

FCC Part 15C Compliance Test Report

Test Report no.:	Cph_FCC_0845_07.doc	Date of Report:	07-Nov-2008
Number of pages:	29	Customer's Contact person:	Kari Koskela
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FCC listing no.:	94436		
IC recognition no.:	3608		
Tested devices/ accessories:	Phone RM-412 / Battery BL-4U / AC-Charger AC-8E / Headset HS-43		
FCC ID:	PYARM-412	IC:	661V-RM412
Supplement reports:	This report is based on report: Tre_FCC_0836_18.		
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:			

Christian Andersen, Test System Manager

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	05-Sep-2008
Testing completed	17-Sep-2008
The customer's contact person	Kari Koskela
Test Plan referred to	T:\Projects\RM-412\TestPlan_RS
Notes	Test results in this report are based on measurements results from report Tre_FCC_0836_18.
Document name	T:\Projects\RM-412\EMC\Results\FCC\Cph_FCC_0845_07.doc

1.1. EUT and Accessory Information

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

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-413	004401100161484	0321	-	008.32.2	41646
Phone	RM-413	004401100161286	0321	-	008.32.2	41647
Battery	BL-4U	-	-	-	-	41642
Battery	BL-4U	-	-	-	-	41614
AC-Charger	AC-8E	-	-	-	-	41659
AC-Charger	AC-8E	-	-	-	-	41650
Headset	HS-43	-	-	-	-	41663
Headset	HS-43	-	-	-	-	41648

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 (1)	6 dB bandwidth	PASSED
15.247(e)	A8.2 (2)	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

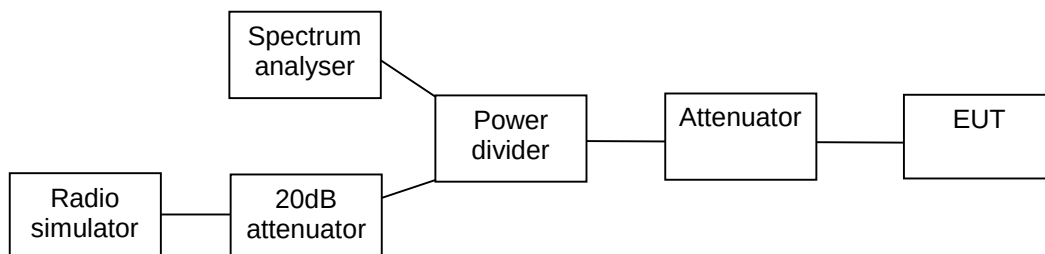
The test was not performed by the TCC Nokia Tampere Laboratory.

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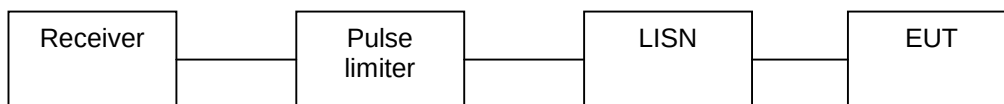
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2. Test setups

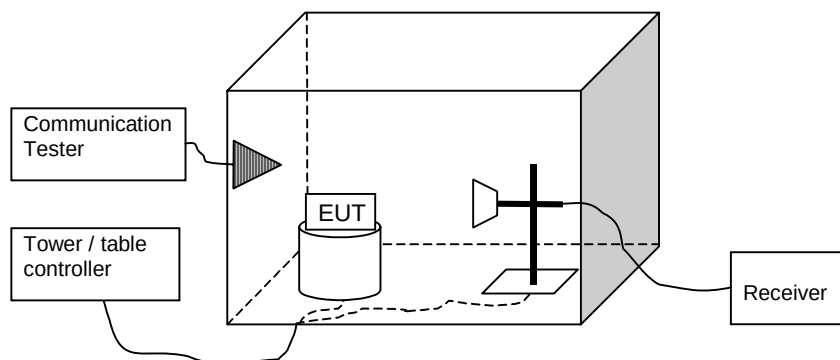
2.1. Conducted RF test setup



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-413 DUT 41646
Accessories with DUT numbers	AC-8E DUT 41645, BL-4U DUT 41642, HS-43 DUT 41643
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 50 / 101,7
Date of measurements	08-Sep-2008
Measured by	Timo Raiskio

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

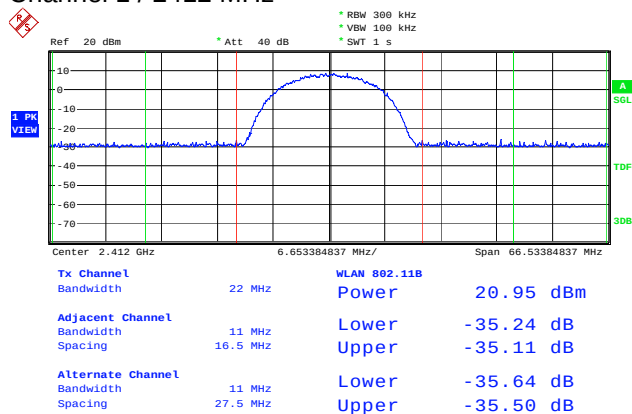
Frequency range [MHz]	Limit [W]	Limit [dBm]
2400 – 2483.5	≤ 1	≤ 30

3.2. WLAN Test results

3.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

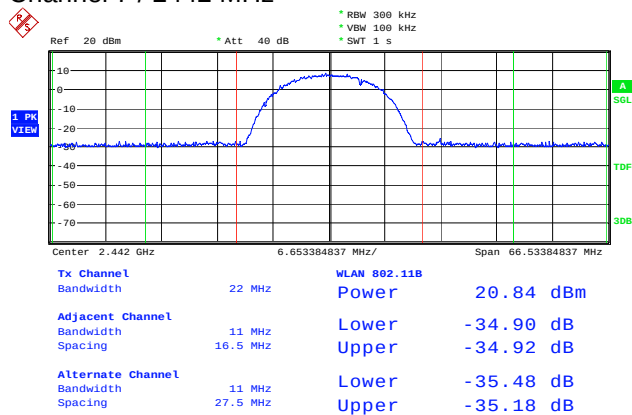
Channel / f_c [MHz]	P [dBm]	P [W]	Result
1 / 2412	20.95	0.124	PASSED
7 / 2442	20.84	0.121	PASSED
11 / 2462	21.34	0.136	PASSED

