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Compliance test report ID **177972-1TRFWL**

Date of issue
October 19, 2011

## FCC 47 CFR Part 15 Subpart C, §15.247

Operation in the 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz – Partial testing

## RSS-210, Issue 8 Annex 8

Frequency Hopping and Digital Modulation Systems Operating in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz Bands – Partial testing

| | |
|---|---|
| Applicant | **Amyuni Technologies** |
| Product | **DevTouch Pro / Double ii** |
| Model | **DBLDEV1** |
| FCC ID | **ZTVDBLDEV1** |
| IC Reg No. | **9796A-DBLDEV1** |

Nemko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada. The tests included in this report are within the scope of this accreditation

SCC Accredited LAB
LAB Accrédité CCN

Test location

Nemko Canada Inc.
303 River Road
Ottawa, ON, K1V 1H2
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Test site FCC ID: 176392
Test site IC ID: 2040A-4 (3 m Semi anechoic chamber)

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**Tested by** Andrey Adelberg, Senior Wireless/EMC Specialist

**Reviewed by** 

David Duchesne, Senior EMC/Wireless Specialist

October 19, 2011

**Date**

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 Canada's ISO/IEC 17025 accreditation.

Copyright notification

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# Section 1 Report summary

## 1.1 Applicant

Amyuni Technologies
5165 Sherbrooke West, Suite 200
Montreal, Quebec, H4A 1T6, Canada

## 1.2 Manufacturer

Amyuni Technologies
5165 Sherbrooke West, Suite 200
Montreal, Quebec, H4A 1T6, Canada

## 1.3 Test specifications

FCC 47 CFR Part 15, Subpart C, Chapter 15.247: Operation in the 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz – Partial testing

RSS-210, Issue 8 Annex 8: Frequency Hopping and Digital Modulation Systems Operating in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz Bands – Partial testing

## 1.4 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was completed 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.

## 1.5 Test report revision history

Original report issued

# Section 2 Summary of test results

## 2.1 FCC Part 15 Subpart C: test results

| Part | Test description | Verdict |
|---|---|---|
| §15.207(a) | Conducted limits | Pass |
| §15.247(a)(1)(i) | Frequency hopping systems operating in the 902–928 MHz band | Not applicable |
| §15.247(a)(1)(ii) | Frequency hopping systems operating in the 5725–5850 MHz band | Not applicable |
| §15.247(a)(1)(iii) | Frequency hopping systems operating in the 2400–2483.5 MHz band | Not applicable |
| §15.247(a)(2) | Minimum 6 dB bandwidth for systems using digital modulation techniques | Pass[1] |
| §15.247(b)(1) | Maximum peak output power of frequency hopping systems operating in the 2400–2483.5 MHz band and 5725–5850 MHz band | Not applicable |
| §15.247(b)(2) | Maximum peak output power of Frequency hopping systems operating in the 902–928 MHz band | Not applicable |
| §15.247(b)(3) | Maximum peak output power of systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands | Pass |
| §15.247(b)(4) | Maximum peak output power | Pass |
| §15.247(c)(1) | Fixed point-to-point operation with directional antenna gains greater than 6 dBi | Not applicable |
| §15.247(c)(2) | Transmitters operating in the 2400–2483.5 MHz band that emit multiple directional beams | Not applicable |
| §15.247(d) | Spurious emissions | Pass |
| §15.247(e) | Power spectral density for digitally modulated devices | Pass[1] |
| §15.247(f) | Time of occupancy for hybrid systems | Not applicable |

Note: [1] - For the test results please refer to test report number R0703307-247 802.11.

