

#### TEST REPORT

of the accredited test laboratory

TÜV Nr.:M/FG-15/118

**Applicant:** 

AKG Acoustics GmbH

Laxenburger Straße 254

A - 1230 Wien

**Tested Product:** 

Handheld wireless microphone transmitter

FCC-ID:

V3THT45U

IC-ID:

N/A

Manufacturer:

**AKG Acoustics GmbH** 

Laxenburger Straße 254

A - 1230 Wien

**Output power:** 

10mW erp

power supply:

1,5 VDC

Frequency range:

ITU designator:

614,1 - 629,3 MHz

Channel separation:

25 kHz

"Band U2"

119KF3E

Declared channel bandwidth: 200 kHz

Standard:

FCC: 47 CFR Part 74 (October 1, 2014 edition)

RSS-123 Issue 2, February, 2011

TÜV AUSTRIA SERVICES GMBH

Test laboratory for EMC

Supervisor of EMC-laboratory:

Ing. Wilhelm Seier

16.01.2015

Copy Nbr.:

checked by

Ing. Michael Emminger

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The results of this test report only refer to the provided equipment.

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Nachrichtentechnik/ EMV

Fachbereich: Prüfstelle für

Nachrichtentechnik / EMV

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Firmenbuchgericht/ -nummer: Wien / FN 288476 f

Bankverbindungen: UC BA 52949 001 066 IBAN AT131200052949001066 **BIC BKAUATWW** RZB 001-04.093.282 **IBAN** AT153100000104093282 **BIC RZBAATWW** 

UID ATU63240488 DVR 3002476

Relative humidity: 32%



#### **LIST OF MEASUREMENTS**

The complete list of measurements called for in 47 CFR 74 and RSS-123 is given below.

| SUBCLAUSE PARAMETER TO BE MEASURED |                       |      |  |
|------------------------------------|-----------------------|------|--|
|                                    | Intentional Radiators |      |  |
|                                    | Test object data      | 3    |  |
| 74.861(e)(1)<br>(6.2)              | RF Power Output (erp) | 4    |  |
| 74.861(e)(4)<br>(7)                | Frequency tolerance   |      |  |
| 74.861(e)(5)                       | Operating bandwidth   | 5-8  |  |
| (6.3)                              |                       |      |  |
| 74.861(e)(6)<br>(6.3)              | Emission mask         | 5-8  |  |
| 74.861(e)(6)(iii)<br>(6.3)         | Spurious emissions    | 9-11 |  |

Relative humidity: 32%



#### **TEST OBJECT DATA**

#### **General EUT Description**

This audio transmitter will be used as a handheld wireless microphone. It has no antenna connector, so all technical data were measured radiated.

- 2.1033 (c) Technical description
- 2.1033 (4) Type of emission: 119KF3E Channel spacing selectable 25 kHz.
- 2.1033 (5) Frequency range selectable: 614,1 629,3 MHz
- 2.1033 (6) Power range and Controls: The output power is fixed to 10 mW.
- 2.1033 (7) Maximum output power rating: 10mW erp.
- 2.1033 (8) DC Voltage and Current: 1,5 V nominal 1V minimum (1 AA Cell) maximum current consumption: 220 mA
- RSS-135 This standard does not apply to:
  - 1.1.(a) a receiver that scans radio frequencies for the purpose of enabling its associated transmitter to avoid transmitting in an occupied frequency but which does not have the capability of decoding the message (e.g. converting it to audio voice) contained in the radio signal

This test report is issued because of some changes in the RF circuitry. As there were no changes in the frequency determining circuitry no frequency tolerance measurements were performed. The operating bandwidth and emission mask measurements were performed only with that modulation frequency which resulted in the highest emission bandwidth during testing of original equipment.

Tests were performed Jan 12<sup>th</sup> 2015.

