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Accreditation No: SCS 0108

Client **CVC-SZ (Auden)**

Certificate No: 5G-Veri10-1046\_May22

## CALIBRATION CERTIFICATE

Object 5G Verification Source 10 GHz-SN:1046

Calibration procedure(s) QA CAL-45.v3  
 Calibration procedure for sources in air above 6 GHz

Calibration date May 18, 2022

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  $(22 \pm 3)^\circ \text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards             | ID#     | Cal Date (Certificate No.)          | Scheduled Calibration  |
|-------------------------------|---------|-------------------------------------|------------------------|
| Reference Probe EUMmWV3       | SN:9374 | 2021-12-21 (No. EUMmWV3-9374_Dec21) | Dec-22                 |
| DAE4ip                        | SN:1602 | 2021-06-25 (No. DAE4ip-1602_Jun21)  | Jun-22                 |
| Secondary Standards           | ID #    | Check Date (in house)               | Scheduled Check        |
| RF generator Anapico APSIN20G | SN:827  | 18-Dec-18 (in house check Dec-21)   | In house check: Dec-23 |

Calibrated by: Name Leif Klysne Function Laboratory Technician

Signature  
  


Approved by: Sven Kühn Technical Manager

Issued: May 25, 2022

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## Glossary

CW Continuous wave

## Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

## Methods Applied and Interpretation of Parameters

- Coordinate System: z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange
- *Measurement Conditions:* (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by far-field measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections
- Horn Positioning: The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- E-field distribution: E field is measured in two x-y-plane (10mm, 10mm +N4) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm<sup>2</sup> and 4cm<sup>2</sup>) power density values at 10mm in front of the horn.
- Field polarization: Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

## Calibrated Quantity

- Local peak E-field (V/m) and average of peak spatial components of the Poynting vector (W/m<sup>2</sup>) averaged over the surface area of 1 cm<sup>2</sup> and 4 cm<sup>2</sup> at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

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                  | DASY8 Module mmWave | V3.0 |
| Phantom                       | 5G Phantom          |      |
| Distance Horn Aperture -plane | 10 mm               |      |
| XY Scan Resolution            | dx, dy =7.5 mm      |      |
| Number of measured planes     | 2 (10mm, 10mm+N4)   |      |
| Frequency                     | 10 GHz ±10 MHz      |      |

Calibration Parameters,10 GHz

Circular Averaging

| Distance Horn Aperture<br>to Measured Plane | Prad'<br>(mW) | Max E-field<br>(V/m) | Uncertainty<br>(k =2) | Avg Power Density<br>Avg (psPDn+, psPDtot+, psPDmod+)<br>(W/m² ) |       | Uncertainty<br>(k =2) |
|---------------------------------------------|---------------|----------------------|-----------------------|------------------------------------------------------------------|-------|-----------------------|
|                                             |               |                      |                       | 1 cm²                                                            | 4 cm² |                       |
| 10 mm                                       | 86.1          | 145                  | 1.27 dB               | 52.7                                                             | 48.9  | 1.28 dB               |

Square Averaging

| Distance Horn Aperture<br>to Measured Plane | Prad'<br>(mW) | Max E-field<br>(V/m) | Uncertainty<br>(k =2) | Avg Power Density<br>Avg (psPDn+, psPDtot+, psPDmod+)<br>(W/m² ) |       | Uncertainty<br>(k=2) |
|---------------------------------------------|---------------|----------------------|-----------------------|------------------------------------------------------------------|-------|----------------------|
|                                             |               |                      |                       | 1 cm²                                                            | 4 cm² |                      |
| 10 mm                                       | 86.1          | 145                  | 1.27 dB               | 52.8                                                             | 48.9  | 1.28 dB              |

Assessed ohmic and mismatch loss plus numerical offset:0.55 dB

DASY Report

Measurement Report for 5G Verification Source 10 GHz,UID 0-,Channel 10000(10000.0MHz)

Device under Test Properties

| Name,Manufacturer             | Dimensions [mm]   | IMEI    | DUT Type |
|-------------------------------|-------------------|---------|----------|
| 5G Verification Source 10 GHz | 100.0x100.0x172.0 | SN:1046 |          |

