

## FCC Part 15B Compliance Test Report

|                                                         |                                                                                                                                                                                                                                                      |                                   |                                                                                                                                        |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Report no.:</b>                                 | FCC15B_RM-893_06.docx                                                                                                                                                                                                                                | <b>Date of Report:</b>            | 20-May-2013                                                                                                                            |
| <b>Number of pages:</b>                                 | 10                                                                                                                                                                                                                                                   | <b>Customer's Contact person:</b> | Jari Rontu                                                                                                                             |
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| <b>FCC listing no.:</b>                                 | 94436                                                                                                                                                                                                                                                |                                   |                                                                                                                                        |
| <b>IC recognition no.:</b>                              | 661AK-1                                                                                                                                                                                                                                              |                                   |                                                                                                                                        |
| <b>Tested devices/ accessories:</b>                     | <b>Phone RM-893, Battery BL-4YW, AC charger AC-50E, Headset WH-208, Data cable CA-190CD, Laptop IBM Thinkpad T40, AC adapter 02K6543, Printer HP deskjet 1600CC3540A, Parallel cable for printer</b>                                                 |                                   |                                                                                                                                        |
| <b>FCC ID:</b>                                          | PYAA1                                                                                                                                                                                                                                                | <b>IC:</b>                        | 661V-A1                                                                                                                                |
| <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. 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>             |                                                                                                                                                                                                                                                      |                                   |                                                                                                                                        |

**Sami Lehtonen, Specialist, EMC**

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

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| Date of receipt               | 30-Apr-2013                                                     |
| Testing completed             | 03-May-013                                                      |
| The customer's contact person | Jari Rontu                                                      |
| Test Plan referred to         | T:\Projects\RM-892\TestPlan\RS_testplan_RM-892_EMC_FCC_SAR.xlsm |
| Notes                         | -                                                               |
| Document name                 | T:\Projects\RM-893\EMC\FCC15B_RM-893_06.docx                    |

### 1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:  
GSM/WCDMA/WLAN  
The EUT is tested with maximum rated TX power.

Devices under tests

| Product                    | Type                   | SN                          | HW             | MV | SW                   | DUT   |
|----------------------------|------------------------|-----------------------------|----------------|----|----------------------|-------|
| Phone                      | RM-892                 | 004402473892473             | 0410           |    | 3037.0000.1316.21035 | 43013 |
| Battery                    | BL-4YW                 | -                           | 4.0            | -  | -                    | -     |
| AC charger                 | AC-50E                 | 4090492023260400600;0675619 | HW0.5MW0.4PV04 | -  | -                    | 42785 |
| Headset                    | WH-208                 | 1411621                     | -              | -  | -                    | 42831 |
| Data cable                 | CA-190CD               | -                           | -              | -  | -                    | 42786 |
| Laptop                     | IBM Thinkpad T40       | 99ARTGD                     | -              | -  | -                    | 41868 |
| AC Adapter                 | 02K6543                | -                           | -              | -  | -                    | 40202 |
| Printer                    | HP deskjet 1600CC3540A | USB8302546                  | -              | -  | -                    | 40077 |
| Parallel cable for printer | -                      | -                           | -              | -  | -                    | 40087 |

### 1.2. Summary of Test Results

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.

*The test results of PYARM-892 are re-used for certification of the PYARM-893. The table above indicates the results, which will be re-used.*

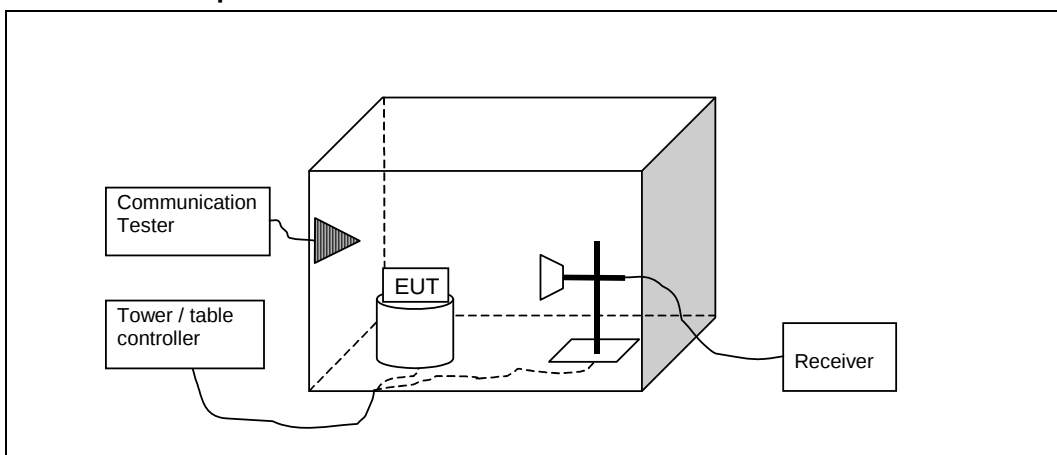
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## 2. Radiated emissions (FCC §15.109, ICES-003 section 5.5)

