



TEST REPORT

of the accredited test laboratory

TÜV Nr.:M/FG-15/154

Applicant: imagotag GmbH
St. Peter Gürtel 10b
A – 8042 Graz

Tested Product: Networking transceiver Model: R22

FCC-ID: 2ACQM-E00004

IC-ID: 12154A-E00004

Manufacturer: imagotag GmbH
St. Peter Gürtel 10b
A – 8042 Graz

Output power / 1,7 mW eirp peak **power supply:** 3 VDC
field strength: via internal bat.

Frequency range: 2404 - 2479,25 MHz **Channel separation:** 0,35 MHz

Standard: FCC: 47 CFR Part 15 (October 1, 2014 edition)
RSS-210 Issue 8, December 2010

TÜV AUSTRIA SERVICES GMBH
Test laboratory for EMC

Supervisor of EMC-laboratory:

Ing. Wilhelm Seier



14.09.2015

Copy Nbr.:

checked by:

Ing. Michael Emminger

A publication of this test report is only permitted literally.

Copying or reproduction of partial sections needs a written permission of TÜV AUSTRIA
SERVICES GMBH.

The results of this test report only refer to the provided equipment.

LIST OF MEASUREMENTS

The complete list of measurements called for in 47 CFR 15 and RSS-210 is given below.

SUBCLAUSE	PARAMETER TO BE MEASURED	PAGE
	Intentional Radiators	
	Test object data	3
2.1033	Number of channels and channel spacing	4
15.249 (e) A 2.9	Duty Cycle for averaging	5
15.249 (a) (c) A 2.9	Field strength at 2400 – 2483,5 MHz	6-8
15.249 (d) (e) A 2.9	Emissions outside 2400 – 2483,5 MHz (15.209)	9-14

TEST OBJECT DATA

General EUT Description

This transceiver is working in a network consisting of a controller station, so called Accesspoint, and various displays. The Accesspoint transmits information to the displays and receives acknowledgements.

This device is a display operating in the network system. The device can be equipped with a passive RFID TAG. As this tag will be placed far away from the transceiver electronics, no additional measurements were performed.

2.1033 (c) Technical description

2.1033 (4) Type of emission: Phase shift keying – declared channel bandwidth 542 kHz –
'virtual' channel spacing 0,35 MHz. Only 11 channels from the channel plan are used, therefore the channel spacing in reality is much higher and varies from 2,45 MHz minimum up to 17,15 MHz.

2.1033 (5) Frequency range: 2404 – 2479,25 MHz (channel center frequencies of channel 0 up to ch. 10)

2.1033 (6) Power range and Controls: The maximum eirp measured is 1,7mW. There is no power control or regulation.

2.1033 (7) Maximum output power rating: 1,7 mW eirp peak.

2.1033 (8) DC Voltage and Current: 3V internal battery
maximum current consumption: 28,0 mA during continuous transmission

RSS-135 This standard does not apply to:

- 1.1.(a) a receiver that scans radio frequencies for the purpose of enabling its associated transmitter to avoid transmitting in an occupied frequency but which does not have the capability of decoding the message (e.g. converting it to audio voice) contained in the radio signal

Number of channels and channel spacing

§ 2.1033

Channel plan:

Channel Number	Center frequency (MHz)	Channel spacing (MHz)
0	2404	5,95
1	2409,95	11,9
2	2421,85	2,8
3	2424,65	17,15
4	2441,8	7,35
5	2449,15	12,6
6	2461,75	7,7
7	2469,45	4,9
8	2474,35	2,45
9	2476,8	2,45
10	2479,25	

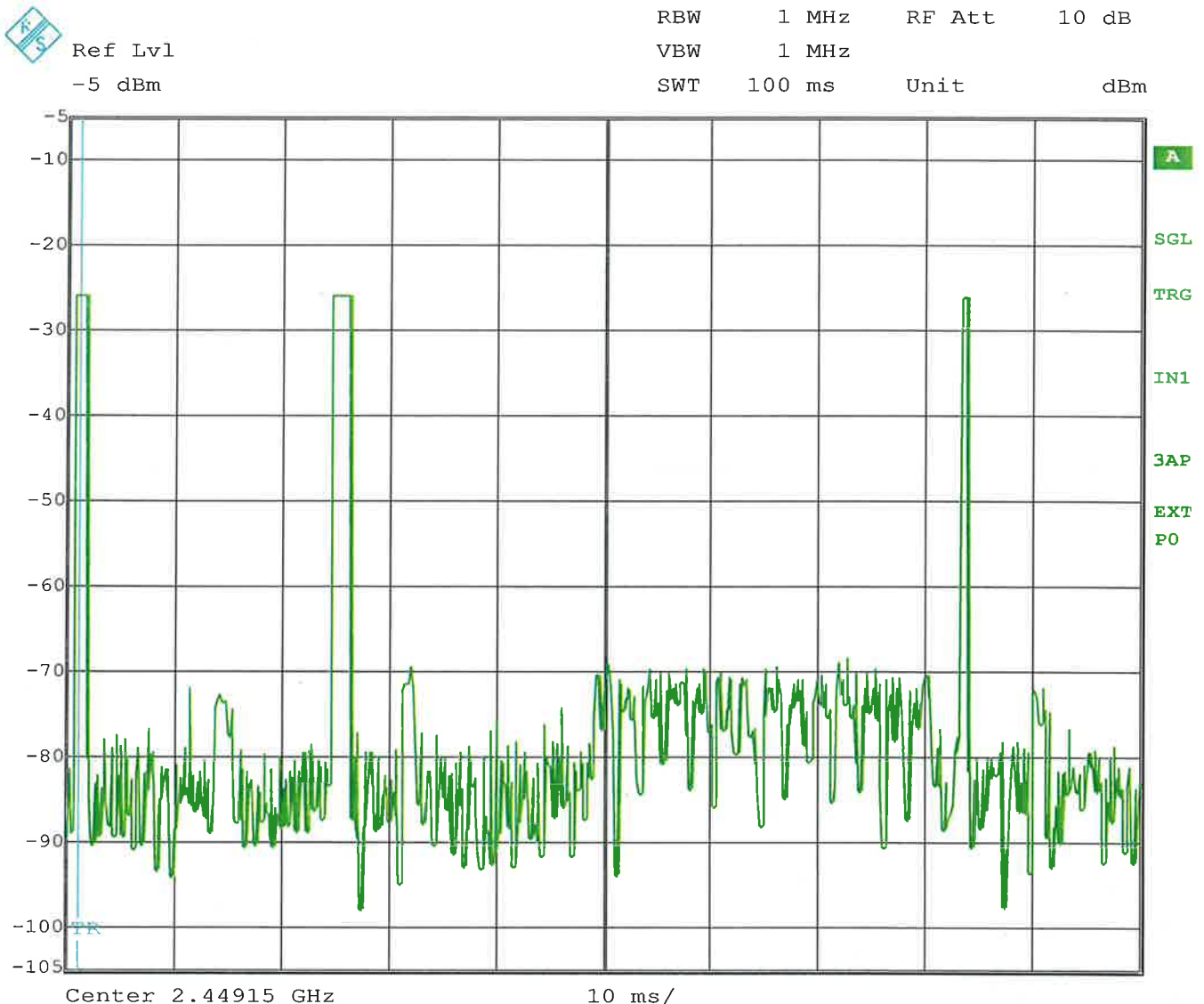
Tests were performed on channels 0, 4 and 10.

