

TEST REPORT
of the accredited test laboratory

TÜV Nr.:INE-AT/FG-18/161

Applicant: KEBAAG
Gewerbepark Urfahr
A-4041 Linz

Tested Product: RFID reader module

FCC-ID: U870008

IC-ID: 20800-RFIDUNI

Manufacturer: See Applicant

Output power / 64,7 dBµV/m@ **power supply:** 5VDC
field strength: 3m distance

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

Standard: FCC: 47 CFR Part 15 (October 1, 2017 edition)
RSS-210 Issue 9, August 2016

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Test laboratory for EMC

Supervisor of EMC-laboratory:

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

Contents

	Designation	PAGE
1.	Applicant	3
2.	Description of EUT	4
3.	Standards / Final result	5
4.	Test results	
	List of measurements according to 47 CFR 15 and RSS-210	
4.1	Test object data	6
4.2	Field strength of emissions at 13,110 – 14,010 MHz	7
4.3	Emissions outside 13,110 – 14,010 MHz (15.209)	8-10
4.4	Frequency tolerance	*
Appendix	Designation	PAGES
1	Test equipment used	4
2	Photodocumentation	8

*) As no changes were made at the frequency determining stage, no measurement was performed. See original test report INE-AT/FG-17/142 for measurement results.

1. Applicant

Company: KEBAAG
Department: Development Center
Address: 4041 Linz/Austria, Gewerbepark Urfahr
Contact person: Mr. Christian Leitner

EUT received on: 17.09.2018

Tests were performed on: 17.09.2018

2. Description of EUT

EUT: RFID module "RFID UNI MODUL"

Serial Number: Prototype

Manufacturer: KEBAAG
4041 Linz/Austria, Gewerbepark Urfahr

Description: KEBA AG provided the following configuration for the measurements:

Prototype

Operating mode: The measurements were carried out at the following running states:
Continuous transmission – module folded

Technical data EUT: Rated voltage: 5VDC
Rated current: <1A
Rated frequency: DC
Mains voltage during the tests: 5V DC via USB connector

Climatic conditions in the emc laboratory: Relative humidity: 55%
Temperature: 23°C

3. Standards/ Final result

Name	Title	Deviation	Result
Title 47 CFR Part 15 October 1, 2017 edition	RADIO FREQUENCY DEVICES	none	OK
RSS-210 Issue 9 August 2016	Licence-Exempt Radio Apparatus: Category I Equipment	none	OK
Result: Opinions and interpretation of testing laboratory OK: EUT passed NOK: EUT failed			

This test report covers a change in equipment. As the RF part was not changed, not all measurements were performed and only unfolded module measurements were made, as those represented the worst case in the original test report INE-AT/FG-17/142.

4. Test results

4.1 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.

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 64,7 dB μ V/m field strength in 3m distance.

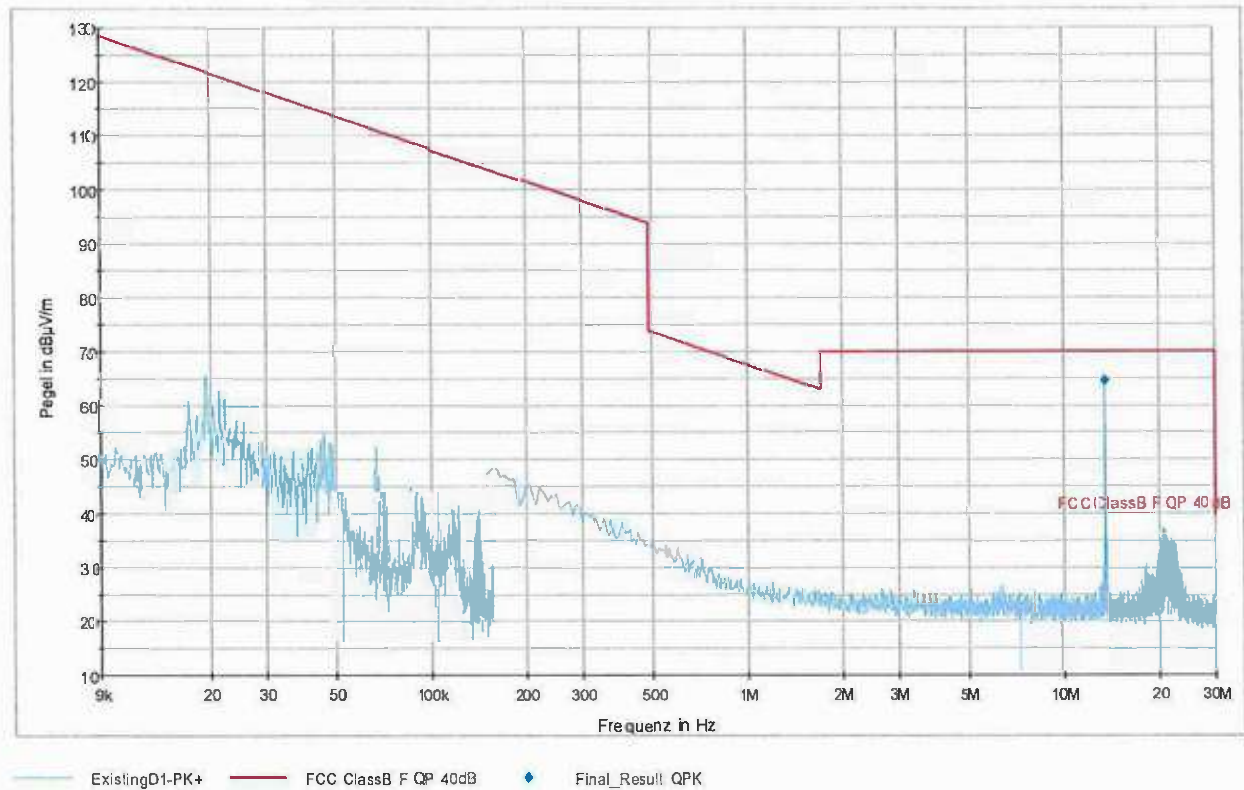
2.1033 (7) Maximum output power rating: 64,7 dB μ V/m@ 3m distance.

2.1033 (8) DC Voltage and Current: 5 V DC powered
Maximum current consumption: 50 mA

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

§ 15.225 (a) (b) (c)
B.6

Module unfolded



Field strength at 13,56 MHz: 64,7 dBµV/m $\approx$ 1718 µV/m at 3 m distance. Converted with 40dB per decade for the 30m Limit this would be a Level of 24,7 dBµV/m or 17,18 µV/m.

