

Test report

408216-9R1TRFWL

Date of issue: February 12, 2021

Applicant:

Garmin International, Inc.

Product:

Battery Cradle + Battery (ANT)

Model:

A04118

Specifications:

- ◆ FCC 47 CFR Part 15, Subpart C – §15.249
- ◆ Industry Canada RSS-210, Issue 10

Lab and test locations

| | |
|-----------------|--|
| Company name | Nemko USA Inc. |
| Address | 2210 Faraday Ave, Suite 150 |
| City | Carlsbad |
| State | California |
| Postal code | 92008 |
| Country | USA |
| Telephone | +1 760 444 3500 |
| Website | www.nemko.com |
| FCC Site Number | Test Firm Registration Number: 392943 Designation Number: US5058 |
| ISED Test Site | 2040B-3 |

| | |
|--------------------|---|
| Tested by | Martha Espinoza, Wireless Test Engineer |
| Reviewed by | James Cunningham, Wireless Supervisor |
| Review date | February 12, 2021 |
| Reviewer signature |  |

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko USA's ISO/IEC 17025 accreditation.

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Section 1 Report summary

1.1 Applicant

| | |
|-----------------|----------------------------------|
| Company name | Garmin International, Inc. |
| Address | 1200 E. 151 st street |
| City | Olathe |
| Province/State | KS |
| Postal/Zip code | 66062 |
| Country | USA |

1.2 Manufacturer

| | |
|-----------------|----------------------------------|
| Company name | Garmin International, Inc. |
| Address | 1200 E. 151 st street |
| City | Olathe |
| Province/State | KS |
| Postal/Zip code | 66062 |
| Country | USA |

1.3 Test specifications

| | |
|---|--|
| FCC 47 CFR Part 15, Subpart C – §15.249 IC RSS-210, Issue 10 | Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz Licence – Exempt radio apparatus: Category I Equipment |
|---|--|

1.4 Test methods

| | |
|--------------------------------------|--|
| ANSI C63.10-2013 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices |
| Annex B – B.10 – RSS-210 and RSS-Gen | Bands: 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz and 24 -24.25 GHz |

1.5 Exclusions

None

1.6 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See “Summary of test results” for full details.

1.7 Test report revision history

Table 1.7-1: Test report revision history

| Revision # | Details of changes made to test report |
|-----------------|---|
| 408216-9TRFWL | Original report issued |
| 408216-9R1TRFWL | Revised product and support equipment names |

Notes:

Section 2 Summary of test results

2.1 FCC Part 15 Subpart C, general requirements

| Part | Test description | Verdict |
|------------|---------------------------|-----------------------------|
| §15.207(a) | Conducted limits | Not applicable ¹ |
| §15.31(e) | Variation of power source | Pass |
| §15.203 | Antenna requirement | Pass ² |
| §15.215(c) | 20 dB occupied bandwidth | Pass |

Notes: ¹EUT is battery power only

²EUT has an integrated antenna and it is not user accessible.

2.2 FCC Part 15.249

| Part | Test description | Verdict |
|------------|---|----------------|
| §15.249(a) | Radiated emissions not in restricted bands | Pass |
| §15.249(b) | Fixed point-to-point operation in the 24.0 – 24.25 GHz band | Not applicable |
| §15.249(c) | Spurious emissions (except harmonics) | Pass |

Notes: None

2.3 IC RSS-210, Issue 10

| Part | Test description | Verdict |
|---------------|--|---------|
| Annex B.10(a) | Field strength: fundamental and harmonics | Pass |
| Annex B.10(b) | Radiated emissions except harmonic emissions | Pass |

Notes: None

2.4 IC RSS-GEN, Issue 5

| Part | Test description | Verdict |
|------|--|-----------------------------|
| 6.7 | Occupied bandwidth (99%) | Pass |
| 7.3 | Receiver radiated emission limits | Not applicable ¹ |
| 7.4 | Receiver conducted emission limits | Not applicable ¹ |
| 8.8 | Power Line Conducted Emissions Limits for License-Exempt Radio Apparatus | Not applicable ² |

Notes: ¹ EUT is neither a scanning receiver nor a stand-alone receiver

² EUT is battery powered only

Section 3 Equipment under test (EUT) details

3.1 Sample information

| | |
|------------------------|------------------|
| Receipt date | November 9, 2020 |
| Nemko sample ID number | NEx: 408216 |

3.2 EUT information

| | |
|---------------|---|
| Product name | Battery Cradle + Battery |
| Model | A04118 |
| Serial number | Conducted sample (50212): 3345709192 Radiated sample (30926): 3345709262 |
| Part number | N/A |

3.3 Technical information

| | |
|----------------------------------|--|
| Used IC test site(s) reg. number | N/A |
| RSS number and issue | RSS-210 Issue 10 (December 2019) |
| Frequency band | 2400 – 2483.5 MHz |
| Minimum frequency (MHz) | 2402 |
| Maximum frequency (MHz) | 2480 |
| Minimum output power (dBm) | -59.01 dBm EIRP |
| Maximum output power (dBm) | -57.47 dBm EIRP |
| Measured 20 dB bandwidth | 2402 MHz: 964.10 kHz 2441 MHz: 960.16 kHz 2480 MHz: 941.41 kHz |
| Type of modulation | GFSK |
| Emission classification | N/A |
| Power requirements | Battery package |
| Antenna information | 3.8 dBi maximum antenna gain |

3.4 EUT exercise and monitoring details

Conducted and radiated sample were configured through a tool named “RF State Setter” where different parameters can be configured such as, channel frequency, continuous wave signal, modulated signal, ANT, BLE, etc., depending on the test requirement.

3.5 EUT setup details

Table 3.5-1: EUT sub assemblies

| Description | Brand name | Model/Part number | Serial number | Rev. |
|----------------|------------|-------------------|---------------|------|
| Battery cradle | Garmin | A04118 | 3345709192 | --- |
| Battery | Garmin | A04119 | 3345708884 | --- |

Table 3.5-2: EUT interface ports

| Description | Qty. |
|---------------------------------------|------|
| Field disturbance sensor port | 1 |
| Field disturbance sensor display port | 1 |
| Battery port | 1 |

3.5 EUT setup details continued

Table 3.5-1: Support equipment

| Description | Brand name | Model/Part number | Serial number | Rev. |
|-------------|------------|-------------------|---------------|------|
| Laptop | Dell | Latitude | N/A | --- |
| ANT USB | Dynastream | ANTUSB-m | 203-JN6016 | --- |

Table 3.5-2: Inter-connection cables

| Cable description | From | To | Length (ft) |
|-------------------|------|-----|-------------|
| N/A | N/A | N/A | N/A |

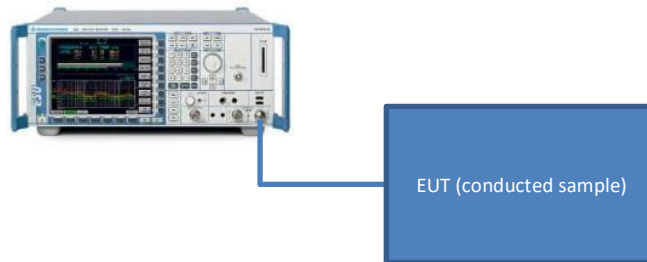


Figure 3.5-1: Test conducted setup.

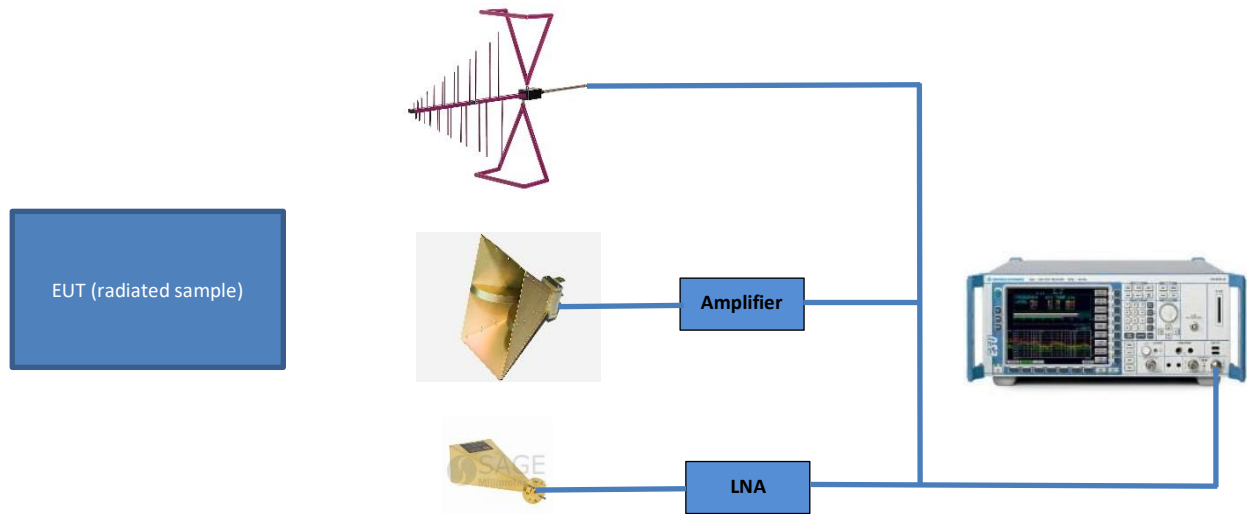


Figure 3.5-2: Test radiated setup

Section 4 Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures

Section 5 Test conditions

5.1 Atmospheric conditions

| | |
|-------------------|------------|
| Temperature | 15-30 °C |
| Relative humidity | 20-75 % |
| Air pressure | 86–106 kPa |

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6 Measurement uncertainty

6.1 Uncertainty of measurement

Measurement uncertainty budgets for the tests are detailed below. Measurement uncertainty calculations assume a coverage factor of $K = 2$ with 95% certainty.

| Test name | Measurement uncertainty, dB |
|--|-----------------------------|
| All antenna port measurements/ including OBW | 0.55 |
| Conducted spurious emissions | 1.13 |
| Radiated spurious emissions | 3.78 |
| AC power line conducted emissions | 1.38 |
| Supply Voltages | 0.05% |
| Time | 2.09% |

Table 6.1-1: Measurement uncertainty.

