

## FCC Part 15C Compliance Test Report

|                                                         |                                                                                                                                                                                                                                                                                                          |                                   |                                                                                                                                                   |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Report no.:</b>                                 | FCC15CWLAN_RM-819_10.docx                                                                                                                                                                                                                                                                                | <b>Date of Report:</b>            | 14-Dec-2011                                                                                                                                       |
| <b>Number of pages:</b>                                 | 32                                                                                                                                                                                                                                                                                                       | <b>Customer's Contact person:</b> | Koskela Kari.O                                                                                                                                    |
| <b>Testing laboratory:</b>                              | TCC Nokia Copenhagen Laboratory<br>Frederikskaj<br>1790 COPENHAGEN V<br>DENMARK<br>Tel. +45 33 292929<br>Fax. +45 33 292934                                                                                                                                                                              | <b>Customer:</b>                  | Nokia Corporation<br>P.O.Box(86)<br>Joensuunkatu 7H / Kiila 1B<br>FIN-24101 SALO, FINLAND<br>Tel. +358 (0) 7180 08000<br>Fax. +358 (0) 7180 45220 |
| <b>FCC listing no.:</b>                                 |                                                                                                                                                                                                                                                                                                          |                                   |                                                                                                                                                   |
| <b>IC recognition no.:</b>                              |                                                                                                                                                                                                                                                                                                          |                                   |                                                                                                                                                   |
| <b>Tested devices/ accessories:</b>                     | <b>Phone RM-819</b>                                                                                                                                                                                                                                                                                      |                                   |                                                                                                                                                   |
| <b>FCC ID:</b>                                          | LJPA                                                                                                                                                                                                                                                                                                     | <b>IC:</b>                        | 661E-A                                                                                                                                            |
| <b>Supplement reports:</b>                              | -                                                                                                                                                                                                                                                                                                        |                                   |                                                                                                                                                   |
| <b>Testing has been carried out in accordance with:</b> | CFR 47, FCC rules Part 15 Subpart C, ANSI C63.4 (2003), Public Notice DA 00-705, DTS procedures KDB 558074, IC standards, RSS-210 (Issue 8, December 2010). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit". |                                   |                                                                                                                                                   |
| <b>Documentation:</b>                                   | The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.                                                     |                                   |                                                                                                                                                   |
| <b>Test Results:</b>                                    | <b>The EUT complies with the requirements in respect of all parameters subject to the test.</b><br>The test results relate only to devices specified in this document                                                                                                                                    |                                   |                                                                                                                                                   |
| <b>Date and signature for the contents:</b>             |                                                                                                                                                                                                                                                                                                          |                                   |                                                                                                                                                   |

Kalle Hannila, Engineer, EMC

## 1. Summary for FCC Part 15C Compliance Test Report

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Date of receipt               | 26-Aug-2011                                        |
| Testing completed             | 31-Aug-2011                                        |
| The customer's contact person | Koskela Kari                                       |
| Test Plan referred to         | T:\Projects\RM-801\TestPlan\RS_testplan_RM-801.xls |
| Notes                         | -                                                  |
| Document name                 | T:\Projects\RM-801\EMC\FCC15CWLAN_RM-801_18.docx   |

### 1.1. EUT and Accessory Information

The EUT is a 7-band mobile phone:

GSM850/900/1800/1900/GPRS/EGPRS

WCDMA I/II(1900)/V(850)/HSDPA/HSUPA

WLAN/Bluetooth

The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

| Product   | Type   | SN                          | HW   | MV | SW | DUT   |
|-----------|--------|-----------------------------|------|----|----|-------|
| Phone     | RM-801 | 00440213553881              | 1100 | -  | -  | 23507 |
| Battery   | BV-5JW | -                           | -    | -  | -  | 23507 |
| Phone     | RM-801 | 0044021355388               | 1100 | -  | -  | 23497 |
| Battery   | BV-5JW | -                           | -    | -  | -  | 23497 |
| USB Cable | CA-185 | -                           | -    | -  | -  | 23506 |
| Charger   | AC-16E | 4090191233240501561;0675491 | -    | -  | -  | 23505 |
| Headset   | WH-902 | -                           | -    | -  | -  | 23504 |

### 1.2. Summary of Test Results

#### WLAN:

| Section in CFR 47 | Section in RSS-GEN or RSS-210 | Name of the test                     | Result |
|-------------------|-------------------------------|--------------------------------------|--------|
| 15.247(b)(1)      | A8(0.4(4))                    | Conducted peak output power          | PASSED |
| 15.247(d)         | A8(0.5)                       | Band edge compliance of RF emissions | NP     |
| 15.247(d)         | A8(0.5)                       | Spurious RF conducted emissions      | PASSED |
| 15.247(d), 15.209 | A8(0.5)                       | Spurious radiated emissions          | NP     |
| 15.207            | 7.2.2                         | AC powerline conducted emissions     | PASSED |
| 15.247(a)(2)      | A8(0.1(1))                    | 6dB(bandwidth)                       | PASSED |
| 15.247(e)         | A8(0.1(2))                    | Power spectral density               | PASSED |

PASSED

FAILED

NP

The EUT complies with the essential requirements in the standard.

The EUT does not comply with the essential requirements in the standard.

The test was not performed by the TCC Nokia Laboratory.

*The test results of LJPRM-801 are re-used for certification of the LJPA. The table above indicates the results, which will be re-used*

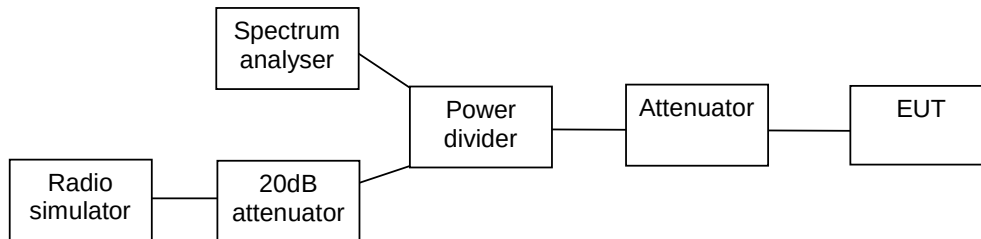
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## 2. Conducted peak output power (15.247(b)(1), RSS-210 A8.4 (4))

|                                                        |                                     |
|--------------------------------------------------------|-------------------------------------|
| <b>EUT with DUT number</b>                             | RM-801, DUT 23497                   |
| <b>Accessories with DUT numbers</b>                    | BV-5JW DUT 23497, WH-902, DUT 23504 |
| <b>Operation Voltage [V] / [Hz]</b>                    | 115 / 60                            |
| <b>Results</b>                                         | PASSED                              |
| <b>Remarks</b>                                         | None                                |
| <b>Temp [°C] / Humidity [%RH] / Air Pressure [kPa]</b> | 24 / 55 / 101.9                     |
| <b>Date of measurements</b>                            | 31-Aug-2011                         |
| <b>Measured by</b>                                     | Ruben Hansen                        |

### 2.1. Test Setup



### 2.2. Test method and limit

The measurement is made according to DTS procedures KDB 558074 and IC standard RSS-210.

Limits for conducted peak output power measurements

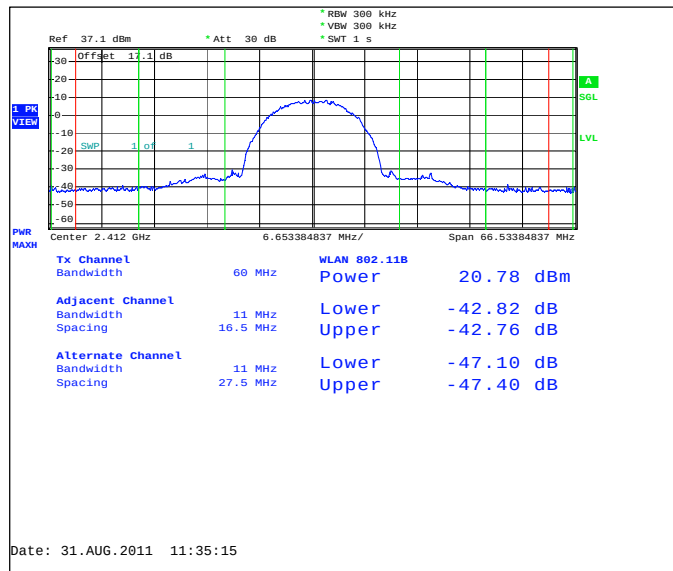
| Frequency range [MHz] | Limit [W] | Limit [dBm] |
|-----------------------|-----------|-------------|
| 2400 – 2483.5         | <= 1      | <= 30       |

### 2.3. WLAN Test results

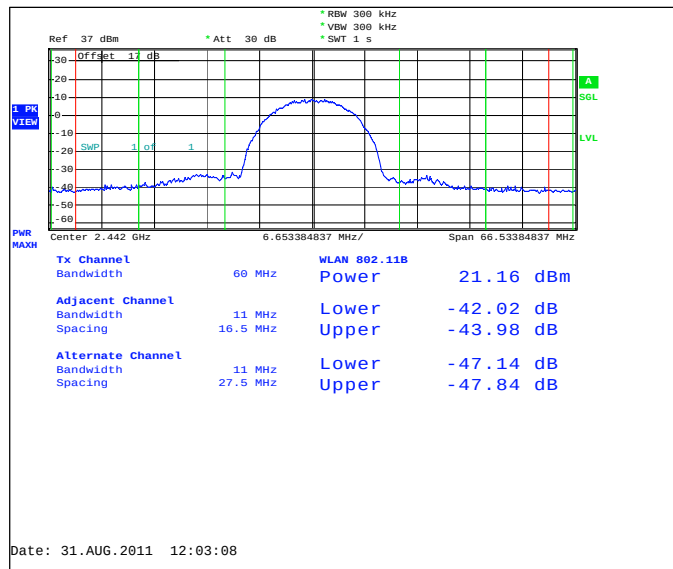
### 2.3.1 DSSS mode, 11 Mbps data rate

| Channel / f <sub>c</sub> [MHz] | P [dBm] | P [mW]  | Result |
|--------------------------------|---------|---------|--------|
| 1 / 2412                       | 20.78   | 119.674 | PASSED |
| 7 / 2442                       | 21.16   | 130.617 | PASSED |
| 11 / 2462                      | 21.48   | 140.605 | PASSED |