LIMIT SUBCLAUSE 15.225(a) (b) (c) (B.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.

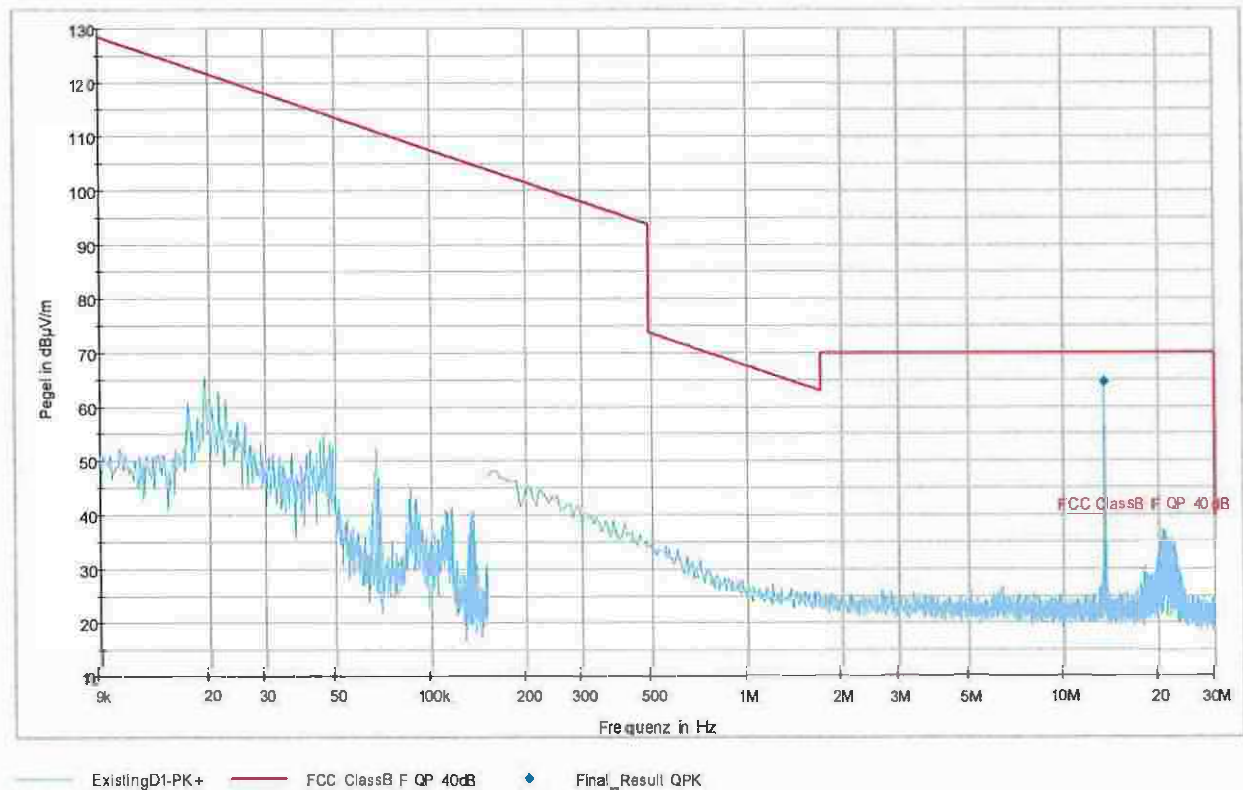
(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Test Equipment used: EMV-100; EMV-101; EMV-103; EMV-105; NT-122; NT-151; EMV-200

4.3 Emissions outside 13,110–14,010 MHz

§ 15.225 (d)
B.6

Module unfolded



LIMIT

SUBCLAUSE 15.225(d) (15.209) (B.6 / RSS-Gen)

(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.

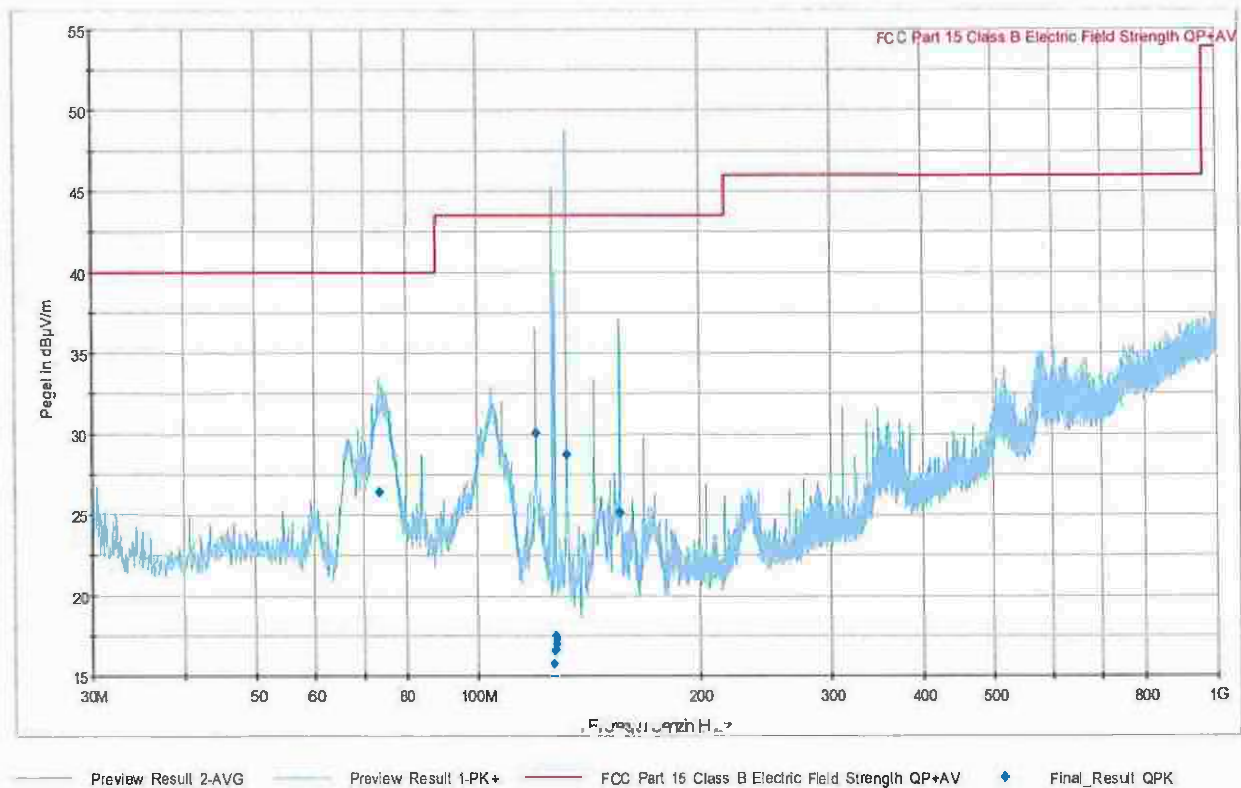
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Test Equipment used: EMV-100; EMV-101; EMV-103; EMV-105; NT-122; NT-151; EMV-200

Emissions outside 13,110 –14,010 MHz

§ 15.225 (d)
B.6

Module unfolded



Worst Case Quasipeak Level at 120,00 MHz: 30,07 dBµV/m@ 3m.

