

FCC Part 15B Compliance Test Report

Test Report no.:	FCC15B_RM-807_20.docx	Date of Report:	07-Mar-2012
Number of pages:	15	Customer's Contact person:	Huhtala Tero
Testing laboratory:	TCC Nokia Tampere Laboratory P.O. Box 68 Sinitaival 5 FIN-33720 TAMPERE, FINLAND Tel. +358 (0) 7180 46800 Fax. +358 (0) 7180 46880	Customer:	Nokia Corporation P.O. Box 68 Sinitaival 5 FIN-33720 TAMPERE, FINLAND Tel. +358 (0) 7180 46800 Fax. +358 (0) 7180 46880
FCC listing no.:	94436		
IC recognition no.:	661AK-1		
Tested devices/ accessories:	Phone RM-807 / Battery BV-4D / AC charger AC-50E / Data Cable CA-190CD / Headset WH-208 / Laptop IBM Thinkpad T40 / AC adapter 02K6543 / Printer HP deskjet 1600CC3540A / Parallel cable for printer		
FCC ID:	PDNRM-807	IC:	661R-RM807
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-139 (Issue 2, 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:			

Jari Jantunen, System Manager, EMC

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	02-Feb-2012
Testing completed	20-Feb-2012
The customer's contact person	Huhtala Tero
Test Plan referred to	T:\Projects\RM-807\TestPlan\RS_testplan_RM-807.xls
Notes	-
Document name	T:\Projects\RM-807\EMC\FCC15B_RM-807_20.docx

1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:

GSM/WCDMA/WLAN/Bluetooth/FM Transmitter

The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-807	004402137764498	2010	-	112.010.0805	42774
Battery	BV-4D	4175352012A10401710;0670613	Proto V4 PWB V1.1	-	-	42775
Charger	AC-50E	4090492023260400312;0675619	0.5	0.4	-	42776
Data Cable	CA-190CD	-	-	-	-	42778
Laptop	IBM Thinkpad T40	99ARTGD	-	-	-	41868
AC Adapter	02K6543	-	-	-	-	40202
Printer	HP deskjet 1600CC3540A	USB8302546	-	-	-	40077
Parallel cable for printer	-	-	-	-	-	40087
Headset	WH-209	-	0.5	0.1	-	42777

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	NP
15.109, a	5.5 (4.6)	Radiated emissions	PASSED

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	NP
15.109, a	5.5 (6.6)	Radiated emissions	PASSED

WCDMA 1700 (Band IV):

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

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	NP
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.

CONTENTS

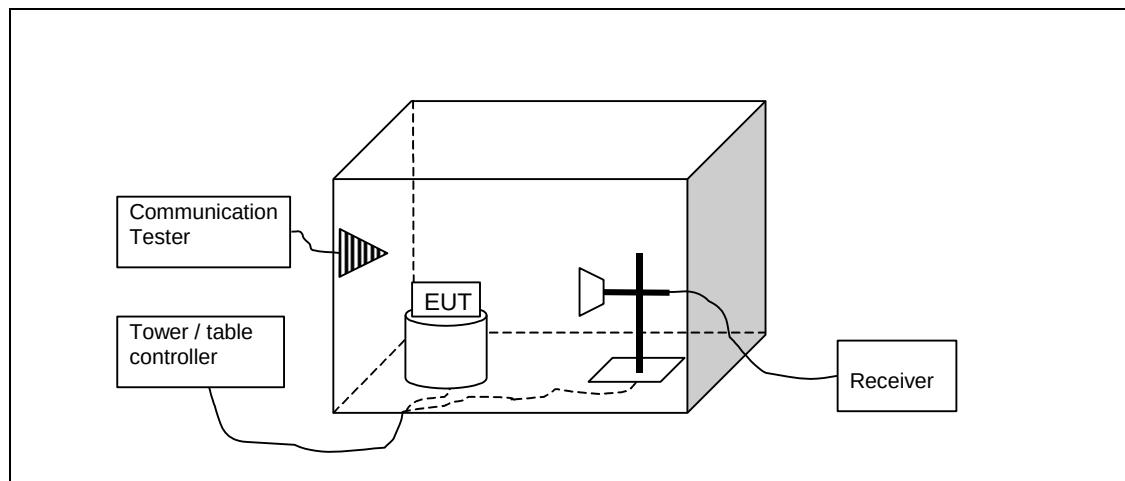
1. Summary for FCC Part 15B Compliance Test Report.....	2
1.1. EUT and Accessory Information	2
1.2. Summary of Test Results	2
2. Radiated emissions	
(FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6, RSS-139 6.6)	5
2.2. Test method and limit	5
2.3. Bluetooth Test results	6
3. Radiated emissions	
(FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6, RSS-139 6.6)	8
3.1. WLAN RX + GPS receiver active Test results	8
3.2. GSM850 + FM radio on Test results	9
3.3. GSM1900 + FM radio on Test results	10
3.4. WCDMA 1700 (Band IV) + FM radio on Test results	12
4. Test Equipment.....	14
4.1. Conducted measurements	14
4.2. Radiated measurements	14