Exposure Conditions

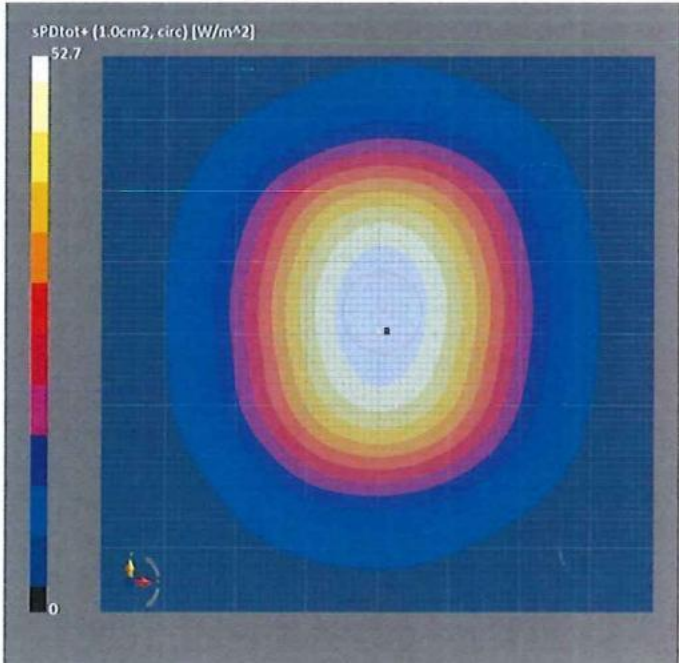
| Phantom Section | Position,Test Distance [mm] | Band            | Group, | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|-----------------------------|-----------------|--------|---------------------------------|-------------------|
| 5G-             | 10.0 mm                     | Validation band | CW     | 10000.0<br>10000                | 1.0               |

Hardware Setup

| Phantom              | Medium | Probe,Calibration Date                 | DAE,Calibration Date         |
|----------------------|--------|----------------------------------------|------------------------------|
| mmWave Phantom -1002 | Air    | EUmmWV3-SN9374_F1-55GHz,<br>2021-12-21 | DAE4ip Sn1602,<br>2021-06-25 |

Scan Setup

| Grid Extents [mm]   | 5G Scan       | Date                   | 5G Scan |
|---------------------|---------------|------------------------|---------|
| 120.0x 120.0        |               | 2022-05-18, 19:52      |         |
| Grid Steps [lambda] | 0.25x 0.25    | Avg.Area [cm²]         | 1.00    |
| Sensor Surface [mm] | 10.0          | psPDn+[W/m²]           | 52.6    |
| MAIA                | MAIA not used | psPDtot+[W/m²]         | 52.7    |
|                     |               | psPDmod+[W/m²]         | 52.9    |
|                     |               | E <sub>max</sub> [V/m] | 145     |
|                     |               | Power Drift [dB]       | -0.01   |



DASY Report

Measurement Report for 5GVerification Source 10 GHz,UID 0-,Channel 10000 (10000.0MHz)

Device under Test Properties

| Name,Manufacturer             | Dimensions [mm]   | IMEI    | DUT Type |
|-------------------------------|-------------------|---------|----------|
| 5G Verification Source 10 GHz | 100.0x100.0x172.0 | SN:1046 |          |

Exposure Conditions

| Phantom Section | Position,Test Distance [mm] | Band            | Group | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|-----------------------------|-----------------|-------|---------------------------------|-------------------|
| 5G-             | 10.0 mm                     | Validation band | CW    | 10000.0, 10000                  | 1.0               |

Hardware Setup

|                      |        |                                     |                           |
|----------------------|--------|-------------------------------------|---------------------------|
| Phantom              | Medium | Probe,Calibration Date              | DAE,Calibration Date      |
| mmWave Phantom -1002 | Air    | EUmmWV3-SN9374_F1-55GHz, 2021-12-21 | DAE4ip Sn1602, 2021-06-25 |

Scan Setup

|                     |               |
|---------------------|---------------|
|                     | 5G Scan       |
| Grid Extents [mm]   | 120.0x120.0   |
| Grid Steps [lambda] | 0.25x 0.25    |
| Sensor Surface [mm] | 10.0          |
| MAIA                | MAIA not used |

