

Untertürkheimer Str. 6-10, 66117 Saarbruecken Phone: +49 (0) 681 598-0 Fax: -9075 RSC-Laboratory Phone: +49 (0) 681 598-8412 Fax: -8484

Test report no.: 2-4600-01-03/07 Date: 2007-11-21 Page 1 of 24

Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC) Anechoic chamber registration no.: IC 3463A-1 TCB ID: DE 0001



Accredited by the German Accreditation Council DAR–Registration Number DAT-P-176/94-D1



Accredited Bluetooth® Test Facility (BQTF)

Test report no. : 2-4600-01-03/07 Applicant : Bernafon AG

Type : RC-P

Test Standard : FCC Part 15.223

RSS210 Issue 7

FCC ID : U6XRCP Certification No. IC : 7031A-RCP

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1 General information

1.1. Administrative data of the test facility

1.1.1 Identification of the testing laboratory

Company name: Cetecom ICT Services GmbH
Address: Untertürkheimerstr. 6-10

Untertürkheimerstr. 6-10 D-66117 Saarbruecken

Germany

Laboratory accreditation: DAR-Registration No. DAT-P-176/94-D1

Bluetooth Qualification Test Facility (BQTF)

Federal Communications Commission (FCC)

Identification/Registration No: 90462

Responsible for testing laboratory: Harro Ames

Phone: +49 681 598 0 Fax: +49 681 598 9075 email: info@ict.cetecom.de

1.2. Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The 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. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

Responsible for testing laboratory (Harro Ames)

Responsible for test report (Michael Berg)



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1.3 Details of Applicant

Name : Bernafon AG Address : Morgenstraße 131

City : 3018 Bern : Switzerland Country : +41 31 998 15 15 Phone : +41 31 998 15 90 Fax Contact : Dr. Matthias Schefer : +41 31 998 15 75 Phone Fax : +41 31 998 15 90 : msc@bernafon.ch e-mail

1.4 Application Details

Date of receipt of application : 2007-11-19
Date of receipt of test item : 2007-11-19
Date(s) of test : 2007-11-21
Date of report : 2007-11-21



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1.5 Test Item

Type of equipment : Remote control for hearing aid

Model name : RC-P

Details of Manufacturer

Company : Bernafon AG
Address : Morgenstraße 131
City : 3018 Bern

City : 3018 Bern
Country : Switzerland

Tested to Radio Standards Specification(RSS) No. : 210 Issue 7

Open Area Test Site Industry Canada Number : IC 3463A-1

Temperature Range : -20 °C to +55 °C

Frequency Range (or fixed frequency) : 3.84 MHz

Field Strength (at what distance) : $18.2 \text{ dB}\mu\text{V/m}$ in 30m

Occupied Bandwidth (99% BW) : 425 kHzType of Modulation : A1D

Antenna Information : internal ferrite antenna

Emission Designator : 425kA1D

Transmitter Spurious (worst case) : no peaks found above noise level

IC Reg. no. : 7031A-RCP FCC ID : U6XRCP

ATTESTATION:

DECLARATION OF COMPLIANCE: I declare 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.

· drus

Laboratory Manager:

2007-11-21 Harro Ames

Date Name Signature



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1.5.1 Test conditions testing

| Description | Shortcut | Unit | Value |
|--------------------------------|-------------------|--------|----------|
| | | | |
| Nominal Temperature / humidity | T _{nom} | °C / % | +23 / 48 |
| Low Temperature | T_{low} | °C | -20 |
| High Temperature | T _{high} | °C | +55 |
| | | | |
| Nominal Power Source | V _{nom} | V | 3.0 |

Type of powersource: V DC

1.6 Test Setup

| Hardware : | |
|-----------------|--|
| Software : | |
| Serial number : | |

1.7 Test Specifications

| FCC: | CFR Part 15 – Radio Frequency Devices CFR Part 15.209 – Radiated emission limits. |
|------|--|
| IC: | RSS 210, Issue 7 Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment |





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2 Statement of Compliance

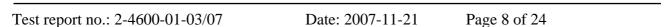
No deviations from the technical specification(s) were ascertained in the course of the tests performed.

