

FCC Part 15B Compliance Test Report

Test Report no.:	Cph_FCC_0643_05.doc	Date of Report:	11-01-2007
Number of pages:	14	Customer's Contact person:	Ari Havela
Testing laboratory:	TCC Nokia Copenhagen Laboratory Frederikskaj 1790 COPENHAGEN V DENMARK Tel. +45 33 292929 Fax. +45 33 292934	Customer:	Nokia Corporation P.O. Box 86 Joensuunkatu 7 FIN-24101 SALO, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 44277
FCC listing no.:	99059		
IC recognition no.:	4820 and 4820-1		
Tested devices/ accessories:	Phone; RM-216 (HW: 0400), Battery; BL-4C, AC-Charger; AC-3E, Data Cable; CA-53		
FCC ID:	PYARM-216V	IC:	661V-RM216V
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, RSS-133 and RSS-210. 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:			

Allan F. Henriksen, Engineer

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	16-10-2006
Testing completed	10-11-2006
The customer's contact person	Ari Havela
Test Plan referred to	\\EMC\\TESTPLAN\\
Notes	None
Document name	T:\\Projects\\RM-216\\EMC\\Results\\FCC\\Cph_FCC_0643_05.doc

1.1. EUT and Accessory Information

The EUT is a 4-band (GSM850/900/1800/1900) mobile phone with GPRS, EGPRS and Bluetooth. GSM bands are tested in idle mode. Bluetooth is tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-216	004400/92/171228/5	0400	-	Vp 02.00	27813
Phone	RM-216	004400/92/171217/8	0400	-	Vp 02.00	27830
Data Cable	CA-53	EM2008882A	-	-	-	27806
Data Cable	CA-53	108882607250	-	-	-	29067
AC-Charger	AC-3E	1103336192171308343;0675370	-	-	-	27811
AC-Charger	AC-3E	1103336192171308325;0675370	-	-	-	29090
Battery	BL-4C	0670386417535N073B11154785	-	-	-	27812
Battery	BL-4C	0670386417535N073B11156812	-	-	-	27928

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 Copenhagen Laboratory.

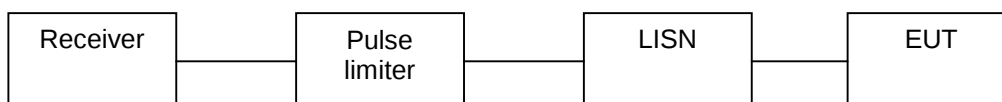
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2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-216 Dut # 27813
Accessories with DUT numbers	BL-4C Dut # 27812 + AC-3E Dut # 27811 + CA-53 Dut # 27806
Operation Voltage [V] / [Hz]	215 / 60
Result	Passed
Remarks	Continuous data transfer was active between the phone and the computer during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [mBar]	22.5 / 46.0 1008
Date of measurements	26-10-2006
Measured by	Allan F. Henriksen

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:

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

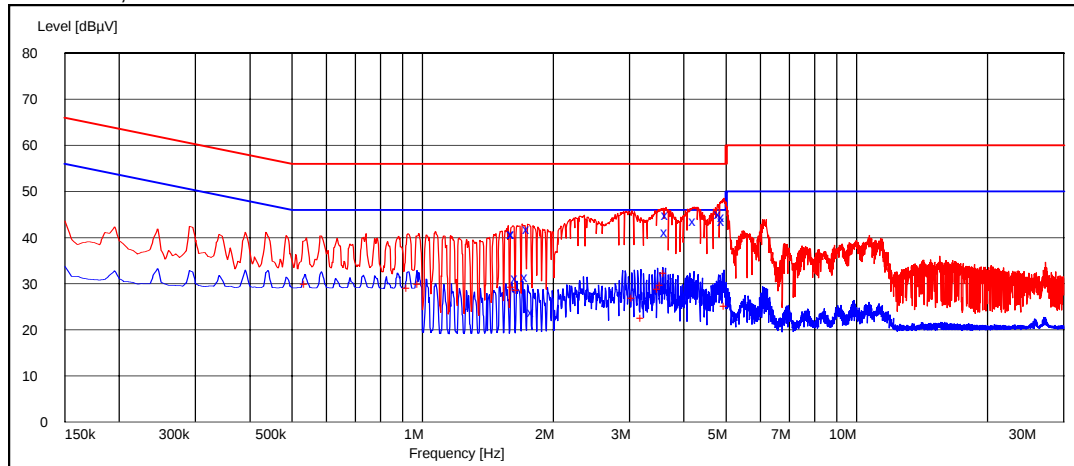
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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)