Test Equipment used: N/A

Duty Cycle measurements for averaging

§ 15.249 (e)

Mode: start of data reception (handshaking gives worst case in 100ms)



Date: 14.SEP.2015 08:00:36

According to the timing protocol description provided by the manufacturer and attached as technical description to the application for certification, the transmission burst time was checked to not exceed the declared value. The declared value was taken for calculation, as that gives the worst case. Transmission bursts of 1,48ms length occurring twice in 100ms with another handshaking burst of 1,97ms length give a duty cycle of 4,93% or an average factor of -26,1 dB.

LIMIT SUBCLAUSE 15.249(e)

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-151; NT-207; NT-337

Field strength of emissions at 2400 – 2483,5 MHz

§ 15.249 (a) (c)

Operating on CH 0 (2404 MHz)

The maximum peak value measured was 100,6 dBµV/m = 107,2 mV/m at 3m distance.

With the averaging factor calculated on page 5 of this test report of -26,1 dB the maximum average value is then 74,5 dBµV/m = 5,31 mV/m at 3m distance.

LIMIT SUBCLAUSE 15.249(a) (c)

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(c) Field strength limits are specified at a distance of 3 meters.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-151; NT-207; NT-337

Field strength of emissions at 2400 – 2483,5 MHz

§ 15.249 (a) (c)

Operating on CH 4 (2441,8 MHz)

The maximum peak value measured was 96,7 dBµV/m = 68,4 mV/m at 3m distance.

With the averaging factor calculated on page 5 of this test report of -26,1 dB the maximum average value is then 70,6 dBµV/m = 3,39 mV/m at 3m distance.

LIMIT SUBCLAUSE 15.249(a) (c)

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(c) Field strength limits are specified at a distance of 3 meters.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-151; NT-207; NT-337

Field strength of emissions at 2400 – 2483,5 MHz

§ 15.249 (a) (c)

Operating on CH 10 (2479,25 MHz)

The maximum peak value measured was 101,6 dB μ V/m = 120,2 mV/m at 3m distance.

With the averaging factor calculated on page 5 of this test report of -26,1 dB the maximum average value is then 75,5 dB μ V/m = 5,96 mV/m at 3m distance.

LIMIT SUBCLAUSE 15.249(a) (c)

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

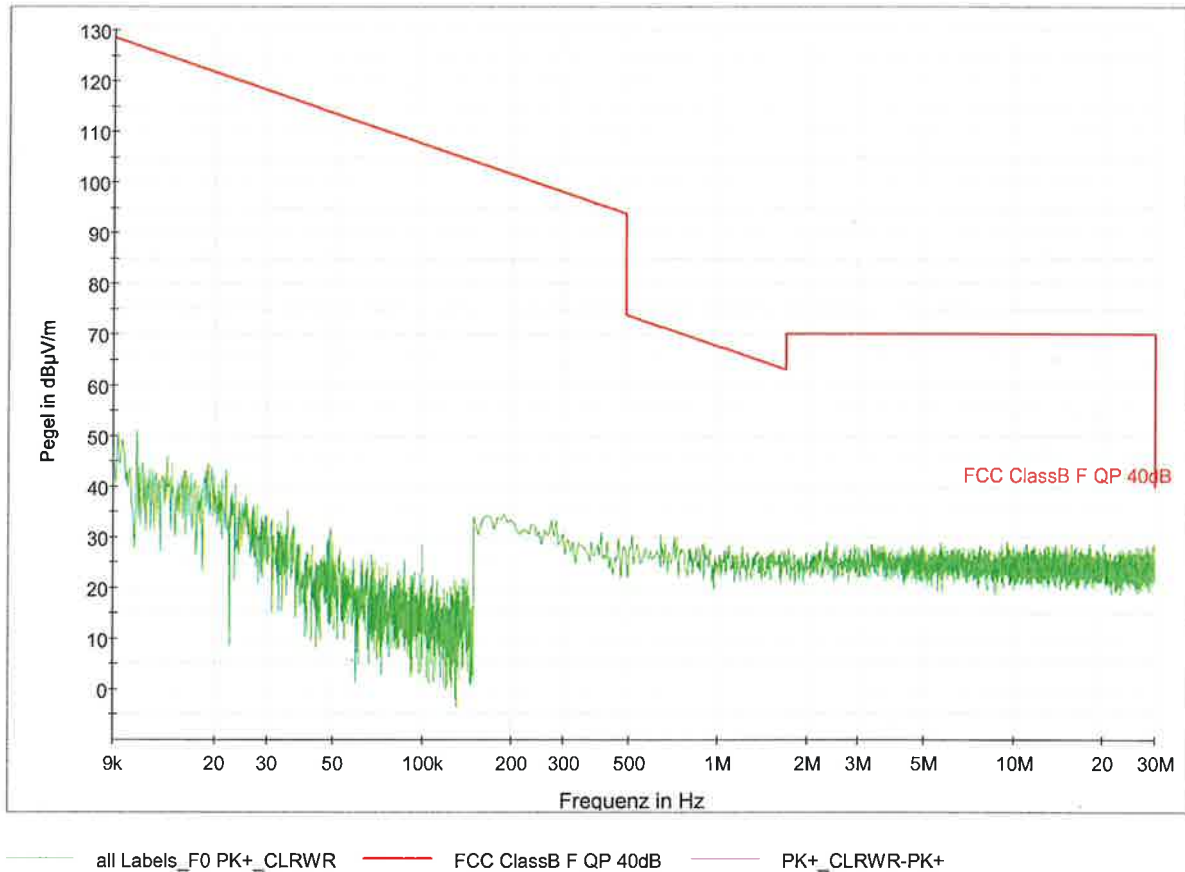
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(c) Field strength limits are specified at a distance of 3 meters.

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-151; NT-207; NT-337

Emissions outside 2400 – 2483,5 MHz
Channel 0 (2404 MHz)

§ 15.249 (d) (e)



LIMIT

SUBCLAUSE 15.249(d) (e) (15.209)