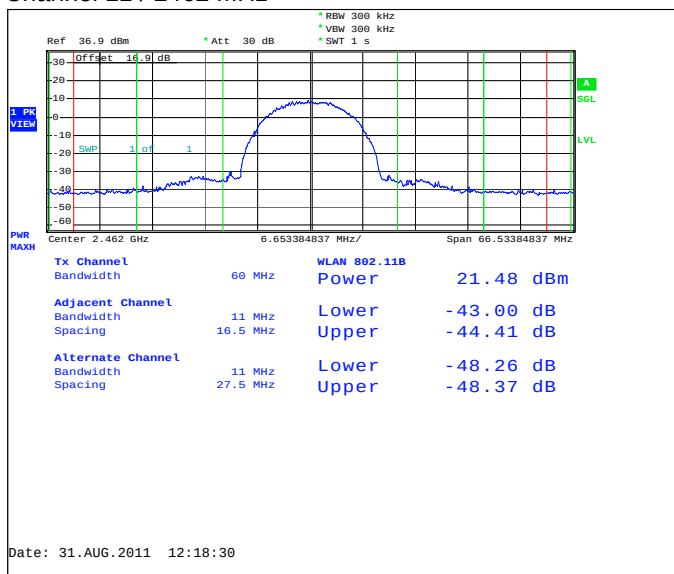
## Channel 1 / 2412 MHz



## Channel 7 / 2442 MHz



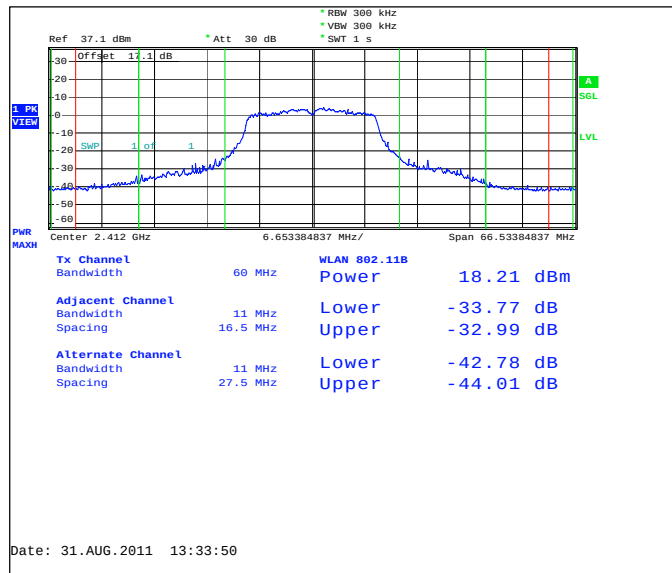
## Channel 11 / 2462 MHz



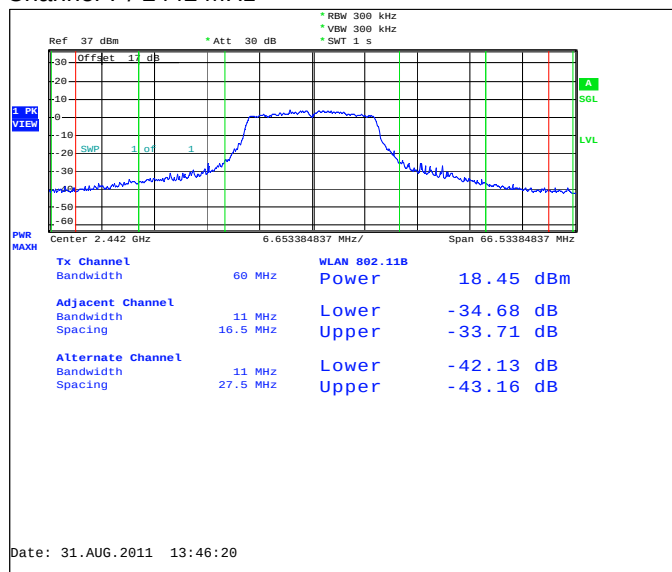
### 2.3.2 OFDM mode, 6 Mbps data rate

| Channel / $f_c$ [MHz] | P [dBm] | P [mW] | Result |
|-----------------------|---------|--------|--------|
| 1 / 2412              | 18.21   | 66.222 | PASSED |
| 7 / 2442              | 18.45   | 69.984 | PASSED |
| 11 / 2462             | 18.85   | 76.736 | PASSED |

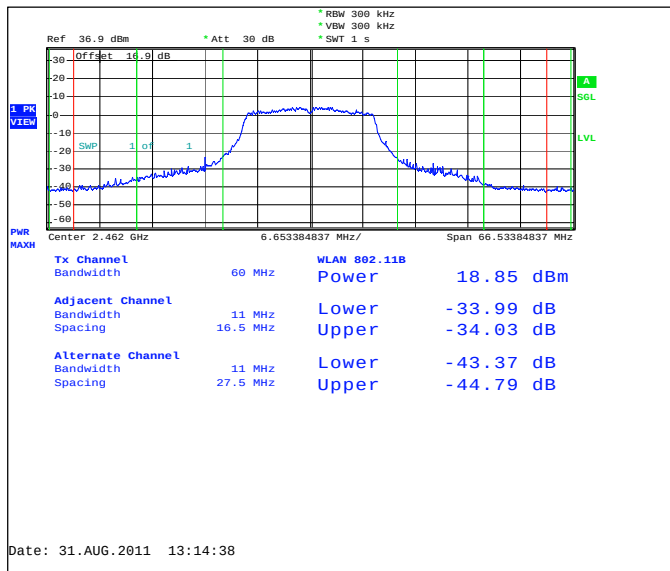
#### Channel 1 / 2412 MHz



#### Channel 7 / 2442 MHz



Channel 11 / 2462 MHz

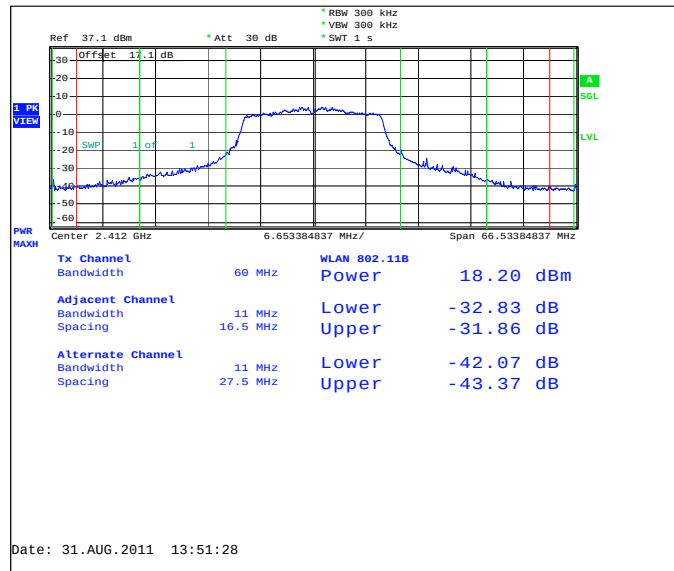




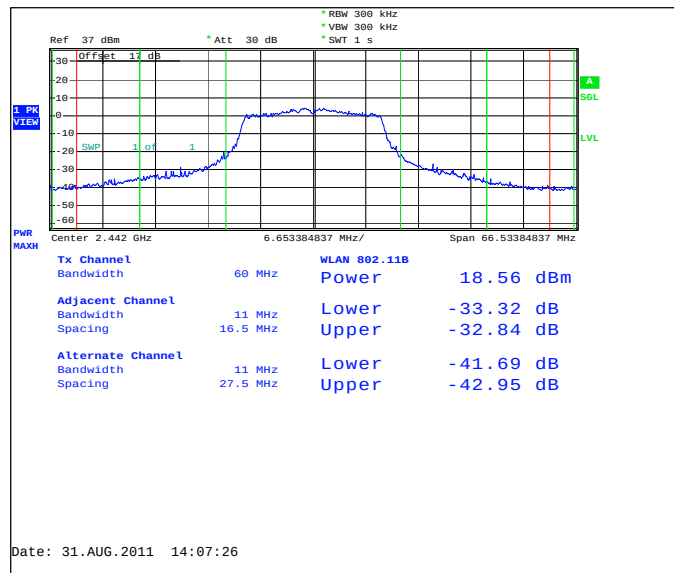
### 2.3.3 802.11 n-mode MSC 0 mode, Mbps data rate

| Channel / $f_c$ [MHz] | P [dBm] | P [mW] | Result |
|-----------------------|---------|--------|--------|
| 1 / 2412              | 18.2    | 66.069 | PASSED |
| 7 / 2442              | 18.56   | 71.779 | PASSED |
| 11 / 2462             | 18.87   | 77.09  | PASSED |