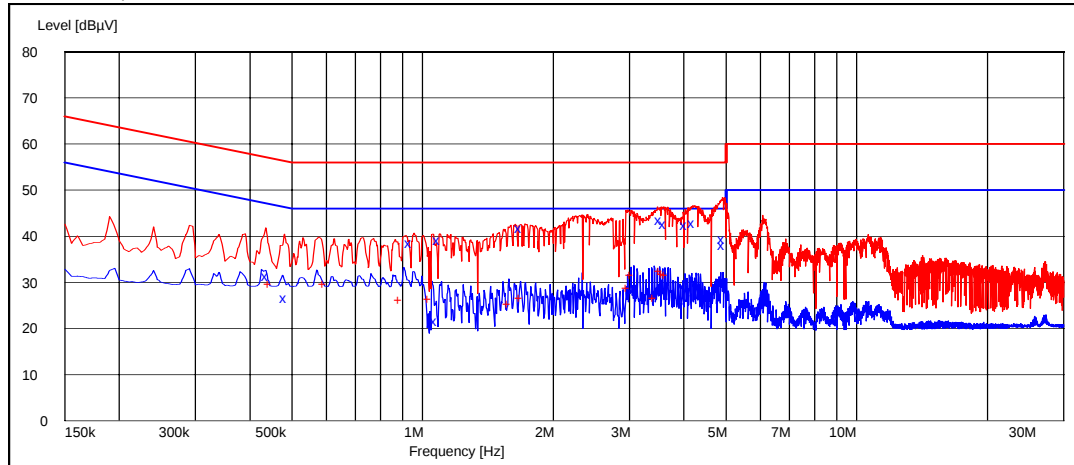
Frequency [MHz]	U [dBμV]	Line	Result
1.620000	40.70	N	Passed
1.625000	40.70	N	Passed
1.655000	31.20	N	Passed
1.745000	31.50	L1	Passed
1.760000	41.80	N	Passed
1.800000	23.80	N	Passed
3.660000	41.20	N	Passed
3.670000	44.80	N	Passed
4.260000	43.50	N	Passed
4.870000	45.00	N	Passed
4.945000	44.40	N	Passed
4.950000	43.60	N	Passed

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.540000	29.90	N	Passed
0.930000	29.10	N	Passed
0.985000	30.00	N	Passed
1.620000	29.20	N	Passed
1.665000	28.60	N	Passed
3.070000	26.90	N	Passed
3.215000	22.60	N	Passed
3.520000	28.90	N	Passed
3.570000	29.80	N	Passed
3.625000	32.20	N	Passed
5.000000	25.20	N	Passed

2.4. GSM 1900 Test results

RX mode, channel 661 / 1960.0 MHz



Quasi peak (RBW: 9 kHz)