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

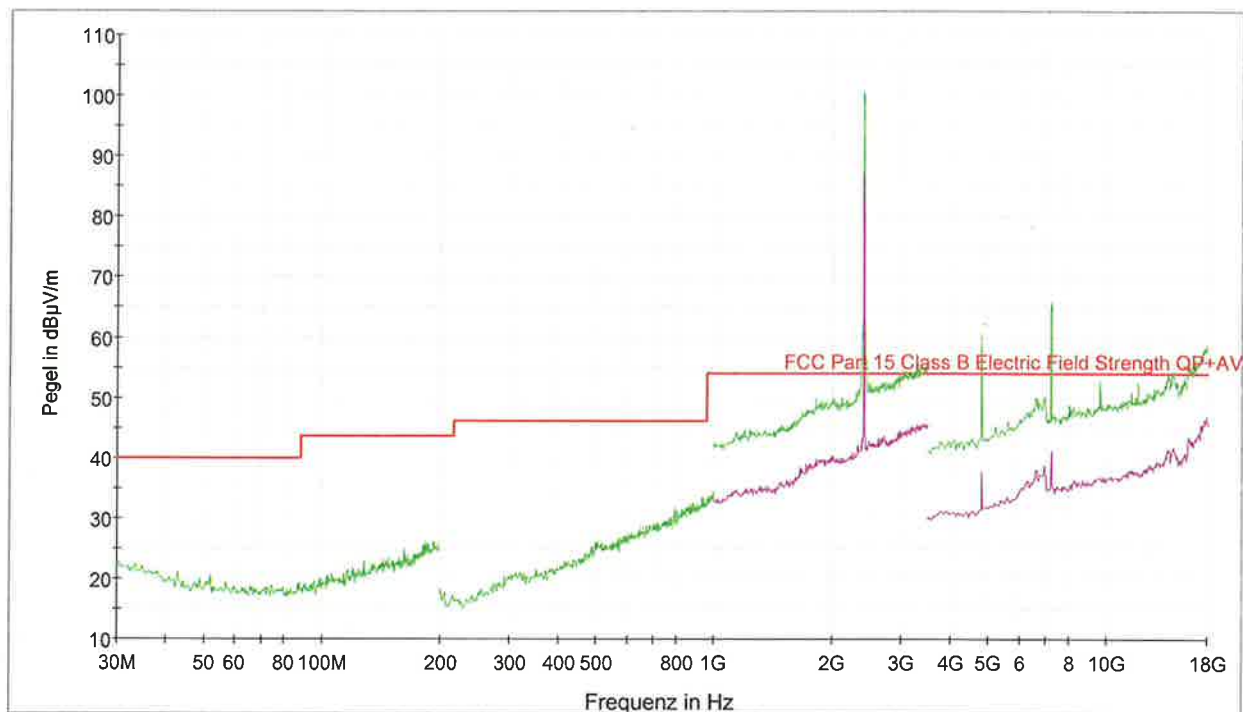
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-151; NT-207

Emissions outside 2400 – 2483,5 MHz

§ 15.249 (d) (e)

Channel 0 (2404 MHz) – average values above 1 GHz are shown in magenta – green = peak



- FCC Part 15 Class B Electric Field Strength QP+AV [FCC Part 15 Class B Electric Field Strength QP+AV.LimitLine:1]
- PK+_MAXH [2.2red_CH0_F1.Result:2]
- PK+_MAXH [2.2red_CH0_F2.Result:2]
- PK+_MAXH [2.2red_CH0_F3.Result:2]
- AVG_MAXH [2.2red_CH0_F3.Result:4]
- PK+_MAXH [2.2red_CH0_F4.Result:2]
- AVG_MAXH [2.2red_CH0_F4.Result:4]

LIMIT

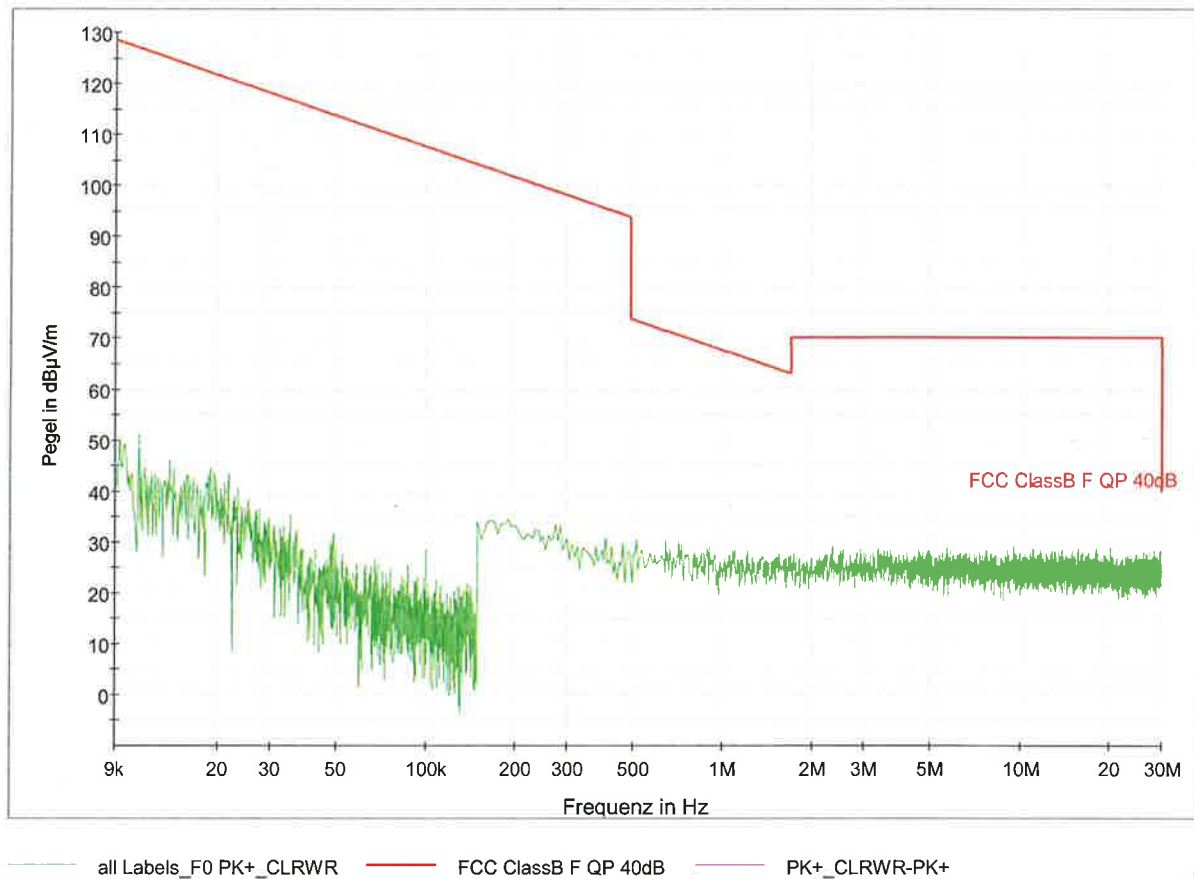
see page 9

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-129; NT-131; NT-207

Remark: Although the measurements were made up to the 10th harmonic (25 GHz) the frequency range above 18 GHz is not automatized, so no graphs are available. Nevertheless no emissions above noise level were found in the frequency range above 18 GHz.

