# FCC Part 15B Compliance Test Report

| | | | |
|---|---|---|---|
| **Test Report no.:** | FCC15B_RM-699_02.doc | **Date of Report:** | 19-Nov-2010 |
| **Number of pages:** | 11 | **Customer's Contact person:** | Shao Xu |
| **Testing laboratory:** | TCC Nokia Beijing Laboratory<br>Beijing Economic and<br>Technological Development Area<br>No.5 Donghuan Zhonglu<br>Beijing<br>PRC China 100176<br>Tel. +86 10 8711 8888<br>Fax. +86 10 8711 4550 | **Customer:** | Nokia Corporation<br>Frederikskaj<br>1790 COPENHAGEN V<br>DENMARK<br>Tel. +45 33 292929<br>Fax. +45 33 292934 |
| **FCC listing no.:**<br>**IC recognition no.:** | 975940<br>661AH-1 | | |
| **Tested devices/ accessories:** | **Phone RM-699 / Battery BL-4D / AC-charger AC-8E / Headset WH-102** | | |
| **FCC ID:** | QTKRM-699 | **IC:** | 661AD-RM699 |
| **Supplement reports:** | - | | |
| **Testing has been carried out in accordance with:** | **CFR 47, FCC rules Part 15 Subpart B, ANSI C63.4 (2003), ICES-003, CISPR 22, RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), 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".** | | |
| **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 for the contents:** | Digitally signed by Anni Manninen<br>DN: cn=Anni Manninen, c=FI, o=Nokia, ou=CertMT, email=ext-anni.manninen@nokia.com<br>Date: 2010.11.19 16:18:24 +02'00' | | |

**Anni Manninen, Test Engineer**

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

| | |
|---|---|
| **Date of receipt** | 01-Apr-2010 |
| **Testing completed** | 19-Apr-2010 |
| **The customer's contact person** | Shao Xu |
| **Test Plan referred to** | T:\Projects\Projects\RM-632\TestPlan\RS_testplan_RM-632.xls |
| **Notes** | - |
| **Document name** | FCC15B_RM-632_09.doc |

## 1.1. EUT and Accessory Information

The EUT is a 7-band (GSM850/900/1800/1900) and WCDMA Band (I/II(1900)/VIII) mobile phone with GPRS, EGPRS, HSDPA, HSUPA and WLAN and Bluetooth.

| Product | Type | SN | HW | MV | SW | DUT |
|---|---|---|---|---|---|---|
| Phone | RM-632 | 004401109337705 | 0200B | - | 041.007 RD | 51629 |
| Battery | BL-4D | 4181579161001101133;0670603 | - | - | - | 51399 |
| AC-charger | AC-8E | 4868679464320602195;0675387 | - | - | - | 51633 |
| Headset | WH-102 | 0694323923554107290 | - | - | - | 51587 |

## 1.2. Summary of Test Results

**GSM850:**

| 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 (4.6) | Radiated emissions | PASSED |

**GSM1900:**

| 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 (6.6) | Radiated emissions | PASSED |

**Bluetooth:**

| Section in CFR 47 | Section in ICES-003 (RSS-139) | Name of the test | Result |
|---|---|---|---|
| 15.107, a | 5.3 | AC powerline conducted emissions | NP |
| 15.109, a | 5.5 (6.6) | Radiated emissions | NP |

**WLAN:**

| Section in CFR 47 | Section in ICES-003 (RSS-139) | 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 |

| | |
|---|---|
| PASSED | The EUT complies with the essential requirements in the standard. |
| FAILED | The EUT does not comply with the essential requirements in the standard. |
| NP | The test was not performed by the TCC Nokia Laboratory. |



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*The test results of RM-632 are re-used for certification of the RM-699 The table above indicates the results, which will be re-used.*




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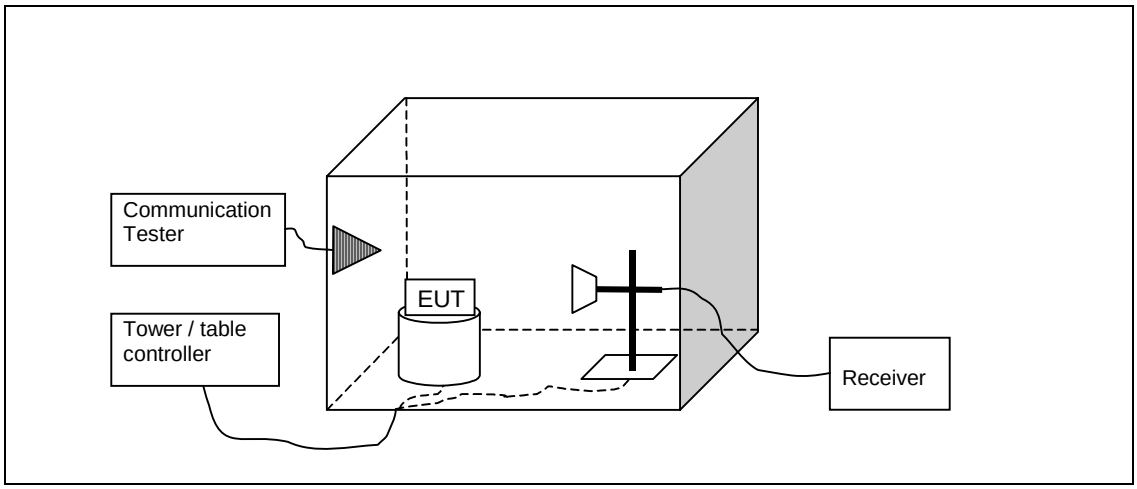
# 2. Radiated emissions