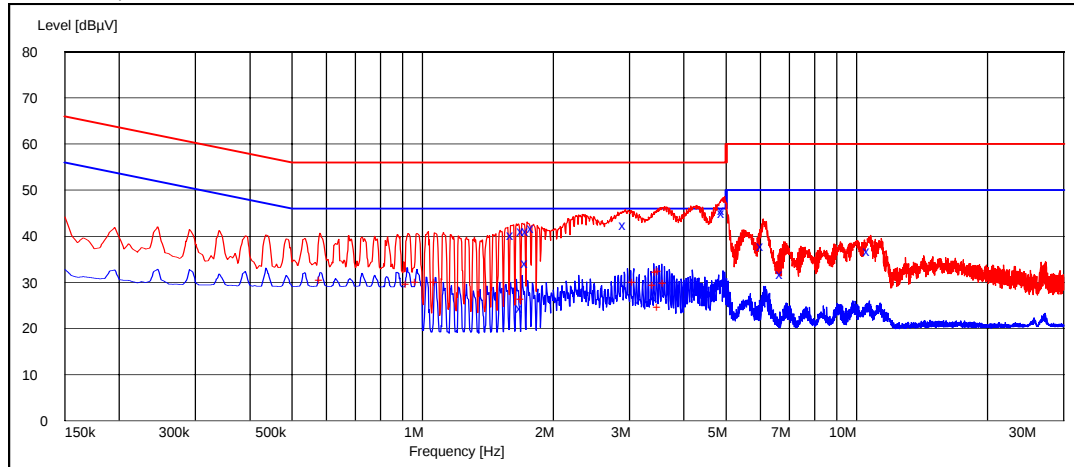
Frequency [MHz]	U [dBμV]	Line	Result
0.440000	31.30	N	Passed
0.485000	26.60	L1	Passed
0.940000	38.60	N	Passed
1.075000	21.60	L1	Passed
1.095000	39.10	N	Passed
1.685000	41.70	N	Passed
3.550000	43.60	N	Passed
3.630000	42.70	N	Passed
4.050000	42.40	N	Passed
4.220000	42.90	N	Passed
4.945000	38.00	L1	Passed
4.950000	39.30	L1	Passed

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.445000	29.60	N	Passed
0.595000	29.60	N	Passed
0.890000	26.20	N	Passed
1.040000	26.30	N	Passed
1.585000	25.20	N	Passed
1.685000	26.60	N	Passed
2.975000	28.70	N	Passed
3.030000	31.60	N	Passed
3.430000	26.70	N	Passed
3.540000	32.40	N	Passed
3.590000	31.80	N	Passed
3.640000	31.50	N	Passed

2.5. Bluetooth Test results

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.615000	40.30	N	Passed
1.695000	24.50	L1	Passed
1.705000	41.10	N	Passed
1.745000	34.20	L1	Passed
1.750000	41.20	N	Passed
1.800000	41.70	N	Passed
2.930000	42.40	N	Passed
4.950000	45.60	N	Passed
4.955000	45.00	N	Passed
6.095000	37.80	N	Passed
6.750000	31.90	N	Passed
10.710000	36.70	N	Passed

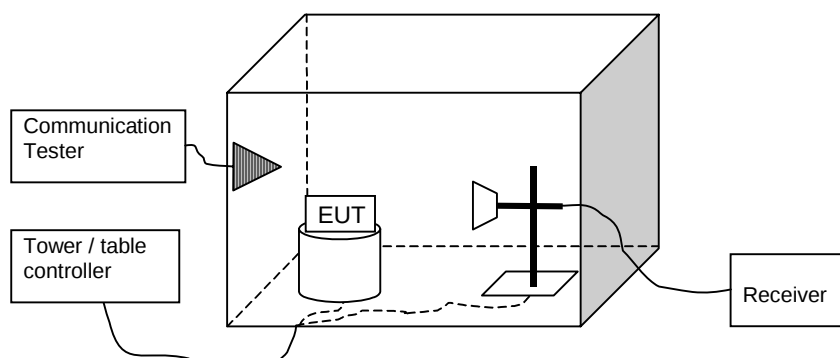
Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.585000	30.50	N	Passed
0.925000	29.70	N	Passed
0.975000	30.10	N	Passed
1.075000	30.20	N	Passed
1.700000	26.50	N	Passed
3.080000	30.10	N	Passed
3.425000	29.40	N	Passed
3.475000	32.20	N	Passed
3.515000	24.70	N	Passed
3.525000	32.50	N	Passed
3.620000	29.80	N	Passed

