



TEST REPORT

Test report no.: 1-5610/12-01-03-A



Testing laboratory

CETECOM ICT Services GmbH

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Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with

the registration number: D-PL-12076-01-01 Area of Testing: Radio/Satellite Communications

Applicant

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Manufacturer

Technic-Center Frankenberg/Sa Engineering GmbH

Lerchenstraße 25

09669 Frankenberg/Sa / GERMANY

Test standard/s

47 CFR Part 15 Title 47 of the Code of Federal Regulations; Chapter I

Part 15 - Radio frequency devices

RSS - 210 Issue 8 Spectrum Management and Telecommunications - Radio Standards Specification

Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands):

Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Master CPU with integrated RFID unit

Model name: KCPU 1

FCC ID: ZP966831810999
IC: 9752A-66831810999

Frequency: 13.56 MHz
Technology tested: RFID

Antenna: Integrated loop antenna

Power Supply: 14 V DC by external power supply

Temperature Range: -20°C to +50°C



This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorised:	Test performed:
Christoph Schneider Expert	Marco Bertolino Testing Manager

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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

Date of receipt of order: 2012-11-27
Date of receipt of test item: 2013-01-28
Start of test: 2013-01-28
End of test: 2013-01-31

Person(s) present during the test: -/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	2012-10	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	2010-12	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

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4 Test environment

T_{nom} +22 °C during room temperature tests

Temperature: T_{max} +50 °C during high temperature tests

T_{min} -20 °C during low temperature tests

Relative humidity content: 43 %

Barometric pressure: not relevant for this kind of testing

 V_{nom} 14 V DC by external power supply

Power supply: V_{max} 15 V

 V_{min} 13 V

5 Test item

Kind of test item :		Master CPU with integrated RFID unit	
Type identification :		KCPU 1	
S/N serial number :		#10	
HW hardware status :		1.01	
SW software status :		1.01	
Frequency band [MHz] :		13.56	
Type of radio transmission	:	single carrier	
Use of frequency spectrum	:		
Type of modulation :		ASK	
Number of channels :		1	
Antenna :		Integrated loop antenna	
Power supply :		14 V DC by external power supply	
Temperature range :		-20 °C to +50 °C	

5.1 Additional comments

Reference documents: SEC PDC-K 2012-11-29

Special test descriptions: None

Configuration descriptions: None

6 Test laboratories sub-contracted

None

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No deviations from the technical specifications were ascertained
There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 8, Annex 2.6	Passed	2013-05-28	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Remark
§ 15.35 (c)/ RSS-GEN Issue 3	Timing of the transmitter (Duty cycle correction factor)	Nominal	Nominal					complies
RSS-GEN Issue 3	99 % emission bandwidth	Nominal	Nominal					complies
§ 15.225 (a)/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of Fundamental	Nominal	Nominal					complies
§ 15.209/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal					complies
§ 15.225 (e)/		Nominal	Extreme					
RSS-210 Issue 8 Annex 2.6	Frequency tolerance	Extreme	Nominal					complies
§15.107	Conducted emissions < 30 MHz	Nominal	Nominal	\boxtimes				complies

Note: NA = Not Applicable; NP = Not Performed

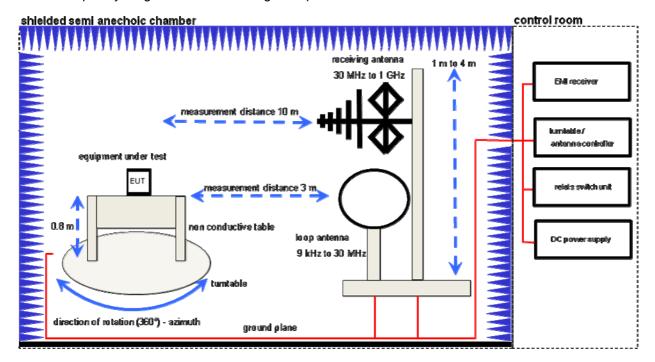
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8 Description of the test setup

