

FCC Part 15B Compliance Test Report

Test Report no.:	FCC15B_RM-553_03.doc	Date of Report:	24-Jul-2009
Number of pages:	16	Customer's Contact person:	Futoshi Kimura
Testing laboratory:	TCC Nokia Copenhagen Laboratory Frederikskaj 1790 COPENHAGEN V DENMARK Tel. +45 33 292929 Fax. +45 33 292934	Customer:	Nokia Corporation Arco Tower Shimomeguro 1-8-1 Meguro-ku TOKYO 153-0064 JAPAN Tel. +81 3 5759 7001 Fax. +81 3 5740 6858
FCC listing no.:	99059		
IC recognition no.:	661AD-1		
Tested devices/ accessories:	Phone; RM-553, Battery; BL-4D, Headset; WH-701, AC Charger; AC-10E		
FCC ID:	QVVRM-553	IC:	661AE-RM553
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 and IC standards RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), RSS-139 (Issue 1, February 2008) 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:			

Jia Dongsheng, System Manager

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	22-Jun-2009
Testing completed	24-Jul-2009
The customer's contact person	Futoshi Kimura
Test Plan referred to	T:\Projects\RM-555\TestPlan_RS\RS_testplan_RM-555_initial.xls
Notes	None
Document name	FCC15B_RM-555_03.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. GSM and WCDMA bands are tested in idle mode. Bluetooth and WLAN are tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-555	004401/10/682660/1	3010	-	52.50.2009.22.1	24970
Battery	BL-4D	4181579161001101972;0670603	-	-		24962
AC Charger	AC-10E	3997918422120500394;0675408	-	-		24954
Headset	WH-701	1S7665D71L3W8321	-	-		24950
Phone	RM-555	004401/10/682662/7	3010	-	52.50.2009.22.1	24972
Battery	BL-4D	4181579161001101971;0670603	-	-	-	24959
AC Charger	AC-10E	3997918521100500046;0675408	-	-	-	24957
Headset	WH-701	06944289174H2R00443	-	3.1	3.1	24956

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 (4.6)	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	NP
15.109, a	5.5 (6.6)	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

WLAN:

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

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 Copenhagen Laboratory.

The test results of QVVRM-555 are re-used for certification of the QVVRM-553. The table above indicates the results, which will be re-used.

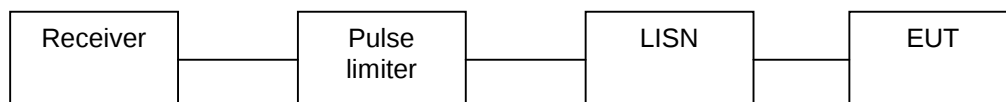
CONTENTS

1. Summary for FCC Part 15B Compliance Test Report.....	2
1.1. EUT and Accessory Information	2
1.2. Summary of Test Results	2
2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)	5
2.1. Test setup	5
2.2. Test method and limit	5
2.3. GSM 850 Test results	6
2.4. Bluetooth Test results	7
2.5. WLAN Test results	8
3. Radiated emissions (FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6, RSS-139 6.6).....	9
3.1. Test setup	9
3.2. Test method and limit	9
3.3. GSM 850 Test results	10
3.4. GSM 1900 Test results	11
3.5. Bluetooth Test results	12
3.6. WLAN Test results	14
4. Test Equipment.....	15
4.1. Conducted measurements	15
4.2. Radiated measurements	15

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

EUT with DUT number	RM-555 DUT: 24970
Accessories with DUT numbers	BL-4D DUT 24962; AC-10E DUT: 24954; WH-701 DUT: 24956
Operation Voltage [V] / [Hz]	115 / 60
Result	Passed
Remarks	None
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23 / 50 / 1007
Date of measurements	8 July 2009
Measured by	Ruben Hansen

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:

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

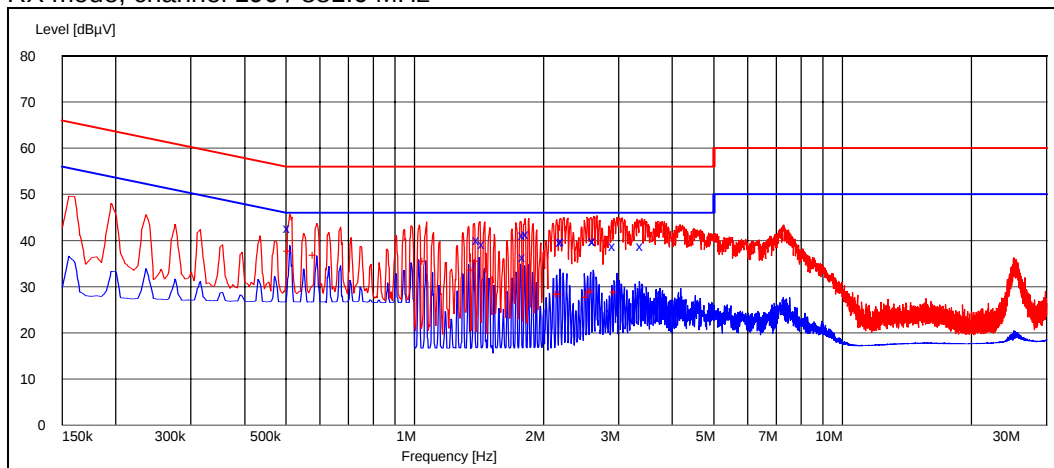
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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)

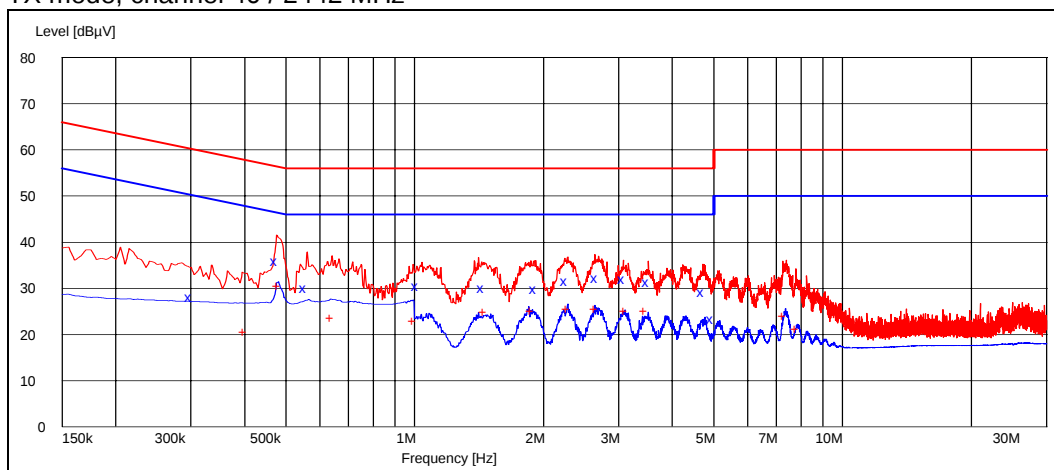
Frequency [MHz]	U [dBμV]	Line	Result
0.510000	42.80	N	Passed
1.415000	40.20	N	Passed
1.455000	39.20	N	Passed
1.805000	41.20	N	Passed
1.810000	36.50	N	Passed
1.845000	41.30	N	Passed
2.210000	39.60	N	Passed
2.230000	39.90	N	Passed
2.635000	39.80	N	Passed
2.640000	39.90	N	Passed
2.935000	38.90	N	Passed
3.405000	38.90	N	Passed

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.510000	37.70	N	Passed
0.585000	36.80	N	Passed
1.055000	35.60	N	Passed
1.370000	33.60	N	Passed
1.405000	35.50	N	Passed
2.170000	28.40	N	Passed
2.200000	28.30	N	Passed
2.540000	27.70	N	Passed
2.575000	28.80	N	Passed
2.610000	29.10	N	Passed
2.955000	28.80	N	Passed

