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|-----------------|-----------------|---------|---------|
| Document Title: | EMC Test Report | | |
| Report No.: | CERT2028 | Version | Rev 3.0 |

Radio Test Report

Product Name: Linux Communication Board.

Model Name: 2AGPT-PLNX3.

Applicant: SolarEdge Technologies Ltd.
1 HaMada Street, Herzeliya 4673335, Israel
Tel: +972-9-9576620.

Standards: 47 CFR FCC Part 15C, §15.247
ANSI C63.10:2020+COR.1- 2023
Canada RSS-247 Issue 3 (2023)
Canada RSS-Gen Issue 5 (2021) AMD 2

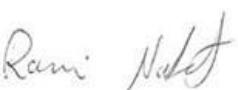
Test Date: 15 April 2025 - 20 April 2025

Issued Date: 1 September 2025

Tested by:


Test Engineer -- Ilya Manski

Approved by:


EMC Lab Manager – Rami Nataf

Prepared by: EMC & Radio Laboratory-Solaredge
10 Tzela HaHar st., POB 56 Modi'in
711001 Israel Tel: +972-52-4006994

Verdict Summary: Pass



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1. Test Summary

| FCC Rules | ISEDC Rules | Test description | Verdict ¹ |
|------------------------------------|-----------------------------------|---|----------------------|
| FCC §15.209, §15.205 §15.247(D) | RSS-GEN § 8.10 RSS-247 § 5.5 | Spurious Emissions and Restricted Bands Compliance | Pass |
| FCC §15.247(A) | RSS-GEN § 6.7 RSS-247 § 5.2(A) | 6dB Bandwidth & Occupied Bandwidth | Pass |
| FCC §15.247(E) | RSS-247 §5.2(B) | Power Spectral Density | Pass |
| FCC §15.247(B)(3) | RSS-247 §5.4(D) | Maximum Conducted Output Power | Pass |
| FCC §15.247(D) | RSS-247 §5.5 | Conducted Out of Band Emission & Frequency Band Edge | Pass |
| FCC §15.207(A) | RSS-Gen §8.8 | Conducted Emissions, Power Line | Pass |
| FCC §15.203 | RSS-GEN §6.8 | Antenna Requirement | Pass |

¹ Based on the test result only, not include the measurement uncertainty ULab(dB) which is described on para. 3.4.

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2. Revision History

| Version | Date | Performed By | Note |
|---------|----------------|--------------|--|
| 1.0 | 16 June 2025 | Ilya Manski | |
| 2.0 | 21 August 2025 | Ilya Manski | Revised according to the certification body comments |
| 3.0 | 31 August 2025 | Ilya Manski | Revised according to the certification body comments |

3. Test Facility

3.1. Address of the Laboratory:

10 Tzela HaHar st.,POB 56 Modi'in 7171001, Israel, Tel-972-52-4006994

3.2. Laboratory Accreditation/recognition/certification

- A2la - The Certificate Registration Number: 6185.01
- FCC Registration - Firm Registration Number: 898943
- IC-Registration - The Certificate Registration Number: IL1008

3.3. Software used:

| Software Name | Software Version | Test Name |
|---------------|-------------------------------|---------------|
| Keysight | A.33.03 SW version for N9038B | Radio testing |
| Keysight | BenchVue 2020 update 2.0 | |
| Radimation | RadiMation 2025.1.2 | |

3.4. Measurement Uncertainty

The calculated uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| Parameter | Measurement Uncertainty (+/-) | Units |
|-----------------------------------|-------------------------------|-------|
| Occupied Channel Bandwidth | 0.26 | % |
| RF Output Power, conducted | 1.20 | dB |
| Power Spectral Density, Conducted | 1.05 | dB |
| Spurious emissions, conducted | 1.05 | dB |
| All emissions, radiated | 4.86 | dB |
| Temperature | 1.6 | °C |
| Humidity | 1 | % |
| DC and low-frequency voltages | 0.9 | % |

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4. General Information

EUT Description:

| | |
|-----------------------------|-------------------------|
| Test Model | 2AGPT-PLNX3. |
| Modulation Type | OQPSK |
| Nominal Operating Frequency | 906-924MHz |
| Number of Channels | 10 |
| Max AVG Power | 15.03dBm |
| FCC ID: | 2AGPT-PLNX3 |
| IC: | 20916-PLNX3, HVIN:PLNX3 |

Antenna Details

| Model | Type | Brand | PN | Freq. (MHz) | Connector | Max. Gain 860-930MHz |
|--------------|--------------------------------|-----------|---------|----------------------|-----------|-------------------------|
| AS0001-ANT-2 | Dual Band Dipole Antenna | SolarEdge | D2224AC | 860-930 2400-2500 | RP SMA | 1.8dBi |

AC/DC adapter details:

| Model | Input | Output |
|------------------|------------------------|-----------------|
| FD10K-15120-1000 | 100-240V~50/60Hz 0.50A | 12.0V DC 1000mA |

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4.1. Description of Test Configuration

The system was configured for testing in engineering mode.

Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 906 | 6 | 916 |
| 2 | 908 | 7 | 918 |
| 3 | 910 | 8 | 920 |
| 4 | 912 | 9 | 922 |
| 5 | 914 | 10 | 924 |

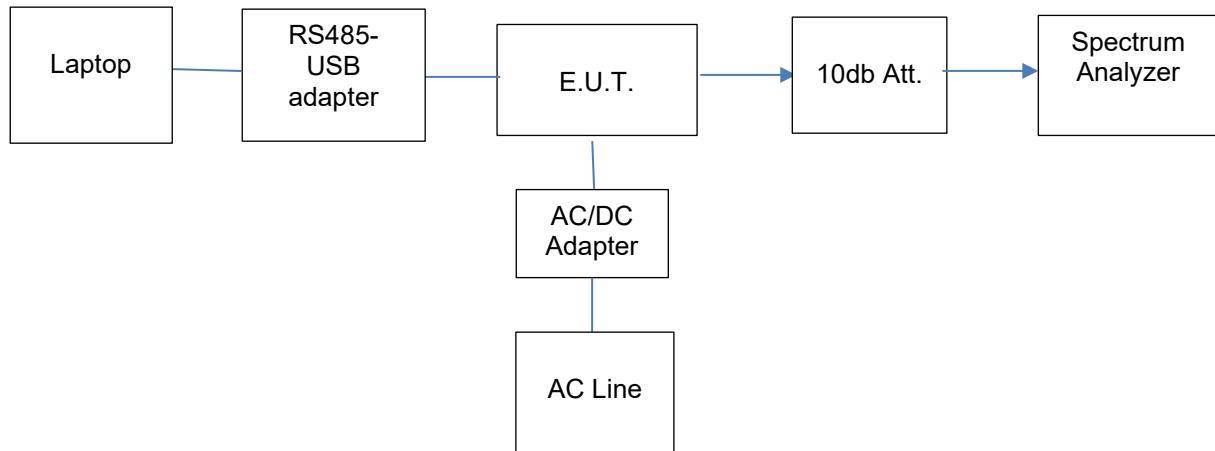
EUT tested on channels 1, 5, and 10.

