

## FCC Part 22/24/27 Compliance Test Report

|                                                        |                                                                                                                                                                                                                                                                                                                                                           |                            |                                                                                                                       |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Test Report no.:                                       | FCC22&24&27_RM-763_22.docx                                                                                                                                                                                                                                                                                                                                | Date of Report:            | 24-Aug-2011                                                                                                           |
| Number of pages:                                       | 14                                                                                                                                                                                                                                                                                                                                                        | Customer's Contact person: | Ramelli Bruno                                                                                                         |
| Testing laboratory:                                    | TCC Nokia Copenhagen Laboratory<br>Frederikskaj<br>1790 COPENHAGEN V<br>DENMARK<br>Tel. +45 33 292929<br>Fax. +45 33 292934                                                                                                                                                                                                                               | Customer:                  | Nokia Corporation<br>Lise Meitner Strasse 10<br>89081 ULM<br>GERMANY<br>Tel. +49 731 1754 0<br>Fax. +49 731 1754 6800 |
| FCC listing no.:                                       |                                                                                                                                                                                                                                                                                                                                                           |                            |                                                                                                                       |
| IC recognition no.:                                    |                                                                                                                                                                                                                                                                                                                                                           |                            |                                                                                                                       |
| Tested devices/<br>accessories:                        | Phone RM-763 / AC-Charger AC-8E / Battery BP-3L / Headset WH-102                                                                                                                                                                                                                                                                                          |                            |                                                                                                                       |
| FCC ID:                                                | PPIRM-763                                                                                                                                                                                                                                                                                                                                                 | IC:                        | 661U-RM763                                                                                                            |
| Supplement reports:                                    | -                                                                                                                                                                                                                                                                                                                                                         |                            |                                                                                                                       |
| Testing has been<br>carried out in<br>accordance with: | CFR 47, FCC rules Parts 22/24/27 , TIA-603-C-2004 and IC standards, RSS-GEN (Issue 3, December 2010), RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), RSS-139 (Issue 2, February 2009). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit". |                            |                                                                                                                       |
| Documentation:                                         | The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.                                                                                                      |                            |                                                                                                                       |
| Test Results:                                          | The EUT complies with the requirements in respect of all parameters subject to the test.<br>The test results relate only to devices specified in this document                                                                                                                                                                                            |                            |                                                                                                                       |
| Date and signature<br>for the contents:                |                                                                                                                                                                                                                                                                                                                                                           |                            |                                                                                                                       |

Ruben Hansen, System Manager, EMC

## 1. Summary for FCC Part 22/24/27 Compliance Test Report

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Date of receipt               | 08-Jan-2011                                        |
| Testing completed             | 22-Aug-2011                                        |
| The customer's contact person | Ramelli Bruno                                      |
| Test Plan referred to         | T:\Projects\RM-763\TestPlan\RS_testplan_RM-763.xls |
| Notes                         | -                                                  |
| Document name                 | T:\Projects\RM-763\EMC\FCC22&24&27_RM-763_22.docx  |

### 1.1. EUT and Accessory Information

The EUT is a 11-band mobile phone:

GSM850/900/1800/1900/GPRS/EGPRS/Monopole without GND reflector (GSM/WCDMA)

WCDMA I/II(1900)/IV(1700)/V(850)/VIII/HSDPA/HSUPA/Monopole without GND reflector (GSM/WCDMA)

WLAN/Bluetooth

The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

| Product    | Type   | SN                          | HW   | MV | SW                      | DUT   |
|------------|--------|-----------------------------|------|----|-------------------------|-------|
| Phone      | RM-763 | 004402136210782             | 0200 |    | Vp<br>ch104_11w2<br>8_1 | 25946 |
| AC-Charger | AC-8E  | 4090498425930401604;0675387 | -    | -  | -                       | 23727 |
| Battery    | BP-3L  | 3932131154140100772;0670635 | -    | -  | -                       | 23546 |
| Headset    | WH-102 | 06943231106m1R61563         | -    | -  | -                       | 23579 |

### 1.2. Summary of Test Results

#### GSM850:

| Section in CFR 47     | Section in RSS-GEN or RSS-132 | Name of the test                           | Result |
|-----------------------|-------------------------------|--------------------------------------------|--------|
| §2.1046(a), 22.913(a) | 4.4                           | Conducted RF output power                  | NP     |
| §22.913(a)            | 4.4                           | Radiated RF output power                   | NP     |
| §2.1049(h)            | 4.6.1                         | 99 % occupied bandwidth                    | PASSED |
| §22.917(a)            | 4.5                           | Band edge compliance                       | NP     |
| §22.917(a), §2.1051   | 4.5                           | Spurious emissions at antenna terminals    | NP     |
| §22.917(a), §2.1053   | 4.5                           | Spurious radiated emissions                | NP     |
| §2.1055(a)            | 4.3                           | Frequency stability, temperature variation | PASSED |
| §2.1055(d)            | 4.3                           | Frequency stability, voltage variation     | NP     |

#### WCDMA 850 (Band V):

| Section in CFR 47     | Section in RSS-GEN or RSS-132 | Name of the test                           | Result |
|-----------------------|-------------------------------|--------------------------------------------|--------|
| §2.1046(a), 22.913(a) | 4.4                           | Conducted RF output power                  | NP     |
| §22.913(a)            | 4.4                           | Radiated RF output power                   | NP     |
| §2.1049(h)            | 4.6.1                         | 99 % occupied bandwidth                    | PASSED |
| §22.917(a)            | 4.5                           | Band edge compliance                       | NP     |
| §22.917(a), §2.1051   | 4.5                           | Spurious emissions at antenna terminals    | NP     |
| §22.917(a), §2.1053   | 4.5                           | Spurious radiated emissions                | NP     |
| §2.1055(a)            | 4.3                           | Frequency stability, temperature variation | NP     |
| §2.1055(d)            | 4.3                           | Frequency stability, voltage variation     | NP     |

**GSM1900:**

| Section in CFR 47   | Section in RSS-GEN or RSS-133 | Name of the test                           | Result |
|---------------------|-------------------------------|--------------------------------------------|--------|
| §2.1046(a)          | 6.4                           | Conducted RF output power                  | NP     |
| §24.232(b)          | 6.4                           | Radiated RF output power                   | NP     |
| §2.1049(h)          | 4.6.1                         | 99 % occupied bandwidth                    | PASSED |
| §24.238(a)          | 6.5                           | Band edge compliance                       | NP     |
| §24.238(a), §2.1051 | 6.5                           | Spurious emissions at antenna terminals    | NP     |
| §24.238(a), §2.1053 | 6.5                           | Spurious radiated emissions                | NP     |
| §2.1055(a)          | 6.3                           | Frequency stability, temperature variation | PASSED |
| §2.1055(d)          | 6.3                           | Frequency stability, voltage variation     | NP     |

**WCDMA 1900 (Band II):**

| Section in CFR 47   | Section in RSS-GEN or RSS-133 | Name of the test                           | Result |
|---------------------|-------------------------------|--------------------------------------------|--------|
| §2.1046(a)          | 6.4                           | Conducted RF output power                  | NP     |
| §24.232(b)          | 6.4                           | Radiated RF output power                   | NP     |
| §2.1049(h)          | 4.6.1                         | 99 % occupied bandwidth                    | PASSED |
| §24.238(a)          | 6.5                           | Band edge compliance                       | NP     |
| §24.238(a), §2.1051 | 6.5                           | Spurious emissions at antenna terminals    | NP     |
| §24.238(a), §2.1053 | 6.5                           | Spurious radiated emissions                | NP     |
| §2.1055(a)          | 6.3                           | Frequency stability, temperature variation | NP     |
| §2.1055(d)          | 6.3                           | Frequency stability, voltage variation     | NP     |

**WCDMA 1700 (Band IV):**

| Section in CFR 47   | Section in RSS-GEN or RSS-139 | Name of the test                           | Result |
|---------------------|-------------------------------|--------------------------------------------|--------|
| §2.1046(a)          | 6.4                           | Conducted RF output power                  | NP     |
| §27.50(d)(2)        | 6.4                           | Radiated RF output power                   | NP     |
| §2.1049(h)          | 4.6.1                         | 99 % occupied bandwidth                    | PASSED |
| §27.53(g)           | 6.5                           | Band edge compliance                       | NP     |
| §27.53(g), §2.1051  | 6.5                           | Spurious emissions at antenna terminals    | NP     |
| §24.238(a), §2.1053 | 6.5                           | Spurious radiated emissions                | NP     |
| §2.1055(a)          | 6.3                           | Frequency stability, temperature variation | PASSED |
| §2.1055(d)          | 6.3                           | Frequency stability, voltage variation     | NP     |

PASSED

FAILED

NP

The EUT complies with the essential requirements in the standard.

The EUT does not comply with the essential requirements in the standard.

The test was not performed by the TCC Nokia Laboratory.

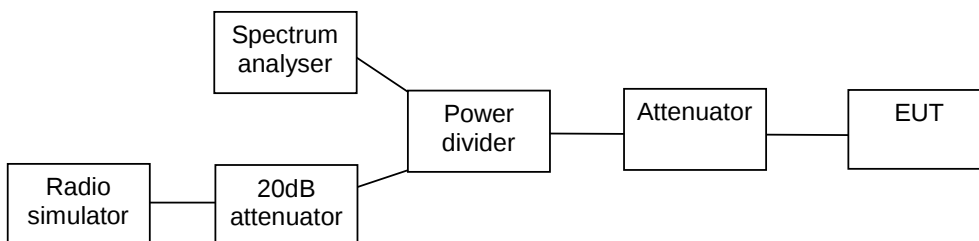
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## 2. 99% occupied bandwidth (FCC §2.1049(h), RSS-GEN 4.6.1)

|                                                 |                                                         |
|-------------------------------------------------|---------------------------------------------------------|
| EUT with DUT number                             | RM-763, DUT 25946                                       |
| Accessories with DUT numbers                    | AC-8E, DUT 23727 ; BP-3L, DUT 23546 ; WH-102, DUT 23579 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                                                |
| Results                                         | PASSED                                                  |
| Remarks                                         | None                                                    |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 25 / 45 / 101.6                                         |
| Date of measurements                            | 22-Aug-2011                                             |
| Measured by                                     | Ruben Hansen                                            |

### 2.1. Test Setup



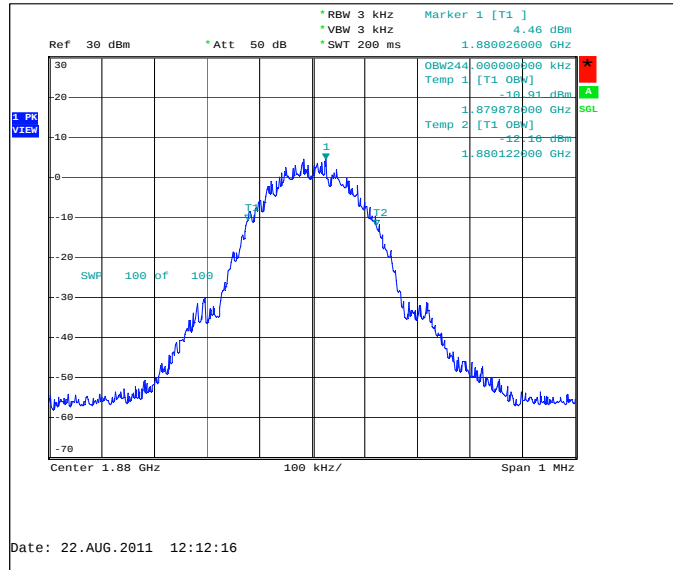
### 2.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24, 27 and IC standard RSS-GEN.

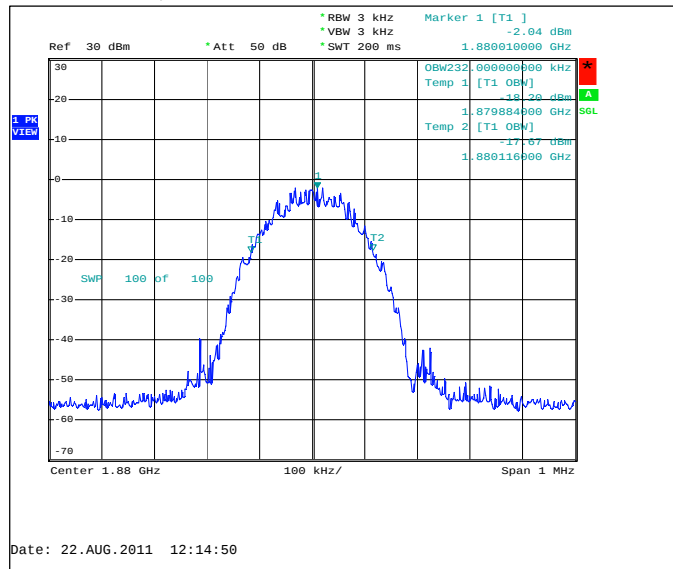
### 2.3. GSM 1900 Test results

| Operation mode (TX on) | 99% Occupied bandwidth [kHz] |
|------------------------|------------------------------|
| GSM                    | 244                          |
| GSM-E                  | 232                          |

GSM mode, channel 661 / 1880.0 MHz



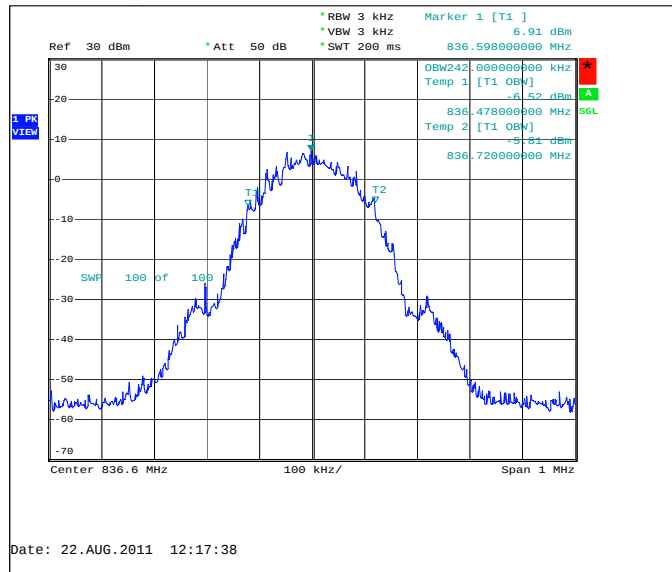
GSM-E mode, channel 661 / 1880.0 MHz



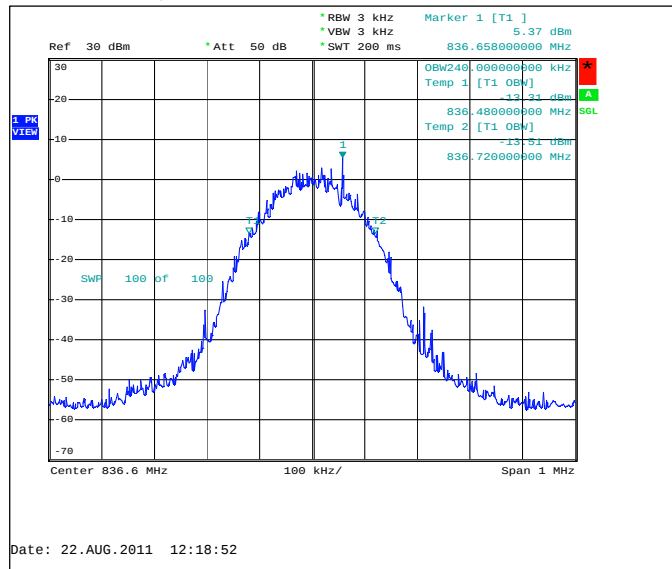
## 2.4. GSM 850 Test results

| Operation mode (TX on) | 99% Occupied bandwidth [kHz] |
|------------------------|------------------------------|
| GSM                    | 242                          |
| GSM-E                  | 240                          |

GSM mode, channel 190 / 836.6 MHz



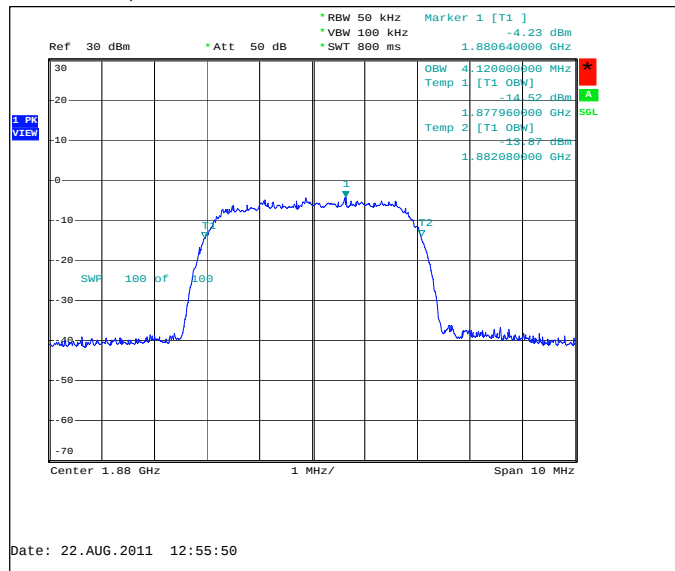
GSM-E mode, channel 190 / 836.6 MHz



## 2.5. WCDMA 1900 Test results

| Operation mode (TX on) | 99% Occupied bandwidth [kHz] |
|------------------------|------------------------------|
| FDD                    | 4120                         |

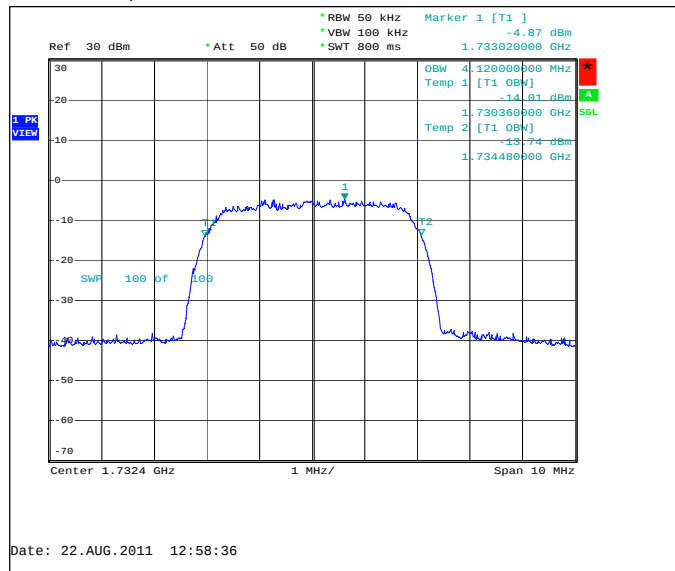
FDD mode, Channel 9400 / 1880.0 MHz



## 2.6. WCDMA 1700 Test results

| Operation mode (TX on) | 99% Occupied bandwidth [kHz] |
|------------------------|------------------------------|
| FDD                    | 4120                         |

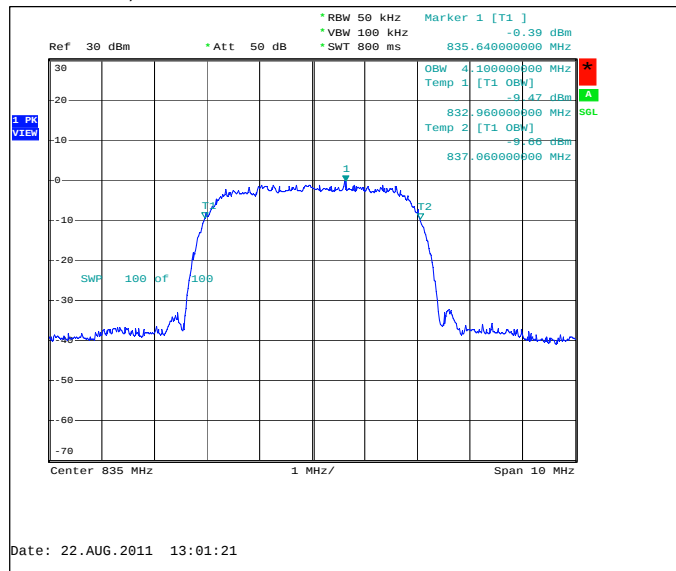
FDD mode, Channel 1412 / 1732.4 MHz



## 2.7. WCDMA 850 Test results

| Operation mode (TX on) | 99% Occupied bandwidth [kHz] |
|------------------------|------------------------------|
| FDD                    | 4100                         |

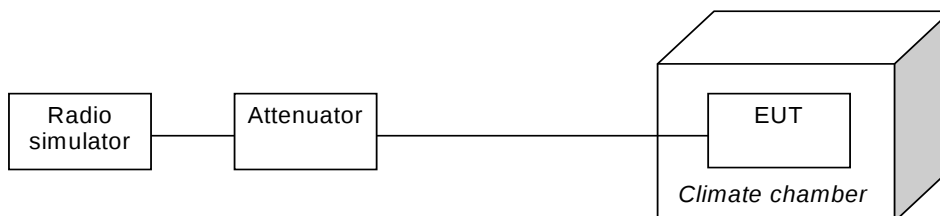
FDD mode, Channel 4175 / 835.0 MHz



### 3. Frequency stability, temperature variation (FCC §2.1055(a), §2.1055(a), §2.1055(a), RSS-132 4.3, RSS-133 6.3, RSS-139 6.3)

|                                                 |                                                         |
|-------------------------------------------------|---------------------------------------------------------|
| EUT with DUT number                             | RM-763, DUT 25946                                       |
| Accessories with DUT numbers                    | AC-8E, DUT 23727 ; BP-3L, DUT 23546 ; WH-102, DUT 23579 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                                                |
| Results                                         | PASSED                                                  |
| Remarks                                         | None                                                    |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 25 / 45 / 101.6                                         |
| Date of measurements                            | 22-Aug-2011                                             |
| Measured by                                     | Ruben Hansen                                            |

#### 3.1. Test Setup



#### 3.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24, 27 and IC standard RSS-132, RSS-133 and RSS-139 as follows:

The climate chamber temperature is set to the maximum value and the temperature is allowed to stabilize.  
 The EUT is placed in the chamber.  
 The EUT is set in idle mode for 15 minutes.  
 The EUT is set to transmit.  
 The transmit frequency error was measured immediately.  
 The steps c - e were repeated for each temperature. Limits for frequency stability, temperature variation measurements

| Frequency deviation [ppm] |
|---------------------------|
| +/- 2.5                   |

### 3.3. GSM 1900 Test results

GSM mode, channel 661 / 1880.0 MHz

| Temperature [°C] | Frequency [MHz] | Deviation [Hz] | Deviation [ppm] | Result  |
|------------------|-----------------|----------------|-----------------|---------|
| 50               | 1880            | -20.21         | -0.0108         | PASSED  |
| 40               | 1880            | -15.05         | -0.008          | PASSED  |
| 30               | 1880            | -11.11         | -0.0059         | PASSED  |
| 20               | 1880            | -12.14         | -0.0065         | PASSED  |
| 10               | 1880            | -21.31         | -0.0113         | PASSED  |
| 0                | 1880            | -17.76         | -0.0094         | PASSED  |
| -10              | 1880            | -8.85          | -0.0047         | PASSED  |
| -20              | 1880            | -10.78         | -0.0057         | PASSED  |
| -30              | 1880            |                |                 | EUT OFF |

### 3.4. GSM 850 Test results

GSM mode, channel 190 / 836.6 MHz

| Temperature [°C] | Frequency [MHz] | Deviation [Hz] | Deviation [ppm] | Result  |
|------------------|-----------------|----------------|-----------------|---------|
| 50               | 836.6           | -4.07          | -0.0049         | PASSED  |
| 40               | 836.6           | -13.88         | -0.0166         | PASSED  |
| 30               | 836.6           | -2.32          | -0.0028         | PASSED  |
| 20               | 836.6           | -5.04          | -0.006          | PASSED  |
| 10               | 836.6           | -6.33          | -0.0076         | PASSED  |
| 0                | 836.6           | -8.91          | -0.0107         | PASSED  |
| -10              | 836.6           | -7.04          | -0.0084         | PASSED  |
| -20              | 836.6           | -5.94          | -0.0071         | PASSED  |
| -30              | 836.6           |                |                 | EUT OFF |

### 3.5. WCDMA 1700 Test results

FDD mode, Channel 1412 / 1732.4 MHz

| Temperature [°C] | Frequency [MHz] | Deviation [Hz] | Deviation [ppm] | Result  |
|------------------|-----------------|----------------|-----------------|---------|
| 50               | 1732.4          | -3.93677       | -0.0023         | PASSED  |
| 40               | 1732.4          | -9.23157       | -0.0053         | PASSED  |
| 30               | 1732.4          | 3.78418        | 0.0022          | PASSED  |
| 20               | 1732.4          | 2.91443        | 0.0017          | PASSED  |
| 10               | 1732.4          | 7.04956        | 0.0041          | PASSED  |
| 0                | 1732.4          | -3.14331       | -0.0018         | PASSED  |
| -10              | 1732.4          | 2.83814        | 0.0016          | PASSED  |
| -20              | 1732.4          | -1             | -0.0006         | PASSED  |
| -30              | 1732.4          |                |                 | EUT OFF |

## 4. Test Equipment

### 4.1. Conducted measurements

| Eq. No | Equipment                                      | Type         | Manufacturer   | Used in            |
|--------|------------------------------------------------|--------------|----------------|--------------------|
| 13037  | Power Supply 0-15V 10A                         | EA3012       | LP Instruments | 15C, 15B           |
| 13357  | Signal Generator                               | SMP02        | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 13513  | Pulse Limiter                                  | ESH3Z2       | Rohde&Schwarz  | 15C, 15B           |
| 13666  | Receiver                                       | ESPC         | Rohde&Schwarz  | 15C, 15B           |
| 13935  | LISN                                           | ESH3-Z5      | Rohde&Schwarz  | 15C, 15B           |
| 20682  | LISN                                           | ESH3-Z5      | Rohde&Schwarz  | 15C, 15B           |
| 16601  | Communication Tester                           | CMU200       | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 16995  | Directional Coupler 20dB 0,5-2,0 GHz SMA Conn. | 1538RA-20    | Weinschel      | 15C, 15B           |
| 18772  | Shielded Chamber                               | RFD-100      | ETS-Lindgren   | 15C, 15B           |
| 18772  | Shielded Chamber                               | RFD-100      | ETS-Lindgren   | 15C, 15B           |
| 19116  | Power splitter                                 | -            | various        | 22/24/27, 15C, 15B |
| 19171  | Communication Tester                           | CMU200       | Rohde&Schwarz  | 15C, 15B           |
| 19625  | Climatic Chamber                               | VT4002EMC    | Vötsch         | 22/24/27, 15C, 15B |
| 19678  | Spectrum Analyzer                              | FSP          | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 20168  | Bluetooth Tester                               | CBT          | Rohde&Schwarz  | 22/24/27, 15C, 15B |
| 20543  | UPS. 700V/A 490W                               | PW 9120 700i | Powerware      | 22/24/27, 15C, 15B |
| 20544  | Transformer. 230/115V                          | -            | Nokia          | 22/24/27, 15C, 15B |
| 20739  | Communication Tester                           | CMU200       | Rohde&Schwarz  | 15C, 15B           |

### 4.2. Radiated measurements

| Eq. No | Equipment                                     | Type                   | Manufacturer           | Used in            |
|--------|-----------------------------------------------|------------------------|------------------------|--------------------|
| 13077  | Power Supply                                  | EA-3016                | -                      | 22/24/27, 15C, 15B |
| 13799  | Signal Generator                              | SMP02                  | Rohde&Schwarz          | 22/24/27, 15C, 15B |
| 13936  | Band reject filter                            | WRCD1747.5-0.2/40-10SS | Wainwright Instruments | 22/24/27, 15C, 15B |
| 13937  | Band reject filter                            | WRCA902.4-0.2/40-6SS   | Wainwright Instruments | 22/24/27, 15C, 15B |
| 14021  | Relay Dual 6 Chnl $\mu$ Wave Mux              | 10-785-522             | -                      | 22/24/27, 15C, 15B |
| 14114  | Highpass Filter                               | WHK1000-12SS           | Wainwright Instruments | 22/24/27, 15C, 15B |
| 14187  | Band reject filter                            | WRCD1747.5-0.2/40-10SS | Wainwright             | 22/24/27, 15C, 15B |
| 14188  | Band reject filter                            | WRCA902.4-0.2/40-6SS   | Wainwright             | 22/24/27, 15C, 15B |
| 14900  | Antenna Controller                            | HD100                  | HD GmbH                | 22/24/27, 15C, 15B |
| 15191  | Turntable Controller Unit                     | G-800SDX               | YAESU                  | 22/24/27, 15C, 15B |
| 15742  | Programmable Relay Switching System           | -----                  | Pickering              | 22/24/27, 15C, 15B |
| 16633  | Band reject filter                            | WRCD1880.0-0.2/40-10SS | Wainwright             | 22/24/27, 15C, 15B |
| 16948  | Dual 6 Channel MUX Microwave Relay SMA 50 Ohm | 10-785-522             | Pickering              | 22/24/27, 15C, 15B |
| 16949  | Dual 6 Channel MUX Microwave Relay SMA 50 Ohm | 10-785-522             | Pickering              | 22/24/27, 15C, 15B |
| 17644  | Dual 6 Channel MUX Microwave Relay SMA 50 Ohm | 10-785-522             | Pickering              | 22/24/27, 15C, 15B |
| 18416  | Communication Tester                          | CMU200                 | Rohde&Schwarz          | 22/24/27, 15C, 15B |
| 18773  | Anechoic chamber                              | RFD-100                | ETS-Lindgren           | 22/24/27, 15C, 15B |
| 18774  | Anechoic chamber                              | RFSD-F/A-100           | ETS-Lindgren           | 22/24/27, 15C, 15B |

| Eq. No | Equipment                        | Type                            | Manufacturer  | Used in            |
|--------|----------------------------------|---------------------------------|---------------|--------------------|
| 18792  | Mast/turntable controller        | 2090                            | ETS-EMCO      | 22/24/27, 15C, 15B |
| 18860  | Antenna                          | HL562                           | Rohde&Schwarz | 22/24/27, 15C, 15B |
| 19151  | High Pass Filter                 | WHJS3000-10SS                   | Wainwright    | 22/24/27, 15C, 15B |
| 19587  | Band reject filter               | WRCG2400/2483-2390/2493-35/10SS | Wainwright    | 22/24/27, 15C, 15B |
| 19966  | Antenna                          | HFH2-Z2                         | Rohde&Schwarz | 15C, 15B           |
| 20078  | Relay 2x6 Chnl $\mu$ Wave Mux    | 10-785B-522                     | Pickering     | 22/24/27, 15C, 15B |
| 20114  | Band reject filter               | WRCG1737/1743-1733/1747-40/6SS  | Wainwright    | 22/24/27, 15C, 15B |
| 20115  | Band reject filter               | -                               | Wainwright    | 22/24/27, 15C, 15B |
| 20116  | Band reject filter               | WRCG832/83/-825/845-40/5SS      | Wainwright    | 22/24/27, 15C, 15B |
| 20168  | Bluetooth Tester                 | CBT                             | Rohde&Schwarz | 22/24/27, 15C, 15B |
| 20543  | UPS. 700V/A 490W                 | PW 9120 700i                    | Powerware     | 22/24/27, 15C, 15B |
| 20544  | Transformer. 230/115V            | -                               | Nokia         | 22/24/27, 15C, 15B |
| 20698  | Antenna                          | BBHA 9120 D                     | SCHWARZBECK   | 22/24/27, 15C, 15B |
| -      | Relay Dual 6 Chnl $\mu$ Wave Mux | 10-785-522                      | -             | 22/24/27, 15C, 15B |