|                                                        |                            |
|--------------------------------------------------------|----------------------------|
| <b>EUT with DUT number</b>                             | RM-892, DUT 43013          |
| <b>Accessories with DUT numbers</b>                    | BL-4YW , AC-50E, DUT 42785 |
| <b>Operation Voltage [V] / [Hz]</b>                    | 115 / 60                   |
| <b>Results</b>                                         | PASSED                     |
| <b>Remarks</b>                                         | -                          |
| <b>Temp [°C] / Humidity [%RH] / Air Pressure [kPa]</b> | 25 / 47 / 100.3            |
| <b>Date of measurements</b>                            | 30-Apr-2013                |
| <b>Measured by</b>                                     | Hannu Söderholm            |

### 2.1.1 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:

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

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] | Quasi peak limit [dBμV/m] | Average limit [dBμV/m] | Peak limit [dBμV/m] |
|-----------------------|---------------------------|------------------------|---------------------|
| 30 - 230              | 40                        | -                      | -                   |
| 230 – 1000            | 47                        | -                      | -                   |
| 1000 - 3000           | -                         | 50                     | 70                  |
| Above 3000            | -                         | 54                     | 74                  |

## 2.3. GSM850 test results

RX mode, channel 128 / 869.2 MHz

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] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3475.9          | 39.01      | 89.238   | 43.67                  | -4.66                 | 35     | 74             | PASSED  |
| 6955            | 47.36      | 233.238  | 46.8                   | 0.56                  | 26.6   | 74             | PASSED  |

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

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3475.9          | 26.26      | 20.552   | 30.92                  | -4.66                 | 27.7   | 54             | PASSED  |
| 6955            | 34.7       | 54.319   | 34.14                  | 0.56                  | 19.3   | 54             | PASSED  |

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 30.09           | 19.36      | 9.288    | 45.15                  | -25.79                | 20.6   | 40             | PASSED  |
| 46.955          | 22.15      | 12.801   | 55.52                  | -33.37                | 17.9   | 40             | 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] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 7821.64         | 45.87      | 196.653  | 43.11                  | 2.76                  | 28.1   | 74             | PASSED  |
| 7831.159        | 45.27      | 183.506  | 42.49                  | 2.78                  | 28.7   | 74             | PASSED  |
| 7852.903        | 45.71      | 192.93   | 42.98                  | 2.73                  | 28.3   | 74             | PASSED  |
| 7854.809        | 45.29      | 183.76   | 42.5                   | 2.8                   | 28.7   | 74             | PASSED  |

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

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 7821.64         | 32.51      | 42.199   | 29.75                  | 2.76                  | 21.5   | 54             | PASSED  |
| 7831.159        | 32.42      | 41.797   | 29.64                  | 2.78                  | 21.6   | 54             | PASSED  |
| 7852.903        | 32.67      | 43.023   | 29.94                  | 2.73                  | 21.3   | 54             | PASSED  |
| 7854.809        | 32.7       | 43.167   | 29.91                  | 2.8                   | 21.3   | 54             | PASSED  |

RX mode, channel 251 / 893.8 MHz

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] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3575.3          | 39.36      | 92.865   | 43.95                  | -4.59                 | 34.6   | 74             | PASSED  |
| 7151.5          | 44.35      | 165.025  | 42.85                  | 1.5                   | 29.6   | 74             | PASSED  |

