



TEST REPORT

Test report no.: 1-5412/12-01-11-B



Testing laboratory

CETECOM ICT Services GmbH

Untertuerkheimer Strasse 6 – 10 66117 Saarbruecken / Germany Phone: + 49 681 5 98 - 0 Fax: + 49 681 5 98 - 9075 Internet: http://www.cetecom.com ict@cetecom.com

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

Mobotix AG

Kaiserstr.

67722 Winnweiler / GERMANY Phone: +49 6302 9816-0 Contact: Thomas Kern

e-mail: thomas.kern@mobotix.com

Phone: +49 6302-9816-0

Manufacturer

Mobotix AG

Kaiserstr.

67722 Winnweiler / 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:

Model name:

Keypad-B

YYRKPADB

IC:

9357A-KPADB

Frequency:

13.56 MHz

Technology tested:

RFID

Antenna: Integrated loop antenna

Power Supply: 48V DC by external power supply

Temperature Range: -20°C to +55°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:		
	p.o.		
Christoph Schneider Expert	Tobias Wittenmeier Expert		

2013-07-12 Page 1 of 24



Table of contents

1	Table of contents2				
2	Genera	l information	3		
	2.1 N	Notes and disclaimer			
		Application details			
3	Test sta	andard/s			
4		vironment			
5		m			
6		poratories sub-contracted			
7		nal information			
8		ary of measurement results			
9		asurements			
	9.1 9.2 A 9.3 C 9.4 A 9.5 F	AC conducted	6 		
10	Me	asurement results	11		
	10.1 10.2 10.3 10.4 10.5 10.6	Timing of the transmitter	12 13 14 19		
11	Tes	st equipment and ancillaries used for tests	22		
12	Ob	servations	22		
An	nex A	Document history	23		
An	nex B	Further information	23		
An	nex C	Accreditation Certificate	24		



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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In no case this test report can be considered as a Letter of Approval.

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: 2012-11-28
Date of receipt of test item: 2013-02-25
Start of test: 2013-02-25
End of test: 2013-03-01

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

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	2010-10	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

2013-07-12 Page 3 of 24



4 Test environment

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

Temperature: T_{max} +55 °C during high temperature tests

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

Relative humidity content: 55 %

Barometric pressure: not relevant for this kind of testing

V_{nom} 48 V DC by external power supply

Power supply: V_{max} 54 V

 V_{min} 20 V

5 Test item

Kind of test item	:	RFID Reader	
Type identification	:	Keypad-B	
S/N serial number	:	Unknown	
HW hardware status	:	Unknown	
SW software status	:	Unknown	
Frequency band [MHz]	:	13.56 MHz	
Type of radio transmission	:		
Use of frequency spectrum	:	single carrier	
Type of modulation	:	ASK	
Number of channels	:	1	
Antenna	:	Integrated loop antenna	
Power supply	:	48 V DC by external power supply	
Temperature range	:	-20°C to +55 °C	

6 Test laboratories sub-contracted

None

7 Additional information

Test setup - and EUT - photos are included in the following test reports:

External EUT photos: 1-5412/12-01-11-B_AnnexA Internal EUT photos: 1-5412/12-01-11-B_AnnexB Test setup: 1-5412/12-01-11-B_AnnexC

2013-07-12 Page 4 of 24



8	Summary of measurement results				
		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	2013-07-12	-/-

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	\boxtimes				complies
§ 15.209/ RSS-210 Issue 8 Annex 2.6	Fieldstrength of harmonics and spurious	Nominal	Nominal	\boxtimes				complies
§ 15.225 (e)/ RSS-210 Issue 8	Frague y and a talaman an	Nominal	Extreme	\boxtimes				oo manling
Annex 2.6	Frequency tolerance	Extreme	Nominal	\boxtimes				complies
§15.107	Conducted emissions < 30 MHz (AC-line conducted)	Nominal	Nominal	\boxtimes				complies

Note: NA = Not Applicable; NP = Not Performed

2013-07-12 Page 5 of 24

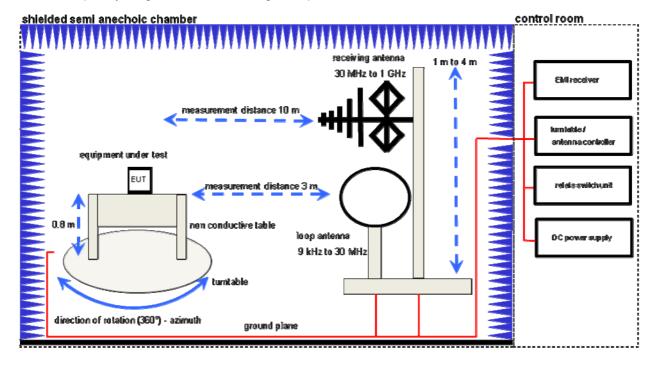


9 RF measurements

9.1 Description of test setup

9.1.1 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.



