



# InterLab®

## Final Report on

### Cinterion Wireless Module PH8-P

#### HW: Release 2, B2

#### SW: Revision 01.370

**Report Reference:** MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Date:** September 22, 2011

**Test Laboratory:**

7Layers AG  
Borsigstr. 11  
40880 Ratingen  
Germany

Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

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Aufsichtsratsvorsitzender  
Chairman of the Supervisory Board:  
Markus Becker  
Vorstand Board:  
Dr. H.-J. Meckelburg



Registergericht registered in:  
Düsseldorf, HRB 44096  
UST-IdNr VAT No.:  
DE 203159652  
TAX No. 147/5869/0385



## 1 Administrative Data

### 1.1 Project Data

*Project Responsible:* Mr. René Houx  
*Date Of Test Report:* 2011/09/22  
*Date of first test:* 2011/08/15  
*Date of last test:* 2011/08/20

### 1.2 Applicant Data

*Company Name:* Cinterion Wireless Modules GmbH

*Street:* Siemensdamm 50  
*City:* 13629 Berlin  
*Country:* Germany

*Contact Person:* Mr. Thorsten Liebig

*Function:* Manager Approval  
*Phone:* +49 (30) 31102-8241  
*E-Mail:* thorsten.liebig@cinterion.com

### 1.3 Test Laboratory Data

The following list shows all places and laboratories involved for test result generation:

#### 7 layers DE

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*Company Name :* 7 layers AG  
*Street :* Borsigstrasse 11  
*City :* 40880 Ratingen  
*Country :* Germany  
*Contact Person :* Mr. Michael Albert  
*Phone :* +49 2102 749 201  
*Fax :* +49 2102 749 444  
*E Mail :* michael.albert@7Layers.de

#### Laboratory Details

| Lab ID | Identification     | Responsible                             | Accreditation Info                      |
|--------|--------------------|---|---|
| Lab 1  | Radiated Emissions | Mr. Robert Machulec<br>Mr. Andreas Petz | DAkkS-Registration no. D-PL-12140-01-01 |
| Lab 2  | Radio Lab          | Mr. Robert Machulec<br>Mr. Andreas Petz | DAkkS-Registration no. D-PL-12140-01-01 |

### 1.4 Signature of the Testing Responsible

Robert Machulec  
responsible for tests performed in: Lab 1, Lab 2

## 1.5 Signature of the Accreditation Responsible

A handwritten signature in blue ink, appearing to read "B. Retka". To the right of the signature, the text "[B RETKA]" is written in a smaller, printed font.

Accreditation scope responsible person  
responsible for Lab 1, Lab 2

## 2 Test Object Data

### 2.1 General OUT Description

The following section lists all OUTs (Object's Under Test) involved during testing.

#### OUT: PH8-P

*Type / Model / Family:*

Cinterion Wireless Module PH8-P  
HW: Release 2, B2  
SW: Revision 01.370

*Product Category:*

Module

*Parameter List:*

*Parameter name*

*Value*

**Parameter for Scope FCC\_v2:**

|                        |   |
|------------------------|---|
| Antenna gain 1900 band | not specified (dBi)   |
| Antenna gain 850 band  | not specified (dBi)   |
| Antenna gain GPS       | not specified (dBi)   |
| DC Power Supply        | 4.2 (V)   |
| highest channel        | 251 (848.8MHz) for GSM850, 810 (1909.8MHz) for GSM1900, 4233 (846.6MHz) for FDD5, 9538 (1907.6MHz) for FDD2 |
| lowest channel         | 128 (824.2MHz) for GSM850, 512 (1850.2MHz) for GSM1900, 4132 (826.4MHz) for FDD5, 9262 (1852.4MHz) for FDD2 |
| mid channel            | 190 (836.6MHz) for GSM850, 661 (1880.0MHz) for GSM1900, 4183 (836.6MHz) for FDD5, 9400 (1880MHz) for FDD2   |



## 2.2 Detailed Description of OUT Samples

### Sample : b01

|                           |                       |                     |        |
|---------------------------|-----------------------|---------------------|--------|
| <i>OUT Identifier</i>     | PH8-P                 |                     |        |
| <i>Sample Description</i> | sample #02            |                     |        |
| <i>Serial No.</i>         | IMEI: 004401080640028 |                     |        |
| <i>HW Status</i>          | Release 2, B2         |                     |        |
| <i>SW Status</i>          | Revision 01.370       |                     |        |
| <i>Date of Receipt</i>    | 2011/08/05            |                     |        |
| <i>Low Voltage</i>        | 3.3 V                 | <i>Low Temp.</i>    | -10 °C |
| <i>High Voltage</i>       | 4.2 V                 | <i>High Temp.</i>   | +55 °C |
| <i>Nominal Voltage</i>    | 4.2 V                 | <i>Normal Temp.</i> | +22 °C |

## 2.3 OUT Features

### Features for OUT: PH8-P

| Designation                       | Description  | Allowed Values | Supported Value(s) |
|-----------------------------------|--|----------------|--------------------|
| <b>Features for scope: FCC_v2</b> |  |                |                    |
| AC                                | The OUT is powered by or connected to AC Mains   |                |                    |
| DC                                | The OUT is powered by or connected to DC Mains   |                |                    |
| EDGE850                           | EUT supports EDGE in the band 824 MHz - 849 MHz  |                |                    |
| EDGE1900                          | EUT supports EDGE in the band 1850 MHz - 1910 MHz  |                |                    |
| FDD2                              | EUT supports UMTS FDD2 in the band 1850 MHz - 1910 MHz   |                |                    |
| FDD5                              | EUT supports UMTS FDD5 in the band 824 MHz - 849 MHz   |                |                    |
| GSM850                            | EUT supports GSM850 band 824MHz - 849MHz   |                |                    |
| HSDPA-FDD2                        | EUT supports UMTS FDD2 HSDPA in the band 1850 MHz - 1910 MHz   |                |                    |
| HSDPA-FDD5                        | EUT supports UMTS FDD5 HSDPA in the band 824 MHz - 849 MHz   |                |                    |
| HSUPA-FDD2                        | EUT supports UMTS FDD2 HSUPA in the band 1850 MHz - 1910 MHz   |                |                    |
| HSUPA-FDD5                        | EUT supports UMTS FDD5 HSUPA in the band 824 MHz - 849 MHz   |                |                    |
| PantC                             | permanent fixed antenna connector, which may be built-in, designed as an indispensable part of the equipment |                |                    |
| PCS1900                           | EUT supports PCS1900 band 1850MHz - 1910MHz  |                |                    |



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## 2.4 Auxiliary Equipment

| AE No.  | Type Designation      | Serial No. | HW Status | SW Status | Description              |
|---------|-----------------------|------------|-----------|-----------|--------------------------|
| AE 09   | -                     | -          | -         | -         | Direct RF coupler to SMA |
| AE 02   | -                     | -          | -         | -         | Flex cable               |
| AE Ant1 | -                     | -          | -         | -         | GSM/UMTS antenna         |
| AE Ant2 | -                     | -          | -         | -         | UMTS antenna             |
| AE Ant3 | ANN-MS-0-005<br>M827B | 601657     | -         | -         | GPS antenna              |
| AE 01   | DSB75_B1.1_0152       | -          | -         | -         | Evaluation board         |

## 2.5 Setups used for Testing

For each setup a relation is given to determine if and which samples and auxiliary equipment is used. The left side list all OUT samples and the right side lists all auxiliary equipment for the given setup.

| Setup No. | List of OUT samples |                    | List of auxiliary equipment |                |
|-----------|---------------------|--------------------|-----------------------------|----------------|
|           | Sample No.          | Sample Description | AE No.                      | AE Description |

### **B01\_direct (used for measurement using antenna port at the module)**

|             |            |       |                          |
|-------------|------------|-------|--------------------------|
| Sample: b01 | sample #02 | AE 09 | Direct RF coupler to SMA |
|             |            | AE 02 | Flex cable               |
|             |            | AE 01 | Evaluation board         |

### **B01\_rad (used for radiated measurement using external antennas)**

|             |            |         |                  |
|-------------|------------|---------|------------------|
| Sample: b01 | sample #02 | AE 02   | Flex cable       |
|             |            | AE Ant1 | GSM/UMTS antenna |
|             |            | AE Ant2 | UMTS antenna     |
|             |            | AE Ant3 | GPS antenna      |
|             |            | AE 01   | Evaluation board |

### **B01\_RF1 (used for measurement at external RF connector RF1)**

|             |            |       |                  |
|-------------|------------|-------|------------------|
| Sample: b01 | sample #02 | AE 02 | Flex cable       |
|             |            | AE 01 | Evaluation board |



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### **3 Results**

#### **3.1 General**

|  |   |
|--|---|
| <b>Documentation of tested devices:</b>    | Available at the test laboratory.   |
| <b>Interpretation of the test results:</b> | The results of the inspection are described on the following pages, where 'Conformity' or 'Passed' means that the certification criteria were verified and that the tested device is conform to the applied standard. |
|  | In cases where 'Declaration' is printed, the required documents are available in the manufacturers product documentation.   |
|  | In cases where 'not applicable' is printed, the test case requirements are not relevant to the specific equipment implementation.   |

#### **3.2 List of the Applicable Body**

(Body for Scope: FCC\_v2)

| <i>Designation</i>                                | <i>Description</i>                 |
|---|------------------------------------|
| FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES | Part 24, Subpart E - Broadband PCS |

#### **3.3 List of Test Specification**

|                            |  |
|----------------------------|--|
| <i>Test Specification:</i> | <b>FCC part 2 and 24</b>   |
| <i>Version</i>             | 10-1-10 Edition  |
| <i>Title:</i>              | PART 2 - GENERAL RULES AND REGULATIONS<br>PART 24 - PERSONAL COMMUNICATIONS SERVICES |

### 3.4 Summary

| Test Case Identifier / Name<br>Test (condition)  | Result | Date of Test | Lab Ref. | Setup      |
|--|--------|--------------|----------|------------|
| <b>24.1 RF Power Output §2.1046, §24.232</b><br>24.1; Frequency Band = 1900, Mode = EDGE, Channel = 512, Frequency = 1850.2MHz, Method = conducted | Passed | 2011/08/19   | Lab 2    | B01_direct |
| 24.1; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz, Method = conducted   | Passed | 2011/08/19   | Lab 2    | B01_direct |
| 24.1; Frequency Band = 1900, Mode = EDGE, Channel = 810, Frequency = 1909.8MHz, Method = conducted   | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = 1900, Mode = GSM, Channel = 512, Frequency = 1850.2MHz, Method = conducted  | Passed | 2011/08/19   | Lab 2    | B01_direct |
| 24.1; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz, Method = conducted  | Passed | 2011/08/19   | Lab 2    | B01_direct |
| 24.1; Frequency Band = 1900, Mode = GSM, Channel = 810, Frequency = 1909.8MHz, Method = conducted  | Passed | 2011/08/19   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_1, Channel = 9262, Frequency = 1852.4MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_1, Channel = 9400, Frequency = 1880MHz, Method = conducted                                       | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_1, Channel = 9538, Frequency = 1907.6MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_2, Channel = 9262, Frequency = 1852.4MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_2, Channel = 9400, Frequency = 1880MHz, Method = conducted                                       | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_2, Channel = 9538, Frequency = 1907.6MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_3, Channel = 9262, Frequency = 1852.4MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_3, Channel = 9400, Frequency = 1880MHz, Method = conducted                                       | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_3, Channel = 9538, Frequency = 1907.6MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_4, Channel = 9262, Frequency = 1852.4MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_4, Channel = 9400, Frequency = 1880MHz, Method = conducted                                       | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSDPA_subtest_4, Channel = 9538, Frequency = 1907.6MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_1, Channel = 9262, Frequency = 1852.4MHz, Method = conducted                                     | Passed | 2011/08/20   | Lab 2    | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_1, Channel = 9400, Frequency = 1880MHz, Method = conducted                                       | Passed | 2011/08/20   | Lab 2    | B01_direct |

| Test Case Identifier / Name<br>Test (condition)  | Result | acc. Title 47 CFR chapter I part 24 subpart E |       |            |
|--|--------|---|-------|------------|
|  |        | Lab   | Ref.  | Setup      |
| <b>24.1 RF Power Output §2.1046, §24.232</b>   |        |   |       |            |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_1, Channel = 9538, Frequency = 1907.6MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_2, Channel = 9262, Frequency = 1852.4MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_2, Channel = 9400, Frequency = 1880MHz, Method = conducted   | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_2, Channel = 9538, Frequency = 1907.6MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_3, Channel = 9262, Frequency = 1852.4MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_3, Channel = 9400, Frequency = 1880MHz, Method = conducted   | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_3, Channel = 9538, Frequency = 1907.6MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_4, Channel = 9262, Frequency = 1852.4MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_4, Channel = 9400, Frequency = 1880MHz, Method = conducted   | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_4, Channel = 9538, Frequency = 1907.6MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_5, Channel = 9262, Frequency = 1852.4MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_5, Channel = 9400, Frequency = 1880MHz, Method = conducted   | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = HSUPA_subtest_5, Channel = 9538, Frequency = 1907.6MHz, Method = conducted | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9262, Frequency = 1852.4MHz, Method = conducted          | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz, Method = conducted            | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| 24.1; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9538, Frequency = 1907.6MHz, Method = conducted          | Passed | 2011/08/20                                    | Lab 2 | B01_direct |
| <b>24.2 Frequency stability §2.1055, §24.235</b>   |        |   |       |            |
| 24.2; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz                                 | Passed | 2011/08/19                                    | Lab 2 | B01_RF1    |
| 24.2; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz                                  | Passed | 2011/08/19                                    | Lab 2 | B01_RF1    |
| 24.2; Frequency Band = FDD2, Mode = HSDPA, Channel = 9400, Frequency = 1880MHz                                 | Passed | 2011/08/19                                    | Lab 2 | B01_RF1    |
| 24.2; Frequency Band = FDD2, Mode = HSUPA, Channel = 9400, Frequency = 1880MHz                                 | Passed | 2011/08/19                                    | Lab 2 | B01_RF1    |
| 24.2; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz                                | Passed | 2011/08/19                                    | Lab 2 | B01_RF1    |



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| <i>Test Case Identifier / Name</i>  | <i>Result</i> | <i>Date of Test</i> | <i>Lab</i> | <i>Ref.</i> | <i>Setup</i> |
|---|---------------|---------------------|------------|-------------|--------------|
| <b>24.3 Spurious emissions at antenna terminals §2.1051, §24.238</b>              |               |                     |            |             |              |
| 24.3; Frequency Band = 1900, Mode = EDGE, Channel = 512, Frequency = 1850.2MHz    | Passed        | 2011/08/19          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz    | Passed        | 2011/08/19          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = 1900, Mode = EDGE, Channel = 810, Frequency = 1909.8MHz    | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = 1900, Mode = GSM, Channel = 512, Frequency = 1850.2MHz     | Passed        | 2011/08/19          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz     | Passed        | 2011/08/19          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = 1900, Mode = GSM, Channel = 810, Frequency = 1909.8MHz     | Passed        | 2011/08/19          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = HSDPA, Channel = 9262, Frequency = 1852.4MHz  | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = HSDPA, Channel = 9400, Frequency = 1880MHz    | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = HSDPA, Channel = 9538, Frequency = 1907.6MHz  | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = HSUPA, Channel = 9262, Frequency = 1852.4MHz  | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = HSUPA, Channel = 9400, Frequency = 1880MHz    | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = HSUPA, Channel = 9538, Frequency = 1907.6MHz  | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9262, Frequency = 1852.4MHz | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz   | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |
| 24.3; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9538, Frequency = 1907.6MHz | Passed        | 2011/08/20          | Lab 2      | B01_direct  |              |



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| <i>Test Case Identifier / Name</i>  |               |                     | <i>Lab</i>  |              |
|---|---------------|---------------------|-------------|--------------|
| <i>Test (condition)</i>   | <i>Result</i> | <i>Date of Test</i> | <i>Ref.</i> | <i>Setup</i> |
| <b>24.4 Field strength of spurious radiation §2.1053, §24.238</b>                 |               |                     |             |              |
| 24.4; Frequency Band = 1900, Mode = EDGE, Channel = 512, Frequency = 1850.2MHz    | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz    | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = 1900, Mode = EDGE, Channel = 810, Frequency = 1909.8MHz    | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = 1900, Mode = GSM, Channel = 512, Frequency = 1850.2MHz     | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz     | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = 1900, Mode = GSM, Channel = 810, Frequency = 1909.8MHz     | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = HSDPA, Channel = 9262, Frequency = 1852.4MHz  | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = HSDPA, Channel = 9400, Frequency = 1880MHz    | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = HSDPA, Channel = 9538, Frequency = 1907.6MHz  | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = HSUPA, Channel = 9262, Frequency = 1852.4MHz  | Passed        | 2011/08/15          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = HSUPA, Channel = 9400, Frequency = 1880MHz    | Passed        | 2011/08/15          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = HSUPA, Channel = 9538, Frequency = 1907.6MHz  | Passed        | 2011/08/15          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9262, Frequency = 1852.4MHz | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz   | Passed        | 2011/08/16          | Lab 1       | B01_rad      |
| 24.4; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9538, Frequency = 1907.6MHz | Passed        | 2011/08/16          | Lab 1       | B01_rad      |



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| <i>Test Case Identifier / Name</i>  | <i>Test (condition)</i> | <i>Result</i> | <i>Date of Test</i> | <i>Lab</i> | <i>Ref.</i> | <i>Setup</i> |
|---|-------------------------|---------------|---------------------|------------|-------------|--------------|
| <b>24.5 Emission and Occupied Bandwidth §2.1049, §24.238</b>                      |                         |               |                     |            |             |              |
| 24.5; Frequency Band = 1900, Mode = EDGE, Channel = 512, Frequency = 1850.2MHz    | Passed                  | 2011/08/19    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz    | Passed                  | 2011/08/19    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = 1900, Mode = EDGE, Channel = 810, Frequency = 1909.8MHz    | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = 1900, Mode = GSM, Channel = 512, Frequency = 1850.2MHz     | Passed                  | 2011/08/19    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz     | Passed                  | 2011/08/19    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = 1900, Mode = GSM, Channel = 810, Frequency = 1909.8MHz     | Passed                  | 2011/08/19    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = HSDPA, Channel = 9262, Frequency = 1852.4MHz  | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = HSDPA, Channel = 9400, Frequency = 1880MHz    | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = HSDPA, Channel = 9538, Frequency = 1907.6MHz  | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = HSUPA, Channel = 9262, Frequency = 1852.4MHz  | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = HSUPA, Channel = 9400, Frequency = 1880MHz    | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = HSUPA, Channel = 9538, Frequency = 1907.6MHz  | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9262, Frequency = 1852.4MHz | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz   | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |
| 24.5; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9538, Frequency = 1907.6MHz | Passed                  | 2011/08/20    | Lab 2               | B01_direct |             |              |



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Reference: MDE\_CINTE\_1107\_FCCc

| <i>Test Case Identifier / Name</i>  |               |                     | acc. Title 47 CFR chapter I part 24 subpart E |             |              |
|---|---------------|---------------------|---|-------------|--------------|
| <i>Test (condition)</i>   | <i>Result</i> | <i>Date of Test</i> | <i>Lab</i>                                    | <i>Ref.</i> | <i>Setup</i> |
| <b>24.6 Band edge compliance §2.1053, §24.238</b>                                 |               |                     |   |             |              |
| 24.6; Frequency Band = 1900, Mode = EDGE, Channel = 512, Frequency = 1850.2MHz    | Passed        | 2011/08/19          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = 1900, Mode = EDGE, Channel = 810, Frequency = 1909.8MHz    | Passed        | 2011/08/20          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = 1900, Mode = GSM, Channel = 512, Frequency = 1850.2MHz     | Passed        | 2011/08/19          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = 1900, Mode = GSM, Channel = 810, Frequency = 1909.8MHz     | Passed        | 2011/08/19          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = FDD2, Mode = HSDPA, Channel = 9262, Frequency = 1852.4MHz  | Passed        | 2011/08/20          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = FDD2, Mode = HSDPA, Channel = 9538, Frequency = 1907.6MHz  | Passed        | 2011/08/20          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = FDD2, Mode = HSUPA, Channel = 9262, Frequency = 1852.4MHz  | Passed        | 2011/08/20          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = FDD2, Mode = HSUPA, Channel = 9538, Frequency = 1907.6MHz  | Passed        | 2011/08/20          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9262, Frequency = 1852.4MHz | Passed        | 2011/08/20          | Lab 2   | B01_direct  |              |
| 24.6; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9538, Frequency = 1907.6MHz | Passed        | 2011/08/20          | Lab 2   | B01_direct  |              |



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

### 3.5 Detailed Results

#### 3.5.1 24.1 RF Power Output §2.1046, §24.232

**Test: 24.1; Frequency Band = 1900, Mode = EDGE, Channel = 512, Frequency = 1850.2MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:41

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

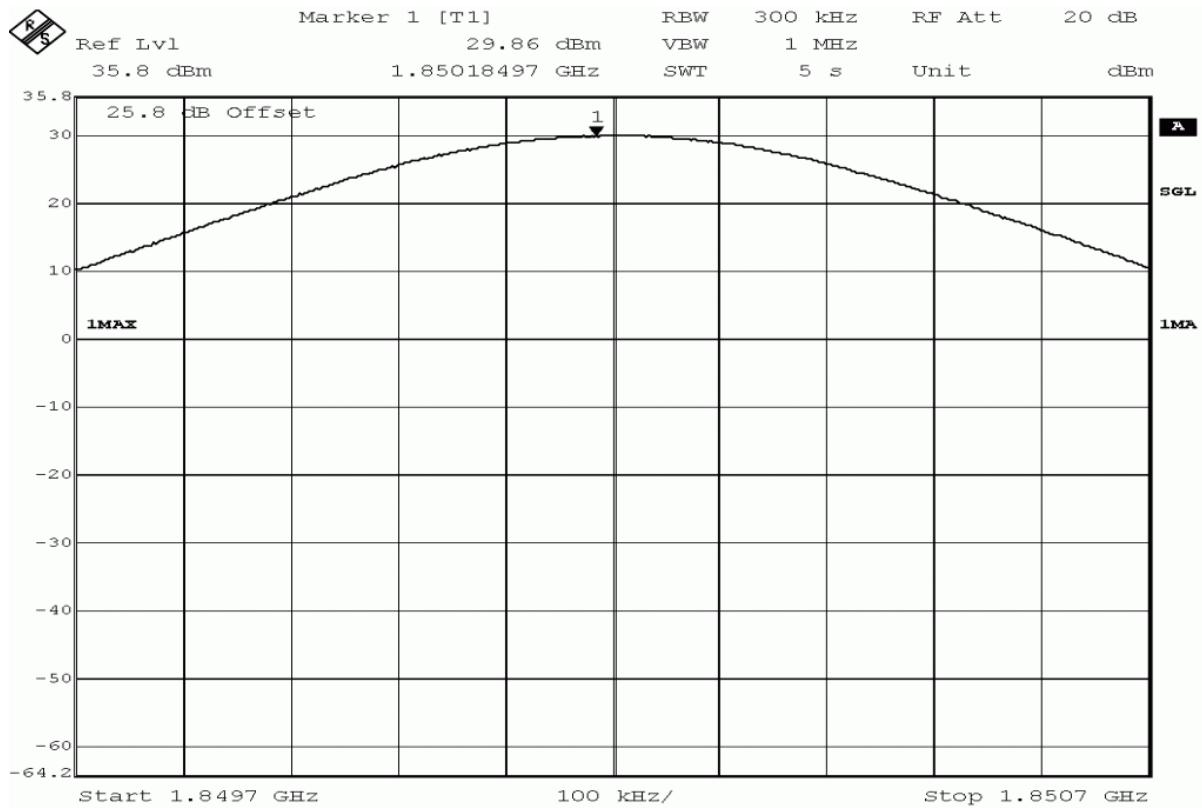
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, EDGE1900, output power,  
channel 512 (1850.2MHz)  
Date: 19.AUG.2011 19:42:52



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 300                       | 29.86                     | passed  |
| average  | maxhold | 300                       | 26.24                     | passed  |
| rms      | maxhold | 300                       | 26.82                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

3.14 dBi

**Test: 24.1; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz, Method = conducted**

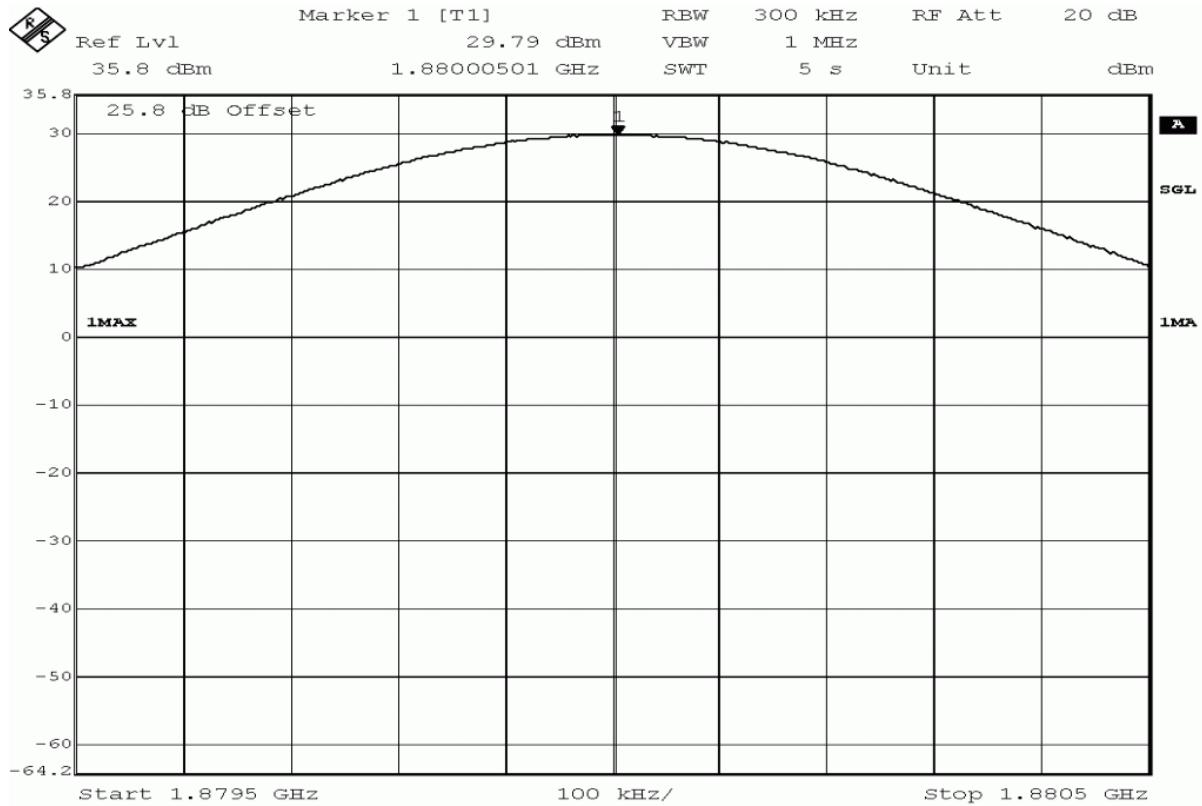
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:34

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, EDGE1900, output power,  
 channel 661 (1880.0MHz)  
 Date: 19.AUG.2011 19:36:25



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 300                       | 29.79                     | passed  |
| average  | maxhold | 300                       | 25.96                     | passed  |
| rms      | maxhold | 300                       | 26.64                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

3.21 dBi

**Test: 24.1; Frequency Band = 1900, Mode = EDGE, Channel = 810, Frequency = 1909.8MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:55

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

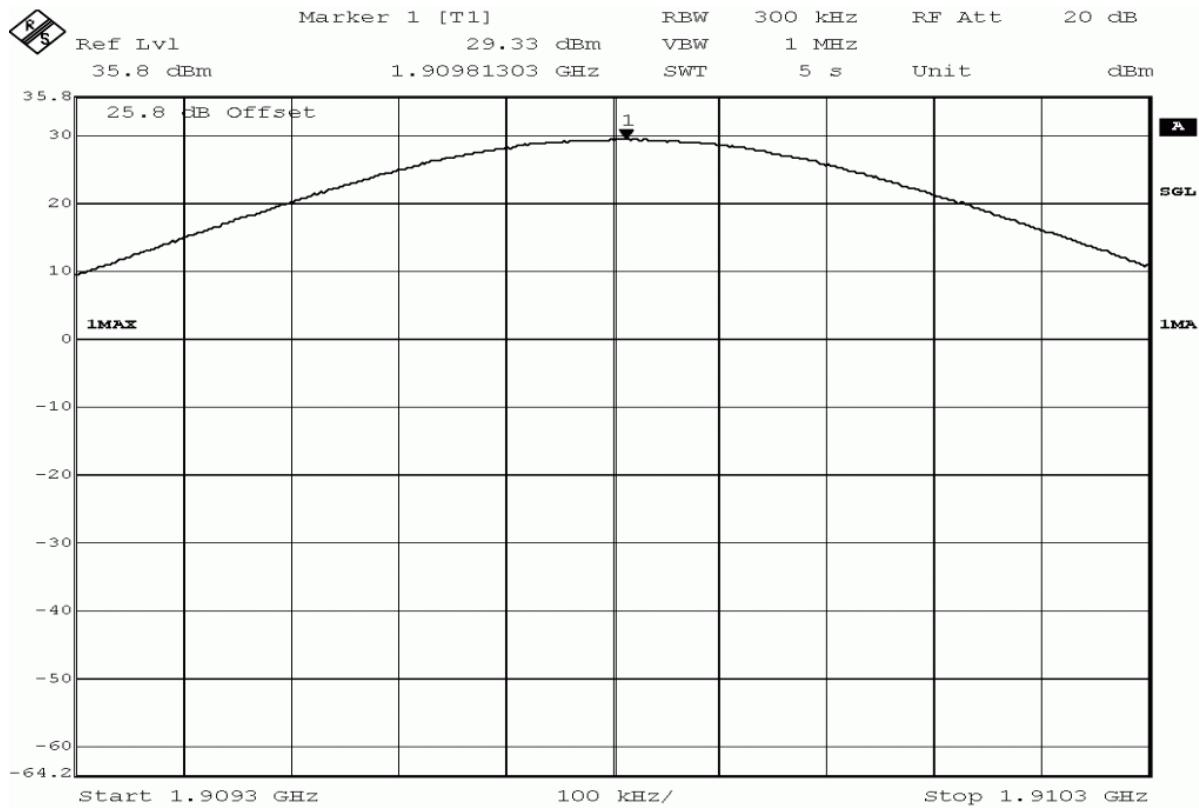
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, EDGE1900, output power,  
channel 810 (1909.8MHz)  
Date: 20.AUG.2011 01:56:36



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 300                       | 29.33                     | passed  |
| average  | maxhold | 300                       | 25.72                     | passed  |
| rms      | maxhold | 300                       | 26.30                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

3.67 dBi

**Test: 24.1; Frequency Band = 1900, Mode = GSM, Channel = 512, Frequency = 1850.2MHz, Method = conducted**

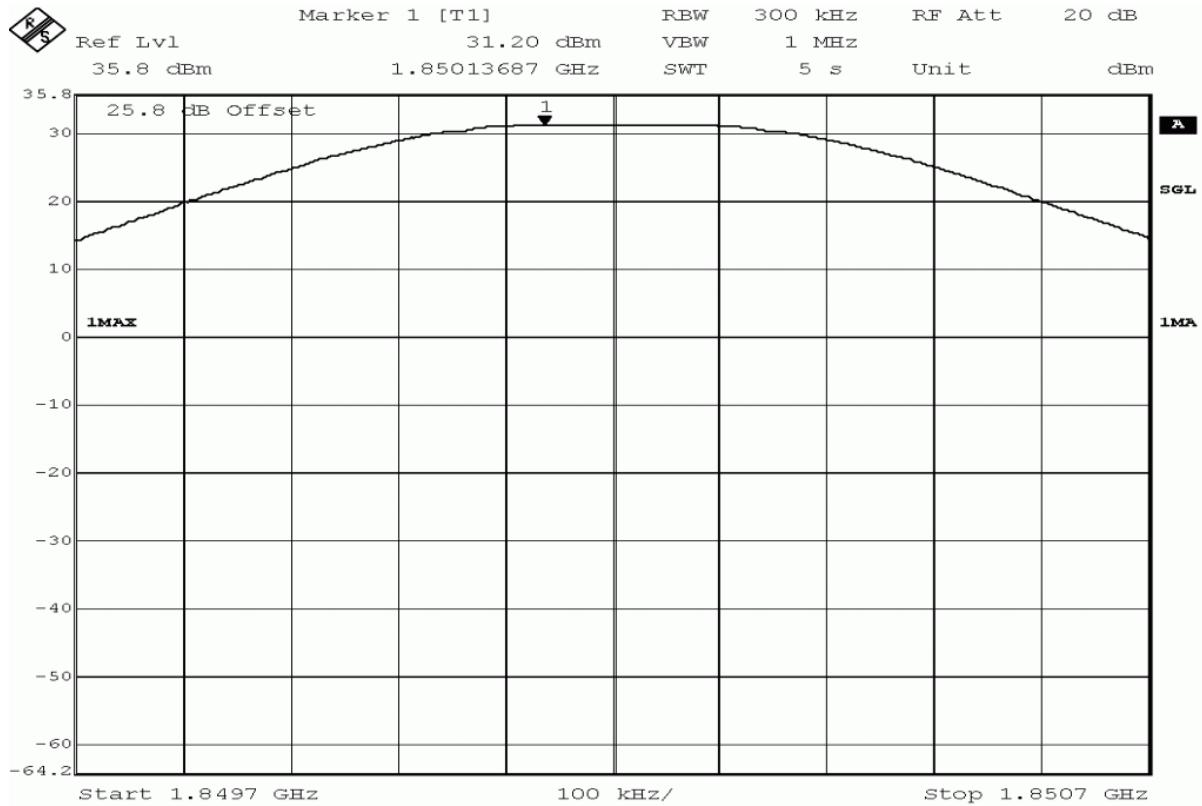
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:19

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, GSM1900, output power,  
 channel 512 (1850.2MHz)  
 Date: 19.AUG.2011 19:21:05



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 300                       | 31.20                     | passed  |
| average  | maxhold | 300                       | 30.85                     | passed  |
| rms      | maxhold | 300                       | 30.96                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

1.80 dBi

**Test: 24.1; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz, Method = conducted**

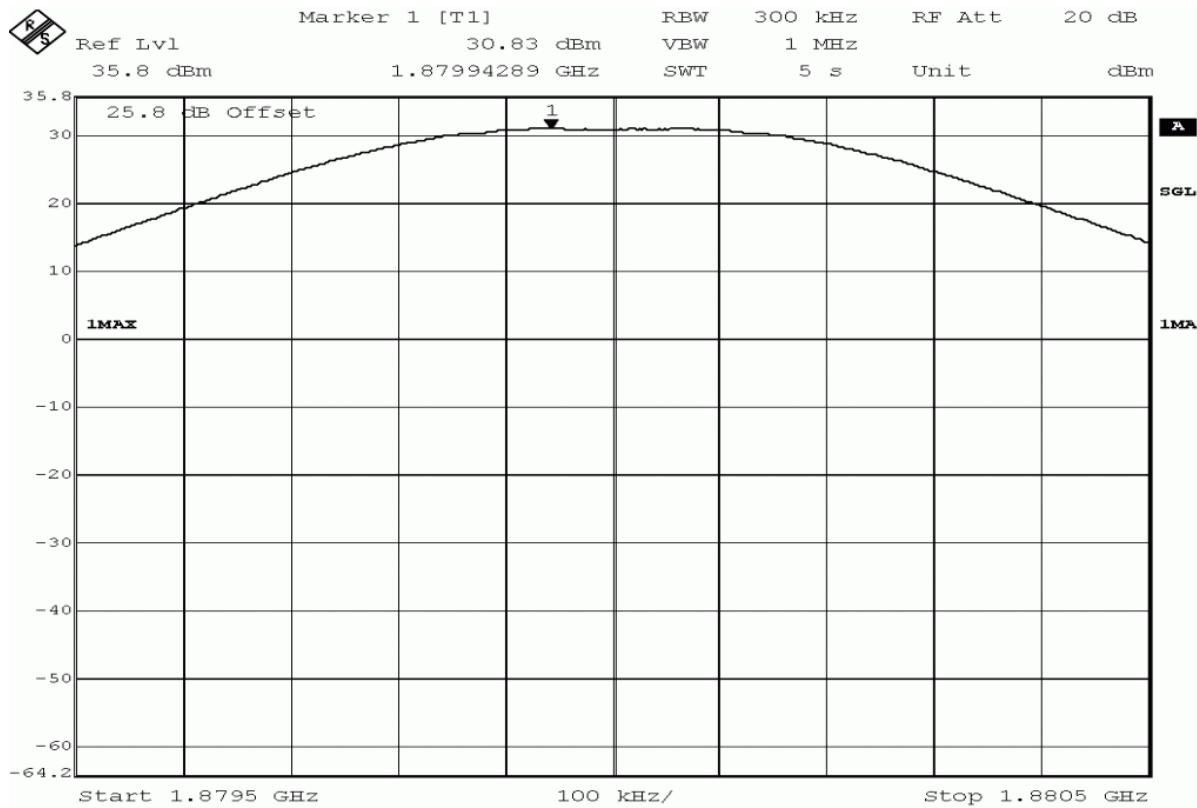
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:09

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, GSM1900, output power,  
 channel 661 (1880.0MHz)  
 Date: 19.AUG.2011 19:11:23



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 300                       | 30.83                     | passed  |
| average  | maxhold | 300                       | 30.51                     | passed  |
| rms      | maxhold | 300                       | 30.59                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

2.17 dBi

**Test: 24.1; Frequency Band = 1900, Mode = GSM, Channel = 810, Frequency = 1909.8MHz, Method = conducted**

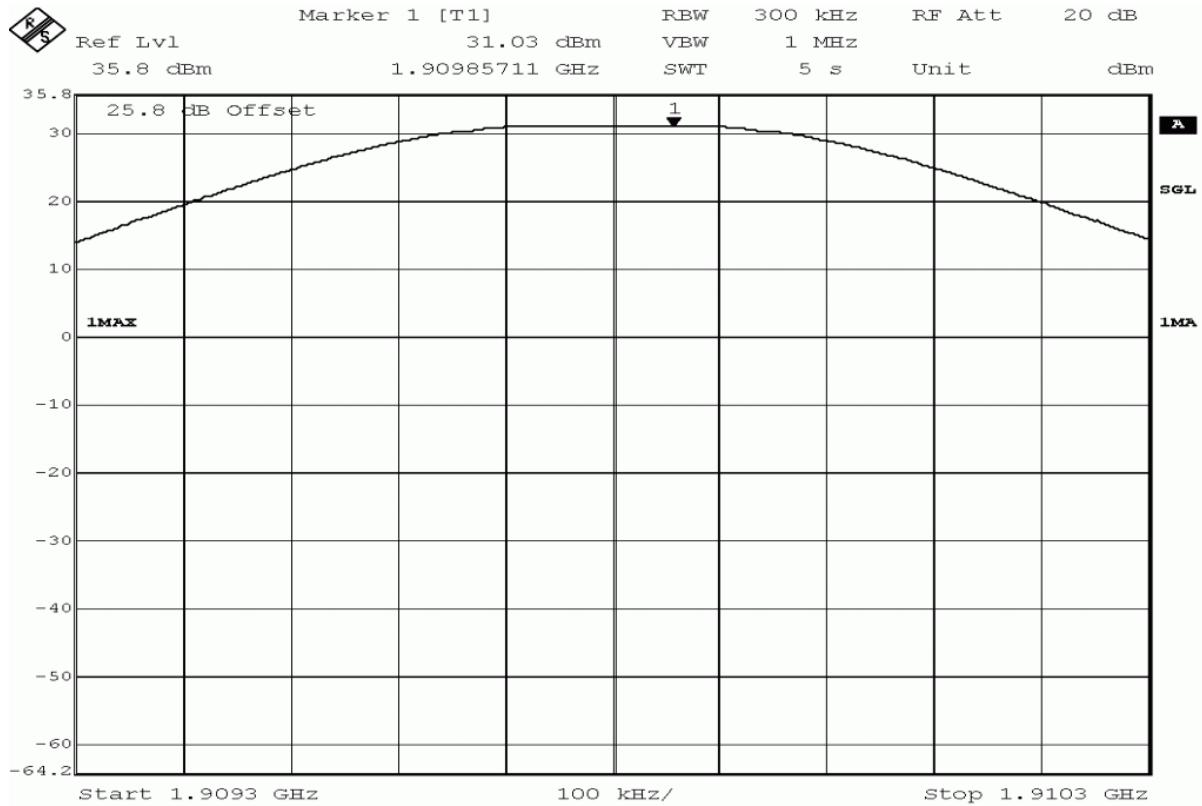
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:26

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, GSM1900, output power,  
 channel 810 (1909.8MHz)  
 Date: 19.AUG.2011 19:28:24



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 300                       | 31.03                     | passed  |
| average  | maxhold | 300                       | 30.66                     | passed  |
| rms      | maxhold | 300                       | 30.77                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

1.97 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_1, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

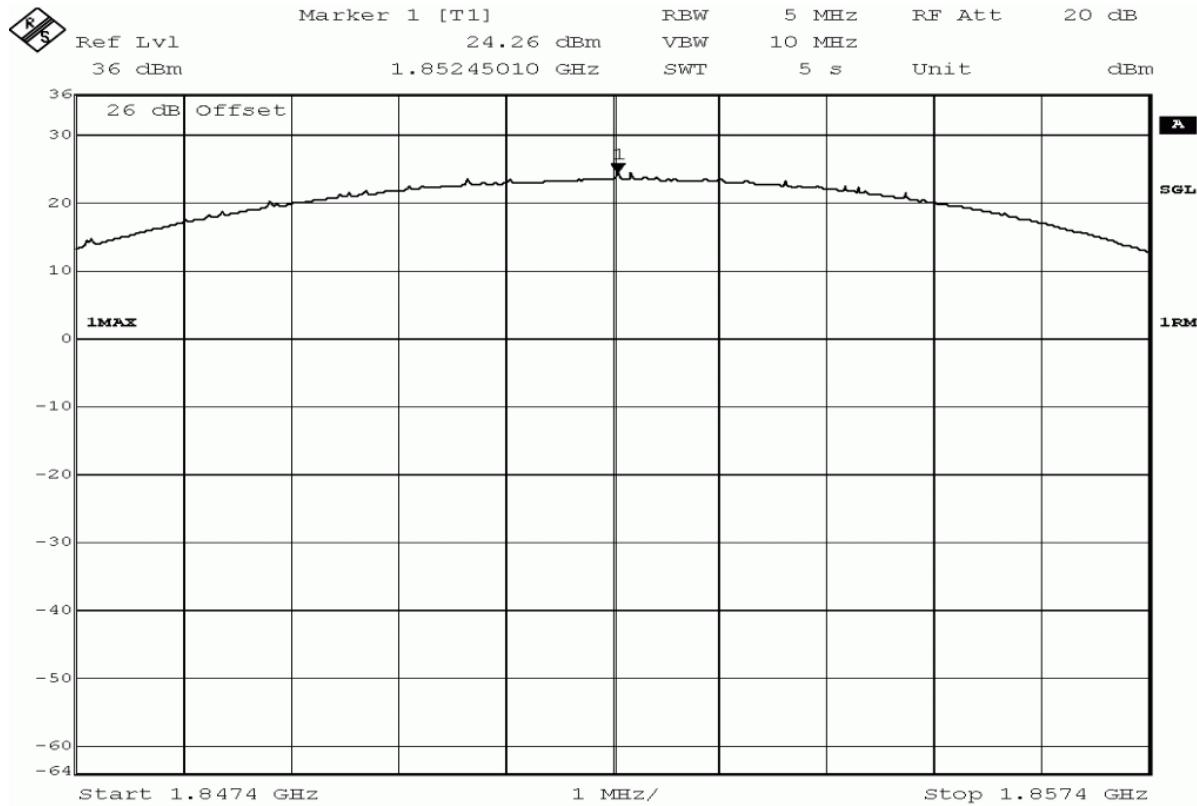
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:03

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 1 HSDPA FDD II, output power,  
 channel 9262 (1852.4MHz)  
 Date: 20.AUG.2011 01:05:18



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 29.60                     | passed  |
| average  | maxhold | 5000                      | 23.51                     | passed  |
| rms      | maxhold | 5000                      | 24.26                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

3.40 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_1, Channel = 9400, Frequency = 1880MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 0:50

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

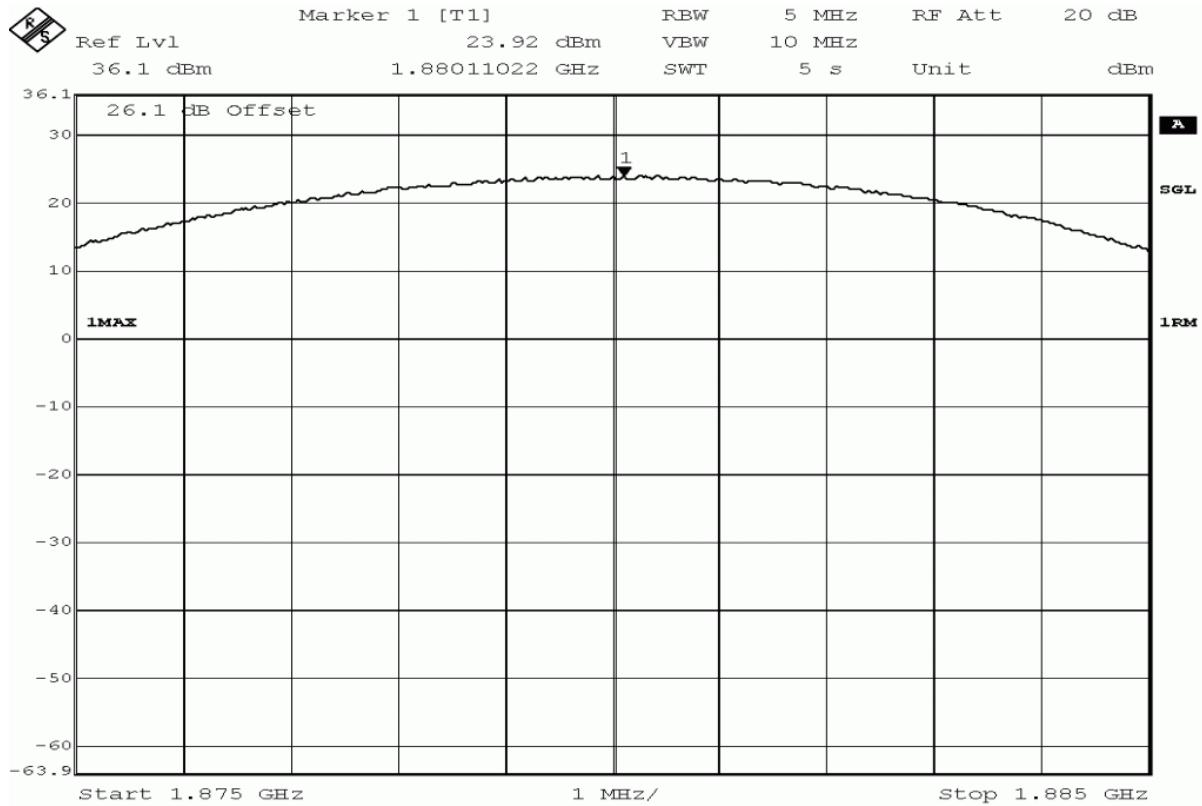
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement

Comment A: CZ600, subtest 1 HSDPA FDD II, output power,  
channel 9400 (1880.0MHz)

Date: 20.AUG.2011 00:52:48



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 29.44                     | passed  |
| average  | maxhold | 5000                      | 23.51                     | passed  |
| rms      | maxhold | 5000                      | 23.92                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

3.56 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_1, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:13

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

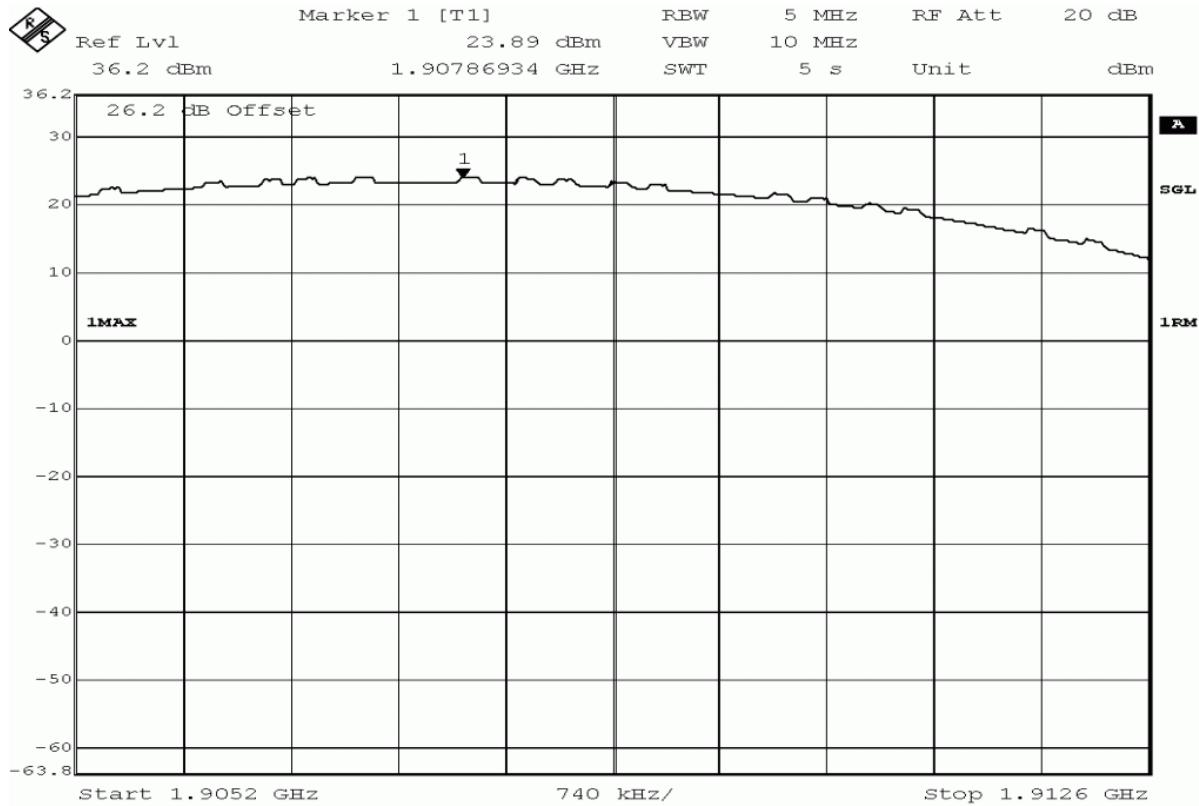
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement

Comment A: CZ600, subtest 1 HSDPA FDD II, output power,  
channel 9538 (1907.6MHz)

Date: 20.AUG.2011 01:15:49



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 29.41                     | passed  |
| average  | maxhold | 5000                      | 23.66                     | passed  |
| rms      | maxhold | 5000                      | 23.89                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

3.59 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_2, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

