
The test was performed according to ANSI C63.10, section 11.10

## 2.4.7 Test Results

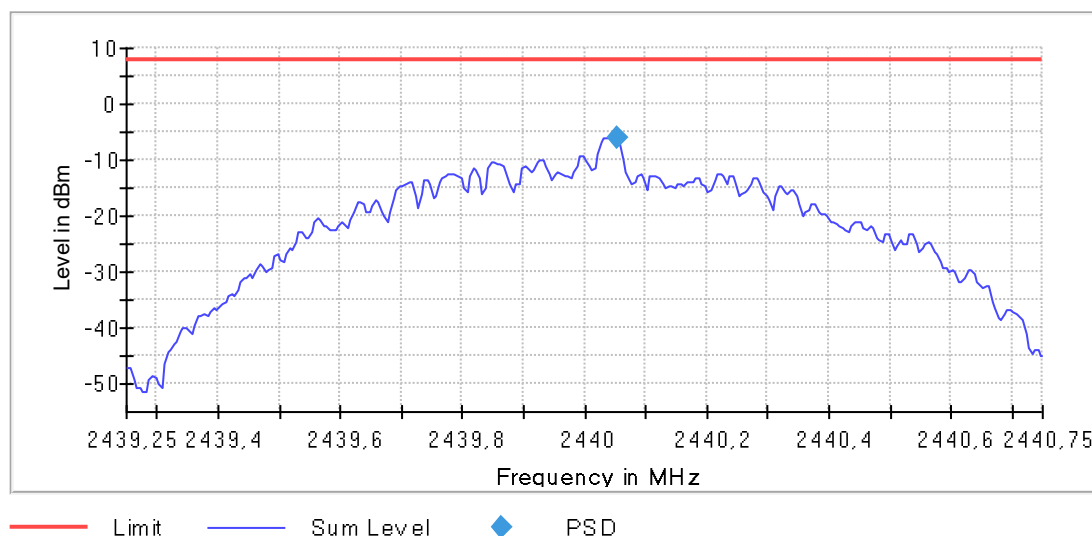
| Frequency Channel | Detector | Spectral Power Density | Limit     |
|-------------------|----------|------------------------|-----------|
| 2402 MHz          | PK       | -6.127 dBm             | < 8.0 dBm |
| 2440 MHz          | PK       | -5.900 dBm             | < 8.0 dBm |
| 2480 MHz          | PK       | -5.697 dBm             | < 8.0 dBm |

Table 13: Spectral Power Density

Peak Power Spectral Density

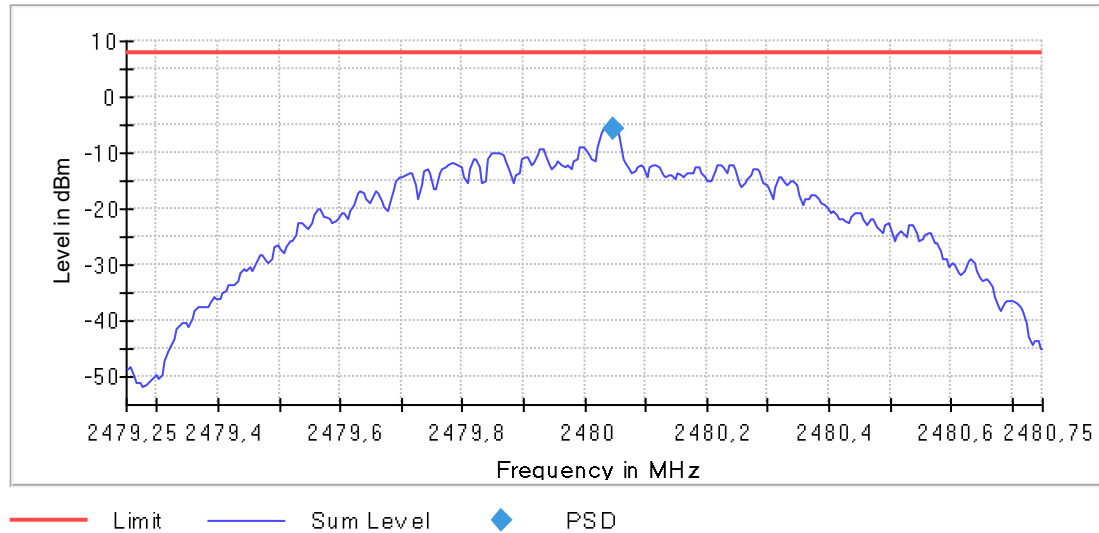


Peak Power Spectral Density





Peak Power Spectral Density



| Setting               | Instrument Value 1 | Instrument Value 2 | Instrument Value 3 | Target Value  |
|-----------------------|--------------------|--------------------|--------------------|---------------|
| Start Frequency       | 2.40125 GHz        | 2.43925 GHz        | 2.47925 GHz        | ---           |
| Stop Frequency        | 2.40275 GHz        | 2.44075 GHz        | 2.48075 GHz        | ---           |
| Span                  | 1.500 MHz          | 1.500 MHz          | 1.500 MHz          | 1.500 MHz     |
| RBW                   | 10.000 kHz         | 10.000 kHz         | 10.000 kHz         | <= 10.000 kHz |
| VBW                   | 30.000 kHz         | 30.000 kHz         | 30.000 kHz         | >= 30.000 kHz |
| SweepPoints           | 300                | 300                | 300                | ~ 300         |
| SweepTime             | 1.500 ms           | 1.500 ms           | 1.500 ms           | AUTO          |
| Reference Level       | -10.000 dBm        | -10.000 dBm        | -10.000 dBm        | -10.000 dBm   |
| Attenuation           | 10.000 dB          | 10.000 dB          | 10.000 dB          | AUTO          |
| Detector              | MaxPeak            | MaxPeak            | MaxPeak            | MaxPeak       |
| SweepCount            | 100                | 100                | 100                | 100           |
| Filter                | 3 dB               | 3 dB               | 3 dB               | 3 dB          |
| Trace Mode            | Max Hold           | Max Hold           | Max Hold           | Max Hold      |
| SweepType             | Sweep              | Sweep              | Sweep              | Sweep         |
| Preamplifier          | off                | off                | off                | off           |
| Stablemode            | Trace              | Trace              | Trace              | Trace         |
| Stablevalue           | 0.50 dB            | 0.50 dB            | 0.50 dB            | 0.50 dB       |
| Run                   | 5 / max. 150       | 8 / max. 150       | 4 / max. 150       | max. 150      |
| Stable                | 2 / 2              | 2 / 2              | 2 / 2              | 2             |
| Max Stable Difference | 0.14 dB            | 0.08 dB            | 0.39 dB            | 0.50 dB       |



Product Service

## 2.4.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

| Instrument                   | Manufacturer    | Type No | TE No | Calibration Period (months) | Calibration Due |
|------------------------------|-----------------|---------|-------|-----------------------------|-----------------|
| Signal and spectrum analyser | Rohde & Schwarz | FSV40   | 20219 | 24                          | 2026-03-31      |
| Climatic test chamber        | ESPEC           | PL-4J   | 28958 | 12                          | 2026-09-06      |

**Table 14**



## **2.5 Frequency Band Edge**

### **2.5.1 Specification Reference**

FCC 47 CFR Part 15 C, Clause 15.247(d)  
ISED RSS-247, Clause 6.6

### **2.5.2 Equipment under Test and Modification State**

VEAZY; S/N BLE DTM #3; Modification state 0

### **2.5.3 Date of Test**

2025-12-11

### **2.5.4 Environmental Conditions**

|                     |       |
|---------------------|-------|
| Ambient Temperature | 22 °C |
| Relative Humidity   | 40 %  |

### **2.5.5 Specification Limits**

In any 100 kHz bandwidth outside the frequency band in which the device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power, based on either conducted or radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits is not required.

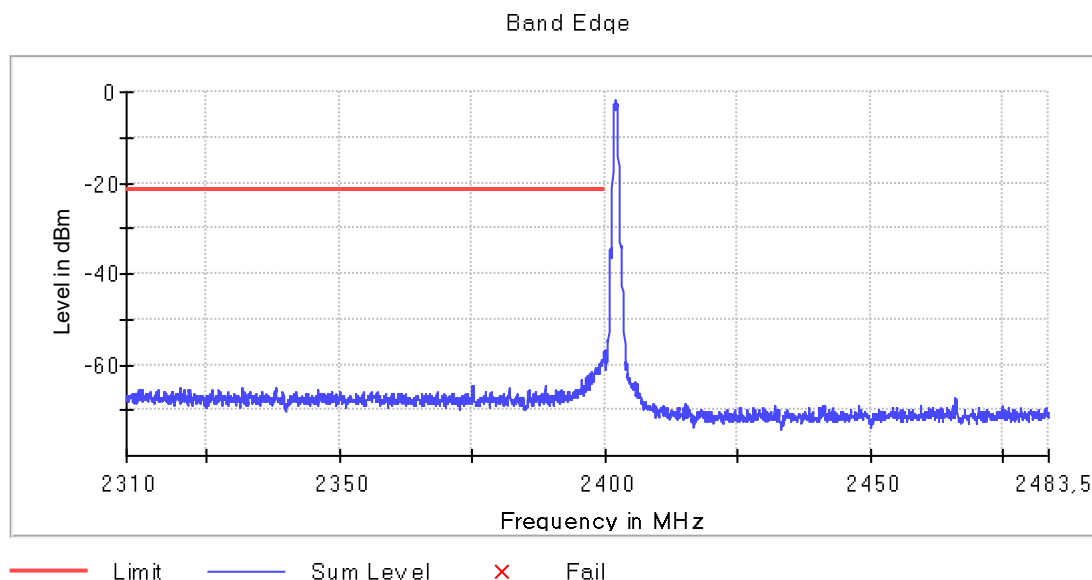
In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

### **2.5.6 Test Method**

The test was performed according to ANSI C63.10, sections 11.11



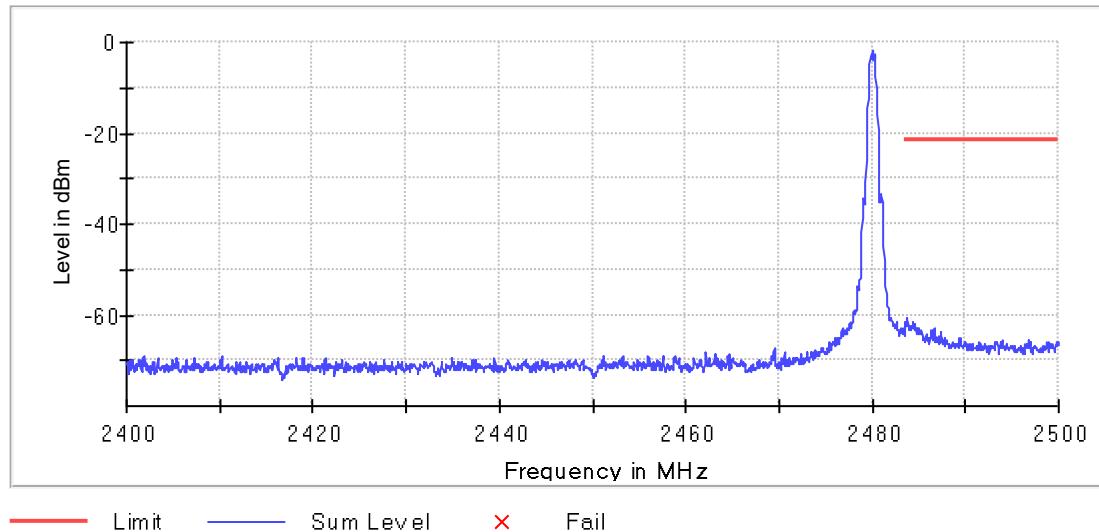
## 2.5.7 Test Results



| Setting               | Measurement 1    |                | Measurement 2    |                |
|-----------------------|------------------|----------------|------------------|----------------|
|                       | Instrument value | Target value   | Instrument value | Target value   |
| Start Frequency       | 2.31000 GHz      | 2.31000 GHz    | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.40000 GHz      | 2.40000 GHz    | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 90.000 MHz       | 90.000 MHz     | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1800             | ~ 1800         | 1670             | ~ 1670         |
| SweepTime             | 113.672 $\mu$ s  | AUTO           | 94.727 $\mu$ s   | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           | FFT              | AUTO           |
| Preamp                | off              | off            | off              | off            |
| Stablemode            | Trace            | Trace          | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        | 0.50 dB          | 0.50 dB        |
| Run                   | 4 / max. 150     | max. 150       | 7 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        | 0.15 dB          | 0.50 dB        |



