



## **Accredited testing-laboratory**

**DAR registration number: DAT-P-176/94-D1**

**Federal Motor Transport Authority (KBA)  
DAR registration number: KBA-P 00070-97**

**Recognized by the Federal Communications Commission**

**Anechoic chamber registration no.: 90462 (FCC)**

**Anechoic chamber registration no.: 3463A-1 (IC)**

**Certification ID: DE 0001**

**Accreditation ID: DE 0002**

**Accredited Bluetooth® Test Facility (BQTF)**

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### **Annex to**

**Test report no. : 2-4576-04-02/07**

**Type identification : AAC-1052041-BV**

**Applicant : Sony Ericsson Mobile Communications AB**

**FCC ID : PY7A1052041**

**IC Reg. No. : 4170B-A1052041**

**Test standards : 47 CFR Part 15**

**RSS - 210 Issue 6**

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## 1 General information

### 1.1 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 generalisations 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.

**Test laboratory manager:**

**2007-05-14      Detlev Gillmann**

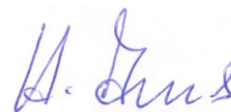


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Date	Name	Signature
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**Technical responsibility for area of testing:**

**2007-05-14      Harro Ames**



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Date	Name	Signature
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## 1.2 Testing laboratory

CETECOM ICT Services GmbH

Untertürkheimer Straße 6 - 10

66117 Saarbrücken

Germany

Phone: + 49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

e-mail: [info@ICT.cetecom.de](mailto:info@ICT.cetecom.de)

Internet: <http://www.cetecom-ict.de>

State of accreditation: The test laboratory (area of testing) is accredited according to  
DIN EN ISO/IEC 17025  
DAR registration number: DAT-P-176/94-D1

Accredited by: Federal Motor Transport Authority (KBA)  
DAR registration number: KBA-P 00070-97

Testing location, if different from CETECOM ICT Services GmbH:

Name :  
Street :  
Town :  
Country :  
Phone :  
Fax :

## 1.3 Details of applicant

Name:	Sony Ericsson Mobile Communications AB
Street:	Torshamnsgatan 27
Town:	164 94 Kista
Country:	Sweden
Telephone:	+46 46 19 40 00
Fax:	+46 8 404 3430
Contact:	Kenth Skoglund
E-mail:	<a href="mailto:kenth.skoglund@sonyericsson.com">kenth.skoglund@sonyericsson.com</a>
Telephone:	+46 8 508 77 056

## 1.4 Application details

Date of receipt of order:	2007-03-14
Date of receipt of test item:	2007-05-03
Date of start test:	2007-05-03
Date of end test	2007-05-14
Persons(s) who have been present during the test:	

## **2 Test standard/s:**

<b>47 CFR Part 15</b>	<b>2006-08</b>	<b>Title 47 of the Code of Federal Regulations; Chapter I- Federal Communications Commission subchapter A - general, Part 15-Radio frequency devices</b>
<b>RSS - 210 Issue 6</b>	<b>2005-09</b>	<b>Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment</b>

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## 3 Technical tests

### 3.1 Details of manufacturer

Name:	Sony Ericsson Mobile Communications AB
Street:	Nya Vattentorget
Town:	22188 Lund
Country:	Sweden

### 3.2 Test item(s) and test configuration

No.: 1      Standard Charger CST-75      with      AAC-1052041-BV

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## **4 Summary of Measurement Results and list of all performed test cases**

- ☒ **No deviations from the technical specifications were ascertained**
- ☐ There were deviations from the technical specifications ascertained

Section in this Report	Test Name	Verdict
6.1	Conducted limits CFR Part 15.207, 15.107 RSS 210, Issue 6, Section 6.6 , 7.4	Pass
6.2	Receiver spurious emission radiated (Idle mode) CFR Part SUBCLAUSE § 15.109 RSS 210, Issue 6, Section 7.3 Receiver Spurious Emissions (Radiated)	Pass

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## 5 Measurements and results

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 20 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 conforming to 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 conforming to ANSI C63.2-1996 item 15.

9 kHz – 150 kHz ,Quasi Peak measurement, 200 Hz Bandwidth, passive loop antenna.

