

FCC Part 15C Compliance Test Report

Test Report no.:	Salo_FCC_0917_16.doc	Date of Report:	23-Apr-2009
Number of pages:	29	Customer's Contact person:	Futoshi Kimura
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FCC listing no.:	94436		
IC recognition no.:	3608		
Tested devices/ accessories:	Phone RM-505 / Battery BP-4L, AC-Charger AC-10E, Headset HS-45, Audio Adapter AD-54		
FCC ID:	QVVRM-507	IC:	661AE-RM507
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart C, ANSI C63.4 (2003), Public Notice DA 00-705, DTS procedures KDB 558074, IC standards RSS-GEN (Issue 2, June 2007) and RSS-210 (Issue 7, June 2007). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		
Documentation:	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.		
Test Results:	The EUT complies with the requirements in respect of all parameters subject to the test. The test results relate only to devices specified in this document.		
Date and signature for the contents:			

Anni Manninen, Test System Manager

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	18-Feb-2009
Testing completed	02-Mar-2009
The customer's contact person	Futoshi Kimura
Test Plan referred to	T:\Projects\RM-505\TestPlan_RS\RS_testplan_RM-505.xls
Notes	-
Document name	T:\Projects\RM-507\EMC\Results\FCC\Salo_FCC_0917_16.doc

1.1. EUT and Accessory Information

The EUT is a 7-band (GSM850/900/1800/1900 and WCDMA Band I/II(1900)/V(850)) mobile phone with GPRS, EGPRS, Bluetooth, WLAN and FM transmitter. Bluetooth and WLAN are tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-505	004401104484635	2001	-	52.50.2009.05.1	41812
Phone	RM-505	004401104483645	2004	-	52.50.2009.05.1	41810
AC-Charger	AC-10E	3997918435120502280;0675408	-	-	-	41799
AC-Charger	AC-10E	3997918435120502256;0675408	-	-	-	41798
Headset	HS-45	06942358116C1M21281	-	-	-	41805
Headset	HS-45	06942358116C1M21290	-	-	-	41806
Audio Adapter	AD-54	0750838837362108309	-	-	-	41807
Audio Adapter	AD-54	0750838837362108297	-	-	-	41808
Battery	BP-4L	3932138504160863833;0670520	-	-	-	41801
Battery	BP-4L	3932138504160863833;0670520	-	-	-	41801

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)	A8.4 (4)	Conducted peak output power	PASSED
15.247(d)	A8.5	Band edge compliance of RF emissions	NP
15.247(d)	A8.5	Spurious RF conducted emissions	PASSED
15.247(d), 15.209	A8.5	Spurious radiated emissions	PASSED
15.207	7.2.2	AC powerline conducted emissions	PASSED
15.247(a)(2)	A8.2 (a)	6 dB bandwidth	PASSED
15.247(e)	A8.2 (b)	Power spectral density	PASSED

PASSED

The EUT complies with the essential requirements in the standard.

FAILED

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

NP

The test was not performed by the TCC Nokia Tampere Laboratory.

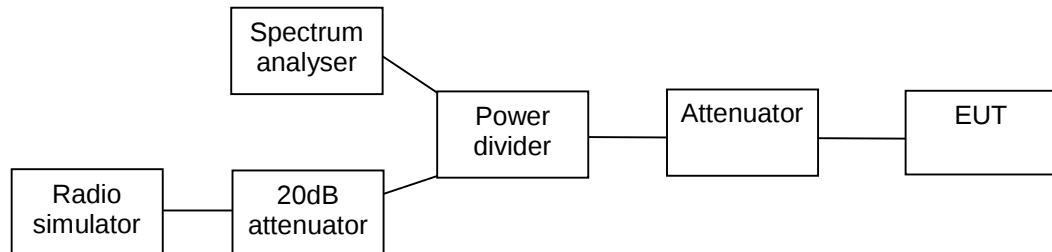
"The test results of QVVRM-507 are re-used for certification of the QVVRM-505. The table above indicates the results, which will be re-used."

CONTENTS

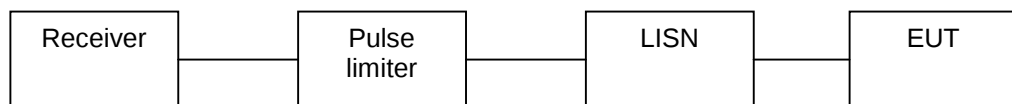
1. Summary for FCC Part 15C Compliance Test Report.....	2
1.1. EUT and Accessory Information	2
1.2. Summary of Test Results	2
2. Test setups.....	4
2.1. Conducted RF test setup	4
2.2. AC powerline conducted emissions test setup.....	4
2.3. Radiated test setup	4
3. Conducted peak output power (FCC §15.247(b)(1), RSS-210 A8.4 (4))	5
3.1. Test method and limit.....	5
3.2. WLAN Test results	6
4. Spurious RF conducted emissions (FCC §15.247(d), RSS-210 A8.5).....	9
4.1. Test method and limit.....	9
4.2. WLAN Test results	10
5. Spurious radiated emissions (FCC §15.247(d), §15.209, RSS-210 A8.5).....	13
5.1. Test method and limit.....	13
5.2. WLAN Test results	14
6. AC powerline conducted emissions (FCC §15.207, RSS-GEN 7.2.2)	17
6.1. Test method and limit.....	17
6.2. WLAN Test results	18
7. 6 dB bandwidth (FCC §15.247(a)(2), RSS-210 A8.2 (a))	20
7.1. Test method and limit.....	20
7.2. WLAN test results	21
8. Power spectral density (FCC §15.247(e), RSS-210 A8.2 (b))	24
8.1. Test method and limit.....	24
8.2. WLAN test results	25
9. Test Equipment.....	28
9.1. Conducted measurements	28
9.2. Radiated measurements	28

2. Test setups

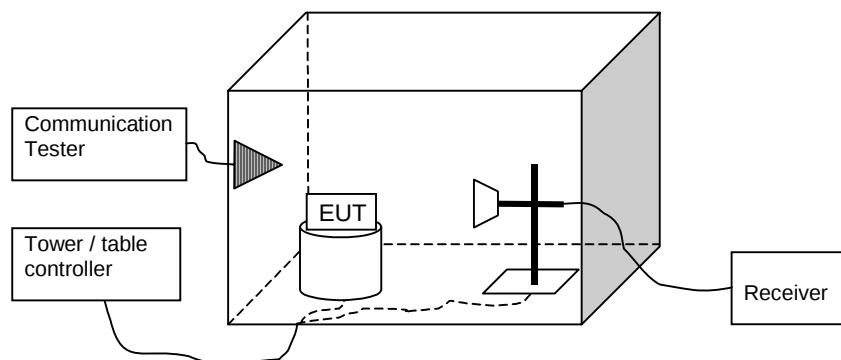
2.1. Conducted RF test setup



2.2. AC powerline conducted emissions test setup



2.3. Radiated test setup



3. Conducted peak output power (FCC §15.247(b)(1), RSS-210 A8.4 (4))

EUT with DUT number	RM-505 DUT 41812
Accessories with DUT numbers	BP-4L DUT 41801 / AD-54 DUT 41807 / HS-45 DUT 41805 / AC-10E DUT 41799
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 45 / 102.7
Date of measurements	20-Feb-2009
Measured by	Petteri Suni