Relative humidity: 32%



**Power Output** 

§ 74.261(e)(1) (6.2)

Radiated Measurement

Rated output power: 10 mW

| Test conditions   |  | Transmitter power (mW) (erp) |                  |           |  |  |  |
|---|--|------------------------------|------------------|-----------|--|--|--|
|   |  | 614,1 MHz                    | 623,5 MHz        | 629,3 MHz |  |  |  |
| T <sub>nom</sub> ( 23 )°C   |  | 8,04                         | 7,21             | 6,89      |  |  |  |
| Maximum deviation from rated output power under normal test conditions (dB) |  | -0,95                        | -1,42            | -1,62     |  |  |  |
| Measurement uncertainty   |  |                              | <u>+</u> 0,75 dB |           |  |  |  |

LIMIT

#### SUBCLAUSE 74.261 (e)(1)(ii) (Table 1 of RSS-123)

| Under normal test conditons | 250 mW |
|-----------------------------|--------|
|                             |        |

Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-126; NT-150; NT-207; NT-500; NT-520; NT-550

Relative humidity: 32%

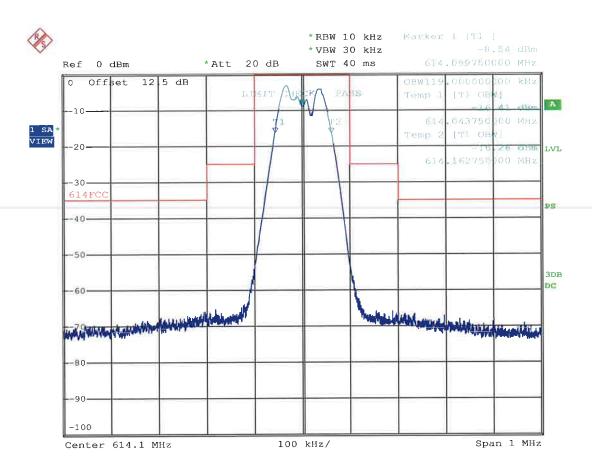


#### **OPERATING BANDWIDTH / EMISSION MASK**

§ 74.261 (e)(5) (6.3)

The operating Bandwidth was measured at an acoustic input level 16 dB higher than that required for half of the maximum linear input level.

Measurement with audio frequency 7,5 kHz @ 614,1 MHz



Date: 12.JAN.2015 13:14:55

Measured 99% power Bandwidth: 119kHz

#### LIMIT SUBCLAUSE 74.261 (e)(5) (Table 1 RSS-123)

The operating bandwidth shall not exceed 200 kHz.

**TEST EQUIPMENT USED: NT-207** 

Relative humidity: 32%

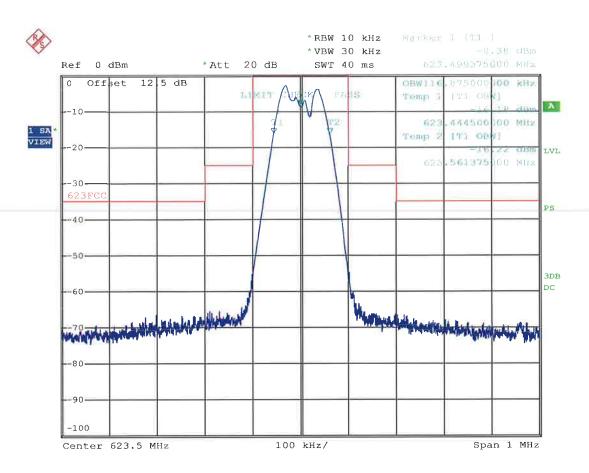
## TUY

#### **OPERATING BANDWIDTH / EMISSION MASK**

§ 74.261 (e)(5) (6.3)

The operating Bandwidth was measured at an acoustic input level 16 dB higher than that required for half of the maximum linear input level.

Measurement with audio frequency 7,5 kHz @ 623,5 MHz



Date: 12.JAN.2015 13:16:00

Measured 99% power Bandwidth: 116,875kHz

LIMIT

SUBCLAUSE 74.261 (e)(5) (Table 1 RSS-123)

The operating bandwidth shall not exceed 200 kHz.

TEST EQUIPMENT USED: NT-207

Relative humidity: 32%

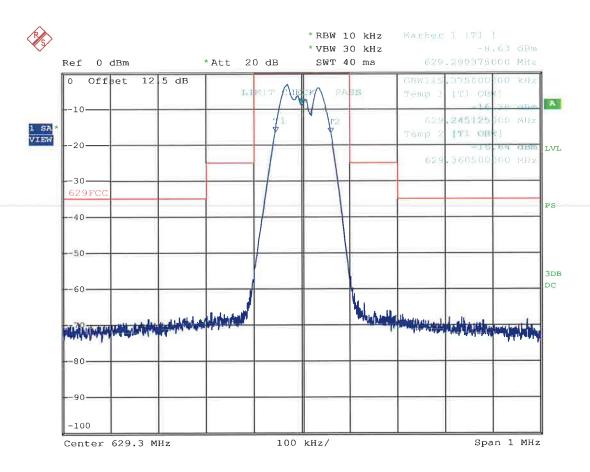


#### **OPERATING BANDWIDTH / EMISSION MASK**

§ 74.261 (e)(5) (6.3)

The operating Bandwidth was measured at an acoustic input level 16 dB higher than that required for half of the maximum linear input level.