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

30 MHz - 200 MHz: Quasi Peak measurement, 120 KHz Bandwidth, biconical antenna

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

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

All measurement settings are according to FCC 15.109 and 15.107



## 6 Annex A: FCC Part 15 Subpart B

### 6.1 Conducted Limits

#### Reference

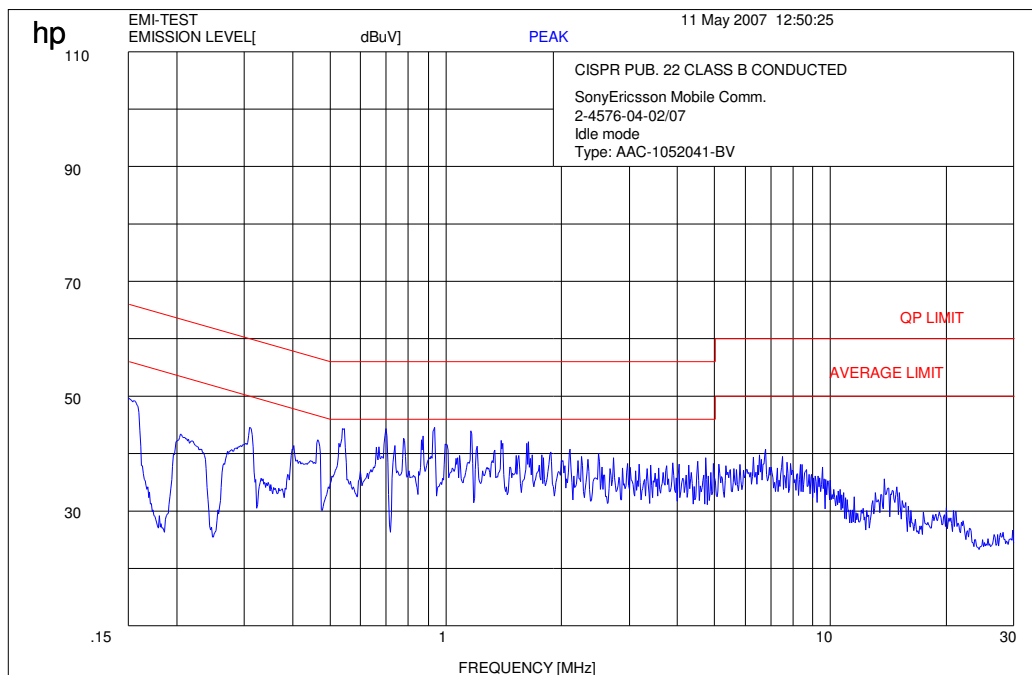
FCC:	CFR Part 15.207, 15.107
IC:	RSS 210, Issue 6, Section 6.6 , 7.4

**Limits:** § 15.107 / 15.207

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

\* Decreases with the logarithm of the frequency

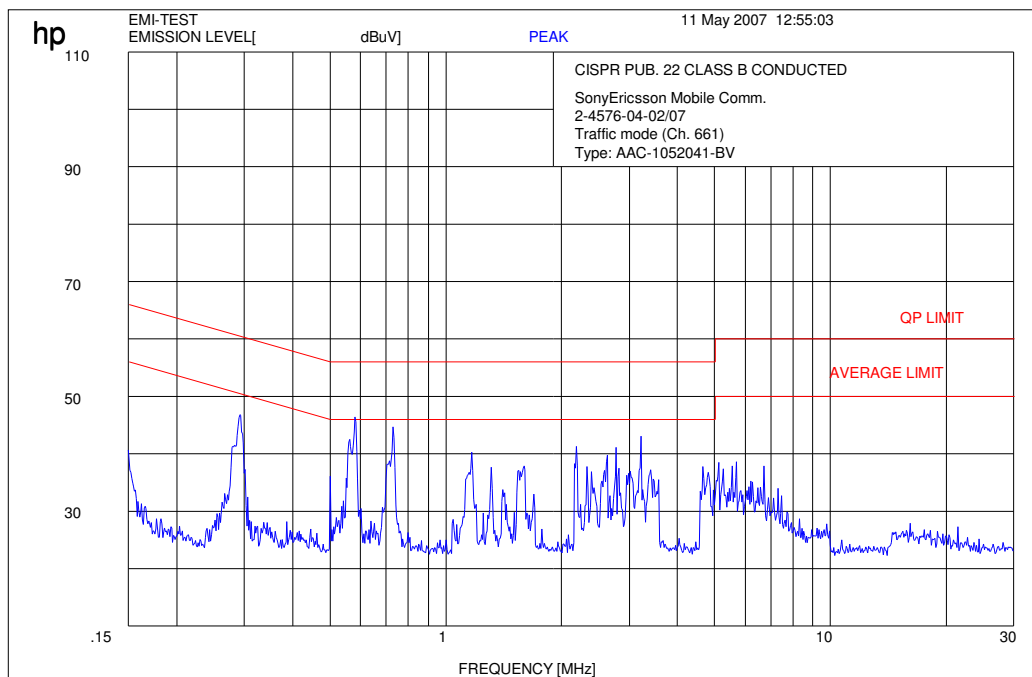
EUT: : AC/DC Standard charger  
( with mobile AAC-1052041-BV )  
Power AC (measured) : 115 V / 60 Hz  
Manufacturer: : SonyEricsson  
Operating Condition : Idle mode  
Test Site: : Room 006 (Shielded chamber)  
Operator: : Gillmann