Channel 1 / 2412 MHz



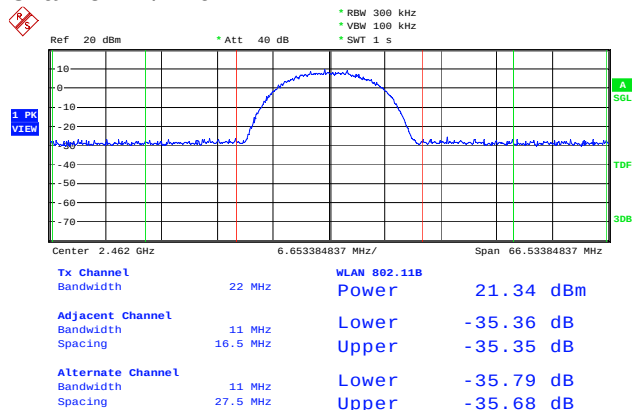
Date: 3.OCT.2008 10:45:11

Channel 7 / 2442 MHz



Date: 3.OCT.2008 10:44:31

Channel 11 / 2462 MHz

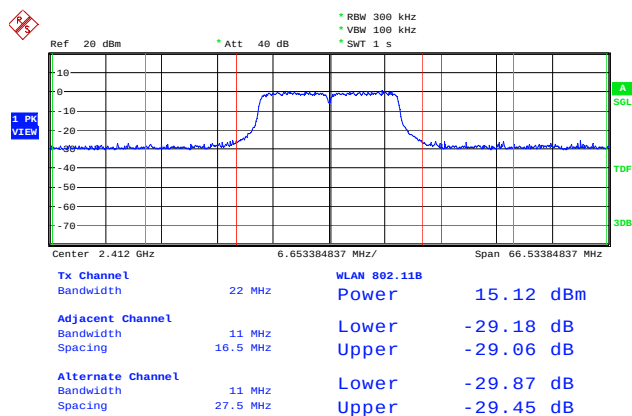


Date: 3.OCT.2008 10:43:47

3.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

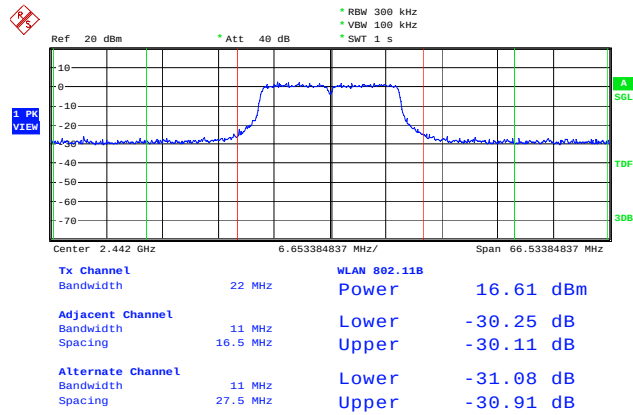
Channel / f_c [MHz]	P [dBm]	P [W]	Result
1 / 2412	15.12	0.033	PASSED
7 / 2442	16.61	0.046	PASSED
11 / 2462	15.83	0.038	PASSED

Channel 1 / 2412 MHz



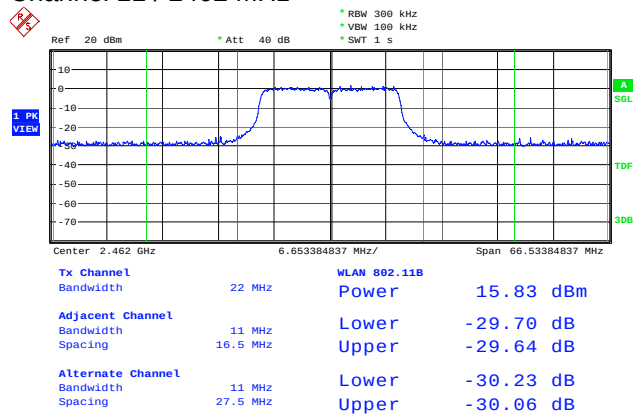
Date: 3.OCT.2008 10:33:18

Channel 7 / 2442 MHz



Date: 3.OCT.2008 10:34:11

Channel 11 / 2462 MHz



Date: 3.OCT.2008 10:34:57

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

EUT with DUT number	RM-413 DUT 41646
Accessories with DUT numbers	AC-8E DUT 41645, BL-4U DUT 41642, HS-43 DUT 41643
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 50 / 101,7
Date of measurements	08-Sep-2008
Measured by	Timo Raiskio

4.1. Test method and limit

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

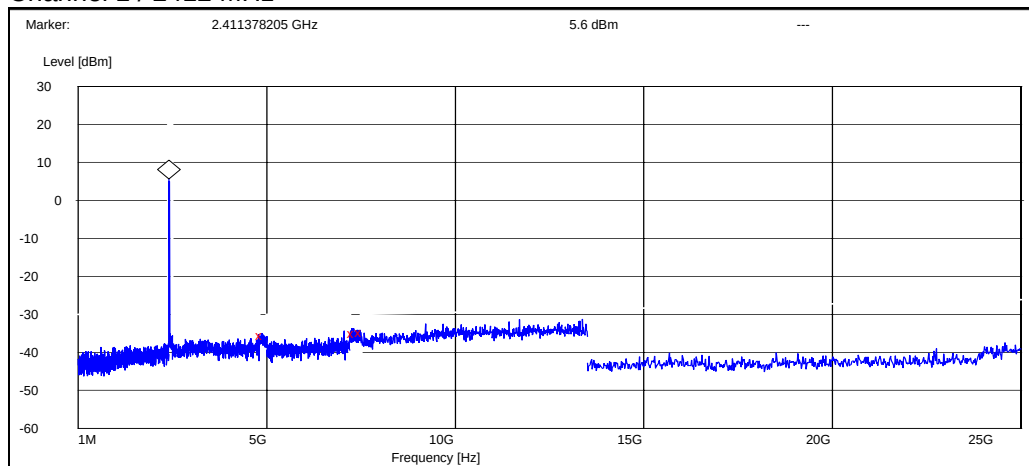
Limits for spurious RF conducted emissions measurements

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

4.2. WLAN Test results

4.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

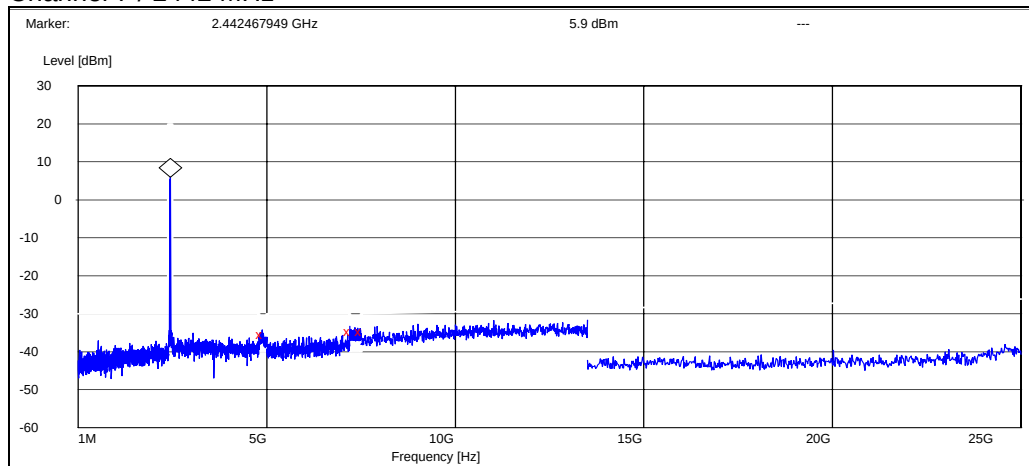
Channel 1 / 2412 MHz



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

Frequency [MHz]	P [dBc]	Result
4869.871795	-41.202094	PASSED
7293.750000	-40.702094	PASSED
7500.000000	-40.402094	PASSED

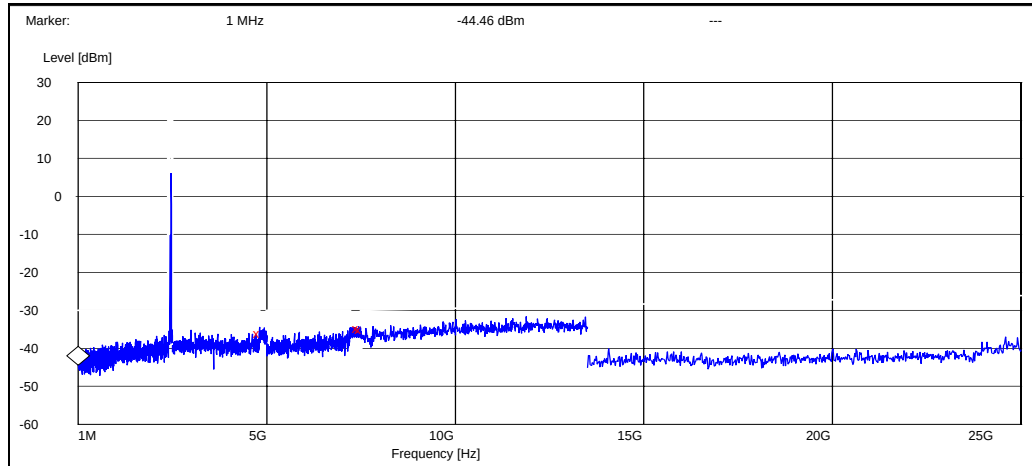
Channel 7 / 2442 MHz



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

Frequency [MHz]	P [dBc]	Result
4882.371795	-41.304250	PASSED
7206.250000	-40.604250	PASSED
7500.000000	-40.604250	PASSED

Channel 11 / 2462 MHz

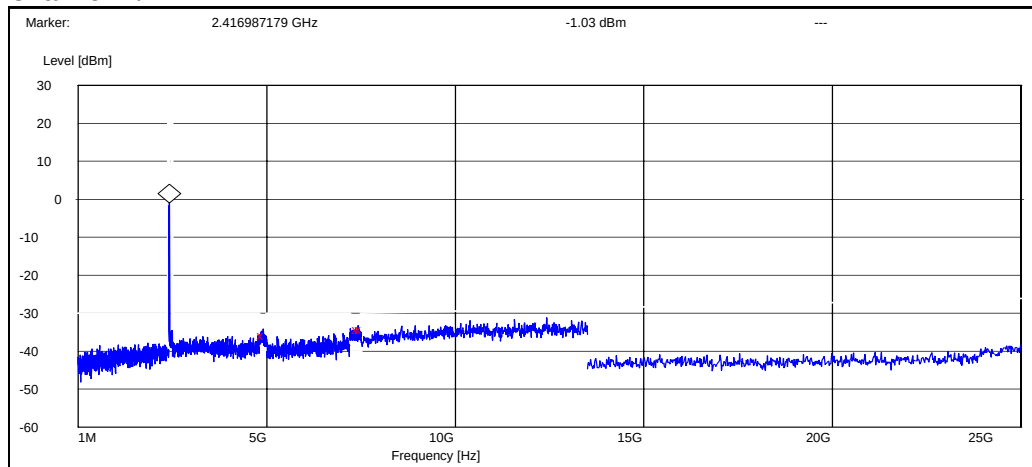


Peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	P [dBc]	Result
4807.692308	-38.45629	PASSED
7436.057692	-39.75629	PASSED
7500.000000	-39.45629	PASSED