8.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368
DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580
EMI Test Receiver	ESCI 3	R&S	100083	300003312
Amplifier	JS42-00502650-28-5A	MITEQ	1084532	300003379
Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745
Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746
Turntable Interface- Box	Model 105637	ETS-LINDGREN	44583	300003747
TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787
Test Receiver	ESH2	R&S	871921/095	300002505
Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824
EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059

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8.2 AC conducted



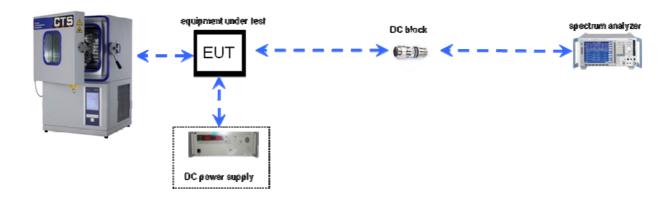
Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405
Isolating Transformer	MPL IEC625 Bus Regeltrenntravo	Erfi	91350	300001155
Switch / Control Unit	3488A	HP Meßtechnik	*	300000199
Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001168
Artificial Mains 9 kHz to 30 MHz	ESH3-Z5	R&S	828576/020	300001210

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8.3 Conducted measurements



Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
DC Power Supply 0 – 32V			001802	300001383
Temperature Test Chamber	T-40/50	CTS GmbH	064023	300003540
Spectrum Analyzer 20 Hz - 50 GHz	FSU50	R&S	200012	300003443

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9 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-5610/12-01-03-A
Equipment Model Number	:	KCPU 1
Certification Number	:	9752A-66831810999
Manufacturer (complete Address)	:	Technic-Center Frankenberg/Sa Engineering GmbH Lerchenstraße 25 09669 Frankenberg/Sa / GERMANY
Tested to radio standards specification no.	:	RSS 210, Issue 8, A2.6
Open Area Test Site IC No.	:	IC 3462C-1
Frequency Range or fixed frequency	:	13.56 MHz
Field Strength [dBµV/m] (at which distance)	:	64.5 @ 10 m
Occupied bandwidth (99%-BW) [kHz]:		582
Type of modulation	:	NON
Emission Designator (TRC-43)	:	582KN0N
Antenna Information	:	Integrated loop antenna
Transmitter Spurious (worst case) [dBµV/m @ 3m]	:	33.7 dBμV/m @ 732.2 MHz QP

ATTESTATION: DECLARATION OF COMPLIANCE:

I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

Laboratory Manager:

2013-05-28	Marco Bertolino			
Date	Name	Signature		

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10 Measurement results

10.1 Timing of the transmitter

Measurement:

Measurement parameter				
Detector:	Positive peak			
Sweep time:	100 ms			
Resolution bandwidth:	100 kHz			
Video bandwidth:	300 kHz			
Span:	Zero span			
Trace-Mode:	Single sweep			

Limits:

FCC	IC					
Timing of the transmitter						

(c) Unless otherwise specified, e.g. Section 15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

Duty cycle 100 %

Result: passed

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10.2 Field strength of the fundamental

Measurement:

Measurement parameter				
Detector:	Quasi Peak			
Resolution bandwidth:	200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz			
Video bandwidth:	≥ RBW			
Trace-Mode:	Max Hold			

Limits:

FCC		IC		
Fundamental Frequency (MHz)	Field strength o (µV/m / d		Measurement distance (m)	
	15848 μV/m (84 dBµV/m)	30	
13.553 to 13.567	158489 μV/m (104 dBμV/m)		10 (Recalculated acc. to FCC part15.31 (f2))	

Result:

TEST CONDITIONS		MAXIMUM POWER (dBμV/m)			
Frequency		13.56 MHz	13.56 MHz		
Mode		at 10 m distance	at 30 m distance		
T _{nom} V _{nom}		64.5 44.5*			
Measurement uncertainty		±30	iB		

^{*} Calculated value

Result: passed

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10.3 99 % emission bandwidth