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

EUT with DUT number	RM-216 Dut#27830
Accessories with DUT numbers	BL-4C Dut#27928, AC-3E Dut#29090, CA-53 Dut#29067
Operation Voltage [V] / [Hz]	230 / 50
Result	Passed
Remarks	None
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 43 / 1020
Date of measurements	10-11-2006
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:

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

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$).

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	41.50	118.85	45.90	-4.40	VERTICAL	Passed
6953.600000	47.90	248.31	45.10	2.80	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	26.80	21.88	31.20	-4.40	VERTICAL	Passed
6953.600000	32.50	42.17	29.70	2.80	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
36.852505	30.50	33.50	47.80	-17.30	VERTICAL	Passed
530.060120	22.90	13.96	40.30	-17.40	VERTICAL	Passed
665.530661	25.80	19.50	40.70	-14.90	VERTICAL	Passed
797.797194	35.60	60.26	48.80	-13.20	HORIZONTAL	Passed
839.479359	17.90	7.85	30.50	-12.60	VERTICAL	Passed
881.563527	59.20	912.01	71.30	-12.10	VERTICAL	Passed

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

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3526.552104	41.70	121.62	46.10	-4.40	VERTICAL	Passed
7052.604208	47.20	229.09	44.30	2.90	VERTICAL	Passed
7840.679359	42.40	131.83	36.40	6.00	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1097.186373	22.40	13.18	31.70	-9.30	VERTICAL	Passed
2908.311623	34.00	50.12	30.40	3.60	HORIZONTAL	Passed
3526.552104	26.60	21.38	31.00	-4.40	VERTICAL	Passed
7052.604208	32.00	39.81	29.10	2.90	VERTICAL	Passed
7837.179359	29.40	29.51	23.50	5.90	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	42.00	125.89	45.90	-3.90	HORIZONTAL	Passed
7150.400000	48.30	260.02	44.30	4.00	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	27.30	23.17	31.20	-3.90	HORIZONTAL	Passed
7150.400000	32.30	41.21	28.30	4.00	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	46.70	216.27	49.40	-2.70	VERTICAL	Passed
7720.000000	45.20	181.97	40.00	5.20	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	29.70	30.55	32.40	-2.70	VERTICAL	Passed
7720.000000	28.10	25.41	22.90	5.20	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
31.000000	34.60	53.70	48.10	-13.50	VERTICAL	Passed
53.145691	23.00	14.13	51.50	-28.50	VERTICAL	Passed
399.498798	25.60	19.05	45.80	-20.20	HORIZONTAL	Passed
531.564128	28.00	25.12	45.40	-17.40	VERTICAL	Passed
665.732665	26.40	20.89	41.30	-14.90	HORIZONTAL	Passed
797.095190	33.60	47.86	46.80	-13.20	HORIZONTAL	Passed

