

Variant SAR Test Report

Report No. : SF200428C03I

Applicant : DENSO WAVE INCORPORATED

Address : 1 Yoshiike Kusagi Agui-cho,Chita-gun Aichi 470-2297, Japan

Product : 2D Code Handy Terminal

FCC ID : PZWBHTM80QW

Brand : DENSO

Model No. : BHT-M80-QW

Standards : FCC 47 CFR Part 2 (2.1093), IEEE C95.1:1992, IEEE Std 1528:2013

KDB 865664 D01 v01r04, KDB 865664 D02 v01r02

KDB 248227 D01 v02r02, KDB 447498 D01 v06, KDB 648474 D04 v01r03

Sample Received Date : Feb. 05, 2021

Date of Testing : Mar. 18, 2021 ~ Mar. 20, 2021

Lab Address : No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location : No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City, Taiwan

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch–Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

This report is issued as a supplementary report to BV CPS report no.: SF200428C03E. The differences compared with original report is adding battery 3 and battery 4. The worst cases of original report was verified.

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FCC Accredited No.: TW0003

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Release Control Record

| Report No. | Reason for Change | Date Issued |
|--------------|-------------------|---------------|
| SF200428C03I | Initial release | Mar. 30, 2021 |
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1. Summary of Maximum SAR Value

| Equipment Class | Mode | Highest SAR-1g Head (W/kg) | Highest SAR-1g Body-worn Tested at 15 mm (W/kg) | Highest SAR-10g Product Specific Tested at 0 mm (W/kg) |
|--------------------|-----------------|----------------------------------|--|---|
| DTS | 2.4G WLAN | 0.54 | 0.09 | 1.19 |
| | 5.2G WLAN | 0.79 | 0.29 | 1.16 |
| NII | 5.6G WLAN | <mark>1.16</mark> | 0.62 | <mark>1.63</mark> |
| | 5.8G WLAN | 0.48 | 0.30 | 0.61 |
| DSS | Bluetooth / EDR | 0.00 | 0.00 | 0.00 |
| DTS | Bluetooth / LE | N/A | N/A | N/A |

Note:

1. The SAR criteria (Head & Body: SAR-1g1.6 W/kg, and Extremity: SAR-10g 4.0 W/kg) for general population/uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

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2. <u>Description of Equipment Under Test</u>

| EUT Type | 2D Code Handy Terminal |
|---|--|
| FCC ID | PZWBHTM80QW |
| Brand Name | DENSO |
| Model Name | BHT-M80-QW |
| Tx Frequency Bands (Unit: MHz) | WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720,5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56 |
| Uplink Modulations | 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, π/4-DQPSK, 8-DPSK NFC : ASK |
| Maximum Tune-up Conducted Power (Unit: dBm) | Please refer to section 4.6.1 of this report |
| Antenna Type | PIFA Antenna Ant 0: Peak Antenna Gain : 1.36 dBi for 2.4GHz, 3.45 dBi for 5GHz Ant 1: Peak Antenna Gain : 1.47 dBi for 2.4GHz, 3.80 dBi for 5GHz |
| EUT Stage | Engineering Sample |

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

List of Accessory:

| LIST OF ACCUSS | , - | |
|----------------|--------------|---------------------------|
| | Brand Name | DENSO |
| Dattem, 1 | Model Name | BT1 |
| Battery 1 | Power Rating | 3.85Vdc, 4020mAh, 15.47Wh |
| | Туре | Li-ion Li-ion |
| | Brand Name | DENSO |
| Dattam, 2 | Model Name | BT1S |
| Battery 2 | Power Rating | 3.85Vdc, 2900mAh, 11.16Wh |
| | Туре | Li-ion |
| | Brand Name | DENSO |
| Pottom, 2 | Model Name | BT1L |
| Battery 3 | Power Rating | 3.85Vdc, 5800mAh, 22.33Wh |
| | Туре | Li-ion |
| | Brand Name | DENSO |
| Pottom/ 4 | Model Name | BT1S-W |
| Battery 4 | Power Rating | 3.85Vdc, 2900mAh, 11.16Wh |
| | Туре | Li-ion Li-ion |

Report Issue History Record:

| Issue No. | Description | Date Issued |
|--------------|-----------------------------|---------------|
| SF200428C03E | Initial release | Nov. 02, 2020 |
| SF200428C03I | Add battery 3 and battery 4 | Mar. 30, 2021 |

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3. SAR Measurement System

3.1 <u>Definition of Specific Absorption Rate (SAR)</u>

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SPEAG DASY6 System

DASY6 system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY6 software defined. The DASY6 software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion form the optical into digital electric signal of the DAE and transfers data to the PC.

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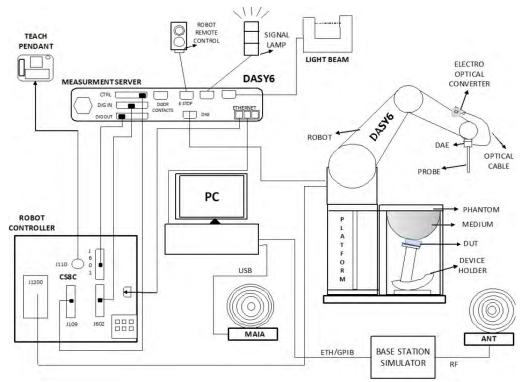


Fig-3.1 SPEAG DASY6 System Setup

3.2.1 Robot

The DASY6 systems use the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version of CS8c from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ±0.035 mm)
- High reliability (industrial design)
- · Jerk-free straight movements
- · Low ELF interference (the closed metallic construction shields against motor control fields)



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3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

| Model | EX3DV4 | |
|---------------|--|--|
| Construction | Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE). | |
| Frequency | 4 MHz to 10 GHz Linearity: ± 0.2 dB | |
| Directivity | ± 0.1 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis) | |
| Dynamic Range | 10 μW/g to 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g) | |
| Dimensions | Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm | |

3.2.3 Data Acquisition Electronics (DAE)

| Model | DAE3, DAE4 | |
|----------------------|---|-------------|
| Construction | Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop. | |
| Measurement Range | -100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV) | Toler Toler |
| Input Offset Voltage | < 5µV (with auto zero) | |
| Input Bias Current | < 50 fA | |
| Dimensions | 60 x 60 x 68 mm | |

3.2.4 Phantoms

| Model | SAM-Twin Phantom | |
|-----------------|--|--|
| Construction | The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE Std 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as bodymounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot. | |
| Material | Vinylester, fiberglass reinforced (VE-GF) | |
| Shell Thickness | 2 ± 0.2 mm (6 ± 0.2 mm at ear point) | |
| Dimensions | Length: 1000 mm Width: 500 mm Height: adjustable feet | |
| Filling Volume | approx. 25 liters | |

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| Model | ELI | |
|-----------------|---|--|
| Construction | The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices. ELI is fully compatible with the IEC 62209-2 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 dosimetric probes and dipoles. | |
| Material | Vinylester, fiberglass reinforced (VE-GF) | |
| Shell Thickness | 2.0 ± 0.2 mm (bottom plate) | |
| Dimensions | Major axis: 600 mm Minor axis: 400 mm | |
| Filling Volume | approx. 30 liters | |

3.2.5 Device Holder

| Model | MD4HHTV5 - Mounting Device for Hand-Held Transmitters | *** |
|--------------|--|-----|
| Construction | In combination with the Twin SAM or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). | |
| Material | Polyoxymethylene (POM) | |

| Model | MDA4WTV5 - Mounting Device Adaptor for Ultra Wide Transmitters | Back. |
|--------------|--|-------|
| Construction | An upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm. | |
| Material | Polyoxymethylene (POM) | |

| Model | MDA4SPV6 - Mounting Device Adaptor for Smart Phones | |
|--------------|--|--|
| Construction | The solid low-density MDA4SPV6 adaptor assuring no impact on the DUT radiation performance and is conform with any DUT design and shape. | |
| Material | ROHACELL | |

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| Model | MD4LAPV5 - Mounting Device for Laptops and other Body- Worn Transmitters | |
|--------------|--|---------|
| Construction | In combination with the Twin SAM or ELI phantoms, the Mounting Device (Body-Worn) enables testing of transmitter devices according to IEC 62209-2 specifications. The device holder can be locked for positioning at a flat phantom section. | 77 10-4 |
| Material | Polyoxymethylene (POM), PET-G, Foam | |

3.2.6 System Validation Dipoles

| Model | D-Serial | |
|------------------|--|--|
| Construction | Symmetrical dipole with I/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions. | |
| Frequency | 750 MHz to 5800 MHz | |
| Return Loss | > 20 dB | |
| Power Capability | > 100 W (f < 1GHz), > 40 W (f > 1GHz) | |

3.2.7 Power Source

| Model | Powersource1 | |
|--------------------------|---|-------------|
| Signal Type | Continuous Wave | |
| Operating Frequencies | 600 MHz to 5850 MHz | JIRCE1 |
| Output Power | -5.0 dBm to +17.0 dBm | POWERSOURCE |
| Power Supply | 5V DC, via USB jack | 1.0 |
| Power Consumption | <3 W | |
| Applications | System performance check and validation with a CW signal. | |

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3.2.8 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10 % are listed in Table-3.1.

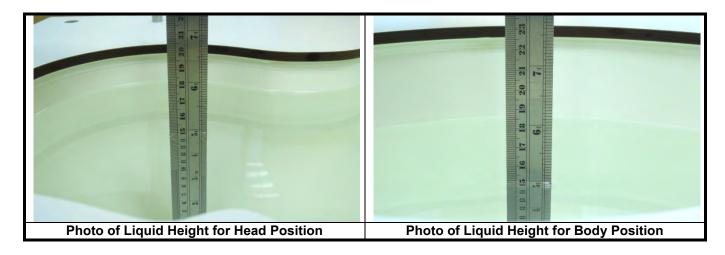


Table-3.1 Targets of Tissue Simulating Liquid

| F | | To a contract of the contract | | D (|
|-----------|--------------|---|--------------|-------------|
| Frequency | Target | Range of | Target | Range of |
| (MHz) | Permittivity | ±10 % | Conductivity | ±10 % |
| 450 | 43.5 | 39.2 ~ 47.9 | 0.87 | 0.78 ~ 0.96 |
| 750 | 41.9 | 37.7 ~ 46.1 | 0.89 | 0.80 ~ 0.98 |
| 835 | 41.5 | 37.4 ~ 45.7 | 0.90 | 0.81 ~ 0.99 |
| 900 | 41.5 | 37.4 ~ 45.7 | 0.97 | 0.87 ~ 1.07 |
| 1450 | 40.5 | 36.5 ~ 44.6 | 1.20 | 1.08 ~ 1.32 |
| 1500 | 40.4 | 36.4 ~ 44.4 | 1.23 | 1.11 ~ 1.35 |
| 1640 | 40.2 | 36.2 ~ 44.2 | 1.31 | 1.18 ~ 1.44 |
| 1750 | 40.1 | 36.1 ~ 44.1 | 1.37 | 1.23 ~ 1.51 |
| 1800 | 40.0 | 36.0 ~ 44.0 | 1.40 | 1.26 ~ 1.54 |
| 1900 | 40.0 | 36.0 ~ 44.0 | 1.40 | 1.26 ~ 1.54 |
| 2000 | 40.0 | 36.0 ~ 44.0 | 1.40 | 1.26 ~ 1.54 |
| 2100 | 39.8 | 35.8 ~ 43.8 | 1.49 | 1.34 ~ 1.64 |
| 2300 | 39.5 | 35.6 ~ 43.5 | 1.67 | 1.50 ~ 1.84 |
| 2450 | 39.2 | 35.3 ~ 43.1 | 1.80 | 1.62 ~ 1.98 |
| 2600 | 39.0 | 35.1 ~ 42.9 | 1.96 | 1.76 ~ 2.16 |
| 3000 | 38.5 | 34.7 ~ 42.4 | 2.40 | 2.16 ~ 2.64 |
| 3500 | 37.9 | 34.1 ~ 41.7 | 2.91 | 2.62 ~ 3.20 |
| 4000 | 37.4 | 33.7 ~ 41.1 | 3.43 | 3.09 ~ 3.77 |
| 4500 | 36.8 | 33.1 ~ 40.5 | 3.94 | 3.55 ~ 4.33 |
| 5000 | 36.2 | 32.6 ~ 39.8 | 4.45 | 4.01 ~ 4.90 |
| 5200 | 36.0 | 32.4 ~ 39.6 | 4.66 | 4.19 ~ 5.13 |
| 5400 | 35.8 | 32.2 ~ 39.4 | 4.86 | 4.37 ~ 5.35 |
| 5600 | 35.5 | 32.0 ~ 39.1 | 5.07 | 4.56 ~ 5.58 |
| 5800 | 35.3 | 31.8 ~ 38.8 | 5.27 | 4.74 ~ 5.80 |
| 6000 | 35.1 | 31.6 ~ 38.6 | 5.48 | 4.93 ~ 6.03 |

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The dielectric properties of the tissue simulating liquids are defined in IEC 62209-1 and IEC 62209-2. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.

Since the range of ± 10 % of the required target values is used to measure relative permittivity and conductivity, the SAR correction procedure is applied to correct measured SAR for the deviations in permittivity and conductivity. Only positive correction has been used to scale up the measured SAR, and SAR result would not be corrected if the correction Δ SAR has a negative sign.

The following table gives the recipes for tissue simulating liquids.

Table-3.2 Recipes of Tissue Simulating Liquid

| | Table-3.2 Recipes of Tissue Simulating Liquid | | | | | | | | | | | |
|----------------|---|------|-----|------|---------|-----------------|-------|---|--|--|--|--|
| Tissue Type | Bactericide | DGBE | HEC | NaCl | Sucrose | Triton X-100 | Water | Diethylene Glycol Mono- hexylether | | | | |
| H750 | 0.2 | - | 0.2 | 1.5 | 56.0 | - | 42.1 | - | | | | |
| H835 | 0.2 | - | 0.2 | 1.5 | 57.0 | - | 41.1 | - | | | | |
| H900 | 0.2 | - | 0.2 | 1.4 | 58.0 | - | 40.2 | - | | | | |
| H1450 | - | 43.3 | - | 0.6 | - | - | 56.1 | - | | | | |
| H1640 | - | 45.8 | - | 0.5 | - | - | 53.7 | - | | | | |
| H1750 | - | 47.0 | • | 0.4 | - | • | 52.6 | - | | | | |
| H1800 | - | 44.5 | ı | 0.3 | - | ı | 55.2 | - | | | | |
| H1900 | - | 44.5 | • | 0.2 | - | • | 55.3 | - | | | | |
| H2000 | - | 44.5 | • | 0.1 | - | ı | 55.4 | - | | | | |
| H2300 | - | 44.9 | • | 0.1 | - | ı | 55.0 | - | | | | |
| H2450 | - | 45.0 | - | 0.1 | - | ı | 54.9 | - | | | | |
| H2600 | - | 45.1 | - | 0.1 | - | - | 54.8 | - | | | | |
| H3500 | - | 8.0 | - | 0.2 | - | 20.0 | 71.8 | - | | | | |
| H5G | - | - | - | - | - | 17.2 | 65.5 | 17.3 | | | | |

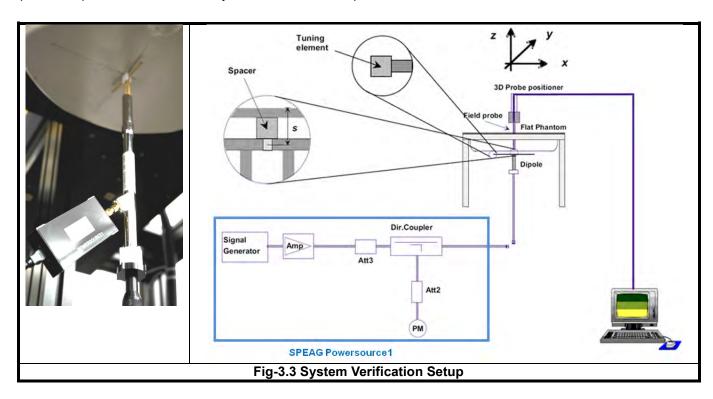
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3.3 SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.



The SPEAG Powersource1 is a portable and very stable RF source providing a continuous wave (CW) signal. It is designed for conducting SAR system checks and SAR system validation of DASY and is compatible with IEC 62209-1, IEC 62209-2 and IEEE Std 1528 standards. The Powersource1 has been calibrated by SPEAG's ISO/IEC 17025-accredited calibration center. When using Powersource1, the setup can be simplified, as shown in Fig-3.3. The signal purity is warranted by design. Since the Powersource1 is calibrated, no additional equipment is needed and the Powersource1 can directly be connected to the SMA connector of the dipole without a cable as all separate components (signal generator, amplifier, coupler and power meter) are built into the unit.

The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The Powersource1 is adjusted for the desired forward power of 17 dBm at the dipole connector and the RF output power would be turned on. After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

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3.4 SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

3.4.1 Area Scan and Zoom Scan Procedure

First area scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an area scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, zoom scan is required. The zoom scan is performed around the highest E-field value to determine the averaged SAR-distribution.

Measure the local SAR at a test point at 1.4 mm of the inner surface of the phantom recommended by SEPAG. The area scan (two-dimensional SAR distribution) is performed cover at least an area larger than the projection of the EUT or antenna. The measurement resolution and spatial resolution for interpolation shall be chosen to allow identification of the local peak locations to within one-half of the linear dimension of the corresponding side of the zoom scan volume. Following table provides the measurement parameters required for the area scan.

| Parameter | $f \leq 3 \mathrm{GHz}$ | $3 \text{ GHz} < f \leq 6 \text{ GHz}$ |
|---|--|--|
| Maximum distance from closest measurement point to phantom surface | 5 ± 1 | δ ln(2)/2 ±0.5 |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location | 30° ±1° | 20° ±1° |
| Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area} | \leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm | 3 – 4 GHz: ≦12 mm 4 – 6 GHz: ≦10 mm |

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks. Additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g. 1 W/kg for 1.6 W/kg, 1 g limit; or 1.26 W/kg for 2 W/kg, 10 g limit).

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The zoom scan (three-dimensional SAR distribution) is performed at the local maxima locations identified in previous area scan procedure. The zoom scan volume must be larger than the required minimum dimensions. When graded grids are used, which only applies in the direction normal to the phantom surface, the initial grid separation closest to the phantom surface and subsequent graded grid increment ratios must satisfy the required protocols. The 1-g SAR averaging volume must be fully contained within the zoom scan measurement volume boundaries; otherwise, the measurement must be repeated by shifting or expanding the zoom scan volume. The similar requirements also apply to 10-g SAR measurements. Following table provides the measurement parameters required for the zoom scan.

| Para | ameter | <i>f</i> ≤ 3 GHz | 3 GHz < <i>f</i> ≤ 6 GHz | |
|---------------------------------------|--|-----------------------------------|--|--|
| Maximum zoom scan spatial reso | olution: Δx _{Zoom} , Δy _{Zoom} | ≦2 GHz: ≦8 mm 2 – 3 GHz: ≦5 mm | 3 – 4 GHz: ≦5 mm 4 – 6 GHz: ≦4 mm | |
| Maximum zoom scan spatial | uniform grid: Δz _{Zoom} (n) | ≦5 mm | 3 – 4 GHz: ≦4 mm 4 – 5 GHz: ≦3 mm 5 – 6 GHz: ≦2 mm | |
| resolution, normal to phantom surface | graded grids: Δz _{Zoom} (1) | ≦4 mm | 3 – 4 GHz: ≦3.0 mm 4 – 5 GHz: ≦2.5 mm 5 – 6 GHz: ≦2.0 mm | |
| | $\Delta z_{Zoom}(n>1)$ | ≦1.5·Δz _{Zoo} | _{om} (n-1) mm | |
| Minimum zoom scan volume (x, y | /, Z) | ≥30 mm | 3 – 4 GHz: ≥28 mm 4 – 5 GHz: ≥25 mm 5 – 6 GHz: ≥22 mm | |

Per IEC 62209-2 AMD1, the successively higher resolution zoom scan is required if the zoom scan measured as defined above complies with both of the following criteria, or if the peak spatial-average SAR is below 0.1 W/kg, no additional measurements are needed:

- (1) The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x and y directions (Δx , Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance zM1.
- (2) The ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the x-y location of the measured maximum SAR value shall be at least 30 %.

If one or both of the above criteria are not met, the zoom scan measurement shall be repeated using a finer resolution. New horizontal and vertical grid steps shall be determined from the measured SAR distribution so that the above criteria are met. Compliance with the above two criteria shall be demonstrated for the new measured zoom scan.

3.4.2 Volume Scan Procedure

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

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3.4.3 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

3.4.4 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

3.4.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

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4. SAR Measurement Evaluation

4.1 EUT Configuration and Setting

<Considerations Related to WLAN for Setup and Testing>

In general, various vendor specific external test software and chipset based internal test modes are typically used for SAR measurement. These chipset based test mode utilities are generally hardware and manufacturer dependent, and often include substantial flexibility to reconfigure or reprogram a device. A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement. The test frequencies established using test mode must correspond to the actual channel frequencies. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. In addition, a periodic transmission duty factor is required for current generation SAR systems to measure SAR correctly. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

According to KDB 248227 D01,this device has installed WLAN engineering testing software which can provide continuous transmitting RF signal. During WLAN SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

Initial Test Configuration

An initial test configuration is determined for OFDM transmission modes in 2.4 GHz and 5 GHz bands according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.

Subsequent Test Configuration

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. When the highest reported SAR for the initial test configuration according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$, SAR is not required for that subsequent test configuration.

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SAR Test Configuration and Channel Selection

When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is using largest channel bandwidth, lowest order modulation, lowest data rate, and lowest order 802.11 mode (i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n). After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following.

- 1) The channel closest to mid-band frequency is selected for SAR measurement.
- 2) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

Test Reduction for U-NII-1 (5.2 GHz) and U-NII-2A (5.3 GHz) Bands

For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following.

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition).
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is $\leq 1.2 \text{ W/kg}$, SAR is not required for the band with lower maximum output power in that test configuration.

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<Considerations Related to Bluetooth for Setup and Testing>

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

The Bluetooth call box has been used during SAR measurement and the EUT was set to DH5 mode at the maximum output power. Its duty factor was calculated as below and the measured SAR for Bluetooth would be scaled to the 100% transmission duty factor to determine compliance.



Time-domain plot for Bluetooth transmission signal

The duty factor of Bluetooth signal has been calculated as following. Duty Factor = Pulse Width / Total Period = 2.892 / 3.768 = 76.75 %

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4.2 EUT Testing Position

This variant report is made for verification. All the worst SAR configurations specified in the original SAR report was repeated and verified to ensure the device remains compliant.

4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Head / Body-worn

| Plot | Frequency (MHz) | Liquid Temp. (℃) | Measured Conductivity (σ) | Measured Permittivity (ε _r) | Target Conductivity (σ) | Target Permittivity (ε _r) | Conductivity Deviation (%) | Permittivity Deviation (%) | Test Date |
|------|--------------------|------------------------|---------------------------------|---|-------------------------------|---|----------------------------|----------------------------|---------------|
| S01 | 2450 | 23.3 | 1.855 | 38.436 | 1.8 | 39.2 | 3.06 | -1.95 | Mar. 19, 2021 |
| S02 | 5250 | 23.4 | 4.564 | 36.045 | 4.71 | 35.9 | -3.10 | 0.40 | Mar. 18, 2021 |
| S03 | 5600 | 23.3 | 5.21 | 36.221 | 5.07 | 35.5 | 2.76 | 2.03 | Mar. 19, 2021 |
| S04 | 5750 | 23.4 | 5.037 | 35.37 | 5.22 | 35.4 | -3.51 | -0.08 | Mar. 18, 2021 |
| S05 | 2450 | 23.3 | 1.855 | 38.436 | 1.8 | 39.2 | 3.06 | -1.95 | Mar. 19, 2021 |
| S06 | 2450 | 23.3 | 1.855 | 38.436 | 1.8 | 39.2 | 3.06 | -1.95 | Mar. 19, 2021 |
| S07 | 5250 | 23.4 | 4.564 | 36.045 | 4.71 | 35.9 | -3.10 | 0.40 | Mar. 18, 2021 |
| S08 | 5600 | 23.3 | 5.21 | 36.221 | 5.07 | 35.5 | 2.76 | 2.03 | Mar. 19, 2021 |
| S09 | 5750 | 23.4 | 5.037 | 35.37 | 5.22 | 35.4 | -3.51 | -0.08 | Mar. 18, 2021 |
| S10 | 2450 | 23.3 | 1.855 | 38.436 | 1.8 | 39.2 | 3.06 | -1.95 | Mar. 19, 2021 |

Product Specific

| Plot | Frequency (MHz) | Liquid Temp. (℃) | Measured Conductivity (σ) | Measured Permittivity (ε _r) | Target Conductivity (σ) | Target Permittivity (ε _r) | Conductivity Deviation (%) | Permittivity Deviation (%) | Test Date |
|------|--------------------|------------------------|---------------------------------|---|-------------------------------|---|----------------------------------|----------------------------------|---------------|
| S11 | 2450 | 23 | 1.883 | 38.286 | 1.8 | 39.2 | 4.61 | -2.33 | Mar. 20, 2021 |
| S12 | 5250 | 23 | 4.795 | 35.269 | 4.71 | 35.9 | 1.80 | -1.76 | Mar. 20, 2021 |
| S13 | 5600 | 23 | 5.178 | 34.66 | 5.07 | 35.5 | 2.13 | -2.37 | Mar. 20, 2021 |
| S14 | 5750 | 23 | 5.34 | 34.366 | 5.22 | 35.4 | 2.30 | -2.92 | Mar. 20, 2021 |
| S15 | 2450 | 23 | 1.883 | 38.286 | 1.8 | 39.2 | 4.61 | -2.33 | Mar. 20, 2021 |

Note:

The dielectric properties of the tissue simulating liquid have been measured within 24 hours before the SAR testing and within ± 10 % of the target values. Liquid temperature during the SAR testing has kept within ± 2 °C.

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4.4 System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.

Head / Body-worn

| | Total | Busha | O-lib | Measured | Measured | Validation for CW | | | Valida | Validation for Modulation | | |
|------|---------------|--------------|----------------------|------------------|--------------------------------|----------------------|--------------------|-------------------|--------------------|---------------------------|------|--|
| Plot | Test Date | Probe S/N | Calibration Point | Conductivity (σ) | Permittivity (ε _r) | Sensitivity Range | Probe Linearity | Probe Isotropy | Modulation Type | Duty Factor | PAR | |
| S01 | Mar. 19, 2021 | 3971 | 2450 | 1.855 | 38.436 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S02 | Mar. 18, 2021 | 3971 | 5250 | 4.564 | 36.045 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S03 | Mar. 19, 2021 | 3971 | 5600 | 5.21 | 36.221 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S04 | Mar. 18, 2021 | 3971 | 5750 | 5.037 | 35.37 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S05 | Mar. 19, 2021 | 3971 | 2450 | 1.855 | 38.436 | Pass | Pass | Pass | N/A | N/A | Pass | |
| S06 | Mar. 19, 2021 | 3971 | 2450 | 1.855 | 38.436 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S07 | Mar. 18, 2021 | 3971 | 5250 | 4.564 | 36.045 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S08 | Mar. 19, 2021 | 3971 | 5600 | 5.21 | 36.221 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S09 | Mar. 18, 2021 | 3971 | 5750 | 5.037 | 35.37 | Pass | Pass | Pass | OFDM | N/A | Pass | |
| S10 | Mar. 19, 2021 | 3971 | 2450 | 1.855 | 38.436 | Pass | Pass | Pass | N/A | N/A | Pass | |

Product Specific

| | - , | | 0 111 11 | Measured | Measured | Validation for CW | | | Validation for Modulation | | |
|------|---------------|--------------|----------------------|------------------|-----------------------------------|----------------------|--------------------|-------------------|---------------------------|-------------|------|
| Plot | Test Date | Probe S/N | Calibration Point | Conductivity (σ) | Permittivity (ε _r) | Sensitivity Range | Probe Linearity | Probe Isotropy | Modulation Type | Duty Factor | PAR |
| S11 | Mar. 20, 2021 | 7472 | 2450 | 1.883 | 38.286 | Pass | Pass | Pass | OFDM | N/A | Pass |
| S12 | Mar. 20, 2021 | 7472 | 5250 | 4.795 | 35.269 | Pass | Pass | Pass | OFDM | N/A | Pass |
| S13 | Mar. 20, 2021 | 7472 | 5600 | 5.178 | 34.66 | Pass | Pass | Pass | OFDM | N/A | Pass |
| S14 | Mar. 20, 2021 | 7472 | 5750 | 5.34 | 34.366 | Pass | Pass | Pass | OFDM | N/A | Pass |
| S15 | Mar. 20, 2021 | 7472 | 2450 | 1.883 | 38.286 | Pass | Pass | Pass | N/A | N/A | Pass |

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4.5 System Verification

The measuring result for system verification is tabulated as below.

Head / Body-worn

| Plot | Test Date | Frequency (MHz) | 1W Target SAR-1g (W/kg) | Measured SAR-1g (W/kg) | Normalized to 1W SAR-1g (W/kg) | Deviation (%) | Dipole S/N | Probe S/N | DAE S/N |
|------|---------------|--------------------|-------------------------------|------------------------------|---|------------------|---------------|--------------|------------|
| S01 | Mar. 19, 2021 | 2450 | 51.60 | 2.44 | 48.80 | -5.43 | 737 | 3971 | 1277 |
| S02 | Mar. 18, 2021 | 5250 | 77.50 | 3.74 | 74.80 | -3.48 | 1145 | 3971 | 1277 |
| S03 | Mar. 19, 2021 | 5600 | 80.30 | 4.04 | 80.80 | 0.62 | 1145 | 3971 | 1277 |
| S04 | Mar. 18, 2021 | 5750 | 77.50 | 3.99 | 79.80 | 2.97 | 1145 | 3971 | 1277 |
| S05 | Mar. 19, 2021 | 2450 | 51.60 | 2.44 | 48.80 | -5.43 | 737 | 3971 | 1277 |
| S06 | Mar. 19, 2021 | 2450 | 51.60 | 2.44 | 48.80 | -5.43 | 737 | 3971 | 1277 |
| S07 | Mar. 18, 2021 | 5250 | 77.50 | 3.74 | 74.80 | -3.48 | 1145 | 3971 | 1277 |
| S08 | Mar. 19, 2021 | 5600 | 80.30 | 4.04 | 80.80 | 0.62 | 1145 | 3971 | 1277 |
| S09 | Mar. 18, 2021 | 5750 | 77.50 | 3.99 | 79.80 | 2.97 | 1145 | 3971 | 1277 |
| S10 | Mar. 19, 2021 | 2450 | 51.60 | 2.44 | 48.80 | -5.43 | 737 | 3971 | 1277 |

Product Specific

| Plot | Test Date | Frequency (MHz) | 1W Target SAR-10g (W/kg) | Measured SAR-10g (W/kg) | Normalized to 1W SAR-10g (W/kg) | Deviation (%) | Dipole S/N | Probe S/N | DAE S/N |
|------|---------------|--------------------|--------------------------------|-------------------------------|--|------------------|---------------|--------------|------------|
| S11 | Mar. 20, 2021 | 2450 | 24.30 | 1.17 | 23.40 | -3.70 | 737 | 7472 | 1585 |
| S12 | Mar. 20, 2021 | 5250 | 22.10 | 1.17 | 23.40 | 5.88 | 1145 | 7472 | 1585 |
| S13 | Mar. 20, 2021 | 5600 | 22.90 | 1.25 | 25.00 | 9.17 | 1145 | 7472 | 1585 |
| S14 | Mar. 20, 2021 | 5750 | 22.10 | 1.08 | 21.60 | -2.26 | 1145 | 7472 | 1585 |
| S15 | Mar. 20, 2021 | 2450 | 24.30 | 1.17 | 23.40 | -3.70 | 737 | 7472 | 1585 |

Note: Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Appendix A of this report.

4.6 Maximum Output Power

4.6.1 Maximum Target Conducted Power

Refer to Appendix E.

4.6.2 Measured Conducted Power Result

Refer to Appendix F.

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4.7 SAR Testing Results

4.7.1 SAR Results for Head Exposure Condition

| Plot No. | Band | Mode | Test Position | Ch. | Ant Status | Battery | Duty Cycle | Crest Factor | Max. Tune-up Power (dBm) | Measure d Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measure d SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|-------------|----------|----------------|------------------|-----|---------------|---------|---------------|-----------------|-----------------------------------|---|-------------------|------------------------|----------------------------------|----------------------------|
| 1 | WLAN2.4G | 802.11b | Right Tilted | 6 | Ant 0+1 | 3 | 99.12 | 1.01 | 23.50 | 23.24 | 1.06 | 0.01 | 0.5 | <mark>0.54</mark> |
| | WLAN2.4G | 802.11b | Right Tilted | 6 | Ant 0+1 | 4 | 99.12 | 1.01 | 23.50 | 23.24 | 1.06 | 0.08 | 0.456 | 0.49 |
| 2 | WLAN5.2G | 802.11n HT40 | Left Cheek | 46 | Ant 0+1 | 3 | 88.41 | 1.13 | 24.00 | 23.68 | 1.08 | -0.06 | 0.649 | 0.79 |
| | WLAN5.2G | 802.11n HT40 | Left Cheek | 46 | Ant 0+1 | 4 | 88.41 | 1.13 | 24.00 | 23.68 | 1.08 | 0.06 | 0.528 | 0.64 |
| 3 | WLAN5.6G | 802.11n HT40 | Left Tilted | 110 | Ant 0 | 3 | 87.98 | 1.14 | 19.80 | 19.72 | 1.02 | -0.12 | 1 | 1.16 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 110 | Ant 0 | 4 | 87.98 | 1.14 | 19.80 | 19.72 | 1.02 | 0.02 | 0.905 | 1.05 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 102 | Ant 0 | 3 | 87.98 | 1.14 | 19.00 | 18.55 | 1.11 | 0.08 | 0.741 | 0.94 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 118 | Ant 0 | 3 | 87.98 | 1.14 | 19.80 | 19.70 | 1.02 | -0.02 | 0.967 | 1.12 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 126 | Ant 0 | 3 | 87.98 | 1.14 | 19.80 | 19.71 | 1.02 | 0.06 | 0.945 | 1.10 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 134 | Ant 0 | 3 | 87.98 | 1.14 | 19.50 | 19.12 | 1.09 | 0.01 | 0.838 | 1.04 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 142 | Ant 0 | 3 | 87.98 | 1.14 | 19.50 | 19.23 | 1.06 | -0.04 | 0.856 | 1.03 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 102 | Ant 0 | 4 | 87.98 | 1.14 | 19.00 | 18.55 | 1.11 | 0.16 | 0.673 | 0.85 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 118 | Ant 0 | 4 | 87.98 | 1.14 | 19.80 | 19.70 | 1.02 | -0.13 | 0.894 | 1.04 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 126 | Ant 0 | 4 | 87.98 | 1.14 | 19.80 | 19.71 | 1.02 | -0.05 | 0.877 | 1.02 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 134 | Ant 0 | 4 | 87.98 | 1.14 | 19.50 | 19.12 | 1.09 | 0.02 | 0.767 | 0.95 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 142 | Ant 0 | 4 | 87.98 | 1.14 | 19.50 | 19.23 | 1.06 | 0.16 | 0.791 | 0.96 |
| | WLAN5.6G | 802.11n HT40 | Left Tilted | 110 | Ant 0 | 3 | 87.98 | 1.14 | 19.80 | 19.72 | 1.02 | 0.05 | 0.975 | 1.13 |
| 4 | WLAN5.8G | 802.11ac VHT80 | Left Cheek | 155 | Ant 0 | 3 | 83.93 | 1.19 | 16.50 | 16.32 | 1.04 | 0.08 | 0.389 | <mark>0.48</mark> |
| | WLAN5.8G | 802.11ac VHT80 | Left Cheek | 155 | Ant 0 | 4 | 83.93 | 1.19 | 16.50 | 16.32 | 1.04 | 0.04 | 0.291 | 0.36 |
| | BT | BD / EDR | Right Cheek | 39 | Ant 0 | 3 | 76.75 | 1.30 | 1.00 | 0.81 | 1.04 | 0 | <0.001 | 0.00 |
| | BT | BD / EDR | Right Cheek | 39 | Ant 0 | 4 | 76.75 | 1.30 | 1.00 | 0.81 | 1.04 | 0 | <0.001 | 0.00 |

Note:

- 1. The SAR testing above was verified based on the worst case of original report.
- 2. The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

4.7.2 SAR Results for Body-worn Exposure Condition (Test Separation Distance is 15 mm)

| Plot No. | Band | Mode | Test Position | Ch. | Ant Status | Battery | Duty Cycle | Crest Factor | Max. Tune-up Power (dBm) | Measure d Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measure d SAR-1g (W/kg) | Scaled SAR-1g (W/kg) |
|-------------|----------|----------------|------------------|-----|---------------|---------|---------------|-----------------|-----------------------------------|---|-------------------|------------------------|----------------------------------|----------------------------|
| 6 | WLAN2.4G | 802.11b | Front Face | 6 | Ant 0+1 | 3 | 99.12 | 1.01 | 23.50 | 23.24 | 1.06 | 0.09 | 0.081 | <mark>0.09</mark> |
| | WLAN2.4G | 802.11b | Front Face | 6 | Ant 0+1 | 4 | 99.12 | 1.01 | 23.50 | 23.24 | 1.06 | -0.05 | 0.064 | 0.07 |
| 7 | WLAN5.2G | 802.11n HT40 | Rear Face | 46 | Ant 0+1 | 3 | 88.41 | 1.13 | 24.00 | 23.68 | 1.08 | -0.04 | 0.238 | 0.29 |
| | WLAN5.2G | 802.11n HT40 | Rear Face | 46 | Ant 0+1 | 4 | 88.41 | 1.13 | 24.00 | 23.68 | 1.08 | 0.08 | 0.191 | 0.23 |
| 8 | WLAN5.6G | 802.11n HT40 | Rear Face | 142 | Ant 1 | 3 | 86.67 | 1.15 | 20.00 | 19.70 | 1.07 | -0.05 | 0.502 | 0.62 |
| | WLAN5.6G | 802.11n HT40 | Rear Face | 142 | Ant 1 | 4 | 86.67 | 1.15 | 20.00 | 19.70 | 1.07 | -0.06 | 0.411 | 0.51 |
| 9 | WLAN5.8G | 802.11ac VHT80 | Rear Face | 155 | Ant 0+1 | 3 | 83.95 | 1.19 | 19.50 | 19.45 | 1.01 | -0.02 | 0.246 | <mark>0.30</mark> |
| | WLAN5.8G | 802.11ac VHT80 | Rear Face | 155 | Ant 0+1 | 4 | 83.95 | 1.19 | 19.50 | 19.45 | 1.01 | 0.01 | 0.196 | 0.24 |
| | BT | BR / EDR | Rear Face | 39 | Ant 0 | 3 | 76.65 | 1.30 | 1.00 | 0.81 | 1.04 | 0 | <0.001 | 0.00 |
| | BT | BR / EDR | Rear Face | 39 | Ant 0 | 4 | 76.65 | 1.30 | 1.00 | 0.81 | 1.04 | 0 | <0.001 | 0.00 |

Note:

- 1. The SAR testing above was verified based on the worst case of original report.
- 2. The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

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4.7.3 SAR Results for Product Specific (Phablet) Exposure Condition (Test Separation Distance is 0 mm)

| Plot No. | Band | Mode | Test Position | Ch. | Ant Status | Battery | Duty Cycle | Crest Factor | Max. Tune-up Power (dBm) | Measure d Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measure d SAR-10g (W/kg) | Scaled SAR-10g (W/kg) |
|-------------|----------|----------------|------------------|-----|---------------|---------|---------------|-----------------|-----------------------------------|---|-------------------|------------------------|-----------------------------------|-----------------------------|
| 11 | WLAN2.4G | 802.11b | Right Side | 6 | Ant 0+1 | 3 | 99.12 | 1.01 | 23.50 | 23.24 | 1.06 | -0.13 | 1.11 | <mark>1.19</mark> |
| | WLAN2.4G | 802.11b | Right Side | 6 | Ant 0+1 | 4 | 99.12 | 1.01 | 23.50 | 23.24 | 1.06 | 0.05 | 0.84 | 0.90 |
| 12 | WLAN5.2G | 802.11n HT40 | Top Side | 46 | Ant 0+1 | 3 | 88.41 | 1.13 | 24.00 | 23.68 | 1.08 | -0.12 | 0.952 | 1.16 |
| | WLAN5.2G | 802.11n HT40 | Top Side | 46 | Ant 0+1 | 4 | 88.41 | 1.13 | 24.00 | 23.68 | 1.08 | -0.06 | 0.79 | 0.96 |
| 13 | WLAN5.6G | 802.11n HT40 | Left Side | 142 | Ant 0 | 3 | 87.98 | 1.14 | 19.50 | 19.23 | 1.06 | -0.04 | 1.35 | 1.63 |
| | WLAN5.6G | 802.11n HT40 | Left Side | 142 | Ant 0 | 4 | 87.98 | 1.14 | 19.50 | 19.23 | 1.06 | 0.08 | 1.28 | 1.55 |
| 14 | WLAN5.8G | 802.11ac VHT80 | Left Side | 155 | Ant 0+1 | 3 | 83.95 | 1.19 | 19.50 | 19.45 | 1.01 | -0.04 | 0.511 | 0.61 |
| | WLAN5.8G | 802.11ac VHT80 | Left Side | 155 | Ant 0+1 | 4 | 83.95 | 1.19 | 19.50 | 19.45 | 1.01 | -0.14 | 0.41 | 0.49 |
| | BT | BR / EDR | Left Side | 39 | Ant 0 | 3 | 76.65 | 1.30 | 1.00 | 0.81 | 1.04 | 0 | <0.001 | 0.00 |
| | BT | BR / EDR | Left Side | 39 | Ant 0 | 4 | 76.65 | 1.30 | 1.00 | 0.81 | 1.04 | 0 | <0.001 | 0.00 |

Note:

- 1. The SAR testing above was verified based on the worst case of original report.
- 2. The "< 0.001" means there is no SAR value or the SAR is too low to be measured.

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4.7.4 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium maybe used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

- 1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
- 2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
- 3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20, or when the original or repeated measurement is >= 1.45 W/kg, perform a second repeated measurement.
- 4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

| Band | Mode | Test Position | Ch. | Original Measured SAR-1g (W/kg) | 1st Repeated SAR-1g (W/kg) | L/S Ratio | 2nd Repeated SAR-1g (W/kg) | L/S Ratio | 3rd Repeated SAR-1g (W/kg) | L/S Ratio |
|-----------|--------------|------------------|-----|--|-------------------------------------|--------------|-------------------------------------|--------------|-------------------------------------|--------------|
| WLAN 5.6G | 802.11n HT40 | Left Tilted | 110 | 1 | 0.975 | 1.03 | N/A | N/A | N/A | N/A |

4.7.5 Simultaneous Multi-band Transmission Evaluation

Since all the verified SAR values are less than the values in original report, the simultaneous transmission evaluation has no effect and the simultaneous transmission SAR is not required.

Test Engineer: Jacob Wu,

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5. Calibration of Test Equipment

| Equipment | Manufacturer | Model | SN | Cal. Date | Cal. Interval |
|------------------------------|--------------|-----------------------|------------|---------------|---------------|
| System Validation Dipole | SPEAG | D2450V2 | 737 | Aug. 13, 2020 | 1 Year |
| System Validation Dipole | SPEAG | D5GHzV2 | 1145 | Nov. 09, 2020 | 1 Year |
| Dosimetric E-Field Probe | SPEAG | EX3DV4 | 3971 | Jan. 27, 2021 | 1 Year |
| Dosimetric E-Field Probe | SPEAG | EX3DV4 | 7472 | Aug. 24, 2020 | 1 Year |
| Data Acquisition Electronics | SPEAG | DAE4 | 1277 | Jan. 19, 2021 | 1 Year |
| Data Acquisition Electronics | SPEAG | DAE4 | 1585 | May. 28, 2020 | 1 Year |
| Spectrum Analyzer | R&S | FSL6 | 102006 | Mar. 26, 2020 | 1 Year |
| Universal Wireless Test Set | Anritsu | MT8870A/MU8 87000A | 6201699387 | Sep. 28, 2020 | 1 Year |
| Thermometer | YFE | YF-160A | 150601220 | May 25, 2020 | 1 Year |
| Dielectric Assessment Kit | SPEAG | DAKS-3.5 | 1092 | May 26, 2020 | 1 Year |
| Powersource1 | SPEAG | SE_UMS_160 BA | 4010 | Aug. 13, 2020 | 1 Year |

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6. Measurement Uncertainty

| Source of Uncertainty | Uncertainty (± %) | Probability Distribution | Divisor | Ci (1g) | Ci (10g) | Standard Uncertainty (± %, 1g) | Standard Uncertainty (± %, 10g) | Vi |
|---|----------------------|-----------------------------|---------|------------|-------------|--------------------------------------|---------------------------------------|--------------|
| Measurement System | | | | | | | | |
| Probe Calibration | 6.0 | Normal | 1 | 1 | 1 | 6.0 | 6.0 | œ |
| Axial Isotropy | 4.7 | Rectangular | √3 | √0.5 | √0.5 | 1.9 | 1.9 | ∞ |
| Hemispherical Isotropy | 9.6 | Rectangular | √3 | √0.5 | √0.5 | 3.9 | 3.9 | ∞ |
| Boundary Effect | 1.0 | Rectangular | √3 | 1 | 1 | 0.6 | 0.6 | œ |
| Linearity | 4.7 | Rectangular | √3 | 1 | 1 | 2.7 | 2.7 | ∞ |
| Detection Limits | 0.25 | Rectangular | √3 | 1 | 1 | 0.14 | 0.14 | ∞ |
| Probe Modulation Response | 4.8 | Rectangular | √3 | 1 | 1 | 2.8 | 2.8 | ∞ |
| Readout Electronics | 0.3 | Normal | 1 | 1 | 1 | 0.3 | 0.3 | ∞ |
| Response Time | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | 8 |
| Integration Time | 1.7 | Rectangular | √3 | 1 | 1 | 1.0 | 1.0 | 8 |
| RF Ambient Conditions - Noise | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | 8 |
| RF Ambient Conditions – Reflections | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Probe Positioner Mechanical Tolerance | 0.02 | Rectangular | √3 | 1 | 1 | 0.01 | 0.01 | ∞ |
| Probe Positioning with Respect to Phantom | 0.4 | Rectangular | √3 | 1 | 1 | 0.2 | 0.2 | 8 |
| Post-processing | 2.0 | Rectangular | √3 | 1 | 1 | 1.2 | 1.2 | ∞ |
| Test Sample Related | | | | | | | | |
| Test Sample Positioning | 2.82 / 1.60 | Normal | 1 | 1 | 1 | 2.8 | 1.6 | 35 |
| Device Holder Uncertainty | 2.55 / 2.76 | Normal | 1 | 1 | 1 | 2.6 | 2.8 | 7 |
| Power Drift of Measurement | 5.0 | Rectangular | √3 | 1 | 1 | 2.9 | 2.9 | œ |
| PowerScaling | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | _∞ |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty (Shape and Thickness | | | 1- | | | | | |
| Tolerances) | 5.7 | Rectangular | √3 | 1 | 1 | 3.3 | 3.3 | ∞ |
| Liquid Conductivity (Temperature Uncertainty) | 2.58 | Rectangular | √3 | 0.78 | 0.71 | 1.2 | 1.1 | ∞ |
| Liquid Conductivity (Measured) | 2.95 | Normal | 1 | 0.78 | 0.71 | 2.3 | 2.1 | 61 |
| Liquid Permittivity (Temperature Uncertainty) | 1.97 | Rectangular | √3 | 0.23 | 0.26 | 0.3 | 0.3 | ∞ |
| Liquid Permittivity (Measured) | 3.04 | Normal | 1 | 0.23 | 0.26 | 0.7 | 0.8 | 47 |
| Combined Standard Uncertainty | | | | | | ± 10.9 % | ± 10.7 % | |
| Expanded Uncertainty (K=2) | | | | | | ± 21.8 % | ± 21.4 % | |

Head SAR Uncertainty Budget for Frequency Range of 300 MHz to 3 GHz

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| Source of Uncertainty | Uncertainty (± %) | Probability Distribution | Divisor | Ci (1g) | Ci (10g) | Standard Uncertainty (± %, 1g) | Standard Uncertainty (± %, 10g) | Vi |
|--|----------------------|-----------------------------|---------|------------|-------------|--------------------------------|---------------------------------|----|
| Measurement System | | | | | | | | |
| Probe Calibration | 6.55 | Normal | 1 | 1 | 1 | 6.55 | 6.55 | 8 |
| Axial Isotropy | 4.7 | Rectangular | √3 | 0.7 | 0.7 | 1.9 | 1.9 | 8 |
| Hemispherical Isotropy | 9.6 | Rectangular | √3 | 0.7 | 0.7 | 3.9 | 3.9 | ∞ |
| Boundary Effect | 2.0 | Rectangular | √3 | 1 | 1 | 1.2 | 1.2 | 8 |
| Linearity | 4.7 | Rectangular | √3 | 1 | 1 | 2.7 | 2.7 | 8 |
| Detection Limits | 0.25 | Rectangular | √3 | 1 | 1 | 0.14 | 0.14 | 8 |
| Probe Modulation Response | 4.8 | Rectangular | √3 | 1 | 1 | 2.8 | 2.8 | 8 |
| Readout Electronics | 0.3 | Normal | 1 | 1 | 1 | 0.3 | 0.3 | 8 |
| Response Time | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | 8 |
| Integration Time | 1.7 | Rectangular | √3 | 1 | 1 | 1.0 | 1.0 | 8 |
| RF Ambient Conditions – Noise | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | ∞ |
| RF Ambient Conditions – Reflections | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | 8 |
| Probe Positioner Mechanical Tolerance | 0.04 | Rectangular | √3 | 1 | 1 | 0.02 | 0.02 | 8 |
| Probe Positioning with Respect to Phantom | 0.8 | Rectangular | √3 | 1 | 1 | 0.5 | 0.5 | ∞ |
| Post-processing | 4.0 | Rectangular | √3 | 1 | 1 | 2.3 | 2.3 | 8 |
| Test Sample Related | | | | | | | | |
| Test Sample Positioning | 2.82 / 1.60 | Normal | 1 | 1 | 1 | 2.8 | 1.6 | 35 |
| Device Holder Uncertainty | 2.55 / 2.76 | Normal | 1 | 1 | 1 | 2.6 | 2.8 | 7 |
| Power Drift of Measurement | 5.0 | Rectangular | √3 | 1 | 1 | 2.9 | 2.9 | ∞ |
| PowerScaling | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | ∞ |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty (Shape and Thickness Tolerances) | 6.2 | Rectangular | √3 | 1 | 1 | 3.6 | 3.6 | ∞ |
| Liquid Conductivity (Temperature Uncertainty) | 2.58 | Rectangular | √3 | 0.78 | 0.71 | 1.2 | 1.1 | ∞ |
| Liquid Conductivity (Measured) | 2.95 | Normal | 1 | 0.78 | 0.71 | 2.3 | 2.1 | 61 |
| Liquid Permittivity (Temperature Uncertainty) | 1.97 | Rectangular | √3 | 0.23 | 0.26 | 0.3 | 0.3 | ∞ |
| Liquid Permittivity (Measured) | 3.04 | Normal | 1 | 0.23 | 0.26 | 0.7 | 0.8 | 47 |
| Combined Standard Uncertainty | | | | | | ± 11.6 % | ± 11.3 % | |
| Expanded Uncertainty (K=2) | | | | | | ± 23.2 % | ± 22.6 % | |

Head SAR Uncertainty Budget for Frequency Range of 3 GHz to 6 GHz

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| Source of Uncertainty | Uncertainty (± %) | Probability Distribution | Divisor | Ci (1g) | Ci (10g) | Standard Uncertainty (± %, 1g) | Standard Uncertainty (± %, 10g) | Vi |
|--|----------------------|-----------------------------|---------|------------|-------------|--------------------------------------|---------------------------------|----|
| Measurement System | | | | | | | | |
| Probe Calibration | 6.0 | Normal | 1 | 1 | 1 | 6.0 | 6.0 | 8 |
| Axial Isotropy | 4.7 | Rectangular | √3 | √0.5 | √0.5 | 1.9 | 1.9 | 8 |
| Hemispherical Isotropy | 9.6 | Rectangular | √3 | √0.5 | √0.5 | 3.9 | 3.9 | ∞ |
| Boundary Effect | 1.0 | Rectangular | √3 | 1 | 1 | 0.6 | 0.6 | 8 |
| Linearity | 4.7 | Rectangular | √3 | 1 | 1 | 2.7 | 2.7 | 8 |
| Detection Limits | 0.25 | Rectangular | √3 | 1 | 1 | 0.14 | 0.14 | 8 |
| Probe Modulation Response | 4.8 | Rectangular | √3 | 1 | 1 | 2.8 | 2.8 | 8 |
| Readout Electronics | 0.3 | Normal | 1 | 1 | 1 | 0.3 | 0.3 | 8 |
| Response Time | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | ∞ |
| Integration Time | 1.7 | Rectangular | √3 | 1 | 1 | 1.0 | 1.0 | 8 |
| RF Ambient Conditions – Noise | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | ∞ |
| RF Ambient Conditions – Reflections | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | 8 |
| Probe Positioner Mechanical Tolerance | 0.02 | Rectangular | √3 | 1 | 1 | 0.01 | 0.01 | 8 |
| Probe Positioning with Respect to Phantom | 0.4 | Rectangular | √3 | 1 | 1 | 0.2 | 0.2 | ∞ |
| Post-processing | 2.0 | Rectangular | √3 | 1 | 1 | 1.2 | 1.2 | ∞ |
| Test Sample Related | | | | | | | | |
| Test Sample Positioning | 3.68 / 1.73 | Normal | 1 | 1 | 1 | 3.7 | 1.7 | 29 |
| Device Holder Uncertainty | 2.55 / 2.76 | Normal | 1 | 1 | 1 | 2.6 | 2.8 | 7 |
| Power Drift of Measurement | 5.0 | Rectangular | √3 | 1 | 1 | 2.9 | 2.9 | ∞ |
| PowerScaling | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | ∞ |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty (Shape and Thickness Tolerances) | 7.2 | Rectangular | √3 | 1 | 1 | 4.2 | 4.2 | ∞ |
| Liquid Conductivity (Temperature Uncertainty) | 2.58 | Rectangular | √3 | 0.78 | 0.71 | 1.2 | 1.1 | ∞ |
| Liquid Conductivity (Measured) | 2.95 | Normal | 1 | 0.78 | 0.71 | 2.3 | 2.1 | 61 |
| Liquid Permittivity (Temperature Uncertainty) | 1.97 | Rectangular | √3 | 0.23 | 0.26 | 0.3 | 0.3 | ∞ |
| Liquid Permittivity (Measured) | 3.04 | Normal | 1 | 0.23 | 0.26 | 0.7 | 0.8 | 47 |
| Combined Standard Uncertainty | | | | | | ± 11.5 % | ± 11.0 % | |
| Expanded Uncertainty (K=2) | | | | | | ± 23.0 % | ± 22.0 % | 1 |

Body SAR Uncertainty Budget for Frequency Range of 300 MHz to 3 GHz

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| Source of Uncertainty | Uncertainty (± %) | Probability Distribution | Divisor | Ci (1g) | Ci (10g) | Standard Uncertainty (± %, 1g) | Standard Uncertainty (± %, 10g) | Vi |
|--|-------------------|-----------------------------|---------|------------|-------------|--------------------------------------|---------------------------------------|----|
| Measurement System | | | | | | | | |
| Probe Calibration | 6.55 | Normal | 1 | 1 | 1 | 6.55 | 6.55 | 8 |
| Axial Isotropy | 4.7 | Rectangular | √3 | 0.7 | 0.7 | 1.9 | 1.9 | 8 |
| Hemispherical Isotropy | 9.6 | Rectangular | √3 | 0.7 | 0.7 | 3.9 | 3.9 | ∞ |
| Boundary Effect | 2.0 | Rectangular | √3 | 1 | 1 | 1.2 | 1.2 | ∞ |
| Linearity | 4.7 | Rectangular | √3 | 1 | 1 | 2.7 | 2.7 | 8 |
| Detection Limits | 0.25 | Rectangular | √3 | 1 | 1 | 0.14 | 0.14 | ∞ |
| Probe Modulation Response | 4.8 | Rectangular | √3 | 1 | 1 | 2.8 | 2.8 | 8 |
| Readout Electronics | 0.3 | Normal | 1 | 1 | 1 | 0.3 | 0.3 | 8 |
| Response Time | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | 8 |
| Integration Time | 1.7 | Rectangular | √3 | 1 | 1 | 1.0 | 1.0 | 8 |
| RF Ambient Conditions – Noise | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | 8 |
| RF Ambient Conditions – Reflections | 3.0 | Rectangular | √3 | 1 | 1 | 1.7 | 1.7 | 8 |
| Probe Positioner Mechanical Tolerance | 0.04 | Rectangular | √3 | 1 | 1 | 0.02 | 0.02 | 8 |
| Probe Positioning with Respect to Phantom | 0.8 | Rectangular | √3 | 1 | 1 | 0.5 | 0.5 | 8 |
| Post-processing | 4.0 | Rectangular | √3 | 1 | 1 | 2.3 | 2.3 | ∞ |
| Test Sample Related | | | | | | | | |
| Test Sample Positioning | 3.68 / 1.73 | Normal | 1 | 1 | 1 | 3.7 | 1.7 | 29 |
| Device Holder Uncertainty | 2.55 / 2.76 | Normal | 1 | 1 | 1 | 2.6 | 2.8 | 7 |
| Power Drift of Measurement | 5.0 | Rectangular | √3 | 1 | 1 | 2.9 | 2.9 | ∞ |
| PowerScaling | 0.0 | Rectangular | √3 | 1 | 1 | 0.0 | 0.0 | 8 |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty (Shape and Thickness Tolerances) | 7.6 | Rectangular | √3 | 1 | 1 | 4.4 | 4.4 | œ |
| Liquid Conductivity (Temperature Uncertainty) | 2.58 | Rectangular | √3 | 0.78 | 0.71 | 1.2 | 1.1 | ∞ |
| Liquid Conductivity (Measured) | 2.95 | Normal | 1 | 0.78 | 0.71 | 2.3 | 2.1 | 61 |
| Liquid Permittivity (Temperature Uncertainty) | 1.97 | Rectangular | √3 | 0.23 | 0.26 | 0.3 | 0.3 | ∞ |
| Liquid Permittivity (Measured) | 3.04 | Normal | 1 | 0.23 | 0.26 | 0.7 | 0.8 | 47 |
| Combined Standard Uncertainty | | | | | | ± 12.1 % | ± 11.6 % | |
| Expanded Uncertainty (K=2) | | | | | | ± 24.2 % | ± 23.2 % | |

Body SAR Uncertainty Budget for Frequency Range of 3 GHz to 6 GHz

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7. Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: https://ee.bureauveritas.com.tw/BVInternet/Default

The road map of all our labs can be found in our web site also.

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

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S01 System Check_H2450_210319

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1 0319 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.855 \text{ S/m}$;

Date: 2021/03/19

 $\varepsilon_r = 38.436$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.3 °C

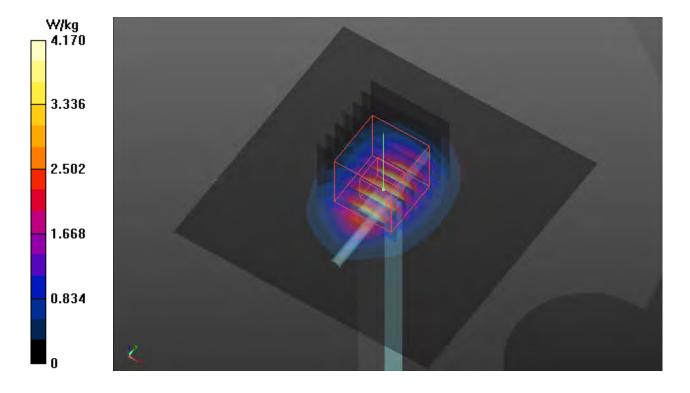
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(7.87, 7.87, 7.87) @ 2450 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.17 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 47.96 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 5.19 W/kg SAR(1g) = 2.44 W/kg: SAR(10g) = 1.15 W/kg (SAR corrected for target medium)

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.17 W/kg



S02 System Check_H5250_210318

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1 0318 Medium parameters used (interpolated): f = 5250 MHz; $\sigma = 4.564$ S/m;

Date: 2021/03/18

 $\varepsilon_r = 36.045$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6 °C; Liquid Temperature: 23.4 °C

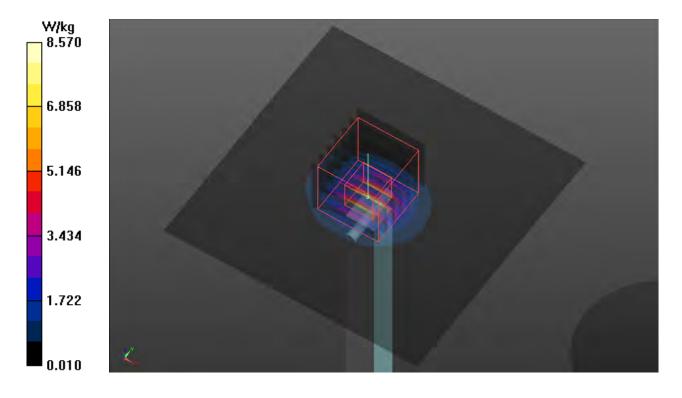
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(5.2, 5.2, 5.2) @ 5250 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 8.57 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 48.65 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)Maximum value of SAR (measured) = 9.05 W/kg



S03 System Check_H5600_210319

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0319 Medium parameters used: f = 5600 MHz; $\sigma = 5.21$ S/m; $\varepsilon_r = 36.221$; $\rho =$

Date: 2021/03/19

 1000 kg/m^3

Ambient Temperature : 23.7 °C; Liquid Temperature : 23.3 °C

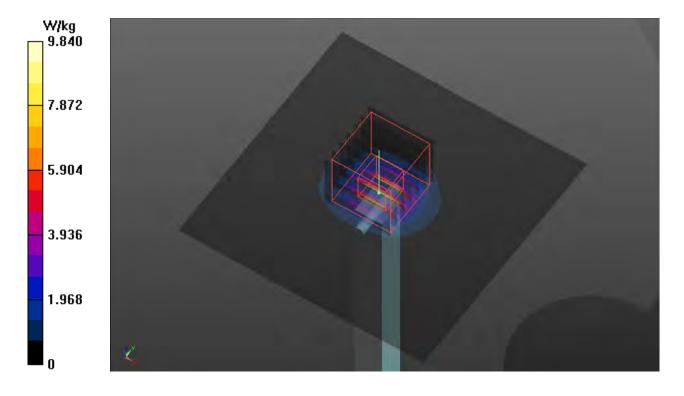
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.9, 4.9, 4.9) @ 5600 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 9.84 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 47.84 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 4.04 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 10.4 W/kg



S04 System Check_H5750_210318

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: H34T60N1 0318 Medium parameters used: f = 5750 MHz; $\sigma = 5.037$ S/m; $\varepsilon_r = 35.37$; $\rho =$

Date: 2021/03/18

 1000 kg/m^3

Ambient Temperature : 23.6 °C; Liquid Temperature : 23.4 °C

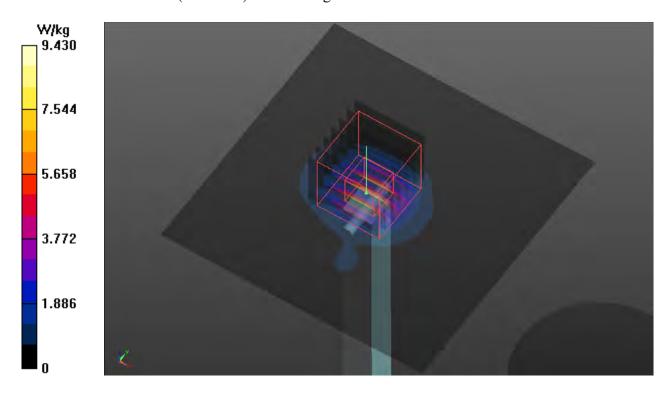
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.95, 4.95, 4.95) @ 5750 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 9.43 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 45.52 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.25 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 10.2 W/kg



S05 System Check_H2450_210319

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1 0319 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.855 \text{ S/m}$;

Date: 2021/03/19

 $\varepsilon_r = 38.436$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.3 °C

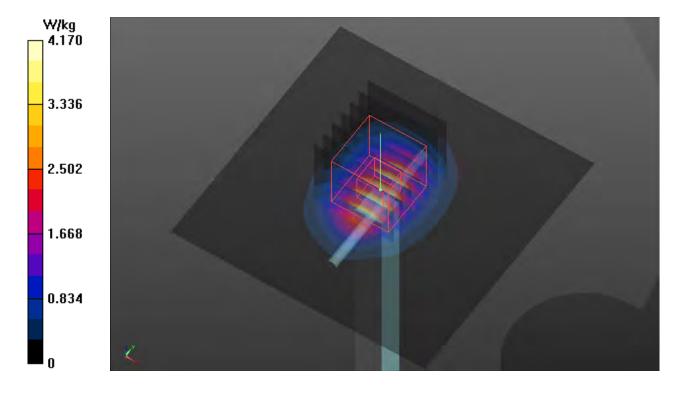
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(7.87, 7.87, 7.87) @ 2450 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.17 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 47.96 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 5.19 W/kg
SAP(1 g) = 2.44 W/kg; SAP(10 g) = 1.15 W/kg (SAP corrected for target medium)

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.17 W/kg



S06 System Check_H2450_210319

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1 0319 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.855 \text{ S/m}$;

Date: 2021/03/19

 $\varepsilon_r = 38.436$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.3 °C

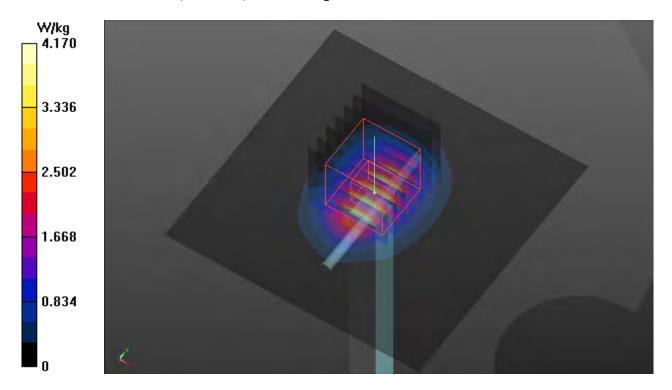
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(7.87, 7.87, 7.87) @ 2450 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.17 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 47.96 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 5.19 W/kg SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.17 W/kg



S07 System Check_H5250_210318

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1 0318 Medium parameters used (interpolated): f = 5250 MHz; $\sigma = 4.564$ S/m;

Date: 2021/03/18

 $\varepsilon_r = 36.045$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6 °C; Liquid Temperature: 23.4 °C

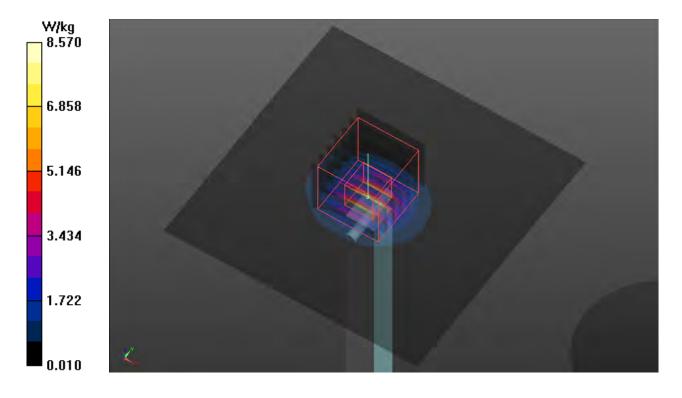
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(5.2, 5.2, 5.2) @ 5250 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 8.57 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 48.65 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)Maximum value of SAR (measured) = 9.05 W/kg



S08 System Check_H5600_210319

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H34T60N1 0319 Medium parameters used: f = 5600 MHz; $\sigma = 5.21$ S/m; $\varepsilon_r = 36.221$; $\rho =$

Date: 2021/03/19

 1000 kg/m^3

Ambient Temperature : 23.7 °C; Liquid Temperature : 23.3 °C

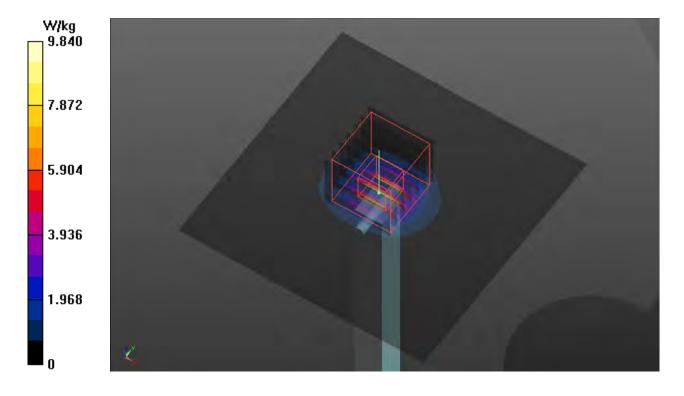
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.9, 4.9, 4.9) @ 5600 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 9.84 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 47.84 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 4.04 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 10.4 W/kg



S09 System Check_H5750_210318

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: H34T60N1 0318 Medium parameters used: f = 5750 MHz; $\sigma = 5.037$ S/m; $\varepsilon_r = 35.37$; $\rho =$

Date: 2021/03/18

 1000 kg/m^3

Ambient Temperature: 23.6 °C; Liquid Temperature: 23.4 °C

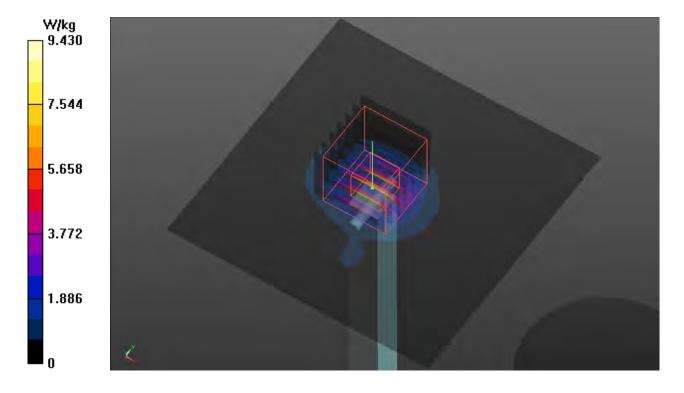
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.95, 4.95, 4.95) @ 5750 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 9.43 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 45.52 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 16.9 W/kg SAP(1g) = 3.90 W/kg: SAP(10g) = 1.25 W/kg (SAP corrected for target medium)

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.25 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 10.2 W/kg



S10 System Check_H2450_210319

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1 0319 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.855 \text{ S/m}$;

Date: 2021/03/19

 $\varepsilon_r = 38.436$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.3 °C

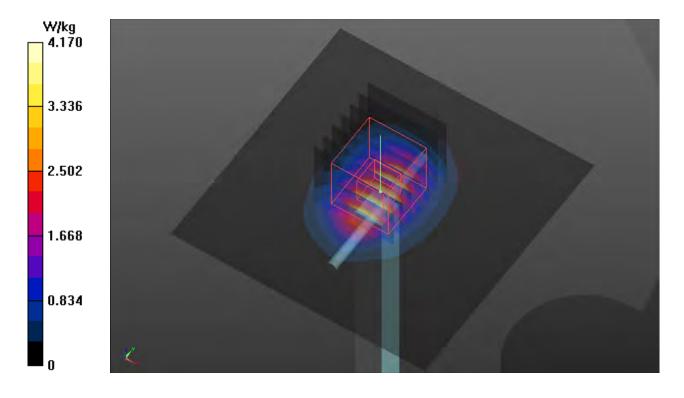
DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(7.87, 7.87, 7.87) @ 2450 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.17 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 47.96 V/m; Power Drift = 0.10 dB Peak SAR (extrapolated) = 5.19 W/kg SAR(1g) = 2.44 W/kg: SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.17 W/kg



S11 System Check_H2450_210320

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0320 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.883$ S/m; ϵ_r

Date: 2021/03/20

= 38.286; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

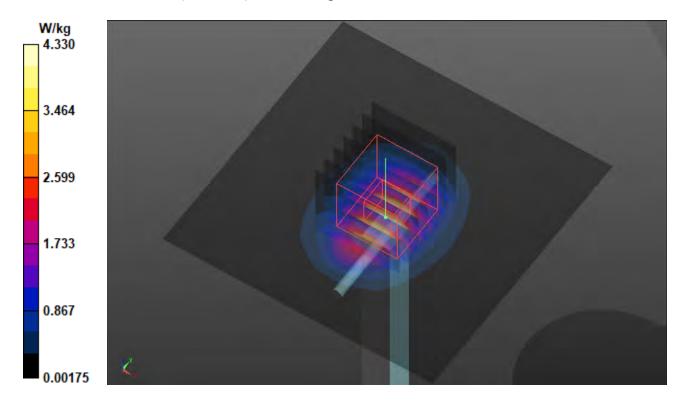
DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(7.69, 7.69, 7.69) @ 2450 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom 1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.33 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 47.24 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 5.24 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.17 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.20 W/kg



S12 System Check_H5250_210320

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0320 Medium parameters used: f = 5250 MHz; $\sigma = 4.795$ S/m; $\epsilon_r = 35.269$; $\rho = 1000$ kg/m³

Date: 2021/03/20

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

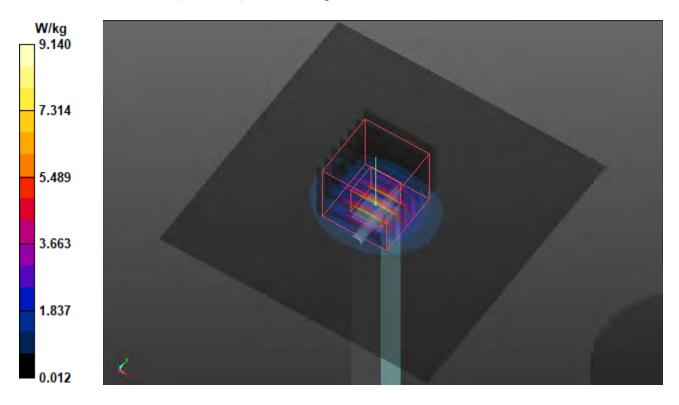
DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(5.72, 5.72, 5.72) @ 5250 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom 1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 9.14 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 48.80 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 3.97 W/kg; SAR(10 g) = 1.17 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 9.63 W/kg



S13 System Check H5600 210320

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0320 Medium parameters used: f = 5600 MHz; $\sigma = 5.178$ S/m; $\epsilon_r = 34.66$; $\rho = 1000$ kg/m³

Date: 2021/03/20

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

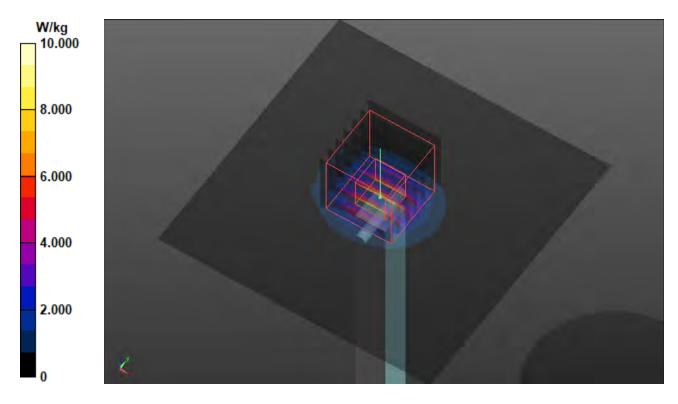
DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(5.04, 5.04, 5.04) @ 5600 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom 1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 10.0 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 48.21 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 4.21 W/kg; SAR(10 g) = 1.25 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 10.7 W/kg



S14 System Check_H5750_210320

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1145

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0320 Medium parameters used: f = 5750 MHz; $\sigma = 5.34$ S/m; $\epsilon_r = 34.366$; $\rho = 1000$ kg/m³

Date: 2021/03/20

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

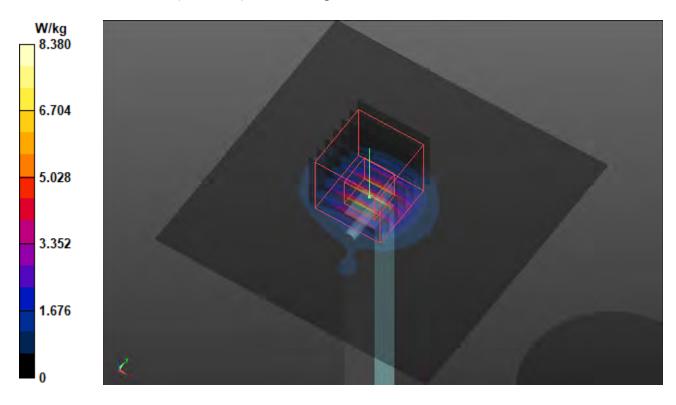
DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(5.25, 5.25, 5.25) @ 5750 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom 1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 8.38 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 41.44 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 15.0 W/kg

SAR(1 g) = 3.51 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 9.03 W/kg



S15 System Check H2450 210320

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0320 Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.883$ S/m; ϵ_r

Date: 2021/03/20

= 38.286; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

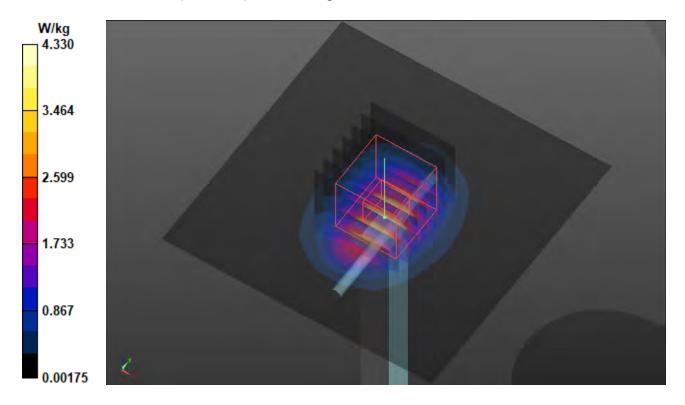
DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(7.69, 7.69, 7.69) @ 2450 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom 1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 4.33 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 47.24 V/m; Power Drift = -0.10 dB Peak SAR (extrapolated) = 5.24 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.17 W/kg (SAR corrected for target medium) Maximum value of SAR (measured) = 4.20 W/kg





Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

Report Format Version 5.0.0 Issued Date : Mar. 30, 2021

Report No. : SF200428C03I Reference No. : 210205C01

P01 WLAN2.4G 802.11b Right Tilted Ch6 Ant0+1 Battery3

DUT: 210204C02

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium: H19T27N1_0319 Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 1.842$ S/m;

Date: 2021/03/19

 $\varepsilon_{\rm r} = 38.482; \, \rho = 1000 \, {\rm kg/m}^3$

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(7.87, 7.87, 7.87) @ 2437 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.940 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.85 V/m; Power Drift = 0.01 dB

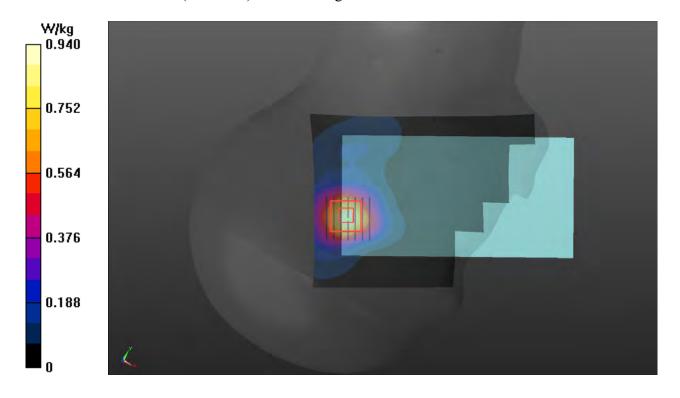
Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.321 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 15.6 mm

Ratio of SAR at M2 to SAR at M1 = 60.7%

Maximum value of SAR (measured) = 0.813 W/kg



P02 WLAN5.2G_802.11n HT40_Left Cheek_Ch46_Ant0+1_Battery3

DUT: 210204C02

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0);

Frequency: 5230 MHz; Duty Cycle: 1:1.13

Medium: H34T60N1_0318 Medium parameters used: f = 5230 MHz; $\sigma = 4.541$ S/m; $\epsilon_r = 36.089$; ρ

Date: 2021/03/18

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6°C; Liquid Temperature: 23.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(5.2, 5.2, 5.2) @ 5230 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.54 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 18.82 V/m; Power Drift = -0.06 dB

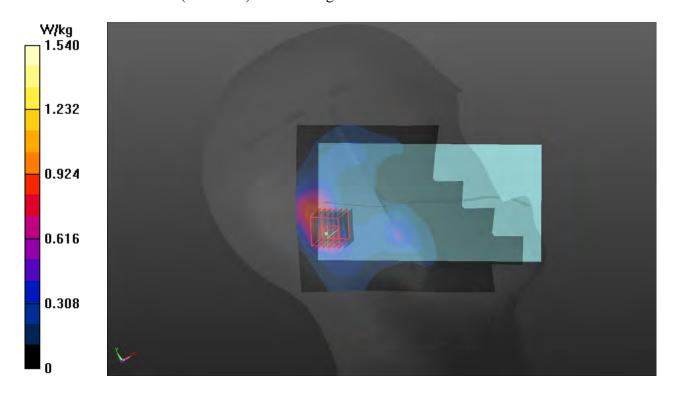
Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.241 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 71.8%

Maximum value of SAR (measured) = 1.35 W/kg



P03 WLAN5.6G_802.11n HT40_Left Tilted_Ch110_Ant0_Battery3

DUT: 210204C02

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0);

Frequency: 5550 MHz; Duty Cycle: 1:1.14

Medium: H34T60N1_0319 Medium parameters used: f = 5550 MHz; $\sigma = 5.129$ S/m; $\epsilon_r = 36.344$; ρ

Date: 2021/03/19

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.9, 4.9, 4.9) @ 5550 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 2.50 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 22.32 V/m; Power Drift = -0.12 dB

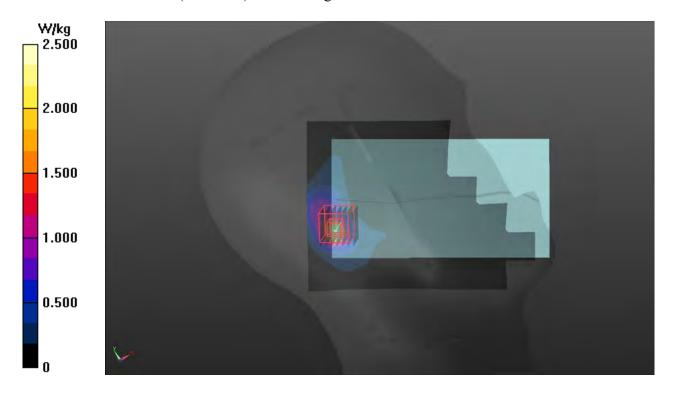
Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.356 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 69.7%

Maximum value of SAR (measured) = 2.47 W/kg



P04 WLAN5.8G_802.11ac VHT80_Left Cheek_Ch155_Ant0_Battery3

DUT: 210204C02

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency:

5775 MHz; Duty Cycle: 1:1.19

Medium: H34T60N1_0318 Medium parameters used: f = 5775 MHz; $\sigma = 5.06$ S/m; $\epsilon_r = 35.326$; $\rho = 10.06$ Medium: $\epsilon_r = 10.06$ Medium: $\epsilon_r = 10.06$ Medium: $\epsilon_r = 10.06$ MHz; $\epsilon_r =$

Date: 2021/03/18

 1000 kg/m^3

Ambient Temperature: 23.6 °C; Liquid Temperature: 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.732 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 20.32 V/m; Power Drift = 0.08 dB

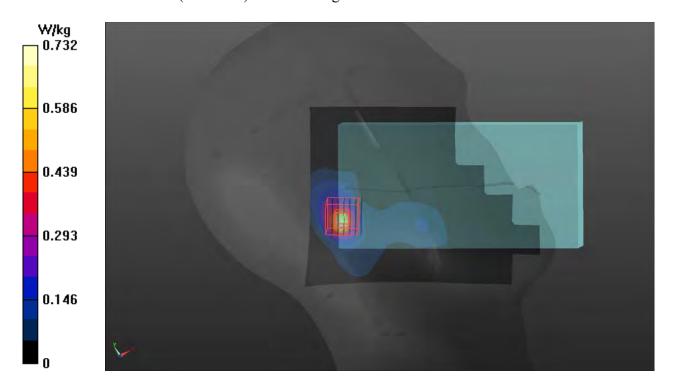
Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.122 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 67.7%

Maximum value of SAR (measured) = 0.724 W/kg



P06 WLAN2.4G_802.11b_Front Face_15mm Ch6 Ant0+1 Battery3

DUT: 210204C02

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium: H19T27N1 0319 Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 1.842$ S/m;

Date: 2021/03/19

 ϵ_r = 38.482; ρ = 1000 kg/m³ Ambient Temperature : 23.7 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(7.87, 7.87, 7.87) @ 2437 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

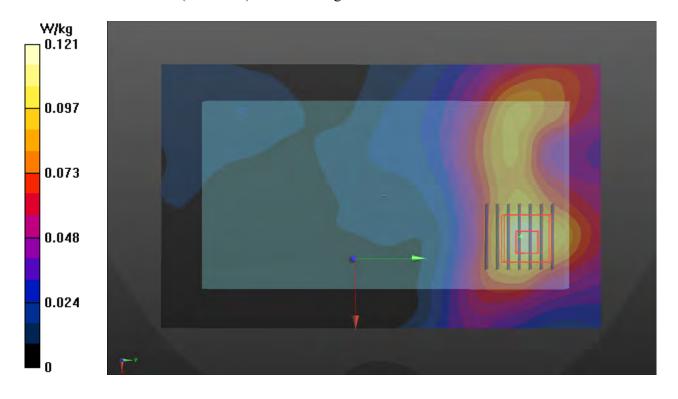
Area Scan (101x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.121 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.007 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.145 W/kg

SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.049 W/kg (SAR corrected for target medium)Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 0.120 W/kg



P07 WLAN5.2G_802.11n HT40_Rear Face_15mm_Ch46_Ant0+1_Battery3

Date: 2021/03/18

DUT: 210204C02

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0);

Frequency: 5230 MHz; Duty Cycle: 1:1.13

Medium: H34T60N1_0318 Medium parameters used: f = 5230 MHz; $\sigma = 4.541$ S/m; $\varepsilon_r = 36.089$; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6 °C; Liquid Temperature: 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(5.2, 5.2, 5.2) @ 5230 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

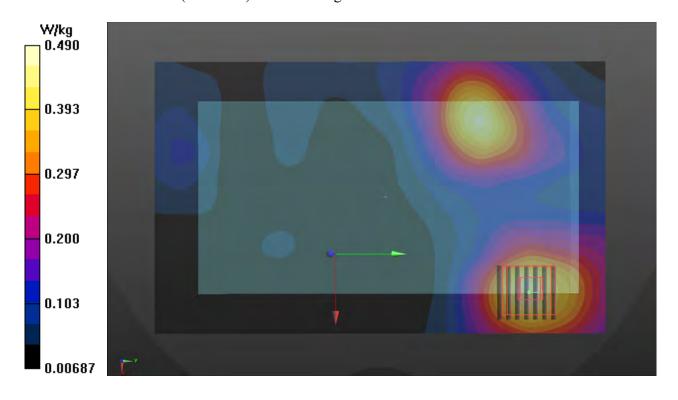
Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.490 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 10.96 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.673 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.109 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 70%

Maximum value of SAR (measured) = 0.466 W/kg



P08 WLAN5.6G_802.11n HT40_Rear Face_15mm_Ch142_Ant1_Battery3

DUT: 210204C02

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0);

Frequency: 5710 MHz; Duty Cycle: 1:1.15

Medium: H34T60N1_0319 Medium parameters used: f = 5710 MHz; $\sigma = 5.347$ S/m; $\varepsilon_r = 35.979$; ρ

Date: 2021/03/19

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.7 °C; Liquid Temperature: 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.95, 4.95, 4.95) @ 5710 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

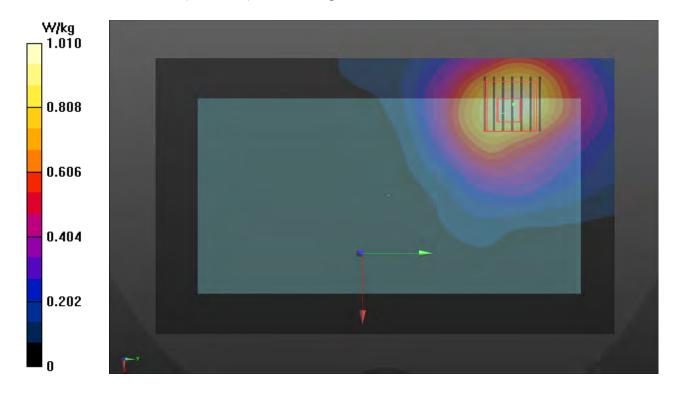
Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.01 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 15.14 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.221 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 65.7%

Maximum value of SAR (measured) = 1.05 W/kg



P09 WLAN5.8G_802.11ac VHT80_Rear Face_15mm_Ch155_Ant0+1_Battery3

Date: 2021/03/18

DUT: 210204C02

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency:

5775 MHz; Duty Cycle: 1:1.19

Medium: H34T60N1_0318 Medium parameters used: f = 5775 MHz; σ = 5.06 S/m; ϵ_r = 35.326; ρ =

 1000 kg/m^3

Ambient Temperature: 23.6 °C; Liquid Temperature: 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3971; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2021/01/19
- Phantom: Twin SAM Phantom 1986; Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (121x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 0.777 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 10.94 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.834 W/kg

SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.100 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 18.5 mm

Ratio of SAR at M2 to SAR at M1 = 64.7%

Maximum value of SAR (measured) = 0.523 W/kg



P11 WLAN2.4G_802.11b_Right Side_0mm_Ch6_Ant0+1_Battery3

DUT: 210204C02

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2437 MHz; Duty Cycle: 1:1.01

Medium: H19T27N1_0320 Medium parameters used (interpolated): f = 2437 MHz; $\sigma = 1.873$ S/m; ϵ_r

Date: 2021/03/20

= 38.363; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(7.69, 7.69, 7.69) @ 2437 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x171x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 3.72 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.15 V/m; Power Drift = -0.13 dB

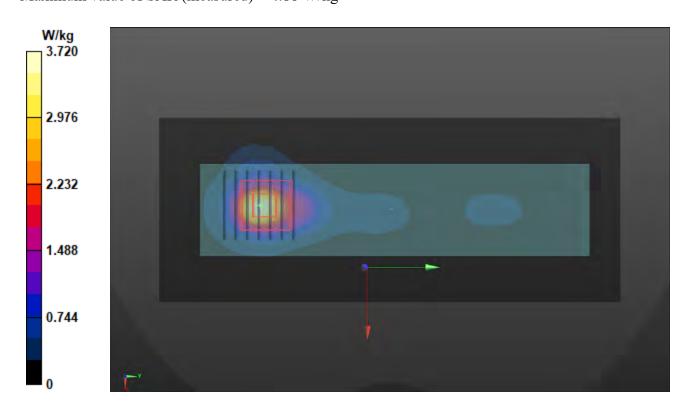
Peak SAR (extrapolated) = 6.49 W/kg

SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 43.9%

Maximum value of SAR (measured) = 4.86 W/kg



P12 WLAN5.2G 802.11n HT40 Top Side 0mm Ch46 Ant 0 Battery3

DUT: 210204C02

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0); Frequency: 5230 MHz; Duty Cycle: 1:1.13

Date: 2021/03/20

Medium: H34T60N1 0320 Medium parameters used: f = 5230 MHz; $\sigma = 4.775$ S/m; $\varepsilon_r = 35.306$; $\rho =$ 1000 kg/m^3

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

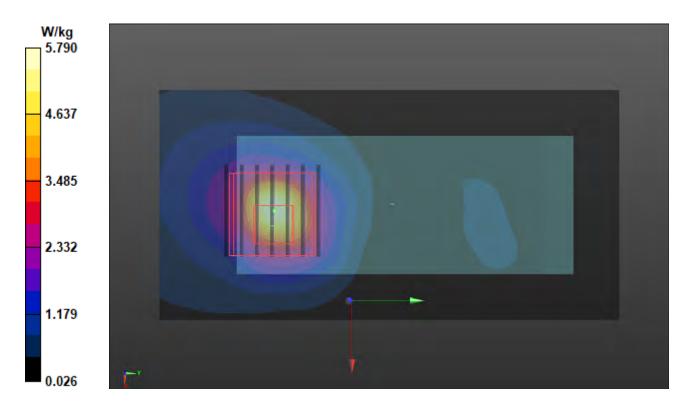
- DASY5 Configuration:
 Probe: EX3DV4 SN7472; ConvF(5.72, 5.72, 5.72) @ 5230 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom 1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 5.79 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 38.28 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 3.24 W/kg; SAR(10 g) = 0.952 W/kg (SAR corrected for target medium)Smallest distance from peaks to all points 3 dB below = 6.8 mmRatio of SAR at M2 to SAR at M1 = 67.1%

Maximum value of SAR (measured) = 7.89 W/kg



P13 WLAN5.6G_802.11n HT40 Left Side 0mm Ch142 Ant 0 Battery3

DUT: 210204C02

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0); Frequency:

Date: 2021/03/20

5710 MHz; Duty Cycle: 1:1.14

Medium: H34T60N1 0320 Medium parameters used: f = 5710 MHz; $\sigma = 5.3$ S/m; $\varepsilon_r = 34.468$; $\rho =$

 1000 kg/m^3

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(5.25, 5.25, 5.25) @ 5710 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom 1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

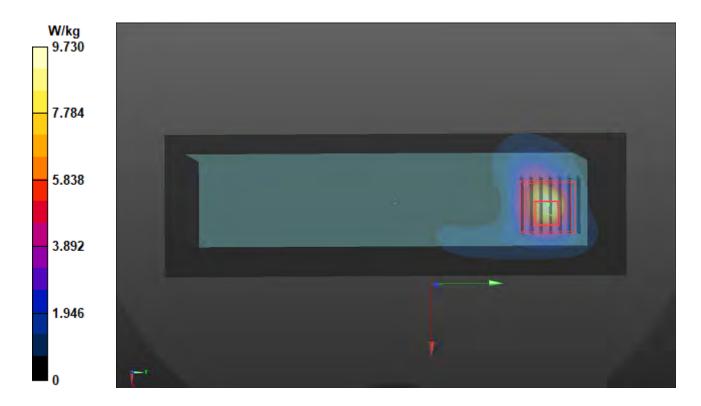
Area Scan (61x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 9.73 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 45.18 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 21.0 W/kg

SAR(1 g) = 4.49 W/kg; SAR(10 g) = 1.35 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below = 6.4 mm Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 12.9 W/kg



P14 WLAN5.8G_802.11ac VHT80_Left Side_0mm_Ch155_Ant 0+1_Battery3

DUT: 210204C02

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5775 MHz; Duty Cycle: 1:1.19

Date: 2021/03/20

Medium: H34T60N1_0320 Medium parameters used: f = 5775 MHz; $\sigma = 5.371$ S/m; $\epsilon_r = 34.335$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature: 23.0 °C

DASY5 Configuration:

- Probe: EX3DV4 SN7472; ConvF(5.25, 5.25, 5.25) @ 5775 MHz; Calibrated: 2020/08/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2020/05/28
- Phantom: SAM Phantom_1982; Type: QD 000 P41 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

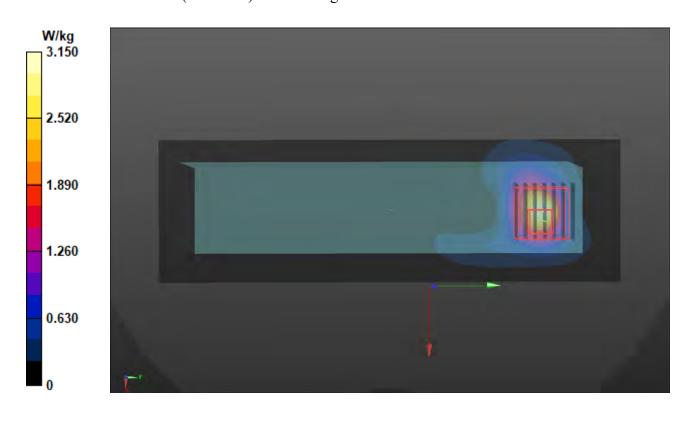
Area Scan (61x201x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 3.15 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 25.39 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 7.05 W/kg

SAR(1 g) = 1.66 W/kg; SAR(10 g) = 0.511 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 4.21 W/kg





Appendix C. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.

Report Format Version 5.0.0 Issued Date : Mar. 30, 2021

Report No. : SF200428C03I Reference No. : 210205C01

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Certificate No: D2450V2-737_Aug20

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

B.V. ADT (Auden)

CALIBRATION CERTIFICATE

Object **D2450V2 - SN:737**

Calibration procedure(s) QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: August 13, 2020

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}$ C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------------|--------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 01-Apr-20 (No. 217-03100/03101) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103244 | 01-Apr-20 (No. 217-03100) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103245 | 01-Apr-20 (No. 217-03101) | Apr-21 |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 31-Mar-20 (No. 217-03106) | Apr-21 |
| Type-N mismatch combination | SN: 310982 / 06327 | 31-Mar-20 (No. 217-03104) | Apr-21 |
| Reference Probe EX3DV4 | SN: 7349 | 29-Jun-20 (No. EX3-7349_Jun20) | Jun-21 |
| DAE4 | SN: 601 | 27-Dec-19 (No. DAE4-601_Dec19) | Dec-20 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB39512475 | 30-Oct-14 (in house check Feb-19) | In house check: Oct-20 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-18) | In house check: Oct-20 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-18) | In house check: Oct-20 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-18) | In house check: Oct-20 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-19) | In house check: Oct-20 |
| | Name | Function | Signature |
| Calibrated by: | Jeffrey Katzman | Laboratory Technician | 1. Later |
| | | | |
| Approved by: | Katja Pokovic | Technical Manager | le as |

Issued: August 14, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

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





Schweizerischer Kalibrierdienst
Service suisse 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

Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 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%.

Measurement Conditions

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

| DASY Version | DASY5 | V52.10.4 |
|------------------------------|------------------------|-------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 2450 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 39.2 | 1.80 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 38.9 ± 6 % | 1.84 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 13.1 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 51.6 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 6.12 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.3 W/kg ± 16.5 % (k=2) |

Certificate No: D2450V2-737_Aug20

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 54.8 Ω + 4.7 jΩ | |
|--------------------------------------|-----------------|--|
| Return Loss | - 23.9 dB | |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.162 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 |
|-----------------|-------|

Certificate No: D2450V2-737_Aug20 Page 4 of 6

DASY5 Validation Report for Head TSL

Date: 13.08.2020

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:737

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.84 \text{ S/m}$; $\varepsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.74, 7.74, 7.74) @ 2450 MHz; Calibrated: 29.06.2020

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 27.12.2019
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 114.4 V/m; Power Drift = -0.09 dB

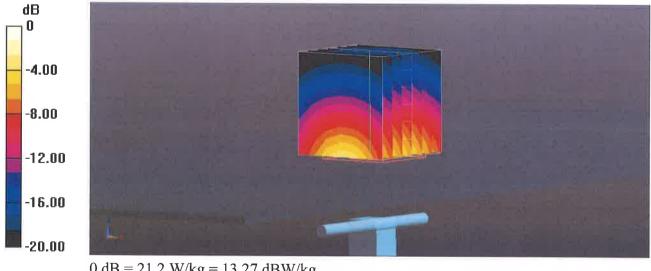
Peak SAR (extrapolated) = 25.6 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

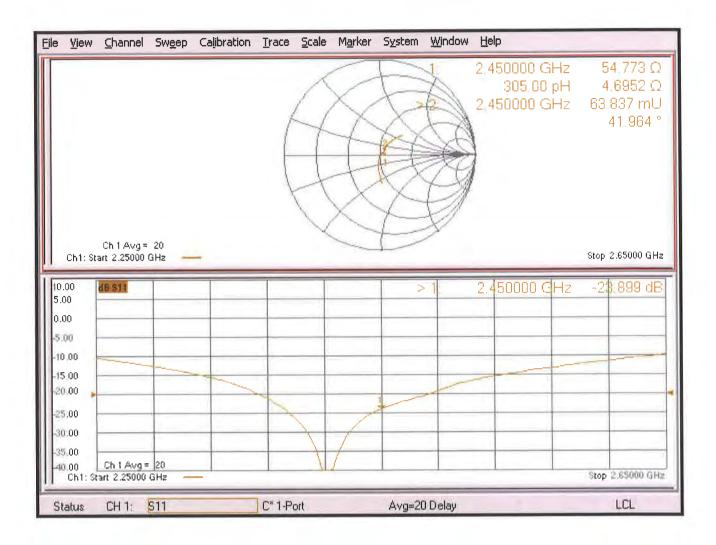
Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 13.27 dBW/kg

Impedance Measurement Plot for Head TSL





CALIBRATION LABORATORY

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CALIBRATION **CNAS L0570**

E-mail: cttl@chinattl.com Client

AUDEN

Certificate No:

Z20-60430

CALIBRATION CERTIFICATE

Tel: +86-10-62304633-2512

Object

D5GHzV2 - SN: 1145

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

November 9, 2020

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------------|------------|--|-----------------------|
| Power Meter NRP2 | 106276 | 12-May-20 (CTTL, No.J20X02965) | May-21 |
| Power sensor NRP6A | 101369 | 12-May-20 (CTTL, No.J20X02965) | May-21 |
| ReferenceProbe EX3DV4 | SN-3617 | 30-Jan-20(SPEAG,No.EX3-3617_Jan20) | Jan-21 |
| DAE4 | SN 771 | 10-Feb-20(CTTL-SPEAG,No.Z20-60017) | Feb-21 |
| Secondary Standards | ID# | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
| Signal Generator E4438C | MY49071430 | 25-Feb-20 (CTTL, No.J20X00516) | Feb-21 |
| NetworkAnalyzerE5071C | MY46110673 | 10-Feb-20 (CTTL, No.J20X00515) | Feb-21 |
| | | | |

Name

Function

Calibrated by:

Zhao Jing

SAR Test Engineer

Reviewed by:

Lin Hao

SAR Test Engineer

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: November 19, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z20-60430

Page 1 of 8



Glossary:

TSL

tissue simulating liquid

ConvF^{*} N/A

sensitivity in TSL / NORMx,y,z

not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 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: Z20-60430

Measurement Conditions

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

| DASY Version | DASY52 | V52.10.4 |
|------------------------------|--|----------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Triple Flat Phantom 5.1C | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy = 4 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz | |

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|------------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.9 | 4.71 mho/m - |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.1 ± 6 % | 4.76 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | and to the color | grand all de |

SAR result with Head TSL at 5250 MHz

| SAR averaged over 1 cm^3 (1 g) of Head TSL | Condition | |
|--|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.78 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 77.5 W/kg ± 24.4 % (k=2) |
| SAR averaged over 10 ${\it cm}^3$ (10 g) of Head TSL | Condition | |
| SAR measured | 100 mW input power | 2.22 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.1 W/kg ± 24.2 % (k=2) |



Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.5 | 5,07 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.5 ± 6 % | 5.14 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | | an an ar as |

SAR result with Head TSL at 5600 MHz

| SAR averaged over 1 cm^3 (1 g) of Head TSL | Condition | |
|--|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.07 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 80.3 W/kg ± 24.4 % (k=2) |
| SAR averaged over 10 cm^3 (10 g) of Head TSL | Condition | |
| SAR measured | 100 mW input power | 2.30 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.9 W/kg ± 24.2 % (k=2) |

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.4 | 5.22 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.4 ± 6 % | 5.31 mho/m ± 6 % |
| Head TSL temperature change during test | <1.0 °C | | or quant car |

SAR result with Head TSL at 5750 MHz

| SAR averaged over 1 cm^3 (1 g) of Head TSL | Condition | |
|--|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.79 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 77.5 W/kg ± 24.4 % (k=2) |
| SAR averaged over 10 cm³ (10 g) of Head TSL | Condition | |
| SAR measured | 100 mW input power | 2.22 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.1 W/kg ± 24.2 % (k=2) |



Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL at 5250 MHz

| Impedance, transformed to feed point | 53.1Ω - 9.17jΩ | |
|--------------------------------------|----------------|--|
| Return Loss | - 20.6dB | |

Antenna Parameters with Head TSL at 5600 MHz

| Impedance, transformed to feed point | 58.7Ω - 0.77jΩ |
|--------------------------------------|----------------|
| Return Loss | - 21.9dB |

Antenna Parameters with Head TSL at 5750 MHz

| Impedance, transformed to feed point | 56.5Ω - 2.83jΩ |
|--------------------------------------|----------------|
| Return Loss | - 23.5dB |

General Antenna Parameters and Design

| | ······································ |
|----------------------------------|--|
| Electrical Delay (one direction) | 1.067 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 |

Certificate No: Z20-60430



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504 http://www.chinattl.cn

DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beiling, China

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1145

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz,

Date: 11.09.2020

Frequency: 5750 MHz,

Medium parameters used: f = 5250 MHz; σ = 4.756 S/m; ϵ_r = 35.12; ρ = 1000 kg/m³, Medium parameters used: f = 5600 MHz; σ = 5.14 S/m; ϵ_r = 34.53; ρ = 1000 kg/m³, Medium parameters used: f = 5750 MHz; σ = 5.306 S/m; ϵ_r = 34.41; ρ = 1000 kg/m³,

Phantom section: Center Section

DASY5 Configuration:

Probe: EX3DV4 - SN3617; ConvF(5.39, 5.39, 5.39) @ 5250 MHz; ConvF(4.99, 4.99, 4.99) @ 5600 MHz; ConvF(5.1, 5.1, 5.1) @ 5750 MHz; Calibrated:
 2020-01-30

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn771; Calibrated: 2020-02-10
- Phantom: MFP V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.55 V/m: Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.22 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.5%

Maximum value of SAR (measured) = 17.9 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.50 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 35.7 W/kg

SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.3 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 62%

Maximum value of SAR (measured) = 19.6 W/kg

Certificate No: Z20-60430



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504 http://www.chinattl.cn

Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 68.32 V/m; Power Drift = 0.00 dB

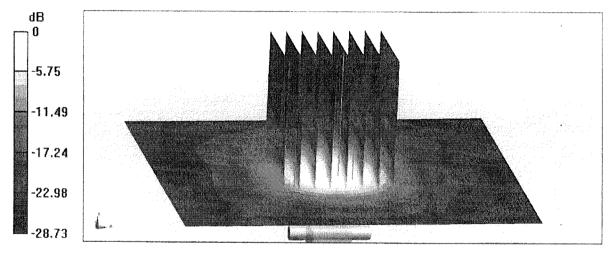
Peak SAR (extrapolated) = 34.7 W/kg

SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.22 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.8%

Maximum value of SAR (measured) = 19.0 W/kg

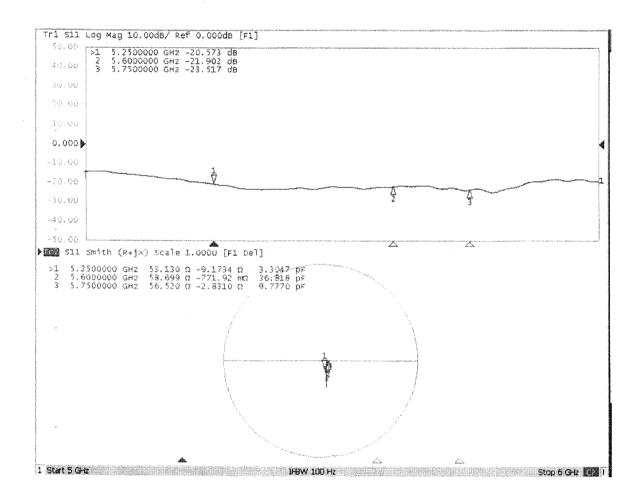


0 dB = 19.0 W/kg = 12.79 dBW/kg



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504 http://www.chinattl.cn

Impedance Measurement Plot for Head TSL



Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Certificate No: EX3-3971_Jan21

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

Object

B.V. ADT (Auden)

CALIBRATION CERTIFICATE

EX3DV4 - SN:3971

Calibration procedure(s) QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date: January 27, 2021

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).

The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate,

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 01-Apr-20 (No. 217-03100/03101) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103244 | 01-Apr-20 (No. 217-03100) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103245 | 01-Apr-20 (No. 217-03101) | Apr-21 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 31-Mar-20 (No. 217-03106) | Apr-21 |
| DAE4 | SN: 660 | 23-Dec-20 (No. DAE4-660_Dec20) | Dec-21 |
| Reference Probe ES3DV2 | SN: 3013 | 30-Dec-20 (No. ES3-3013_Dec20) | Dec-21 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-20) | In house check: Jun-22 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-20) | In house check: Oct-21 |

Calibrated by:

Signature

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: February 1, 2021

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

TSL tissue simulating liquid

NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

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

Polarization φ φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) 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 9 = 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 (no uncertainty required). 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 * ConvF 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: EX3-3971_Jan21 Page 2 of 23

EX3DV4 – SN:3971 January 27, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3971

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|--------------------------|----------|----------|----------|-----------|
| Norm $(\mu V/(V/m)^2)^A$ | 0.38 | 0.51 | 0.50 | ± 10.1 % |
| DCP (mV) ^B | 105.0 | 101.0 | 99.4 | |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dBõV | С | D dB | VR mV | Max dev. | Max Unc ^E (k=2) | | | |
|---------|---|---|---------|-----------|-------|---------|----------|-------------|----------------------------------|---------|--|--|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 135.9 | ± 2.7 % | ± 4.7 % | | | |
| U | 000 | Y | 0.00 | 0.00 | 1.00 | | 145.5 | | | | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 150.0 | | | | | |
| 10352- | Pulse Waveform (200Hz, 10%) | X | 9.78 | 81.01 | 16.76 | 10.00 | 60.0 | ± 3.8 % | ± 9.6 % | | | |
| AAA | Total of the control | Y | 82.00 | 108.00 | 25.00 | | 60.0 | | | | | |
| , , , , | | Z | 20.00 | 92.49 | 21.13 | | 60.0 | | | | | |
| 10353- | Pulse Waveform (200Hz, 20%) | X | 20.00 | 89.97 | 18.36 | 6.99 | 80.0 | ± 2.3 % | ± 9.6 % | | | |
| AAA | Talso transisiii (assiii) | Y | 20.00 | 94.06 | 20.87 | | 80.0 | | | | | |
| | | Z | 20.00 | 94.84 | 21.28 | | 80.0 | | | | | |
| 10354- | Pulse Waveform (200Hz, 40%) | X | 20.00 | 95.71 | 19.75 | 3.98 | 95.0 | ± 1.1 % | ± 9.6 % | | | |
| AAA | (====, ==, | Y | 20.00 | 99.96 | 22.35 | | | 95.0 | 95.0 | 95.0 | | |
| , , , , | | Z | 20.00 | 101.51 | 23.26 | | 95.0 | | | | | |
| 10355- | Pulse Waveform (200Hz, 60%) | X | 20.00 | 114.74 | 27.28 | 2.22 | 120.0 | 0 | ± 1.7 % | ± 9.6 % | | |
| AAA | , 4.00 | Y | 20.00 | 108.38 | 25.00 | | 120.0 | | | | | |
| | | Z | 20.00 | 111.36 | 26.63 | | 120.0 | | - | | | |
| 10387- | QPSK Waveform, 1 MHz | X | 2.13 | 72.04 | 18.09 | 1.00 | | ± 1.8 % | ± 9.6 % | | | |
| AAA | | Y | 1.73 | 65.57 | 14.90 | | 150.0 | | | | | |
| | | Z | 1.80 | 66.65 | 15.52 | | 150.0 | | | | | |
| 10388- | QPSK Waveform, 10 MHz | X | 2.59 | 71.42 | 17.98 | 0.00 | 150.0 | ± 1.0 % | ± 9.6 % | | | |
| AAA | | Y | 2.26 | 67.68 | 15.56 | | 150.0 | | | | | |
| | | Z | 2.39 | 68.78 | 16.21 | | 150.0 | | | | | |
| 10396- | 64-QAM Waveform, 100 kHz | X | 2.54 | 70.33 | 19.22 | 3.01 | 150.0 | ± 1.0 % | ± 9.6 % | | | |
| AAA | | Y | 2.96 | 70.79 | 18.91 | | 150.0 | | | | | |
| | | Z | 2.94 | 70.63 | 18.99 | | 150.0 | | | | | |
| 10399- | 64-QAM Waveform, 40 MHz | X | 3.71 | 68.43 | 16.82 | 0.00 | 150.0 | ± 0.8 % | ± 9.6 % | | | |
| AAA | | Y | 3.57 | 67.13 | 15.75 | | 150.0 | | | | | |
| | | Z | 3.50 | 66.90 | 15.74 | | 150.0 | | | | | |
| 10414- | WLAN CCDF, 64-QAM, 40MHz | X | 4.78 | 65.88 | 15.95 | 0.00 | 150.0 | ± 1.5 % | ± 9.6 % | | | |
| AAA | | Y | 4.78 | 65.07 | 15.21 | | 150.0 | | | | | |
| | | Z | 4.84 | 65.36 | 15.42 | | 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%.

^B Numerical linearization parameter: uncertainty not required.

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

EX3DV4- SN:3971 January 27, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3971

Sensor Model Parameters

| | C1 fF | C2 fF | α V ⁻¹ | T1 ms.V ⁻² | T2 ms.V ⁻¹ | T3 ms | T4 V ⁻² | T5 V ⁻¹ | Т6 |
|---|----------|----------|----------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|------|
| X | 35.3 | 264.75 | 36.18 | 7.75 | 0.27 | 4.99 | 1.41 | 0.01 | 1.00 |
| Υ | 50.8 | 374.72 | 34.79 | 10.42 | 0.15 | 5.04 | 1.63 | 0.13 | 1.01 |
| Z | 48.9 | 362.05 | 35.10 | 12.93 | 0.00 | 5.06 | 1.10 | 0.22 | 1.01 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle (°) | -107.1 |
| 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.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3971

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 750 | 41.9 | 0.89 | 10.45 | 10.45 | 10.45 | 0.43 | 0.86 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 10.17 | 10.17 | 10.17 | 0.45 | 0.80 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.89 | 9.89 | 9.89 | 0.43 | 0.89 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 8.87 | 8.87 | 8.87 | 0.33 | 0.80 | ± 12.0 % |
| 1640 | 40.2 | 1.31 | 8.76 | 8.76 | 8.76 | 0.19 | 0.82 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.64 | 8.64 | 8.64 | 0.32 | 0.90 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 8.35 | 8.35 | 8.35 | 0.24 | 0.90 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 8.32 | 8.32 | 8.32 | 0.30 | 0.88 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 7.99 | 7.99 | 7.99 | 0.30 | 0.95 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.87 | 7.87 | 7.87 | 0.28 | 0.95 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 7.72 | 7.72 | 7.72 | 0.35 | 0.88 | ± 12.0 % |
| 3300 | 38.2 | 2.71 | 7.30 | 7.30 | 7.30 | 0.35 | 1.30 | ± 13.1 % |
| 3500 | 37.9 | 2.91 | 6.80 | 6.80 | 6.80 | 0.35 | 1.30 | ± 13.1 % |
| 3700 | 37.7 | 3.12 | 6.78 | 6.78 | 6.78 | 0.40 | 1.35 | ± 13.1 % |
| 3900 | 37.5 | 3.32 | 6.70 | 6.70 | 6.70 | 0.40 | 1.60 | ± 13.1 % |
| 4100 | 37.2 | 3.53 | 6.30 | 6.30 | 6.30 | 0.40 | 1.60 | ± 13.1 % |
| 4200 | 37.1 | 3.63 | 6.25 | 6.25 | 6.25 | 0.40 | 1.70 | ± 13.1 % |
| 4400 | 36.9 | 3.84 | 6.15 | 6.15 | 6.15 | 0.40 | 1.70 | ± 13.1 % |
| 4600 | 36.7 | 4.04 | 6.10 | 6.10 | 6.10 | 0.40 | 1.70 | ± 13.1 % |
| 4800 | 36.4 | 4.25 | 6.08 | 6.08 | 6.08 | 0.40 | 1.70 | ± 13.1 % |
| 4950 | 36.3 | 4.40 | 5.82 | 5.82 | 5.82 | 0.40 | 1.80 | ± 13.1 % |
| 5250 | 35.9 | 4.71 | 5.20 | 5.20 | 5.20 | 0.40 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 4.90 | 4.90 | 4.90 | 0.40 | 1.80 | ± 13.1 % |
| 5750 | 35.4 | 5.22 | 4.95 | 4.95 | 4.95 | 0.40 | 1.80 | ± 13.1 % |
| 5850 | 48.1 | 6.06 | 4.80 | 4.80 | 4.80 | 0.40 | 1.80 | ± 13.1 % |

^c 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 assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

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 boundary.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3971

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 6500 | 34.5 | 6.07 | 5.50 | 5.50 | 5.50 | 0.20 | 2.50 | ± 18.6 % |

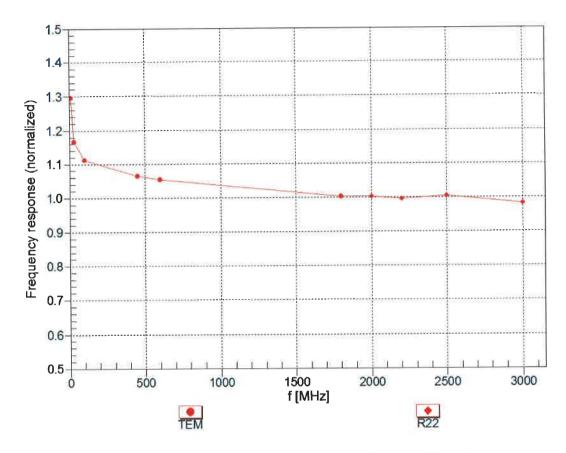
 $^{^{\}text{C}}$ Frequency validity above 6GHz is \pm 700 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. $^{\text{F}}$ At frequencies 6-10 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured

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SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

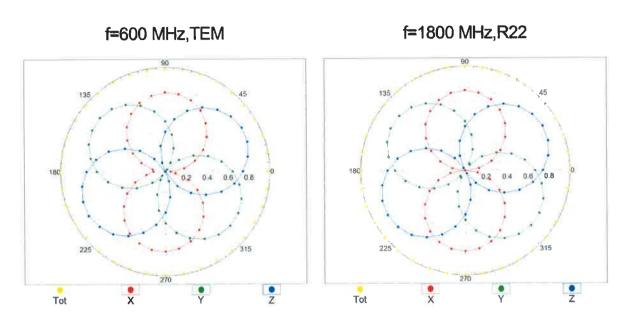
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz; below ± 2% for frequencies between 3-6 GHz; and below ± 4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

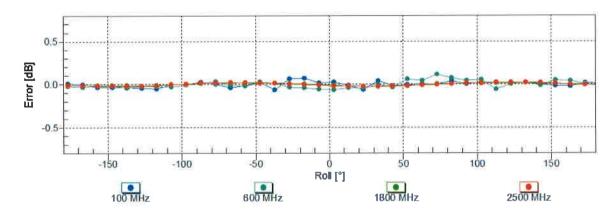
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

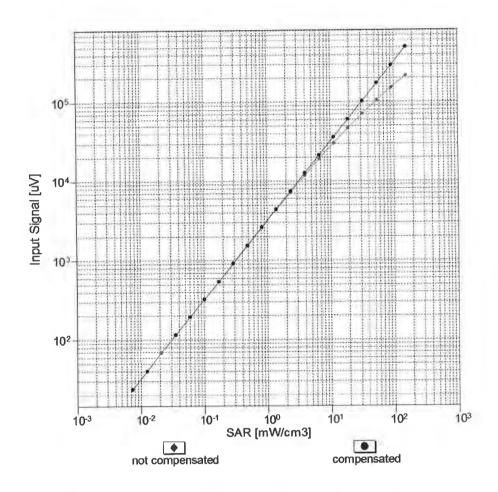
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

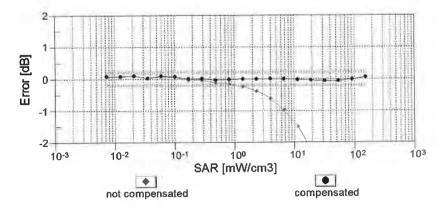




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

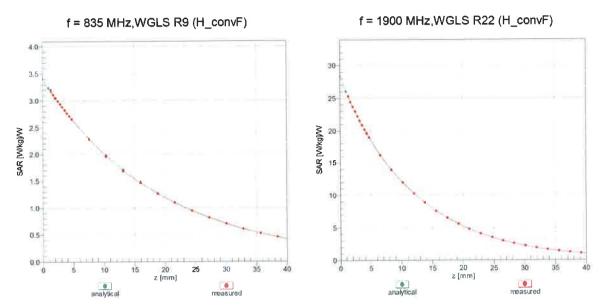
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



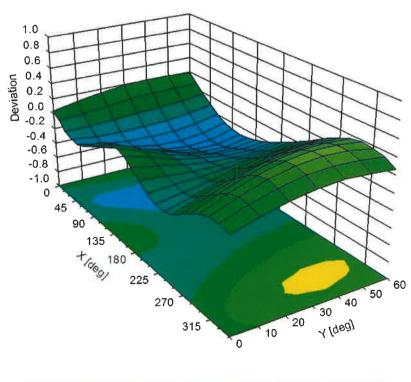


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz



Appendix: Modulation Calibration Parameters

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^t (k=2) |
|-------|-----|---|-----------|-------------|---------------------------|
| 0 | | CW | CW | 0.00 | ± 4.7 % |
| 10010 | CAA | SAR Validation (Square, 100ms, 10ms) | Test | 10.00 | ± 9.6 % |
| 10011 | CAB | 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 | ± 9.6 % |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.56 | ± 9.6 % |
| 10025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 12.62 | ± 9.6 % |
| 10026 | DAC | EDGE-FDD (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 Bluetooth (GFSK, DH1) | Bluetooth | 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 (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | ± 9.6 % |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | Bluetooth | 4.53 | ± 9.6 % |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | Bluetooth | 3.83 | ± 9.6 % |
| 10036 | - | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ± 9.6 % |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | ± 9.6 |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | ± 9.6 ° |
| 10039 | CAA | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | ± 9.6 ° |
| | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS | 7.78 | ± 9.6 |
| 10042 | CAB | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | ± 9.6 |
| 10044 | CAA | | DECT | 13.80 | ± 9.6 |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 10.79 | ± 9.6 |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | | | |
| 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 | ± 9.6 |
| 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 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | ± 9.6 |
| 10063 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | WLAN | 8.63 | ± 9.6 |
| 10064 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | ± 9.6 |
| 10065 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | WLAN | 9.00 | ± 9.6 |
| 10066 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ± 9.6 |
| 10067 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | ± 9.6 |
| 10068 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | WLAN | 10.24 | ± 9.6 |
| 10069 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | WLAN | 10.56 | ± 9.6 |
| 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 | ± 9.6 |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 9.94 | ± 9.6 |
| 10074 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | WLAN | 10.30 | ± 9.6 |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | ± 9.6 |
| 10076 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | WLAN | 10.94 | ± 9.6 |
| 10077 | CAB | 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, PI/4-DQPSK, Fullrate) | AMPS | 4.77 | ± 9.6 |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | GSM | 6.56 | ± 9.6 |
| 10097 | CAC | UMTS-FDD (HSDPA) | WCDMA | 3.98 | ± 9.6 |
| 10098 | DAC | UMTS-FDD (HSUPA, Subtest 2) | WCDMA | 3.98 | ± 9.6 |

| 10099 | CAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | ± 9.6 % |
|----------------------|------|--|---------|-------|---------|
| 10100 | CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | ± 9.6 % |
| 10101 | CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ± 9.6 % |
| 10102 | CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10103 | DAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TDD | 9.29 | ± 9.6 % |
| 10104 | CAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ± 9.6 % |
| 10105 | _ | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.01 | ± 9.6 % |
| 10108 | CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | 5.80 | ± 9.6 % |
| 10109 | CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10109 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.44 | ± 9.6 % |
| 10111 | CAG | | LTE-FDD | 6.59 | ± 9.6 % |
| 10112 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ± 9.6 % |
| 10113 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | WLAN | | ± 9.6 % |
| 10114 | CAG | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | | 8.10 | |
| 10115 | CAG | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | ± 9.6 % |
| 10116 | CAG | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8.15 | ± 9.6 % |
| 10117 | CAG | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | ± 9.6 % |
| 10118 | CAD | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) | WLAN | 8.59 | ± 9.6 % |
| 10119 | CAD | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10140 | CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10141 | CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | ± 9.6 % |
| 10142 | CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10143 | CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | ± 9.6 % |
| 10144 | CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.65 | ± 9.6 % |
| 10145 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | ± 9.6 % |
| 10146 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ± 9.6 % |
| 10147 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.72 | ± 9.6 % |
| 10149 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ± 9.6 % |
| 10150 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10151 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | ± 9.6 % |
| 10152 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| 10153 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | ± 9.6 % |
| 10154 | CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| 10155 | CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10156 | CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5.79 | ± 9.6 % |
| 10157 | CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10158 | | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ± 9.6 % |
| 10159 | CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.56 | ± 9.6 % |
| | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FDD | 5.82 | ± 9.6 % |
| 10160 | CAG | | | | |
| 10161 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10162 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.58 | ± 9.6 % |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.46 | ± 9.6 % |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.21 | ± 9.6 % |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.79 | ± 9.6 % |
| 10169 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10170 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10171 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10172 | CAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10173 | CAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10174 | CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10175 | CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
| 10176 | CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10177 | CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10178 | CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10179 | AAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| - · · · - | LAIL | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | | | 1 |

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| 10181 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
|----------------|-----|---|---------|-------|---------|
| 10182 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10183 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10184 | CAG | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10185 | CAG | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-FDD | 6.51 | ± 9.6 % |
| 10186 | - | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10189 10193 | CAE | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | ± 9.6 % |
| | CAE | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | ± 9.6 % |
| 10194 | AAD | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN | 8.21 | ± 9.6 % |
| 10195 | CAE | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.10 | ± 9.6 % |
| 10196 | CAE | | WLAN | 8.13 | ± 9.6 % |
| 10197 | AAE | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10198 | CAF | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.03 | ± 9.6 % |
| 10219 | CAF | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.13 | ± 9.6 % |
| 10220 | AAF | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | | | |
| 10221 | CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10222 | CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | WLAN | 8.06 | ± 9.6 % |
| 10223 | CAD | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | WLAN | 8.48 | ± 9.6 % |
| 10224 | CAD | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | WLAN | 8.08 | ± 9.6 % |
| 10225 | CAD | UMTS-FDD (HSPA+) | WCDMA | 5.97 | ± 9.6 % |
| 10226 | CAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.49 | ± 9.6 % |
| 10227 | CAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ± 9.6 % |
| 10228 | CAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9.22 | ± 9.6 % |
| 10229 | DAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10230 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10231 | CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDD | 9.19 | ± 9.6 % |
| 10232 | CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10233 | CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10234 | CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10235 | CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10236 | CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10237 | CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10238 | CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10239 | CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10240 | CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10241 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | ± 9.6 % |
| 10241 | _ | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | ± 9.6 % |
| 10243 | CAD | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.46 | ± 9.6 % |
| 10244 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10245 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| | CAG | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 % |
| 10246 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | ± 9.6 % |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 10.09 | ± 9.6 % |
| 10248 | CAG | | LTE-TDD | 9.29 | ± 9.6 % |
| 10249 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-TDD | 9.29 | ± 9.6 % |
| 10250 | CAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | | |
| 10251 | CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | | 10.17 | ± 9.6 % |
| 10252 | CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TDD | 9.24 | ± 9.6 % |
| 10253 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-TDD | 9.90 | ± 9.6 % |
| 10254 | CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.14 | ± 9.6 % |
| 10255 | CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 9.20 | ± 9.6 % |
| 10256 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.96 | ± 9.6 % |
| 10257 | CAD | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.08 | ± 9.6 % |
| 10258 | CAD | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.34 | ± 9.6 % |
| 10259 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TDD | 9.98 | ± 9.6 % |

| 10260 | CAG | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-TDD | 9.97 | ± 9.6 % |
|-------|-----|---|----------|-------|--------------------|
| 10261 | CAG | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TDD | 9.24 | ± 9.6 % |
| 10262 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.83 | ± 9.6 % |
| 10263 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.16 | ± 9.6 % |
| 10264 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-TDD | 9.23 | ± 9.6 % |
| 10265 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| 10266 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.07 | ± 9.6 % |
| 10267 | CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 % |
| 10268 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10269 | CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.13 | ± 9.6 % |
| 10270 | CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9.58 | ± 9.6 % |
| 10274 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | ± 9.6 % |
| 10274 | CAD | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 3.96 | ± 9.6 % |
| 10277 | | PHS (QPSK) | PHS | 11.81 | ± 9.6 % |
| 10277 | CAD | PHS (QPSK, BW 884MHz, Rolloff 0.5) | PHS | 11.81 | ± 9.6 % |
| 10278 | CAD | PHS (QPSK, BW 884MHz, Rolloff 0.38) | PHS | 12.18 | ± 9.6 % |
| 10279 | CAG | CDMA2000, RC1, SO55, Full Rate | CDMA2000 | 3.91 | ± 9.6 % |
| | CAG | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ± 9.6 % |
| 10291 | CAG | | CDMA2000 | 3.39 | ± 9.6 % |
| 10292 | CAG | CDMA2000, RC3, SO32, Full Rate | CDMA2000 | 3.50 | ± 9.6 % |
| 10293 | CAG | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 12.49 | ± 9.6 % |
| 10295 | CAG | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | LTE-FDD | 5.81 | ± 9.6 % |
| 10297 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5.72 | ± 9.6 % |
| 10298 | CAF | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-FDD | | |
| 10299 | CAF | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.39 | ± 9.6 % ± 9.6 % |
| 10300 | CAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | WiMAX | | ± 9.6 % |
| 10301 | CAC | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | | 12.03 | |
| 10302 | CAB | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) | WiMAX | 12.57 | ± 9.6 % |
| 10303 | CAB | IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 12.52 | ± 9.6 % |
| 10304 | CAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 11.86 | ± 9.6 % |
| 10305 | CAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 15.24 | ± 9.6 % |
| 10306 | CAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 14.67 | ± 9.6 % |
| 10307 | AAB | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC) | WiMAX | 14.49 | ± 9.6 % |
| 10308 | AAB | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) | WiMAX | 14.46 | ± 9.6 % |
| 10309 | AAB | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) | WiMAX | 14.58 | ± 9.6 % |
| 10310 | AAB | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 | WiMAX | 14.57 | ± 9.6 % |
| 10311 | AAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDD | 6.06 | ± 9.6 % |
| 10313 | AAD | iDEN 1:3 | iDEN | 10.51 | ± 9.6 % |
| 10314 | AAD | iDEN 1:6 | iDEN | 13.48 | ± 9.6 % |
| 10315 | AAD | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) | WLAN | 1.71 | ± 9.6 % |
| 10316 | AAD | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10317 | AAA | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10352 | AAA | Pulse Waveform (200Hz, 10%) | Generic | 10.00 | ± 9.6 % |
| 10353 | AAA | Pulse Waveform (200Hz, 20%) | Generic | 6.99 | ± 9.6 % |
| 10354 | AAA | Pulse Waveform (200Hz, 40%) | Generic | 3.98 | ± 9.6 % |
| 10355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 2.22 | ± 9.6 % |
| 10356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 0.97 | ± 9.6 % |
| 10387 | AAA | QPSK Waveform, 1 MHz | Generic | 5.10 | ± 9.6 % |
| 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 | ± 9.6 % |
| 10400 | AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10401 | AAA | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10402 | AAA | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc) | WLAN | 8.53 | ± 9.6 % |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 3.76 | ± 9.6 % |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | ± 9.6 % |
| 10406 | AAD | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ± 9.6 % |

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| 10410 | AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9) | LTE-TDD | 7.82 | ± 9.6 % |
|-------|-----|--|----------|-------|--------------------|
| 10414 | AAA | WLAN CCDF, 64-QAM, 40MHz | Generic | 8.54 | ± 9.6 % |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc) | WLAN | 1.54 | ± 9.6 % |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10417 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long) | WLAN | 8.14 | ± 9.6 % |
| 10419 | - | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short) | WLAN | 8.19 | ± 9.6 % |
| 10419 | AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | ± 9.6 % |
| 10423 | AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | ± 9.6 % |
| 10423 | AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | ± 9.6 % |
| 10424 | AAE | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ± 9.6 % |
| 10425 | AAE | IEEE 802.11n (HT Greenfield, 10 Mbps, 16-QAM) | WLAN | 8.45 | ± 9.6 % |
| | AAE | IEEE 802.11n (HT Greenfield, 35 Mbps, 64-QAM) | WLAN | 8.41 | ± 9.6 % |
| 10427 | AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | ± 9.6 % |
| 10430 | AAB | LTE-FDD (OFDMA, 3 MHz, E-TM 3.1) | LTE-FDD | 8.38 | ± 9.6 % |
| 10431 | AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8.34 | ± 9.6 % |
| 10432 | AAB | | LTE-FDD | 8.34 | ± 9.6 % |
| 10433 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | WCDMA | 8.60 | ± 9.6 % |
| 10434 | AAG | W-CDMA (BS Test Model 1, 64 DPCH) | | | |
| 10435 | AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % ± 9.6 % |
| 10447 | AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 | ± 9.6 % |
| 10448 | AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%) | LTE-FDD | 7.53 | |
| 10449 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) | LTE-FDD | 7.51 | ± 9.6 % |
| 10450 | AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | ± 9.6 % |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ± 9.6 % |
| 10453 | AAC | Validation (Square, 10ms, 1ms) | Test | 10.00 | ± 9.6 % |
| 10456 | AAC | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc) | WLAN | 8.63 | ± 9.6 % |
| 10457 | AAC | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | ± 9.6 % |
| 10458 | AAC | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 6.55 | ± 9.6 % |
| 10459 | AAC | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | CDMA2000 | 8.25 | ± 9.6 % |
| 10460 | AAC | UMTS-FDD (WCDMA, AMR) | WCDMA | 2.39 | ± 9.6 % |
| 10461 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10462 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.30 | ± 9.6 % |
| 10463 | AAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10465 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10466 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10467 | AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10468 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10469 | AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10470 | AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10471 | AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10472 | AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10473 | AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10474 | AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10475 | AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10477 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10478 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10479 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10480 | AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.18 | ± 9.6 % |
| 10481 | AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10482 | -19 | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.71 | ± 9.6 % |
| 10483 | AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub) | LTE-TDD | 8.39 | ± 9.6 % |
| 10484 | AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.47 | ± 9.6 % |
| | AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.59 | ± 9.6 % |
| 10485 | AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QFSK, 6L Sub) | LTE-TDD | 8.38 | ± 9.6 % |
| 10486 | AAB | The state of the s | LTE-TDD | 8.60 | ± 9.6 % |
| 10487 | AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub) | LIL-IDD | 0.00 | 1 9.0 % |

| 10488 | AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.70 | ± 9.6 % |
|-------|-----|---|---------|------|--------------------|
| 10489 | AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.31 | ± 9.6 % |
| 10490 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.41 | ± 9.6 % |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.55 | ± 9.6 % |
| 10494 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10495 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.37 | ± 9.6 % |
| 10496 | - | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| 10490 | AAE | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| 10497 | AAE | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.40 | ± 9.6 % |
| 10499 | AAE | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.68 | ± 9.6 % |
| | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| 10500 | AAF | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.44 | ± 9.6 % |
| 10501 | AAF | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 10-QAM, UL Sub) | LTE-TDD | 8.52 | ± 9.6 % |
| 10502 | AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.72 | ± 9.6 % |
| 10503 | AAB | | LTE-TDD | 8.31 | ± 9.6 % |
| 10504 | AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| 10505 | AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub) | | | |
| 10506 | AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % ± 9.6 % |
| 10507 | AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.36 | |
| 10508 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.55 | ± 9.6 % |
| 10509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.99 | ± 9.6 % |
| 10510 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.49 | ± 9.6 % |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.51 | ± 9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10513 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.42 | ± 9.6 % |
| 10514 | AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10515 | AAE | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10516 | AAE | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc) | WLAN | 1.57 | ± 9.6 % |
| 10517 | AAF | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10518 | AAF | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10519 | AAF | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10520 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc) | WLAN | 8.12 | ± 9.6 % |
| 10521 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc) | WLAN | 7.97 | ± 9.6 % |
| 10522 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10523 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc) | WLAN | 8.08 | ± 9.6 % |
| 10524 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc) | WLAN | 8.27 | ± 9.6 % |
| 10525 | AAC | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10526 | AAF | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10527 | AAF | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc) | WLAN | 8.21 | ± 9.6 % |
| 10528 | AAF | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10529 | | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10529 | AAF | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc) | WLAN | 8.43 | ± 9.6 % |
| 10531 | AAF | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10532 | AAF | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc) | WLAN | 8.38 | ± 9.6 % |
| | AAE | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10534 | AAE | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10535 | AAE | | WLAN | 8.32 | ± 9.6 % |
| 10536 | AAF | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc) | WLAN | 8.44 | ± 9.6 % |
| 10537 | AAF | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10538 | AAF | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc) | | | |
| 10540 | AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10541 | AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc) | WLAN | 8.46 | ± 9.6 % |
| 10542 | AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc) | WLAN | 8.65 | ± 9.6 % |
| 10543 | AAC | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc) | WLAN | 8.65 | ± 9.6 % |
| 10544 | AAC | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc) | WLAN | 8.47 | ± 9.6 % |
| 10545 | AAC | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 % |

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| 10546 | AAC | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc) | WLAN | 8.35 | ± 9.6 % |
|-------|-----|---|------|------|---------|
| 10547 | AAC | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10548 | AAC | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10550 | AAC | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc) | WLAN | 8.38 | ± 9.6 % |
| 10551 | AAC | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10552 | AAC | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10553 | AAC | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10554 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10555 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc) | WLAN | 8.47 | ± 9.6 % |
| 10556 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10557 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc) | WLAN | 8.52 | ± 9.6 % |
| 10558 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10560 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10561 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10562 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10563 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10564 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10565 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10566 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.13 | ± 9.6 % |
| 10567 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % |
| 10568 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10569 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc) | WLAN | 8.10 | ± 9.6 % |
| 10570 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| 10571 | AAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % |
| 10572 | AAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % |
| 10573 | AAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % |
| 10574 | AAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % |
| 10575 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10576 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10577 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10578 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10579 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10580 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10581 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10582 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10583 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10584 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10585 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10586 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10587 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10588 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10589 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10590 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10591 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc) | WLAN | 8.63 | ± 9.6 % |
| 10592 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10593 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10594 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) | WLAN | 8,74 | ± 9.6 % |
| 10595 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10596 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) | WLAN | 8.71 | ± 9.6 % |
| 10597 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| 10598 | AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10599 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10600 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) | WLAN | 8.88 | ± 9.6 % |
| 10601 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10602 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10603 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) | WLAN | 9.03 | ± 9.6 % |

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| 10604 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
|-------|-----|---|--------------|--------------|--------------------|
| 10605 | AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc) | WLAN | 8.97 | ± 9.6 % |
| 10606 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10607 | AAC | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10608 | AAC | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10609 | AAC | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10610 | AAC | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10611 | AAC | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10612 | AAC | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10613 | AAC | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10614 | AAC | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10615 | AAC | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10616 | AAC | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10617 | AAC | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10618 | AAC | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc) | WLAN | 8.58 | ± 9.6 % |
| 10619 | AAC | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10620 | | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc) | WLAN | 8.87 | ± 9.6 % |
| 10621 | AAC | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10621 | AAC | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc) | WLAN | 8.68 | ± 9.6 % |
| 10622 | AAC | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10623 | AAC | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc) | WLAN | 8.96 | ± 9.6 % |
| 10624 | AAC | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc) | WLAN | 8.96 | ± 9.6 % |
| | AAC | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10626 | AAC | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc) | WLAN | 8.88 | ± 9.6 % |
| 10627 | AAC | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc) | WLAN | 8.71 | ± 9.6 % |
| 10628 | AAC | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc) | WLAN | 8.85 | ± 9.6 % |
| 10629 | AAC | IEEE 802.11ac WIFI (60MHz, MCS4, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| 10630 | AAC | IEEE 802.11ac WIFI (60MHz, MCS4, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10631 | AAC | | WLAN | 8.74 | ± 9.6 % |
| 10632 | AAC | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10633 | AAC | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc) | WLAN | 8.80 | ± 9.6 % |
| 10634 | AAC | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10635 | AAC | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10636 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10637 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc) | | | |
| 10638 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10639 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc) | WLAN | 8.85 | ± 9.6 % |
| 10640 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc) | WLAN WLAN | 8.98 9.06 | ± 9.6 % ± 9.6 % |
| 10641 | AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc) | | | |
| 10642 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10643 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10644 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc) | WLAN | 9.05 | ± 9.6 % |
| 10645 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc) | WLAN | 9.11 | ± 9.6 % |
| 10646 | AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10647 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10648 | AAC | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ± 9.6 % |
| 10652 | AAC | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | ± 9.6 % |
| 10653 | AAC | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ± 9.6 % |
| 10654 | AAC | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | ± 9.6 % |
| 10655 | AAC | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | ± 9.6 % |
| 10658 | AAC | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ± 9.6 % |
| 10659 | AAC | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ± 9.6 % |
| 10660 | AAC | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ± 9.6 % |
| 10661 | AAC | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ± 9.6 % |
| 10662 | AAC | Pulse Waveform (200Hz, 80%) | Test | 0.97 | ± 9.6 % |
| 10670 | AAC | Bluetooth Low Energy | Bluetooth | 2.19 | ± 9.6 % |
| 10671 | AAD | IEEE 802.11ax (20MHz, MCS0, 90pc dc) | WLAN | 9.09 | ± 9.6 % |

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| 10672 | AAD | IEEE 802.11ax (20MHz, MCS1, 90pc dc) | WLAN | 8.57 | ± 9.6 % |
|-------|-----|---------------------------------------|------|------|---------|
| 10673 | AAD | IEEE 802.11ax (20MHz, MCS2, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10674 | AAD | IEEE 802.11ax (20MHz, MCS3, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10675 | AAD | IEEE 802.11ax (20MHz, MCS4, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| 10676 | | IEEE 802.11ax (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10677 | AAD | IEEE 802.11ax (20MHz, MCS6, 90pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10678 | AAD | IEEE 802.11ax (20MHz, MCS7, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10679 | AAD | IEEE 802.11ax (20MHz, MCS8, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| | AAD | IEEE 802.11ax (20MHz, MCS9, 90pc dc) | WLAN | 8.80 | ± 9.6 % |
| 10680 | AAD | IEEE 802.11ax (20MHz, MCS10, 90pc dc) | WLAN | 8,62 | ± 9.6 % |
| 10681 | AAG | IEEE 802.11ax (20MHz, MCS11, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10682 | AAF | IEEE 802.11ax (20MHz, MCS0, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10683 | AAA | IEEE 802.11ax (20MHz, MCS1, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| 10684 | AAC | IEEE 802.11ax (20MHz, MCS1, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10685 | AAC | IEEE 802.11ax (20MHz, MCS3, 99pc dc) | WLAN | 8.28 | ± 9.6 % |
| 10686 | AAC | | WLAN | 8.45 | ± 9.6 % |
| 10687 | AAE | IEEE 802.11ax (20MHz, MCS4, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10688 | AAE | IEEE 802.11ax (20MHz, MCS5, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10689 | AAD | IEEE 802.11ax (20MHz, MCS6, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10690 | AAE | IEEE 802.11ax (20MHz, MCS7, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10691 | AAB | IEEE 802.11ax (20MHz, MCS8, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10692 | AAA | IEEE 802.11ax (20MHz, MCS9, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10693 | AAA | IEEE 802.11ax (20MHz, MCS10, 99pc dc) | | 8.57 | ± 9.6 % |
| 10694 | AAA | IEEE 802.11ax (20MHz, MCS11, 99pc dc) | WLAN | | ± 9.6 % |
| 10695 | AAA | IEEE 802.11ax (40MHz, MCS0, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10696 | AAA | IEEE 802.11ax (40MHz, MCS1, 90pc dc) | WLAN | 8.91 | |
| 10697 | AAA | IEEE 802.11ax (40MHz, MCS2, 90pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10698 | AAA | IEEE 802.11ax (40MHz, MCS3, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10699 | AAA | IEEE 802.11ax (40MHz, MCS4, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10700 | AAA | IEEE 802.11ax (40MHz, MCS5, 90pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10701 | AAA | IEEE 802.11ax (40MHz, MCS6, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10702 | AAA | IEEE 802.11ax (40MHz, MCS7, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10703 | AAA | IEEE 802.11ax (40MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10704 | AAA | IEEE 802.11ax (40MHz, MCS9, 90pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10705 | AAA | IEEE 802.11ax (40MHz, MCS10, 90pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10706 | AAC | IEEE 802.11ax (40MHz, MCS11, 90pc dc) | WLAN | 8.66 | ± 9.6 % |
| 10707 | AAC | IEEE 802.11ax (40MHz, MCS0, 99pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10708 | AAC | IEEE 802.11ax (40MHz, MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10709 | AAC | IEEE 802.11ax (40MHz, MCS2, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10710 | AAC | IEEE 802.11ax (40MHz, MCS3, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10711 | AAC | IEEE 802.11ax (40MHz, MCS4, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10712 | AAC | IEEE 802.11ax (40MHz, MCS5, 99pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10713 | AAC | IEEE 802.11ax (40MHz, MCS6, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10714 | AAC | IEEE 802.11ax (40MHz, MCS7, 99pc dc) | WLAN | 8.26 | ± 9.6 % |
| 10715 | AAC | IEEE 802.11ax (40MHz, MCS8, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10716 | AAC | IEEE 802.11ax (40MHz, MCS9, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| 10717 | AAC | IEEE 802.11ax (40MHz, MCS10, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10718 | AAC | IEEE 802.11ax (40MHz, MCS11, 99pc dc) | WLAN | 8.24 | ± 9.6 % |
| 10719 | AAC | IEEE 802,11ax (80MHz, MCS0, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10720 | AAC | IEEE 802.11ax (80MHz, MCS1, 90pc dc) | WLAN | 8.87 | ± 9.6 % |
| 10721 | AAC | IEEE 802.11ax (80MHz, MCS2, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10722 | AAC | IEEE 802.11ax (80MHz, MCS3, 90pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10723 | AAC | IEEE 802.11ax (80MHz, MCS4, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10724 | AAC | IEEE 802.11ax (80MHz, MCS5, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| 10725 | AAC | IEEE 802.11ax (80MHz, MCS6, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10726 | AAC | IEEE 802.11ax (80MHz, MCS7, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| 10727 | AAC | IEEE 802.11ax (80MHz, MCS8, 90pc dc) | WLAN | 8.66 | ± 9.6 % |

| 10728 | AAC | IEEE 802.11ax (80MHz, MCS9, 90pc dc) | WLAN | 8.65 | ± 9.6 % |
|-------|-----|---|---------------|------|---------|
| 10729 | AAC | IEEE 802.11ax (80MHz, MCS10, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10730 | AAC | IEEE 802.11ax (80MHz, MCS11, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10731 | AAC | IEEE 802.11ax (80MHz, MCS0, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10732 | AAC | IEEE 802.11ax (80MHz, MCS1, 99pc dc) | WLAN | 8.46 | ± 9.6 % |
| 10732 | | IEEE 802.11ax (80MHz, MCS2, 99pc dc) | WLAN | 8.40 | ± 9.6 % |
| 10734 | AAC | IEEE 802.11ax (80MHz, MCS3, 99pc dc) | WLAN | 8.25 | ± 9.6 % |
| 10734 | AAC | IEEE 802.11ax (80MHz, MCS4, 99pc dc) | WLAN | 8.33 | ± 9.6 % |
| 10736 | AAC | IEEE 802.11ax (80MHz, MCS5, 99pc dc) | WLAN | 8.27 | ± 9.6 % |
| 10737 | AAC | IEEE 802.11ax (80MHz, MCS6, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10737 | AAC | IEEE 802.11ax (80MHz, MCS7, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10739 | AAC | IEEE 802.11ax (80MHz, MCS8, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10739 | AAC | IEEE 802.11ax (80MHz, MCS9, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| | AAC | IEEE 802.11ax (80MHz, MCS10, 99pc dc) | WLAN | 8.40 | ± 9.6 % |
| 10741 | AAC | IEEE 802.11ax (80MHz, MCS10, 99pc dc) | WLAN | 8.43 | ± 9.6 % |
| 10742 | AAC | IEEE 802.11ax (80MHz, MCS11, 99pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10743 | AAC | IEEE 802.11ax (160MHz, MCS0, 90pc dc) | WLAN | 9.16 | ± 9.6 % |
| 10744 | AAC | | WLAN | 8.93 | ± 9.6 % |
| 10745 | AAC | IEEE 802.11ax (160MHz, MCS2, 90pc dc) | WLAN | 9.11 | ± 9.6 % |
| 10746 | AAC | IEEE 802.11ax (160MHz, MCS3, 90pc dc) | WLAN | 9.11 | ± 9.6 % |
| 10747 | AAC | IEEE 802.11ax (160MHz, MCS4, 90pc dc) | WLAN | 8.93 | ± 9.6 % |
| 10748 | AAC | IEEE 802.11ax (160MHz, MCS5, 90pc dc) | WLAN | 8.90 | ± 9.6 % |
| 10749 | AAC | IEEE 802.11ax (160MHz, MCS6, 90pc dc) | | | ± 9.6 % |
| 10750 | AAC | IEEE 802.11ax (160MHz, MCS7, 90pc dc) | WLAN | 8.79 | |
| 10751 | AAC | IEEE 802.11ax (160MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10752 | AAC | IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10753 | AAC | IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN | 9.00 | ± 9.6 % |
| 10754 | AAC | IEEE 802.11ax (160MHz, MCS11, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10755 | AAC | IEEE 802.11ax (160MHz, MCS0, 99pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10756 | AAC | IEEE 802.11ax (160MHz, MCS1, 99pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10757 | AAC | IEEE 802.11ax (160MHz, MCS2, 99pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10758 | AAC | IEEE 802.11ax (160MHz, MCS3, 99pc dc) | WLAN | 8.69 | ± 9.6 % |
| 10759 | AAC | IEEE 802.11ax (160MHz, MCS4, 99pc dc) | WLAN | 8.58 | ± 9.6 % |
| 10760 | AAC | IEEE 802.11ax (160MHz, MCS5, 99pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10761 | AAC | IEEE 802.11ax (160MHz, MCS6, 99pc dc) | WLAN | 8.58 | ± 9.6 % |
| 10762 | AAC | IEEE 802.11ax (160MHz, MCS7, 99pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10763 | AAC | IEEE 802.11ax (160MHz, MCS8, 99pc dc) | WLAN | 8.53 | ± 9.6 % |
| 10764 | AAC | IEEE 802.11ax (160MHz, MCS9, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10765 | AAC | IEEE 802.11ax (160MHz, MCS10, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10766 | AAC | IEEE 802.11ax (160MHz, MCS11, 99pc dc) | WLAN | 8.51 | ± 9.6 % |
| 10767 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | ± 9.6 % |
| 10768 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10769 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10770 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10771 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10772 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.23 | ± 9.6 % |
| 10773 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | ± 9.6 % |
| 10774 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10775 | AAC | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ± 9.6 % |
| 10776 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10777 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10778 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10780 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| 10781 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| 10782 | _ | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10102 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ± 9.6 % |

| 10784 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ± 9.6 % |
|-------|-----|---|--------------------------------|------|---------|
| 10785 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10786 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10787 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ± 9.6 % |
| 10788 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10789 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10790 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10791 | _ | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.83 | ± 9.6 % |
| 10791 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.92 | ± 9.6 % |
| 10793 | _ | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.95 | ± 9.6 % |
| 10794 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10795 | _ | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.84 | ± 9.6 % |
| 10796 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10790 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10798 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10798 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10801 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10802 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10803 | AAE | 5G NR (CP-OFDM, 1 KB, 100 MHz, QFSK, 30 KHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10805 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10809 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 MHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10810 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10812 | AAD | | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10817 | AAD | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10818 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.33 | ± 9.6 % |
| 10819 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10820 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ± 9.6 % |
| 10821 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | |
| 10822 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | | 8.41 | ± 9.6 % |
| 10823 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10824 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10825 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | | 8.41 | ± 9.6 % |
| 10827 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10828 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) | | 8.43 | ± 9.6 % |
| 10829 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10830 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.63 | ± 9.6 % |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.73 | ± 9.6 % |
| 10832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.74 | ± 9.6 % |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10834 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.75 | ± 9.6 % |
| 10835 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10836 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.66 | ± 9.6 % |
| 10837 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.68 | ± 9.6 % |
| 10839 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10840 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.67 | ± 9.6 % |
| 10841 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.71 | ± 9.6 % |
| 10843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.49 | ± 9.6 % |
| 10844 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10846 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10854 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10856 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10858 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10859 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |

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| 10860 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
|-------|-----|--|---------------|------|--------------------|
| 10861 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10863 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10864 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10865 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10866 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10868 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10870 | | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.86 | ± 9.6 % |
| 10870 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10873 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10875 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.39 | ± 9.6 % |
| 10876 | AAD | | 5G NR FR2 TDD | 7.95 | ± 9.6 % |
| 10877 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | | ± 9.6 % |
| 10879 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | | 8.12 | |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ± 9.6 % |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10886 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10887 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.35 | ± 9.6 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.02 | ± 9.6 % |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.13 | ± 9.6 % |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10897 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10909 | - | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10909 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10910 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10911 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10912 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QFSK, 30 KHz) | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10914 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10915 | AAD | | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10916 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | | | |
| 10917 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |

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| 10922 | I AAD | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.82 | ± 9.6 % |
|-------|-------|---|---------------|-------|---------|
| 10922 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10924 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10927 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10929 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10934 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10939 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10940 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.89 | ± 9.6 % |
| 10941 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10942 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10943 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.95 | ± 9.6 % |
| 10944 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.81 | ± 9.6 % |
| 10945 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10951 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | ± 9.6 % |
| 10952 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.25 | ± 9.6 % |
| 10953 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.15 | ± 9.6 % |
| 10954 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.23 | ± 9.6 % |
| 10955 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.42 | ± 9.6 % |
| 10956 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.14 | ± 9.6 % |
| 10957 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | ± 9.6 % |
| 10958 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.61 | ± 9.6 % |
| 10959 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.33 | ± 9.6 % |
| 10960 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.32 | ± 9.6 % |
| 10961 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.36 | ± 9.6 % |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.40 | ± 9.6 % |
| 10963 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10964 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.29 | ± 9.6 % |
| 10965 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.37 | ± 9.6 % |
| 10966 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10967 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.42 | ± 9.6 % |
| 10968 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | ± 9.6 % |
| 10972 | AAB | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 11.59 | ± 9.6 % |
| 10973 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 9.06 | ± 9.6 % |
| 10974 | AAB | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) | 5G NR FR1 TDD | 10.28 | ± 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.

Calibration Laboratory of

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





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Client

B.V. ADT (Auden)

Certificate No: EX3-7472_Aug20

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7472

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date:

August 24, 2020

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 01-Apr-20 (No. 217-03100/03101) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103244 | 01-Apr-20 (No. 217-03100) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103245 | 01-Apr-20 (No. 217-03101) | Apr-21 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 31-Mar-20 (No. 217-03106) | Apr-21 |
| DAE4 | SN: 660 | 27-Dec-19 (No. DAE4-660_Dec19) | Dec-20 |
| Reference Probe ES3DV2 | SN: 3013 | 31-Dec-19 (No. ES3-3013_Dec19) | Dec-20 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-20) | In house check: Jun-22 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-20) | In house check: Jun-22 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-19) | In house check: Oct-20 |

Calibrated by:

Name
Function
Signature

Jeton Kastrati
Laboratory Technician

Approved by:

Katja Pokovic
Technical Manager

Issued: August 25, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

TSL tissue simulating liquid NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization φ φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) 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 ϑ = 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 (no uncertainty required). 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 * ConvF 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).

EX3DV4 - SN:7472

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|--|----------|----------|----------|-----------|
| Norm (μV/(V/m) ²) ^A | 0.58 | 0.49 | 0.42 | ± 10.1 % |
| DCP (mV) ^B | 95.9 | 98.4 | 100.2 | |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dBõV | С | D dB | VR mV | Max dev. | Max Unc ^E (k=2) |
|--------|-----------------------------|---|---------|-----------|-------|---------|----------|-------------|----------------------------------|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 179.6 | ± 3.0 % | ± 4.7 % |
| | | Υ | 0.00 | 0.00 | 1.00 | 1 | 187.5 | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 198.7 | 1 | |
| 10352- | Pulse Waveform (200Hz, 10%) | X | 20.00 | 96.07 | 23.22 | 10.00 | 60.0 | ± 3.3 % | ± 9.6 % |
| AAA | | Υ | 2.26 | 65.30 | 9.82 | | 60.0 |] | |
| | | Z | 3.00 | 67.85 | 11.16 | | 60.0 | | |
| 10353- | Pulse Waveform (200Hz, 20%) | X | 20.00 | 107.24 | 27.73 | 6.99 | 80.0 | ± 2.4 % | ± 9.6 % |
| AAA | | Υ | 1.47 | 65.03 | 8.85 | | 80.0 | | |
| | | Z | 2.10 | 68.26 | 10.42 | | 80.0 | 1 | |
| 10354- | Pulse Waveform (200Hz, 40%) | X | 20.00 | 136.93 | 40.23 | 3.98 | 95.0 | ± 2.3 % | ± 9.6 % |
| AAA | | Υ | 20.00 | 86.48 | 14.57 | | 95.0 | | |
| water | | Z | 13.45 | 85.18 | 14.54 | | 95.0 | | |
| 10355- | Pulse Waveform (200Hz, 60%) | X | 20.00 | 152.13 | 45.41 | 2.22 | 120.0 | ± 2.1 % | ± 9.6 % |
| AAA | | Υ | 20.00 | 102.32 | 20.70 | | 120.0 |] | |
| | | Z | 20.00 | 93.94 | 16.89 | | 120.0 |] | |
| 10387- | QPSK Waveform, 1 MHz | Х | 2.13 | 70.07 | 17.80 | 1.00 | 150.0 | ± 2.2 % | ± 9.6 % |
| AAA | | Υ | 1.93 | 69.70 | 17.02 | | 150.0 |] | |
| | | Z | 1.54 | 65.58 | 14.39 | | 150.0 | | |
| 10388- | QPSK Waveform, 10 MHz | X | 2.97 | 72.85 | 18.60 | 0.00 | 150.0 | ± 2.0 % | ± 9.6 % |
| AAA | | Υ | 2.45 | 70.03 | 17.25 | | 150.0 | | |
| | | Z | 2.04 | 66.67 | 15.09 | | 150.0 | | |
| 10396- | 64-QAM Waveform, 100 kHz | X | 2.95 | 71.14 | 20.06 | 3.01 | 150.0 | ± 2.3 % | ± 9.6 % |
| AAA | | Υ | 2.11 | 66.70 | 18.11 | | 150.0 | | |
| | | Z | 2.34 | 68.06 | 17.77 | | 150.0 | | |
| 10399- | 64-QAM Waveform, 40 MHz | Х | 3.81 | 68.51 | 16.93 | 0.00 | 150.0 | ± 2.1 % | ± 9.6 % |
| AAA | | Υ | 3.63 | 67.80 | 16.47 | | 150.0 | | |
| | | Z | 3.43 | 66.65 | 15.52 | | 150.0 | | |
| 10414- | WLAN CCDF, 64-QAM, 40MHz | X | 5.05 | 66.07 | 16.11 | 0.00 | 150.0 | ± 1.9 % | ± 9.6 % |
| AAA | | Υ | 4.89 | 65.99 | 15.98 | | 150.0 | | |
| | | Z | 4.77 | 65.56 | 15.47 | | 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%.

The uncertainties of Norm X,Y,Z do not affect the E^2 -field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter: uncertainty not required.

E 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:7472

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

Sensor Model Parameters

| | C1 fF | C2 fF | α V ⁻¹ | T1 ms.V ⁻² | T2 ms.V ⁻¹ | T3 ms | T4 V ⁻² | T5 V ⁻¹ | Т6 |
|---|----------|----------|----------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|------|
| X | 51.4 | 392.73 | 37.40 | 10.92 | 0.00 | 5.10 | 0.00 | 0.40 | 1.01 |
| Υ | 37.7 | 286.14 | 36.77 | 5.39 | 0.00 | 4.96 | 0.00 | 0.16 | 1.01 |
| Z | 36.8 | 274.17 | 35.42 | 3.20 | 0.00 | 4.98 | 1.47 | 0.00 | 1.01 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle (°) | -94.9 |
| 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.

EX3DV4-SN:7472

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 750 | 41.9 | 0.89 | 10.54 | 10.54 | 10.54 | 0.23 | 0.80 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 10.11 | 10.11 | 10.11 | 0.34 | 0.95 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.92 | 9.92 | 9.92 | 0.32 | 0.80 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 8.94 | 8.94 | 8.94 | 0.36 | 0.80 | ± 12.0 % |
| 1640 | 40.2 | 1.31 | 8.80 | 8.80 | 8.80 | 0.34 | 0.80 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.74 | 8.74 | 8.74 | 0.30 | 0.87 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 8.35 | 8.35 | 8.35 | 0.35 | 0.87 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 8.17 | 8.17 | 8.17 | 0.31 | 0.87 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 7.94 | 7.94 | 7.94 | 0.33 | 0.95 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.69 | 7.69 | 7.69 | 0.38 | 0.95 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 7.53 | 7.53 | 7.53 | 0.28 | 0.95 | ± 12.0 % |
| 3300 | 38.2 | 2.71 | 7.20 | 7.20 | 7.20 | 0.35 | 1.35 | ± 13.1 % |
| 3500 | 37.9 | 2.91 | 7.10 | 7.10 | 7.10 | 0.35 | 1.35 | ± 13.1 % |
| 3700 | 37.7 | 3.12 | 7.07 | 7.07 | 7.07 | 0.40 | 1.35 | ± 13.1 % |
| 3900 | 37.5 | 3.32 | 6.87 | 6.87 | 6.87 | 0.40 | 1.60 | ± 13.1 % |
| 4100 | 37.2 | 3.53 | 6.60 | 6.60 | 6.60 | 0.40 | 1.60 | ± 13.1 % |
| 4200 | 37.1 | 3.63 | 6.57 | 6.57 | 6.57 | 0.40 | 1.60 | ± 13.1 % |
| 4400 | 36.9 | 3.84 | 6.40 | 6.40 | 6.40 | 0.40 | 1.70 | ± 13.1 % |
| 4600 | 36.7 | 4.04 | 6.36 | 6.36 | 6.36 | 0.40 | 1.70 | ± 13.1 % |
| 4800 | 36.4 | 4.25 | 6.26 | 6.26 | 6.26 | 0.40 | 1.80 | ± 13.1 % |
| 4950 | 36.3 | 4.40 | 5.97 | 5.97 | 5.97 | 0.40 | 1.80 | ± 13.1 % |
| 5250 | 35.9 | 4.71 | 5.72 | 5.72 | 5.72 | 0.40 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 5.04 | 5.04 | 5.04 | 0.40 | 1.80 | ± 13.1 % |
| 5750 | 35.4 | 5.22 | 5.25 | 5.25 | 5.25 | 0.40 | 1.80 | ± 13.1 % |

^c 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 assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G 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 boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 6500 | 34.5 | 6.07 | 5.70 | 5.70 | 5.70 | 0.15 | 2.00 | ± 18.6 % |

^c Calibration procedure for frequencies above 6 GHz is pending accreditation. Frequency validity above 6GHz is \pm 700 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

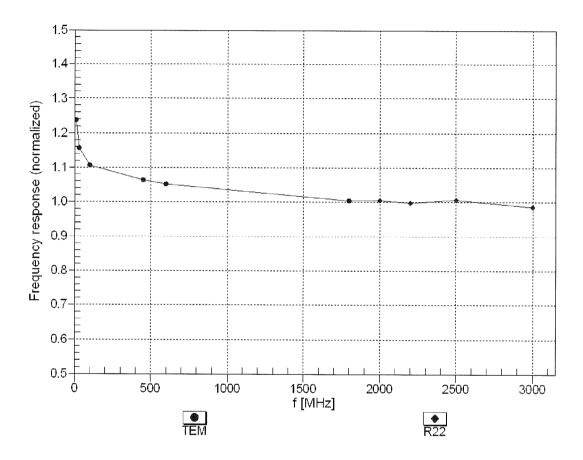
F At frequencies 6-10 GHz, the validity of tissue parameters (s and o) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

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; below ± 2% for frequencies between 3-6 GHz; and below ± 4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

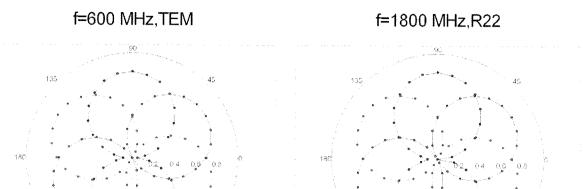
(TEM-Cell:ifi110 EXX, Waveguide: R22)



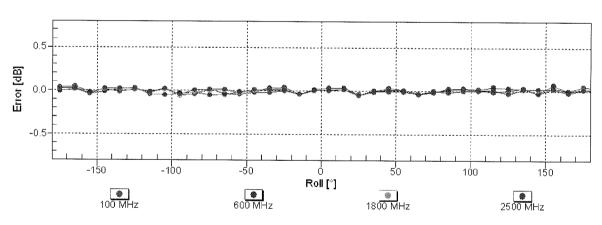
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Tot

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

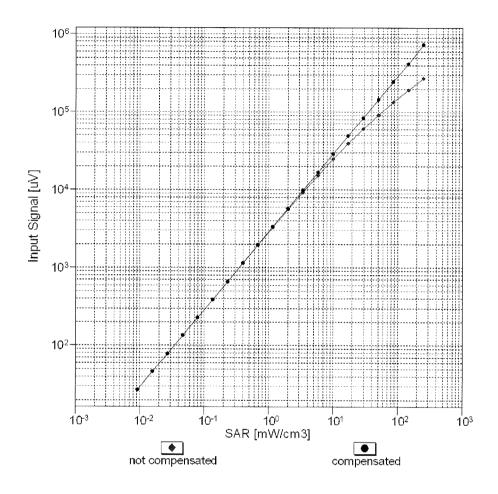


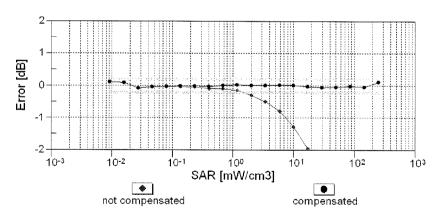
Tot



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

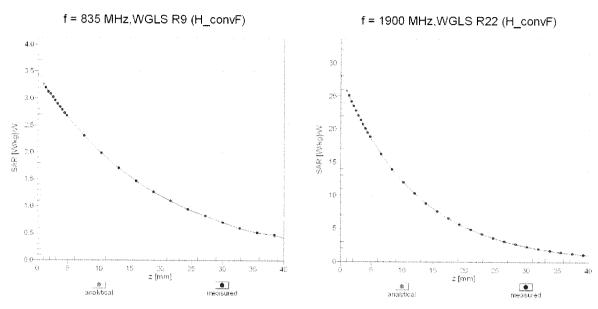
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



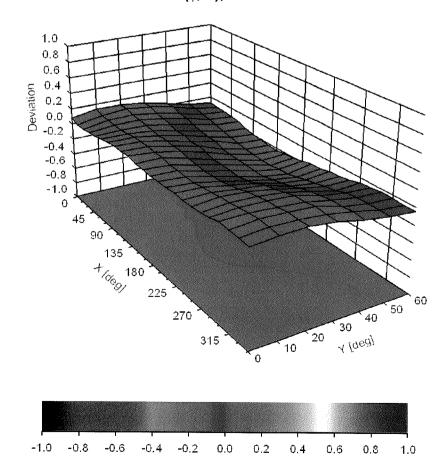


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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Appendix: Modulation Calibration Parameters

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E (k=2) |
|----------------|-----|---|--------------|--------------|---------------------------|
| 0 | | CW | CW | 0.00 | ± 4.7 % |
| 10010 | CAA | SAR Validation (Square, 100ms, 10ms) | Test | 10.00 | ± 9.6 % |
| 10011 | CAB | 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 10023 | DAC | GSM-FDD (TDMA, GMSK) | GSM | 9.39 | ± 9.6 % |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | ± 9.6 % |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 6.56 | ± 9.6 % |
| 10026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 12.62 | ± 9.6 % |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 9.55 | ± 9.6 % |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM GSM | 4.80 | ± 9.6 % |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | GSM | 3.55 | ± 9.6 % |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | Bluetooth | 7.78 | ± 9.6 % |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 5.30 | ± 9.6 % |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | Bluetooth | 1.87 | ± 9.6 % |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | ± 9.6 % |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | Bluetooth | 4.53 | ± 9.6 % ± 9.6 % |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | Bluetooth | 3.83 | ± 9.6 % |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ± 9.6 % |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | ± 9.6 % |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | ± 9.6 % |
| 10039 | CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | ± 9.6 % |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS | 7.78 | ± 9.6 % |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | ± 9.6 % |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 13.80 | ± 9.6 % |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | DECT | 10.79 | ± 9.6 % |
| 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 | ± 9.6 % |
| 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 10063 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | ± 9.6 % |
| 10063 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | WLAN | 8.63 | ± 9.6 % |
| 10064 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | ± 9.6 % |
| 10066 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.00 | ± 9.6 % |
| 10067 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ± 9.6 % |
| 10068 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | WLAN | 10.12 | ± 9.6 % |
| 10069 | CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | WLAN | 10.24 | ± 9.6 % |
| 10071 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN WLAN | 10.56 | ± 9.6 % |
| 10072 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | WLAN | 9.83 | ± 9.6 % |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 9.62 9.94 | ± 9.6 % |
| 10074 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | WLAN | 10.30 | ± 9.6 % ± 9.6 % |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | ± 9.6 % |
| 10076 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | WLAN | 10.94 | ± 9.6 % |
| 10077 | CAB | 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, PI/4-DQPSK, Fullrate) | AMPS | 4.77 | ± 9.6 % |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | GSM | 6.56 | ± 9.6 % |
| 10097 | CAB | UMTS-FDD (HSDPA) | WCDMA | 3.98 | ± 9.6 % |
| 10098 | CAB | UMTS-FDD (HSUPA, Subtest 2) | WCDMA | 3.98 | ± 9.6 % |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | ± 9.6 % |
| 10100 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | ± 9.6 % |
| 10101 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ± 9.6 % |
| 10102 | CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10103 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TDD | 9.29 | ± 9.6 % |
| 10104 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ± 9.6 % |
| 10105 | CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.01 | ± 9.6 % |
| 10108 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | 5.80 | ± 9.6 % |

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| 40400 | T 0 : 5 | 1 | | | |
|----------------|---------|---|--------------------|--------------|---------|
| 10109 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10110 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| 10111 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.44 | ± 9.6 % |
| 10112 | CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.59 | ± 9.6 % |
| 10113 | CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.62 | ± 9.6 % |
| 10114 | CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | WLAN | 8.10 | ± 9.6 % |
| 10115 | CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | ± 9.6 % |
| 10116 | CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8.15 | ± 9.6 % |
| 10117 | CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | ± 9.6 % |
| 10118 | CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) | WLAN | 8.59 | ± 9.6 % |
| 10119 | CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10140 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10141 | CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | ± 9.6 % |
| 10142 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ± 9.6 % |
| 10143 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | ± 9.6 % |
| 10144 | CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.65 | ± 9.6 % |
| 10145 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | ± 9.6 % |
| 10146 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ± 9.6 % |
| 10147 | CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.72 | ± 9.6 % |
| 10149 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ± 9.6 % |
| 10150 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ± 9.6 % |
| 10151 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | ± 9.6 % |
| 10152 10153 | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| | CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | ± 9.6 % |
| 10154 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | ± 9.6 % |
| 10155 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10156 10157 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5.79 | ± 9.6 % |
| | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ± 9.6 % |
| 10158 | CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ± 9.6 % |
| 10159 10160 | CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.56 | ± 9.6 % |
| 10160 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FDD | 5.82 | ± 9.6 % |
| 10161 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.43 | ± 9.6 % |
| 10162 | CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.58 | ± 9.6 % |
| 10166 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.46 | ± 9.6 % |
| 10167 | CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.21 | ± 9.6 % |
| 10169 | CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 6.79 | ± 9.6 % |
| 10109 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FDD | 5.73 | ± 9.6 % |
| 10170 | AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10171 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 6.49 | ± 9.6 % |
| 10172 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TDD | 9.21 | ± 9.6 % |
| 10173 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10175 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 10.25 | ± 9.6 % |
| 10176 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 5.72 | ± 9.6 % |
| 10177 | CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-FDD | 6.52 | ± 9.6 % |
| 10178 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-FDD | 5.73 | ± 9.6 % |
| 10179 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10180 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-FDD | 6.50 | ± 9.6 % |
| 10181 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | | 6.50 | ± 9.6 % |
| 10182 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-FDD LTE-FDD | 5.72 | ± 9.6 % |
| 10183 | AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10184 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-FDD | 6.50 | ± 9.6 % |
| 10185 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-FDD | 5.73 | ± 9.6 % |
| 10186 | AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDD | 6.51 | ± 9.6 % |
| 10187 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FDD | 6.50 | ± 9.6 % |
| 10188 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 5.73 | ± 9.6 % |
| 10189 | AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.52 | ± 9.6 % |
| 10193 | CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 6.50 | ± 9.6 % |
| 10194 | CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.09 | ± 9.6 % |
| 10195 | CAC | IEEE 802.11n (HT Greenfield, 55 Mbps, 64-QAM) | WLAN | 8.12 | ± 9.6 % |
| 10196 | CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.21 | ± 9.6 % |
| 10197 | CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.10 | ± 9.6 % |
| 10198 | CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.13 8.27 | ± 9.6 % |
| 10219 | CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | ± 9.6 % |
| | | ((mopo) of Orly | AAFUIA | 0.03 | ± 9.6 % |

| 10220 | CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | I MI ANI | 1 0 10 | |
|-------|----------|---|----------|--------|---------|
| 10220 | CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | ± 9.6 % |
| 10222 | CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | ± 9.6 % |
| 10223 | CAC | IEEE 802.11n (HT Mixed, 13 Mbps, BFSK) | WLAN | 8.06 | ± 9.6 % |
| 10224 | CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | WLAN | 8.48 | ± 9.6 % |
| 10225 | CAB | UMTS-FDD (HSPA+) | WLAN | 8.08 | ± 9.6 % |
| 10225 | CAB | | WCDMA | 5.97 | ± 9.6 % |
| 10227 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.49 | ± 9.6 % |
| 10227 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ± 9.6 % |
| 10229 | CAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TDD | 9.22 | ± 9.6 % |
| 10229 | CAD | · · · · · · · · · · · · · · · · · · · | LTE-TDD | 9.48 | ± 9.6 % |
| 10230 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDD | 10.25 | ± 9.6 % |
| 10231 | CAG | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TDD | 9.19 | ± 9.6 % |
| 10232 | CAG | | LTE-TDD | 9.48 | ± 9.6 % |
| 10233 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10234 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10235 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10237 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10237 | CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10238 | | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-TDD | 9.48 | ± 9.6 % |
| 10239 | CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | ± 9.6 % |
| 10240 | | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | ± 9.6 % |
| 10241 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | ± 9.6 % |
| 10242 | CAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | ± 9.6 % |
| 10243 | CAD | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TOD | 9.46 | ± 9.6 % |
| 10244 | CAD | | LTE-TDD | 10.06 | ± 9.6 % |
| 10245 | CAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDD | 9.30 | ± 9.6 % |
| 10247 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | ± 9.6 % |
| 10248 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.09 | ± 9.6 % |
| 10249 | CAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.29 | ± 9.6 % |
| 10250 | CAG | LTE-TDD (SC-PDMA, 50% RB, 10 MHz, 16-QAM) LTE-TDD (SC-PDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 9.81 | ± 9.6 % |
| 10251 | CAG | | LTE-TDD | 10.17 | ± 9.6 % |
| 10252 | CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TDD | 9.24 | ± 9.6 % |
| 10253 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-TDD | 9.90 | ± 9.6 % |
| 10255 | CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 10.14 | ± 9.6 % |
| 10256 | CAB | | LTE-TDD | 9.20 | ± 9.6 % |
| 10257 | CAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.96 | ± 9.6 % |
| 10257 | CAB | | LTE-TDD | 10.08 | ± 9.6 % |
| 10259 | CAD | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.34 | ± 9.6 % |
| 10239 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TDD | 9.98 | ± 9.6 % |
| 10260 | CAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-TDD | 9.97 | ± 9.6 % |
| 10261 | CAG | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TDD | 9.24 | ± 9.6 % |
| 10262 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.83 | ± 9.6 % |
| 10263 | | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.16 | ± 9.6 % |
| 10264 | CAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-TDD | 9.23 | ± 9.6 % |
| 10265 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.92 | ± 9.6 % |
| 10266 | CAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDD | 10.07 | ± 9.6 % |
| 10267 | CAG | | LTE-TDD | 9.30 | ± 9.6 % |
| 10269 | CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.06 | ± 9.6 % |
| 10269 | CAF | | LTE-TDD | 10.13 | ± 9.6 % |
| 10270 | CAP | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9.58 | ± 9.6 % |
| 10274 | CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | ± 9.6 % |
| 10273 | CAA | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) PHS (QPSK) | WCDMA | 3.96 | ± 9.6 % |
| 10277 | CAA | PHS (QPSK) PHS (QPSK, BW 884MHz, Rolloff 0.5) | PHS | 11.81 | ± 9.6 % |
| 10278 | CAA | | PHS | 11.81 | ± 9.6 % |
| 10279 | AAB | PHS (QPSK, BW 884MHz, Rolloff 0.38) CDMA2000, RC1, SO55, Full Rate | PHS | 12.18 | ± 9.6 % |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.91 | ± 9.6 % |
| 10291 | AAB | CDMA2000, RC3, SO35, Full Rate CDMA2000, RC3, SO32, Full Rate | CDMA2000 | 3.46 | ± 9.6 % |
| 10292 | AAB | CDMA2000, RC3, SO32, Full Rate CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.39 | ± 9.6 % |
| 10295 | AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | CDMA2000 | 3.50 | ± 9.6 % |
| 10293 | AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | CDMA2000 | 12.49 | ± 9.6 % |
| 10297 | AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-FDD | 5.81 | ± 9.6 % |
| 10299 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-FDD | 5.72 | ± 9.6 % |
| 10200 | _ / \/\U | LILIDD (00-1 DIVIA, 30 /0 ND, 3 WITZ, 10-QAIVI) | LTE-FDD | 6.39 | ± 9.6 % |

| 10300 | AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE EDD | T 0.00 | 10000 |
|----------------|-----|--|----------------------|--------------|--------------------|
| 10300 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | LTE-FDD WiMAX | 6.60 | ± 9.6 % |
| 10301 | AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | WiMAX | 12.03 | ± 9.6 % |
| 10302 | AAA | IEEE 802.16e WIMAX (29.18, 5ms, 10MHz, QPSK, PUSC, 3CTRL) | | 12.57 | ± 9.6 % |
| 10303 | AAA | IEEE 802.16e WIMAX (31.13, 311s, 10MHz, 64QAM, PUSC) | WiMAX | 12.52 | ± 9.6 % |
| 10304 | AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 11.86 | ± 9.6 % |
| 10305 | AAA | | WiMAX | 15.24 | ± 9.6 % |
| 10306 | | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC) | WiMAX | 14.67 | ± 9.6 % |
| | AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC) | WiMAX | 14.49 | ± 9.6 % |
| 10308 | AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) | WiMAX | 14.46 | ± 9.6 % |
| 10309 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3) | WiMAX | 14.58 | ± 9.6 % |
| 10310 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3 | WiMAX | 14.57 | ± 9.6 % |
| 10311 | AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDD | 6.06 | ± 9.6 % |
| 10313 | AAA | IDEN 1:3 | iDEN | 10.51 | ± 9.6 % |
| 10314 | AAA | IDEN 1:6 | iDEN | 13.48 | ± 9.6 % |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc) | WLAN | 1.71 | ± 9.6 % |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10317 | AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10352 | AAA | Pulse Waveform (200Hz, 10%) | Generic | 10.00 | ± 9.6 % |
| 10353 | AAA | Pulse Waveform (200Hz, 20%) | Generic | 6.99 | ± 9.6 % |
| 10354 | AAA | Pulse Waveform (200Hz, 40%) | Generic | 3.98 | ± 9.6 % |
| 10355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 2.22 | ± 9.6 % |
| 10356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 0.97 | ± 9.6 % |
| 10387 | AAA | QPSK Waveform, 1 MHz | Generic | 5.10 | ± 9.6 % |
| 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 | ± 9.6 % |
| 10400 | AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10401 | AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc) | WLAN | 8.60 | ± 9.6 % |
| 10402 | AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc) | WLAN | 8.53 | ± 9.6 % |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 3.76 | ± 9.6 % |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | ± 9.6 % |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ± 9.6 % |
| 10410 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9) | LTE-TDD | 7.82 | ± 9.6 % |
| 10414 | AAA | WLAN CCDF, 64-QAM, 40MHz | Generic | 8.54 | ± 9.6 % |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc) | WLAN | 1.54 | ± 9.6 % |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10417 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long) | WLAN | 8.14 | ± 9.6 % |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short) | WLAN | 8.19 | ± 9.6 % |
| 10422 | AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | ± 9.6 % |
| 10423 | AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | ± 9.6 % |
| 10424 | AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | ± 9.6 % |
| 10425 | AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ± 9.6 % |
| 10426 | AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | WLAN | 8.45 | ± 9.6 % |
| 10427 | AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN | 8.41 | ± 9.6 % |
| 10430 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | ± 9.6 % |
| 10431 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8.38 | ± 9.6 % |
| 10432 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) | LTE-FDD | 8.34 | ± 9.6 % |
| 10433 | AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | LTE-FDD | 8.34 | ± 9.6 % |
| 10434 | AAA | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | ± 9.6 % ± 9.6 % |
| 10435 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % ± 9.6 % |
| 10447 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | | |
| 10448 | AAD | LTE-FDD (OFDMA, 3 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 7.53 | ± 9.6 % |
| 10449 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) | LTE-FDD | 7.53 7.51 | ± 9.6 % |
| 10443 | AAC | LTE-FDD (OFDMA, 13 MHz, E-1M 3.1, Clipping 44%) | LTE-FDD | 7.51 | ± 9.6 % |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.48 | ± 9.6 % |
| 10451 | AAD | Validation (Square, 10ms, 1ms) | | 7.59 | ± 9.6 % |
| 10455 | AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc) | Test | 10.00 | ± 9.6 % |
| 10456 | AAA | UMTS-FDD (DC-HSDPA) | WLAN | 8.63 | ± 9.6 % |
| | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | WCDMA | 6.62 | ± 9.6 % |
| 10459 | \ | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | CDMA2000 CDMA2000 | 6.55 | ± 9.6 % |
| 10458 | ΔΛΛ | A STORY OF THE VALUE OF BOX BY A STORY OF THE VALUE OF TH | L.L.IMIAZDDEI | 8.25 | ± 9.6 % |
| 10459 | AAA | | | | |
| 10459 10460 | AAA | UMTS-FDD (WCDMA, AMR) | WCDMA | 2.39 | ± 9.6 % |
| 10459 | | | | | |

| 10463 | AAD | LITE TOD (SC EDMA 4 DR 4 4 MULE CA CANALIU O L) | I TE TOO | 1 ==: | |
|-------|-----|--|----------|--------------|--------------------|
| 10463 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10464 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10465 | | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10467 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10468 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10469 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.56 | ± 9.6 % |
| 10470 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10471 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10472 | AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10473 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.82 | ± 9.6 % |
| 10474 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10475 | AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10477 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.32 | ± 9.6 % |
| 10478 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.57 | ± 9.6 % |
| 10479 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10480 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.18 | ± 9.6 % |
| 10481 | AAB | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10482 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 7.71 | ± 9.6 % |
| 10483 | AAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub) | LTE-TDD | 8.39 | ± 9.6 % |
| 10484 | AAF | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.47 | ± 9.6 % |
| 10485 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub) | LTE-TDD | 7.59 | ± 9.6 % |
| 10486 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.38 | ± 9.6 % |
| 10487 | AAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.60 | ± 9.6 % |
| 10488 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 7.70 | ± 9.6 % |
| 10489 | AAF | | LTE-TDD | 8.31 | ± 9.6 % |
| 10490 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.54 | ±9.6 % |
| 10491 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10492 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.41 | ± 9.6 % |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 8.55 | ± 9.6 % |
| 10494 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % |
| 10495 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.37 | ± 9.6 % |
| 10496 | AAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 8.54 | ± 9.6 % |
| 10497 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| 10498 | AAB | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.40 | ± 9.6 % |
| 10500 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 84-QAM, 0L Sub) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub) | LTE-TDD | 8.68 | ± 9.6 % |
| 10501 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 7.67 | ± 9.6 % |
| 10502 | AAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.44 | ± 9.6 % |
| 10502 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, 0L Sub) | LTE-TDD | 8.52 | ± 9.6 % |
| 10504 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub) | LTE-TDD | 7.72 8.31 | ± 9.6 % ± 9.6 % |
| 10505 | AAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.31 | ± 9.6 % ± 9.6 % |
| 10506 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % ± 9.6 % |
| 10507 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.36 | ± 9.6 % ± 9.6 % |
| 10508 | AAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, 0L Sub) | LTE-TDD | 8.36 | |
| 10509 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub) | LTE-TDD | 7.99 | ± 9.6 % |
| 10510 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.49 | ± 9.6 % ± 9.6 % |
| 10511 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.49 | ± 9.6 % ± 9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub) | LTE-TDD | 7.74 | ± 9.6 % ± 9.6 % |
| 10513 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub) | LTE-TDD | 8.42 | ± 9.6 % ± 9.6 % |
| 10514 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub) | LTE-TDD | 8.45 | ± 9.6 % |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc) | WLAN | 1.58 | ± 9.6 % |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc) | WLAN | 1.57 | ± 9.6 % ± 9.6 % |
| 10518 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc) | WLAN | 8.23 | ± 9.6 % ± 9.6 % |
| 10519 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc) | WLAN | 8.39 | ± 9.6 % ± 9.6 % |
| 10520 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc) | WLAN | 8.12 | ± 9.6 % ± 9.6 % |
| 10521 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 16 Mbps, 99pc dc) | WLAN | 7.97 | ± 9.6 % ± 9.6 % |
| 10522 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10523 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc) | WLAN | 8.08 | ± 9.6 % |
| 10524 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc) | WLAN | 8.27 | ± 9.6 % |
| 10525 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10526 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10527 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc) | WLAN | 8.21 | ± 9.6 % |
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|-------|-----|---|-----------|--------------|--------------------|
| 10528 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10529 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc) | WLAN | 8.36 | ± 9.6 % |
| 10531 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc) | WLAN | 8.43 | ± 9.6 % |
| 10532 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc) | WLAN | 8.29 | ± 9.6 % |
| 10533 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc) | WLAN | 8.38 | ± 9.6 % |
| 10534 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10535 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10536 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc) | WLAN | 8.32 | ± 9.6 % |
| 10537 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc) | WLAN | 8.44 | ± 9.6 % |
| 10538 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc) | WLAN | 8.54 | ± 9.6 % |
| 10540 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc) | WLAN | 8.39 | ± 9.6 % |
| 10541 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc) | WLAN | 8.46 | ± 9.6 % |
| 10542 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc) | WLAN | 8.65 | ± 9.6 % |
| 10543 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc) | WLAN | 8.65 | ± 9.6 % |
| 10544 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc) | WLAN | 8.47 | ± 9.6 % |
| 10545 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc) | WLAN | 8.55 | ± 9.6 % |
| 10546 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10547 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc) | WLAN | 8.49 | ± 9.6 % |
| 10548 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc) | WLAN | 8.37 | ± 9.6 % |
| 10550 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc) | WLAN | 8.38 | ± 9.6 % |
| 10551 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10552 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc) | WLAN | 8.42 | ± 9.6 % |
| 10553 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10554 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc) | WLAN | 8.48 | ± 9.6 % |
| 10555 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc) | WLAN | 8.47 | ±9.6 % |
| 10556 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10557 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc) | WLAN | 8.52 | ± 9.6 % |
| 10558 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc) | WLAN | 8.61 | ± 9.6 % |
| 10560 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc) | WLAN | 8.73 | ± 9.6 % |
| 10561 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc) | WLAN | 8.56 | ± 9.6 % |
| 10562 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc) | WLAN | 8.69 | ± 9.6 % ± 9.6 % |
| 10563 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc) | WLAN | 8.25 | ± 9.6 % ± 9.6 % |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % ± 9.6 % |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.45 | ± 9.6 % |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % ± 9.6 % |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.00 | ± 9.6 % ± 9.6 % |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc) | WLAN | 8.10 | ± 9.6 % |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc) | WLAN | 8.30 | ± 9.6 % |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % ± 9.6 % |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc) | WLAN | 1.99 | ± 9.6 % ± 9.6 % |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % ± 9.6 % |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc) | WLAN | 1.98 | ± 9.6 % ± 9.6 % |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc) | WLAN | 8.59 | ± 9.6 % ± 9.6 % |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % ± 9.6 % |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ± 9.6 % ± 9.6 % |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ± 9.6 % ± 9.6 % |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ± 9.6 % ± 9.6 % |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ± 9.6 % ± 9.6 % |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.76 | |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % ± 9.6 % |
| 10583 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % ± 9.6 % |
| 10584 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc) | WLAN | 8.59 | |
| 10585 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) | WLAN | 8.60 | ± 9.6 % ± 9.6 % |
| 10586 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc) | WLAN | | |
| 10587 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 8.36 | ± 9.6 % |
| 10588 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc) | WLAN | | ± 9.6 % |
| 10589 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) | WLAN | 8.76 | ±9.6 % |
| 10590 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ± 9.6 % |
| 10590 | AAB | IEEE 802.11a/II WIFI'S GHZ (OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ± 9.6 % |
| 10591 | AAB | IEEE 802.1111 (HT Mixed, 20MHz, MCS0, 90pc dc) | WLAN | 8.63 | ± 9.6 % |
| 10593 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10593 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10594 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc) | WLAN | 8.74 8.74 | ± 9.6 % |
| | | , 30pc uc) | V V L/\IV | 0.74 | ± 9.6 % |

| 10596 | I AAD | IEEE 902 415 (HT Mixed 20MH- MOOF 90 H) | I MAIL ART | | |
|-------|-------|---|------------|--------|------------|
| 10596 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc) | WLAN | 8.71 | ± 9.6 % |
| 10597 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| | | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc) | WLAN | 8.50 | ± 9.6 % |
| 10599 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10600 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc) | WLAN | 8.88 | ± 9.6 % |
| 10601 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10602 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10603 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc) | WLAN | 9.03 | ± 9.6 % |
| 10604 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc) | WLAN | 8.76 | ± 9.6 % |
| 10605 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc) | WLAN | 8.97 | ± 9.6 % |
| 10606 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10607 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc) | WLAN | 8.64 | ± 9.6 % |
| 10608 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10609 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc) | WLAN | 8.57 | ± 9.6 % |
| 10610 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc) | WLAN | 8.78 | ± 9.6 % |
| 10611 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc) | WLAN | 8.70 | ± 9.6 % |
| 10612 | AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10613 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc) | WLAN | 8.94 | ± 9.6 % |
| 10614 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc) | WLAN | 8.59 | ± 9.6 % |
| 10615 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10616 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10617 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10618 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc) | WLAN | 8.58 | ± 9.6 % |
| 10619 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10620 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc) | WLAN | 8.87 | ± 9.6 % |
| 10621 | AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc) | WLAN | 8.77 | ± 9.6 % |
| 10622 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc) | WLAN | 8.68 | ± 9.6 % |
| 10623 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc) | WLAN | 8.82 | ± 9.6 % |
| 10624 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc) | WLAN | 8.96 | ± 9.6 % |
| 10625 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc) | WLAN | 8.96 | ± 9.6 % |
| 10626 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10627 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc) | WLAN | 8.88 | ± 9.6 % |
| 10628 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc) | WLAN | 8.71 | ± 9.6 % |
| 10629 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc) | WLAN | 8.85 | ± 9.6 % |
| 10630 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc) | WLAN | 8.72 | ± 9.6 % |
| 10631 | AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10632 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc) | WLAN | 8.74 | ± 9.6 % |
| 10633 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10634 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc) | WLAN | 8.80 | ± 9.6 % |
| 10635 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc) | WLAN | 8.81 | ± 9.6 % |
| 10636 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc) | WLAN | 8.83 | ± 9.6 % |
| 10637 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc) | WLAN | 8.79 | ± 9.6 % |
| 10638 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc) | WLAN | 8.86 | ± 9.6 % |
| 10639 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc) | WLAN | 8.85 | ± 9.6 % |
| 10640 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc) | WLAN | 8.98 | ± 9.6 % |
| 10641 | AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10642 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc) | WLAN | 9.06 | ± 9.6 % |
| 10643 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc) | WLAN | 8.89 | ± 9.6 % |
| 10644 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc) | WLAN | 9.05 | ± 9.6 % |
| 10645 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc) | WLAN | 9.11 | ± 9.6 % |
| 10646 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10647 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10648 | AAA | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ± 9.6 % |
| 10652 | AAE | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | ± 9.6 % |
| 10653 | AAE | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ± 9.6 % |
| 10654 | AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | ± 9.6 % |
| 10655 | AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | ± 9.6 % |
| 10658 | AAA | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ± 9.6 % |
| 10659 | AAA | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ± 9.6 % |
| 10660 | AAA | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ± 9.6 % |
| 10661 | AAA | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ± 9.6 % |
| 10662 | AAA | Pulse Waveform (200Hz, 80%) | Test | 0.97 | ± 9.6 % |
| 10670 | AAA | Bluetooth Low Energy | Bluetooth | 2.19 | ± 9.6 % |
| 10671 | AAA | IEEE 802.11ax (20MHz, MCS0, 90pc dc) | WLAN | 9.09 | ± 9.6 % |
| | | , | * * L. / \ | 1 3.03 | ± 0.0 70 l |

| 10872 | | | | | | |
|--|-------|--------------|--|------|---------------------------------------|---------|
| 100767 | 10672 | AAA | IEEE 802.11ax (20MHz, MCS1, 90pc dc) | WLAN | 8.57 | ± 9.6 % |
| 1907-14 AAA | 10673 | AAA | IEEE 802.11ax (20MHz, MCS2, 90pc dc) | WLAN | | |
| 19676 A.M. IEEE 802.11sx (20MHz, MCS4, 90pc dc) WLAN 8,90 4,96 fs | 10674 | AAA | | | | |
| 19076 | 10675 | AAA | | | | |
| 10677 | | | | | | |
| 10679 | | | | | | |
| 19679 AAA IEEE 802.118x (20MHz, MCS8, 90pc dc) | | | IEEE 002.11ax (20MHz, MCCO, 90pc dc) | | | |
| 10680 | | | | | | ± 9.6 % |
| 10981 | | | | | | |
| 10682 | | | | WLAN | 8.80 | ± 9.6 % |
| 10882 | | · | | WLAN | 8.62 | ± 9.6 % |
| 10884 AAA IEEE 802.11ax (20MHz, MCS1, 99pc do) WLAN 8.42 ± 9.6 % 10865 AAA IEEE 802.11ax (20MHz, MCS1, 99pc do) WLAN 8.33 ± 9.6 % 10867 AAA IEEE 802.11ax (20MHz, MCS3, 99pc do) WLAN 8.28 ± 9.6 % 10867 AAA IEEE 802.11ax (20MHz, MCS3, 99pc do) WLAN 8.28 ± 9.6 % 10868 AAA IEEE 802.11ax (20MHz, MCS3, 99pc do) WLAN 8.46 ± 9.6 % 10868 AAA IEEE 802.11ax (20MHz, MCS5, 99pc do) WLAN 8.46 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS5, 99pc do) WLAN 8.29 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS6, 99pc do) WLAN 8.29 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS6, 99pc do) WLAN 8.25 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS6, 99pc do) WLAN 8.25 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1, 99pc do) WLAN 8.25 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1), 99pc do) WLAN 8.25 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1), 99pc do) WLAN 8.25 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1), 99pc do) WLAN 8.27 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1), 99pc do) WLAN 8.27 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1), 99pc do) WLAN 8.57 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1), 99pc do) WLAN 8.57 ± 9.6 % 10869 AAA IEEE 802.11ax (20MHz, MCS1), 99pc do) WLAN 8.57 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS1), 99pc do) WLAN 8.61 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS1), 99pc do) WLAN 8.61 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS1), 99pc do) WLAN 8.61 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS2), 99pc do) WLAN 8.61 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS1), 99pc do) WLAN 8.61 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS1), 99pc do) WLAN 8.61 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS1), 99pc do) WLAN 8.61 ± 9.6 % 10869 AAA IEEE 802.11ax (40MHz, MCS1), 99pc do) WLAN 8.66 ± 9.6 % 108700 AAA IEEE 802.11a | | AAA | | WLAN | 8.83 | |
| 10686 | | AAA | IEEE 802.11ax (20MHz, MCS0, 99pc dc) | WLAN | 8.42 | |
| 10686 | 10684 | AAA | IEEE 802.11ax (20MHz, MCS1, 99pc dc) | WLAN | | |
| 10886 | 10685 | AAA | IEEE 802.11ax (20MHz, MCS2, 99pc dc) | | | |
| 1988 AAA | 10686 | AAA | | | | |
| 10688 | 10687 | AAA | | | | |
| 10689 | | | | | | |
| 10690 | | | | | | |
| 10691 | | | | | | |
| 10692 | | ļ | | | | |
| 10693 | | | | | | ± 9.6 % |
| 10694 | | | | | 8.29 | ± 9.6 % |
| 10694 | | | | | 8.25 | ± 9.6 % |
| 10895 | | | | | 8.57 | |
| 10896 | | | IEEE 802.11ax (40MHz, MCS0, 90pc dc) | WLAN | 8.78 | |
| 10698 | | AAA | | WLAN | 8.91 | |
| 10698 | 10697 | AAA | IEEE 802.11ax (40MHz, MCS2, 90pc dc) | WLAN | | |
| 10699 | 10698 | AAA | IEEE 802.11ax (40MHz, MCS3, 90pc dc) | | | |
| 10700 AAA IEEE 802.11ax (40MHz, MCS5, 90pc dc) | 10699 | AAA | | | | |
| 10701 AAA IEEE 802.11ax (40MHz, MCSF, 90pc dc) WLAN 8.86 ±9.6 % 10702 AAA IEEE 802.11ax (40MHz, MCSF, 90pc dc) WLAN 8.70 ±9.6 % 10704 AAA IEEE 802.11ax (40MHz, MCSF, 90pc dc) WLAN 8.82 ±9.6 % 10704 AAA IEEE 802.11ax (40MHz, MCSB, 90pc dc) WLAN 8.66 ±9.6 % 10705 AAA IEEE 802.11ax (40MHz, MCS10, 90pc dc) WLAN 8.66 ±9.6 % 10706 AAA IEEE 802.11ax (40MHz, MCS10, 90pc dc) WLAN 8.66 ±9.6 % 10707 AAA IEEE 802.11ax (40MHz, MCS11, 90pc dc) WLAN 8.66 ±9.6 % 10707 AAA IEEE 802.11ax (40MHz, MCS10, 99pc dc) WLAN 8.32 ±9.6 % 10708 AAA IEEE 802.11ax (40MHz, MCS10, 99pc dc) WLAN 8.32 ±9.6 % 10709 AAA IEEE 802.11ax (40MHz, MCS2, 99pc dc) WLAN 8.55 ±9.6 % 10710 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WLAN 8.29 ±9.6 % 10711 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WLAN 8.29 ±9.6 % 10712 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WLAN 8.39 ±9.6 % 10712 AAA IEEE 802.11ax (40MHz, MCS5, 99pc dc) WLAN 8.39 ±9.6 % 10712 AAA IEEE 802.11ax (40MHz, MCS5, 99pc dc) WLAN 8.33 ±9.6 % 10712 AAA IEEE 802.11ax (40MHz, MCS5, 99pc dc) WLAN 8.33 ±9.6 % 10714 AAA IEEE 802.11ax (40MHz, MCS6, 99pc dc) WLAN 8.33 ±9.6 % 10715 AAA IEEE 802.11ax (40MHz, MCS6, 99pc dc) WLAN 8.33 ±9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS6, 99pc dc) WLAN 8.26 ±9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN 8.26 ±9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN 8.26 ±9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN 8.26 ±9.6 % 10717 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN 8.26 ±9.6 % 10718 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN 8.26 ±9.6 % 10724 AAA IEEE 802.11ax (40MHz, MCS9, 90pc dc) WLAN 8.27 ±9.6 % 10724 AAA IEEE 802.11ax (40MHz, MCS9, 90pc dc) WLAN 8.76 ±9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.6 | 10700 | AAA | | | | |
| 10702 | 10701 | AAA | | | -) | |
| 10703 | | | | | | |
| 10704 AAA IEEE 802.11ax (40MHz, MCS9, 90pc dc) WILAN 8.56 ±9.6 % 10705 AAA IEEE 802.11ax (40MHz, MCS10, 90pc dc) WILAN 8.69 ±9.6 % 10706 AAA IEEE 802.11ax (40MHz, MCS11, 90pc dc) WILAN 8.60 ±9.6 % 10707 AAA IEEE 802.11ax (40MHz, MCS1, 90pc dc) WILAN 8.32 ±9.6 % 10708 AAA IEEE 802.11ax (40MHz, MCS1, 99pc dc) WILAN 8.32 ±9.6 % 10709 AAA IEEE 802.11ax (40MHz, MCS1, 99pc dc) WILAN 8.33 ±9.6 % 10709 AAA IEEE 802.11ax (40MHz, MCS2, 99pc dc) WILAN 8.33 ±9.6 % 10710 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.29 ±9.6 % 10711 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.39 ±9.6 % 10712 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.39 ±9.6 % 10713 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.67 ±9.6 % 10714 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.67 ±9.6 % 10714 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.26 ±9.6 % 10715 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.26 ±9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.45 ±9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.46 ±9.6 % 10717 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.48 ±9.6 % 10718 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.48 ±9.6 % 10719 AAA IEEE 802.11ax (40MHz, MCS1, 99pc dc) WILAN 8.48 ±9.6 % 10719 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WILAN 8.48 ±9.6 % 10720 AAA IEEE 802.11ax (40MHz, MCS3, 90pc dc) WILAN 8.48 ±9.6 % 10721 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WILAN 8.76 ±9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WILAN 8.76 ±9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WILAN 8.76 ±9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WILAN 8.70 ±9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WILAN 8.66 ±9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS3 | | | | | | |
| 10705 | | | | | | |
| 10706 | | | | | | |
| 10707 AAA IEEE 802.11ax (40MHz, MCS0, 99pc dc) WLAN 8.32 ± 9.6 % 10708 AAA IEEE 802.11ax (40MHz, MCS1, 99pc dc) WLAN 8.55 ± 9.6 % 10709 AAA IEEE 802.11ax (40MHz, MCS1, 99pc dc) WLAN 8.33 ± 9.6 % 10710 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WLAN 8.29 ± 9.6 % 10711 AAA IEEE 802.11ax (40MHz, MCS4, 99pc dc) WLAN 8.29 ± 9.6 % 10712 AAA IEEE 802.11ax (40MHz, MCS4, 99pc dc) WLAN 8.39 ± 9.6 % 10712 AAA IEEE 802.11ax (40MHz, MCS5, 99pc dc) WLAN 8.67 ± 9.6 % 10713 AAA IEEE 802.11ax (40MHz, MCS6, 99pc dc) WLAN 8.33 ± 9.6 % 10714 AAA IEEE 802.11ax (40MHz, MCS6, 99pc dc) WLAN 8.36 ± 9.6 % 10715 AAA IEEE 802.11ax (40MHz, MCS7, 99pc dc) WLAN 8.26 ± 9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN 8.45 ± 9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN 8.45 ± 9.6 % 10716 AAA IEEE 802.11ax (40MHz, MCS10, 99pc dc) WLAN 8.48 ± 9.6 % 10718 AAA IEEE 802.11ax (40MHz, MCS10, 99pc dc) WLAN 8.48 ± 9.6 % 10719 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.24 ± 9.6 % 10719 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.81 ± 9.6 % 10720 AAA IEEE 802.11ax (80MHz, MCS1, 90pc dc) WLAN 8.87 ± 9.6 % 10721 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.87 ± 9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.76 ± 9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.70 ± 9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.70 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.70 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.66 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.66 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MC | | | IEEE 802.11ax (40MHz, MCS10, 90pc dc) | | 8.69 | ± 9.6 % |
| 10708 | | | | WLAN | 8.66 | ± 9.6 % |
| 10708 | | | | WLAN | 8.32 | ± 9.6 % |
| 10719 | | | | WLAN | 8.55 | |
| 10710 | | | | WLAN | 8.33 | |
| 10711 | | AAA | | WLAN | | |
| 10712 | 10711 | AAA | | WLAN | | |
| 10713 | 10712 | AAA | IEEE 802.11ax (40MHz, MCS5, 99pc dc) | | | |
| 10714 | 10713 | AAA | IEEE 802.11ax (40MHz, MCS6, 99pc dc) | | | |
| 10715 | 10714 | AAA | IEEE 802.11ax (40MHz, MCS7, 99pc dc) | | | |
| 10716 | 10715 | AAA | IEEE 802.11ax (40MHz, MCS8, 99pc dc) | | | |
| 10717 AAA IEEE 802.11ax (40MHz, MCS10, 99pc dc) WLAN 8.48 ± 9.6 % 10718 AAA IEEE 802.11ax (40MHz, MCS11, 99pc dc) WLAN 8.24 ± 9.6 % 10719 AAA IEEE 802.11ax (80MHz, MCS1, 90pc dc) WLAN 8.87 ± 9.6 % 10721 AAA IEEE 802.11ax (80MHz, MCS2, 90pc dc) WLAN 8.55 ± 9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.55 ± 9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.70 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.70 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.70 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.71 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.72 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.66 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.42 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.25 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.25 ± 9.6 % 10734 AAA IEEE 802.11ax (8 | | | | | · · · · · · · · · · · · · · · · · · · | |
| 10718 AAA IEEE 802.11ax (40MHz, MCS11, 99pc dc) WLAN 8.24 ± 9.6 % 10719 AAA IEEE 802.11ax (80MHz, MCS0, 90pc dc) WLAN 8.81 ± 9.6 % 10720 AAA IEEE 802.11ax (80MHz, MCS1, 90pc dc) WLAN 8.87 ± 9.6 % 10721 AAA IEEE 802.11ax (80MHz, MCS2, 90pc dc) WLAN 8.76 ± 9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.75 ± 9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.90 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| 10719 AAA IEEE 802.11ax (80MHz, MCS0, 90pc dc) WLAN 8.81 ± 9.6 % 10720 AAA IEEE 802.11ax (80MHz, MCS1, 90pc dc) WLAN 8.87 ± 9.6 % 10721 AAA IEEE 802.11ax (80MHz, MCS2, 90pc dc) WLAN 8.76 ± 9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.70 ± 9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.90 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.65 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| 10720 AAA IEEE 802.11ax (80MHz, MCS1, 90pc dc) WLAN 8.87 ±9.6 % 10721 AAA IEEE 802.11ax (80MHz, MCS2, 90pc dc) WLAN 8.76 ±9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.55 ±9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN 8.70 ±9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.74 ±9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.72 ±9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ±9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ±9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ±9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.64 ±9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ±9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | |
| 10721 AAA IEEE 802.11ax (80MHz, MCS2, 90pc dc) WLAN 8.76 ± 9.6 % 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.55 ± 9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.90 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.65 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> | | | | | - | |
| 10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN 8.55 ± 9.6 % 10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.90 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.46 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| 10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN 8.70 ± 9.6 % 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.90 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | | 8.76 | ± 9.6 % |
| 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.90 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | | 8.55 | ± 9.6 % |
| 10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN 8.90 ± 9.6 % 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | WLAN | 8.70 | ± 9.6 % |
| 10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN 8.74 ± 9.6 % 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | WLAN | 8.90 | |
| 10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN 8.72 ± 9.6 % 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | WLAN | | |
| 10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN 8.66 ± 9.6 % 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | AAA | IEEE 802.11ax (80MHz, MCS7, 90pc dc) | | | |
| 10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN 8.65 ± 9.6 % 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | 10727 | AAA | IEEE 802.11ax (80MHz, MCS8, 90pc dc) | | | |
| 10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 8.64 ± 9.6 % 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | 10728 | AAA | IEEE 802.11ax (80MHz, MCS9, 90pc dc) | | | |
| 10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN 8.67 ± 9.6 % 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | | | |
| 10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN 8.42 ± 9.6 % 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | · · · · · · · · · · · · · · · · · · · | | | |
| 10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN 8.46 ± 9.6 % 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | | | |
| 10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN 8.40 ± 9.6 % 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | | · · · · · · · · · · · · · · · · · · · | |
| 10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN 8.25 ± 9.6 % | | | | | | |
| 10725 AAA UEEE 000 44 (00MH) MOO 4 00 | | | | | | |
| 10/30 AAA IEEE 802.118X (80MHz, MCS4, 99pc dc) WLAN 8.33 ± 9.6 % | | | The state of the s | | | |
| | 10735 | AAA | IEEE OUZ. I TAX (8UMHZ, MUS4, 99pc dc) | WLAN | 8.33 | ± 9.6 % |

| 10736 AAA IEEE 802.11ax (80MHz, MCS5, 99pc dc) WLAN 8.2° 10737 AAA IEEE 802.11ax (80MHz, MCS6, 99pc dc) WLAN 8.30 10738 AAA IEEE 802.11ax (80MHz, MCS7, 99pc dc) WLAN 8.40 10739 AAA IEEE 802.11ax (80MHz, MCS8, 99pc dc) WLAN 8.20 10740 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc dc) WLAN 8.40 10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.40 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.90 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.10 10745 AAA IEEE 802.11ax (160MHz, MCS2, 90pc dc) WLAN 8.90 | 5 ± 9.6 % 2 ± 9.6 % 3 ± 9.6 % 3 ± 9.6 % |
|--|--|
| 10738 AAA IEEE 802.11ax (80MHz, MCS7, 99pc dc) WLAN 8.43 10739 AAA IEEE 802.11ax (80MHz, MCS8, 99pc dc) WLAN 8.29 10740 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.44 10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc dc) WLAN 8.44 10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.43 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.94 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.16 | ± 9.6 % ± 9.6 % ± 9.6 % |
| 10739 AAA IEEE 802.11ax (80MHz, MCS8, 99pc dc) WLAN 8.29 10740 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.40 10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc dc) WLAN 8.40 10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.40 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.90 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.10 | ± 9.6 % ± 9.6 % |
| 10740 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.44 10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc dc) WLAN 8.44 10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.44 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.94 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.16 | ± 9.6 % ± 9.6 % |
| 10740 AAA IEEE 802.11ax (80MHz, MCS9, 99pc dc) WLAN 8.44 10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc dc) WLAN 8.44 10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.45 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.94 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.16 | 3 ± 9.6 % |
| 10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc dc) WLAN 8.40 10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.40 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.90 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.10 | |
| 10742 AAA IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN 8.43 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.94 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.10 |) ± 9.6 % |
| 10743 AAA IEEE 802.11ax (160MHz, MCS0, 90pc dc) WLAN 8.94 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.16 | |
| 10744 AAA IEEE 802.11ax (160MHz, MCS1, 90pc dc) WLAN 9.10 | |
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| 10745 | |
| 10746 AAA IEEE 802.11ax (160MHz, MCS3, 90pc dc) WLAN 9.1 | |
| 10747 AAA IEEE 802.11ax (160MHz, MCS4, 90pc dc) WLAN 9.04 | |
| 10710 | |
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| 10752 AAA IEEE 802.11ax (160MHz, MCS9, 90pc dc) WLAN 8.8 | |
| 10753 AAA IEEE 802.11ax (160MHz, MCS10, 90pc dc) WLAN 9.00 | |
| 10754 AAA IEEE 802.11ax (160MHz, MCS11, 90pc dc) WLAN 8.94 | |
| 10755 AAA IEEE 802.11ax (160MHz, MCS0, 99pc dc) WLAN 8.64 | |
| 10756 AAA IEEE 802.11ax (160MHz, MCS1, 99pc dc) WLAN 8.7 | |
| 10757 AAA IEEE 802.11ax (160MHz, MCS2, 99pc dc) WLAN 8.77 | 7 ± 9.6 % |
| 10758 AAA IEEE 802.11ax (160MHz, MCS3, 99pc dc) WLAN 8.69 | 9 ± 9.6 % |
| 10759 AAA IEEE 802.11ax (160MHz, MCS4, 99pc dc) WLAN 8.58 | 3 ± 9.6 % |
| 10760 AAA IEEE 802.11ax (160MHz, MCS5, 99pc dc) WLAN 8.49 |) ± 9.6 % |
| 10761 AAA IEEE 802.11ax (160MHz, MCS6, 99pc dc) WLAN 8.58 | 3 ± 9.6 % |
| 10762 AAA IEEE 802.11ax (160MHz, MCS7, 99pc dc) WLAN 8.49 | ± 9.6 % |
| 10763 AAA IEEE 802.11ax (160MHz, MCS8, 99pc dc) WLAN 8.53 | |
| 10764 AAA IEEE 802.11ax (160MHz, MCS9, 99pc dc) WLAN 8.54 | |
| 10765 AAA IEEE 802.11ax (160MHz, MCS10, 99pc dc) WLAN 8.54 | |
| 10766 AAA IEEE 802.11ax (160MHz, MCS11, 99pc dc) WLAN 8.5 | |
| 10767 AAC 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 7.99 | |
| 10768 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.0 | |
| 10769 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.0° | |
| 10770 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.02 | |
| 10771 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.02 | |
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| (100,000) | |
| 10777 AAB 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.30 | |
| 10778 AAC 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.34 | |
| 10779 AAB 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.42 | |
| 10780 AAC 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.38 | |
| 10781 AAC 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.38 | |
| 10782 AAC 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.43 | ± 9.6 % |
| 10783 AAC 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.3 | ± 9.6 % |
| 10784 AAC 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.29 | ± 9.6 % |
| 10785 AAC 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.40 | |
| 10786 AAC 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.38 | |
| 10787 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.44 | |
| 10788 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 | |
| 10789 AAC 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 | |
| 10790 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 | |
| 10791 AAC 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 | |
| 10792 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 | |
| 10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.98 | |
| 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 | |
| 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 | |
| | |
| | |
| 10797 | |
| 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.0* | |
| 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.0° 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.8° 10799 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.9° | |

| 10801 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
|-------|-------|--|----------------|------|-----------|
| 10802 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10805 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10806 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10809 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10810 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10812 | AAC | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10817 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10818 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10819 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.33 | ± 9.6 % |
| 10820 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ± 9.6 % |
| 10821 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.30 | |
| 10822 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10823 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10824 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | | 8.36 | ± 9.6 % |
| 10825 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10827 | AAC | | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10827 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| | | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10829 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10830 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.63 | ± 9.6 % |
| 10831 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.73 | ± 9.6 % |
| 10832 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.74 | ± 9.6 % |
| 10833 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10834 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.75 | ± 9.6 % |
| 10835 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10836 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.66 | ± 9.6 % |
| 10837 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.68 | ± 9.6 % |
| 10839 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10840 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.67 | ± 9.6 % |
| 10841 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.71 | ± 9.6 % |
| 10843 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.49 | ± 9.6 % |
| 10844 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10846 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10854 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10855 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10856 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10857 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10858 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10859 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | |
| 10860 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | | ± 9.6 % |
| 10861 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) | | 8.41 | ± 9.6 % |
| 10863 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10864 | AAC | , | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10865 | | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10865 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| | AAC | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10868 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10870 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.86 | ± 9.6 % |
| 10871 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 10873 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10874 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10875 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10876 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.39 | ± 9.6 % |
| 10877 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 7.95 | ± 9.6 % |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10879 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.12 | ± 9.6 % |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | ± 9.6 % |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ± 9.6 % |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| | 1,710 | O THE COLDING THE COUNTY, TECHNICAL STREET | 1 OCIVITAL TOD | 0.01 | _ ± 3.U % |

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|-------|-----|---|---------------|------|---------|
| 10886 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10887 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.35 | ± 9.6 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.02 | ± 9.6 % |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | | |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | | 8.13 | ± 9.6 % |
| 10897 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10898 | AAA | 50 NR (DFT - OFDM 4 RR 40 MH - OROK 00 HH) | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| | | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | |
| 10909 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ± 9.6 % |
| 10910 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | | 5.96 | ± 9.6 % |
| 10911 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 KHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| | 1 | | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10922 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | |
| 10923 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | | 5.82 | ± 9.6 % |
| 10924 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10926 | AAA | | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| | AAA | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10929 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10934 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | | |
| 10939 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | | 5.90 | ± 9.6 % |
| 10940 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10941 | AAA | | 5G NR FR1 FDD | 5.89 | ± 9.6 % |
| 10941 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| | | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10943 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.95 | ± 9.6 % |
| 10944 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.81 | ± 9.6 % |
| 10945 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10951 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | ± 9.6 % |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.25 | |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | | ± 9.6 % |
| | | | JOINTRIFUD | 8.15 | ± 9.6 % |

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| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-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 % |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | ± 9.6 % |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.61 | ± 9.6 % |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.33 | ± 9.6 % |
| 10960 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.32 | ± 9.6 % |
| 10961 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.36 | ± 9.6 % |
| 10962 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.40 | ± 9.6 % |
| 10963 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10964 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.29 | ±9.6% |
| 10965 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.37 | ± 9.6 % |
| 10966 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10967 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.42 | ± 9.6 % |
| 10968 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | ± 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.



Appendix D. Photographs of EUT and Setup

The setup photographs for SAR testing are shown as follows.

Report Format Version 5.0.0 Issued Date : Mar. 30, 2021

Report No. : SF200428C03I Reference No. : 210205C01



Appendix E. Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

Report Format Version 5.0.0 Issued Date : Mar. 30, 2021

Report No. : SF200428C03I Reference No. : 210205C01

| WLAN Tune-up Power (Full) | | | | | | | | | | |
|---------------------------|---------|-----------|---------------------------|---------------------------|-----------------------|-----------------------|--------------------------------|--|--|--|
| WLAN2.4GHz | | | | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up | | | |
| | 1 | 2412 | 19.0 | 19.0 | 19.0 | 19.0 | 22.0 | | | |
| 802.11b | 6 | 2437 | 20.5 | 20.5 | 20.5 | 20.5 | 23.5 | | | |
| | 11 | 2462 | 18.5 | 18.5 | 18.6 | 18.6 | 21.6 | | | |
| | 1 | 2412 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| 802.11g | 6 | 2437 | 20.5 | 20.5 | 20.5 | 20.5 | 23.5 | | | |
| | 11 | 2462 | 16.0 | 16.0 | 16.0 | 16.0 | 19.0 | | | |
| | 1 | 2412 | 15.5 | 16.0 | 16.0 | 16.0 | 19.0 | | | |
| 802.11n HT20 | 6 | 2437 | 20.5 | 21.0 | 21.0 | 21.0 | 24.0 | | | |
| | 11 | 2462 | 16.0 | 16.0 | 16.0 | 16.0 | 19.0 | | | |
| 802.11n HT40 | 3 | 2422 | 15.0 | 15.0 | 15.0 | 15.0 | 18.0 | | | |
| | 6 | 2437 | 16.5 | 16.5 | 16.6 | 16.6 | 19.6 | | | |
| | 9 | 2452 | 14.5 | 14.0 | 14.5 | 14.5 | 17.5 | | | |

| | WLAN Tune-up Power (Full) Bluetooth | | | | | | |
|----------|--------------------------------------|-----------|-------|--|--|--|--|
| Mode | Channel | Frequency | Ant O | | | | |
| | 0 | 2402 | 0.5 | | | | |
| BR / EDR | 39 | 2441 | 1.0 | | | | |
| | 78 | 2480 | 0.5 | | | | |
| | 0 | 2402 | 0.5 | | | | |
| LE | 19 | 2440 | 1.0 | | | | |
| | 39 | 2480 | 0.5 | | | | |

| WLAN Tune-up Power (Full) | | | | | | | | | | |
|---------------------------|---------|-----------|---------------------------|---------------------------|-----------------------|-----------------------|--------------------------------|--|--|--|
| WLAN 5.2GHz | | | | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up | | | |
| | 36 | 5180 | 19.5 | 19.5 | 19.5 | 19.5 | 22.5 | | | |
| 802.11a | 40 | 5200 | 19.0 | 20.0 | 19.5 | 19.5 | 22.5 | | | |
| 0U2.11d | 44 | 5220 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | | |
| | 48 | 5240 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | | |
| | 36 | 5180 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | | |
| 802.11n HT20 | 40 | 5200 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | | |
| 002.1111 1120 | 44 | 5220 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | | |
| | 48 | 5240 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | | |
| 802.11n HT40 | 38 | 5190 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | | |
| | 46 | 5230 | 20.5 | 21.0 | 21.0 | 21.0 | 24.0 | | | |
| 802.11ac VHT80 | 42 | 5210 | 18.5 | 19.0 | 19.0 | 19.0 | 22.0 | | | |

| WLAN Tune-up Power (Full) | | | | | | | | | | | |
|---------------------------|-------------|-----------|---------------------------|---------------------------|-----------------------|-----------------------|--------------------------------|--|--|--|--|
| | WLAN 5.3GHz | | | | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up | | | | |
| | 52 | 5260 | 19.5 | 19.5 | 19.5 | 19.5 | 22.5 | | | | |
| 802.11a | 56 | 5280 | 19.5 | 19.5 | 19.5 | 19.5 | 22.5 | | | | |
| 002.11d | 60 | 5300 | 19.5 | 19.5 | 19.5 | 19.5 | 22.5 | | | | |
| | 64 | 5320 | 19.5 | 19.5 | 19.5 | 19.5 | 22.5 | | | | |
| | 52 | 5260 | 20.0 | 20.0 | 20.0 | 20.0 | 23.0 | | | | |
| 802.11n HT20 | 56 | 5280 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | | | |
| 002.1111 1120 | 60 | 5300 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | | | |
| | 64 | 5320 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | | | |
| 802.11n HT40 | 54 | 5270 | 20.0 | 20.0 | 20.0 | 20.0 | 23.0 | | | | |
| | 62 | 5310 | 18.5 | 18.5 | 18.5 | 18.5 | 21.5 | | | | |
| 802.11ac VHT80 | 58 | 5290 | 18.0 | 18.0 | 18.0 | 18.0 | 21.0 | | | | |

| WLAN Tune-up Power (Full) | | | | | | | | | |
|---------------------------|---------|-----------|---------------------------|---------------------------|-----------------------|-----------------------|--------------------------------|--|--|
| WLAN 5.6GHz | | | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up | | |
| | 100 | 5500 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | |
| | 116 | 5580 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | |
| | 120 | 5600 | 18.5 | 19.5 | 19.5 | 19.5 | 22.5 | | |
| 802.11a | 124 | 5620 | 18.5 | 19.5 | 19.4 | 19.4 | 22.4 | | |
| | 132 | 5660 | 18.5 | 19.5 | 19.4 | 19.4 | 22.4 | | |
| | 140 | 5700 | 19.0 | 19.5 | 19.3 | 19.3 | 22.3 | | |
| | 144 | 5720 | 19.0 | 19.0 | 19.1 | 19.1 | 22.1 | | |
| | 100 | 5500 | 19.5 | 19.5 | 20.0 | 20.0 | 23.0 | | |
| | 116 | 5580 | 19.0 | 20.0 | 19.5 | 19.5 | 22.5 | | |
| | 120 | 5600 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | |
| 802.11n HT20 | 124 | 5620 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | |
| | 132 | 5660 | 19.0 | 19.5 | 19.5 | 19.5 | 22.5 | | |
| | 140 | 5700 | 19.5 | 19.0 | 19.5 | 19.5 | 22.5 | | |
| | 144 | 5720 | 19.5 | 19.0 | 19.5 | 19.5 | 22.5 | | |
| | 102 | 5510 | 19.0 | 19.0 | 19.0 | 19.0 | 22.0 | | |
| | 110 | 5550 | 19.8 | 20.0 | 20.1 | 20.1 | 23.1 | | |
| 802.11n HT40 | 118 | 5590 | 19.8 | 20.0 | 20.0 | 20.0 | 23.0 | | |
| 002.111111140 | 126 | 5630 | 19.8 | 20.0 | 20.0 | 20.0 | 23.0 | | |
| | 134 | 5670 | 19.5 | 19.5 | 19.6 | 19.6 | 22.6 | | |
| | 142 | 5710 | 19.5 | 20.0 | 20.0 | 20.0 | 23.0 | | |
| | 106 | 5530 | 18.5 | 19.0 | 18.5 | 18.5 | 21.5 | | |
| 802.11ac VHT80 | 122 | 5610 | 18.0 | 18.5 | 18.5 | 18.5 | 21.5 | | |
| | 138 | 5690 | 19.5 | 19.5 | 19.5 | 19.5 | 22.5 | | |

| | WLAN Tune-up Power (Full) | | | | | | | | | |
|----------------|---------------------------|-----------|---------------------------|---------------------------|-----------------------|-----------------------|--------------------------------|--|--|--|
| WLAN 5.8GHz | | | | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up | | | |
| | 149 | 5745 | 16.0 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 153 | 5765 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| 802.11a | 157 | 5785 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 161 | 5805 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 165 | 5825 | 16.0 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 149 | 5745 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 153 | 5765 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| 802.11n HT20 | 157 | 5785 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 161 | 5805 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 165 | 5825 | 16.0 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| 802.11n HT40 | 151 | 5755 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| | 159 | 5795 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |
| 802.11ac VHT80 | 155 | 5775 | 16.5 | 16.5 | 16.5 | 16.5 | 19.5 | | | |



Appendix F. Measured Conducted Power Result

The measuring conducted power (Unit: dBm) are shown as below.

Report Format Version 5.0.0 Issued Date : Mar. 30, 2021

Report No. : SF200428C03I Reference No. : 210205C01

| WLAN Conducted Power (Full) | | | | | | | |
|--|----------|---------|-------|--|--|--|--|
| W | LAN2.4GH | z Ant 0 | | | | | |
| Mode Channel Frequency SISO Ant 0 Avg. Power | | | | | | | |
| | 1 | 2412 | 18.78 | | | | |
| 802.11b | 6 | 2437 | 20.14 | | | | |
| | 11 | 2462 | 18.16 | | | | |

| Bluetooth Ant 0 | | | | | | | |
|-----------------|---------|-----------|--------------------------|--|--|--|--|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power | | | | |
| | 0 | 2402 | 0.22 | | | | |
| BR / EDR | 39 | 2441 | 0.81 | | | | |
| | 78 | 2480 | 0.43 | | | | |
| | 0 | 2402 | 0.29 | | | | |
| LE | 19 | 2440 | 0.92 | | | | |
| | 39 | 2480 | 0.5 | | | | |

| WLAN 5.2GHz Ant 0 | | | | | | | |
|-------------------|---------|-----------|--------------------------|--|--|--|--|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power | | | | |
| 802.11n HT40 | 38 | 5190 | 18.9 | | | | |
| 002.1111 1140 | 46 | 5230 | 20.5 | | | | |

| WLAN 5.6GHz Ant 0 | | | | | | | |
|-------------------|---------|-----------|--------------------------|--|--|--|--|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power | | | | |
| | 102 | 5510 | 18.55 | | | | |
| | 110 | 5550 | 19.72 | | | | |
| 802.11n HT40 | 118 | 5590 | 19.7 | | | | |
| 602.11II H 140 | 126 | 5630 | 19.71 | | | | |
| | 134 | 5670 | 19.12 | | | | |
| | 142 | 5710 | 19.23 | | | | |

| WLAN 5.8GHz Ant 0 | | | | | | |
|-------------------|---------|-----------|--------------------------|--|--|--|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power | | | |
| 802.11ac VHT80 | 155 | 5775 | 16.32 | | | |

| WLAN Conducted Power (Full) | | | | | | | |
|-----------------------------|---|---------|-------|--|--|--|--|
| W | LAN2.4GH | z Ant 1 | | | | | |
| Mode | Mode Channel Frequency SISO Ant Avg. Pow | | | | | | |
| | 1 | 2412 | 18.81 | | | | |
| 802.11b | 6 | 2437 | 20.11 | | | | |
| | 11 | 2462 | 18.42 | | | | |

| WLAN 5.2GHz Ant 1 | | | | | | |
|-----------------------------|----|------|-------|--|--|--|
| Mode Channel Frequency SISO | | | | | | |
| 802.11n HT40 | 38 | 5190 | 19.33 | | | |
| 002.1111 1140 | 46 | 5230 | 20.6 | | | |

| WLAN 5.6GHz Ant 1 | | | | | | |
|-------------------|----------|-----------|--------------------------|--|--|--|
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power | | | |
| 802.11n HT40 | 102 | 5510 | 18.72 | | | |
| | 110 5550 | | 19.99 | | | |
| | 118 | 5590 | 19.92 | | | |
| | 126 | 5630 | 19.85 | | | |
| | 134 | 5670 | 19.46 | | | |
| | 142 | 5710 | 19.7 | | | |

| WLAN 5.8GHz Ant 1 | | | | | |
|--|-----|------|-------|--|--|
| Mode Channel Frequency SISO Ant 3 Avg. Power | | | | | |
| 802.11ac VHT80 | 155 | 5775 | 16.35 | | |

| WLAN Conducted Power (Full) WLAN2.4GHz Ant 0+1 | | | | | | |
|--|---------|-----------|--------------------------|--------------------------|-------------------------------|--|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power | |
| | 1 | 2412 | 18.88 | 18.91 | 21.91 | |
| 802.11b | 6 | 2437 | 20.24 | 20.21 | 23.24 | |
| | 11 | 2462 | 18.26 | 18.52 | 21.4 | |

| WLAN 5.2GHz Ant 0+1 | | | | | | |
|---------------------|---------|-----------|--------------------------|--------------------------|-------------------------------|--|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power | |
| 802.11n HT40 | 38 | 5190 | 19 | 19.43 | 22.23 | |
| 002.1111 H 140 | 46 | 5230 | 20.62 | 20.71 | 23.68 | |

| WLAN 5.6GHz Ant 0+1 | | | | | | |
|---------------------|---------|-----------|--------------------------|--------------------------|-------------------------------|--|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power | |
| 802.11n HT40 | 102 | 5510 | 18.67 | 18.83 | 21.76 | |
| | 110 | 5550 | 19.82 | 20.09 | 22.97 | |
| | 118 | 5590 | 19.8 | 20 | 22.91 | |
| | 126 | 5630 | 19.81 | 19.96 | 22.9 | |
| | 134 | 5670 | 19.22 | 19.56 | 22.4 | |
| | 142 | 5710 | 19.33 | 19.81 | 22.59 | |

| WLAN 5.8GHz Ant 0+1 | | | | | | |
|---------------------|---------|-----------|--------------------------|--------------------------|-------------------------------|--|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power | |
| 802.11ac VHT80 | 155 | 5775 | 16.41 | 16.47 | 19.45 | |