4.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

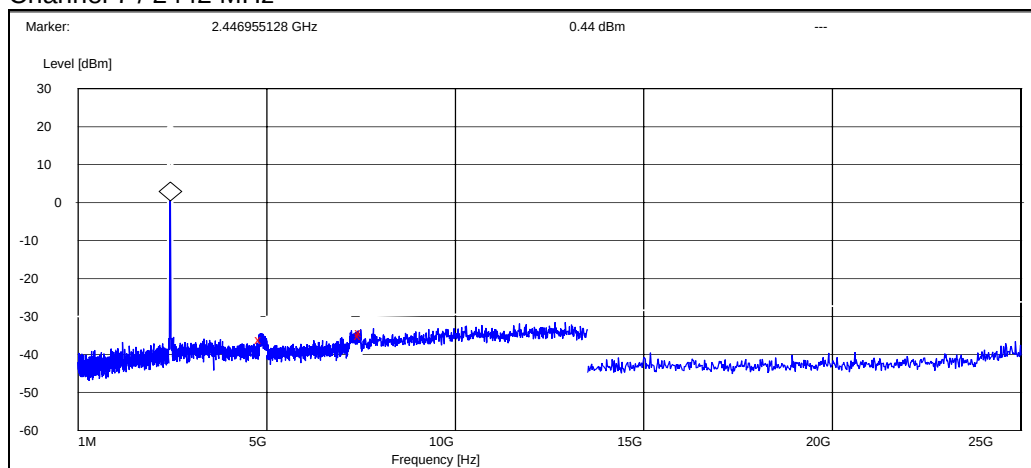
Channel 1 / 2412 MHz



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

Frequency [MHz]	P [dBc]	Result
4907.051282	-34.767024	PASSED
7418.269231	-33.267024	PASSED
7500.000000	-33.267024	PASSED

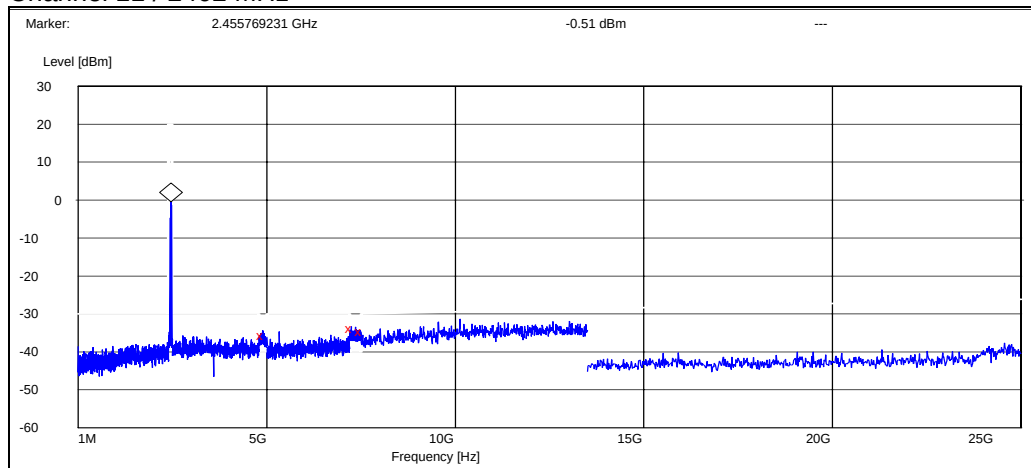
Channel 7 / 2442 MHz



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

Frequency [MHz]	P [dBc]	Result
4846.794872	-36.443210	PASSED
7489.423077	-35.443210	PASSED
7500.000000	-34.643210	PASSED

Channel 11 / 2462 MHz



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

Frequency [MHz]	P [dBc]	Result
4894.230769	-35.189224	PASSED
7240.384615	-33.289224	PASSED
7500.000000	-34.189224	PASSED

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

EUT with DUT number	RM-413 DUT 41647
Accessories with DUT numbers	AC-8E DUT 41659 / BL-4U DUT 41614 / HS-43 DUT 41663
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	24 / 47 / 103.0
Date of measurements	17-Sep-2008
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:

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

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	58.00	794.33	60.00	-2.0	HORIZONTAL	PASSED
7236.000000	48.60	269.15	46.00	2.6	VERTICAL	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	45.00	177.83	47.00	-2.0	HORIZONTAL	PASSED
7236.000000	36.20	64.57	33.60	2.6	VERTICAL	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
37.895391	24.10	16.03	38.20	-14.1	VERTICAL	PASSED
75.169940	14.80	5.50	38.40	-23.6	HORIZONTAL	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
4884.269539	49.20	288.40	51.60	-2.4	HORIZONTAL	PASSED
7317.637275	50.80	346.74	47.90	2.9	HORIZONTAL	PASSED
7333.667335	50.70	342.77	47.80	2.9	HORIZONTAL	PASSED
12195.892786	61.20	1 148.15	51.60	9.6	VERTICAL	PASSED
12211.420842	60.80	1 096.48	51.10	9.7	VERTICAL	PASSED
17998.991984	53.30	462.38	33.80	19.5	VERTICAL	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	37.90	78.52	40.30	-2.4	HORIZONTAL	PASSED
7317.637275	40.20	102.33	37.30	2.9	HORIZONTAL	PASSED
7334.167335	40.50	105.93	37.60	2.9	HORIZONTAL	PASSED
12196.392786	48.10	254.10	38.50	9.6	VERTICAL	PASSED
12210.420842	50.50	334.97	40.80	9.7	VERTICAL	PASSED
17991.991984	40.60	107.15	21.10	19.5	VERTICAL	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	48.00	251.19	50.30	-2.3	VERTICAL	PASSED
7386.000000	52.00	398.11	48.60	3.4	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	34.80	54.95	37.10	-2.3	VERTICAL	PASSED
7386.000000	40.40	104.71	37.00	3.4	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	53.40	467.74	55.40	-2.0	HORIZONTAL	PASSED
7236.000000	46.80	218.78	44.20	2.6	VERTICAL	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	40.00	100.00	42.00	-2.0	HORIZONTAL	PASSED
7236.000000	41.70	121.62	39.10	2.6	VERTICAL	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
37.695391	20.80	10.96	34.70	-13.9	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
4885.767535	58.80	870.96	61.20	-2.4	HORIZONTAL	PASSED
7278.551102	43.50	149.62	40.70	2.8	HORIZONTAL	PASSED
7284.569138	43.70	153.11	40.90	2.8	VERTICAL	PASSED
7406.815631	43.80	154.88	40.10	3.7	HORIZONTAL	PASSED
7427.847695	43.70	153.11	40.00	3.7	VERTICAL	PASSED
17995.497996	54.10	506.99	34.60	19.5	VERTICAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4883.267535	43.40	147.91	45.80	-2.4	HORIZONTAL	PASSED
7276.051102	30.00	31.62	27.20	2.8	HORIZONTAL	PASSED
7287.569138	30.00	31.62	27.20	2.8	VERTICAL	PASSED
7411.815631	30.50	33.50	26.80	3.7	HORIZONTAL	PASSED
7423.347695	30.70	34.28	27.00	3.7	VERTICAL	PASSED
17996.997996	40.60	107.15	21.10	19.5	VERTICAL	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	44.60	169.82	46.90	-2.3	HORIZONTAL	PASSED
7386.000000	61.00	1 122.02	57.60	3.4	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	31.70	38.46	34.00	-2.3	HORIZONTAL	PASSED
7386.000000	47.50	237.14	44.10	3.4	HORIZONTAL	PASSED