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1959.919840	60.30	1035.14	63.40	-3.10	VERTICAL	Passed
3919.839679	45.20	181.97	48.20	-3.00	VERTICAL	Passed
7840.179359	48.30	260.02	42.30	6.00	VERTICAL	Passed
7840.181363	42.90	139.64	36.90	6.00	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
1093.186373	34.80	54.95	44.10	-9.30	VERTICAL	Passed
1959.919840	59.10	901.57	62.20	-3.10	VERTICAL	Passed
2907.309619	34.00	50.12	30.40	3.60	VERTICAL	Passed
3919.839679	30.00	31.62	33.00	-3.00	VERTICAL	Passed
7840.179359	33.20	45.71	27.20	6.00	VERTICAL	Passed
7840.181363	33.20	45.71	27.20	6.00	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	43.80	154.88	46.60	-2.80	VERTICAL	Passed
7960.000000	46.10	201.84	40.80	5.30	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3980.000000	28.00	25.12	30.80	-2.80	VERTICAL	Passed
7960.000000	28.60	26.92	23.30	5.30	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	36.00	63.10	38.00	-2.00	VERTICAL	Passed
7206.000000	39.60	95.50	35.40	4.20	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	23.50	14.96	25.50	-2.00	VERTICAL	Passed
7206.000000	26.70	21.63	22.50	4.20	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
37.595391	36.00	63.10	53.70	-17.70	VERTICAL	Passed
133.125852	20.60	10.72	46.80	-26.20	VERTICAL	Passed
150.000000	39.10	90.16	66.00	-26.90	HORIZONTAL	Passed
162.024048	31.90	39.36	58.80	-26.90	HORIZONTAL	Passed
399.900401	21.80	12.30	41.70	-19.90	VERTICAL	Passed

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
7335.667335	40.60	107.15	36.10	4.50	VERTICAL	Passed
7412.825651	41.90	124.45	36.80	5.10	VERTICAL	Passed
7419.837675	42.10	127.35	37.20	4.90	VERTICAL	Passed
17867.741483	58.30	822.24	33.00	25.30	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
7331.667335	27.80	24.55	23.40	4.40	VERTICAL	Passed
7411.825651	28.40	26.30	23.20	5.20	VERTICAL	Passed
7419.337675	28.70	27.23	23.80	4.90	VERTICAL	Passed
17870.741483	44.90	175.79	19.50	25.40	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	37.40	74.13	39.00	-1.60	VERTICAL	Passed
7440.000000	40.50	105.93	35.60	4.90	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	24.40	16.60	26.00	-1.60	VERTICAL	Passed
7440.000000	27.90	24.83	23.00	4.90	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, 15C, 15B
19678	Spectrum Analyzer 26 GHz	FSP	Rohde&Schwarz	22/24, 15C, 15B
16601	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	22/24, 15C, 15B
19625	Vötsch Climatic Chamber	VT4002EMC	Vötsch	22/24, 15C, 15B
13357	Rohde & Schwartz Signal Generator	SMP02	Rohde&Schwarz	22/24, 15C, 15B