2.1 Summary of Measurement Results

2.1.1 CFR 47 Part 15 Radio frequency devices

| Section in this Report | Test Name / Section FCC Part 15 | Test Name / Section RSS 210 | applicable | Verdict |
|------------------------|---|-----------------------------|------------|---------|
| 4.1 | § 15.35 (c) Timing of the transmitter (Duty cycle correction factor) | 6.5 Pulsed Operation | NO | |
| 4.2 | § 15.209 FIELDSTRENGTH OF EMISSIONS | Annex 2.6 | YES | pass |
| | | | | |
| | | | | |
| | | | | |

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3 Measurements and results

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 GHz in semi-anechoic chambers or free field. 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 conform with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2003 clause 4.1.5. 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 set-ups 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 C63.4-2003 clause 4.2. Antennas are conform with ANSI C63.2-1996 item 15.

150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth, passive loop antenna.

30 MHz - 200 MHz: Quasi Peak measurement, 120KHz Bandwidth, biconical antenna 200MHz - 1GHz: Quasi Peak measurement, 120KHz Bandwidth, log periodic antenna

>1GHz: Average, RBW 1MHz, VBW 10 Hz, wave guide horn

All measurement settings are according to FCC 15.209 and 15.207





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4 FCC Part 15 Subpart C

4.1 Timing of the transmitter

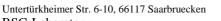
Not applicable

Reference

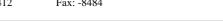
FCC: CFR Part SUBCLAUSE § 15.35 (c)
IC: RSS 210, ISSUE 7 6.5 Pulsed operation

Limits: § 15.35 (c)

(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.



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4.2 Field strength of emissions

Reference

CFR Part SUBCLAUSE § 15.223 FCC: IC: RSS 210, Annex 2.6

Maximum output power (quasi peak) - (radiated)

Measured at 3m distance, recalculated to 30m according to FCC part15.31 (f2) (here 40 dB)

| TEST CONDITIONS | | MAXIMUM POWER (dBμV/m) | | |
|------------------------------|--|------------------------|------------------|--|
| Frequency | | 3.84 MHz | 3.84 MHz | |
| | | @ 3 m | Calculated @ 30m | |
| T _{nom} +23 °C | | 58.2 | 18.2 | |
| Measurement uncertainty ±3dB | | | В | |

 $RBW/VBW:200\ Hz$ up to $150\ kHz,\,9\ kHz$ up to $30\ MHz,\,120\ kHz$ up to $1\ GHz$

Limits **SUBCLAUSE § 15.209(a)/223**

| Fundamental Frequency | Field strength of | Measurement Distance |
|-------------------------|------------------------------------|----------------------|
| (MHz) | Fundamental ($\mu V/m$) | (meters) |
| 0.009 - 0.490 | 2400 / F (kHz) | 300 |
| 0.490 - 1.705 | 24000 / F (kHz) | 30 |
| 1.705 - 30.0 | 30 (29.5 dBμV/m) | 30 |
| 30.0 - 88.0 | $100 (40 \text{ dB}\mu\text{v/m})$ | 3 |
| 88 – 216 | 150 (43.5 dBμV/m) | 3 |
| 216 – 960 | $200 (46 \text{ dB}\mu\text{V/m})$ | 3 |
| 15.223: 1.075 to 10 MHz | 15 (23.5 dBμV/m) | 30 |

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4.3 Field strength of the harmonics and the spurious

Reference

FCC: CFR Part SUBCLAUSE § 15.209 (a)

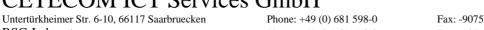
IC: RSS 210, Annex 2.6

| EMISSION LIMITATIONS | | | | | | | | | |
|----------------------|---|---|---------------------|---------|--|--|--|--|--|
| f (MHz) | amplitude of emission (dBµV/m) Average/QP | limit max. allowed field strength | | results | | | | | |
| 3.84 | 18.2 dBµV/m@30m | $23.5 \\ dB\mu V/m@30m$ | Operating frequency | Pass | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Measur | ement uncertainty | | ± 3dB | | | | | | |

RBW/VBW: 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

Limits SUBCLAUSE § 15.209 (a)

| Fundamental Frequency | Field strength of | Measurement Distance |
|-----------------------|--------------------------------------|----------------------|
| (MHz) | Fundamental (μV/m) | (meters) |
| 0.009 - 0.490 | 2400 / F (kHz) | 300 |
| 0.490 - 1.705 | 24000 / F (kHz) | 30 |
| 1.705 - 30.0 | 30 (29.5 dBμV/m) | 30 |
| 30.0 - 88.0 | $100 (40 \text{ dB}\mu\text{v/m})$ | 3 |
| 88 - 216 | $150 (43.5 \text{ dB}\mu\text{V/m})$ | 3 |
| 216 – 960 | 200 (46 dBμV/m) | 3 |
| | | |





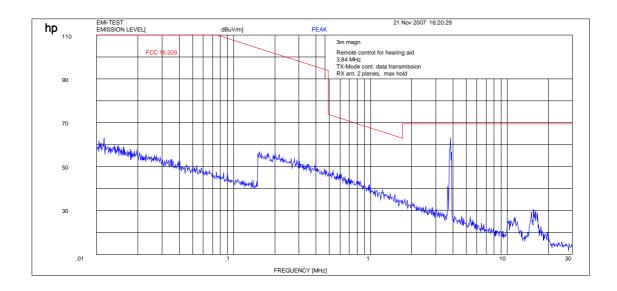


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Plots of measurements

Plot 1:

Part 15.209 Magnetics



RBW/VBW: 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

(to convert the measuring distance from 3m to 30m and 30 to 300m a correction factor from 40 dB/decade was used. Here we use 40 dB to recalculate from 3m to 30m)

Measurement distance 3 m

This measurement was done in 3 planes, the plot shows the worst case

Limits

SUBCLAUSE § 15.209

| Frequency (MHz) | Field strength (μV/m) | Measurement distance (m) |
|-----------------|------------------------------------|--------------------------|
| 0.0009 - 0.490 | 2400 / F (kHz) | 300 |
| 0.490 - 1.705 | 24000 / F (kHz) | 30 |
| 1.705 - 30 | 30 (29.5 dBμV/m) | 30 |
| 30 - 88 | $100 (40 \text{ dB}\mu\text{v/m})$ | 3 |
| 88 - 216 | 150 (43.5 dBμV/m) | 3 |
| 216 - 960 | 200 (46 dBµV/m) | 3 |
| | | |



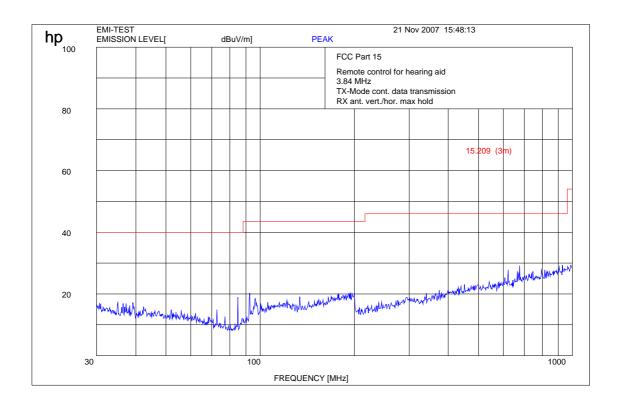
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Plot 2:

TX (30 MHz to 1 GHz)





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Test equipment and ancillaries used for tests

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

Anechoic chamber C:

| No | Equipment/Type | Manuf. | Serial Nr. | Inv. No. Cetecom | Last Calibration | Frequency (months) | Next Calibration |
|----|-------------------------------------|----------------|------------------|------------------|------------------------------------|--------------------|---------------------|
| 1 | Anechoic chamber | MWB | 87400/02 | 300000996 | Monthly verifi | cation | |
| 2 | System-Rack 85900 | HP I.V. | * | 300000222 | n.a. | | |
| 3 | Measurement System 1 | | | | | | |
| 4 | Spektrum Analyzer 8566B | HP | 2747A05306 | 300001000 | 05.10.2006 | 24 | 05.10.2008 |
| 5 | Spektrum Analyzer Display 85662A | HP | 2816A16541 | 300002297 | 05.10.2006 | 24 | 05.10.2008 |
| 6 | Quasi-Peak-Adapter 85650A | HP | 2811A01131 | 300000999 | 05.10.2006 | 24 | 05.10.2008 |
| 7 | RF-Preselector 85685A | HP | 2837A00779 | 300000218 | 08.11.2006 | 24 | 08.11.2008 |
| 8 | PC Vectra VL | HP | | 300001688 | n.a. | | |
| 9 | Software EMI | HP | | 300000983 | n.a. | | |
| 10 | Measurement System 2 | | | | | | |
| 11 | FSP 30 | R&S | 100623 | ICT 300003464 | 05.10.2007 | 24 | 15.10.2009 |
| 12 | PC | F+W | | | n.a. | | |
| 13 | TILE | TILE | | | n.a. | | |
| 14 | Biconical antenna | EMCO | S/N: 860 942/003 | | | cation (System | |
| 15 | Log. Period. Antenna 3146 | EMCO | 2130 | 300001603 | Monthly verifi | cation (System | cal.) |
| 16 | Double Ridged Antenna HP 3115P | EMCO | 3088 | 300001032 | Monthly verifi | cation (System | cal.) |
| 17 | Active Loop Antenna 6502 | EMCO | 2210 | 300001015 | Monthly verifi | cation (System | cal.) |
| 18 | Power Supply 6032A | HP | 2818A03450 | 300001040 | 12.05.2007 | 36 | 12.05.2010 |
| 19 | Busisolator | Kontron | | 300001056 | n.a. | | |
| 20 | Leitungsteiler 11850C | HP | | 300000997 | Monthly verifi | cation (System | cal.) |
| 21 | Power attenuator 8325 | Byrd | 1530 | 300001595 | Monthly verification (System cal.) | | cal.) |
| 22 | Band reject filter WRCG1855/1910 | Wainwrig ht | 7 | 300003350 | Monthly verification (System cal.) | | |
| 23 | Band reject filter WRCG2400/2483 | Wainwrig ht | 11 | 300003351 | Monthly verification (System cal.) | | |
| | | | | | | | |