## 2.2 IC RSS-210, Issue 8: test results

| Part | Test description | Verdict |
|---|---|---|
| A8.1 | Frequency hopping systems | |
| A8.1 (a) | Bandwidth of a frequency hopping channel | Not applicable |
| A8.1 (b) | Minimum channel spacing for frequency hopping systems | Not applicable |
| A8.1 (c) | Frequency hopping systems operating in the 902–928 MHz band | Not applicable |
| A8.1 (d) | Frequency hopping systems operating in the 2400–2483.5 MHz band | Not applicable |
| A8.1 (e) | Frequency hopping systems operating in the 5725–5850 MHz band | Not applicable |
| A8.2 | Digital modulation systems | |
| A8.2 (a) | Minimum 6 dB bandwidth | Pass[1] |
| A8.2 (b) | Maximum power spectral density | Pass[1] |
| A8.3 | Hybrid systems | |
| A8.3 (1) | Digital modulation turned off | Not applicable |
| A8.3 (2) | Frequency hopping turned off | Not applicable |
| A8.4 | Transmitter output power and e.i.r.p. requirements | |
| A8.4 (1) | Frequency hopping systems operating in the 902–928 MHz band | Not applicable |
| A8.4 (2) | Frequency hopping systems operating in the 2400–2483.5 MHz band | Not applicable |
| A8.4 (3) | Frequency hopping systems operating in the 5725–5850 MHz | Not applicable |
| A8.4 (4) | Systems employing digital modulation techniques | Pass |
| A8.4 (5) | Point-to-point systems in 2400–2483.5 MHz and 5725–5850 MHz band | Not applicable |
| A8.4 (6) | Transmitters which operate in the 2400–2483.5 MHz band with multiple directional beams | Not applicable |
| A8.5 | Out-of-band emissions | Pass |
| RSS-Gen 7.2.4 | AC power line conducted emissions limits | Pass |

Note: [1] - For the test results please refer to test report number R0703307-247 802.11.

# Section 3 Equipment under test (EUT) details

## 3.1 Sample information

| | |
|---|---|
| **Receipt date** | October 3, 2011 |
| **Nemko sample ID number** | 1 |

## 3.2 EUT information

| | |
|---|---|
| **Product name** | DevTouch Pro / Double ii |
| **Model** | DBLDEV1 |
| **Serial number** | DBLDEV2010100000B2 |

## 3.3 Technical information

| | |
|---|---|
| **Operating band** | 2400–2483.5 MHz |
| **Operating frequency** | 2412–2462 MHz |
| **Modulation type** | Wi-Fi: 802.11b and 802.11g |
| **Occupied bandwidth** | 13.56 MHz (802.11b) and 16.50 MHz (802.11g) |
| **Emission designator** | W7D |
| **Power requirements** | Internal rechargeable battery (All tests were performed with fully charged battery.) |
| **Antenna information** | Internal Broadband ceramic multilayer chip antenna 2 dBi (max) RFANT5220110A0T series |

## 3.4 Product description and theory of operation

The EUT is a handheld device with Wi-Fi/Bluetooth module which operated within 2.4 GHz ISM band. There is a hardware limiter preventing simultaneous Wi-Fi and Bluetooth transmission.

## 3.5 EUT exercise details

EUT was turned on, continuous transmission was set on desired channel at the maximum power settings.

# 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

The manufacturer didn't change power settings since the original certification of the implemented RF module therefore only partial tests were performed on the EUT that involved new antenna measurements.

## 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 ±5 %, for which the equipment was designed.

# Section 6 Measurement uncertainty

## 6.1 Uncertainty of measurement

Nemko Canada Inc. has calculated measurement uncertainty and is documented in EMC/MUC/001 “Uncertainty in EMC measurements.” Measurement uncertainty was calculated using the methods described in CISPR 16-4 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC measurements; as well as described in UKAS LAB34: The expression of Uncertainty in EMC Testing. Measurement uncertainty calculations assume a coverage factor of K=2 with 95% certainty.

# Section 7 Test equipment

## 7.1 Test equipment list

| Equipment | Manufacturer | Model no. | Asset no. | Cal cycle | Next cal. |
|---|---|---|---|---|---|
| 3 m EMI test chamber | TDK | SAC-3 | FA002047 | 1 year | Mar. 09/12 |
| Flush mount turntable | Sunol | FM2022 | FA002082 | — | NCR |
| Controller | Sunol | SC104V | FA002060 | — | NCR |
| Antenna mast | Sunol | TLT2 | FA002061 | — | NCR |
| Receiver/spectrum analyzer | Rohde & Schwarz | ESU 26 | FA002043 | 1 year | April 27/12 |
| Bilog antenna | Sunol | JB3 | FA002108 | 1 year | Jan. 31/12 |
| Horn antenna #2 | EMCO | 3115 | FA000825 | 1 year | Feb. 04/12 |
| 1–18 GHz pre-amplifier | JCA | JCA118-503 | FA002091 | 1 year | Aug. 15/12 |
| Note: NCR - no calibration required | | | | | |

# Section 8 Testing data

## 8.1 FCC 15.207(a) and RSS-Gen Clause 7.2.4 Conducted emissions on AC lines

### 8.1.1 Definitions and limits

Except as shown in paragraphs (b) and (c) of this section, for 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 in the following table, as measured using a 50 µH/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

**Table 8.1-1:** Conducted emissions limit

| Frequency of emission (MHz) | Conducted limit (dBµV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15–0.5 | 66 to 56* | 56 to 46* |
| 0.5–5 | 56 | 46 |
| 5–30 | 60 | 50 |
| * - Decreases with the logarithm of the frequency. | | |

### 8.1.2 Test summary

| | | | | | |
|---|---|---|---|---|---|
| **Test date** | October 18, 2011 | **Test engineer** | Andrey Adelberg | **Verdict** | Pass |
| **Temperature** | 24 °C | **Air pressure** | 995 mbar | **Relative humidity** | 33 % |

### 8.1.3 Observations/special notes

The EUT was set up as tabletop configuration.

The spectral scan has been corrected with transducer factors (i.e. cable loss, LISN factors, and attenuators) for determination of compliance.

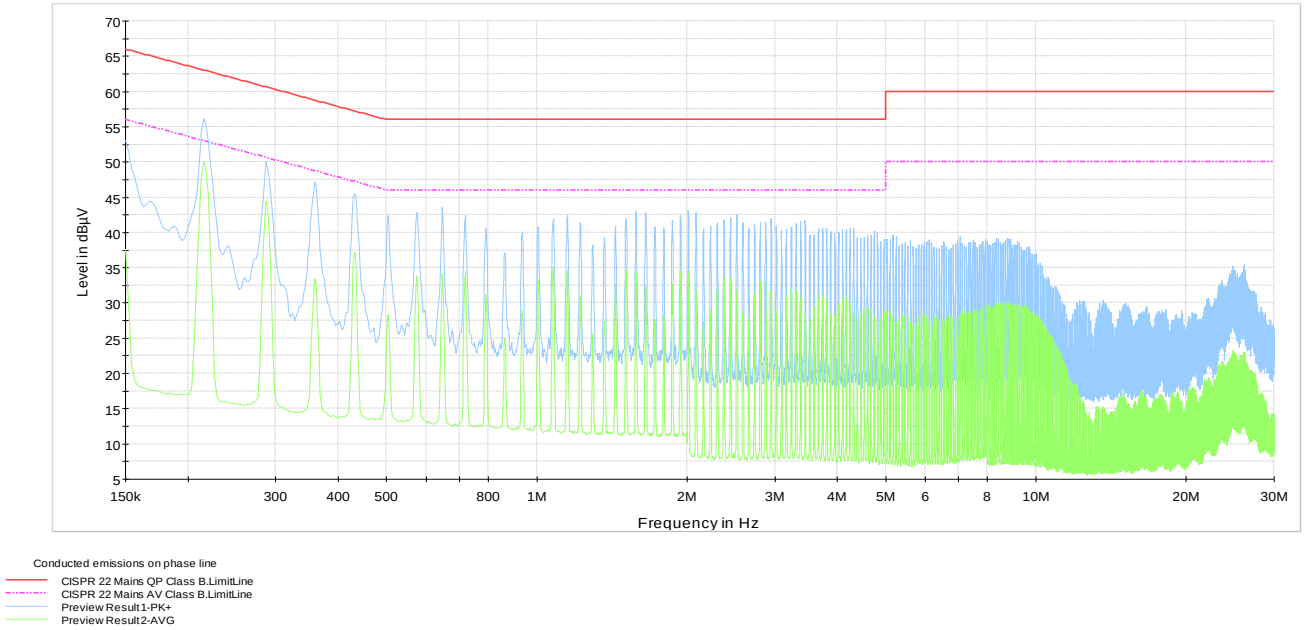
**Receiver/spectrum analyzer settings**

Preview measurements – Receiver:
Peak and Average detector (Max hold), RBW = 9 kHz, VBW = 30 kHz, Measurement time = 100 ms
Final measurements – Receiver:
Q-Peak and Average detector, RBW = 9 kHz, VBW = 30 kHz, Measurement time = 100 ms