2. 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-807, DUT 42774
Accessories with DUT numbers	BV-4D, DUT 42775 ; CA-190CD, DUT 42778 ; IBM Thinkpad T40 DUT 41868, 02K6543 DUT 40202, HP deskjet 1600CC3540A DUT 40077, Parallel cable for printer DUT 40087
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]	25 / 55 / 100.1
Date of measurements	20-Feb-2012
Measured by	Timo Raiskio

2.1.1 Test Setup



2.2. 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.

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

2.3. Bluetooth Test results

2.3.1 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
4802.8	41.26	115.625	43.63	-2.37	VERTICAL	PASSED
7206.1	44.1	160.325	42.58	1.52	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
4802.8	27.19	22.882	29.56	-2.37	VERTICAL	PASSED
7206.1	30.73	34.391	29.21	1.52	HORIZONTAL	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
171.182	33.44	46.989	68.27	-34.83	VERTICAL	PASSED
231.012	36.47	66.604	70.74	-34.27	HORIZONTAL	PASSED
257.062	39.85	98.231	73.26	-33.41	HORIZONTAL	PASSED
257.074	39.74	97.029	73.15	-33.41	HORIZONTAL	PASSED
432.546	36.17	64.372	64.71	-28.54	HORIZONTAL	PASSED
786.403	43.08	142.577	65.3	-22.22	HORIZONTAL	PASSED
800.992	39.5	94.352	61.7	-22.2	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
2498.556	57.02	709.823	64.23	-7.21	VERTICAL	PASSED
2804.607	44.84	174.602	50.1	-5.26	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
2498.556	31.02	35.551	38.23	-7.21	VERTICAL	PASSED
2804.607	31.96	39.632	37.22	-5.26	VERTICAL	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
4958.7	42.55	134.168	44.15	-1.6	VERTICAL	PASSED
7440.6	43.5	149.555	41.32	2.18	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
4958.7	29.35	29.339	30.95	-1.6	VERTICAL	PASSED
7440.6	31.01	35.526	28.83	2.18	VERTICAL	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-807, DUT 42774
Accessories with DUT numbers	BV-4D, DUT 42775 ; AC-50E, DUT 42776 ; CA-190CD, DUT 42778 ; WH-209, DUT 42777
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	25 / 55 / 99.5
Date of measurements	17-Feb-2012
Measured by	Timo Raiskio

3.1. WLAN RX + GPS receiver active Test results

RX mode, 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
4806.1	40.07	100.809	42.45	-2.38	HORIZONTAL	PASSED
7208.4	43.57	150.904	42.06	1.51	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
4806.1	27.27	23.097	29.65	-2.38	HORIZONTAL	PASSED
7208.4	30.71	34.316	29.2	1.51	VERTICAL	PASSED