Band Edge



| Setting               | Measurement 1    |                | Measurement 2    |                |
|-----------------------|------------------|----------------|------------------|----------------|
|                       | Instrument value | Target value   | Instrument value | Target value   |
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    | 2.48350 GHz      | 2.48350 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    | 2.50000 GHz      | 2.50000 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     | 16.500 MHz       | 16.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         | 330              | ~ 330          |
| Sweeptime             | 94.727 µs        | AUTO           | 18.945 µs        | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           | FFT              | AUTO           |
| Preamp                | off              | off            | off              | off            |
| Stablemode            | Trace            | Trace          | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        | 0.50 dB          | 0.50 dB        |
| Run                   | 8 / max. 150     | max. 150       | 4 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              | 3 / 3            | 3              |
| Max Stable Difference | 0.12 dB          | 0.50 dB        | 0.00 dB          | 0.50 dB        |



## 2.5.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

| Instrument                   | Manufacturer    | Type No | TE No | Calibration Period (months) | Calibration Due |
|------------------------------|-----------------|---------|-------|-----------------------------|-----------------|
| Signal and spectrum analyser | Rohde & Schwarz | FSV40   | 20219 | 24                          | 2026-03-31      |
| Climatic test chamber        | ESPEC           | PL-4J   | 28958 | 12                          | 2026-09-06      |

**Table 15**



## **2.6 Spurious emissions**

### **2.6.1 Specification Reference**

FCC 47 CFR Part 15 C, Clause 15.205, 15.209, 15.247(d)  
ISED RSS-247, Clause 6.6  
ISED RSS-Gen, Clauses 8.9 and 8.10

### **2.6.2 Equipment under Test and Modification State**

VEAZY; S/N BLE DTM #3; Modification state 0

### **2.6.3 Date of Test**

2025-07-11 and 2026-01-27

### **2.6.4 Environmental Conditions**

|                     |       |
|---------------------|-------|
| Ambient Temperature | 24 °C |
| Relative Humidity   | 48 %  |

### **2.6.5 Specification Limits**

In any 100 kHz bandwidth outside the frequency band in which the device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power, based on either conducted or radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits is not required.

In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.



| General radiated emission limits: |                      |                            |                                     |                            |                                     |
|-----------------------------------|----------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------------|
| Frequency Range<br>(MHz)          | Test distance<br>(m) | Field strength             |                                     | Field strength             |                                     |
|                                   |                      | ( $\mu\text{A}/\text{m}$ ) | ( $\text{dB}\mu\text{A}/\text{m}$ ) | ( $\mu\text{V}/\text{m}$ ) | ( $\text{dB}\mu\text{V}/\text{m}$ ) |
| 0.009 – 0.49                      | 300                  | $6.37 / f$                 | $20*\lg(6.37 / f)$                  | $2400 / f$                 | $20*\lg(2400 / f)$                  |
| 0.49 – 1.705                      | 30                   | $63.7 / f$                 | $20*\lg(63.7 / f)$                  | $24000 / f$                | $20*\lg(24000 / f)$                 |
| 1.705 – 30                        | 30                   | 0.08                       | $20*\lg(0.08 / f)$                  | 30                         | $20*\lg(30 / f)$                    |
| 30 – 88                           | 3                    | ---                        | --                                  | 100                        | 40                                  |
| 88 – 216                          | 3                    | --                         | --                                  | 150                        | 43.5                                |
| 126 – 960                         | 3                    | --                         | --                                  | 200                        | 46                                  |
| above 960                         | 3                    | --                         | --                                  | 500                        | 54                                  |
| Note 1: $f$ in kHz                |                      |                            |                                     |                            |                                     |

**Table 16 General radiated emission limits**

At frequencies at or above 30 MHz, measurements may be performed at distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempts should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

## 2.6.6 Test Method

The test was performed according to ANSI C63.10, sections 11.11 and 11.12

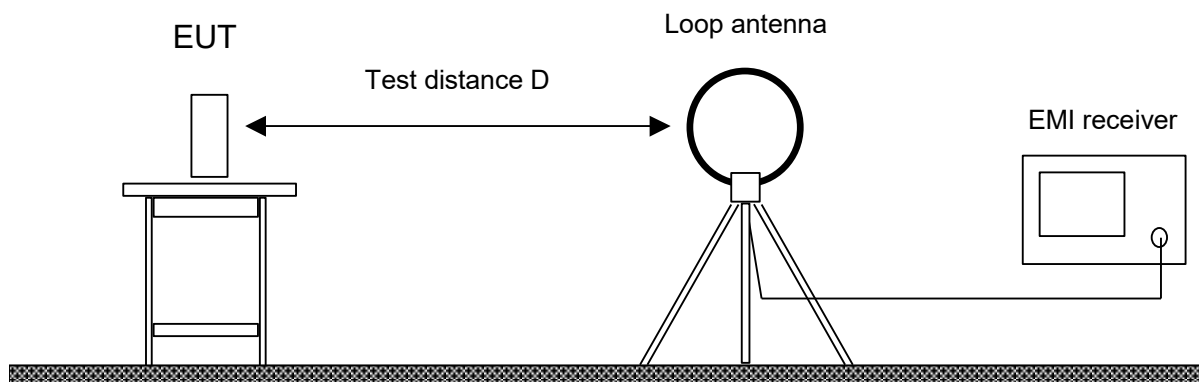
Prescans are performed in six positions of the EUT to get the full spectrum of emission caused by the EUT with the measuring antenna raised and lowered from 1 m to 4 m with vertical and horizontal polarisation to find the combination of table position, antenna height and antenna polarisation for the maximum emission levels.

Data reduction is applied to these results to select those levels having less margin than 10 dB or exceeding the limit using subranges and limited number of maximums.

Further maximisation for adjusting the maximum position is following.

Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

### 2.6.6.1 Frequency range 9 kHz – 30 MHz

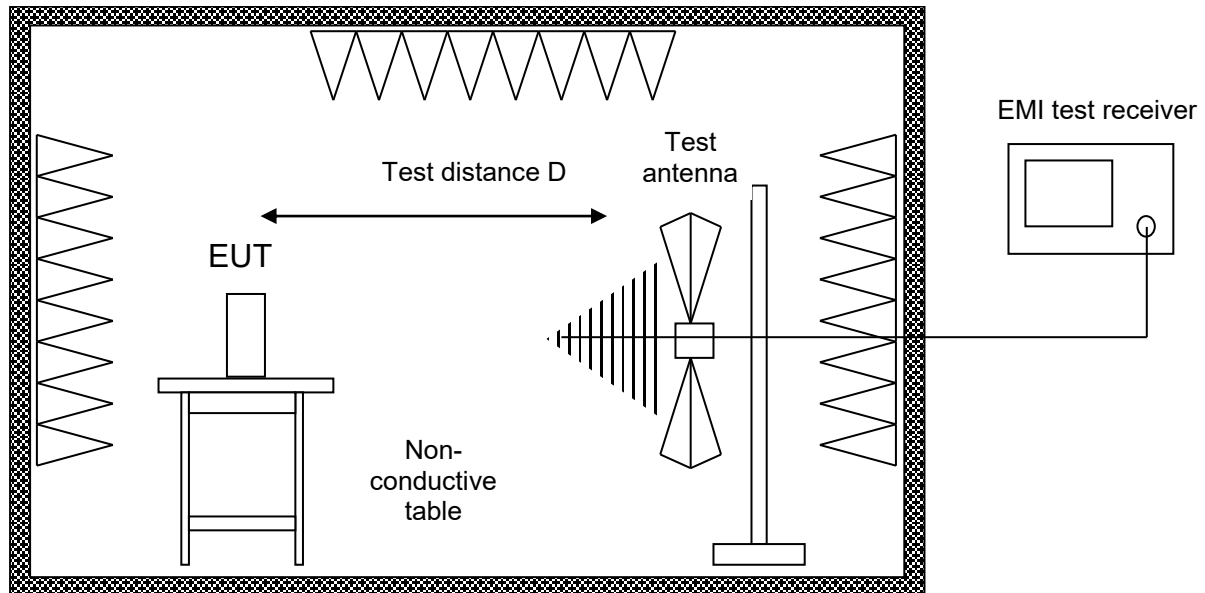


The EUT was placed on a non-conductive table, 0.8 m above the ground.

Radiated emissions in the frequency 9 kHz – 30 MHz is measured within a semi-anechoic room with an active loop antenna with the measurement detector set to peak. In addition in the frequency range 9 kHz to 490 kHz also an average detector was used. The measurement bandwidth of the receiver was set to 300 Hz in the frequency range 9 kHz to 150 kHz and 10 kHz in the frequency range 150 kHz to 30 MHz. Prescans were performed in six positions of the EUT.

For final measurements the detector was set to CISPR quasi-peak and in addition to CISPR average in the frequency range 9 kHz to 490 kHz with a resolution bandwidth 200 Hz in the frequency range 9 kHz to 150 kHz and 9 kHz in the frequency range 150 kHz to 30 MHz. Final tests were performed immediately after a final frequency and zoom (for drifting disturbances) and maximum adjustment.

### 2.6.6.2 Frequency range 30 MHz – 1 GHz



Alternate test site (semi anechoic room)

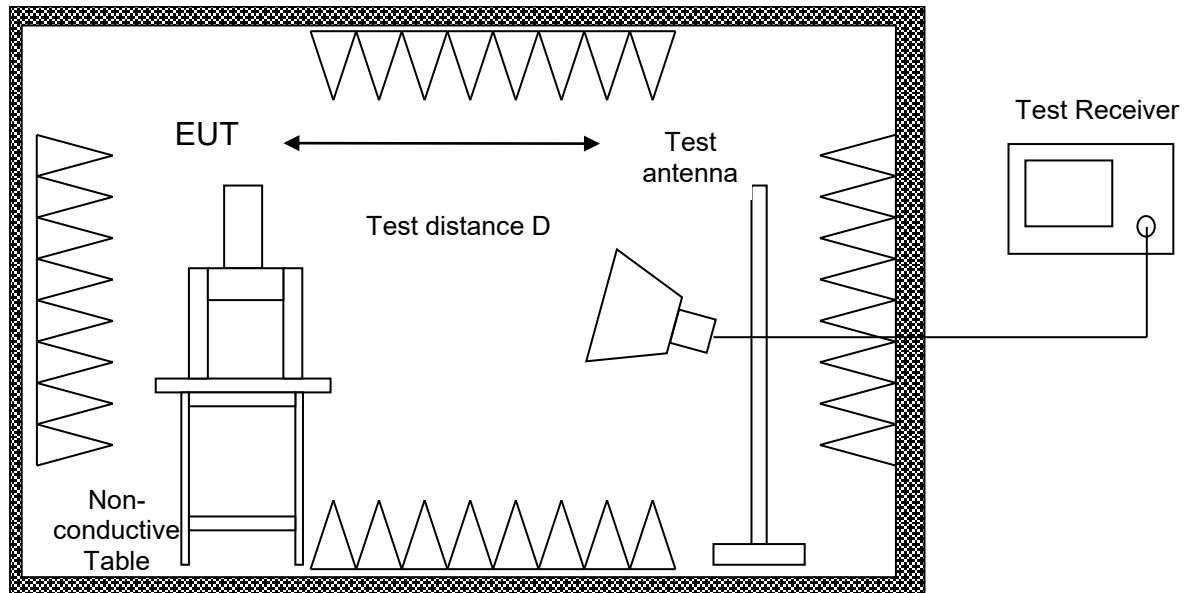
The EUT was placed on a non-conductive table, 0.8 m above the ground plane

Radiated emissions in the frequency range 30 MHz – 1 GHz is measured within a semi-anechoic room with groundplane complying with the NSA requirements of ANSI C63.4. for alternative test sites. A linear polarised logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna") is used.