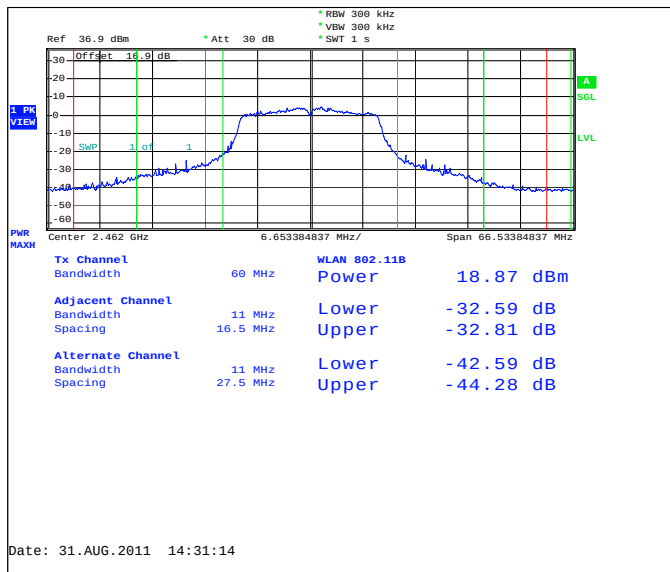
#### Channel 1 / 2412 MHz



#### Channel 7 / 2442 MHz



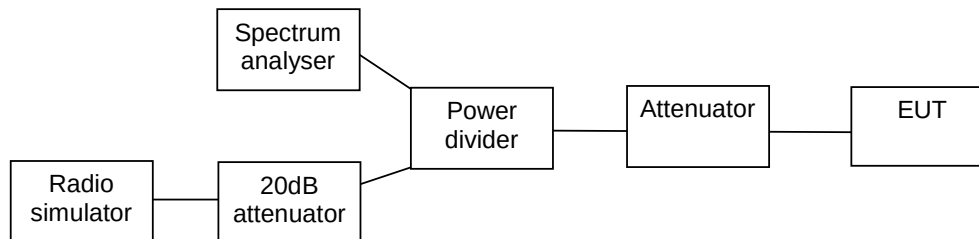
Channel 11 / 2462 MHz



### 3. Spurious RF conducted emissions (FCC §15.247(d), RSS-210 A8.5)

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| EUT with DUT number                             | RM-801, DUT 23497                   |
| Accessories with DUT numbers                    | BV-5JW DUT 23497, WH-902, DUT 23504 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                            |
| Results                                         | PASSED                              |
| Remarks                                         | None                                |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 24 / 55 / 101.9                     |
| Date of measurements                            | 31-Aug-2011                         |
| Measured by                                     | Ruben Hansen                        |

#### 3.1. Test Setup



#### 3.2. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-210.

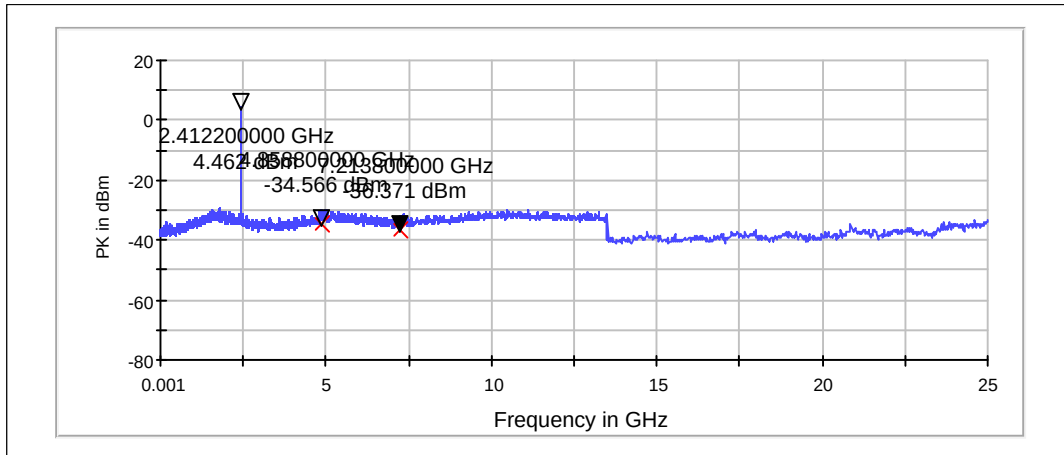
Limits for spurious RF conducted emissions measurements

| Frequency range [MHz] | Limit [dBc] |
|-----------------------|-------------|
| 1 – 25000             | <= -20      |

### 3.3. WLAN Test results

#### 3.3.1 DSSS mode, 11 Mbps data rate

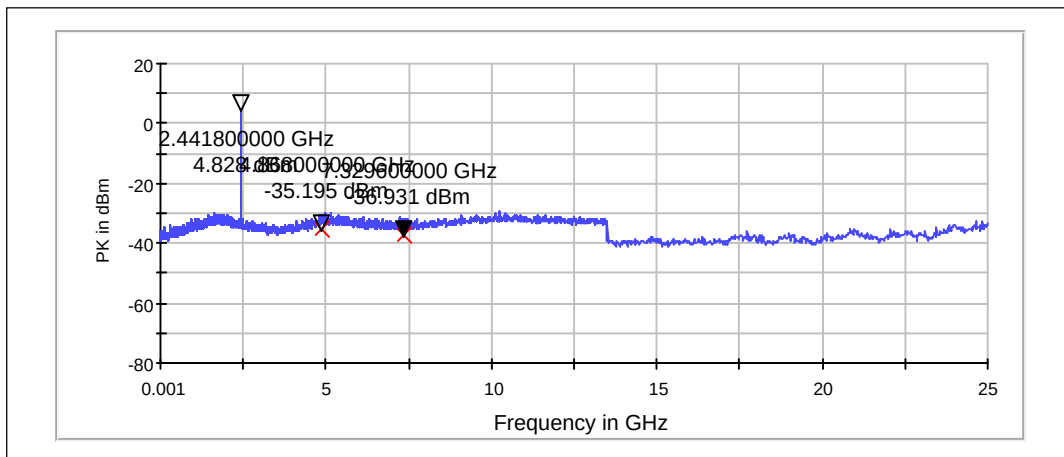
Channel 1 / 2412 MHz



Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4858.8          | -34.57  | PASSED |
| 7213.8          | -36.37  | PASSED |

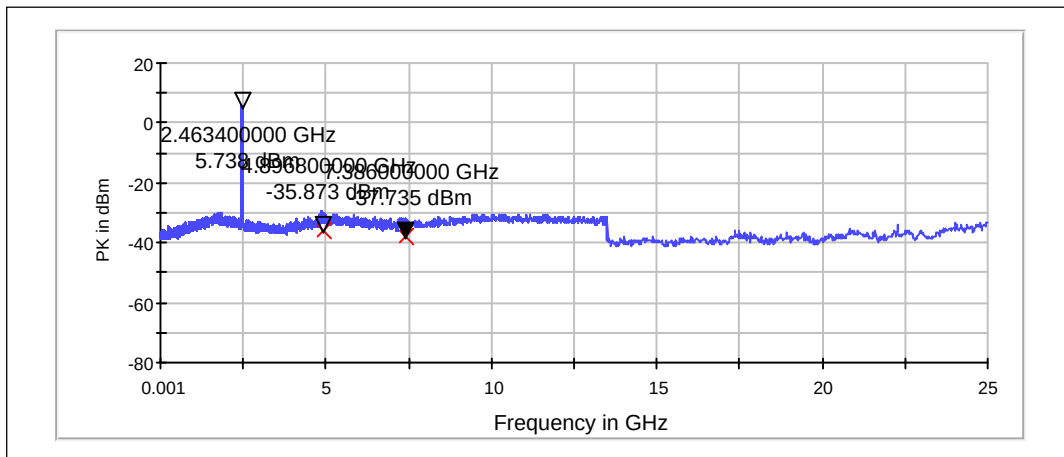
Channel 7 / 2442 MHz



Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4868            | -35.2   | PASSED |
| 7329.6          | -36.93  | PASSED |

Channel 11 / 2462 MHz

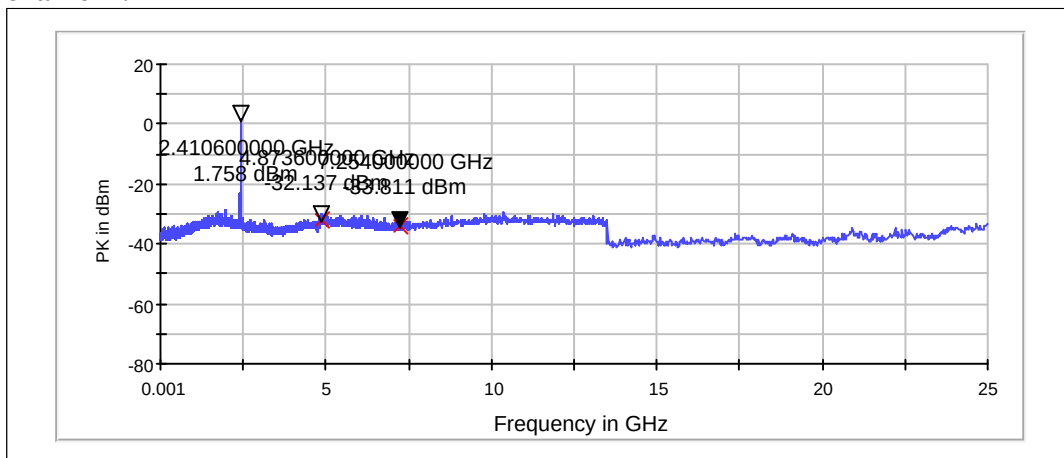


Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4896.8          | -35.87  | PASSED |
| 7386            | -37.74  | PASSED |

### 3.3.2 OFDM mode, 6 Mbps data rate

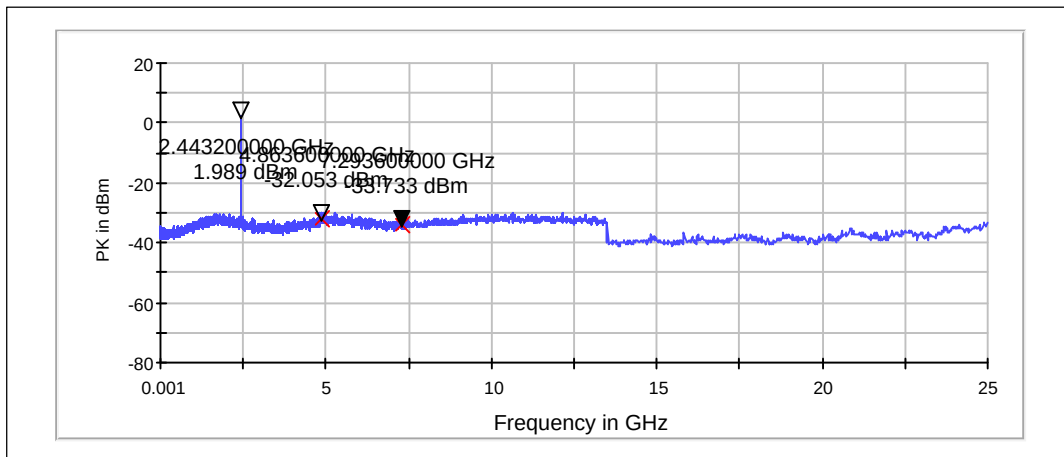
Channel 1 / 2412 MHz



Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4873.6          | -32.14  | PASSED |
| 7254            | -33.81  | PASSED |