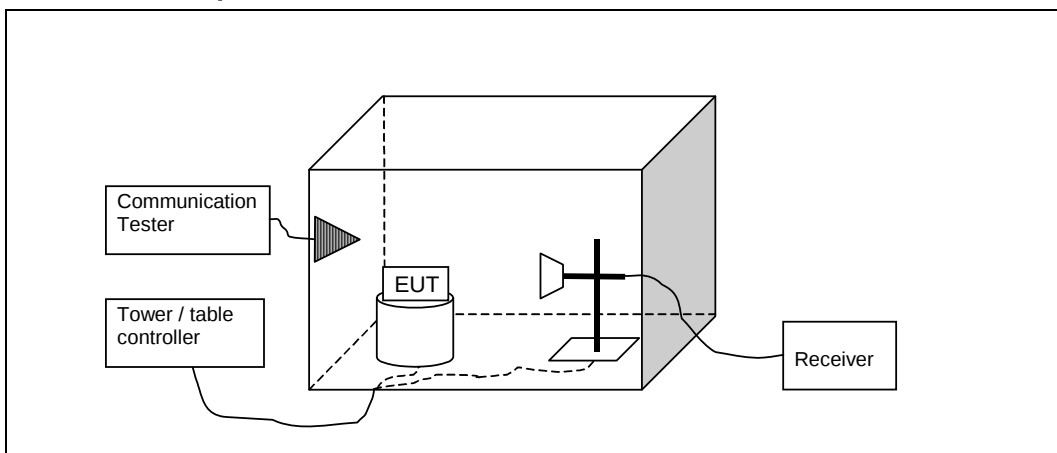
Average (RBW: 1 MHz, VBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3575.3          | 26.38      | 20.835   | 30.97                  | -4.59                 | 27.6   | 54             | PASSED  |
| 7151.5          | 31.17      | 36.178   | 29.67                  | 1.5                   | 22.8   | 54             | PASSED  |

### 3. Radiated emissions (FCC §15.109, ICES-003 section 5.5)

|                                                        |                                                                                                                                                   |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT with DUT number</b>                             | RM-892, DUT 43013                                                                                                                                 |
| <b>Accessories with DUT numbers</b>                    | BL-4YW , AC-50E, DUT 42785, IBM Thinkpad T40 DUT 41868, 02K6543 DUT 40202, HP deskjet 1600CC3540A DUT 40077, Parallel cable for printer DUT 40087 |
| <b>Operation Voltage [V] / [Hz]</b>                    | 115 / 60                                                                                                                                          |
| <b>Results</b>                                         | PASSED                                                                                                                                            |
| <b>Remarks</b>                                         | -                                                                                                                                                 |
| <b>Temp [°C] / Humidity [%RH] / Air Pressure [kPa]</b> | 25 / 47 / 100.3                                                                                                                                   |
| <b>Date of measurements</b>                            | 30-Apr-2013                                                                                                                                       |
| <b>Measured by</b>                                     | Hannu Söderholm                                                                                                                                   |

#### 3.1.1 Test setup



### 3.2. GSM1900 test results

RX mode, channel 512 / 1930.2 MHz

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] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3861.1          | 41.06      | 113.032  | 44.51                  | -3.45                 | 32.9   | 74             | PASSED  |
| 7718.7          | 45.12      | 180.364  | 42.73                  | 2.39                  | 28.9   | 74             | PASSED  |

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

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3861.1          | 27.99      | 25.076   | 31.44                  | -3.45                 | 26     | 54             | PASSED  |
| 7718.7          | 31.98      | 39.715   | 29.59                  | 2.39                  | 22     | 54             | PASSED  |

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 39.329          | 28.73      | 27.318   | 58.43                  | -29.7                 | 11.3   | 40             | PASSED  |
| 99.959          | 22.81      | 13.817   | 57.66                  | -34.85                | 17.2   | 40             | PASSED  |
| 114.529         | 32.91      | 44.213   | 67.22                  | -34.31                | 7.1    | 40             | PASSED  |
| 143.186         | 37.55      | 75.379   | 72.01                  | -34.46                | 2.5    | 40             | PASSED  |
| 198.99          | 34.28      | 51.767   | 71.24                  | -36.96                | 5.7    | 40             | PASSED  |
| 226.092         | 30.15      | 32.163   | 66.02                  | -35.87                | 9.9    | 40             | PASSED  |
| 433.207         | 27.51      | 23.733   | 58.02                  | -30.51                | 19.5   | 47             | PASSED  |
| 501.332         | 35.75      | 61.306   | 64.88                  | -29.13                | 11.2   | 47             | PASSED  |
| 511.182         | 36.45      | 66.466   | 65.34                  | -28.89                | 10.5   | 47             | PASSED  |
| 900.761         | 35.9       | 62.381   | 59.12                  | -23.22                | 11.1   | 47             | 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] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 7831.864        | 45.87      | 196.653  | 43.11                  | 2.76                  | 28.1   | 74             | PASSED  |
| 7839.479        | 45.38      | 185.866  | 42.61                  | 2.77                  | 28.6   | 74             | PASSED  |
| 7847.997        | 45.09      | 179.721  | 42.37                  | 2.73                  | 28.9   | 74             | PASSED  |
| 7860.22         | 45.95      | 198.267  | 43.12                  | 2.84                  | 28.1   | 74             | PASSED  |

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

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 7831.864        | 32.58      | 42.535   | 29.82                  | 2.76                  | 21.4   | 54             | PASSED  |
| 7839.479        | 32.65      | 42.884   | 29.88                  | 2.77                  | 21.4   | 54             | PASSED  |
| 7847.997        | 32.7       | 43.132   | 29.98                  | 2.73                  | 21.3   | 54             | PASSED  |
| 7860.22         | 33.02      | 44.776   | 30.19                  | 2.84                  | 21     | 54             | PASSED  |

RX mode, channel 810 / 1989.8 MHz

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] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3979.5          | 41.43      | 117.951  | 44.51                  | -3.08                 | 32.6   | 74             | PASSED  |
| 7960.7          | 46.34      | 207.372  | 43.4                   | 2.95                  | 27.7   | 74             | PASSED  |

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

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Margin | Limit [dBμV/m] | Results |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3979.5          | 28.07      | 25.328   | 31.15                  | -3.08                 | 25.9   | 54             | PASSED  |
| 7960.7          | 32.9       | 44.162   | 29.96                  | 2.95                  | 21.1   | 54             | PASSED  |

## 4. Test Equipment

### 4.1. Conducted measurements

| Eq. No  | Equipment                           | Type        | Manufacturer  | Used in                 |
|---------|-------------------------------------|-------------|---------------|-------------------------|
| TM38112 | Power supply                        | 6632A       | Agilent       | 22/24/27, 15C, 15E      |
| TM38631 | Signal Generator                    | 83640L      | Agilent       | 22/24/27, 15C, 15E, 15B |
| TM37678 | Communication Tester                | CMU200      | R&S           | 15C, 15B                |
| TM30600 | Impulse limiter                     | ESH3-Z2     | R&S           | 15C, 15B                |
| TM26490 | LISN 50 $\mu$ H                     | ESH3-Z5     | R&S           | 15C, 15B                |
| TM26491 | LISN 50 $\mu$ H                     | ESH3-Z5     | R&S           | 15C, 15B                |
| TM37610 | Spectrum Analyzer                   | FSU26       | R&S           | 22/24/27, 15C, 15E      |
| TM23007 | Oscilloscope                        | TDS684B     | Tektronix     | 15E                     |
| TM22806 | Battery                             | BAT 20/E    | Fiskars       | 15C, 15B                |
| TM22805 | UPS                                 | PS 20/1.2   | Fiskars       | 15C, 15B                |
| -       | Temperature and humidity logger     | 175-H2      | Testo         | 15C, 15B                |
| -       | Temperature and humidity logger     | 175-H2      | Testo         | 22/24/27, 15C           |
| -       | Air pressure and temperature logger | 635-2       | Testo         | 22/24/27, 15C, 15B      |
| -       | Air pressure sensor                 | 0638-1835   | Testo         | 22/24/27, 15C, 15B      |
| -       | Temperature test chamber            | VT 4002     | Vötsch        | 22/24/27                |
| 2058    | Receiver                            | ESPC        | R&S           | 15C, 15B                |
| 2001    | Bluetooth tester                    | CBT         | R&S           | 15C, 15B                |
| 2002    | Communication Tester                | CMU200      | R&S           | 22/24/27, 15C           |
| 2009    | LISN 50 $\mu$ H                     | ENV216      | R&S           | 15C, 15B                |
| 2010    | LISN 50 $\mu$ H                     | ENV216      | R&S           | 15C, 15B                |
| 2012    | Power splitter                      | 11667B      | Agilent       | 22/24/27, 15C           |
| 2013    | Attenuator                          | 8493C       | Agilent       | 22/24/27, 15C           |
| 2014    | Attenuator                          | 8493C       | Agilent       | 22/24/27, 15C           |
| 2019    | Power splitter                      | ZN2PD-9G-S+ | Mini-Circuits | 15E                     |
| 2020    | Power splitter                      | ZN2PD-9G-S+ | Mini-Circuits | 15E                     |
| 2021    | Communication Tester                | CMW500      | R&S           | 22/24/27                |
| 2023    | Spectrum Analyzer                   | ESMI-RF     | R&S           | 15B/15C                 |
| 2024    | Analyzer display unit               | ESAI-D      | R&S           | 15B/15C                 |

#### 4.2. Radiated measurements

| Eq. No  | Equipment                           | Type                                   | Manufacturer | Used in                 |
|---------|-------------------------------------|----------------------------------------|--------------|-------------------------|
| TM38114 | Power supply                        | 6632A                                  | Agilent      | 22/24/27, 15C, 15B      |
| TM38631 | Signal Generator                    | 83640L                                 | Agilent      | 22/24/27, 15C, 15E, 15B |
| -       | Antenna                             | BBHA 9120 D                            | Schwarzbeck  | 22/24/27, 15C           |
| TM26497 | Antenna                             | 3115                                   | Emco         | 22/24/27, 15C, 15B      |
| TM37773 | Communication Tester                | CMU200                                 | R&S          | 22/24/27, 15B           |
| TM38845 | Receiver                            | ESIB 26                                | R&S          | 22/24/27, 15C, 15E, 15B |
| -       | Antenna                             | HL562                                  | R&S          | 22/24/27, 15C, 15E, 15B |
| -       | Turntable                           | 2188                                   | EMCO         | 22/24/27, 15C, 15E, 15B |
| -       | Turntable controller                | 2090                                   | EMCO         | 22/24/27, 15C, 15E, 15B |
| -       | RF system panel                     | TS-RSP                                 | R&S          | 22/24/27, 15C, 15E, 15B |
| -       | RF system panel                     | TS-RSP                                 | R&S          | 22/24/27, 15C, 15E, 15B |
| -       | Mini mast                           | 2075-2                                 | ETS Lindgren | 22/24/27, 15C, 15B      |
| TM38843 | Mini mast                           | 2075                                   | Emco         | 22/24/27, 15C, 15B      |
| TM38842 | Antenna mast controller             | 2090                                   | Emco         | 22/24/27, 15C, 15B      |
| TM30643 | LISN 50 µH                          | LISN-5-20-2                            | FCC          | 22/24/27, 15C, 15B      |
| TM30644 | LISN 50 µH                          | LISN-5-20-2                            | FCC          | 22/24/27, 15C, 15B      |
| -       | Temperature and humidity logger     | 175-H2                                 | Testo        | 22/24/27, 15C, 15B      |
| -       | Air pressure and temperature logger | 635-2                                  | Testo        | 22/24/27, 15C, 15B      |
| -       | Air pressure sensor                 | 0638-1835                              | Testo        | 22/24/27, 15C, 15B      |
| TM37523 | Preamplifier                        | AMF-4D-10M-3G-25-20P                   | Miteq        | 22/24/27, 15C, 15B      |
| TM37498 | Preamplifier                        | AMF-5D-020180-26-10P                   | Miteq        | 22/24/27, 15C, 15B      |
| TM30599 | Semi anechoic chambre               | UNKNOWN                                | TDK          | 22/24/27, 15C, 15B      |
| TM22638 | Power supply                        | OL63743-901                            | -            | 22/24/27, 15C, 15E, 15B |
| TM38066 | High pass filter                    | WHKX3.0/18G-12SS                       | Wainwright   | 22/24/27, 15C, 15E, 15B |
| 2028    | High pass filter                    | WHKX 1.0/15G-12SS                      | Wainwright   | 22/24/27, 15C, 15E, 15B |
| TM37545 | Tunable notch filter                | 800.0/960.0-0.2/40-8SSK                | Wainwright   | 22                      |
| TM26512 | Tunable notch filter                | WRCD1850/1910-0.2/40-10SSK             | Wainwright   | 24                      |
| -       | Band reject filter                  | WRCG1877/1883-1870/1890-40/6EE         | Wainwright   | 24                      |
| -       | Band reject filter                  | WRCG1729.4/1735.4-1722.4/1742.4-40/6SS | Wainwright   | 27                      |
| -       | Band reject filter                  | WRCG832/838-825/848-40/5SS             | Wainwright   | 22                      |
| TM23892 | Controller                          | G-1000SDX                              | Yaesu        | 22/24/27                |
| 2001    | Bluetooth tester                    | CBT                                    | R&S          | 15C, 15B                |
| 6023    | Antenna                             | VUBA 9117                              | Schwarzbeck  | 22/24/27                |
| 2021    | Communication Tester                | CMW500                                 | R&S          | 22/24/27                |
| 2025    | Antenna                             | HFH2-Z2                                | R&S          | 15C                     |