For prescan tests the test receiver is set to peak-detector with a bandwidth of 120 kHz.

With the measurement bandwidth of the test receiver set to 120 kHz CISPR quasi-peak detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.

### 2.6.6.3 Frequency range above 1 GHz



Fully anechoic room

The EUT was placed on a non-conductive table, 1.5 m above the ground plane

Radiated emission tests above 1 GHz are performed in a fully anechoic room with the  $S_{VSWR}$  requirements of ANSI C63.4. Measurements are performed both in the horizontal and vertical planes of polarisation using a test receiver with the detector function set to peak and average and the resolution bandwidth set to 1 MHz. Testing above 1 GHz is performed with horn antennas with the EUT in boresight of the antenna.

For prescan tests the test receiver is set to peak- and average-detector with a bandwidth of 1 MHz.

With the measurement bandwidth of the test receiver set to 1 MHz and peak- and CISPR average-detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.



## 2.6.7 Test Results

| <i>Frequency range</i> | <i>Limit applied</i> | <i>Test distance</i> |
|------------------------|----------------------|----------------------|
| 9 kHz – 30 MHz         | 15.209               | 3m                   |
| 30 MHz – 1 GHz         | 15.209; 15.247       | 3 m                  |
| 1 – 18 GHz             | 15.209; 15.247       | 1 n                  |

**Table 17**

### Sample calculation:

$$\text{Final Value (dB}\mu\text{V/m)} = \text{Reading Value (dB}\mu\text{V)} + (\text{Cable attenuation (dB)} \\ + \text{Antenna Transducer (dB(1/m)))}$$

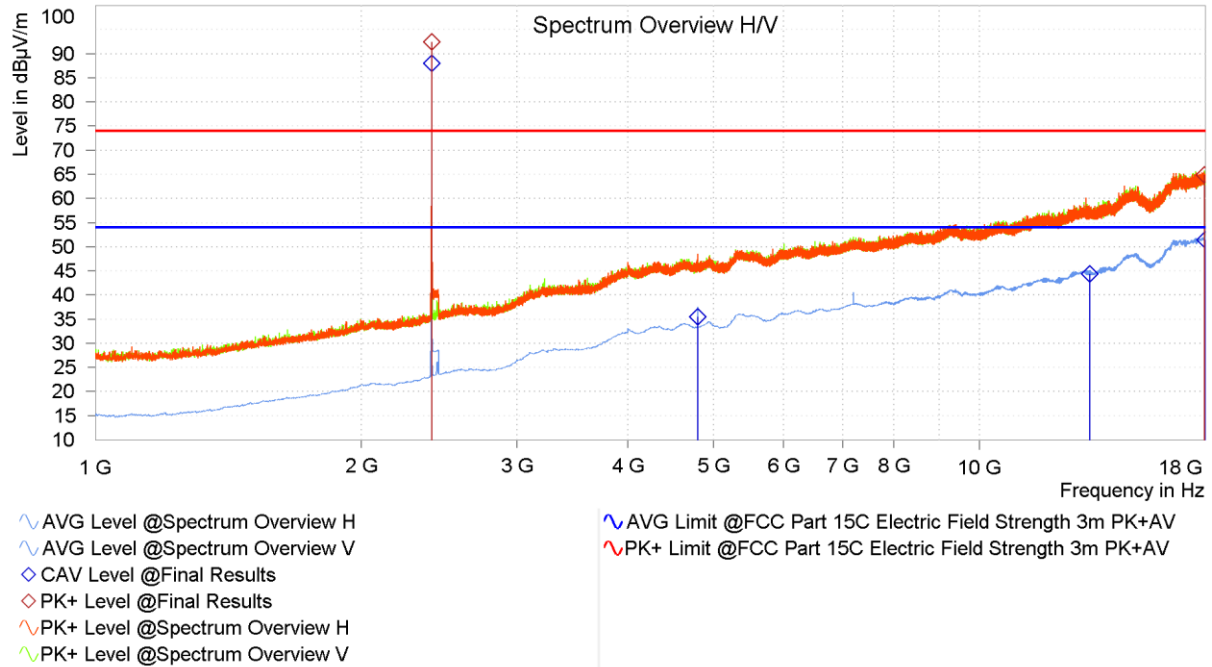
Additional correction of limit in the frequency range 9 – 490 kHz (300 m to 3 m): +80.0 dB

Additional correction of limit in the frequency range 490 kHz – 30 MHz (30 m to 3 m): +40.0 dB

Additional correction of limit in the frequency ranges above 1 GHz (3 m to 1 m): +9.54 dB



### 2.6.7.1 Test Results for 2402 MHz

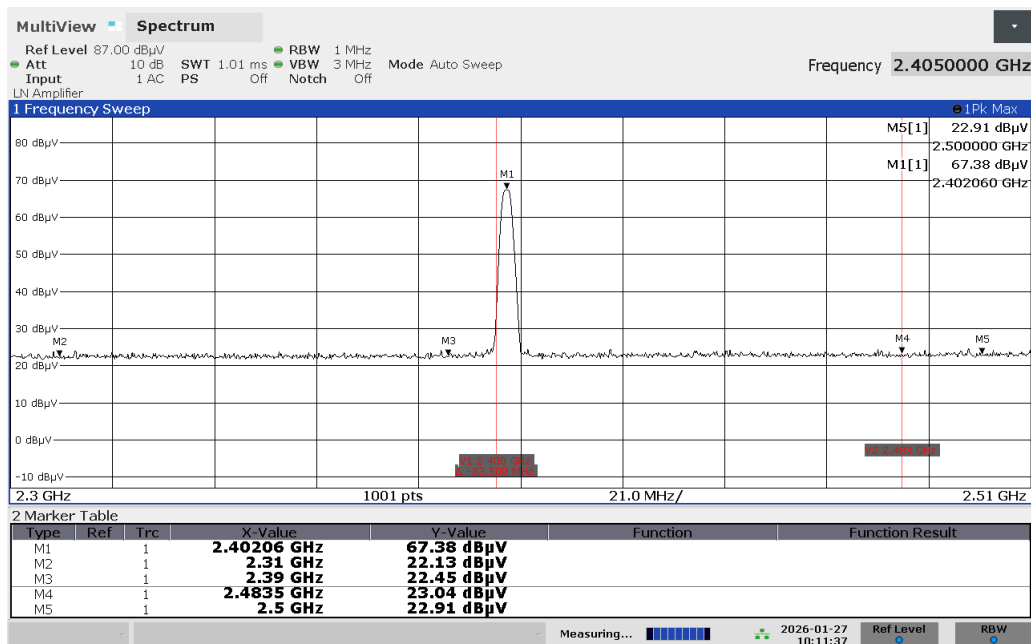


| Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | CAV Level [dBµV/m] | CAV: AVG Limit [dBµV/m] | CAV Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] | Meas. Time [s] |
|-----------------|--------------------|--------------------|-----------------|--------------------|-------------------------|-----------------|-----------------|--------------|---------------|--------------------|----------------|----------------|
| 2402.000        | 92.38              | --*                | --              | 87.99              | --*                     | --              | 25.03           | H            | 19            | 1.63               | 1000           | 15             |
| 4804.000        | ---                | ---                | ---             | 35.41              | 54.00                   | 18.59           | 32.57           | H            | 27            | 1.75               | 1000           | 15             |
| 13324.500       | ---                | ---                | ---             | 44.35              | 54.00                   | 9.65            | 42.80           | V            | -147          | 1.69               | 1000           | 15             |
| 17957.750       | 64.83              | 74.00              | 9.17            | ---                | ---                     | ---             | 49.37           | H            | -18           | 1.33               | 1000           | 15             |
| 18000.000       | ---                | ---                | ---             | 51.39              | 54.00                   | 2.61            | 49.51           | V            | 103           | 1.99               | 1000           | 15             |

\*: Carrier emission – not evaluated as spurious emission.