Important note: All testing in this document were done using the maximum radiation pattern from transmitter antenna for covering the worst case in all the measurements.

Section 7 Test Equipment

7.1 Test equipment list

Table 7.1-1: Test Equipment List

| Equipment | Manufacturer | Model no. | Asset no. | Cal cycle | Next cal. |
|---------------------|-----------------|---------------------|-----------|-----------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESU40 | E1131 | 1 year | 03 Dec 2021 |
| EMI Test Receiver | Rohde & Schwarz | ESU40 | E1121 | 1 year | 01 Dec 2021 |
| Spectrum analyzer | Rohde & Schwarz | FSW | E1302 | 1 year | 18 Sep 2021 |
| Spectrum analyzer | Rohde & Schwarz | FSV | E1120 | 1 year | 19 Dec 2021 |
| System controller | Sunol sciences | SC104V | E1191 | NCR | NCR |
| Power sensor | ETS Lindgren | 7002-006 | E1062 | 1 year | 29 Oct 2021 |
| DRG Horn | ETS-Lindgren | 3117-PA | E1139 | 2 years | 21 March 2021 |
| Bilog Antenna | Schaffner | CBL6111C | 1763 | 2 years | 18 Feb 2022 |
| Antenna Horn | Sage | SAR-2309-42-S2 | E1143 | 2 years | 13 Nov 2022 |
| Low Noise Amplifier | Sage | SBL-1834034030-KFKF | E1228 | NCR | NCR |

Table 7.1-2: Test Software

| Manufacturer of Software | Details |
|--------------------------|------------------|
| Rohde & Schwarz | EMC 32 V10.60.15 |

Section 8 Testing data

8.1 Occupied bandwidth: 20 dB and 99%

8.1.1 Definition and limits

Title 47 → Chapter I → Subchapter A → Part 15 → Subpart C → §15.215(c)

- (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80 % of the permitted band in order to minimize the possibility of out-of-band operation.

RSS-GEN → 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSS.

8.1.2 Test summary

| | | | |
|---------------|-------------------|-------------------|-----------|
| Verdict | Pass | | |
| Test date | November 25, 2020 | Temperature | 20 °C |
| | November 30, 2020 | | 21 °C |
| Test engineer | Martha Espinoza | Air pressure | 1000 mbar |
| | | | 1001 mbar |
| Test location | Wireless bench | Relative humidity | 46 % |
| | | | 53 % |

8.1.3 Notes

Testing was performed in ANT mode and the EUT transmitting on a fixed channel at full power. Cable losses were calibrated using an offset of 1.5 dB.

8.1.4 Setup details

| | |
|-------------------------|---|
| EUT setup configuration | Tabletop |
| Test facility | Wireless bench |
| Measurement method | ANSI C63.10 §11.8.1 using built-in marker function of the spectrum analyzer |

Receiver/spectrum analyzer settings:

| | |
|----------------------|------------------------------------|
| Resolution bandwidth | 30 kHz (1 – 5 % of OBW) |
| Video bandwidth | 300 kHz |
| Detector mode | Peak |
| Trace mode | Max Hold |
| Measurement time | Long enough for trace to stabilize |

8.1.5 Test data

Table 8.1-1: 20 dB and 99% occupied bandwidth test data

| Test Frequency (MHz) | 20 dB Bandwidth (kHz) | 99 % Bandwidth (kHz) |
|----------------------|-----------------------|----------------------|
| 2402 | 964.10 | 917.777 |
| 2440 | 960.16 | 920.103 |
| 2480 | 941.41 | 920.936 |

Occupied bandwidth: 20 dB and 99%

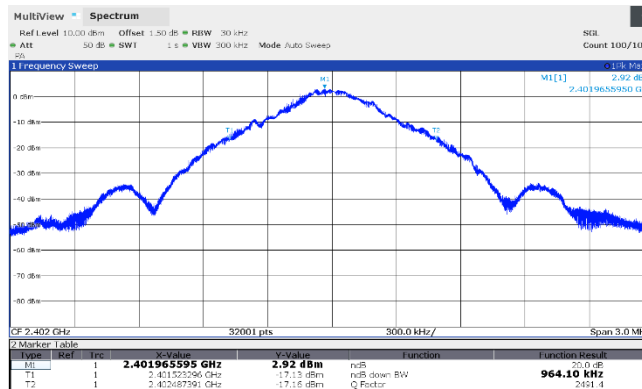


Figure 8.1-1: 20 dB occupied bandwidth, 2402 MHz

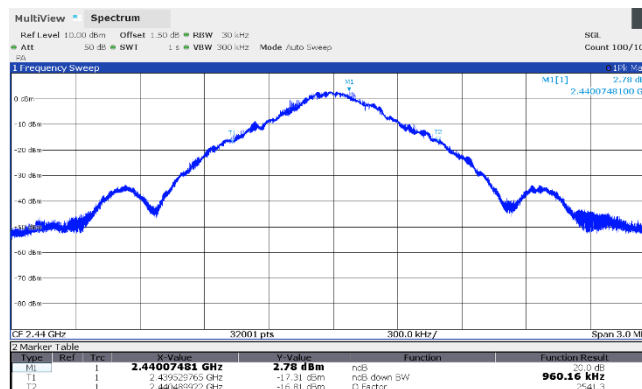


Figure 8.1-2: 20 dB occupied bandwidth, 2440 MHz

Occupied bandwidth: 20 dB and 99%

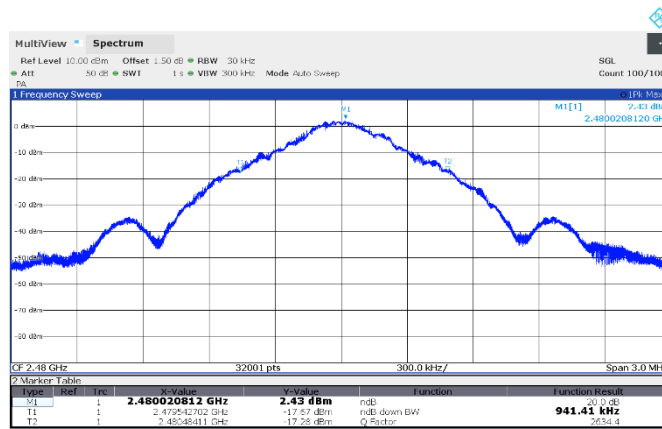


Figure 8.1-3: 20 dB occupied bandwidth, 2480 MHz

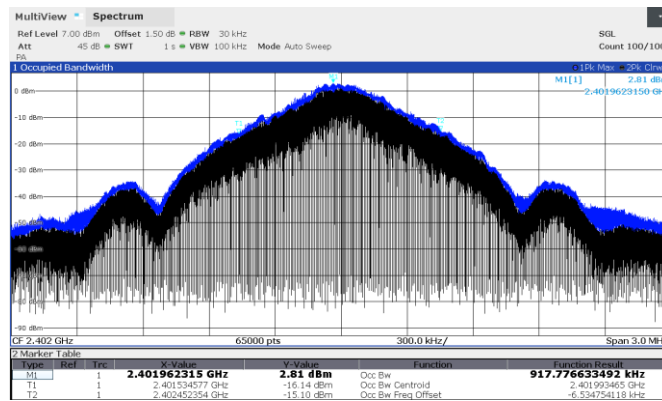


Figure 8.1-4: 99% occupied bandwidth, 2402 MHz

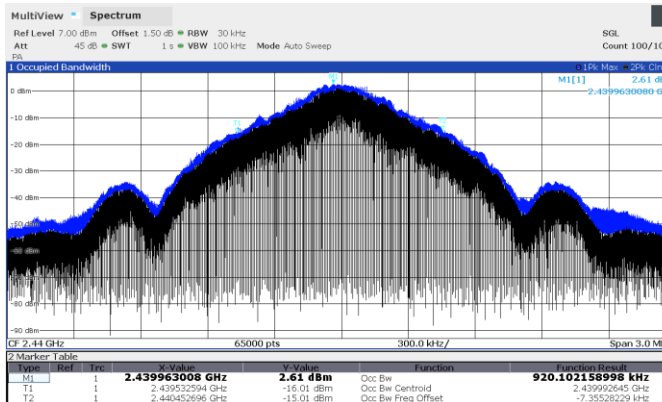


Figure 8.1-5: 99% occupied bandwidth, 2440 MHz

Occupied bandwidth: 20 dB and 99%

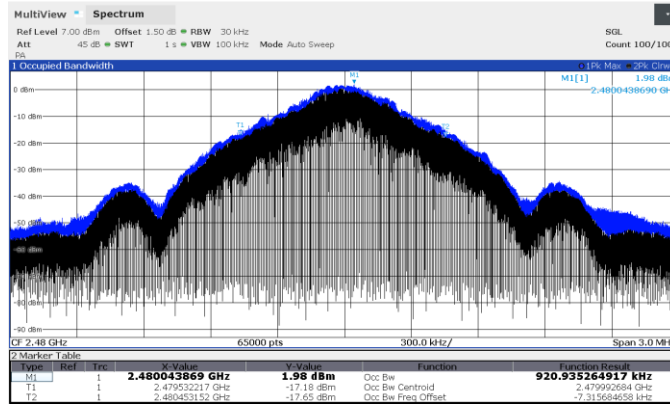


Figure 8.1-6: 99% occupied bandwidth, 2480 MHz

8.2 Field strength of fundamental, harmonic, and spurious emissions

8.2.1 Definition and limits

Title 47 → Chapter I → Subchapter A → Part 15 → Subpart C → §15.249(a)
RSS-210 → Annex B.10(a)