Emissions outside 2400 – 2483,5 MHz
Channel 4 (2444.9 MHz)

§ 15.249 (d) (e)



LIMIT SUBCLAUSE 15.249(d) (e) (15.209)

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

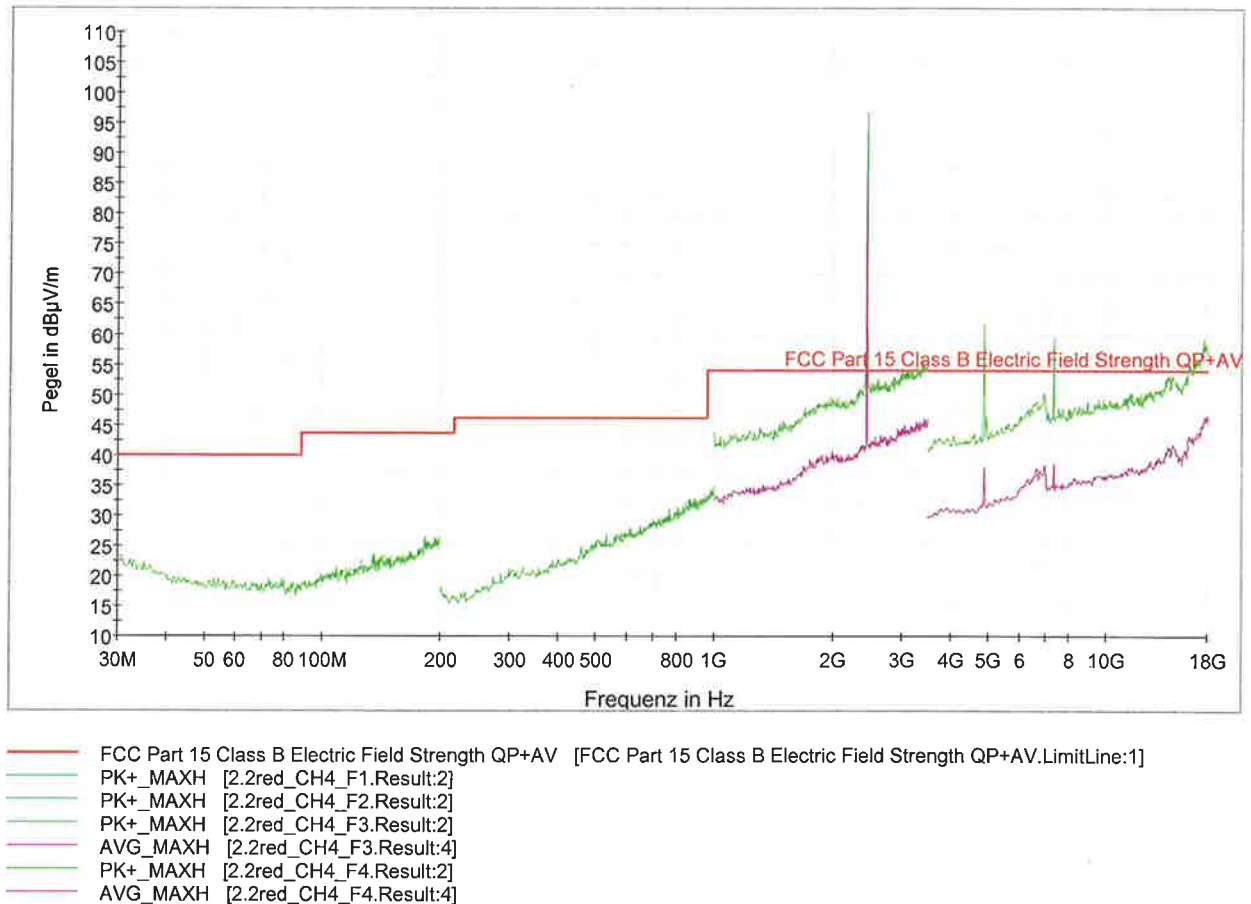
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-151; NT-207

Emissions outside 2400 – 2483,5 MHz

§ 15.249 (d) (e)

Channel 4 (2441,8 MHz) – average values above 1 GHz are shown in magenta – green = peak



LIMIT

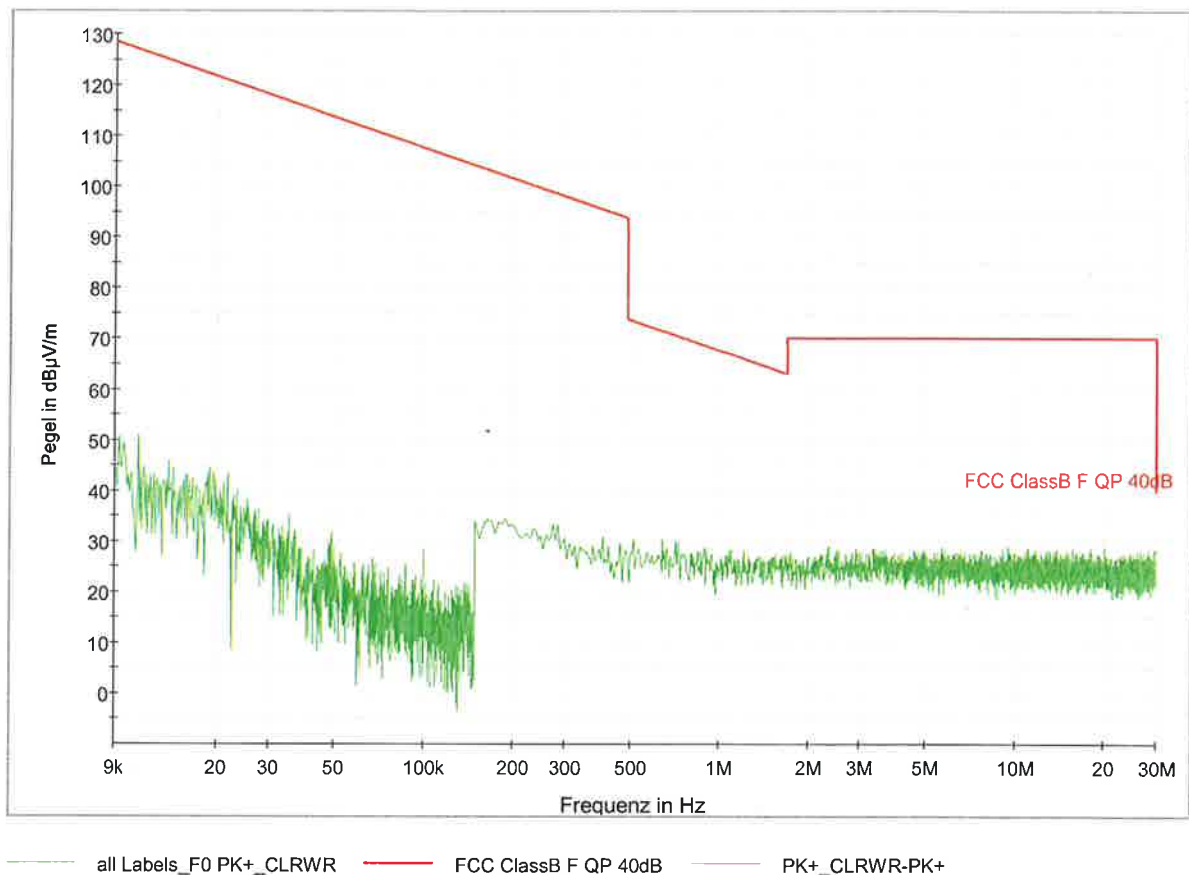
see page 11

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-129; NT-131; NT-207

Remark: Although the measurements were made up to the 10th harmonic (25 GHz) the frequency range above 18 GHz is not automatized, so no graphs are available. Nevertheless no emissions above noise level were found in the frequency range above 18 GHz.