RX mode, 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
32.28	20.45	10.534	42.82	-22.37	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
7822.445	44.59	169.668	42.06	2.53	HORIZONTAL	PASSED
7848.694	45.47	187.694	42.97	2.5	VERTICAL	PASSED
7853.805	45.17	181.322	42.71	2.46	HORIZONTAL	PASSED
7860.221	45.04	178.71	42.58	2.46	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
7822.445	31.92	39.437	29.39	2.53	HORIZONTAL	PASSED
7848.694	32.05	40.031	29.55	2.5	VERTICAL	PASSED
7853.805	32.09	40.239	29.63	2.46	HORIZONTAL	PASSED
7860.221	32.12	40.383	29.66	2.46	HORIZONTAL	PASSED

RX mode, 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
4962	41.98	125.589	43.63	-1.65	VERTICAL	PASSED
7438.3	44.07	159.845	41.93	2.14	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
4962	29.04	28.298	30.69	-1.65	VERTICAL	PASSED
7438.3	30.79	34.626	28.65	2.14	VERTICAL	PASSED

3.2. GSM850 + FM radio on 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
3477.3	38.08	80.168	43.72	-5.64	HORIZONTAL	PASSED
6955.4	46.86	220.166	46.42	0.44	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
3477.3	25.17	18.124	30.81	-5.64	HORIZONTAL	PASSED
6955.4	34.44	52.729	34	0.44	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
36.92	16.57	6.738	40.75	-24.18	VERTICAL	PASSED
40.017	11.99	3.976	37.4	-25.41	VERTICAL	PASSED
59.456	13.85	4.924	48.93	-35.08	VERTICAL	PASSED
60.52	12.75	4.342	47.88	-35.13	VERTICAL	PASSED
87.994	14.47	5.293	44.62	-30.15	VERTICAL	PASSED
88.32	13.8	4.896	43.89	-30.09	VERTICAL	PASSED
88.82	13.2	4.569	43.2	-30	VERTICAL	PASSED
148.613	16.21	6.465	44.86	-28.65	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
3527	38.46	83.714	43.85	-5.39	VERTICAL	PASSED
7054.3	43.17	143.963	42.42	0.75	HORIZONTAL	PASSED
7062.319	43.21	144.777	42.41	0.8	VERTICAL	PASSED
7850.607	45.38	185.802	42.93	2.45	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
3527	25.39	18.604	30.78	-5.39	VERTICAL	PASSED
7054.3	30.39	33.071	29.64	0.75	HORIZONTAL	PASSED
7062.319	30.51	33.524	29.71	0.8	VERTICAL	PASSED
7850.607	32.19	40.672	29.74	2.45	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
3575.9	38.16	80.928	43.58	-5.42	VERTICAL	PASSED
7150	44.08	159.937	42.8	1.28	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
3575.9	24.99	17.76	30.41	-5.42	VERTICAL	PASSED
7150	30.76	34.514	29.48	1.28	HORIZONTAL	PASSED

3.3. GSM1900 + FM radio on 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
3858.4	39.44	93.702	42.55	-3.11	HORIZONTAL	PASSED
7721.3	44.26	163.211	41.91	2.35	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
3858.4	26.4	20.883	29.51	-3.11	HORIZONTAL	PASSED
7721.3	31.72	38.543	29.37	2.35	VERTICAL	PASSED

RX mode, channel 661 / 1960 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
31.08	17.53	7.521	37.52	-19.99	HORIZONTAL	PASSED
31.26	17.57	7.563	37.65	-20.08	HORIZONTAL	PASSED
46.225	8.56	2.68	35.63	-27.07	HORIZONTAL	PASSED
54.971	8.76	2.742	43.1	-34.34	VERTICAL	PASSED
55.037	8.87	2.775	43.24	-34.37	VERTICAL	PASSED
55.516	4.8	1.738	36.58	-31.78	HORIZONTAL	PASSED
88.468	7.61	2.401	37.67	-30.06	VERTICAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
3921.8	39.03	89.433	42.41	-3.38	HORIZONTAL	PASSED
7071.141	43.56	150.643	42.8	0.76	VERTICAL	PASSED
7835.871	44.8	173.7	42.29	2.51	HORIZONTAL	PASSED
7840.7	45.06	179.081	42.54	2.52	VERTICAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
3921.8	26.11	20.212	29.49	-3.38	HORIZONTAL	PASSED
7071.141	30.48	33.431	29.72	0.76	VERTICAL	PASSED
7835.871	32.08	40.174	29.57	2.51	HORIZONTAL	PASSED
7840.7	32.09	40.211	29.57	2.52	VERTICAL	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
3979.5	39.8	97.735	42.93	-3.13	HORIZONTAL	PASSED
7961	45.29	183.865	42.67	2.62	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
3979.5	26.75	21.74	29.88	-3.13	HORIZONTAL	PASSED
7961	32.25	40.968	29.63	2.62	HORIZONTAL	PASSED