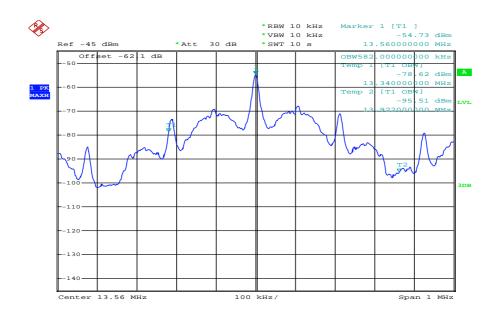
Measurement:

Measurement parameter				
Detector: Peak				
Resolution bandwidth:	> 1 % span			
Video bandwidth:	≥ RBW			
Trace-Mode:	Max Hold			

Results:

TEST CO	ONDITIONS	99 % emission bandwidth		
Frequency		13.56 MHz		
T _{nom}	V _{nom}	582 kHz		
Measurement uncertainty		± RBW		

Plot:



Date: 30.JAN.2013 09:40:31

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10.4 Field strength of the harmonics and spurious

Measurement:

Measurement parameter				
Detector: Quasi Peak / Average				
Sweep time:	Auto			
Resolution bandwidth:	120 kHz			
Video bandwidth:	300 kHz			
Span:	See plots!			
Trace-Mode:	Max hold			

Limits:

FCC		IC			
Fie	eld strength of the ha	irmonics and spu	ırious.		
Frequency (MHz)	Field streng	ngth (μV/m) Measurement distance (m)			
0.009 - 0.490	2400/F	(kHz)	300		
0.490 – 1.705	24000/F	(kHz)	30		
1.705 – 30	30 (29.5 c	lBμV/m)	30		
30 – 88	100 (40 d	BμV/m)	3		
88 – 216	150 (43.5	dBμV/m)	3		
216 – 960	200 (46 d	BμV/m)	3		

Result:

	EMISSION LIMITATIONS						
f [MHz]	Detector	Results					
	No emissions detected below 30 MHz.						
	For emissions above 30 MHz, please take a look at the table below the 1 GHz plot.						

Result: passed

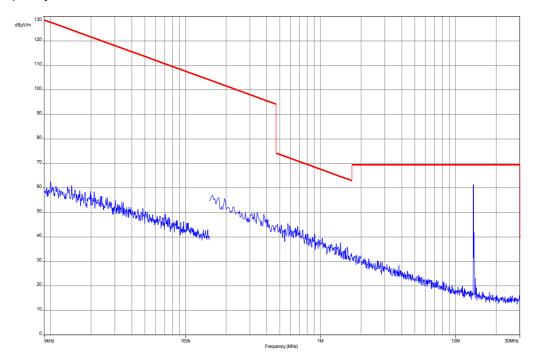
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Plots of the measurements

Plot 1: 9 kHz – 30 MHz; Part 15.209 Magnetics, Measurement distance 3 m

Transmit frequency 13.56 MHz



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Plot 2: 30 MHz - 1000 MHz

Transmit frequency 13.56 MHz

Common Information

EUT: Kärcher KCPU

Serial Number: -/-

Test Description: FCC part 15 class B @ 10m

Operating Conditions: RFID nonstop
Operator Name: Medrow
Comment: DC 14V

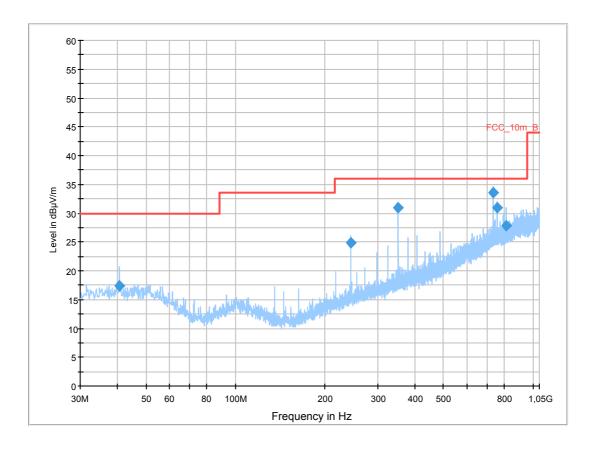
Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