2.4. Bluetooth Test results

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

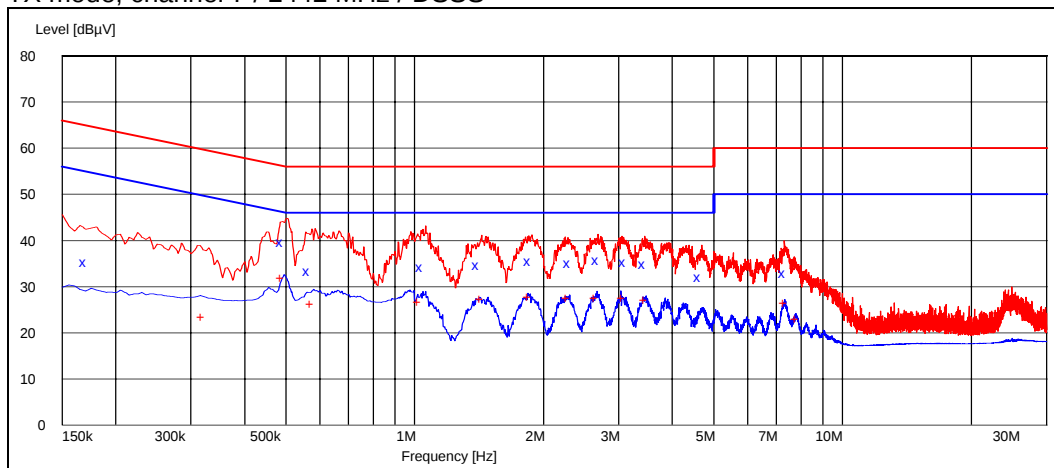
Frequency [MHz]	U [dBμV]	Line	Result
0.300000	28.10	N	Passed
0.475000	35.80	N	Passed
0.555000	30.10	N	Passed
1.015000	30.60	N	Passed
1.445000	30.10	N	Passed
1.920000	29.80	N	Passed
2.265000	31.60	N	Passed
2.670000	32.30	N	Passed
3.085000	31.90	N	Passed
3.515000	31.40	N	Passed
4.730000	29.20	N	Passed
4.970000	23.30	L1	Passed

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.400000	20.50	N	Passed
0.480000	30.50	N	Passed
0.640000	23.60	N	Passed
1.000000	23.00	N	Passed
1.460000	24.80	N	Passed
1.880000	25.10	N	Passed
2.280000	25.50	N	Passed
2.655000	25.50	N	Passed
3.115000	25.10	N	Passed
3.470000	25.00	N	Passed
7.315000	24.00	N	Passed
7.825000	21.10	N	Passed

2.5. WLAN Test results

TX mode, channel 7 / 2442 MHz / DSSS



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.170000	35.30	L1	Passed
0.490000	39.70	N	Passed
0.565000	33.40	N	Passed
1.040000	34.20	N	Passed
1.410000	34.60	N	Passed
1.860000	35.60	N	Passed
2.300000	35.10	N	Passed
2.685000	35.80	N	Passed
3.100000	35.30	N	Passed
3.450000	34.90	N	Passed
4.650000	32.00	N	Passed
7.340000	33.00	N	Passed

Average (RBW: 9 kHz)

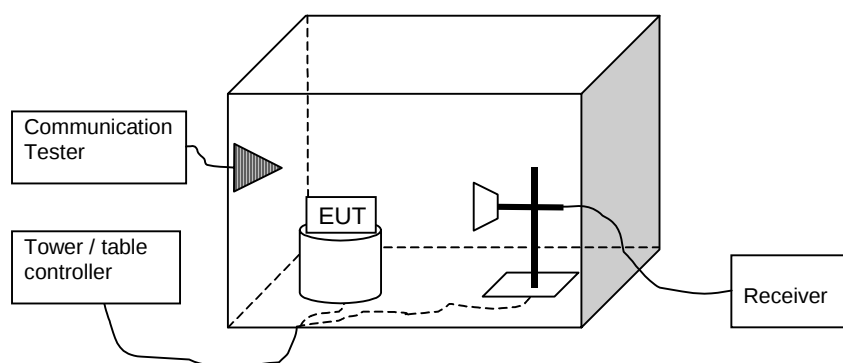
Frequency [MHz]	U [dBμV]	Line	Result
0.320000	23.50	N	Passed
0.490000	31.90	N	Passed
0.575000	26.20	N	Passed
1.025000	26.60	N	Passed
1.435000	27.30	N	Passed
1.855000	27.70	N	Passed
2.280000	27.40	N	Passed
2.650000	27.60	N	Passed
3.080000	27.50	N	Passed
3.465000	27.10	N	Passed
7.345000	26.50	N	Passed
7.830000	23.10	N	Passed

