

FCC Part 15B Compliance Test Report

Test Report no.:	FCC15B_RM-730_13.docx	Date of Report:	01-Jul-2011
Number of pages:	18	Customer's Contact person:	Wang Ying-Echo
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FCC listing no.:	99059		
IC recognition no.:	661AL-1		
Tested devices/ accessories:	Phone RM-730 / Battery BL-4D / Headset WH-102 / AC-Charger AC-8C / Headset WH-102 / Laptop Lenovo T61 / USB Memory Stick / USB Cable CA-101		
FCC ID:	QTLRM-730	IC:	661AB-RM730
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart B, ANSI C63.4 (2003), ICES-003, CISPR 22, RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), 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".		
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:			

Ruben Hansen, System Manager, EMC

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	25-May-2011
Testing completed	21-Jun-2011
The customer's contact person	Wang Ying-Echo
Test Plan referred to	T:\Projects\RM-730\TestPlan\RS_testplan_RM-730.xls
Notes	-
Document name	T:\Projects\RM-730\EMC\FCC15B_RM-730_13.docx

1.1. EUT and Accessory Information

The EUT is a 5-band (GSM850/900/1800/1900) and WCDMA Band (1900) mobile phone with GPRS, EGPRS, HSDPA, HSUPA and WLAN and Bluetooth.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-730	008600/08/003891/1	0201	-	022.001	23647
Battery	BL-4D	4620401117N20510664;0670605	-	-	-	23629
Headset	WH-102	06943250432H2610503	-	-	-	23613
AC-Charger	AC-8C	4884750383170507326;0675391	-	-	-	23623
Laptop	Lenovo T61	1S7665D71L3W8321	-	-	-	24950
USB Memory Stick	-	-	-	-	-	23929
USB Cable	CA-101	07306351123V1200021	-	-	-	23617

1.2. Summary of Test Results

GSM850:

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 (4.6)	Radiated emissions	-

GSM1900:

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 (6.6)	Radiated emissions	-

WLAN:

Section in CFR 47	Section in ICES-003 (RSS-139)	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	Passed
15.109, a	5.5 (6.6)	Radiated emissions	-

Bluetooth:

Section in CFR 47	Section in ICES-003 (RSS-139)	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

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.

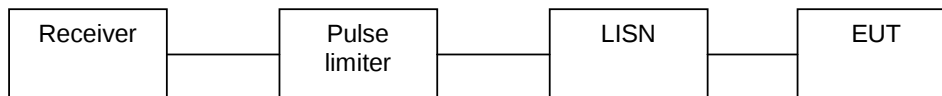
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2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-730, DUT 23647
Accessories with DUT numbers	BL-4D, DUT 23629 ; CA-101, DUT 23617; AC-8C, DUT 23623 ; Lenovo T61, DUT 24950 ; Memory Stick, DUT 23929 ; CA-101, DUT 23617
Operation Voltage [V] / [Hz]	115 / 60
Results	Passed
Remarks	Measure at line of AC-8C. Continuous data transfer was active between the phone and the computer during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23 / 44 / 103
Date of measurements	08-Jun-2011
Measured by	Bo Moltved Christiansen

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:

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

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

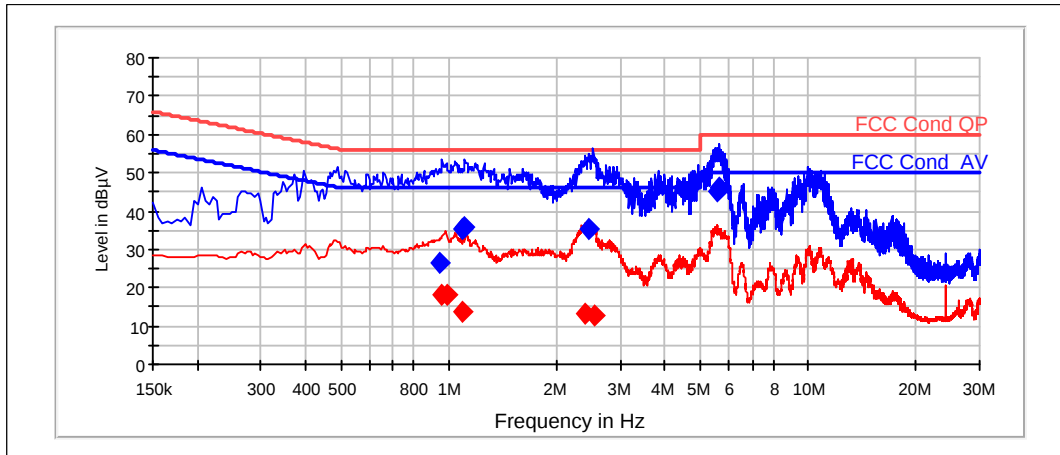
CISPR 22 Class B limits

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

2.3. Bluetooth Test results

2.3.1 RX mode

Channel 40 / 2442 MHz



QuasiPeak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.945	26.65	L1	PASSED
1.085	35.49	N	PASSED
1.11	35.83	N	PASSED
2.45	35.16	N	PASSED
5.57	45.34	N	PASSED
5.665	46.09	N	PASSED