Receiver: [ESCI 3] Level Unit: $dB\mu V/m$

Subrange Step Size Detectors IF BW Meas. Preamp Time

30 MHz - 2 GHz 60 kHz QPK 120 kHz 1 s 20 dB



Final Result

Frequency MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidt h (kHz)	Height (cm)	Polarizatio n	Azimut h (deg)	Corr. (dB)	Margi n (dB)	Limit (dBµV/m)	Comment
40.654950	17.5	1000.0	120.000	143.0	V	107.0	13.4	12.5	30.0	
244.069950	24.9	1000.0	120.000	100.0	V	192.0	13.1	11.1	36.0	
352.558050	30.9	1000.0	120.000	100.0	V	-39.0	16.1	5.1	36.0	
732.248850	33.7	1000.0	120.000	133.0	Н	22.0	23.3	2.3	36.0	
759.366750	31.0	1000.0	120.000	308.0	Н	183.0	23.7	5.0	36.0	
813.636600	27.9	1000.0	120.000	100.0	V	251.0	24.0	8.1	36.0	

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Plot 3: Spectrum mask part 15.225 (a, b, c, d)

Limits recalculated from 30 m to 10 m with 40 dB/decade according to FCC 15.31 (f2)



Date: 29.JAN.2013 14:58:44

The transmitter holds the requirements of FCC 15.225 (a, b, c and d)

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10.5 Frequency tolerance

Measurement:

Measurement parameter				
Detector:	Positive peak			
Sweep time:	Auto			
Resolution bandwidth:	10 Hz			
Video bandwidth:	1 MHz			
Span:	1 kHz			
Trace-Mode:	Clear – write			

Limits:

FCC	IC

The frequency tolerance of the carrier signal shall be maintained within +/- 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.

Result: passed

Frequency tolerance									
Over	temperature v	ariation	Over voltage variation						
Lir	mit is +/- 1.356	kHz	Lin	nit is +/- 1.356	kHz	-/-			
T (°C)]	Frequency	result	Power voltage	Frequency result		F [MHz]	Detector	Level [µV/m]	
-20	13.560 392	Pass	12.0 V	13.560 322	Pass				
-10	13.560 254	Pass	12.5 V	13.560 317	Pass				
0	13.560 275	Pass	13.0 V	13.560 294	Pass	-/-			
+10	13.560 287	Pass	13.5 V	13.560 287	Pass				
+20	13.560 283	Pass	14.0 V	13.560 283	Pass				
+30	13.560 279	Pass	14.5 V	13.560 283	Pass				
+40	13.560 271	Pass	15.0 V	13.560 282	Pass				
+50	13.560 267	Pass	15.5 V	13.560 294	Pass				
	-/-		16.0 V	13.560 284	Pass				
Mea	surement unce	ertainty	ty ±100 Hz						

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10.6 AC line conducted

Measurement:

Measurement parameter						
Detector:	Peak / Quasi peak / Average					
Sweep time:	Auto					
Resolution bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz					
Video bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz					
Span:	9 kHz to 30 MHz					
Trace-Mode:	Max hold					

Limits:

FCC	IC			
Frequency of Emission (MHz)	Conducted Limit (dBμV)			
	Quasi-peak	Average		
0.15 – 0.5	66 to 56 *	56 to 46 *		
0.5 – 5	56	46		
5 - 30	60	50		

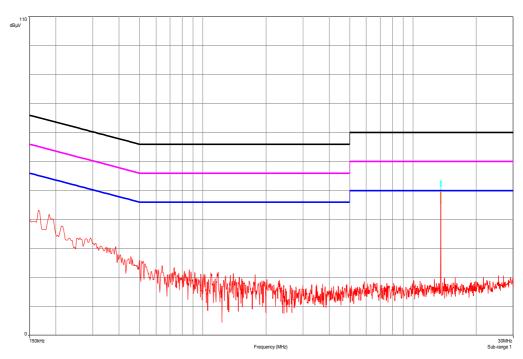
Result: passed

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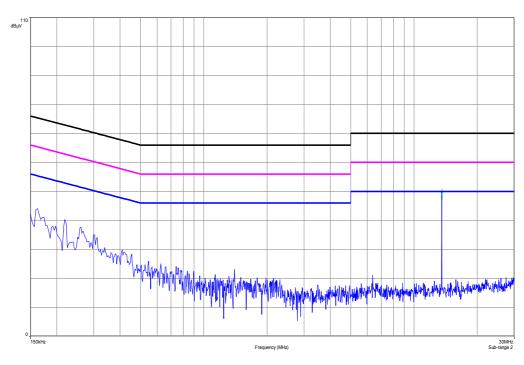