3. Radiated emissions

(FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6, RSS-139 6.6)

EUT with DUT number	RM-555 DUT 24972
Accessories with DUT numbers	BL-4D DUT 24959, AC-10E DUT 24957, WH-701 DUT 24956
Operation Voltage [V] / [Hz]	Passed
Result	Passed
Remarks	BT and WLAN tested with GPS receiver active. GSM850 and GSM1900 tested with FM radio active.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 58 / 101.4
Date of measurements	14-Jul-2009
Measured by	Christian Andersen

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

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

3.3. 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	34.60	53.70	39.30	-4.7	VERTICAL	Passed
6953.600000	45.40	186.21	37.90	7.5	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	21.60	12.02	26.30	-4.7	HORIZONTAL	Passed
6953.600000	32.90	44.16	25.40	7.5	VERTICAL	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
38.276353	31.00	35.48	41.70	-10.7	VERTICAL	Passed
56.833868	32.00	39.81	54.40	-22.4	VERTICAL	Passed
72.184168	28.30	26.00	48.30	-20.0	HORIZONTAL	Passed
84.086774	18.90	8.81	37.30	-18.4	VERTICAL	Passed
881.563527	57.50	749.89	64.00	-6.5	VERTICAL	Passed

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

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2963.427856	39.60	95.50	29.10	10.5	VERTICAL	Passed

RX mode, channel 251 / 893.8 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	34.50	53.09	38.50	-4.0	VERTICAL	Passed
7150.400000	42.00	125.89	33.30	8.7	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	21.70	12.16	25.70	-4.0	VERTICAL	Passed
7150.400000	28.80	27.54	20.10	8.7	VERTICAL	Passed

3.4. GSM 1900 Test results

RX mode, channel 512 / 1930.2 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	36.20	64.57	39.50	-3.3	VERTICAL	Passed
7720.000000	43.20	144.54	33.70	9.5	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	23.50	14.96	26.80	-3.3	HORIZONTAL	Passed
7720.000000	29.70	30.55	20.20	9.5	VERTICAL	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
39.038277	27.10	22.65	38.30	-11.2	VERTICAL	Passed
57.033868	32.20	40.74	54.60	-22.4	VERTICAL	Passed
73.686573	29.40	29.51	49.20	-19.8	VERTICAL	Passed
634.670541	17.70	7.67	27.30	-9.6	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
1959.919840	73.60	4786.30	72.50	1.1	VERTICAL	Passed

*1960.0 MHz frequency is coming from communication tester and thus ignored.

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1959.919840	73.00	4466.84	71.90	1.1	VERTICAL	Passed
2981.965932	39.40	93.33	28.90	10.5	VERTICAL	Passed

*1960.0 MHz frequency is coming from communication tester and thus ignored.

