



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 dBuV/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

TUV Austria Services GmbH Test laboratory for EMC

Supervisor of EMC-laboratory:

fing. Wilhelm Seier

17.09.2018

Copy Nbr.:

effecked by

Ing. Michael Emminger

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



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Business Area Industry & Energy Austria

Technik



Testing Laboratory, Inspection Body, Certification Body, Calibration Laboratory, Verifizierungsstelle

Notified Body 0408 IC 2932K-1

Non-executive Board of Directors: KR Di Johann Marihart

Management: DI Dr. Stefan Haas Mag. Christoph Wenninger

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Branch Offices: www.tuv.at/standorte

Company Register Court / - Number: Vienna / FN 288476 f

Bank Details: IBAN AT1 31200052949001 06 **BIC BKAUATWW**

AT15310000010409328 **BIC RZBAATWW**

VAT ATU63240488 DVR 3002476

Ambient temperature: 23°C

Relative humidity: 55%



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^{*)} 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.

Ambient temperature: 23°C

Relative humidity: 55%



Applicant 1.

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

Ambient temperature: 23°C

Relative humidity: 55%



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:



3. Standards/ Final result

Name Title		Deviation	Result	
Title 47 CFR Part 15 October 1, 2017 edition	RADIO FREQUENCY DEVICES	none	ОК	
RSS-210 Issue 9 August 2016	Licence-Exempt Radio Apparatus: Category Equipment	none	ОК	

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 dBµV/m field strength in 3m distance.
- 2,1033 (7) Maximum output power rating: 64,7 dBµV/m@ 3m distance.
- 2,1033 (8) DC Voltage and Current: 5 V DC powered

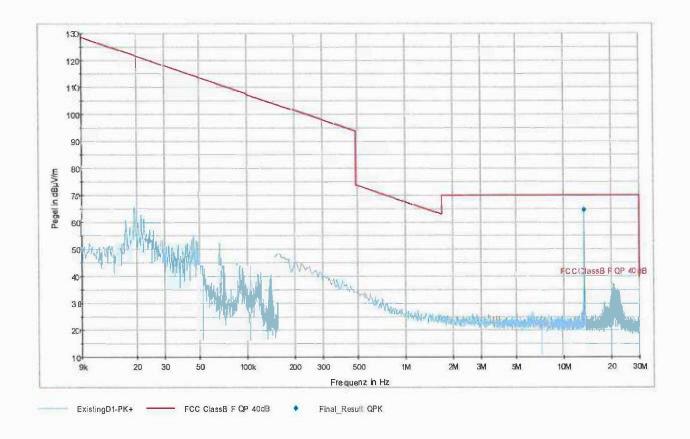
maximum current consumption: 50 mA



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 dB μ V/m = 1718 μ V/m at 3 m distance. Converted with 40dB per decade for the 30m Limit this would be a Level of 24,7 dB μ V/m or 17,18 μ V/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.

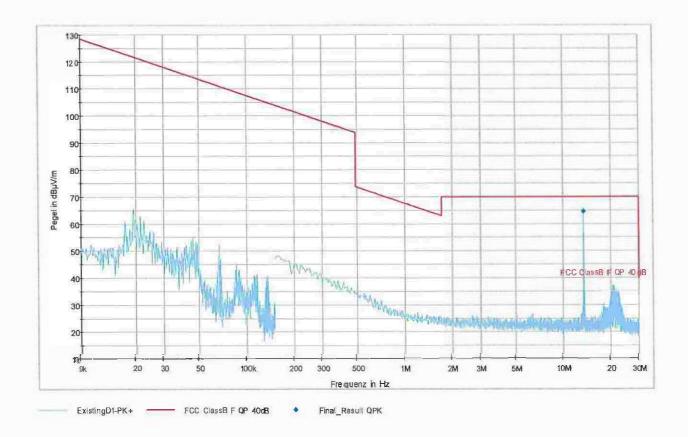
Test Equipment used; EMV-100; EMV-101; EMV-103; EMV-105; NT-122; NT-151; EMV-200

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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

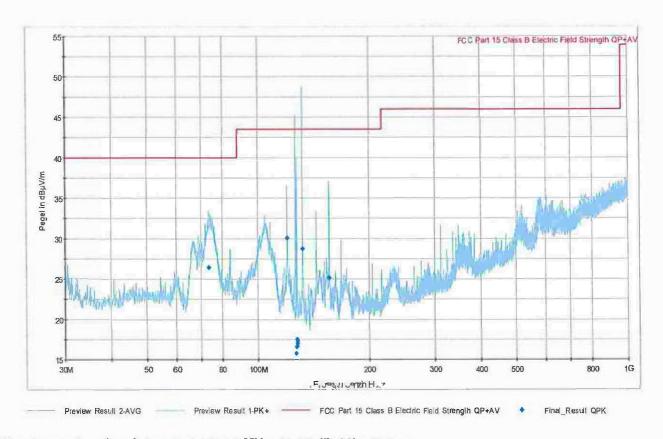
Test Equipment used: EMV-100; EMV-101; EMV-103; EMV-105; NT-122; NT-151; EMV-200



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)
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1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

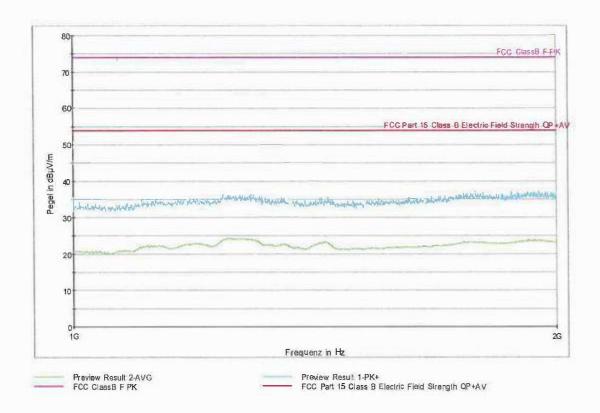
Test Equipment used: EMV-100; EMV-101; EMV-102; EMV-103; EMV-105; EMV-112; EMV-200



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
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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



F1	Annal de Ol Company	T	are an area was	
	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	MixerM28HW 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 18-40GHz	NT-126	Radiocommunicationanalyzer 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	The second secon	
	Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-1 ⁷ 3		

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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	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-203l 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 0-3 0 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 2x1 0A	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	9	
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		

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Appendix 1 (continued) Test equipment used



Highpass-Filter 3500 MHz ~18 GHz	NT-416	FCC-801-AF10 Coupling decoupling network	NT-461	Division: Industry & Energy
RF-Attenuator 10 dB DC-18 GHz/50 W	NT-417	FCC-801-S25 Coupling decoupling network	NT-462	
RF-Altenuator 6 dB DC-18 GHz/50 W	NT-418	FCC-801-T4 Coupling decoupling network	NT-463	Department: FG Test report number:
RF-Attenuator 3 dB DC-18 GHz/50W	NT-419	FCC-801-C1 Coupling decoupling network	NT-464	INE-AT/FG-18/161
RF-Attenuator 20 dB DC - 1000 MHz/ 25 W	NT-421	SW 9605 - Current probe 150 kHz 30 MHz	NT-465/1	Page: 3 of 4 Date: 17.09.2018
RF-Attenuator 30 dB DC-1000 MHz/ 1 W	NT-423	95242-1 Current probe 1 MHz 400 MHz	NT-468	Checked by:
RF-Attenuator 30 dB	NT-424	94106-1 L-1 — Current probe 100 kHz — 450 MHz	NT-471	V
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 6dB	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 6dB	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	.30
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			

Appendix 1 (continued) Test equipment used



Anechoic Chamber 3 m / 5 m measuring distance	EMV-100	Log.per Antenna 0,7 –9 GHz STLP9149	EMV-305	Division: Industry & Energy
Turntabel 6 m diameter	EMV-101	HF- Ampflifier 9 kHz-250 MHz BBA150 (low noise)	EMV-306	Department: FG
Antenna mast	EMV-102	Load Dump Generator LD 200N	EMV-350	Test report number
Mast and Turntable controller FC-06	EMV-103	Ultra Compact Symulator UCS 200N100	EMV-351	INE-AT/FG-18/161 Page: 4 of 4
EMC Video/Audiosystem	EMV-104	Automotive Power fail module PFM 200N100.1	EMV-352	Date: 17.09.2018
EMC Software EMC32 Version 10.40.00	EMV-105	Voltage Drop Symulator VDS 200Q100	EMV-353	Checked by:
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	
Arbgenerator	EMV-209	Coupling network CDN M3-32A	EMV-460	
Sycore Harmonics/Flicker analyzer ARS 16/3	EMV-210	Coupling network CDN M5-100A	EMV-461	
HF- Ampflifier 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	EMV-302	Coupling Clamp EM 101	EMV-466	
BBA150 High Power Ant. 20-200 MHz VHBD 9134	EMV-303	Decoupling Clamp FTC 101	EMV-467	
Log.per Antenna 80-2700 MHz STLP 9128 E special	EMV-304	Power attenuator 10 dB / 250 Watt	EMV-469/2	2

Description: Module unfolded - view #1

Division: Industry & Energy

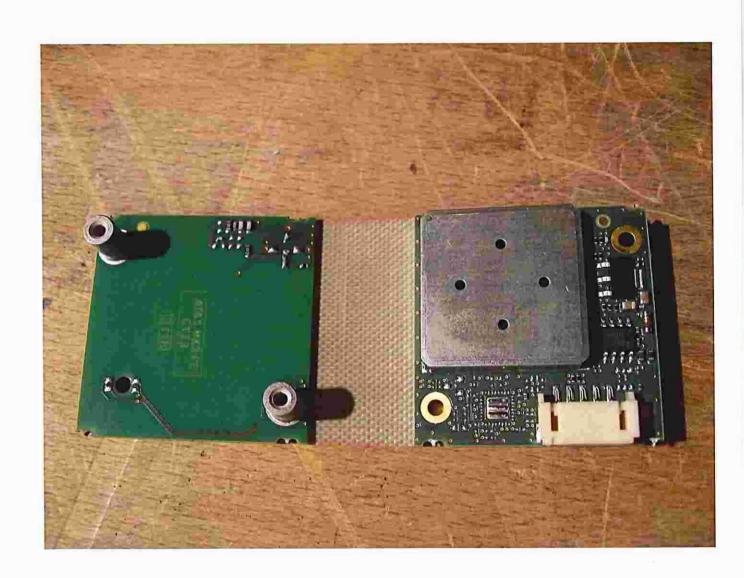
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Description: Module unfolded - view #2

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Description: RF shielding detached

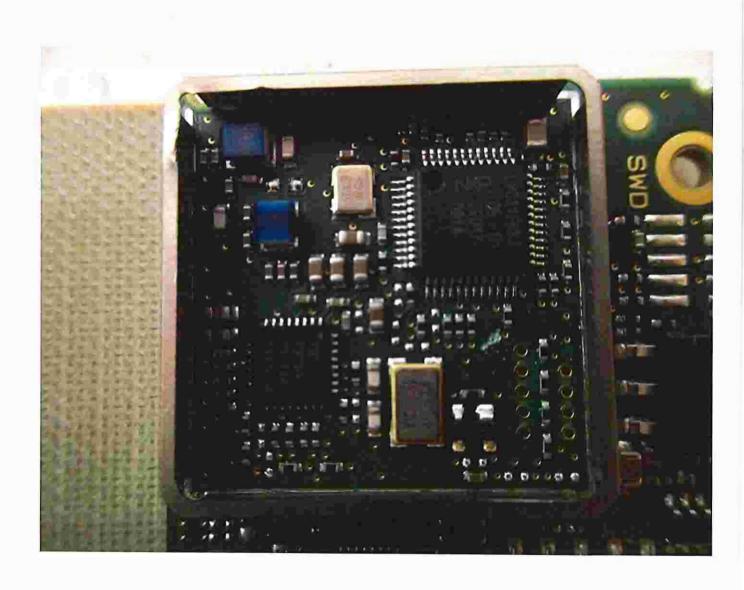
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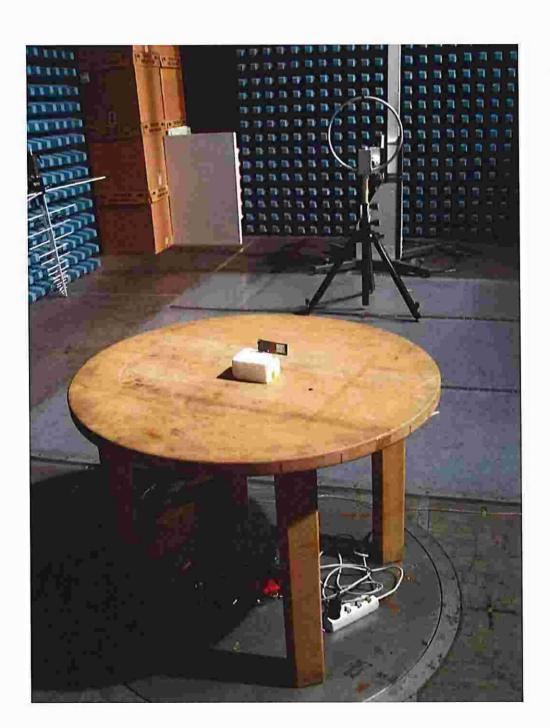








Description: Testsetup emissions below 30 MHz



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Description: Testsetup emissions 30 - 1000 MHz - module unfolded