LIMIT SUBCLAUSE 15.225(d) (15.209) (B.6 / RSS-Gen)

(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.

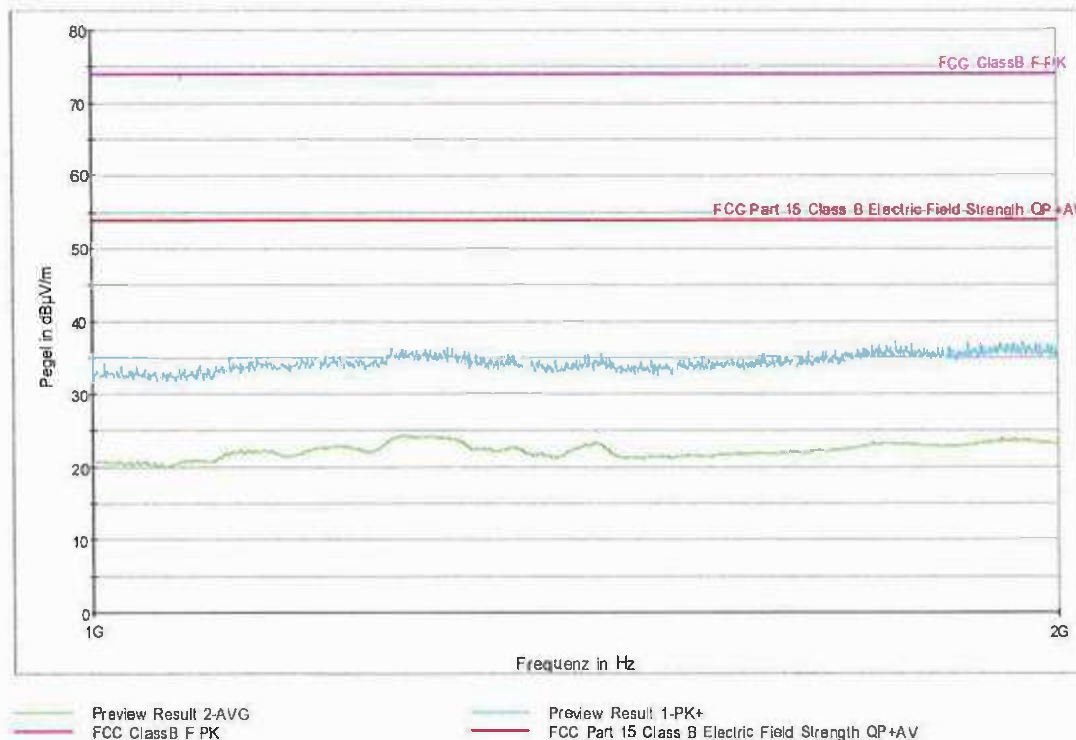
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Test Equipment used: EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-112; EMV-200

Emissions outside 13,110 –14,010 MHz

§ 15.225 (d)
B.6

Green line: Peak measurement; Magenta line: Average measurement



As the highest internal frequency of the digital control device is 320 MHz, measurements were performed up to 2 GHz. As the emissions below 1 GHz were quite the same if folded or unfolded, only unfolded module was measured above 1 GHz.

LIMIT

SUBCLAUSE 15.225(d) (15.209) (B.6 / RSS-Gen)

(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

TestEquipmentused: EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-110; EMV-111; EMV-200

Appendix 1

Test equipment used

☐ Anechoic Chamber with 3m measurement distance	NT-100	☐ Spectrumanalyzer – 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
☐ FMZB1513 – Loop Antenna 9 kHz - 30 MHz	NT-122/1	☐ 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
☐ VULB 9163 Trilog Antenna 30–3000 MHz	NT-131/1	☐ 1 kHz Sound calibrator	NT-225
☐ Loop Antenna H-Field	NT-132	☐ B10- Harmonics and flicker analyzer	NT-232
☐ Horn Antenna 500 MHz - 2900 MHz	NT-133	☐ SRM-3006 Spectrumanalyzer	NT-233/1a
☐ Horn Antenna 500 MHz - 6000 MHz	NT-133/1	☐ E-field probe SRM 75 MHz–3 GHz	NT-234
☐ Log. per. Antenna 800 MHz - 2500 MHz	NT-134	☐ Field Meter NBM-500 incl. E- and H-Field probes	NT-240a-e
☐ Log. per. Antenna 800 MHz - 2500 MHz	NT-135	☐ Hall-Teslameter ETM-1	NT-241
☐ BiConiLog Antenna 26 MHz – 2000 MHz	NT-137	☐ EFA-3 H-field- / E-field probe	NT-243
☐ Conical Dipol Antenna PCD8250	NT-138	☐ EHP-50F H-field- / E-field probe	NT-243/1
☐ HF 906 – Horn Antenna 1 - 18 GHz (emission)	NT-139	☐ Field Meter EMR-200 100 kHz – 3 GHz	NT-244
☐ HZ-1 Antenna tripod	NT-150	☐ E-field probe 100 kHz – 3 GHz	NT-245
☐ BN 1500 Antenna tripod	NT-151	☐ H-field probe 300 kHz – 30 MHz	NT-246
☐ Ant. tripod for EN61000-4-3 Model TP1000A	NT-156		
☐ Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-173		

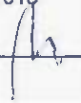
Division:
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Department: FG

Testreport number:
INE-AT/FG-18/161

Page: 1 of 4

Date: 17.09.2018

Checked by: 

