

| | | | | |
|---|---|---|--|--------------------------------|
| Prüfbericht-Nr.: Test report no.: | CN25OZJN 001 | Auftrags-Nr.: Order no.: | 326094824 | Seite 1 von 41 Page 1 of 41 |
| Kunden-Referenz-Nr.: Client reference no.: | 1288983 | Auftragsdatum: Order date: | 2025-02-12 | |
| Auftraggeber: Client: | IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden | | | |
| Prüfgegenstand: Test item: | Self-ballasted LED lamps | | | |
| Bezeichnung / Typ-Nr.: Identification / Type no.: | LED2410R5NA | | | |
| Auftrags-Inhalt: Order content: | Test Report | | | |
| Prüfgrundlage: Test specification: | FCC CFR47 Part 15, Subpart C Section 15.247 RSS-Gen Issue 5, Amendment 2, February 2021 RSS-247 Issue 3, August 2023 ANSI C63.10: 2013 | | | |
| Wareneingangsdatum: Date of sample receipt: | 2025-03-18 2025-03-27 | Refer to photo document. | | |
| Prüfmuster-Nr.: Test sample no.: | A003948647-001 A003957107-004 | | | |
| Prüfzeitraum: Testing period: | 2025-04-11 ~ 2025-06-02 | | | |
| Ort der Prüfung: Place of testing: | TÜV Rheinland (Shanghai) Co., Ltd. | | | |
| Prüflaboratorium: Testing laboratory: | TÜV Rheinland (Shanghai) Co., Ltd. | | | |
| Prüfergebnis*: Test result*: | Pass | | | |
| geprüft von: tested by: | <u>X Tian Lin Li</u> | genehmigt von: authorized by: | <u>X Hongfei Wu</u> | |
| Datum: Date: | 2025-06-19 <small>Signed by: Tianlin Li</small> | Datum: Date: | 2025-06-19 <small>Signed by: Hongfei Wu</small> | |
| Stellung / Position: | Sachverständige(r)/Expert | Stellung / Position: | Sachverständige(r)/Expert | |
| Sonstiges / Other: | FCC ID: FHO-LED2410R5NA IC: 10912A-LED2410R5NA HVIN: LED2410R5NA PMN: KAJPLATS This report is for Zigbee. | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery: | Prüfmuster vollständig und unbeschädigt Test item complete and undamaged | | | |
| * Legende: | P(ass) = entspricht o.g. Prüfgrundlage(n) | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar | N/T = nicht getestet |
| * Legend: | P(ass) = passed a.m. test specification(s) | F(ail) = failed a.m. test specification(s) | N/A = not applicable | N/T = not tested |
| Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. | | | | |

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Test report no.:

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Anmerkungen
Remarks

| | |
|----------|--|
| <p>1</p> | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| <p>3</p> | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| <p>4</p> | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 6dB & 99% BANDWIDTH

RESULT: Pass

5.1.3 OUTPUT POWER

RESULT: Pass

5.1.4 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS

RESULT: Pass

5.2.1 CONDUCTED EMISSION

RESULT: Pass

5.3.1 RADIATED BAND-EDGE

RESULT: Pass

5.3.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.
Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 930979.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 33038.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Equip. | Description | Model | Manufacturer | Due Date DD.MM.YYYY |
|---------------|------------------------------|-------------------------|---------------------|-------------------------------|
| EMC-C-196 | Wireless connectivity tester | CMW270 | Rohde & Schwarz | 23.08.2025 |
| EMC-C-302 | Signal generator | SMB100B (6 GHz) | Rohde & Schwarz | 10.12.2025 |
| EMC-C-303 | Vector Signal generator | SMW200A | Rohde & Schwarz | 10.12.2025 |
| EMC-C-304 | OSP | OSP-B157W8 | Rohde & Schwarz | 10.12.2025 |
| EMC-C-161 | Spectrum analyser | FSV40 | Rohde&Schwarz | 15.07.2025 |
| EMC-C-018 | Double ridged horn antenna | BBHA 9120 D | Schwarzbeck | 24.03.2026 |
| EMC-C-066 | EMI test receiver | ESCI | Rohde&Schwarz | 27.10.2025 |
| EMC-C-068 | Broadband horn antenna | BBHA 9170 | Schwarzbeck | 18.06.2028 |
| EMC-C-155 | BiLog antenna | CBL 6112D | Teseq | 24.03.2026 |
| EMC-C-175 | Preamplifier | EMC051845SE | EMCI Taiwan | 24.07.2025 |
| EMC-C-176 | Preamplifier | EMC184045SE | EMCI Taiwan | 24.07.2025 |
| EMC-C-001 | 3 m semi-anechoic chamber | SAC3 | Frankonia | 03.12.2026 |
| EMC-C-141 | Shielded enclosure | 10.055x3.605x3.000 | Frankonia | 08.11.2028 |
| EMC-C-195 | EMI test receiver | ESR3 | Rohde&Schwarz | 03.08.2025 |
| EMC-C-190 | Artificial mains network | ENV432 | Rohde&Schwarz | 11.10.2025 |
| software | | | | |
| EMC-S-036 | RF measurement software | WMS32-WB (11.40.00) | Rohde&Schwarz | NA |
| EMC-S-032 | EMI measurement software | EMC32-E+ (10.60.20) | Rohde&Schwarz | NA |
| EMC-S-028 | EMI measurement software | EMC32-MEB (10.60.20) | Rohde&Schwarz | NA |

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

| Measurement Type | Frequency | Uncertainty |
|---------------------------------|----------------|-------------|
| Antenna Port Conducted Emission | < 1GHz | ±0.39dB |
| | > 1GHz | ±0.68dB |
| Conducted Emission | 150kHz - 30MHz | ±2.33dB |
| Radiated Emission | 9kHz - 30MHz | ±2.93dB |
| | 30MHz - 1GHz | ±5.34dB |
| | > 1GHz | ±5.40dB |

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a LED lamp which supports Bluetooth, Zigbee and Thread.

The aim of this report is to evaluate RF character of Zigbee of the EUT.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

| General Description of EUT | |
|-----------------------------------|---|
| Product Name: | Self-ballasted LED lamps |
| Model No.: | LED2410R5NA |
| Operation Voltage: | AC 120V, 60Hz |
| Test Voltage: | DC 3.3V for RF conducted and radiated test AC 120V, 60Hz for conducted emission test |
| RF Technical: | 1) BLE 2) Zigbee 3) Thread |
| Technical Specification of Zigbee | |
| RF IC: | SiMG301 |
| Frequency Range: | 2405~2480MHz |
| Modulation Type: | OQPSK |
| Antenna Type: | Internal Slot Antenna |
| Antenna Gain: | -1.31 dBi (declared by client) |

Table 4: Operation Channel List

| RF Channel | Frequency [MHz] |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 11 | 2405 | 15 | 2425 | 19 | 2445 | 23 | 2465 |
| 12 | 2410 | 16 | 2430 | 20 | 2450 | 24 | 2470 |
| 13 | 2415 | 17 | 2435 | 21 | 2455 | 25 | 2475 |
| 14 | 2420 | 18 | 2440 | 22 | 2460 | 26 | 2480 |

3.3 Independent Operation Modes

Test frequencies are lowest channel: 2405 MHz, middle channel: 2445 MHz and highest channel: 2480 MHz

The basic operation modes are:

- A. Zigbee transmitting mode
- B. Radio operating mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

Test Software: sscm 5.13.1

Table 5: Power parameter value

| Mode | Power Parameter Setting Value |
|--------|-------------------------------|
| Zigbee | 10 |

4.3 Special Accessories and Auxiliary Equipment

Table 6: Auxiliary Equipment

| Equipment | Manufacturer | Model |
|----------------|--------------|--------------|
| Laptop | Lenovo | 21AJ-S57N0J |
| Mobile phone | Apple | iPhone 15 |
| Loudspeaker | Apple | HomePod mini |
| Remote control | IKEA | E2489 |

4.4 Countermeasures to achieve EMC Compliance

Null.

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Page 13 of 41**RSS-Gen 6.8 – Antenna Requirement**

Requirement: When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

Results:

| | |
|--|-----------------------|
| a) Antenna Type: | Internal Slot Antenna |
| b) Manufacture: | N/A |
| c) Model No.: | N/A |
| d) Gain with reference to an isotropic radiator: | -1.31 dBi |

Verdict: **PASS**

5.1.2 6dB & 99% Bandwidth

RESULT:**Pass**

Date of testing : 2025-05-26, 2025-05-28
Ambient temperature : 21.3°C, 21.1°C
Relative humidity : 51.2%, 50.4%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(a)(2)
RSS-247 Issue 3, August 2023, Clause 5.2(a)
RSS-Gen Issue 5, Amendment 2, February 2021, Clause
6.7
Test procedure : ANSI C63.10: 2013
Test voltage : DC 3.3V
Test modes applied : A