3.1. 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

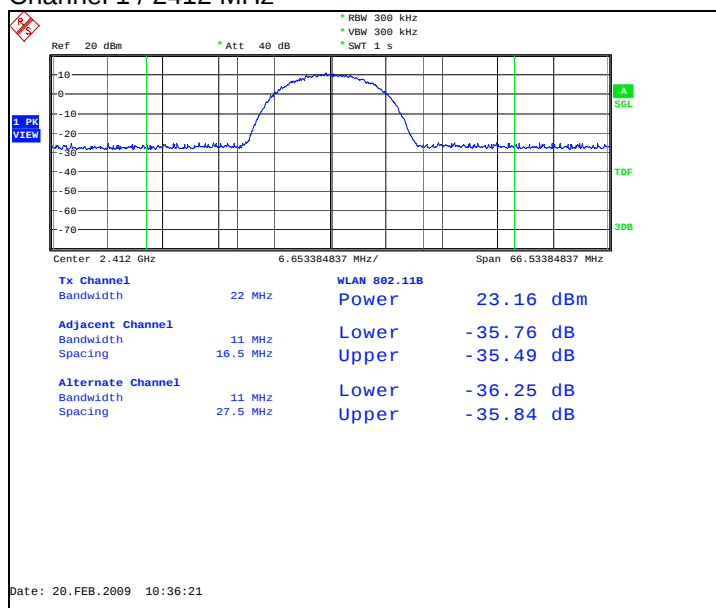
Frequency range [MHz]	Limit [W]	Limit [dBm]
2400 – 2483.5	≤ 1	≤ 30

3.2. WLAN Test results

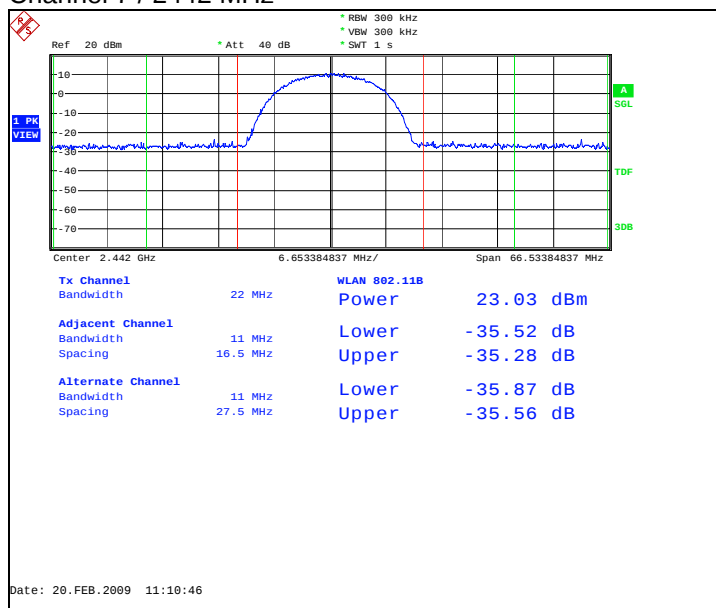
3.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel / f_c [MHz]	P [dBm]	P [W]	Result
1 / 2412	23.22	0.210	PASSED
7 / 2442	23.03	0.201	PASSED
11 / 2462	23.13	0.206	PASSED

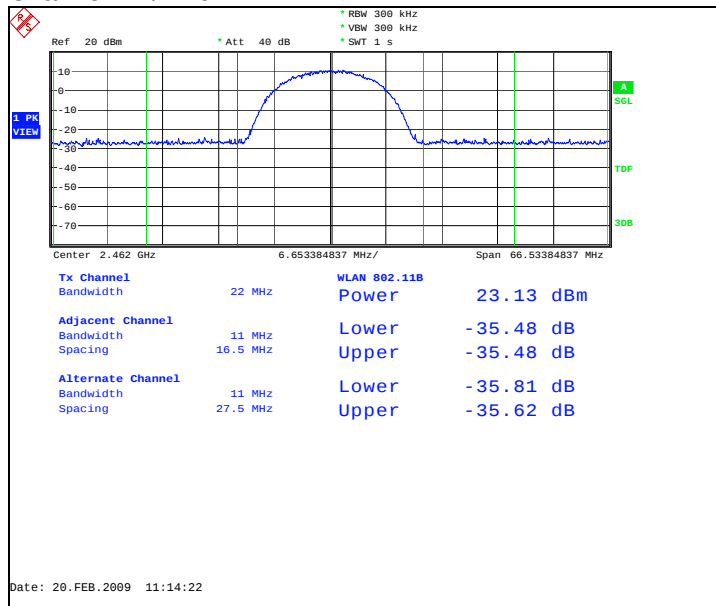
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



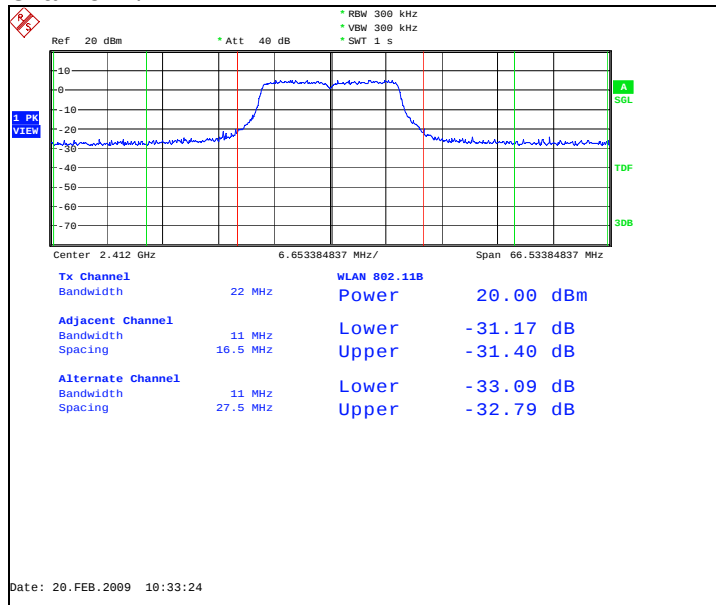
Channel 11 / 2462 MHz



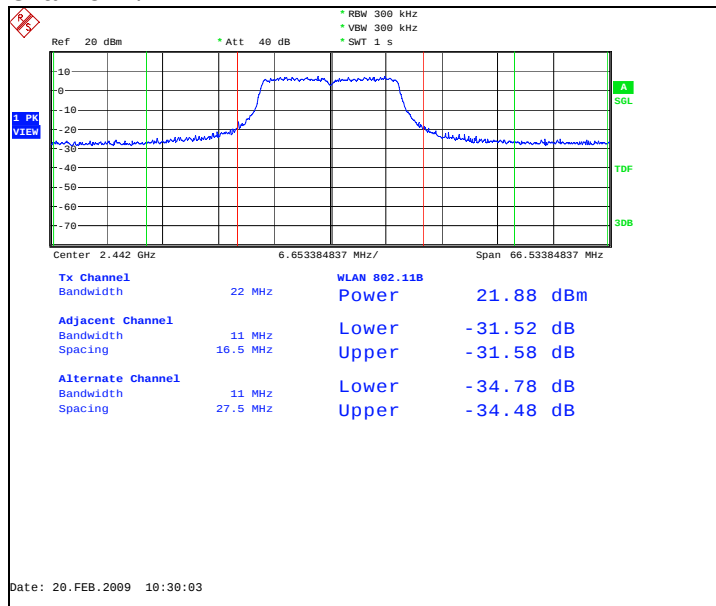
3.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [W]	Result
1 / 2412	20.00	0.100	PASSED
7 / 2442	21.88	0.154	PASSED
11 / 2462	19.98	0.100	PASSED

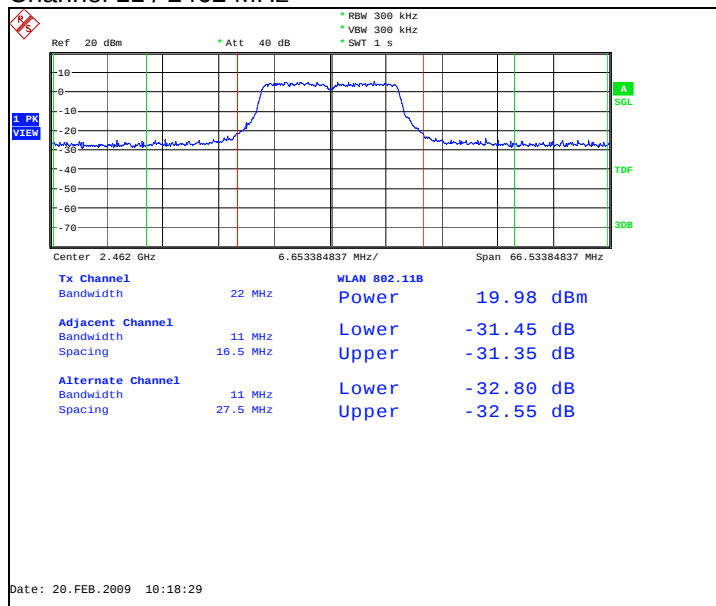
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



Channel 11 / 2462 MHz



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

EUT with DUT number	RM-505 DUT 41812
Accessories with DUT numbers	BP-4L DUT 41801 / AD-54 DUT 41807 / HS-45 DUT 41805 / AC-10E DUT 41799
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 45 / 102.7
Date of measurements	20-Feb-2009
Measured by	Petteri Suni

4.1. Test method and limit

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

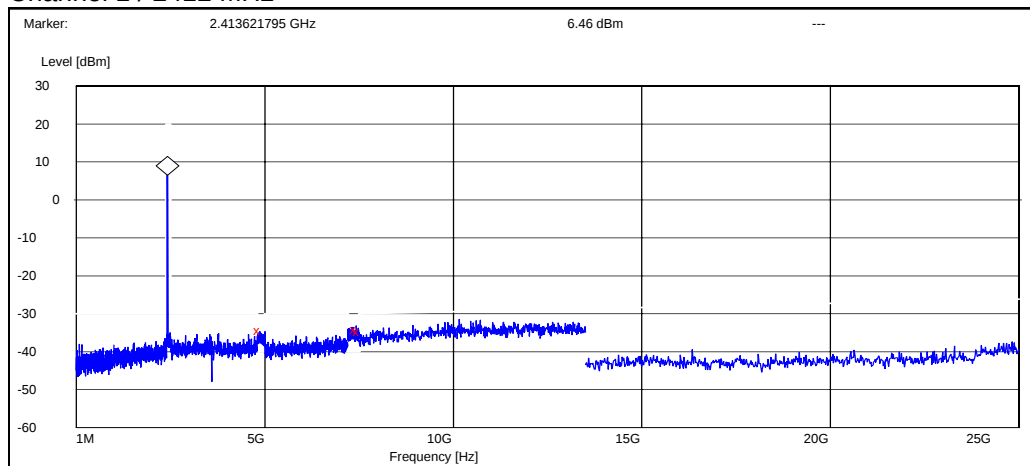
Limits for spurious RF conducted emissions measurements

Frequency range [MHz]	Limit [dBc]
1 – 25000	≤ -20

4.2. WLAN Test results

4.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

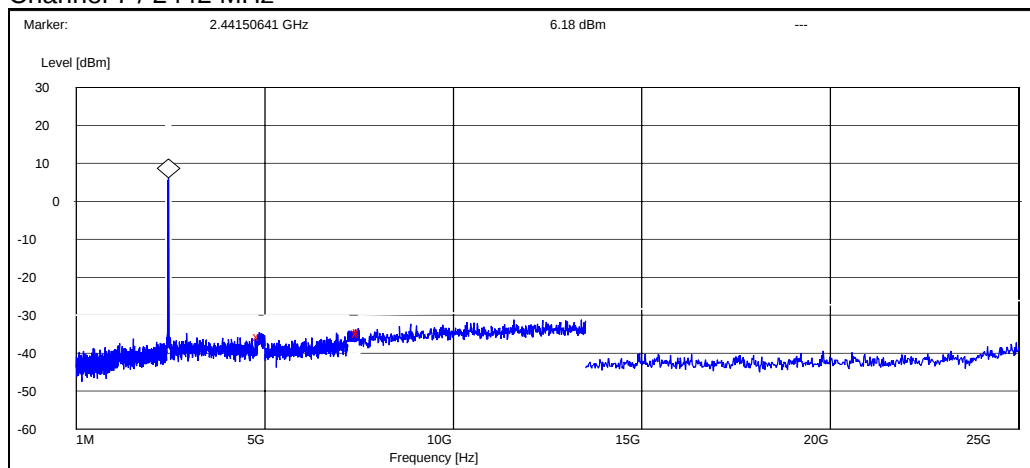
Channel 1 / 2412 MHz



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

Frequency [MHz]	P [dBc]	Result
4867.628205	-40.757057	PASSED
7421.634615	-40.657057	PASSED
7500.000000	-40.957057	PASSED

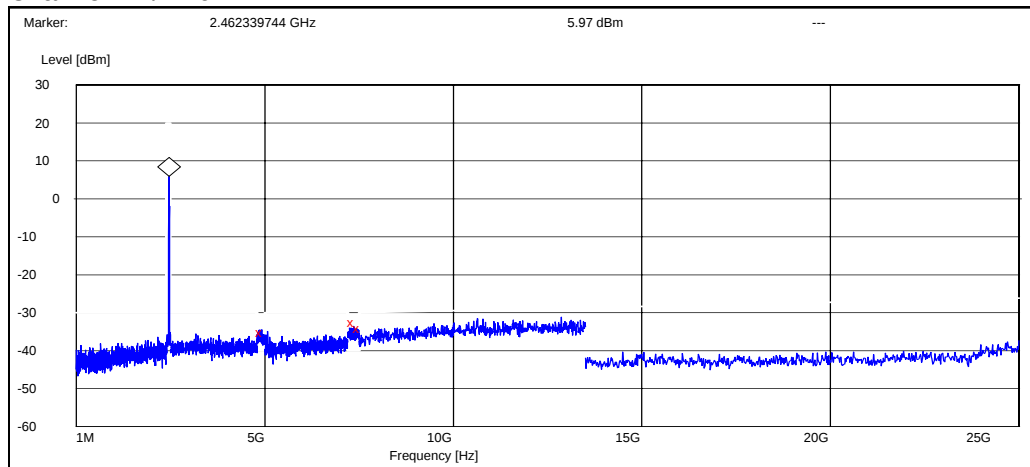
Channel 7 / 2442 MHz



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

Frequency [MHz]	P [dBc]	Result
4849.358974	-41.883391	PASSED
7478.846154	-40.883391	PASSED
7500.000000	-40.483391	PASSED

