

## FCC Part 15C Compliance Test Report

|                                                         |                                                                                                                                                                                                                                                                        |                                   |                                                                                                                                |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Report no.:</b>                                 | FCC15CBT_RM-978_26.docx                                                                                                                                                                                                                                                | <b>Date of Report:</b>            | 05-Aug-2014                                                                                                                    |
| <b>Number of pages:</b>                                 | 9                                                                                                                                                                                                                                                                      | <b>Customer's Contact person:</b> | Juha Paukku                                                                                                                    |
| <b>Testing laboratory:</b>                              | TCC Microsoft Tampere Laboratory<br>P.O.Box 403<br>Visiokatu 3<br>FIN-33101 TAMPERE, FINLAND<br>Tel. +358 (0) 7180 46800<br>Fax. +358 (0) 7180 46880                                                                                                                   | <b>Customer:</b>                  | Microsoft<br>P.O. Box 68<br>Sinitaival 5<br>FIN-33720 TAMPERE, FINLAND<br>Tel. +358 (0) 7180 46800<br>Fax. +358 (0) 7180 46880 |
| <b>FCC listing no.:</b>                                 | 94436                                                                                                                                                                                                                                                                  |                                   |                                                                                                                                |
| <b>IC recognition no.:</b>                              | 661AK-1                                                                                                                                                                                                                                                                |                                   |                                                                                                                                |
| <b>Tested devices/ accessories:</b>                     | <b>Phone RM-978 / Battery BL-5H LGC / Charger AC-20E Phihong / Headset WH-108</b>                                                                                                                                                                                      |                                   |                                                                                                                                |
| <b>FCC ID:</b>                                          | PDNRM-978                                                                                                                                                                                                                                                              | <b>IC:</b>                        | -                                                                                                                              |
| <b>Supplement reports:</b>                              | -                                                                                                                                                                                                                                                                      |                                   |                                                                                                                                |
| <b>Testing has been carried out in accordance with:</b> | CFR 47, FCC rules Part 15 Subpart C, ANSI C63.4 (2003), Public Notice DA 00-705, DTS procedures KDB 558074, IC standards. Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit". |                                   |                                                                                                                                |
| <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 Microsoft.               |                                   |                                                                                                                                |
| <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 15C Compliance Test Report

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Date of receipt               | 19-Feb-2014                                              |
| Testing completed             | 21-Feb-2014                                              |
| The customer's contact person | Juha Paukku                                              |
| Test Plan referred to         | T:\Projects\RM-977\TestPlan\RS_testplan_RM-977 BOM2.xlsm |
| Notes                         | -                                                        |
| Document name                 | T:\Projects\RM-978\EMC\FCC15CBT_RM-978_26.docx           |

### 1.1. EUT and Accessory Information

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

Devices under tests

| Product | Type          | SN              | HW               | MV | SW                   | DUT   |
|---------|---------------|-----------------|------------------|----|----------------------|-------|
| Phone   | RM-977        | 004402476810209 | 2320             | -  | 1058.0000.1406.10062 | 43149 |
| Battery | BL-5H LGC     | -               | V3.0 PWB ver 2.0 | -  | -                    | 43134 |
| Charger | AC-20E Pihong | -               | -                | -  | -                    | 43135 |
| Headset | WH-108        | -               | -                | -  | -                    | 43136 |

### 1.2. Summary of Test Results

Bluetooth:

| Section in CFR 47    | Section in RSS-GEN or RSS-210 | Name of the test                     | Result |
|----------------------|-------------------------------|--------------------------------------|--------|
| 15.247(b)(1)         | A8(0.4(2))                    | Conducted peak output power          | NP     |
| 15.247(d), 15.205(b) | A8(0.5)                       | Band edge compliance of RF emissions | NP     |
| 15.247(d)            | A8(0.5)                       | Spurious RF conducted emissions      | NP     |
| 15.247(d), 15.209    | A8(0.5)                       | Spurious radiated emissions          | PASSED |
| 15.207               | 7.2.2                         | AC powerline conducted emissions     | NP     |
| 15.247(a)(1)         | A8(0.1(1))                    | 20dB(bandwidth)                      | NP     |
| 15.247(a)(1)         | A8(0.1(2))                    | Carrier frequency separation         | NP     |
| 15.247(a)(1)(iii)    | A8(0.1(4))                    | Number of hopping frequencies        | NP     |
| 15.247(a)(1)(iii)    | A8(0.1(4))                    | Time of occupancy                    | NP     |

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 Microsoft Laboratory.