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	36.20	64.57	39.20	-3.0	VERTICAL	Passed
7960.000000	43.10	142.89	32.30	10.8	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3980.000000	23.70	15.31	26.70	-3.0	VERTICAL	Passed
7960.000000	30.60	33.88	19.80	10.8	VERTICAL	Passed

3.5. 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	43.20	144.54	43.70	-0.5	HORIZONTAL	Passed
7206.000000	41.50	118.85	32.70	8.8	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	30.60	33.88	31.10	-0.5	HORIZONTAL	Passed
7206.000000	28.70	27.23	19.90	8.8	VERTICAL	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
37.976353	12.40	4.17	28.80	-16.4	VERTICAL	Passed
74.467535	13.30	4.62	38.90	-25.6	HORIZONTAL	Passed
74.469940	13.30	4.62	38.90	-25.6	HORIZONTAL	Passed
108.056313	19.50	9.44	43.10	-23.6	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
7325.651303	46.60	213.80	37.80	8.8	VERTICAL	Passed
7325.653307	47.80	245.47	39.00	8.8	VERTICAL	Passed
17476.447896	53.00	446.68	29.40	23.6	HORIZONTAL	Passed
17874.745491	58.60	851.14	30.70	27.9	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
7325.651303	33.80	48.98	25.00	8.8	VERTICAL	Passed
7326.653307	31.80	38.90	23.00	8.8	VERTICAL	Passed
17470.947896	40.10	101.16	16.50	23.6	HORIZONTAL	Passed
17875.245491	45.50	188.36	17.60	27.9	VERTICAL	Passed

TX mode, channel 78 / 2480 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
4960.000000	38.80	87.10	38.90	-0.1	VERTICAL	Passed
7440.000000	45.70	192.75	36.10	9.6	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	26.00	19.95	26.10	-0.1	VERTICAL	Passed
7440.000000	32.30	41.21	22.70	9.6	VERTICAL	Passed

3.6. WLAN Test results

RX mode, channel 1

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	36.60	67.61	37.20	-0.6	VERTICAL	Passed
7236.000000	42.50	133.35	34.20	8.3	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	24.00	15.85	24.60	-0.6	VERTICAL	Passed
7236.000000	29.60	30.20	21.30	8.3	VERTICAL	Passed

RX mode, channel 7 / 2442 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.433467	30.00	31.62	40.10	-10.10	VERTICAL	Passed
52.443287	19.60	9.55	40.20	-20.60	HORIZONTAL	Passed
66.431663	29.50	29.85	50.60	-21.10	HORIZONTAL	Passed
121.423246	20.40	10.47	38.10	-17.70	VERTICAL	Passed
881.663527	61.80	1230.27	68.30	-6.50	VERTICAL	Passed

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

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2983.967936	39.60	95.50	29.00	10.60	HORIZONTAL	Passed

RX mode, channel 11

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	38.40	83.18	38.40	0.0	VERTICAL	Passed
7386.000000	43.10	142.89	32.90	10.2	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	24.60	16.98	24.60	0.0	VERTICAL	Passed
7386.000000	30.90	35.08	20.70	10.2	VERTICAL	Passed

4. Test Equipment

4.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
13037	Power Supply 0-15V 10A	EA3012	LP Instruments	15C, 15B
13513	Pulse Limiter 9KHz-30MHz	ESH3Z2	Rohde&Schwarz	15C, 15B
13666	EMI Test Reciever 9KHz-2,5GHz	ESPC	Rohde&Schwarz	15C, 15B
13935	Two Lines Artificial Mains Network	ESH3-Z5	Rohde&Schwarz	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
19171	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	15C, 15B
11386	System DC Power Supply	HP6632A	Hewlett Packard	22/24/27, 15C, 15B
19678	Spectrum Analyzer 26 GHz	FSP	Rohde&Schwarz	22/24/27, 15C, 15B
16601	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
19625	Vötsch Climatic Chamber	VT4002EMC	Vötsch	22/24/27, 15C, 15B
13357	Rohde & Schwartz Signal Generator	SMP02	Rohde&Schwarz	22/24/27, 15C, 15B
20168	Bluetooth EDR Tester	CBT	Rohde&Schwarz	22/24/27, 15C, 15B

4.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
18416	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
	Programmable Relay Switching System	-----	Pickering	22/24/27, 15C, 15B
15742	Programmable Relay Switching System	-----	Pickering	22/24/27, 15C, 15B
14020	Power Supply Module Relay Switching System 45W	10-910-002	Pickering	22/24/27, 15C, 15B
15743	Power Supply Module Relay Switching System 50W	10-910L-001	Pickering	22/24/27, 15C, 15B
16490	RS-232/IEEE-488.2 Interface	10-921-001	Pickering	22/24/27, 15C, 15B
	RS-232/IEEE-488.2 Interface	10-921-001	Pickering	22/24/27, 15C, 15B
20078	Relay 2x6 Chnl μ Wave Mux	10-785B-522	Pickering	22/24/27, 15C, 15B
14021	Relay Dual 6 Chnl μ Wave Mux	10-785-522		22/24/27, 15C, 15B
	Relay Dual 6 Chnl μ Wave Mux	10-785-522		22/24/27, 15C, 15B
17644	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	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
18792	Multi Device Controller	2090	ETS-EMCO	22/24/27, 15C, 15B
14963	RF Preamplifier 100MHz-4GHz (Metal Chassis)	AFS3-00100400	Miteq/NMP Cph	22/24/27, 15C, 15B
18861	EMI Test Receiver 20Hz-26,5GHz	ESI	Rohde&Schwarz	22/24/27, 15C, 15B
20335	Ultra Broadband Antenna Ultralog 30-3000MHz	HL562	Rohde&Schwarz	22/24/27, 15C, 15B
18773	Shielded Chamber	RFD-100	ETS-Lindgren	22/24/27, 15C, 15B
18774	Shielded Chamber	RFSD-F/A-100	ETS-Lindgren	22/24/27, 15C, 15B
19151	High Pass Filter 3GHz	WHJS3000-10SS	Wainwright	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
	WHK3.0/18G-10ss			
13937	Ultra Stable Notch Filter 850MHz	WRCA902.4-0.2/40-6SS	Wainwright Instruments	22/24/27, 15C, 15B
13936	Ultra Stable Notch Filter 1747,5MHz	WRCD1747.5-0.2/40-10SS	Wainwright Instruments	22/24/27, 15C, 15B
14114	Highpass filter	WHK1000-12SS	Wainwright Instruments	22/24/27, 15C, 15B
14188	Ultra Stable Notch Filter 902,4MHz	WRCA902.4-0.2/40-6SS	Wainwright	22/24/27, 15C, 15B
14187	Ultra Stable Notch Filter 1747,5MHz	WRCD1747.5-0.2/40-10SS	Wainwright	22/24/27, 15C, 15B
16633	Ultra Stable Notch Filter 1880,0MHz	WRCD1880.0-0.2/40-10SS	Wainwright	22/24/27, 15C, 15B
19587	BT/WLAN Band Reject Filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	22/24/27, 15C, 15B
20115	WDCMA Band 2 filter		Wainwright	24, 15C, 15B
20114	WDCMA Band 4 filter	WRCG1737/1743-1733/1747-40/6SS	Wainwright	27, 15C, 15B
20116	WDCMA Band 5&6 filter	WRCG832/83/-825/845-40/5SS	Wainwright	22, 15C, 15B
18323	Band reject filter 1947-1953MHz 40dB	WRCG1947/1953-1940/1960-40/6SS	Wainwright	22/24/27, 15C, 15B
20031	Double Ridged Broadband Horn	BBHA 9120 D	SCHWARZBECK	22/24/27, 15C, 15B
19966	Magnetic Loop Antenna 9 kHz - 30 MHz	HFH2-Z2	Rohde&Schwarz	15C, 15B
14993	EMI Test Receiver 9KHz-2750MHz	ESCS30	Rohde&Schwarz	22/24/27, 15C, 15B
15191	Turntable Contoller Unit	G-800SDX	YAESU	22/24/27, 15C, 15B
14900	Antenna Controller	HD100	HD GmbH	22/24/27, 15C, 15B
19374	Resonant Dipole Antenna 850MHz SMA m Conn.	-----	NMP Cph	22/24/27, 15C, 15B
19375	Resonant Dipole Antenna 1900MHz SMA m Conn.	-----	NMP Cph	22/24/27, 15C, 15B
20168	Bluetooth EDR Tester	CBT	Rohde&Schwarz	22/24/27, 15C, 15B