3.4. WCDMA 1700 (Band IV) + FM radio on Test results

RX mode, channel 1537 / 2112.4 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4225.6	39.29	92.193	43.18	-3.89	HORIZONTAL	PASSED
6336.3	45	177.807	46.04	-1.04	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
4225.6	26.34	20.756	30.23	-3.89	HORIZONTAL	PASSED
6336.3	31.99	39.783	33.03	-1.04	VERTICAL	PASSED

RX mode, channel 1637/ 2132.4 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
36.92	16.57	6.738	40.75	-24.18	VERTICAL	PASSED
40.017	11.99	3.976	37.4	-25.41	VERTICAL	PASSED
59.456	13.85	4.924	48.93	-35.08	VERTICAL	PASSED
60.52	12.75	4.342	47.88	-35.13	VERTICAL	PASSED
87.994	14.47	5.293	44.62	-30.15	VERTICAL	PASSED
88.32	13.8	4.896	43.89	-30.09	VERTICAL	PASSED
88.82	13.2	4.569	43.2	-30	VERTICAL	PASSED
148.613	16.21	6.465	44.86	-28.65	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
3527	38.46	83.714	43.85	-5.39	VERTICAL	PASSED
7054.3	43.17	143.963	42.42	0.75	HORIZONTAL	PASSED
7062.319	43.21	144.777	42.41	0.8	VERTICAL	PASSED
7850.607	45.38	185.802	42.93	2.45	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
3527	25.39	18.604	30.78	-5.39	VERTICAL	PASSED
7054.3	30.39	33.071	29.64	0.75	HORIZONTAL	PASSED
7062.319	30.51	33.524	29.71	0.8	VERTICAL	PASSED
7850.607	32.19	40.672	29.74	2.45	HORIZONTAL	PASSED

RX mode, channel 1738 / 2152.6 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
4304.8	39.33	92.587	43.45	-4.12	HORIZONTAL	PASSED
6459.2	45.66	191.845	46.8	-1.14	VERTICAL	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
4304.8	25.9	19.724	30.02	-4.12	HORIZONTAL	PASSED
6459.2	32.69	43.087	33.83	-1.14	VERTICAL	PASSED

4. Test Equipment

4.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM38112	Power supply	6632A	Agilent	22/24/27, 15C
TM38631	Signal Generator	83640L	Agilent	22/24/27, 15C, 15B
OM06312	Signal Generator	E4422B	Agilent	22/24
TM37678	Communication Tester	CMU200	R&S	15C, 15B
TM30600	Impulse limiter	ESH3-Z2	R&S	15C, 15B
TM26490	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
TM26491	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
TM37610	Spectrum Analyzer	FSU26	R&S	22/24/27, 15C
TM22806	Battery	BAT 20/E	Fiskars	15C, 15B
TM22805	UPS	PS 20/1.2	Fiskars	15C, 15B
-	Temperature and humidity logger	175-H2	Testo	15C, 15B
-	Temperature and humidity logger	175-H2	Testo	22/24/27, 15C
-	Air pressure and temperature logger	635-2	Testo	22/24/27, 15C, 15B
-	Air pressure sensor	0638-1835	Testo	22/24/27, 15C, 15B
-	Temperature test chamber	VT 4002	Vötsch	22/24
2058	Receiver	ESPC	R&S	15C, 15B
2001	Bluetooth tester	CBT	R&S	22/24/27, 15C, 15B
2002	Communication Tester	CMU200	R&S	22/24/27, 15C
2009	LISN 50 µH	ENV216	R&S	15C, 15B
2010	LISN 50 µH	ENV216	R&S	15C, 15B
2012	Power splitter	11667B	Agilent	22/24/27, 15C
2013	Attenuator	8493C	Agilent	22/24/27, 15C
2014	Attenuator	8493C	Agilent	22/24/27, 15C
2019	Power splitter	ZN2PD-9G-S+	Mini-Circuits	15E
2020	Power splitter	ZN2PD-9G-S+	Mini-Circuits	15E
2023	Spectrum Analyzer	ESMI-RF	R&S	15B/15C
2024	Analyzer display unit	ESAI-D	R&S	15B/15C