*The test results of PDNRM-977 are re-used for certification of the PDNRM-978. The table above indicates the results, which will be re-used.*

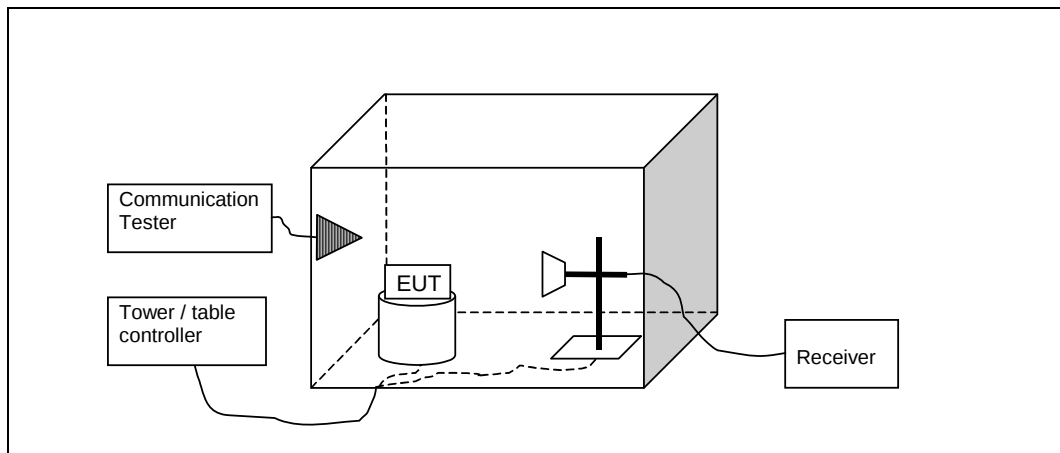
## CONTENTS

|                                                                                         |          |
|-----------------------------------------------------------------------------------------|----------|
| <b>1. Summary for FCC Part 15C Compliance Test Report.....</b>                          | <b>2</b> |
| 1.1. EUT and Accessory Information.....                                                 | 2        |
| 1.2. Summary of Test Results.....                                                       | 2        |
| <b>2. Spurious radiated emissions<br/>(FCC §15.247(d), §15.209, RSS-210 A8.5) .....</b> | <b>4</b> |
| 2.2. Test method and limit.....                                                         | 5        |
| 2.3. Bluetooth test results.....                                                        | 6        |
| <b>3. Test Equipment.....</b>                                                           | <b>8</b> |
| 3.1. Conducted measurements .....                                                       | 8        |
| 3.2. Radiated measurements .....                                                        | 9        |

## 2. Spurious radiated emissions (FCC §15.247(d), §15.209, RSS-210 A8.5)

|                                                 |                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------|
| EUT with DUT number                             | RM-977, DUT 43149                                                   |
| Accessories with DUT numbers                    | BL-5H LGC, DUT 43134 ; AC-20E Pihong, DUT 43135 ; WH-108, DUT 43136 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                                                            |
| Results                                         | PASSED                                                              |
| Remarks                                         | -                                                                   |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 21 / 47 / 101                                                       |
| Date of measurements                            | 21-Feb-2014                                                         |
| Measured by                                     | Hannu Söderholm                                                     |

### 2.1.1 Test setup



## 2.2. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-210 as follows:  
The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system.

The Final Measurement is performed in the Semi-Anechoic Chamber with conducting metal floor, if the Preliminary Measurement results are closer than 20 dB to the permissible value.

The EUT is placed at nonconductive plate at the turntable center.

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 ( $A_{TOT} = L_{CABLES} + A_F - G_{PREAMP}$ ).

Limits for spurious radiated emissions measurements (3 m measurement distance)

| Frequency range [MHz] | Limit [ $\mu V/m$ ] | Limit [dB $\mu V/m$ ] | Detector   |
|-----------------------|---------------------|-----------------------|------------|
| 30 - 88               | 100                 | 40                    | Quasi peak |
| 88 – 216              | 150                 | 43.5                  | Quasi peak |
| 216 – 960             | 200                 | 46                    | Quasi peak |
| 960 – 1000            | 500                 | 54                    | Quasi peak |
| Above 1000            | 500                 | 54                    | Average    |
| Above 1000            | 5000                | 74                    | Peak       |

## 2.3. Bluetooth test results

### 2.3.1 GFSK modulation, PRBS packet type

Channel 0 / 2402 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4804.2          | 42.42      | 132.13   | 47                     | -4.58                 | 31.6   | 74             | PASSED  |
| 7205.8          | 44.47      | 167.205  | 43.51                  | 0.97                  | 50.8   | 95             | 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4804.2          | 28.12      | 25.474   | 32.7                   | -4.58                 | 25.9   | 54             | PASSED  |
| 7205.8          | 31.71      | 38.49    | 30.75                  | 0.97                  | ---    | ---            | PASSED  |

Channel 40 / 2442 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 30.06           | 19.81      | 9.778    | 39.65                  | -19.84                | 20.2   | 40             | PASSED  |
| 31.65           | 31.2       | 36.308   | 51.74                  | -20.54                | 8.8    | 40             | PASSED  |
| 31.888          | 20.35      | 10.41    | 41                     | -20.65                | 19.7   | 40             | PASSED  |
| 35.272          | 29.28      | 29.117   | 51.41                  | -22.13                | 10.7   | 40             | PASSED  |
| 36.256          | 29.15      | 28.678   | 51.67                  | -22.52                | 10.8   | 40             | PASSED  |
| 39.099          | 12.75      | 4.342    | 36.41                  | -23.66                | 27.2   | 40             | PASSED  |
| 222.035         | 8.94       | 2.798    | 38.96                  | -30.02                | 37.1   | 46             | PASSED  |
| 945.935         | 40.7       | 108.343  | 57.71                  | -17.01                | 5.3    | 46             | PASSED  |
| 948.209         | 20.57      | 10.683   | 37.61                  | -17.04                | 25.4   | 46             | PASSED  |
| 956.014         | 33.09      | 45.139   | 50.14                  | -17.05                | 12.9   | 46             | PASSED  |

Channel 78 / 2480 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4959            | 40.2       | 102.27   | 44.61                  | -4.41                 | 33.8   | 74             | PASSED  |
| 7442            | 44.79      | 173.64   | 42.95                  | 1.84                  | 29.2   | 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4959            | 27.53      | 23.785   | 31.94                  | -4.41                 | 26.5   | 54             | PASSED  |
| 7442            | 31.64      | 38.186   | 29.8                   | 1.84                  | 22.3   | 54             | PASSED  |

### 2.3.2 8DPSK modulation, PRBS packet type

Channel 0 / 2402 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4804.5          | 41.56      | 119.66   | 46.14                  | -4.58                 | 32.4   | 74             | PASSED  |
| 7207.6          | 45.16      | 181.176  | 44.19                  | 0.97                  | 50.1   | 95             | 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4804.5          | 27.94      | 24.937   | 32.52                  | -4.58                 | 26     | 54             | PASSED  |
| 7207.6          | 31.71      | 38.495   | 30.74                  | 0.97                  | ---    | ---            | PASSED  |

Channel 40 / 2442 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3918.94         | 38.46      | 83.792   | 45.76                  | -7.3                  | 35.5   | 74             | PASSED  |
| 3928.854        | 38.09      | 80.251   | 45.27                  | -7.18                 | 35.9   | 74             | PASSED  |