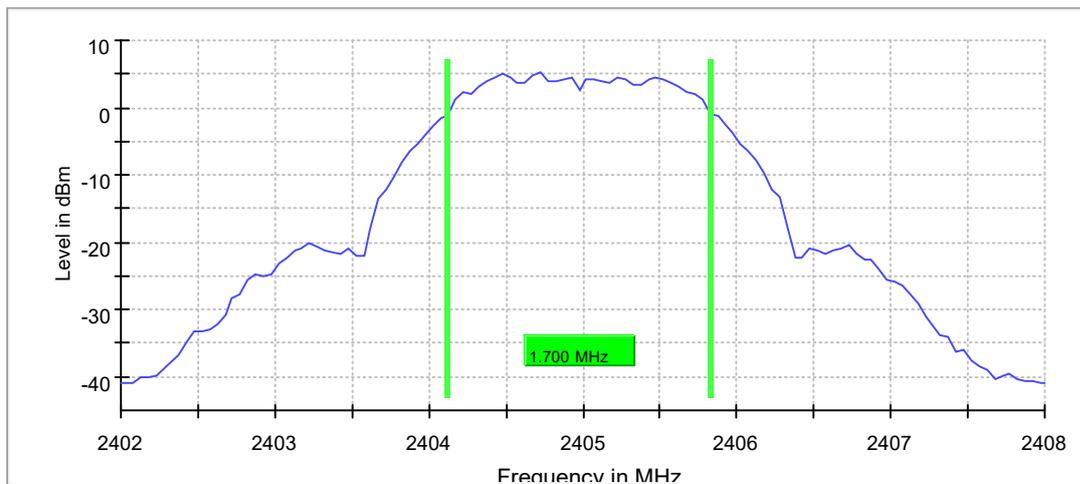
6dB Bandwidth, 2405MHz

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2405.000000 | 1.700000 | 0.500000 | --- | 2404.125000 | 2405.825000 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2405.000000 | 5.4 | PASS |

6 dB Bandwidth


Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.40200 GHz | 2.40200 GHz |
| Stop Frequency | 2.40800 GHz | 2.40800 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 120 | ~ 120 |
| Sweeptime | 18.984 µs | AUTO |
| Reference Level | 10.000 dBm | 10.000 dBm |
| Attenuation | 30.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 23 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.13 dB | 0.50 dB |

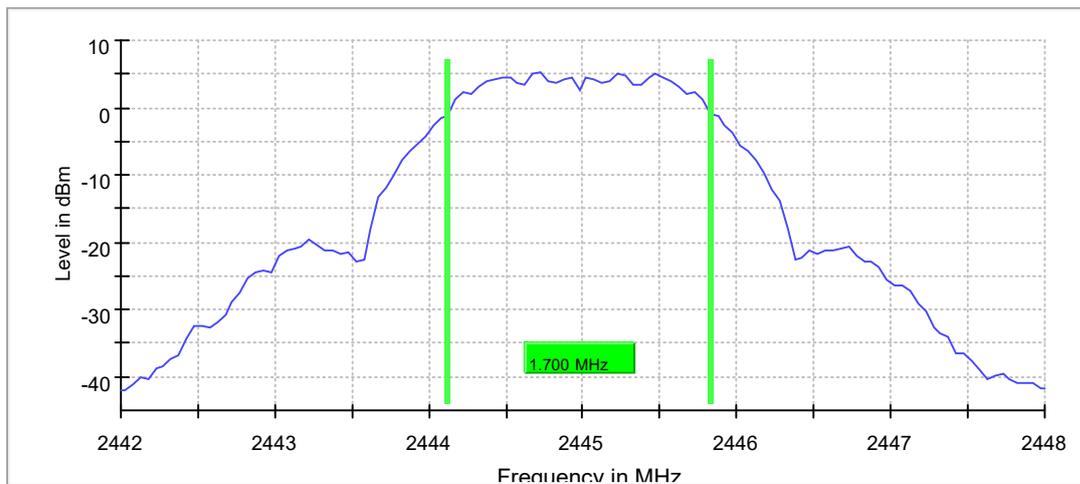
6dB Bandwidth, 2445MHz

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2445.000000 | 1.700000 | 0.500000 | --- | 2444.125000 | 2445.825000 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2445.000000 | 5.3 | PASS |

6 dB Bandwidth


Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.44200 GHz | 2.44200 GHz |
| Stop Frequency | 2.44800 GHz | 2.44800 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 120 | ~ 120 |
| Sweeptime | 18.984 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 21 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.15 dB | 0.50 dB |

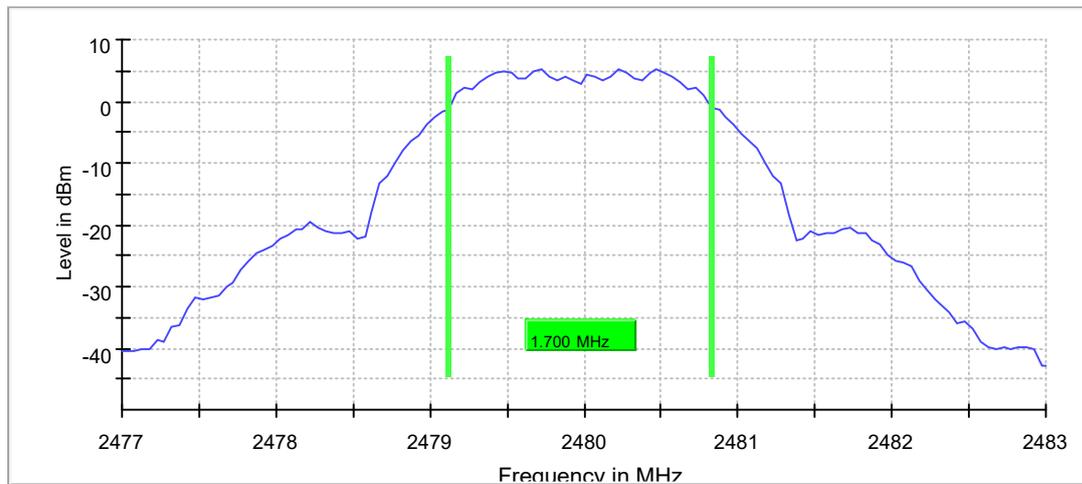
6dB Bandwidth, 2480MHz

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000 | 1.700000 | 0.500000 | --- | 2479.125000 | 2480.825000 |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2480.000000 | 5.3 | PASS |

6 dB Bandwidth


Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.47700 GHz | 2.47700 GHz |
| Stop Frequency | 2.48300 GHz | 2.48300 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 120 | ~ 120 |
| Sweptime | 18.984 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 35 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

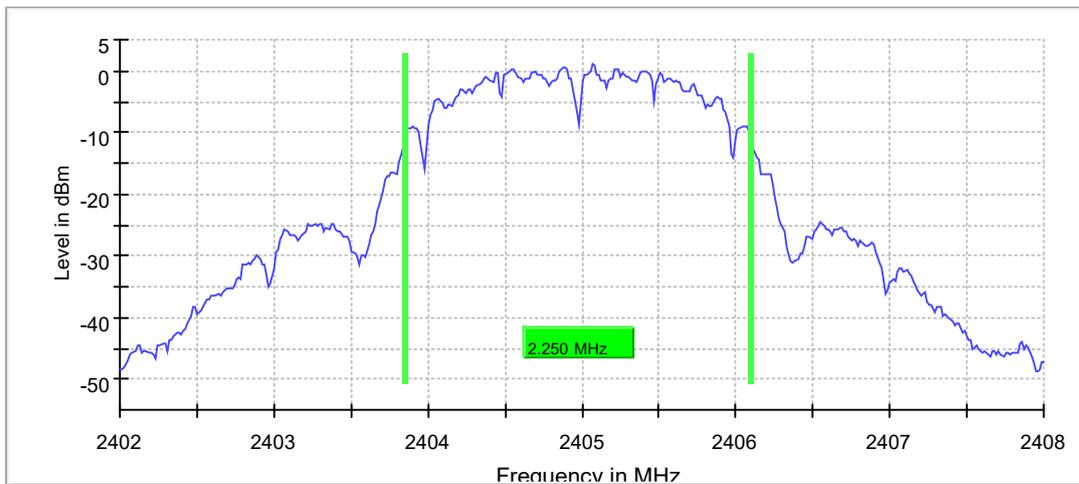
99% Occupied Channel Bandwidth, 2405MHz

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2405.000000 | 2.250000 | --- | --- | 2403.852500 | 2406.102500 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2405.000000 | PASS |

99 % Bandwidth


Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.40200 GHz | 2.40200 GHz |
| Stop Frequency | 2.40800 GHz | 2.40800 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 30.000 kHz | >= 30.000 kHz |
| VBW | 100.000 kHz | >= 90.000 kHz |
| SweepPoints | 400 | ~ 400 |
| Sweeptime | 63.216 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 22 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.12 dB | 0.30 dB |

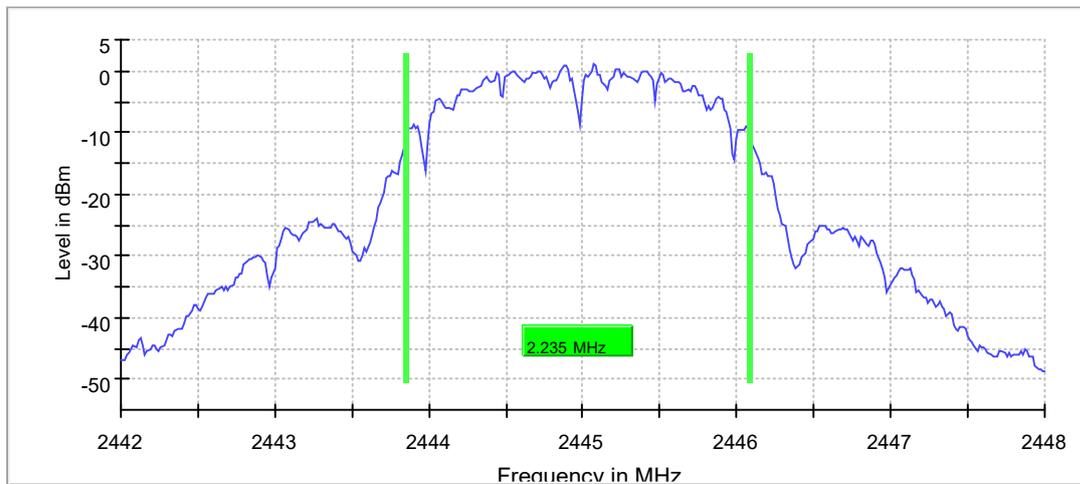
99% Occupied Channel Bandwidth, 2445MHz

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2445.000000 | 2.235000 | --- | --- | 2443.852500 | 2446.087500 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2445.000000 | PASS |

99 % Bandwidth


Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.44200 GHz | 2.44200 GHz |
| Stop Frequency | 2.44800 GHz | 2.44800 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 30.000 kHz | >= 30.000 kHz |
| VBW | 100.000 kHz | >= 90.000 kHz |
| SweepPoints | 400 | ~ 400 |
| Sweeptime | 63.216 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 18 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.21 dB | 0.30 dB |

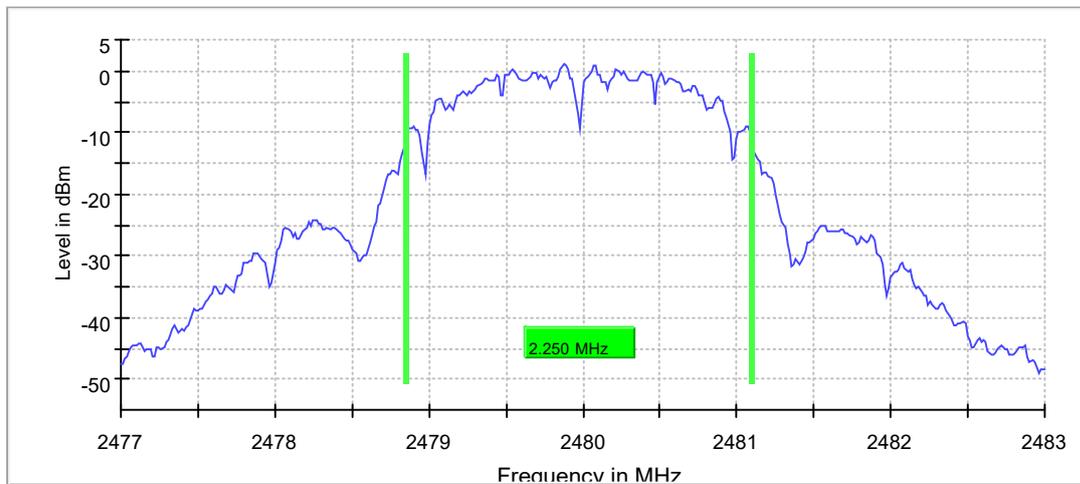
99% Occupied Channel Bandwidth, 2480MHz

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000 | 2.250000 | --- | --- | 2478.852500 | 2481.102500 |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000 | PASS |

99 % Bandwidth


Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.47700 GHz | 2.47700 GHz |
| Stop Frequency | 2.48300 GHz | 2.48300 GHz |
| Span | 6.000 MHz | 6.000 MHz |
| RBW | 30.000 kHz | >= 30.000 kHz |
| VBW | 100.000 kHz | >= 90.000 kHz |
| SweepPoints | 400 | ~ 400 |
| Sweeptime | 63.216 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 13 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.29 dB | 0.30 dB |

5.1.4 Power Spectral Density

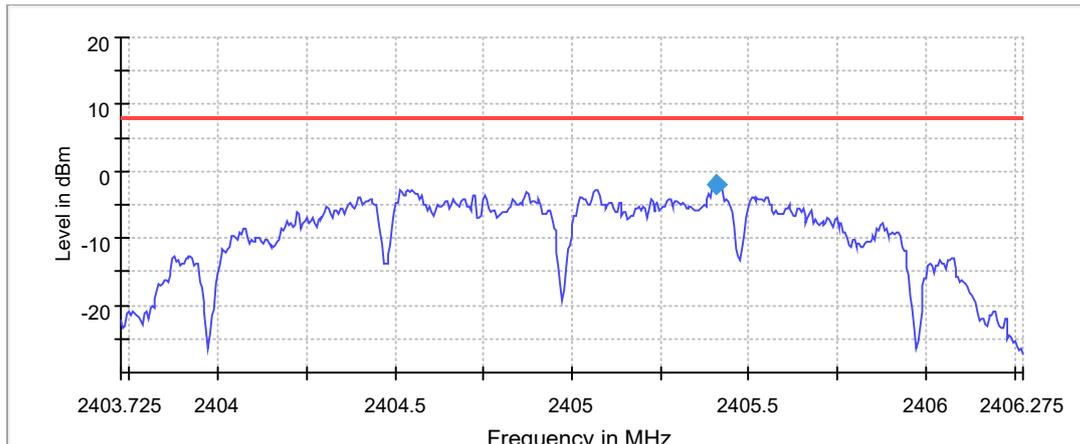
RESULT:**Pass**

Date of testing : 2025-05-26
Ambient temperature : 21.3°C
Relative humidity : 51.2%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(e)
RSS-247 Issue 3, August 2023, Clause 5.2(b)
Test procedure : ANSI C63.10: 2013
Test voltage : DC 3.3V
Test modes applied : A

Power Spectral Density, 2405MHz

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2405.000000 | 2405.407500 | -1.950 | 8.0 | PASS |

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

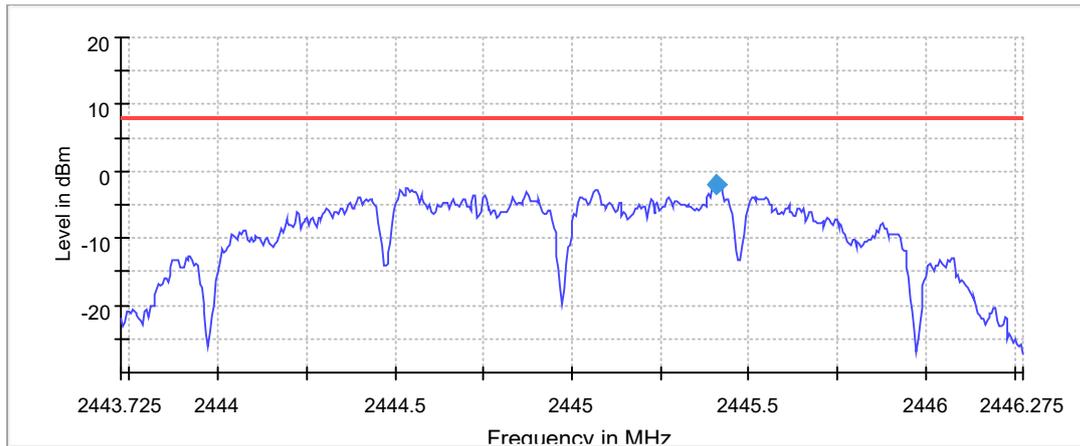
Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.40373 GHz | 2.40373 GHz |
| Stop Frequency | 2.40628 GHz | 2.40628 GHz |
| Span | 2.550 MHz | 2.550 MHz |
| RBW | 10.000 kHz | <= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 510 | ~ 510 |
| Sweeptime | 2.550 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 10 / max. 150 | max. 150 |
| Stable | 2 / 2 | 2 |
| Max Stable Difference | 0.31 dB | 0.50 dB |

Power Spectral Density, 2445MHz

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2445.000000 | 2445.407500 | -1.995 | 8.0 | PASS |

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

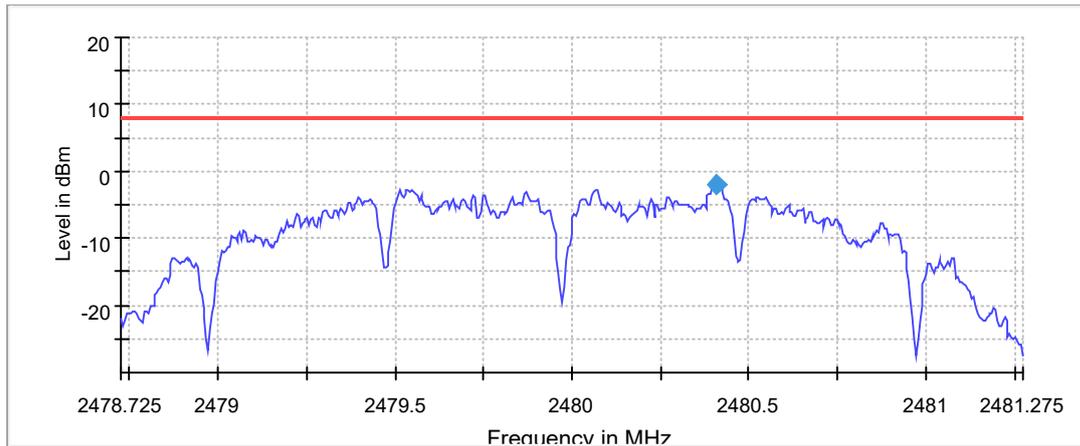
Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.44373 GHz | 2.44373 GHz |
| Stop Frequency | 2.44628 GHz | 2.44628 GHz |
| Span | 2.550 MHz | 2.550 MHz |
| RBW | 10.000 kHz | <= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 510 | ~ 510 |
| Sweptime | 2.550 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 15 / max. 150 | max. 150 |
| Stable | 2 / 2 | 2 |
| Max Stable Difference | 0.24 dB | 0.50 dB |

Power Spectral Density, 2480MHz

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2480.000000 | 2480.407500 | -2.022 | 8.0 | PASS |

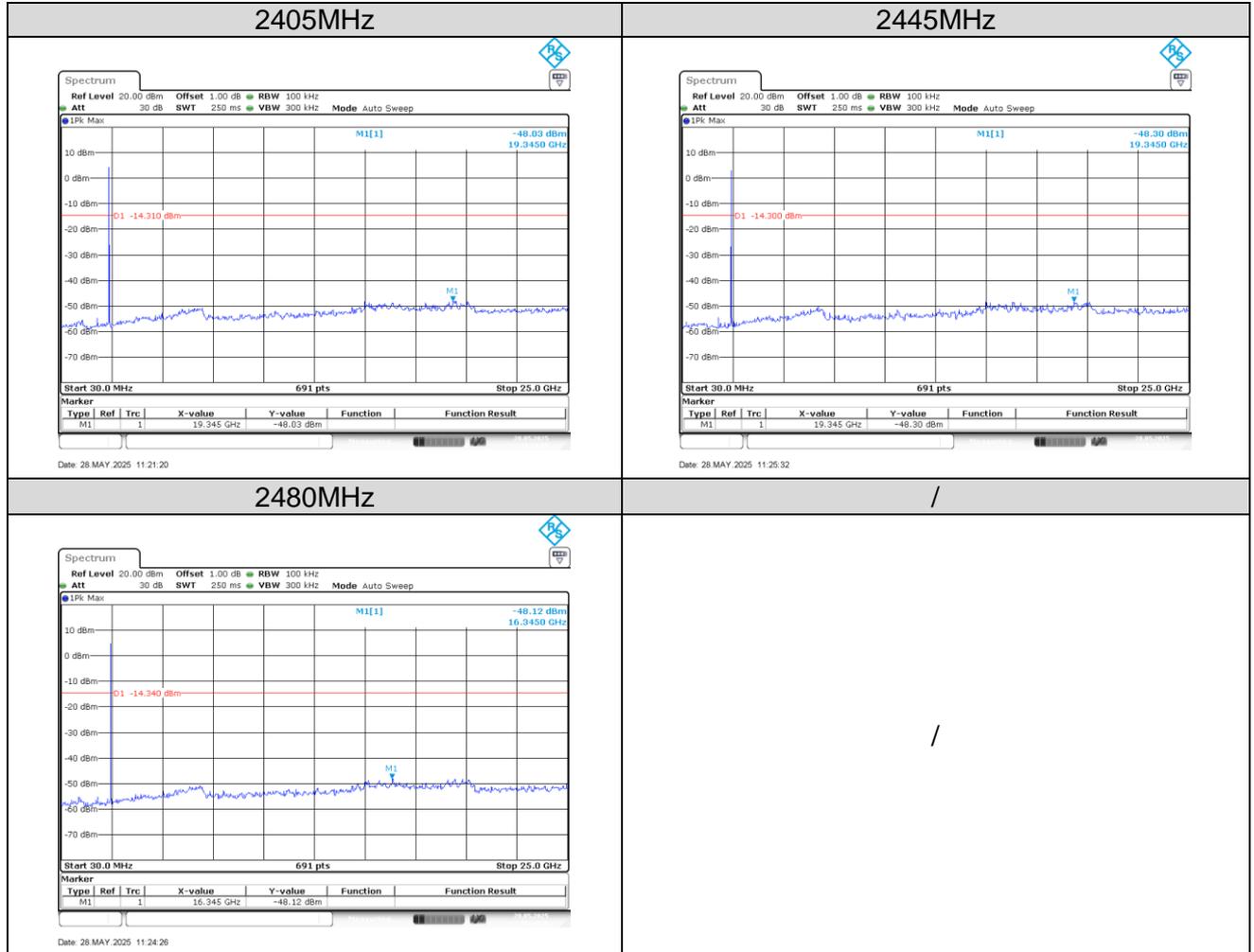
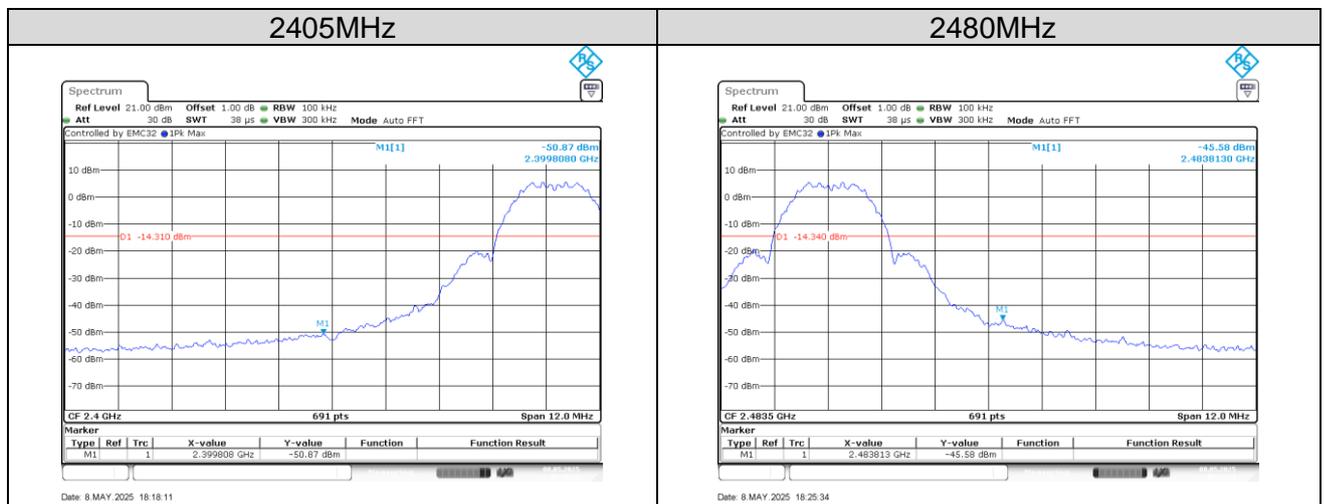
Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

Measurement

| Setting | Instrument Value | Target Value |
|-----------------------|------------------|---------------|
| Start Frequency | 2.47873 GHz | 2.47873 GHz |
| Stop Frequency | 2.48128 GHz | 2.48128 GHz |
| Span | 2.550 MHz | 2.550 MHz |
| RBW | 10.000 kHz | <= 10.000 kHz |
| VBW | 30.000 kHz | >= 30.000 kHz |
| SweepPoints | 510 | ~ 510 |
| Sweeptime | 2.550 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 9 / max. 150 | max. 150 |
| Stable | 2 / 2 | 2 |
| Max Stable Difference | 0.30 dB | 0.50 dB |

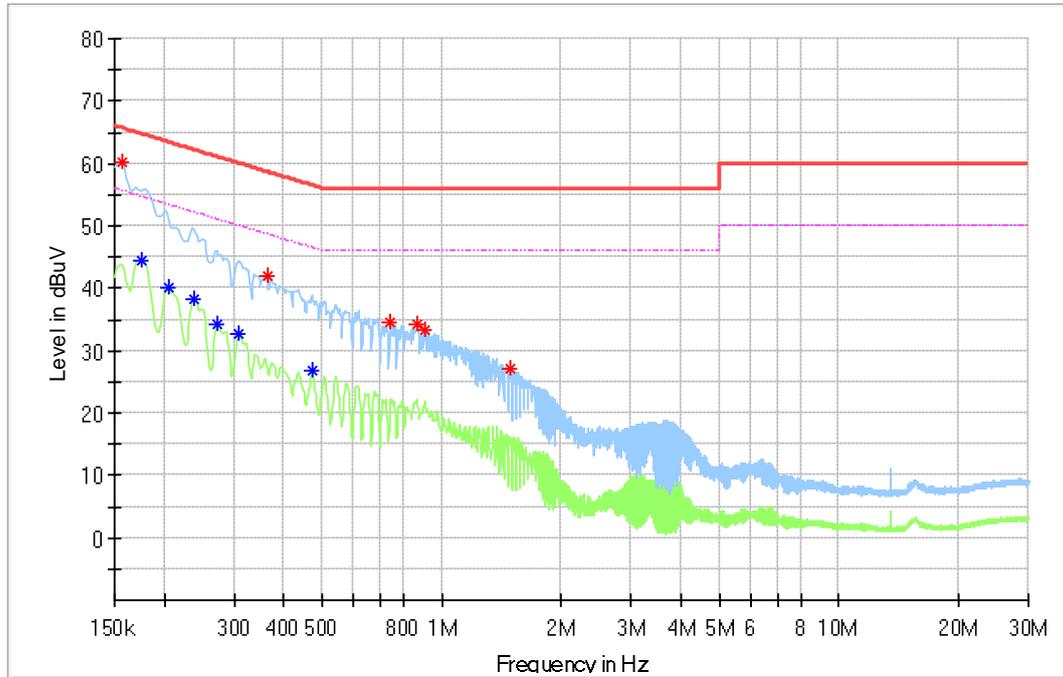
Figure 2: Conducted Spurious Emission

Figure 3: Conducted Band Edge


5.2 Emission in the Frequency Range up to 30MHz

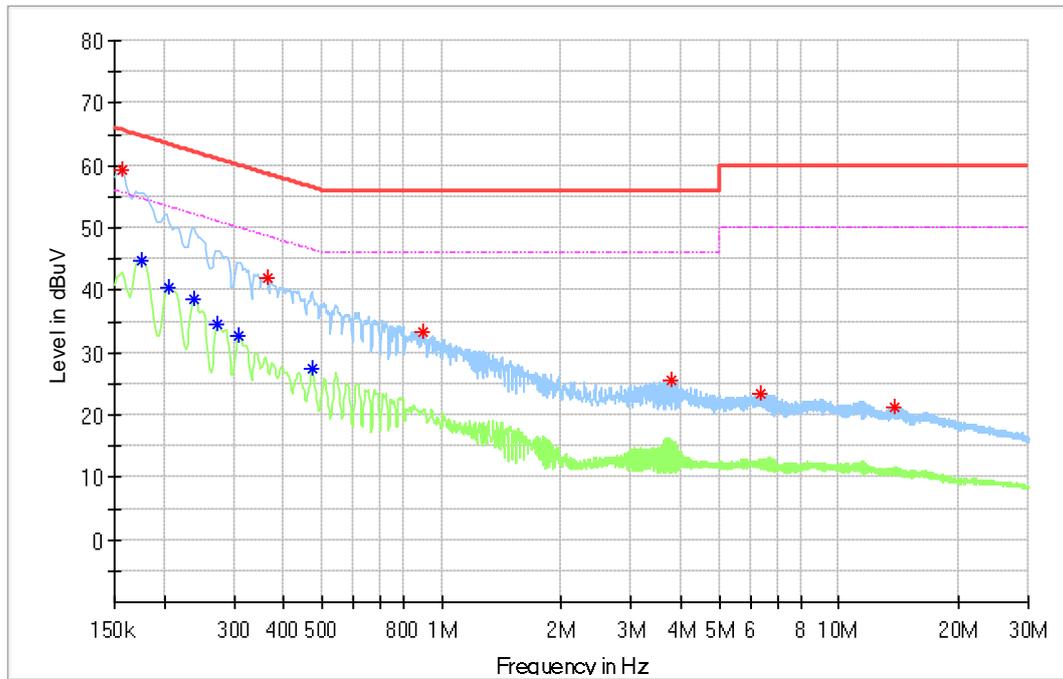
5.2.1 Conducted Emission

RESULT:**Pass**

Date of testing : 2025-04-11
Ambient temperature : 20.1°C
Relative humidity : 49.5%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.207 (a)
RSS-Gen Issue 5, Amendment 2, February 2021, Clause
8.8
Test procedure : KDB 558074 D01v05r02
ANSI C63.10: 2013
Test voltage : AC 120V, 60Hz
Test modes applied : B

Figure 4: Conducted Emission, L

Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|------------|
| 0.156750 | 60.35 | --- | 65.63 | 5.29 | L1 | 10.3 |
| 0.174750 | --- | 44.51 | 54.73 | 10.22 | L1 | 10.3 |
| 0.206250 | --- | 39.98 | 53.36 | 13.37 | L1 | 10.3 |
| 0.237750 | --- | 38.20 | 52.17 | 13.98 | L1 | 10.3 |
| 0.273750 | --- | 34.26 | 51.00 | 16.75 | L1 | 10.3 |
| 0.307500 | --- | 32.56 | 50.04 | 17.48 | L1 | 10.3 |
| 0.363750 | 41.84 | --- | 58.64 | 16.81 | L1 | 10.3 |
| 0.471750 | --- | 26.78 | 46.48 | 19.70 | L1 | 10.3 |
| 0.741750 | 34.44 | --- | 56.00 | 21.56 | L1 | 10.3 |
| 0.872250 | 34.29 | --- | 56.00 | 21.71 | L1 | 10.6 |
| 0.908250 | 33.40 | --- | 56.00 | 22.60 | L1 | 10.6 |
| 1.488750 | 27.02 | --- | 56.00 | 28.98 | L1 | 10.4 |

Figure 5: Conducted Emission, N

Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|------------|
| 0.156750 | 59.31 | --- | 65.63 | 6.32 | N | 10.3 |
| 0.174750 | --- | 44.73 | 54.73 | 10.00 | N | 10.5 |
| 0.206250 | --- | 40.48 | 53.36 | 12.88 | N | 10.8 |
| 0.237750 | --- | 38.42 | 52.17 | 13.75 | N | 10.7 |
| 0.273750 | --- | 34.67 | 51.00 | 16.33 | N | 10.6 |
| 0.307500 | --- | 32.76 | 50.04 | 17.28 | N | 10.5 |
| 0.363750 | 42.10 | --- | 58.64 | 16.55 | N | 10.4 |
| 0.471750 | --- | 27.32 | 46.48 | 19.16 | N | 10.2 |
| 0.901500 | 33.33 | --- | 56.00 | 22.67 | N | 10.4 |
| 3.781500 | 25.66 | --- | 56.00 | 30.34 | N | 10.7 |
| 6.362250 | 23.46 | --- | 60.00 | 36.54 | N | 10.6 |
| 13.818750 | 21.22 | --- | 60.00 | 38.78 | N | 11.1 |

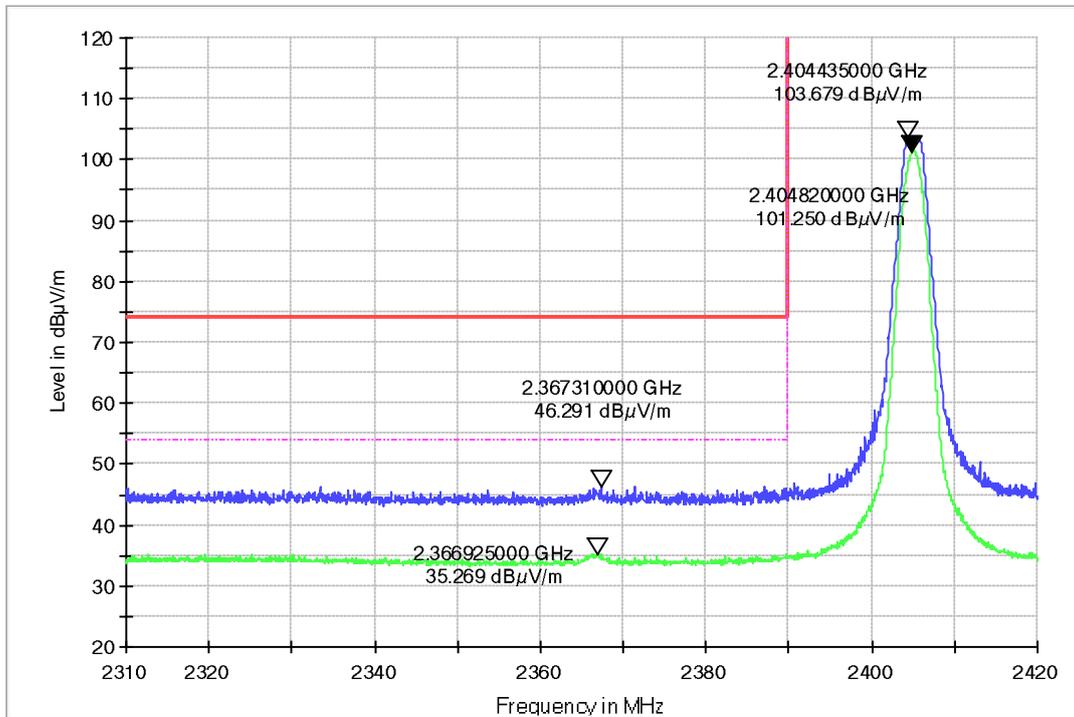
5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

RESULT:**Pass**

| | | |
|----------------------|---|---|
| Date of testing | : | 2025-05-27 |
| Ambient temperature | : | 21.4°C |
| Relative humidity | : | 51.0% |
| Atmospheric pressure | : | 101kPa |
| Test requirement | : | FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10 RSS-247 Issue 3, August 2023, Clause 5.5 |
| Test procedure | : | ANSI C63.10: 2013 |
| Test voltage | : | DC 3.3V |
| Test modes applied | : | A |

Figure 6: Radiated Band-Edge, 2405MHz, H

 XXY-2310⁺ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG

Figure 7: Radiated Band-Edge, 2405MHz, V

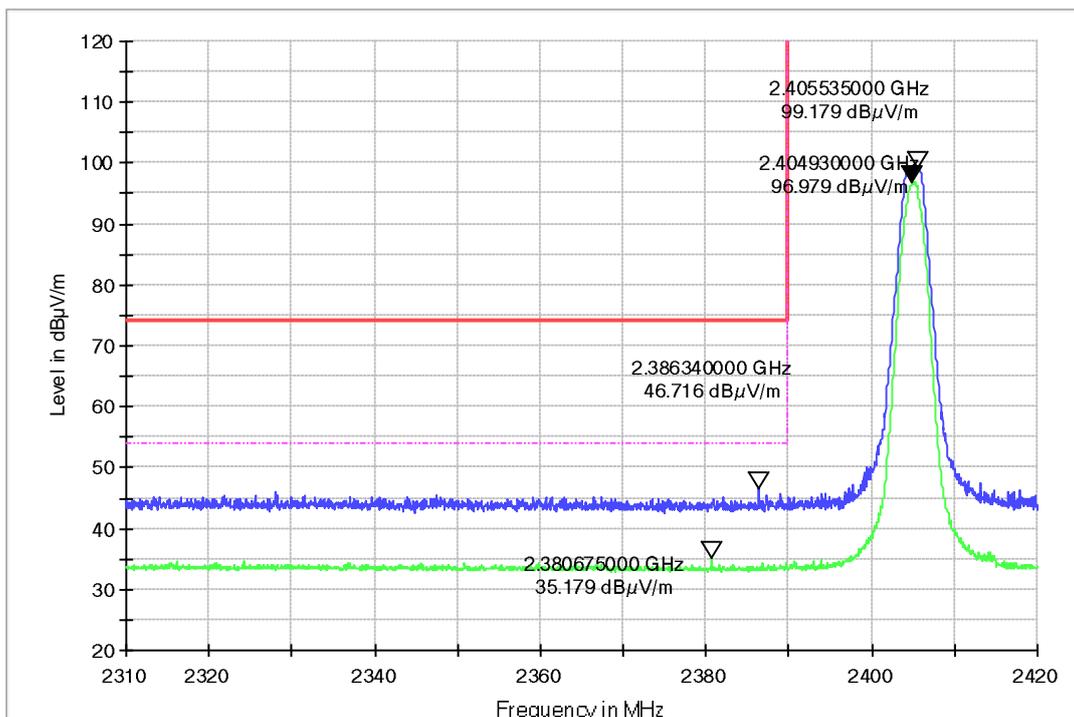
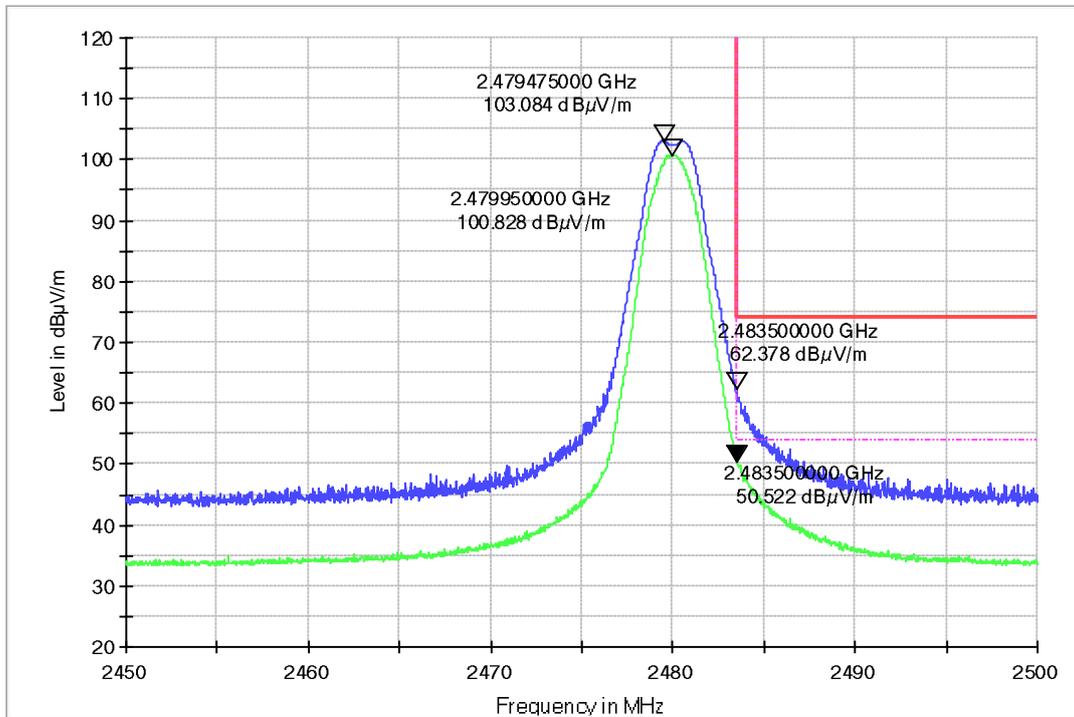
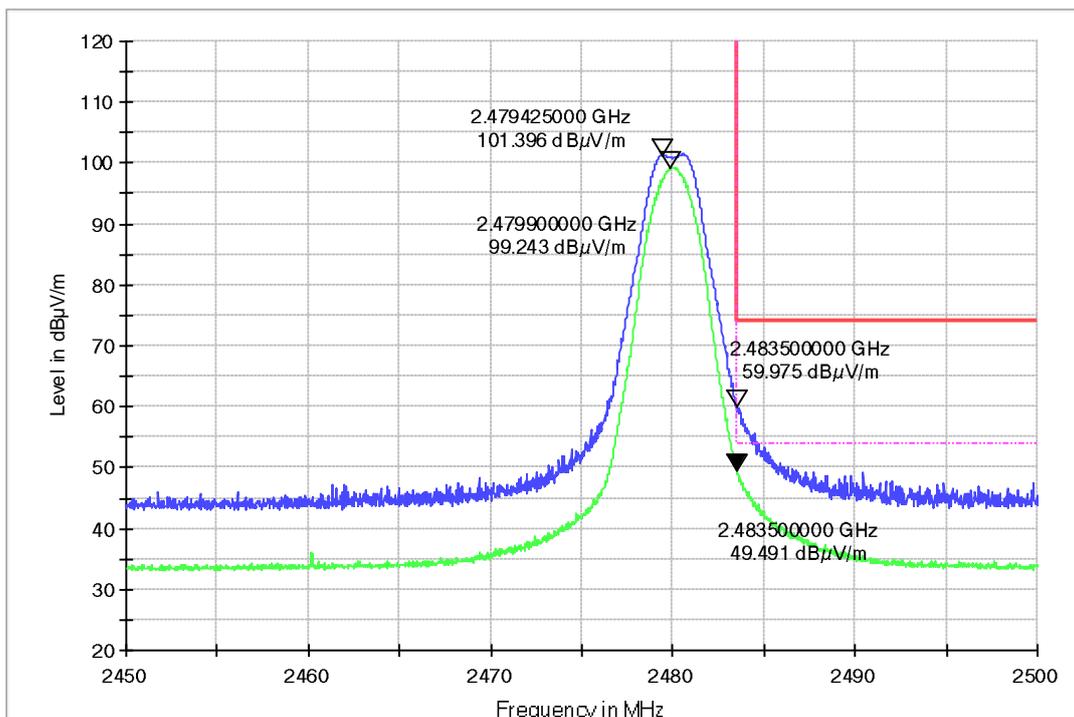
 XXY-2310⁺ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 8: Radiated Band-Edge, 2480MHz, H

 XXY-2470[°] 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG

Figure 9: Radiated Band-Edge, 2480MHz, V

 XXY-2470[°] 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG


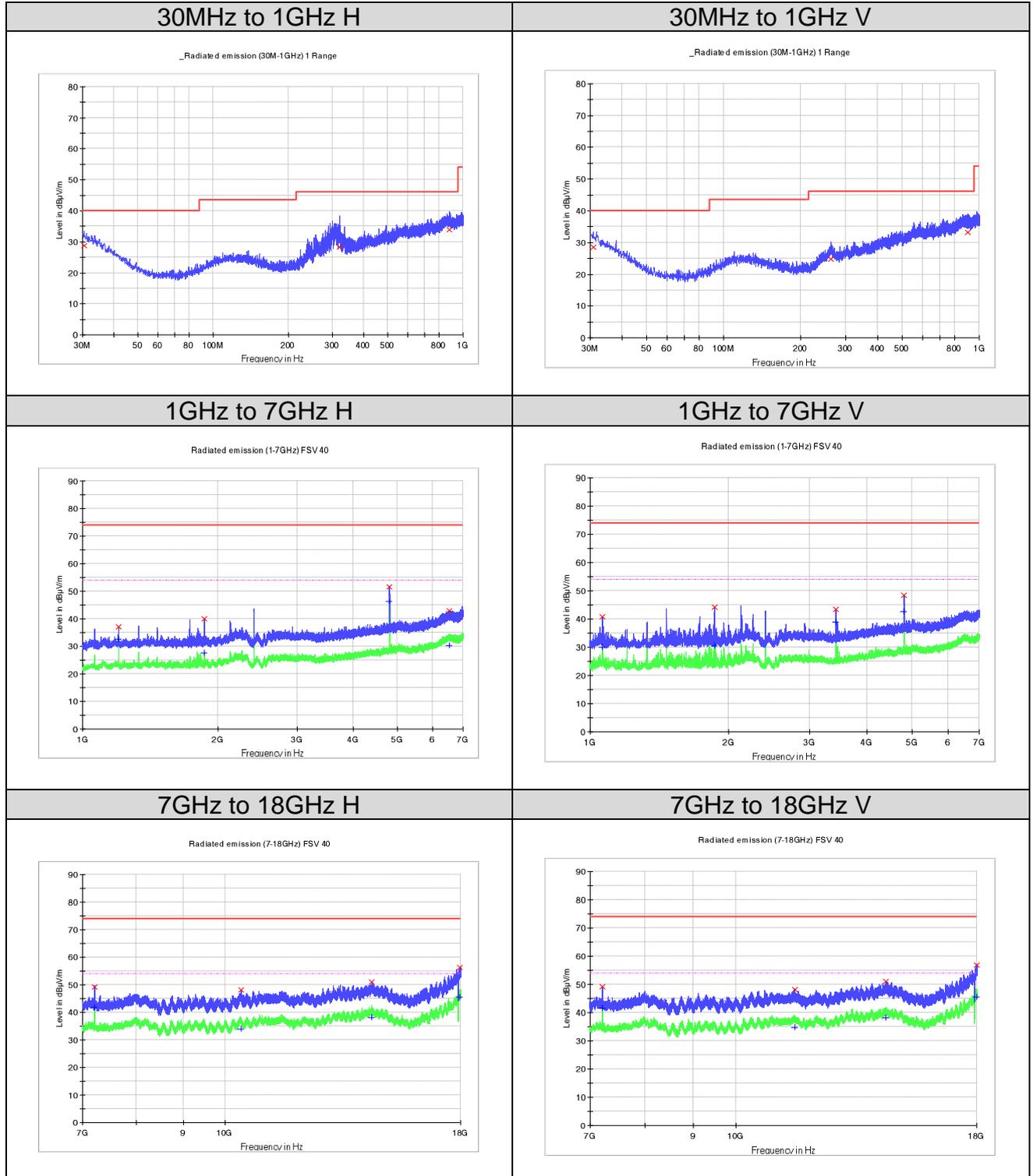
5.3.2 Radiated Spurious Emission

RESULT:**Pass**

| | | |
|----------------------|---|---|
| Date of testing | : | 2025-04-18, 2025-06-02 |
| Ambient temperature | : | 21.5°C, 22.8°C |
| Relative humidity | : | 49.2%, 52.1% |
| Atmospheric pressure | : | 101kPa |
| Test requirement | : | FCC Part 15.247(d) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-247 Issue 3, August 2023, Clause 5.5 |
| Test procedure | : | ANSI C63.10: 2013 |
| Test voltage | : | DC 3.3V |
| Test modes applied | : | A |

Note:

For the frequency range from 18GHz to 25GHz, no emission was found.

Figure 10: Radiated Spurious Emission, 2405MHz


Limit and Margin
QP

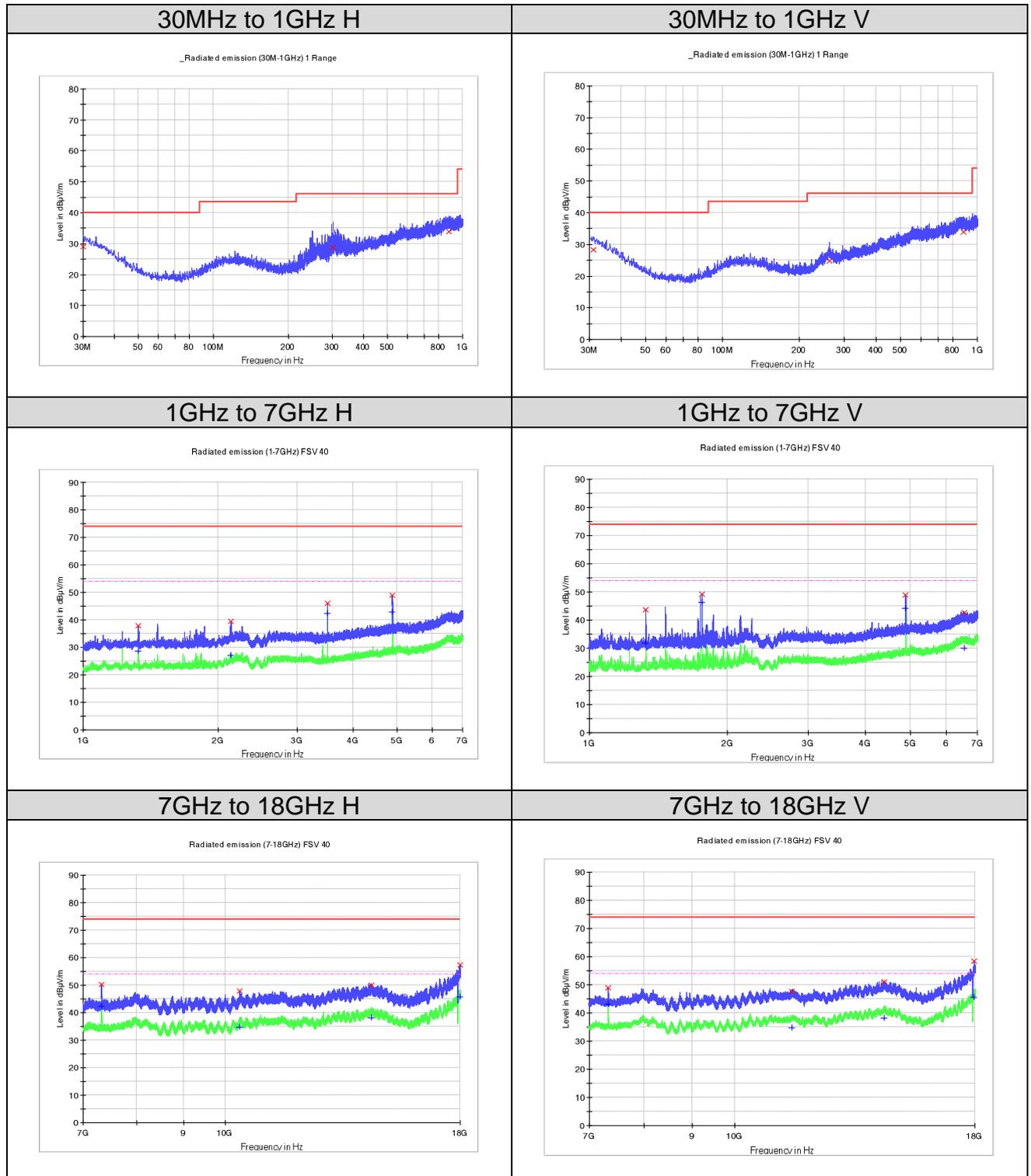
| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 30.363750 | 28.7 | H | 25.2 | 11.3 | 40.0 |
| 321.363750 | 28.4 | H | 21.1 | 17.6 | 46.0 |
| 882.145000 | 33.9 | H | 29.1 | 12.1 | 46.0 |
| 30.848750 | 28.5 | V | 25.0 | 11.5 | 40.0 |
| 263.163750 | 24.8 | V | 21.5 | 21.3 | 46.0 |
| 904.333750 | 33.2 | V | 28.5 | 12.8 | 46.0 |

PK

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1202.363636 | 37.2 | H | -19.7 | 36.8 | 74.0 |
| 1861.272727 | 39.9 | H | -18.4 | 34.1 | 74.0 |
| 4811.090909 | 51.7 | H | -11.3 | 22.3 | 74.0 |
| 6531.454546 | 43.0 | H | -7.6 | 31.0 | 74.0 |
| 7216.562500 | 49.3 | H | -6.2 | 24.7 | 74.0 |
| 10409.656250 | 48.2 | H | -2.6 | 25.8 | 74.0 |
| 14427.750000 | 51.0 | H | 2.4 | 23.0 | 74.0 |
| 17969.406250 | 56.3 | H | 11.8 | 17.7 | 74.0 |
| 1064.909091 | 40.8 | V | -20.1 | 33.2 | 74.0 |
| 1865.636364 | 44.2 | V | -18.4 | 29.8 | 74.0 |
| 3417.727273 | 43.3 | V | -14.9 | 30.7 | 74.0 |
| 4811.363636 | 48.5 | V | -11.3 | 25.5 | 74.0 |
| 7213.125000 | 49.1 | V | -6.1 | 24.9 | 74.0 |
| 11532.343750 | 48.2 | V | -1.7 | 25.8 | 74.0 |
| 14403.343750 | 51.1 | V | 2.4 | 22.9 | 74.0 |
| 17985.906250 | 56.9 | V | 12.1 | 17.1 | 74.0 |

AV

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1202.363636 | 32.7 | H | -19.7 | 21.3 | 54.0 |
| 1861.272727 | 27.7 | H | -18.4 | 26.3 | 54.0 |
| 4811.090909 | 46.2 | H | -11.3 | 7.8 | 54.0 |
| 6531.454546 | 30.3 | H | -7.6 | 23.7 | 54.0 |
| 7216.562500 | 41.8 | H | -6.2 | 12.2 | 54.0 |
| 10409.656250 | 33.9 | H | -2.6 | 20.1 | 54.0 |
| 14427.750000 | 38.1 | H | 2.4 | 15.9 | 54.0 |
| 17969.406250 | 45.4 | H | 11.8 | 8.6 | 54.0 |
| 1064.909091 | 30.0 | V | -20.1 | 24.0 | 54.0 |
| 1865.636364 | 30.6 | V | -18.4 | 23.4 | 54.0 |
| 3417.727273 | 39.0 | V | -14.9 | 15.0 | 54.0 |
| 4811.363636 | 42.7 | V | -11.3 | 11.3 | 54.0 |
| 7213.125000 | 41.5 | V | -6.1 | 12.5 | 54.0 |
| 11532.343750 | 34.9 | V | -1.7 | 19.1 | 54.0 |
| 14403.343750 | 38.2 | V | 2.4 | 15.8 | 54.0 |
| 17985.906250 | 45.6 | V | 12.1 | 8.4 | 54.0 |

Figure 11: Radiated Spurious Emission, 2445MHz


Limit and Margin
QP

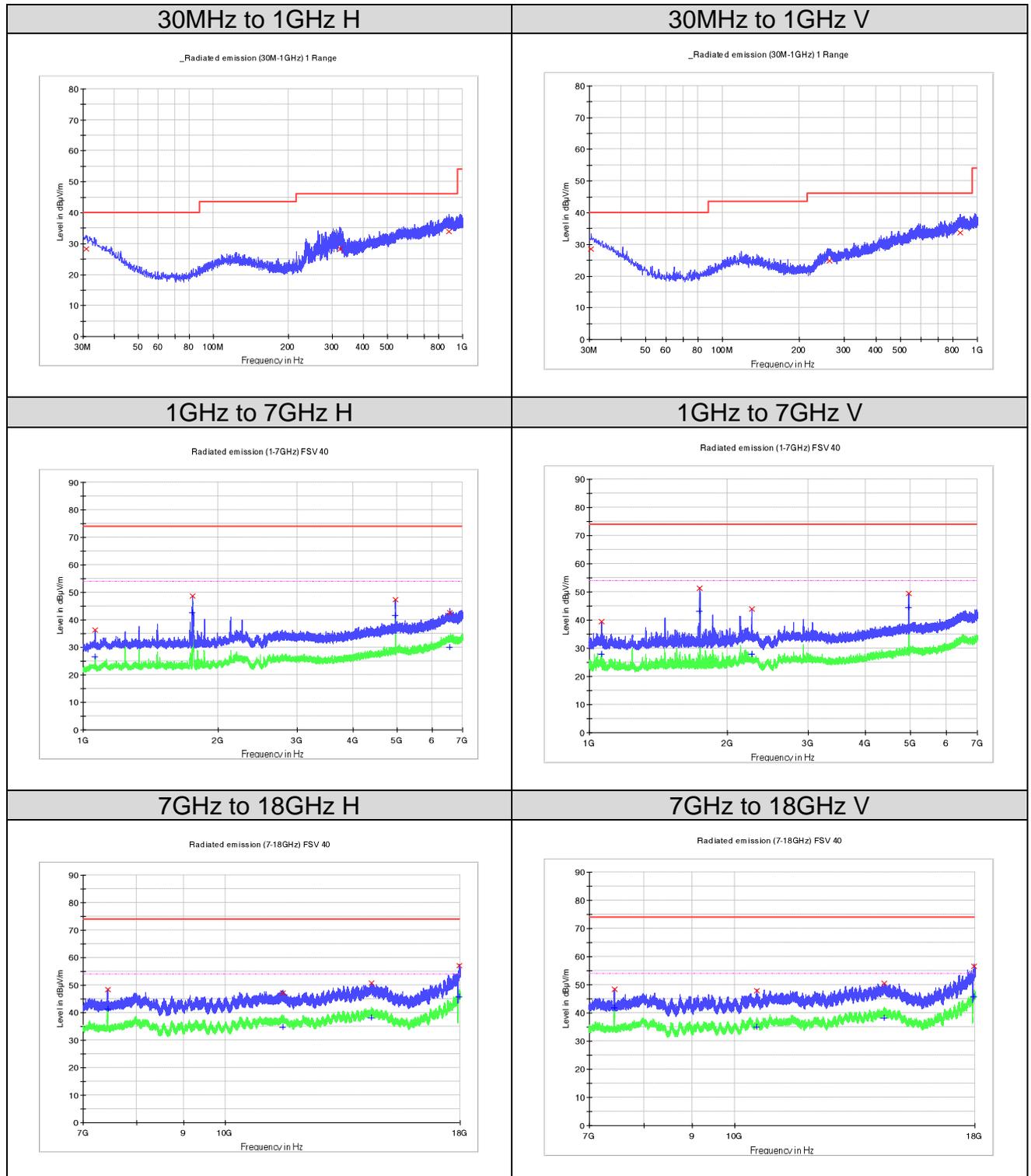
| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 30.000000 | 29.0 | H | 25.4 | 11.0 | 40.0 |
| 302.691250 | 28.7 | H | 20.8 | 17.3 | 46.0 |
| 880.326250 | 33.9 | H | 29.0 | 12.1 | 46.0 |
| 31.212500 | 28.3 | V | 24.8 | 11.7 | 40.0 |
| 261.951250 | 24.9 | V | 21.7 | 21.1 | 46.0 |
| 882.266250 | 34.0 | V | 29.1 | 12.0 | 46.0 |

PK

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1328.363636 | 37.8 | H | -18.9 | 36.2 | 74.0 |
| 2129.636364 | 39.4 | H | -16.6 | 34.6 | 74.0 |
| 3498.181818 | 46.1 | H | -14.4 | 27.9 | 74.0 |
| 4888.818182 | 48.9 | H | -11.3 | 25.1 | 74.0 |
| 7333.093750 | 50.3 | H | -6.5 | 23.7 | 74.0 |
| 10361.875000 | 47.8 | H | -2.7 | 26.2 | 74.0 |
| 14418.125000 | 50.1 | H | 2.4 | 23.9 | 74.0 |
| 17984.187500 | 57.4 | H | 12.1 | 16.6 | 74.0 |
| 1329.181818 | 43.8 | V | -18.8 | 30.2 | 74.0 |
| 1757.909091 | 49.3 | V | -18.8 | 24.7 | 74.0 |
| 4889.090909 | 48.9 | V | -11.3 | 25.1 | 74.0 |
| 6550.000000 | 42.7 | V | -7.6 | 31.3 | 74.0 |
| 7333.093750 | 48.9 | V | -6.5 | 25.1 | 74.0 |
| 11504.843750 | 47.7 | V | -1.7 | 26.3 | 74.0 |
| 14415.375000 | 50.9 | V | 2.4 | 23.1 | 74.0 |
| 17970.437500 | 58.5 | V | 11.9 | 15.5 | 74.0 |

AV

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1328.363636 | 28.6 | H | -18.9 | 25.4 | 54.0 |
| 2129.636364 | 27.1 | H | -16.6 | 26.9 | 54.0 |
| 3498.181818 | 42.5 | H | -14.4 | 11.5 | 54.0 |
| 4888.818182 | 42.9 | H | -11.3 | 11.1 | 54.0 |
| 7333.093750 | 42.5 | H | -6.5 | 11.5 | 54.0 |
| 10361.875000 | 34.9 | H | -2.7 | 19.1 | 54.0 |
| 14418.125000 | 38.3 | H | 2.4 | 15.7 | 54.0 |
| 17984.187500 | 45.7 | H | 12.1 | 8.3 | 54.0 |
| 1329.181818 | 31.9 | V | -18.8 | 22.1 | 54.0 |
| 1757.909091 | 46.2 | V | -18.8 | 7.8 | 54.0 |
| 4889.090909 | 44.3 | V | -11.3 | 9.7 | 54.0 |
| 6550.000000 | 30.1 | V | -7.6 | 23.9 | 54.0 |
| 7333.093750 | 43.2 | V | -6.5 | 10.8 | 54.0 |
| 11504.843750 | 34.8 | V | -1.7 | 19.2 | 54.0 |
| 14415.375000 | 38.2 | V | 2.4 | 15.8 | 54.0 |
| 17970.437500 | 45.6 | V | 11.9 | 8.4 | 54.0 |

Figure 12: Radiated Spurious Emission, 2480MHz


Limit and Margin
QP

| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 30.970000 | 28.4 | H | 24.9 | 11.6 | 40.0 |
| 322.091250 | 28.3 | H | 21.2 | 17.7 | 46.0 |
| 881.660000 | 34.0 | H | 29.1 | 12.0 | 46.0 |
| 30.485000 | 28.6 | V | 25.2 | 11.4 | 40.0 |
| 262.436250 | 24.8 | V | 21.6 | 21.2 | 46.0 |
| 858.501250 | 33.8 | V | 29.0 | 12.2 | 46.0 |

PK

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1063.272727 | 36.2 | H | -20.1 | 37.8 | 74.0 |
| 1755.454546 | 48.8 | H | -18.8 | 25.2 | 74.0 |
| 4958.909091 | 47.4 | H | -11.2 | 26.6 | 74.0 |
| 6560.909091 | 42.6 | H | -7.6 | 31.4 | 74.0 |
| 7441.375000 | 48.5 | H | -6.0 | 25.5 | 74.0 |
| 11534.406250 | 47.1 | H | -1.7 | 26.9 | 74.0 |
| 14411.593750 | 50.7 | H | 2.4 | 23.3 | 74.0 |
| 17979.375000 | 57.2 | H | 12.0 | 16.8 | 74.0 |
| 1062.454546 | 39.4 | V | -20.1 | 34.6 | 74.0 |
| 1739.636364 | 51.4 | V | -18.8 | 22.6 | 74.0 |
| 2259.181818 | 43.9 | V | -15.6 | 30.1 | 74.0 |
| 4959.181818 | 49.5 | V | -11.2 | 24.5 | 74.0 |
| 7441.718750 | 48.5 | V | -6.0 | 25.5 | 74.0 |
| 10551.625000 | 47.8 | V | -2.1 | 26.2 | 74.0 |
| 14402.312500 | 50.4 | V | 2.4 | 23.6 | 74.0 |
| 17979.375000 | 56.5 | V | 12.0 | 17.5 | 74.0 |

AV

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1063.272727 | 26.6 | H | -20.1 | 27.4 | 54.0 |
| 1755.454546 | 42.7 | H | -18.8 | 11.3 | 54.0 |
| 4958.909091 | 41.7 | H | -11.2 | 12.3 | 54.0 |
| 6560.909091 | 30.1 | H | -7.6 | 23.9 | 54.0 |
| 7441.375000 | 41.3 | H | -6.0 | 12.7 | 54.0 |
| 11534.406250 | 34.8 | H | -1.7 | 19.2 | 54.0 |
| 14411.593750 | 38.2 | H | 2.4 | 15.9 | 54.0 |
| 17979.375000 | 45.7 | H | 12.0 | 8.3 | 54.0 |
| 1062.454546 | 27.9 | V | -20.1 | 26.1 | 54.0 |
| 1739.636364 | 43.1 | V | -18.8 | 10.9 | 54.0 |
| 2259.181818 | 27.8 | V | -15.6 | 26.2 | 54.0 |
| 4959.181818 | 44.4 | V | -11.2 | 9.6 | 54.0 |
| 7441.718750 | 41.9 | V | -6.0 | 12.1 | 54.0 |
| 10551.625000 | 35.1 | V | -2.1 | 18.9 | 54.0 |
| 14402.312500 | 38.2 | V | 2.4 | 15.8 | 54.0 |
| 17979.375000 | 45.7 | V | 12.0 | 8.3 | 54.0 |

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