Bluetooth Rack:

| No | Equipment/Type | Manuf. | Serial Nr. | Inv. No. Cetecom | Last | Frequency | Next |
|----|------------------|--------|-------------|------------------|-------------|-----------|-------------|
| | | | | | Calibration | (months) | Calibration |
| 1 | FSP 30 | R&S | | 300003575 | 02.04.2007 | 24 | 02.04.2009 |
| 2 | CBT | R&S | 100313 | 300003516 | 24.10.2006 | 24 | 24.10.2008 |
| 3 | Switch Matrix | HP | | 300000929 | n.a. | | |
| 4 | Power Supply | HP | 3041A00544 | 300002270 | 13.05.2007 | 36 | 13.05.2010 |
| 5 | Signal Generator | R&S | 836206/0092 | 300002680 | 30.05.2007 | 36 | 30.05.2010 |
| | | | | | | | |
| | | | | | | | |

CETECOM

Signaling Units:

| No | Equipment/Type | Manuf. | Serial Nr. | Inv. No. Cetecom | Last Calibration | | Next |
|----|----------------|--------|------------|------------------|-------------------------|----------|-------------|
| ' | | | | | | (months) | Calibration |
| 1 | CBT | R&S | 100313 | 300003516 | 24.10.2006 | 24 | 24.10.2008 |
| 2 | CBT | R&S | 100185 | 300003416 | 21.02.2006 | 24 | 21.02.2008 |
| 3 | CMU-200 | R&S | 103992 | 300003231 | 27.04.2007 | 12 | 27.04.2008 |
| 4 | CMU-200 | R&S | 106240 | 300003321 | 02.05.2006 | 24 | 02.05.2008 |
| | | | | | | | |

SRD Laboratory Room 002:

| No | Equipment/Type | Manuf. | Serial Nr. | Inv. No. Cetecom | Last Calibration | Frequency (months) | Next Calibration |
|----|------------------------------------|--------|-------------------|---------------------|------------------|--------------------|---------------------|
| 1 | System Controller PSM 12 | R&S | 835259/007 | 3000002681-00xx | n.a. | | |
| 2 | Memory Extension PSM-K10 | R&S | To 1 | 3000002681 | n.a. | | |
| 3 | Operating Software PSM-B2 | R&S | To 1 | 3000002681 | n.a. | | |
| 4 | 19" Monitor | | 22759020- ED | 3000002681 | n.a. | | |
| 5 | Mouse | | LZE 0095/6639 | 3000002681 | n.a. | | |
| 6 | Keyboard | | G00013834L 461 | 3000002681 | n.a. | | |
| 7 | Spectrum Analyser FSIQ 26 | R&S | 835540/018 | 3000002681-0005 | 01.08.2006 | 24 | 01.08.2008 |
| 8 | Tracking Generator FSIQ-B10 | R&S | 835107/015 | 3000002681 | s.No.7 | | |
| 10 | RF-Generator SMIQ03 (B1 Signal) | R&S | 835541/056 | 3000002681-0002 | 01.08.2006 | 36 | 01.08.2009 |
| 11 | Modulation Coder SMIQ-B20 | R&S | To 10 | 3000002681 | s.No.10 | | |
| 12 | Data Generator SMIQ- B11 | R&S | To 10 | 3000002681 | s.No.10 | | |
| 13 | RF Rear Connection SMIQ-B19 | R&S | To 10 | 3000002681 | s.No.10 | | |
| 14 | Fast CPU SM-B50 | R&S | To 10 | 3000002681 | s.No.10 | | |
| 15 | FM Modulator SM-B5 | R&S | 835676/033 | 3000002681 | s.No.10 | | |
| 16 | RF-Generator SMIQ03 (B2 Signal) | R&S | 835541/055 | 3000002681-0001 | 01.08.2006 | 36 | 01.08.2009 |