Appendix 1 (continued) Test equipment used

☐ E-field probe 3 MHz – 18 GHz	NT-247	☐ 500W1000M7 - RF-Amplifier 80-1000 MHz/ 500 W	NT-332
☐ H-field probe 27 MHz – 1 GHz	NT-248	☐ AS0102-65R - RF-Amplifier 1 GHz - 2 GHz	NT-333
☐ ELT-400 1 Hz – 400 kHz	NT-249	☐ APA01 - RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
☐ MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250	☐ Preamplifier 1 GHz - 4 GHz	NT-335
☐ FCC-203I EM Injection clamp	NT-251	☐ Preamplifier for GPS MKU 152 A	NT-336
☐ FCC-203I-DCN Ferrite decoupling network	NT-252	☐ Preamplifier 100 MHz – 23 GHz	NT-337
☐ PR50 Current Probe	NT-253	☐ DC Block 10 MHz – 18 GHz Model 8048	NT-338
☐ i310s Current Probe	NT-254/1	☐ 2-97201 Electronic load	NT-341
☐ Fluke 87 V True RMS Multimeter	NT-260	☐ TSX351 0P - Power supply 0-30 V / 0-10 A	NT-344
☐ Model 2000 Digital Multimeter	NT-261	☐ TSX3510P - Power supply 0-30 V / 0-10 A	NT-345
☐ Fluke 87 V Digital Multimeter	NT-262/1	☐ VDS 200 Mobil-impuls-generator	NT-350
☐ ESH2-Z5-U1 Artificial mains network 4x25A	NT-300	☐ LD 200 Mobil-impuls-generator	NT-351
☐ ESH3-Z5-U1 Artificial mains network 2x10A	NT-301	☐ MPG 200 Mobil-Impuls-Generators	NT-352
☐ ESH3-Z6-U1 Artificial mains network 1x100A	NT-302	☐ EFT 200 Mobil-impuls-generator	NT-353
☐ ESH3-Z6-U1 Artificial mains network 1x100A	NT-302a	☐ AN 200 S1 Artificial Network	NT-354
☐ PHE 4500/B Power amplifier	NT-304	☐ FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
☐ EZ10 T-Artificial Network	NT-305	☐ PHE 4500 - Mains impedance network	NT-401
☐ SMG - Signal generator 0,1 - 1000 MHz	NT-310	☐ IP 6.2 Coupling filter for data lines (Surge)	NT-403
☐ SMA100A - Signalgenerator 9 kHz - 6 GHz	NT-310/1	☐ TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
☐ RefRad Reference generator	NT-312	☐ ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
☐ SMP 02 Signal generator 10 MHz - 20 GHz	NT-313	☐ IP 4 - Capacitive clamp (Burst)	NT-411
☐ 40 MHz Arbitrary Generator TGA1241	NT-315	☐ Highpass-Filter 100 MHz – 3 GHz	NT-412
☐ Artificial mains network NSLK 8127-PLC	NT-316	☐ 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		
☐ VCS 500-M6 Surge-Generator	NT-326		
☐ Oscillatory Wave Simulator incl. Coupling networks	NT-328a+b+c		
☐ BTA-250 - RF-Amplifier 9 kHz - 220 MHz/ 250 W	NT-330		
☐ T82-50 RF-Amplifier 2 GHz – 8 GHz	NT-331		

Division:
Industry & Energy

Department: FG

Testreport number:
INE-AT/FG-18/161

Page: 2 of 4

Date: 17.09.2018

Checked by: 

Appendix 1 (continued) Test equipment used

☐ Highpass-Filter 3500 MHz – 18 GHz	NT-416	☐ FCC-801-AF10 Coupling decoupling network	NT-461
☐ RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417	☐ FCC-801-S25 Coupling decoupling network	NT-462
☐ RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418	☐ FCC-801-T4 Coupling decoupling network	NT-463
☐ RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419	☐ FCC-801-C1 Coupling decoupling network	NT-464
☐ RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421	☐ SW 9605 - Current probe 150 kHz – 30 MHz	NT-465/1
☐ RF-Attenuator 30 dB DC-1000 MHz / 1 W	NT-423	☐ 95242-1 -- Current probe 1 MHz – 400 MHz	NT-468
☐ RF-Attenuator 30 dB	NT-424	☐ 94106-1 L-1 – Current probe 100 kHz – 450 MHz	NT-471
☐ RF-Attenuator 6 dB DC -1000 MHz / 1 W	NT-425	☐ GA 1240 Power amplifier according to EN 61000-4-16	NT-480
☐ RF-Attenuator 6 dB DC-1000 MHz / 1 W	NT-426	☐ Coupling networks according to EN 61000-4-16	NT-481 - NT-483
☐ RF-Attenuator 6 dB	NT-428	☐ Van der Hoofden Test Head	NT-484
☐ RF-Attenuator 0 dB - 81 dB	NT-429	☐ EMC Video/Audiosystem	NT-511/1
☐ WRU 27 - Band blocking 27 MHz	NT-430	☐ ES-K1 Version 1.71 SP2 Test software	NT-520
☐ WHJ450C9 AA - High pass 450 MHz	NT-431	☐ EMC32 Version 10.40.00 Test software	NT-520/1
☐ WHJ250C9 AA - High pass 250 MHz	NT-432	☐ SRM-TS Version 1.3 software for SRM-3000	NT-522
☐ RF-Load 150W	NT-433	☐ SRM-TS Version 1.3.1 software for SRM-3006	NT-522/1
☐ Impedance transducer 1:4; 1:9; 1:16	NT-435	☐ Spitzenberger und Spies Testsoftware V4.1	NT-525
☐ RF-Attenuator DC – 18 GHz 6 dB	NT-436	☐ Noise powertest apparatus according to EN 55014	NT-530
☐ RF-Attenuator DC – 18 GHz 6 dB	NT-437	☐ Vertical coupling plane (ESD)	NT-531
☐ RF-Attenuator DC – 18 GHz 10 dB	NT-438	☐ Test cable #4 for EN 61000-4-6	NT-553
☐ RF-Attenuator DC – 18 GHz 20 dB	NT-439	☐ Test cable #3 for conducted emission	NT-554
☐ I+P 7780 Directional coupler 100 - 2000 MHz	NT-440	☐ Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
☐ ESH3-Z2 - Pulse limiter 9 kHz-30 MHz	NT-441	☐ Test cable #8 Sucoflex 104EA	NT-559
☐ Power Divider 6 dB/1 W/50 Ohm	NT-443	☐ Test cable #9 (for outdoor measurements)	NT-580
☐ Directional coupler 0,1 MHz – 70 MHz	NT-444	☐ Test cable #10 (for outdoor measurements)	NT-581
☐ Directional coupler 0,1 MHz – 70 MHz	NT-445	☐ Test cable #13 Sucoflex 104PE	NT-584
☐ Tube imitations according to EN 55015	NT-450	☐ Test cable #21 for SRM-3000	NT-592
☐ FCC-801-M3-16A Coupling decoupling network	NT-458	☐ Shield chamber	NT-600
☐ FCC-801-M2-50A Coupling decoupling network	NT-459	☐ Climatic chamber	M-1200
☐ FCC-801-M5-25 Coupling decoupling network	NT-460		