2013-07-12 Page 6 of 24



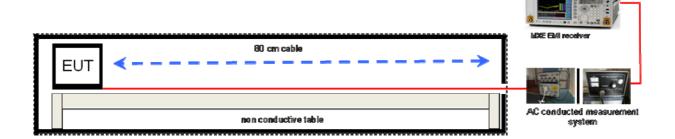
Equipment table:

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

2013-07-12 Page 7 of 24



9.2 AC conducted



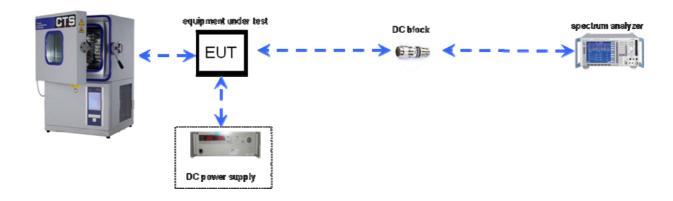
Equipment table:

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

2013-07-12 Page 8 of 24



9.3 Conducted measurements



Equipment table:

Equipment	Туре	Manufacturer	Serial No.	INV. No Cetecom
DC Power Supply 0 – 32V	1108-32	Heiden	001802	300001383
Temperature Test Chamber	T-40/50	CTS GmbH	064023	300003540
Spectrum Analyzer 20 Hz - 50 GHz	FSU50	R&S	200012	300003443

9.4 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: None

2013-07-12 Page 9 of 24



9.5 RSP100 test report cover sheet / performance test data

Test Report Number	:	1-5412/12-01-11-B
Equipment Model Number	:	Keypad-B
Certification Number	:	9357A-KPADB
Manufacturer (complete Address)	:	Mobotix AG Kaiserstr. 67722 Winnweiler / 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)	:	57.0 @ 10m
Occupied bandwidth (99%-BW) [MHz]	:	436 kHz
Type of modulation	:	ASK
Emission Designator (TRC-43)	:	436KA1D
Antenna Information	:	Integrated loop antenna
Transmitter Spurious (worst case) [dBμV/m @ 10m]	:	19.1 dBμV/m @ 40.63 MHz Quasi-Peak

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:

2013-07-12	Tobias Wittenmeier	p.o.
Date	Name	Signature

2013-07-12 Page 10 of 24



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.

EUT is transmitting continuously (100% duty cycle).

Result: Passed

2013-07-12 Page 11 of 24



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			

<u>Limits:</u>

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 (104 dB		10 (Recalculated acc. to FCC part15.31 (f2)	

Result:

TEST CO	NDITIONS	MAXIMUM POWER (dBμV/m)			
Freq	uency	13.56 MHz 13.56 MHz			
Me	ode	at 10 m distance at 30 m distance			
T _{nom}	V _{nom}	57.0 37.0*			
Measureme	nt uncertainty	±30	dB		

^{*} Limits recalculated from 10m to 30m with 40 dB/decade according to FCC 15.31 (f2).

Result: passed

2013-07-12 Page 12 of 24



10.3 99 % emission bandwidth

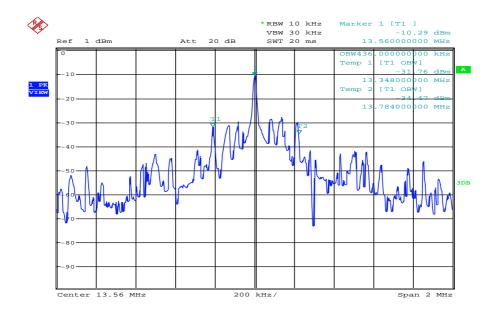
Measurement:

Measurement parameter				
Detector:	Peak			
Resolution bandwidth:	10 kHz			
Video bandwidth:	≥ RBW			
Trace-Mode:	Max Hold			

Results:

TEST CO	ONDITIONS	99 % emission bandwidth			
Fred	luency	13.56 MHz			
T _{nom}	V _{nom}	436			
Measureme	nt uncertainty	± RBW			

Plot:



Date: 1.MAR.2013 11:37:09

2013-07-12 Page 13 of 24



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	rmonics and sp	urious.		
Frequency (MHz)	Frequency (MHz) Field streng		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 dBµV/m)		.705 – 30 30 (29.5 dE		30
30 – 88	100 (40 dBμV/m)		3		
88 – 216	150 (43.5	dBµV/m)	3		
216 – 960	200 (46 d	BµV/m)	3		

Result:

	EMISSION LIMITATIONS						
f [MHz]	Detector	Limit max. allowed [dBµV/m]	Amplitude of emission [dBμV/m]	Results			
	No peaks found higher than 10 dB below the limit						