Measurement with audio frequency 7,5 kHz @ 629,3 MHz



Date: 12.JAN.2015 13:17:10

Measured 99% power Bandwidth: 115,375kHz

#### LIMIT SUBCLAUSE 74.261 (e)(5) (Table 1 RSS-123)

The operating bandwidth shall not exceed 200 kHz.

TEST EQUIPMENT USED: NT-207

Page 7 of 11

Ambient temperature: 23°C Relative humidity: 32%



**Emissions Mask** 

§ 74.261 (e)(6) (6.3)

#### **LIMIT**

#### 74.261(e)(6)

The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

- (i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25dB;
- (ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35dB;
- (iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least 43+10log<sub>10</sub> (mean output power in watts) dB.

In deviation to above (iii) RSS-123 6.3.1 (3) requires: at least 55 + 10 Log10(TP) dB, in any 30 kHz band removed from the centre of the authorized bandwidth by more than 250% of the authorized bandwidth. The search for unwanted emissions shall be from the lowest frequency internally generated or used in the device (local oscillator, intermediate or carrier frequency), or 500 kHz below its lowest assignable frequency, whichever is the lowest frequency, to the 5th harmonic of the

highest frequency generated or used, without exceeding 23 GHz.

All plots were normalised so that 0 dB is equal to the mean output power measured in a bandwidth equal to 5 times the nominal bandwidth of the emission.

Relative humidity: 32%



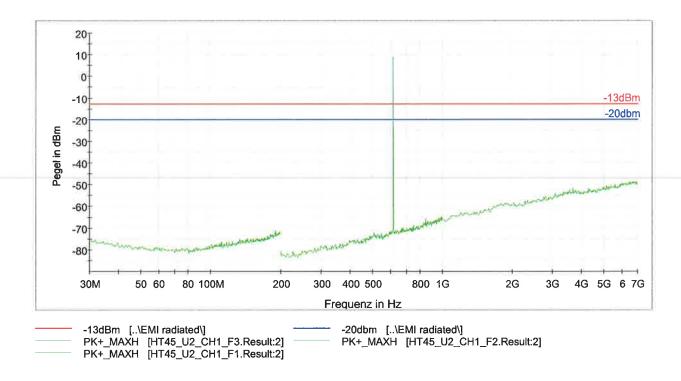
#### Field strength of spurious emissions of the transmitter

§ 74.261 (e)(6)(iii) (6.3)

Operating mode:

Frequency: 614,1 MHz

Modulation: unmodulated carrier



Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-129; NT-139; NT-207; NT-337

Relative humidity: 32%



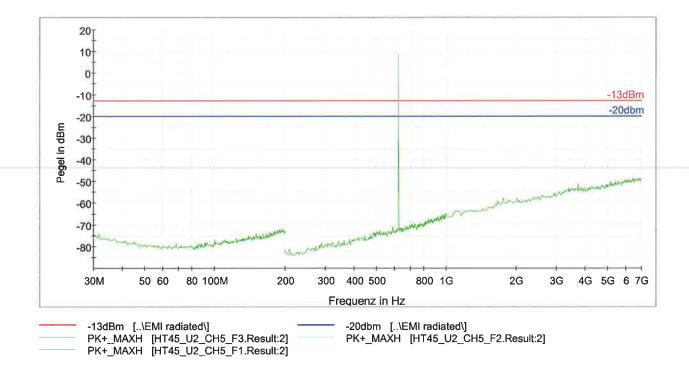
#### Field strength of spurious emissions of the transmitter

§ 74.261 (e)(6)(iii) (6.3)

Operating mode:

Frequency: 623,5 MHz

Modulation: unmodulated carrier



Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-129; NT-139; NT-207; NT-337

Relative humidity: 32%



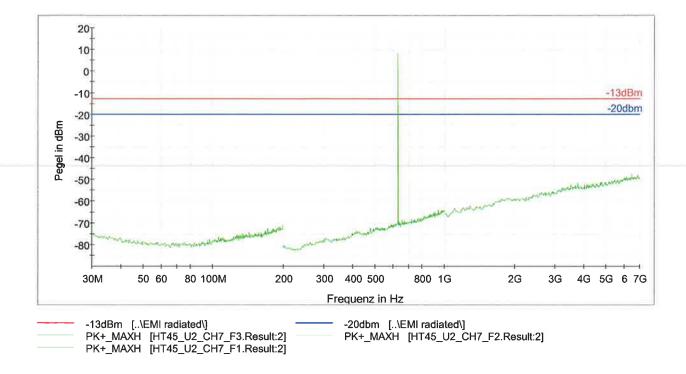
#### Field strength of spurious emissions of the transmitter

§ 74.261 (e)(6)(iii) (6.3)

Operating mode:

Frequency: 629,3 MHz

Modulation: unmodulated carrier



Test Equipment used: NT-100; NT-110; NT-111; NT-112; NT-125; NT-129; NT-139; NT-207; NT-337

## Appendix 1 Test equipment used



|  | Anechoic Chamber with 3m measurement distance    | NT-100             | Spectrumanalyzer – FSP7<br>9 kHz – 7 GHz           | NT-200    | Division Medical<br>Technology/<br>Communication |
|--|--|--------------------|--|-----------|--|
|  | Stripline according to ISO 11452-5               | NT-108             | ESCI - Test receiver<br>9 kHz - 7 GHz              | NT-203/1  | Technology/ EMC                                  |
|  | MA4000 - Antenna mast<br>1 - 4 m height          | NT-110/1           | ESI26 – Test receiver<br>20 Hz – 26,5 GHz          | NT-207    | Department: FG Test report number:               |
|  | DS - Turntable<br>0 - 400 ° Azimuth              | NT-111/1           | Digital Radio Tester<br>CTS55                      | NT-208    | M/FG-15/118                                      |
|  | CO3000 Controller<br>Mast+Turntable              | NT-112/1           | Noise-gen., ITU-R 559-2<br>20 Hz – 20 kHz          | NT-209    | Page: 1 of 3  Date: 16.01.2015                   |
|  | HUF-Z3 - Log. Per. Antenna<br>200 - 1000 MHz     | NT-121             | CMTA - Radiocommunication analyzer; 0,1 - 1000 MHz | NT-210    | Checked by:                                      |
|  | HFH-Z2 - Loop Antenna<br>9 kHz - 30 MHz          | NT-122             | 3271 - Spectrum analyzer<br>100 Hz - 26,5 GHz      | NT-211    | Į u  |
|  | HFH-Z6 - Rod Antenna<br>9 kHz - 30 MHz           | NT-123             | Digital Radio Tester<br>Aeroflex 3920              | NT-212/1  |  |
|  | 3121C - Dipole Antenna<br>28 - 1000 MHz          | NT-124             | Mixer M28HW<br>26,5 GHz - 40 GHz                   | NT-214    |  |
|  | 3115 - Horn Antenna<br>1 - 18 GHz (immunity)     | NT-125             | RubiSource T&M<br>Timing reference                 | NT-216    |  |
|  | 3116 - Horn Antenna<br>18 - 40 GHz               | NT-126             | Radiocommunicationanalyzer SWR 1180 MD             | NT-217    |  |
|  | SAS-200/543 - Bicon. Antenna<br>20 MHz - 300 MHz | NT-127             | Mixer M19HWD<br>40 GHz – 60 GHz                    | NT-218    |  |
|  | AT-1080 - Log. Per. Antenna<br>80 - 1000 MHz     | NT-128             | Mixer M12HWD<br>60 GHz – 90 GHz                    | NT-219    |  |
|  | HK-116 - bicon. Antenna<br>20 MHz - 300 MHz      | NT-129             | DSO9104<br>Digital scope                           | NT-220/1  |  |
|  | HK-116 - bicon. Antenna<br>20 MHz - 300 MHz      | NT-130             | TPS 2014<br>Digital scope                          | NT-222    |  |
|  | 3146 - Log. Per. Antenna<br>200 – 1000 MHz       | NT-131             | Artificial Ear according to IEC 60318              | NT-224    |  |
|  | Loop Antenna<br>H-Field                          | NT-132             | 1 kHz Sound calibrator                             | NT-225    |  |
|  | Horn Antenna<br>500 MHz - 2900 MHz               | NT-133             | B10 - Harmonics and flicker analyzer               | NT-232    |  |
|  | Horn Antenna<br>500 MHz - 6000 MHz               | NT-133/1           | ARS 16/3 – Harmonics- flicker analyzer             | NT-232/1  |  |
|  | Log. per. Antenna<br>800 MHz - 2500 MHz          | NT-134             | SRM-3000<br>Spectrumanalyzer                       | NT-233    |  |
|  | Log. per. Antenna<br>800 MHz - 2500 MHz          | NT-135             | SRM-3006<br>Spectrumanalyzer                       | NT-233/1a |  |
|  | BiConiLog Antenna<br>26 MHz – 2000 MHz           | NT-137             | E-field probe SRM<br>75 MHz – 3 GHz                | NT-234    |  |
|  | Conical Dipol Antenna<br>PCD8250                 | NT-138             | Field Meter NBM-500 incl. E- and H-Field probes    | NT-240a-d |  |
|  | HF 906 - Horn Antenna<br>1 - 18 GHz (emission)   | NT-139             | Hall-Teslameter<br>ETM-1                           | NT-241    |  |
|  | HZ-1<br>Antenna tripod                           | NT-150             | EFA-3<br>H-field- / E-field probe                  | NT-243    |  |
|  | BN 1500<br>Antenna tripod                        | NT-151             | Field Meter EMR-200<br>100 kHz – 3 GHz             | NT-244    |  |
|  | Ant. tripod for EN61000-4-3<br>Model TP1000A     | NT-156             | E-field probe<br>100 kHz – 3 GHz                   | NT-245    |  |
|  | Power quality analyzer Fluke 1760 (complete set) | NT-160 -<br>NT-173 | H-field probe<br>300 kHz – 30 MHz                  | NT-246    |  |
|  |  |                    |  |           |  |

## Appendix 1 (continued) Test equipment used



| E-field probe<br>3 MHz – 18 GHz             | NT-247        | VCS 500-M6<br>Surge-Generator                      | NT-326          | Division Medical<br>Technology/  |
|---|---------------|--|-----------------|----------------------------------|
| H-field probe<br>27 MHz – 1 GHz             | NT-248        | Oscillatory Wave Simulator incl. Coupling networks | NT-<br>328a+b+c | Communication<br>Technology/ EMC |
| ELT-400<br>1 Hz – 400 kHz                   | NT-249        | BTA-250 - RF-Amplifier<br>9 kHz - 220 MHz / 250 W  | NT-330          | Department: FG                   |
| MDS 21 - Absorbing clamp<br>30 - 1000 MHz   | NT-250        | T82-50 RF-Amplifier<br>2 GHz – 8 GHz               | NT-331          | Test report number: M/FG-15/118  |
| FCC-203I<br>EM Injection clamp              | NT-251        | 500W1000M7 - RF-Amplifier<br>80 - 1000 MHz / 500 W | NT-332          | Page: 2 of 3                     |
| FCC-203I-DCN Ferrite decoupling network     | NT-252        | AS0102-65R - RF-Amplifier<br>1 GHz - 2 GHz         | NT-333          | Date: 16.01.2015                 |
| PR50<br>Current Probe                       | NT-253        | APA01 – RF-Amplifier<br>0,5 GHz – 2,5 GHz          | NT-334          | Checked by:                      |
| i310s<br>Current Probe                      | NT-254/1      | Preamplifier<br>1 GHz - 4 GHz                      | NT-335          |                                  |
| Fluke 87 V<br>True RMS Multimeter           | NT-260        | Preamplifier for GPS<br>MKU 152 A                  | NT-336          |                                  |
| Model 2000<br>Digital Multimeter            | NT-261        | Preamplifier<br>100 MHz – 23 GHz                   | NT-337          |                                  |
| Fluke 87 V<br>Digital Multimeter            | NT-262/1      | DC Block 10 MHz – 18 GHz<br>Model 8048             | NT-338          |                                  |
| ESH2-Z5-U1 Artificial mains network 4x25A   | NT-300        | 2-97201<br>Electronic load                         | NT-341          |                                  |
| ESH3-Z5-U1 Artificial mains network 2x10A   | NT-301        | TSX3510P - Power supply 0-30 V / 0 - 10 A          | NT-344          |                                  |
| ESH3-Z6-U1 Artificial mains network 1x100A  | NT-302        | TSX3510P - Power supply 0-30 V / 0 - 10 A          | NT-345          |                                  |
| ESH3-Z6-U1 Artificial mains network 1x100A  | NT-302a       | VDS 200<br>Mobil-impuls-generator                  | NT-350          |                                  |
| PHE 4500/B<br>Power amplifier               | NT-304        | LD 200<br>Mobil-impuls-generator                   | NT-351          |                                  |
| PAS 5000<br>Power amplifier                 | NT-<br>304/1a | MPG 200<br>Mobil-Impuls-Generators                 | NT-352          |                                  |
| EZ10<br>T-Artificial Network                | NT-305        | EFT 200<br>Mobil-impuls-generator                  | NT-353          |                                  |
| SMG - Signal generator<br>0,1 - 1000 MHz    | NT-310        | AN 200 S1<br>Artificial Network                    | NT-354          |                                  |
| SMA100A - Signal generator<br>9 kHz - 6 GHz | NT-310/1      | FP-EFT 32M<br>3 ph. Coupling filter (Burst)        | NT-400/1        |                                  |
| RefRad<br>Reference generator               | NT-312        | PHE 4500 - Mains impedance network                 | NT-401          |                                  |
| SMP 02 Signal generator<br>10 MHz - 20 GHz  | NT-313        | IP 6.2 Coupling filter for data lines (Surge)      | NT-403          |                                  |
| 40 MHz Arbitrary Generator TGA1241          | NT-315        | TK 9421 High Power Volt. Probe<br>150 kHz - 30 MHz | NT-409          |                                  |
| Artificial mains network<br>NSLK 8127-PLC   | NT-316        | ESH2-Z3 - Probe<br>9 kHz - 30 MHz                  | NT-410          |                                  |
| Inrush Current Source for PAS 5000          | NT-317a       | IP 4 - Capacitive clamp (Burst)                    | NT-411          |                                  |
| Control and measurement device Sycore       | NT-318        | Highpass-Filter<br>100 MHz – 3 GHz                 | NT-412          |                                  |
| PEFT - Burst generator up to 4 kV           | NT-320        | Highpass-Filter<br>600 MHz – 4 GHz                 | NT-413          |                                  |
| ESD 30 System up to 25 kV                   | NT-321        | Highpass-Filter<br>1250 MHz – 4 GHz                | NT-414          |                                  |
| PSURGE 4.1<br>Surge generator               | NT-324        | Highpass-Filter<br>1800 MHz – 16 GHz               | NT-415          |                                  |
| TRANSIENT 1000<br>Immunity test system      | NT-325        |  |                 |                                  |
|   |               |  |                 |                                  |

# Appendix 1 (continued) Test equipment used



Division Medical

| Highpass-Filter<br>3500 MHz – 18 GHz           | NT-416 | FCC-801-S25 Coupling decoupling network            | NT-462             | Division Medical<br>Technology/<br>Communication<br>Technology/ EMC |
|--|--------|--|--------------------|---|
| RF-Attenuator 10 dB<br>DC – 18 GHz / 50 W      | NT-417 | FCC-801-T4 Coupling decoupling network             | NT-463             | Department: FG  |
| RF-Attenuator 6 dB<br>DC – 18 GHz / 50 W       | NT-418 | FCC-801-C1 Coupling decoupling network             | NT-464             | Test report number:<br>M/FG-15/118                                  |
| RF-Attenuator 3 dB<br>DC – 18 GHz / 50 W       | NT-419 | F-16A - Current probe<br>1kHz - 70MHz              | NT-465             | Page: 3 of 3  |
| RF-Attenuator 20 dB<br>DC - 1000 MHz / 25 W    | NT-421 | 95242-1 – Current probe<br>1 MHz – 400 MHz         | NT-468             | Date: 16.01.2015  |
| RF-Attenuator 30 dB<br>DC - 1000 MHz / 1 W     | NT-423 | 94106-1L-1 – Current probe<br>100 kHz – 450 MHz    | NT-471             | Checked by:///  |
| RF-Attenuator<br>30 dB                         | NT-424 | GA 1240 Power amplifier according to EN 61000-4-16 | NT-480             |   |
| RF-Attenuator 6 dB<br>DC - 1000 MHz / 1 W      | NT-425 | Coupling networks according to EN 61000-4-16       | NT-481 -<br>NT-483 |   |
| RF-Attenuator 6 dB<br>DC - 1000 MHz / 1 W      | NT-426 | Van der Hoofden Test Head                          | NT-484             |   |
| RF-Attenuator<br>6 dB                          | NT-428 | PC P4 3 GHz<br>Test computer                       | NT-500             |   |
| RF-Attenuator<br>0 dB - 81 dB                  | NT-429 | PC P4 1700 MHz<br>Notebook                         | NT-505             |   |
| WRU 27 - Band blocking<br>27 MHz               | NT-430 | Monitoring camera with Monitor                     | NT-511             |   |
| WHJ450C9 AA - High pass<br>450 MHz             | NT-431 | ES-K1 Version 1.71 SP2<br>Test software            | NT-520             |   |
| WHJ250C9 AA - High pass<br>250 MHz             | NT-432 | EMC32 Version 9.15<br>Test software                | NT-520/1           |   |
| RF-Load<br>150 W                               | NT-433 | SRM-TS Version 1.3 software for SRM-3000           | NT-522             |   |
| Impedance transducer<br>1:4; 1:9; 1:16         | NT-435 | SRM-TS Version 1.3.1 software for SRM-3006         | NT-522/1           |   |
| RF-Attenuator DC – 18 GHz<br>6 dB              | NT-436 | Spitzenberger und Spies<br>Test software V3.4      | NT-525             |   |
| RF-Attenuator DC – 18 GHz<br>6 dB              | NT-437 | Noise power test apparatus according to EN 55014   | NT-530             |   |
| RF-Attenuator DC – 18 GHz<br>10 dB             | NT-438 | Vertical coupling plane (ESD)                      | NT-531             |   |
| RF-Attenuator DC – 18 GHz<br>20 dB             | NT-439 | Test cable #4<br>for EN 61000-4-6                  | NT-553             |   |
| I+P 7780 Directional coupler<br>100 - 2000 MHz | NT-440 | Test cable #3 for conducted emission               | NT-554             |   |
| ESH3-Z2 - Pulse limiter<br>9 kHz - 30 MHz      | NT-441 | Test cable #5+#6<br>ESD-cable (2x470k)             | NT-555 +<br>NT-556 |   |
| Power Divider<br>6 dB/1 W/50 Ohm               | NT-443 | Test cable #8<br>Sucoflex 104EA                    | NT-559             |   |
| Directional coupler<br>0,1 MHz – 70 MHz        | NT-444 | Test cable #9 (for outdoor measurements)           | NT-580             |   |
| Directional coupler<br>0,1 MHz - 70 MHz        | NT-445 | Test cable #10 (for outdoor measurements)          | NT-581             |   |
| Tube imitations according to EN 55015          | NT-450 | Test cable #13<br>Sucoflex 104PE                   | NT-584             |   |
| FCC-801-M3-16A<br>Coupling decoupling network  | NT-458 | Test cable #21<br>for SRM-3000                     | NT-592             |   |
| FCC-801-M2-50A<br>Coupling decoupling network  | NT-459 | Shield chamber                                     | NT-600             |   |
| FCC-801-M5-25<br>Coupling decoupling network   | NT-460 | Climatic chamber                                   | M-1200             |   |
| FCC-801-AF10<br>Coupling decoupling network    | NT-461 |  |                    |   |



Description: View #1

Division Medical Technology/ Communication Technology/ EMC

Department: FG

Test report reference: M/FG-15/118

Page: 1 of 8

Date: 16.01.2015





Description: View #2 including label

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Test report reference: M/FG-15/118