**(FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6)**

| | |
|---|---|
| **EUT with DUT number** | RM-632, DUT 51629 |
| **Accessories with DUT numbers** | BL-4D, DUT 51399 ; AC-8E, DUT 51633 ; WH-102, DUT 51587 |
| **Operation Voltage [V] / [Hz]** | 115 / 60 |
| **Results** | PASSED |
| **Remarks** | FM radio was receiving 98MHz signal during GSM850 and GSM1900 measurement. |
| **Temp [°C] / Humidity [%RH] / Air Pressure [kPa]** | 20 / 33 / 101.1 |
| **Date of measurements** | 19-Apr-2010 |
| **Measured by** | Jia Dongsheng |

## 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.



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The measurement results are obtained as described below:

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

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

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

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



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## 2.3. GSM850 Test results

RX mode, channel 128 / 869.2 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3477.4 | 40.14 | 101.66 | 42.49 | -2.35 | HORIZONTAL | PASSED |
| 6954.9 | 50.66 | 341.036 | 46.64 | 4.02 | VERTICAL | PASSED |

Average(RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3477.4 | 27.56 | 23.881 | 29.91 | -2.35 | HORIZONTAL | PASSED |
| 6954.9 | 37.28 | 73.097 | 33.26 | 4.02 | VERTICAL | PASSED |

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 37.398 | 19.61 | 9.562 | 34.45 | -14.84 | VERTICAL | PASSED |
| 37.415 | 28.25 | 25.843 | 43.11 | -14.86 | VERTICAL | PASSED |
| 37.436 | 19.67 | 9.622 | 34.54 | -14.87 | VERTICAL | PASSED |
| 37.539 | 19.59 | 9.54 | 34.54 | -14.95 | VERTICAL | PASSED |
| 38.661 | 25.58 | 19.017 | 41.33 | -15.75 | VERTICAL | PASSED |
| 41.201 | 17.36 | 7.378 | 35.04 | -17.68 | VERTICAL | PASSED |
| 41.322 | 25.88 | 19.67 | 43.66 | -17.78 | VERTICAL | PASSED |
| 196.774 | 24.25 | 16.315 | 50.61 | -26.36 | VERTICAL | PASSED |

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 2933.866 | 50.03 | 317.249 | 41.57 | 8.46 | VERTICAL | PASSED |
| 3926.754 | 41.43 | 117.896 | 42.37 | -0.94 | VERTICAL | PASSED |

Average(RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 2933.866 | 37.38 | 73.935 | 28.92 | 8.46 | VERTICAL | PASSED |
| 3926.754 | 28.15 | 25.556 | 29.09 | -0.94 | VERTICAL | PASSED |

RX mode, channel 251 / 893.8 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3576.8 | 40.17 | 101.93 | 43.31 | -3.14 | VERTICAL | PASSED |
| 7148.4 | 46.07 | 201.118 | 41.71 | 4.36 | VERTICAL | PASSED |



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Average(RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3576.8 | 26.8 | 21.883 | 29.94 | -3.14 | VERTICAL | PASSED |
| 7148.4 | 32.57 | 42.526 | 28.21 | 4.36 | VERTICAL | PASSED |

## 2.4. GSM1900 Test results

RX mode, channel 512 / 1930.2 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3859.9 | 41.87 | 124.037 | 42.63 | -0.76 | HORIZONTAL | PASSED |
| 7720.6 | 48.96 | 280.543 | 45.15 | 3.81 | VERTICAL | PASSED |

Average(RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3859.9 | 28.75 | 27.391 | 29.51 | -0.76 | HORIZONTAL | PASSED |
| 7720.6 | 34.64 | 53.939 | 30.83 | 3.81 | VERTICAL | PASSED |

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 120 kHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 33.956 | 14.2 | 5.126 | 26.58 | -12.38 | VERTICAL | PASSED |
| 37.543 | 19.7 | 9.656 | 34.65 | -14.95 | VERTICAL | PASSED |
| 37.629 | 19.02 | 8.937 | 34.03 | -15.01 | VERTICAL | PASSED |
| 37.695 | 18.77 | 8.683 | 33.83 | -15.06 | VERTICAL | PASSED |
| 38.36 | 17.72 | 7.688 | 33.26 | -15.54 | VERTICAL | PASSED |
| 41.184 | 17.47 | 7.477 | 35.14 | -17.67 | VERTICAL | PASSED |
| 41.223 | 13.66 | 4.822 | 31.36 | -17.7 | VERTICAL | PASSED |
| 41.266 | 17.26 | 7.29 | 34.99 | -17.73 | VERTICAL | PASSED |

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 7072.548 | 45.41 | 186.402 | 40.9 | 4.51 | HORIZONTAL | PASSED |

Average(RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 7072.548 | 32.59 | 42.614 | 28.08 | 4.51 | HORIZONTAL | PASSED |



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RX mode, channel 810 / 1989.8 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3980 | 40.54 | 106.463 | 42.49 | -1.95 | VERTICAL | PASSED |
| 7959.5 | 45.26 | 183.274 | 41.3 | 3.96 | HORIZONTAL | PASSED |

Average(RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 3980 | 27.69 | 24.249 | 29.64 | -1.95 | VERTICAL | PASSED |
| 7959.5 | 32.14 | 40.467 | 28.18 | 3.96 | HORIZONTAL | PASSED |

## 2.5. WLAN Test results

TX mode, channel 1

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 4824.000000 | 43.20 | 144.54 | 43.40 | -0.2 | HORIZONTAL | PASSED |
| 7236.000000 | 43.40 | 147.91 | 39.10 | 4.3 | VERTICAL | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 4824.000000 | 29.60 | 30.20 | 29.80 | -0.2 | HORIZONTAL | PASSED |
| 7236.000000 | 30.90 | 35.08 | 26.60 | 4.3 | VERTICAL | PASSED |

TX mode, channel 7 / 2442 MHz

Quasi peak (RBW: 120 kHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 37.595391 | 27.90 | 24.83 | 43.00 | -15.1 | VERTICAL | PASSED |

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

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 2364.853707 | 54.90 | 555.90 | 49.70 | 5.2 | HORIZONTAL | PASSED |
| 2495.048096 | 56.00 | 630.96 | 49.30 | 6.7 | HORIZONTAL | PASSED |
| 2836.600200 | 52.10 | 402.72 | 41.80 | 10.3 | HORIZONTAL | PASSED |
| 4883.769539 | 43.30 | 146.22 | 42.90 | 0.4 | VERTICAL | PASSED |
| 4884.267535 | 43.80 | 154.88 | 43.40 | 0.4 | VERTICAL | PASSED |
| 7289.077154 | 43.20 | 144.54 | 38.80 | 4.4 | VERTICAL | PASSED |
| 7391.275551 | 43.10 | 142.89 | 38.70 | 4.4 | HORIZONTAL | PASSED |
| 7401.305611 | 43.10 | 142.89 | 38.80 | 4.3 | VERTICAL | PASSED |
| 17477.957916 | 52.60 | 426.58 | 35.80 | 16.8 | VERTICAL | PASSED |
| 17985.973948 | 55.50 | 595.66 | 35.80 | 19.7 | VERTICAL | PASSED |



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Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 2362.353707 | 41.70 | 121.62 | 36.50 | 5.2 | HORIZONTAL | PASSED |
| 2496.048096 | 42.40 | 131.83 | 35.70 | 6.7 | HORIZONTAL | PASSED |
| 2840.600200 | 39.20 | 91.20 | 28.80 | 10.4 | HORIZONTAL | PASSED |
| 4883.769539 | 30.80 | 34.67 | 30.40 | 0.4 | VERTICAL | PASSED |
| 4884.267535 | 30.20 | 32.36 | 29.80 | 0.4 | VERTICAL | PASSED |
| 7284.577154 | 30.30 | 32.73 | 26.00 | 4.3 | VERTICAL | PASSED |
| 7387.775551 | 30.60 | 33.88 | 26.10 | 4.5 | HORIZONTAL | PASSED |
| 7404.305611 | 30.40 | 33.11 | 26.10 | 4.3 | VERTICAL | PASSED |
| 17481.957916 | 39.60 | 95.50 | 22.80 | 16.8 | VERTICAL | PASSED |
| 17990.973948 | 42.30 | 130.32 | 22.60 | 19.7 | VERTICAL | PASSED |

TX mode, channel 11 / 2462 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 4924.000000 | 43.30 | 146.22 | 42.60 | 0.7 | VERTICAL | PASSED |
| 7386.000000 | 43.80 | 154.88 | 39.30 | 4.5 | HORIZONTAL | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBµV/m] | E [µV/m] | $U_{RX}$ [dBµV] | $A_{TOT}$ [dB] | Polarisation | Result |
|---|---|---|---|---|---|---|
| 4924.000000 | 30.30 | 32.73 | 29.60 | 0.7 | VERTICAL | PASSED |
| 7386.000000 | 31.40 | 37.15 | 26.90 | 4.5 | VERTICAL | PASSED |



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# 3. Test Equipment

## 3.1. Conducted measurements

| Eq. No | Equipment | Type | Manufacturer | Used in |
|---|---|---|---|---|
| BJPCHW0020 | DC Power supply | Hp6632B | HP | 22/24/27, 15C |
| BJPCPT0040 | Receiver | ESCS30 | R&S | 15C,15B |
| BJPCPT0069 | LISN 50 µH | ESH3-Z5 | R&S | 15C,15B |
| BJPCPT0073 | Signal Generator | SMR 20 | R&S | 22/24/27, 15C, 15B |
| BJPCPT0079 | LISN 50 µH | ESH3-Z5 | R&S | 15C,15B |
| BJPCPT0131 | Communication Tester | CMU200 | R&S | 15C,15B |
| BJPCPT0191 | Pulse Limiter | ESH3-Z2 | R&S | 15C,15B |
| BJPCTC0017 | Communication Tester | CMU200 | R&S | 22/24/27, 15C, 15B |
| BJPCTC0067 | Bluetooth Tester | CBT | R&S | 22/24/27, 15C |
| BJPCTC0089 | Temperature Test chamber | VT4002 | Votsch | 22/24/27, 15C |
| BJPCTC0090 | FSP spectrum analyzer | FSP30 | R&S | 22/24/27, 15C |
| BJPCTC0094 | GPIB-RS232 convertor | GPIB-RS232 | NI | 22/24/27, 15C |

## 3.2. Radiated measurements

| Eq. No | Equipment | Type | Manufacturer | Used in |
|---|---|---|---|---|
| - | BT / WLAN Antenna | SPA 2400/75/9/0/V | Huber-Suhner | 15C, 15B |
| - | RF Emission Software | ES-K1 v.1.71 | R&S | 22/24/27, 15C, 15B |
| BJPCPT0072 | Receiver | ESI B26 | R&S | 22/24/27, 15C, 15B |
| BJPCPT0130 | Relay Switch Unit | TS-RSP | R&S | 22/24/27, 15C, 15B |
| BJPCPT0150 | High Pass Filter | WHKS1200-10SS | Wainwright | 22/24/27, 15C, 15B |
| BJPCPT0151 | Band Reject Filter | WRCD1880/2000- | Wainwright | 24, 15B |
| BJPCPT0154 | Band Reject Filter | WRCT2402/2480- | Wainwright | 15C, 15B |
| BJPCPT0162 | Antenna | HF906 | R&S | 22/24/27, 15C, 15B |
| BJPCTC0007 | Antenna | HL562 | R&S | 22/24/27, 15C, 15B |
| BJPCTC0029 | Antenna | HF906 | R&S | 22/24/27, 15C, 15B |
| BJPCTC0034 | Band Reject Filter | WRCT 800/880-0.2/40- | Wainwright | 22, 15B |
| BJPCTC0049 | Preamplifier | Blma 0118-1A-Bt | Bonn | 22/24/27, 15C, 15B |
| BJPCTC0055 | Communication Tester | CMU200 | R&S | 22/24/27,15C,15B |
| BJPCTC0058 | Bluetooth Tester | CBT | R&S | 15C, 15B |
| BJPCTC0064 | Band Reject Filter | WRCG1877/1883- | Wainwright | 24, 15B |
| BJPCTC0065 | Band Reject Filter | WRCG832/838- | Wainwright | 27, 15B |
| BJPCTC0071 | Multi-Device Controller | 2090 | EMCO | 22/24/27, 15C, 15B |
| BJPCTC0072 | Anechoic Chamber | 3 m Semi / Full | ETS | 22/24/27, 15C, 15B |
| BJPCTC0073 | MAST | Model-TR/POL | ETS | 22/24/27, 15C, 15B |
| BJPCTC0074 | MAST | Model 2070-2 | ETS | 22/24/27, 15C, 15B |
| BJPCTC0075 | Turntable | Model 2188 | ETS-EMCO | 22/24/27, 15C, 15B |
| BJPCTC0096 | Preamplifier | AFS4-00100300-20- | Miteq | 22/24/27, 15C, 15B |



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