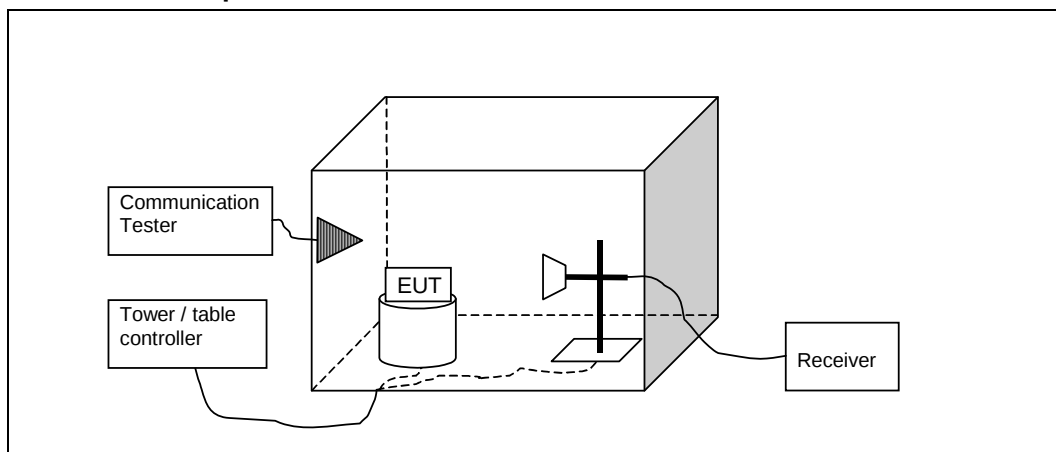
Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.95	18.09	N	PASSED
0.995	18.15	N	PASSED
1.095	13.86	N	PASSED
2.39	13.39	N	PASSED
2.535	12.9	N	PASSED

3. Radiated emissions (FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6)

EUT with DUT number	RM-730, DUT 23647
Accessories with DUT numbers	BL-4D, DUT 23629 ; WH-102, DUT 23613 ; AC-8C, DUT 23623 ; WH-102, DUT 23613
Operation Voltage [V] / [Hz]	115 / 60
Results	Passed
Remarks	WLAN tested with GPS receiver active. GSM850 and GSM1900 tested with FM-radio active.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23 / 46 / 100.1
Date of measurements	21-Jun-2011
Measured by	Christian Andersen

3.1.1 Test Setup



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

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

3.3. GSM850 Test results

RX mode, channel 128 / 869.2 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3477.1	36.23	64.766	39.16	-2.93	VERTICAL	Passed
6951.9	56.14	641.283	47.07	9.07	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
3477.1	23.45	14.878	26.38	-2.93	VERTICAL	Passed
6951.9	43.1	142.906	34.03	9.07	HORIZONTAL	Passed

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
32.906	22.24	12.94	37.06	-14.82	VERTICAL	Passed
46.935	20.04	10.044	43.63	-23.59	VERTICAL	Passed
77.593	18.44	8.353	43.96	-25.52	VERTICAL	Passed
80.078	22.29	13.018	47.45	-25.16	VERTICAL	Passed
97.787	11.31	3.677	34.62	-23.31	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
2916.432	49.28	291.172	42.82	6.46	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
2916.432	35.96	62.813	29.5	6.46	HORIZONTAL	Passed

RX mode, channel 190 / 881.6 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
7054.308	49.17	287.541	39.52	9.65	HORIZONTAL	Passed
7819.538	49.48	297.68	37.34	12.14	HORIZONTAL	Passed
7843.985	49.49	298.023	37.34	12.15	VERTICAL	Passed
7849.197	49.59	301.648	37.47	12.12	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
7054.308	34.33	52.065	24.68	9.65	HORIZONTAL	Passed
7819.538	36.64	67.905	24.5	12.14	HORIZONTAL	Passed
7843.985	36.71	68.478	24.56	12.15	VERTICAL	Passed
7849.197	36.66	68.085	24.54	12.12	HORIZONTAL	Passed

RX mode, channel 251 / 893.8 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3574.5	36.87	69.759	39.03	-2.16	VERTICAL	Passed
7152	49.15	286.847	38.52	10.63	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
3574.5	23.88	15.637	26.04	-2.16	VERTICAL	Passed
7152	35.63	60.471	25	10.63	HORIZONTAL	Passed

3.4. GSM1900 Test results

RX mode, channel 512 / 1930.2 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3859.7	38.74	86.487	39.65	-0.91	HORIZONTAL	Passed
7722	48.36	261.939	36.8	11.56	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
3859.7	25.59	19.028	26.5	-0.91	HORIZONTAL	Passed
7722	35.75	61.334	24.19	11.56	HORIZONTAL	Passed

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
32.945	21.11	11.368	35.96	-14.85	VERTICAL	Passed
47.291	19.25	9.175	43.08	-23.83	VERTICAL	Passed
80.101	23.11	14.31	48.27	-25.16	VERTICAL	Passed
97.946	69.1	2852.332	92.17	-23.07	VERTICAL	Passed

*98.0 MHz frequency is FM TX carrier and thus ignored.

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1960.019	64.37	1654.436	65.73	-1.36	HORIZONTAL	Passed
2953.103	48.78	274.884	42.16	6.62	HORIZONTAL	Passed

*1960 MHz frequency is coming from communication tester and thus ignored.

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1960.019	63.67	1525.106	65.03	-1.36	HORIZONTAL	Passed
2953.103	35.71	61.003	29.09	6.62	HORIZONTAL	Passed

*1960 MHz frequency is coming from communication tester and thus ignored.

RX mode, channel 661 / 1960.0 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
7822.742	50.6	338.688	38.39	12.21	HORIZONTAL	Passed
7839.378	49.38	294.374	37.21	12.17	HORIZONTAL	Passed
7847.899	49.73	306.62	37.6	12.13	VERTICAL	Passed
7856.21	49.53	299.709	37.33	12.2	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
7822.742	36.66	68.046	24.45	12.21	HORIZONTAL	Passed
7839.378	36.74	68.675	24.57	12.17	HORIZONTAL	Passed
7847.899	36.59	67.515	24.46	12.13	VERTICAL	Passed
7856.21	36.6	67.632	24.4	12.2	HORIZONTAL	Passed

RX mode, channel 810 / 1989.8 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3981.5	37.98	79.241	39.04	-1.06	HORIZONTAL	Passed
7960	50	316.337	37.07	12.93	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
3981.5	25.26	18.313	26.32	-1.06	HORIZONTAL	Passed
7960	37.29	73.164	24.36	12.93	HORIZONTAL	Passed

3.5. WLAN Test results

DSSS mode, 11 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
4825.5	41.62	120.517	39.73	1.89	HORIZONTAL	Passed
7236.4	47.83	246.207	37.42	10.41	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
4825.5	28.64	27.033	26.75	1.89	HORIZONTAL	Passed
7236.4	34.9	55.616	24.49	10.41	HORIZONTAL	Passed

Channel 7 / 2442 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
30.03	26.61	21.397	39.77	-13.16	VERTICAL	Passed
46.502	26.92	22.169	50.21	-23.29	VERTICAL	Passed
76.643	19.89	9.873	46.02	-26.13	HORIZONTAL	Passed
76.701	20.44	10.515	46.56	-26.12	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
1579.556	40.73	108.755	45.8	-5.07	VERTICAL	Passed
2920.444	48.7	272.239	41.98	6.72	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
1579.556	28.12	25.48	33.19	-5.07	VERTICAL	Passed
2920.444	36.17	64.35	29.45	6.72	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
7831.266	49.91	312.788	37.69	12.22	HORIZONTAL	Passed
7840.183	49.99	315.864	37.82	12.17	HORIZONTAL	Passed
7844.391	49.97	315.029	37.82	12.15	HORIZONTAL	Passed
7853.607	49.58	301.335	37.42	12.16	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
7831.266	36.89	69.896	24.67	12.22	HORIZONTAL	Passed
7840.183	36.94	70.275	24.77	12.17	HORIZONTAL	Passed
7844.391	36.92	70.129	24.77	12.15	HORIZONTAL	Passed
7853.607	36.68	68.242	24.52	12.16	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
4922.3	43.69	152.985	41.23	2.46	VERTICAL	Passed
7388	49.21	288.636	37.15	12.06	HORIZONTAL	Passed