Measurement Results

|                  |                   |
|------------------|-------------------|
|                  | 5G Scan           |
| Date             | 2022-05-18, 19:52 |
| Avg.Area [cm²]   | 4.00              |
| psPDn+[W/m²]     | 48.8              |
| psPDtot+[W/m²]   | 48.9              |
| psPDmod+[W/m²]   | 49.1              |
| Emsx[V/m]        | 145               |
| Power Drift [dB] | -0.01             |



DASY Report

Measurement Report for 5GVerification Source 10 GHz,UID 0-,Channel 10000 (10000.0MHz)

Device under Test Properties

| Name,Manufacturer             | Dimensions [mm]   | IMEI    | DUT Type |
|-------------------------------|-------------------|---------|----------|
| 5G Verification Source 10 GHz | 100.0x100.0×172.0 | SN:1046 |          |

Exposure Conditions

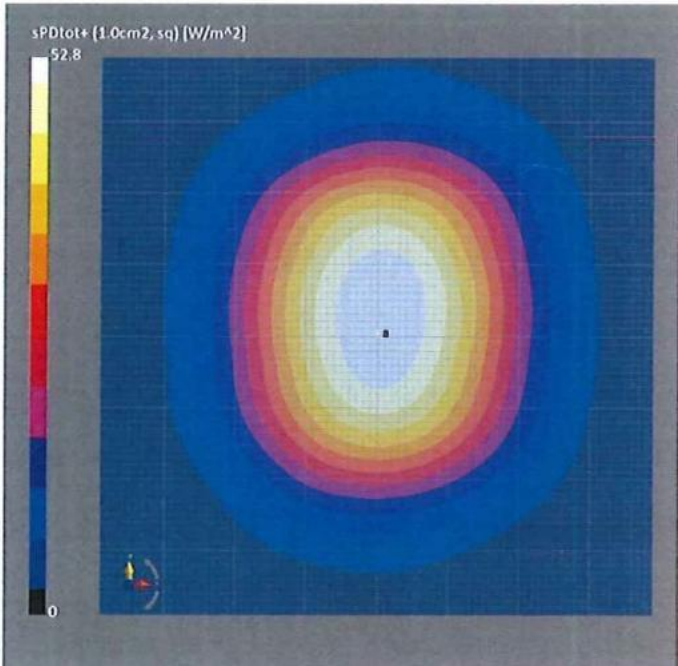
| Phantom Section | Position,Test Distance [mm] | Band            | Group, | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|-----------------------------|-----------------|--------|---------------------------------|-------------------|
| 5G-             | 10.0 mm                     | Validation band | CW     | 10000.0, 10000                  | 1.0               |

Hardware Setup

| Phantom             | Medium | Probe,Calibration Date              | DAE,Calibration Date      |
|---------------------|--------|-------------------------------------|---------------------------|
| mmWave Phantom-1002 | Air    | EUmmWV3-SN9374_F1-55GHz, 2021-12-21 | DAE4ip Sn1602, 2021-06-25 |

Scan Setup

|                     | 5G Scan       | Measurement      | Results | 5G Scan           |
|---------------------|---------------|------------------|---------|-------------------|
| Grid Extents [mm]   | 120.0x 120.0  | Date             |         | 2022-05-18, 19:52 |
| Grid Steps [lambda] | 0.25x 0.25    | Avg.Area [cm²]   |         | 1.00              |
| Sensor Surface [mm] | 10.0          | psPDn+[W/m²]     |         | 52.7              |
| MAIA                | MAIA not usec | psPDtot+[W/m²]   |         | 52.8              |
|                     |               | psPDmod+[W/m²]   |         | 53.0              |
|                     |               | Emax[V/m ]       |         | 145               |
|                     |               | Power Drift [dB] |         | -0.01             |



DASY Report

Measurement Report for 5G Verification Source 10 GHz,UID 0-,Channel 10000(10000.0MHz)

Device under Test Properties

|                               |                   |         |          |
|-------------------------------|-------------------|---------|----------|
| Name,Manufacturer             | Dimensions [mm]   | IMEI    | DUT Type |
| 5G Verification Source 10 GHz | 100.0x100.0x172.0 | SN:1046 |          |

Exposure Conditions

|                 |                             |                 |        |                                 |                   |
|-----------------|-----------------------------|-----------------|--------|---------------------------------|-------------------|
| Phantom Section | Position,Test Distance [mm] | Band            | Group, | Frequency [MHz], Channel Number | Conversion Factor |
| 5G-             | 10.0 mm                     | Validation band | CW     | 10000.0, 10000                  | 1.0               |