Upper Limit LINE CISPPR 22 QP  
Lower Limit LINE CISPPR 22 AV

Setting : 150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth,  
L1 and N – system ( max. Hold)

EUT: : AC/DC Standard charger  
( with mobile AAC-1052041-BV )  
Power AC (measured) : 115 V / 60 Hz  
Manufacturer: : SonyEricsson  
Operating Condition : Traffic mode (Ch. 661)  
Test Site: : Room 006 (Shielded chamber)  
Operator: : Gillmann

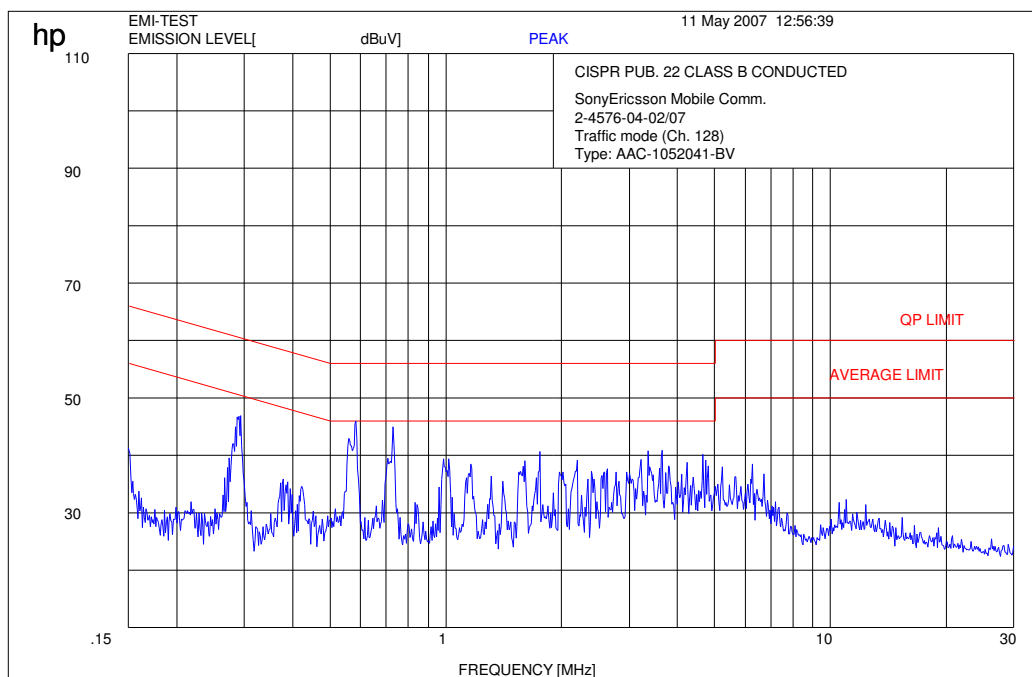


Upper Limit LINE CISPPR 22 QP

Lower Limit LINE CISPPR 22 AV

Setting : 150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth,  
L1 and N – system ( max. Hold)

EUT: : AC/DC Standard charger  
( with mobile AAC-1052041-BV )  
Power AC (measured) : 115 V / 60 Hz  
Manufacturer: : SonyEricsson  
Operating Condition : Traffic mode (Ch 128)  
Test Site: : Room 006 (Shielded chamber)  
Operator: : Gillmann



Upper Limit LINE CISPPR 22 QP

Lower Limit LINE CISPPR 22 AV

Setting : 150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth,  
L1 and N – system ( max. Hold)

## 6.2 Receiver spurious emission radiated (Idle mode)

### Reference

FCC:	CFR Part SUBCLAUSE § 15.109
IC:	RSS 210, Issue 6, Section 7.3 Receiver Spurious Emissions (Radiated)