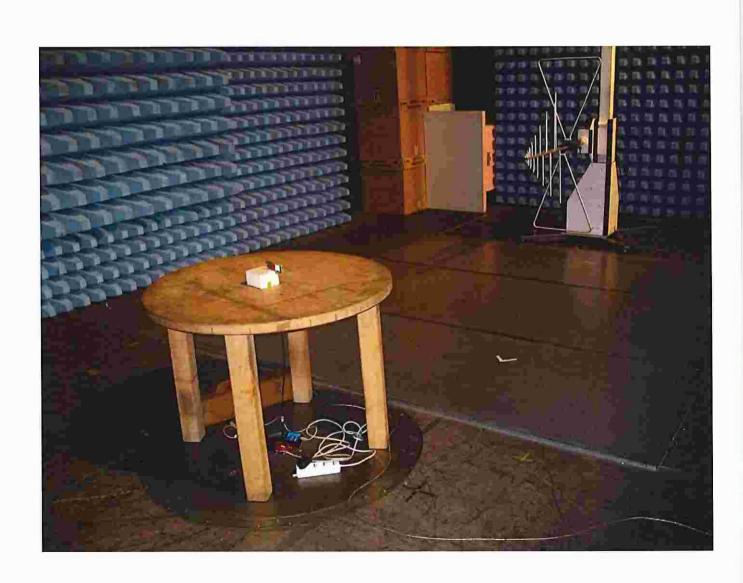
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Description: Testsetup emissions 30 - 1000 MHz - module folded

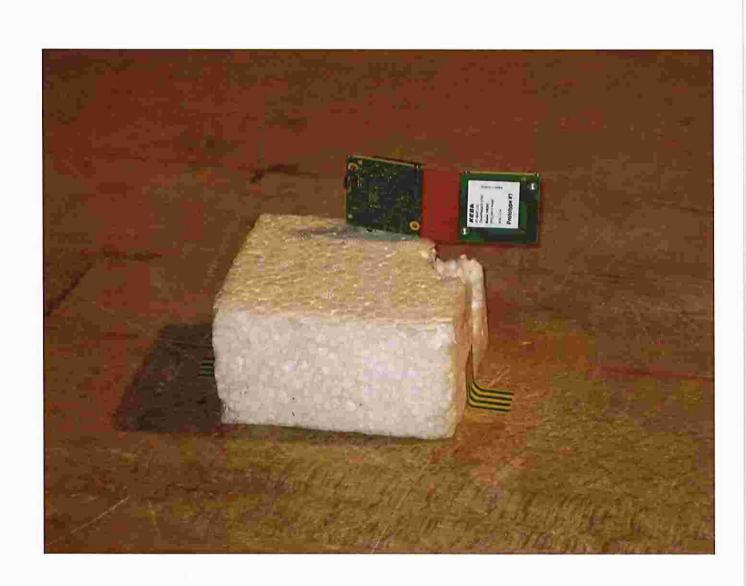
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Description: Testsetup - view #1

Division: Industry & Energy

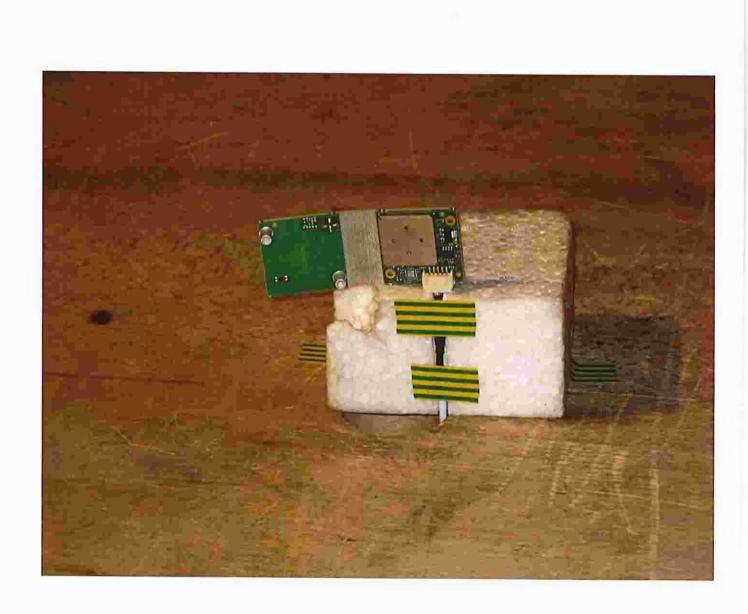
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Description: Testsetup - view #2

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