Hardware Setup

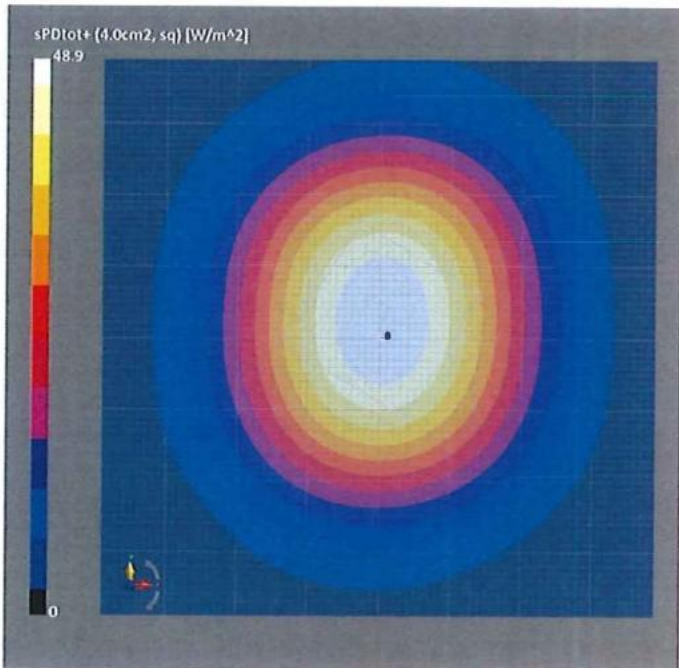
|                      |        |                                     |                           |
|----------------------|--------|-------------------------------------|---------------------------|
| Phantom              | Medium | Probe,Calibration Date              | DAE,Calibration Date      |
| mmWave Phantom -1002 | Air    | EUmmWV3-SN9374_F1-55GHz, 2021-12-21 | DAE4ip Sn1602, 2021-06-25 |

Scan Setup

|                     |               |
|---------------------|---------------|
| Grid Extents [mm]   | 120.0x 120.0  |
| Grid Steps [lambda] | 0.25x 0.25    |
| Sensor Surface [mm] | 10.0          |
| MAIA                | MAIA not used |

Measurement Results

|                        |                   |
|------------------------|-------------------|
| Date                   | 2022-05-18, 19:52 |
| Avg.Area [cm²]         | 4.00              |
| psPDn+[W/m²]           | 48.8              |
| psPDtot+[W/m²]         | 48.9              |
| psPDmod+[W/m²]         | 49.1              |
| E <sub>max</sub> [V/m] | 145               |
| Power Drift [dB]       | -0.01             |



## IMPORTANT NOTICE PLEASE READ BEFORE USING THE EQUIPMENT

### Care and Handling of EUmmWVx Probe

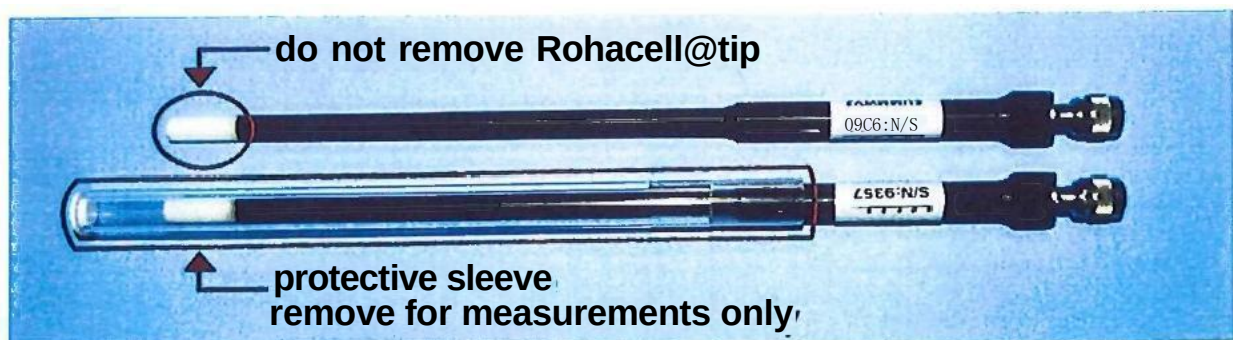
#### CAUTION!