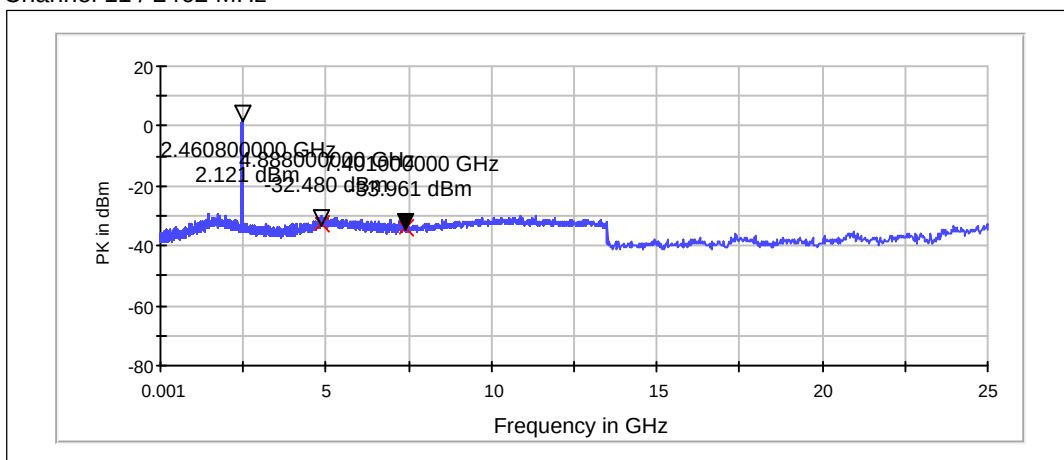
Channel 7 / 2442 MHz



Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4863.6          | -32.05  | PASSED |
| 7293.6          | -33.73  | PASSED |

Channel 11 / 2462 MHz

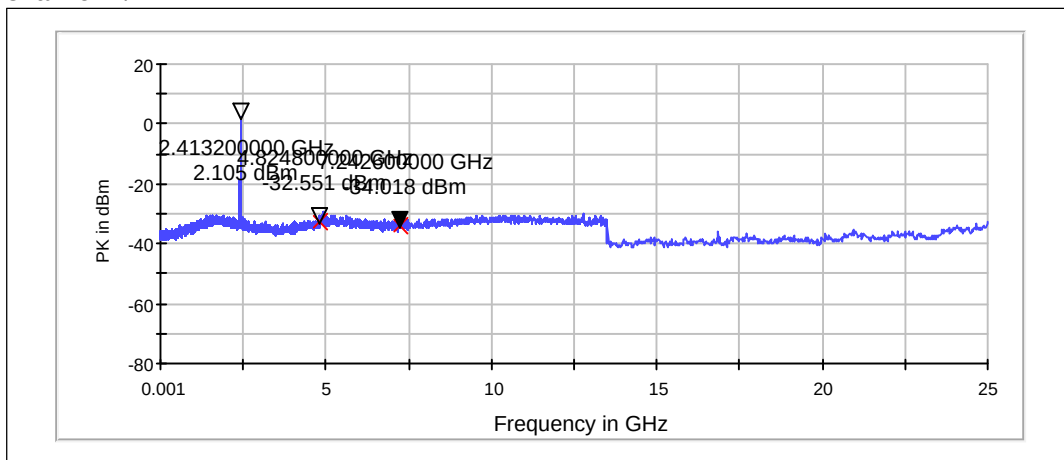


Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4888            | -32.48  | PASSED |
| 7401            | -33.96  | PASSED |

### 3.3.3 802.11 n-mode MSC 0 mode, Mbps data rate

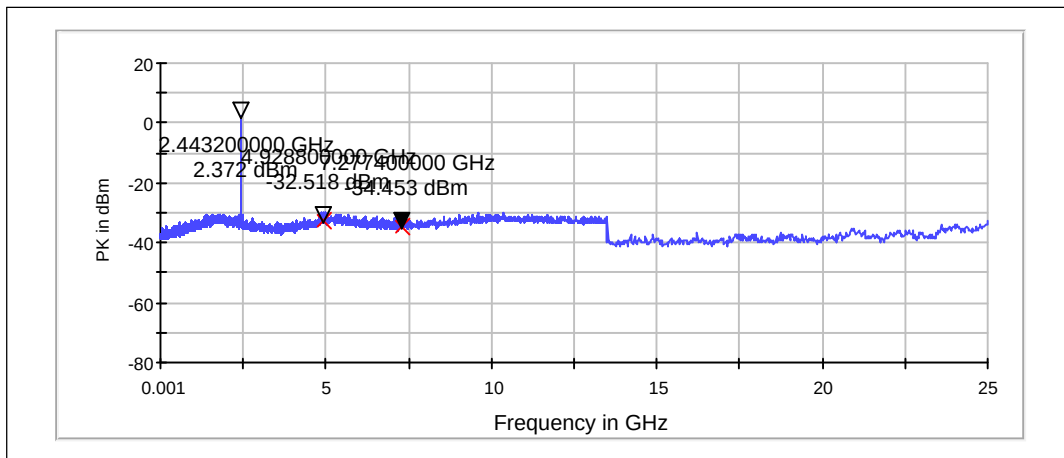
Channel 1 / 2412 MHz



Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4824.8          | -32.55  | PASSED |
| 7242.6          | -34.02  | PASSED |

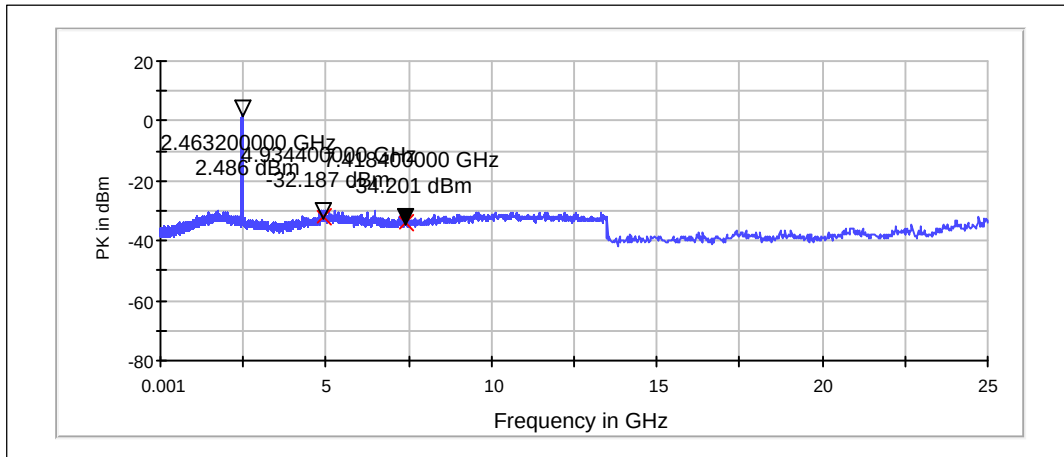
Channel 7 / 2442 MHz



Peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4928.8          | -32.52  | PASSED |
| 7277.4          | -34.45  | PASSED |

Channel 11 / 2462 MHz



Peak (RBW: 100 kHz, VBW: 100 kHz)

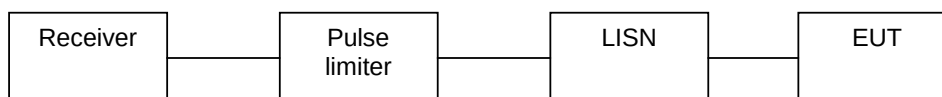
| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 4934.4          | -32.19  | PASSED |
| 7418.4          | -34.2   | PASSED |



#### 4. AC powerline conducted emissions (FCC §15.207, RSS-GEN 7.2.2)

|                                                 |                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------|
| EUT with DUT number                             | RM-801, DUT 23507                                                           |
| Accessories with DUT numbers                    | BV-5JW DUT 23507, CA-185, DUT 23506 ; AC-16E, DUT 23505 ; WH-902, DUT 23504 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                                                                    |
| Results                                         | PASSED                                                                      |
| Remarks                                         | None                                                                        |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 22 / 54 / 101.9                                                             |
| Date of measurements                            | 30-Aug-2011                                                                 |
| Measured by                                     | Ruben Hansen                                                                |

##### 4.1. Test Setup



##### 4.2. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-GEN as follows:

The EUT is placed on a wooden table 80 cm above the reference groundplane.

The EUT is connected via LISN to a test power supply.

The measurement results are obtained as described below:

$$U [dB\mu V/m] = U_{RX} + A_{TOT}$$

Where  $U_{RX}$  is receiver reading and  $A_{TOT}$  is total correction factor including cable and pulse limiter attenuations.