REFERENCE NUMBER(S) OF TEST EQUIPMENT USED:

(see test equipment listing)



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| 17 | Modulation Coder SMIQ-B20 | R&S | To 16 | 3000002681 | s.No.16 | | |
|----|--|-------------------|--------------------|-----------------|------------|----|------------|
| 18 | Data Generator SMIQ- B11 | R&S | To 16 | 3000002681 | s.No.16 | | |
| 19 | RF Rear Connection SMIQ-B19 | R&S | To 16 | 3000002681 | s.No.16 | | |
| 20 | Fast CPU SM-B50 | R&S | To 16 | 3000002681 | s.No.16 | | |
| 21 | FM Modulator SM-B5 | R&S | 836061/022 | 3000002681 | s.No.16 | | |
| 22 | RF-Generator SMP03 (B3 Signal) | R&S | 835133/011 | 3000002681-0003 | 01.08.2006 | 36 | 01.08.2009 |
| 23 | Attenuator SMP-B15 | R&S | 835136/014 | 3000002681 | S.No.22 | | |
| 24 | RF Rear Connection SMP-B19 | R&S | 834745/007 | 3000002681 | S.No.22 | | |
| 25 | Power Meter NRVD | R&S | 835430/044 | 3000002681-0004 | 01.08.2006 | 24 | 01.08.2008 |
| 26 | Power Sensor NRVD-Z1 | R&S | 833894/012 | 3000002681-0013 | 01.08.2006 | 24 | 01.08.2008 |
| 27 | Power Sensor NRVD-Z1 | R&S | 833894/011 | 3000002681-0010 | 01.08.2006 | 24 | 01.08.2008 |
| 28 | Rubidium Standard RUB | R&S | | 3000002681-0009 | 01.08.2006 | 24 | 01.08.2008 |
| 29 | Switching and Signal Conditioning Unit SSCU | R&S | 338864/003 | 3000002681-0006 | 01.08.2006 | 24 | 01.08.2008 |
| 30 | Laser Printer HP Deskjet 2100 | HP | N/A | 3000002681-0011 | n.a. | | |
| 31 | 19'' Rack | R&S | 11138363000 004 | 3000002681 | n.a. | | |
| 32 | RF-cable set | R&S | N/A | 3000002681 | n.a. | | |
| 33 | IEEE-cables | R&S | N/A | 3000002681 | n.a. | | |
| 34 | Sampling System FSIQ- B70 | R&S | 835355/009 | 3000002681 | s.No.7 | | |
| 35 | RSP programmable attenuator | R&S | 834500/010 | 3000002681-0007 | 01.08.2006 | 24 | 01.08.2008 |
| 36 | Signalling Unit | R&S | 838312/011 | 3000002681 | n.a. | | |
| 37 | NGPE programmable Power Supply for EUT | R&S | 192.033.41 | 3000002681 | | | |
| 38 | Climatic box VT 4002 | Heraeus Vötsch | 58566046820 010 | 300003019 | 11.05.2007 | 24 | 11.05.2009 |
| 39 | Signaling Unit CMU200 | R&S | 832221/0055 | 300002862 | 12.01.2006 | 24 | 12.01.2008 |
| 40 | Power Splitter 6005-3 | Inmet Corp. | none | 300002841 | 23.12.2006 | 24 | 23.12.2008 |
| 41 | SMA Cables SPS-1151- 985-SPS | Insulated Wire | different | different | n.a. | | |
| 42 | CBT32 with EDR Signaling Unit | R&S | | | | | |
| 43 | Coupling unit | Narda | N/A | | n.a. | | |
| 44 | 2xSwitch Matrix PSU | R&S | 872584/021 | 300001329 | n.a. | | |
| 45 | RF-cable set | R&S | N/A | different | n.a. | | |
| 46 | IEEE-cables | R&S | N/A | | n.a. | | |
| | | | | | | | |