Division:
Industry & Energy

Department: FG

Test report number:
INE-AT/FG-18/161

Page: 3 of 4

Date: 17.09.2018

Checked by: 

Appendix 1 (continued)

Test equipment used

☐	Anechoic Chamber 3 m / 5 m measuring distance	EMV-100	☐	Logger Antenna 0,7 – 9 GHz STLP9149	EMV-305
☐	Turntable 6 m diameter	EMV-101	☐	HF- Amplifier 9 kHz-250 MHz BBA 150 (low noise)	EMV-306
☐	Antenna mast 1 – 4 m	EMV-102	☐	Load Dump Generator LD 200N	EMV-350
☐	Mast and Turntable controller FC-06	EMV-103	☐	Ultra Compact Symulator UCS 200N100	EMV-351
☐	EMC Video/Audiosystem	EMV-104	☐	Automotive Power fail module PFM 200N100.1	EMV-352
☐	EMC Software EMC32 Version 10.40.00	EMV-105	☐	Voltage Drop Symulator VDS 200Q100	EMV-353
☐	Hornantenna 1 – 18 GHz HF 907	EMV-110	☐	Arb. Generator AutoWave	EMV-354
☐	Antennapre.amp. 1 – 18 GHz ERZ-LNA0200-1800-30-2	EMV-111	☐	Ultra Compact Symulator UCS 500N7	EMV-355
☐	Trilog Antenna 30-3000 MHz VULB9163	EMV-112	☐	Coupling decoupling network CNI 503B7 / 32 A	EMV-356
☐	Monopol 9 kHz – 30 MHz VAMP 9243	EMV-113	☐	Coupling decoupling network CNI 503B7 / 63 A	EMV-357
☐	Antennapre.amp 18 – 40 GHz BBV 9721	EMV-114	☐	Telecom Surge Generator TSurge 7	EMV-358
☐	Hornantenna 200 – 2000 MHz AH-220	EMV-110	☐	Coupling decoupling network CNI 508N2	EMV-359
☐	DC Artificial Network PVDC 8300	EMV-150	☐	Coupling decoupling network CNV 504N2.2	EMV-360
☐	AC Artificial Network NNLK 8121 RC	EMV-151	☐	Immunity generator NSG4060/NSG4060-1	EMV-361
☐	EMI Receiver ESR26	EMV-200	☐	Coupling network CDND M316-2	EMV-362
☐	Signalgenerator 9 kHz – 40 GHz N5173B	EMV-201	☐	Coupling network CT419-5	EMV-363
☐	GPS Frequency normal B-88	EMV-202	☐	ESD Generator NSG437	EMV-364
☐	DC Power supply N5745A	EMV-203	☐	Pulse Limiter VTSD 9561-F BNC	EMV-405
☐	Spektrum Analyzator FSV40	EMV-205	☐	Transient emission BSM200N40+BS200N100	EMV-450+451
☐	Thd Multimeter Model 2015	EMV-206	☐	Cap. Coupling Clamp HFK	EMV-455
☐	Poweramplifier PAS15000	EMV-207/abc	☐	Mag. Field System MS 100N+MC26100+MC2630	EMV-456-458
☐	Inrush Current Source	EMV-208/abc	☐	Coupling network CDN M2-100A	EMV-459
☐	Arb.-generator Sycore	EMV-209	☐	Coupling network CDN M3-32A	EMV-460
☐	Harmonics/Flicker analyzer ARS 16/3	EMV-210	☐	Coupling network CDN M5-100A	EMV-461
☐	HF- Amplifier 9 kHz-250 MHz BBA150	EMV-300	☐	Current Clamp CIP 9136A	EMV-462
☐	HF- Amplifier 80 -1000 MHz BBA150	EMV-301	☐	DC Artificial Network HV-AN 150	EMV-464+465
☐	HF- Amplifier 0,8 - 6 GHz BBA150	EMV-302	☐	Coupling Clamp EM 101	EMV-466
☐	High Power Ant. 20-200 MHz VHBD 9134	EMV-303	☐	Decoupling Clamp FTC 101	EMV-467
☐	Logger Antenna 80-2700 MHz STLP 9128 E special	EMV-304	☐	Power attenuator 10 dB / 250 Watt	EMV-469/2

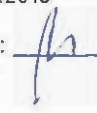
Division:
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Department: FG

Test report number:
INE-AT/FG-18/161

Page: 4 of 4

Date: 17.09.2018

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Appendix 2 Photodocumentation