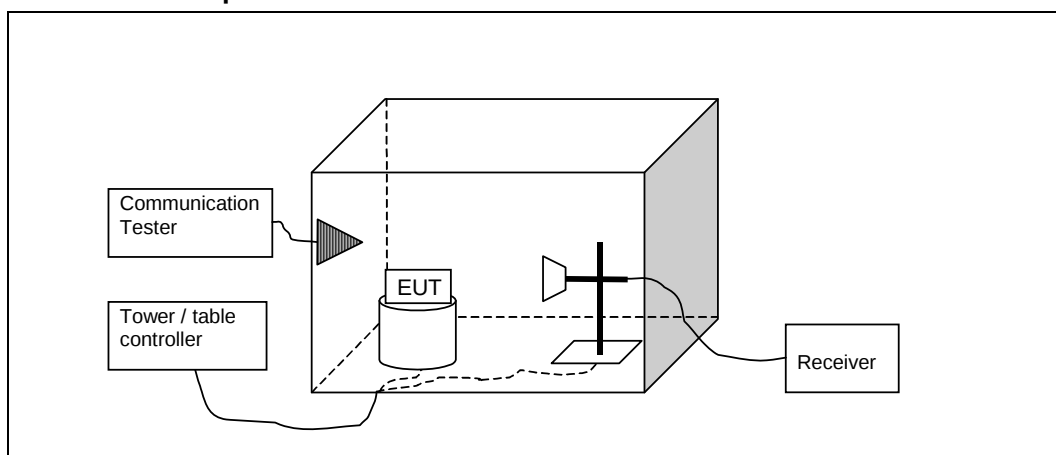
Average(RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4922.3	30.59	33.83	28.13	2.46	VERTICAL	Passed
7388	36.21	64.61	24.15	12.06	HORIZONTAL	Passed

4. Radiated emissions (FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6)

EUT with DUT number	RM-730, DUT 23647
Accessories with DUT numbers	BL-4D, DUT 23629 ; WH-102, DUT 23613 ; AC-8C, DUT 23623 ; WH-102, DUT 23613 ; Lenovo T61, DUT 24950 ; CA-101, DUT 23617; Memory Stick, DUT 23929
Operation Voltage [V] / [Hz]	115 / 60
Results	Passed
Remarks	Continuous data transfer was active between the phone and the computer during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23 / 46 / 100.1
Date of measurements	22-Jun-2011
Measured by	Christian Andersen

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

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. Bluetooth Test results

4.3.1 GFSK modulation, PRBS packet type

TX mode, Channel 0 / 2402 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.2	41.76	122.462	39.65	2.11	VERTICAL	Passed
7205.9	48.31	260.166	37.21	11.1	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
4804.2	28.64	27.03	26.53	2.11	VERTICAL	Passed
7205.9	35.42	59.047	24.32	11.1	VERTICAL	Passed

TX mode, Channel 40 / 2442 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
7837.575	49.92	313.365	37.74	12.18	HORIZONTAL	Passed
7838.674	49.65	303.669	37.47	12.18	VERTICAL	Passed
7846.592	49.61	302.169	37.48	12.13	HORIZONTAL	Passed
7853.105	49.49	298.298	37.33	12.16	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
7837.575	36.86	69.623	24.68	12.18	HORIZONTAL	Passed
7838.674	36.82	69.335	24.64	12.18	VERTICAL	Passed
7846.592	36.8	69.215	24.67	12.13	HORIZONTAL	Passed
7853.105	36.68	68.226	24.52	12.16	VERTICAL	Passed

TX mode, Channel 40 / 2442 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
34.359	34.98	56.073	50.6	-15.62	VERTICAL	Passed
39.309	25.29	18.387	43.89	-18.6	VERTICAL	Passed
195.57	29.58	30.137	54.45	-24.87	HORIZONTAL	Passed
204.378	33.76	48.753	57.82	-24.06	HORIZONTAL	Passed
663.788	41.8	123.055	55.66	-13.86	VERTICAL	Passed
912.809	24.56	16.91	34.78	-10.22	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
1575.351	47.67	241.908	50.73	-3.06	HORIZONTAL	Passed
2996.091	50.76	345.223	41.9	8.86	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
1575.351	34.61	53.74	37.67	-3.06	HORIZONTAL	Passed
2996.091	37.58	75.692	28.72	8.86	HORIZONTAL	Passed

TX mode, Channel 78 / 2480 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.2	45	177.767	42.56	2.44	HORIZONTAL	Passed
7440.8	48.64	270.365	36.81	11.83	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
4960.2	30.71	34.312	28.27	2.44	HORIZONTAL	Passed
7440.8	35.93	62.582	24.1	11.83	HORIZONTAL	Passed

5. Test Equipment

5.1. 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

5.2. 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 μ 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 μ 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 μ Wave Mux	10-785-522	-	22/24/27, 15C, 15B