4.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM38114	Power supply	6632A	Agilent	22/24/27, 15C, 15B
TM38631	Signal Generator	83640L	Agilent	22/24/27, 15C, 15B
TM38323	Preamplifier	PA-02 18-26 GHz	EMC Automation	22/24/27, 15C, 15B
-	Antenna	BBHA 9120 D	Schwarzbeck	22/24/27, 15C
TM26497	Antenna	3115	Emco	22/24/27, 15C, 15B
TM37773	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
TM38845	Receiver	ESIB 26	R&S	22/24/27, 15C, 15B
-	Antenna	HL562	R&S	22/24/27, 15C, 15B
-	Turntable	2188	EMCO	22/24/27, 15C, 15B
-	Turntable controller	2090	EMCO	22/24/27, 15C, 15B
-	RF system panel	TS-RSP	R&S	22/24/27, 15C, 15B
-	RF system panel	TS-RSP	R&S	22/24/27, 15C, 15B
-	Mini mast	2075-2	ETS Lindgren	22/24/27, 15C, 15B
TM38843	Mini mast	2075	Emco	22/24/27, 15C, 15B
TM38842	Antenna mast controller	2090	Emco	22/24/27, 15C, 15B
TM30643	LISN 50 µH	LISN-5-20-2	FCC	22/24/27, 15C, 15B
TM30644	LISN 50 µH	LISN-5-20-2	FCC	22/24/27, 15C, 15B
-	Temperature and humidity logger	175-H2	Testo	22/24/27, 15C, 15B
-	Air pressure and temperature logger	635-2	Testo	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
-	Air pressure sensor	0638-1835	Testo	22/24/27, 15C, 15B
TM39180	Laser distance meter	Disto Pro	Leica	22/24/27, 15C, 15B
TM37523	Preamplifier	AMF-4D-10M-3G-25-20P	Miteq	22/24/27, 15C, 15B
TM37498	Preamplifier	AMF-5D-020180-26-10P	Miteq	22/24/27, 15C, 15B
TM30599	Semi anechoic chambre	UNKNOWN	TDK	22/24/27, 15C, 15B
TM22638	Power supply	OL63743-901	-	22/24/27, 15C, 15B
TM38066	High pass filter	4HC3000/18000-3-KK	Trilithic	22/24/27, 15C, 15B
-	High pass filter	WHKX 1.6/15G-12SS	Wainwright	22/24/27, 15C, 15B
TM37545	Tunable notch filter	800.0/960.0-0.2/40-8SSK	Wainwright	22
TM26512	Tunable notch filter	WRCD1850/1910-0.2/40-10SSK	Wainwright	24
-	Band reject filter	WRCG1877/1883-1870/1890-40/6EE	Wainwright	24
-	Band reject filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
-	Band reject filter	WRCG832/838-825/848-40/5SS	Wainwright	22
TM23892	Controller	G-1000SDX	Yaesu	22/24/27
2001	Bluetooth tester	CBT	R&S	22/24/27, 15C, 15B
6023	Antenna	VUBA 9117	Schwarzbeck	22/24/27, 15C