SPURIOUS EMISSIONS LEVEL ( $\mu\text{V/m}$ )								
MHz			MHz			MHz		
F [MHz]	Detector	Level [ $\mu\text{V/m}$ ]	F [MHz]	Detector	Level [ $\mu\text{V/m}$ ]	F [MHz]	Detector	Level [ $\mu\text{V/m}$ ]
Measurement uncertainty			$\pm 3 \text{ dB}$					

$f < 1 \text{ GHz}$  : RBW/VBW: 100 kHz

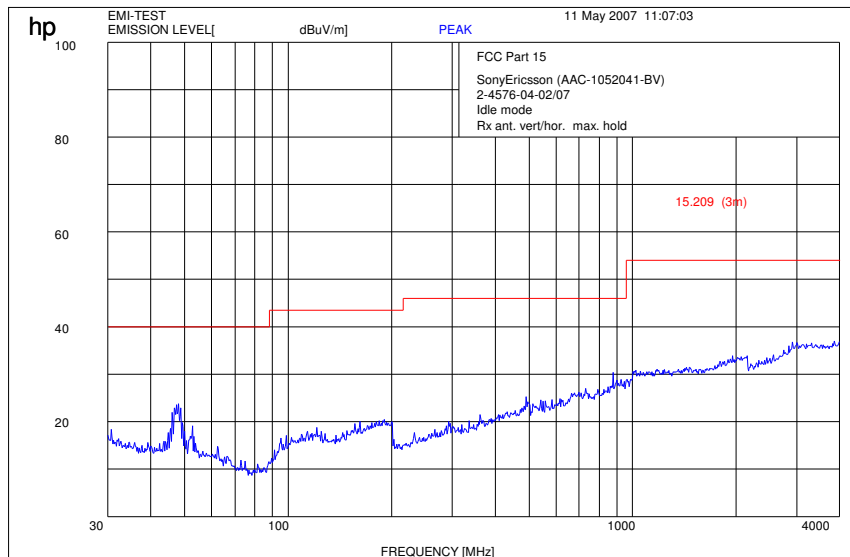
$f \geq 1 \text{ GHz}$  : RBW/VBW: 1 MHz

### Limits

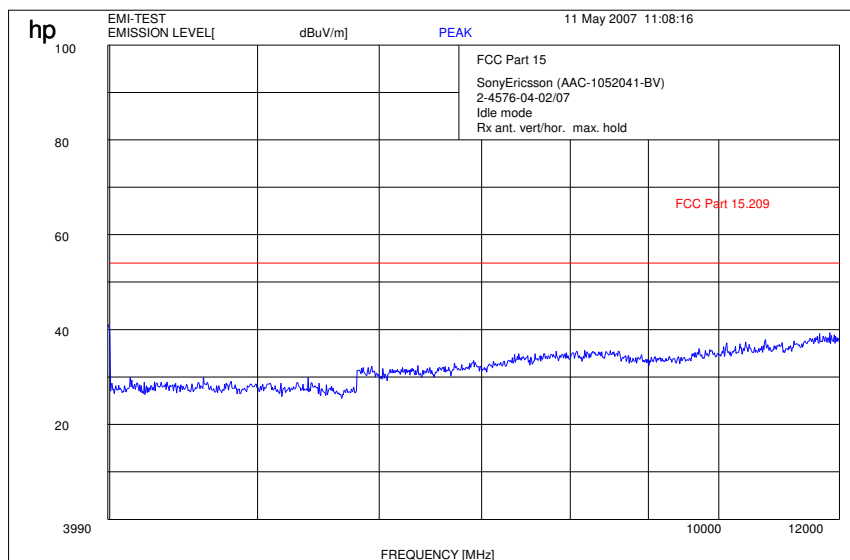
### SUBCLAUSE § 15.109

Frequency (MHz)	Field strength ( $\mu\text{V/m}$ )	Measurement distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