EUT Exercise Software

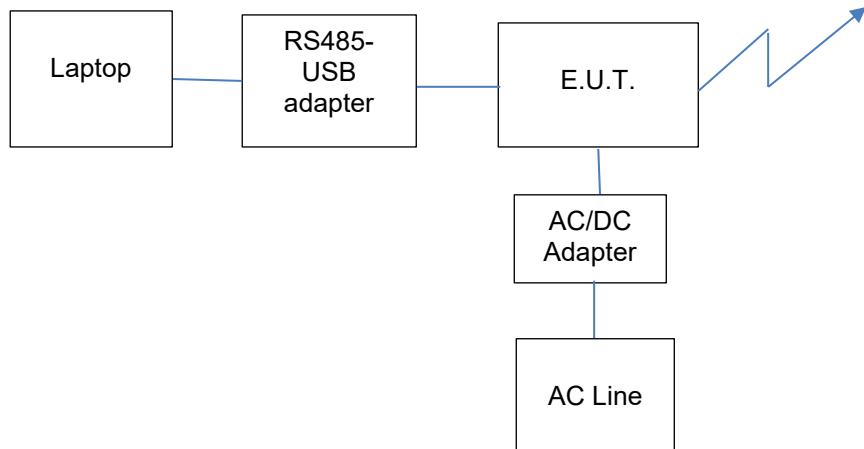
“SolarEdge Mercurymon.application.exe” exercise software was used, and the power level is 17. The software and power level provided by the manufacturer.

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4.2. Configuration of Tested System - Conducted

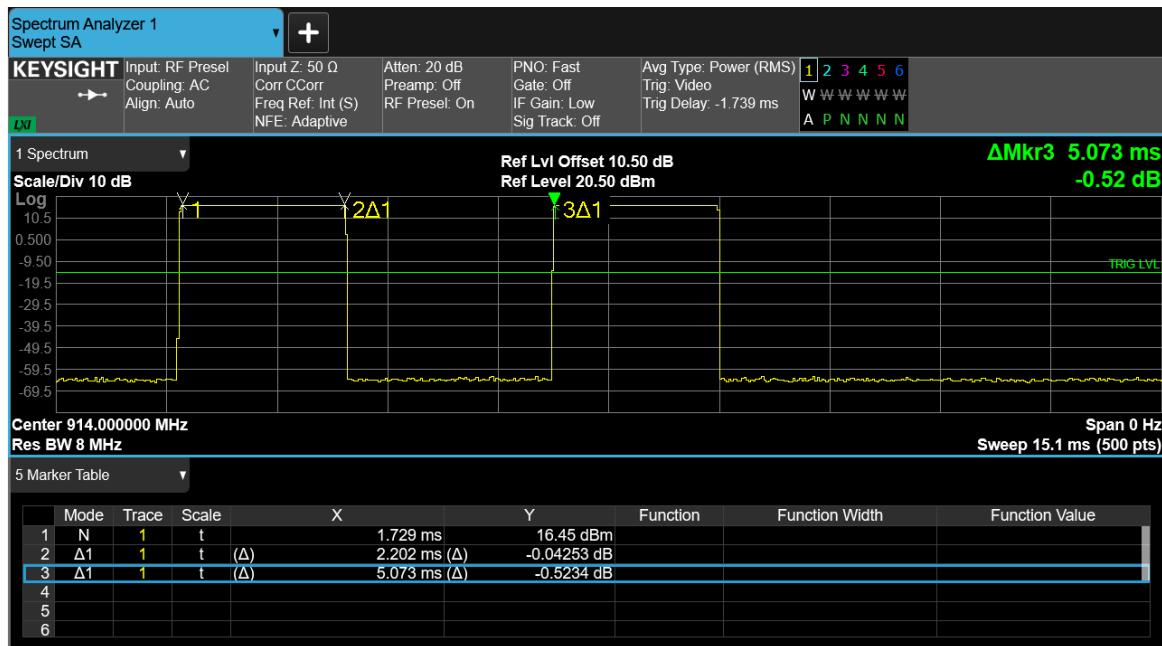


4.3. Configuration of Tested System – Radiated



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5. Transmission duration of Test Signal



| Test Frequency (MHz) | Ton (ms) |
|----------------------|----------|
| 914 | 2.202 |

| | | | |
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6. Spurious Emission and Restricted Bands Compliance

| | | | |
|---|---|--|--|
| Test Date: | 15-Apr-25 | Temperature: | 23°C |
| Tested By: | Ilya Manski | Pressure: | 1030.2 hPa |
| Test Standard: | FCC §15.209, §15.205 §15.247(D) RSS-GEN § 8.10 RSS-247 § 5.5 | Relative Humidity: | 45% |
| Test Procedure: | ANSI C63.10-2020+Cor.1- 2023 RSS-247 Issue 3 RSS-Gen Issue 5 | Photograph: | Annex II |
| EUT orientation worst case- (3 orientations were investigated, X/Y/Z) | stand-up position (Y axis)- worst case | Measurement antenna < 30MHz orientation | Parallel, perpendicular, and ground-parallel |
| | | Measurement antenna > 30MHz polarization | Vertical, Horizontal |

6.1. Test Requirement:

| | |
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| Normal test conditions | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). |
|------------------------|--|

6.2. Limits of Radiated Emission Measurement

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

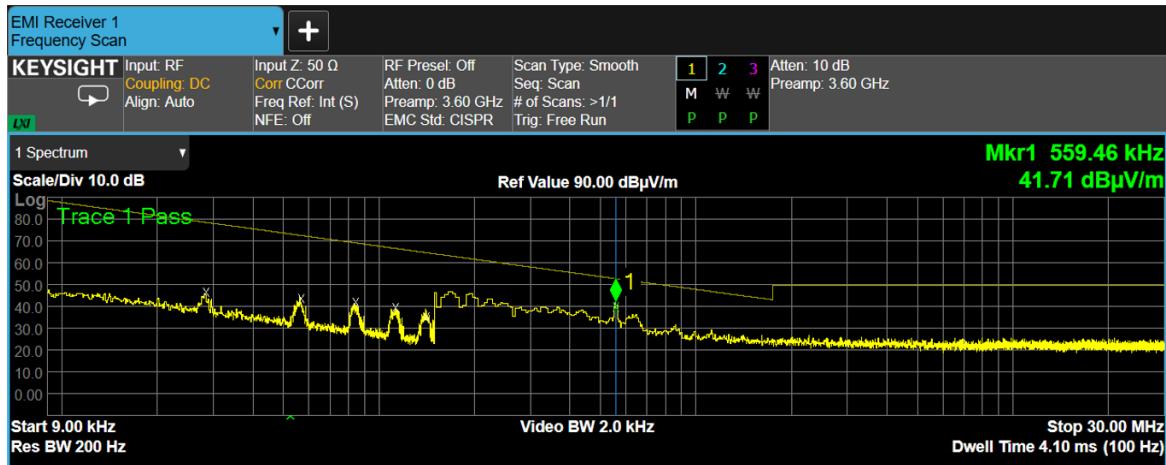
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6.3. Test Results:

6.3.1. Freq. Range 9kHz – 30MHz - worst case.

| Frequency (kHz) | Emission Level QP (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Angle (degrees) | Height (m) | Antenna orientation | Verdict |
|--|----------------------------------|----------------------|-------------|-----------------|------------|---------------------|---------|
| 557.47 | 38.726 | 72.683 | -33.957 | 180 | 1 | Parallel | Pass |
| All other emissions were 20 dB below the relevant limit with respect to the relevant detectors | | | | | | | |

Spurious Emission Plot 9kHz - 30MHz worst case Parallel orientation



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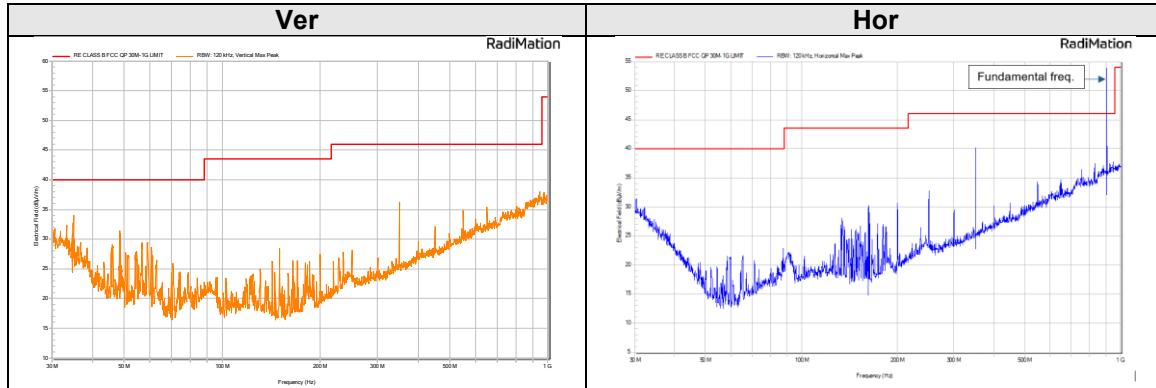
6.3.2. Freq. Range 30MHz – 1GHz - worst case.

| Frequency (MHz) | Emission Level QP (dB μ V/m) | QP Limit (dB μ V/m) | QP Margin (dB) | Angle (degrees) | Height (m) | Polarization | Verdict |
|-----------------|----------------------------------|-------------------------|----------------|-----------------|------------|--------------|---------|
| 34.74 | 24.4 | 40 | -15.6 | -160 | 1.48 | Vertical | Pass |
| 48.54 | 22 | 40 | -18.0 | -80 | 1.48 | Vertical | Pass |
| 161.997 | 17.9 | 43.5 | -25.6 | -190 | 2.48 | Horizontal | Pass |
| 199.994 | 33.2 | 40 | -6.8 | 200 | 1.5 | Horizontal | Pass |
| 250.003 | 32.5 | 47 | -14.5 | 70 | 1 | Horizontal | Pass |
| 349.997 | 39.3 | 46 | -6.7 | 10 | 1 | Horizontal | Pass |

Note:

1. Emission Level_[dB μ V/m] = Scan emission level_[dB μ V] + Antenna Factor_[dB/m] + Cable loss_[dB]
2. Margin value = Emission Level - Limit value

Spurious Emission Plot 30MHz – 1GHz



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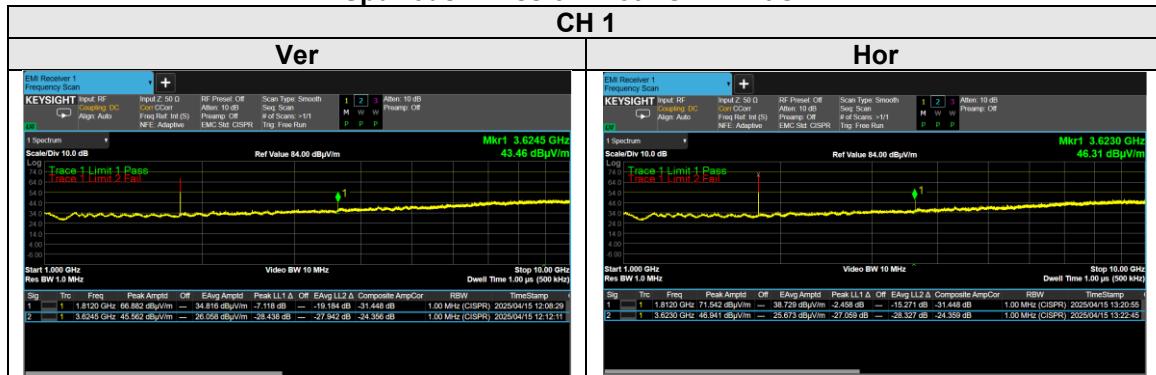
6.3.3. Freq. Range 1GHz – 10GHz Channel 1

| Freq. (MHz) | Pol. (V/H) | Ant. Height (m.) | Table Angle (deg.) | Emission Level (dB μ V/m) | Detector | LIMIT (dB μ V/m) | Margin (dB) | Verdict |
|-------------|------------|------------------|--------------------|-------------------------------|----------|----------------------|-------------|---------|
| 1812* | V | 2 | 180 | 66.882 | PK | 93 | -26.118 | Pass |
| 3624 | V | 2 | 180 | 45.562 | PK | 74 | -28.438 | Pass |
| | | | | 26.058 | AV | 54 | -27.942 | Pass |
| 1812* | H | 2 | 180 | 71.542 | PK | 93 | -21.458 | Pass |
| 3624 | H | 2 | 180 | 46.941 | PK | 74 | -27.059 | Pass |
| | | | | 25.673 | AV | 54 | -28.327 | Pass |

Note:

1. Emission Level_[dB μ V/m] = Scan emission level_[dB μ V] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level - Limit value.
3. ** – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 10GHz



Note:

The message “Trace 1 Limit 2 Fail” is not relevant due to the following reasons:

1. The spur in the peak exceeds the **Average** limit.
2. The spur is not located within a restricted band; therefore, these limits do not apply to this spur.