- (a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Table 8.2-1: Field strength limits

| Fundamental frequency (MHz) | Field strength (mV/m) | Field strength (dB μ V/m) | Field strength of harmonics (mV/m) | Field strength of harmonics (dB μ V/m) |
|-----------------------------|-----------------------|-------------------------------|------------------------------------|--|
| 902 - 928 | 50 | 93.97 | 500 | 53.97 |
| 2400 – 2483.5 | 50 | 93.97 | 500 | 53.97 |
| 5725 - 5875 | 50 | 93.97 | 500 | 53.97 |
| 24000 - 24250 | 250 | 107.95 | 2500 | 67.95 |

- (c) Field strength limits are specified at a distance of 3 meters.
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

Title 47 → Chapter I → Subchapter A → Part 15 → Subpart C → §15.209(a)

- (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Table 8.2-2: Spurious emission limits

| Frequency (MHz) | Field strength (dB μ V/m) | Measurement distance (m) |
|-----------------|-------------------------------|--------------------------|
| 30 - 88 | 40.00 | 3 |
| 88 - 216 | 43.52 | 3 |
| 216 - 960 | 46.02 | 3 |
| Above 960 | 53.97 | 3 |

8.2.2 Test summary

| | | | |
|---------------|--|-------------------|--|
| Verdict | Pass | | |
| Test date | November 12, 2020 December 16, 2020 December 17, 2020 December 19, 2020 | Temperature | 21°C 21°C 20°C 23°C |
| Test engineer | Martha Espinoza | Air pressure | 1002 mbar 1005 mbar 1001 mbar 1000 mbar |
| Test location | 3m semi anechoic chamber | Relative humidity | 51 % 48 % 50 % 51 % |

8.2.3 Notes

Testing was performed in ANT mode and the EUT transmitting on a fixed channel at full power. The EUT was configured to transmit continuously on the lowest, middle, and highest channels. The spectrum was searched from 30 MHz to 26 GHz (above the 10th harmonic of the highest transmit frequency). Radiated measurements were performed at a 3 m measurement distance.

Field strength of fundamental, harmonic, and spurious emissions

8.2.4 Setup details

Receiver settings for radiated measurements below 1 GHz:

| | |
|----------------------|--|
| Resolution bandwidth | 120 kHz |
| Video bandwidth | 300 kHz |
| Detector mode | Peak (preview measurements) Quasi-Peak (final measurements) |
| Trace mode | Max Hold |
| Measurement time | 5 s (final measurements) |

Receiver settings for radiated measurements above 1 GHz:

| | |
|----------------------|---------------------------------------|
| Resolution bandwidth | 1 MHz |
| Video bandwidth | 3 MHz |
| Detector mode | Average and peak (final measurements) |
| Trace mode | Max Hold |
| Measurement time | 5 s (final measurements) |

8.2.5 Test data

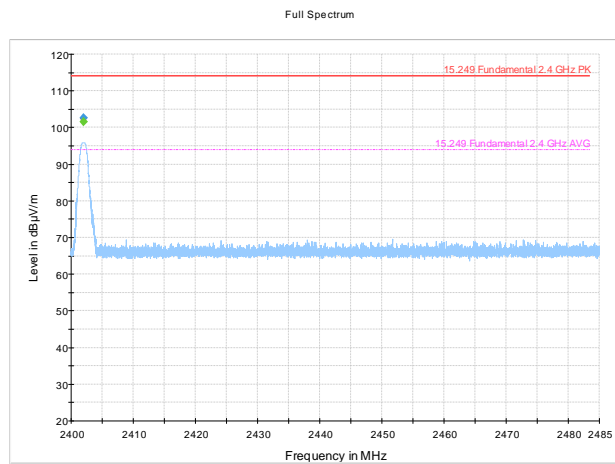


Figure 8.2-1: Field strength of fundamental, 2402 MHz

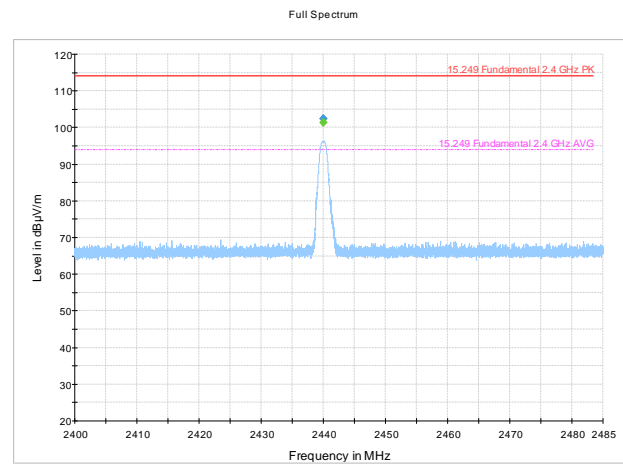


Figure 8.2-2: Field strength of fundamental, 2440 MHz

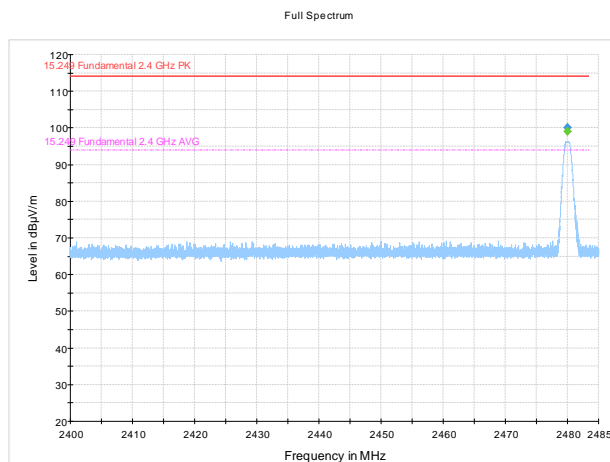


Figure 8.2-3: Field strength of fundamental, 2480 MHz

8.2.5 Test data, continued

Table 8.2-3: Field strength of fundamental

| Frequency (MHz) | MaxPeak (dB μ V/m) | CAverage (dB μ V/m) | Limit (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------------|-------------------------|----------------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 2402.050000 | --- | 38.734 | 93.97 | 5000.0 | 1000.000 | 110.4 | V | 25.0 | 19.8 |
| 2402.050000 | 102.61 | --- | 113.97 | 5000.0 | 1000.000 | 110.4 | V | 25.0 | 19.8 |
| 2439.950000 | --- | 38.584 | 93.97 | 5000.0 | 1000.000 | 109.3 | V | 25.0 | 20.1 |
| 2439.950000 | 102.46 | --- | 113.97 | 5000.0 | 1000.000 | 109.3 | V | 25.0 | 20.1 |
| 2480.040000 | --- | 36.214 | 93.97 | 5000.0 | 1000.000 | 110.4 | V | 35.0 | 20.2 |
| 2480.040000 | 100.09 | --- | 113.97 | 5000.0 | 1000.000 | 110.4 | V | 35.0 | 20.2 |

Peak values were measured directly. Average values were calculated using a duty cycle correction factor. During normal operation, the transmitter has a duty cycle of less than 1%. To calculate the duty cycle correction, the duty cycle in normal operation was measured:

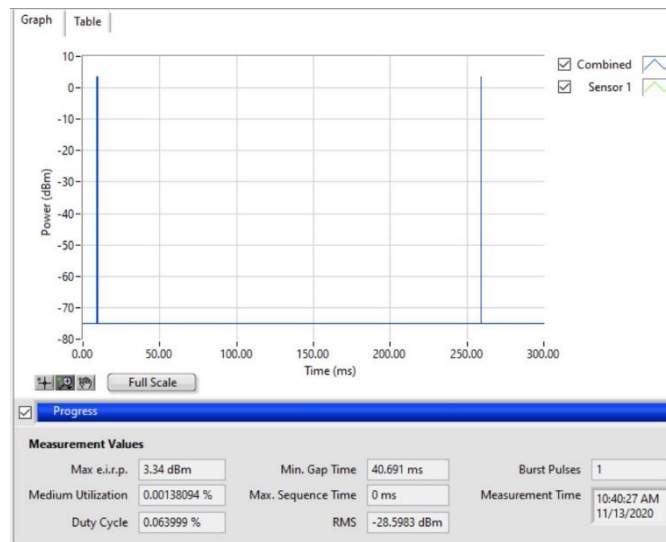


Figure 8.2-4: Normal operation duty cycle measurement with power sensor

Duty cycle correction factor calculated as:

$$\begin{aligned}\delta (dB) &= 20 \text{ Log } (\text{duty cycle}) \\ \delta (dB) &= 20 \text{ Log } (0.00063999) \\ \delta (dB) &= -63.876\end{aligned}$$

Therefore, the average power of the fundamental reported in Table 8.2-3 above is calculated by adding the duty cycle correction factor (-63.876 dB) to the measured peak power.