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              | 19.77      | 9.74     | 39.58                  | -19.81                | 20.2   | 40             | PASSED  |
| 30.06           | 19.21      | 9.133    | 39.05                  | -19.84                | 20.8   | 40             | PASSED  |
| 33.568          | 20         | 9.998    | 41.39                  | -21.39                | 20     | 40             | PASSED  |
| 33.862          | 16.58      | 6.744    | 38.1                   | -21.52                | 23.4   | 40             | PASSED  |
| 35.836          | 18.22      | 8.144    | 40.57                  | -22.35                | 21.8   | 40             | PASSED  |
| 945.935         | 40.31      | 103.669  | 57.32                  | -17.01                | 5.7    | 46             | PASSED  |
| 951.359         | 20.57      | 10.683   | 37.63                  | -17.06                | 25.4   | 46             | 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 3918.94         | 25.21      | 18.21    | 32.51                  | -7.3                  | 28.8   | 54             | PASSED  |
| 3928.854        | 25.29      | 18.395   | 32.47                  | -7.18                 | 28.7   | 54             | PASSED  |

Channel 78 / 2480 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4959.3          | 40.06      | 100.74   | 44.47                  | -4.41                 | 33.9   | 74             | PASSED  |
| 7439.8          | 44.2       | 162.088  | 42.35                  | 1.85                  | 29.8   | 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 |
|-----------------|------------|----------|------------------------|-----------------------|--------|----------------|---------|
| 4959.3          | 27.54      | 23.826   | 31.95                  | -4.41                 | 26.4   | 54             | PASSED  |
| 7439.8          | 31.34      | 36.911   | 29.49                  | 1.85                  | 22.6   | 54             | PASSED  |

### 3. Test Equipment

#### 3.1. Conducted measurements

| Eq. No  | Equipment                           | Type        | Manufacturer  | Used in                 |
|---------|-------------------------------------|-------------|---------------|-------------------------|
| TM37773 | Communication Tester                | CMU200      | R&S           | 22/24/27, 15B           |
| TM30600 | Impulse limiter                     | ESH3-Z2     | R&S           | 15C, 15B                |
| TM26490 | LISN 50 µH                          | ESH3-Z5     | R&S           | 15C, 15B                |
| TM26491 | LISN 50 µH                          | 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                |
| 2001    | Bluetooth tester                    | CBT         | R&S           | 15C, 15B                |
| 2009    | LISN 50 µH                          | ENV216      | R&S           | 15C, 15B                |
| 2010    | LISN 50 µH                          | 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                |
| 2022    | Communication Tester                | CMU200      | R&S           | 22/24/27                |
| 2023    | Spectrum Analyzer                   | ESMI-RF     | R&S           | 15B/15C                 |
| 2024    | Analyzer display unit               | ESAI-D      | R&S           | 15B/15C                 |
| 2026    | Signal Generator                    | SMF 100A    | R&S           | 22/24/27, 15C, 15E, 15B |

### 3.2. Radiated measurements

| Eq. No  | Equipment                           | Type                                   | Manufacturer | Used in                 |
|---------|-------------------------------------|----------------------------------------|--------------|-------------------------|
| -       | Antenna                             | BBHA 9120 D                            | Schwarzbeck  | 22/24/27, 15C           |
| TM37678 | 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                     | OSP130                                 | 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 $\mu$ H                     | LISN-5-20-2                            | FCC          | 22/24/27, 15C, 15B      |
| TM30644 | LISN 50 $\mu$ H                     | 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 chamber               | 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                | WRC1850/1910-0.2/40-10SSK              | 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                      |
| TM23892 | Controller                          | G-1000SDX                              | Yaesu        | 22/24/27, 15C, 15E      |
| 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                     |
| 2026    | Signal Generator                    | SMF 100A                               | R&S          | 22/24/27, 15C, 15E, 15B |
| 2052    | Antenna                             | BBHA 9120 D                            | Schwarzbeck  | 22/24/27, 15C, 15B, 15E |
| -       | Antenna                             | QSH18S20                               | Q-Par        | 22/24/27, 15C, 15B, 15E |
| -       | Antenna                             | QSH20S20                               | Q-Par        | 22/24/27, 15C, 15B, 15E |
| -       | Antenna                             | QSH20S20                               | Q-Par        | 22/24/27, 15C, 15B, 15E |