Result: passed

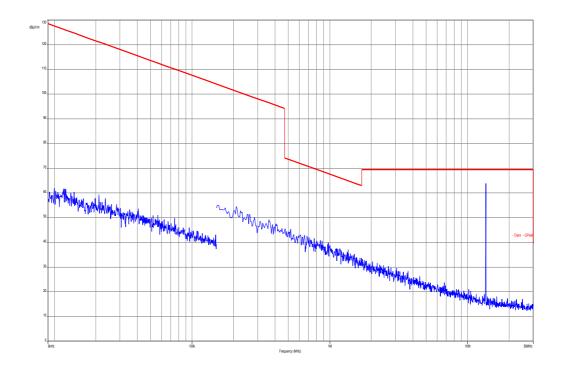
2013-07-12 Page 14 of 24



Plots of the measurements

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

Transmit frequency 13.56 MHz



2013-07-12 Page 15 of 24



Plot 2: 30 MHz - 1000 MHz

Transmit frequency 13.56 MHz

CETECOM ICT Services GmbH

Common Information

EUT: Keypad1-EXT Serial Number: unknown

Test Description: FCC part 15 class B @ 10 m

Operating Conditions: cond. TX
Operator Name: Hennemann
Comment: DC: 24 V

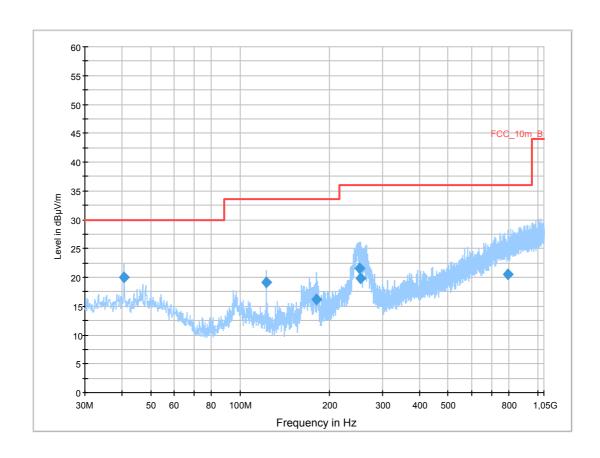
Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)

Receiver: [ESCI 3] Level Unit: dBµV/m

Subrange Step Size Detectors IF BW Meas. Time

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



2013-07-12 Page 16 of 24



Final Result 1

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
40.683600	19.9	1000.0	120.000	105.0	V	270.0	13.4	10.1	30.0	
122.031300	19.2	1000.0	120.000	162.0	V	100.0	10.1	14.3	33.5	
179.959500	16.2	1000.0	120.000	98.0	V	175.0	10.4	17.3	33.5	
251.935350	21.6	1000.0	120.000	157.0	V	10.0	13.4	14.4	36.0	
254.392350	19.8	1000.0	120.000	111.0	V	10.0	13.4	16.2	36.0	
795 503550	20.5	1000.0	120 000	153.0	Н	90 N	23.8	15.5	36.0	

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

Subrange 1

Frequency Range: 30 MHz - 2 GHz

Receiver: Receiver [ESCI 3]

@ GPIB0 (ADR 20), SN 100083/003, FW 4.42

Signal Path: without Notch

FW 1.0

Antenna: VULB 9163

SN 9163-295, FW ---

Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113

Correction Table (vertical): Cable_EN_1GHz (1005) Correction Table (horizontal): Cable_EN_1GHz (1005)

Antenna Tower: Tower [EMCO 2090 Antenna Tower]

@ GPIB0 (ADR 8), FW REV 3.12

Turntable: Turntable [EMCO Turntable]

@ GPIB0 (ADR 9), FW REV 3.12

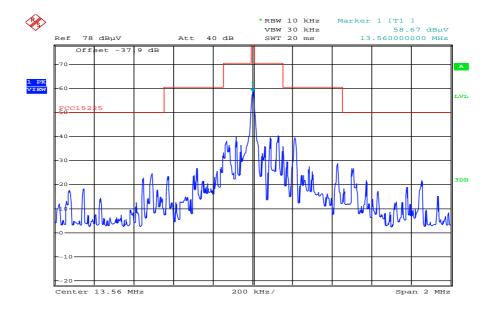
EMC 32 Version 8.52

2013-07-12 Page 17 of 24



Plot 3: Spectrum mask part15.225 (a, b, c, d)

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



Date: 1.MAR.2013 11:42:34

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

2013-07-12 Page 18 of 24



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	Ove	er voltage varia	ation					
Lir	mit is +/- 1.356	kHz	Lin	Limit is +/- 1.356 kHz -/-			Limit is +/- 1.356 kHz -/-			
T (°C)]	Frequency	result	Power voltage	Frequency	result	F [MHz]	Detector	Level [µV/m]		
-20°	13.56051	Pass	20 V	13.56047	Pass					
-10°	13.56049	Pass	24 V	13.56046	Pass					
0°	13.56049	Pass	28 V	13.56046	Pass	-/-				
10°	13.56049	Pass	32 V	13.56046	Pass					
20°	13.56045	Pass	36 V	13.56046	Pass					
30°	13.56043	Pass	40 V	13.56046	Pass					
40°	13.56041	Pass	44 V	13.56046	Pass					
50°	13.56040	Pass	48 V	13.56046	Pass					
55°	13.56040	Pass	50 V	13.56046	Pass					
			54 V	13.56045	Pass					
Mea	surement unce	ertainty			±100	Hz				

2013-07-12 Page 19 of 24



10.6 Conducted emissions < 30 MHz (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			

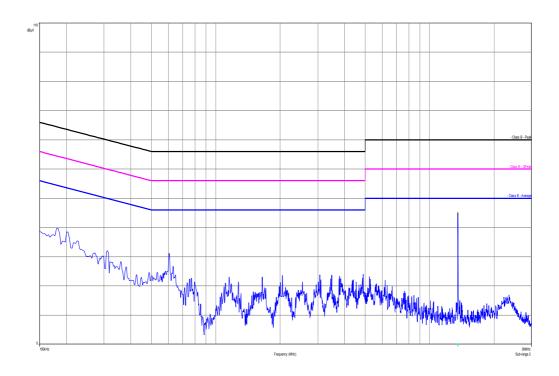
Result: passed

2013-07-12 Page 20 of 24

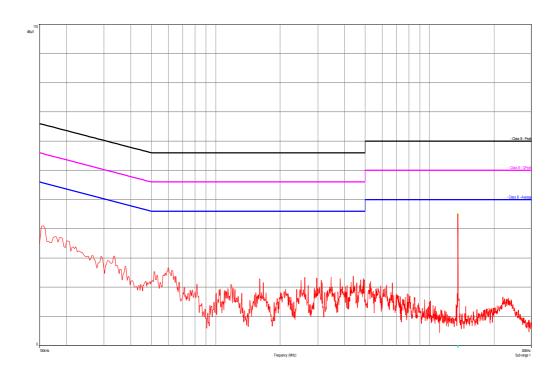


Plots:

Plot 1: phase line



Plot 2: neutral line



2013-07-12 Page 21 of 24



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	ECT-0002	Temperature and Climatic Test Chamber	VUK04/150 0	Heraeus Voetsch	31098	300001507	ev	20.09.2011	20.09.2013
2	n. a.	Power Supply	LA30/5GA	Zentro Elektronik	2046	300000711	NK!		
3	n. a.	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	22.08.2012	22.08.2013
4	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	k	05.06.2013	05.06.2015
5	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
6	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	*	300000199	ne		
7	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001156	ne		
8	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
9	n. a.	Amplifier	js42- 00502650- 28-5a	Parzich GMBH	928979	300003143	ne		
10	n. a.	Band Reject filter	WRCG185 5/1910- 1835/1925- 40/8SS	Wainwright	7	300003350	ev		
11	n. a.	Band Reject filter	WRCG240 0/2483- 2375/2505- 50/10SS	Wainwright	11	300003351	ev		
12	n. a.	Highpass Filter	WHKX7.0/1 8G-8SS	Wainwright	18	300003789	ne		
13	n. a.	MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologi es	MY51210197	300004405	k	19.12.2011	25.02.2014

Agenda: Kind of Calibration

k calibration / calibrated EK limited calibration

ne not required (k, ev, izw, zw not required) zw cyclical maintenance (external cyclical maintenance)
ev periodic self verification izw internal cyclical maintenance
Ve long-term stability recognized g blocked for accredited testing

Ve long-term stability recognized g blocked for accredited testing vlkl! Attention: extended calibration interval

NK! Attention: not calibrated *) next calibration ordered / currently in progress

12 Observations

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

2013-07-12 Page 22 of 24



Annex A Document history

Version	Applied changes	Date of release
1.0	Initial release	2013-05-06
-A	Editorial changings	2013-06-28
-B	Photos extracted in separate Annex files	2013-07-10

Annex B Further information

Glossary

AVG - Average

DUT - Device under test

EMC - Electromagnetic Compatibility

EN - European Standard EUT - Equipment under test

ETSI - European Telecommunications Standard Institute

FCC - Federal Communication Commission

FCC ID - Company Identifier at FCC

HW - Hardware

IC - Industry Canada
Inv. No. - Inventory number
N/A - Not applicable
PP - Positive peak
QP - Quasi peak
S/N - Serial number
SW - Software

2013-07-12 Page 23 of 24



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

2013-07-12 Page 24 of 24