8.2.5 Test data, continued

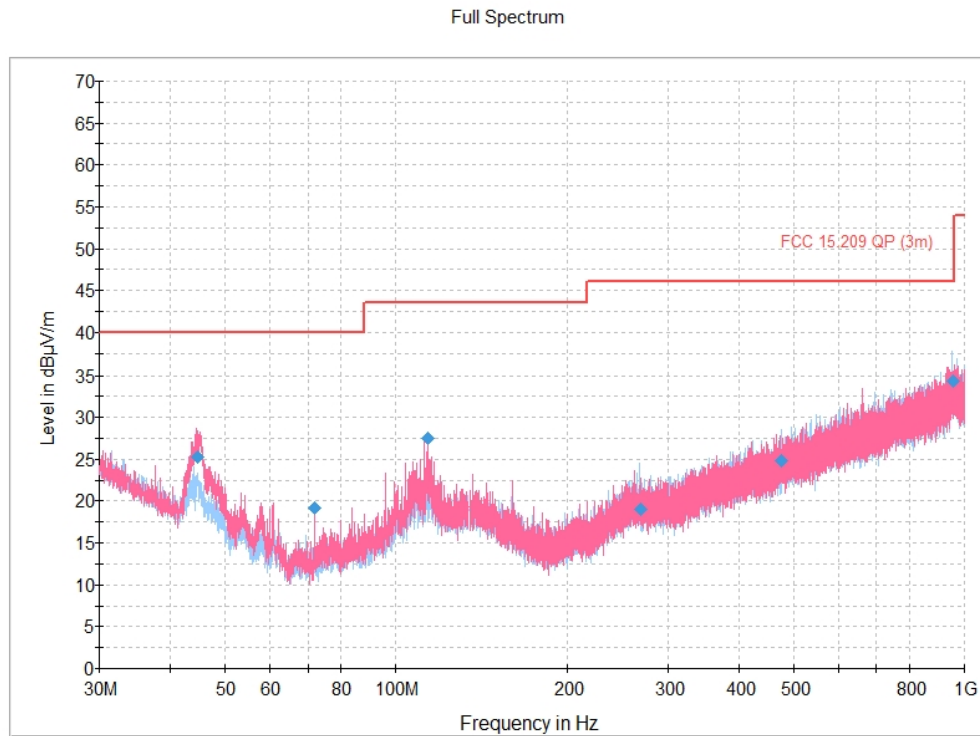


Figure 8.2-5: Radiated emissions, 2402 MHz, 30 – 1000 MHz

Table 8.2-4: Radiated emissions, 2402 MHz, 30 – 1000 MHz

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 44.622333 | 25.31 | 40.00 | 14.69 | 5000.0 | 120.000 | 105.0 | V | 224.0 | 18.6 |
| 72.001000 | 19.10 | 40.00 | 20.90 | 5000.0 | 120.000 | 401.0 | V | 224.0 | 13.9 |
| 113.646333 | 27.49 | 43.50 | 16.01 | 5000.0 | 120.000 | 395.0 | V | 188.0 | 19.1 |
| 268.548667 | 19.05 | 46.00 | 26.95 | 5000.0 | 120.000 | 182.0 | H | 11.0 | 21.4 |
| 475.920000 | 24.80 | 46.00 | 21.20 | 5000.0 | 120.000 | 213.0 | H | 280.0 | 26.7 |
| 953.156000 | 34.34 | 46.00 | 11.66 | 5000.0 | 120.000 | 245.0 | H | 256.0 | 34.7 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

Notes:

8.2.5 Test data, continued

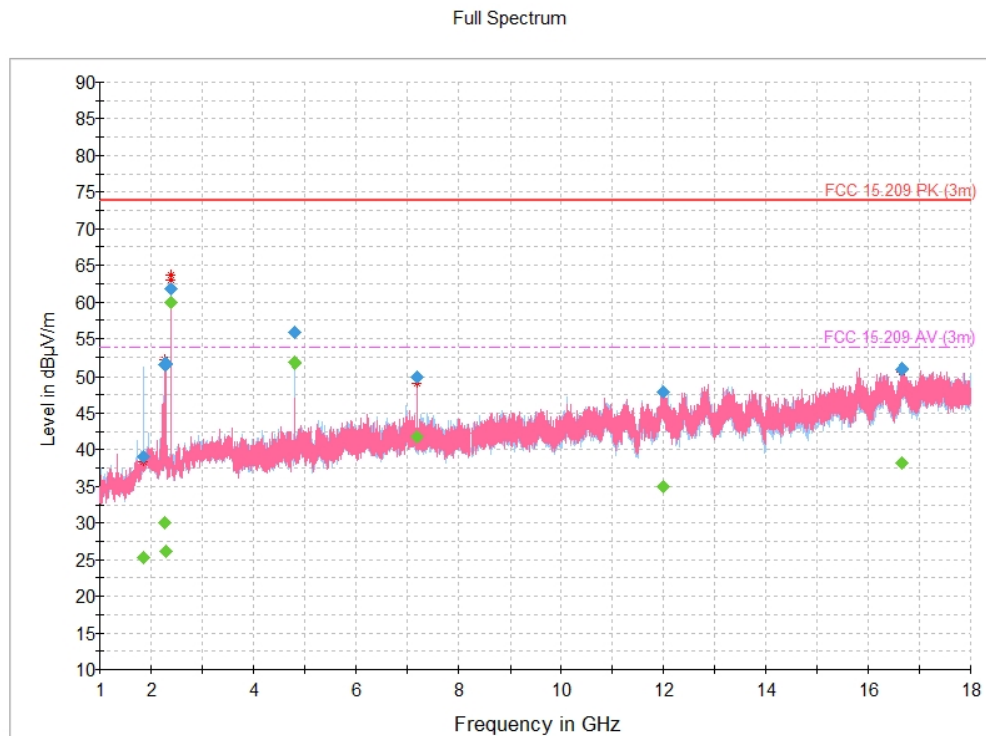


Figure 8.2-6: Radiated emissions, 2402 MHz, 1 – 18 GHz

Table 8.2-5: Radiated emissions, 2402 MHz, 1 – 18 GHz

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-------------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 1863.666667 | 39.00 | --- | 73.90 | 34.90 | 5000.0 | 1000.000 | 388.0 | H | 92.0 | -11.2 |
| 1863.666667 | --- | 25.32 | 53.90 | 28.58 | 5000.0 | 1000.000 | 388.0 | H | 92.0 | -11.2 |
| 2273.866667 | --- | 29.99 | 53.90 | 23.91 | 5000.0 | 1000.000 | 161.0 | V | 0.0 | -10.4 |
| 2273.866667 | 51.56 | --- | 73.90 | 22.34 | 5000.0 | 1000.000 | 161.0 | V | 0.0 | -10.4 |
| 2290.133333 | 51.63 | --- | 73.90 | 22.27 | 5000.0 | 1000.000 | 108.0 | V | 0.0 | -10.5 |
| 2290.133333 | --- | 26.11 | 53.90 | 27.79 | 5000.0 | 1000.000 | 108.0 | V | 0.0 | -10.5 |
| 2402.166667 | Low channel fundamental | | | | | | | | | |
| 2402.166667 | Low channel fundamental | | | | | | | | | |
| 4804.200000 | --- | 51.86 | 53.90 | 2.04 | 5000.0 | 1000.000 | 275.0 | H | 324.0 | -1.7 |
| 4804.200000 | 55.81 | --- | 73.90 | 18.09 | 5000.0 | 1000.000 | 275.0 | H | 324.0 | -1.7 |
| 7205.733333 | --- | 41.80 | 53.90 | 12.10 | 5000.0 | 1000.000 | 173.0 | V | 240.0 | 0.7 |
| 7205.733333 | 49.99 | --- | 73.90 | 23.91 | 5000.0 | 1000.000 | 173.0 | V | 240.0 | 0.7 |
| 11984.833333 | --- | 34.91 | 53.90 | 18.99 | 5000.0 | 1000.000 | 181.0 | H | 0.0 | 6.1 |
| 11984.833333 | 47.82 | --- | 73.90 | 26.08 | 5000.0 | 1000.000 | 181.0 | H | 0.0 | 6.1 |
| 16654.400000 | 50.96 | --- | 73.90 | 22.94 | 5000.0 | 1000.000 | 410.0 | H | 288.0 | 13.9 |
| 16654.400000 | --- | 38.17 | 53.90 | 15.73 | 5000.0 | 1000.000 | 410.0 | H | 288.0 | 13.9 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Notes: Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

A 2.4 GHz notch filter was used to prevent overloading.

8.2.5 Test data, continued

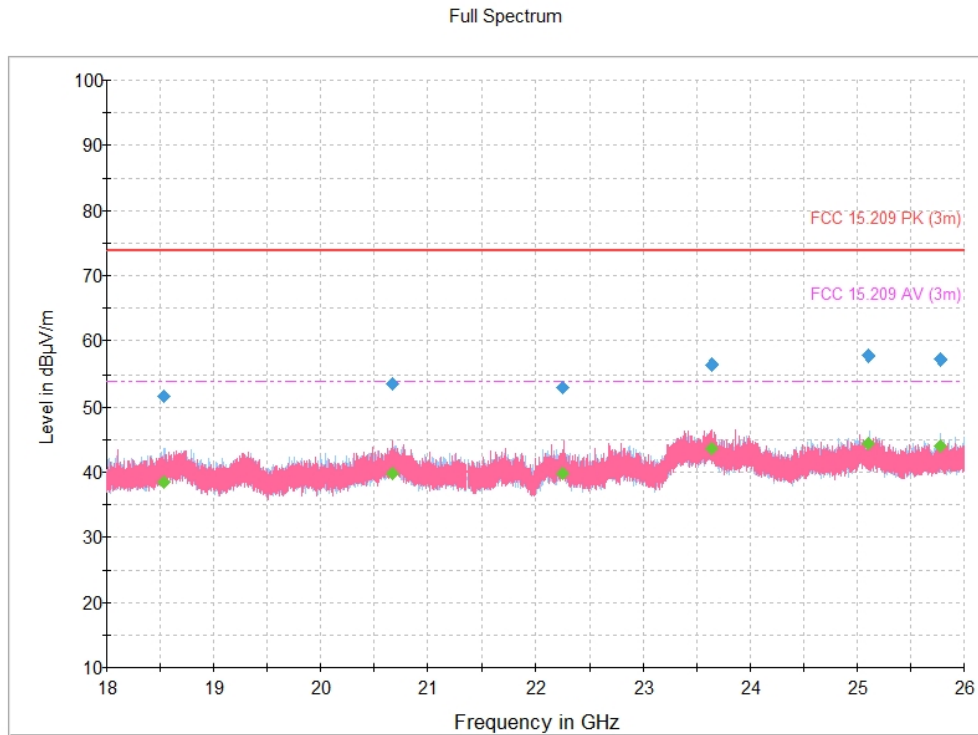


Figure 8.2-7: Radiated emissions, 2402 MHz, 18 – 26 GHz

Table 8.2-6: Radiated emissions, 2402 MHz, 18 – 26 GHz

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 18535.666667 | 51.73 | --- | 73.90 | 22.17 | 3000.0 | 1000.000 | 170.0 | H | 241.0 | 18.1 |
| 18535.666667 | --- | 38.39 | 53.90 | 15.51 | 3000.0 | 1000.000 | 170.0 | H | 241.0 | 18.1 |
| 20665.800000 | --- | 39.85 | 53.90 | 14.05 | 3000.0 | 1000.000 | 316.0 | V | 210.0 | 20.3 |
| 20665.800000 | 53.48 | --- | 73.90 | 20.42 | 3000.0 | 1000.000 | 316.0 | V | 210.0 | 20.3 |
| 22251.266667 | --- | 39.86 | 53.90 | 14.04 | 3000.0 | 1000.000 | 213.0 | V | 172.0 | 19.4 |
| 22251.266667 | 53.03 | --- | 73.90 | 20.87 | 3000.0 | 1000.000 | 213.0 | V | 172.0 | 19.4 |
| 23642.066667 | 56.39 | --- | 73.90 | 17.51 | 3000.0 | 1000.000 | 381.0 | V | 0.0 | 23.5 |
| 23642.066667 | --- | 43.55 | 53.90 | 10.35 | 3000.0 | 1000.000 | 381.0 | V | 0.0 | 23.5 |
| 25109.933333 | --- | 44.37 | 53.90 | 9.53 | 3000.0 | 1000.000 | 369.0 | H | 179.0 | 22.8 |
| 25109.933333 | 57.86 | --- | 73.90 | 16.04 | 3000.0 | 1000.000 | 369.0 | H | 179.0 | 22.8 |
| 25784.733333 | --- | 44.04 | 53.90 | 9.86 | 3000.0 | 1000.000 | 351.0 | H | 0.0 | 22.6 |
| 25784.733333 | 57.17 | --- | 73.90 | 16.73 | 3000.0 | 1000.000 | 351.0 | H | 0.0 | 22.6 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

Notes:

8.2.5 Test data, continued

Full Spectrum

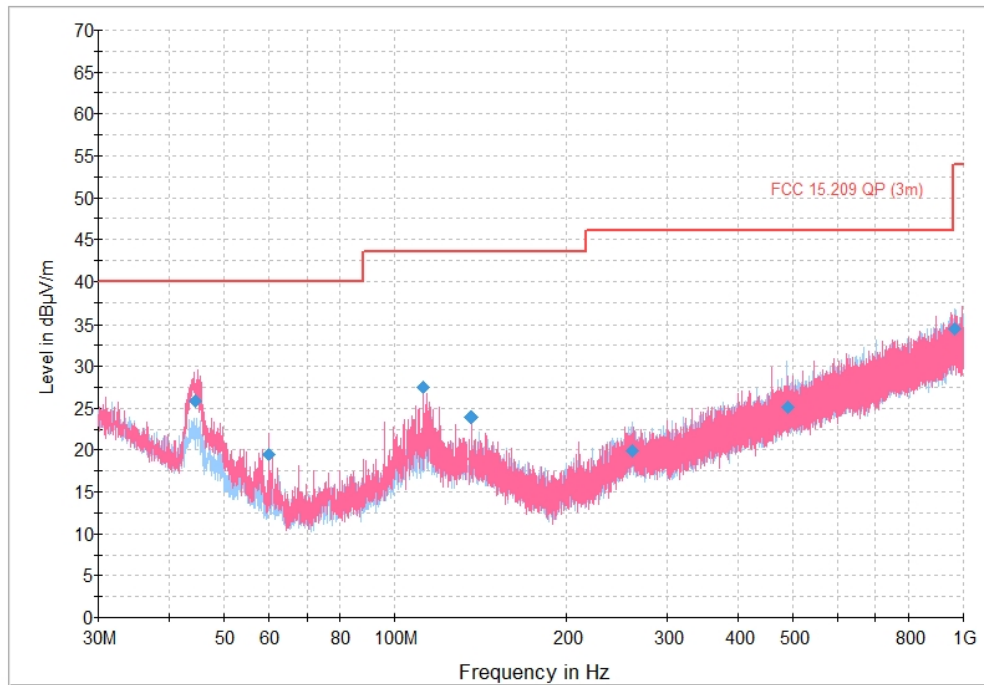


Figure 8.2-8: Radiated emissions, 2440 MHz, 30 – 1000 MHz

Table 8.2-7: Radiated emissions, 2440 MHz, 30 – 1000 MHz

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 44.601000 | 25.91 | 40.00 | 14.09 | 5000.0 | 120.000 | 98.0 | V | 312.0 | 18.6 |
| 60.005333 | 19.53 | 40.00 | 20.47 | 5000.0 | 120.000 | 135.0 | V | 107.0 | 12.7 |
| 112.029667 | 27.45 | 43.50 | 16.05 | 5000.0 | 120.000 | 389.0 | V | 91.0 | 18.9 |
| 136.021000 | 23.97 | 43.50 | 19.53 | 5000.0 | 120.000 | 383.0 | V | 92.0 | 19.7 |
| 260.880333 | 19.91 | 46.00 | 26.09 | 5000.0 | 120.000 | 263.0 | H | 90.0 | 22.1 |
| 489.490000 | 25.16 | 46.00 | 20.84 | 5000.0 | 120.000 | 292.0 | H | 136.0 | 26.9 |
| 964.917333 | 34.46 | 53.90 | 19.44 | 5000.0 | 120.000 | 241.0 | H | 160.0 | 34.7 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

Notes:

8.2.5 Test data, continued

Full Spectrum

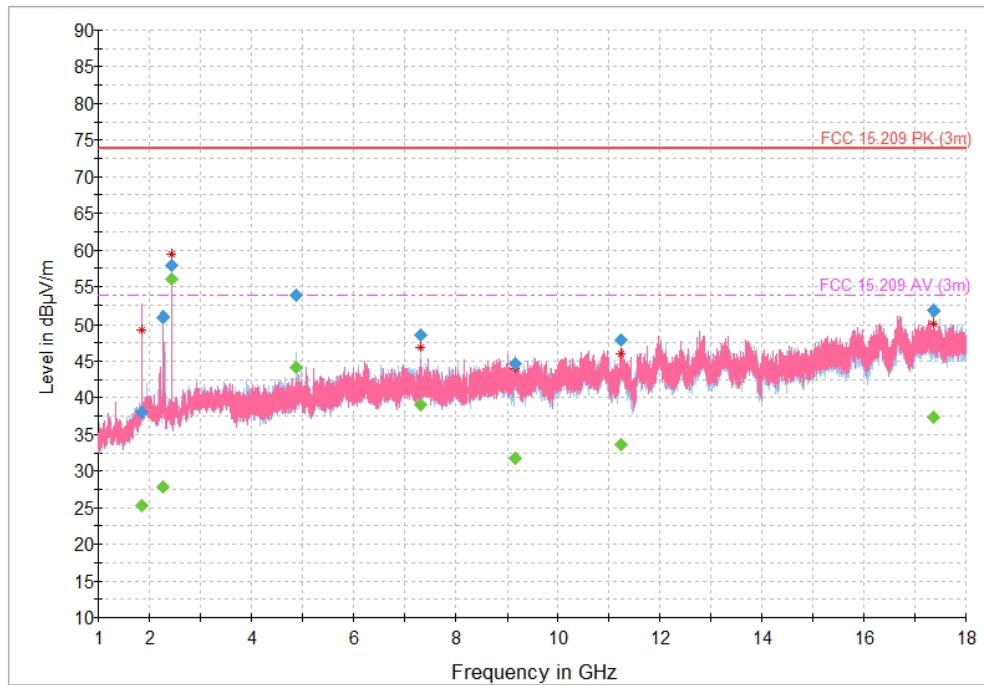


Figure 8.2-9: Radiated emissions, 2440 MHz, 1 – 18 GHz

Table 8.2-8: Radiated emissions, 2440 MHz, 1 – 18 GHz

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|----------------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 1853.900000 | 38.10 | --- | 73.90 | 35.80 | 5000.0 | 1000.000 | 232.0 | V | 127.0 | -11.3 |
| 1853.900000 | --- | 25.30 | 53.90 | 28.60 | 5000.0 | 1000.000 | 232.0 | V | 127.0 | -11.3 |
| 2279.933333 | --- | 27.85 | 53.90 | 26.05 | 5000.0 | 1000.000 | 160.0 | V | 358.0 | -10.4 |
| 2279.933333 | 50.92 | --- | 73.90 | 22.98 | 5000.0 | 1000.000 | 160.0 | V | 358.0 | -10.4 |
| 2439.900000 | Middle channel fundamental | | | | | | | | | |
| 2439.900000 | Middle channel fundamental | | | | | | | | | |
| 4880.133333 | 53.81 | --- | 73.90 | 20.09 | 5000.0 | 1000.000 | 268.0 | H | 327.0 | -2.0 |
| 4880.133333 | --- | 44.14 | 53.90 | 9.76 | 5000.0 | 1000.000 | 268.0 | H | 327.0 | -2.0 |
| 7319.866667 | 48.55 | --- | 73.90 | 25.35 | 5000.0 | 1000.000 | 201.0 | H | 208.0 | 0.8 |
| 7319.866667 | --- | 39.06 | 53.90 | 14.84 | 5000.0 | 1000.000 | 201.0 | H | 208.0 | 0.8 |
| 9149.866667 | --- | 31.66 | 53.90 | 22.24 | 5000.0 | 1000.000 | 392.0 | V | 0.0 | 3.2 |
| 9149.866667 | 44.64 | --- | 73.90 | 29.26 | 5000.0 | 1000.000 | 392.0 | V | 0.0 | 3.2 |
| 11241.733333 | --- | 33.60 | 53.90 | 20.30 | 5000.0 | 1000.000 | 194.0 | H | 58.0 | 4.6 |
| 11241.733333 | 47.80 | --- | 73.90 | 26.10 | 5000.0 | 1000.000 | 194.0 | H | 58.0 | 4.6 |
| 17363.800000 | --- | 37.31 | 53.90 | 16.59 | 5000.0 | 1000.000 | 227.0 | V | 256.0 | 13.4 |
| 17363.800000 | 51.72 | --- | 73.90 | 22.18 | 5000.0 | 1000.000 | 227.0 | V | 256.0 | 13.4 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Notes: Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

A 2.4 GHz notch filter was used to prevent overloading.

