

TEST REPORT

FCC SAR Test for NX-5400-K3

Class II Permissive Change

APPLICANTJVCKENWOOD Corporation

REPORT NO. HCT-SR-2502-FC002-R1

DATE OF ISSUE March 10, 2025

Tested by Hae Sun Park

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TEST REPORT

FCC SAR Test for C2PC certification

REPORT NO.

HCT-SR-2502-FC002-R1

DATE OF ISSUE

Mar. 10, 2025

FCC ID:

ALH442000

| Applicant | JVCKENWOOD Corporation 3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan |
|------------------------------|---|
| Equipment Type Model Name | 700/800MHz DIGITAL TRANSCEIVER NX-5400-K2, NX-5400-K3, NX-5400-F2, NX-5400-F3, TK-5430-F2, TK-5430-F3, VP5430-F2, VP5430-F3, VP6430-F2, VP6430-F3 |
| Application Type | Class II Permissive Change |
| Date of Test | Jan. 20, 2025 |
| Location of Test | ■ Permanent Testing Lab□ On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea) |
| Test Standard Used | 47CFR § 2.1093 |
| Test Results | PASS (SAR Limit: 8.0 W/kg) Refer to the clause 3.3 Test Result |
| | The result shown in this test report refer only to the sample(s) tested unless otherwise stated. This test results were applied only to the test methods required by the standard. |

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REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue | Description |
|--------------|---------------|--------------------|
| 0 | Feb. 10, 2025 | Initial Release |
| 1 | Mar. 10, 2025 | Revised Section 13 |

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. Test Regulations

The tests were performed according to the following regulations:

| Test Standard | IEEE Standard 1528-2013& KDB procedures |
|---------------|--|
| Test Method | FCC KDB Publication 447498 D01 General SAR Guidance v06 FCC KDB Publication 865664 D01 SAR measurement 100 Mb to 6 GHz v01r04 FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02 FCC KDB Publication 865664 D02 SAR Reporting v01r02 FCC KDB Publication 643646 D01 SAR Test for PTT Radios v01r03 |

2. Test Location

2.1Test Laboratory

| Company Name | HCT Co., Ltd. |
|--------------|--|
| Address | 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea |
| Telephone | 031-645-6300 |
| Fax. | 031-645-6401 |

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3. Information of the EUT

3.1General Information of the EUT

| Model Name | NX-5400-K2, NX-5400-K3, NX-5400-F2, NX-5400-F3, TK-5430-F2, TK-5430-F3, VP5430-F2, VP5430-F3, VP6430-F3 |
|------------------|---|
| Equipment Type | 700/800MHz DIGITAL TRANSCEIVER |
| FCC ID | ALH442000 |
| Application Type | Class II Permissive Change |
| Applicant | JVCKENWOOD Corporation |

3.2Attestation of test result of device under test

| | | | Reported1g SAR (W/kg) | |
|------------------------------------|--|-----------------|--------------------------|----------------------------|
| Band | Tx. Frequency (Mtz) | Equipment Class | Hand-held to face SAR | Body-Worn Belt clip SAR |
| UHF (FCC) | 769 ~ 775, 799 ~ 805 806 ~ 824, 851 ~ 869 | TNF | 2.81 | 5.81 |
| Simultaneous transmission analysis | | 2.83 | 5.91 | |
| Date(s) of Tests: | Jan. 20, 2025 | | | |

Note

1.The Duty Cycle of PTT was 50% applied.(UHF)

The report contains the C2PC test results for the addition of battery models KNB-L13 and KNB-L12

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4. Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

4.1MaximumOutput Power

| Band | Frequency | Maximum Power |
|-----------|--|---------------|
| UHF | 769 MHz ~ 775 MHz 799 MHz ~ 805 MHz 806 MHz ~ 824 MHz 851 MHz ~ 869 MHz | 3 W |
| Bluetooth | 2 402 MHz ~ 2480 MHz | 2.5 mW |

4.2Output Average Conducted Power

4.2.1 UHF Conducted Power

| Frequency (Mtz) | Channel | Power(dBm) |
|-----------------|---------|------------|
| 769.05 | 1 | 34.65 |
| 799.05 | 2 | 34.71 |
| 815.05 | 3 | 34.77 |
| 851.05 | 4 | 34.75 |
| 868.95 | 5 | 34.69 |

For FCC Band:

Per KDB 447498 D01v06 Page 7 section 6) pages 7-8, the number of channels required to be tested is as follows.

 $F_{high} = 869 \text{ MHz}$

 $F_c = 819 \text{ MHz}$

 $F_{Low} = 769 \text{ MHz}$

N $_c$ = Round {[100(f $_{high}$ - f $_{low}$) / f $_c$] $^{0.5}$ X (f $_c$ / 100) $^{0.2}$ } = Round {[100(869-769) /819] $^{0.5}$ X (819/100) $^{0.2}$ } = 5 Therefore, for the frequency band from 769 MHz to 869 MHz, 5channels are required for testing.

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5. SAR Test Exclusion Applied

Bluetooth for FCC

Per FCC KDB 447498 D01 ν 06, The SAR exclusion threshold for distance < 50mm is defined by the following equation:

 $\frac{\textit{Max Power of Channel}(\textit{mW})}{\textit{Test Separation Distance (mm)}} * \sqrt{\textit{Frequency}(\textit{GHz})} \leq 3.0 \text{ for } 1 - \text{g SAR}$

| Mode | Frequency | Maximum Allowed Power | Separation Distance | ≤ 3.0 for 1g SAR |
|-----------|-----------|-----------------------|------------------------|------------------|
| | [MHz] | [mW] | [mm] | |
| Bluetooth | 2 480 | 2.5 | 5 | 0.8 |

Based on the maximum conducted power of Bluetooth and antenna to use separation distance, Bluetooth SAR was not required $[(2.5/5)^*\sqrt{2.480}] = 0.8 < 3.0$.

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v06 IV.C.1iii, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is \leq 1.6W/kg. When standalone SAR is not required to be measured per FCC KDB 447498 D01v06 4.3.22, the following equation must be used to estimate the standalone 1-g SAR and 10g SAR for simultaneous transmission assessment involving that transmitter.

$$Estimated \ SAR = \frac{\sqrt{f(GHZ)}}{7.5} * \frac{(Max \ Power \ of \ channel \ mW)}{Min \ Seperation \ Distance}.$$
 Estimated 1-g SAR

| Mode | Frequency | Maximum Allowed Power | Separation Distance (Head) | Estimated 1g SAR (Head) |
|-----------|-----------|--------------------------|----------------------------|-------------------------|
| | [MHz] | [mW] | [mm] | [W/kg] |
| Bluetooth | 2 480 | 2.5 | 25 | 0.021 |

| Mode | Frequency | Maximum Allowed Power | Separation Distance (Body) | Estimated 1g SAR (Body) |
|-----------|-----------|--------------------------|----------------------------|-------------------------|
| | [MHz] | [mW] | [mm] | [W/kg] |
| Bluetooth | 2 480 | 2.5 | 5 | 0.105 |

Note:

Held-to ear configurations are not applicable to Bluetooth operations and therefore were not considered for simultaneous transmission. The Estimated SAR results were determined according to FCC KDB447498 D01v06.

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5. Manufacturer's Accessory List

| Part Number | Description | Accessory Type | Accessory No |
|----------------|--|-----------------|--------------|
| KNB-L2 | Li-lon, 2500 mAh | | 1 |
| KNB-L3 | Li-lon, 3240 mAh | | 2 |
| KNB-L1 | Li-lon, 2150 mAh | | 3 |
| KNB-LS7 | Li-Ion, 3800 mAh | Battery | 4 |
| KNB-L11 | Li-lon, 3900 mAh | | 5 |
| KNB-L13 | Li-ion, 4000mAh Battery | | 6 |
| KNB-L12 | Li-ion, 3000mAh Battery | | 7 |
| KRA-32 | UHF Stubby Antenna | Australia | 1 |
| KRA-36 | UHF Stubby Antenna | Antenna | 2 |
| KMC-54WD | Speaker Microphone with DSP Voice Enhancement Technology | | 1 |
| KMC-25 | MIL-SPEC. Noise-canceling Speaker mic | | 2 |
| KMC-41 | MIL-SPEC. IP54/55 Noise-canceling Speaker mic | | 3 |
| KMC-41D | MIL-SPEC. IP54/55 Noise-canceling Speaker mic | | 4 |
| KMC-42W | MIL-SPEC. IP67 (immersion) Noise-canceling Speaker mic | | 5 |
| KMC-42WD | MIL-SPEC. IP67 (immersion) Noise-canceling Speaker mic | | 6 |
| KMC-47GPS | GPS Speaker Microphone | | 7 |
| KMC-47GPSD | GPS Speaker Microphone | | 8 |
| KMC-49 | MIL-SPEC. Speaker Mic. With Antenna Connector | | 9 |
| KEP-1 | 3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics | | 10 |
| KEP-2 | 2.5mm earphone kit for KMC-17/45 Speaker Mics | A 1: A | 11 |
| KEP-3 | 30" Earphone kit w/ 2.5mm plug for KCT-30 | Audio Accessory | 12 |
| KEP-4 | 48" Earphone kit w/ 2.5mm plug for KCT-30 | | 13 |
| KCT-30 | 2.5mm Audio Accessory Adapter for KEP-3/4 | | 14 |
| KCT-51 | Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector) | | 15 |
| KHS-11BE | 2-wire palm mic w/earphone, universal connector (Beige) | | 16 |
| KHS-11BL | 2-wire palm mic w/earphone, universal connector (Black) | | 17 |
| KHS-12BE | 3-wire mini lapel mic w/earphone, universal connector (Beige) | | 18 |
| KHS-12BL | 3-wire mini lapel mic w/earphone, universal connector (Black) | | 19 |
| KHS-14 | Lt. Wt. Single muff headset w/ boom mic & in-line PTT | | 20 |
| KHS-15-OH | Hy-duty noise reduction behind-the-head w/ noise-cancelling boom mic and in-line PTT | | 21 |
| KHS-15-BH | Hy-duty noise reduction over-the-head w/ noise-cancelling boom mic and in-line PTT | | 22 |
| KBH-11 | Belt Clip | | 1 |
| KBH-8DS | Leather swivel belt loop with portable D-ring attachment | | 2 |
| KLH-6SW | Leather swivel belt loop with detachable D-ring back | | 3 |
| KLH-200(K2/K3) | Leather Case (Standard/Full key) | | 4 |
| KLH-137ST | Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case | Body Worn | 5 |
| KLH-201(K2/K3) | Nylon Case (Standard/Full key) Cordura Nylon | Accessory | 6 |
| KLH-37BT | Universal "48" Leather Belt | | 7 |
| KLH-38ST | Shoulder Strap | | 8 |
| KLH-35W | Swivel Belt Loop | | 9 |
| KLH-202(P/P2) | Leather Case (Standard/Full) | | 10 |

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* Note: Battery Dimensions

| No. | description | Size (mm) |
|---------|------------------------|-----------------------|
| KNB-L1 | 2000mAh Li-ion Battery | WHD 58 x 116.4 x 17.5 |
| KNB-L2 | 2600mAh Li-ion Battery | WHD 58 x 116.4 x 20.5 |
| KNB-L3 | 3400mAh Li-ion Battery | WHD 58 x 116.4 x 25.9 |
| KNB-LS7 | 3800mAh Li-ion Battery | WHD 58 x 116.4 x 26.9 |
| KNB-L11 | 3900mAh Li-ion Battery | WHD 58 x 116.4 x 27.9 |
| KNB-L12 | 3000mAh Li-ion Battery | WHD 58 x 116.4 x 19.4 |
| KNB-L13 | 4000mAh Li-ion Battery | WHD 58 x 116.4 x 23.5 |

This SAR report is the result of a change test for the addition of a battery Since the additional battery has the biggest capacity of the battery, the Head Face SAR test were performed the Full SAR test and the body worn SAR were evaluated under the worst case condition of the original SAR report.

The additional battery KNB-L13 was tested in Hand -held to Face because it is the Highest capacity. The body worn tests for additional batteries KNB-L12 and KNB-L13 were performed in the worst case of the original report[Report No:SAR.20140606].

* Radio Face Test (Hand-held to Face)

| Battery 6 | | | | | | | | | |
|-----------|-------|--|--|--|--|--|--|--|--|
| Ant.1 | Ant.2 | | | | | | | | |
| Yes | Yes | | | | | | | | |
| Batte | ery 7 | | | | | | | | |
| Ant.1 | Ant.2 | | | | | | | | |
| Yes | Yes | | | | | | | | |

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*Radio Body Test (Body-Worn)

| Mircophones&Audio | | | | Battery | | | |
|-------------------|-----|-----|-----|---------|-----|-----|-----|
| Accessory | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 2 | No | No | No | No | No | No | No |
| 3 | No | No | No | No | No | No | No |
| 4 | No | No | No | No | No | No | No |
| 5 | No | No | No | No | No | No | No |
| 6 | No | No | No | No | No | No | No |
| 7 | No | No | No | No | No | No | No |
| 8 | No | No | No | No | No | No | No |
| 9 | No | No | No | No | No | No | No |
| 10 | No | No | No | No | No | No | No |
| 11 | No | No | No | No | No | No | No |
| 12 | No | No | No | No | No | No | No |
| 13 | No | No | No | No | No | No | No |
| 14 | No | No | No | No | No | No | No |
| 15 | No | No | No | No | No | No | No |
| 16 | No | No | No | No | No | No | No |
| 17 | No | No | No | No | No | No | No |
| 18 | No | No | No | No | No | No | No |
| 19 | No | No | No | No | No | No | No |
| 20 | No | No | No | No | No | No | No |
| 21 | No | No | No | No | No | No | No |
| 22 | No | No | No | No | No | No | No |

^{*} Manufacture's disclosed accessory listing information provided by Kenwood corporation.

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6. Introduction

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dW) of a given density (r). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right)$$

Figure 1. SAR Mathematical Equation SAR is expressed in units of Watts per Kilogram (W/kg)

$$SAR = \sigma E^2 / \rho$$

Where:

 σ = conductivity of the tissue-simulant material (S/m) ρ = mass density of the tissue-simulant material (kg/m³) E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

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7. Description of test equipment

7.1SAR MEASUREMENT SETUP

These measurements are performed using the DASY5 automated dosimetric assessment system.It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists ofhigh precision robotics system (Staubli), robot controller, Pentium III computer, near-fieldprobe, probe alignment sensor, and the generic twin phantom containing the brain equivalentmaterial. The robot is a six-axis industrial robot performing precise movements to position theprobe to the location (points) of maximum electromagnetic field (EMF) (see Figure.2).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC with Windows XPor Windows 7is working with SAR Measurement system DASY5, A/Dinterface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cellcontroller to allow software manipulation of the robot. A data acquisition electronic (DAE)circuit performs the signal amplification, signal multiplexing, AD-conversion, offsetmeasurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digitalelectric signal of the DAE and transfers data to the PC plug-in card.

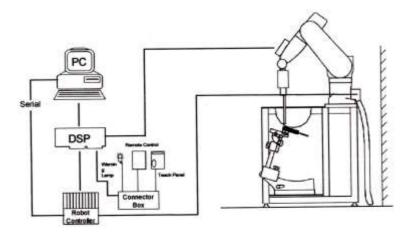


Figure 2. HCT SAR Lab. Test Measurement Set-up

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.

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7.2ELI Phantom

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range

of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG diametric probes and dipoles.



Figure 6.1ELI Phantom

Shell Thickness Filling Volume Dimensions 2.0 ± 0.2 mm approx. 30 liters Major axis: 600 mm, Minor axis: 400 mm

7.3Device Holder for Transmitters

Device Holder – Mounting Device

In combination with the SAM Phantom, the Mounting Device enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatable positioned according to the EN 50360:2001/A:2001 and FCC KDB specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).

Note: A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produced infinite number of configurations. To produce the Worst-case condition (the hand absorbs antenna output power), the hand is omitted during the tests.



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7.4 Validation Dipole

The reference dipole should have a return loss better than -20 dB (measured in the setup) at the resonant frequency to reduce the uncertainty in the power measurement.

Dipole

| | System Validation Dipole | | | | | | | | | | |
|---------------------|--|---|--|--|--|--|--|--|--|--|--|
| Description | ymmetricaldipole with $\lambda/4$ balun. Enables measurement of feedpoint impedance with network analyzer (NWA). Matched for use near flat phantoms filled with tissue simulating liquids. | | | | | | | | | | |
| Frequency | 835 MHz | | | | | | | | | | |
| Return Loss | > 20 dB at specified validation position | | | | | | | | | | |
| Power Capability | > 100 W (f< 1GHz), >40 W (f > 1 GHz) | | | | | | | | | | |
| Dimension | D835V2: dipole length:161.0 mm; overall height:340.0 mm | 1 | | | | | | | | | |

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7.5 Brain & Muscle Tissue Simulating Mixture Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethylcellulose (HEC) gelling agent and

saline solution (see Table 1). Preservation with a bactericide is added and visual inspection is made to makesure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain properdielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for

the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Hartsgrove.

| Frequency (MHz) | 30 | 30 50 | | 1- | 44 | 4 | 150 | 835 | 90 | 00 |
|--|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| Recipe source number | 3 | 3 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 4 |
| Ingredients (% by weight) | | | • | • | • | | | • | • | • |
| Deionised water | 48,30 | 48,30 | 53,53 | 55,12 | 48,30 | 48,53 | 56 | 50,36 | 50,31 | 56 |
| Tween | | | 44,70 | 43,31 | | 49,51 | | 48,39 | 48,34 | |
| Oxidised mineral oil | | | | | | | 44 | | | 44 |
| Diethylenglycol monohexylether | | | | | | | | | | |
| Triton X-100 | | | | | | | | | | |
| Diacetin | 50,00 | 50,00 | | | 50,00 | | | | | |
| DGBE | | | | | | | | | | |
| NaCl | 1,60 | 1,60 | 1,77 | 1,57 | 1,60 | 1,96 | | 1,25 | 1,35 | |
| Additives and salt | 0,10 | 0,10 | | | 0,10 | | | | | |
| Measured dielectric paramete | rs | | | | | | | | | |
| ¢,' | 54,2 | 53,1 | 54,54 | 52,81 | 51,0 | 43,29 | 42,3 | 41,6 | 41,0 | 40,6 |
| σ (S/m) | 0,75 | 0,75 | 0,76 | 0,76 | 0,77 | 0,88 | 0,84 | 0,90 | 0,98 | 0,98 |
| Temp. (*C) | | | 21 | 21 | | 21 | 20 | 21 | 21 | 20 |
| r_temp_liquid _{uncertainty} (%) | 0,8 | 0,1 | | | 0,1 | 0,1 | | 0,04 | 0,04 | |
| σ_temp_liquid _{uncertainty} (%) | 2,8 | 2,8 | | | 2,6 | 4,2 | | 1,6 | 1,6 | |
| Target values (from Table 1) | | | | | | | | | | |
| ¢,' | 55,0 | 54 | ,5 | 52,4 | | 43,5 | | 41,5 | 41,5 | |
| σ (S/m) | 0,75 | 0, | 75 | 0, | 76 | 0 | ,87 | 0,90 | 0,9 | 97 |

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8. SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013.

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 table 4-1 & IEEE 1528-2013.
- 2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
- 3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tipof the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2mm. Theextrapolation was based on a least square algorithm. A polynomial of the fourth order wascalculated through the points in z-axes. This polynomial was then used to evaluate the points betweenthe surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x,y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 3. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by morethan 5%, the SAR evaluation and drift measurements were repeated.

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Area scan and zoom scan resolution setting follow KDB 865664 D01v01r04 quoted below.

| | | | ≤ 3 GHz | > 3 GHz | | |
|---|------------|---|---|---|--|--|
| Maximum distance fro point (geometric center of p surface | | | 5±1 mm | ·δ·ln(2)±0.5 mm | | |
| Maximum probe angle surfacenormal at the r | | | 30° ±1 ° | 20° ±1 ° | | |
| | | | ≤ 2 GHz: ≤15 mm 2-3 GHz: ≤12 mm | 3-4 GHz: ≤12 mm 4-6 GHz: ≤10 mm | | |
| Maximum area scanՏր | oatial res | olution: ΔΧ _{ΑΓΕΆ} , Δ Υ ΑΓΕΆ | When the x or y dimension of the test device, if the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device. | | | |
| Maximum zoom scan : Δ y zoom | Spatial re | esolution: Δχ_{zoom}, | ≤ 2 GHz: ≤8mm 2-3 GHz: ≤5mm* | 3-4 GHz: ≤5 mm* 4-6 GHz: ≤4 mm* | | |
| | uniform | n grid: Δz_{zoom}(n) | ≤ 5 mm | 3-4 GHz: ≤4 mm 4-5 GHz: ≤3 mm 5-6 GHz: ≤2 mm | | |
| Maximum zoom scan Spatial resolution normal to phantom surface | graded | Δz _{zoom} (1): between1 st two Points closest to phantom surface | ≤ 4 mm | 3-4 GHz: ≤3 mm 4-5 GHz: ≤2.5 mm 5-6 GHz: ≤2 mm | | |
| | grid | Δz _{zoom} (n>1): between subsequent Points | ≤1.5 · Δz _{zoom} (n-1) | | | |
| Minimum zoom scan volume | x, y, z | | ≥ 30 mm | 3-4 GHz: ≥28 mm 4-5 GHz: ≥25 mm 5-6 GHz: ≥22 mm | | |

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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^{*} When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



9. Description of Test Position

9.1Body Holster/Belt Clip Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the deviceand positioned against a flat phantom in a normal use configuration. A device with a headset output is tested with a headset connected to the device. Body dielectric parameters are used.

Accessories for Body-worn operation configurations are divided into two categories: those that donot contain metallic components and those that contain metallic components. When multipleaccessories that do not contain metallic components are supplied with the device, the device istested with only the accessory that dictates the closest spacing to the body. Then multipleaccessories that contain metallic components are tested witheach accessory. If multiple accessory share an identicalmetallic component (i.e. the same metallic belt-clip used with different holsters with no other metalliccomponents) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some Devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used.

Since this EUT does not supply anybody worn accessory to the end user a distance of 0 cm from the EUT back surface to the liquid interface is configured for the generic test.

"See the Test SET-UP Photo"

Transmitters that are designed to operate in front of a person's face, as in push-to-talkconfigurations, are tested for SAR compliance with the front of the device positioned to face the flatphantom. For devices that are carried next to the body such as a shoulder, waist or chest-worntransmitters, SAR compliance is tested with the accessory(ies), Including headsets andmicrophones, attached to the device and positioned against a flat phantom in a normal useconfiguration.

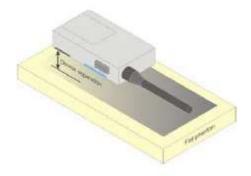
In all cases SAR measurements are performed to investigate the worst-case positioning. Worstcasepositioning is then documented and used to perform Body SAR testing.

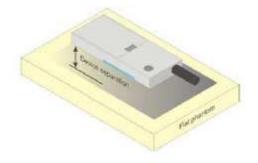
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9.2Hand-held to Face device

A typical example of a front-of-face device is a two-way radio that is held at a distance from the face of the user when transmitting. In these cases the device under test shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 25 mm⁵ between the phantom surface and the device shall be used.





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10.RF Exposure Limits

| HUMAN EXPOSURE | UNCONTROLLED ENVIRONMENT General Population (W/kg) | CONTROLLED ENVIRONMENT Occupational (W/kg) | | | |
|--|---|---|--|--|--|
| SPATIAL PEAK SAR * (Brain) | 1.60 | 8.00 | | | |
| SPATIAL AVERAGE SAR ** (Whole Body) | 0.08 | 0.40 | | | |
| SPATIAL PEAK SAR *** (Hands / Feet / Ankle / Wrist) | 4.00 | 20.00 | | | |

Table 10.1 Safety Limits for Partial Body Exposure

NOTES:

- * The Spatial Peak value of the SAR averaged over any 1 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
 - ** The Spatial Average value of the SAR averaged over the whole-body.
- *** The Spatial Peak value of the SAR averaged over any 10 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be mad fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

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11. System Verification

11.1 Tissue Verification

The Head simulating material is calibrated by HCT using the DAKS 12 to determine the conductivity and permittivity.

| | Table for Head Tissue Verification | | | | | | | | | | | | | |
|------------------|------------------------------------|----------------|-------------------------------------|-------|--------|-----------------------------------|-------------------------------------|---------|---------|--|--|--|--|--|
| Date of Tests | Tissue Temp. (°C) | Tissue Type | vne (MHz) Conductivity Dielectric | | | Target Conductivity σ (S/m) | Target Dielectric Constant, ε | % dev σ | % dev ε | | | | | |
| | 20.0 | | 820 | 0.930 | 42.900 | 0.899 | 41.577 | 3.45 | 3.18 | | | | | |
| 01/20/2025 | | 02511 | 835 | 0.944 | 42.700 | 0.900 | 41.500 | 4.89 | 2.89 | | | | | |
| 01/20/2025 | 20.0 | 835H | 850 | 0.958 | 42.600 | 0.916 | 41.500 | 4.59 | 2.65 | | | | | |
| | | | 870 | 0.977 | 42.300 | 0.938 | 41.500 | 4.16 | 1.93 | | | | | |

11.2 System Verification

* Input Power:50 mW

| Freq. | Date | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR _{1g} (SPEAG) [W/kg] | 50 mW Measured SAR _{1g} [W/kg] | 1 W Normalized SAR _{1g} [W/kg] | Deviation [%] | Limit [%] |
|-------|------------|----------------|-----------------|--------|-----------------------|-------------------------|--|--|--|------------------|--------------|
| 835 | 01/20/2025 | 7655 | 441 | Head | 20.1 | 20.0 | 9.73 | 0.516 | 10.32 | 6.06 | ± 10 |

11.3 System Verification Procedure

SAR measurement was prior to assessment, the system is verified to the \pm 10 % of the specifications at each frequencyband by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

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12. SAR Test Data Summary

12.1 Hand-held to Face SAR Results

| | | | | | UHF Ha | nd-held to Fac | e SAR | | | | | |
|--------------|--------------------|------|---------------------------|----------------------------|------------------------|----------------|---------|--------------------------------|----------------------------|-------------|---------------------------|-------------|
| Model Mame | Frequency (MHz) | Ch. | Tune-Up Limit (dBm) | Measured Power (dBm) | Power Drift (dB) | Battery | Antenna | Separation Distance (mm) | Measure d SAR (W/Kg) | 50% Duty | Reported SAR (W/Kg) | Plot No. |
| NX-5400-K3 | 815.05 | 3 | 34.77 | 34.77 | -0.22 | KNB-L13 | KRA-32 | 25 | 1.73 | 0.865 | 0.910 | - |
| NX-5400-K3 | 815.05 | 3 | 34.77 | 34.77 | -0.15 | KNB-L13 | KRA-36 | 25 | 4.72 | 2.360 | 2.443 | - |
| NX-5400-K3 | 815.05 | 3 | 34.77 | 34.77 | -0.27 | KNB-L12 | KRA-36 | 25 | 5.19 | 2.595 | 2.761 | - |
| NX-5400-K2 | 815.05 | 3 | 34.77 | 34.77 | -0.21 | KNB-L12 | KRA-36 | 25 | 5.35 | 2.675 | 2.808 | 1 |
| | | ANSI | / IEEE C95 | .1 - 2005 – | Safety Lir | nit | | | H | lead | | |
| Spatial Peak | | | | | | | | | 8 | W/kg | | |
| | | Con | trolled Ex | posure/ Od | ccupation | al | | Averaged over 1 gram | | | | |

12.2Body-worn Belt clip SAR Results

| | | | | | UH | F Body-w | orn Belt cli | ip SAR | | | | | |
|------------|--------------------|-----|---------------------------|----------------------------|------------------------|----------|--------------|-----------|--------------------------------|---------------------------|-------------|---------------------------|-------------|
| Model Mame | Frequency (MHz) | Ch. | Tune-Up Limit (dBm) | Measured Power (dBm) | Power Drift (dB) | Battery | Antenna | Belt Clip | Separation Distance (mm) | Measured SAR (W/Kg) | 50% Duty | Reported SAR (W/Kg) | Plot No. |
| NX-5400-K3 | 799.05 | 2 | 34.77 | 34.71 | -0.05 | KNB-L12 | KRA-32 | KBH-11 | 0 | 3.40 | 1.700 | 1.744 | - |
| NX-5400-K3 | 799.05 | 2 | 34.77 | 34.71 | -0.05 | KNB-L13 | KRA-32 | KBH-11 | 0 | 3.43 | 1.715 | 1.759 | - |
| NX-5400-K3 | 815.05 | 3 | 34.77 | 34.75 | -0.02 | KNB-L12 | KRA-36 | KBH-11 | 0 | 9.12 | 4.560 | 4.602 | - |
| NX-5400-K3 | 815.05 | 3 | 34.77 | 34.75 | -0.06 | KNB-L13 | KRA-36 | KBH-11 | 0 | 7.81 | 3.905 | 4.033 | - |
| NX-5400-K2 | 815.05 | 3 | 34.77 | 34.75 | -0.06 | KNB-L12 | KRA-36 | KBH-11 | 0 | 11.4 | 5.700 | 5.806 | 2 |
| | | ANS | I/ IEEE C95 | .1 - 2005 | – Safe | ty Limit | | | | Во | dy | | |
| | Spatial Peak | | | | | | | | | | //kg | | |
| | | Cor | ntrolled Ex | posure/ | Occupa | ational | | | | Averaged o | ver 1 gı | ram | |

Note: Speaker Microphone (KMC-54WD)

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12.3 SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
- 2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
- 6. Test signal call mode is Manual test cord.
- 7. The EUT was tested for face-held SAR with a 2.5cm separation distance between the front of the EUT and the outer surface of the planer phantom
- 8. The Body-worn SAR evaluation was performed with the Balt-clip body-worn accessoryand audio accessory attached to the DUT and touching the outer surface of the planar phantom.
- 9. The adjusted SAR value was calculated by first scaling the SAR value up by the drift. This value was then scaled up based on the difference of the upper end the tolerance and the measured conducted power. The resultant value is then multiplied by 0.5 to give the SAR value at 50% duty cycle.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06. Test Procedures applied in accordance with FCC KDB 643646 D01v01r03
- 11. Measurement was reduced per KDB 643646 D01v01r03.
- 12. When the SAR for all antennas tested using the default battery is \leq 3.5 W/kg, testing of all other required channels is not necessary.
- 13. When the SAR of an antenna tested on the highest output power using the default battery is >3.5 W/Kg and ≤4.0 W/Kg, testing of the immediately adjacent channel(s) is not necessary, but testing of other required channels may still be required.
- 14. When the SAR for all antennas tested using the default battery \leq 4.0 W/kg, test additional batteries using the antenna and channel configuration that resulted in the highest SAR.
- 15. When the SAR of an antenna tested on the highest output power channel using the default battery is > 4.0 W/kg and ≤6.0 W/kg, testing of the required immediately adjacent channel(s) is necessary. For the remaining channels that cannot be excluded, this rule may be applied recursively with respect to the highest output power channel among the remaining channels.
- 16. Based on the SAR measured in the body-worn test sequence with default audio accessory, if the SAR for the antenna, body-worn accessory and battery combination(s) applicable to an audio accessory is/are >4.0 W/kg and <6.0 W/kg, test that audio accessory using the highest body-worn SAR combination(antenna, battery and body-worn accessory) and channel configuration previously identified that is applicable to the audio accessory.
- 17. When the SAR of an antenna tested is > 6.0 W/kg, test that battery and antenna combination with the default body-worn and audio accessory on the required immediately adjacent channels.
- 18. If the SAR measured >7.0 W/kg, test that battery, antenna, body-worn and audio accessory combination on all required channels.
- 19. Refer to original Body-worn SAR Data in [Report No:SAR.20140606].

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13. Simultaneous SAR Analysis

This device is containing transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is \leq 8.0W/kg for 1g SAR and \leq 20.0 W/kg for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

The Bluetooth can transmit simultaneously with the PTT Radio.

13.1 Body-Worn Belt clipSAR Simultaneous Transmission Analysis

| Simultaneous Transmission Summation Scenario | | | | | | |
|--|---------------------|----------|---------------------------|-----------|--|--|
| | Band | Main SAR | Estimated Bluetooth/LE | Σ 1-g SAR | | |
| Bana | | (W/kg) | (W/kg) | (W/kg) | | |
| UHF | Hand-held to Face | 2.808 | 0.021 | 2.831 | | |
| UHF | Body-Worn Belt clip | 5.806 | 0.105 | 5.911 | | |

Note: Bluetooth SAR was not required to be measured per FCC KDB 447498 D01v06.Estimated SAR results were used for SAR summation for body-worn back side at 5 mm to determine simultaneous transmission SAR test exclusion.

The simultaneous transmission summation is applied only for body-worn case according to user condition. Bluetooth transmission is using for Bluetooth headset when DUT is on the body-worn case.

13.2 Simultaneous Transmission Conclusion

The above numerical summed TER results for all the worst-case simultaneous transmission conditions were below the TER limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the TER limit. And therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013.

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14. Measurement Uncertainty

Measurement Uncertainty for DUT SAR test According to KDB Publication 865664 D01 and IEEE Std 1528-2013

| а | b | с | d | е | f | g | h = c x f/e | i= cxg/e | k |
|---|-------------|--------------------|--------------------------|------|-------|--------|-------------------------|-------------------------|------------|
| Source of uncertainty | Description | Uncertainty ± % | Probability distribution | Div. | Ci | Ci | Standard Uncertainty | Standard Uncertainty | Vi Or Veff |
| | | | | | (1 g) | (10 g) | ± % (1 g) | ± % (10 g) | |
| Measurement system | | | | | | | | | |
| Probe calibration | 7.2.2.1 | 6.55 | N | 1 | 1 | 1 | 6.55 | 6.55 | 00 |
| Axial isotropy | 7.2.2.2 | 4.70 | R | 1.73 | 0.71 | 0.71 | 1.92 | 1.92 | 00 |
| Hemispherical isotropy | 7.2.2.2 | 9.60 | R | 1.73 | 0.71 | 0.71 | 3.92 | 3.92 | 00 |
| Boundary effect | 7.2.2.6 | 2.00 | R | 1.73 | 1 | 1 | 1.15 | 1.15 | 00 |
| Linearity | 7.2.2.3 | 4.70 | R | 1.73 | 1 | 1 | 2.71 | 2.71 | 00 |
| Detection limits | 7.2.2.5 | 1.00 | R | 1.73 | 1 | 1 | 0.58 | 0.58 | 00 |
| Modulation response | 7.2.2.4 | 2.40 | R | 1.73 | 1 | 1 | 1.39 | 1.39 | 00 |
| Readout electronics | 7.2.2.7 | 0.30 | N | 1 | 1 | 1 | 0.30 | 0.30 | 00 |
| Response time | 7.2.2.8 | 0.80 | R | 1.73 | 1 | 1 | 0.46 | 0.46 | 00 |
| Integration time | 7.2.2.9 | 2.60 | R | 1.73 | 1 | 1 | 1.50 | 1.50 | 00 |
| RF ambient conditions - noise | 7.2.4.5 | 3.00 | R | 1.73 | 1 | 1 | 1.73 | 1.73 | 00 |
| RF ambient conditions - reflections | 7.2.4.5 | 3.00 | R | 1.73 | 1 | 1 | 1.73 | 1.73 | 00 |
| Probe positioner mechanical tolerance | 7.2.3.1 | 0.80 | R | 1.73 | 1 | 1 | 0.46 | 0.46 | 00 |
| Probe positioning with respect to phantom shell | 7.2.3.3 | 6.70 | R | 1.73 | 1 | 1 | 3.87 | 3.87 | 00 |
| Post-processing | 7.2.5 | 4.00 | R | 1.73 | 1 | 1 | 2.31 | 2.31 | 00 |
| Test sample related | | | | | • | • | | | |
| Test sample positioning | 7.2.3.4.3 | 6.15 | N | 1 | 1 | 1 | 6.15 | 6.15 | 00 |
| Device holder uncertainity | 7.2.3.4.2 | 2.71 | N | 1 | 1 | 1 | 2.71 | 2.71 | 00 |
| SAR drift measurement | 7.2.2.10 | 5.00 | R | 1.73 | 1 | 1 | 2.89 | 2.89 | 00 |
| SAR scaling | L.3 | 0.00 | R | 1.73 | 1 | 1 | 0.00 | 0.00 | 00 |
| Phantom and set-up | | | | | | | | | |
| Phantom uncertainty (shape and thickness uncertainty) | 7.2.3.2 | 7.60 | R | 1.73 | 1 | 1 | 4.39 | 4.39 | 00 |
| Incertainty in SAR correction for deviations in permittivity and conductivity | 7.2.4.3 | 1.90 | N | 1 | 1 | 0.84 | 1.90 | 1.60 | 00 |
| Liquid conductivity (temperature uncertainty) | 7.2.4.4 | 0.25 | R | 1.73 | 0.78 | 0.71 | 0.11 | 0.10 | 00 |
| ciquid conductivity (measured) | 7.2.4.3 | 1.51 | N | 1 | 0.78 | 0.71 | 1.18 | 1.07 | 00 |
| ciquid permittivity (temperature uncertainty) | 7.2.4.4 | 0.52 | R | 1.73 | 0.23 | 0.26 | 0.07 | 0.08 | ∞ |
| iquid permittivity (measured) | 7.2.4.3 | 1.17 | N | 1 | 0.23 | 0.26 | 0.27 | 0.30 | ∞ |
| Combined standard uncertainty | | | RSS | | | | 13.41 | 13.36 | 00 |
| Expanded uncertainty (95% confidence interval) | | | k = 2 | | | 1 | 26.82 | 26.72 | |

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15. SAR Test Equipment

All measurements were performed within the valid calibration period of the specific equipment.

| Manufacturer | Type / Model | S/N | Calib. Date | Calib.Interval | Calib.Due |
|--------------------|----------------------------------|--------------------|-------------|----------------|------------|
| SPEAG | ELI Phantom | - | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX60 | F/20/0018446/C/001 | N/A | N/A | N/A |
| Staubli | TX-60 Lspeag | F/20/0018446/A/001 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | 020885 | N/A | N/A | N/A |
| Staubli | Light Alignment Sensor | 1159 | N/A | N/A | N/A |
| TESTO | 175-H1/Thermometer | 44606611906 | 03/20/2024 | Annual | 03/20/2025 |
| SPEAG | DAE4 | 1686 | 06/19/2024 | Annual | 06/19/2025 |
| SPEAG | E-Field Probe EX3DV4 | 7655 | 05/27/2024 | Annual | 05/27/2025 |
| SPEAG | Dipole D835V2.5 | 441 | 04/18/2024 | Annual | 04/18/2025 |
| Agilent | Power Meter E4419B | MY41291386 | 09/11/2024 | Annual | 09/11/2025 |
| Agilent | Power Meter N1911A | MY45101406 | 05/21/2024 | Annual | 05/21/2025 |
| EMPOWER | RF Power Amplifier | 1084 | 05/21/2024 | Annual | 05/21/2025 |
| Agilent | Wideband Power SensorN1921A | MY55220026 | 07/30/2024 | Annual | 07/30/2025 |
| Agilent | Power Sensor 8481A | SG1091286 | 09/12/2024 | Annual | 09/12/2025 |
| SPEAG | DAKS 12 | 1048 | 03/20/2024 | Annual | 03/20/2025 |
| SPEAG | Vector Reflectometer | 21393001 | 03/21/2024 | Annual | 03/21/2025 |
| Agilent | Directional Bridge 86205A | 3140A04581 | 04/22/2024 | Annual | 04/22/2025 |
| Agilent | SIGNAL GENERATOR N5182A | MY47070230 | 03/19/2024 | Annual | 03/19/2025 |
| Agilent | MXA Signal Analyzer N9020A | MY50510407 | 06/04/2024 | Annual | 06/04/2025 |
| Agilent | Attenuator (3dB) 8693B | MY39260298 | 08/20/2024 | Annual | 08/20/2025 |
| HP | Attenuator (20dB) 8493C | 09271 | 08/20/2024 | Annual | 08/20/2025 |
| Aeroflex/Weinschel | Fixed Coaxial Attenuator (30 dB) | CE6106 | 11/13/2024 | Annual | 11/13/2025 |
| MICRO LAB | LP Filter / LA-15N | 10453 | 09/11/2024 | Annual | 09/11/2025 |

^{1.} The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAK-12 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

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16. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/IEEE C95.1-2005.

These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests.

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

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AppendixA. – Test Setup Photo

Please refer to test DUT Ant. Information & setup photo file no. as follows:

| Report No. |
|---------------------|
| HCT-SR-2502-FC002-P |

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AppendixB. - SAR Test Plots

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Test Laboratory: HCT CO., LTD Liquid Temperature: 20.0 °C Ambient Temperature: 20.1 °C Test Date: 01/20/2025 Plot No.:

Measurement Report for Device, FRONT, Custom Band, CW, Channel 815100 (815.100 MHz)

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------------|---------------------------------------|----------------|---------------|--|----------------------|------------------------------|---------------------|
| Flat, Head Simulating Liquid | FRONT, 25.00 | Custom Band | CW, 0 | 815.100, 815100 | 9.18 | 0.925 | 43.0 |

Hardware Setup

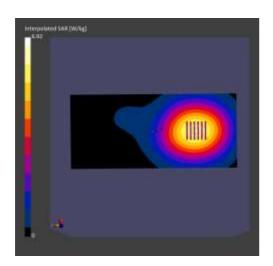
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|-----------------------------|-------------------------|
| ELI V6.0 (20deg probe tilt) - xxxx | EX3DV4 - SN7655, 2024-05-28 | DAE4 Sn1686, 2024-06-19 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 120.0 x 270.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 5.44 | 5.35 |
| psSAR10g [W/Kg] | 3.83 | 4.07 |
| Power Drift [dB] | -0.22 | -0.21 |
| M2/M1 [%] | | 91.7 |
| Dist 3dB Peak [mm] | | > 15.0 |



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Test Laboratory: HCT CO., LTD Liquid Temperature: $20.0\,^{\circ}\text{C}$ Ambient Temperature: $20.1\,^{\circ}\text{C}$ Test Date: 01/20/2025

Plot No.: 2

Measurement Report for Device, BACK, Custom Band, CW, Channel 815100 (815.100 MHz)

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------------|---------------------------------------|----------------|---------------|--|----------------------|------------------------------|---------------------|
| Flat, Head Simulating Liquid | BACK, 0.00 | Custom Band | CW, 0 | 815.100, 815100 | 9.18 | 0.925 | 43.0 |

Hardware Setup

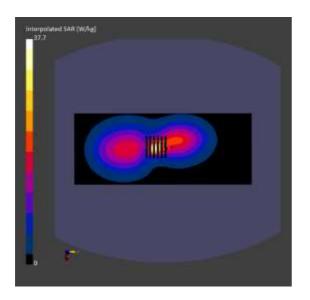
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|-----------------------------|-------------------------|
| ELI V6.0 (20deg probe tilt) - xxxx | EX3DV4 - SN7655, 2024-05-28 | DAE4 Sn1686, 2024-06-19 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 120.0 x 300.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 10.9 | 11.4 |
| psSAR10g [W/Kg] | 6.10 | 5.40 |
| Power Drift [dB] | -0.01 | -0.06 |
| M2/M1 [%] | | 64.6 |
| Dist 3dB Peak [mm] | | 7.1 |



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AppendixC. - Dipole Verification Plots

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■Verification Data (835 Mbz Head)

Test Laboratory: HCT CO., LTD Input Power 50 mW Liquid Temp: 20.0°C Test Date:

Measurement Report for Device, , , CW, Channel 0 (835.000 MHz)

01/20/2025

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|------------------------------------|---------------------------------------|------|---------------|--|----------------------|------------------------|---------------------|
| Flat, Head Simulating Liquid | , | | CW, 0 | 835.000, 0 | 9.18 | 0.944 | 42.7 |

Hardware Setup

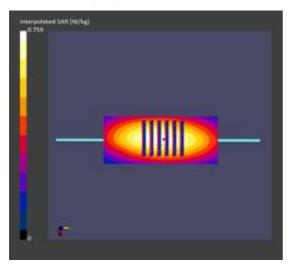
| Phantom | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|-----------------------------|-------------------------|
| ELI V6.0 (20deg probe tilt) - xxxx | EX3DV4 - SN7655, 2024-05-28 | DAE4 Sn1686, 2024-06-19 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 40.0 x 90.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 15.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.518 | 0.516 |
| psSAR10g [W/Kg] | 0.342 | 0.342 |
| Power Drift [dB] | 0.01 | 0.02 |
| M2/M1 [%] | | 89.3 |
| Dist 3dB Peak [mm] | | 20.5 |



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AppendixD. - SAR Tissue Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and

saline solution (see Table 3.1). Preservation with a bacteriacide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for

the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Harts grove.

| Ingredients | Frequency (Mtz) |
|-----------------------------|-----------------|
| (% by weight) | 835 |
| Tissue Type | Head |
| Water | 40.45% |
| Salt (NaCl) | 1.45% |
| Sugar | 57.0% |
| HEC | 1.0% |
| Bactericide | 0.1% |
| Triton X-100 | 0.0% |
| DGBE | 0.0% |
| Diethyleneglycol hexylether | - |

| Salt: | 99 % Pure Sodium Chloride | Sugar: | 98 % Pure Sucrose |
|---------------------------|------------------------------|-----------------|--------------------------|
| Water: | De-ionized, 16M resistivity | HEC: | Hydroxyethyl Cellulose |
| DGBE: | 99 % Di(ethylene glycol) but | yl ether,[2-(2- | butoxyethoxy) ethanol] |
| Triton X-100(ultra-pure): | Polyethylene glycol mono[4-(| 1,1,3,3-tetram | ethylbutyl)phenyl] ether |

Composition of the Tissue Equivalent Matter

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AppendixE. - SAR System Validation

Per IEC/IEEE 62209-1528:2020, SAR system validation status should be document to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in IEC/IEEE 62209-1528:2020. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

| SAR | | | Probe | | | | Dielectric | Parameters | CW | /Validation | | Modula | tion Valid | lation |
|---------------|-------|---------------|-------|----------------|--------|------------|--------------------------|--------------------------|-------------|--------------------|-------------------|--------------|----------------|--------|
| System No. | Probe | Probe Type | Calib | ration pint | Dipole | Date | Measured Permittivity | Measured Conductivity | Sensitivity | Probe Linearity | Probe Isotropy | MOD. Type | Duty Factor | PAR |
| 11 | 7655 | EX3DV4 | Head | 835 | 441 | 2024-06-11 | 41.7 | 0.92 | PASS | PASS | PASS | N/A | N/A | N/A |

SAR System Validation Summary 1g

Note:

All measurement were performed using probes calibrated for CW signal only. Modulations in the table above represent test configurations for which the measurement system has been validated per IEC/IEEE 62209-1528:2020. SAR system were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to IEC/IEEE 62209-1528:2020.

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AppendixF. - Probe Calibration Data

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

HCT

Gyeonggi-do, Republic of Korea

Certificate No.

EX-7655_May24

| CALIBRATION C | ERTIFICATE | <u> </u> | and. | 12 |
|--------------------------------|--|---------------------|-------------------------|----------------|
| Object | EX3DV4 - SN:7655 | 74 74/01 11 7 | SW 4434 2024/0605 | 2124 106.05 |
| Calibration procedure(s) | QA CAL-01.v10, QA CAL- QA CAL-25.v8 Calibration procedure for c | | | L-23.v6, |
| Calibration date | May 28, 2024 | | | |
| | cuments the traceability to national stand incertainties with confidence probability is | | | |
| All calibrations have been co- | nducted in the closed laboratory facility: | environment tempera | sture (22 ± 3) °C and h | umidity < 70%. |
| Calibration Equipment used (| A STATE OF THE STA | | | |

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|-----------------------|
| Power meter NRP2 | SN: 104778 | 26-Mar-24 (No. 217-04036/04037) | Mar-25 |
| Pawer sensor NRP-Z91 | SN: 103244 | 26-Mar-24 (No. 217-04036) | Mar-25 |
| OCP DAK-3.5 (weighted) | SN: 1249 | 05-Oct-23 (OCP-DAK3.5-1249_Oct23) | Oct-24 |
| OCP DAK-12 | SN: 1016 | 05-Oct-23 (OCP-DAK12-1016_Oct23) | Oct-24 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 26-Mar-24 (No. 217-04046) | Mar-25 |
| DAE4 | SN: 660 | 23-Feb-24 (No. DAE4-660_Feb24) | Feb-25 |
| Reference Probe EX3DV4 | SN: 7349 | 03-Nov-23 (No. EX3-7349_Nov23) | Nov-24 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|-------------------------|------------------|-----------------------------------|------------------------|
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-22) | In house check: Jun-24 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |

| | Name | Function | Signature |
|---------------|----------------|--|----------------------|
| Calibrated by | Joanna Lleshaj | Laboratory Technician | Aplly |
| Approved by | Sven Kühn | Technical Manager | en |
| | | full without written approval of the lab | Issued: May 28, 2024 |

Certificate No: EX-7655_May24

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage C

Servizio svizzero di taratura Swiss Calibration Service

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Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary

tissue simulating liquid TSL NORMx,y,z sensitivity in free space ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point

crest factor (1/duty_cycle) of the RF signal CF A, B, C, D modulation dependent linearization parameters

φ rotation around probe axis Polarization @

 θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is Polarization #

normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)*, October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E2-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * CorvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- · Spherical isotropy (3D deviation from isotropy); in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX-7655 May24

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May 28, 2024 EX3DV4 - SN:7655

Parameters of Probe: EX3DV4 - SN:7655

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k = 2) |
|--|----------|----------|----------|-------------|
| Norm (μV/(V/m) ²) ^A | 0.50 | 0.62 | 0.51 | ±10.1% |
| DCP (mV) B | 105.9 | 105.4 | 107.8 | ±4.7% |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dB√μV | С | D dB | WR mV | Max dev. | Max Unc ^E k = 2 |
|----------|--|---|---------|------------|-------|------------|------------|---|----------------------------------|
| 0. | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 123.6 | ±2.8% | ±4.7% |
| | | Y | 0.00 | 0.00 | 1.00 | 9 | 149.0 | 8 | |
| | | Z | 0.00 | 0.00 | 1.00 | | 150.0 | G | |
| 10352 | Pulse Waveform (200Hz, 10%) | X | 1.77 | 61.96 | 7.33 | 10.00 | 60.0 | ±2.6% | ±9.6% |
| | | Y | 1.53 | 60.72 | 6.50 | 12000000 | 60.0 | | |
| | | Z | 1.67 | 61.53 | 7.27 | | 60.0 | | |
| 10353 | Pulse Waveform (200Hz, 20%) | X | 0.84 | 60.02 | 5.27 | 6.99 80.0 | 80.0 | ±2.0% | ±9.6% |
| | Comment of the control of the contro | Y | 46.00 | 80.00 | 11.00 | 10000000 | 80.0 | acceptance. | |
| | | Z | 0.81 | 60.00 | 5.46 | - | 80.0 | - | |
| 10354 | Pulse Waveform (200Hz, 40%) | X | 0.03 | 118.22 | 0.35 | 3.98 | 95.0 | ±2.7% | ±9.6% |
| 1000 | | Y | 0.51 | 159.02 | 10.78 | | 95.0 | | |
| | | Z | 68.00 | 78.00 | 9.00 | | 95.0 | | |
| 10355 | Pulse Waveform (200Hz, 60%) | X | 11.59 | 154.19 | 7.09 | 2.22 | 120.0 ±1.6 | ±1.6% | ±9.6% |
| THE ST | and I am italian in (east in 20.10) | Y | 10.49 | 157.44 | 14.13 | 1.5000000 | 120.0 | CONTRACTOR OF THE PARTY OF THE | E SPESION |
| | | Z | 11.11 | 154.69 | 15.41 | | 120.0 | | |
| 10387 | QPSK Waveform, 1 MHz | X | 0.60 | 63.80 | 11.98 | 1.00 | 150.0 | ±4.3% | ±9.6% |
| | | Y | 0.57 | 63.21 | 12.13 | | 150.0 | | |
| | | Z | 0.54 | 62.15 | 11.23 | | 150.0 | | |
| 10388 | QPSK Waveform, 10 MHz | X | 1.35 | 65.40 | 13.61 | 0.00 | 150.0 | ±1.3% | ±9.6% |
| 10000 | 1 20 C 20 | Y | 1.33 | 65.35 | 13.68 | 10 DE 1987 | 150.0 | S-010 | ==100000 |
| | | 2 | 1.28 | 64.34 | 13.18 | | 150.0 | | |
| 10396 | 64-QAM Waveform, 100 kHz | X | 1.74 | 64.88 | 15.91 | 3.01 | 150.0 | ±1.2% | ±9.6% |
| | | Y | 1.55 | 63.16 | 15.32 | | 150.0 | | |
| | | Z | 1.63 | 63.71 | 15.32 | | 150.0 | | |
| 10399 | 64-QAM Waveform, 40 MHz | X | 2.85 | 66.13 | 14.92 | 0.00 | 150.0 | ±1.7% | ±9.6% |
| YOU THE | | V | 2.82 | 66.06 | 14.95 | | 150.0 | | -1010 |
| | | Z | 2.75 | 65.46 | 14.60 | | 150.0 | 1 | |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz | X | 3.88 | 65.85 | 15.16 | 0.00 | 150.0 | ±3.3% | ±9.6% |
| 1.5-10-5 | | Y | 3.81 | 65.73 | 15.12 | | 150.0 | 0.002000.020 | |
| | | Z | 3.96 | 66.00 | 15.25 | | 150.0 | | |

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

Linearization parameter uncertainty for maximum specified field strength.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



EX3DV4 - SN:7655 May 28, 2024

Parameters of Probe: EX3DV4 - SN:7655

Sensor Model Parameters

| | C1 fF | C2 fF | α V-1 | T1 msV ⁻² | T2 ms V ⁻¹ | T3 ms | T4 V-2 | T5 V ⁻¹ | Т6 |
|---|----------|----------|----------|-------------------------|--------------------------|----------|-----------|-----------------------|------|
| × | 10.8 | 77.70 | 33.08 | 4.16 | 0.00 | 4.94 | 0.56 | 0.00 | 1.00 |
| v | 10.1 | 72.75 | 33.10 | 3.11 | 0.00 | 4.90 | 0.05 | 0.01 | 1.00 |
| Z | 11.4 | 81.54 | 33.00 | 3.57 | 0.00 | 4.95 | 0.51 | 0.00 | 1.00 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle | 86.5° |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

May 28, 2024



EX3DV4 - SN:7655

Parameters of Probe: EX3DV4 - SN:7655

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity ^F (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc ^H (k = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|-----------------------------|
| 150 | 52.3 | 0.76 | 12.35 | 12.35 | 12.35 | 0.00 | 1.25 | ±13.3% |
| 450 | 43.5 | 0.87 | 11.07 | 11.07 | 11.07 | 0.16 | 1.30 | ±13.3% |
| 750 | 41.9 | 0.89 | 9.12 | 9.70 | 9.50 | 0.41 | 1.27 | ±11.0% |
| 835 | 41.5 | 0.90 | 9.18 | 9.32 | 9,14 | 0.40 | 1.27 | ±11.0% |
| 900 | 41.5 | 0.97 | 8.64 | 9.28 | 8.95 | 0.40 | 1.27 | ±11.0% |
| 1450 | 40.5 | 1.20 | 7.90 | 8.31 | 7.99 | 0.38 | 1.27 | ±11.0% |
| 1750 | 40.1 | 1.37 | 7.69 | 8.16 | 7.84 | 0.27 | 1.27 | ±11.0% |
| 1900 | 40.0 | 1.40 | 7.55 | 8.06 | 7.74 | 0.30 | 1.27 | ±11.0% |
| 2300 | 39.5 | 1.67 | 7.33 | 7.85 | 7.52 | 0.31 | 1.27 | ±11.0% |
| 2450 | 39.2 | 1.80 | 7.25 | 7.78 | 7.45 | 0.31 | 1.27 | ±11.0% |
| 2600 | 39.0 | 1.96 | 7.11 | 7,65 | 7.32 | 0.30 | 1.27 | ±11.0% |
| 4400 | 36.9 | 3.84 | 6.01 | 6.51 | 6.27 | 0.40 | 1.27 | ±13.19 |
| 4600 | 36.7 | 4.04 | 5.96 | 6.44 | 6.17 | 0.38 | 1.27 | ±13.19 |
| 4800 | 36.4 | 4.25 | 5.89 | 6.37 | 6.08 | 0.39 | 1.27 | ±13.19 |
| 4950 | 36.3 | 4.40 | 5.53 | 6.02 | 5.83 | 0.43 | 1.36 | ±13.19 |

Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessed at 5 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

The probes are calibrated using its sue simulating liquids (TSL) that deviate for z and or by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less.

than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the

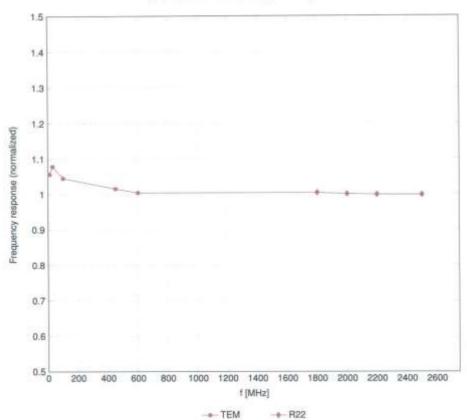
H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. Therefore, The uncertainty stated is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 82209-1528:2020.



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Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

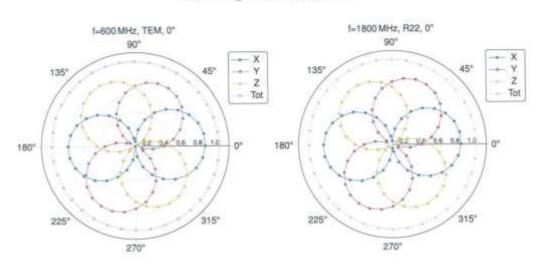
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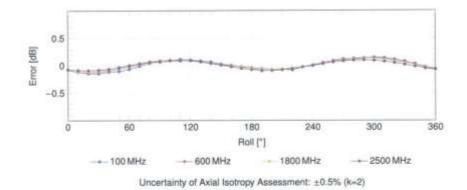
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Receiving Pattern (ϕ), $\theta = 0^{\circ}$



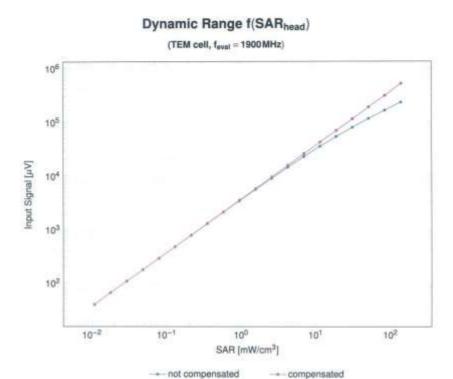


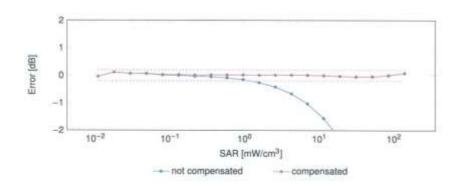
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Uncertainty of Linearity Assessment: ±0.6% (k=2)

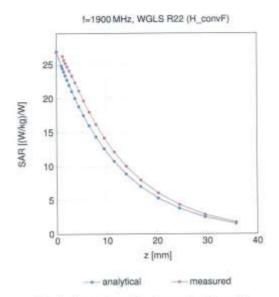
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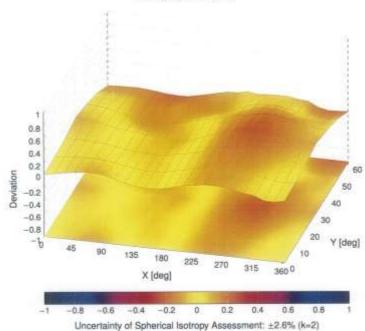
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Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ) , f = 900 MHz



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Appendix: Modulation Calibration Parameters

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc [®] $k=2$ |
|-------|-----|--|--------------|----------|------------------------|
| 0 | 222 | CW | CW | 0.00 | ±4.7 |
| 10010 | CAB | SAR Validation (Square, 100 ms, 10 ms) | Test | 10.00 | ±9.6 |
| 10011 | CAC | UMTS-FDD (WCDMA) | WCDMA | 2.91 | ±9.6 |
| 10012 | CAB | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps) | WLAN | 1.87 | ±9.6 |
| 10013 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps) | WLAN | 9:46 | ±9.6 |
| 10021 | DAC | GSM-FDD (TDMA, GMSK) | GSM | 9.39 | ±9.6 |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | 19.6 |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.55 | ±9.6 |
| 10025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 12.62 | ±9.6 |
| 10026 | DAC | EDGE-FDO (TDMA, 8PSK, TN 0-1) | GSM | 9.55 | ±9.6 |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 4,80 | ±9.6 |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM | 3.55 | ±9.6 |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | GSM | 7.78 | ±9.6 |
| 10030 | CAA | IEEE 802.15.1 Bluetoath (GFSK, DH1) | Bluetpoth | 5.30 | ±9.6 |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 1.87 | ±9.6 |
| 10032 | CAA | IEEE 802 15.1 Bluetooth (GFSK, DH5) | Bluetooth | 1,16 | ±9.6 |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH1) | Bluetooth | 7.74 | ±9.6 |
| 10034 | GAA | IEEE 802.15.1 Bluetooth (Pl/4-DQPSK, DH3) | Blueloath | 4.53 | ±9.6 |
| | CAA | IEEE 802.15.1 Bluetooth (PV4-DQPSK, DH5) | Bluetooth | 3.83 | ±9.6 |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ±9.6 |
| | 4 | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | 19.6 |
| 10037 | CAA | | Bluetooth | 4.10 | ±9.6 |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | CDMA2000 | 4.10 | 19.6 |
| 10039 | CAB | CDMA2000 (1xRTT, RC1) | AMPS | 7.78 | ±9.6 |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | 177777 | - | |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | 29.6 |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Stot, 24) | DECT | 13.80 | ±9.6 |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | DECT | 10.79 | 19.6 |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | TD-SCDMA | 11.01 | ±9.6 |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | GSM | 6.52 | 19.6 |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | ±9.6 |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2,83 | ±9.6 |
| 10061 | CAB | IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps) | WLAN | 3.60 | ±9.6 |
| 10062 | CAE | IEEE 802.11a/h WIFi 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | ±9.6 |
| 10063 | CAE | IEEE 802.11a/h WiFl 5 GHz (OFDM, 9 Mbps) | WLAN | 8,63 | ±9,6 |
| 10064 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | ±9.6 |
| 10065 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps) | WLAN | 9.00 | ±9.6 |
| 10066 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ±9.6 |
| 10067 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | ±9.6 |
| 10068 | CAE | IEEE 802.11a/h WIFi 5 GHz (OFDM, 48 Mbps) | WLAN | 10.24 | ±9.6 |
| 10069 | CAE | IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps) | WLAN | 10.56 | 19.6 |
| 10071 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.83 | ±9.6 |
| 10072 | CAB | IEEE 802 11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps) | WLAN | 9.62 | ±9.5 |
| 10073 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbgs) | WLAN | 9.94 | ±9.6 |
| 10074 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps) | WLAN | 10.30 | 19.5 |
| 10075 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | ±9.6 |
| 10076 | CAB | IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 48 Mbps) | WLAN | 10.94 | 19.6 |
| 10077 | CAS | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps) | WLAN | 11.00 | ±9.6 |
| 10081 | CAB | CDMA2000 (1xRTT, RC3) | CDMA2000 | 3.97 | ±9.6 |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PV4-DQPSK, Fullrate) | AMPS | 4.77 | ±9.5 |
| 10090 | DAG | GPRS-FDD (TDMA, GMSK, TN 0-4) | GSM | 6.56 | 19.6 |
| 10090 | CAC | UMTS-FDD (HSDPA) | WCDMA | 3.98 | ±9.6 |
| 10098 | CAC | and and the possessed discovering the control of th | TO SECURITY. | | |
| 10098 | DAC | UMTS-FDD (HSUPA, Subtest 2) EDGE-FDD (TDMA, 8PSK, TN 0-4) | WCDMA | 3.98 | ±9.6 |
| 10100 | CAF | The state of the s | GSM | 9.55 | 19.6 |
| | | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | ±9.6 |
| 10101 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FOD | 6.42 | ±9.6 |
| 10102 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-F00 | 6.60 | ±9.6 |
| 10103 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TOD | 9.29 | ±9.6 |
| 10104 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ±9.6 |
| 10105 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TOD | 10.01 | ±9.6 |
| 10108 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | 5.80 | ±9.6 |
| 10109 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 15-QAM) | LTE-FDD | 8.43 | ±9.6 |
| 10110 | CAH | LTE-FDO (SC-FDMA, 100% RB, 5MHz, QPSK) | LTE-FDD | 5.75 | ±9.6 |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) | LTE-FOD | 6.44 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc [®] k = |
|--------|-----|--|---------|----------|----------------------|
| 0112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.59 | ±9.6 |
| 0113 | CAH | LTE-FDD (SC-FDMA, 100% R8, 5MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 |
| 0114 | CAE | IEEE 802.11n (HT Greenfield, 13.5Mbps, BPSK) | WLAN | 8.10 | ±9.6 |
| 0115 | CAE | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | ±9.6 |
| 1116 | CAE | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8.15 | ±9.6 |
| 1117 | CAE | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | ±9.6 |
| 1118 | CAE | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) | WLAN | 8.59 | ±9.6 |
| 0119 | CAE | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) | WLAN | 8,13 | ±9.6 |
| 0140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-GAM) | LTE-FDD | 6.49 | ±9.6 |
| 0141 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | ±9.6 |
| 0142 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK) | LTE-F00 | 5.73 | ±9.6 |
| 0143 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDO | 6.35 | ±9.6 |
| 0144 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FD0 | 6.65 | ±9.8 |
| 0145 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FOD | 5.76 | ±9.6 |
| 0146 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ±9.6 |
| 0147 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.72 | ±9.6 |
| 0149 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-FOD | 6.42 | ±9.6 |
| 0150 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ±9.6 |
| 0151 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TOD | 9.28 | ±9.6 |
| 0152 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TOD | 9.92 | ±9.6 |
| 0153 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | ±9.6 |
| 0154 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-F00 | 5.75 | ±9.6 |
| 10155 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 15-QAM) | LTE-FDD | 6.43 | ±9.6 |
| 0156 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FD0 | 5.79 | ±9.6 |
| 10157 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10158 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 |
| 10159 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.56 | ±9.6 |
| 10160 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FDD | 5.82 | ±9.6 |
| 10161 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM) | LTE-FDD | 6.43 | ±9.6 |
| 10162 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) | LTE-FD0 | 6.58 | ±9.6 |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDO | 5.46 | ±9.6 |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FOD | 6.21 | ±9.6 |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-F00 | 6.79 | ±9.6 |
| 10169 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10170 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FOD | 8.52 | ±9.6 |
| 10171 | AAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FOD | 6,49 | ±9.6 |
| 10172 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-TOD | 9.21 | ±9.6 |
| 10173 | CAH | LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TOD | 9.48 | ±9.6 |
| 10174 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 10175 | CAH | LTE-FDD (SC-FDMA, 1 R8, 10MHz, QPSK) | LTE-FOO | 5.72 | ±9.6 |
| 10176 | CAH | LTE-FD0 (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10177 | CAJ | LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10178 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10179 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10180 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-F00 | 5.72 | ±9.6 |
| 10182 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM) | LTE-F00 | 8.52 | ±9.6 |
| 10183 | AAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-F00 | 6.50 | ±9.6 |
| 10184 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10185 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM) | LTE-FOD | 8.51 | ±9.6 |
| 10188 | AAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 84-QAM) | LTE-F00 | 6.50 | ±9.6 |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-F00 | 5.73 | ±9.6 |
| 10.188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | 19.6 |
| 10189 | AAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-DAM) | LTE-FD0 | 6.50 | 29.6 |
| 10193 | CAE | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | 19.6 |
| 10194 | CAE | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | ±9.6 |
| 10195 | CAE | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN | 8.21 | ±9.6 |
| 10196 | CAE | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 01.8 | 19.6 |
| 10197 | CAE | IEEE 602.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.13 | ±9.6 |
| 10198 | CAE | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.27 | ±9.6 |
| 10219 | CAE | IEEE 802.11n (HT Mixed, 7.2 Mops, BPSK) | WLAN | 8.03 | ±9.6 |
| 10220 | CAE | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | ±9.6 |
| 10221 | CAE | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | ±9.6 |
| 10222 | CAE | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | WLAN | 8.06 | ±9.6 |
| 10223 | CAE | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | WLAN | 8.48 | 19.6 |
| 10224 | CAE | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | WLAN | 8.08 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | UncE # = |
|--------|--|--|----------|----------|----------|
| 10225 | CAC | UMTS-FDD (HSPA+) | WCDMA. | 5.97 | ±9.6 |
| 0226 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TOO | 9,49 | ±9.6 |
| 0227 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ±9.6 |
| 0228 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9,22 | ±9.6 |
| 0229 | CAE | LTE-TDO (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TOO | 9.48 | ±9.6 |
| 0230 | CAE | LTE-TDO (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-TOO | 10.25 | ±9.6 |
| 10231 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TD0 | 9.19 | ±9.6 |
| 0232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TD0 | 9.48 | ±9.8 |
| 10233 | CAH | LTE-TOD (SC-FDMA, 1 RB, 5MHz, 64-QAM) | LTE-TOD | 10.25 | ±9.6 |
| 10234 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TOD | 9.21 | ±9.6 |
| 10235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TOD | 9.48 | ±9.6 |
| 10236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TOD | 10.25 | ±9.6 |
| 10237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ±9.6 |
| 10238 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM) | LTE-TOD | 9.48 | ±9.6 |
| 10239 | CAG | LTE-TDD (SC-FDMA, 1 R8, 15 MHz, 64-QAM) | LTE-TOD | 10.25 | ±9.6 |
| 10240 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | 19.5 |
| 10241 | CAC | LTE-TDD (SC-FDMA, 50% R8, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | ±9.6 |
| 10:242 | GAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TOO | 9.86 | ±9.6 |
| 10243 | CAC | LTE-TOD (SC-FDMA, 50% RB, 1.4MHz, QPSK) | LTE-TOD | 9.46 | ±9.6 |
| 10244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TOD | 10.06 | ±9.6 |
| 10245 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TOD | 10.06 | ±9.6 |
| 10246 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TOD | 9.30 | ±9.6 |
| 10247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TOD | 9.91 | ±9.6 |
| 10248 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.09 | ±9.6 |
| 10249 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-TDD | 9.29 | ±9.6 |
| 10250 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.81 | ±9.6 |
| 10251 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.17 | ±9.6 |
| 10252 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TDD | 9.24 | ±9.6 |
| 10253 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM) | LTE-TOD | 9.90 | ±9.6 |
| 10254 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) | LTE-TOD | 10/14 | ±9.6 |
| 10255 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15MHz, QPSK) | LTE-TDD | 9.20 | ±9.6 |
| 10256 | CAC | LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.96 | ±9.6 |
| 10257 | CAC | LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TD0 | 10.08 | ±9.6 |
| 10258 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1,4MHz, QPSK) | LTE-TOD | 9.34 | ±9.5 |
| 10259 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TOD | 9.98 | ±9.6 |
| 10260 | CAE | LTE-TOD (SC-FDMA, 100% RB, 3MHz, 64-QAM) | LTE-TDD | 9.97 | ±9.6 |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TOO | 9.24 | ±9.6 |
| 10262 | CAH | LTE-TDD (SC-FOMA, 100% RB, 5MHz, 16-QAM) | LTE-TOD | 9.83 | ±9.6 |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM) | LTE-TOD | 10.16 | ±9.6 |
| 10264 | CAH | LTE-TDO (SC-FDMA, 100% RB, 5MHz, QPSK) | LTE-TOD | 9.23 | ±9.6 |
| 10285 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TOO | 9.92 | ±9.6 |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-TDO | 10.07 | ±9.6 |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDO | 9.30 | 19.8 |
| 10268 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-TD0 | 10.06 | 19.6 |
| 10269 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TOO | 10.13 | ±9.6 |
| 10270 | والمحارضة والمناطوط | LTE-TOD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9.58 | ±9.6 |
| 10274 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | ±9.6 |
| 10275 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 3.96 | ±9.6 |
| 10277 | CAA | PHS (QPSK) | PHS | 11.81 | ±9.6 |
| 10278 | CAA | PHS (QPSK, 8W 884 MHz, Rolloff 0.5) | PHS | 11.81 | ±9.6 |
| 10279 | CAA | PHS (QPSK, BW 884 MHz, Rolloff 0.38) | PHS | 12.18 | ±9.6 |
| 10290 | AAB | CDMA2000, RC1, SOS5, Full Rate | CDMA2000 | 3.91 | ±9.6 |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ±9.0 |
| 10292 | to the best of the first | CDMA2000, RC3, SC32, Full Rate | CDMA2000 | 3.39 | ±9.6 |
| 10293 | | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | ±9.6 |
| 10295 | CONTRACTOR AND ADDRESS OF THE PARTY NAMED IN CONTRACTOR AND ADDRES | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | COMA2000 | 12.49 | ±9.6 |
| 10297 | - | LTE FDD (SC FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5,81 | ±9.6 |
| 10298 | III and the same | LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK) | LTE-FDD | 5.72 | ±9.6 |
| 10299 | | LTE-FDD (SC-FDMA, 50% RB, 3MHz, 16-QAM) | LTE-FDD | 6.39 | ±9.6 |
| 10300 | term and the second | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.60 | ±9.6 |
| 10301 | _ | IEEE 802 16e WMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) | WIMAX | 12.03 | ±9.6 |
| 10302 | _ | IEEE 802 16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) | WIMAX | 12.57 | 19.6 |
| 10303 | - | IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) | WIMAX | 12.52 | ±9.6 |
| 10304 | - | IEEE 802 16e WIMAX (29:18, 5ms, 10 MHz, 64QAM, PUSC) | WIMAX | 11.86 | ±9.6 |
| 10:305 | _ | IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) | WIMAX | 15.24 | ±9.6 |
| 10306 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols) | WIMAX | 14.67 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unch k = |
|---------------------------|--|--|--|----------|----------|
| 0307 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols) | WIMAX | 14.49 | ±9.6 |
| 0308 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC) | WIMAX | 14.46 | ±9.6 |
| 0309 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols) | WiMAX | 14.58 | ±9.6 |
| 0310 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols) | WIMAX | 14.57 | ±9.6 |
| 10311 | AAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDO | 6.06 | 19.6 |
| 0313 | AAA | DEN 1:3 | IDEN | 10.51 | ±9.6 |
| 10314 | AAA | DEN 1.6 | IDEN | 13.48 | ±9.6 |
| 10315 | AAB | IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) | WLAN | 1.71 | ±9.6 |
| 10316 | AAB | IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10317 | AAE | IEEE 802.11a WFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10352 | AAA | Pulse Waveform (200Hz, 10%) | Generic | 10.00 | ±9.6 |
| And the second | AAA | Pulse Waveform (200Hz, 20%) | Generic | 6.99 | ±9.6 |
| 10353 | | Pulse Waveform (200Hz, 40%) | Generic | 3.98 | £9.6 |
| 10354 | AAA | | Generic | 2.22 | ±9.6 |
| 10355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 0.97 | ±9.6 |
| 10356 | AAA | Pulse Waveform (200Hz, 80%) | and beautiful and assembly | 5.10 | ±9.6 |
| 10387 | AAA | QPSK Waveform, 1 MHz | Generic | | - |
| 10388 | AAA | QPSK Waveform, 10 MHz | Generic | 5.22 | ±9.6 |
| 10396 | AAA, | 64-QAM Waveform, 100 kHz | Generic | 6.27 | ±9.6 |
| 10399 | AAA, | 64-QAM Waveform, 40 MHz | Generic | 6.27 | 19.6 |
| 10400 | AAF | IEEE 802.11ac WIFI (20 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.37 | 19.6 |
| 10401 | AAF | IEEE 802.11ac WiFi (40 MHz, 64-QAM, 98pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 10402 | AAF | IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.53 | ±9.6 |
| 0403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 3.76 | ±9.6 |
| 10404 | AAB | CDMA2000 (1xEV-DD, Rev. A) | CDMA2000 | 3.77 | ±9.6 |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ±9.6 |
| 10410 | AAH | LTE-TDD (SC-FDMA, 1 R8, 10MHz, QPSK, UL Subframe=2,3.4,7.8,9, Subframe Confu4) | LTE-TOD | 7.82 | ±9.8 |
| 0414 | AAA | WLAN CCDF, 64-GAM, 40 MHz | Generic | 8:54 | ±9.6 |
| 10.415 | AAA | IEEE 802 11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | WLAN | 1.54 | ±9.6 |
| 10416 | AAA | IEEE 802.11g WIFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | ±9.6 |
| 0417 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | ±9.6 |
| | AAA | The state of the s | WLAN | 8.14 | ±9.6 |
| 10418 | A CONTRACTOR OF THE PARTY OF TH | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) | WLAN | 8.19 | ±9.6 |
| 10419 | - | IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mops, 99pc duty cycle, Short preambule) | WLAN | 8.32 | ±9.6 |
| 10422 | AAD | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.47 | ±9.6 |
| 10423 | | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | 7.0000000000000000000000000000000000000 | - | |
| 10424 | udikaran halah terhes | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 84-QAM) | WLAN | 8.40 | ±9.6 |
| 10425 | | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ±9.6 |
| 10426 | AAD | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | WLAN | 8.45 | ±9.6 |
| 10427 | AAD | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN | 8.41 | #9.6 |
| 10430 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDO | 8.28 | ±9.6 |
| 10431 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8.38 | 19.6 |
| 10432 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) | LTE-FD0 | 8.34 | ±9.6 |
| 10433 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | LTE-FDD | 8.34 | ±9.6 |
| 10434 | AAB | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | ±9.6 |
| 10435 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2.3,4,7,8,9) | LTE-TDD | 7,82 | ±9.6 |
| 10447 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FOO | 7.56 | ±9.6 |
| 10448 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%) | LTE-FDD | 7.53 | ±9.6 |
| 10449 | | LTE-FDD (OFDMA, 15MHz, E-TM 3.1, Cliping 44%) | LTE-FDD | 7.51 | ±9.5 |
| 0450 | distribution. | LTE FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | ±9.6 |
| 10451 | AAB | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ±9.6 |
| 0453 | - | Validation (Square, 10 ms, 1 ms) | Test | 10.00 | ±9.6 |
| 0456 | and the latest terminal | IEEE 802.11ac WFI (160 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.63 | ±9.6 |
| 10457 | - | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | ±9.8 |
| 0458 | | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 6.55 | ±9.6 |
| the latest designation of | | | CDMA2000 | 8.25 | |
| 0.459 | | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | The state of the s | - | ±9.6 |
| 0.460 | market and the same | | WCDMA | 2.39 | ±0.6 |
| 10451 | AAC | LTE-TDD (SC-FDMA, 1 R8, 1.4 MHz, QPSK, UL Subframe=2.3,4,7,8,9) | LTE-TOD | 7,82 | ±9.6 |
| 10482 | - | LTE-TDD (SC-FDMA, 1 R8, 1.4 MHz, 16-QAM, UL Subframe=2.3.4,7.8,9) | LTE-TOD | 8.30 | ±9.f |
| 0.463 | market play before the | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.56 | ±9.f |
| 10464 | _ | LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9.6 |
| 10465 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.32 | ±9.6 |
| 0.466 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2.3.4,7,8,9) | LTE-TOD | 8.57 | ±9.6 |
| 0.467 | | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe+2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9.6 |
| 10468 | and the second second | LTE-TDD (SC-FDMA, 1 R8, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.32 | ±9.6 |
| 10469 | and the second second second | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9) | LTE-TDD | 8.56 | ±9.6 |
| 10470 | will and the second of the second | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8.9) | LTE-TOD | 7.82 | ±9.6 |
| - | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.32 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc [®] k = 2 |
|--------|---------------------------------------|--|---------|----------|------------------------|
| 0472 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9) | LTE-TOO | 8.57 | ±9.6 |
| 0473 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9.6 |
| 0474 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe+2,3,4,7,8,9) | LTE-TDD | 8.32 | ±9.6 |
| 0475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9) | LTE-TOD | 8.57 | ±9,6 |
| 0477 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe::2,3,4,7,8,9) | ETE-TOD | 8.32 | ±9.6 |
| 0478 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7.8,9) | LTE-TOD | 8.57 | ±9.5 |
| 0479 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.74 | ±9.6 |
| 0480 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.18 | ±9.6 |
| 0481 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64 QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.45 | ±9.6 |
| 0482 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UI, Subframe=2,3,4,7,8,9) | LTE-TOD | 7,71 | ±9.6 |
| 0483 | AAD | LTE-TDD (SC-FDMA, S0% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.39 | ±9.6 |
| 0.484 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.47 | ±9.6 |
| 0485 | AAG | LTE-TDD (SC FDMA, 50% RB, 5MHz, QPSK, UL Subframe+2,3,4,7.8,9) | LTE-TDD | 7,59 | ±9.6 |
| 0486 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.38 | ±9.6 |
| 0487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UI, Subtrame=2,3,4,7,8,9) | LTE-TOD | 8.60 | ±9.6 |
| 0.488 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.70 | ±9.5 |
| 0.489 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.31 | ±9.6 |
| 0490 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | ±9.6 |
| 0.491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe+2,3,4,7,8,9) | LTE-TOD | 7.74 | ±9.6 |
| 0492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7.8.9) | LTE-TOD | 8.41 | ±9.6 |
| 0493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.55 | ±9.6 |
| 0494 | AAG | LTE-TDD (SC-FOMA, 50% RB, 20 MHz, QPSK, LR. Subframe=2,3,4,7,8,9) | LTE-TOD | 7.74 | ±9.6 |
| 0495 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.37 | ±9.6 |
| 0496 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | ±9.6 |
| 0497 | AAC | LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2.3,4,7,8,9) | LTE-TDD | 7.67 | ±9.6 |
| 0498 | AAC | LTE-TDD (SC-FDMA, 100% R8, 1:4 MHz, 15-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.40 | ±9.6 |
| 0.499 | AAC | LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4,7,8,9) | LTE-TOO | 8.68 | ±9.6 |
| 0500 | CAA | LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subframe+2,3,4,7,8,9) | LTE-TDD | 7,67 | ±9.6 |
| 0501 | AAD | LTE-TOD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.44 | ±9.6 |
| 0502 | AAD | LTE-TOD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TD0 | 8.52 | 19.5 |
| 0503 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.72 | ±9.6 |
| 0504 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.31 | ±9.6 |
| 10505 | AAG. | LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.54 | ±9.6 |
| 10506 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.74 | ±9.6 |
| 10507 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.36 | ±9.6 |
| 10508 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz. 64-QAM, UL Subframe+2,3,4.7.8,9) | LTE-TOD | 8.55 | ±9.6 |
| 10.509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.99 | ±9.6 |
| 10510 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8,49 | ±9.6 |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4.7,8,9) | LTE-TOD | 8.51 | ±9.6 |
| 10512 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,5,9) | LTE-TOO | 7.74 | ±9.6 |
| 10513 | DAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.42 | ±9.6 |
| 10514 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.45 | ±9.6 |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) | WLAN | 1.58 | ±9.6 |
| 10516 | .AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) | WLAN | 1.57 | ±9.6 |
| 10517 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) | WLAN | 1,58 | ±9.6 |
| 10518 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.23 | ±9.6 |
| 10519 | and the second second | IEEE 802.11a/h WiFi 5 GHz (OFOM, 12 Mbps, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |
| 10520 | market Saytes | IEEE 802.11a/h WFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.12 | 19.6 |
| 10521 | AAD | IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 7,97 | ±9.6 |
| 10522 | military by the state of the state of | IEEE 802.11a/h WIFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10523 | | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.08 | ±9.6 |
| 10524 | man his wife profess much | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.27 | ±9.6 |
| 10525 | | IEEE 802.11ac WIFI (20 MHz, MCS0, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 0526 | and the second second | IEEE 802.11ac WIFI (20 MHz, MCS1, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 0527 | - | IEEE 802.11ac WIFI (20 MHz, MCS2, 99pc duty cycle) | WLAN | 8.21 | ±9.6 |
| 0528 | coding to the by by beautiful | IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 0529 | _ | | WLAN | 8.36 | ±9.6 |
| 0531 | the second second | A STATE OF THE PARTY OF THE PAR | WLAN | 8.43 | ±9.6 |
| 0532 | | The first the control of the control | WLAN | 8.29 | ±9.6 |
| 0533 | code and provide the | | WLAN | 8.38 | 19.6 |
| 10.534 | | IEEE 802.11ac WFI (40 MHz, MCS0, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10535 | and the last transfer of | | WLAN | 8.45 | ±9.6 |
| 10536 | - | IEEE 802.11ac WIFI (40 MHz, MCS2, 99pc duty cycle) | WLAN | 8.32 | ±9.6 |
| 10537 | - | IEEE 802.11ac WIFI (40 MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | ±9.6 |
| 10538 | _ | | WLAN | 8.54 | ±9.6 |
| 10540 | AAD | IEEE 802.11ac WIFI (40 MHz, MCS6, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|--------------------|--------------------|---|--------------|----------|----------------------|
| 10541 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle) | WLAN | 8.46 | ±9.6 |
| 0542 | AAD | IEEE 802,11ac WFI (40 MHz, MCS8, 99pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 0543 | CAA | IEEE 802.11ac WFI (40 MHz, MCS9, 99pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 0.544 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle) | WLAN | 8.47 | ±0.6 |
| 0545 | AAD | IEEE 802.11ac WFI (80 MHz, MCS1, 96pc duty cycle) | WLAN | 6.55 | ±9.0 |
| 0546 | AAD | IEEE 802 11ac WIFI (80 MHz, MCS2, 99pc duty cycle) | WLAN | 8.35 | ±9.6 |
| 0547 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle) | WLAN | H.49 | ±9.6 |
| 0548 | AAD | IEEE 802.11ac WFI (80 MHz, MCS4, 99pc duty cycle) | WLAN | H.37 | ±9.6 |
| 0550 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle) | WLAN | 8.38 | ±9.6 |
| incidentario de la | AAD | IEEE 802.11ac WFI (80 MHz, MCS7, 99pc duty cycle) | WLAN | 8.50 | 19.6 |
| 10551 | | IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle) | WLAN | 8.42 | 19.6 |
| 0552 | AAD | | WLAN | 8.45 | 19.6 |
| 10553 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8.48 | 19.6 |
| 10554 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle) | WLAN | 8.47 | 19.6 |
| 0.555 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle) | | | 19.6 |
| 0.556 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle) | WLAN | 8.50 | |
| 0557 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS3, 99po duty cycle) | WLAN | 8.52 | ±9.6 |
| 0558 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle) | WLAN | 8.61 | £9.6 |
| 0560 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle) | WLAN | 8.73 | 19.5 |
| 0561 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle) | WLAN | 8.56 | ±9.6 |
| 0562 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle) | WLAN | 8.09 | ±9.6 |
| 0563 | AAE | IEEE 802.11ac WiFi (180 MHz, MCS9, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0.564 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 0565 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.45 | ±9.fi |
| 0566 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.13 | ±9.6 |
| 0867 | AAA | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 8.00 | ±9.6 |
| 0.568 | AAA | IEEE 802 11g WIF) 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.37 | ±9.6 |
| 0569 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.10 | ±9.6 |
| 0570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN | B.30 | ±9.6 |
| 0571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | WLAN | 1.99 | ±9.6 |
| | Mark Street Street | IEEE 802.116 WIFI 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) | WLAN | 1.99 | ±9.6 |
| 0572 | AAA | | | 1.98 | ±9.6 |
| 0573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | WLAN | | |
| 0574 | AAA | IEEE 802,11b WIFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | WLAN | 1.98 | ±9.6 |
| 0575 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | 29.6 |
| 0576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 0577 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 0578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | W.AN | 8.49 | ±9.6 |
| 0.579 | AAA | IEEE 802.11g WiFl 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN | H.36 | ±9.6 |
| 0580 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFOM, 36 Mbps. 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | ±9.6 |
| 0582 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | 19.6 |
| 0583 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | ±9.6 |
| 0584 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | 19.6 |
| 0585 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 0586 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 0587 | AAD | IEEE 802.11ah WIFI 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 0588 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | 19.6 |
| 0589 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | 19.6 |
| 0590 | AAD | IEEE 802.11a/h W/FI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 0.591 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle) | WLAN | 8.63 | 19.6 |
| 0.592 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | 19.6 |
| 0593 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 0594 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.74 | - Control of |
| | AAD | | 7.00.0011011 | 14-20-0 | ±9.6 |
| 0595 | 1111111111 | IEEE 802,11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 0596 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCSS, 90pc duty cycle) | WLAN | 8.71 | ±9.6 |
| 0597 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.72 | ±9.1 |
| 0598 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 0599 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.79 | ±9.8 |
| 0600 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) | WLAN | 88.8 | ±9.6 |
| 0.601 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0602 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.94 | 19.6 |
| 0.603 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle) | WLAN | 9.03 | ±9.6 |
| 0604 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 0605 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.97 | ±9.6 |
| 0606 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0607 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS0, 90pc duty cycle) | WLAN | 8.84 | ±9.6 |
| - 7-7-7 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E & = |
|-------|---------------------|--|-----------|----------|----------------------|
| 0609 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 0610 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 0611 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 0612 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0613 | AAD | IEEE 802 11ac WIFI (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.94 | ±9.5 |
| 0614 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.59 | ±9.6 |
| 0615 | AAD | IEEE 802.11ac WIFI (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0616 | AAD | IEEE 802.11ac WIFI (40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 617 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 0618 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 0619 | AAD | IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| 620 | AAD | IEEE 802.11ac WiFI (40 MHz, MCS4, 90pc duty cycle) | WLAN | 8.87 | ±9.6 |
| 0621 | AAD | IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0622 | CAA | IEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.68 | ±9.6 |
| 623 | AAD | IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0624 | AAD | IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.96 | ±9.6 |
| 625 | CAA | IEEE 802,11ac WIFI (40 MHz, MCS9, 90pc duty cycle) | WLAN | 8.96 | ±9.6 |
| 0626 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 0627 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duly cycle) | WLAN | 8.88 | ±9.6 |
| 0628 | AAD | IEEE 902.11ac WIFI (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.71 | ±9.6 |
| 3629 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) | WI,AN | 8.85 | ±9.6 |
| 0630 | AAD | IEEE 802:11ac WIFI (80 MHz, MCS4, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 0631 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 0832 | AAD | IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 0633 | CAA | IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 0834 | CAA | IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle) | WLAN | 8.80 | ±9.6 |
| 0635 | AAD | IEEE 802.11ac WiFl (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 0636 | AAE | IEEE 802,11ac WiFi (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 0637 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | 19.6 |
| 0838 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| 0639 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | ±9.6 |
| 0640 | AAE | IEEE 802.11ac WiFI (160 MHz, MCS4, 90pc duty cycle) | WLAN | 8.98 | ±9.6 |
| 0641 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS5, 90pc duty cycle) | WLAN | 9.05 | ±9.6 |
| 0642 | AAE | IEEE 802.11ac WIFI (180 MHz, MCS6, 90pc duty cycle) | WLAN | 9.06 | ±9.6 |
| 0643 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| 0644 | AAE | IEEE 802.11ac WIFI (160 MHz, MCS8, 90pc duty cycle) | WLAN | 9.05 | ±9.6 |
| 0645 | AAE | IEEE 802:11ac WIFI (160 MHz, MCS9, 90pc duty cycle) | WLAN | 9.11 | ±9.6 |
| 0646 | MAA | LTE-TDD (SC-FDMA, 1 R8, 5 MHz, QPSK, UL Subframe=2,7) | LTE-TDO | 11.96 | ±9.6 |
| 0647 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | LTE-TD0 | 11.96 | ±9.6 |
| 0648 | AAA. | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ±9.6 |
| 0652 | AAF | LTE-TOD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TOD | 6.91 | ±9.6 |
| 0.653 | AAF | LTE-TDD (OFDMA, 10MHz, E-TM 3.1, Clipping 44%) | LTE-TDO | 7.42 | ±9.6 |
| 0654 | AAE | LTE-TDD (OFDMA, 15MHz, E-TM 3.1, Clipping 44%) | LTE-TD0 | 6.86 | ±9.6 |
| 0655 | AAF | LTE-TDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%) | LTE-TOD | 7.21 | ±9.6 |
| 0658 | AAH | Pulse Waveform (200Hz, 10%) | Test | 10,00 | ±9.6 |
| 0659 | AAB | Pulss Waveform (200Hz, 20%) | Test | 6.99 | ±9.6 |
| 0660 | AAB | Pulse Waveform (200Hz, 40%) | Test | 3.98 | 29.6 |
| 0661 | AAB | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ±9.0 |
| 0.665 | AAB | Pulse Waveform (200Hz, 80%) | Test | 0.97 | 19.6 |
| 0670 | AAA. | Bluetooth Low Energy | Bluetooth | 2,19 | #9.6 |
| 0671 | AAC | IEEE 802.11ax (20 MHz, MGS0, 90pc duty cycle) | WLAN | 9.09 | 19.6 |
| 0672 | AAC | IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 0673 | AAC | IEEE 802,11ax (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.78 | 19.6 |
| 0674 | AAC | IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 0.675 | AAC | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.90 | ±9.8 |
| 0676 | elli mirrima insuma | IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0677 | AAC | IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle) | WLAN | 8.73 | 19.6 |
| 0678 | AAC | (EEE 802.11ax (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 0679 | AAC | IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| 0880 | AAC | IEEE 802.11ax (20 MHz, MGS9, 90pc duty cycle) | WLAN | 8.80 | ±9.6 |
| 10681 | AAC | IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle) | WLAN | 8.62 | ±9.6 |
| 10682 | AAC | IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 10683 | AAC | IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 10684 | AAC | IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle) | WLAN | 8.26 | ±9.6 |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle) | WLAN | 8,33 | 19.6 |
| 10686 | AAC | IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle) | WLAN | 8.28 | ±9.0 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | UngE k = |
|-------|-----|--|--------|----------|----------|
| 10687 | AAC | IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10688 | AAC | IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10689 | AAC | IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 10690 | AAC | IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | ±9:6 |
| 0691 | AAC | IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 0692 | AAC | IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10693 | AAC | IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10694 | AAC | IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 10695 | AAC | IEEE 802.11ax (40 MHz, MCS0, 90pc duly cycle) | WLAN | 8.78 | ±9.6 |
| 10696 | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.91 | ±9.6 |
| 10697 | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.61 | ±9.6 |
| 10698 | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duly cycle) | WLAN | 8.89 | ±9.6 |
| 10699 | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10700 | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.73 | ±9.6 |
| 10701 | AAC | IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle) | WLAN . | 8.86 | ±9.6 |
| 10702 | AAC | IEEE 802.11ax (40 MHz, MCS7, 90pc duly cycle) | WLAN | 8.70 | ±9.6 |
| 10703 | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10704 | AAC | IEEE 802 11ax (40 MHz, MCS9, 90pc duty cycle) | WLAN | 8.56 | ±9.6 |
| 10705 | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 10706 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN | 8.66 | ±9.6 |
| 10707 | AAC | IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle) | WLAN | 8.32 | ±9.6 |
| 10708 | AAC | IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle) | WLAN | 8.56 | ±9.6 |
| 10709 | AAC | IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle) | WLAN | 8.33 | ±9,6 |
| 10710 | AAC | IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10711 | AAC | IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |
| 10712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10713 | AAC | IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle) | WLAN | 8.33 | ±9.6 |
| 10714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle) | WLAN | 8.26 | ±9.6 |
| 10715 | AAC | IEEE 802.118x (40 MHz, MCS8, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle) | WLAN | 8.30 | ±9.6 |
| 10717 | AAC | IEEE 802 11ax (40 MHz, MCS10, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 10718 | AAC | IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle) | WLAN | 8.24 | ±9.6 |
| 10718 | AAC | IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle) | WLAN | 8.81 | 19.6 |
| 10720 | AAC | IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle) | WLAN | 8.87 | 19.5 |
| 10721 | AAC | IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10722 | AAC | IEEE 802.11ex (80 MHz, MCS3, 90pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 10723 | AAC | IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | 19.6 |
| 10724 | AAC | IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| 10725 | AAC | IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | ±9.5 |
| 10726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 10727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle) | WLAN | 8.66 | 19.6 |
| 10728 | AAC | IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 10729 | AAC | IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle) | WLAN | 8.64 | 19.6 |
| 10730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10731 | AAC | IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | 19.6 |
| 10732 | AAC | IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) | WLAN | 8.46 | 19.6 |
| 10733 | AAC | IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle) | WLAN | 8.40 | 19.6 |
| 10734 | AAC | IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle) | WLAN | 8.25 | 19.6 |
| 10735 | AAC | IEEE 802.11ax (80 MHz, MCS4, 98pc duty cycle) | WLAN | 8.33 | 19.6 |
| 10736 | AAC | IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle) | WLAN | 8.27 | ±9.6 |
| 10737 | AAC | IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle) | WLAN | 8.36 | 19.6 |
| 10738 | AAC | IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 10739 | AAC | IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) | WLAN | 8.29 | 19.6 |
| 10740 | AAC | IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 0741 | AAC | IEEE 802.11ax (80 MHz, MCS10, 98pc duty cycle) | WLAN | 8.40 | 19.6 |
| 10742 | | IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) | WLAN | 8.43 | 19.6 |
| 10743 | AAC | IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.94 | 19.6 |
| 10744 | AAC | IEEE 802,11ax (160 MHz, MCS1, 90pc duty cycle) | WLAN | 9.16 | 19.6 |
| 10745 | AAC | IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.93 | 19.6 |
| 10746 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) | WLAN | 9.11 | ±9.6 |
| 10747 | AAC | IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) | WLAN | 9.04 | 19.6 |
| 10748 | AAC | IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) | WLAN | 8.93 | |
| 10749 | AAC | IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle) | WLAN | 8.90 | 19.6 |
| 10750 | AAC | IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle) | WLAN | | ±9.6 |
| 10000 | AAC | IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) | WLAN | 8.79 | ±9.6 |
| 10751 | | | | | |

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| UID | Rev. | Communication System Name | 100000000000000000000000000000000000000 | PAR (dB) | Unc ^E k = |
|----------------------|-----------------------------|--|--|----------|-----------------------|
| 10753 | AAC | IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle) | WLAN | 9:00 | ±9.6 |
| 0.754 | AAC | IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 0.765 | AAC | IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 0756 | AAC | IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0757 | AAC | IEEE 802.11ax (160 MHz, MCS2, 99pc duly cycle) | WLAN | 8.77 | ±9.6 |
| 0758 | AAC | IEEE 802 11ax (160 MHz, MCS3, 99pc duty cycle) | WLAN | 8.69 | 19.6 |
| 0759 | AAC | IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 0760 | AAC | IEEE 802-11ax (160 MHz, MCS5, 99pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 0761 | AAC | IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) | WLAN | 8.56 | ±9.6 |
| 0762 | AAC | IEEE 802.11ax (160MHz, MCS7, 99pc duly cycle) | WLAN | 8.49 | ±9.6 |
| CALCALORS CO. | AAC | IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) | WLAN | 8.53 | ±9.6 |
| 0763 | AAC | IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) | WLAN | 8.54 | ±9.6 |
| 0.766 | AAC | IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) | WLAN | 8.54 | ±9.6 |
| | AAC | IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) | WLAN | 8.51 | ±9.6 |
| 0766 | A Company of the | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | ±9.6 |
| 0767 | AAG | A CONTRACTOR OF THE PROPERTY O | 5G NR FR1 TDD | 8.01 | 19.6 |
| 0768 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TOD | 8.01 | 19.6 |
| 0769 | CAA | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | 19.6 |
| 0770 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | 19.6 |
| 0771 | AAD | 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15MHz) | 5G NR FRI TDD | 8.23 | 19.6 |
| 0772 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | The second secon | 8.03 | 19.6 |
| 0773 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 |
| 10774 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | A CONTRACTOR OF THE PROPERTY O | | and the second second |
| 10775 | AAF | 5G NR (CP-OFDM, 50% RB, 5MHz, QPSK, 15kHz) | SG NR FR1 TOD | 8.31 | ±9.6 |
| 10.776 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ±9.6 |
| 10777 | AAG | SG NR (CP-OFOM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TOD | 8.30 | ±9.6 |
| 10778 | AAE | 5G NR (CP-OFOM, 50% RB, 20 MHz, QPSK, 15 kHz) | 50 NR FR1 TOD | 8.34 | ±9.6 |
| 10779 | AAC | 5G NR (CP-OFOM, 50% RB, 25MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.42 | ±9.6 |
| 10780 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TD0 | 8.38 | ±9.6 |
| 10781 | AAF | 5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 15 kHz) | 5G NR FR1 TDO | 8.38 | ±9.6 |
| 10782 | AAE | 5G NR (CP-OFDM, 50% RB, 56 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.43 | 29.6 |
| 10783 | AAG | 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15 kHz) | 5G NR FR1 TD0 | 8.31 | ±9.6 |
| 10784 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QP5K, 15 kHz) | 5G NR FR1 TDD | 8.29 | ±9.6 |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 |
| 10786 | AAE | 56 NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TOD | 8.35 | 19.5 |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ±9.6 |
| 10768 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) | 5G NR FR1 TOD | 8.39 | 19.6 |
| 10.789 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10790 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 |
| 10791 | AAG | 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 7.83 | ±9.6 |
| 10792 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.92 | ±9.5 |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.95 | 19.6 |
| 10794 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TD0 | 7.82 | ±0.6 |
| 10795 | CAA | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7,84 | ±9.€ |
| 10796 | AAE | 5G NR (CP-OFDM; 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ±9.6 |
| 10797 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.01 | ±9.6 |
| 10798 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ±9.6 |
| 10799 | AAF | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 7.93 | ±9.6 |
| 10801 | AAF | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ±9.6 |
| 10802 | AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 7.87 | ±9.6 |
| 10803 | AAF | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ±9.6 |
| 10805 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TOO | 8.34 | ±9.6 |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10809 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDO | 8.34 | ±9.6 |
| 10810 | AAF | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10812 | AAF | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 10817 | | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 10818 | - | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10819 | to Browler (Stratum partiti | 5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30 KHz) | 5G NR FR1 TDD | 8.33 | ±9.6 |
| 10820 | | 5G NR (CP-OFDM, 100% R8, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.30 | ±9.6 |
| 10821 | - | 5G NR (CP-OFDM, 100% R8, 25 MHz, QPSK, 30 kHz) | 5G NA FR1 TDD | 8.41 | ±9.6 |
| 10822 | - | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | 29.6 |
| 10823 | - | 5G NR (CP-OFDM, 100% R8, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 10824 | | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.39 | ±9.6 |
| | | 5G NR (CP-QFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | B.41 | ±9.6 |
| eren/eren/orde/orene | 49-41-2 | | | | 0.000 |
| 10825 | - | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.42 | ±9.6 |

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| 10829 AAF 10830 AAE 10831 AAD 10832 AAE 10833 AAD 10834 AAE 10835 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10844 AAE 10845 AAE 10855 AAD 10856 AAE 10857 AAD 10856 AAE 10858 AAE 10859 AAF 10860 AAE 10860 AAE 10861 AAF 10861 AAF 10863 AAF 10863 AAF 10864 AAE 10865 AAF 10866 AAF 10867 AAD 10868 AAF 10868 AAF 10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10879 AAE 10878 AAE 10879 AAE 10878 AAE 10879 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE | | SG NR FRI TDD | 8.40 7.63 7.73 7.74 7.70 7.75 7.70 7.66 7.68 | ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 |
|---|--|--|--|--|
| 10831 AAD 10832 AAE 10833 AAD 10835 AAF 10836 AAE 10837 AAF 10838 AAF 10840 AAE 10854 AAE 10855 AAD 10856 AAE 10858 AAF 10858 AAF 10858 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10877 AAF 10876 AAE 10878 AAE 10888 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 7.73 7.74 7.70 7.75 7.70 7.66 7.68 | ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 |
| 10831 AAD 10832 AAE 10833 AAD 10835 AAF 10836 AAE 10837 AAF 10838 AAF 10838 AAF 10837 AAF 10838 AAF 10838 AAF 10838 AAF 10838 AAF 10838 AAF 10840 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAF 10860 AAF 10861 AAF 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10870 AAE 10871 AAE 10872 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAF 10878 AAE 10877 AAF 10878 AAE 10878 AAE 10877 AAF 10878 AAE 10880 AAE 10880 AAE 10881 AAE 10880 AAE 10881 AAE 10883 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | SG NR FRI TDD 5G NR FRI TDD | 7.74 7.70 7.75 7.70 7.66 7.68 | ±9.6 ±9.6 ±9.6 ±9.6 |
| 10832 AAE 10833 AAD 10834 AAE 10833 AAP 10836 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10844 AAE 10845 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10859 AAE 10860 AAE 10861 AAF 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10862 AAE 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10865 AAE 10867 AAE 10877 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10883 AAE 10883 AAE 10883 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10899 AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 35 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50%, RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 7.70 7.75 7.70 7.66 7.68 | ±9.6 ±9.6 ±9.6 |
| 10833 AAD 10834 AAE 10835 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10838 AAE 10838 AAE 10838 AAE 10838 AAE 10841 AAE 10844 AAE 10845 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10860 AAE 10861 AAF 10860 AAE 10861 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAE 10867 AAE 10871 AAE 10871 AAE 10877 AAE 10877 AAE 10878 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 50%, RB, 15 MHz, QPSK, 80 kHz) | 50 NR FR1 TDD 56 NR FR1 TDD 56 NR FR1 TDD 50 NR FR1 TDD 56 NR FR1 TDD 50 NR FR1 TDD | 7.75 7.70 7.66 7.68 | ±9.6 ±9.6 |
| 10834 AAE 10835 AAF 10838 AAE 10838 AAF 10838 AAF 10838 AAF 10840 AAE 10841 AAF 10846 AAE 10846 AAE 10846 AAE 10857 AAD 10858 AAE 10858 AAF 10860 AAF 10861 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10871 AAE 10871 AAE 10871 AAE 10877 AAE 10877 AAE 10878 AAE 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10887 AAE 10887 AAE 10887 AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50%, RB, 15 MHz, QPSK, 60 kHz) | SG NR FR1 TDD SG NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD | 7.70 7.66 7.68 | ±9.6 |
| 10835 AAF 10838 AAE 10837 AAF 10838 AAE 10837 AAF 10839 AAF 10840 AAE 10841 AAE 10841 AAE 10844 AAE 10845 AAD 10856 AAD 10857 AAD 10858 AAF 10857 AAD 10868 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10865 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10876 AAE 10877 AAE 10878 AAE 10888 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | SG NR FRI TDD SG NR FRI TDD SG NR FRI TDD SG NR FRI TDD | 7.66 7.68 | |
| 10838 AAE 10837 AAF 10838 AAF 10838 AAF 10838 AAF 10841 AAE 10844 AAE 10844 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10861 AAF 10862 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10867 AAD 10871 AAE 10871 AAE 10871 AAE 10871 AAE 10871 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10878 AAE 10879 AAE 10888 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 50 NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD | 7.68 | 100.0 |
| 10837 AAF 10839 AAF 10839 AAF 10839 AAF 10834 AAF 10841 AAF 10844 AAE 10846 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAF 10861 AAF 10861 AAF 10861 AAF 10862 AAF 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10867 AAE 10870 AAE 10871 AAE 10871 AAE 10871 AAE 10872 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10888 AAF 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10888 AAE 10889 AAE 10888 AAE 10889 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 50 NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD | 7.68 | ±9.6 |
| 10839 AAF 10840 AAE 10841 AAF 10844 AAE 10844 AAE 10844 AAE 10854 AAE 10855 AAE 10857 AAD 10858 AAE 10858 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10870 AAE 10871 AAE 10871 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10870 AAE 10870 AAE 10870 AAE 10870 AAE 10871 AAE 10871 AAE 10871 AAE 10872 AAE 10873 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TD0 5G NR FR1 TD0 | 10.400 | ±9.6 |
| 10840 AAE 10841 AAF 10843 AAO 10844 AAE 10846 AAE 10854 AAE 10855 AAD 10858 AAE 10859 AAE 10859 AAE 10860 AAE 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10863 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10871 AAE 10872 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 80 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 80 kHz) | 50 NR FR1 TDD | 7.70 | ±9.6 |
| 10841 AAF 10843 AAO 10844 AAE 10846 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAF 10861 AAF 10861 AAF 10868 AAF 10868 AAF 10868 AAF 10867 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, OPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, OPSK, 60 kHz) | | 7.67 | ±9.6 |
| 10848 AAD 10844 AAE 10846 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAE 10859 AAF 10860 AAE 10861 AAF 10861 AAF 10861 AAF 10861 AAF 10862 AAF 10863 AAF 10863 AAF 10863 AAF 10863 AAF 10864 AAE 10867 AAE 10870 AAE 10871 AAE 10871 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10888 AAF 10888 AAE 10889 AAE | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.71 | ±9.6 |
| 10844 AAE 10846 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAE 10858 AAE 10860 AAE 10861 AAF 10861 AAF 10868 AAF 10868 AAF 10867 AAE 10870 AAE 10871 AAE 10877 AAE 10877 AAE 10877 AAE 10878 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE | | 5G NR FR1 TDD | 8.49 | ±9.6 |
| 10846 AAE 10854 AAE 10855 AAD 10856 AAE 10857 AAD 10858 AAE 10859 AAE 10860 AAE 10861 AAF 10861 AAF 10863 AAF 10863 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10870 AAE 10871 AAE 10872 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10897 AAE | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 KHz) | and the second s | 8.34 | ±9.6 |
| 10854 AAE 10855 AAD 10856 AAE 10856 AAE 10857 AAD 10858 AAE 10859 AAF 10861 AAF 10861 AAF 10861 AAF 10868 AAF 10868 AAF 10868 AAF 10868 AAF 10869 AAE 10870 AAE 10870 AAE 10871 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10888 AAE 10887 AAE 10888 AAE 10889 AAE | | 5G NR FR1 TOD | 8.41 | 19.6 |
| 10855 AAD 10856 AAE 10857 AAD 10858 AAF 10859 AAF 10860 AAE 10861 AAF 10863 AAF 10866 AAF 10866 AAF 10866 AAF 10867 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10888 AAE 10889 AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 1000000 | |
| 10856 AAE 10857 AAD 10858 AAE 10857 AAD 10858 AAE 10861 AAF 10861 AAF 10863 AAF 10866 AAF 10866 AAF 10868 AAE 10870 AAE 10871 AAE 10877 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10890 AAE | | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10857 AAD 10858 AAF 10859 AAF 10860 AAF 10861 AAF 10863 AAF 10863 AAF 10866 AAF 10866 AAF 10868 AAF 10870 AAE 10871 AAE 10877 AAE 10876 AAE 10877 AAE 10878 AAE 10879 AAE 10880 AAE 10880 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE | | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 10858 AAE 10859 AAF 10860 AAE 10861 AAF 10861 AAF 10863 AAF 10865 AAF 10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10877 AAE 10878 AAE 10879 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10859 AAF 10861 AAF 10861 AAF 10863 AAF 10865 AAF 10866 AAF 10866 AAF 10867 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | 50 NR FR1 TDD | 8.35 | ±9.6 |
| 10960 AAE 10961 AAF 10963 AAF 10963 AAF 10966 AAF 10966 AAF 10968 AAF 10969 AAE 10870 AAE 10871 AAE 10871 AAE 10877 AAE 10876 AAE 10878 AAE 10888 AAE 10889 AAE 10889 AAE 10890 AAE | 5G NR (CP-QFOM, 100% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 10861 AAF 10863 AAF 10864 AAE 10866 AAF 10868 AAF 10868 AAF 10868 AAF 10871 AAE 10872 AAE 10873 AAE 10876 AAE 10876 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 80 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10861 AAF 10863 AAF 10864 AAE 10866 AAF 10868 AAF 10868 AAF 10868 AAF 10871 AAE 10872 AAE 10873 AAE 10876 AAE 10876 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE | The state of the s | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10863 AAF 10864 AAE 10865 AAF 10866 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10879 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10885 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10889 AAE 10889 AAE 10889 AAE 10890 AAE | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) | 5G NA FR1 TDD | 8.40 | ±9.6 |
| 10864 AAE 10865 AAF 10866 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10874 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10881 AAE 10882 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE 10888 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10889 AAE 10890 AAE | Control of the Contro | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10865 AAF 10866 AAF 10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10888 AAE 10889 AAE 10890 AAE | | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10866 AAF 10868 AAF 10868 AAF 10869 AAE 10871 AAE 10872 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10876 AAE 10877 AAE 10878 AAE 10879 AAE 10879 AAE 10880 AAE 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10890 AAE | | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10868 AAF 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10875 AAE 10875 AAE 10876 AAE 10877 AAE 10877 AAE 10878 AAE 10878 AAE 10878 AAE 10881 AAE 10882 AAE 10883 AAE 10883 AAE 10885 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10887 AAE 10888 AAE | | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10869 AAE 10870 AAE 10871 AAE 10873 AAE 10873 AAE 10874 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAF 10878 AAE 10879 AAF 10883 AAE 10883 AAE 10883 AAE 10884 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10888 AAE 10887 AAE 10889 AAE 10899 AAE 10899 AAE 10899 AAE 10899 AAE | | 5G NR FR1 TDD | 5.89 | ±9.6 |
| 10870 AAE 10871 AAE 10871 AAE 10872 AAE 10873 AAE 10874 AAE 10875 AAE 10876 AAE 10877 AAE 10879 AAE 10870 AAE 10880 AAE 10883 AAE 10883 AAE 10885 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10899 AAE 10890 AAE | | 5G NR FR2 TDD | 5.75 | ±9.6 |
| 10871 AAE 10872 AAE 10873 AAE 10873 AAE 10875 AAE 10876 AAE 10876 AAE 10877 AAE 10879 AAE 10880 AAE 10880 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10889 AAE 10889 AAE 10889 AAE 10889 AAE 10890 AAE | | 5G NR FR2 TD0 | 5.86 | ±9.6 |
| 10872 AAE 10873 AAE 10874 AAE 10875 AAF 10876 AAE 10877 AAF 10877 AAF 10878 AAE 10879 AAE 10881 AAE 10882 AAE 10883 AAE 10885 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10887 AAE 10888 AAE 10889 AAE 10897 AAE 10891 AAE 10891 AAE 10892 AAE | | and the second s | | |
| 10873 AAE 10874 AAE 10875 AAE 10877 AAE 10878 AAE 10877 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10885 AAE 10888 AAE 10887 AAE 10887 AAE 10888 AAE 10887 AAE 10899 AAE 10899 AAE 10899 AAE 10899 AAE | | 5G NR FR2 TD0 | 5.75 | ±9.6 |
| 10874 AAE 10875 AAF 10876 AAE 10876 AAE 10877 AAF 10877 AAF 10879 AAE 10880 AAE 10883 AAF 10883 AAF 10885 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10890 AAE 10890 AAE | | 5G NR FR2 TDD | 6.52 | ±9.6 |
| 10875 AAE 10876 AAE 10877 AAE 10877 AAE 10879 AAE 10880 AAE 10880 AAE 10883 AAE 10883 AAE 10884 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10899 AAE 10890 AAE | | 5G NR FR2 TDD | 6.61 | ±9.6 |
| 10876 AAE 10877 AAE 10878 AAE 10878 AAE 10879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10888 AAE 10888 AAE 10889 AAE 10899 AAE 10899 AAE 10899 AAE | | 5G NR FR2 TDD | 6.65 | ±9.6 |
| 10877 AAE 10878 AAE 10879 AAE 108879 AAE 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10886 AAE 10886 AAE 10887 AAE 10888 AAE 10887 AAE 10890 AAE 10891 AAE 10891 AAE 10892 AAE 10893 AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ±9.6 |
| 10878 AAE 10879 AAF 10880 AAE 10881 AAE 10883 AAE 10883 AAE 10885 AAE 10887 AAE 10888 AAE 10888 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE 10893 AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8:39 | ±9.6 |
| 10870 AAE 10880 AAE 10881 AAE 10881 AAE 10883 AAE 10884 AAE 10885 AAE 10886 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE 10892 AAE 10893 AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 7,95 | ±9.6 |
| 10880 AAE 10881 AAE 10882 AAE 10883 AAE 10885 AAE 10886 AAE 10888 AAE 10889 AAE 10889 AAE 10890 AAE 10891 AAE 10893 AAE 10893 AAE 10893 AAE 10893 AAE 10893 AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ±9.6 |
| 10881 AAE 10882 AAE 10883 AAE 10885 AAE 10886 AAE 10887 AAE 10887 AAE 10889 AAE 10899 AAE 10891 AAE 10891 AAE 10891 AAE 10892 AAE 10893 AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | B.12 | ±9.6 |
| 10882 AAE 10883 AAE 10884 AAE 10885 AAE 10887 AAE 10888 AAE 10889 AAE 10891 AAE 10891 AAE 10892 AAE 10893 AAE 10893 AAE | 5G NR (CP-OFDM, 100% RB, 100MHz, 64QAM, 120kHz) | 5G NR FR2 TOD | 8.38 | ±9.6 |
| 10883 AAE 10884 AAE 10885 AAE 10887 AAE 10887 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10898 AAE 10898 AAE | 5G NR (DFT-a-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TOD | 5.75 | ±9.6 |
| 10883 AAE 10885 AAE 10885 AAE 10888 AAE 10888 AAE 10888 AAE 10889 AAE 10891 AAE 10892 AAE 10892 AAE 10898 AAC 10898 AAC | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TOD | 5.96 | ±9.6 |
| 10884 AAE 10885 AAE 10886 AAE 10887 AAE 10889 AAE 10889 AAE 10891 AAE 10891 AAE 10897 AAE 10897 AAE 10898 AAC | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ±9.6 |
| 10885 AAE 10886 AAE 10887 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10893 AAE 10898 AAC 10899 AAC | A STATE OF A PART OF THE STATE | 5G NR FR2 TDD | 6.53 | ±9.6 |
| 10886 AAE 10887 AAE 10888 AAE 10889 AAE 10891 AAE 10891 AAE 10891 AAE 10897 AAE 10898 AAC 10899 AAB | | 5G NR FR2 TDD | 6.61 | ±9.6 |
| 10887 AAE 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB | | 5G NR FR2 TDD | 6.65 | ±9.6 |
| 10888 AAE 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB | | 5G NR FR2 TDD | 7.78 | ±9.6 |
| 10889 AAE 10890 AAE 10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC | | 5G NR FR2 TDD | 8.35 | ±9.6 |
| 10890 AAE 10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC | | SG NR FR2 TDD | 8.02 | 19.6 |
| 10891 AAE 10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC | | See a Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - | |
| 10892 AAE 10897 AAE 10898 AAC 10899 AAB 10900 AAC | | 5G NR FR2 TDD | 8.40 | ±9.6 |
| 10897 AAE 10898 AAC 10899 AAB 10900 AAC | AND | 5G NR FR2 TOD | 8.13 | 19.6 |
| 10898 AAC 10899 AAB 10900 AAC | | 5G NR FR2 TDD | 8.41 | ±9.6 |
| 10899 AAB 10900 AAC | | 5G NR FR1 TDD | 5.66 | 19.6 |
| 10900 AAC | | 5G NR FR1 TDD | 5.67 | 19.8 |
| CONTRACTOR OF CONTRACTOR | and the first the first term of the first term o | 5G NR FR1 TDD | 5.67 | ±9.6 |
| 10901 AAB | | 5G NR FR1 TDD | 5.68 | ±9.6 |
| | 5G NR (DFT-s-OFOM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10902 AAC | | 5G NR FR1 TDD | 5.88 | 19.6 |
| 10903 AAD | 5G NR (DFTs-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10904 AAC | entranspropriate participation of the Control of th | 5G NR FR1 TDD | 5.68 | ±9.5 |
| 10905 AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10906 AAD | 5G NR (DFTs-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.88 | 19.6 |
| 10907 AAE | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | | 5.78 | ±9.6 |
| 10907 AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G MB EBt TBD | | - |
| 10909 AAB | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10910 AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 1 GG NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD | 5.93 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | and the second second |
|---------------|-------------------------|--|--|----------|-----------------------|
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 5.93 | ±9,6 |
| 10912 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.84 | 19.6 |
| 10913 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 0914 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 50MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.85 | ±9.6 |
| 0915 | (IAA | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 5.83 | ±9.6 |
| 0916 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ±9.6 |
| 0917 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ±9.6 |
| 0918 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | 39.6 |
| 0919 | AAC | 5G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.86 | ±9.6 |
| 0920 | AAB | 5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ±9.6 |
| 0921 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 0922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.82 | ±9.6 |
| - Calabara | AAC | 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 5.84 | ±9.6 |
| 0923 | 1000000 | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 0924 | AAD | A STATE OF THE PARTY OF THE PAR | 5G NR FR1 TDD | 5.95 | ±9.6 |
| 0925 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDO | 5.84 | ±9.6 |
| 0926 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FRI TDO | 5.94 | ±9.6 |
| 0927 | AAD | 5G NR (DFT-6-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | The Control of the Co | | - |
| 0928 | CIAA | 5G NR (DFT-s-OFDM, 1 R8, 5MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.52 | ±9.6 |
| 0929 | AAD | 5G NR (DFT-e-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ±9.6 |
| 0930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ±9.6 |
| 0931 | AAC | 5G NR (DFT-II-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5,51 | ±9.6 |
| 0932 | AAC | 5G NR (DFT-a-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ±9.6 |
| 0933 | AAG | 50 NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ±9.6 |
| 0934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | 29.6 |
| 0935 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ±9.6 |
| 0936 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.90 | ±9.6 |
| 0937 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ±9.6 |
| 0938 | AAG | 8G NR (DFT-e-OFDM, 50% RB, 15MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.90 | ±9.6 |
| 0939 | AAC | 5G NR (DFTs-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | ±9.6 |
| 0940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.89 | 19.6 |
| 0941 | AAG | 5G NR (DFT-e-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | 19.6 |
| 0942 | AAC | 5G NR (DFT-e-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ±9.6 |
| 0943 | AAD | SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDO | 5.95 | ±9.6 |
| 0944 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.81 | ±9.6 |
| 10945 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.85 | 19.6 |
| 0946 | AAC | 5G NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.83 | ±9.6 |
| sendantertore | AAC | | 5G NR FR1 FD0 | 5.87 | ±9.6 |
| 0947 | The second | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FD0 | 5.94 | 19.6 |
| 0948 | AAC | 5G NR (DFT-e-OFDM, 100% RB, 25MHz, QPSK, 15kHz) | The best of the state of the st | | - |
| 0949 | AAC | 5G NR (DFT-e-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) | 5G NR FR1 FDD | 5.87 | ±9.6 |
| 0950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | 19.6 |
| 0951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | ±9.6 |
| 0952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.25 | ±9.6 |
| 0953 | AAA | 5G NR Dt. (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.15 | ±9.6 |
| 0954 | AAA | 5G NR DL (CP-DFDM, TM 3.1, 15 MHz, 84-QAM, 15 kHz) | 5G NR FR1 FDD | 8.23 | ±9.6 |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.42 | ±9,6 |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.14 | ±9.6 |
| 0957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | ±9.6 |
| 0958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.61 | ±9.6 |
| 0.959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.33 | ±9.6 |
| 0960 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.32 | ±9.6 |
| 0961 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.36 | ±9.6 |
| 0962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.40 | ±9.6 |
| 0963 | AAG | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.55 | 19.0 |
| 0964 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.29 | ±9.6 |
| 0985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.37 | 19.6 |
| 0966 | | 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) | 50 NR FR1 TDD | 9.55 | 19.6 |
| 0967 | - | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | SG NR FR1 TDD | 9.42 | 19.0 |
| | A CONTRACTOR | | The state of the s | - | - |
| 0968 | AAD | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 9.49 | ±9.6 |
| 0972 | in the street was being | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz) | | 11.59 | 19.8 |
| 0973 | | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 9.06 | 19.0 |
| 10974 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) | 5G NR FR1 TDD | 10.28 | ±9.6 |
| 0978 | | ULLA BOR | ULLA | 1.16 | 19.6 |
| 10979 | AAA | ULLA HDR4 | ULLA | 8.58 | 19.6 |
| 0980 | AAA | ULLA HDR8 | ULLA | 10.32 | ±9.4 |
| 10981 | AAA | ULLA HDRp4 | ULLA | 3.19 | ±9.6 |
| 10982 | AAA | ULLA HDRp8 | ULLA | 3.43 | 19.6 |

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May 28, 2024



EX3DV4 - SN:7655

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E $k = 2$ |
|-------|-----|--|---------------|----------|--------------------------|
| 10983 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31 | ±9.6 |
| 10984 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDO | 9.42 | ±9.6 |
| 10985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54 | ±9.6 |
| 10986 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDO | 9.50 | ±9.6 |
| 10987 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53 | ±9.6 |
| 10988 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 50 NR FR1 TDD | 9.38 | ±9.6 |
| 10989 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33 | ±9.6 |
| 10990 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDO | 9.52 | 19.6 |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24 | ±9.6 |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73 | 19.6 |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDO | 8.70 | ±9.6 |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55 | 19.6 |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15kHz) | 5G NR FR1 FDD | 8.45 | ±9.6 |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15kHz) | 5G NR FR1 FDD | 8.51 | ±9.6 |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FD0 | 8.76 | ±9.6 |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.95 | ±9.6 |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.96 | ±9.6 |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 84-QAM, 30 kHz) | 5G NR FR1 FDD | 8.68 | ±9.6 |
| 11013 | AAB | IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle) | WLAN | 8.47 | ±9.6 |
| 11014 | AAB | IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 11015 | AAB | IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | ±9.6 |
| 11016 | AAB | IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle) | W.AN | 8.44 | ±9.6 |
| 11017 | AAB | IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle) | WLAN | 8.41 | ±9.6 |
| 11018 | AAB | IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle) | WLAN | 8.40 | ±9.6 |
| 11019 | AAB | IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 11020 | AAB | IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle) | WLAN | 8.27 | ±9.6 |
| 11021 | AAB | IEEE 802.11be (320 MHz, MCS9, 99pc duty dycle) | WLAN | 8.46 | ±9.6 |
| 11022 | AAB | IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 11023 | AAB | IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle) | WLAN | 8.09 | 19.6 |
| 11024 | AAB | IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 11025 | AAB | IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle) | WLAN | 8.37 | 19.6 |
| 11026 | AAB | IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |

E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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AppendixG. - Dipole Calibration Data

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service sulsse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client HCT

Certificate No. D450V2.5-1007_Jul23

| Calibration procedure(s) Calibration date: July This calibration certificate documents the first eneasurements and the uncertainties was a calibration of the calibrations have been conducted in the Calibration Equipment used (M&TE critical Primary Standards Primary Standards Prower sensor NRP-291 Prower sensor NRP-291 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 SN: 1 Secondary Standards Prower meter NRP2 SN: 1 Prower sensor NRP-291 SN: 1 Prower sensor NRP-291 SN: 1 Prower sensor NRP-291 SN: 1 Reference Probe EX3DV4 SN: 1 Refere | aceability to nation with confidence pro- or closed laboratory for calibration) 04778 03244 03245 8H9394 (20k) 10982 / 06327 | dure for SAR Validation and standards, which realize the pobability are given on the following | ohysical units of g pages and an e (82 ± 3)°C an (05) | f measurements (SI). a part of the certificate. |
|--|--|---|--|--|
| Calibration date: July This calibration certificate documents the fifther measurements and the uncertainties was all calibrations have been conducted in the Calibration Equipment used (M&TE critical Primary Standards ID # ID # | naceability to nation with confidence pro or closed laboratory for calibration) 04778 03244 03245 8H9394 (20k) 110982 / 06327 | chair standards, which realize the pobability are given on the following facility: environment temperature. Cal Date (Certificate No.): 30-Mar-23 (No. 217-03804)036 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | ohysical units of g pages and an e (82 ± 3)°C an (05) | f measurements (SI). e part of the certificate. d humidity < 70%, Scheduled Calibration Mar-24 Mar-24 Mar-24 Mar-24 Mar-24 |
| This calibration certificate documents the first measurements and the uncertainties of All calibrations have been conducted in the Calibration Equipment used (M&TE critical Primary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 Reference 20 dB Attenuator SN: 8 Type-N mismatch combination SN: 8 Reference Probe EX3DV4 SN: 8 DAE4 SN: 6 Secondary Standards ID # Power sensor NRP-Z91 SN: 1 Ref generator HP 8648C SN: L Name | raceability to nation with confidence pro- or closed laboratory for calibration) 04778 03244 03245 3H9394 (20k) 10982 / 06327 | Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | g pages and an e (22 ± 3)°C an (05) | e part of the certificate. d humidity < 70%, Scheduled Calibration Mar-24 Mar-24 Mar-24 Mar-24 Mar-24 |
| The measurements and the uncertainties via management and the uncertainties via All calibrations have been conducted in the Calibration Equipment used (M&TE critical Primary Standards ID # Power sensor NRP-291 SN: 1 Power sensor NRP-291 SN: 1 Power sensor NRP-291 SN: 1 Reference 20 dB Attenuator SN: 8 Reference Probe EX3DV4 SN: 3 DAE4 SN: 6 Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-291 SN: 1 Power sensor NRP-291 SN: 1 Power sensor NRP-291 SN: 1 RF generator HP 8648C SN: L Name | with confidence pro- closed laboratory for calibration) 04778 03244 03245 8H9384 (20k) 10982 / 06327 | Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | g pages and an e (22 ± 3)°C an (05) | e part of the certificate. d humidity < 70%, Scheduled Calibration Mar-24 Mar-24 Mar-24 Mar-24 Mar-24 |
| Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Pawer sensor NRP-Z91 SN: 1 Reference 20 dB Attenuator SN: 8 Type-N mismatch combination SN: 3 Reference Probe EX3DV4 SN: 3 DAE4 SN: 6 Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator MP-Z91 SN: 1 RF generator MP-Z91 SN: 1 Network Analyzer Agilent E8358A SN: L | 03244 03245 8H9394 (20k) 110962 / 06327 | 30-Mar-23 (No. 217-03804/038 30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | | Mar-24 Mar-24 Mar-24 Mar-24 |
| Pawer meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Pawer sensor NRP-Z91 SN: 1 Reference 20 dB Attenuator SN: 8 Type-N mismatch combination SN: 3 Reference Probe EX3DV4 SN: 5 DAE4 SN: 6 Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator HP-8648C SN: L Name | 03244 03245 8H9394 (20k) 110962 / 06327 | 30-Mar-23 (No. 217-03804/038 30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | | Mar-24 Mar-24 Mar-24 Mar-24 |
| Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 Reference 20 dB Attenuator SN: 8 Type-N mismatch combination SN: 3 Reference Probe EX3DV4 SN: 5 DAE4 Sn: 6 Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator HP-8648C SN: L Name | 03244 03245 8H9394 (20k) 110962 / 06327 | 30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | | Mar-24 Mar-24 Mar-24 |
| Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 SN: 3 DAE4 Ssecondary Standards Power meter NRP2 Power sensor NRP-Z91 RF generator HP 8648C Network Analyzer Agilant E8358A SN: L Name | 8H9394 (20k) 110982 / 06327 1877 | 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | enii) | Mar-24 |
| Type-N mismatch combination SN: 3 Reference Probe EX3DV4 SN: 3 DAE4 SN: 6 Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator HP 8648G SN: L Name | 110982 / 06327 877 | 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) | | 1.00 |
| Reference Probe EX3DV4 SN: 3 DAE4 SN: 6 Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator NP 8648G SN: L Name | 877 | 30-Mar-23 (No. 217-03810) | | Mar-24 |
| DAE4 SN: 6 Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator HP 8648C SN: L Name | | 06-Jan-23 (No. EX3-3877_Jan | 24.60 | |
| Secondary Standards ID # Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator HP 8648C SN: L Name | E.A | | 23) | Jan-24 |
| Power meter NRP2 SN: 1 Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator HP 8648C SN: L Network Analyzer Aglient E8358A SN: L | ion. | 27-Jan-23 (No. DAE4-654_Jan | 23) | Jan-24 |
| Power sensor NRP-Z91 SN: 1 Power sensor NRP-Z91 SN: 1 RF generator HP 8648C SN: L Network Analyzer Agilent E8358A SN: L Name | | Check Date (in house) | | Scheduled Check |
| Power sensor NRP-Z91 SN: 1 RF generator HP 8648C SN: L Network Analyzer Aglient E8358A SN: L Name | 07193 | 08-Nov-21 (in house check Dec | :-22) | In house check: Dec-24 |
| RF generator HP 8648C SN: U Network Analyzer Agilant E8358A SN: U Name | 00922 | 15-Dec-09 (in house check Dec | -22) | In house check: Dec-24 |
| Network Analyzer Agilent E8358A SN: L Name | 00418 | 01-Jan-04 (in house check Dec | -22) | In house check; Dec-24 |
| Name | JS3642U01700 | 04-Aug-99 (in house check Jun | -22) | In house check: Jun-24 |
| | JS41080477 | 31-Mar-14 (in house check Oct | -22) | In house check: Oct-24 |
| Salibrated by: Jeffre | | Function | | Signature / |
| | y Katzman | Laboratory Technic | tian | 111 |
| | | | 1 | 1.00 |
| Approved by: Sven | Kühn | Technical Manager | | 0 |
| STEWN NOT STATE IN | PRESENT. | . Statistical manager | | 3.00 |
| | | | | Issued: July 20, 2023 |
| This calibration certificate shall not be repro | oduced except in f | ull without written approval of the | laboratory | 1 2 1 3 x |
| NEW TRANSPORTER PRODUCTION OF THE PRODUCTION OF | | - 3 | | H 11 |
| ertificate No: D450V2.5-1007_Jul23 | | Page 1 of 6 | B (| 6 100 |
| | | 191 | " - | UE289 67 1986 |

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage

Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the sign

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL ConvF

N/A

tissue simulating liquid

sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D450V2.5-1007_Jut23

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Measurement Conditions

DASY system configuration, as far as not given on page 1

| DASY Version | DASY5 | V52.10.4 |
|------------------------------|------------------------|-----------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | ELI6 Flat Phantom | Shell thickness: 2 ± 0.2 mm |
| Distance Dipole Center - TSL | 15 mm | with Spacer |
| Zoom Scan Resolution | dx, dy , $dz = 5 mm$ | |
| Frequency | 450 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 43.5 | 0.87 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 44.5 ± 6 % | 0.88 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | *** |

SAR result with Head TSL

| SAR averaged over 1 cm3 (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 1.14 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 4.54 W/kg ± 18.1 % (k=2) |

| SAR averaged over 10 cm3 (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 0.754 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 3.00 W/kg ± 17.6 % (k=2) |



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 59.3 Ω + 1.5 jΩ | |
|--------------------------------------|-----------------|--|
| Return Loss | - 21.2 dB | |

General Antenna Parameters and Design

| Electrical Delay (one direction) 1.350 ns | |
|---|--|
|---|--|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| Manufactured by | SPEAG |
|-----------------|-------|

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DASY5 Validation Report for Head TSL

Date: 11.07.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 450 MHz; Type: D450V2.5; Serial: D450V2.5 - SN:1007

Communication System: UID 0 - CW; Frequency: 450 MHz

Medium parameters used: f = 450 MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(10.64, 10.64, 10.64) @ 450 MHz; Calibrated; 06.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 27.01.2023
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.69 V/m; Power Drift = 0.00 dB

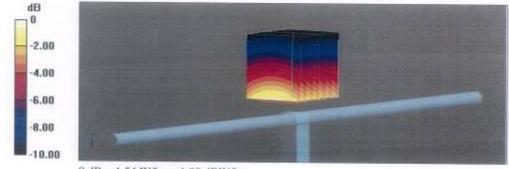
Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.754 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 1.54 W/kg



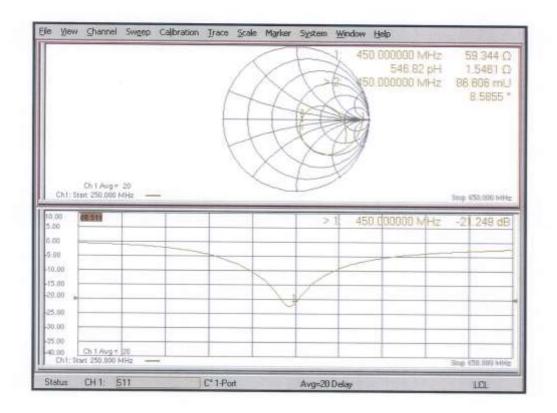
0 dB = 1.54 W/kg = 1.88 dBW/kg

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Impedance Measurement Plot for Head TSL



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Certification of Calibration

Object D450V2.5 - SN:1007

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date Jul.11, 2025

Description SAR Validation Dipole at 450 MHz

Note: Calibrated Before Testing. Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. signal generator) to determine the losses of the measurement path.

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Dipole Calibration Extension

Per HDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

- The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

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