## IDLE MODE (30 MHz - 4 GHz)



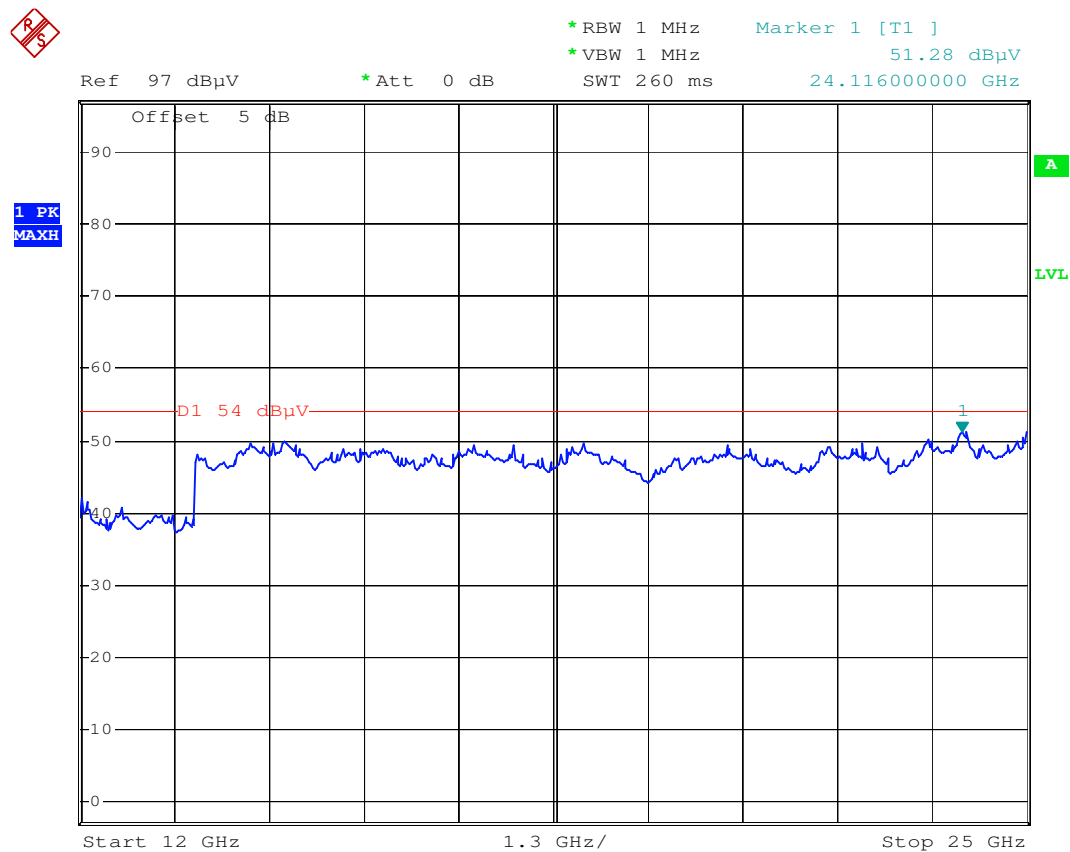
## Idle Mode (4 GHz – 12.0 GHz)



$f < 1 \text{ GHz}$  : RBW/VBW: 100 kHz

$f \geq 1 \text{ GHz}$  : RBW / VBW 1 MHz

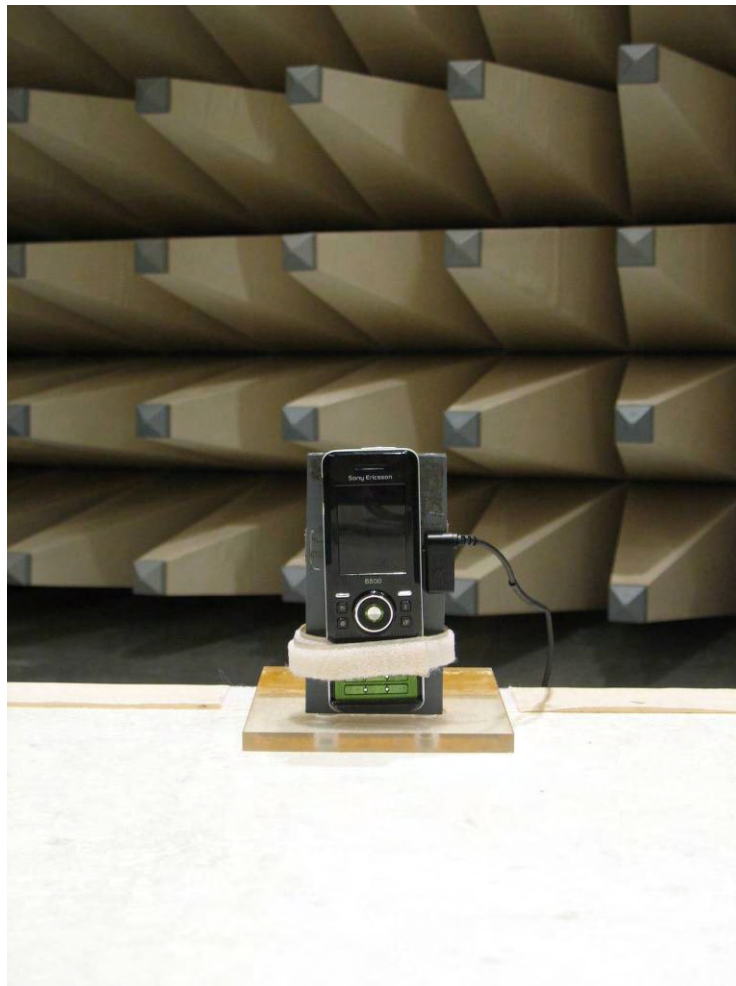
## Idle Mode (12 GHz - 25 GHz)