Channel 11 / 2462 MHz

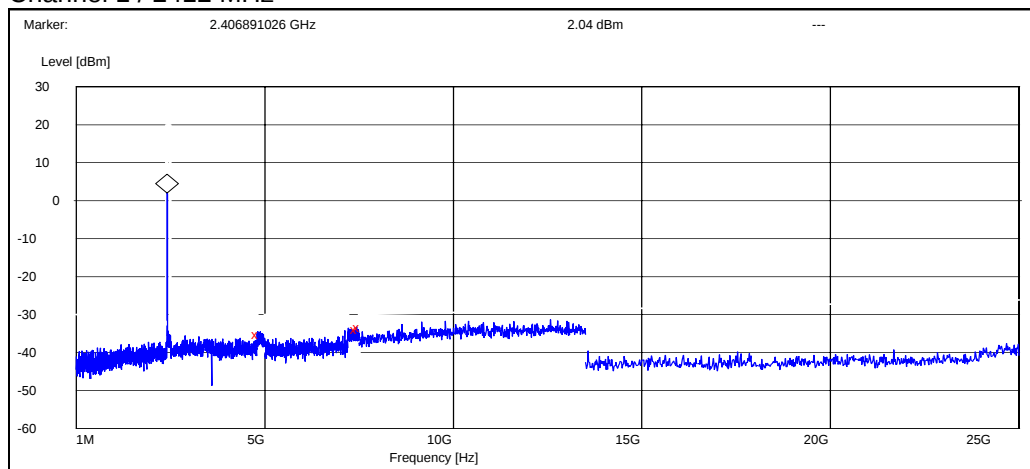


Peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	P [dBc]	Result
4917.948718	-41.071478	PASSED
7354.326923	-38.571478	PASSED
7500.000000	-40.071478	PASSED

4.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

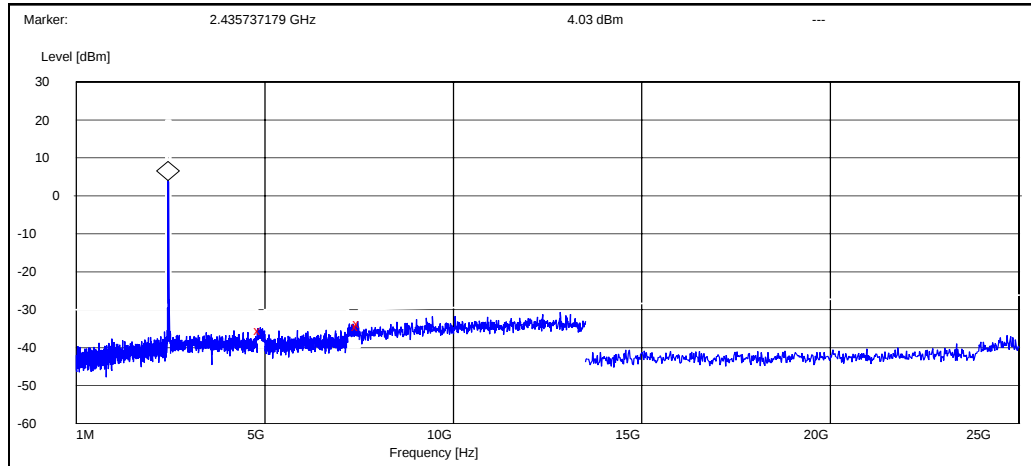
Channel 1 / 2412 MHz



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

Frequency [MHz]	P [dBc]	Result
4810.576923	-37.335283	PASSED
7440.865385	-35.935283	PASSED
7500.000000	-35.535283	PASSED

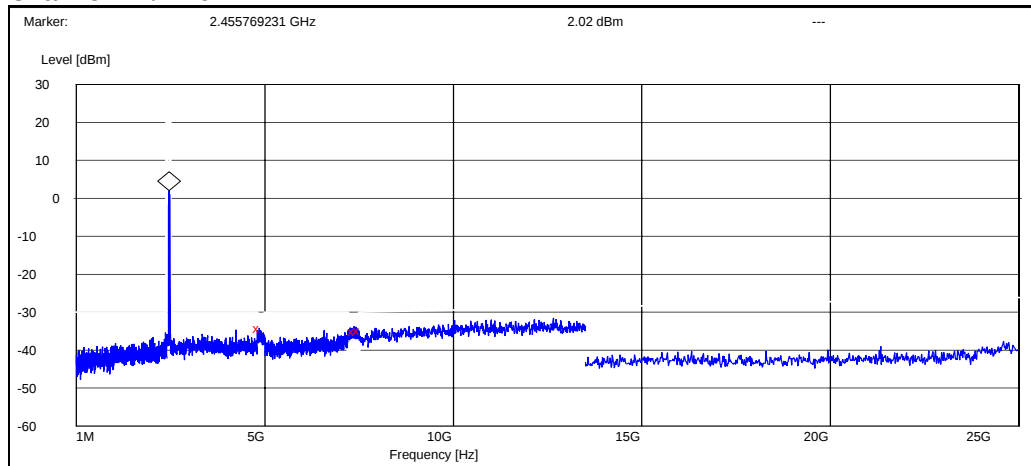
Channel 7 / 2442 MHz



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

Frequency [MHz]	P [dBc]	Result
4883.012821	-39.328747	PASSED
7458.173077	-38.428747	PASSED
7500.000000	-37.628747	PASSED

Channel 11 / 2462 MHz



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

Frequency [MHz]	P [dBc]	Result
4855.448718	-36.322396	PASSED
7362.019231	-37.122396	PASSED
7500.000000	-36.922396	PASSED

5. Spurious radiated emissions (FCC §15.247(d), §15.209, RSS-210 A8.5)

EUT with DUT number	RM-505 DUT 41810
Accessories with DUT numbers	BP-4L DUT 41801 / AC-10E DUT 41798 / AD-54 DUT 41808 / HS-45 DUT 41806
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	Slide open
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	24 / 48 / 101.7
Date of measurements	02-Mar-2009
Measured by	Jari Jantunen

5.1. Test method and limit

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

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system.

The Final Measurement is performed in the Semi-Anechoic Chamber with conducting metal floor, if the Preliminary Measurement results are closer than 20 dB to the permissible value.

The EUT is placed at nonconductive plate at the turntable center.

For each suspected frequency, the turntable is rotated 360 degrees and antenna is scanned from 1 to 4 m. This is repeated for both horizontal and vertical receive antenna polarizations.

The emissions less than 20 dB below the permissible value are reported.

The measurement results are obtained as described below:

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

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$).

Limits for spurious radiated emissions measurements (3 m measurement distance)

Frequency range [MHz]	Limit [$\mu\text{V/m}$]	Limit [dB $\mu\text{V/m}$]	Detector
30 – 88	100	40	Quasi peak
88 – 216	150	43.5	Quasi peak
216 – 960	200	46	Quasi peak
960 – 1000	500	54	Quasi peak
Above 1000	500	54	Average
Above 1000	5000	74	Peak

5.2. WLAN Test results

5.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel 1 / 2412 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	50.10	319.89	51.50	-1.4	VERTICAL	PASSED
7236.000000	52.50	421.70	49.40	3.1	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	40.70	108.39	42.10	-1.4	VERTICAL	PASSED
7236.000000	40.90	110.92	37.80	3.1	HORIZONTAL	PASSED

Channel 7 / 2442 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
37.876353	21.40	11.75	35.40	-14.0	VERTICAL	PASSED
74.948497	18.40	8.32	42.00	-23.6	HORIZONTAL	PASSED
75.169940	18.10	8.04	41.70	-23.6	VERTICAL	PASSED
115.249299	21.00	11.22	42.90	-21.9	VERTICAL	PASSED

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4875.751503	44.30	164.06	45.80	-1.5	HORIZONTAL	PASSED
7310.625251	46.10	201.84	42.70	3.4	HORIZONTAL	PASSED
7313.129259	46.10	201.84	42.70	3.4	HORIZONTAL	PASSED
17923.345691	53.40	467.74	33.60	19.8	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4875.751503	30.90	35.08	32.40	-1.5	HORIZONTAL	PASSED
7311.625251	33.20	45.71	29.80	3.4	HORIZONTAL	PASSED
7314.129259	33.10	45.19	29.70	3.4	HORIZONTAL	PASSED
17924.345691	40.60	107.15	20.80	19.8	HORIZONTAL	PASSED

Channel 11 / 2462 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	44.80	173.78	46.10	-1.3	HORIZONTAL	PASSED
7386.000000	45.40	186.21	41.90	3.5	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	37.00	70.79	38.30	-1.3	HORIZONTAL	PASSED
7386.000000	32.70	43.15	29.20	3.5	HORIZONTAL	PASSED

5.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel 1 / 2412 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	47.00	223.87	48.40	-1.4	VERTICAL	PASSED
7236.000000	58.10	803.53	55.00	3.1	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	38.10	80.35	39.50	-1.4	VERTICAL	PASSED
7236.000000	38.10	80.35	35.00	3.1	HORIZONTAL	PASSED

Channel 7 / 2442 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.976353	19.30	9.23	33.40	-14.1	VERTICAL	PASSED
74.208016	12.90	4.42	36.60	-23.7	HORIZONTAL	PASSED
75.169940	13.70	4.84	37.30	-23.6	HORIZONTAL	PASSED
120.058918	17.30	7.33	39.20	-21.9	VERTICAL	PASSED

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4884.269539	46.90	221.31	48.30	-1.4	HORIZONTAL	PASSED
7323.651303	59.30	922.57	56.00	3.3	HORIZONTAL	PASSED
7330.661323	59.20	912.01	55.90	3.3	HORIZONTAL	PASSED
17996.995992	54.00	501.19	34.20	19.8	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4884.269539	32.90	44.16	34.30	-1.4	HORIZONTAL	PASSED
7323.651303	40.40	104.71	37.10	3.3	HORIZONTAL	PASSED
7326.661323	40.20	102.33	36.90	3.3	HORIZONTAL	PASSED

17998.495992	40.80	109.65	21.00	19.8	HORIZONTAL	PASSED
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Channel 11 / 2462 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4924.000000	44.20	162.18	45.50	-1.3	HORIZONTAL	PASSED
7386.000000	51.80	389.05	48.30	3.5	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4924.000000	36.10	63.83	37.40	-1.3	HORIZONTAL	PASSED
7386.000000	32.70	43.15	29.20	3.5	HORIZONTAL	PASSED

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

EUT with DUT number	RM-505 DUT 41810
Accessories with DUT numbers	BP-4L DUT 41801 / AC-10E DUT 41798 / AD-54 DUT 41808 / HS-45 DUT 41806
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 45 / 101.3
Date of measurements	24-Feb-2009
Measured by	Jari Jantunen

6.1. Test method and limit

The measurement is made according to DTS procedures KDB 558074 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:

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

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

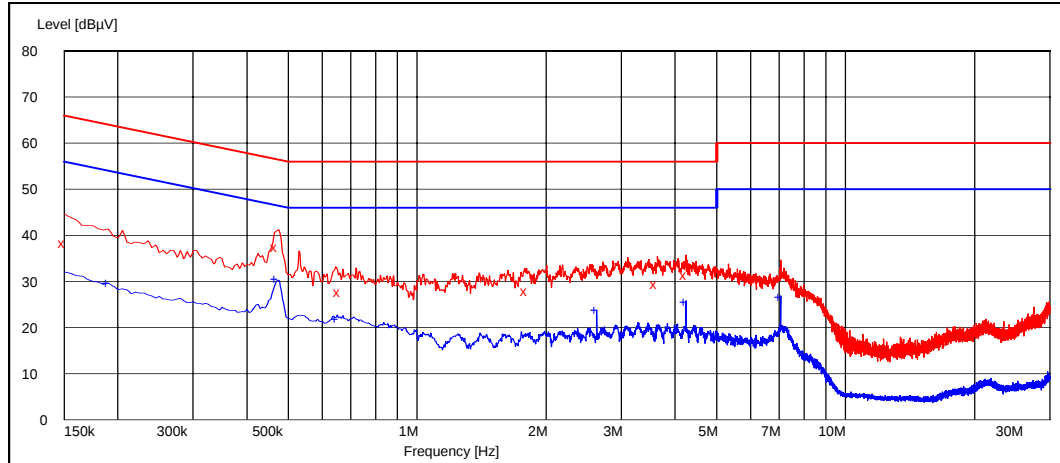
CISPR 22 Class B limits

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

6.2. WLAN Test results

6.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel 7 / 2442 MHz



Quasi peak (RBW: 9 kHz)

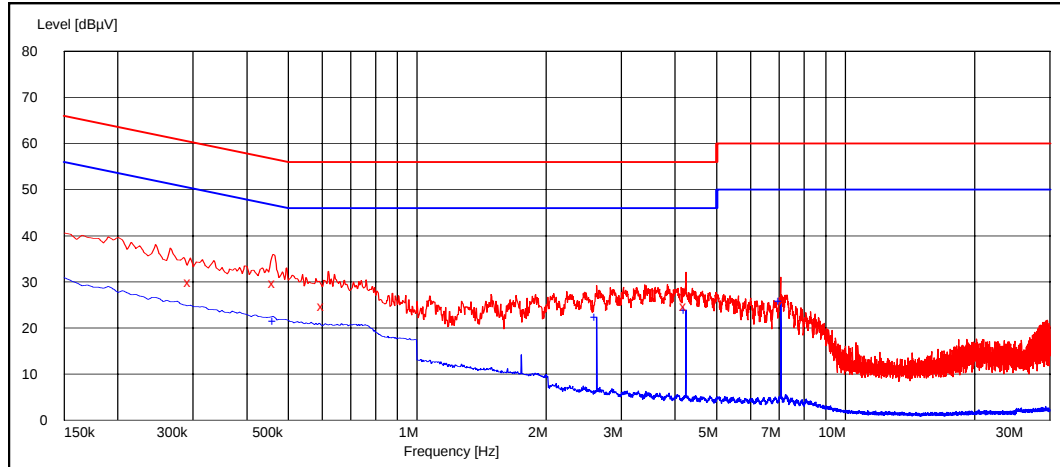
Frequency [MHz]	U [dBμV]	Line	Result
0.150000	38.30	N	PASSED
0.470000	37.50	L1	PASSED
0.660000	27.60	L1	PASSED
1.800000	27.80	L1	PASSED
3.620000	29.40	L1	PASSED
4.240000	31.30	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.190000	29.60	N	PASSED
0.470000	30.60	L1	PASSED
0.650000	21.80	L1	PASSED
2.625000	23.90	L1	PASSED
4.240000	25.60	L1	PASSED
7.065000	26.70	L1	PASSED

6.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel 7 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.295000	29.90	L1	PASSED
0.465000	29.80	L1	PASSED
0.605000	24.70	N	PASSED
4.240000	24.80	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.465000	21.60	L1	PASSED
2.625000	22.40	L1	PASSED
4.240000	23.90	L1	PASSED
7.065000	25.80	L1	PASSED

7. 6 dB bandwidth (FCC §15.247(a)(2), RSS-210 A8.2 (a))

EUT with DUT number	RM-505 DUT 41812
Accessories with DUT numbers	BP-4L DUT 41801 / AD-54 DUT 41807 / HS-45 DUT 41805 / AC-10E DUT 41799
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 45 / 102.7
Date of measurements	20-Feb-2009
Measured by	Petteri Suni

7.1. 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

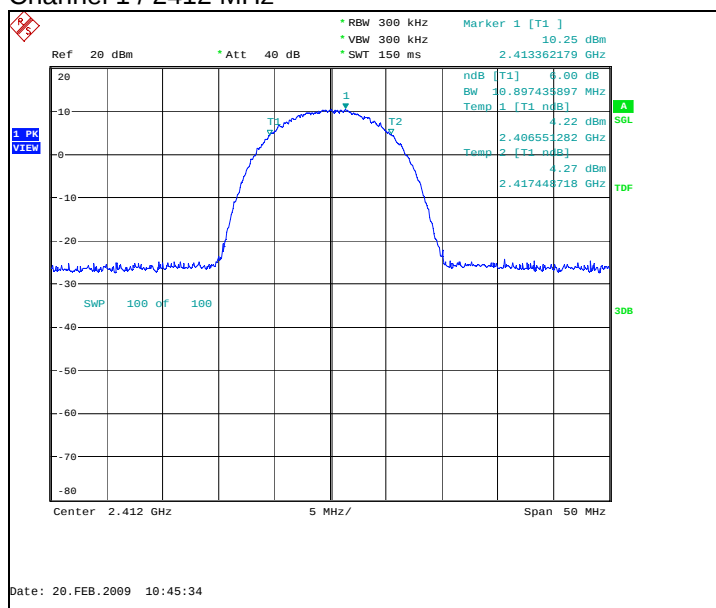
Limit [kHz]
≥ 500

7.2. WLAN test results

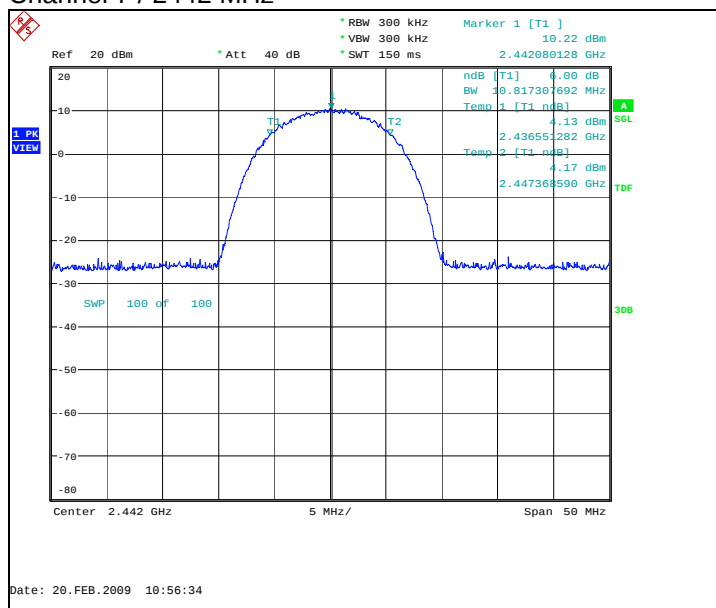
7.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel / f_c [MHz]	6 dB bandwidth [kHz]	Result
1	10897.436	PASSED
7	10817.308	PASSED
11	10817.308	PASSED

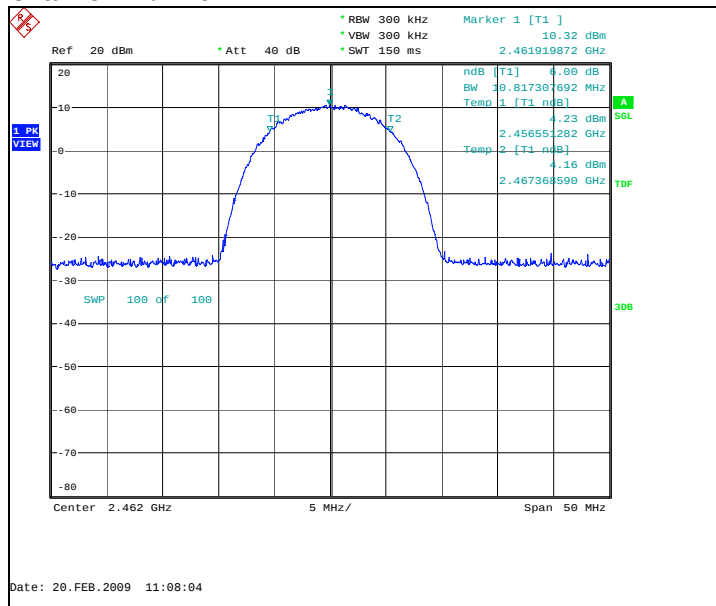
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



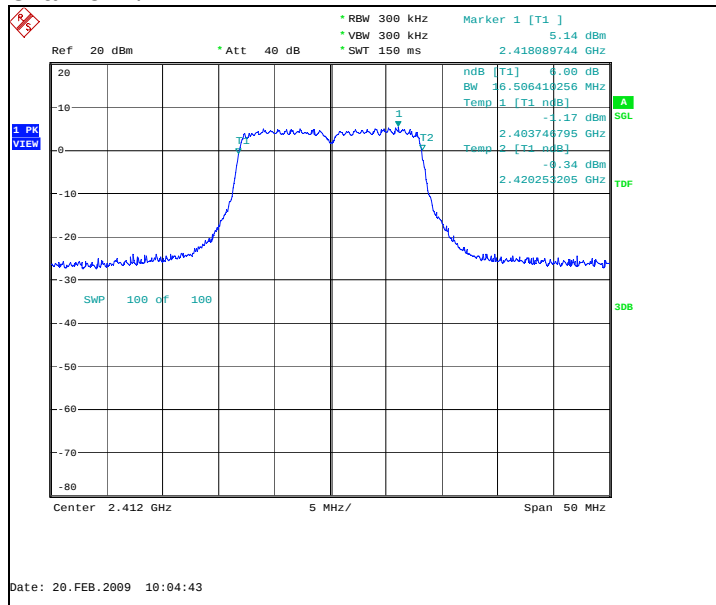
Channel 11 / 2462 MHz



7.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f _c [MHz]	6 dB bandwidth [kHz]	Result
1	16506.410	PASSED
7	16506.410	PASSED
11	16506.410	PASSED

Channel 1 / 2412 MHz



1 PK VIEW

Ref 20 dBm * Att 40 dB

20 dBm

-10

0

-10

-20

-30

-40

-50

-60

-70

-80

SWP 100 of 100

Center 2.442 GHz 5 MHz/ Span 50 MHz

Marker 1 [T1]

7.07 dBm

2.436791667 GHz

ndB [T1] 6.00 dB

BW 16.506410256 MHz

Temp 1 [T1 ndB] 2.19 dBm

2.433746795 GHz

Temp 2 [T1 ndB] 2.02 dBm

2.450253205 GHz

A SGL

TDF

30B

Date: 20.FEB.2009 10:16:18

1 PK VIEW

Ref 20 dBm * Att 40 dB

RBW 300 kHz VBW 300 kHz SWT 150 ms

Marker 1 [T1] 5.24 dBm 2.457192308 GHz

ndB [T1] 4.00 dB BW 16.506410256 MHz Temp 1 [T1 n8] -0.81 dBm 2.453746795 GHz

ndB [T2] 4.00 dB BW 16.506410256 MHz Temp 2 [T2 n8] -0.51 dBm 2.470253205 GHz

SWP 100 off 100

Center 2.462 GHz 5 MHz/ Span 50 MHz

Date: 20.FEB.2009 10:27:48

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

EUT with DUT number	RM-505 DUT 41812
Accessories with DUT numbers	BP-4L DUT 41801 / AD-54 DUT 41807 / HS-45 DUT 41805 / AC-10E DUT 41799
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 45 / 102.7
Date of measurements	20-Feb-2009
Measured by	Petteri Suni

8.1. 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

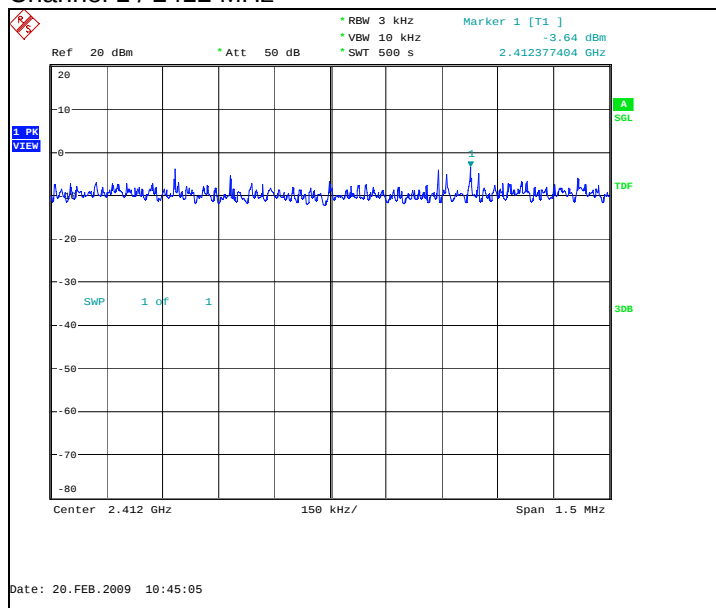
Limit [dBm] @ 3 kHz
≤ 8

8.2. WLAN test results

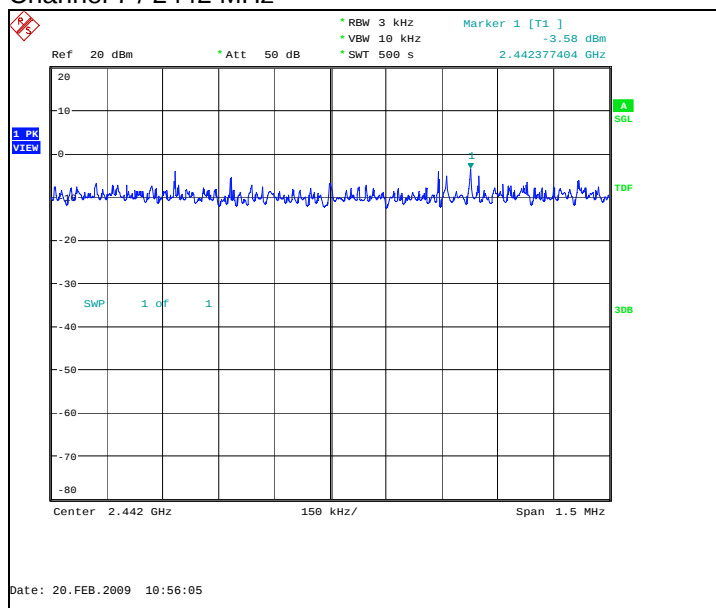
8.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel / f_c [MHz]	P [dBm]	Result
1 / 2412	-3.64	PASSED
7 / 2442	-3.58	PASSED
11 / 2462	-3.76	PASSED

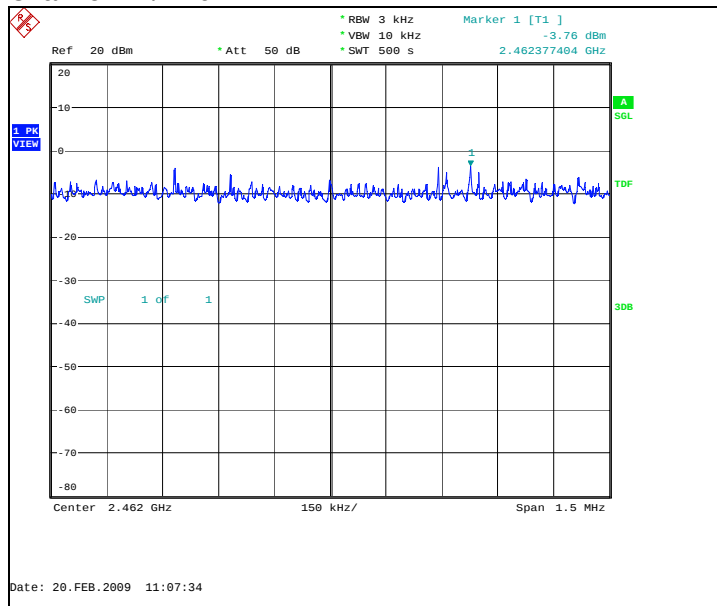
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



