

FCC Part 15B Compliance Test Report

Test Report no.:	Cph_FCC_0801_04.doc	Date of Report:	21-01-2008
Number of pages:	20	Customer's Contact person:	Ole Soerensen
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FCC listing no.:	99059		
IC recognition no.:	661AD-1		
Tested devices/ accessories:	Phone: RM-359 (hw0119), Battery: BP-5M, Audio adapter: AD-56, Headset: HS-45, AC charger: AC-3E, Data cable: CA-101, Laptop: IBM ThinkPad T22, AC adapter: 02K6543, Printer: HP DeskJet 1600CC3540A, Digital camera: FUJI DS-7, Serial cable for camera, Parallel cable for printer		
FCC ID:	QTKRM-359	IC:	661AD-RM359
Supplement reports:	This report is based on report: Tre_FCC_0736_01		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart B, ANSI C63.4 (2003), ICES-003, CISPR 22 and IC standards RSS-132 (Issue 2, September 2005), RSS-133 (Issue 3, June 2005) 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:			

Jan Engelbrechtsen, Engineer

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	17-12-2007
Testing completed	03-01-2008
The customer's contact person	Ole Soerensen
Test Plan referred to	T:\Projects\RM-359\TestPlan_RS\RS_Test_Plan_RM-359.xls
Notes	Test results in this report is based on measurements results from report Tre_FCC_0736_01.doc
Document name	T:\Projects\RM-359\EMC\Results\FCC\Cph_FCC_0801_04.doc

1.1. EUT and Accessory Information

The EUT is a 6-band (GSM850/900/1800/1900 and WCDMA Band I/V(850)) mobile phone with GPRS, EGPRS and Bluetooth. GSM and WCDMA bands are tested in idle mode. Bluetooth is tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
GSM phone	RM-242	004401015292382	0210	-	Vp tk3.10	41223
Battery	BP-5M	-	-	-	-	41228
Charger	AC-3E	-	-	-	-	40843
Audio adapter	AD-56	1272	0.5	1.0	-	41230
Headset	HS-45	-	-	-	-	41232
Data cable	CA-101	-	1.2	1.1	-	41152
Laptop	IBM Thinkpad T22	555V2PT	-	-	-	40201
AC Adapter	02K6543	-	-	-	-	40202
Printer	HP DeskJet 1600CC3540A	USB8302546	-	-	-	40077
Digital camera	FUJI DS-7	7102516	-	-	-	40076
Serial cable for camera	-	-	-	-	-	40088
Parallel cable for printer	-	-	-	-	-	40087

1.2. Summary of Test Results

GSM 850:

Section in CFR 47	Section in ICES-003 (RSS-132)	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	PASSED
15.109, a	5.5 (6.6)	Radiated emissions	PASSED

GSM 1900:

Section in CFR 47	Section in ICES-003 (RSS-133)	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	PASSED
15.109, a	5.5 (9)	Radiated emissions	PASSED

Bluetooth:

Section in CFR 47	Section in ICES-003	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	PASSED
15.109, a	5.5	Radiated emissions	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 Tampere Laboratory.

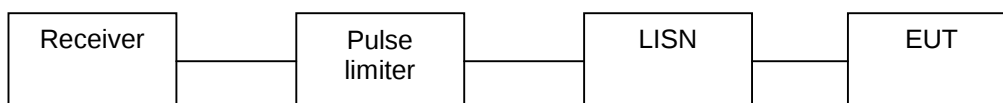
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2. AC power line conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-242 DUT 41223
Accessories with DUT numbers	AC-3E DUT 40843, BP-5M DUT 41228, AD-56 DUT 41230/ HS-45 DUT 41232, CA-101 DUT 41152, IBM ThinkPad T22 DUT 40201, 02K6543 DUT 40202, HP DeskJet 1600CC3540A DUT 40077, FUJI DS-7 DUT 40076, Serial cable for camera DUT 40088, Parallel cable for printer DUT 40087
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	Continuous data transfer was active between the phone and the computer during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	19 / 52 / 99.2
Date of measurements	3.9.2007
Measured by	Jari Jantunen