Emissions outside 2400 – 2483,5 MHz
Channel 10 (2470-25 MHz)

§ 15.249 (d) (e)



LIMIT

SUBCLAUSE 15.249(d) (e) (15.209)

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

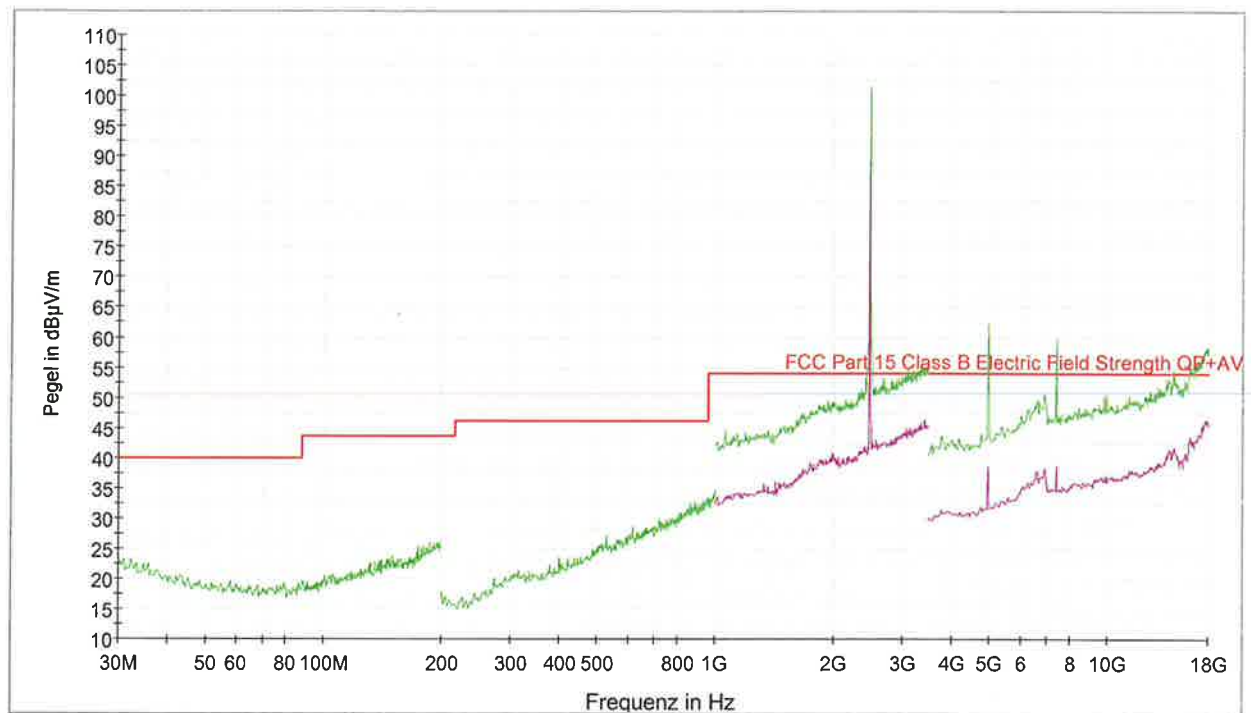
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-122; NT-151; NT-207

Emissions outside 2400 – 2483,5 MHz

§ 15.249 (d) (e)

Channel 10 (2479,25 MHz) – average values above 1 GHz are shown in magenta – green = peak



- FCC Part 15 Class B Electric Field Strength QP+AV [FCC Part 15 Class B Electric Field Strength QP+AV.LimitLine:1]
- PK+_MAXH [2.2red_CH10_F1.Result:2]
- PK+_MAXH [2.2red_CH10_F2.Result:2]
- PK+_MAXH [2.2red_CH10_F3.Result:2]
- PK+_MAXH [2.2red_CH10_F4.Result:2]
- AVG_MAXH [2.2red_CH10_F4.Result:4]
- AVG_MAXH [2.2red_CH10_F3.Result:4]

LIMIT

see page 13

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-129; NT-131; NT-207

Remark: Although the measurements were made up to the 10th harmonic (25 GHz) the frequency range above 18 GHz is not automatized, so no graphs are available. Nevertheless no emissions above noise level were found in the frequency range above 18 GHz.

Appendix 1

Test equipment used

☐	Anechoic Chamber with 3m measurement distance	NT-100	☐	Spectrum analyzer – FSP7 9 kHz – 7 GHz	NT-200
☐	Stripline according to ISO 11452-5	NT-108	☐	ESCI - Test receiver 9 kHz – 7 GHz	NT-203/1
☐	MA4000 - Antenna mast 1 - 4 m height	NT-110/1	☐	ESI26 – Test receiver 20 Hz – 26,5 GHz	NT-207
☐	DS - Turntable 0 - 400 ° Azimuth	NT-111/1	☐	Digital Radio Tester CTS55	NT-208
☐	CO3000 Controller Mast+Turntable	NT-112/1	☐	Noise-gen., ITU-R 559-2 20 Hz – 20 kHz	NT-209
☐	HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz	NT-121	☐	CMTA - Radiocommunication analyzer ; 0,1 - 1000 MHz	NT-210
☐	HFH-Z2 - Loop Antenna 9 kHz - 30 MHz	NT-122	☐	3271 - Spectrum analyzer 100 Hz - 26,5 GHz	NT-211
☐	HFH-Z6 - Rod Antenna 9 kHz - 30 MHz	NT-123	☐	Digital Radio Tester Aeroflex 3920	NT-212/1
☐	3121C - Dipole Antenna 28 - 1000 MHz	NT-124	☐	Mixer M28HW 26,5 GHz - 40 GHz	NT-214
☐	3115 - Horn Antenna 1 - 18 GHz (immunity)	NT-125	☐	RubiSource T&M Timing reference	NT-216
☐	3116 - Horn Antenna 18 - 40 GHz	NT-126	☐	Radiocommunication analyzer SWR 1180 MD	NT-217
☐	SAS-200/543 - Bicon. Antenna 20 MHz - 300 MHz	NT-127	☐	Mixer M19HWD 40 GHz – 60 GHz	NT-218
☐	AT-1080 - Log. Per. Antenna 80 - 1000 MHz	NT-128	☐	Mixer M12HWD 60 GHz – 90 GHz	NT-219
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-129	☐	DSO9104 Digital scope	NT-220/1
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-130	☐	TPS 2014 Digital scope	NT-222
☐	3146 - Log. Per. Antenna 200 – 1000 MHz	NT-131	☐	Artificial Ear according to IEC 60318	NT-224
☐	Loop Antenna H-Field	NT-132	☐	1 kHz Sound calibrator	NT-225
☐	Horn Antenna 500 MHz - 2900 MHz	NT-133	☐	B10 - Harmonics and flicker analyzer	NT-232
☐	Horn Antenna 500 MHz - 6000 MHz	NT-133/1	☐	ARS 16/3 – Harmonics- flicker analyzer	NT-232/1
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-134	☐	SRM-3000 Spectrum analyzer	NT-233
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-135	☐	SRM-3006 Spectrum analyzer	NT-233/1a
☐	BiConiLog Antenna 26 MHz – 2000 MHz	NT-137	☐	E-field probe SRM 75 MHz – 3 GHz	NT-234
☐	Conical Dipol Antenna PCD8250	NT-138	☐	Field Meter NBM-500 incl. E- and H-Field probes	NT-240a-d
☐	HF 906 - Horn Antenna 1 - 18 GHz (emission)	NT-139	☐	Hall-Teslameter ETM-1	NT-241
☐	HZ-1 Antenna tripod	NT-150	☐	EFA-3 H-field- / E-field probe	NT-243
☐	BN 1500 Antenna tripod	NT-151	☐	Field Meter EMR-200 100 kHz – 3 GHz	NT-244
☐	Ant. tripod for EN61000-4-3 Model TP1000A	NT-156	☐	E-field probe 100 kHz – 3 GHz	NT-245
☐	Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-173	☐	H-field probe 300 kHz – 30 MHz	NT-246