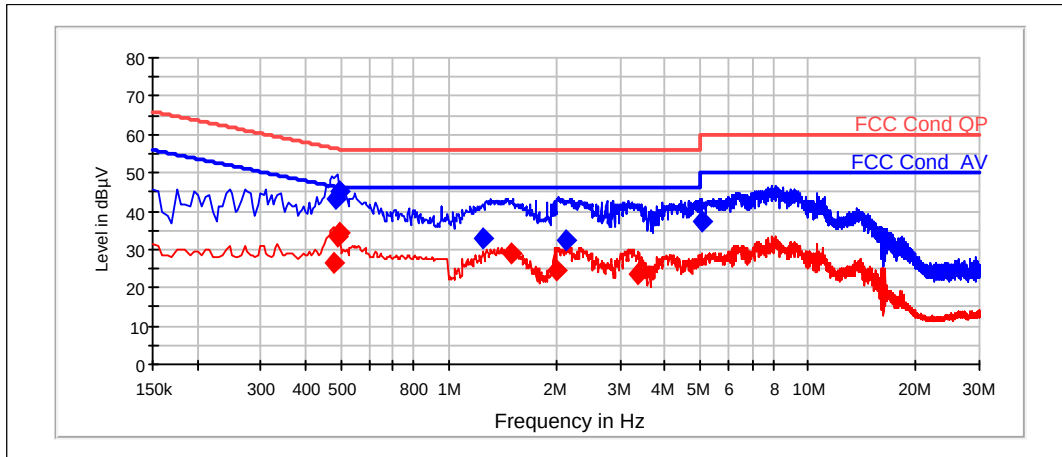
CISPR 22 Class B limits

| Frequency range [MHz] | Quasi peak limit [dBμV] | Average limit [dBμV] |
|-----------------------|-------------------------|----------------------|
| 0.15 - 0.5            | 66 - 56                 | 56 - 46              |
| 0.5 - 5               | 56                      | 46                   |
| 5 - 30                | 60                      | 50                   |

### 4.3. WLAN Test results

#### 4.3.1 DSSS mode, 11 Mbps data rate

Channel 40 / 2442 MHz



QuasiPeak (RBW: 9 kHz)

| Frequency [MHz] | U [dBμV] | Line | Result |
|-----------------|----------|------|--------|
| 0.485           | 43.15    | L1   | PASSED |
| 0.495           | 45.3     | N    | PASSED |
| 1.25            | 33.12    | L1   | PASSED |
| 2.115           | 32.34    | N    | PASSED |
| 5.055           | 37.06    | N    | PASSED |

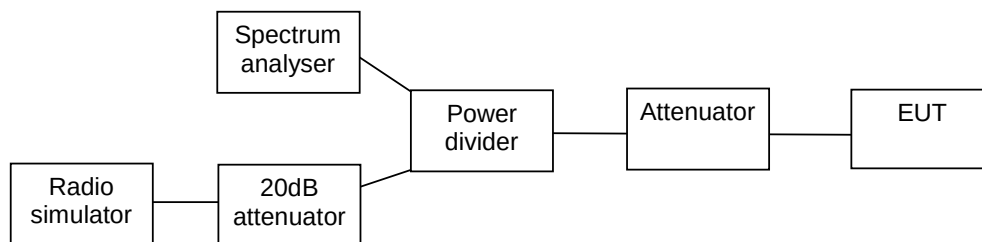
Average (RBW: 9 kHz)

| Frequency [MHz] | U [dBμV] | Line | Result |
|-----------------|----------|------|--------|
| 0.48            | 26.45    | L1   | PASSED |
| 0.49            | 33.35    | N    | PASSED |
| 0.495           | 34.26    | N    | PASSED |
| 1.485           | 28.88    | N    | PASSED |
| 2.005           | 24.75    | N    | PASSED |
| 3.345           | 23.7     | N    | PASSED |

## 5. 6 dB bandwidth (FCC §15.247(a)(2), RSS-210 A8.2 (1))

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| EUT with DUT number                             | RM-801, DUT 23497                   |
| Accessories with DUT numbers                    | BV-5JW DUT 23497, WH-902, DUT 23504 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                            |
| Results                                         | PASSED                              |
| Remarks                                         | None                                |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 24 / 55 / 101.9                     |
| Date of measurements                            | 31-Aug-2011                         |
| Measured by                                     | Ruben Hansen                        |

### 5.1. Test Setup



### 5.2. Test method and limit

The measurement is made according to DTS procedures KDB 558074 and IC standard RSS-210.

Limits for 6 dB bandwidth measurements

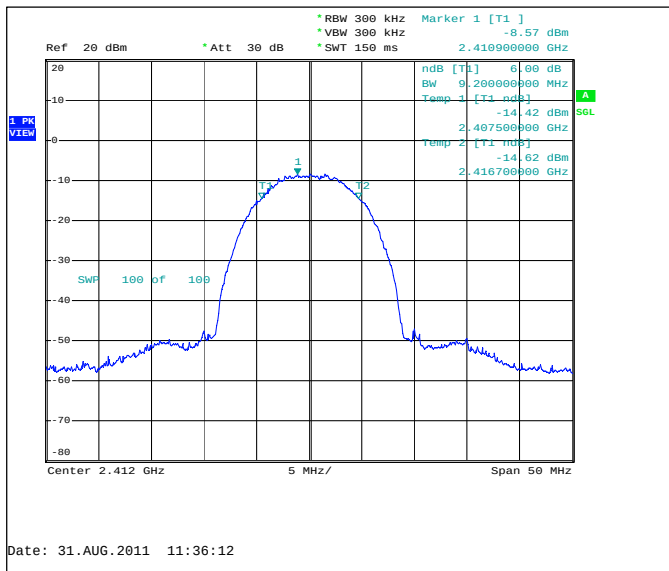
| Limit [kHz] |
|-------------|
| $\geq 500$  |

### 5.3. WLAN Test results

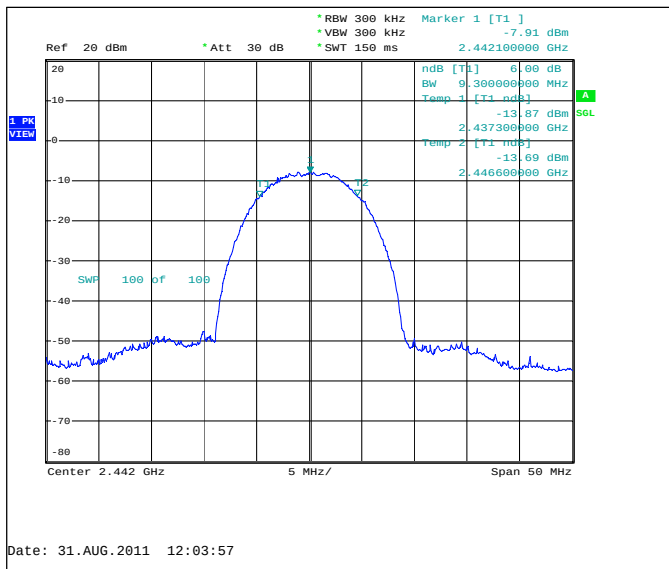
### 5.3.1 DSSS mode, 11 Mbps data rate

| Channel / $f_c$ [MHz] | 6 dB bandwidth [kHz] | Result |
|-----------------------|----------------------|--------|
| 1 / 2412              | 9200                 | PASSED |
| 7 / 2442              | 9300                 | PASSED |
| 11 / 2462             | 9200                 | PASSED |

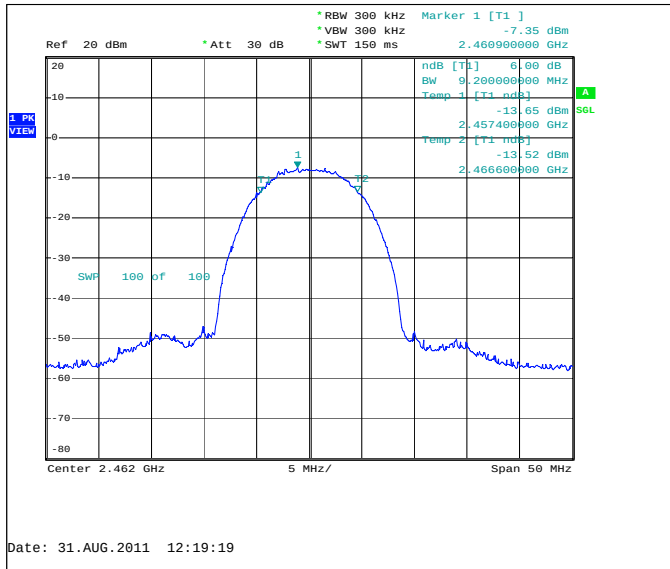
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



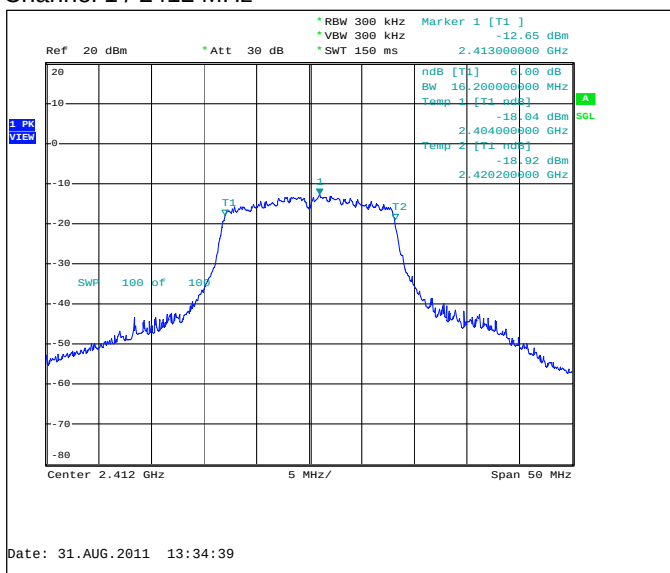
### Channel 11 / 2462 MHz



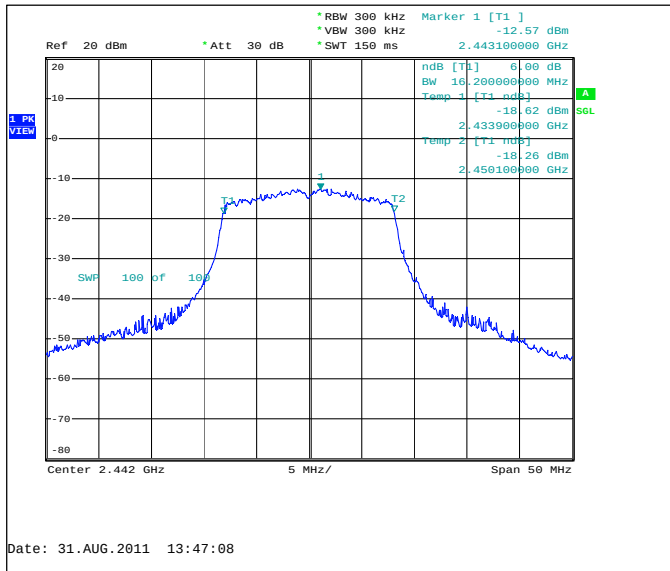
### 5.3.2 OFDM mode, 6 Mbps data rate

| Channel / f <sub>c</sub> [MHz] | 6 dB bandwidth [kHz] | Result |
|--------------------------------|----------------------|--------|
| 1 / 2412                       | 16200                | PASSED |
| 7 / 2442                       | 16200                | PASSED |
| 11 / 2462                      | 16300                | PASSED |