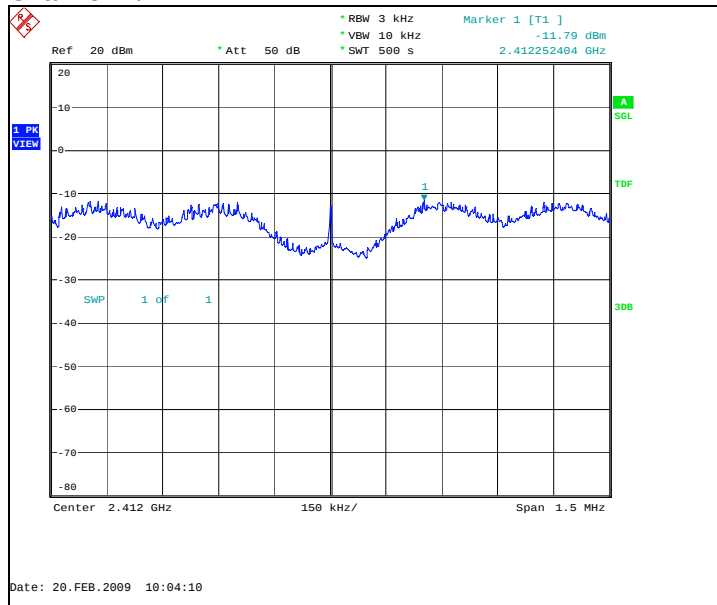
Channel 11 / 2462 MHz



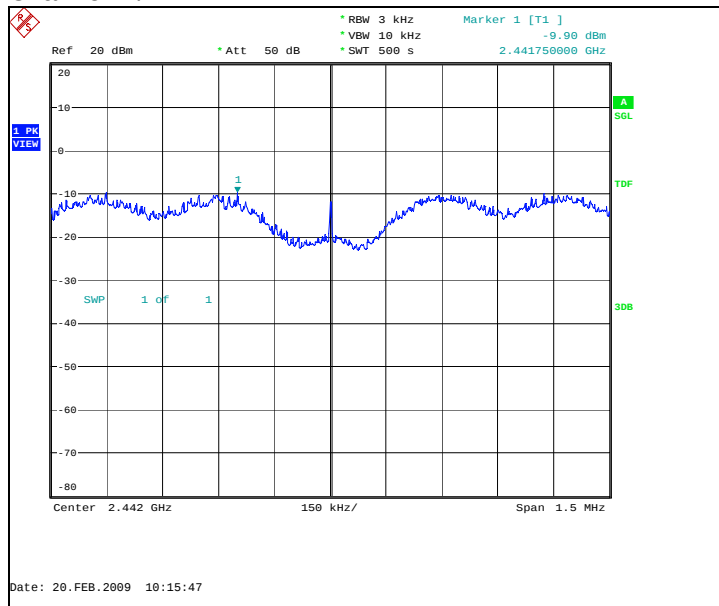
8.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f_c [MHz]	P [dBm]	Result
1 / 2412	-11.79	PASSED
7 / 2442	-9.90	PASSED
11 / 2462	-12.06	PASSED

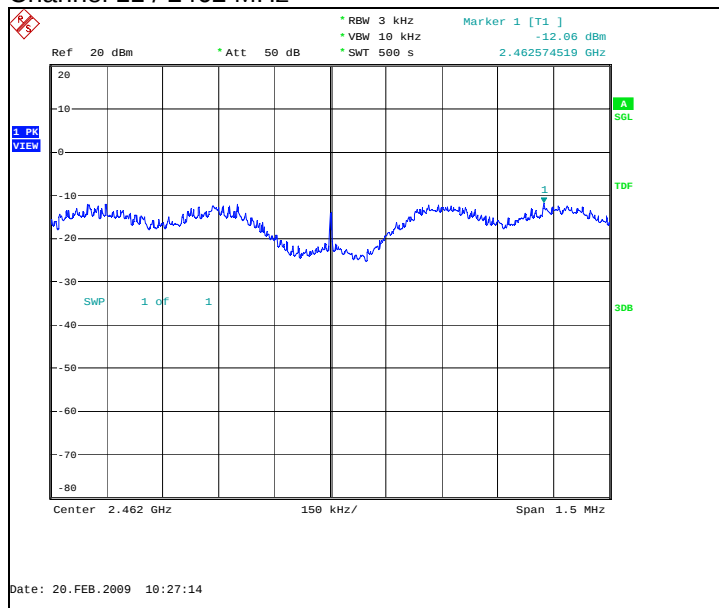
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



Channel 11 / 2462 MHz



9. Test Equipment

9.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM30597	Power splitter	11667A	Agilent	22/24/27, 15C
TM37499	Power splitter	11667A	Agilent	22/24/27, 15C
TM38111	Multimeter	34401A	Agilent	22/24/27, 15C
TM38112	DC power supply	6632A	Agilent	22/24/27, 15C
TM22901	Attenuator	8496A	Agilent	22/24/27, 15C
TM30636	Artificial mains net	L2-16	PMM	15C, 15B
TM37678	Radio communication tester	CMU-200	R&S	22/24/27, 15C, 15B
TM37773	Radio communication tester	CMU-200	R&S	22/24/27, 15C, 15B
TM30600	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
TM26490	LISN 50 μ H	ESH3-Z5	R&S	15C, 15B
TM37610	Spectrum analyzer	FSU	R&S	22/24/27, 15C
TM22835	Multimeter	87	Fluke	15C, 15B
TM37500	Microwave switch system	7116-MSW	Keithley	22/24/27, 15C, 15B
TM22638	Power supply	OL63743-901	Transformatic	22/24/27, 15C, 15B
	Temperature chamber	VT4002	Vötsch	22/24/27, 15C
2058	EMI Test receiver	ESPC	R&S	15C, 15B
2001	Bluetooth tester	CBT	R&S	22/24/27, 15C, 15B
2002	Radio communication tester	CMU-200	R&S	22/24/27, 15C, 15B

9.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM30599	3m semi-anechoic chamber		TDK	22/24/27, 15C, 15B
TM38845	EMI receiver	ESI 40	R&S	22/24/27, 15C, 15B
TM37498	Preamplifier	AMF-5D-020180-26-10P	MITEQ	22/24/27, 15C, 15B
TM37523	Preamplifier	AMF-4D-10M-3G-25-20P	MITEQ	22/24/27, 15C, 15B
TM37516	Biconilog antenna	HL562	R&S	22/24/27, 15C, 15B
TM26496	Double ridged waveguide antenna	3115	EMCO	22/24/27, 15C, 15B
TM39158	Horn antenna	3116	EMCO	22/24/27, 15C, 15B
TM26492	Reference dipole set	UHAP/VHAP	Schwarzbeck	22/24/27, 15C, 15B
TM37501	Dipole antenna	3125-870	EMCO	22/24/27
TM37502	Dipole antenna	3125-1880	EMCO	22/24/27
TM37773	Radio communication tester	CMU-200	R&S	22/24/27, 15C, 15B
TM38631	Signal generator	83640L	Agilent	22/24/27, 15C, 15B
TM38066	High pass filter	4HC3000/18000-3-KK	Trilithic	22/24/27, 15C, 15B
TM26511	Tunable notch filter	WRCA870	Wainwright	22/24/27
TM38215	Tunable notch filter	WRCD1850/1910-0.2/40	Wainwright	22/24/27
TM38214	Band reject filter	WRCT 2402/2480-2400/2483.5-30	Wainwright	15C
TM30642	Mast/Turntable controller	HD-100	Deisel	22/24/27, 15C, 15B
TM26500	Turntable	DS412	Deisel	22/24/27, 15C, 15B
TM38842	Antenna mast controller	2090	EMCO	22/24/27, 15C, 15B
TM38843	Antenna mast	2075	EMCO	22/24/27, 15C, 15B
TM38114	DC power supply	6632A	Agilent	22/24/27, 15C, 15B
TM38323	Preamplifier	PA-02 18-26 GHz	EMC Automation	22/24/27, 15C, 15B
TM37678	Radio communication tester	CMU-200	R&S	22/24/27, 15C, 15B
TM22638	Power supply	OL63743-901	Transformativ	22/24/27, 15C, 15B
TM23892	Yaesu controller	G-1000SDX	Yaesu	22/24/27, 15C, 15B
2001	Bluetooth tester	CBT	R&S	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
2002	Radio communication tester	CMU-200	R&S	22/24/27, 15C, 15B