

## Test Report

Conducted Output power GSM 900 / 1800 / 1900

**Siemens Communications, Inc.**

Report No:  
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## 1 Objective and Method

FCC approval for mobile phones requires reporting output power at RF output terminal pursuant to title 47 CFR part 2.1046. SIEMENS devices use special test fixtures with 50 Ohm connection suitable for such measurements. Using a special adapter and connecting the phone to an appropriate load in terms of the input port of the measurement equipment used, we hereby report the values for highest power setting.

## 2 Results

### 2.1 GSM 1900

| Device<br>IMEI Number | Average Power during burst at connector |                       |                       |
|-----------------------|-----------------------------------------|-----------------------|-----------------------|
|                       | Ch. 512<br>1850.2 MHz                   | Ch. 661<br>1880.0 MHz | Ch. 810<br>1909.8 MHz |
| 004400000097517       | 29.0                                    | 29.1                  | 29.1                  |
| 004400000097335       | 29.1                                    | 29.2                  | 29.2                  |
| 004400000097384       | 29.1                                    | 29.2                  | 29.2                  |
| 004400000097467       | 29.0                                    | 29.1                  | 29.1                  |
| 004400000097442       | 29.0                                    | 29.1                  | 29.1                  |
| 004400000097293       | 29.0                                    | 29.1                  | 29.1                  |
| 004400000061125       | 29.0                                    | 29.1                  | 29.1                  |

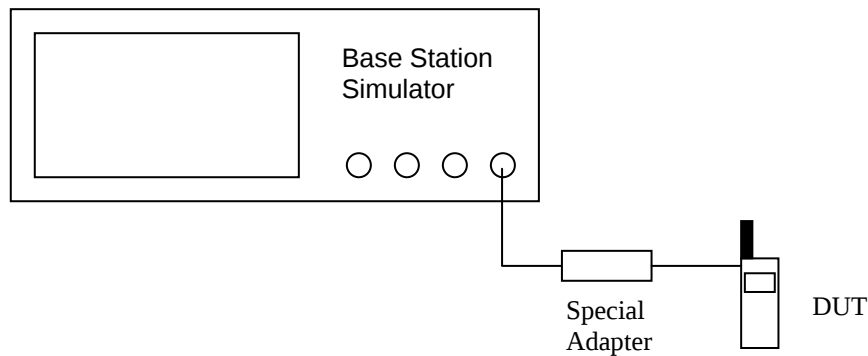
**Table 2.1 Results of power measurements at connector in the GSM 1900 Band**

### 3 Minutes of Test

#### 3.1 Description of device under test

|                           |                     |
|---------------------------|---------------------|
| Mobile Phone:             | Siemens A75         |
| Frequency Range GSM 900:  | 880 – 915 MHz       |
| Frequency Range GSM 1800: | 1710 – 1785 MHz     |
| Frequency Range GSM 1900: | 1850 – 1990 MHz     |
| Siemens Part Number:      | S30880-Q2790-****_* |

#### 3.2 Measurement Set-up



|                         |                      |
|-------------------------|----------------------|
| Base Station Simulator: | CMU 200              |
| Serial Number:          | 106697               |
| Software Version:       | Base 3.54 / GSM 3.55 |

**Figure 1: Block Diagram of set-up for conducted power measurement**

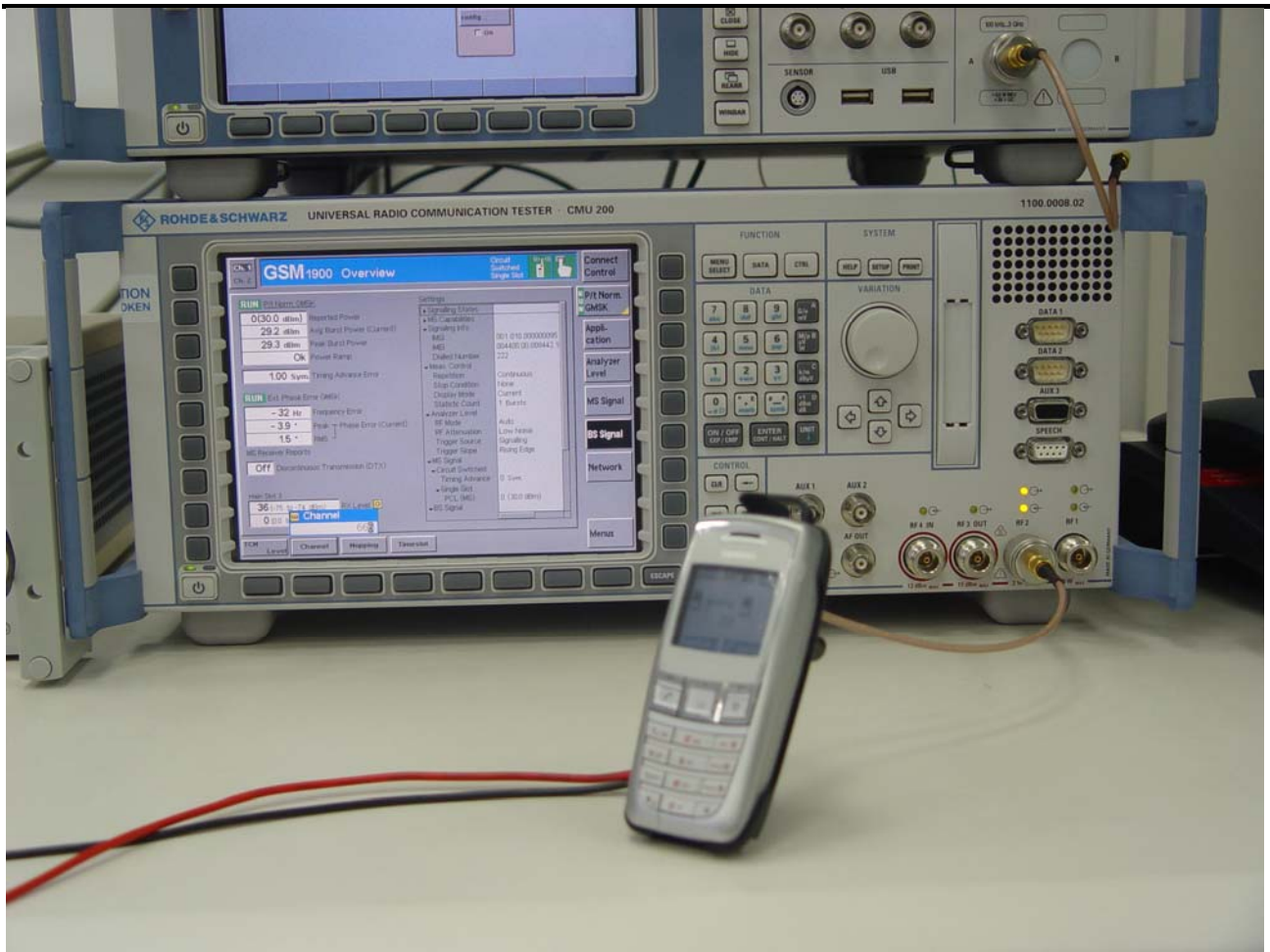
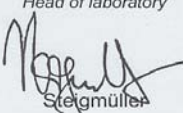
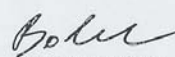