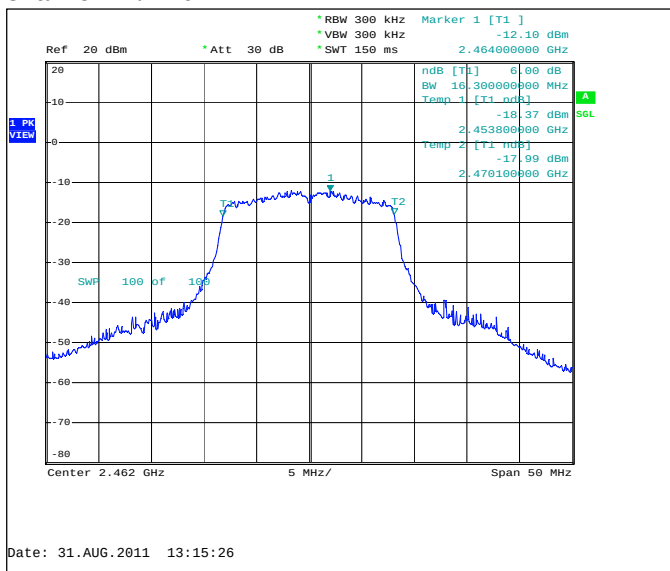
### Channel 1 / 2412 MHz



### Channel 7 / 2442 MHz



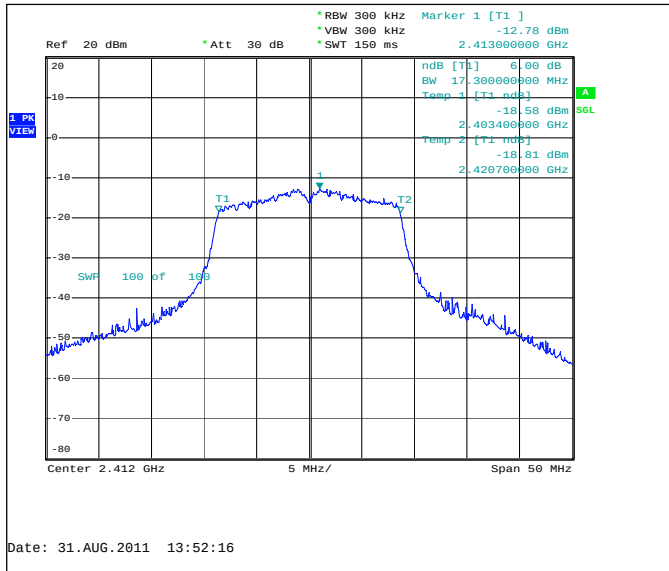
### Channel 11 / 2462 MHz



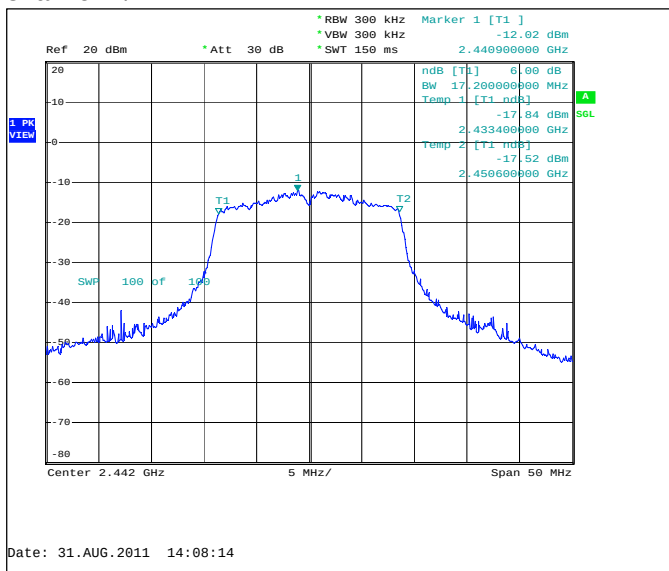
### 5.3.3 802.11 n-mode MSC 0 mode, Mbps data rate

| Channel / $f_c$ [MHz] | 6 dB bandwidth [kHz] | Result |
|-----------------------|----------------------|--------|
| 1 / 2412              | 17300                | PASSED |
| 7 / 2442              | 17200                | PASSED |
| 11 / 2462             | 17400                | PASSED |

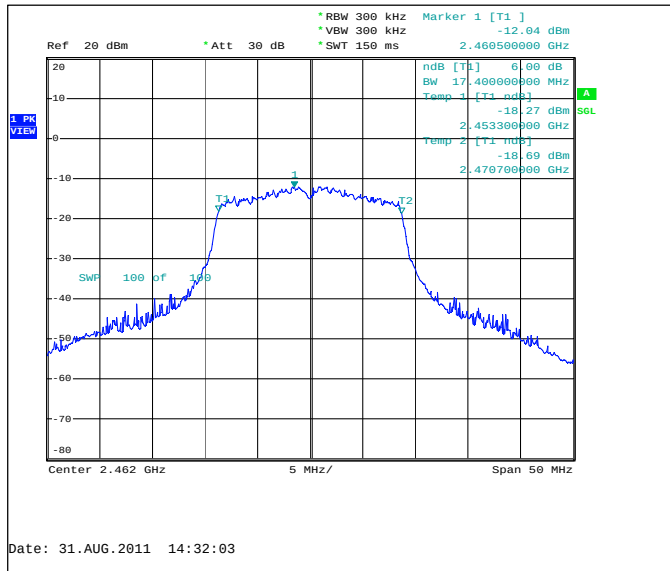
#### Channel 1 / 2412 MHz



#### Channel 7 / 2442 MHz



Channel 11 / 2462 MHz

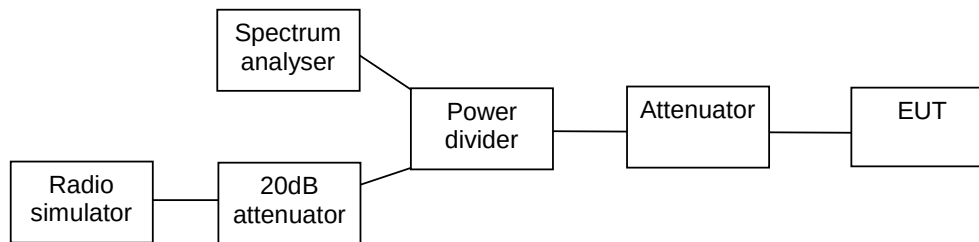




## 6. Power spectral density (FCC §15.247(e), RSS-210 A8.2 (2))

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| EUT with DUT number                             | RM-801, DUT 23497                   |
| Accessories with DUT numbers                    | BV-5JW DUT 23497, WH-902, DUT 23504 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                            |
| Results                                         | PASSED                              |
| Remarks                                         | None                                |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 24 / 55 / 101.9                     |
| Date of measurements                            | 31-Aug-2011                         |
| Measured by                                     | Ruben Hansen                        |

### 6.1. Test Setup



### 6.2. Test method and limit

The measurement is made according to DTS procedures KDB 558074 and IC standard RSS-210.

Limits for power spectral density measurements

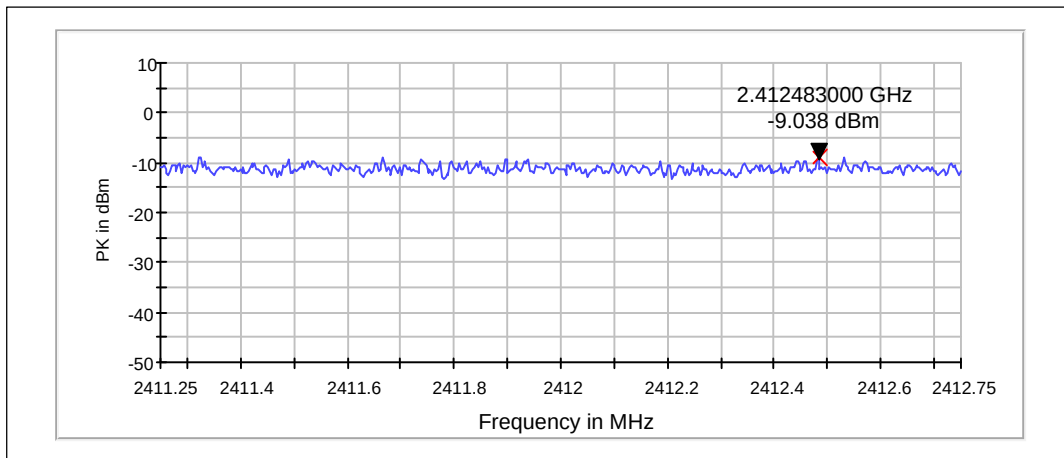
| Limit [dBm] @ 3 kHz |
|---------------------|
| <= 8                |

### 6.3. WLAN Test results

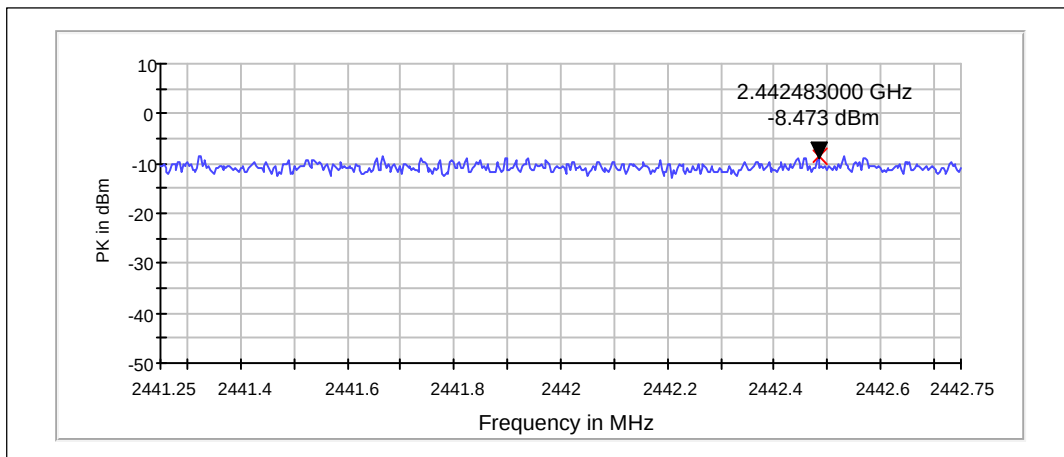
#### 6.3.1 DSSS mode, 11 Mbps data rate

| Channel / $f_c$ [MHz] | P [dBm] | Result |
|-----------------------|---------|--------|
| 1 / 2412              | -9.04   | PASSED |
| 7 / 2442              | -8.47   | PASSED |
| 11 / 2462             | -8.2    | PASSED |

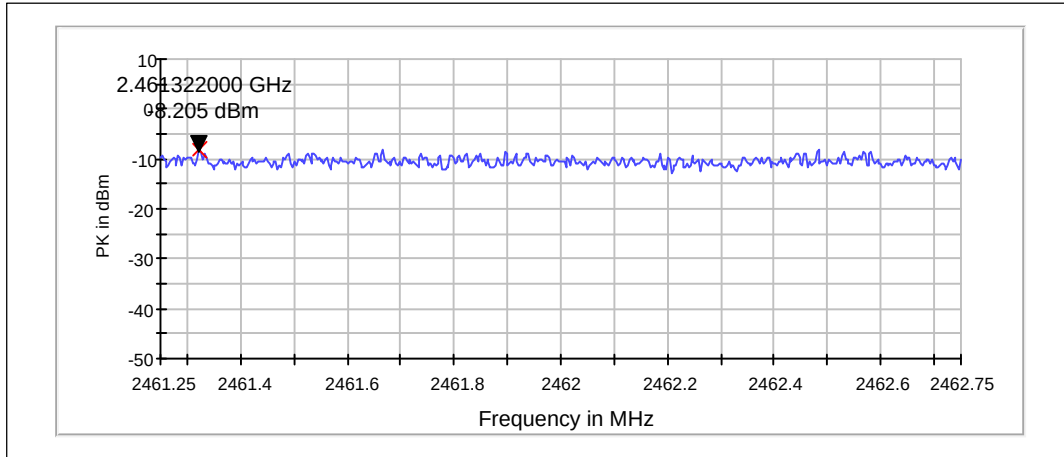
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



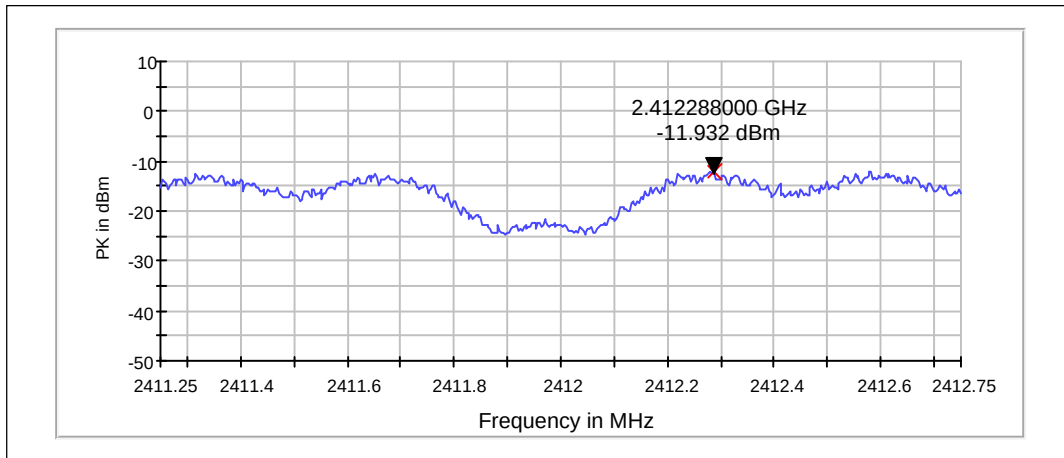
Channel 11 / 2462 MHz



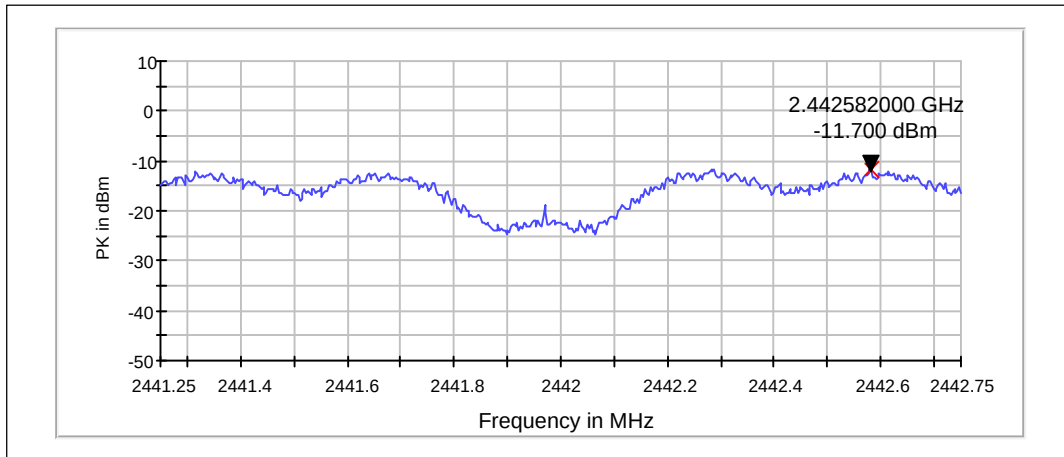
6.3.2 OFDM mode, 6 Mbps data rate

| Channel / $f_c$ [MHz] | P [dBm] | Result |
|-----------------------|---------|--------|
| 1 / 2412              | -11.93  | PASSED |
| 7 / 2442              | -11.7   | PASSED |
| 11 / 2462             | -11.22  | PASSED |

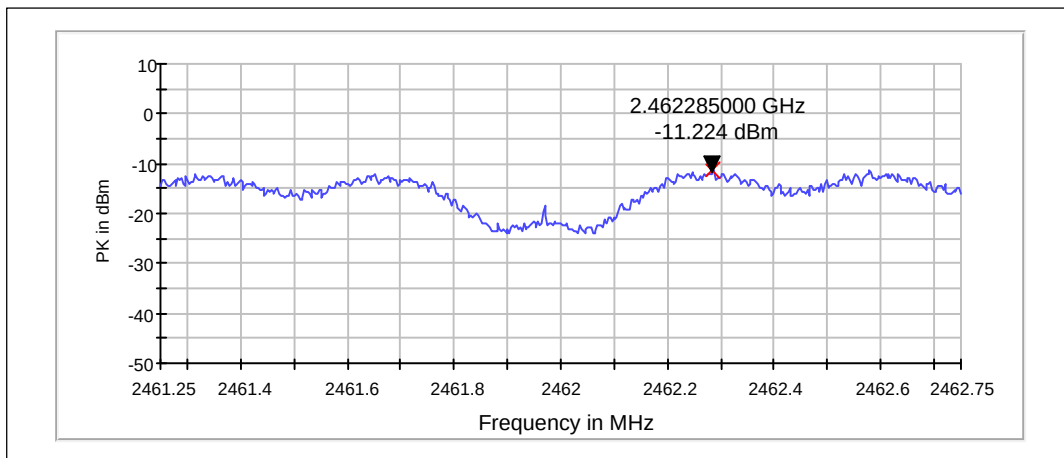
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



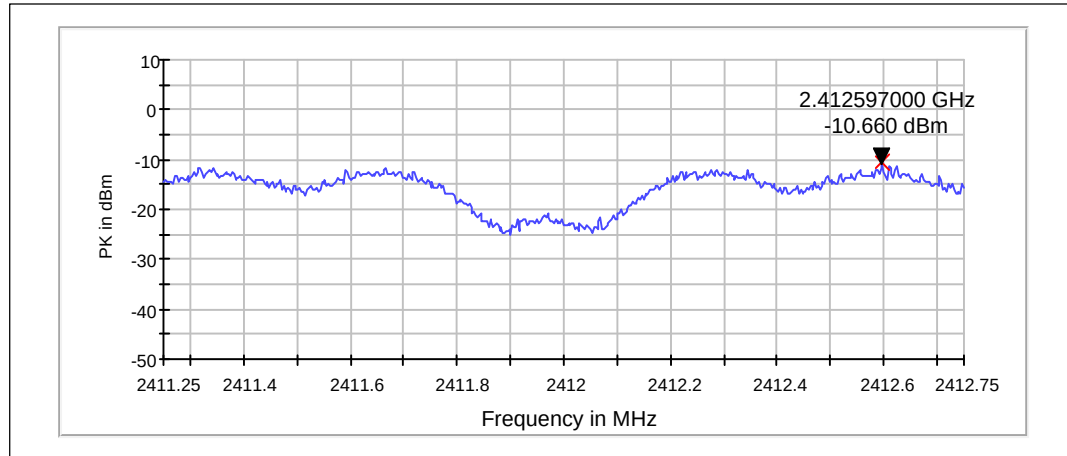
Channel 11 / 2462 MHz



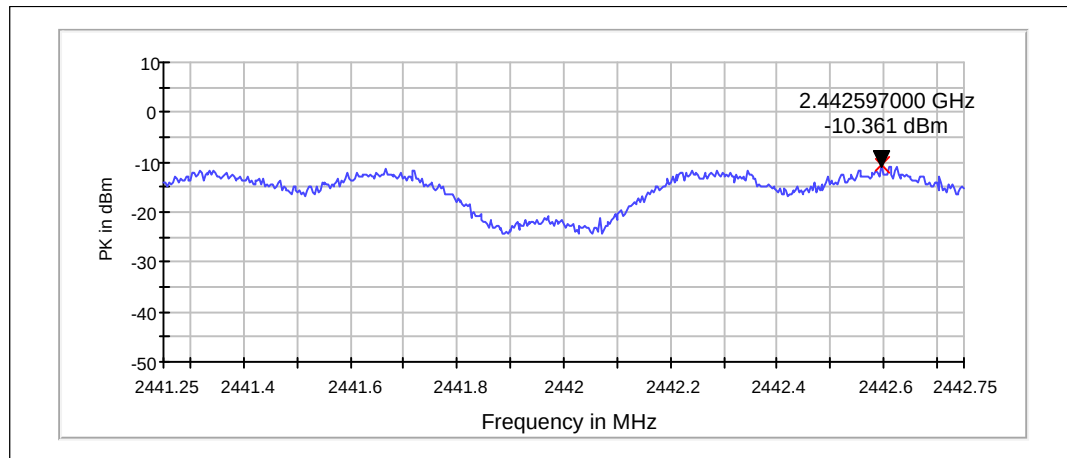
### 6.3.3 802.11 n-mode MSC 0 mode, Mbps data rate