2.1. Test setup



2.2. Test method and limit

The measurement is made according to ANSI C63.4-2003 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:

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

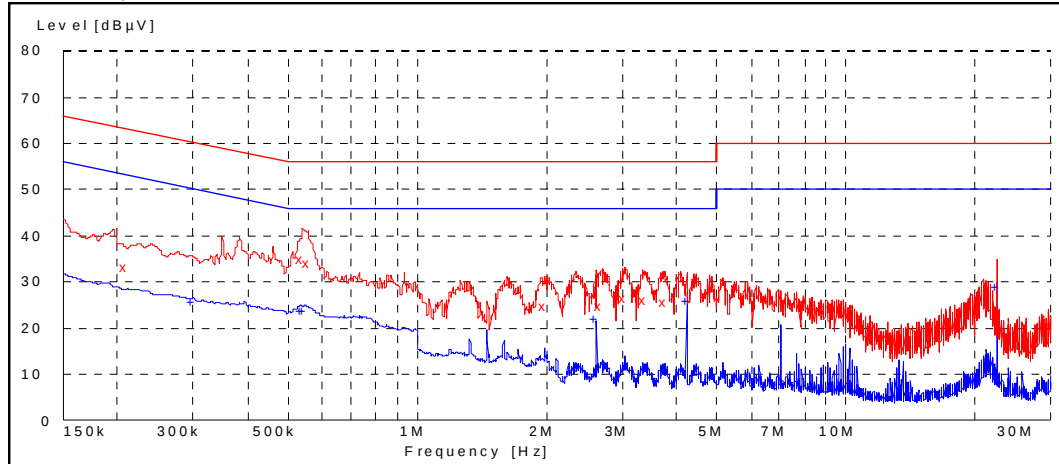
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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

2.3. GSM 850 Test results

RX mode, channel 190 / 881.6 MHz



Quasi peak (RBW: 9 kHz)

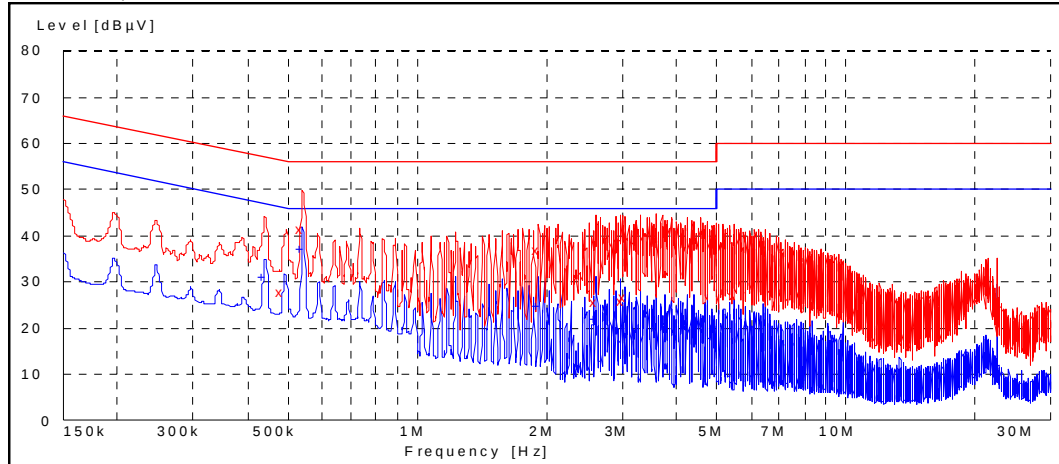
Frequency [MHz]	U [dBμV]	Line	Result
0.210000	33.10	N	PASSED
0.540000	34.80	L1	PASSED
0.555000	34.00	L1	PASSED
1.990000	24.80	L1	PASSED
2.670000	24.80	N	PASSED
3.040000	26.40	L1	PASSED
3.395000	26.00	L1	PASSED
3.760000	25.60	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.300000	25.50	N	PASSED
0.540000	23.50	L1	PASSED
0.545000	23.50	L1	PASSED
2.625000	22.00	L1	PASSED
4.240000	25.90	L1	PASSED
22.500000	29.00	L1	PASSED