4.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
18416	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	22/24, 15C, 15B
	Programmable Relay Switching System	-----	Pickering	22/24, 15C, 15B
15742	Programmable Relay Switching System	-----	Pickering	22/24, 15C, 15B
14020	Power Supply Module Relay Switching System 45W	10-910-002	Pickering	22/24, 15C, 15B
15743	Power Supply Module Relay Switching System 50W	10-910L-001	Pickering	22/24, 15C, 15B
16490	RS-232/IEEE-488.2 Interface	10-921-001	Pickering	22/24, 15C, 15B
	RS-232/IEEE-488.2 Interface	10-921-001	Pickering	22/24, 15C, 15B
20078	Relay 2x6 Chnl μ Wave Mux	10-785B-522	Pickering	22/24, 15C, 15B
14021	Relay Dual 6 Chnl μ Wave Mux	10-785-522		22/24, 15C, 15B
	Relay Dual 6 Chnl μ Wave Mux	10-785-522		22/24, 15C, 15B
17644	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24, 15C, 15B
16948	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24, 15C, 15B
16949	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24, 15C, 15B
18792	Multi Device Controller	2090	ETS-EMCO	22/24, 15C, 15B
14963	RF Preampifier 100MHz-4GHz (Metal Chassis)	AFS3-00100400	Miteq/NMP Cph	22/24, 15C, 15B
18861	EMI Test Receiver 20Hz-26,5GHz	ESI	Rohde&Schwarz	22/24, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
18860	Ultra Broadband Antenna Ultralog 30-3000MHz	HL562	Rohde&Schwarz	22/24, 15C, 15B
19830	Ultra Broadband Antenna Ultralog 30-3000MHz	HL562	Rohde&Schwarz	22/24, 15C, 15B
18773	Shielded Chamber	RFD-100	ETS-Lindgren	22/24, 15C, 15B
18774	Shielded Chamber	RFSD-F/A-100	ETS-Lindgren	22/24, 15C, 15B
19151	High Pass Filter 3GHz WHK3.0/18G-10ss	WHJS3000-10SS	Wainwright	22/24, 15C, 15B
13937	Ultra Stable Notch Filter 850MHz	WRCA902.4-0.2/40-6SS	Wainwright Instruments	22/24, 15C, 15B
13936	Ultra Stable Notch Filter 1747,5MHz	WRCD1747.5-0.2/40- 10SS	Wainwright Instruments	22/24, 15C, 15B
13917	Highpass Filter 1000-3000MHz 50OHM SMA Conn	WHKS1000-10SS	Wainwright Instruments	22/24, 15C, 15B
14188	Ultra Stable Notch Filter 902,4MHz	WRCA902.4-0.2/40-6SS	Wainwright	22/24, 15C, 15B
14187	Ultra Stable Notch Filter 1747,5MHz	WRCD1747.5-0.2/40- 10SS	Wainwright	22/24, 15C, 15B
16633	Ultra Stable Notch Filter 1880,0MHz	WRCD1880.0-0.2/40- 10SS	Wainwright	22/24, 15C, 15B
19587	BT/WLAN Band Reject Filter	WRCG2400/2483- 2390/2493-35/10SS	Wainwright	22/24, 15C, 15B
	WDCMA Band 4 filter	WRCG1737/1743- 1733/1747-40/6SS	Wainwright	22/24, 15C, 15B
	WDCMA Band 5&6 filter	WRCG832/83/-825/845- 40/5SS	Wainwright	22/24, 15C, 15B
	WDCMA Band 8 filter	WRCG894.6/900.6- 890.6/904.6-40/80SS	Wainwright	22/24, 15C, 15B
18323	Band reject filter 1947-1953MHz 40dB	WRCG1947/1953- 1940/1960-40/6SS	Wainwright	22/24, 15C, 15B
20031	Double Ridged Broadband Horn	BBHA 9120 D	SCHWARZBECK	22/24, 15C, 15B
15190	Infra Red Remote Control Unit	4630	Emco	22/24, 15C, 15B
14993	EMI Test Receiver 9KHz- 2750MHz	ESCS30	Rohde&Schwarz	22/24, 15C, 15B
15191	Turntable Contoller Unit	G-800SDX	YAESU	22/24, 15C, 15B
14900	Antenna Controller	HD100	HD GmbH	22/24, 15C, 15B
15105	Attenuator 30dB DC-1000MHz 50 Ohm Nf - Nm	NAT-30	Mini-Circuits	22/24, 15C, 15B
13302	Spectrum Analyzer 9KHz- 12.8GHz	HP8596E	Hewlett Packard	22/24, 15C, 15B
11584	Spectrum analyzer 50Hz- 6,5GHz	HP8561B	Hewlett Packard	22/24, 15C, 15B
13134	Tracking generator	HP85645A	Hewlett Packard	22/24, 15C, 15B
19374	Resonant Dipole Antenna 850MHz SMA m Conn.	-----	NMP Cph	22/24, 15C, 15B
19375	Resonant Dipole Antenna 1900MHz SMA m Conn.	-----	NMP Cph	22/24, 15C, 15B
11487	Network analyzer 300KHz- 3,0GHz	HP8753A	Hewlett Packard	22/24, 15C, 15B
14807	S - Parameter Test Set 300KHz- 6GHz	HP85047A	Hewlett Packard	22/24, 15C, 15B
17277	Multimeter Digital 6 1/2 Digit	AT34401A	Agilent Technologies	22/24, 15C, 15B