Date: 12.MAY.2007 11:11:25

## 7 Photographs of the Test Set-up

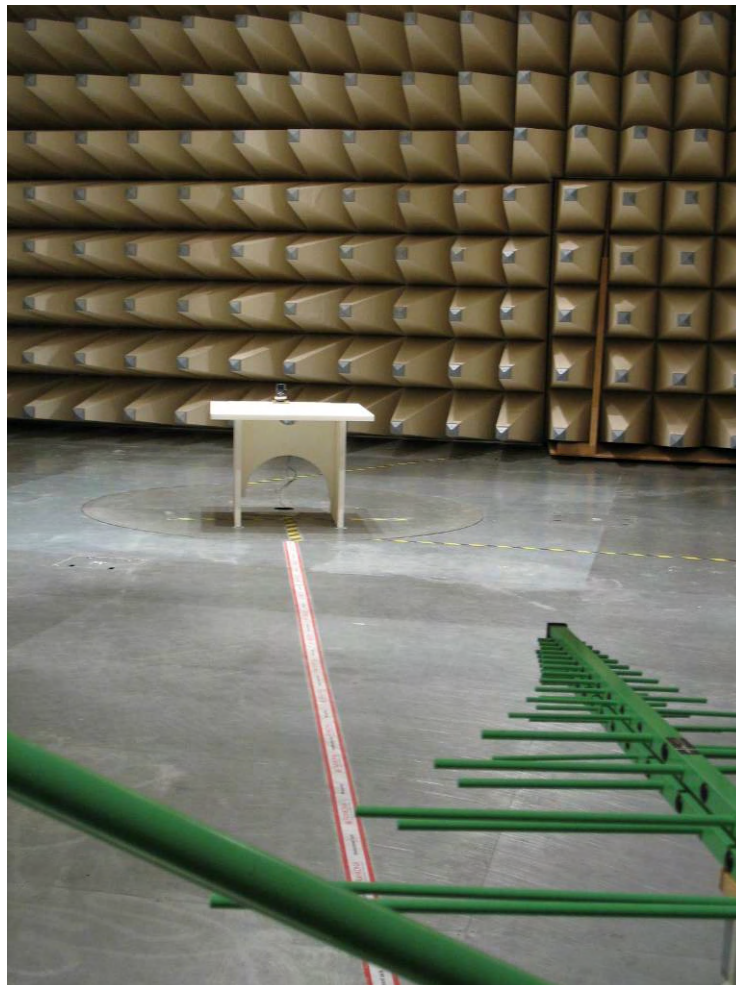
**Photo 1: Radiated Test Set-up**





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**Photo 2: Radiated Test Set-up**



**Photo 3: Conducted Test Set-up**



## 8 Photographs of the EUT

Photo documentation

Photo 1:



Photo 2:





Photo 3:



Photo 4:



Photo 5:



Photo 6:





Photo 7:



Photo 8:



Photo 9:



Photo 10:





Photo 11:

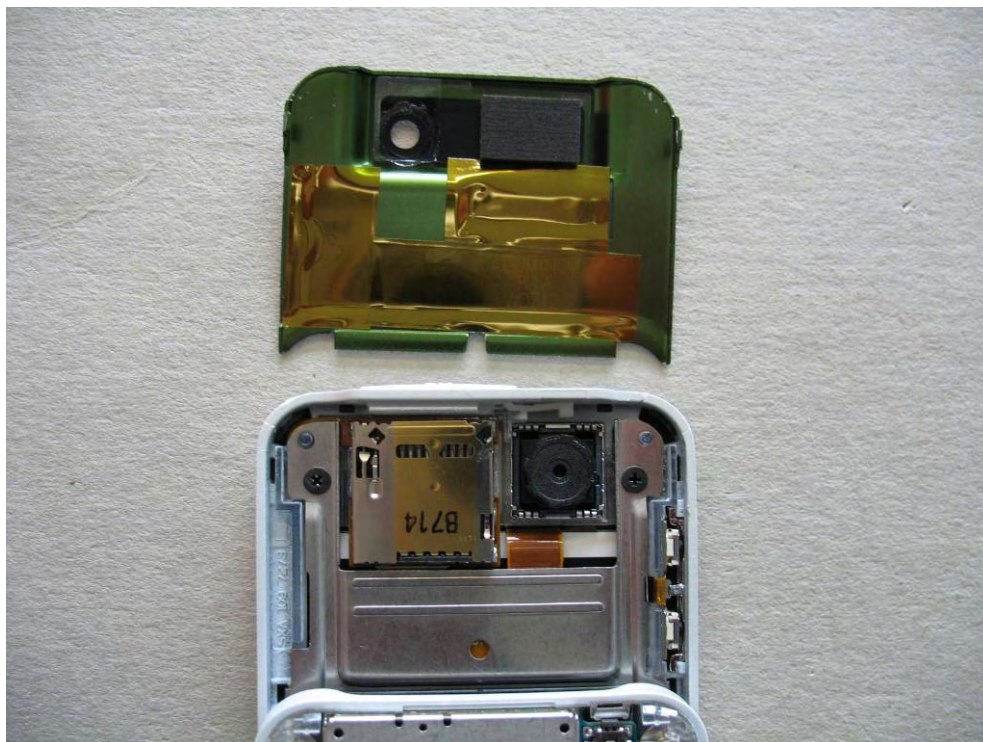


Photo 12:





Photo 13:



Photo 14:

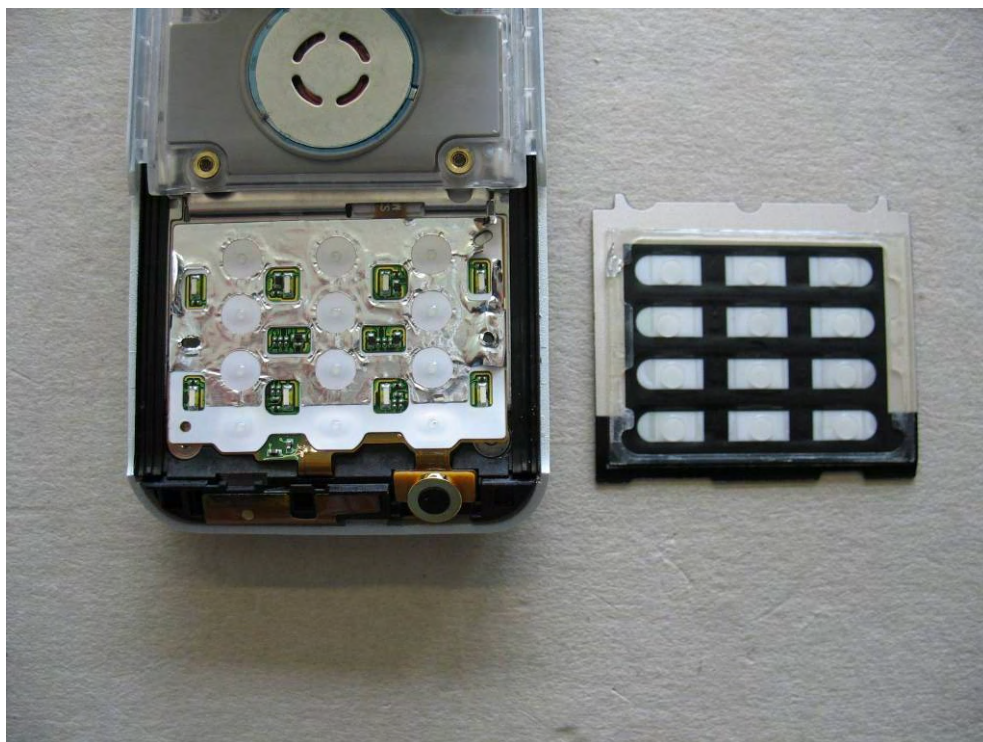


Photo 15:

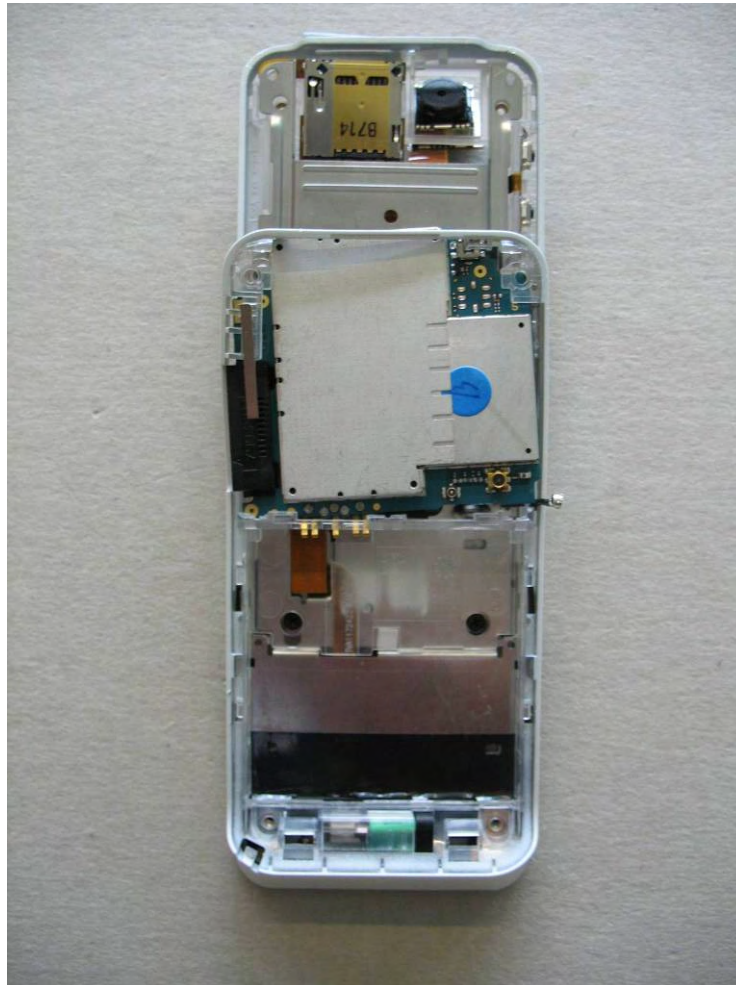




Photo 16:

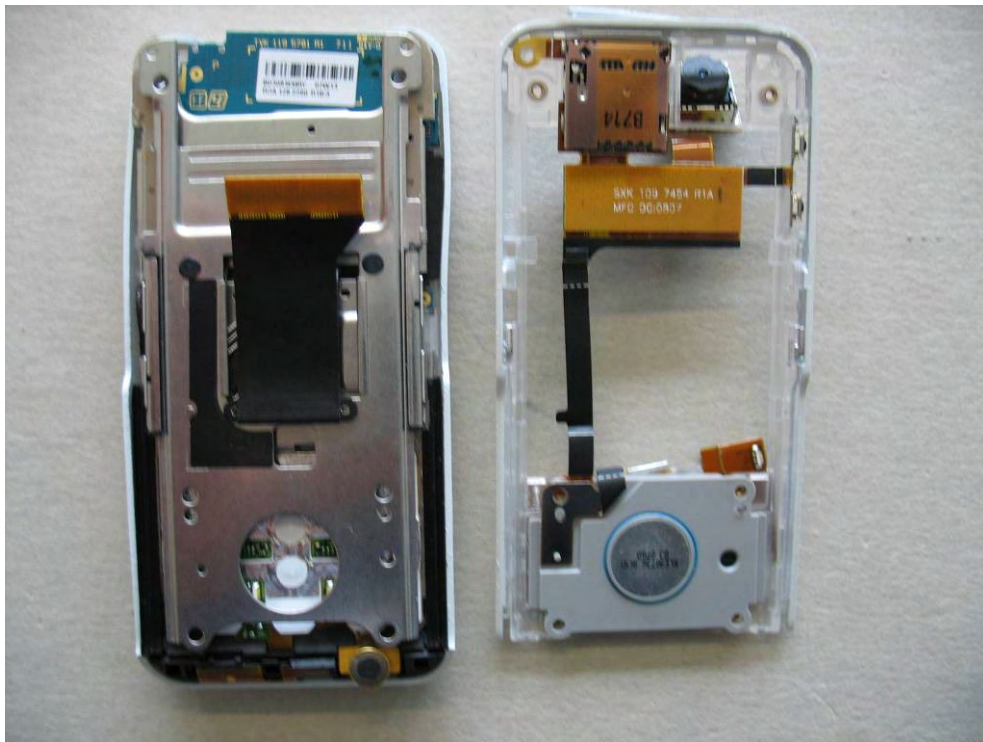


Photo 17:



Photo 18:

