

**Annex A: Photographs of the Test Set-up**

**Photo 1: Power Line Conducted Emission Test**



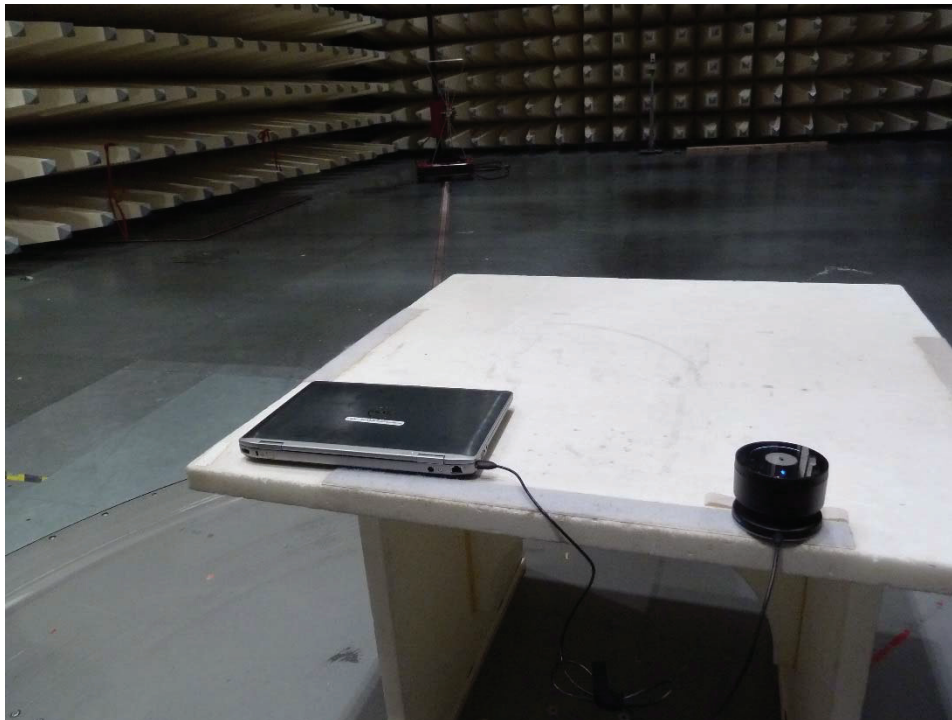
**Photo 1: Power Line Conducted Emission Test**



Photo 3: Radiated Emission



Photo 4: Radiated Emission





**Annex B: External Photographs of the EUT**

Photo 1:

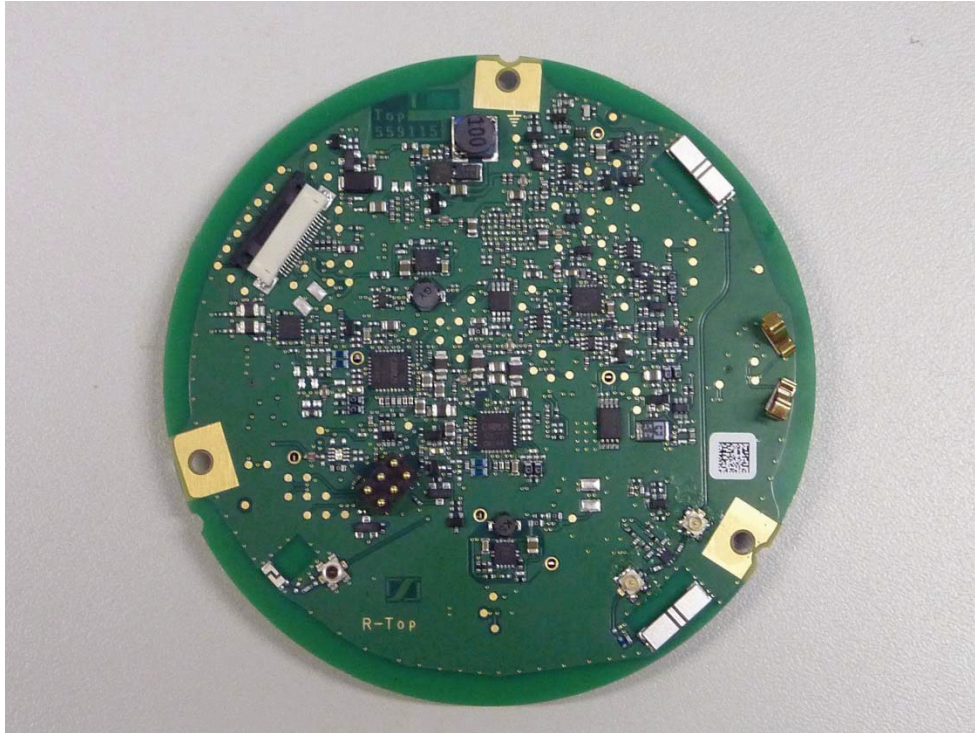


Photo 2:



**Annex C: Internal Photographs of the EUT**

**Photo 1:**



**Photo 2:**

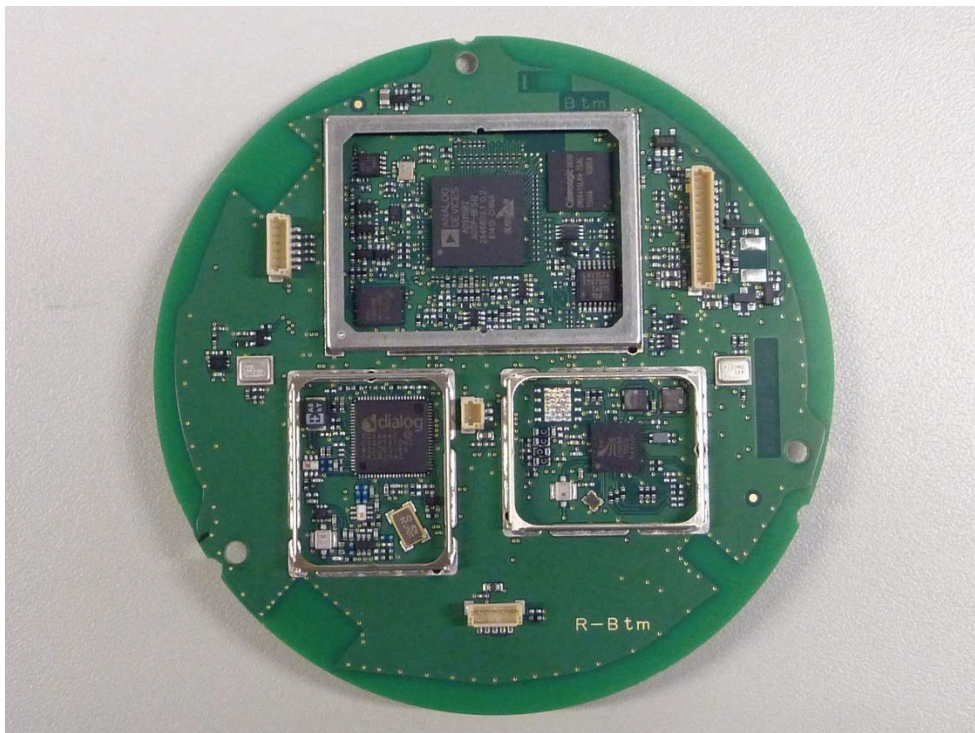




Photo 3:



Photo 4:



## Annex D: Document History

Version	Applied varChanges	Date of Release
1.0	Initial Release	2016-01-19

## Annex E: Further Information

### Glossary

DUT	-	Device under Test
EMC	-	Electromagnetic Compatibility
EUT	-	Equipment under Test
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	not applicable
S/N	-	Serial Number
SW	-	Software

## Annex F: Safety exposure levels

### Prediction of MPE limit at a given distance:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

where: S = Power density  
 P = Power input to the antenna  
 G = Antenna gain  
 R = Distance to the center of radiation of the antenna

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled "Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure"

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
300 -1500	f/1500	30
1500 - 100000	1.0	30

where f = Frequency (MHz)

#### Prediction:

P	Max power input to the antenna:	18.74 dBm
P	Max power input to the antenna:	74.8 mW
R	Distance:	20 cm
G	Maximum antenna gain:	3.00 dBi
G	Maximum antenna gain:	2.0 numeric
S	MPE limit for uncontrolled exposure:	1 mW/cm <sup>2</sup>

Calculated Power density:	<b>0.0298 mW/cm<sup>2</sup></b>
	<b>0.298 W/m<sup>2</sup></b>

### This prediction demonstrates the following:

The power density levels at a distance of 20 cm are below the maximum levels allowed by FCC regulations



**Annex G: Accreditation Certificate**



Deutsche Akkreditierungsstelle GmbH  
German Accreditation Body

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleG-BV  
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition



**Accreditation**

The Deutsche Akkreditierungsstelle GmbH (German Accreditation Body) attests that the testing laboratory

**CETECOM ICT Services GmbH**  
Untertürkheimer Straße 6-10  
66117 Saarbrücken

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

- Wired communications and DECT
- Acoustic
- Radio
- Short Range Devices (SRD)
- RFID
- WiMax and Richtfunk
- Mobile radio (GSM / DCS), Over the Air (OTA) Performance
- Electromagnetic Compatibility (EMC) incl. Automotive
- Product safety
- SAR and Hearing Aid Compatibility (HAC)
- Environmental simulation
- Smart Card Terminals
- Bluetooth
- Wi-Fi-Services

The accreditation certificate shall only apply in connection with the notice of accreditation of 2014-03-07 with the accreditation number D-PL-12076-01 and is valid until 2018-01-17. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 77 pages.

Registration number of the certificate: **D-PL-12076-01-00**

Frankfurt am Main, 2016-03-07

Dirk von der Heide  
Head of Division 2

This document is a translation. The definitive version is the original German accreditation certificate.  
See www.dakks.de

Front side of the certificate

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The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkKS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:  
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ILAC: [www.ilac.org](http://www.ilac.org)  
IAF: [www.iaf.eu](http://www.iaf.eu)

Back side of the certificate

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

<https://www.cetecom.com/de/cetecom-group/europa/deutschland-saarbruecken/akkreditierungen.html>