Page: 2 of 8

Date: 16.01,2015





Description: Battery compartment opened

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Page: 3 of 8

Date: 16.01.2015





Description: Microphone cover detached

Division Medical Technology/ Communication Technology/ EMC

Department: FG

Test report reference: M/FG-15/118

Page: 4 of 8

Date: 16.01.2015

checked by: \_\_\_\_\_\_\_





Description: Case opened

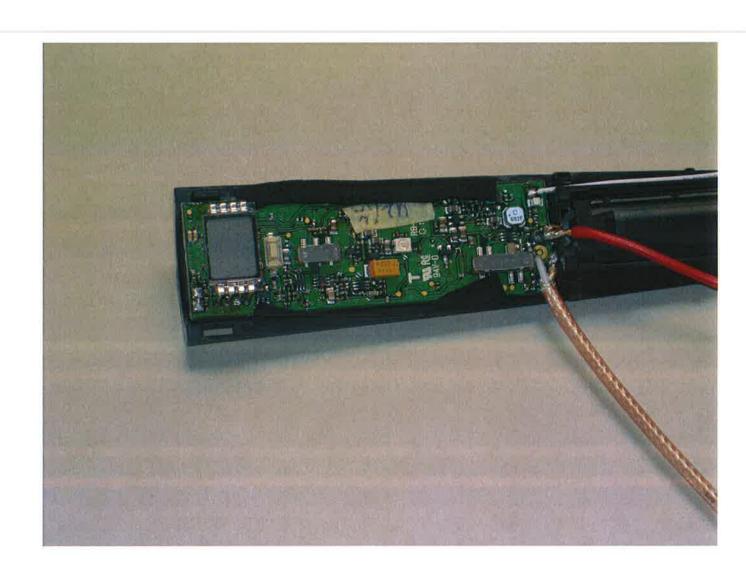
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Department: FG

Test report reference: M/FG-15/118

Page: 5 of 8

Date: 16.01.2015





Description: Inside view

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Test report reference: M/FG-15/118

Page: 6 of 8

Date: 16,01.2015





Description: RF screening detached

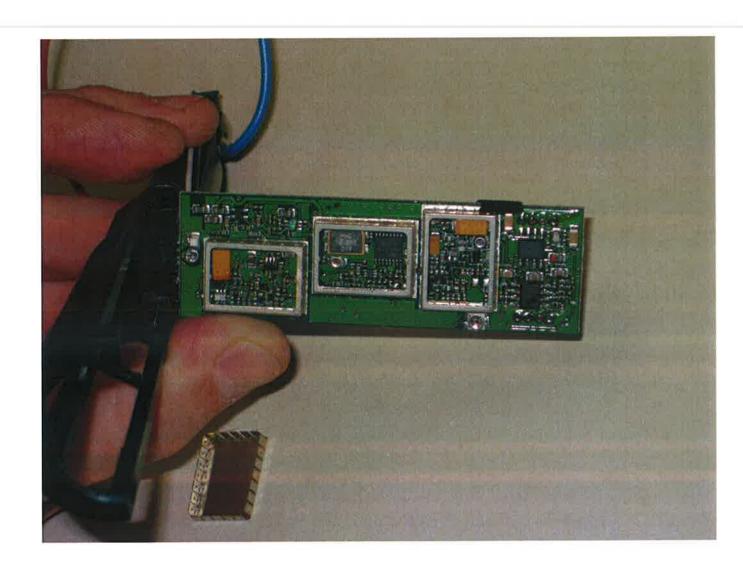
Division Medical Technology/ Communication Technology/ EMC

Department: FG

Test report reference: M/FG-15/118

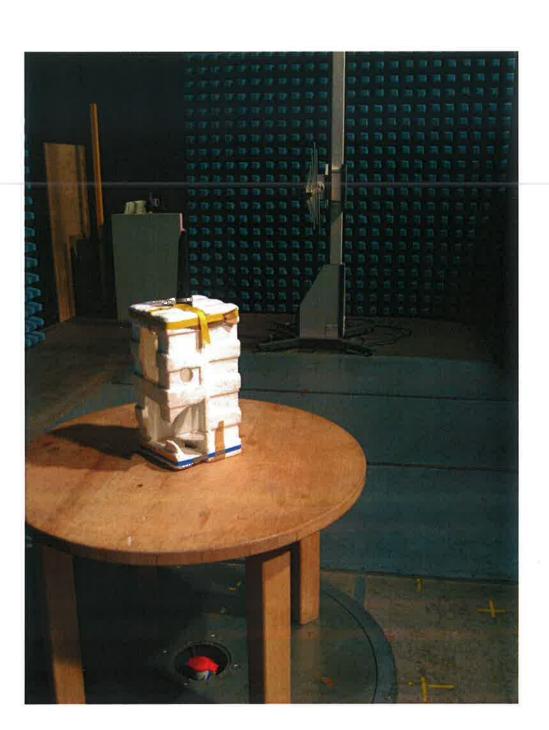
Page: 7 of 8

Date: 16.01.2015





Description: Test setup



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Department: FG

Test report reference: M/FG-15/118

Page: 8 of 8

Date: 16.01.2015