Division Medical
Technology/
Communication
Technology/ EMC

Department: FG

Test report number:
M/FG-15/154

Page: 1 of 3

Date: 14.09.2015

Checked by: 

Appendix 1 (continued)

Test equipment used

☐	E-field probe 3 MHz – 18 GHz	NT-247	☐	VCS 500-M6 Surge-Generator	NT-326
☐	H-field probe 27 MHz – 1 GHz	NT-248	☐	Oscillatory Wave Simulator incl. Coupling networks	NT-328a+b+c
☐	ELT-400 1 Hz – 400 kHz	NT-249	☐	BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W	NT-330
☐	MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250	☐	T82-50 RF-Amplifier 2 GHz – 8 GHz	NT-331
☐	FCC-203I EM Injection clamp	NT-251	☐	500W1000M7 - RF-Amplifier 80 - 1000 MHz / 500 W	NT-332
☐	FCC-203I-DCN Ferrite decoupling network	NT-252	☐	AS0102-65R - RF-Amplifier 1 GHz - 2 GHz	NT-333
☐	PR50 Current Probe	NT-253	☐	APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
☐	i310s Current Probe	NT-254/1	☐	Preamplifier 1 GHz - 4 GHz	NT-335
☐	Fluke 87 V True RMS Multimeter	NT-260	☐	Preamplifier for GPS MKU 152 A	NT-336
☐	Model 2000 Digital Multimeter	NT-261	☐	Preamplifier 100 MHz – 23 GHz	NT-337
☐	Fluke 87 V Digital Multimeter	NT-262/1	☐	DC Block 10 MHz – 18 GHz Model 8048	NT-338
☐	ESH2-Z5-U1 Artificial mains network 4x25A	NT-300	☐	2-97201 Electronic load	NT-341
☐	ESH3-Z5-U1 Artificial mains network 2x10A	NT-301	☐	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-344
☐	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302	☐	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-345
☐	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302a	☐	VDS 200 Mobil-impuls-generator	NT-350
☐	PHE 4500/B Power amplifier	NT-304	☐	LD 200 Mobil-impuls-generator	NT-351
☐	PAS 5000 Power amplifier	NT-304/1a	☐	MPG 200 Mobil-Impuls-Generators	NT-352
☐	EZ10 T-Artificial Network	NT-305	☐	EFT 200 Mobil-impuls-generator	NT-353
☐	SMG - Signal generator 0,1 - 1000 MHz	NT-310	☐	AN 200 S1 Artificial Network	NT-354
☐	SMA100A - Signal generator 9 kHz - 6 GHz	NT-310/1	☐	FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
☐	RefRad Reference generator	NT-312	☐	PHE 4500 - Mains impedance network	NT-401
☐	SMP 02 Signal generator 10 MHz - 20 GHz	NT-313	☐	IP 6.2 Coupling filter for data lines (Surge)	NT-403
☐	40 MHz Arbitrary Generator TGA1241	NT-315	☐	TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
☐	Artificial mains network NSLK 8127-PLC	NT-316	☐	ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
☐	Inrush Current Source for PAS 5000	NT-317a	☐	IP 4 - Capacitive clamp (Burst)	NT-411
☐	Control and measurement device Sycore	NT-318	☐	Highpass-Filter 100 MHz – 3 GHz	NT-412
☐	PEFT - Burst generator up to 4 kV	NT-320	☐	Highpass-Filter 600 MHz – 4 GHz	NT-413
☐	ESD 30 System up to 25 kV	NT-321	☐	Highpass-Filter 1250 MHz – 4 GHz	NT-414
☐	PSURGE 4.1 Surge generator	NT-324	☐	Highpass-Filter 1800 MHz – 16 GHz	NT-415
☐	IMU4000 Immunity test system	NT-325/1			

Division Medical
Technology/
Communication
Technology/ EMC

Department: FG

Test report number:
M/FG-15/154

Page: 2 of 3

Date: 14.09.2015

Checked by: 

Appendix 1 (continued)

Test equipment used

☐ Highpass-Filter 3500 MHz – 18 GHz	NT-416	☐ FCC-801-S25 Coupling decoupling network	NT-462
☐ RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417	☐ FCC-801-T4 Coupling decoupling network	NT-463
☐ RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418	☐ FCC-801-C1 Coupling decoupling network	NT-464
☐ RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419	☐ SW 9605 - Current probe 150 kHz – 30 MHz	NT-465/1
☐ RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421	☐ 95242-1 – Current probe 1 MHz – 400 MHz	NT-468
☐ RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423	☐ 94106-1L-1 – Current probe 100 kHz – 450 MHz	NT-471
☐ RF-Attenuator 30 dB	NT-424	☐ GA 1240 Power amplifier according to EN 61000-4-16	NT-480
☐ RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425	☐ Coupling networks according to EN 61000-4-16	NT-481 - NT-483
☐ RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426	☐ Van der Hoofden Test Head	NT-484
☐ RF-Attenuator 6 dB	NT-428	☐ PC P4 3 GHz Test computer	NT-500
☐ RF-Attenuator 0 dB - 81 dB	NT-429	☐ PC P4 1700 MHz Notebook	NT-505
☐ WRU 27 - Band blocking 27 MHz	NT-430	☐ Monitoring camera with Monitor	NT-511
☐ WHJ450C9 AA - High pass 450 MHz	NT-431	☐ ES-K1 Version 1.71 SP2 Test software	NT-520
☐ WHJ250C9 AA - High pass 250 MHz	NT-432	☐ EMC32 Version 9.21 Test software	NT-520/1
☐ RF-Load 150 W	NT-433	☐ SRM-TS Version 1.3 software for SRM-3000	NT-522
☐ Impedance transducer 1:4 ; 1:9 ; 1:16	NT-435	☐ SRM-TS Version 1.3.1 software for SRM-3006	NT-522/1
☐ RF-Attenuator DC – 18 GHz 6 dB	NT-436	☐ Spitzenberger und Spies Test software V3.4	NT-525
☐ RF-Attenuator DC – 18 GHz 6 dB	NT-437	☐ Noise power test apparatus according to EN 55014	NT-530
☐ RF-Attenuator DC – 18 GHz 10 dB	NT-438	☐ Vertical coupling plane (ESD)	NT-531
☐ RF-Attenuator DC – 18 GHz 20 dB	NT-439	☐ Test cable #4 for EN 61000-4-6	NT-553
☐ I+P 7780 Directional coupler 100 - 2000 MHz	NT-440	☐ Test cable #3 for conducted emission	NT-554
☐ ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441	☐ Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
☐ Power Divider 6 dB/1 W/50 Ohm	NT-443	☐ Test cable #8 Sucoflex 104EA	NT-559
☐ Directional coupler 0,1 MHz – 70 MHz	NT-444	☐ Test cable #9 (for outdoor measurements)	NT-580
☐ Directional coupler 0,1 MHz – 70 MHz	NT-445	☐ Test cable #10 (for outdoor measurements)	NT-581
☐ Tube imitations according to EN 55015	NT-450	☐ Test cable #13 Sucoflex 104PE	NT-584
☐ FCC-801-M3-16A Coupling decoupling network	NT-458	☐ Test cable #21 for SRM-3000	NT-592
☐ FCC-801-M2-50A Coupling decoupling network	NT-459	☐ Shield chamber	NT-600
☐ FCC-801-M5-25 Coupling decoupling network	NT-460	☐ Climatic chamber	M-1200
☐ FCC-801-AF10 Coupling decoupling network	NT-461		

Division Medical
Technology/
Communication
Technology/ EMC

Department: FG

Test report number:
M/FG-15/154

Page: 3 of 3

Date: 14.09.2015

Checked by: 

Appendix 2 Photodocumentation

Description: Front view

Division Medical Technology/
Communication Technology/
EMC

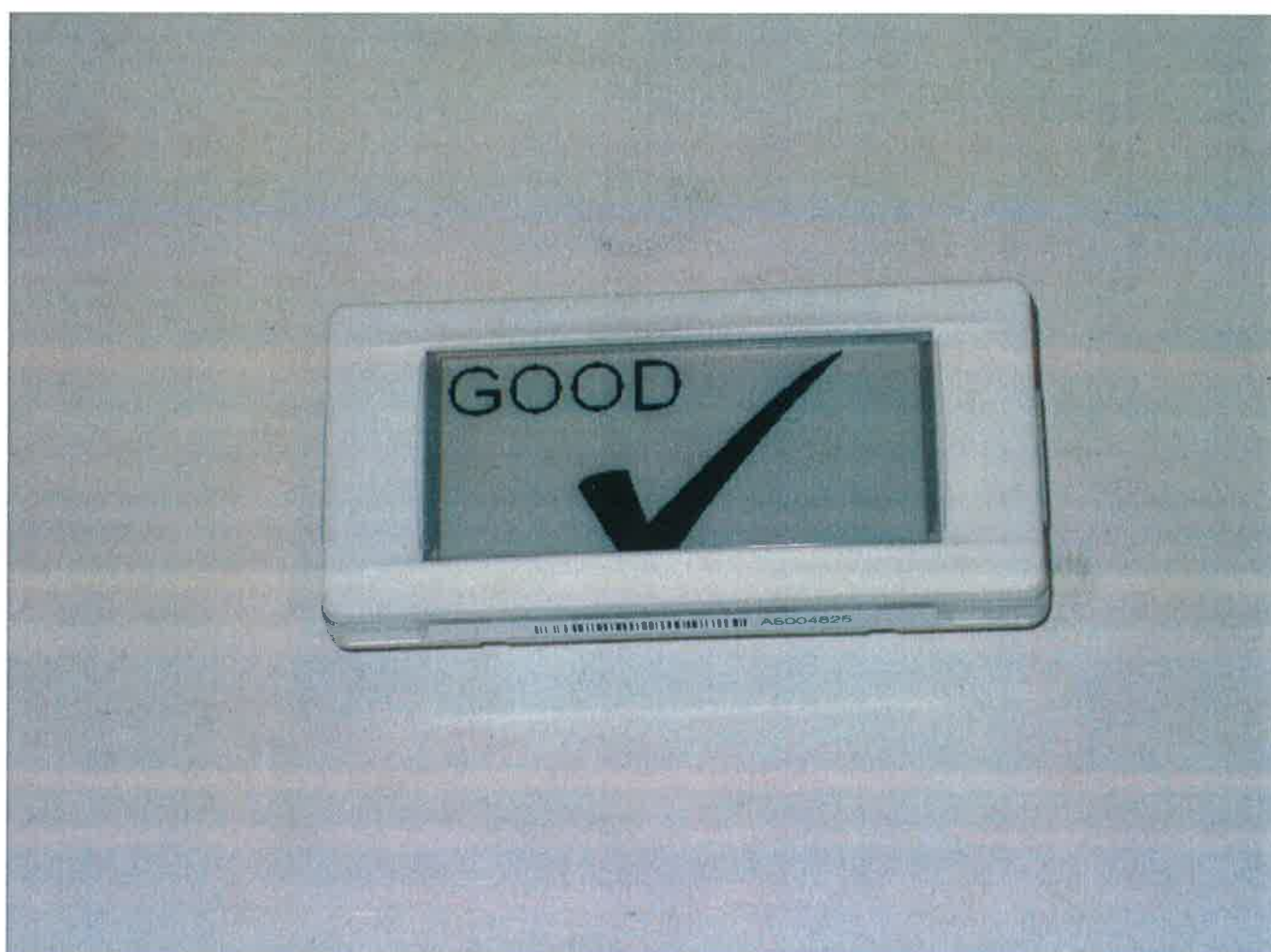
Department: FG

Test report reference:
M/FG-15/154

Page: 1 of 6

Date: 14.09.2015

checked by: As



Appendix 2 Photodocumentation

Description: Backside view

Division Medical Technology/
Communication Technology/
EMC

Department: FG

Test report reference:
M/FG-15/154

Page: 2 of 6

Date: 14.09.2015

checked by: 



Appendix 2 Photodocumentation

Description: Battery compartment opened

Division Medical Technology/
Communication Technology/
EMC

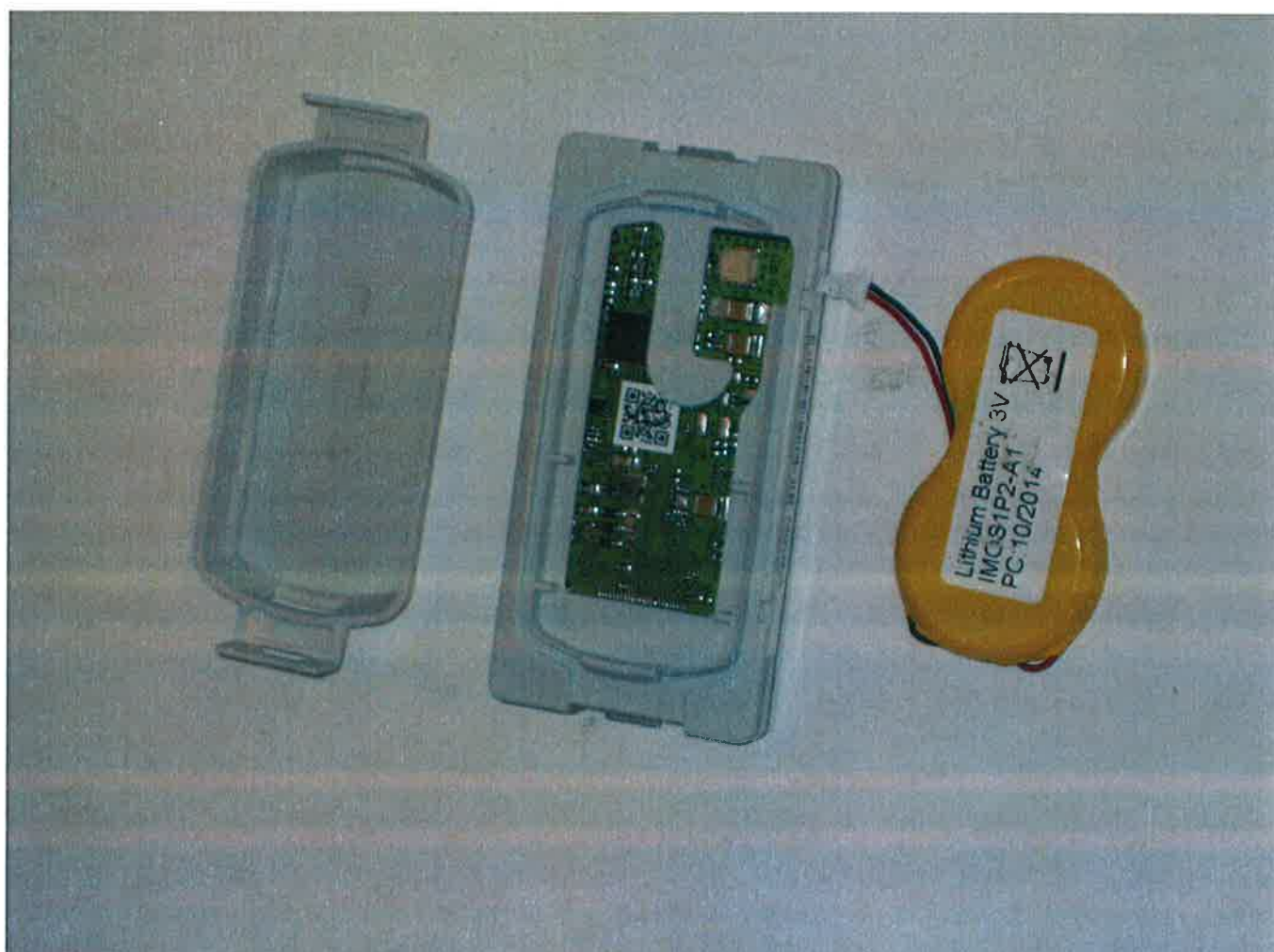
Department: FG

Test report reference:
M/FG-15/154

Page: 3 of 6

Date: 14.09.2015

checked by: 



Appendix 2 Photodocumentation

Description: Case opened view #1

Division Medical Technology/
Communication Technology/
EMC

Department: FG

Test report reference:
M/FG-15/154

Page: 4 of 6

Date: 14.09.2015

checked by: 



Appendix 2 Photodocumentation

Description: Case opened view #2

Division Medical Technology/
Communication Technology/
EMC

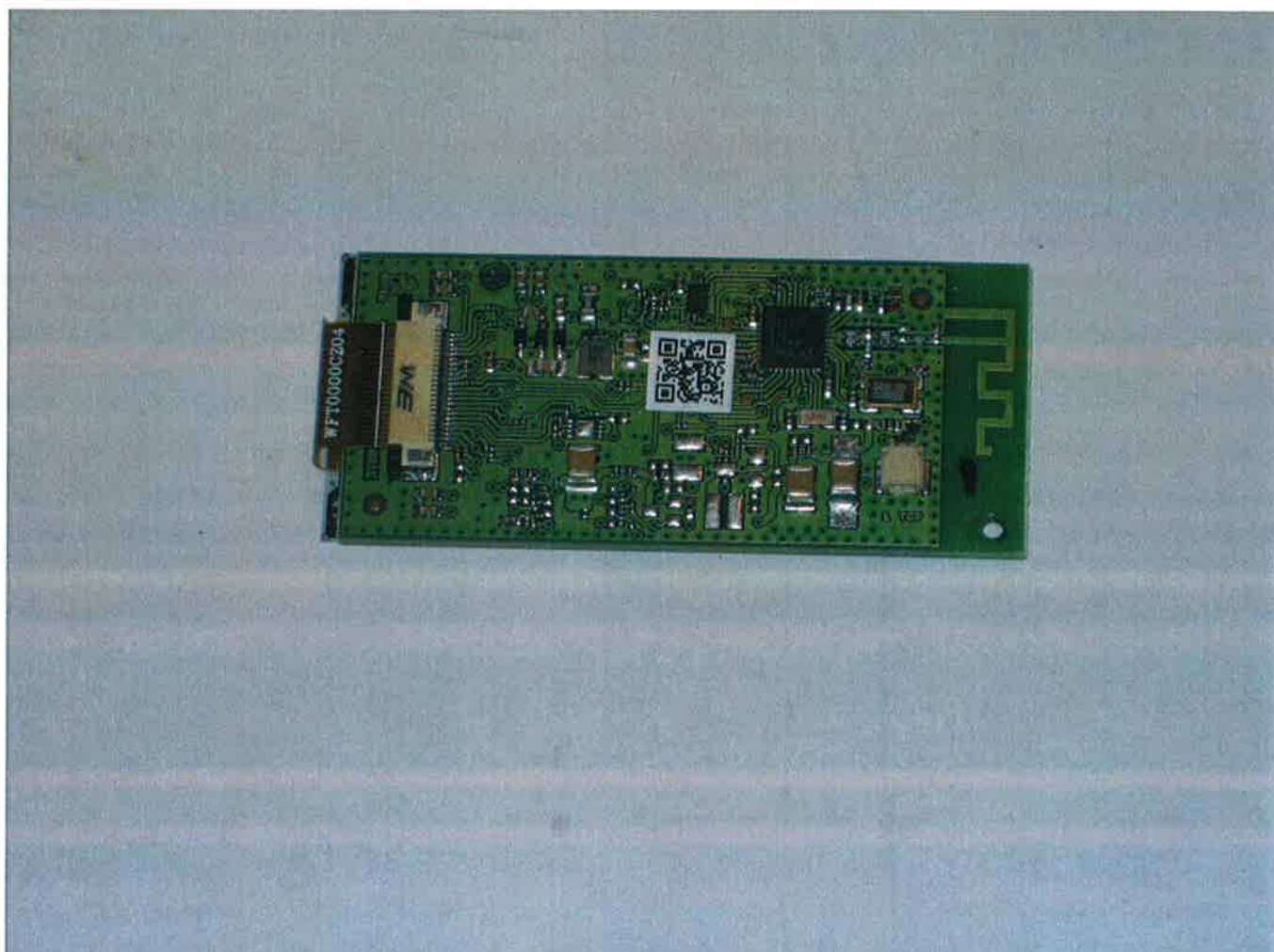
Department: FG

Test report reference:
M/FG-15/154

Page: 5 of 6

Date: 14.09.2015

checked by: 



Appendix 2 Photodocumentation

Description: Test setup

Division Medical Technology/
Communication Technology/
EMC

Department: FG

Test report reference:
M/FG-15/154

Page: 6 of 6

Date: 14.09.2015

checked by: 