Product Service



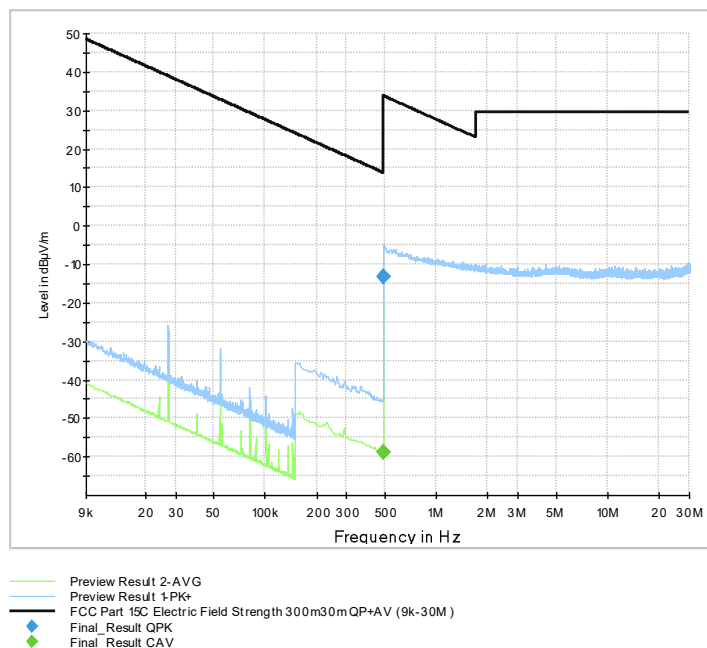
10:11:38 AM 01/27/2026



Product Service

## 2.6.7.2 Test Results for 2440 MHz

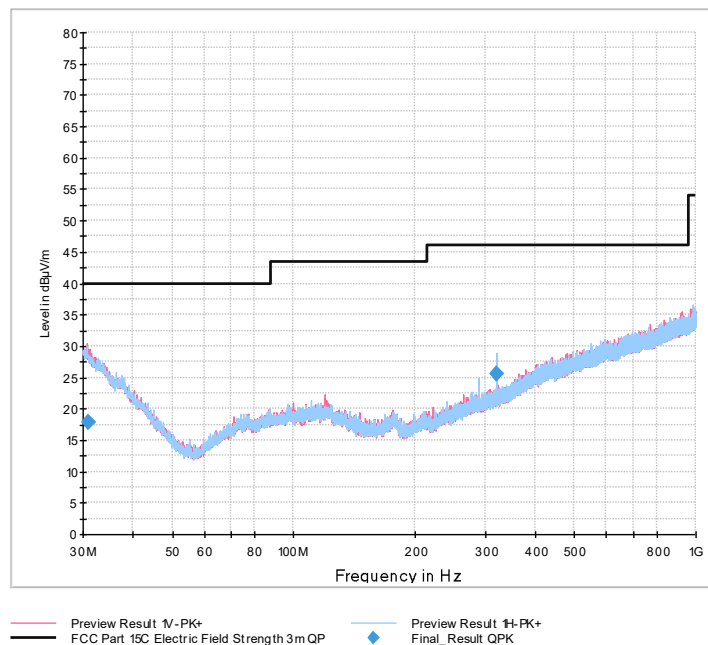
### EUT LED on top



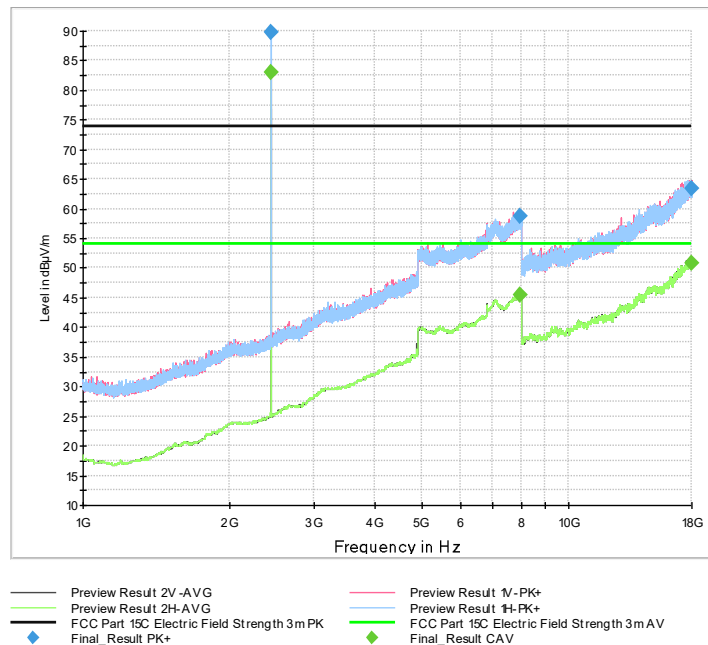
| Fre-<br>quency<br>MHz | Qua-<br>siPeak<br>dBμV/m | CAver-<br>age<br>dBμV/m | Limit<br>dBμV/m | Mar-<br>gin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB/m |
|-----------------------|--------------------------|-------------------------|-----------------|-------------------|---------------------|-----------------------|--------------|-----|---------------------|---------------|
| 0.490000              | ---                      | -58.94                  | 13.80           | 45.14             | 1000                | 9                     | 100          | H   | 90                  | -20.6         |
| 0.490000              | -13.08                   | ---                     | 33.80           | 46.88             | 1000                | 9                     | 100          | H   | 90                  | -20.6         |



Product Service

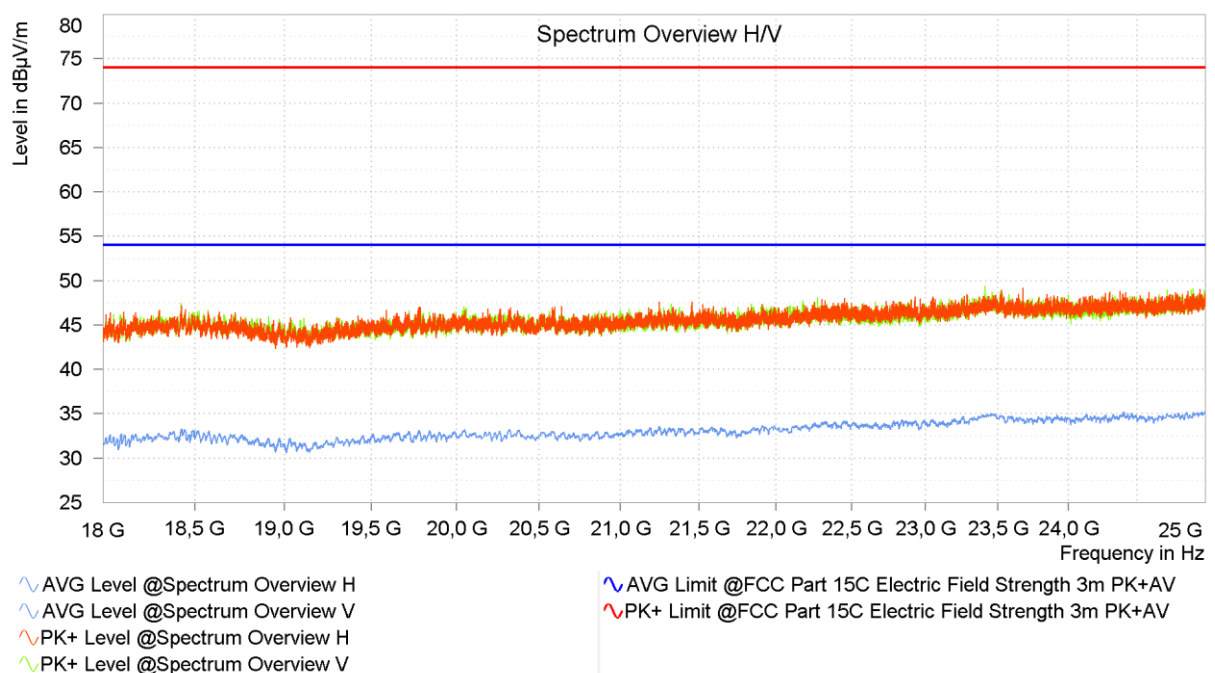


| Frequency<br>MHz | Qua-<br>siPeak<br>dBµV/m | Limit<br>dBµV/m | Margin<br>dB | Meas.<br>Time<br>ms | Bandwidth<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB/m |
|------------------|--------------------------|-----------------|--------------|---------------------|------------------|--------------|-----|---------------------|---------------|
| 30.960000        | 17.86                    | 40.00           | 22.14        | 1000                | 120              | 208          | V   | 20                  | 24.7          |
| 320.010000       | 25.49                    | 46.02           | 20.53        | 1000                | 120              | 100          | H   | -57                 | 19.8          |



| Frequency<br>MHz | Max-Peak<br>dBµV/m | CAverage<br>dBµV/m | Limit<br>dBµV/m | Margin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB |
|------------------|--------------------|--------------------|-----------------|--------------|---------------------|-----------------------|--------------|-----|---------------------|-------------|
| 2440.000000      | 89.80              | ---                | --*             | --           | 1000                | 1000                  | 137          | H   | 150                 | 24.3        |
| 2440.000000      | ---                | 82.92              | --*             | --           | 1000                | 1000                  | 137          | H   | 150                 | 24.3        |
| 7952.250000      | 58.82              | ---                | 73.98           | 15.16        | 1000                | 1000                  | 180          | H   | 177                 | 36.2        |
| 7952.250000      | ---                | 45.36              | 53.98           | 8.62         | 1000                | 1000                  | 180          | H   | 177                 | 36.2        |
| 18000.000000     | ---                | 50.77              | 53.98           | 3.21         | 1000                | 1000                  | 218          | V   | 150                 | 48.9        |
| 18000.000000     | 63.49              | ---                | 73.98           | 10.48        | 1000                | 1000                  | 218          | V   | 150                 | 48.9        |

\*: Carrier emission – not evaluated as spurious emission.



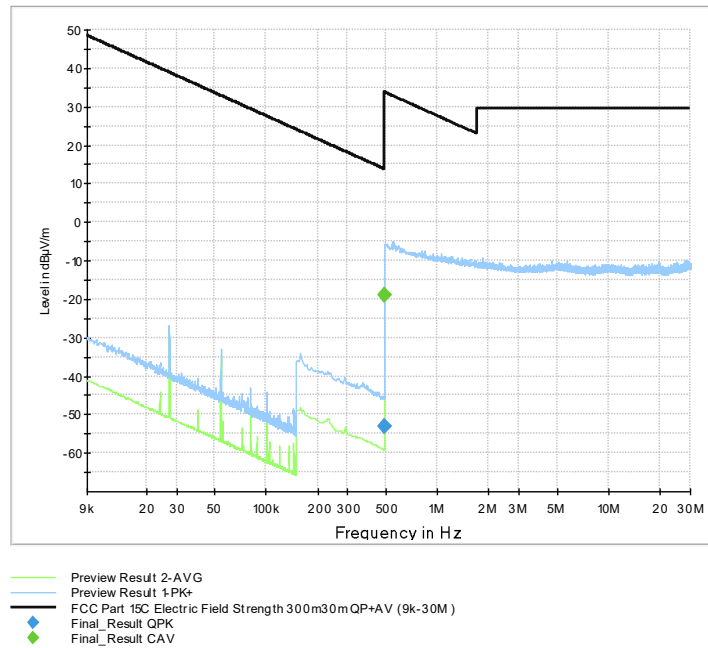


Product Service



Product Service

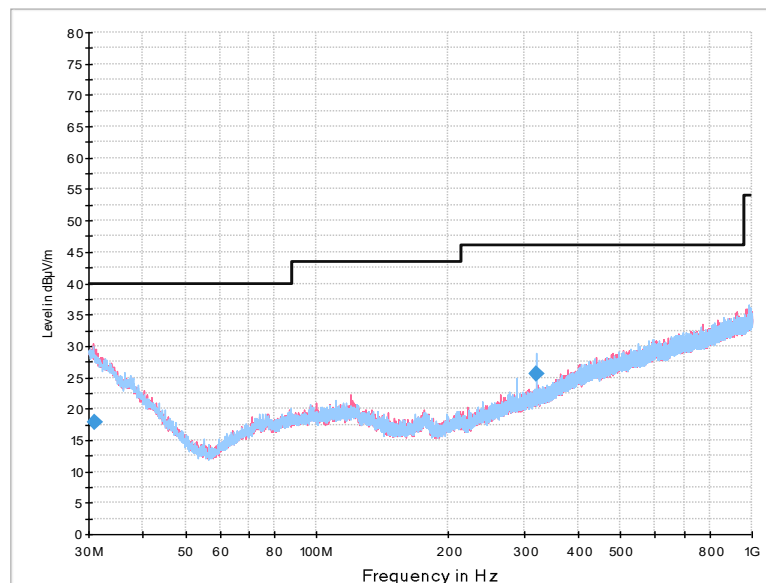
## EUT USB on top:



| Fre-<br>quency<br>MHz | Qua-<br>siPeak<br>dBµV/m | CAver-<br>age<br>dBµV/m | Limit<br>dBµV/m | Mar-<br>gin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB/m |
|-----------------------|--------------------------|-------------------------|-----------------|-------------------|---------------------|-----------------------|--------------|-----|---------------------|---------------|
| 0.490000              | ---                      | -19.11                  | 13.80           | 32.91             | 1000                | 9                     | 100          | V   | 61                  | -60.6         |
| 0.490000              | -53.21                   | ---                     | 33.80           | 87.01             | 1000                | 9                     | 100          | V   | 61                  | -60.6         |



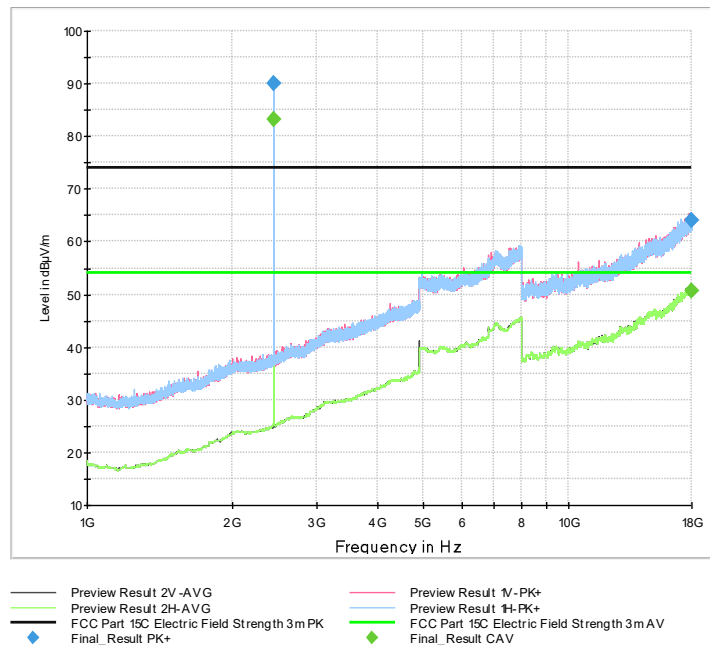
Product Service



Preview Result 1V-PK+  
 FCC Part 15C Electric Field Strength 3m QP

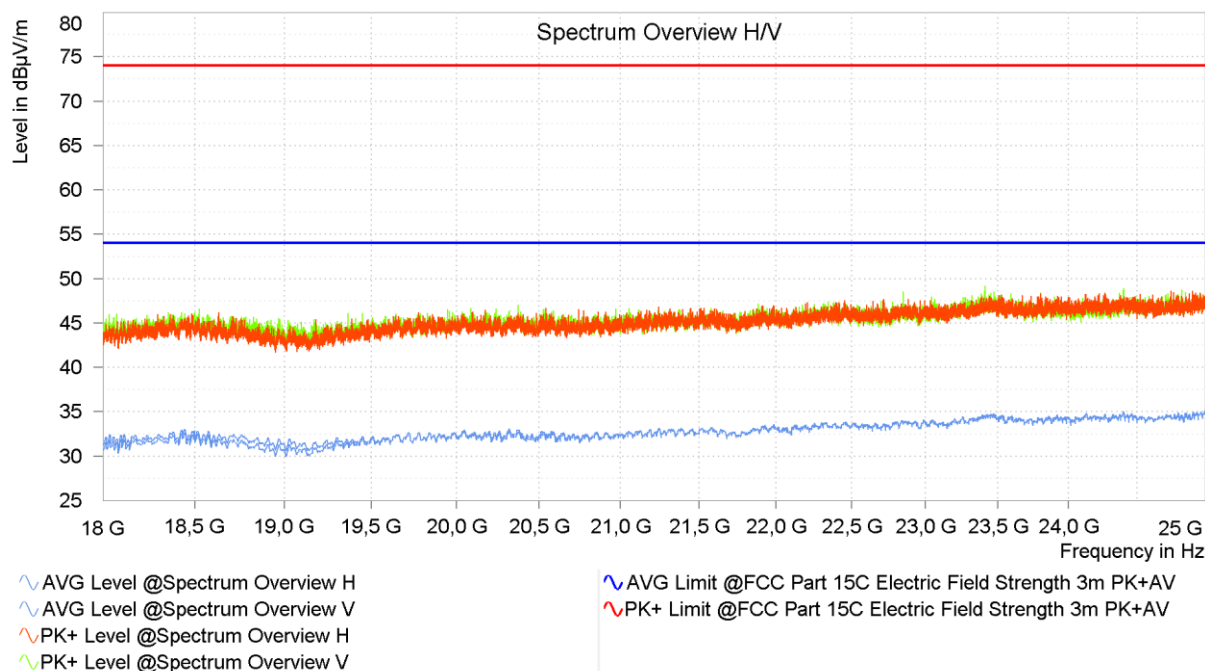
Preview Result 1H-PK+  
 Final\_Result QPK

| Frequency<br>MHz | QuasiPeak<br>dBµV/m | Limit<br>dBµV/m | Margin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB/m |
|------------------|---------------------|-----------------|--------------|---------------------|-----------------------|--------------|-----|---------------------|---------------|
| 30.960000        | 17.86               | 40.00           | 22.14        | 1000                | 120                   | 208          | V   | 20                  | 24.7          |
| 320.010000       | 25.49               | 46.02           | 20.53        | 1000                | 120                   | 100          | H   | -57                 | 19.8          |



| Frequency<br>MHz | Max-<br>Peak<br>dBµV/m | CAverage<br>dBµV/m | Limit<br>dBµV/m | Mar-<br>gin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB |
|------------------|------------------------|--------------------|-----------------|-------------------|---------------------|-----------------------|--------------|-----|---------------------|-------------|
| 2440.000000      | --                     | 83.26              | --*             | --                | 1000                | 1000                  | 127          | H   | 149                 | 24.3        |
| 2440.000000      | 90.14                  | --                 | --*             | --                | 1000                | 1000                  | 127          | H   | 149                 | 24.3        |
| 17961.500000     | --                     | 50.79              | 53.98           | 3.19              | 1000                | 1000                  | 132          | V   | 239                 | 48.7        |
| 17961.500000     | 63.98                  | --                 | 73.98           | 10.00             | 1000                | 1000                  | 132          | V   | 239                 | 48.7        |

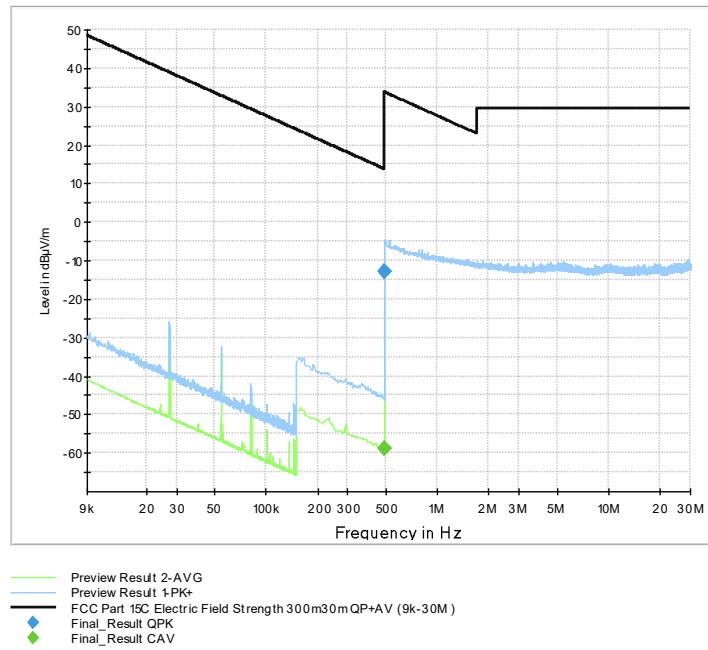
\*: Carrier emission – not evaluated as spurious emission.





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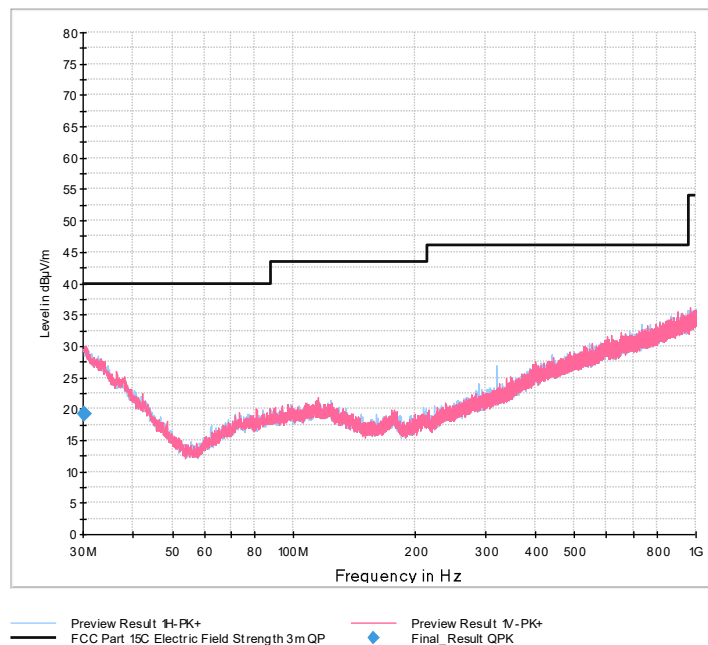
### EUT in upright position:



| Fre-<br>quency<br>MHz | Qua-<br>siPeak<br>dBµV/m | CAver-<br>age<br>dBµV/m | Limit<br>dBµV/m | Mar-<br>gin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB/m |
|-----------------------|--------------------------|-------------------------|-----------------|-------------------|---------------------|-----------------------|--------------|-----|---------------------|---------------|
| 0.490000              | --                       | -58.93                  | 13.80           | 72.73             | 1000                | 9                     | 100          | H   | 130                 | -20.6         |
| 0.490000              | -13.01                   | --                      | 33.80           | 46.81             | 1000                | 9                     | 100          | H   | 130                 | -20.6         |



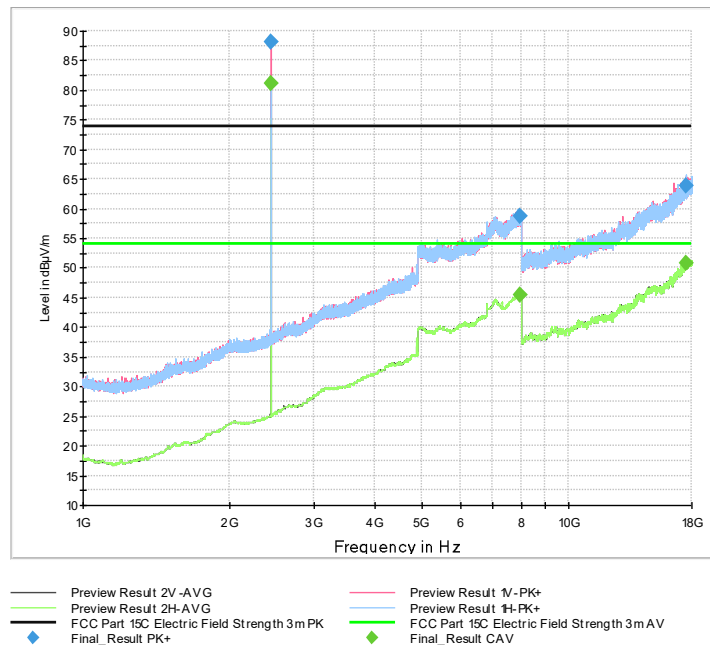
Product Service



| Frequency<br>MHz | QuasiPeak<br>dBµV/m | Limit<br>dBµV/m | Margin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB/m |
|------------------|---------------------|-----------------|--------------|---------------------|-----------------------|--------------|-----|---------------------|---------------|
| 30.330000        | 19.23               | 40.00           | 20.77        | 1000                | 120                   | 116          | V   | 101                 | 25.0          |