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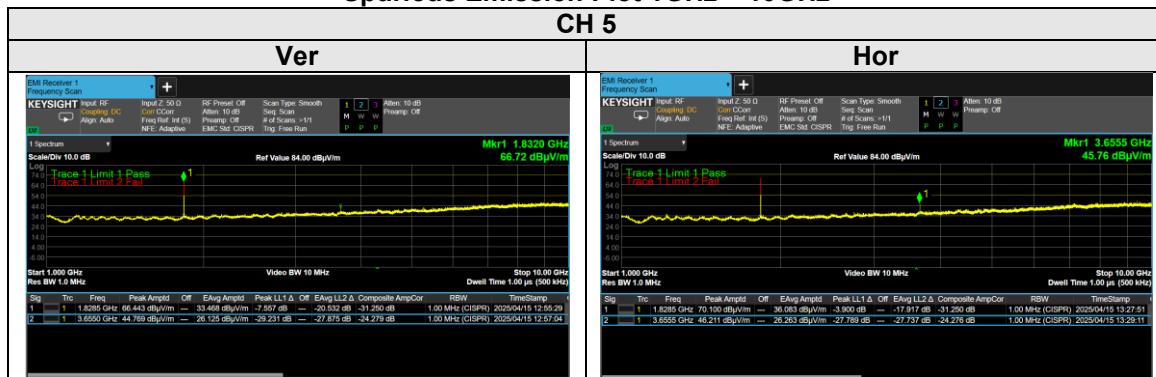
6.3.4. Freq. Range 1GHz – 10GHz Channel 5

| Freq. (MHz) | Pol. (V/H) | Ant. Height (m.) | Table Angle (deg.) | Emission Level (dB μ V/m) | Detector | LIMIT (dB μ V/m) | Margin (dB) | Verdict |
|-------------|------------|------------------|--------------------|-------------------------------|----------|----------------------|-------------|---------|
| 1828* | V | 2 | 180 | 66.443 | PK | 93 | -26.557 | Pass |
| 3656 | V | 2 | 180 | 44.769 | PK | 74 | -29.231 | Pass |
| | | | | 26.125 | AV | 54 | -24.279 | Pass |
| 1828* | H | 2 | 180 | 70.100 | PK | 93 | -22.900 | Pass |
| 3656 | H | 2 | 180 | 46.211 | PK | 74 | -27.789 | Pass |
| | | | | 26.263 | AV | 54 | -24.276 | Pass |

Note:

4. Emission Level_[dB μ V/m] = Scan emission level_[dB μ V] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
5. Margin value = Emission Level - Limit value.
6. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 10GHz



Note:

The message “Trace 1 Limit 2 Fail” is not relevant due to the following reasons:

1. The spur in the peak exceeds the **Average** limit.
2. The spur is not located within a restricted band; therefore, these limits do not apply to this spur.

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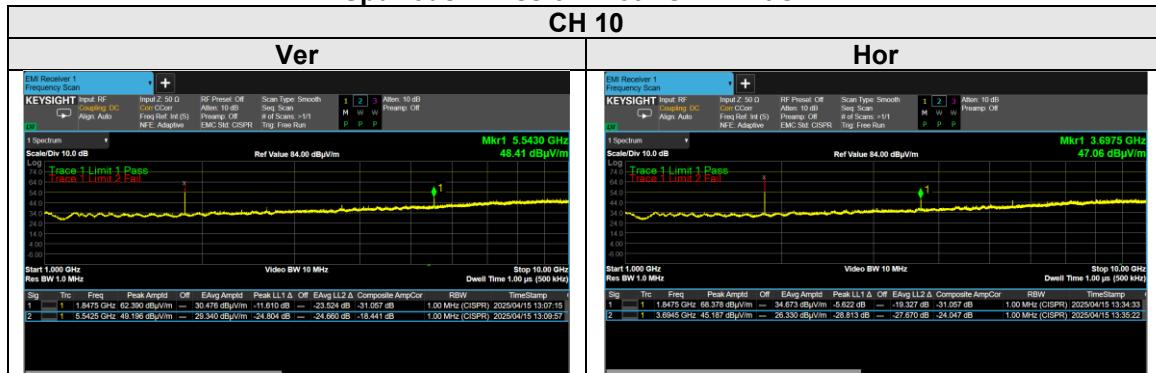
6.3.5. Freq. Range 1GHz – 10GHz Channel 10

| Freq. (MHz) | Pol. (V/H) | Ant. Height (m.) | Table Angle (deg.) | Emission Level (dB _μ V/m) | Detector | LIMIT (dB _μ V/m) | Margin (dB) | Verdict |
|-------------|------------|------------------|--------------------|--------------------------------------|----------|-----------------------------|-------------|---------|
| 1847* | V | 2 | 180 | 62.390 | PK | 93 | -30.610 | Pass |
| 3696 | V | 2 | 180 | 44.283 | PK | 74 | -29.717 | Pass |
| | | | | 26.156 | AV | 54 | -27.844 | Pass |
| 1847* | H | 2 | 180 | 68.378 | PK | 93 | -24.622 | Pass |
| | | | | 47.187 | PK | 74 | -26.813 | Pass |
| 3696 | H | 2 | 180 | 26.330 | AV | 54 | -24.047 | Pass |

Note:

7. Emission Level_[dB_μV/m] = Scan emission level_[dB_μV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
8. Margin value = Emission Level - Limit value.
9. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 10GHz



Note:

The message “Trace 1 Limit 2 Fail” is not relevant due to the following reasons:

1. The spur in the peak exceeds the **Average** limit.
2. The spur is not located within a restricted band; therefore, these limits do not apply to this spur.

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7. 6 dB bandwidth & Occupied bandwidth

| | | | |
|-----------------|--|--------------------|------------|
| Test Date: | 17-Apr-25 | Temperature: | 23°C |
| Tested By: | Ilya Manski | Pressure: | 1030.2 hPa |
| Test Standard: | FCC §15.247(A)(2) RSS-GEN § 6.7 RSS-247 § 5.2(A) | Relative Humidity: | 45% |
| Test Procedure: | ANSI C63.10-2020 +Cor.1- 2023 RSS-247 Issue 3 RSS-Gen Issue 5 | Photograph: | Annex II |

7.1. Test Requirement:

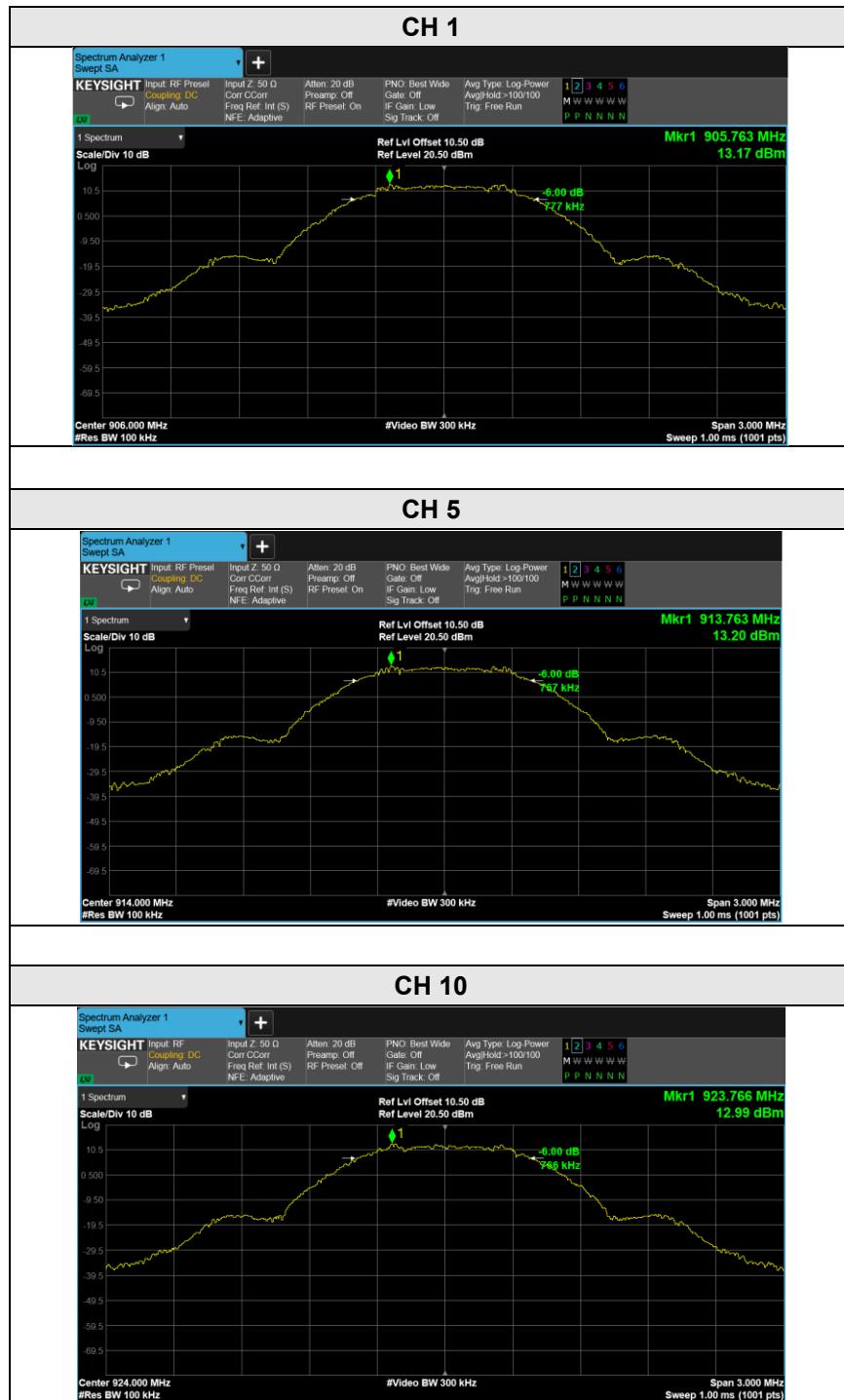
| | |
|------------------------|---|
| Normal test conditions | Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725–5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz |
|------------------------|---|

7.2. Test Result:

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Verdict |
|---------|-----------------|--------------------------|----------------------|---------------------|---------|
| 1 | 906 | 1.107 | 0.777 | >0.5 | Pass |
| 5 | 914 | 1.112 | 0.767 | >0.5 | Pass |
| 10 | 924 | 1.114 | 0.766 | >0.5 | Pass |

| | | | |
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7.3. 6 dB bandwidth Measurement Plots



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7.4. Occupied bandwidth Measurement Plots



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8. Power Spectral Density

| | | | |
|-----------------|---|--------------------|------------|
| Test Date: | 17-Apr-25 | Temperature: | 23°C |
| Tested By: | Ilya Manski | Pressure: | 1030.2 hPa |
| Test Standard: | FCC §15.247(E) RSS-247 §5.2(B) | Relative Humidity: | 45% |
| Test Procedure: | RSS-247 Issue 3 ANSI C63.10-2020+Cor.1-2023 Method AVGPSD-3 | Photograph: | Annex II |

8.1. Test Requirement:

| | |
|------------------------|--|
| Normal test conditions | For digitally modulated systems, 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
|------------------------|--|

8.2. Limits of Power Spectral Density Measurement

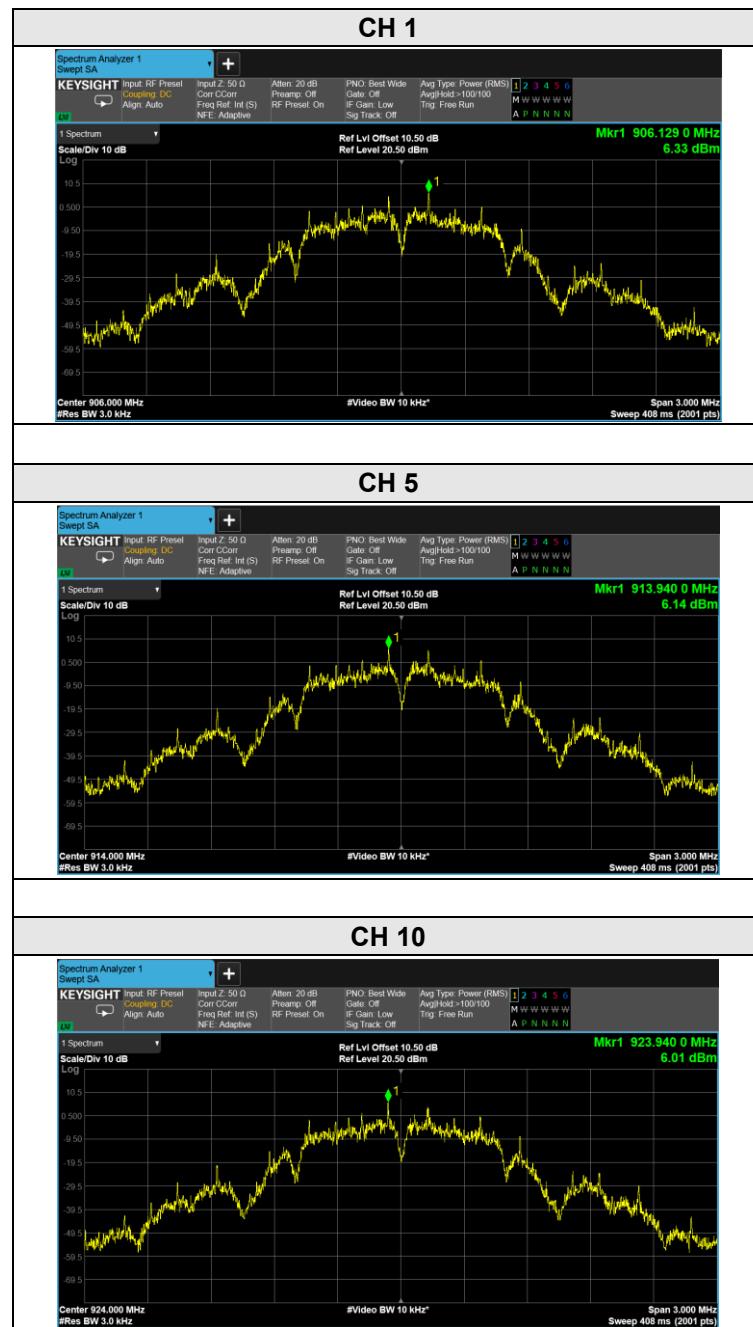
The Maximum of Power Spectral Density Measurement is 8(dBm/3kHz)

8.3. Test Result per Method AVGPSD-3:

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|---------|-----------------|----------------|------------------|---------|
| 1 | 906 | 6.33 | 8 | Pass |
| 5 | 914 | 6.14 | 8 | Pass |
| 10 | 924 | 6.01 | 8 | Pass |

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8.4. PSD Measurement Plots



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9. Maximum Conducted Output Power.

| | | | |
|-----------------|--|--------------------|------------|
| Test Date: | 17-Apr-25 | Temperature: | 23°C |
| Tested By: | Ilya Manski | Pressure: | 1030.2 hPa |
| Test Standard: | FCC §15.247(B)(3) RSS-247 §5.4(D) | Relative Humidity: | 45% |
| Test Procedure: | ANSI C63.10-2020+Cor.1-2023 RSS-247 Issue 3 | Photograph: | Annex II |

9.1. Test Requirement:

| | |
|------------------------|--|
| Normal test conditions | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
|------------------------|--|

9.2. Test Result:

| Channel | Frequency (MHz) | AVG Power (dBm) | Limit (dBm) | Max EIRP (dBm) | Limit (dBm) | Verdict |
|---------|-----------------|-----------------|-------------|----------------|-------------|---------|
| 1 | 906 | 14.98 | 30 | 16.78 | 36 | Pass |
| 5 | 914 | 15.03 | 30 | 16.83 | 36 | Pass |
| 10 | 924 | 14.91 | 30 | 16.71 | 36 | Pass |

| | | | |
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10. Conducted Out of Band Emission & Frequency Band Edge

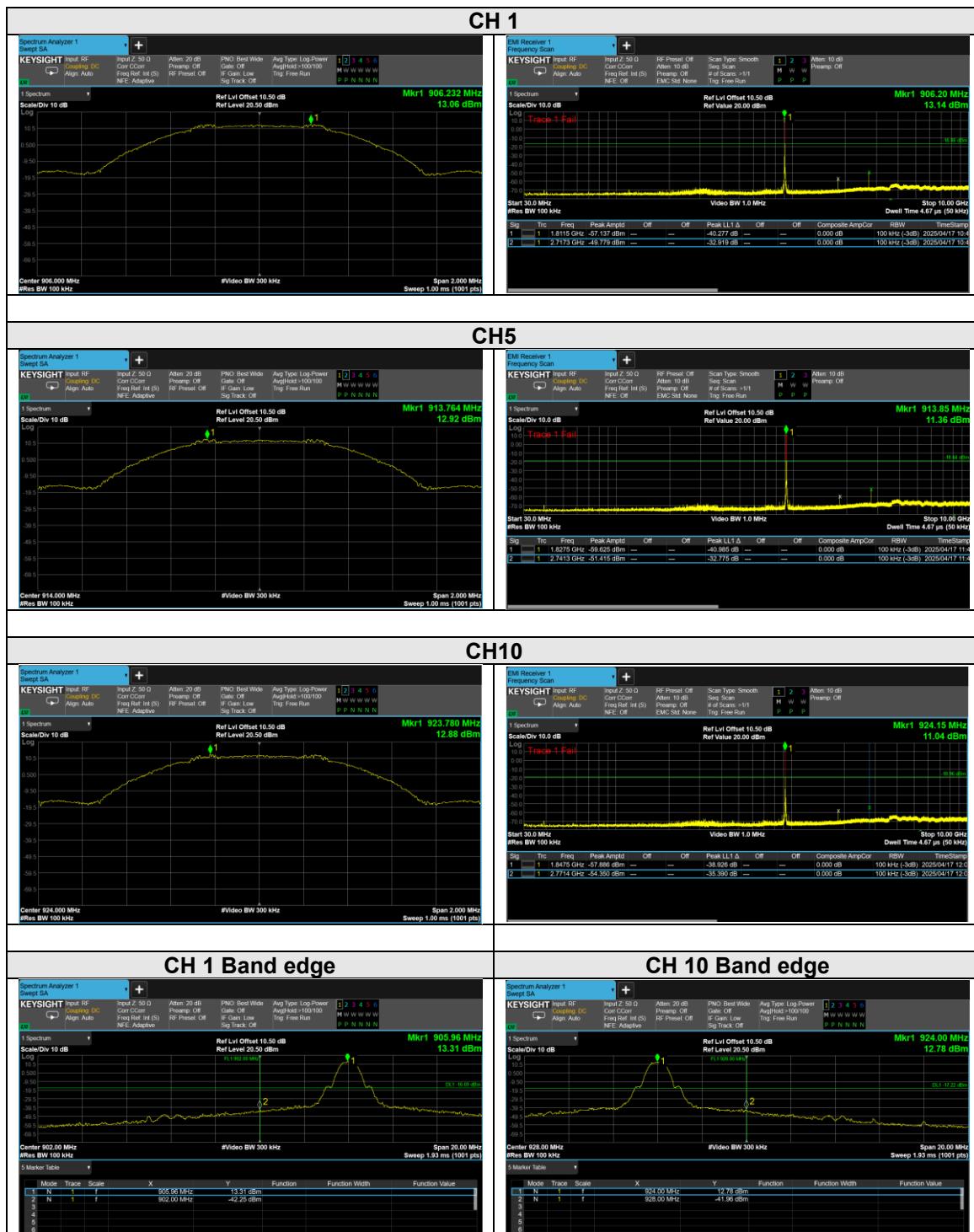
| | | | |
|-----------------|--|--------------------|------------|
| Test Date: | 20-Apr-25 | Temperature: | 23°C |
| Tested By: | Ilya Manski | Pressure: | 1030.2 hPa |
| Test Standard: | FCC §15.247(D) RSS-247 §5.5 | Relative Humidity: | 45% |
| Test Procedure: | ANSI C63.10-2020+Cor.1-2023 RSS-247 Issue 3 | Photograph: | Annex II |