2.4. GSM 1900 Test results

RX mode, channel 661 / 1960.0 MHz



Quasi peak (RBW: 9 kHz)

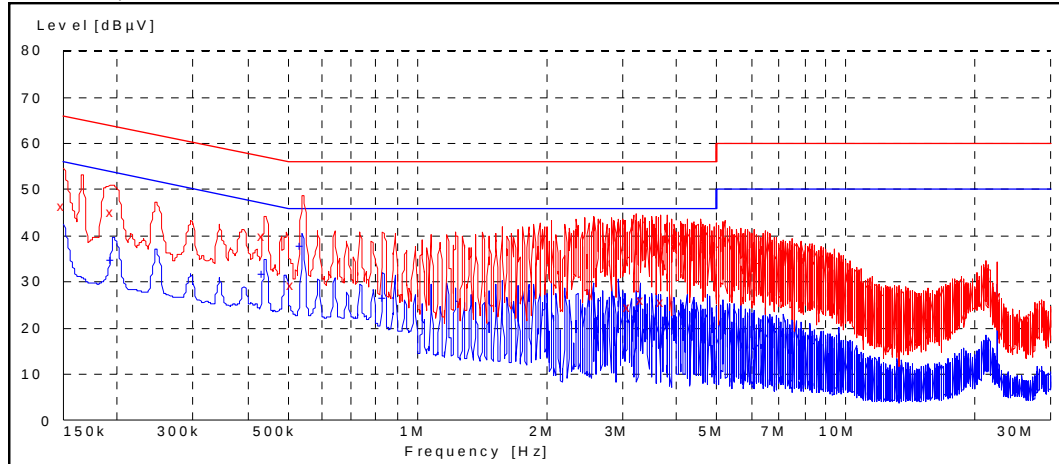
Frequency [MHz]	U [dBμV]	Line	Result
0.480000	27.80	L1	PASSED
0.535000	41.50	N	PASSED
1.925000	36.90	N	PASSED
2.625000	25.50	N	PASSED
3.005000	25.80	L1	PASSED
3.045000	26.60	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.440000	31.00	L1	PASSED
0.540000	37.30	N	PASSED
1.925000	24.70	N	PASSED
2.625000	21.80	L1	PASSED

2.5. Bluetooth Test results

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.150000	46.60	L1	PASSED
0.195000	45.20	L1	PASSED
0.440000	40.10	N	PASSED
0.515000	29.20	L1	PASSED
3.130000	24.40	L1	PASSED
3.380000	26.10	L1	PASSED
3.740000	25.60	L1	PASSED

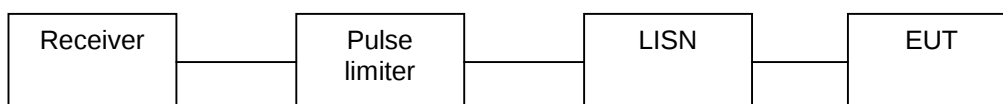
Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.195000	34.60	N	PASSED
0.440000	31.70	L1	PASSED
0.540000	37.60	L1	PASSED
0.835000	26.50	L1	PASSED

3. AC power line conducted emissions, FM radio on (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-242 DUT 41223
Accessories with DUT numbers	AC-3E DUT 40843, BP-5M DUT 41228, AD-56 DUT 41230/ HS-45 DUT 41232
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	FM radio on
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	19 / 52 / 99.2
Date of measurements	3.9.2007
Measured by	Jari Jantunen

3.1. Test setup



3.2. Test method and limit

The measurement is made according to ANSI C63.4-2003 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:

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

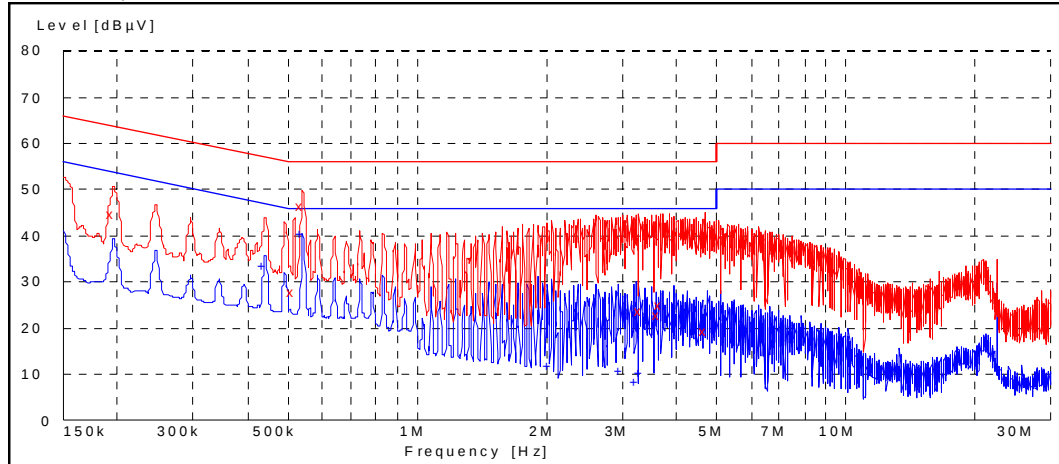
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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

3.3. GSM 850 + FM radio on Test results

RX mode, channel 190 / 881.6 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.195000	44.80	L1	PASSED
0.515000	27.70	L1	PASSED
0.540000	46.60	N	PASSED
3.310000	23.60	L1	PASSED
3.660000	22.80	L1	PASSED
3.715000	25.10	L1	PASSED
4.670000	19.30	L1	PASSED

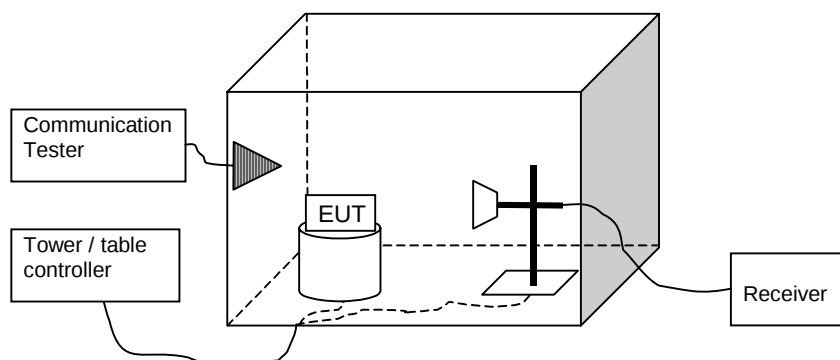
Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.440000	33.40	N	PASSED
0.540000	40.40	N	PASSED
2.025000	11.60	L1	PASSED
2.990000	10.70	L1	PASSED
3.230000	8.40	L1	PASSED
3.330000	10.30	L1	PASSED

4. Radiated emissions (FCC §15.109, ICES-003 section 5.5, RSS-132 6.6, RSS-133 9)

EUT with DUT number	RM-242 DUT 41223
Accessories with DUT numbers	AC-3E DUT 40843, BP-5M DUT 41228, AD-56 DUT 41230/ HS-45 DUT 41232, CA-101 DUT 41152, IBM ThinkPad T22 DUT 40201, 02K6543 DUT 40202, HP DeskJet 1600CC3540A DUT 40077, FUJI DS-7 DUT 40076, Serial cable for camera DUT 40088, Parallel cable for printer DUT 40087
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	Continuous data transfer was active between the phone and the computer during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21-22 / 51-53 / 99.2-99.8
Date of measurements	3-4.9.2007
Measured by	Jari Jantunen

4.1. Test setup



4.2. Test method and limit

The measurement is made according to ANSI C63.4-2003as follows:

The measurement is performed in the Semi-Anechoic Chamber with conducting metal floor.

The measurement distance is 3 m.

The EUT is placed on a nonconductive plate at 80 cm height.

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 ($A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$).

CISPR 22 and FCC Part 15 Class B limits (3 m measurement distance)

Frequency range [MHz]	Quasi peak limit [dBμV/m]	Average limit [dBμV/m]	Peak limit [dBμV/m]
30 – 230	40	-	-
230 – 1000	47	-	-
Above 1000	-	54	74

4.3. GSM 850 Test results

RX mode, channel 128 / 869.2 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	38.70	86.10	44.00	-5.3	HORIZONTAL	PASSED
6953.600000	44.20	162.18	42.70	1.5	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	25.80	19.50	31.10	-5.3	HORIZONTAL	PASSED
6953.600000	30.70	34.28	29.20	1.5	HORIZONTAL	PASSED

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
348.396994	26.50	21.13	57.80	-31.3	HORIZONTAL	PASSED
448.297395	28.20	25.70	57.40	-29.2	VERTICAL	PASSED
616.932465	32.90	44.16	58.80	-25.9	VERTICAL	PASSED
646.692585	31.00	35.48	56.20	-25.2	VERTICAL	PASSED
896.293587	35.40	58.88	57.40	-22.0	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
1232.966934	34.90	55.59	54.00	-19.1	VERTICAL	PASSED
1260.019038	36.80	69.18	55.50	-18.7	VERTICAL	PASSED
1297.599198	24.60	16.98	42.50	-17.9	VERTICAL	PASSED
1492.487976	33.00	44.67	49.70	-16.7	VERTICAL	PASSED
1666.832665	29.40	29.51	44.50	-15.1	HORIZONTAL	PASSED
1992.483968	38.20	81.28	50.10	-11.9	VERTICAL	PASSED

RX mode, channel 251 / 893.8 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3575.200000	39.00	89.13	43.90	-4.9	HORIZONTAL	PASSED
7150.400000	42.00	125.89	39.80	2.2	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3575.200000	25.90	19.72	30.80	-4.9	HORIZONTAL	PASSED
7150.400000	28.80	27.54	26.60	2.2	HORIZONTAL	PASSED

4.4. GSM 1900 Test results

RX mode, channel 512 / 1930.2 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3860.000000	40.10	101.16	42.90	-2.8	HORIZONTAL	PASSED
7720.000000	43.40	147.91	39.90	3.5	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3860.000000	27.30	23.17	30.10	-2.8	HORIZONTAL	PASSED
7720.000000	30.00	31.62	26.50	3.5	HORIZONTAL	PASSED

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
617.834469	31.80	38.90	57.70	-25.9	VERTICAL	PASSED
636.072545	31.90	39.36	57.50	-25.6	VERTICAL	PASSED
898.197595	34.10	50.70	56.10	-22.0	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
1296.587174	54.80	549.54	73.00	-18.2	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1166.832665	32.20	40.74	51.60	-19.4	VERTICAL	PASSED
1234.466934	25.50	18.84	44.70	-19.2	VERTICAL	PASSED
1260.021042	36.70	68.39	55.50	-18.8	VERTICAL	PASSED
1295.587174	32.20	40.74	50.40	-18.2	VERTICAL	PASSED
1992.483968	34.10	50.70	46.10	-12.0	VERTICAL	PASSED
2411.831663	28.80	27.54	37.60	-8.8	HORIZONTAL	PASSED

RX mode, channel 810 / 1989.8 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3980.000000	44.00	158.49	46.60	-2.6	VERTICAL	PASSED
7960.000000	43.80	154.88	39.60	4.2	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3980.000000	28.80	27.54	31.40	-2.6	HORIZONTAL	PASSED
7960.000000	30.70	34.28	26.50	4.2	HORIZONTAL	PASSED

4.5. Bluetooth Test results

TX mode, channel 0 / 2402 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	40.80	109.65	42.60	-1.8	HORIZONTAL	PASSED
7206.000000	42.40	131.83	40.00	2.4	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	27.80	24.55	29.60	-1.8	VERTICAL	PASSED
7206.000000	28.90	27.86	26.50	2.4	HORIZONTAL	PASSED

TX mode, channel 40 / 2442 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
150.000000	22.80	13.80	48.00	-25.2	HORIZONTAL	PASSED
249.398397	22.90	13.96	45.30	-22.4	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4883.769539	41.60	120.23	43.30	-1.7	HORIZONTAL	PASSED
4955.407816	41.00	112.20	42.10	-1.1	VERTICAL	PASSED
7277.553106	44.10	160.32	41.10	3.0	VERTICAL	PASSED
7282.065130	42.90	139.64	39.90	3.0	HORIZONTAL	PASSED
7421.841683	43.30	146.22	39.60	3.7	HORIZONTAL	PASSED
17996.991984	55.40	588.84	33.90	21.5	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4884.269539	28.40	26.30	30.10	-1.7	HORIZONTAL	PASSED
4956.407816	27.60	23.99	28.70	-1.1	VERTICAL	PASSED
7277.553106	30.00	31.62	27.00	3.0	VERTICAL	PASSED
7283.065130	30.20	32.36	27.20	3.0	HORIZONTAL	PASSED
7416.841683	30.40	33.11	26.70	3.7	HORIZONTAL	PASSED
17992.991984	42.50	133.35	21.00	21.5	HORIZONTAL	PASSED

TX mode, channel 78 / 2480 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	42.30	130.32	43.40	-1.1	HORIZONTAL	PASSED
7440.000000	42.60	134.90	39.10	3.5	VERTICAL	PASSED

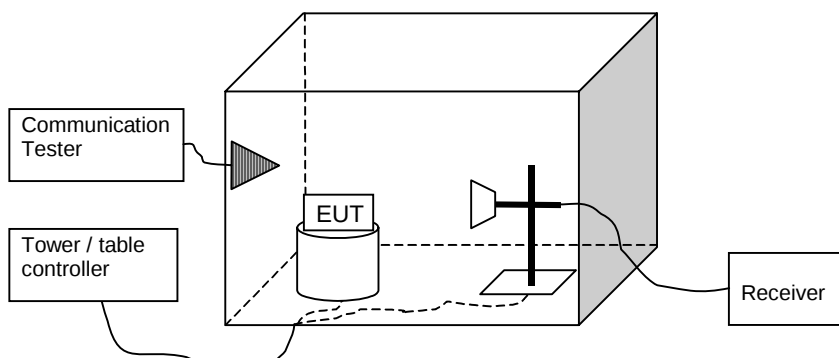
Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4960.000000	29.40	29.51	30.50	-1.1	HORIZONTAL	PASSED
7440.000000	30.10	31.99	26.60	3.5	HORIZONTAL	PASSED

5. Radiated emissions, FM radio on (FCC §15.109, ICES-003 section 5.5, RSS-132 6.6, RSS-133 9)

EUT with DUT number	RM-242 DUT 41223
Accessories with DUT numbers	AC-3E DUT 40843, BP-5M DUT 41228, AD-56 DUT 41230/ HS-45 DUT 41232
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	FM radio on
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 53 / 99.8
Date of measurements	4.9.2007
Measured by	Jari Jantunen

5.1. Test setup



5.2. Test method and limit

The measurement is made according to ANSI C63.4-2003as follows:

The measurement is performed in the Semi-Anechoic Chamber with conducting metal floor.

The measurement distance is 3 m.

The EUT is placed on a nonconductive plate at 80 cm height.

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 ($A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$).

CISPR 22 and FCC Part 15 Class B limits (3 m measurement distance)

Frequency range [MHz]	Quasi peak limit [dBμV/m]	Average limit [dBμV/m]	Peak limit [dBμV/m]
30 – 230	40	-	-
230 – 1000	47	-	-
Above 1000	-	54	74

5.3. GSM 850 +FM radio

RX mode, channel 128 / 869.2 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	38.70	86.10	44.00	-5.3	HORIZONTAL	PASSED
6953.600000	44.20	162.18	42.70	1.5	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	25.80	19.50	31.10	-5.3	HORIZONTAL	PASSED
6953.600000	30.70	34.28	29.20	1.5	HORIZONTAL	PASSED

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
34.990581	30.40	33.11	58.30	-27.9	VERTICAL	PASSED
85.370140	20.90	11.09	57.50	-36.6	VERTICAL	PASSED
102.365731	18.50	8.41	53.70	-35.2	VERTICAL	PASSED
119.380361	6.70	2.16	40.50	-33.8	VERTICAL	PASSED
180.861924	34.40	52.48	70.60	-36.2	HORIZONTAL	PASSED
876.053507	44.00	158.49	66.40	-22.4	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
3527.554108	38.90	88.10	44.00	-5.1	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
1438.375752	22.80	13.80	39.80	-17.0	HORIZONTAL	PASSED
1496.989980	22.90	13.96	39.80	-16.9	HORIZONTAL	PASSED
2431.363727	28.80	27.54	37.40	-8.6	HORIZONTAL	PASSED
2993.489980	32.30	41.21	36.50	-4.2	HORIZONTAL	PASSED
3531.054108	25.70	19.28	30.70	-5.0	HORIZONTAL	PASSED

RX mode, channel 251 / 893.8 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3575.200000	39.00	89.13	43.90	-4.9	HORIZONTAL	PASSED
7150.400000	42.00	125.89	39.80	2.2	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3575.200000	25.90	19.72	30.80	-4.9	HORIZONTAL	PASSED
7150.400000	28.80	27.54	26.60	2.2	HORIZONTAL	PASSED

6. Test Equipment

6.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM37610	Spectrum analyzer	FSU	R&S	22/24, 15C
TM37678	Radio communication tester	CMU-200	R&S	22/24, 15C
	Attenuator 10 dB	6251.17.A	Huber+Suhner AG	22/24, 15C
TM37499	Power splitter	11667A	Agilent	22/24, 15C
	Temperature chamber	VT4002	Vötsch	22/24, 15C
TM38112	DC power supply	6632A	Agilent	22/24, 15C
TM38111	Multimeter	34401A	Agilent	22/24, 15C
	EMI Test receiver	ESPC	R&S	15C, 15B
TM37773	Radio communication tester	CMU-200	R&S	15C, 15B
TM38631	Signal generator	83640L	Agilent	15C, 15B
TM38114	DC power supply	6632A	Agilent	15C, 15B
TM22835	Multimeter	87	Fluke	15C, 15B
TM30600	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
TM26490	LISN 50 µH	ESH3-Z5/	R&S	15C, 15B
TM30636	LISN 50 µH	L2-16/	PMM	15C, 15B

6.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM30599	3m semi-anechoic chamber		TDK	22/24, 15C, 15B
TM38845	EMI receiver	ESI 40	R&S	22/24, 15C, 15B
TM37498	Preamplifier	AMF-5D-020180-26-10P	MITEQ	22/24, 15C, 15B
TM37523	Preamplifier	AMF-4D-10M-3G-25-20P	MITEQ	22/24, 15C, 15B
TM37516	Biconilog antenna	HL562	R&S	22/24, 15C, 15B
TM26496	Double ridged waveguide antenna	3115	EMCO	22/24, 15C, 15B
TM39158	Horn antenna	3116	EMCO	22/24, 15C, 15B
TM26492	Reference dipole set	UHAP/VHAP	Schwarzbeck	22/24, 15C, 15B
TM37501	Dipole antenna	3125-870	EMCO	22/24
TM37502	Dipole antenna	3125-1880	EMCO	22/24
TM37773	Radio communication tester	CMU-200	R&S	22/24, 15C, 15B
TM38631	Signal generator	83640L	Agilent	22/24, 15C, 15B
TM38066	High pass filter	4HC3000/18000-3-KK	Trilithic	22/24, 15C, 15B
	High pass filter	WHK2010-10SS	Trilithic	22/24, 15C, 15B
	Low pass filter	WLK1750-10SS	Trilithic	22/24, 15C, 15B
TM26511	Tunable notch filter	WRCA870	Wainwright	22/24
TM38215	Tunable notch filter	WRCD1850/1910-0.2/40	Wainwright	22/24
TM38214	Band reject filter	WRCT 2402/2480-2400/2483.5-30	Wainwright	15C
TM30642	Turntable controller	HD-100	Deisel	22/24, 15C, 15B
TM26500	Turntable	DS412	Deisel	22/24, 15C, 15B
TM38842	Antenna mast controller	2090	EMCO	22/24, 15C, 15B
TM38843	Antenna mast	2075	EMCO	22/24, 15C, 15B
TM38114	DC power supply	6632A	Agilent	22/24, 15C, 15B
TM22835	Multimeter	87	Fluke	22/24, 15C, 15B