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

EUT with DUT number	RM-413 DUT 41647
Accessories with DUT numbers	AC-8E DUT 41659 / BL-4U DUT 41614 / HS-43 DUT 41663
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 40 / 103.0
Date of measurements	17-Sep-2008
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.

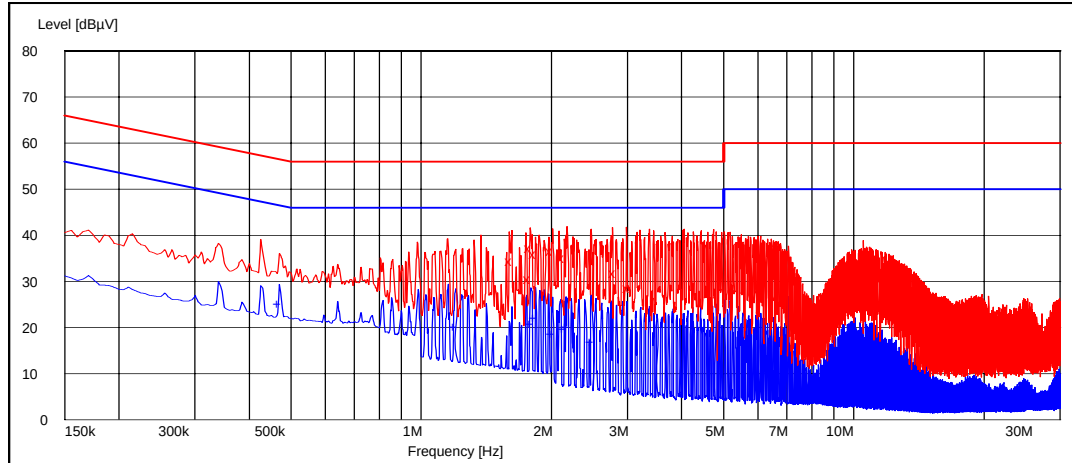
CISPR 22 Class B limits

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)

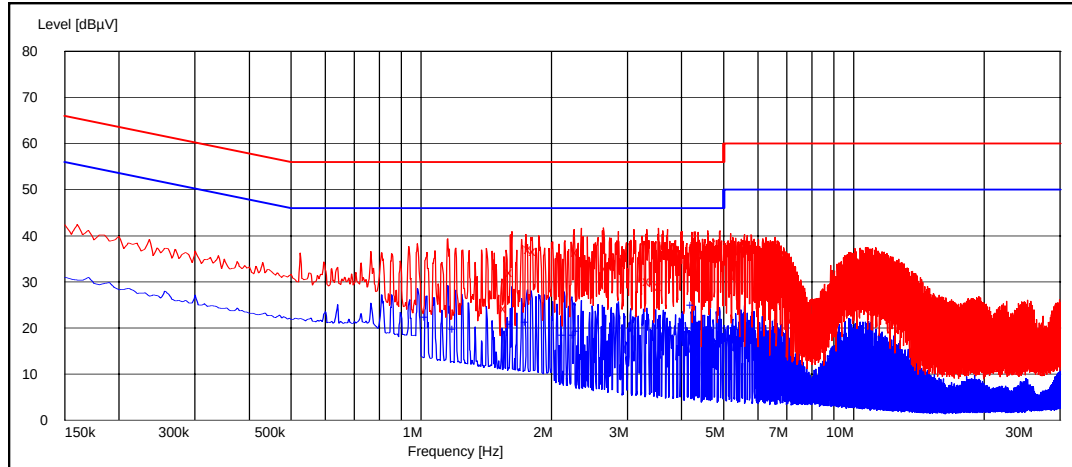
Frequency [MHz]	U [dBμV]	Line	Result
1.615000	34.50	L1	PASSED
1.780000	30.60	L1	PASSED
1.790000	37.20	L1	PASSED
1.835000	36.00	L1	PASSED
2.005000	36.70	L1	PASSED
2.135000	35.00	L1	PASSED
2.805000	31.80	L1	PASSED
3.025000	28.50	N	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.470000	25.00	L1	PASSED
1.200000	20.10	N	PASSED
1.800000	20.70	L1	PASSED
1.835000	22.00	L1	PASSED
2.015000	18.70	N	PASSED
2.140000	19.80	L1	PASSED
2.180000	20.10	L1	PASSED
2.485000	16.80	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
1.570000	24.40	N	PASSED
1.620000	32.10	N	PASSED
1.790000	37.10	L1	PASSED
1.835000	36.60	L1	PASSED
2.300000	36.40	L1	PASSED
2.680000	33.00	L1	PASSED
3.370000	30.10	N	PASSED
3.585000	29.10	N	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.030000	22.40	L1	PASSED
1.195000	19.80	L1	PASSED
1.620000	20.90	L1	PASSED
1.760000	21.40	L1	PASSED
2.145000	18.40	N	PASSED
2.270000	18.50	N	PASSED
2.305000	19.30	L1	PASSED
4.240000	24.90	L1	PASSED

7. 6 dB bandwidth (FCC §15.247(a)(2), RSS-210 A8.2 (1))

EUT with DUT number	RM-413 DUT 41646
Accessories with DUT numbers	AC-8E DUT 41645, BL-4U DUT 41642, HS-43 DUT 41643
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 50 / 101,7
Date of measurements	08-Sep-2008
Measured by	Timo Raiskio

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

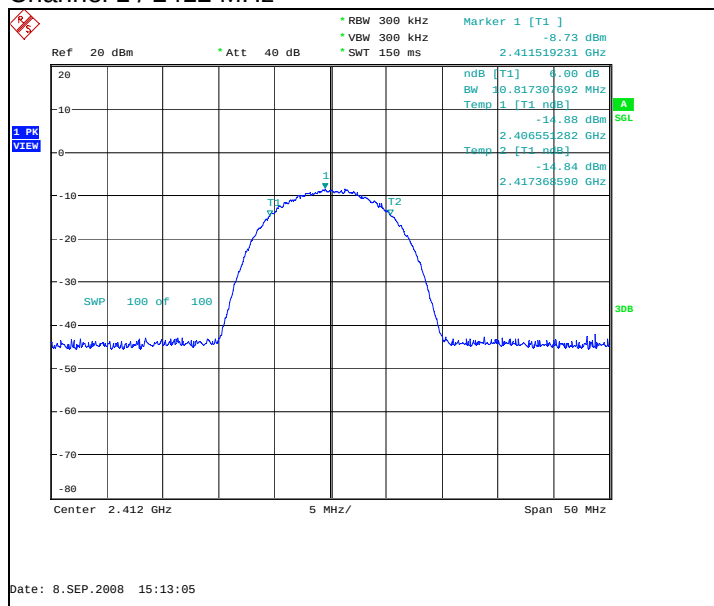
Limit [kHz]
≥ 500

7.2. WLAN test results

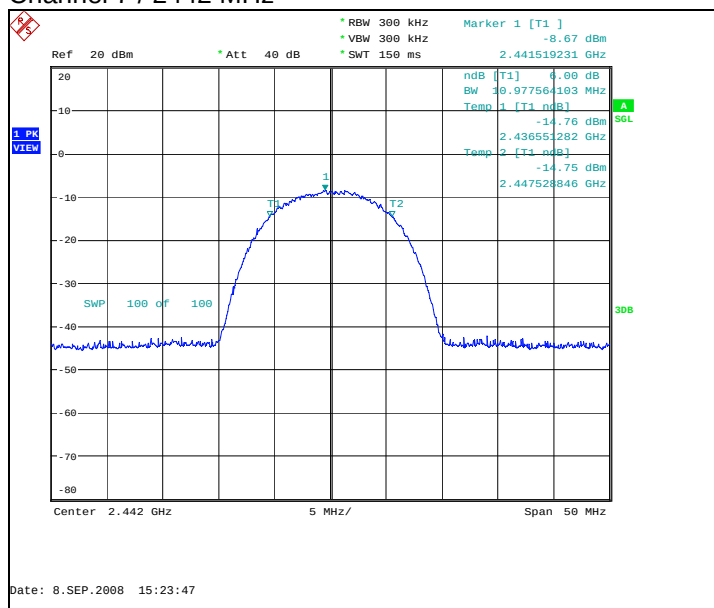
7.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel / f_c [MHz]	6 dB bandwidth [kHz]	Result
1	10817.308	PASSED
7	10977.564	PASSED
11	10817.308	PASSED

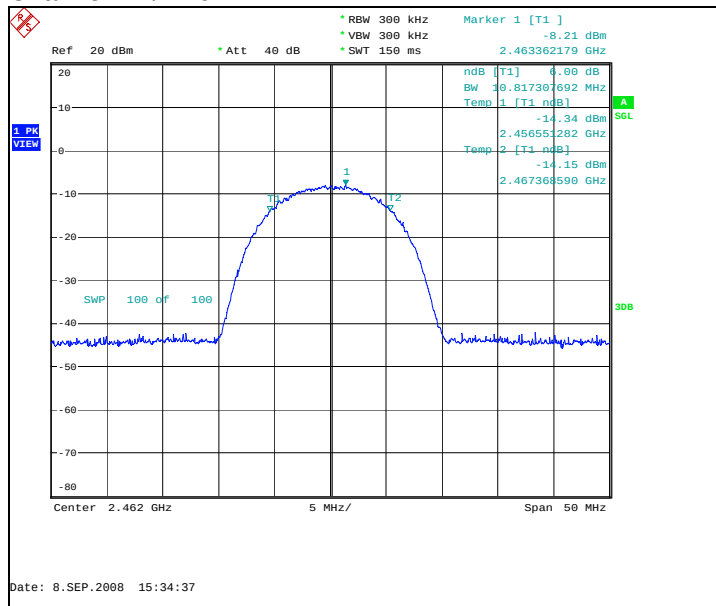
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