Figure 2: Set-up for conducted power measurement

## 4 Calibration Certificate

| <br><b>ROHDE &amp; SCHWARZ</b><br>Messgerätebau GmbH        |                                           | Nummer 20-144784<br>Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Kalibrierschein</b><br><i>Calibration Certificate</i>                                                                                      |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Gegenstand</b><br><i>Item</i>                                                                                                              | CMU200 UNIV.RADIOCOMM.                    | <p>Dieser Kalibrierschein dokumentiert, daß der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Meßwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95 % im zugeordneten Werteintervall (Erweiterte Meßunsicherheit mit <math>k = 2</math>).</p> <p>Die Kalibrierung erfolgte mit Meßmitteln und Normen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&amp;S-Laboratorien.</p> <p>Grundsätze und Verfahren der Kalibrierung entsprechen IEC/ISO 17025. Das Bestätigungssystem für die verwendeten Meßmittel entspricht DIN ISO 10012-1.</p> <p>Das angewandte Qualitätsmanagement-System ist zertifiziert nach DIN EN ISO 9001.</p> <p>Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Signifizierungen sind ungültig.</p> <p>Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.</p> <p><i>This calibration certificate documents, that the named item is tested and measured against defined specifications.</i></p> <p><i>Measurement results are located usually in the corresponding interval with a probability of approx. 95 % (coverage factor <math>k = 2</math>).</i></p> <p><i>Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no national standards are available, measurements are referenced to standards of the R&amp;S laboratories.</i></p> <p><i>Principles and methods of calibration correspond with IEC/ISO 17025. The metrological confirmation system for the measuring equipment used is in compliance with DIN ISO 10012-1. The applied quality system is certified to DIN EN ISO 9001.</i></p> <p><i>This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid.</i></p> <p><i>The user is obliged to have the item recalibrated at appropriate intervals.</i></p> |                                                                                                                                                           |
| <b>Hersteller</b><br><i>Manufacturer</i>                                                                                                      | ROHDE & SCHWARZ                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Typ</b><br><i>Type</i>                                                                                                                     | CMU200                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Material Nr.</b><br><i>Material No.</i>                                                                                                    | 1100.0008K02                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Serial Nr.</b><br><i>Serial No.</i>                                                                                                        | 106697                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Auftraggeber</b><br><i>Customer</i>                                                                                                        |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Bestellung Nr.</b><br><i>Order No.</i>                                                                                                     |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Ort u. Datum d. Kalibrierung</b><br><i>Place and date of calibration</i>                                                                   | Memmingen, 2004-12-14                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Umfang der Kalibrierung</b><br><i>Scope of calibration</i>                                                                                 | Standard Calibration                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Eingangsprüfung</b><br><i>Performance on receipt</i>                                                                                       |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Kalibrierergebnis</b><br><i>Result of calibration</i>                                                                                      | Measurement results within specifications |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Umfang des Kalibrierscheins</b><br><i>Extent of the certificate</i>                                                                        | 2 pages incl. this                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <br>RefNo. 20-144784<br>Cal 2004-12-14 Customized Due Date |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |
| <b>Ausstellungsdatum</b><br><i>Date of issue</i>                                                                                              | 2004-12-14                                | <b>Laborleitung</b><br><i>Head of laboratory</i><br><br>Stegmüller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Bearbeiter</b><br><i>Person responsible</i><br><br>Alexander Bohl |

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 Sitz der Gesellschaft: München · Registeramt: Amtsgericht München HRB 1059

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