

TEST REPORT

of the accredited test laboratory

TÜV Nr.:M/FG-15/165

Applicant: KEBA AG
Gewerbepark Urfahr
A-4041 Linz

Tested Product: RFID reader module

FCC-ID: U870006

IC-ID: Not decided yet

Manufacturer: See Applicant

Output power / field strength: 56 dBµV/m @ 3m distance
power supply: 24V DC

Frequency range: 13,56 MHz
Channel separation: N/A

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

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Division:
Medical Technology/
Communication
Technology/ EMC

Department:
Testing Body for
Communication
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Notified Body 0408
IC 2932K-1

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Test laboratory for EMC

Supervisor of EMC-laboratory:


Ing. Wilhelm Seier



20.10.2015

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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
15.225 (a) (b) (c) A2.6	Field strength of emissions at 13,110 – 14,010 MHz	4
15.225 (d) 2.5	Emissions outside 13,110 – 14,010 MHz (15.209)	5-6
15.225 (e) A2.6	Frequency tolerance	7

TEST OBJECT DATA

General EUT Description

This RFID module device is intended to read data from NFC tags. It therefore uses 13,56 MHz at a very low transmitter signal level. The module is intended to be used only by the applicant.

2.1033 (c) Technical description

2.1033 (4) Type of emission: continuous transmission

2.1033 (5) Frequency range: only one operating frequency 13,56 MHz.

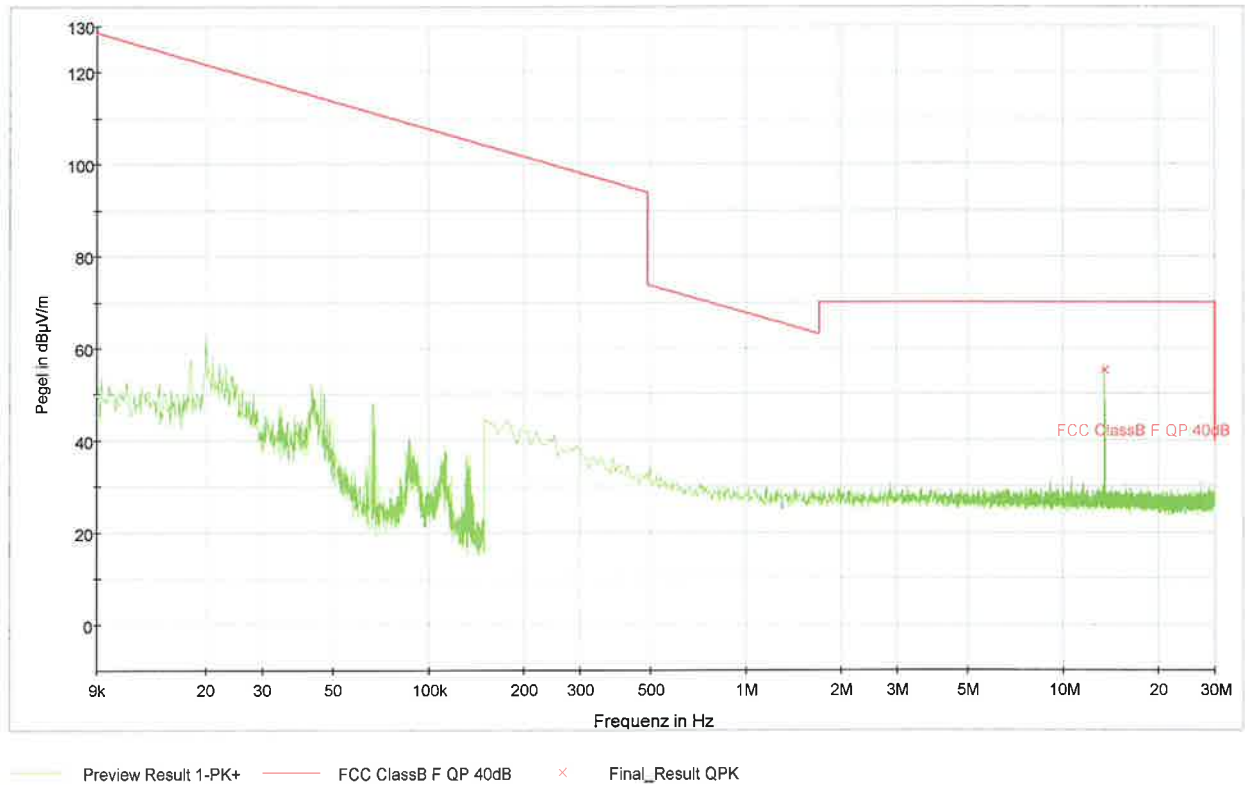
2.1033 (6) Power range and Controls: Fixed output power resulting in 56 dB μ V/m field strength in 3m distance.

2.1033 (7) Maximum output power rating: 56 dB μ V/m @ 3m distance.

2.1033 (8) DC Voltage and Current: 24 V DC powered
maximum current consumption: 110 mA

Field strength of emissions at 13,110 – 14,010 MHz

**§ 15.225 (a) (b) (c)
A2.6**



Field strength at 13,56 MHz: 56 dBµV/m = 631 µV/m at 3 m distance. Converted with 40dB per decade for the 30m Limit this would be a Level of 16dBµV/m or 6,31 µV/m.

LIMIT SUBCLAUSE 15.225(a) (b) (c) (A2.6)

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

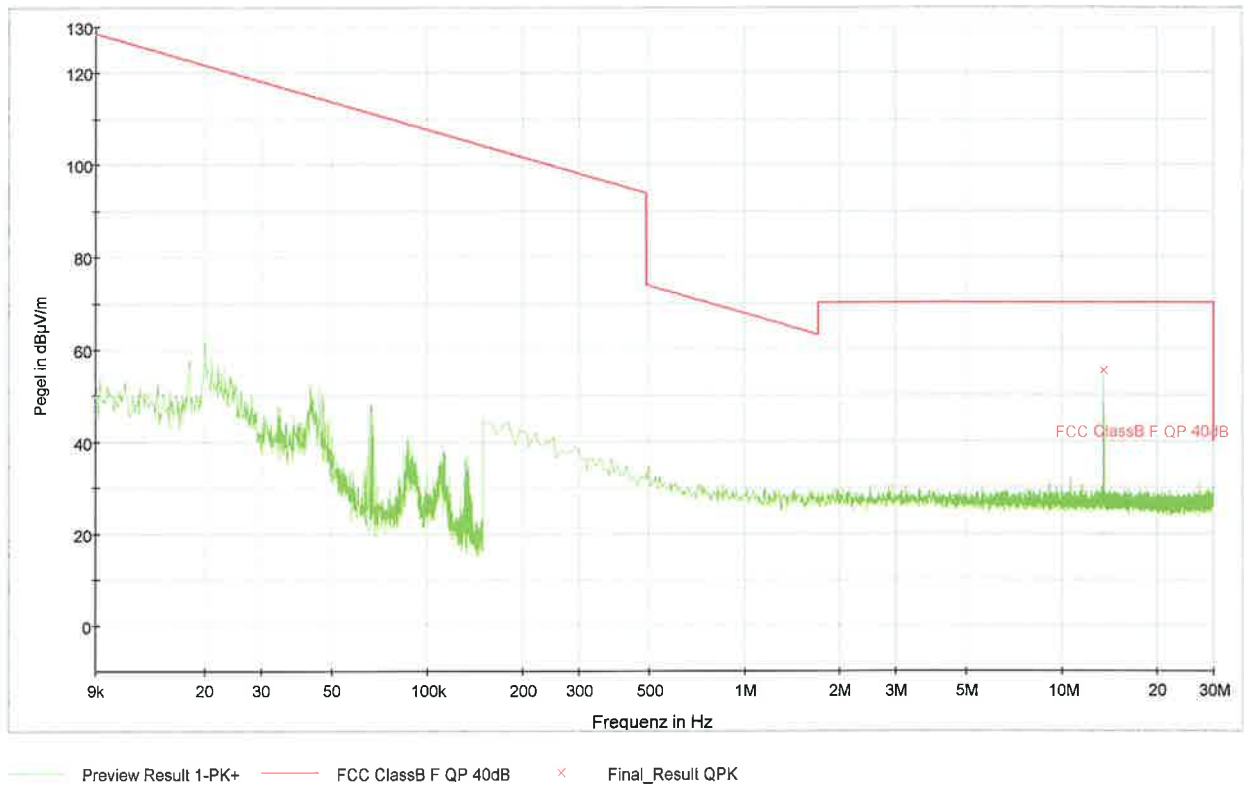
(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

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

Emissions outside 13,110 – 14,010 MHz

**§ 15.225 (d)
2.5**



LIMIT

SUBCLAUSE 15.225(d) (15.209) (2.5)

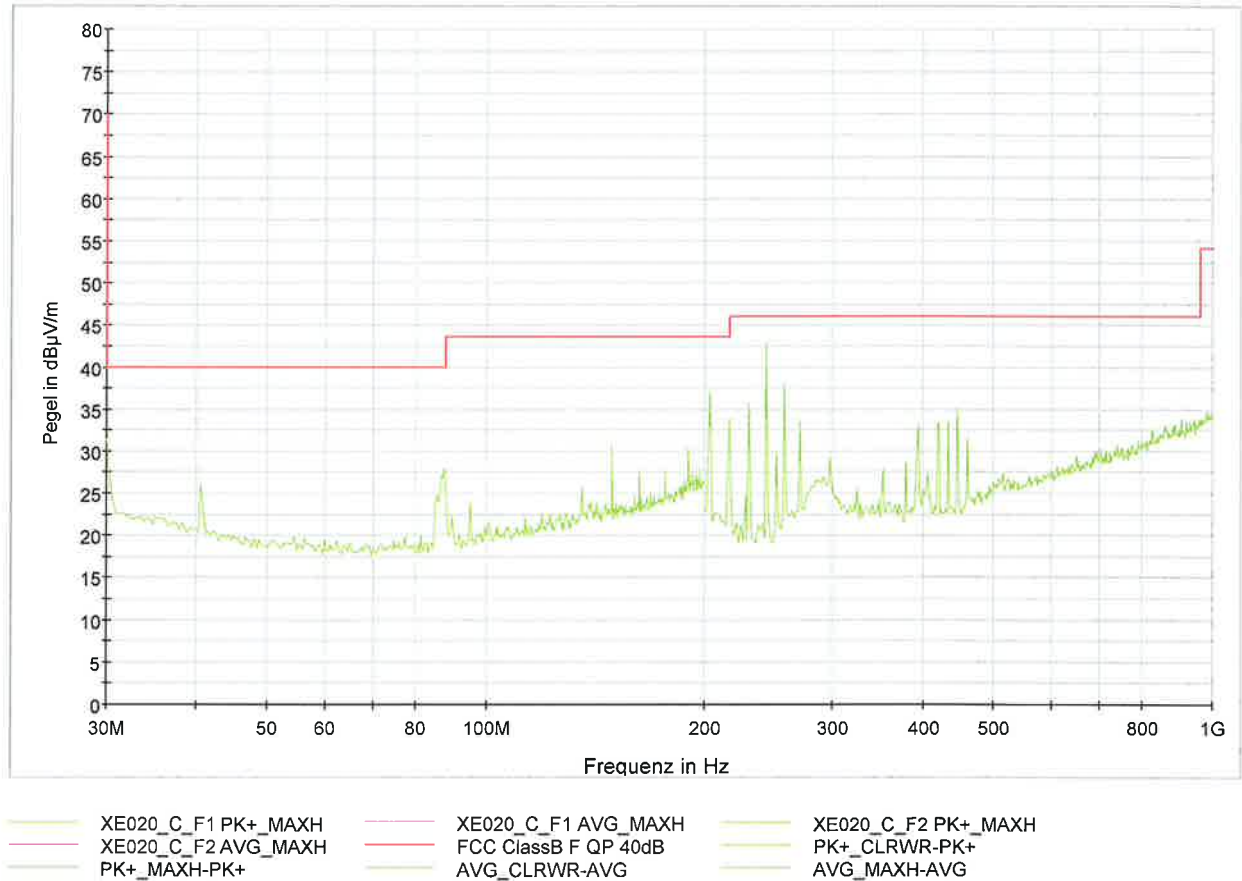
(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

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 13,110 – 14,010 MHz

**§ 15.225 (d)
2.5**



LIMIT

SUBCLAUSE 15.225(d) (15.209) (2.5)

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

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-129; NT-131; NT-207

Frequency tolerance

**§ 15.225 (e)
A2.6**

Frequency error vs. Supply voltage

DC-Voltage	Frequency Error Hz	Frequency Error %
20,4 V	+195	0,00143805
24 V	+195	0,00143805
27,6 V	+185	0,00136431

Frequency error vs. Temperature

Temperature °C	Frequency Error Hz	Frequency Error %
-20	+310	0,00228614
+20	+195	0,00143805
+50	+40	0,00029499

LIMIT SUBCLAUSE 15.225(e) (A2.6)

(e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Appendix 1

Test equipment used

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


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Appendix 1 (continued)

Test equipment used

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


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Appendix 1 (continued)

Test equipment used

<input type="checkbox"/>	Highpass-Filter 3500 MHz – 18 GHz	NT-416	<input type="checkbox"/>	FCC-801-S25 Coupling decoupling network	NT-462
<input type="checkbox"/>	RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417	<input type="checkbox"/>	FCC-801-T4 Coupling decoupling network	NT-463
<input type="checkbox"/>	RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418	<input type="checkbox"/>	FCC-801-C1 Coupling decoupling network	NT-464
<input type="checkbox"/>	RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419	<input type="checkbox"/>	SW 9605 - Current probe 150 kHz – 30 MHz	NT-465/1
<input type="checkbox"/>	RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421	<input type="checkbox"/>	95242-1 – Current probe 1 MHz – 400 MHz	NT-468
<input type="checkbox"/>	RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423	<input type="checkbox"/>	94106-1L-1 – Current probe 100 kHz – 450 MHz	NT-471
<input type="checkbox"/>	RF-Attenuator 30 dB	NT-424	<input type="checkbox"/>	GA 1240 Power amplifier according to EN 61000-4-16	NT-480
<input type="checkbox"/>	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425	<input type="checkbox"/>	Coupling networks according to EN 61000-4-16	NT-481 - NT-483
<input type="checkbox"/>	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426	<input type="checkbox"/>	Van der Hoofden Test Head	NT-484
<input type="checkbox"/>	RF-Attenuator 6 dB	NT-428	<input type="checkbox"/>	PC P4 3 GHz Test computer	NT-500
<input type="checkbox"/>	RF-Attenuator 0 dB - 81 dB	NT-429	<input type="checkbox"/>	PC P4 1700 MHz Notebook	NT-505
<input type="checkbox"/>	WRU 27 - Band blocking 27 MHz	NT-430	<input type="checkbox"/>	Monitoring camera with Monitor	NT-511
<input type="checkbox"/>	WHJ450C9 AA - High pass 450 MHz	NT-431	<input type="checkbox"/>	ES-K1 Version 1.71 SP2 Test software	NT-520
<input type="checkbox"/>	WHJ250C9 AA - High pass 250 MHz	NT-432	<input type="checkbox"/>	EMC32 Version 9.25 Test software	NT-520/1
<input type="checkbox"/>	RF-Load 150 W	NT-433	<input type="checkbox"/>	SRM-TS Version 1.3 software for SRM-3000	NT-522
<input type="checkbox"/>	Impedance transducer 1:4 ; 1:9 ; 1:16	NT-435	<input type="checkbox"/>	SRM-TS Version 1.3.1 software for SRM-3006	NT-522/1
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 6 dB	NT-436	<input type="checkbox"/>	Spitzenberger und Spies Test software V3.4	NT-525
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 6 dB	NT-437	<input type="checkbox"/>	Noise power test apparatus according to EN 55014	NT-530
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 10 dB	NT-438	<input type="checkbox"/>	Vertical coupling plane (ESD)	NT-531
<input type="checkbox"/>	RF-Attenuator DC – 18 GHz 20 dB	NT-439	<input type="checkbox"/>	Test cable #4 for EN 61000-4-6	NT-553
<input type="checkbox"/>	I+P 7780 Directional coupler 100 - 2000 MHz	NT-440	<input type="checkbox"/>	Test cable #3 for conducted emission	NT-554
<input type="checkbox"/>	ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441	<input type="checkbox"/>	Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
<input type="checkbox"/>	Power Divider 6 dB/1 W/50 Ohm	NT-443	<input type="checkbox"/>	Test cable #8 Sucoflex 104EA	NT-559
<input type="checkbox"/>	Directional coupler 0,1 MHz – 70 MHz	NT-444	<input type="checkbox"/>	Test cable #9 (for outdoor measurements)	NT-580
<input type="checkbox"/>	Directional coupler 0,1 MHz – 70 MHz	NT-445	<input type="checkbox"/>	Test cable #10 (for outdoor measurements)	NT-581
<input type="checkbox"/>	Tube imitations according to EN 55015	NT-450	<input type="checkbox"/>	Test cable #13 Sucoflex 104PE	NT-584
<input type="checkbox"/>	FCC-801-M3-16A Coupling decoupling network	NT-458	<input type="checkbox"/>	Test cable #21 for SRM-3000	NT-592
<input type="checkbox"/>	FCC-801-M2-50A Coupling decoupling network	NT-459	<input type="checkbox"/>	Shield chamber	NT-600
<input type="checkbox"/>	FCC-801-M5-25 Coupling decoupling network	NT-460	<input type="checkbox"/>	Climatic chamber	M-1200
<input type="checkbox"/>	FCC-801-AF10 Coupling decoupling network	NT-461			

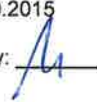
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Appendix 2 Photodocumentation

Description: Module in test setup view #1


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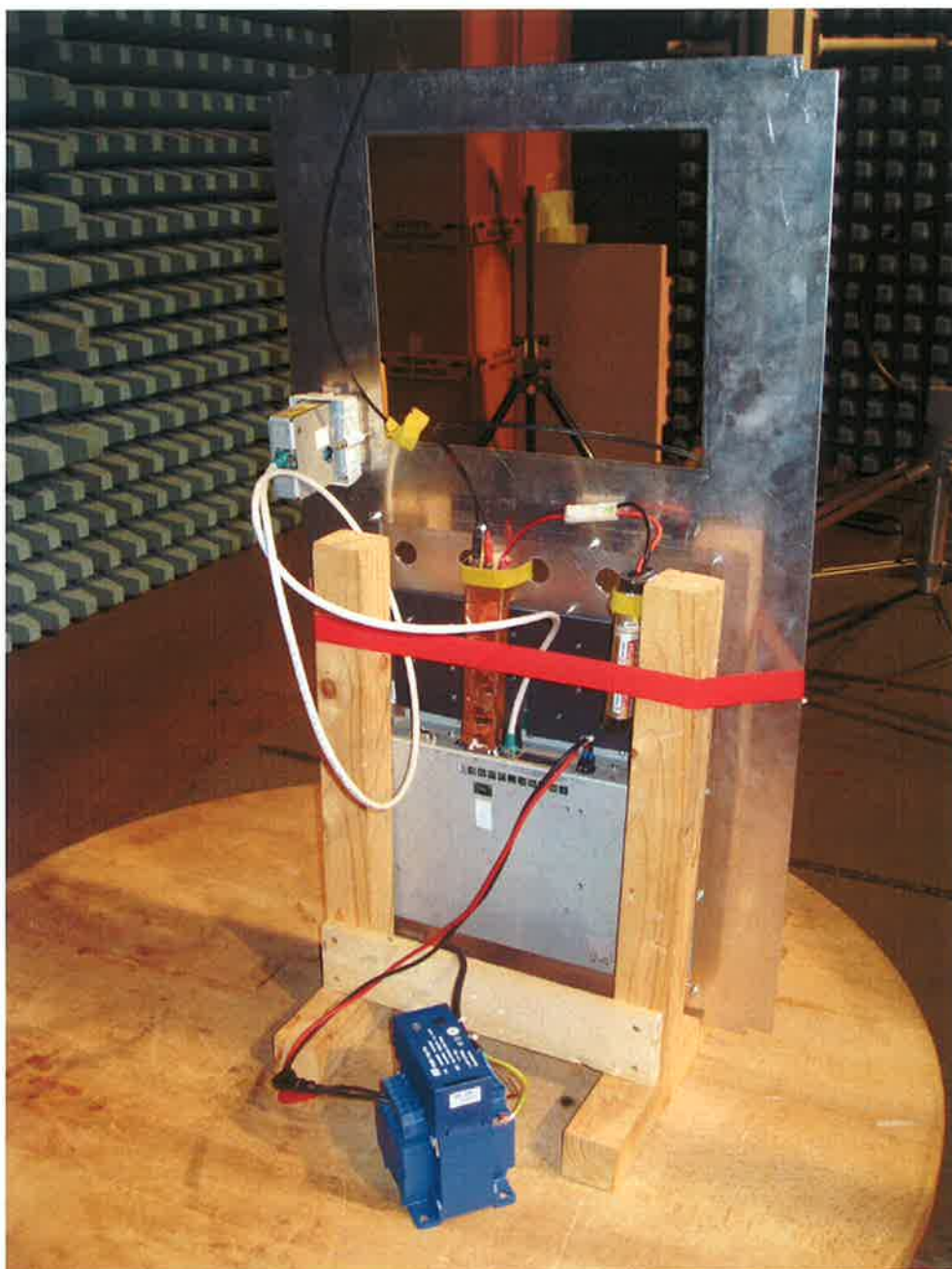
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Appendix 2 Photodocumentation

Description: Module in test setup view #2

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Appendix 2 Photodocumentation

Description: Front view (Antenna)

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Appendix 2 Photodocumentation

Description: Backside view #1


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Appendix 2 Photodocumentation

Description: Backside view #2


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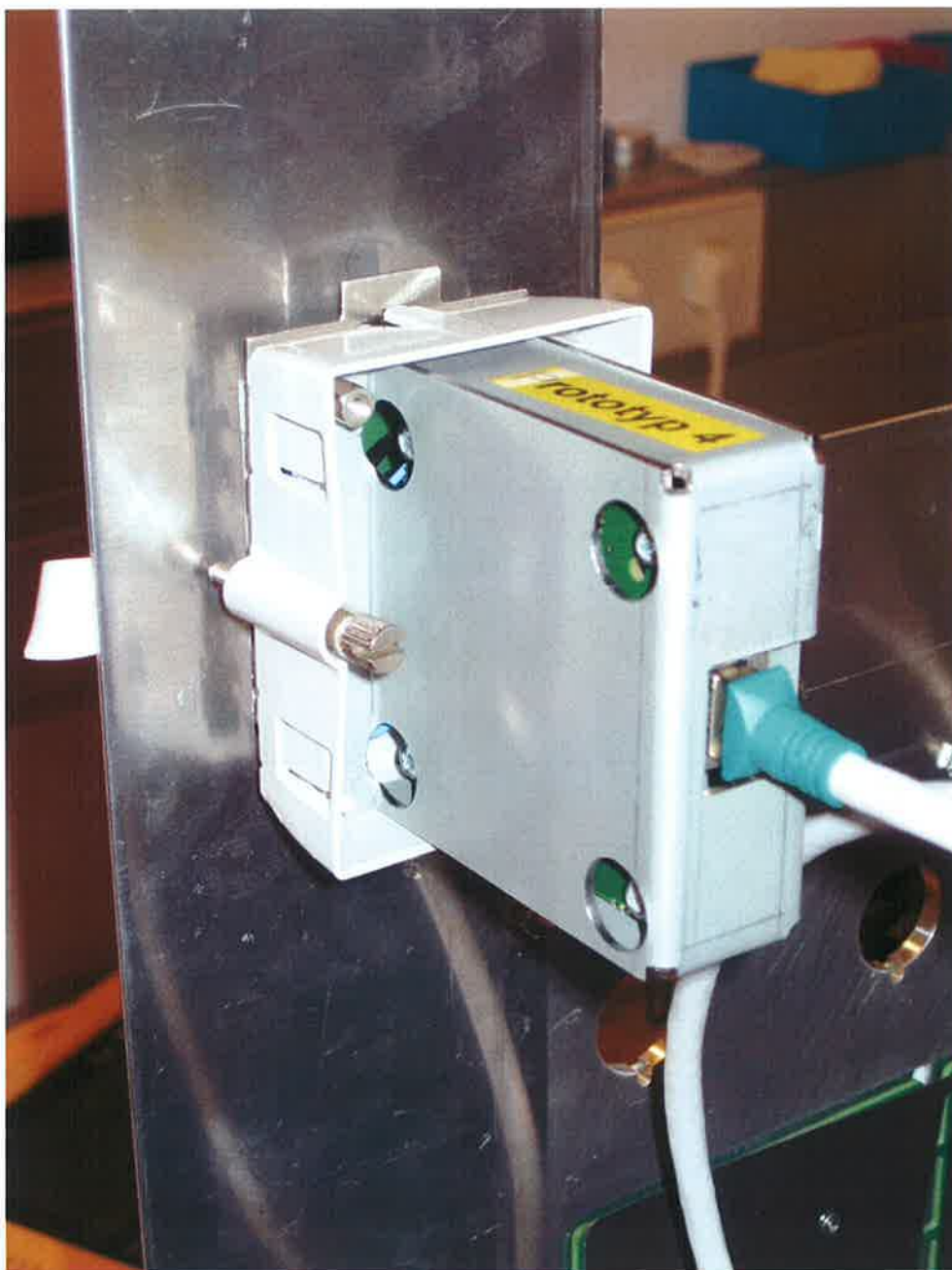
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Appendix 2 Photodocumentation

Description: Label

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Appendix 2 Photodocumentation

Description: Case opened

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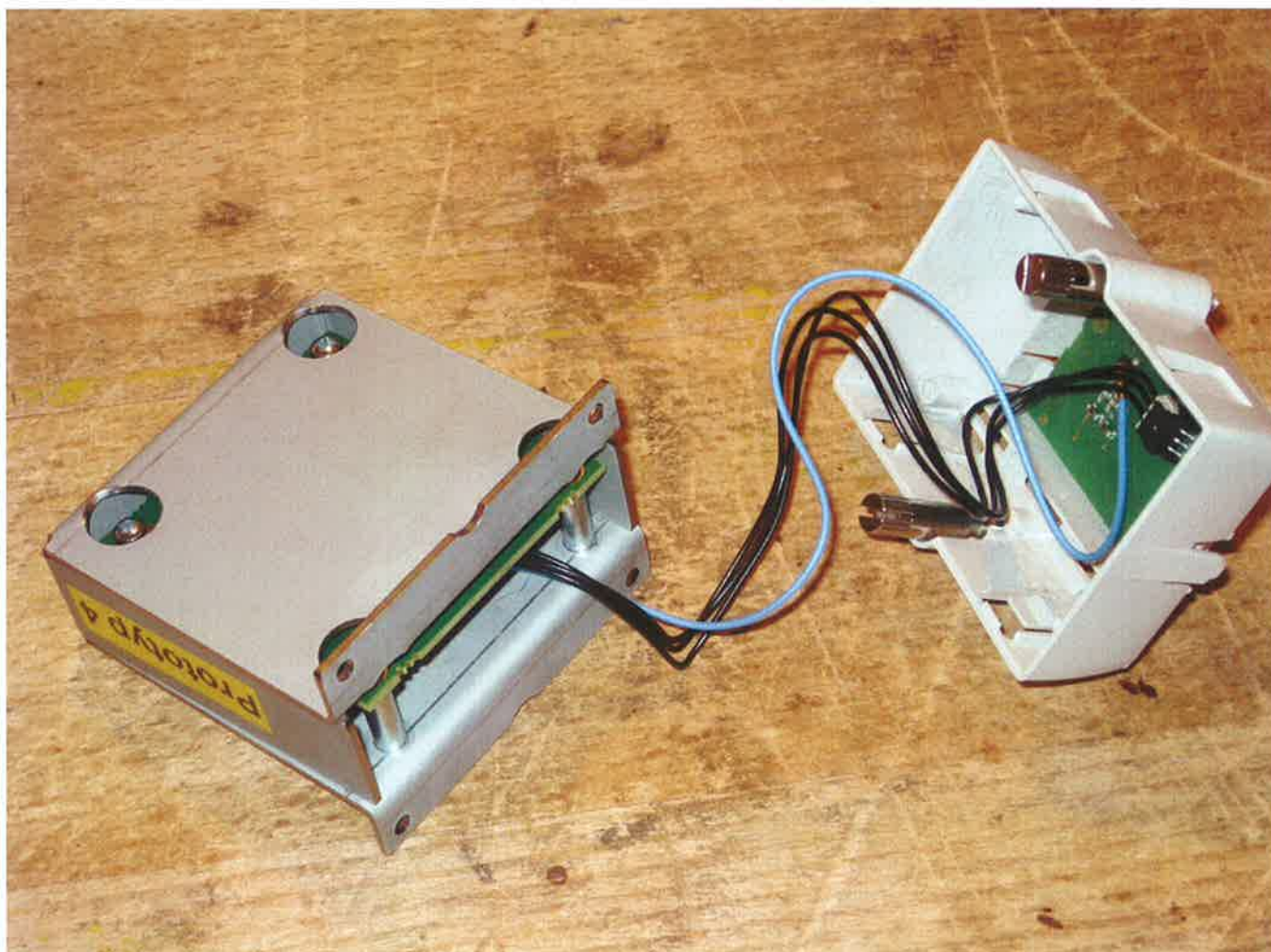
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Appendix 2 Photodocumentation

Description: Antenna PCB view #1

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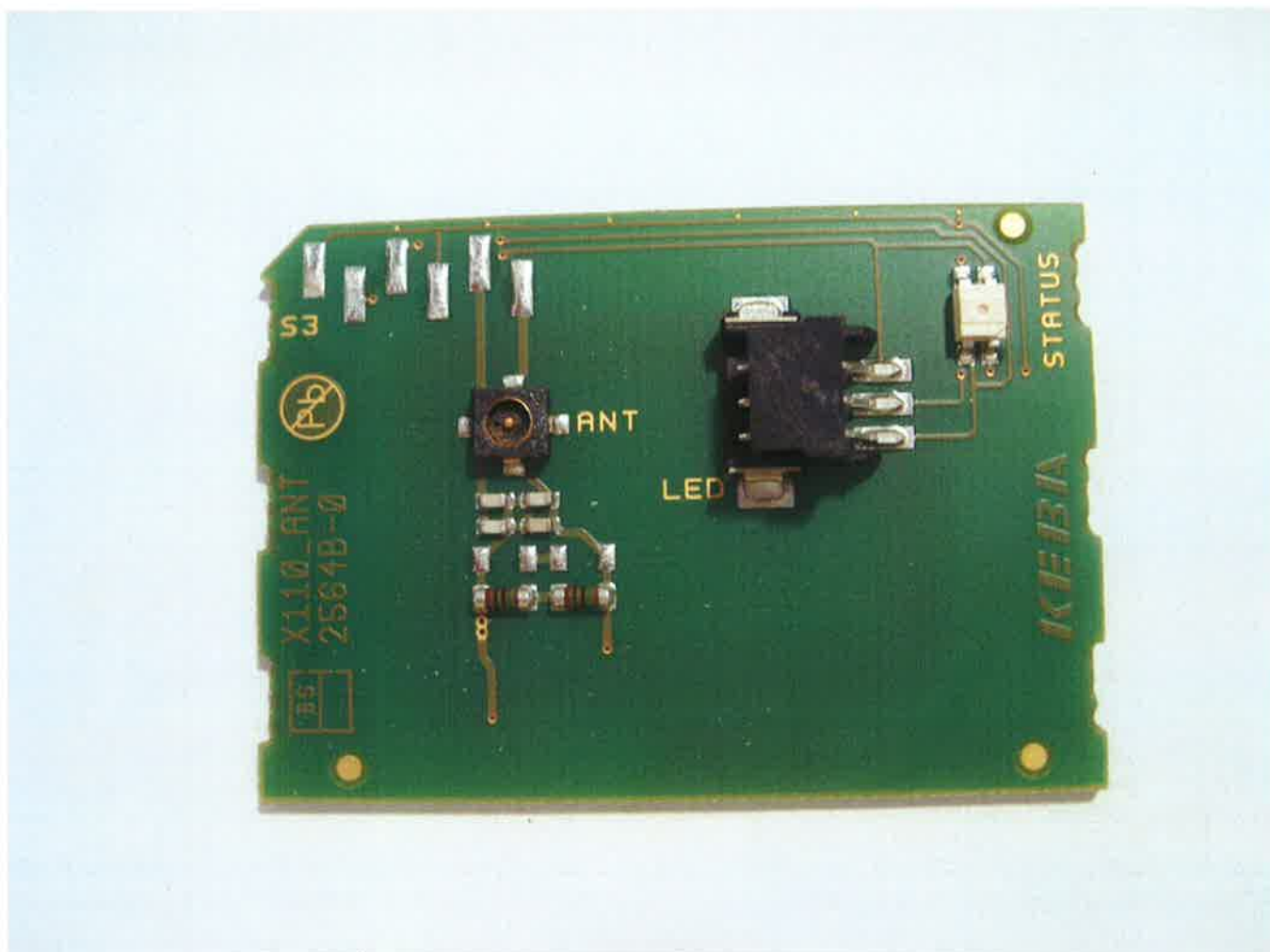
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Appendix 2 Photodocumentation

Description: Antenna PCB view #2

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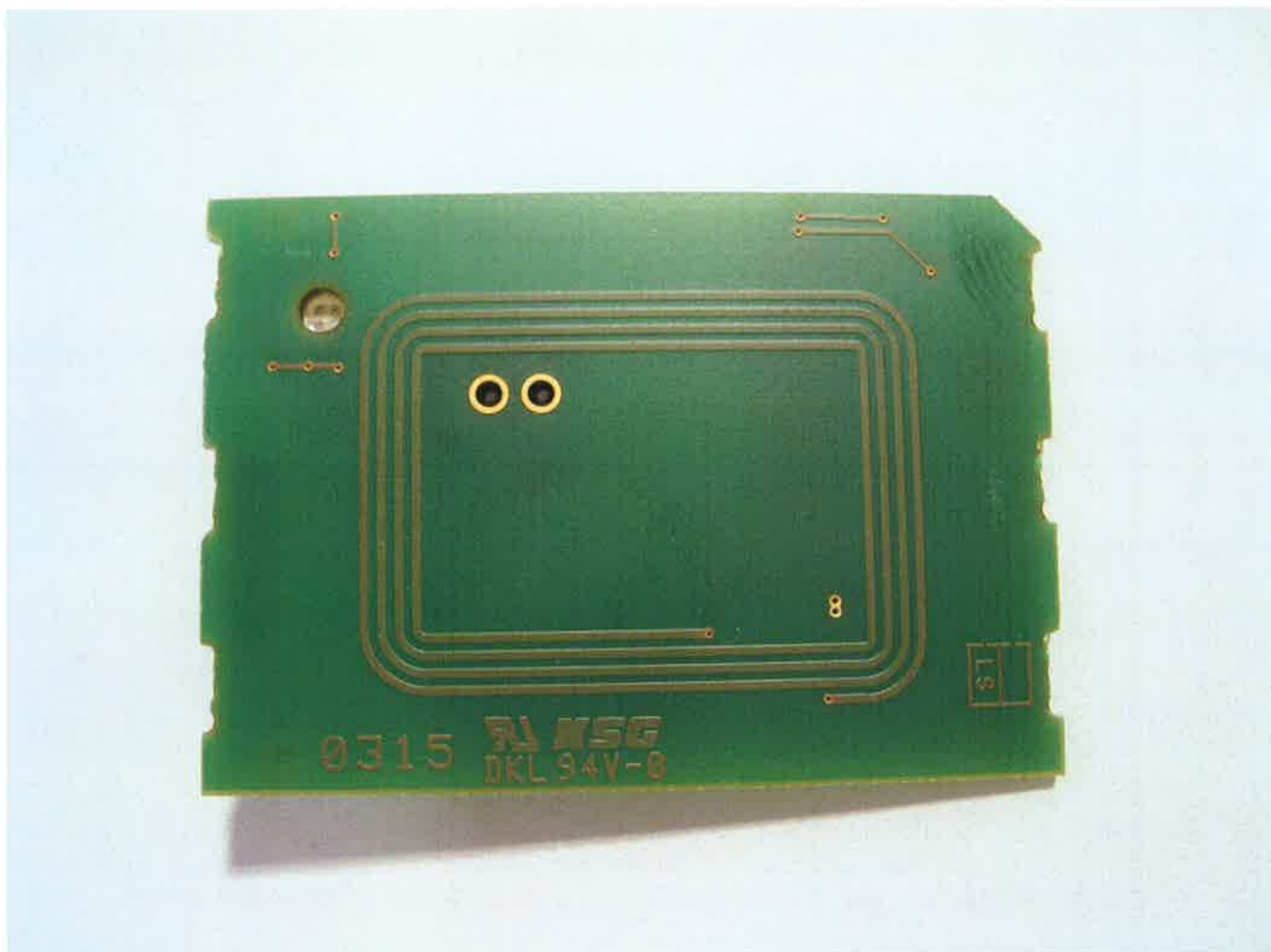
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Appendix 2 Photodocumentation

Description: Mainboard PCB view #1

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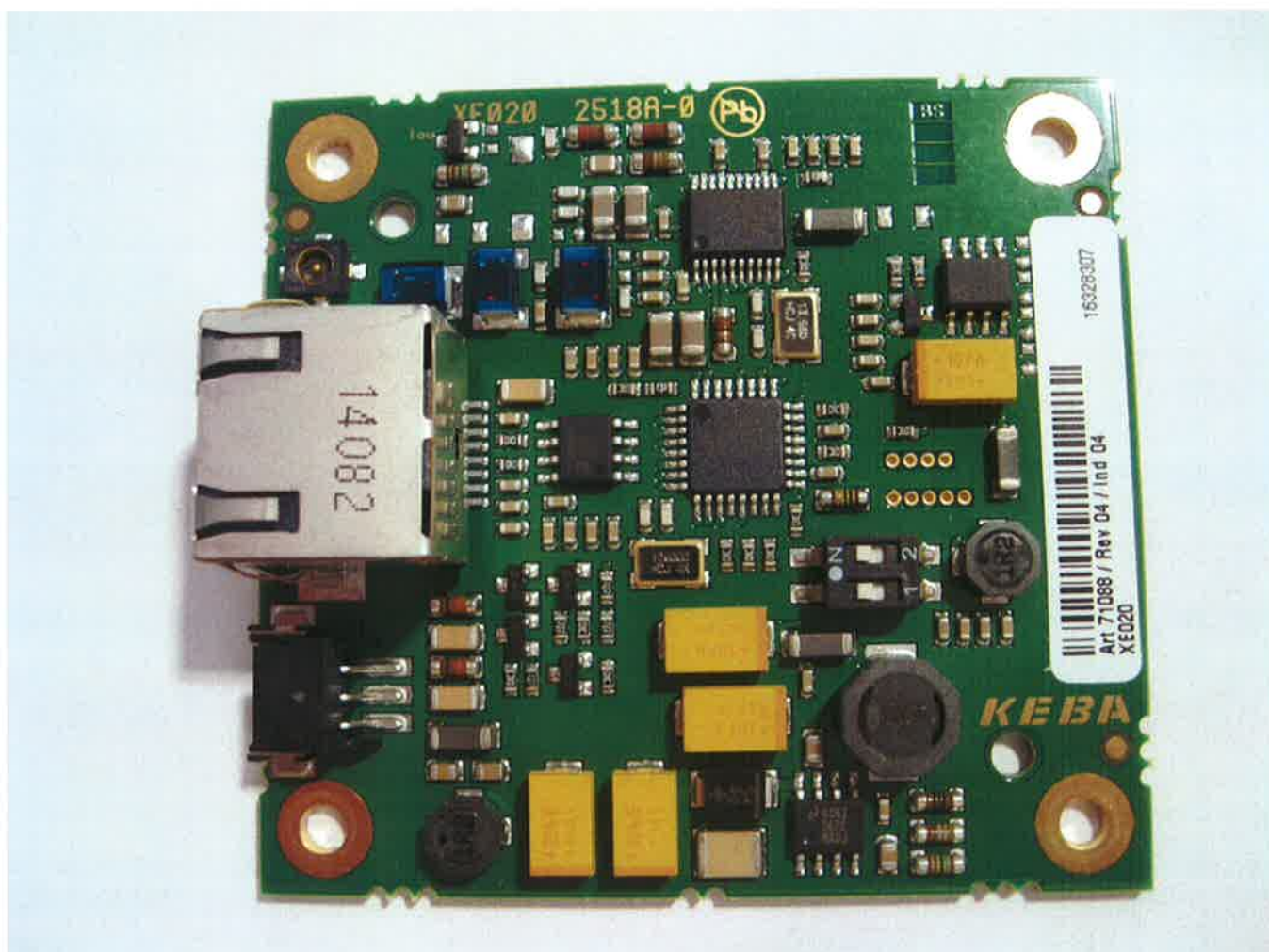
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Appendix 2 Photodocumentation

Description: Mainboard PCB view #2

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Communication Technology/
EMC