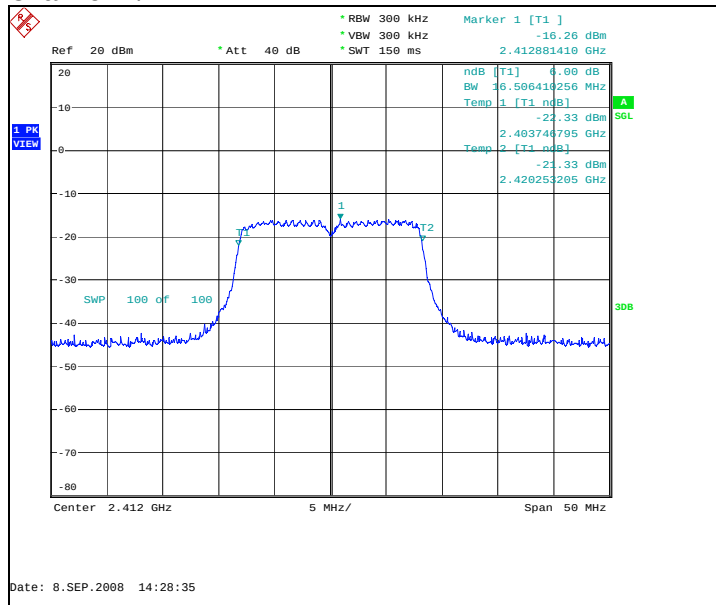
Channel 11 / 2462 MHz



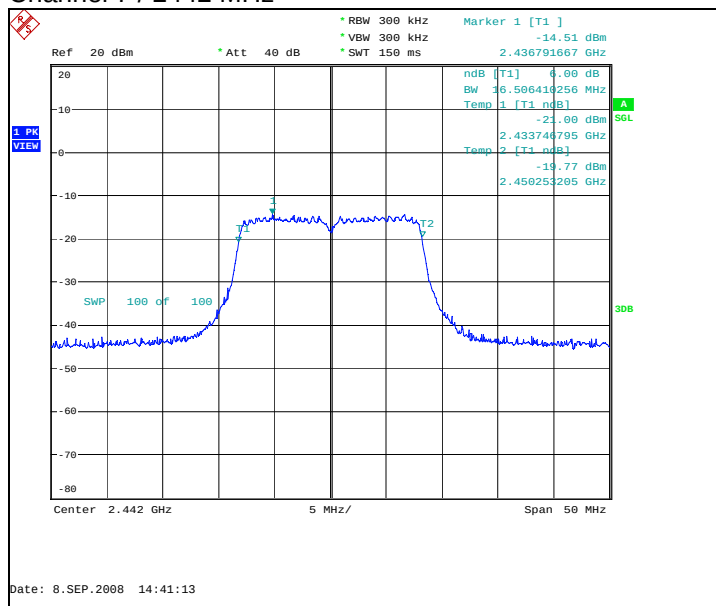
7.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

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

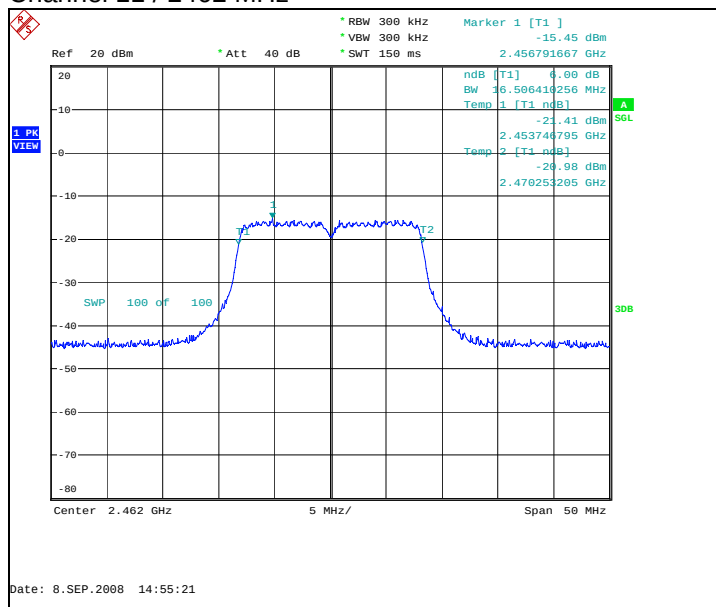
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



Channel 11 / 2462 MHz



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

EUT with DUT number	RM-413 DUT 41646
Accessories with DUT numbers	AC-8E DUT 41645, BL-4U DUT 41642, HS-43 DUT 41643
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 50 / 101,7
Date of measurements	08-Sep-2008
Measured by	Timo Raiskio

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

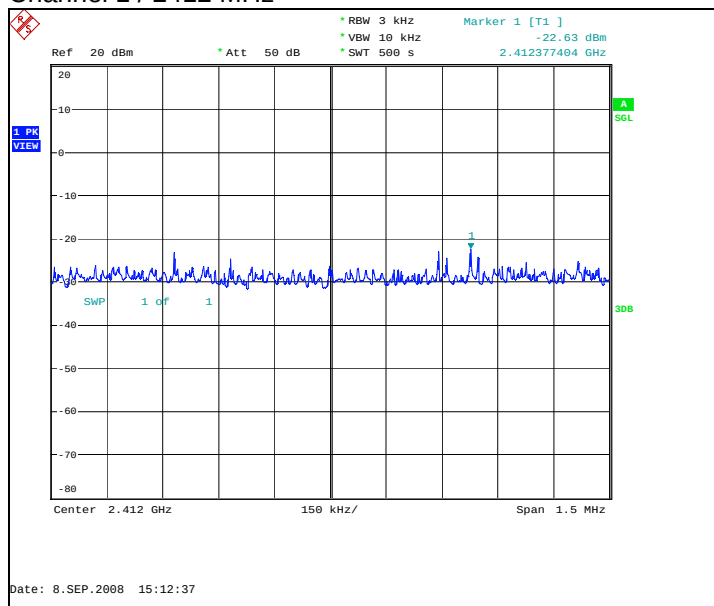
Limit [dBm] @ 3 kHz
≤ 8

8.2. WLAN test results

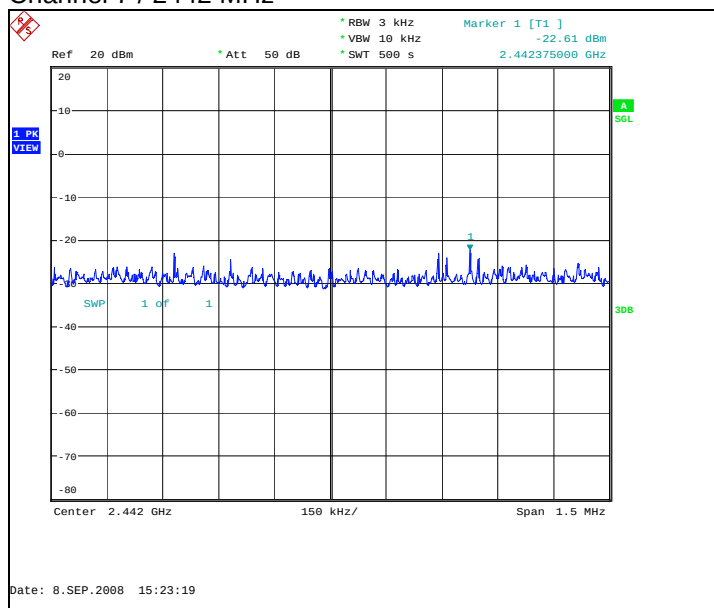
8.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel / f_c [MHz]	P [dBm]	Result
1 / 2412	-22.63	PASSED
7 / 2442	-22.61	PASSED
11 / 2462	-22.35	PASSED