Description: Module unfolded - view #1

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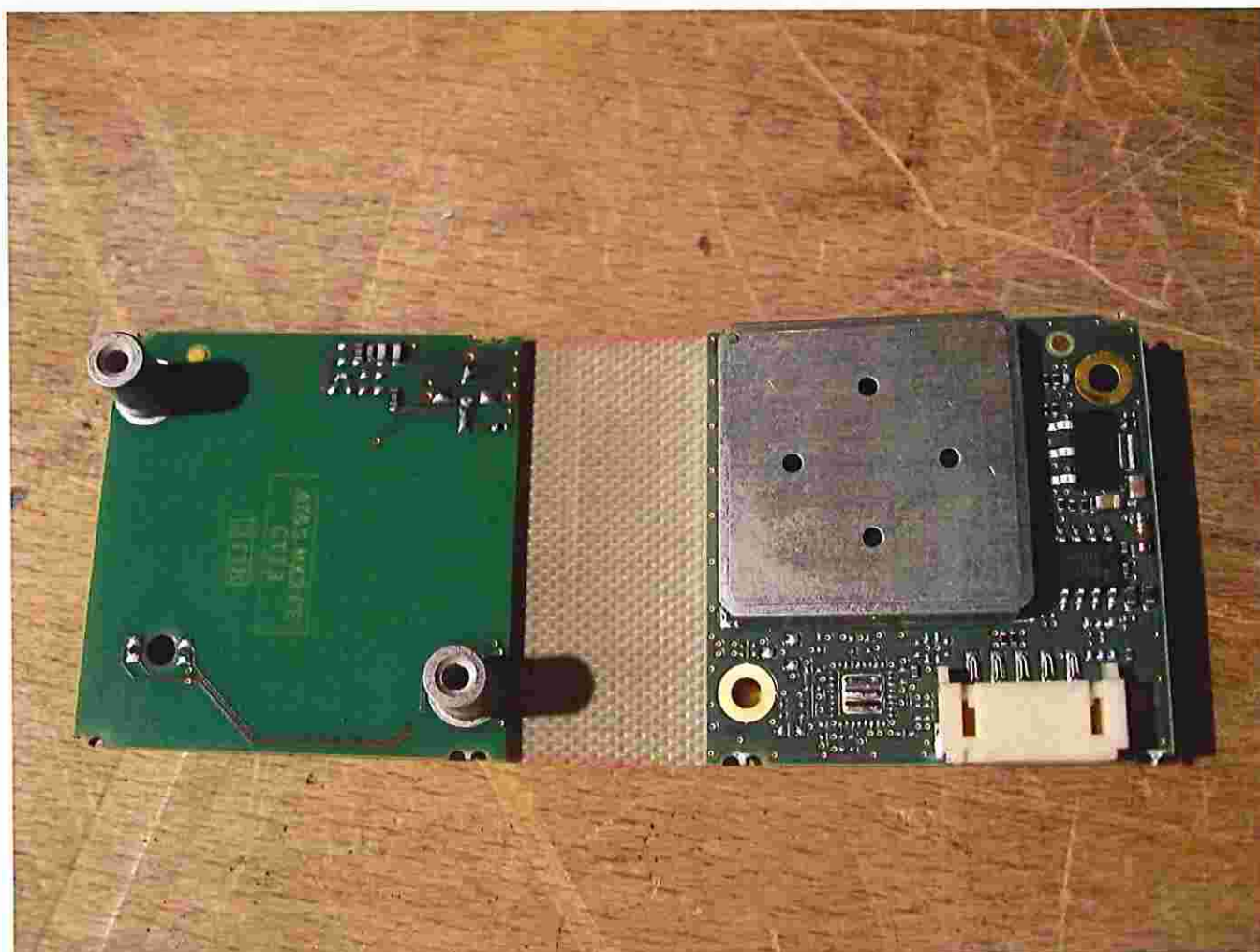
Department: FG

Testreport reference:
INE-AT/FG-18/161

Page: 1 of 8

Date: 17.09.2018

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Appendix 2 Photodocumentation

Description: Module unfolded - view #2

Division:
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Department: FG

Testreport reference:
INE-AT/FG-18/161

Page: 2 of 8

Date: 17.09.2018

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Appendix 2 Photodocumentation

Description: RF shielding detached

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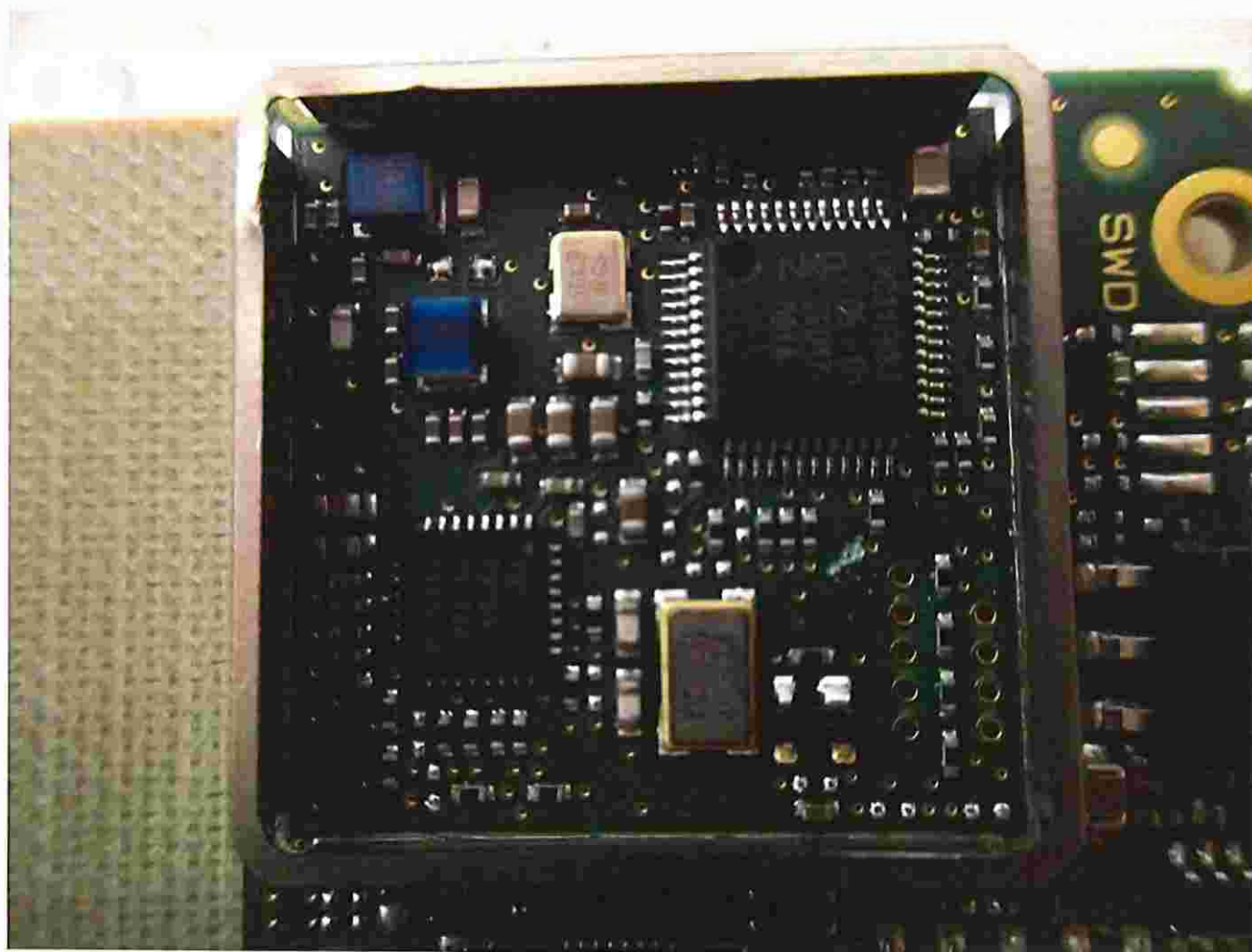
Department: FG

Testreport reference:
INE-AT/FG-18/161

Page: 3 of 8

Date: 17.09.2018

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Appendix 2 Photodocumentation

Description: Testsetup emissions below 30 MHz

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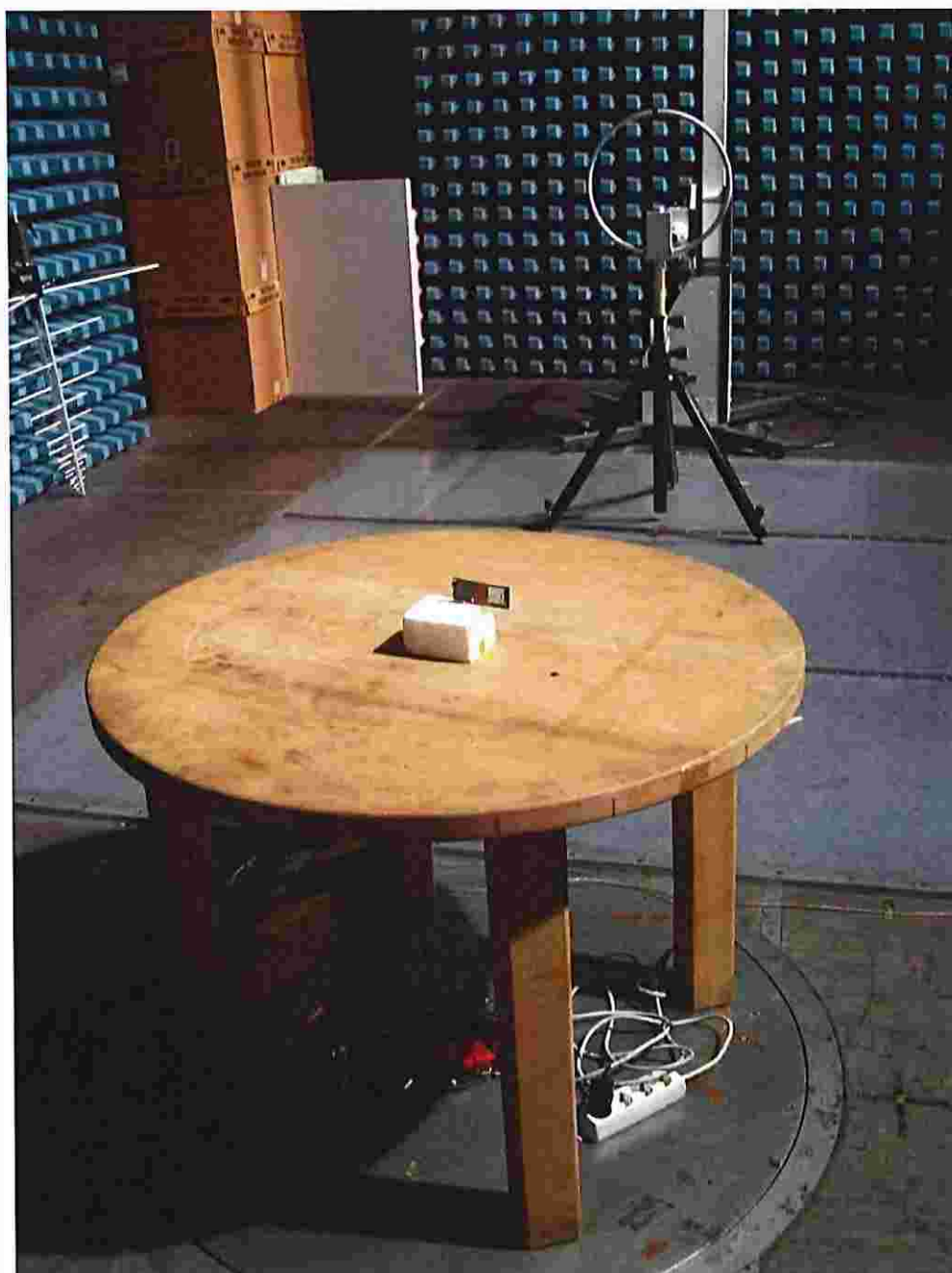
Department: FG

Test report reference:
INE-AT/FG-18/161

Page: 4 of 8

Date: 17.09.2018

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Appendix 2 Photodocumentation