8.2.5 Test data, continued

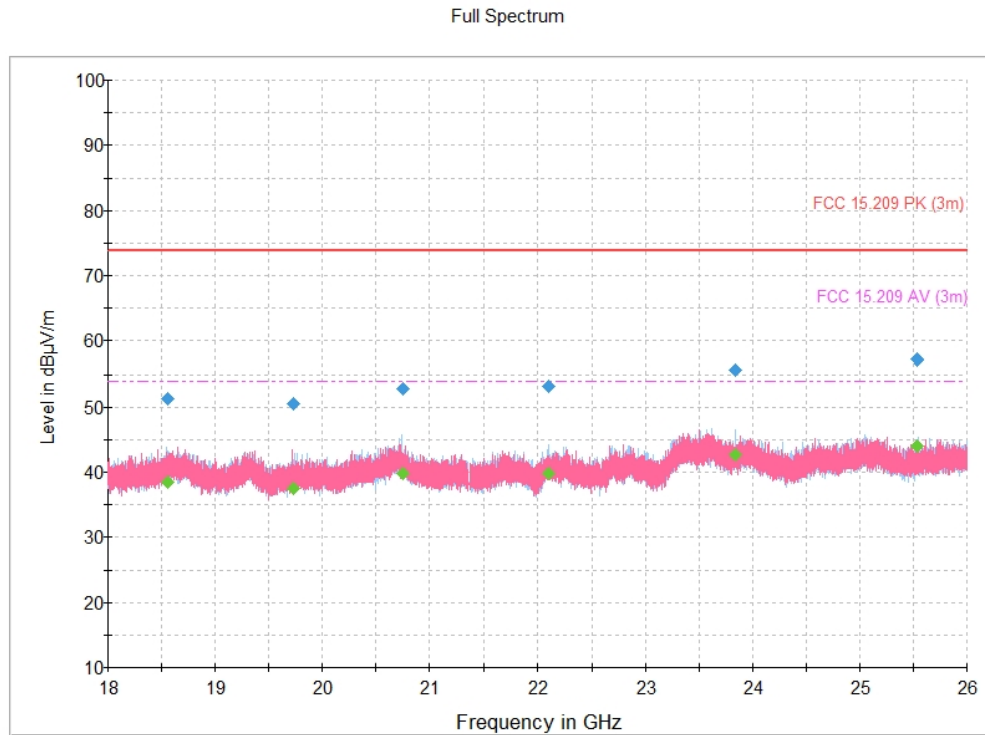


Figure 8.2-10: Radiated emissions, 2440 MHz, 18 – 26 GHz

Table 8.2-9: Radiated emissions, 2440 MHz, 18 – 26 GHz

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 18554.733333 | --- | 38.39 | 53.90 | 15.51 | 3000.0 | 1000.000 | 402.0 | H | 301.0 | 18.2 |
| 18554.733333 | 51.27 | --- | 73.90 | 22.63 | 3000.0 | 1000.000 | 402.0 | H | 301.0 | 18.2 |
| 19727.533333 | 50.57 | --- | 73.90 | 23.33 | 3000.0 | 1000.000 | 306.0 | V | 136.0 | 17.8 |
| 19727.533333 | --- | 37.50 | 53.90 | 16.40 | 3000.0 | 1000.000 | 306.0 | V | 136.0 | 17.8 |
| 20747.933333 | 52.79 | --- | 73.90 | 21.11 | 3000.0 | 1000.000 | 369.0 | H | 222.0 | 20.3 |
| 20747.933333 | --- | 39.84 | 53.90 | 14.06 | 3000.0 | 1000.000 | 369.0 | H | 222.0 | 20.3 |
| 22098.866667 | 53.13 | --- | 73.90 | 20.77 | 3000.0 | 1000.000 | 322.0 | H | 138.0 | 19.2 |
| 22098.866667 | --- | 39.89 | 53.90 | 14.01 | 3000.0 | 1000.000 | 322.0 | H | 138.0 | 19.2 |
| 23845.800000 | 55.73 | --- | 73.90 | 18.17 | 3000.0 | 1000.000 | 137.0 | H | 121.0 | 22.5 |
| 23845.800000 | --- | 42.77 | 53.90 | 11.13 | 3000.0 | 1000.000 | 137.0 | H | 121.0 | 22.5 |
| 25536.600000 | --- | 44.04 | 53.90 | 9.86 | 3000.0 | 1000.000 | 259.0 | H | 54.0 | 22.7 |
| 25536.600000 | 57.23 | --- | 73.90 | 16.67 | 3000.0 | 1000.000 | 259.0 | H | 54.0 | 22.7 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

Notes:

8.2.5 Test data, continued

Full Spectrum

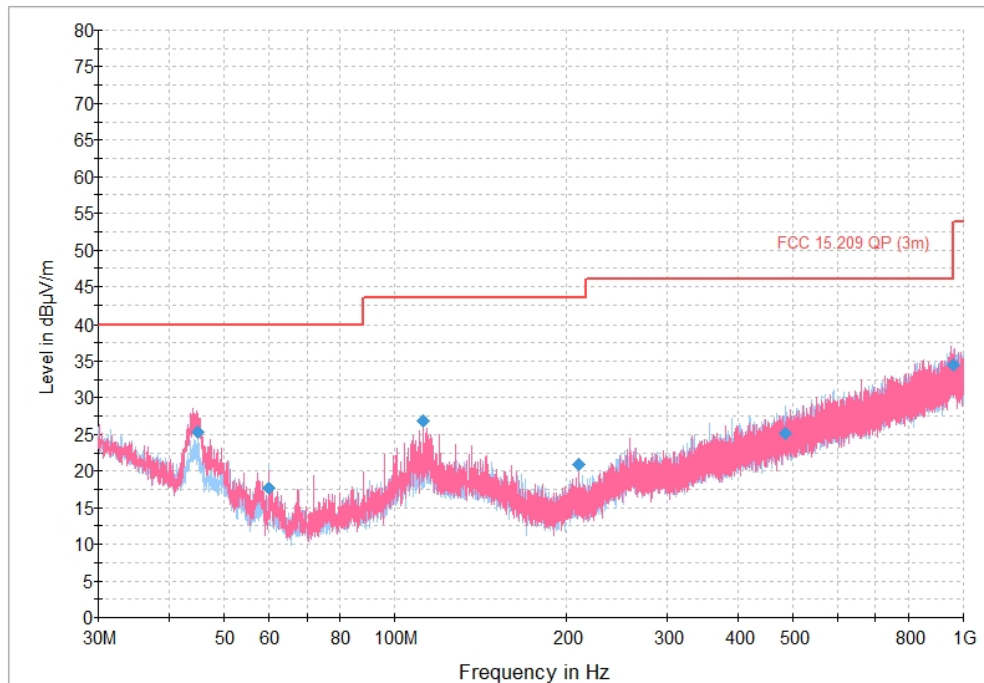


Figure 8.2-11: Radiated emissions, 2480 MHz, 30 – 1000 MHz

Table 8.2-10: Radiated emissions, 2480 MHz, 30 – 1000 MHz

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 45.048000 | 25.36 | 40.00 | 14.64 | 5000.0 | 120.000 | 98.0 | V | 12.0 | 18.4 |
| 60.013000 | 17.62 | 40.00 | 22.38 | 5000.0 | 120.000 | 171.0 | H | 23.0 | 12.7 |
| 112.062000 | 26.80 | 43.50 | 16.70 | 5000.0 | 120.000 | 402.0 | V | 270.0 | 18.9 |
| 209.999667 | 20.83 | 43.50 | 22.67 | 5000.0 | 120.000 | 200.0 | V | 56.0 | 18.2 |
| 485.795333 | 25.16 | 46.00 | 20.84 | 5000.0 | 120.000 | 240.0 | H | 272.0 | 26.9 |
| 960.516000 | 34.42 | 53.90 | 19.48 | 5000.0 | 120.000 | 171.0 | H | 129.0 | 34.7 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

Notes:

8.2.5 Test data, continued

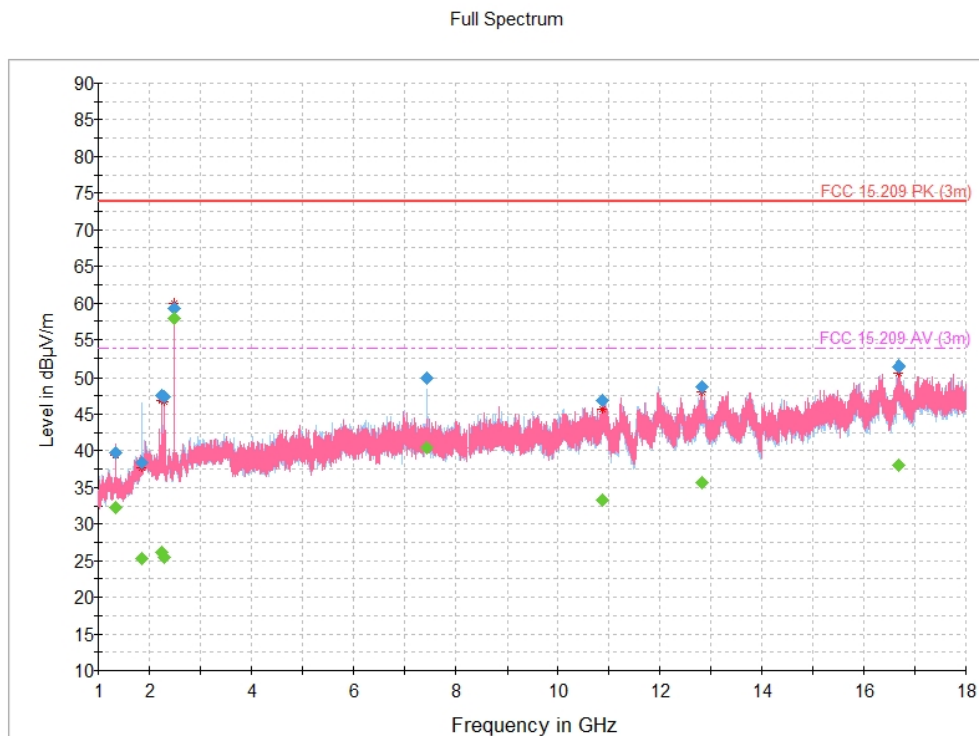


Figure 8.2-12: Radiated emissions, 2480 MHz, 1 – 18 GHz

Table 8.2-11: Radiated emissions, 2480 MHz, 1 – 18 GHz

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 1350.033333 | 39.78 | --- | 73.90 | 34.12 | 5000.0 | 1000.000 | 190.0 | V | 0.0 | -14.4 |
| 1350.033333 | --- | 32.23 | 53.90 | 21.67 | 5000.0 | 1000.000 | 190.0 | V | 0.0 | -14.4 |
| 1854.533333 | 38.29 | --- | 73.90 | 35.61 | 5000.0 | 1000.000 | 325.0 | H | 58.0 | -11.3 |
| 1854.533333 | --- | 25.25 | 53.90 | 28.65 | 5000.0 | 1000.000 | 325.0 | H | 58.0 | -11.3 |
| 2256.133333 | --- | 26.10 | 53.90 | 27.80 | 5000.0 | 1000.000 | 138.0 | V | 354.0 | -10.5 |
| 2256.133333 | 47.53 | --- | 73.90 | 26.37 | 5000.0 | 1000.000 | 138.0 | V | 354.0 | -10.5 |
| 2303.900000 | 47.33 | --- | 73.90 | 26.57 | 5000.0 | 1000.000 | 128.0 | V | 0.0 | -10.5 |
| 2303.900000 | --- | 25.47 | 53.90 | 28.43 | 5000.0 | 1000.000 | 128.0 | V | 0.0 | -10.5 |
| 2479.966667 | High channel fundamental | | | | | | | | | |
| 2479.966667 | High channel fundamental | | | | | | | | | |
| 7439.600000 | --- | 40.46 | 53.90 | 13.44 | 5000.0 | 1000.000 | 205.0 | H | 242.0 | 1.3 |
| 7439.600000 | 49.85 | --- | 73.90 | 24.05 | 5000.0 | 1000.000 | 205.0 | H | 242.0 | 1.3 |
| 10864.400000 | 46.90 | --- | 73.90 | 27.00 | 5000.0 | 1000.000 | 410.0 | H | 260.0 | 4.3 |
| 10864.400000 | --- | 33.19 | 53.90 | 20.71 | 5000.0 | 1000.000 | 410.0 | H | 260.0 | 4.3 |
| 12818.266667 | --- | 35.64 | 53.90 | 18.26 | 5000.0 | 1000.000 | 245.0 | V | 224.0 | 8.9 |
| 12818.266667 | 48.80 | --- | 73.90 | 25.10 | 5000.0 | 1000.000 | 245.0 | V | 224.0 | 8.9 |
| 16693.133333 | --- | 38.01 | 53.90 | 15.89 | 5000.0 | 1000.000 | 282.0 | V | 301.0 | 14.3 |
| 16693.133333 | 51.39 | --- | 73.90 | 22.51 | 5000.0 | 1000.000 | 282.0 | V | 301.0 | 14.3 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Notes: Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

A 2.4 GHz notch filter was used to prevent overloading.

8.2.5 Test data, continued

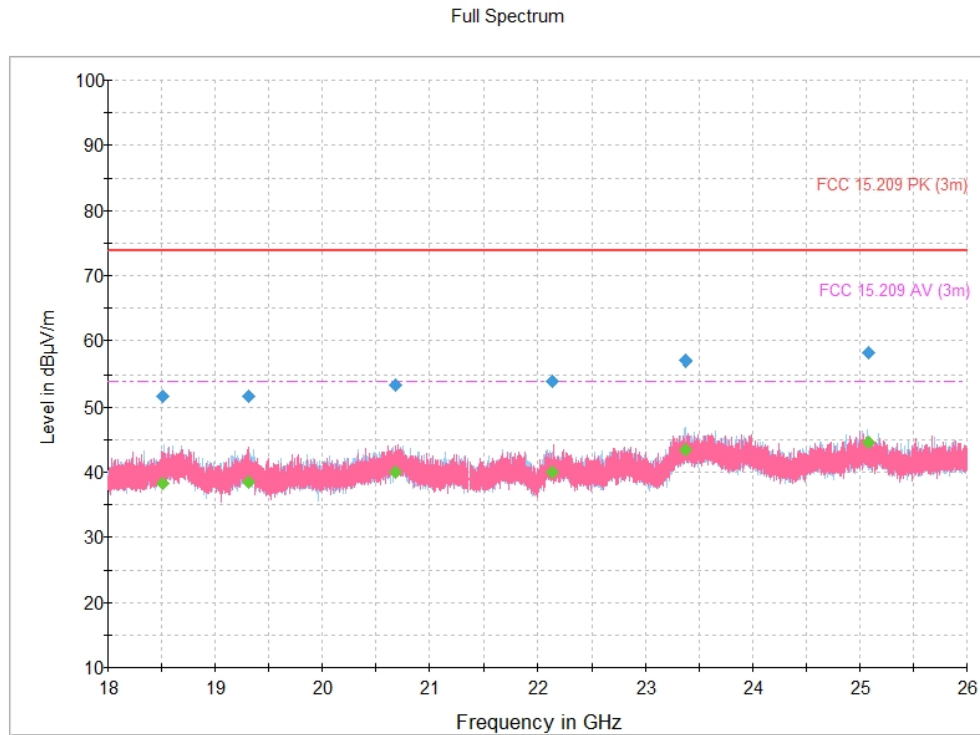


Figure 8.2-13: Radiated emissions, 2480 MHz, 18 – 26 GHz

Table 8.2-12: Radiated emissions, 2480 MHz, 18 – 26 GHz

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 18515.000000 | --- | 38.22 | 53.90 | 15.68 | 3000.0 | 1000.000 | 410.0 | H | 333.0 | 18.0 |
| 18515.000000 | 51.57 | --- | 73.90 | 22.33 | 3000.0 | 1000.000 | 410.0 | H | 333.0 | 18.0 |
| 19306.866667 | 51.67 | --- | 73.90 | 22.23 | 3000.0 | 1000.000 | 284.0 | V | 152.0 | 18.6 |
| 19306.866667 | --- | 38.55 | 53.90 | 15.35 | 3000.0 | 1000.000 | 284.0 | V | 152.0 | 18.6 |
| 20687.133333 | --- | 39.98 | 53.90 | 13.92 | 3000.0 | 1000.000 | 272.0 | V | 138.0 | 20.5 |
| 20687.133333 | 53.46 | --- | 73.90 | 20.44 | 3000.0 | 1000.000 | 272.0 | V | 138.0 | 20.5 |
| 22137.533333 | 53.90 | --- | 73.90 | 20.00 | 3000.0 | 1000.000 | 180.0 | V | 0.0 | 19.3 |
| 22137.533333 | --- | 40.00 | 53.90 | 13.90 | 3000.0 | 1000.000 | 180.0 | V | 0.0 | 19.3 |
| 23370.866667 | --- | 43.42 | 53.90 | 10.48 | 3000.0 | 1000.000 | 320.0 | H | 0.0 | 23.0 |
| 23370.866667 | 56.99 | --- | 73.90 | 16.91 | 3000.0 | 1000.000 | 320.0 | H | 0.0 | 23.0 |
| 25078.066667 | --- | 44.65 | 53.90 | 9.25 | 3000.0 | 1000.000 | 340.0 | H | 106.0 | 22.9 |
| 25078.066667 | 58.10 | --- | 73.90 | 15.80 | 3000.0 | 1000.000 | 340.0 | H | 106.0 | 22.9 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

Notes:

8.2.5 Test data, continued

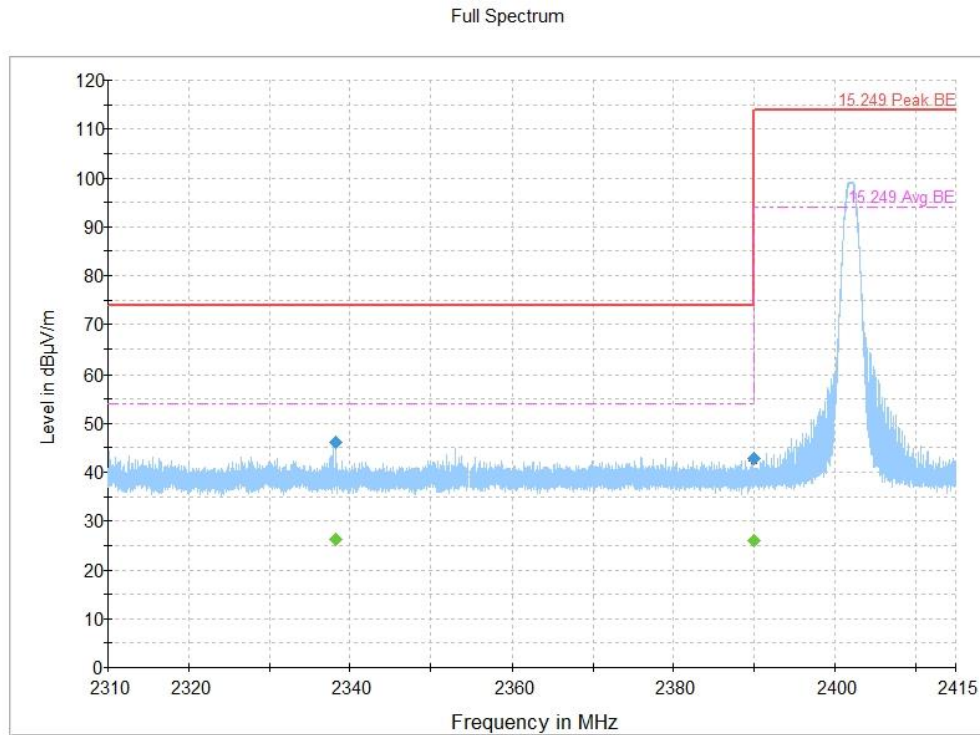


Figure 8.2-14: Radiated emissions, restricted band edge, low

Table 8.2-13: Radiated emissions, restricted band edge, low

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 2338.252000 | --- | 26.28 | 53.90 | 27.62 | 5000.0 | 1000.000 | 100.0 | V | 355.0 | -10.4 |
| 2338.252000 | 46.24 | --- | 73.90 | 27.66 | 5000.0 | 1000.000 | 100.0 | V | 355.0 | -10.4 |
| 2390.000000 | --- | 26.05 | 53.90 | 27.85 | 5000.0 | 1000.000 | 107.0 | V | 339.0 | -10.1 |
| 2390.000000 | 42.76 | --- | 73.90 | 31.14 | 5000.0 | 1000.000 | 107.0 | V | 339.0 | -10.1 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Notes:

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

8.2.5 Test data, continued

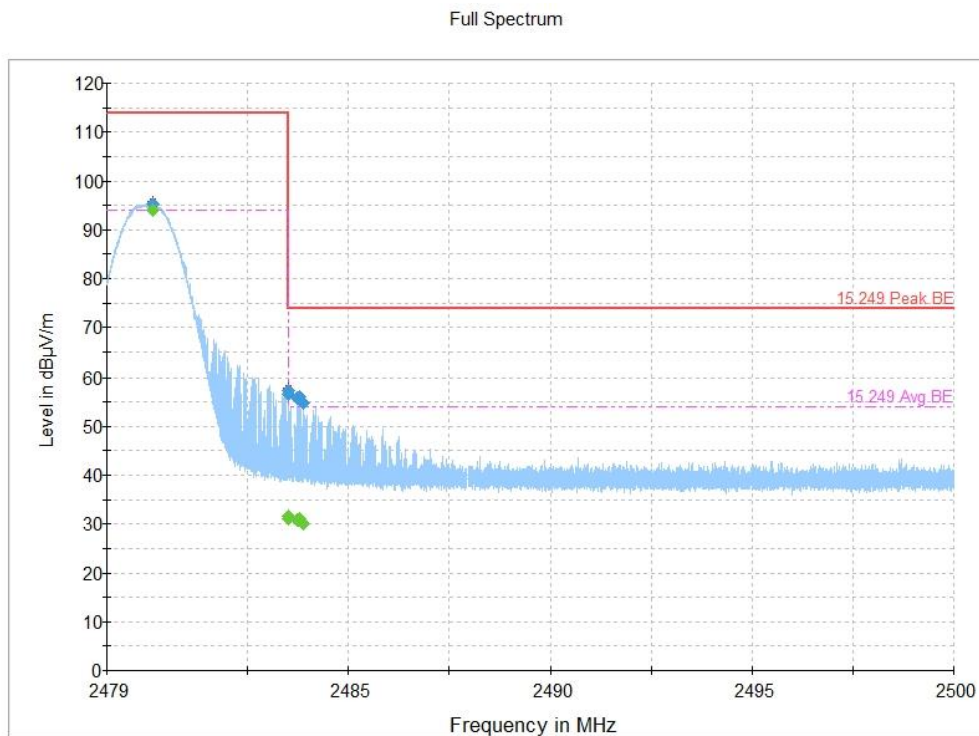


Figure 8.2-15: Radiated emissions, restricted band edge, high

Table 8.2-14: Radiated emissions, restricted band edge, high

| Frequency (MHz) | MaxPeak (dBµV/m) | CAverage (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|-------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 2480.155000 | --- | 94.10 | 94.00 | -0.10 | 5000.0 | 1000.000 | 127.0 | V | 339.0 | -9.5 |
| 2480.155000 | 95.39 | --- | 114.00 | 18.61 | 5000.0 | 1000.000 | 127.0 | V | 339.0 | -9.5 |
| 2483.500000 | --- | 31.53 | 53.90 | 22.37 | 5000.0 | 1000.000 | 98.0 | V | 322.0 | -9.5 |
| 2483.500000 | 57.35 | --- | 73.90 | 16.55 | 5000.0 | 1000.000 | 98.0 | V | 322.0 | -9.5 |
| 2483.508700 | --- | 31.11 | 53.90 | 22.79 | 5000.0 | 1000.000 | 162.0 | V | 348.0 | -9.5 |
| 2483.508700 | 56.55 | --- | 73.90 | 17.35 | 5000.0 | 1000.000 | 162.0 | V | 348.0 | -9.5 |
| 2483.740400 | --- | 30.70 | 53.90 | 23.20 | 5000.0 | 1000.000 | 162.0 | V | 0.0 | -9.5 |
| 2483.740400 | 55.86 | --- | 73.90 | 18.04 | 5000.0 | 1000.000 | 162.0 | V | 0.0 | -9.5 |
| 2483.765600 | --- | 30.83 | 53.90 | 23.07 | 5000.0 | 1000.000 | 166.0 | V | 0.0 | -9.5 |
| 2483.765600 | 55.83 | --- | 73.90 | 18.07 | 5000.0 | 1000.000 | 166.0 | V | 0.0 | -9.5 |
| 2483.800600 | --- | 30.96 | 53.90 | 22.94 | 5000.0 | 1000.000 | 98.0 | V | 330.0 | -9.5 |
| 2483.800600 | 55.95 | --- | 73.90 | 17.95 | 5000.0 | 1000.000 | 98.0 | V | 330.0 | -9.5 |
| 2483.885300 | --- | 30.17 | 53.90 | 23.73 | 5000.0 | 1000.000 | 162.0 | V | 342.0 | -9.5 |
| 2483.885300 | 54.77 | --- | 73.90 | 19.13 | 5000.0 | 1000.000 | 162.0 | V | 342.0 | -9.5 |

Field strength (dBµV/m) = receiver/spectrum analyzer value (dBµV) + correction factor (dB)

Correction factors = antenna factor ACF (dB) + cable loss (dB)

Limits converted to dBµV/m and an inverse proportionality factor of 20 dB per decade has been used to normalize the specification limit to a measurement distance of 3 meters to determine compliance.

Notes:

Section 9 Block diagrams of test set-ups

9.1 Radiated emissions set-up

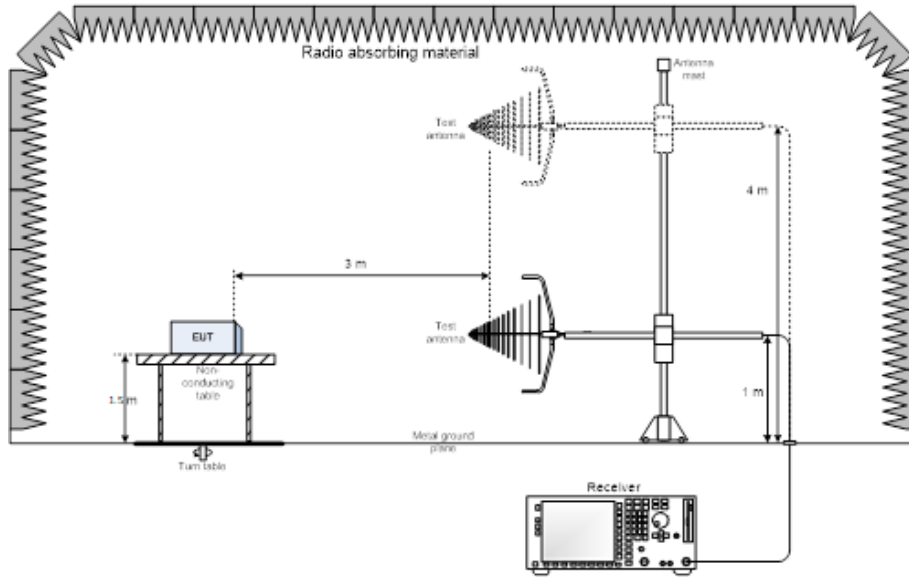


Figure 9.1-1 30 MHz - 1000 MHz Setup

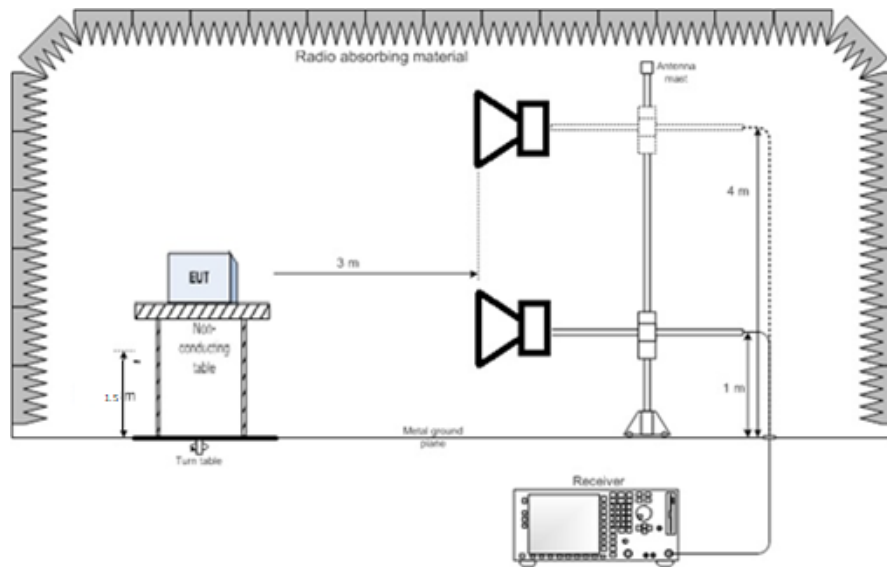


Figure 9.1-2 1 GHz - 26 GHz Setup

Thank you for choosing