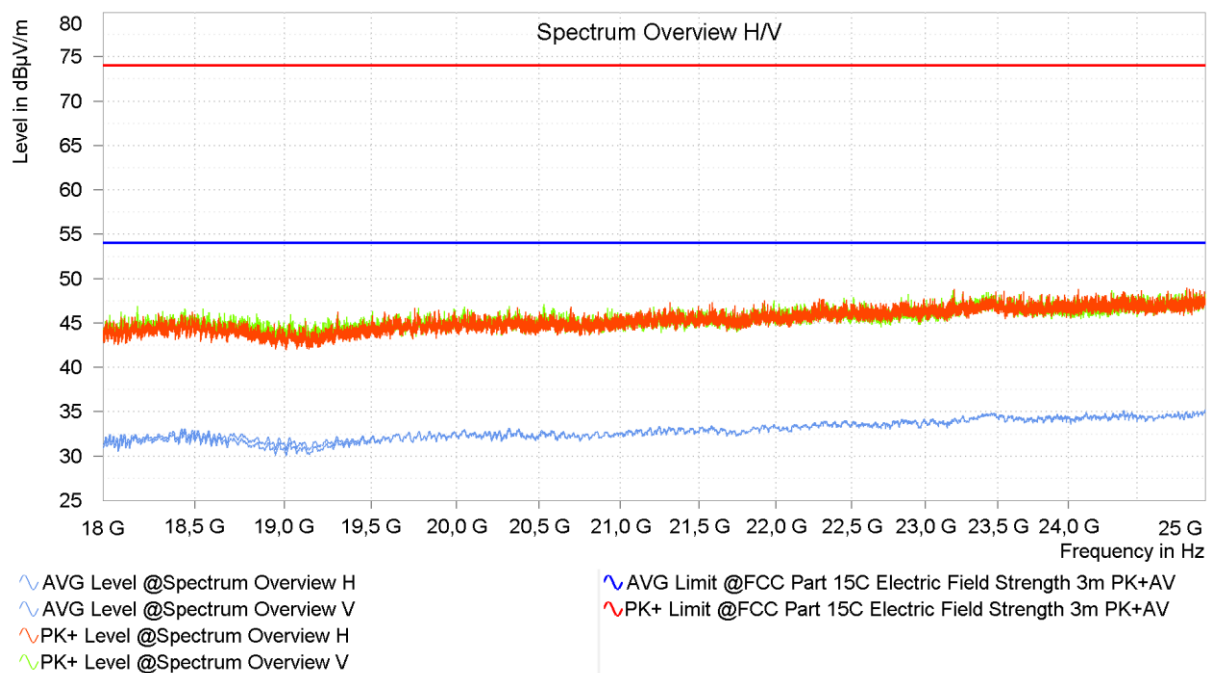


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| Frequency<br>MHz | Max-Peak<br>dBµV/m | CAverage<br>dBµV/m | Limit<br>dBµV/m | Margin<br>dB | Meas.<br>Time<br>ms | Band-<br>width<br>kHz | Height<br>cm | Pol | Azi-<br>muth<br>deg | Corr.<br>dB/m |
|------------------|--------------------|--------------------|-----------------|--------------|---------------------|-----------------------|--------------|-----|---------------------|---------------|
| 2440.000000      | --                 | 81.18              | --*             | --           | 1000                | 1000                  | 100          | V   | 195                 | 24.3          |
| 2440.000000      | 88.07              | --                 | --*             | --           | 1000                | 1000                  | 100          | V   | 195                 | 24.3          |
| 7949.250000      | --                 | 45.34              | 53.98           | 8.64         | 1000                | 1000                  | 400          | V   | 269                 | 36.2          |
| 7949.250000      | 58.82              | --                 | 73.98           | 15.16        | 1000                | 1000                  | 400          | V   | 269                 | 36.2          |
| 17574.750000     | --                 | 50.89              | 53.98           | 3.09         | 1000                | 1000                  | 104          | H   | -2                  | 48.4          |
| 17574.750000     | 63.99              | --                 | 73.98           | 9.99         | 1000                | 1000                  | 104          | H   | -2                  | 48.4          |

\*: Carrier emission – not evaluated as spurious emission.

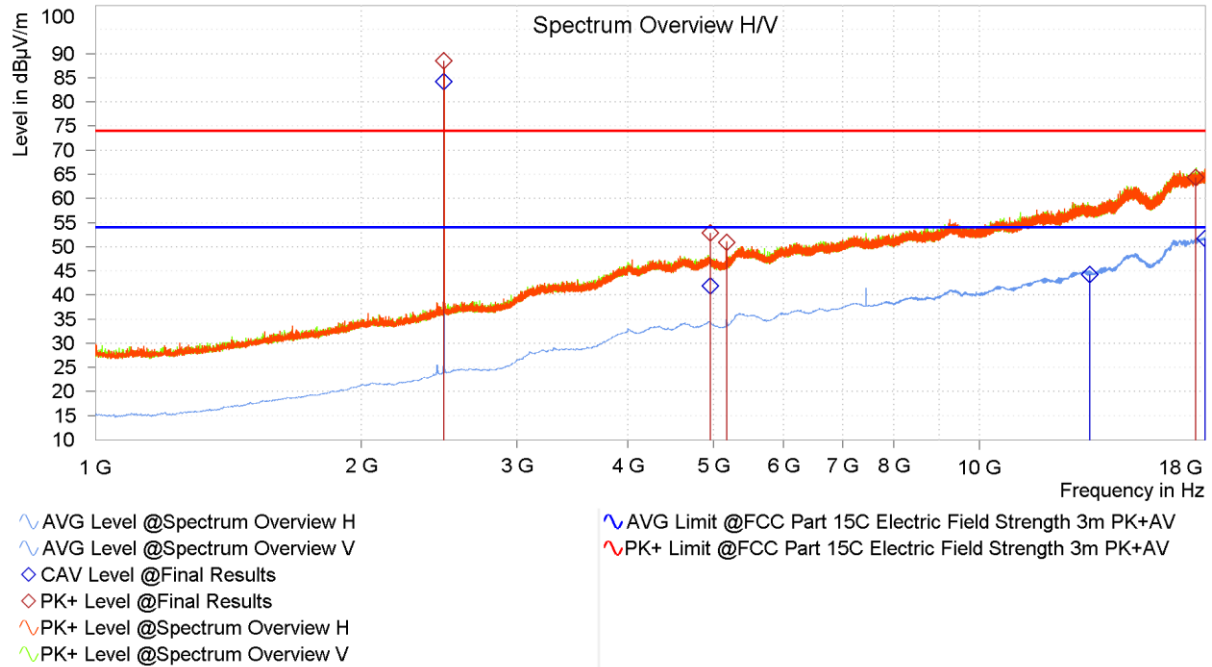




Product Service



### 2.6.7.3 Test Results for 2480 MHz

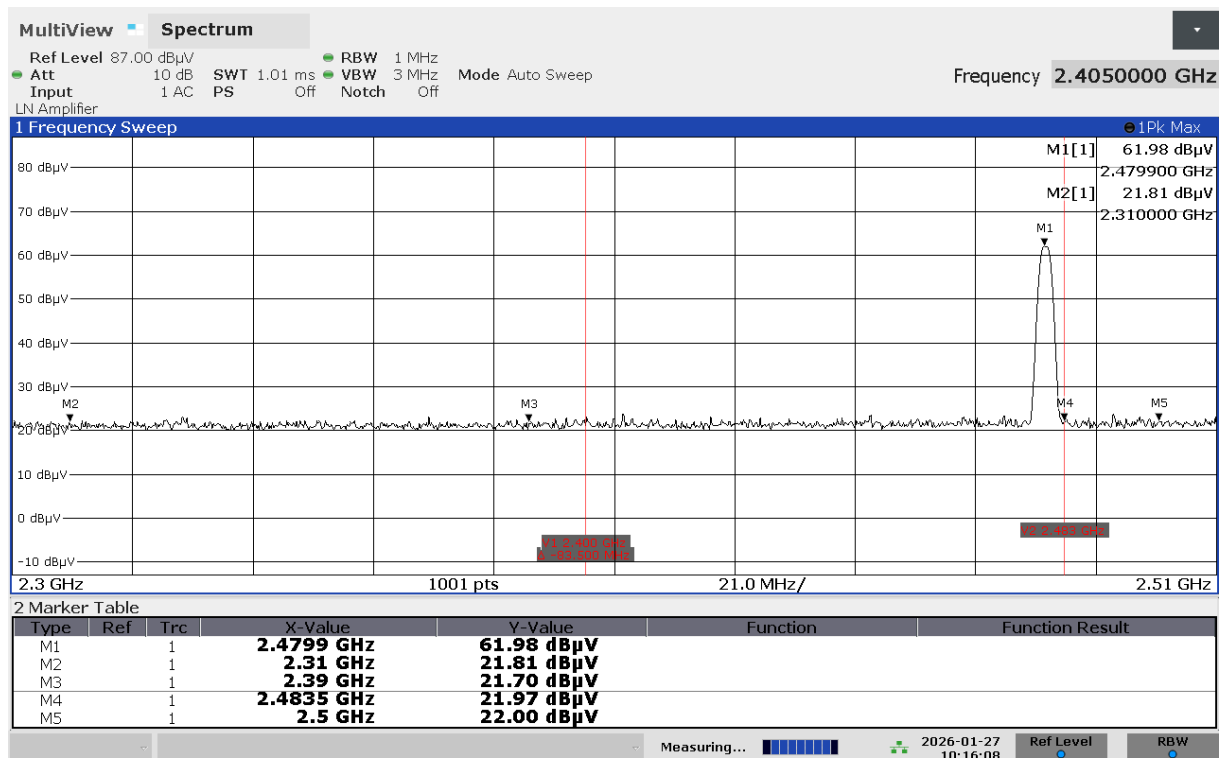


| Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | CAV Level [dBµV/m] | CAV: AVG Limit [dBµV/m] | CAV Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] | Meas. Time [s] |
|-----------------|--------------------|--------------------|-----------------|--------------------|-------------------------|-----------------|-----------------|--------------|---------------|--------------------|----------------|----------------|
| 2480.000        | 88.54              | --*                | --              | 84.14              | --*                     | --              | 25.60           | H            | 44            | 1.00               | 1000           | 15             |
| 4959.500        | 52.87              | 74.00              | 21.13           | ---                | ---                     | ---             | 33.10           | V            | 14            | 1.21               | 1000           | 15             |
| 4960.000        | ---                | ---                | ---             | 41.84              | 54.00                   | 12.16           | 33.10           | V            | 17            | 1.21               | 1000           | 15             |
| 5175.500        | 50.85              | 74.00              | 23.15           | ---                | ---                     | ---             | 32.53           | H            | 49            | 3.31               | 1000           | 15             |
| 13323.250       | ---                | ---                | ---             | 44.16              | 54.00                   | 9.84            | 42.80           | H            | -115          | 1.00               | 1000           | 15             |
| 17573.750       | 64.33              | 74.00              | 9.67            | ---                | ---                     | ---             | 49.08           | H            | -150          | 1.27               | 1000           | 15             |
| 17999.250       | ---                | ---                | ---             | 51.62              | 54.00                   | 2.38            | 49.51           | H            | -13           | 2.01               | 1000           | 15             |

\*: Carrier emission – not evaluated as spurious emission.