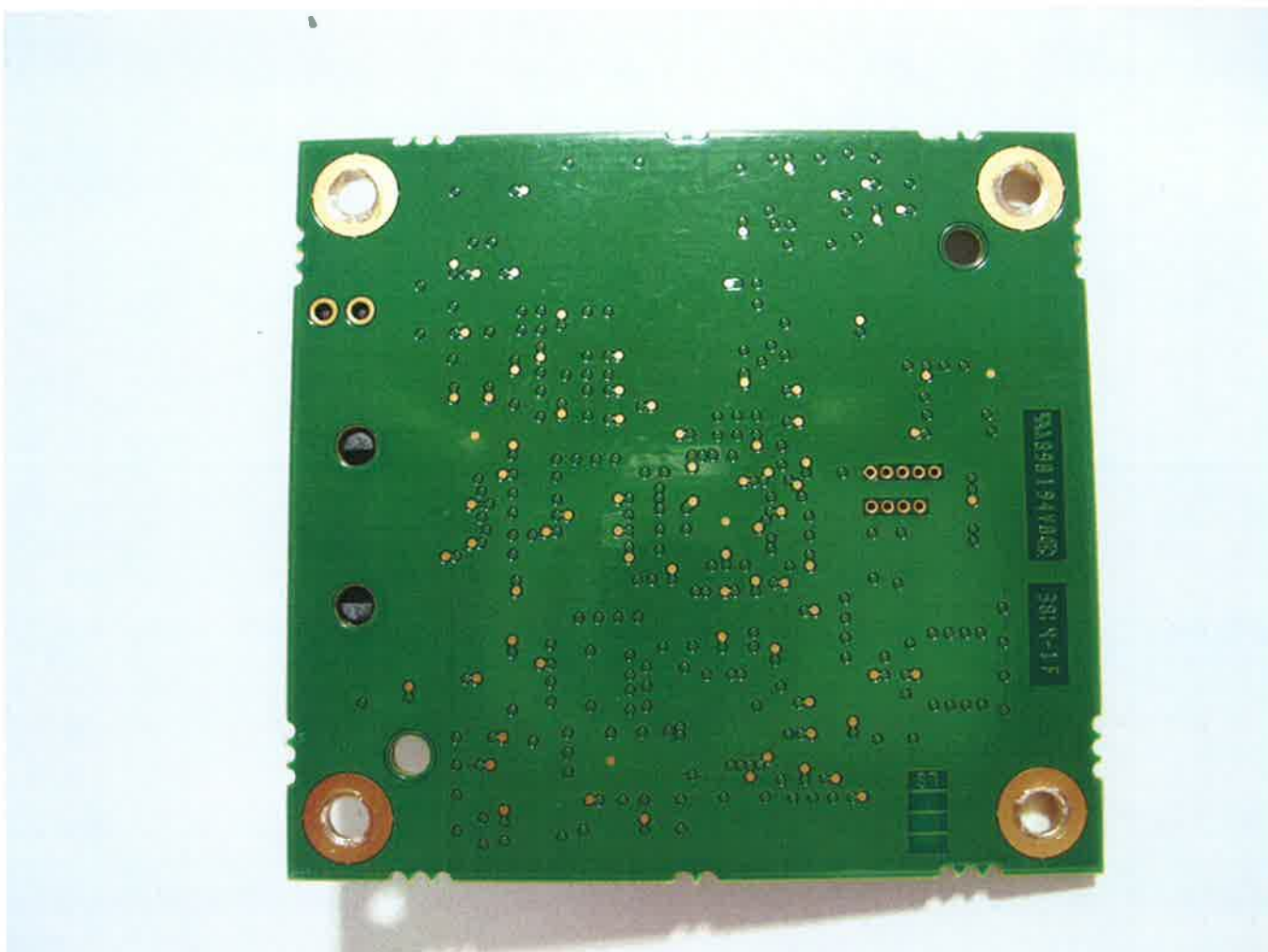
Department: FG

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checked by: 



Appendix 2

Photodocumentation

Description: Label of Panel used as Power Supply

Division Medical Technology/
Communication Technology/
EMC

Department: FG

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Appendix 2 Photodocumentation

Description: Test setup view #1

Division Medical Technology/
Communication Technology/
EMC

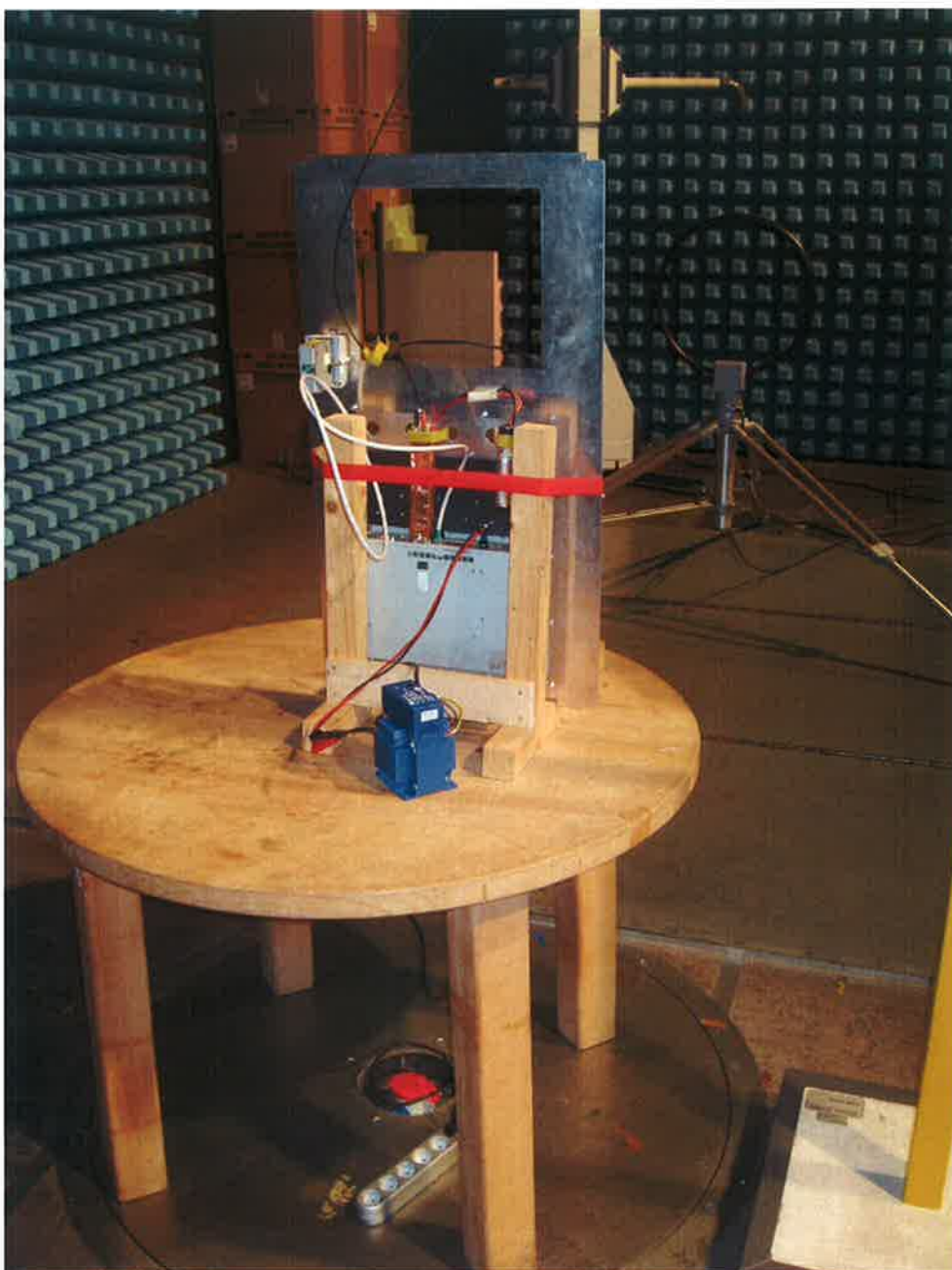
Department: FG

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checked by:



Appendix 2 Photodocumentation

Description: Test setup view #2

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EMC

Department: FG

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checked by: lu