10.1. Test Requirement:

| | |
|------------------------|--|
| Normal test conditions | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). |
|------------------------|--|

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10.2. Test Result:



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11. Conducted Emission, Power Line

| | | | |
|-----------------|-----------------------------|--------------------|------------|
| Test Date: | 14-Apr-25 | Temperature: | 23°C |
| Tested By: | Ilya Manski | Pressure: | 1030.2 hPa |
| Test Standard: | FCC §15.207(A) | Relative Humidity: | 45% |
| Test Procedure: | ANSI C63.10-2020+Cor.1-2023 | Photograph: | Annex II |

11.1. Test Requirement:

| | |
|------------------------|--|
| Normal test conditions | An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits specified in §15.209 |
|------------------------|--|

11.2. Limits of Conducted Emission Measurement

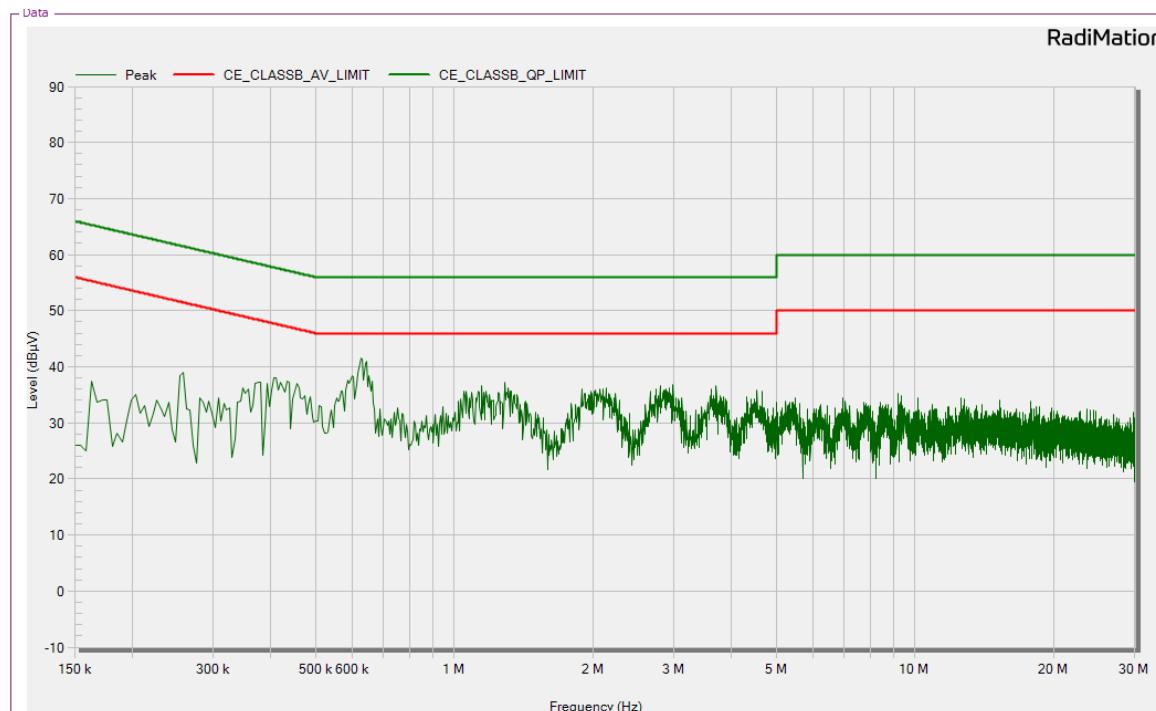
| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

| | | | |
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11.3. Test result:

| | |
|------------------|----------------|
| Power Lead: | 1Ph, N☒, L1☐ |
| Frequency Range: | 150kHz - 30MHz |
| Verdict: | Pass |

11.3.1. Plot- Neutral



| Frequency (MHz) | Corrected Amplitude Level | | | Limit | | Margin | | Result |
|-----------------|---------------------------|------------|-----------|-----------|------------|---------|----------|--------|
| | Peak (dBμV) | AVG (dBμV) | QP (dBμV) | QP (dBμV) | AVG (dBμV) | QP (dB) | AVG (dB) | |
| 0.6 | 40.1 | 37.8 | 38.5 | 56 | 46 | -175 | -8.2 | Pass |
| 0.627 | 42 | 33.1 | 40.1 | 56 | 46 | -15.9 | -12.9 | Pass |
| 0.654 | 41.2 | 31.6 | 38.9 | 56 | 46 | -17.1 | -14.4 | Pass |
| 1.288 | 37.4 | 27.7 | 34.4 | 56 | 46 | -21.6 | -18.3 | Pass |
| 2.985 | 36.4 | 26.8 | 33.2 | 56 | 46 | -22.8 | -19.2 | Pass |
| 3.7 | 35.9 | 26.9 | 33 | 56 | 46 | -23.0 | -19.1 | Pass |

Note:

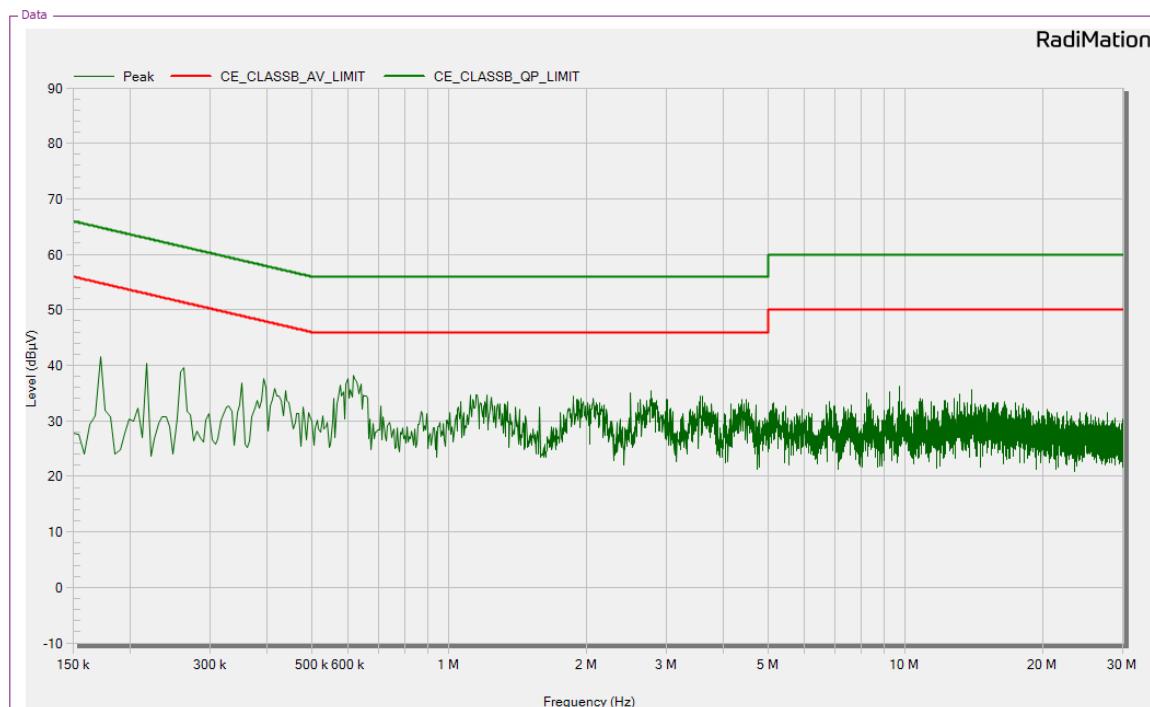
Corrected Amplitude Level [dBμV] = LISN factor_[dB] + Cable loss_[dB] + Limiter Loss_[dB] + Reading level_[dBμV].

| | | | |
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| | |
|------------------|----------------|
| Power Lead: | 1Ph, N□, L1☒ |
| Frequency Range: | 150kHz - 30MHz |
| Verdict: | Pass |

11.3.2.

Plot - Line



| Frequency (MHz) | Corrected Amplitude Level | | | Limit | | Margin | | Result |
|-----------------|---------------------------|------------|-----------|-----------|------------|---------|----------|--------|
| | Peak (dBμV) | AVG (dBμV) | QP (dBμV) | QP (dBμV) | AVG (dBμV) | QP (dB) | AVG (dB) | |
| 0.393 | 39.2 | 34.8 | 37.7 | 58 | 48 | -20.3 | -13.2 | Pass |
| 0.577 | 39.4 | 26.4 | 34.5 | 56 | 46 | -21.5 | -19.6 | Pass |
| 0.618 | 40.5 | 28.1 | 36.6 | 56 | 46 | -19.4 | -17.9 | Pass |
| 0.64 | 39.3 | 28.7 | 36.5 | 56 | 46 | -19.5 | -17.3 | Pass |
| 2.503 | 32.6 | 21.5 | 28.6 | 56 | 46 | -27.4 | -24.5 | Pass |
| 2.773 | 35.7 | 25.8 | 32.3 | 56 | 46 | -23.7 | -20.2 | Pass |

Note:

Corrected Amplitude Level [dB μ V] = LISN factor_[dB] + Cable loss_[dB] + Limiter Loss_[dB] + Reading level_[dB μ V].

| | | | |
|-----------------|-----------------|---------|---------|
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12. Antenna Requirement

| | | | |
|-----------------|--------------------------|--------------------|------------|
| Test Date: | 15-Apr-25 | Temperature: | 23°C |
| Tested By: | Ilya Manski | Pressure: | 1030.2 hPa |
| Test Standard: | § 15.203 RSS-GEN §6.8 | Relative Humidity: | 45% |
| Test Procedure: | - | Photograph: | Annex II |

12.1. Test Requirement:

| | |
|------------------------|--|
| Normal test conditions | <p>According to § 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 of 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:</p> <ol style="list-style-type: none"> 1. Antenna must be permanently attached to the unit. 2. Antenna must use a unique type of connector to attach to the EUT. 3. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit. <p>And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> |
|------------------------|--|

12.2. Antenna Connector Construction

The EUT has external antenna with unique antenna connector, the detail information as follows, fulfill the requirement of this section.

| Model | Type | Brand | PN | Freq. (MHz) | Connector |
|--------------|--------------------------|-----------|---------|----------------------|-----------|
| AS0001-ANT-2 | Dual Band Dipole Antenna | Solaredge | D2224AC | 860-930 2400-2500 | RP SMA |

12.3. Verdict: Compliance

| | | | | |
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13. Annex I- Test Equipment List:

| Description | Manufacturer | Model Name | Serial No. | Cal date | Due date |
|--|------------------------|-------------------------------|--------------|------------|------------|
| Humidity-Temperature-Air Pressure Meter | Greisinger | GFTB 200 | 34905708 | 10/06/2024 | 10/06/2025 |
| Power Meter 50MHz - 18GHz | Keysight Technologies | U2021XA | MY61160019 | 18/06/2024 | 18/06/2025 |
| EMI Receiver (w.int. preamp) 3Hz - 44GHz | Keysight Technologies | N9038B | MY60180026 | 08/07/2024 | 08/7/2026 |
| Antenna Loop 10kHz - 30MHz | Schwarzbeck | FMZB1519 | 217 | 31/06/2023 | 31/06/2025 |
| Bilog Antenna 30MHz – 1GHz | Schwarzbeck | VULB9164 | 16 | 18/04/2024 | 17/04/2027 |
| Low-Noise Amplifier 1GHz - 40GHz | QUINSTAR TECHNOLOGY | QLW-01403550-HA01 | 1639100001 | 11/10/2024 | 10/10/2026 |
| Horn Antenna 1GHz - 18GHz | Schwarzbeck | BBHA9120D | 2485 | 18/07/2024 | 18/07/2027 |
| DC-18GHz,20W 10dB Attenuator | Mini-Circuits | BW-N10W20+ | | NCR | NCR |
| Highpass Filter (Chebyshev) | Wainwright instr. GmbH | WHKX10-1000.4-1220-18000-50ST | | NCR | NCR |
| RF Transient Limiter | Schwarzbeck | VTSD 9561 F-N | 913 | 14/08/2024 | 14/08/2027 |
| LISN 1PH 50A | Schwarzbeck | NSLK8122 | 156 | 13/08/2024 | 13/08/2027 |
| RF Cable | Huber Suhner | SUCOFLEX_102_E | 510969 /2EA | 06/01/2025 | 06/01/2028 |
| RF Cable | Huber Suhner | SUCOFLEX_102_E | 510971 /2EA | 06/01/2025 | 06/01/2028 |
| RF Cable | Huber Suhner | SUCOFLEX_102_E | 510967 /2EA | 06/01/2025 | 06/01/2028 |
| RF Cable | Huber Suhner | SUCOFLEX_102_E | 510970 /2EA | 06/01/2025 | 06/01/2028 |
| RF Cable | Huber Suhner | SUCOFLEX_126_EA | 514568/126EA | 06/01/2025 | 06/01/2028 |
| RF Cable | Huber Suhner | SUCOFLEX_126_EA | 514569/126EA | 06/01/2025 | 06/01/2028 |

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14. Lab Accreditation



Accredited Laboratory

A2LA has accredited

SOLAREDGE TECHNOLOGIES LTD.

Herzeliya, Israel

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates
technical competence for a defined scope and the operation of a laboratory quality management system
(refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 30th day of May 2024

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6185.01
Valid to February 28, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.



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End of the report