Description: Testsetup emissions 30 - 1000 MHz -
module unfolded

Division:
Industry & Energy

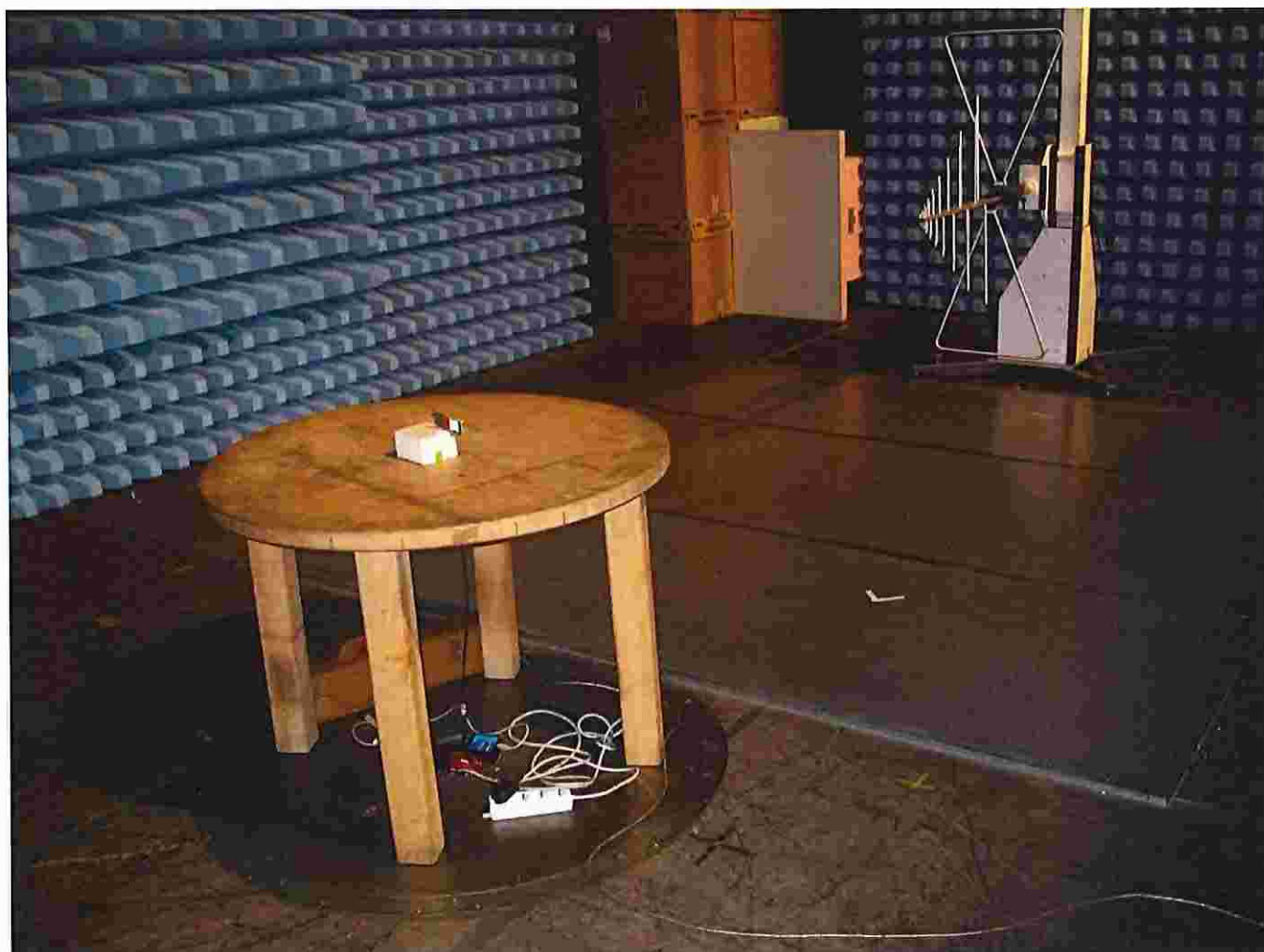
Department: FG

Testreport reference:
INE-AT/FG-18/161

Page: 5 of 8

Date: 17.09.2018

checked by: 



Appendix 2 Photodocumentation

Description: Testsetup emissions 30 - 1000 MHz -
module folded

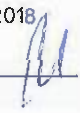
Division:
Industry & Energy

Department: FG

Testreport reference:
INE-AT/FG-18/161

Page: 6 of 8

Date: 17.09.2018

checked by: 



Appendix 2 Photodocumentation

Description: Testsetup – view #1

Division:
Industry & Energy

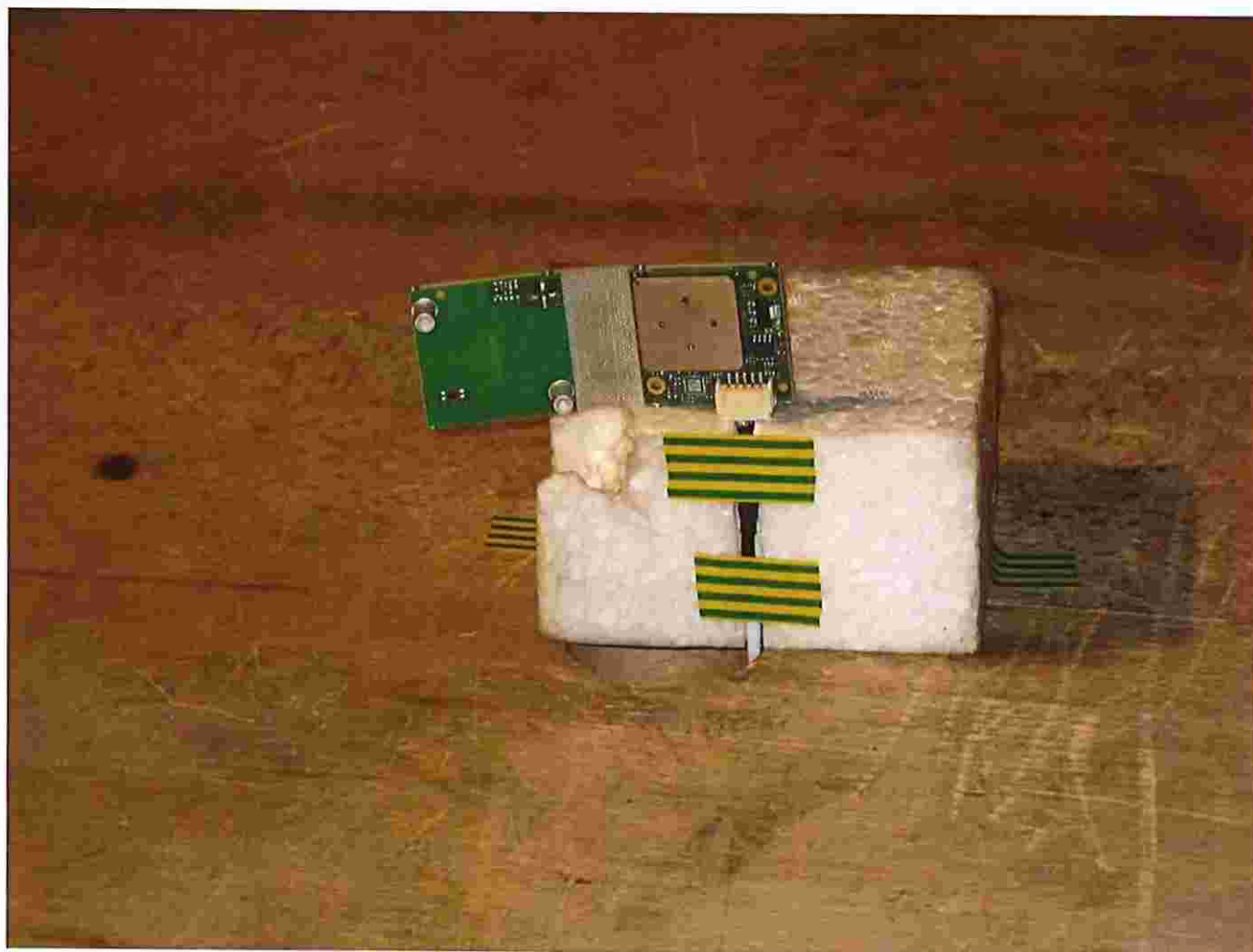
Department: FG

Testreport reference:
INE-AT/FG-18/161

Page: 7 of 8

Date: 17.09.2018

checked by: 



Appendix 2 Photodocumentation

Description: Testsetup – view #2

Division:
Industry & Energy

Department: FG

Testreport reference:
INE-AT/FG-18/161

Page: 8 of 8

Date: 17.09.2018

checked by: 