Product Service



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## 2.6.8 Test Location and Test Equipment

The test was carried out in semi anechoic room, cabin No. 11

| Instrument                     | Manufacturer                | Type No                            | TE No | Calibration Period (months) | Calibration Due |
|--------------------------------|-----------------------------|------------------------------------|-------|-----------------------------|-----------------|
| EMI test receiver              | Rohde & Schwarz             | ESW44                              | 39897 | 12                          | 31.03.2026      |
| Double ridged horn antenna     | Rohde & Schwarz             | HF907                              | 40089 | 24                          | 30.11.2026      |
| Semi anechoic room             | Frankonia                   | Cabin no. 11                       | 42961 | --                          | ---             |
| EMC measurement software       | Rohde & Schwarz             | EMC32 Emission K11 – V11.50        | 42986 | --                          | ---             |
| Horn Antenna with preamplifier | Rohde & Schwarz             | A-INFOMW LB-180400H-KF+ TS-LNA1840 | 43661 | 24                          | 31.01.2027      |
| ULTRALOG Antenna               | Rohde & Schwarz             | HL562E                             | 61486 | 36                          | 30.04.2026      |
| ELEKTRA measurement software   | Rohde & Schwarz             | ELEKTRA K11 Emission - V5.11.1     | 68262 | ---                         | ---             |
| Loop antenna                   | SCHWARZBECK MESS-ELEKTRONIK | FMZB 1519 C                        | 72526 | 36                          | 31.01.2028      |

**Table 18**



## **2.7 Temperature Stability**

### **2.7.1 Specification Reference**

ISED RSS-Gen, Clause 6.11, 8.11

### **2.7.2 Equipment under Test and Modification State**

VEAZY; S/N BLE DTM #3; Modification state 0

### **2.7.3 Date of Test**

2025-02-40

### **2.7.4 Environmental Conditions**

|                     |       |
|---------------------|-------|
| Ambient Temperature | 21 °C |
| Relative Humidity   | 29 %  |

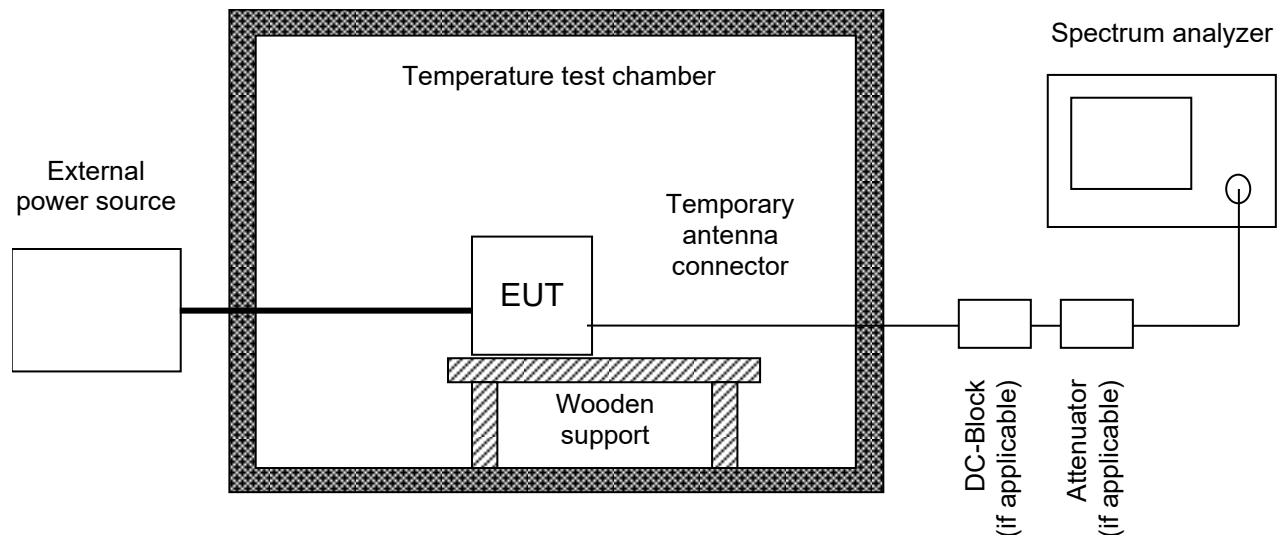
### **2.7.5 Specification Limits**

If the stability of the license-exempt radio apparatus is not specified in the applicable RSS, the fundamental emissions of the radio apparatus should be kept within at least the central 80 % of its permitted operating frequency band in order to minimize the possibility of out-of-band operation. In addition, its occupied bandwidth shall be entirely outside the restricted bands and the prohibited TV bands of 85 MHz – 72 MHz, 76 MHz – 88 MHz, 174 MHz – 216 MHz, and 470 MHz – 602 MHz, unless otherwise indicated.



## 2.7.6 Test Method

The test was performed according to ANSI C63.10, section 6.8.



The frequency tolerance of the carrier signal is measured over a temperature variation of  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of  $20^{\circ}\text{C}$ . Temperature and voltage range may vary if the manufacturer states another temperature or voltage range.

If the EUT provides an antenna connector the spectrum analyzer is connected to this port. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as a DC block and appropriate (50  $\Omega$ ) attenuators. In case where the EUT does not provide an antenna connector or a test fixture is used.

For battery operated equipment, the test is performed using a new battery. Alternatively, an external supply voltage can be used and is at least set to:

- The maximum battery voltage as delivered by a new battery or 115 % of the battery nominal voltage;
- The battery nominal voltage
- 85 % of the battery nominal voltage
- The battery operating end point voltage which shall be specified by the equipment manufacturer.

The EUT is operating providing an unmodulated carrier for frequency error tests. The peak detector of the spectrum analyzer is selected and resolution as well as video bandwidth are set to values appropriate to shape of the spectrum of the EUT. The frequency counter mode of the spectrum analyzer is used to maximize the accuracy of the measured frequency tolerance.

If an unmodulated carrier is not available a significant and stable point of the spectrum is selected and the span is reduced to a value that delivers an accuracy which shall be better than 1 % of the maximum frequency tolerance allowed for the carrier signal. This method may be performed as long as the margin to the frequency tolerance is larger than the uncertainty of the measured frequency tolerance.



## 2.7.7 Test Results

| <i>Temperature</i> |                |                |
|--------------------|----------------|----------------|
| -20 °C             | 2401.42822 MHz | 2480.52967 MHz |
| -10 °C             | 2401.53111 MHz | 2480.53256 MHz |
| 0 °C               | 2401.53401 MHz | 2480.53546 MHz |
| 10 °C              | 2401.53401 MHz | 2480.53546 MHz |
| 20 °C              | 2401.53111 MHz | 2480.53546 MHz |
| 30 °C              | 2401.52533 MHz | 2480.52967 MHz |
| 40 °C              | 2401.51954 MHz | 2480.52388 MHz |
| 50 °C              | 2401.51954 MHz | 2480.52098 MHz |

**Table 19**

## 2.7.8 Test Location and Test Equipment

The test was carried out in radio test laboratory

| Instrument                   | Manufacturer    | Type No | TE No | Calibra-<br>tion Pe-<br>riod<br>(months) | Calibration Due |
|------------------------------|-----------------|---------|-------|------------------------------------------|-----------------|
| Signal and spectrum analyser | Rohde & Schwarz | FSV40   | 20219 | 24                                       | 2026-03-31      |
| Climatic test chamber        | ESPEC           | PL-4J   | 28958 | 12                                       | 2026-09-06      |

**Table 20**



## 2.8 Conducted Emissions on Mains Terminals

### 2.8.1 Specification Reference

FCC 47 CFR Part 15 C, Clause 15.207  
ISED RSS-Gen, Clause 8.8

### 2.8.2 Equipment under Test and Modification State

VEAZY; S/N BLE DTM #3; Modification state 0

### 2.8.3 Date of Test

2025-02-40

### 2.8.4 Environmental Conditions

Ambient Temperature      21 °C  
Relative Humidity          29 %

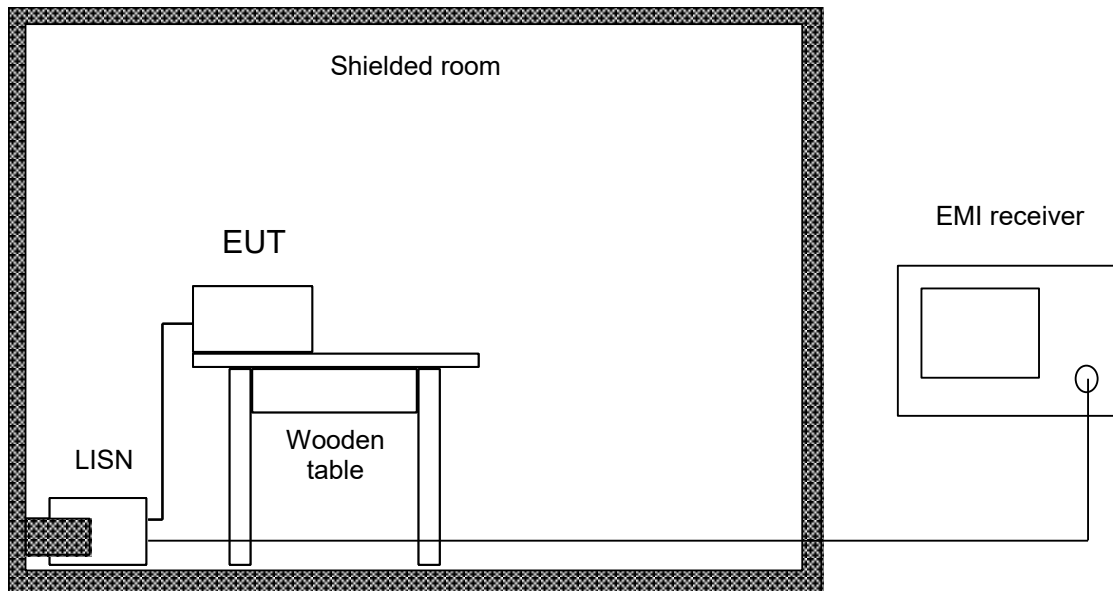
### 2.8.5 Specification Limits

| Required Specification Limits (Class B)                                    |                       |                   |                |
|----------------------------------------------------------------------------|-----------------------|-------------------|----------------|
| Line Under Test                                                            | Frequency Range (MHz) | Quasi-peak (dBμV) | Average (dBμV) |
| AC Power Port                                                              | 0.15 to 0.5           | 66 to 56*         | 56 to 46*      |
|                                                                            | 0.5 to 5              | 56                | 46             |
|                                                                            | 5 to 30               | 60                | 50             |
| Supplementary information: *Decreases with the logarithm of the frequency. |                       |                   |                |

Table 21 Emission limits

## 2.8.6 Test Method

The test was performed according to ANSI C63.10, section 6.2.



The EUT was placed on a non-conductive table 0.8 m above a reference ground plane and 0.4 m away from a vertical coupling plane. All power was connected to the EUT through an Line Impedance Stabilization Network (LISN). Conducted disturbance voltage measurements on mains lines were made at the output of the LISN. The LISN was placed 0.8 m from the boundary of the EUT and bounded to the reference ground plane. To simplify testing with quasi-peak and linear average (cisp-average) detector the following procedure is used:

First the whole spectrum of emission caused by the equipment under test (EUT) is recorded with the detectors set to peak and average using CISPR bandwidth of 10 kHz. After that all emission levels having less margin than 10 dB to or exceeding the average limit are retested with the detectors set to quasi-peak and average. If the average limit is kept with quasi-peak levels measurement with average detector is optional. In cases of emission levels between quasi-peak and average limit an additional measurement with average detector has to be performed.

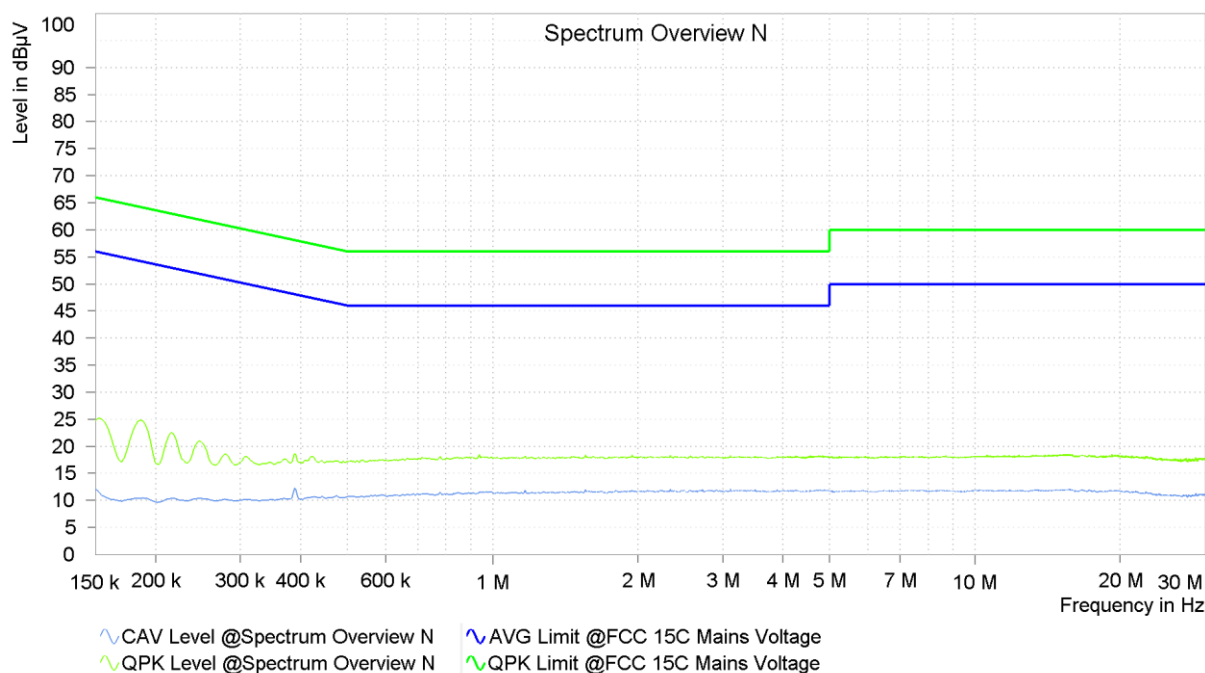
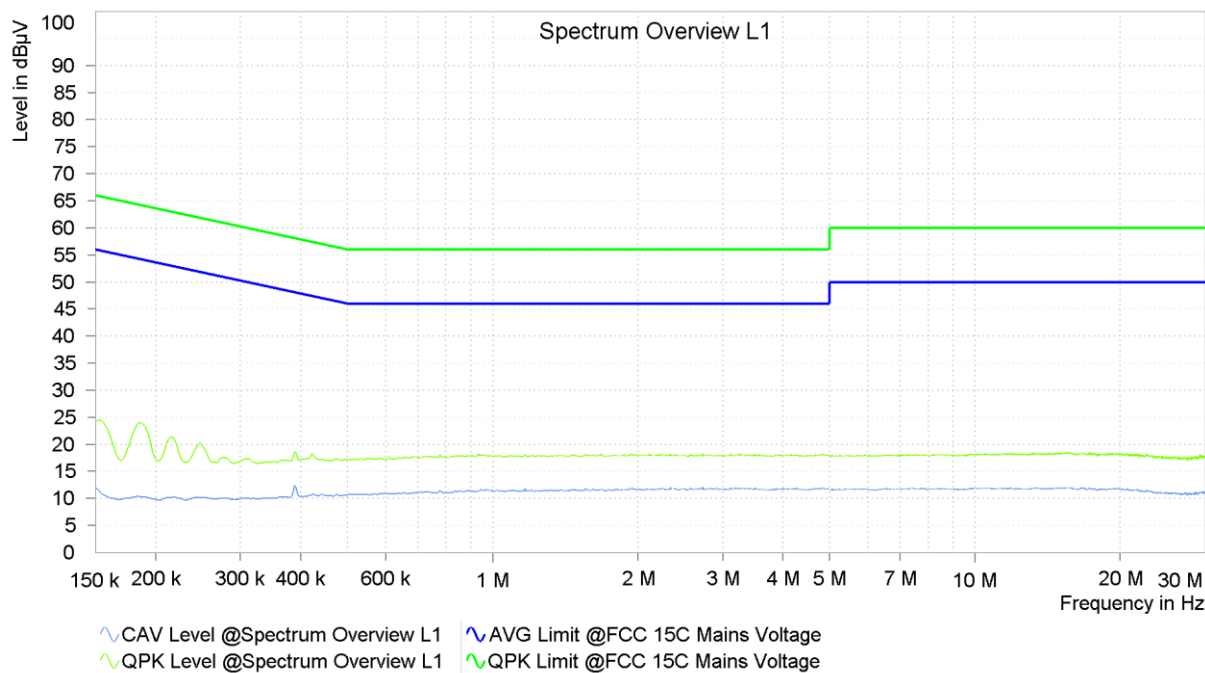
According to ANSI C63.10, section 6.2.5, testing of intentional radiators with frequencies below 30 MHz shall be performed using a suitable dummy load connected to the antenna output terminals. Otherwise the tests shall be performed with the integral or a representative antenna and, if adjustable, fully extended. Testing with a dummy load may be necessary to distinguish (unintentional) conducted emissions on the supply lines from (intentional) emissions radiated by the antenna and coupling directly to supply lines and/or LISN. The usage of a dummy load has to be stated in the appropriate test record(s) and notes should be added to clarify the test setup.



## 2.8.7 Test Results

### Sample calculation:

$$\text{Final Value (dB}\mu\text{V)} = \text{Reading Value (dB}\mu\text{V)} + (\text{Cable attenuation (dB)} + \text{LISN Transducer (dB)})$$



All emissions show more than 15 dB margin to the limits. No final measurements were taken.



## 2.8.8 Test Location and Test Equipment

The test was carried out in shielded room, cabin No. 9

| Instrument               | Manufacturer       | Type No                             | TE No | Calibra-<br>tion Pe-<br>riod<br>(months) | Calibration Due |
|--------------------------|--------------------|-------------------------------------|-------|------------------------------------------|-----------------|
| Shielded room            | Albatross Projects | Cabin No. 9                         | 21083 | ---                                      | ---             |
| V-Network                | Rohde & Schwarz    | ENV216                              | 39908 | 12                                       | 2026-07-31      |
| EMI test receiver        | Rohde & Schwarz    | EPL1000                             | 51462 | 12                                       | 2026-07-31      |
| EMC measurement software | Rohde & Schwarz    | ELEKTRA K9<br>Emission –<br>V5.11.1 | 68260 | ---                                      | ---             |

**Table 22**



### 3 Measurement Uncertainty

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

| <i>Radio Interference Emission Testing</i>                                                                                                                                                                           |           |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------|
| <i>Test Name</i>                                                                                                                                                                                                     | <i>kp</i> | <i>Expanded Uncertainty</i> |
| Conducted Voltage Emission                                                                                                                                                                                           |           |                             |
| 9 kHz to 150 kHz (50Ω/50μH AMN)                                                                                                                                                                                      | 2         | ± 3.8 dB                    |
| 150 kHz to 30 MHz (50Ω/50μH AMN)                                                                                                                                                                                     | 2         | ± 3.4 dB                    |
| 100 kHz to 200 MHz (50Ω/5μH AMN)                                                                                                                                                                                     | 2         | ± 3.6 dB                    |
| Discontinuous Conducted Emission                                                                                                                                                                                     |           |                             |
| 9 kHz to 150 kHz (50Ω/50μH AMN)                                                                                                                                                                                      | 2         | ± 3.8 dB                    |
| 150 kHz to 30 MHz (50Ω/50μH AMN)                                                                                                                                                                                     | 2         | ± 3.4 dB                    |
| Conducted Current Emission                                                                                                                                                                                           |           |                             |
| 9 kHz to 200 MHz                                                                                                                                                                                                     | 2         | ± 3.5 dB                    |
| Magnetic Fieldstrength                                                                                                                                                                                               |           |                             |
| 9 kHz to 30 MHz (with loop antenna)                                                                                                                                                                                  | 2         | ± 3.9 dB                    |
| 9 kHz to 30 MHz (large-loop antenna 2 m)                                                                                                                                                                             | 2         | ± 3.5 dB                    |
| Radiated Emission                                                                                                                                                                                                    |           |                             |
| 30 MHz to 300 MHz                                                                                                                                                                                                    | 2         | ± 4.9 dB                    |
| 300 MHz to 1 GHz                                                                                                                                                                                                     | 2         | ± 5.0 dB                    |
| 1 GHz to 6 GHz                                                                                                                                                                                                       | 2         | ± 4.6 dB                    |
| Test distance 10 m                                                                                                                                                                                                   |           |                             |
| 30 MHz to 300 MHz                                                                                                                                                                                                    | 2         | ± 4.9 dB                    |
| 300 MHz to 1 GHz                                                                                                                                                                                                     | 2         | ± 4.9 dB                    |
| The expanded uncertainty reported according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 is based on a standard uncertainty multiplied by a coverage factor of $k_p = 2$ , providing a level of confidence of $p = 95.45\%$ |           |                             |

**Table 23 Measurement uncertainty based on CISPR 16-4-2**



| <i>Radio Interference Emission Testing</i>                                                                                                                                                      |           |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------|
| <i>Test Name</i>                                                                                                                                                                                | <i>kp</i> | <i>Expanded Uncertainty</i> |
| Occupied Bandwidth                                                                                                                                                                              | 2         | ± 5 %                       |
| Conducted Power                                                                                                                                                                                 |           |                             |
| 9 kHz ≤ f < 30 MHz                                                                                                                                                                              | 2         | ± 1.0 dB                    |
| 30 MHz ≤ f < 1 GHz                                                                                                                                                                              | 2         | ± 1.5 dB                    |
| 1 GHz ≤ f ≤ 40 GHz                                                                                                                                                                              | 2         | ± 2.5 dB                    |
| 1 MS/s power sensor (TS8997)                                                                                                                                                                    | 2         | ± 1.5 dB                    |
| Occupied Bandwidth                                                                                                                                                                              | 2         | ± 5 %                       |
| Power Spectral Density                                                                                                                                                                          | 2         | ± 3.0 dB                    |
| Radiated Power                                                                                                                                                                                  |           |                             |
| 25 MHz – 6 GHz                                                                                                                                                                                  | 1.96      | ±4.4 dB                     |
| 1 GHz – 18 GHz                                                                                                                                                                                  | 1.96      | ±4.7 dB                     |
| 18 GHz – 40 GHz                                                                                                                                                                                 | 1.96      | ±4.9 dB                     |
| 40 GHz – 325 GHz                                                                                                                                                                                | 1.96      | ±6.1 dB                     |
| Conducted Spurious Emissions                                                                                                                                                                    | 2         | ± 3.0 dB                    |
| Radiated Spurious Emissions                                                                                                                                                                     | 2         | ± 6.0 dB                    |
| Voltage                                                                                                                                                                                         |           |                             |
| DC                                                                                                                                                                                              | 2         | ± 1.0 %                     |
| AC                                                                                                                                                                                              | 2         | ± 2.0 %                     |
| Time (automatic)                                                                                                                                                                                | 2         | ± 5 %                       |
| Frequency                                                                                                                                                                                       | 2         | ± 10 <sup>-7</sup>          |
| The expanded uncertainty reported according to ETSI TR 100 028:2001 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45% |           |                             |

**Table 24 Measurement uncertainty based on ETSI TR 100 028**

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 ( $U_{CISPR}$ ) and as specified in the test report below. This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.



| Test Name                              | Expanded Uncertainty |
|----------------------------------------|----------------------|
| Occupied Bandwidth                     | ±5 %                 |
| Conducted Power                        |                      |
| 9 kHz ≤ f < 30 MHz                     | ±1.0 dB              |
| 30 MHz ≤ f < 1 GHz                     | ±1.5 dB              |
| 1 GHz ≤ f ≤ 40 GHz                     | ±2.5 dB              |
| 1 MS/s power sensor (2.4 / 5 GHz band) | ±1.5 dB              |
| Power Spectral Density                 | ±3.0 dB              |
| Radiated Power                         |                      |
| 25 MHz – 26.5 GHz                      | ±6.0 dB              |
| 26.5 GHz – 66 GHz                      | ±8.0 dB              |
| 40 GHz – 325 GHz                       | ±10.0 dB             |
| Conducted Spurious Emissions           | ±3.0 dB              |
| Radiated Field Strength 9 kHz – 40 GHz | ±6.0 dB              |
| Voltage                                |                      |
| DC                                     | ± 1.0 %              |
| AC                                     | ± 2.0 %              |
| Time (automatic)                       | ± 5 %                |
| Frequency                              | ± 10 <sup>-7</sup>   |

**Table 25 Decision Rule: Maximum allowed measurement uncertainty**

End of Test Report