| Channel / $f_c$ [MHz] | P [dBm] | Result |
|-----------------------|---------|--------|
| 1 / 2412              | -10.66  | PASSED |
| 7 / 2442              | -10.36  | PASSED |
| 11 / 2462             | -10.31  | PASSED |

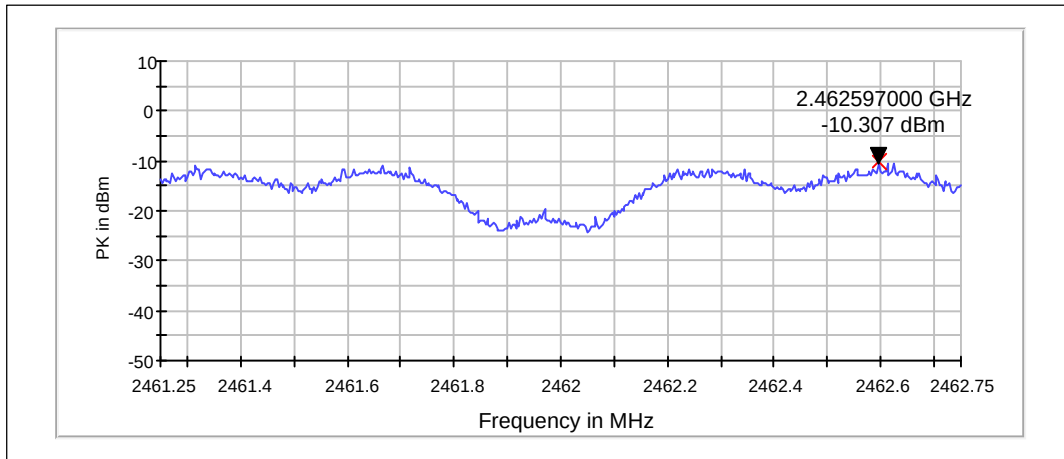
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



Channel 11 / 2462 MHz



## 7. Test Equipment

### 7.1. Conducted measurements

| Eq. No | Equipment                                      | Type         | Manufacturer   | Used in            |
|--------|------------------------------------------------|--------------|----------------|--------------------|
| 13037  | Power Supply 0-15V 10A                         | EA3012       | LP Instruments | 15C, 15B           |
| 13357  | Signal Generator                               | SMP02        | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 13513  | Pulse Limiter                                  | ESH3Z2       | Rohde&Schwarz  | 15C, 15B           |
| 13666  | Receiver                                       | ESPC         | Rohde&Schwarz  | 15C, 15B           |
| 13935  | LISN                                           | ESH3-Z5      | Rohde&Schwarz  | 15C, 15B           |
| 20682  | LISN                                           | ESH3-Z5      | Rohde&Schwarz  | 15C, 15B           |
| 16601  | Communication Tester                           | CMU200       | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 16995  | Directional Coupler 20dB 0,5-2,0 GHz SMA Conn. | 1538RA-20    | Weinschel      | 15C, 15B           |
| 18772  | Shielded Chamber                               | RFD-100      | ETS-Lindgren   | 15C, 15B           |
| 18772  | Shielded Chamber                               | RFD-100      | ETS-Lindgren   | 15C, 15B           |
| 19116  | Power splitter                                 | -            | various        | 22/24/27, 15C, 15B |
| 19171  | Communication Tester                           | CMU200       | Rohde&Schwarz  | 15C, 15B           |
| 19625  | Climatic Chamber                               | VT4002EMC    | Vötsch         | 22/24/27, 15C, 15B |
| 19678  | Spectrum Analyzer                              | FSP          | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 20168  | Bluetooth Tester                               | CBT          | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 20543  | UPS. 700V/A 490W                               | PW 9120 700i | Powerware      | 22/24/27, 15C, 15B |
| 20544  | Transformer. 230/115V                          | -            | Nokia          | 22/24/27, 15C, 15B |
| 20739  | Communication Tester                           | CMU200       | Rohde&Schwarz  | 15C, 15B           |

### 7.2. Radiated measurements

| Eq. No | Equipment                                     | Type                   | Manufacturer           | Used in            |
|--------|-----------------------------------------------|------------------------|------------------------|--------------------|
| 13077  | Power Supply                                  | EA-3016                | -                      | 22/24/27, 15C, 15B |
| 13799  | Signal Generator                              | SMP02                  | Rohde&Schwarz          | 22/24/27, 15C, 15B |
| 13936  | Band reject filter                            | WRCD1747.5-0.2/40-10SS | Wainwright Instruments | 22/24/27, 15C, 15B |
| 13937  | Band reject filter                            | WRCA902.4-0.2/40-6SS   | Wainwright Instruments | 22/24/27, 15C, 15B |
| 14021  | Relay Dual 6 Chnl $\mu$ Wave Mux              | 10-785-522             | -                      | 22/24/27, 15C, 15B |
| 14114  | Highpass Filter                               | WHK1000-12SS           | Wainwright Instruments | 22/24/27, 15C, 15B |
| 14187  | Band reject filter                            | WRCD1747.5-0.2/40-10SS | Wainwright             | 22/24/27, 15C, 15B |
| 14188  | Band reject filter                            | WRCA902.4-0.2/40-6SS   | Wainwright             | 22/24/27, 15C, 15B |
| 14900  | Antenna Controller                            | HD100                  | HD GmbH                | 22/24/27, 15C, 15B |
| 15191  | Turntable Contoller Unit                      | G-800SDX               | YAESU                  | 22/24/27, 15C, 15B |
| 15742  | Programmable Relay Switching System           | -----                  | Pickering              | 22/24/27, 15C, 15B |
| 16633  | Band reject filter                            | WRCD1880.0-0.2/40-10SS | Wainwright             | 22/24/27, 15C, 15B |
| 16948  | Dual 6 Channel MUX Microwave Relay SMA 50 Ohm | 10-785-522             | Pickering              | 22/24/27, 15C, 15B |
| 16949  | Dual 6 Channel MUX Microwave Relay SMA 50 Ohm | 10-785-522             | Pickering              | 22/24/27, 15C, 15B |
| 17644  | Dual 6 Channel MUX Microwave Relay SMA 50 Ohm | 10-785-522             | Pickering              | 22/24/27, 15C, 15B |
| 18416  | Communication Tester                          | CMU200                 | Rohde&Schwarz          | 22/24/27, 15C, 15B |
| 18773  | Anechoic chamber                              | RFD-100                | ETS-Lindgren           | 22/24/27, 15C, 15B |
| 18774  | Anechoic chamber                              | RFSD-F/A-100           | ETS-Lindgren           | 22/24/27, 15C, 15B |

| Eq. No | Equipment                        | Type                            | Manufacturer  | Used in            |
|--------|----------------------------------|---------------------------------|---------------|--------------------|
| 18792  | Mast/turntable controller        | 2090                            | ETS-EMCO      | 22/24/27, 15C, 15B |
| 18860  | Antenna                          | HL562                           | Rohde&Schwarz | 22/24/27, 15C, 15B |
| 19151  | High Pass Filter                 | WHJS3000-10SS                   | Wainwright    | 22/24/27, 15C, 15B |
| 19587  | Band reject filter               | WRCG2400/2483-2390/2493-35/10SS | Wainwright    | 22/24/27, 15C, 15B |
| 19966  | Antenna                          | HFH2-Z2                         | Rohde&Schwarz | 15C, 15B           |
| 20078  | Relay 2x6 Chnl $\mu$ Wave Mux    | 10-785B-522                     | Pickering     | 22/24/27, 15C, 15B |
| 20114  | Band reject filter               | WRCG1737/1743-1733/1747-40/6SS  | Wainwright    | 22/24/27, 15C, 15B |
| 20115  | Band reject filter               | -                               | Wainwright    | 22/24/27, 15C, 15B |
| 20116  | Band reject filter               | WRCG832/83/-825/845-40/5SS      | Wainwright    | 22/24/27, 15C, 15B |
| 20168  | Bluetooth Tester                 | CBT                             | Rohde&Schwarz | 22/24/27, 15C, 15B |
| 20543  | UPS. 700V/A 490W                 | PW 9120 700i                    | Powerware     | 22/24/27, 15C, 15B |
| 20544  | Transformer. 230/115V            | -                               | Nokia         | 22/24/27, 15C, 15B |
| 20698  | Antenna                          | BBHA 9120 D                     | SCHWARZBECK   | 22/24/27, 15C, 15B |
| -      | Relay Dual 6 Chnl $\mu$ Wave Mux | 10-785-522                      | -             | 22/24/27, 15C, 15B |