Plots:

Plot 1: phase line



Plot 2: neutral line



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11 Test equipment and ancillaries used for tests

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Labor/Item).

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g	12.01.2012	12.01.2015
2	50	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580	ne		
3	n. a.	EMI Test Receiver	ESCI 3	R&S	100083	300003312	k	09.01.2013	09.01.2014
4	n. a.	Amplifier	JS42- 00502650- 28-5A	MITEQ	1084532	300003379	ev	12.01.2012	12.01.2014
5	n. a.	Antenna Tower	Model 2175	ETS- LINDGREN	64762	300003745	izw	09.03.2012	09.03.2015
6	n. a.	Positioning Controller	Model 2090	ETS- LINDGREN	64672	300003746	izw	22.08.2012	22.08.2013
7	n. a.	Turntable Interface-Box	Model 105637	ETS- LINDGREN	44583	300003747	izw		
8	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbe ck	295	300003787	k	12.04.2012	12.04.2014
9	n. a.	Test Receiver	ESH2	R&S	871921/095	300002505	Ve	12.01.2012	12.01.2014
10	n. a.	Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824	vIKI!	09.03.2012	09.03.2015
11	n. a.	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	22.08.2012	22.08.2013
12	n. a.	DC Power Supply 0 – 32V	1108-32	Heiden	001802	300001383	Ve	23.06.2010	23.06.2013
13	n. a.	Temperature Test Chamber	T-40/50	CTS GmbH	064023	300003540	vIKI!	20.09.2011	20.09.2013
14	n. a.	Spectrum Analyzer 20 Hz - 50 GHz	FSU50	R&S	200012	300003443	Ve	09.10.2012	09.10.2014
15	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	*	300000199	ne		
16	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001168	ne	12.04.2012	12.04.2014
17	9	Isolating Transformer	MPL IEC625 Bus Regeltrennt ravo	Erfi	91350	300001155	ne	16.01.2013	16.01.2015
18	n. a.	MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologi es	MY51210197	300004405	k	21.02.2013	21.02.2014
19	9	Artificial Mains 9 kHz to 30 MHz	ESH3-Z5	R&S	828576/020	300001210	k	06.01.2012	06.01.2014

Agenda: Kind of Calibration

k calibration / calibrated

ne not required (k, ev, izw, zw not required)

ev periodic self verification Ve long-term stability recognized

vlkl! Attention: extended calibration interval

NK! Attention: not calibrated

EK limited calibration

zw cyclical maintenance (external cyclical maintenance)

izw internal cyclical maintenance g blocked for accredited testing

*) next calibration ordered / currently in progress

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12 Observations

No observations exceeding those reported with the single test cases have been made.

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Annex A **Document history**

Version	Applied changes	Date of release
1.0	Initial release	2013-02-01
Α	Editorial changes	2013-05-28

Further information Annex B

Glossary

AVG Average

DUT Device under test

EMC Electromagnetic Compatibility

European Standard ΕN Equipment under test EUT

European Telecommunications Standard Institute

Federal Communication Commission

ETSI -FCC -FCC ID -Company Identifier at FCC

HW Hardware IC **Industry Canada** Inventory number Inv. No. -N/A Not applicable PP Positive peak QΡ Quasi peak S/N Serial number

Software SW

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Annex C Accreditation Certificate



Note:

The current certificate including annex is published on our website (see link below) or may be received from CETECOM ICT Services on request.

http://www.cetecom.com/eu/de/cetecom-group/europa/deutschland-saarbruecken/akkreditierungen.html

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