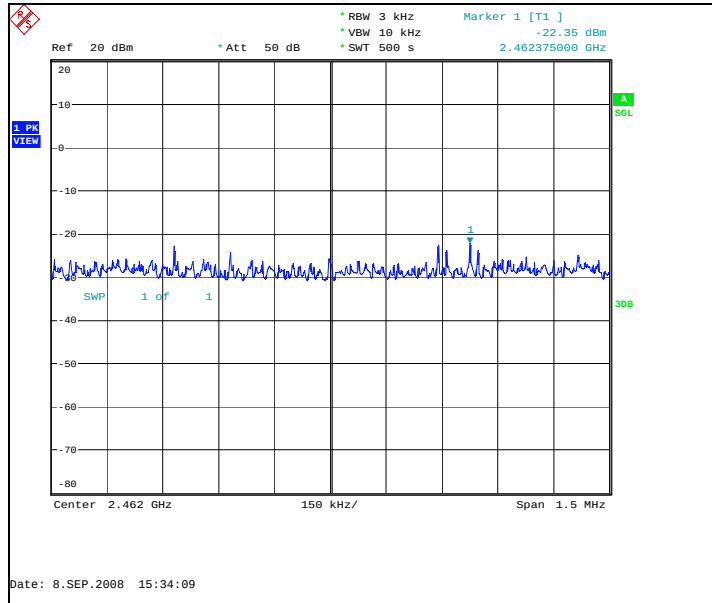
Channel 1 / 2412 MHz



Channel 7 / 2442 MHz



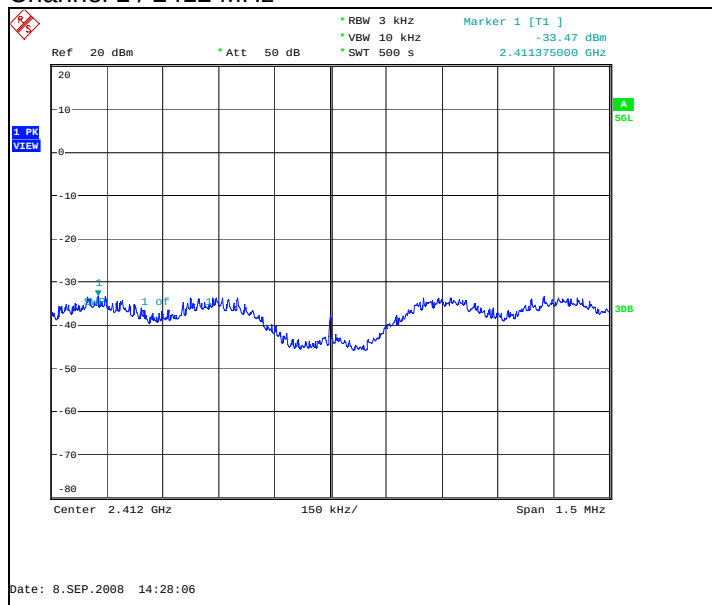
Channel 11 / 2462 MHz



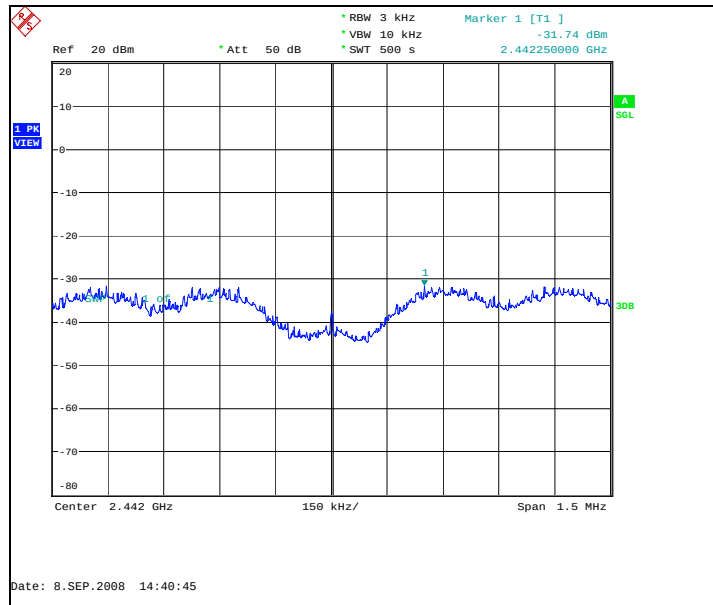
8.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f_c [MHz]	P [dBm]	Result
1 / 2412	-33.47	PASSED
7 / 2442	-31.74	PASSED
11 / 2462	-32.65	PASSED

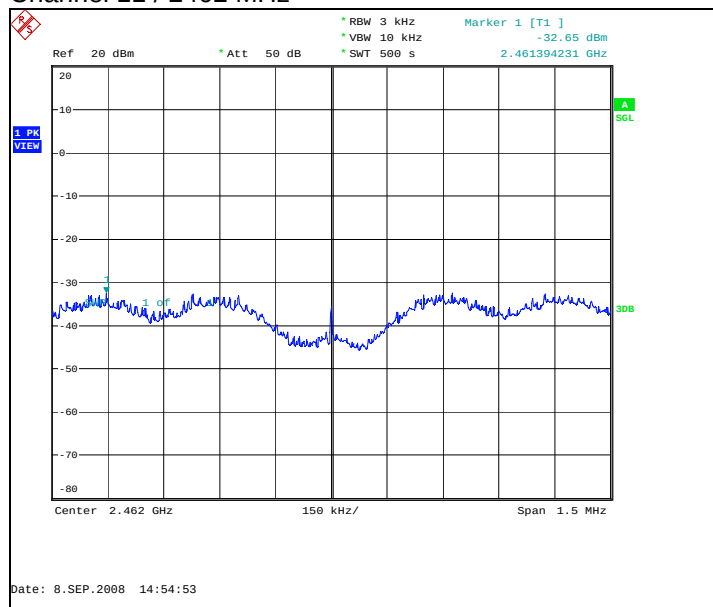
Channel 1 / 2412 MHz



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	Transmatic	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	Transmatic	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