Anmerkung: 3000002681-00xx als Systeme inventarisiert



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SRD Laboratory Room 005:

| No | Equipment/Type | Manuf. | Serial Nr. | Inv. No. | Last Calibration | Frequency | Next |
|----|-------------------------------------|--------|------------|-----------|-------------------------|-----------|-------------|
| | | | | Cetecom | | (months) | Calibration |
| 1 | Spektrum Analyzer 8566B | HP | 2747A05275 | 300000219 | 08.11.2006 | 24 | 08.11.2008 |
| 2 | Spektrum Analyzer Display 85662A | HP | 2816A16497 | 300001690 | 08.11.2006 | 24 | 08.11.2008 |
| 3 | Quasi-Peak-Adapter 85650A | HP | 2811A01135 | 300000216 | 08.11.2006 | 24 | 08.11.2008 |
| 4 | Power Supply | Heiden | 003202 | 300001187 | 12.05.2007 | 36 | 12.05.2010 |
| 5 | Power Supply | Heiden | 1701 | 300001392 | 12.05.2007 | 36 | 12.05.2010 |
| | | | | | | | |

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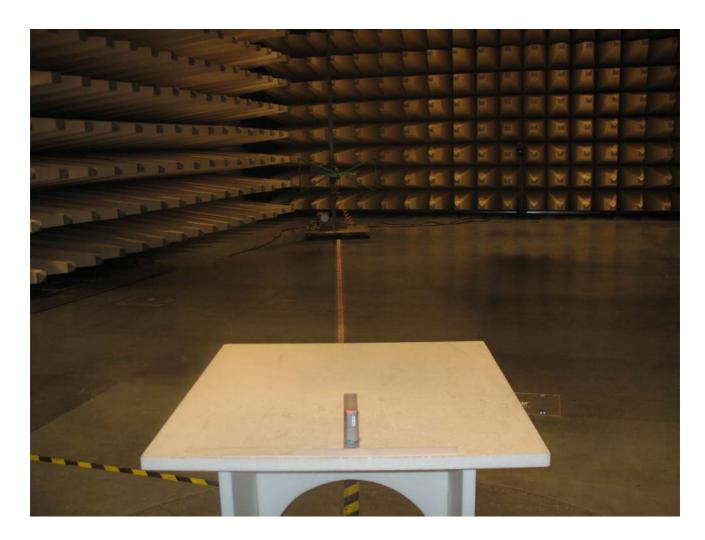


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5 **Annex B: Photographs of Test site**

Photo 1 (Radiated Emissions):



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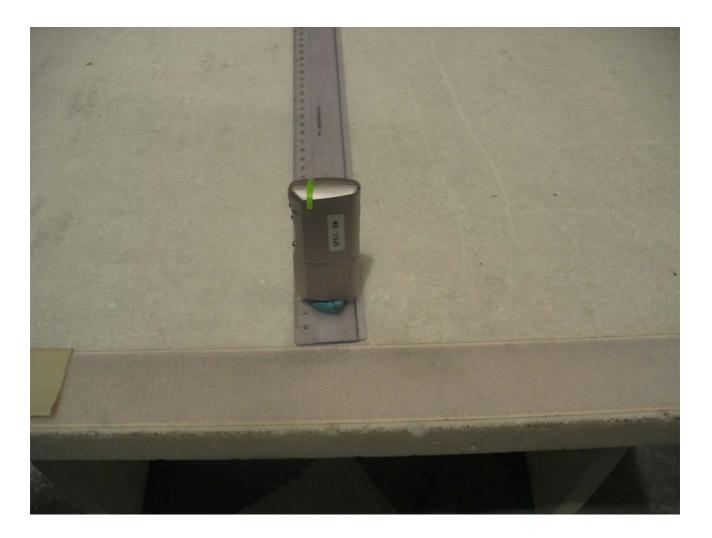
Phone: +49 (0) 681 598-0

Fax: -9075 Fax: -9075

CETECOM

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Photo 2 (Radiated Emissions):



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6 Annex C: External Photographs of the Equipment

Photo 1:



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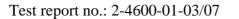
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Photo 2:



Untertürkheimer Str. 6-10, 66117 Saarbruecken RSC-Laboratory

Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075 **CETECOM**



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7 Annex D: INTERNAL PHOTOGRAPHS OF THE EQUIPMENT

Photo 3:



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Photo 4:



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Fax: -9075

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Photo 5:

