

## FCC Part 15B Compliance Test Report

|                                                         |                                                                                                                                                                                                                                                                                                                                                   |                                   |                                                                                                                                      |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Report no.:</b>                                 | Cph_FCC_0803_04.doc                                                                                                                                                                                                                                                                                                                               | <b>Date of Report:</b>            | 22-Jan-2008                                                                                                                          |
| <b>Number of pages:</b>                                 | 9                                                                                                                                                                                                                                                                                                                                                 | <b>Customer's Contact person:</b> | Lasse Vaattovaara                                                                                                                    |
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| <b>FCC listing no.:</b>                                 | 99059                                                                                                                                                                                                                                                                                                                                             |                                   |                                                                                                                                      |
| <b>IC recognition no.:</b>                              | 661AD-1                                                                                                                                                                                                                                                                                                                                           |                                   |                                                                                                                                      |
| <b>Tested devices/ accessories:</b>                     | <b>Phone; RM-357 (HW 0513), Battery; BP-4L, AC-Charger; AC-5E, Headset; HS-47</b>                                                                                                                                                                                                                                                                 |                                   |                                                                                                                                      |
| <b>FCC ID:</b>                                          | PYARM-357                                                                                                                                                                                                                                                                                                                                         | <b>IC:</b>                        | 661V-RM357                                                                                                                           |
| <b>Supplement reports:</b>                              |                                                                                                                                                                                                                                                                                                                                                   |                                   |                                                                                                                                      |
| <b>Testing has been carried out in accordance with:</b> | <b>CFR 47, FCC rules Part 15 Subpart B, ANSI C63.4 (2003), ICES-003, CISPR 22 and IC standards RSS-132 (Issue 2, September 2005), RSS-133 (Issue 3, June 2005) and RSS-210 (Issue 7, June 2007). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".</b> |                                   |                                                                                                                                      |
| <b>Documentation:</b>                                   | 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.                                                                                              |                                   |                                                                                                                                      |
| <b>Test Results:</b>                                    | <b>The EUT complies with the requirements in respect of all parameters subject to the test.</b><br>The test results relate only to devices specified in this document.                                                                                                                                                                            |                                   |                                                                                                                                      |
| <b>Date and signature for the contents:</b>             |                                                                                                                                                                                                                                                                                                                                                   |                                   |                                                                                                                                      |

Niels Christian Andersen, Engineer

## 1. Summary for FCC Part 15B Compliance Test Report

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Date of receipt               | 21-Dec-2007                                            |
| Testing completed             | 16-Jan-2008                                            |
| The customer's contact person | Lasse Vaattovaara                                      |
| Test Plan referred to         | T:\Projects\RM-357\TestPlan_RS\RS_Testplan_RM-357.xls  |
| Notes                         | None                                                   |
| Document name                 | T:\Projects\RM-357\EMC\Results\FCC\Cph_FCC_0803_04.doc |

### 1.1. EUT and Accessory Information

The EUT is a 6-band (GSM850/900/1800/1900 and WCDMA Band II(1900)/V(850)) mobile phone with GPRS, EGPRS, Bluetooth and WLAN. GSM and WCDMA bands are tested in idle mode. Bluetooth and WLAN are tested with maximum rated TX power.

| Product    | Type   | SN                          | HW   | MV | SW       | DUT   |
|------------|--------|-----------------------------|------|----|----------|-------|
| Phone      | RM-357 | 004401/01/6086999           | 0513 | -  | 007.45.3 | 29240 |
| Battery    | BP-4L  | 3932137304110226167;0670519 | -    | -  | -        | 29241 |
| AC-Charger | AC-5E  | 3943497311090609035;0675540 | -    | -  | -        | 27158 |
| Headset    | HS-47  | 06945797 13322602567        | -    | -  | -        | 29242 |

### 1.2. Summary of Test Results

#### GSM 850:

| Section in CFR 47 | Section in ICES-003 (RSS-132) | Name of the test                 | Result |
|-------------------|-------------------------------|----------------------------------|--------|
| 15.107, a         | 5.3                           | AC powerline conducted emissions | NP     |
| 15.109, a         | 5.5 (6.6)                     | Radiated emissions               | Passed |

#### GSM 1900:

| Section in CFR 47 | Section in ICES-003 (RSS-133) | Name of the test                 | Result |
|-------------------|-------------------------------|----------------------------------|--------|
| 15.107, a         | 5.3                           | AC powerline conducted emissions | NP     |
| 15.109, a         | 5.5 (9)                       | Radiated emissions               | Passed |

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 Copenhagen Laboratory.

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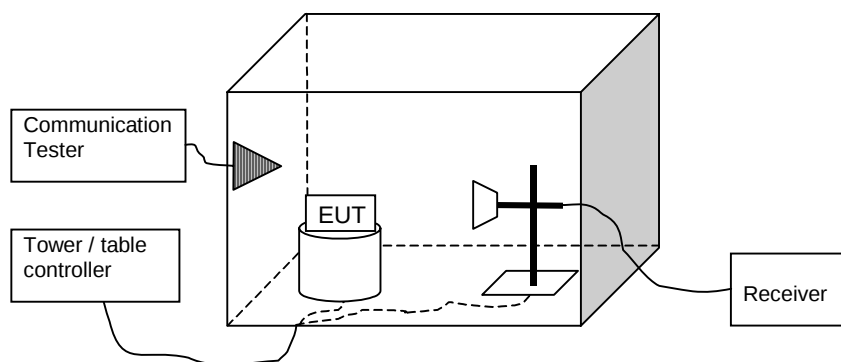
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## 2. Radiated emissions

(FCC §15.109, ICES-003 section 5.5, RSS-132 6.6, RSS-133 9)

|                                                        |                                                                        |
|--------------------------------------------------------|------------------------------------------------------------------------|
| <b>EUT with DUT number</b>                             | RM-357 DUT 29240                                                       |
| <b>Accessories with DUT numbers</b>                    | BP-4L DUT 29241, AC-5E DUT 27158, HS-47 DUT 29242                      |
| <b>Operation Voltage [V] / [Hz]</b>                    | 115 / 60                                                               |
| <b>Result</b>                                          | Passed                                                                 |
| <b>Remarks</b>                                         | In GSM850 FM Radio receiver active and in GSM1900 GPS receiver active. |
| <b>Temp [°C] / Humidity [%RH] / Air Pressure [kPa]</b> | 21 / 40 / 98.9                                                         |
| <b>Date of measurements</b>                            | 16-Jan-2008                                                            |
| <b>Measured by</b>                                     | Christian Andersen                                                     |

### 2.1. Test setup



### 2.2. Test method and limit

The measurement is made according to ANSI C63.4-2003as follows:

The measurement is performed in the Semi-Anechoic Chamber with conducting metal floor.

The measurement distance is 3 m.

The EUT is placed on a nonconductive plate at 80 cm height.

For each suspected frequency, the turntable is rotated 360 degrees and antenna is scanned from 1 to 4 m. This is repeated for both horizontal and vertical receive antenna polarizations.

The emissions less than 20 dB below the permissible value are reported.

The measurement results are obtained as described below:

$$E [\mu\text{V/m}] = U_{RX} + A_{TOT}$$

Where  $U_{RX}$  is receiver reading and  $A_{TOT}$  is total correction factor including cable loss, antenna factor and preamplifier gain ( $A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$ ).

CISPR 22 and FCC Part 15 Class B limits (3 m measurement distance)

| Frequency range [MHz] | Quasi peak limit [dBμV/m] | Average limit [dBμV/m] | Peak limit [dBμV/m] |
|-----------------------|---------------------------|------------------------|---------------------|
| 30 – 230              | 40                        | -                      | -                   |
| 230 – 1000            | 47                        | -                      | -                   |
| Above 1000            | -                         | 54                     | 74                  |

### 2.3. GSM 850 Test results

RX mode, channel 128 / 869.2 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3476.800000     | 36.70      | 68.39    | 38.90                  | -2.2                  | VERTICAL     | Passed |
| 6953.600000     | 44.20      | 162.18   | 38.10                  | 6.1                   | HORIZONTAL   | Passed |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3476.800000     | 24.00      | 15.85    | 26.20                  | -2.2                  | VERTICAL     | Passed |
| 6953.600000     | 31.00      | 35.48    | 24.90                  | 6.1                   | VERTICAL     | Passed |

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 30.200000       | 31.00      | 35.48    | 37.90                  | -6.9                  | VERTICAL     | Passed |
| 42.524048       | 26.50      | 21.13    | 41.40                  | -14.9                 | VERTICAL     | Passed |
| 55.890982       | 22.20      | 12.88    | 46.20                  | -24.0                 | VERTICAL     | Passed |
| 98.056112       | 46.30      | 206.54   | 66.20                  | -19.9                 | HORIZONTAL   | Passed |
| 881.663527      | 53.60      | 478.63   | 59.50                  | -5.9                  | VERTICAL     | Passed |

\*98 MHz frequency is coming from FM Radio tester and thus ignored.

\*881.66 MHz frequency is coming from communication tester and thus ignored.

Peak (RBW: 1 MHz, VBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 2982.965932     | 53.20      | 457.09   | 41.50                  | 11.7                  | VERTICAL     | Passed |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 2982.465932     | 40.30      | 103.51   | 28.70                  | 11.6                  | VERTICAL     | Passed |
| 3528.556112     | 23.60      | 15.14    | 25.90                  | -2.3                  | VERTICAL     | Passed |

RX mode, channel 251 / 893.8 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3575.200000     | 36.80      | 69.18    | 38.60                  | -1.8                  | VERTICAL     | Passed |
| 7150.400000     | 40.30      | 103.51   | 33.30                  | 7.0                   | VERTICAL     | Passed |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3575.200000     | 24.10      | 16.03    | 25.90                  | -1.8                  | VERTICAL     | Passed |
| 7150.400000     | 27.60      | 23.99    | 20.60                  | 7.0                   | VERTICAL     | Passed |

## 2.4. GSM 1900 Test results

RX mode, channel 512 / 1930.2 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3860.000000     | 38.60      | 85.11    | 38.90                  | -0.3                  | VERTICAL     | Passed |
| 7720.000000     | 41.60      | 120.23   | 33.10                  | 8.5                   | VERTICAL     | Passed |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3860.000000     | 26.00      | 19.95    | 26.30                  | -0.3                  | VERTICAL     | Passed |
| 7720.000000     | 28.60      | 26.92    | 20.10                  | 8.5                   | VERTICAL     | Passed |

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 120 kHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 37.635872       | 33.00      | 44.67    | 44.70                  | -11.7                 | VERTICAL     | Passed |
| 49.319439       | 15.50      | 5.96     | 35.10                  | -19.6                 | VERTICAL     | Passed |
| 57.414830       | 18.90      | 8.81     | 43.40                  | -24.5                 | HORIZONTAL   | Passed |
| 163.826453      | 9.40       | 2.95     | 30.40                  | -21.0                 | HORIZONTAL   | Passed |
| 958.515832      | 22.10      | 12.74    | 27.30                  | -5.2                  | HORIZONTAL   | Passed |

Peak (RBW: 1 MHz, VBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 1959.919840     | 68.20      | 2570.40  | 64.80                  | 3.4                   | VERTICAL     | Passed |

\*1959.9 MHz frequency is coming from communication tester and thus ignored.

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 1959.919840     | 67.30      | 2317.39  | 63.90                  | 3.4                   | VERTICAL     | Passed |
| 2983.965932     | 40.30      | 103.51   | 28.60                  | 11.7                  | VERTICAL     | Passed |

\*1959.9 MHz frequency is coming from communication tester and thus ignored.

RX mode, channel 810 / 1989.8 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3980.000000     | 38.20      | 81.28    | 38.60                  | -0.4                  | VERTICAL     | Passed |
| 7960.000000     | 42.30      | 130.32   | 33.20                  | 9.1                   | VERTICAL     | Passed |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3980.000000     | 25.70      | 19.28    | 26.10                  | -0.4                  | VERTICAL     | Passed |
| 7960.000000     | 29.00      | 28.18    | 19.90                  | 9.1                   | VERTICAL     | Passed |

### 3. Test Equipment

#### 3.1. Conducted measurements

| Eq. No | Equipment                                      | Type      | Manufacturer    | Used in            |
|--------|------------------------------------------------|-----------|-----------------|--------------------|
| 13037  | Power Supply 0-15V 10A                         | EA3012    | LP Instruments  | 15C, 15B           |
| 13513  | Pulse Limiter 9KHz-30MHz                       | ESH3Z2    | Rohde&Schwarz   | 15C, 15B           |
| 13666  | EMI Test Reciever 9KHz-2,5GHz                  | ESPC      | Rohde&Schwarz   | 15C, 15B           |
| 13935  | Two Lines Artificial Mains Network             | ESH3-Z5   | Rohde&Schwarz   | 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           |
| 19171  | Universal Radio Communication Tester           | CMU200    | Rohde&Schwarz   | 15C, 15B           |
| 11386  | System DC Power Supply                         | HP6632A   | Hewlett Packard | 22/24/27, 15C, 15B |
| 19678  | Spectrum Analyzer 26 GHz                       | FSP       | Rohde&Schwarz   | 22/24/27, 15C, 15B |
| 16601  | Universal Radio Communication Tester           | CMU200    | Rohde&Schwarz   | 22/24/27, 15C, 15B |
| 19625  | Vötsch Climatic Chamber                        | VT4002EMC | Vötsch          | 22/24/27, 15C, 15B |
| 13357  | Rohde & Schwartz Signal Generator              | SMP02     | Rohde&Schwarz   | 22/24/27, 15C, 15B |
| 20168  | Bluetooth EDR Tester                           | CBT       | Rohde&Schwarz   | 22/24/27, 15C, 15B |

#### 3.2. Radiated measurements

| Eq. No | Equipment                                      | Type          | Manufacturer  | Used in            |
|--------|------------------------------------------------|---------------|---------------|--------------------|
| 18416  | Universal Radio Communication Tester           | CMU200        | Rohde&Schwarz | 22/24/27, 15C, 15B |
|        | Programmable Relay Switching System            | -----         | Pickering     | 22/24/27, 15C, 15B |
| 15742  | Programmable Relay Switching System            | -----         | Pickering     | 22/24/27, 15C, 15B |
| 14020  | Power Supply Module Relay Switching System 45W | 10-910-002    | Pickering     | 22/24/27, 15C, 15B |
| 15743  | Power Supply Module Relay Switching System 50W | 10-910L-001   | Pickering     | 22/24/27, 15C, 15B |
| 16490  | RS-232/IEEE-488.2 Interface                    | 10-921-001    | Pickering     | 22/24/27, 15C, 15B |
|        | RS-232/IEEE-488.2 Interface                    | 10-921-001    | Pickering     | 22/24/27, 15C, 15B |
| 20078  | Relay 2x6 Chnl µWave Mux                       | 10-785B-522   | Pickering     | 22/24/27, 15C, 15B |
| 14021  | Relay Dual 6 Chnl µWave Mux                    | 10-785-522    |               | 22/24/27, 15C, 15B |
|        | Relay Dual 6 Chnl µWave Mux                    | 10-785-522    |               | 22/24/27, 15C, 15B |
| 17644  | Dual 6 Channel MUX Microwave Relay SMA 50 Ohm  | 10-785-522    | Pickering     | 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 |
| 18792  | Multi Device Controller                        | 2090          | ETS-EMCO      | 22/24/27, 15C, 15B |
| 14963  | RF Preamplifier 100MHz-4GHz (Metal Chassis)    | AFS3-00100400 | Miteq/NMP Cph | 22/24/27, 15C, 15B |
| 18861  | EMI Test Receiver 20Hz-26,5GHz                 | ESI           | Rohde&Schwarz | 22/24/27, 15C, 15B |
| 20335  | Ultra Broadband Antenna Ultralog 30-3000MHz    | HL562         | Rohde&Schwarz | 22/24/27, 15C, 15B |
| 18773  | Shielded Chamber                               | RFD-100       | ETS-Lindgren  | 22/24/27, 15C, 15B |
| 18774  | Shielded Chamber                               | RFSD-F/A-100  | ETS-Lindgren  | 22/24/27, 15C, 15B |
| 19151  | High Pass Filter 3GHz                          | WHJS3000-10SS | Wainwright    | 22/24/27, 15C, 15B |

| Eq. No | Equipment                                   | Type                            | Manufacturer           | Used in            |
|--------|---------------------------------------------|---------------------------------|------------------------|--------------------|
|        | WHK3.0/18G-10ss                             |                                 |                        |                    |
| 13937  | Ultra Stable Notch Filter 850MHz            | WRCA902.4-0.2/40-6SS            | Wainwright Instruments | 22/24/27, 15C, 15B |
| 13936  | Ultra Stable Notch Filter 1747,5MHz         | WRCD1747.5-0.2/40-10SS          | Wainwright Instruments | 22/24/27, 15C, 15B |
| 14114  | Highpass filter                             | WHK1000-12SS                    | Wainwright Instruments | 22/24/27, 15C, 15B |
| 14188  | Ultra Stable Notch Filter 902,4MHz          | WRCA902.4-0.2/40-6SS            | Wainwright             | 22/24/27, 15C, 15B |
| 14187  | Ultra Stable Notch Filter 1747,5MHz         | WRCD1747.5-0.2/40-10SS          | Wainwright             | 22/24/27, 15C, 15B |
| 16633  | Ultra Stable Notch Filter 1880,0MHz         | WRCD1880.0-0.2/40-10SS          | Wainwright             | 22/24/27, 15C, 15B |
| 19587  | BT/WLAN Band Reject Filter                  | WRCG2400/2483-2390/2493-35/10SS | Wainwright             | 22/24/27, 15C, 15B |
| 20115  | WDCMA Band 2 filter                         |                                 | Wainwright             | 24, 15C, 15B       |
| 20114  | WDCMA Band 4 filter                         | WRCG1737/1743-1733/1747-40/6SS  | Wainwright             | 27, 15C, 15B       |
| 20116  | WDCMA Band 5&6 filter                       | WRCG832/83/-825/845-40/5SS      | Wainwright             | 22, 15C, 15B       |
| 18323  | Band reject filter 1947-1953MHz 40dB        | WRCG1947/1953-1940/1960-40/6SS  | Wainwright             | 22/24/27, 15C, 15B |
| 20031  | Double Ridged Broadband Horn                | BBHA 9120 D                     | SCHWARZBECK            | 22/24/27, 15C, 15B |
| 19966  | Magnetic Loop Antenna 9 kHz - 30 MHz        | HFH2-Z2                         | Rohde&Schwarz          | 15C, 15B           |
| 14993  | EMI Test Receiver 9KHz-2750MHz              | ESCS30                          | Rohde&Schwarz          | 22/24/27, 15C, 15B |
| 15191  | Turntable Contoller Unit                    | G-800SDX                        | YAESU                  | 22/24/27, 15C, 15B |
| 14900  | Antenna Controller                          | HD100                           | HD GmbH                | 22/24/27, 15C, 15B |
| 19374  | Resonant Dipole Antenna 850MHz SMA m Conn.  | -----                           | NMP Cph                | 22/24/27, 15C, 15B |
| 19375  | Resonant Dipole Antenna 1900MHz SMA m Conn. | -----                           | NMP Cph                | 22/24/27, 15C, 15B |
| 20168  | Bluetooth EDR Tester                        | CBT                             | Rohde&Schwarz          | 22/24/27, 15C, 15B |