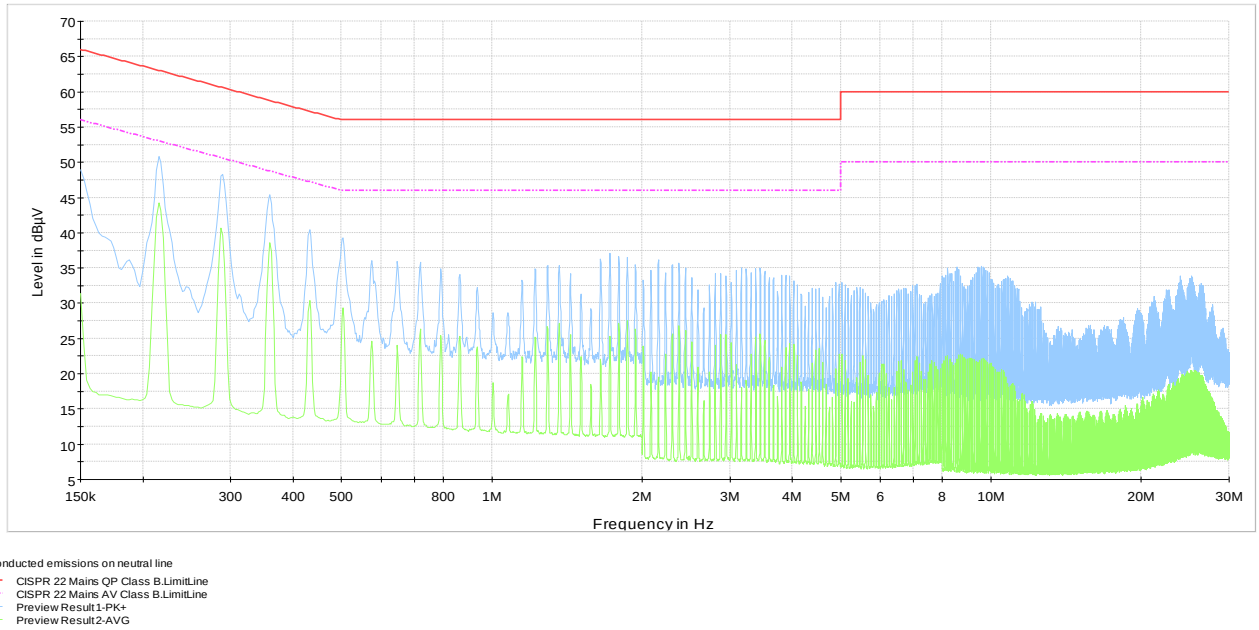
**Measurement details**

A preview measurement was generated with the receiver in continuous scan mode. Emissions detected within 6 dB or above limit were re-measured with the appropriate detector against the correlating limit and recorded as the final measurement. The spectral scan has been corrected with transducer factors (i.e. cable loss, LISN factors, and attenuators) for determination of compliance.

## 8.1.4 Test data




**Plot 8.1-1: Conducted emissions on phase line**




**Plot 8.1-2: Conducted emissions on neutral line**

## 8.2 FCC 15.247(b) (3, 4) and RSS-210 A8.4 (4) Output power and EIRP

### 8.2.1 Definitions and limits

FCC § 15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.

(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:

(3) 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.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(i) Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

(ii) Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

Fixed, point-to-point operation, as used in paragraphs (b)(3)(i) and (b)(3)(ii) of this section, excludes the use of point-to-multipoint systems, omnidirectional applications, and multiple co-located intentional radiators transmitting the same information. The operator of the spread spectrum intentional radiator or, if the equipment is professionally installed, the installer is responsible for ensuring that the system is used exclusively for fixed, point-to-point operations. The instruction manual furnished with the intentional radiator shall contain language in the installation instructions informing the operator and the installer of this responsibility.

RSS-210 Clause A8.4 (4) Transmitter Output Power and e.i.r.p. Requirements for systems employing digital modulation techniques operating in the bands 902–928 MHz, 2400–2483.5 MHz and 5725–5850 MHz bands:

For systems employing digital modulation techniques operating in the bands 902–928 MHz, 2400–2483.5 MHz and 5725–5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4(5), the e.i.r.p. shall not exceed 4 W.
As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power (see RSS-Gen).

### 8.2.2 Test summary

| | | | | | |
|---|---|---|---|---|---|
| **Test date** | October 5, 2011 | **Test engineer** | Andrey Adelberg | **Verdict** | Pass |
| **Temperature** | 21 °C | **Air pressure** | 1001 mbar | **Relative humidity** | 37 % |

### 8.2.3 Observations/special notes

The test was performed according to FCC DTS test guidance (March 23, 2005) using Method #1 of Power Option 2.

### 8.2.4 Test data

**Table 8.2-1:** Conducted output power results for 802.11b

| Frequency (MHz) | Conducted output power (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|
| 2412 | 14.91 | 30.0 | 15.09 |
| 2437 | 15.11 | 30.0 | 14.89 |
| 2462 | 15.24 | 30.0 | 14.76 |

**Table 8.2-2:** Conducted output power results for 802.11g

| Frequency (MHz) | Conducted output power (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|
| 2412 | 12.62 | 30.0 | 17.38 |
| 2437 | 12.59 | 30.0 | 17.41 |
| 2462 | 12.85 | 30.0 | 17.15 |

**Table 8.2-3:** EIRP calculation results for 802.11b

| Frequency (MHz) | Conducted output power (dBm) | Antenna gain, (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|
| 2412 | 14.91 | 2.0 | 16.91 | 36.0 | 19.09 |
| 2437 | 15.11 | 2.0 | 17.11 | 36.0 | 18.89 |
| 2462 | 15.24 | 2.0 | 17.24 | 36.0 | 18.76 |
| EIRP = Conducted output power [dBm] + antenna gain [dBi]<br>Antenna gain = 2 dBi | | | | | |

**Table 8.2-4:** EIRP calculation results for 802.11g

| Frequency (MHz) | Conducted output power (dBm) | Antenna gain, (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|
| 2412 | 12.62 | 2.0 | 14.62 | 36.0 | 21.38 |
| 2437 | 12.59 | 2.0 | 14.59 | 36.0 | 21.41 |
| 2462 | 12.85 | 2.0 | 14.85 | 36.0 | 21.15 |
| EIRP = Conducted output power [dBm] + antenna gain [dBi]<br>Antenna gain = 2 dBi | | | | | |

## 8.3 FCC 15.247(d) Spurious emissions and RSS-210 A8.5 Out of band emissions

### 8.3.1 Definitions and limits

FCC 15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.

(d) 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)).

RSS-210 A8.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of 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 Section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required.

### 8.3.2 Test summary

| | | | | | |
|---|---|---|---|---|---|
| **Test date** | October 6, 2011 | **Test engineer** | Andrey Adelberg | **Verdict** | Pass |
| **Temperature** | 25 °C | **Air pressure** | 1002 mbar | **Relative humidity** | 39 % |

### 8.3.3 Observations/special notes

**Table 8.3-1:** Radiated emission limits (FCC §15.209 and RSS-Gen)

| Frequency (MHz) | Field strength (μV/m) | Field strength (dBμV/m) | Measurement distance (m) |
|---|---|---|---|
| 0.009–0.490 | 2400/F | $67.6-20\times\log_{10}(F)$ | 300 |
| 0.490–1.705 | 24000/F | $87.6-20\times\log_{10}(F)$ | 30 |
| 1.705–30.0 | 30 | 29.5 | 30 |
| 30–88 | 100 | 40.0 | 3 |
| 88–216 | 150 | 43.5 | 3 |
| 216–960 | 200 | 46.0 | 3 |
| above 960 | 500 | 54.0 | 3 |

- The spectrum was searched from 30 MHz to the 10$^{th}$ harmonic.
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
- within 30–1000 MHz range: using a peak detector with 100 kHz/300 kHz RBW/VBW,
- above 1 GHz: using peak detector with 1 MHz/3 MHz RBW/VBW for peak results
- and using peak detector with 1 MHz/10 Hz RBW/VBW for average results.
- Transmit output power was measured while supply voltage was varied from 102 VAC to 138 VAC (85 % to 115 % of the nominal rated supply voltage). No change in transmit output power was observed.

### 8.3.4 Test data

**Table 8.3-2:** FCC Restricted bands of operation

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090–0.110 | 16.42–16.423 | 399.9–410 | 4.5–5.15 |
| 0.495–0.505 | 16.69475–16.69525 | 608–614 | 5.35–5.46 |
| 2.1735–2.1905 | 16.80425–16.80475 | 960–1240 | 7.25–7.75 |
| 4.125–4.128 | 25.5–25.67 | 1300–1427 | 8.025–8.5 |
| 4.17725–4.17775 | 37.5–38.25 | 1435–1626.5 | 9.0–9.2 |
| 4.20725–4.20775 | 73–74.6 | 1645.5–1646.5 | 9.3–9.5 |
| 6.215–6.218 | 74.8–75.2 | 1660–1710 | 10.6–12.7 |
| 6.26775–6.26825 | 108–121.94 | 1718.8–1722.2 | 13.25–13.4 |
| 6.31175–6.31225 | 123–138 | 2200–2300 | 14.47–14.5 |
| 8.291–8.294 | 149.9–150.05 | 2310–2390 | 15.35–16.2 |
| 8.362–8.366 | 156.52475–156.52525 | 2483.5–2500 | 17.7–21.4 |
| 8.37625–8.38675 | 156.7–156.9 | 2690–2900 | 22.01–23.12 |
| 8.41425–8.41475 | 162.0125–167.17 | 3260–3267 | 23.6–24.0 |
| 12.29–12.293 | 167.72–173.2 | 3332–3339 | 31.2–31.8 |
| 12.51975–12.52025 | 240–285 | 3345.8–3358 | 36.43–36.5 |
| 12.57675–12.57725 | 322–335.4 | 3600–4400 | Above 38.6 |
| 13.36–13.41 | | | |

**Table 8.3-3:** IC Restricted frequency bands

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090–0.110 | 12.51975–12.52025 | 399.9–410 | 5.35–5.46 |
| 2.1735–2.1905 | 12.57675–12.57725 | 608–614 | 7.25–7.75 |
| 3.020–3.026 | 13.36–13.41 | 960–1427 | 8.025–8.5 |
| 4.125–4.128 | 16.42–16.423 | 1435–1626.5 | 9.0–9.2 |
| 4.17725–4.17775 | 16.69475–16.69525 | 1645.5–1646.5 | 9.3–9.5 |
| 4.20725–4.20775 | 16.80425–16.80475 | 1660–1710 | 10.6–12.7 |
| 5.677-5.683 | 25.5–25.67 | 1718.8–1722.2 | 13.25–13.4 |
| 6.215–6.218 | 37.5–38.25 | 2200–2300 | 14.47–14.5 |
| 6.26775–6.26825 | 73–74.6 | 2310–2390 | 15.35–16.2 |
| 6.31175–6.31225 | 74.8–75.2 | 2655–2900 | 17.7–21.4 |
| 8.291–8.294 | 108–138 | 3260–3267 | 22.01–23.12 |
| 8.362–8.366 | 156.52475–156.52525 | 3332–3339 | 23.6–24.0 |
| 8.37625–8.38675 | 156.7–156.9 | 3345.8–3358 | 31.2–31.8 |
| 8.41425–8.41475 | 240–285 | 3500–4400 | 36.43–36.5 |
| 12.29–12.293 | 322–335.4 | 4500–5150 | Above 38.6 |

Note: Certain frequency bands listed in Table 8.3-3 and above 38.6 GHz are designated for low-power licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in this Standard

**Table 8.3-4:** Radiated spurious emissions results

| Channel | Frequency (MHz) | Peak field strength (dBµV/m) | Peak Limit (dBµV/m) | Margin (dB) | Average fields strength (dBµV/m) | Average limit (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| Low | 4824.00 | 50.12 | 74.00 | 23.88 | 46.76 | 54.00 | 7.24 |
| Mid | 4874.00 | 49.78 | 74.00 | 24.22 | 45.53 | 54.00 | 8.47 |
| High | 4924.00 | 50.32 | 74.00 | 23.68 | 47.09 | 54.00 | 6.91 |

# Section 9 Block diagrams of test set-ups

## 9.1 Radiated emissions set-up