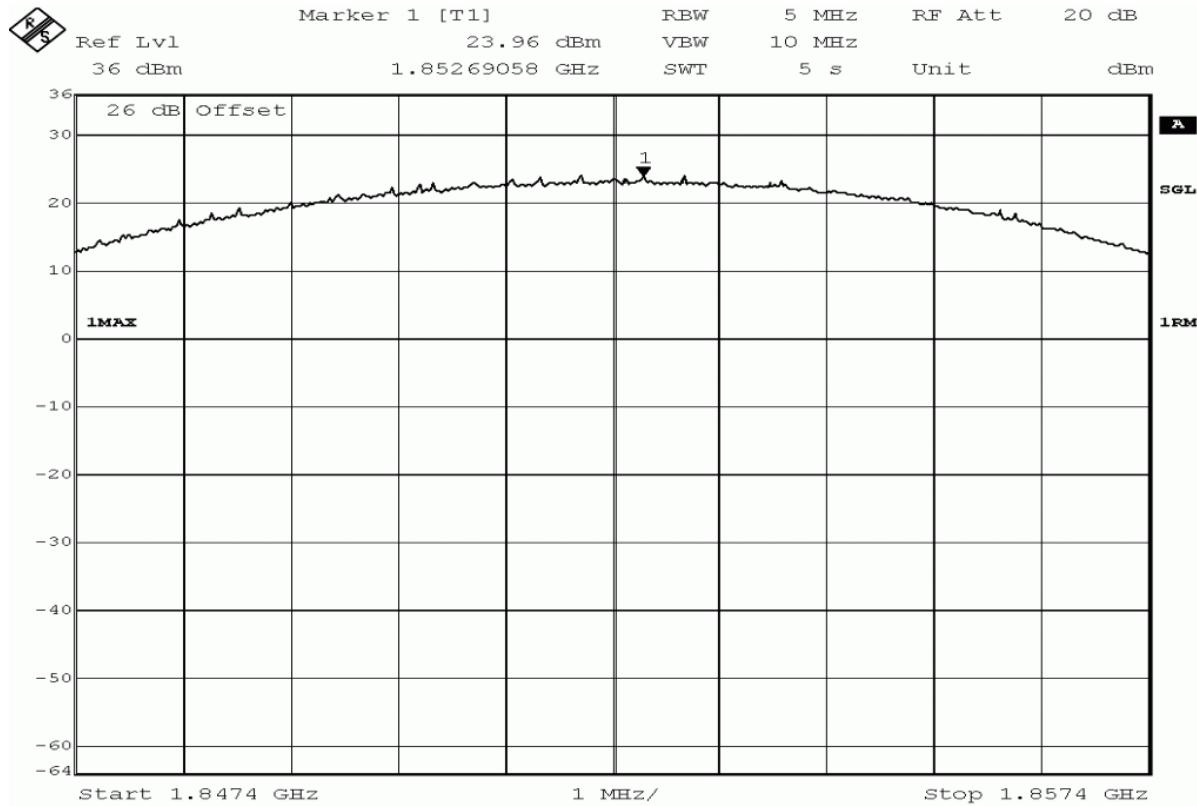
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:21

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 2 HSDPA FDD II, output power,  
 channel 9262 (1852.4MHz)  
 Date: 20.AUG.2011 01:23:47



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.50                     | passed  |
| average  | maxhold | 5000                      | 23.22                     | passed  |
| rms      | maxhold | 5000                      | 23.96                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

2.50 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_2, Channel = 9400, Frequency = 1880MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:19

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

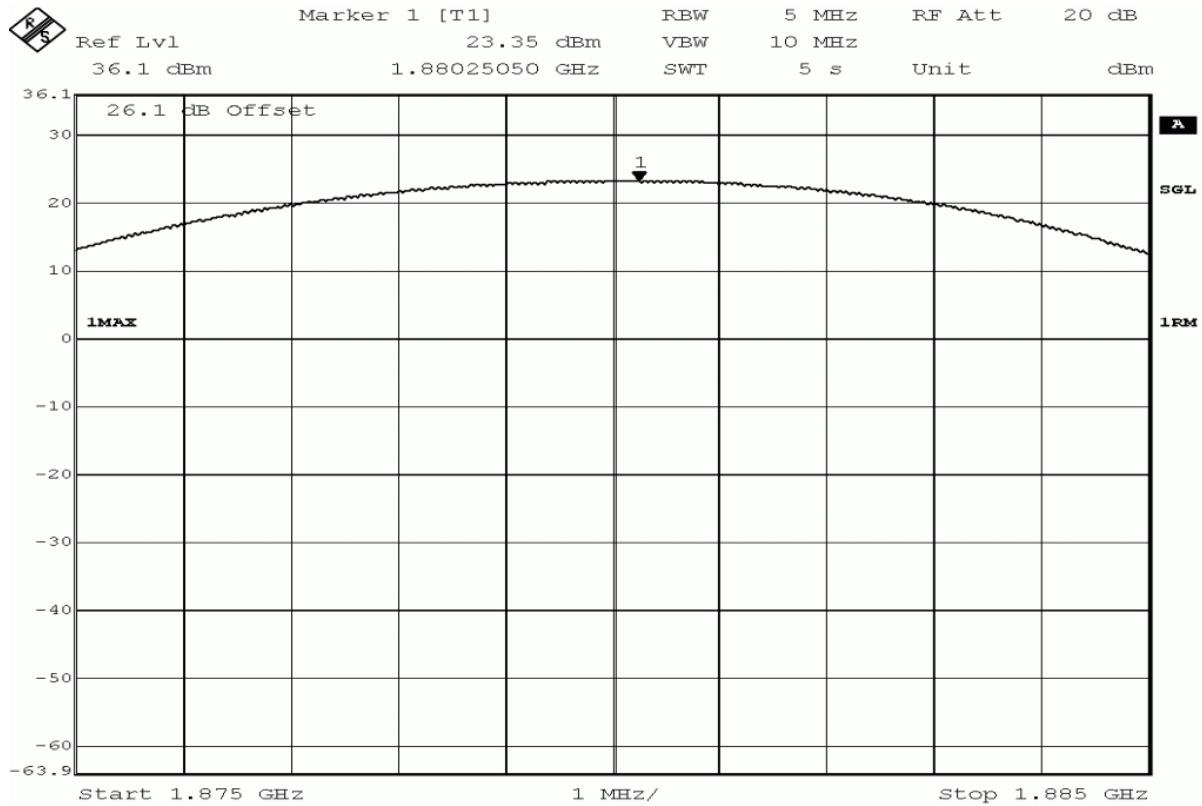
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement

Comment A: CZ600, subtest 2 HSDPA FDD II, output power,  
channel 9400 (1880.0MHz)

Date: 20.AUG.2011 01:21:48



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.43                     | passed  |
| average  | maxhold | 5000                      | 22.71                     | passed  |
| rms      | maxhold | 5000                      | 23.35                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.29 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_2, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:20

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

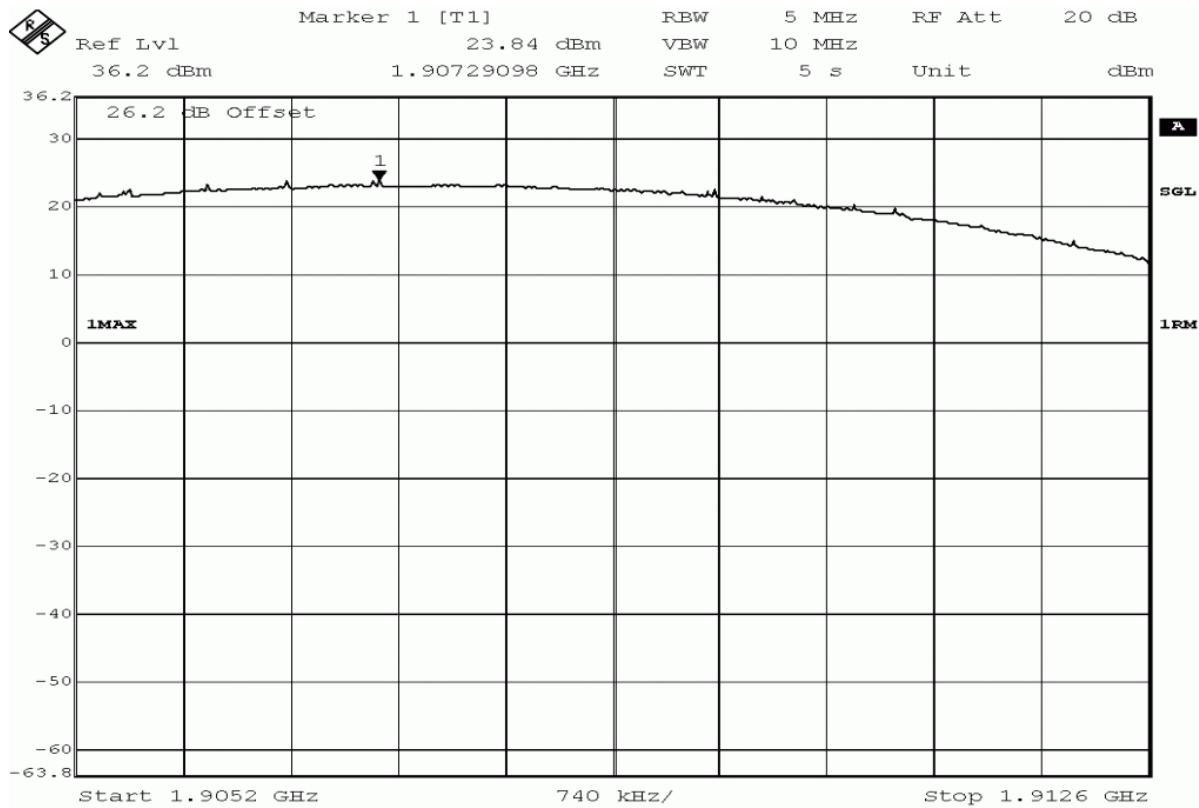
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 2 HSDPA FDD II, output power,  
channel 9538 (1907.6MHz)  
Date: 20.AUG.2011 01:22:48



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.53                     | passed  |
| average  | maxhold | 5000                      | 22.87                     | passed  |
| rms      | maxhold | 5000                      | 23.84                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.13 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_3, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

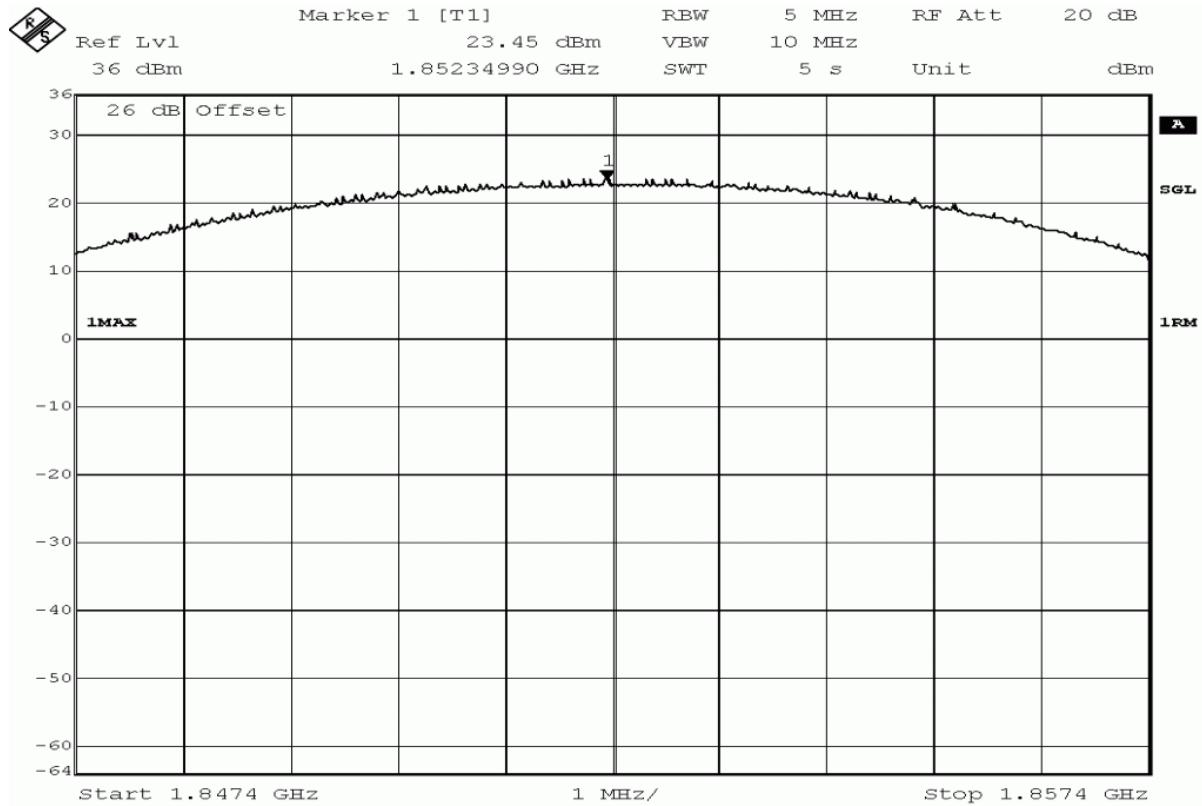
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:24

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 3 HSDPA FDD II, output power,  
 channel 9262 (1852.4MHz)  
 Date: 20.AUG.2011 01:26:16



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 31.40                     | passed  |
| average  | maxhold | 5000                      | 22.23                     | passed  |
| rms      | maxhold | 5000                      | 23.45                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

1.60 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_3, Channel = 9400, Frequency = 1880MHz, Method = conducted**

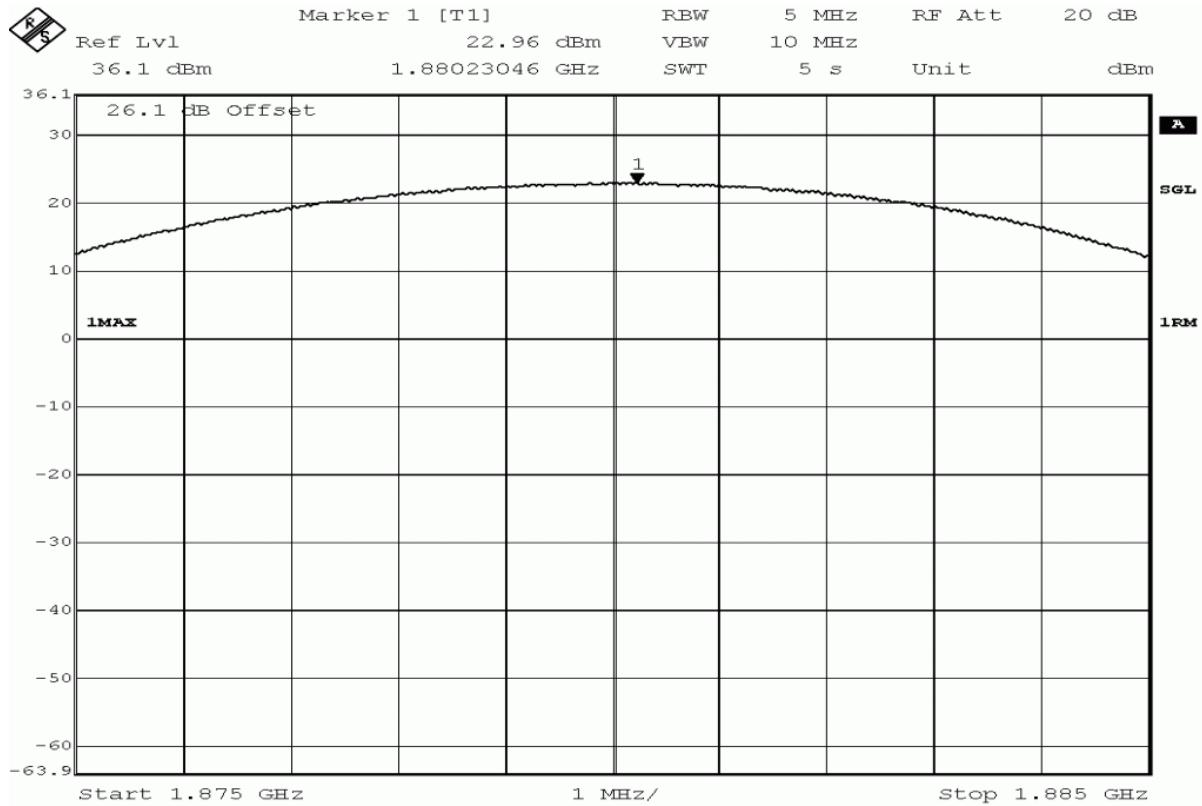
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:23

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 3 HSDPA FDD II, output power,  
 channel 9400 (1880.0MHz)  
 Date: 20.AUG.2011 01:25:20



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.85                     | passed  |
| average  | maxhold | 5000                      | 21.92                     | passed  |
| rms      | maxhold | 5000                      | 22.96                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.04 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_3, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:25

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

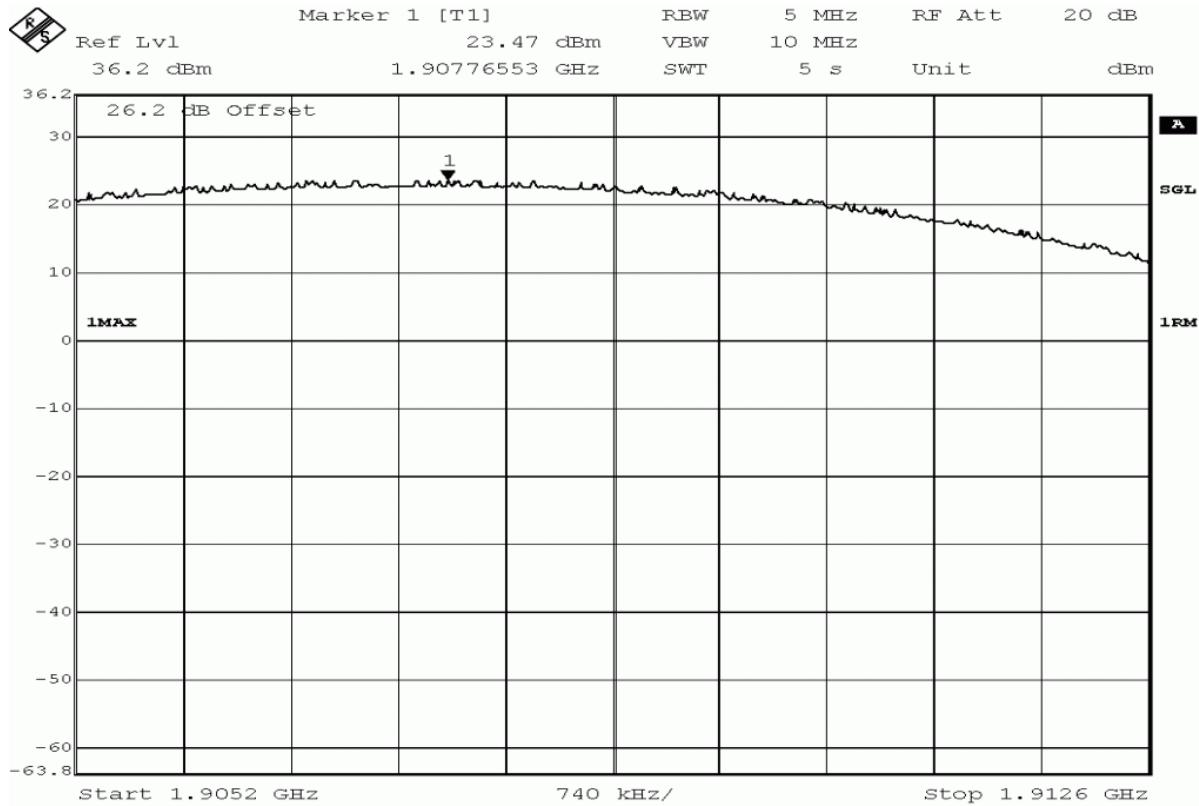
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 3 HSDPA FDD II, output power,  
channel 9538 (1907.6MHz)  
Date: 20.AUG.2011 01:27:12



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.70                     | passed  |
| average  | maxhold | 5000                      | 22.40                     | passed  |
| rms      | maxhold | 5000                      | 23.47                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.60 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_4, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:27

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

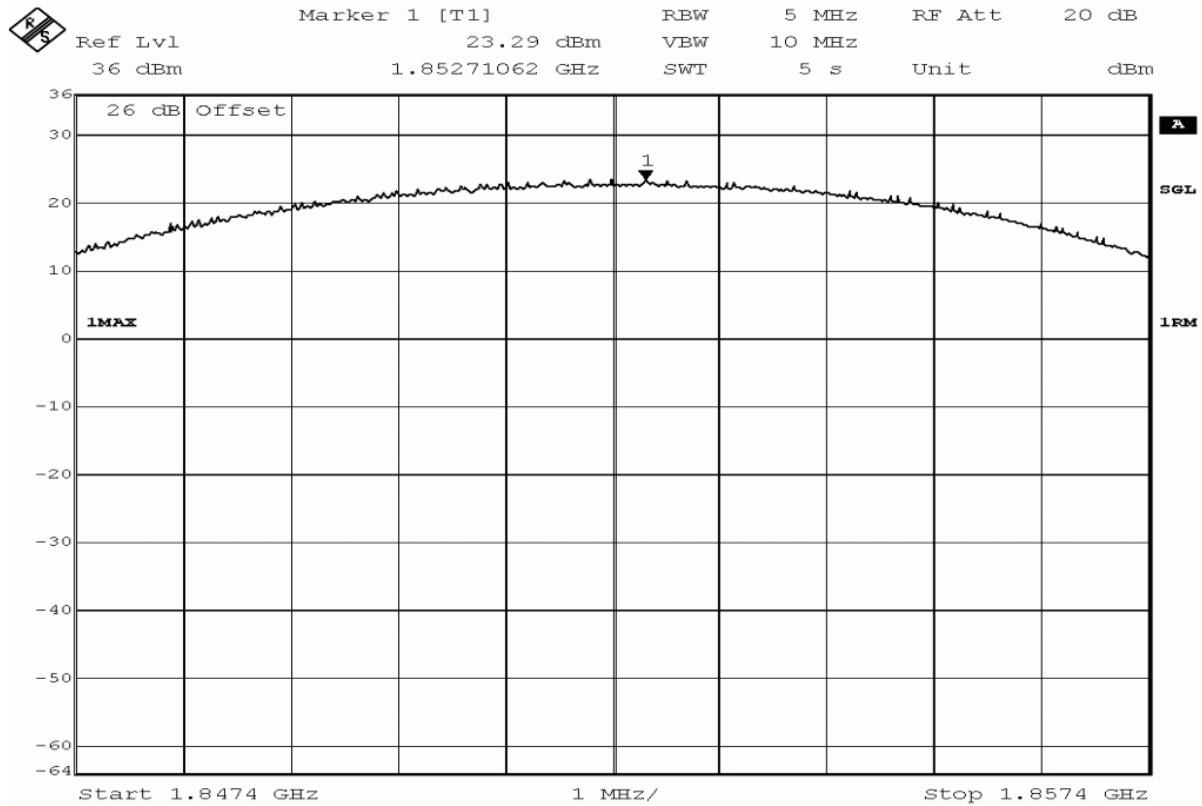
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 4 HSDPA FDD II, output power,  
channel 9262 (1852.4MHz)  
Date: 20.AUG.2011 01:29:41



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.90                     | passed  |
| average  | maxhold | 5000                      | 22.02                     | passed  |
| rms      | maxhold | 5000                      | 23.29                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.98 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_4, Channel = 9400, Frequency = 1880MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:26

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

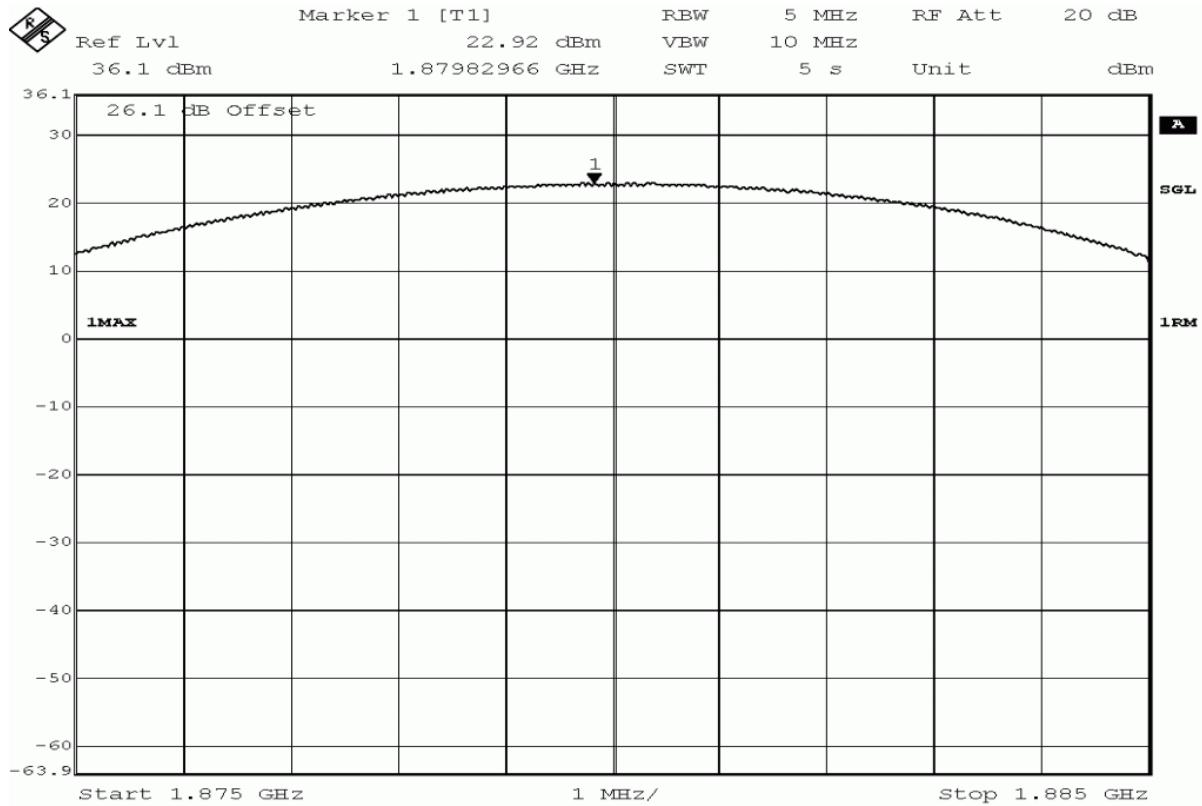
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 4 HSDPA FDD II, output power,  
channel 9400 (1880.0MHz)  
Date: 20.AUG.2011 01:28:45



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.60                     | passed  |
| average  | maxhold | 5000                      | 21.84                     | passed  |
| rms      | maxhold | 5000                      | 22.92                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.08 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSDPA\_subtest\_4, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

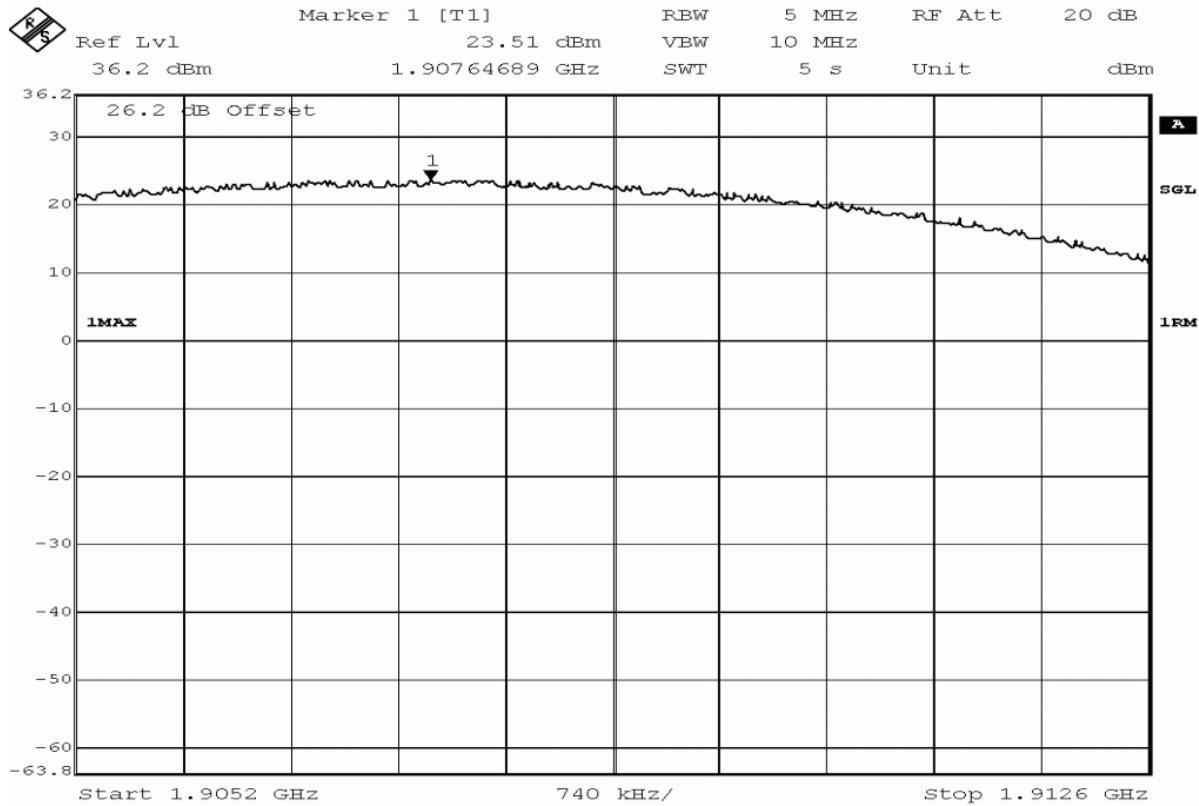
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:28

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 4 HSDPA FDD II, output power,  
 channel 9538 (1907.6MHz)  
 Date: 20.AUG.2011 01:30:38



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 31.23                     | passed  |
| average  | maxhold | 5000                      | 22.39                     | passed  |
| rms      | maxhold | 5000                      | 23.51                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

1.77 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_1, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

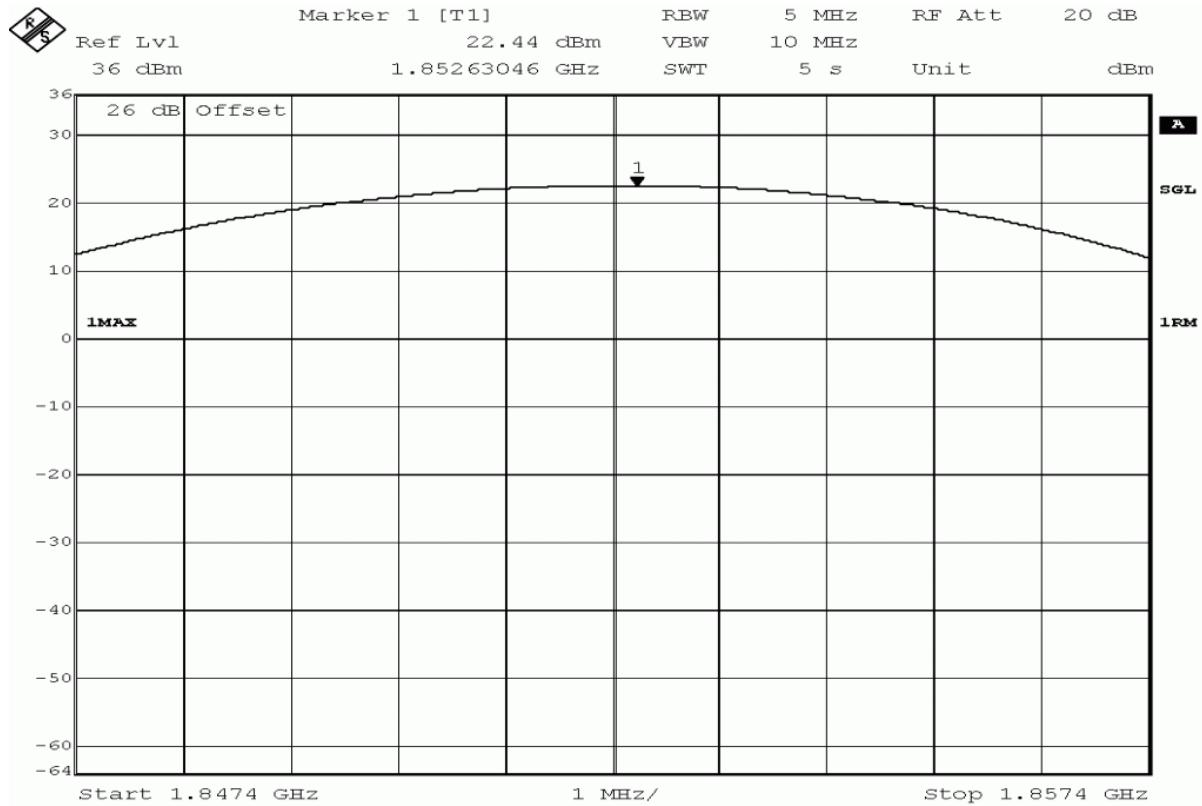
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:14

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 1 HSUPA FDD II, output power,  
 channel 9262 (1852.4MHz)  
 Date: 20.AUG.2011 02:16:07



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 29.87                     | passed  |
| average  | maxhold | 5000                      | 22.01                     | passed  |
| rms      | maxhold | 5000                      | 22.44                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.56 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_1, Channel = 9400, Frequency = 1880MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:08

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

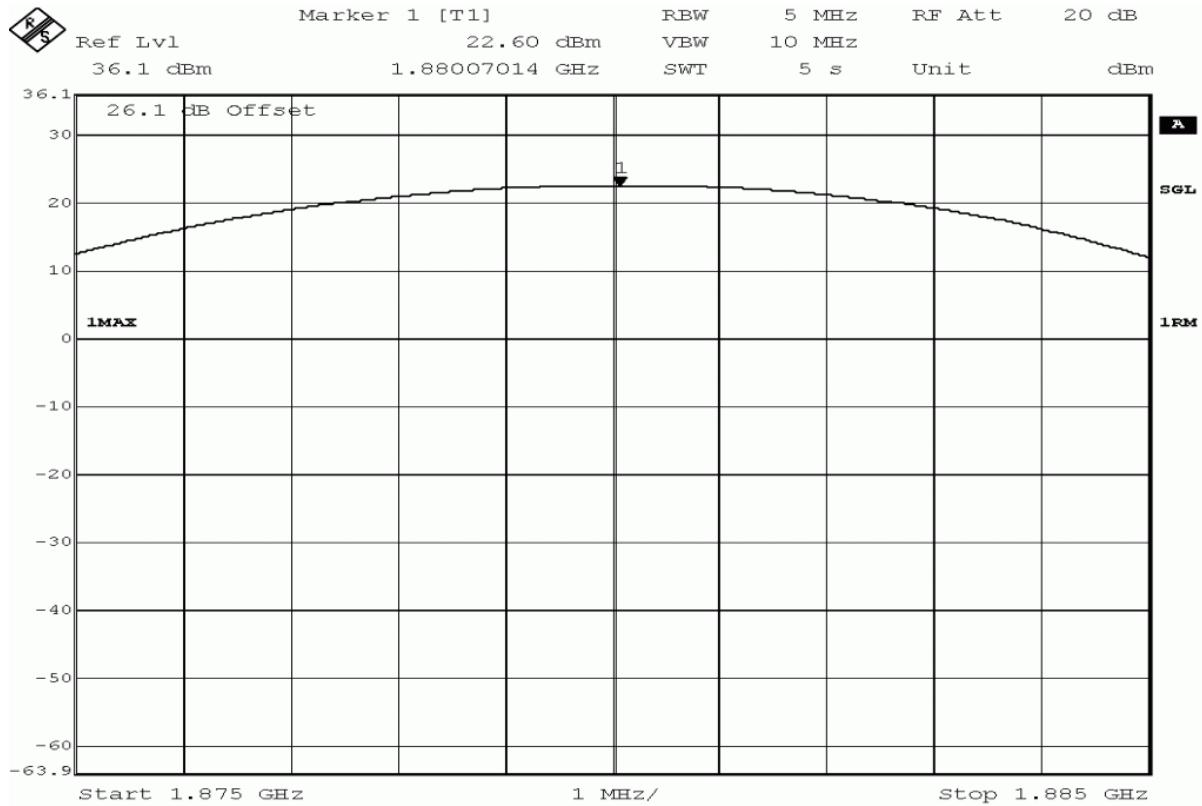
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 1 HSUPA FDD II, output power,  
channel 9400 (1880.0MHz)  
Date: 20.AUG.2011 02:10:43



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.10                     | passed  |
| average  | maxhold | 5000                      | 22.26                     | passed  |
| rms      | maxhold | 5000                      | 22.60                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.40 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_1, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:20

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

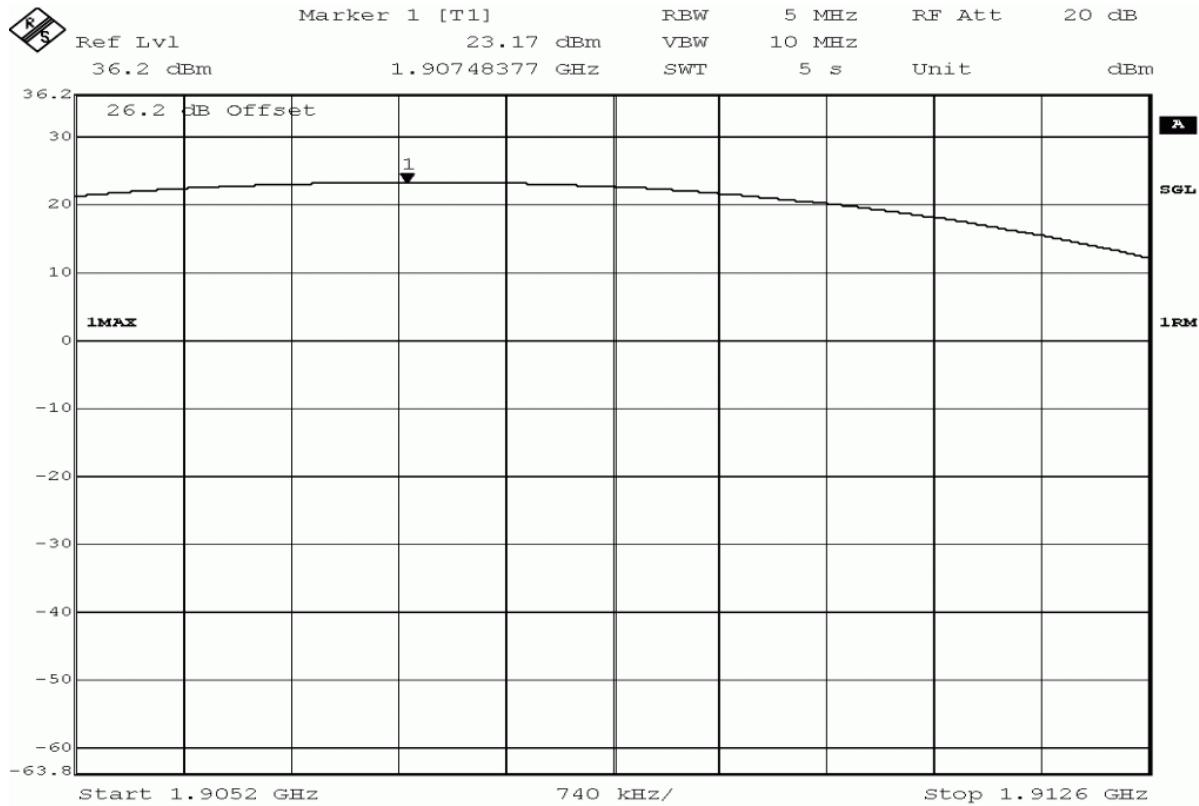
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**





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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.33                     | passed  |
| average  | maxhold | 5000                      | 22.68                     | passed  |
| rms      | maxhold | 5000                      | 23.17                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.32 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_2, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

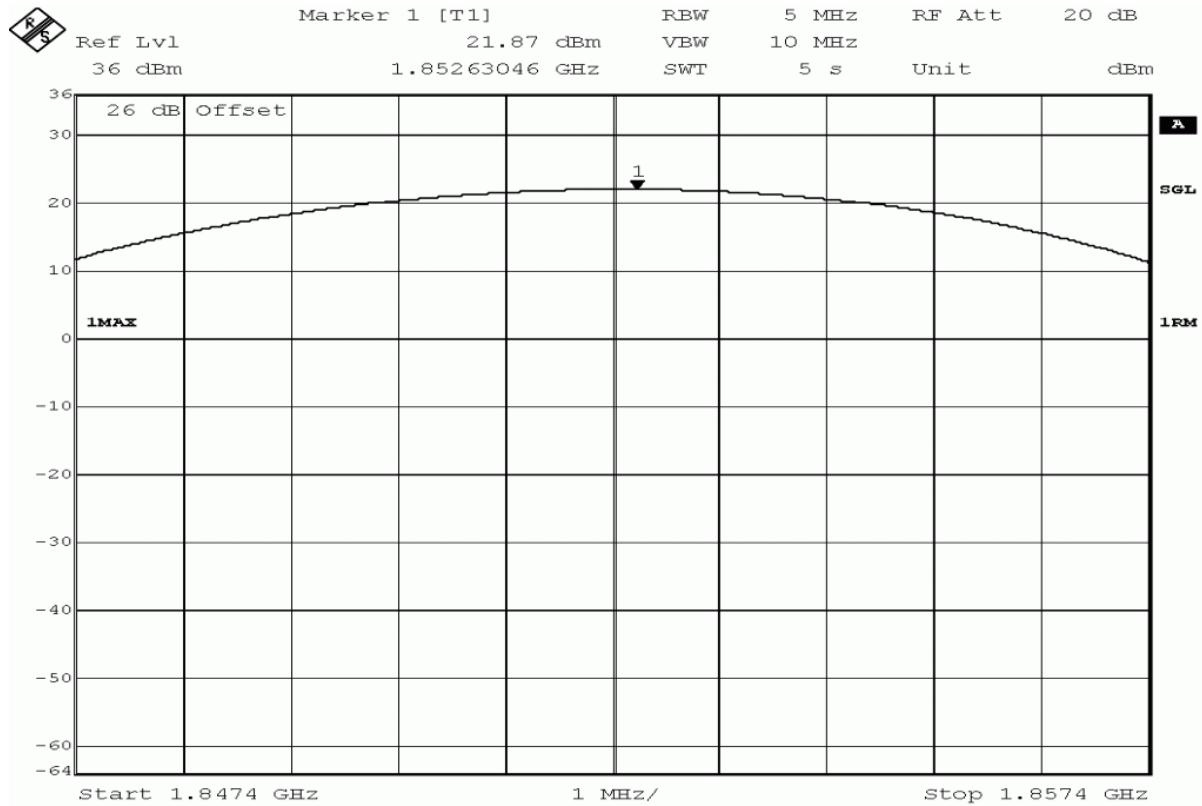
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:32

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 2 HSUPA FDD II, output power,  
 channel 9262 (1852.4MHz)  
 Date: 20.AUG.2011 02:34:22



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.75                     | passed  |
| average  | maxhold | 5000                      | 20.97                     | passed  |
| rms      | maxhold | 5000                      | 21.87                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.13 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_2, Channel = 9400, Frequency = 1880MHz, Method = conducted**

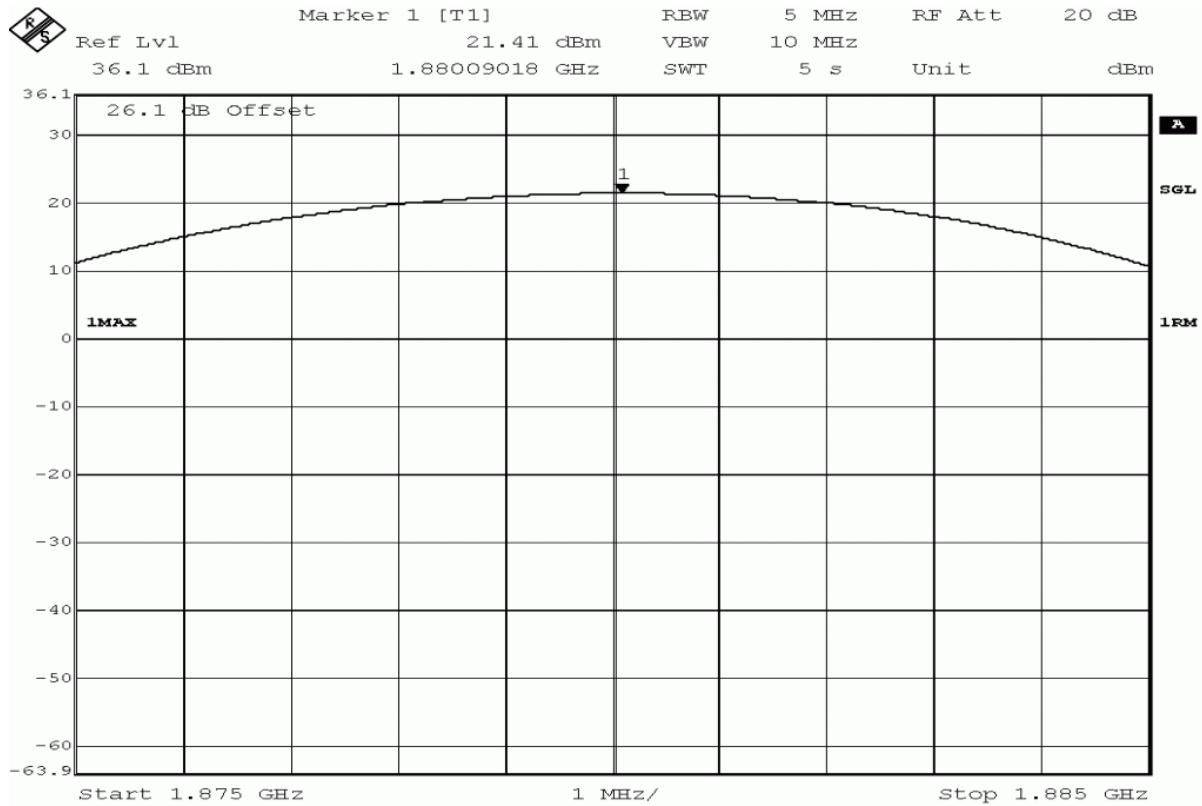
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:31

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 2 HSUPA FDD II, output power,  
 channel 9400 (1880.0MHz)  
 Date: 20.AUG.2011 02:33:07



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 29.70                     | passed  |
| average  | maxhold | 5000                      | 20.50                     | passed  |
| rms      | maxhold | 5000                      | 21.41                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.59 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_2, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

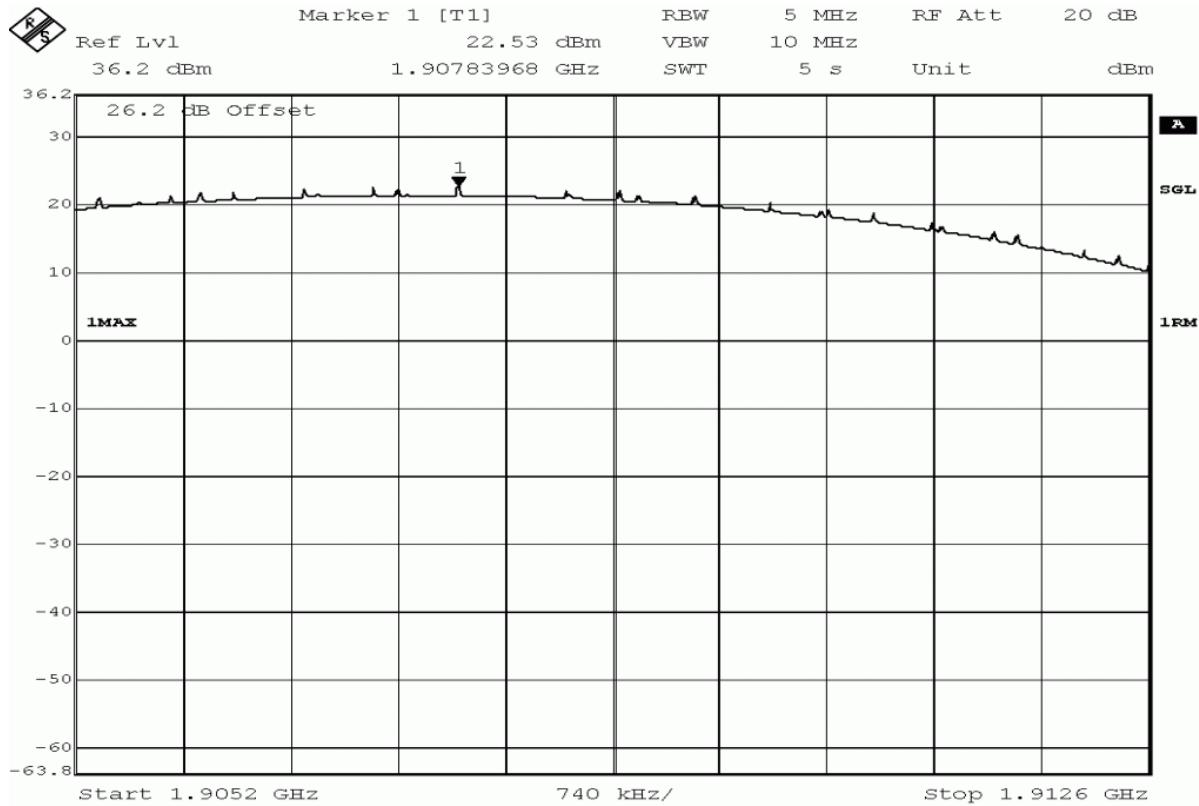
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:34

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 2 HSUPA FDD II, output power,  
 channel 9538 (1907.6MHz)  
 Date: 20.AUG.2011 02:36:37



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.33                     | passed  |
| average  | maxhold | 5000                      | 21.36                     | passed  |
| rms      | maxhold | 5000                      | 22.53                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.47 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_3, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

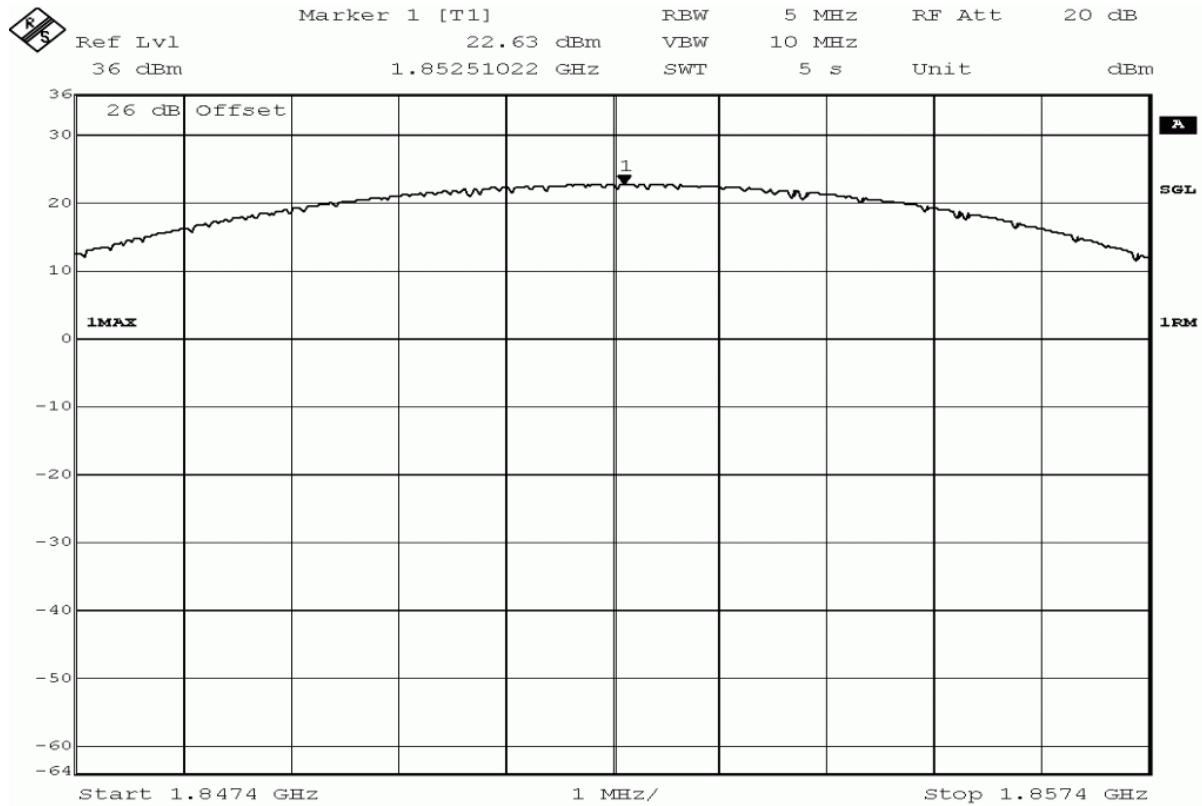
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:38

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 3 HSUPA FDD II, output power,  
 channel 9262 (1852.4MHz)  
 Date: 20.AUG.2011 02:40:16



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 31.17                     | passed  |
| average  | maxhold | 5000                      | 21.67                     | passed  |
| rms      | maxhold | 5000                      | 22.63                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

1.83 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_3, Channel = 9400, Frequency = 1880MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:37

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

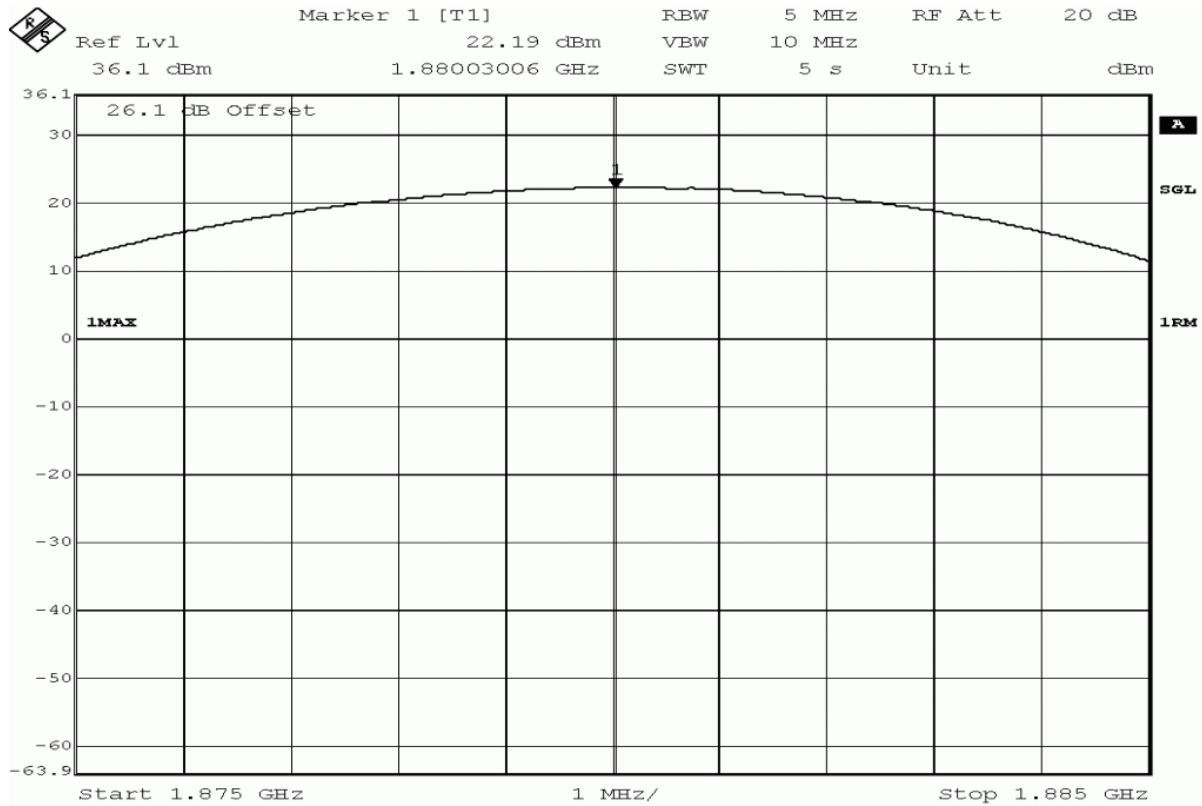
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 3 HSUPA FDD II, output power,  
channel 9400 (1880.0MHz)  
Date: 20.AUG.2011 02:39:08



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.60                     | passed  |
| average  | maxhold | 5000                      | 21.29                     | passed  |
| rms      | maxhold | 5000                      | 22.19                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.81 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_3, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:39

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

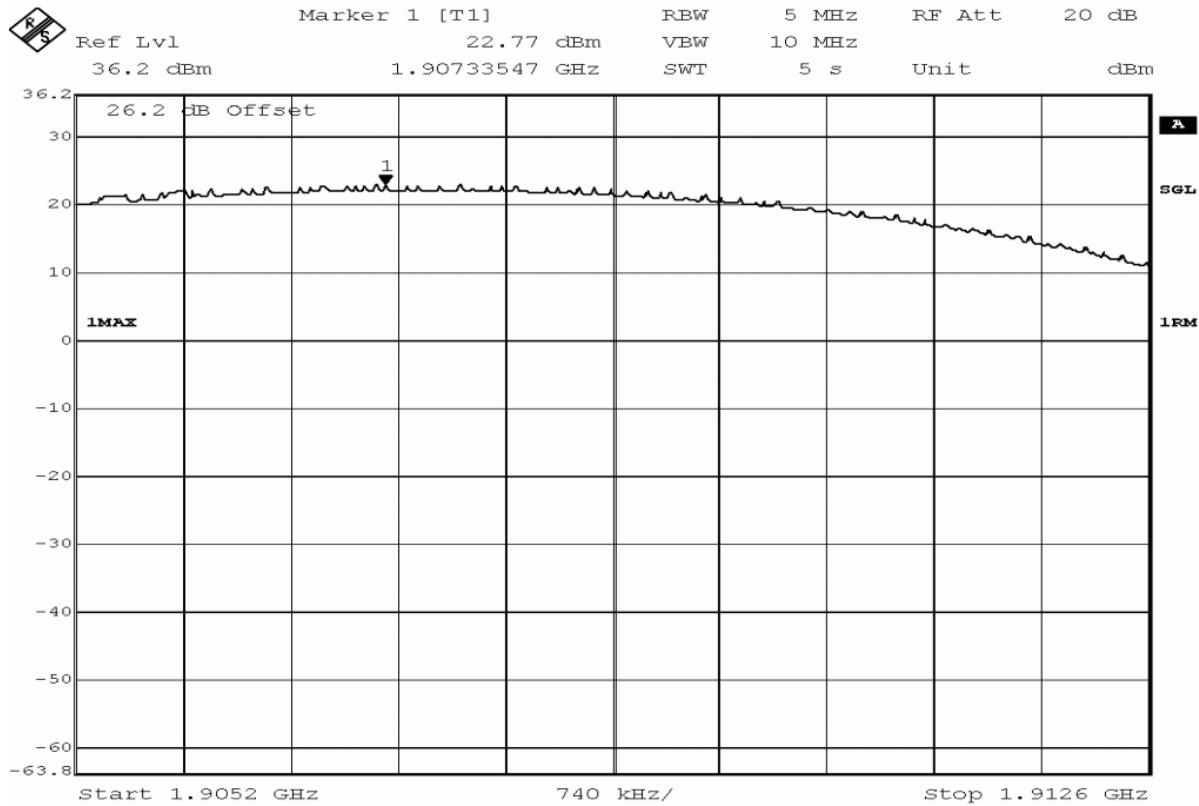
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 3 HSUPA FDD II, output power,  
channel 9538 (1907.6MHz)  
Date: 20.AUG.2011 02:41:23



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.70                     | passed  |
| average  | maxhold | 5000                      | 21.93                     | passed  |
| rms      | maxhold | 5000                      | 22.77                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.23 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_4, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:42

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

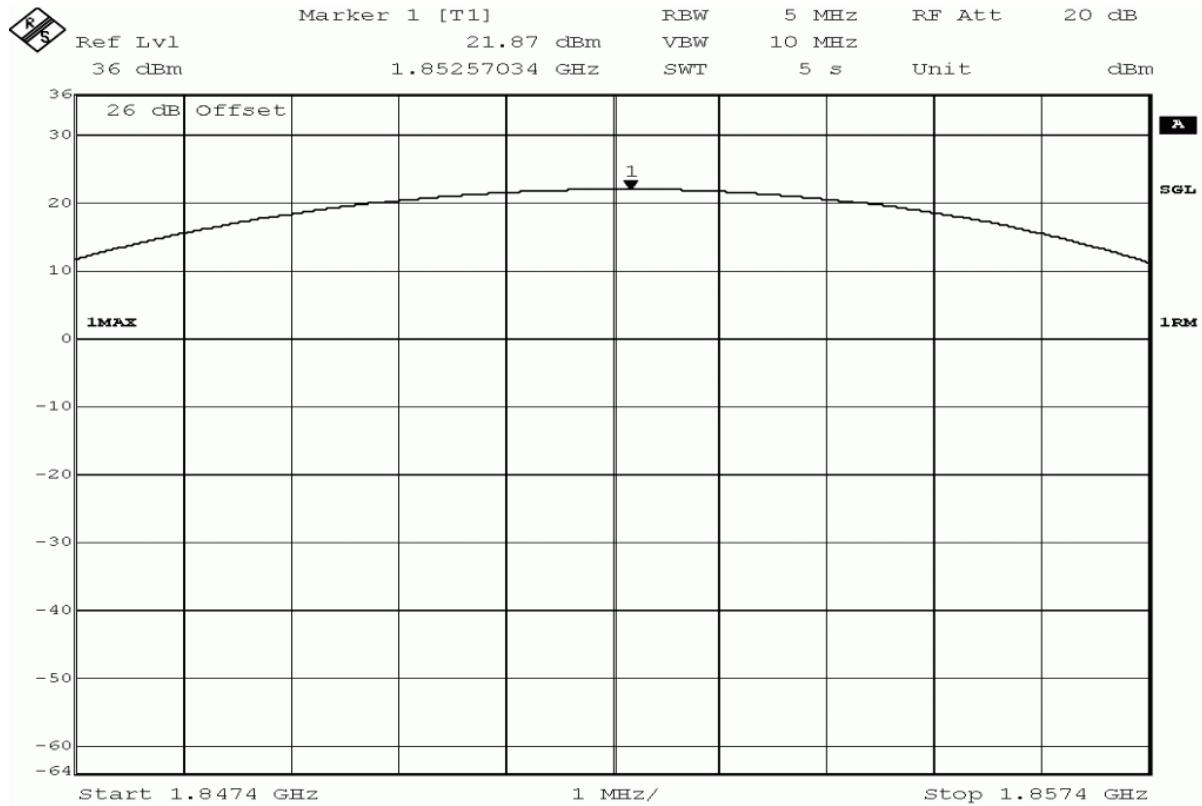
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 4 HSUPA FDD II, output power,  
channel 9262 (1852.4MHz)  
Date: 20.AUG.2011 02:44:13



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.00                     | passed  |
| average  | maxhold | 5000                      | 21.09                     | passed  |
| rms      | maxhold | 5000                      | 21.87                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.13 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_4, Channel = 9400, Frequency = 1880MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:41

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

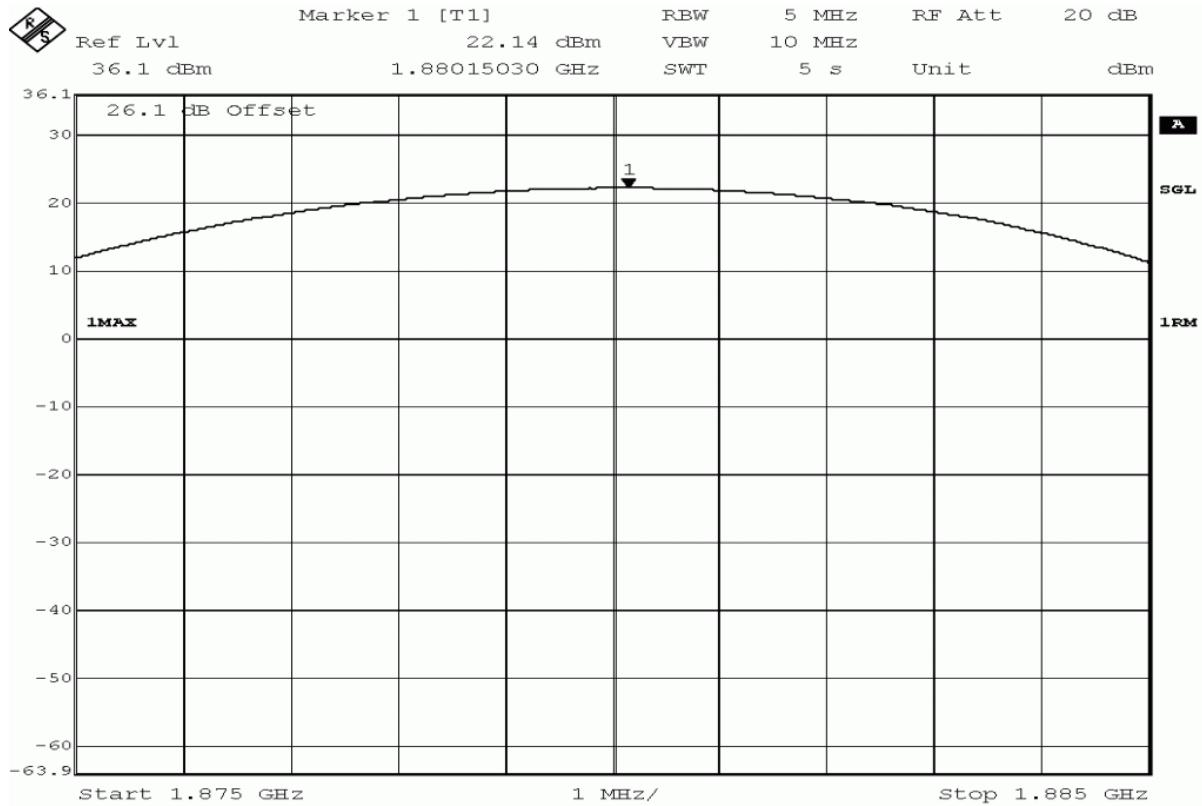
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 4 HSUPA FDD II, output power,  
channel 9400 (1880.0MHz)  
Date: 20.AUG.2011 02:43:05



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.31                     | passed  |
| average  | maxhold | 5000                      | 21.16                     | passed  |
| rms      | maxhold | 5000                      | 22.14                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.86 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_4, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

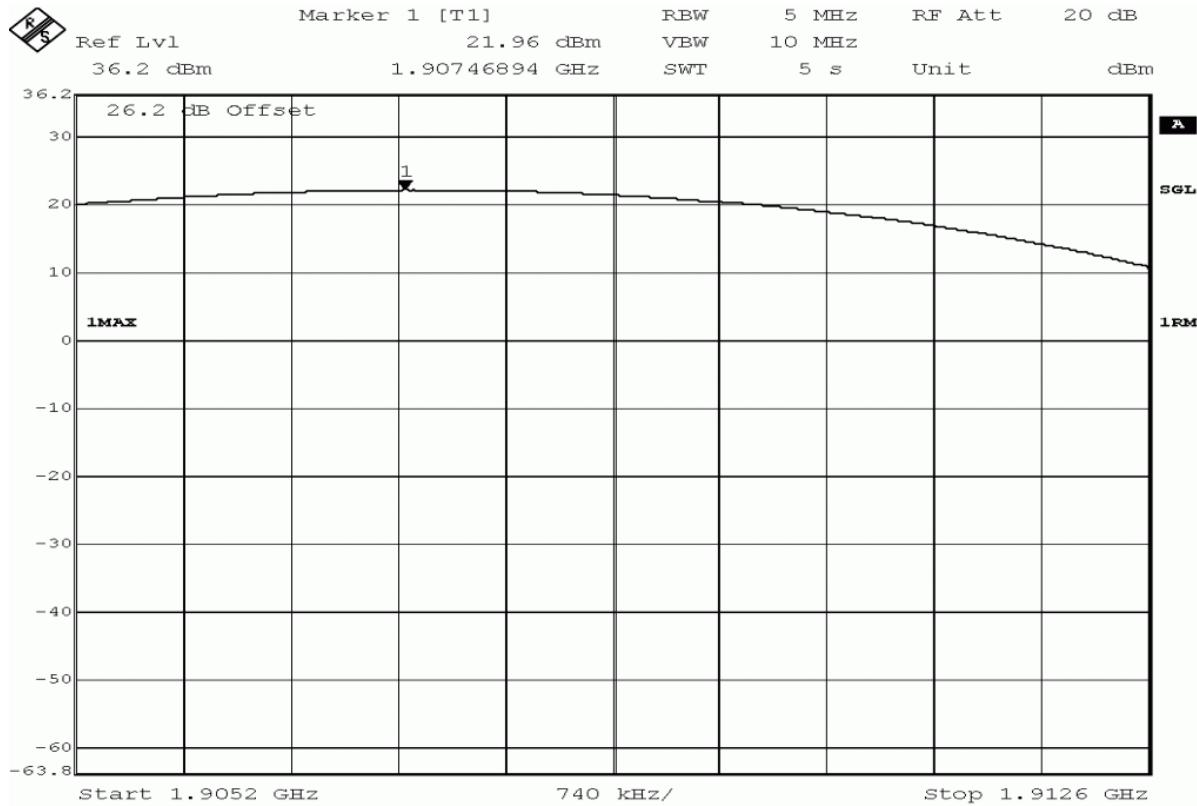
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:43

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 4 HSUPA FDD II, output power,  
 channel 9538 (1907.6MHz)  
 Date: 20.AUG.2011 02:45:29



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.20                     | passed  |
| average  | maxhold | 5000                      | 20.97                     | passed  |
| rms      | maxhold | 5000                      | 21.96                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.04 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_5, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:46

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

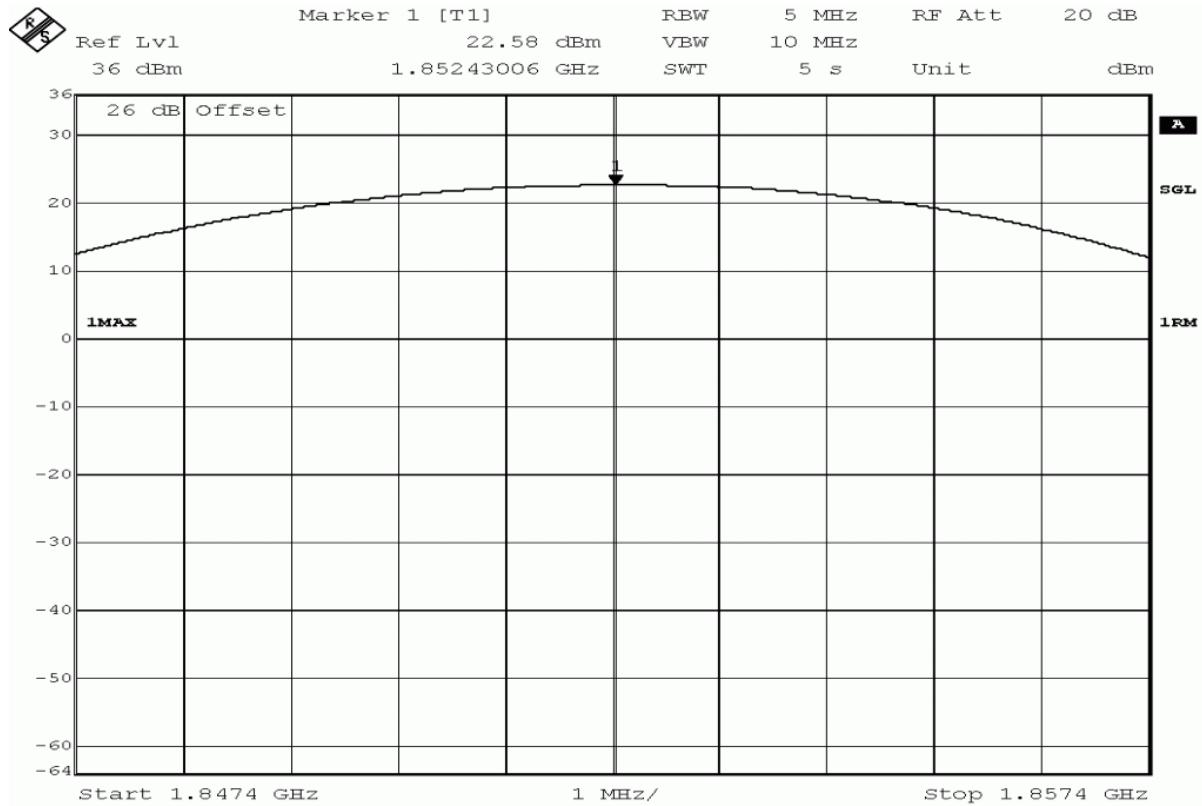
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 5 HSUPA FDD II, output power,  
channel 9262 (1852.4MHz)  
Date: 20.AUG.2011 02:48:37



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 29.60                     | passed  |
| average  | maxhold | 5000                      | 22.21                     | passed  |
| rms      | maxhold | 5000                      | 22.58                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.42 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_5, Channel = 9400, Frequency = 1880MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:45

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

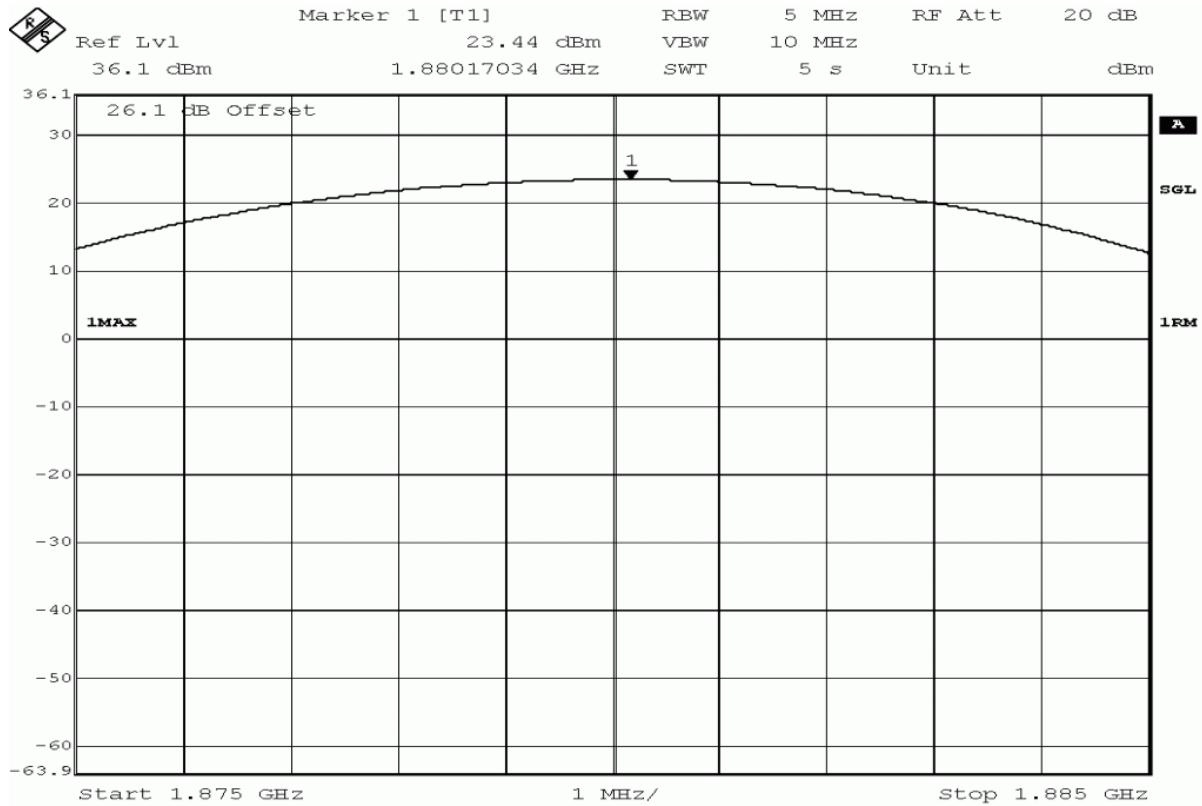
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, subtest 5 HSUPA FDD II, output power,  
channel 9400 (1880.0MHz)  
Date: 20.AUG.2011 02:47:28



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.31                     | passed  |
| average  | maxhold | 5000                      | 23.08                     | passed  |
| rms      | maxhold | 5000                      | 23.44                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

2.69 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = HSUPA\_subtest\_5, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

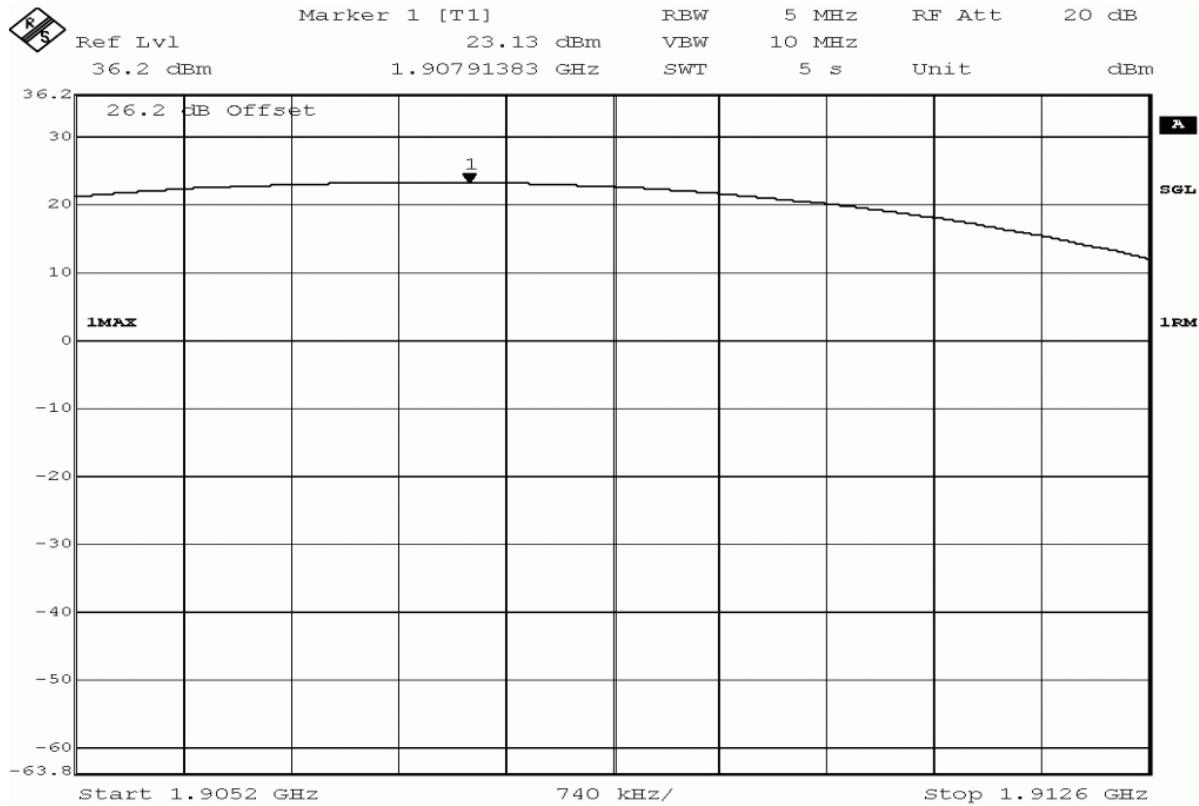
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:47

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, subtest 5 HSUPA FDD II, output power,  
 channel 9538 (1907.6MHz)  
 Date: 20.AUG.2011 02:49:47



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 30.07                     | passed  |
| average  | maxhold | 5000                      | 22.76                     | passed  |
| rms      | maxhold | 5000                      | 23.13                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.24 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9262, Frequency = 1852.4MHz, Method = conducted**

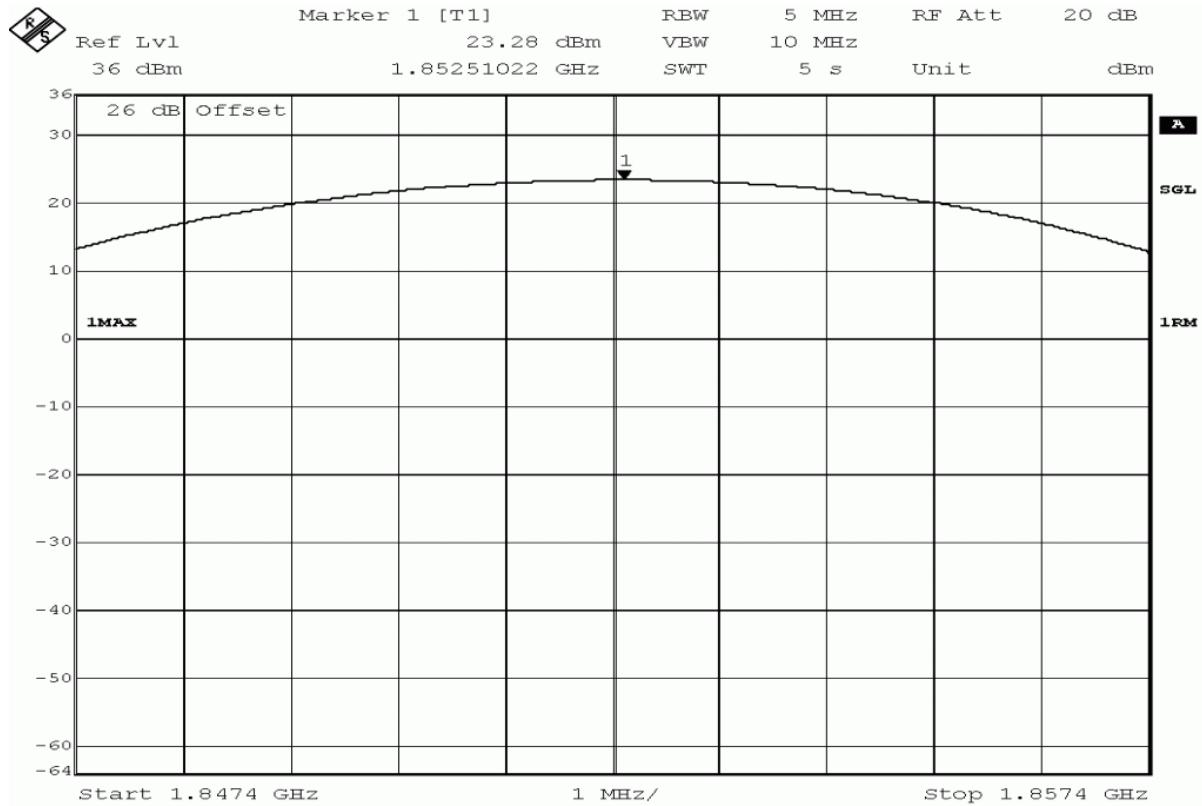
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:38

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, FDD II, output power,  
 channel 9262 (1852.4MHz)  
 Date: 20.AUG.2011 01:40:43



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 28.82                     | passed  |
| average  | maxhold | 5000                      | 23.06                     | passed  |
| rms      | maxhold | 5000                      | 23.28                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

4.18 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz, Method = conducted**

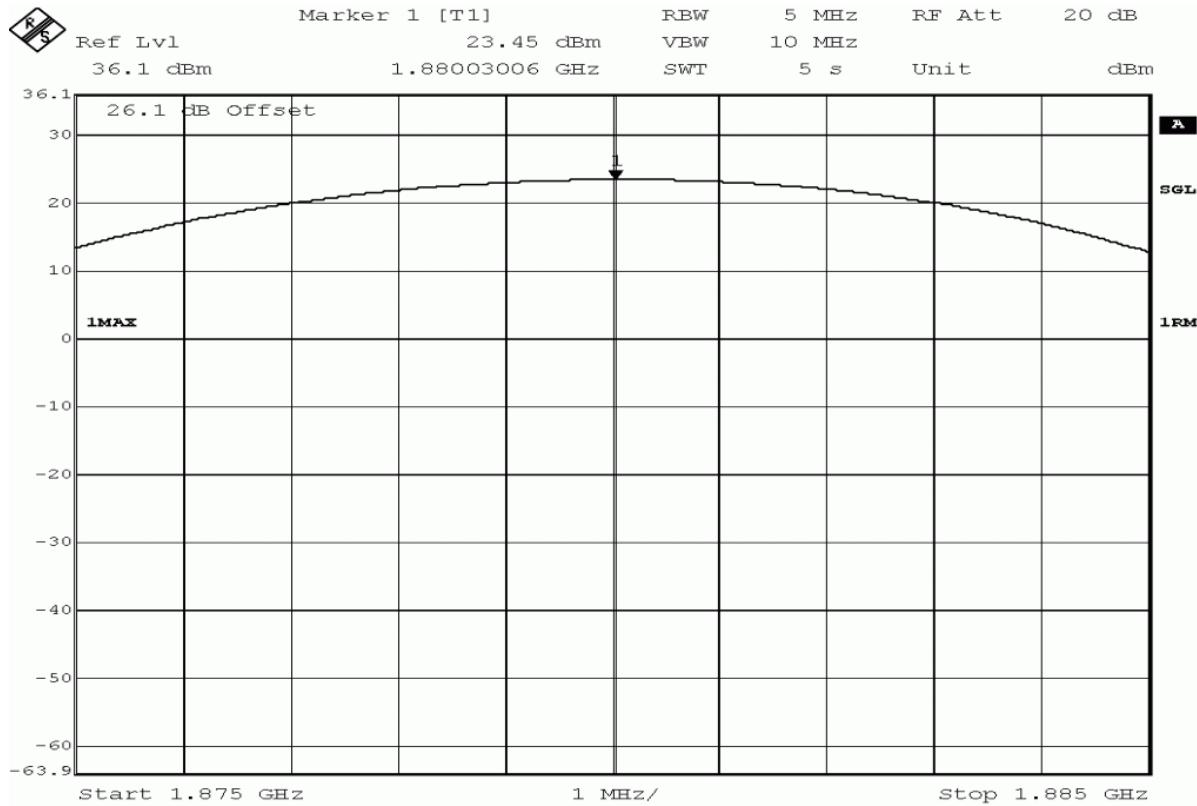
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:39

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


Title: output power measurement  
 Comment A: CZ600, FDD II, output power,  
 channel 9400 (1880.0MHz)  
 Date: 20.AUG.2011 01:41:56



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 28.92                     | passed  |
| average  | maxhold | 5000                      | 23.22                     | passed  |
| rms      | maxhold | 5000                      | 23.45                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

4.08 dBi

**Test: 24.1; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9538, Frequency = 1907.6MHz, Method = conducted**

*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:48

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

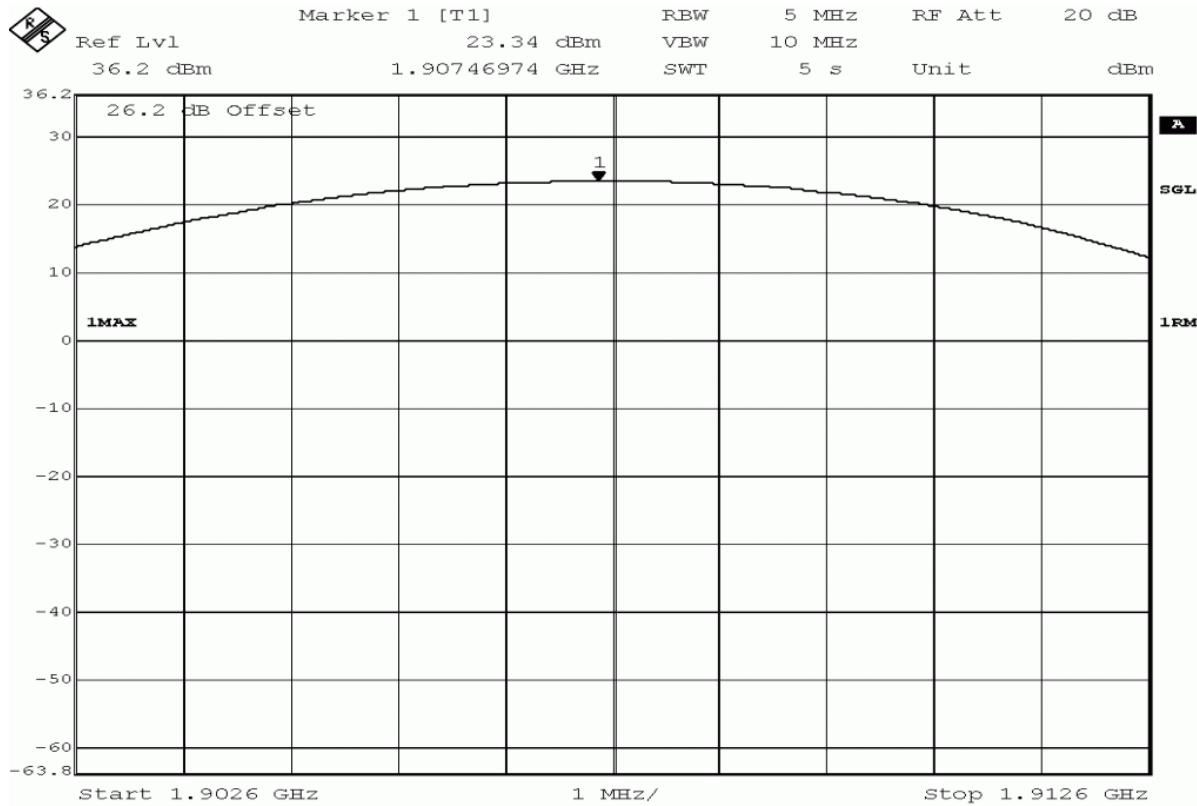
*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**



Title: output power measurement  
Comment A: CZ600, FDD II, output power,  
channel 9538 (1907.6MHz)  
Date: 20.AUG.2011 01:50:18



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | conducted peak value /dBm | verdict |
|----------|---------|---------------------------|---------------------------|---------|
| peak     | maxhold | 5000                      | 28.77                     | passed  |
| average  | maxhold | 5000                      | 23.00                     | passed  |
| rms      | maxhold | 5000                      | 23.34                     | passed  |

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.00 dBi



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

### **3.5.2 24.2 Frequency stability §2.1055, §24.235**

**Test: 24.2; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz**

*Result:* Passed

*Setup No.:* B01\_RF1

*Date of Test:* 2011/08/19 9:01

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**

| FCC part 24 frequency stability |  |                        |                          |
|---------------------------------|--|------------------------|--------------------------|
| EDGE 1900 TCH 661               |  |                        |                          |
| Temp.<br>°C                     | Duration<br>min  | Normal Voltage / V     |                          |
|                                 |  | 4.2                    |                          |
| -30                             | 0  | 44                     | 54                       |
| -30                             | 5  | 61                     | 70                       |
| -30                             | 10   | 58                     | 67                       |
| -20                             | 0  | 71                     | 79                       |
| -20                             | 5  | 58                     | 67                       |
| -20                             | 10   | 62                     | 69                       |
| -10                             | 0  | 19                     | 27                       |
| -10                             | 5  | 72                     | 80                       |
| -10                             | 10   | 64                     | 73                       |
| 0                               | 0  | 30                     | 33                       |
| 0                               | 5  | 22                     | 26                       |
| 0                               | 10   | 12                     | 22                       |
| 10                              | 0  | 12                     | 34                       |
| 10                              | 5  | -1                     | -9                       |
| 10                              | 10   | 32                     | 41                       |
| 30                              | 0  | -21                    | -37                      |
| 30                              | 5  | 30                     | 39                       |
| 30                              | 10   | 46                     | 54                       |
| 40                              | 0  | 4                      | 112                      |
| 40                              | 5  | 10                     | 114                      |
| 40                              | 10   | 20                     | 28                       |
| 50                              | 0  | -20                    | -28                      |
| 50                              | 5  | 42                     | 52                       |
| 50                              | 10   | 40                     | 49                       |
| Remark                          | none   |                        |                          |
|                                 |  |                        |                          |
| Temp.<br>°C                     | Duration<br>min  | Minimum Voltage / V    | Normal Voltage / V       |
|                                 |  | 85%=-3.3               | 100%=-4.2                |
| Temp.<br>°C                     | Duration<br>min  | Freq. error<br>Average | Freq. error<br>Max. (Hz) |
|                                 |  | Freq. error<br>Average | Freq. error<br>Max. (Hz) |
| 20                              | 0  | -3                     | -26                      |
| 20                              | 5  | 34                     | 55                       |
| 20                              | 10   | 7                      | 46                       |
| Remark                          | The EUT was not able to reach (115% of normal voltage) |                        |                          |

**Test: 24.2; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz**

*Result:* Passed

*Setup No.:* B01\_RF1

*Date of Test:* 2011/08/19 9:00

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**

| FCC part 24 frequency stability |  |                          |                       |  |  |  |
|---------------------------------|--|--------------------------|-----------------------|--|--|--|
| GSM 1900 TCH 661                |  |                          |                       |  |  |  |
| Temp. °C                        | Duration min   | Normal Voltage / V       |                       |  |  |  |
|                                 |  | 4.2                      |                       |  |  |  |
| Temp. °C                        | Duration min   | Freq. error Average (Hz) | Freq. error Max. (Hz) |  |  |  |
| -30                             | 0  | 65                       | 86                    |  |  |  |
| -30                             | 5  | 42                       | 55                    |  |  |  |
| -30                             | 10   | 19                       | 25                    |  |  |  |
| -20                             | 0  | 53                       | 63                    |  |  |  |
| -20                             | 5  | 27                       | 32                    |  |  |  |
| -20                             | 10   | 32                       | 38                    |  |  |  |
| -10                             | 0  | 44                       | 50                    |  |  |  |
| -10                             | 5  | 77                       | 80                    |  |  |  |
| -10                             | 10   | 56                       | 62                    |  |  |  |
| 0                               | 0  | 33                       | 41                    |  |  |  |
| 0                               | 5  | 28                       | 30                    |  |  |  |
| 0                               | 10   | 14                       | 28                    |  |  |  |
| 10                              | 0  | 28                       | 37                    |  |  |  |
| 10                              | 5  | 12                       | 19                    |  |  |  |
| 10                              | 10   | 34                       | 39                    |  |  |  |
| 30                              | 0  | -18                      | -27                   |  |  |  |
| 30                              | 5  | 8                        | 15                    |  |  |  |
| 30                              | 10   | 9                        | 26                    |  |  |  |
| 40                              | 0  | -10                      | -18                   |  |  |  |
| 40                              | 5  | 11                       | 17                    |  |  |  |
| 40                              | 10   | 18                       | 28                    |  |  |  |
| 50                              | 0  | -17                      | -26                   |  |  |  |
| 50                              | 5  | 6                        | 12                    |  |  |  |
| 50                              | 10   | 4                        | 9                     |  |  |  |
| Remark                          | none   |                          |                       |  |  |  |
|                                 |  |                          |                       |  |  |  |
| Temp. °C                        | Duration min   | Minimum Voltage / V      |                       |  |  |  |
|                                 |  | 85% = 3.3                |                       |  |  |  |
| Normal Voltage / V              |  |                          |                       |  |  |  |
| 100% = 4.2                      |  |                          |                       |  |  |  |
| Maximum Voltage / V             |  |                          |                       |  |  |  |
| 115% = x.x                      |  |                          |                       |  |  |  |
| Temp. °C                        | Duration min   | Freq. error Average (Hz) | Freq. error Max. (Hz) |  |  |  |
| 20                              | 0  | -6                       | -15                   |  |  |  |
| 20                              | 5  | 23                       | 32                    |  |  |  |
| 20                              | 10   | 15                       | 22                    |  |  |  |
| Remark                          | The EUT was not able to reach (115% of normal voltage) |                          |                       |  |  |  |

**Test: 24.2; Frequency Band = FDD2, Mode = HSDPA, Channel = 9400, Frequency = 1880MHz**

*Result:* Passed

*Setup No.:* B01\_RF1

*Date of Test:* 2011/08/19 9:02

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**

| FCC part 24 frequency stability |  |                          |                       |
|---------------------------------|--|--------------------------|-----------------------|
| UTRA FDD II HSDPA UARFCN 9400   |  |                          |                       |
| Temp. °C                        | Duration min   | Normal Voltage / V       |                       |
|                                 |  | 4.2                      |                       |
| Temp. °C                        | Duration min   | Freq. error Average (Hz) | Freq. error Max. (Hz) |
| -30                             | 0  | 1                        | -18                   |
| -30                             | 5  | -5                       | -15                   |
| -30                             | 10   | 0                        | -17                   |
| -20                             | 0  | -7                       | -25                   |
| -20                             | 5  | 3                        | 24                    |
| -20                             | 10   | -3                       | 16                    |
| -10                             | 0  | 7                        | 25                    |
| -10                             | 5  | 6                        | 24                    |
| -10                             | 10   | 1                        | -16                   |
| 0                               | 0  | 5                        | 18                    |
| 0                               | 5  | 7                        | 22                    |
| 0                               | 10   | 4                        | 16                    |
| 10                              | 0  | 10                       | 28                    |
| 10                              | 5  | 0                        | -19                   |
| 10                              | 10   | 0                        | 16                    |
| 30                              | 0  | -6                       | -18                   |
| 30                              | 5  | -7                       | -21                   |
| 30                              | 10   | -9                       | -14                   |
| 40                              | 0  | -2                       | -14                   |
| 40                              | 5  | -5                       | -21                   |
| 40                              | 10   | -9                       | -26                   |
| 50                              | 0  | 4                        | -14                   |
| 50                              | 5  | -1                       | -38                   |
| 50                              | 10   | -3                       | -29                   |
| Remark                          | none   |                          |                       |
|                                 |  |                          |                       |
| Temp. °C                        | Duration min   | Minimum Voltage / V      |                       |
|                                 |  | 85% = 3.3                |                       |
| Temp. °C                        | Duration min   | Normal Voltage / V       |                       |
|                                 |  | 100% = 4.2               |                       |
| Temp. °C                        | Duration min   | Maximum Voltage / V      |                       |
|                                 |  | 115% = x.x               |                       |
| 20                              | 0  | 8                        | 28                    |
| 20                              | 5  | -8                       | -29                   |
| 20                              | 10   | 0                        | 22                    |
| Remark                          | The EUT was not able to reach (115% of normal voltage) |                          |                       |

**Test: 24.2; Frequency Band = FDD2, Mode = HSUPA, Channel = 9400, Frequency = 1880MHz**

Result: Passed

Setup No.: B01\_RF1

Date of Test: 2011/08/19 9:02

Body: FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

Test Specification: FCC part 2 and 24

**Detailed Results:**

| FCC part 24 frequency stability |  |                          |                       |
|---------------------------------|--|--------------------------|-----------------------|
| UTRA FDD II HSUPA UARFCN 9400   |  |                          |                       |
| Temp. °C                        | Duration min   | Normal Voltage / V       |                       |
|                                 |  | 4.2                      |                       |
| Freq. error Average (Hz)        | Freq. error Max. (Hz)                                  |                          |                       |
| -30                             | 0  | -9                       | -22                   |
| -30                             | 5  | 4                        | 28                    |
| -30                             | 10   | -4                       | -10                   |
| -20                             | 0  | -3                       | 21                    |
| -20                             | 5  | 2                        | 30                    |
| -20                             | 10   | -6                       | -9                    |
| -10                             | 0  | 0                        | 22                    |
| -10                             | 5  | -4                       | -8                    |
| -10                             | 10   | -3                       | -8                    |
| 0                               | 0  | 7                        | 21                    |
| 0                               | 5  | 3                        | 20                    |
| 0                               | 10   | 6                        | 13                    |
| 10                              | 0  | 3                        | 19                    |
| 10                              | 5  | -1                       | -14                   |
| 10                              | 10   | -4                       | -14                   |
| 30                              | 0  | 3                        | 22                    |
| 30                              | 5  | 1                        | 26                    |
| 30                              | 10   | -6                       | -26                   |
| 40                              | 0  | 0                        | -24                   |
| 40                              | 5  | -4                       | 15                    |
| 40                              | 10   | -1                       | 14                    |
| 50                              | 0  | 5                        | 22                    |
| 50                              | 5  | -1                       | -17                   |
| 50                              | 10   | 2                        | -26                   |
| Remark                          | none   |                          |                       |
| Minimum Voltage / V             |  | Normal Voltage / V       | Maximum Voltage / V   |
| 85% = 3.3                       |  | 100% = 4.2               | 115% = x.x            |
| Temp. °C                        | Duration min   | Freq. error Average (Hz) | Freq. error Max. (Hz) |
| 20                              | 0  | 2                        | -23                   |
| 20                              | 5  | 5                        | 20                    |
| 20                              | 10   | -1                       | 13                    |
| Remark                          | The EUT was not able to reach (115% of normal voltage) |                          |                       |

**Test: 24.2; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz**

Result: Passed

Setup No.: B01\_RF1

Date of Test: 2011/08/19 9:01

Body: FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

Test Specification: FCC part 2 and 24



Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Detailed Results:**

| FCC part 24 frequency stability |  |                          |                       |
|---------------------------------|--|--------------------------|-----------------------|
| UTRA FDD II UARFCN 9400         |  |                          |                       |
| Temp. °C                        | Duration min   | Normal Voltage / V       |                       |
|                                 |  | 4.2                      |                       |
| Temp. °C                        | Duration min   | Freq. error Average (Hz) | Freq. error Max. (Hz) |
| -30                             | 0  | -3                       | 25                    |
| -30                             | 5  | -1                       | 30                    |
| -30                             | 10   | 0                        | 27                    |
| -20                             | 0  | 1                        | -37                   |
| -20                             | 5  | 1                        | -29                   |
| -20                             | 10   | -1                       | 32                    |
| -10                             | 0  | -6                       | -28                   |
| -10                             | 5  | -1                       | 33                    |
| -10                             | 10   | -1                       | -23                   |
| 0                               | 0  | 7                        | 22                    |
| 0                               | 5  | 6                        | 20                    |
| 0                               | 10   | 2                        | 11                    |
| 10                              | 0  | -3                       | -17                   |
| 10                              | 5  | 3                        | 23                    |
| 10                              | 10   | 0                        | 14                    |
| 30                              | 0  | 0                        | -14                   |
| 30                              | 5  | 13                       | 21                    |
| 30                              | 10   | 5                        | 19                    |
| 40                              | 0  | 0                        | -18                   |
| 40                              | 5  | -3                       | 27                    |
| 40                              | 10   | 2                        | 23                    |
| 50                              | 0  | -2                       | -19                   |
| 50                              | 5  | 3                        | 21                    |
| 50                              | 10   | -1                       | 22                    |
| Remark                          | none   |                          |                       |
|                                 |  |                          |                       |
| Temp. °C                        | Duration min   | Minimum Voltage / V      |                       |
|                                 |  | 85% = 3.3                |                       |
| Temp. °C                        | Duration min   | Normal Voltage / V       |                       |
|                                 |  | 100% = 4.2               |                       |
| Temp. °C                        | Duration min   | Maximum Voltage / V      |                       |
|                                 |  | 115% = x.x               |                       |
| 20                              | 0  | -7                       | -16                   |
| 20                              | 5  | 0                        | -22                   |
| 20                              | 10   | -7                       | -30                   |
| Remark                          | The EUT was not able to reach (115% of normal voltage) |                          |                       |



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

### **3.5.3 24.3 Spurious emissions at antenna terminals §2.1051, §24.238**

**Test: 24.3; Frequency Band = 1900, Mode = EDGE, Channel = 512, Frequency = 1850.2MHz**

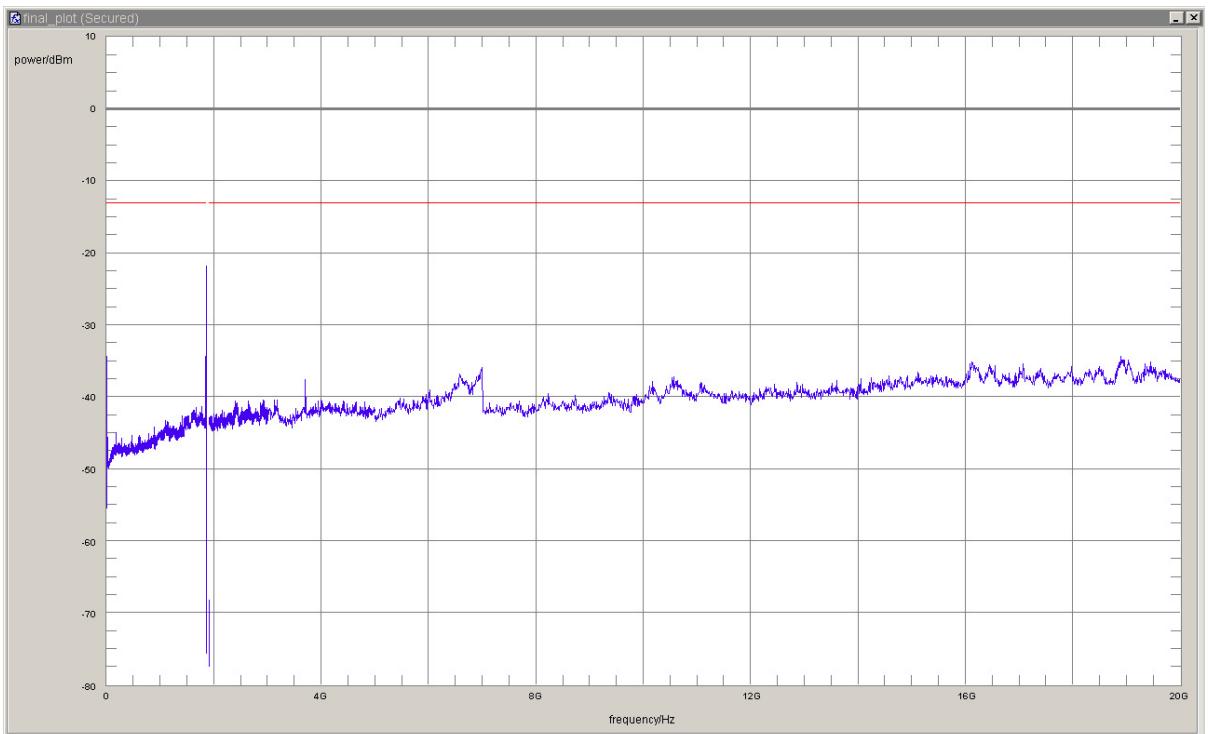
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:45

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| peak     | maxhold | 100                       | 1848.30        | -32.4           | 19.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.57        | -30.6           | 17.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.60        | -31.2           | 18.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.68        | -31.3           | 18.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.71        | -32.1           | 19.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.86        | -31.1           | 18.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.89        | -31.1           | 18.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.93        | -32.8           | 19.8                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9479      | -24.8           | 11.8                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9760      | -22.4           | 9.4                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9900      | -21.8           | 8.8                 | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = 1900, Mode = EDGE, Channel = 661, Frequency = 1880.0MHz**

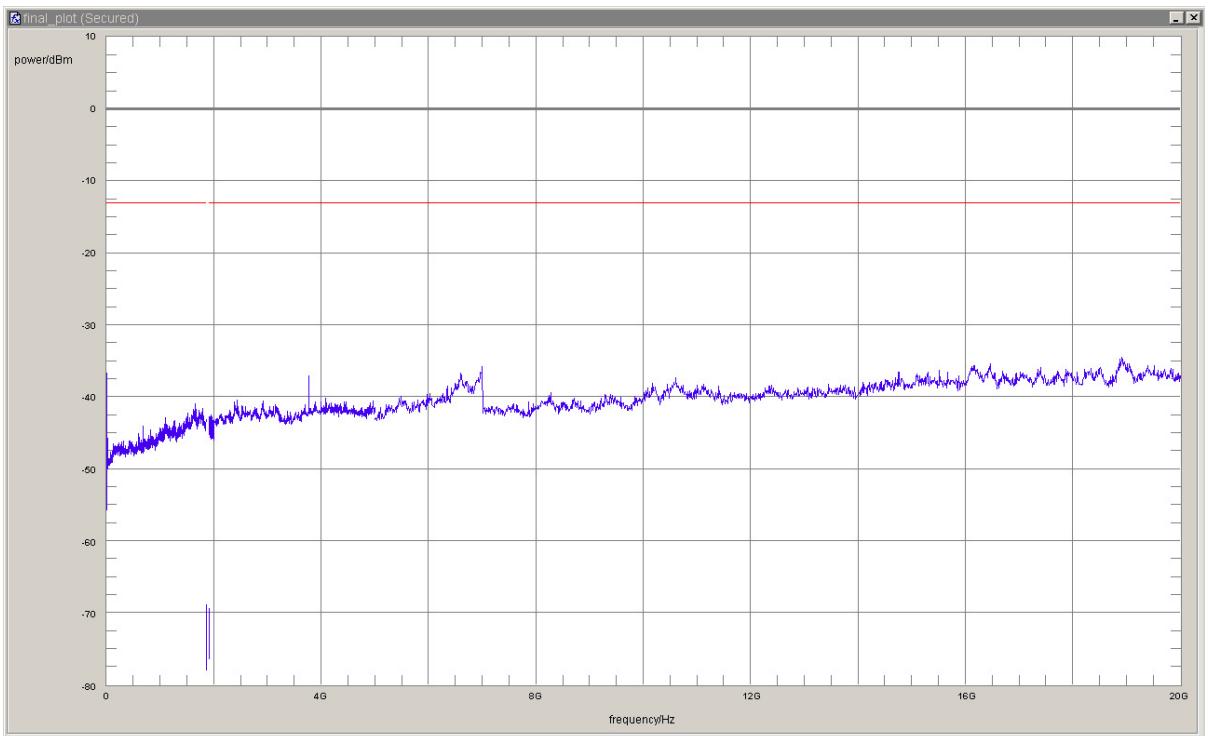
Result: Passed

Setup No.: B01\_direct

Date of Test: 2011/08/19 19:38

Body: FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

Test Specification: FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| peak     | maxhold | 1000                      | 18907.816      | -34.48          | 21.48               | -13        | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = 1900, Mode = EDGE, Channel = 810, Frequency = 1909.8MHz**

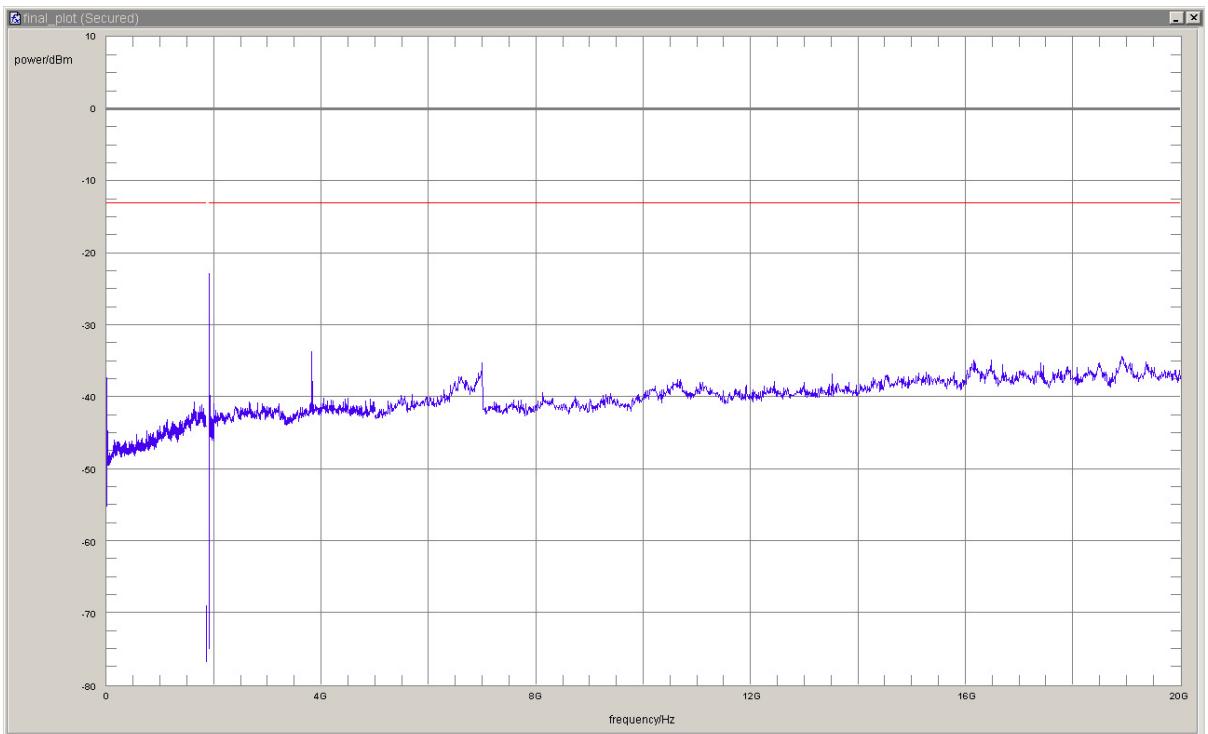
Result: Passed

Setup No.: B01\_direct

Date of Test: 2011/08/20 2:00

Body: FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

Test Specification: FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| peak     | maxhold | 3                         | 1910.0000      | -23.4           | 10.4                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0180      | -22.9           | 9.9                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0421      | -26.0           | 13.0                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0621      | -31.3           | 18.3                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0681      | -29.9           | 16.9                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0822      | -31.2           | 18.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.05        | -32.8           | 19.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.23        | -32.5           | 19.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.32        | -32.2           | 19.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.36        | -31.3           | 18.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.40        | -31.5           | 18.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.43        | -27.7           | 14.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.47        | -30.5           | 17.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.51        | -32.8           | 19.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.54        | -32.9           | 19.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.79        | -31.4           | 18.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.83        | -31.9           | 18.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.96        | -31.7           | 18.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.99        | -31.8           | 18.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.14        | -32.5           | 19.5                | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Test: 24.3; Frequency Band = 1900, Mode = GSM, Channel = 512, Frequency = 1850.2MHz**

*Result:* Passed

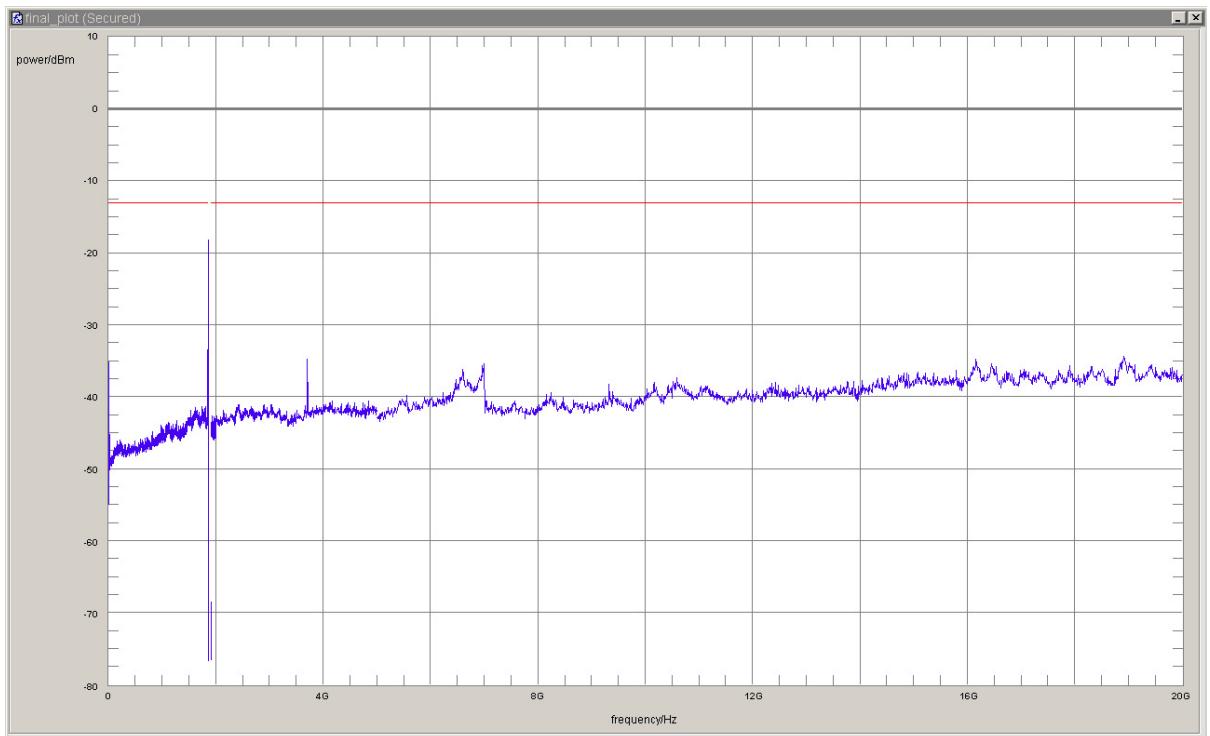
*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:23

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**



| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| peak     | maxhold | 100                       | 1847.48        | -32.8           | 19.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.52        | -31.9           | 18.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.59        | -32.7           | 19.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.63        | -31.5           | 18.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.67        | -31.8           | 18.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.70        | -32.5           | 19.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.81        | -32.3           | 19.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.85        | -30.4           | 17.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1847.88        | -31.2           | 18.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.04        | -30.6           | 17.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.08        | -31.4           | 18.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.12        | -31.1           | 18.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.15        | -31.1           | 18.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.19        | -31.7           | 18.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.22        | -32.6           | 19.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.30        | -32.1           | 19.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.33        | -30.5           | 17.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.37        | -32.4           | 19.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.40        | -32.5           | 19.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.44        | -28.6           | 15.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.48        | -28.1           | 15.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.51        | -28.1           | 15.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.55        | -29.2           | 16.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.64        | -28.3           | 15.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.68        | -27.7           | 14.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.71        | -28.2           | 15.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.78        | -30.2           | 17.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.82        | -31.8           | 18.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.86        | -29.4           | 16.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.89        | -30.0           | 17.0                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.93        | -31.2           | 18.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1848.96        | -31.1           | 18.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1849.00        | -32.0           | 19.0                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9058      | -32.0           | 19.0                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9259      | -28.8           | 15.8                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9339      | -26.8           | 13.8                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9559      | -22.9           | 9.9                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9639      | -21.1           | 8.1                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9760      | -18.2           | 5.2                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1849.9960      | -18.7           | 5.7                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1850.0000      | -18.7           | 5.7                 | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB



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Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

**Test: 24.3; Frequency Band = 1900, Mode = GSM, Channel = 661, Frequency = 1880.0MHz**

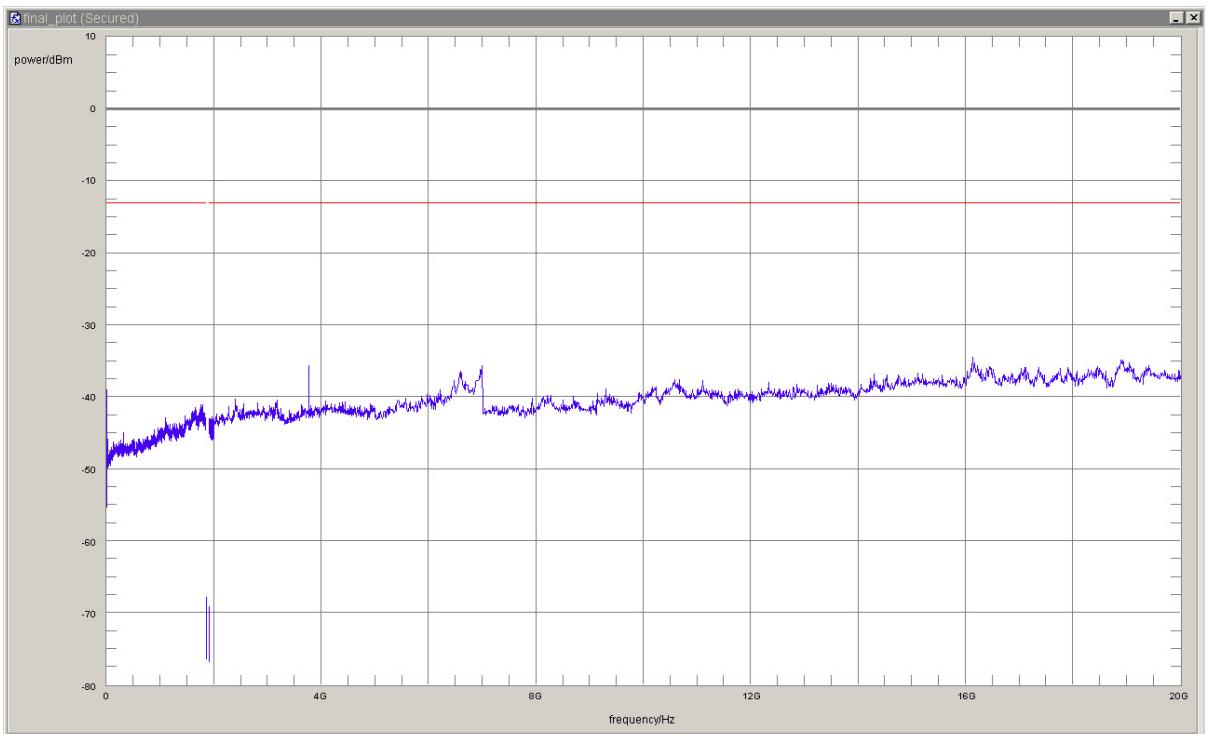
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/19 19:13

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| peak     | maxhold | 1000                      | 16132.265      | -34.44          | 21.44               | -13        | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = 1900, Mode = GSM, Channel = 810, Frequency = 1909.8MHz**

Result: Passed

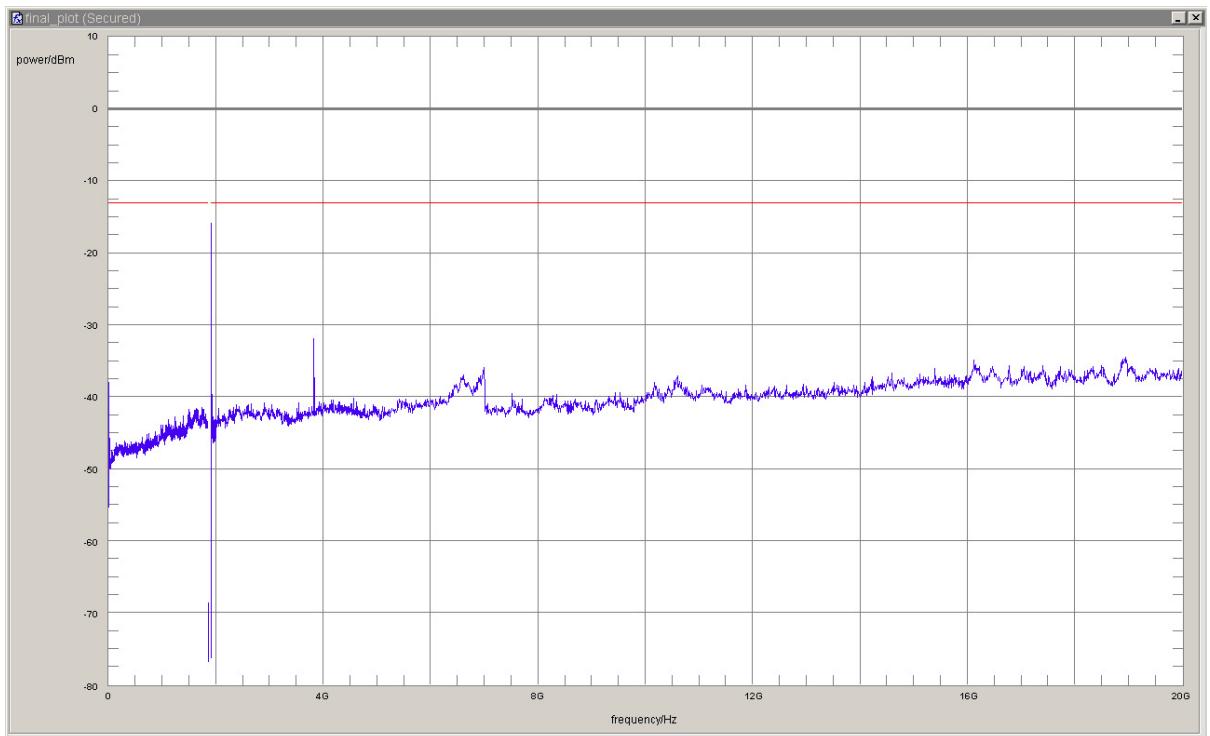
Setup No.: B01\_direct

Date of Test: 2011/08/19 19:30

Body: FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

Test Specification: FCC part 2 and 24

**Detailed Results:**





Reference: MDE\_CINTE\_1107\_FCCc

acc. Title 47 CFR chapter I part 24 subpart E

| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| peak     | maxhold | 3                         | 1910.0000      | -15.8           | 2.8                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0180      | -16.4           | 3.4                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0461      | -20.7           | 7.7                 | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0721      | -26.6           | 13.6                | -13.0      | passed  |
| peak     | maxhold | 3                         | 1910.0802      | -29.1           | 16.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.00        | -30.2           | 17.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.04        | -31.4           | 18.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.07        | -31.5           | 18.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.11        | -31.5           | 18.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.14        | -32.3           | 19.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.18        | -32.9           | 19.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.22        | -32.3           | 19.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.25        | -29.7           | 16.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.29        | -28.7           | 15.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.32        | -28.1           | 15.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.36        | -26.9           | 13.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.49        | -29.3           | 16.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.52        | -30.5           | 17.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.56        | -32.0           | 19.0                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.60        | -31.9           | 18.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.63        | -31.7           | 18.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.67        | -30.2           | 17.2                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.70        | -31.6           | 18.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.74        | -32.7           | 19.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.78        | -31.9           | 18.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.81        | -31.6           | 18.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.85        | -32.1           | 19.1                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.88        | -32.5           | 19.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.96        | -31.5           | 18.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1911.99        | -32.8           | 19.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.12        | -32.5           | 19.5                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.15        | -31.4           | 18.4                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.23        | -32.8           | 19.8                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.26        | -32.3           | 19.3                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.37        | -32.9           | 19.9                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.44        | -32.7           | 19.7                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.75        | -32.6           | 19.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.79        | -32.6           | 19.6                | -13.0      | passed  |
| peak     | maxhold | 100                       | 1912.82        | -32.1           | 19.1                | -13.0      | passed  |
| peak     | maxhold | 1000                      | 3821.6         | -31.9           | 18.9                | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = HSDPA, Channel = 9262, Frequency = 1852.4MHz**

*Result:* Passed

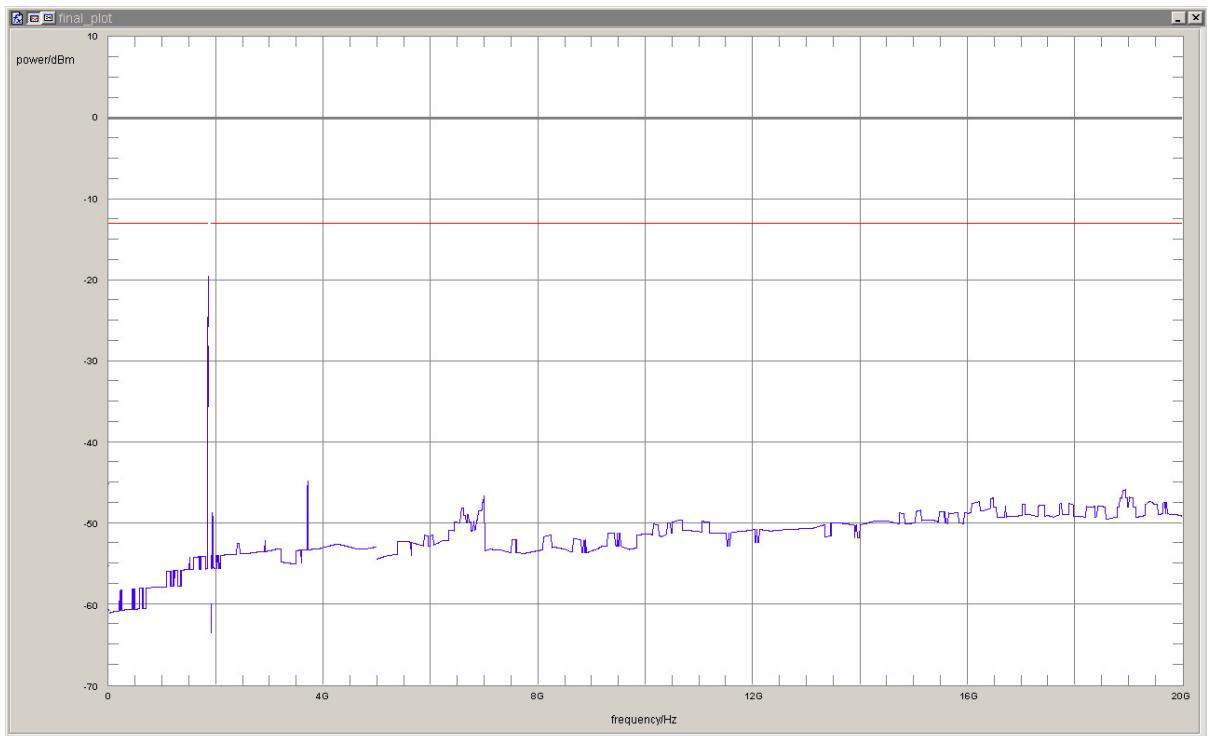
*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:05

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**



| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 100                       | 1848.78        | -19.5           | 6.5                 | -13.0      | passed  |
| rms      | maxhold | 50                        | 1850.00        | -28.1           | 15.1                | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = HSDPA, Channel = 9400, Frequency = 1880MHz**

*Result:* Passed

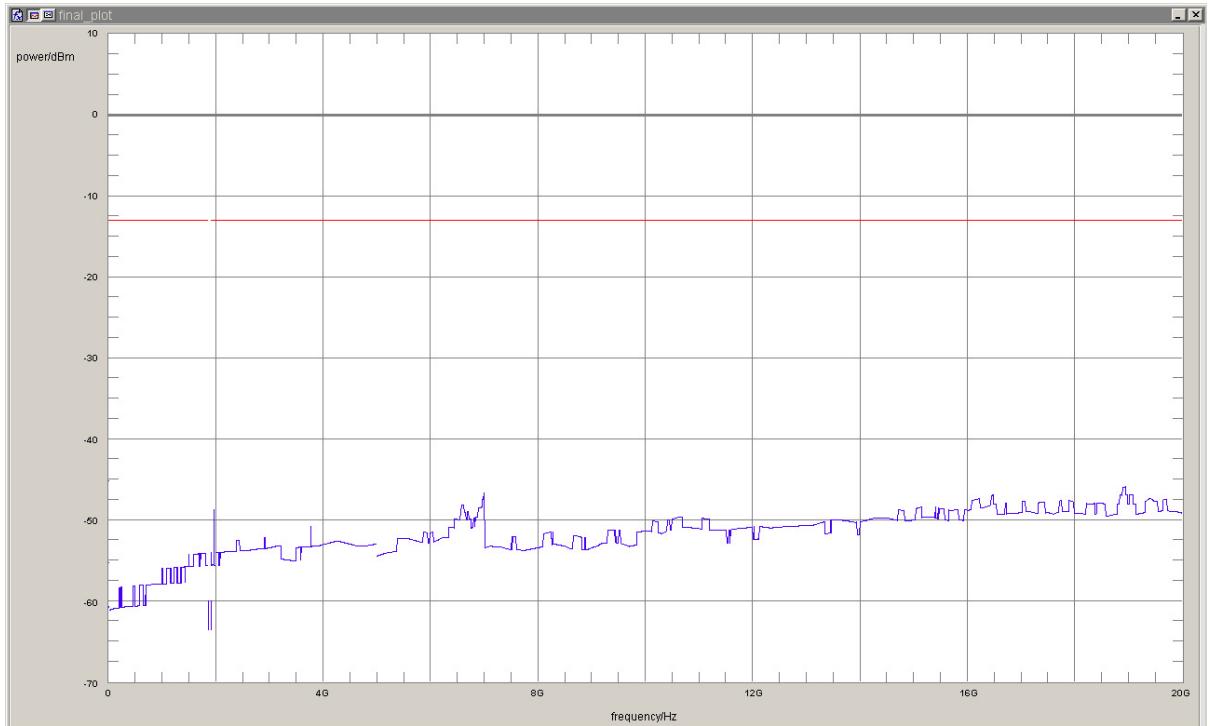
*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 0:55

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**



| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 1                         | 0.009          | -45.22          | 32.22               | -13        | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = HSDPA, Channel = 9538, Frequency = 1907.6MHz**

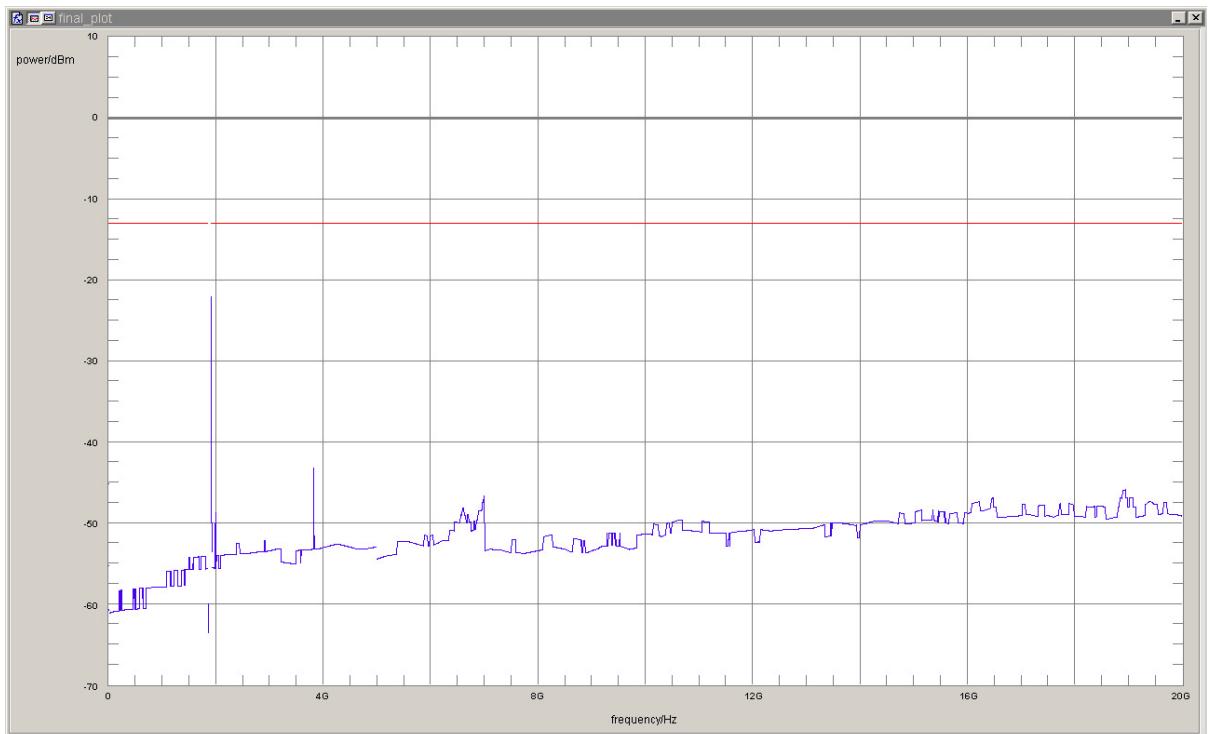
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:16

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 50                        | 1910.03        | -30.7           | 17.7                | -13.0      | passed  |
| rms      | maxhold | 100                       | 1911.23        | -22.1           | 9.1                 | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = HSUPA, Channel = 9262, Frequency = 1852.4MHz**

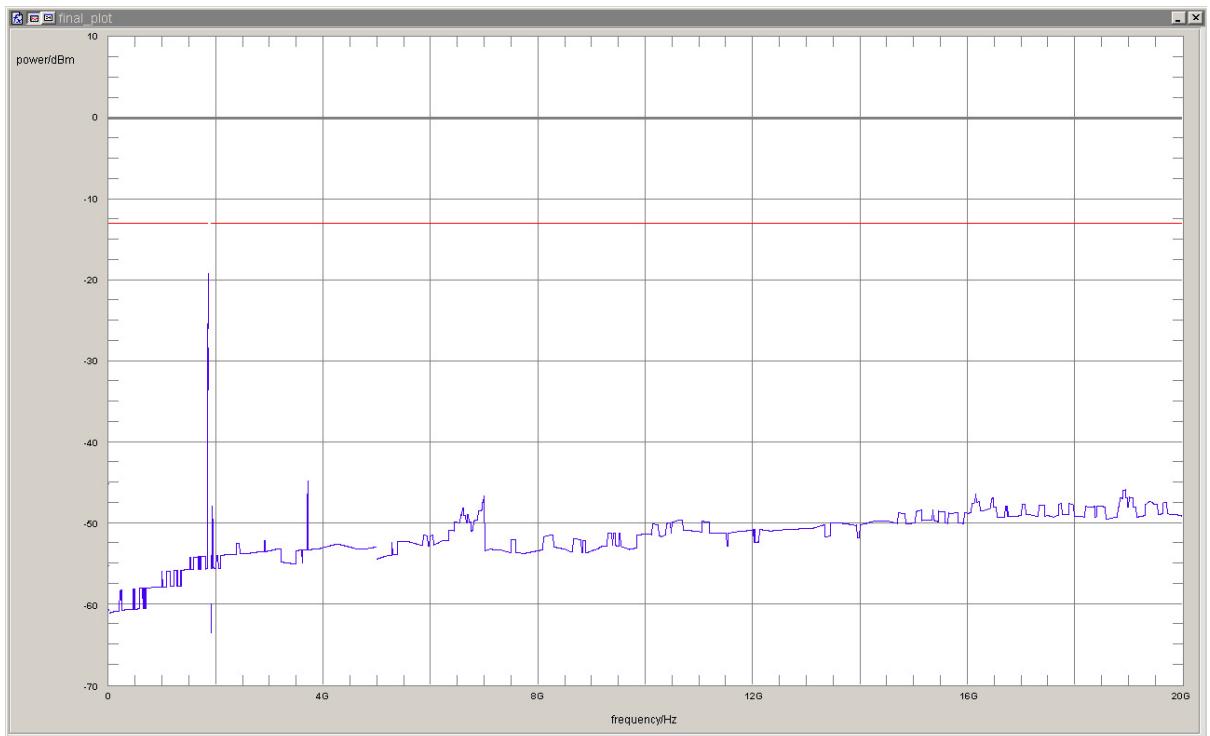
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:16

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 100                       | 1848.91        | -19.2           | 6.2                 | -13.0      | passed  |
| rms      | maxhold | 50                        | 1849.98        | -28.4           | 15.4                | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = HSUPA, Channel = 9400, Frequency = 1880MHz**

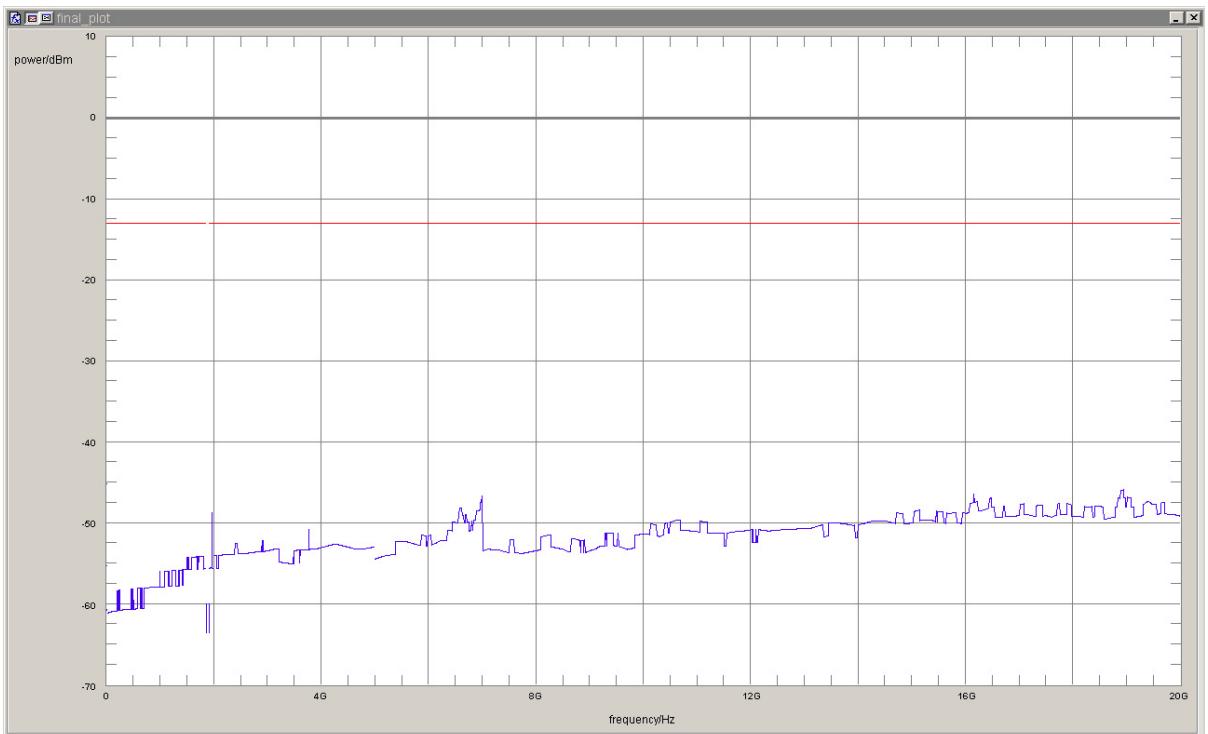
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 2:10

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 1                         | 0.009          | -45.22          | 32.22               | -13        | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = HSUPA, Channel = 9538, Frequency = 1907.6MHz**

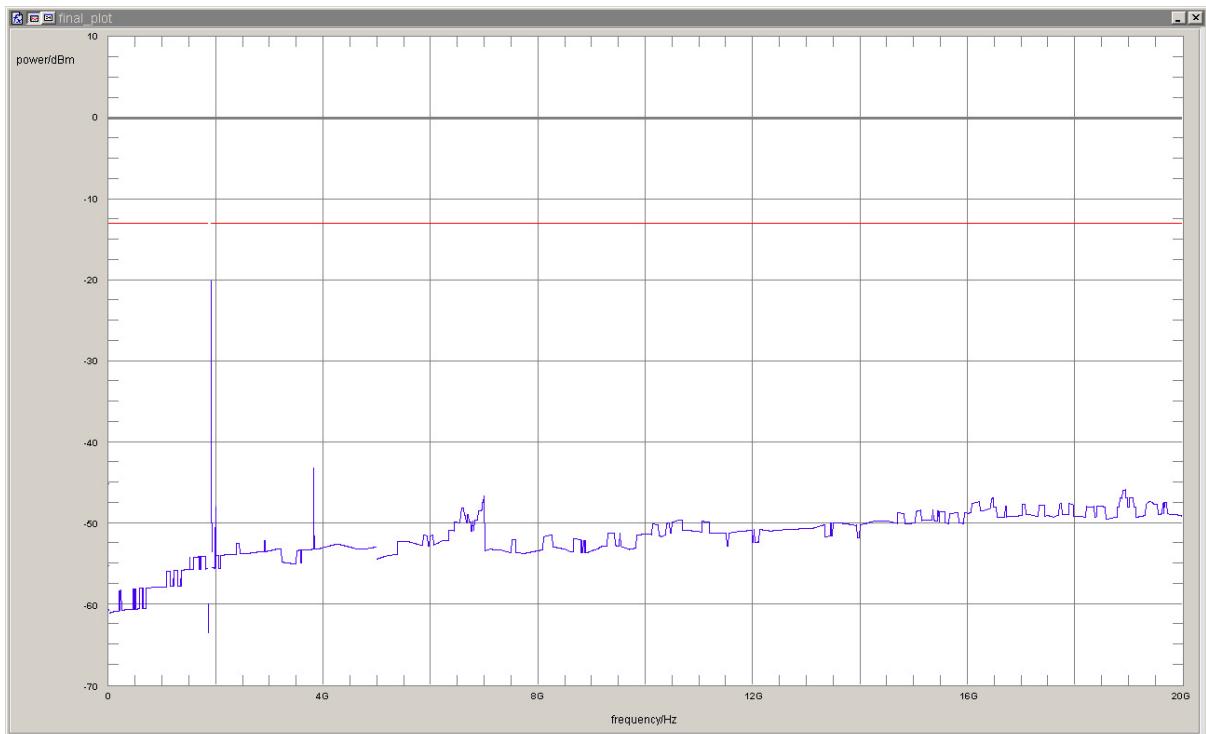
Result: Passed

Setup No.: B01\_direct

Date of Test: 2011/08/20 2:23

Body: FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

Test Specification: FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 50                        | 1910.02        | -30.9           | 17.9                | -13.0      | passed  |
| rms      | maxhold | 100                       | 1911.14        | -20.1           | 7.1                 | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9262, Frequency = 1852.4MHz**

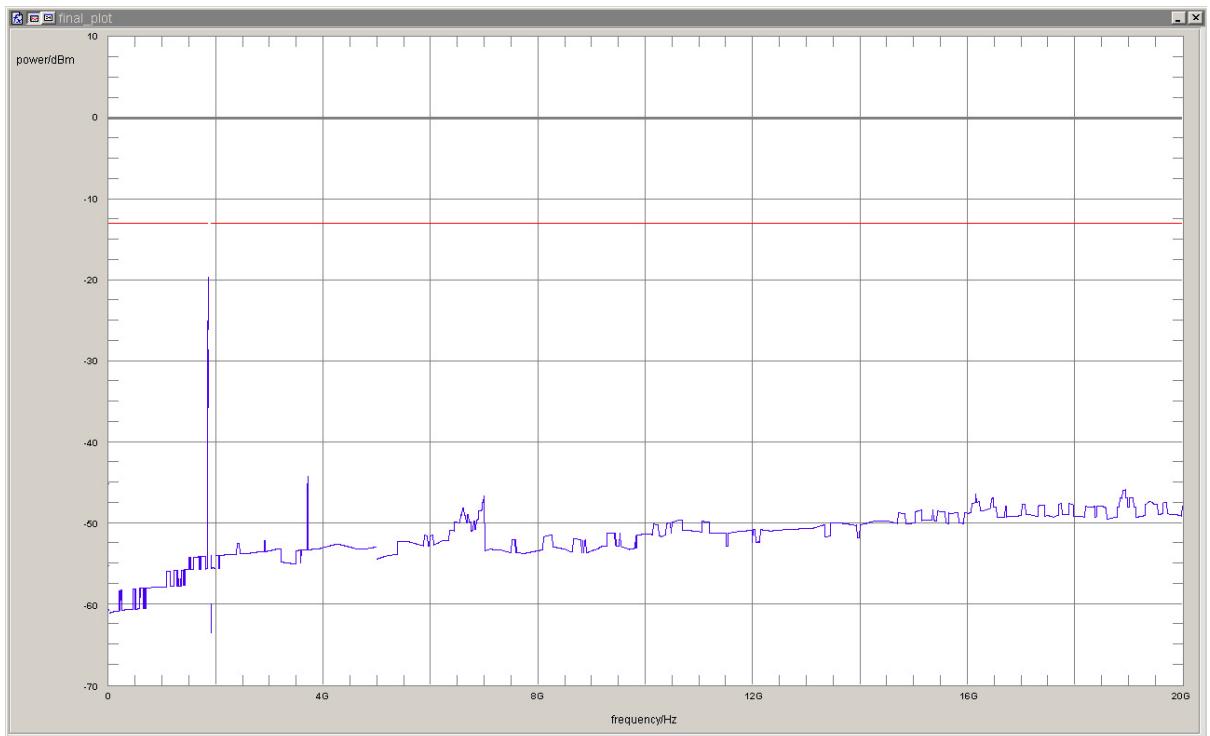
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:33

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 100                       | 1848.77        | -19.7           | 6.7                 | -13.0      | passed  |
| rms      | maxhold | 50                        | 1849.98        | -28.6           | 15.6                | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9400, Frequency = 1880MHz**

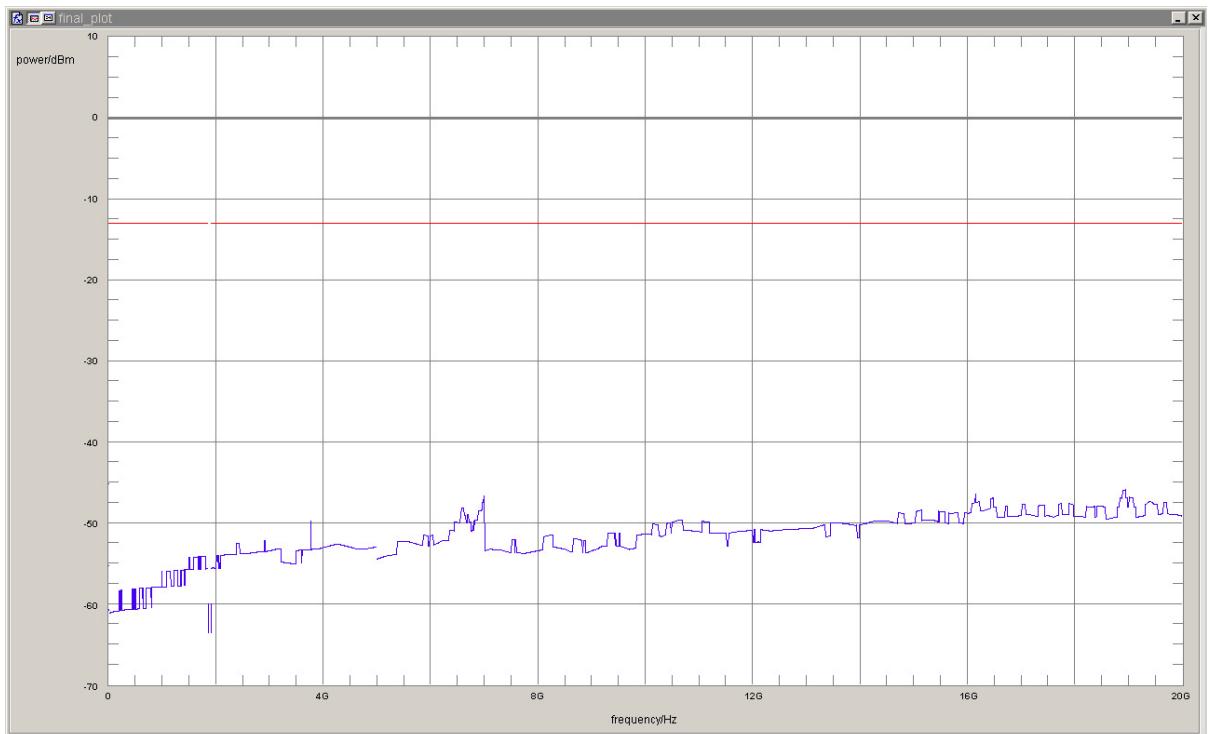
*Result:* Passed

*Setup No.:* B01\_direct

*Date of Test:* 2011/08/20 1:42

*Body:* FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

*Test Specification:* FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 1                         | 0.009          | -45.22          | 32.22               | -13        | passed  |

no further values have been found with a margin of less than 20 dB

**Test: 24.3; Frequency Band = FDD2, Mode = W-CDMA, Channel = 9538, Frequency = 1907.6MHz**

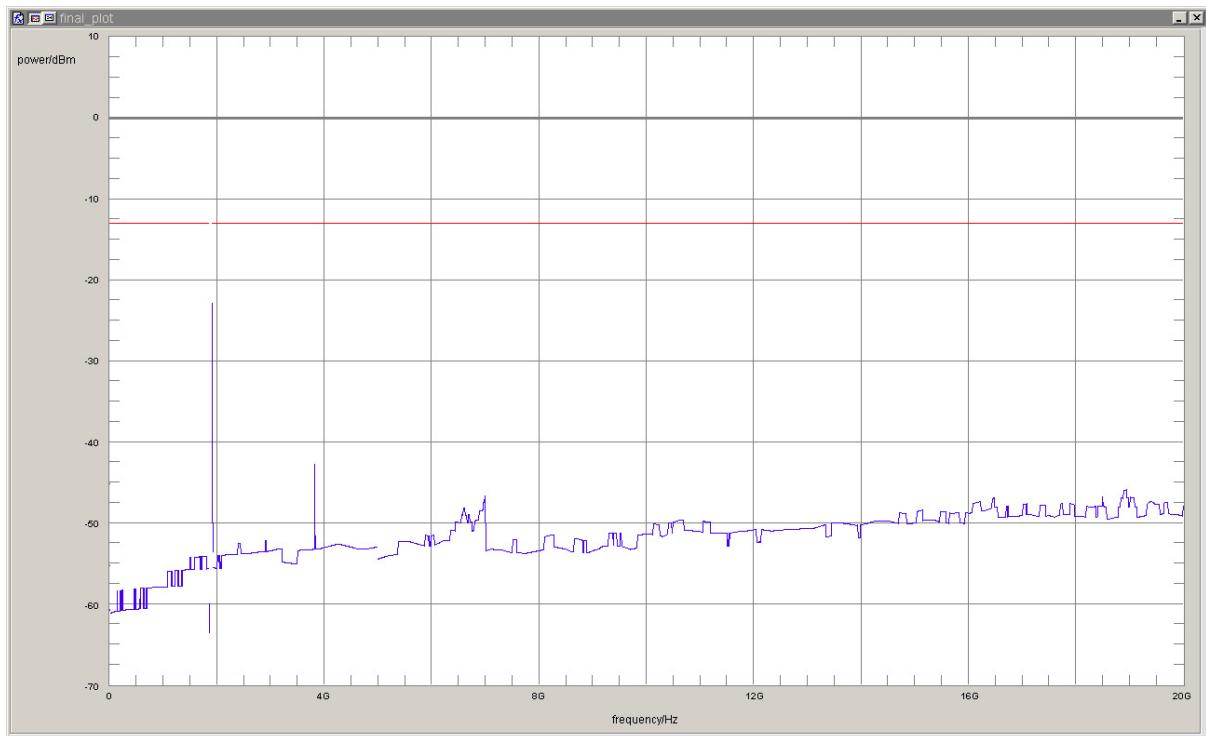
Result: Passed

Setup No.: B01\_direct

Date of Test: 2011/08/20 1:50

Body: FCC47CFRChIPART24PERSONAL COMMUNICATIONS SERVICES

Test Specification: FCC part 2 and 24

**Detailed Results:**


| detector | trace   | resolution bandwidth /kHz | frequency /MHz | peak value /dBm | margin to limit /dB | limit /dBm | verdict |
|----------|---------|---------------------------|----------------|-----------------|---------------------|------------|---------|
| rms      | maxhold | 50                        | 1910.03        | -31.5           | 18.5                | -13.0      | passed  |
| rms      | maxhold | 100                       | 1911.14        | -22.9           | 9.9                 | -13.0      | passed  |

no further values have been found with a margin of less than 20 dB