The field sensors in the tip of the EUmmWVx probe are printed on very thin quartz glass in order to allow for outstanding performance with minimal scattering.

The glass tip is protected by the Rohacell@foam - **DO NOT REMOVE THE FOAM** as it is part of the probe design and removal will cause permanent probe damage!

Please note; despite the protective foam, the glass tip of the probe is **fragile and extremely sensitive to any mechanical stress**, so please handle with care! If the glass tip breaks, the probe is damaged beyond economical repair.

For storage, the probe is further protected with a transparent sleeve (see picture below); **the sleeve must be removed before connecting the probe to the DAE; after using the probe, carefully remove from the DAE and re-attach the sleeve and store the probe in a safe place.**



**Note that probe usage is limited to free-space measurements;** water, sugar-water solutions, nutrient solutions and glycol solutions will permanently damage the probe.

We at SPEAG do our best to increase the robustness of the probe as much as possible while allowing for maximum performance. For further questions and support, or to sign up to our probe care program, please contact us at: [support@speag.swiss](mailto:support@speag.swiss).



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Client **CVC-SZ(Auden)** Certificate No: **EUmmWV4-9630\_May22**

| CALIBRATION CERTIFICATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Object                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EUmmWV4-SN: 9630                                                                                                                          |
| Calibration procedure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | QA CAL-02. v9, QA CAL-25. v7, QA CAL-42. v2<br>Calibration procedure for E-field probes optimized for close near field evaluations in air |
| Calibration date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | May 25, 2022                                                                                                                              |
| <p>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.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature <math>(22 \pm 3)^\circ \text{C}</math> and humidity <math>&lt; 70\%</math>.</p> <p>Calibration Equipment used (M&amp;TE critical for calibration)</p> |                                                                                                                                           |

| Primary Standards            | ID            | Cal Date (Certificate No.)         | Scheduled Calibration  |
|------------------------------|---------------|------------------------------------|------------------------|
| Power sensor NRP110T         | SN:101244     | 14-Mar-22 (No. 20A1037915)         | Mar-23                 |
| R&S FSV40 Spectrum Analyzer  | SN:101832     | 25-Jan-22 (No. 4030-315003399)     | Jan-25                 |
| Reference Probe EUmmWV3      | SN:9374       | 21-Dec-21 (No. EUmmWV3-9374_Dec21) | Dec-22                 |
| DAE4                         | SN:789        | 24-Dec-21 (No. DAE4-789_Dec21)     | Dec-22                 |
|                              |               |                                    |                        |
|                              |               |                                    |                        |
| Secondary Standards          | ID            | Check Date (in house)              | Scheduled Check        |
| Generator, Anapico, APSIN26G | SN:669        | 28-Mar-17 (in house check May-22)  | In house check: May-23 |
| Generator, Agilent, E8251A   | SN:US41140111 | 28-Mar-17 (in house check May-22)  | In house check: May-23 |
|                              |               |                                    |                        |
|                              |               |                                    |                        |
|                              |               |                                    |                        |
|                              |               |                                    |                        |

|                |                      |                                   |                                                                                                                                                                              |
|----------------|----------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calibrated by: | Name<br>Leif Klysner | Function<br>Laboratory Technician | Signature<br>                                                                                                                                                                |
| Approved by:   | Sven Kühn            | Technical Manager                 | <p style="text-align: right;">Issued: June 1, 2022</p> <p>This calibration certificate shall not be reproduced except in full without written approval of the laboratory</p> |



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### Glossary:

|                       |                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| NORM <sub>x,y,z</sub> | sensitivity in free space                                                                                                                    |
| DCP                   | diode compression point                                                                                                                      |
| CF                    | crest factor (1/duty_cycle) of the RF signal                                                                                                 |
| A, B, C, D            | modulation dependent linearization parameters                                                                                                |
| Polarization $\phi$   | $\phi$ rotation around probe axis                                                                                                            |
| Polarization $\theta$ | $\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta=0$ is normal to probe axis |
| Connector Angle       | information used in DASY system to align probe sensor X to the robot coordinate system                                                       |
| Sensor Angles         | sensor deviation from the probe axis, used to calculate the field orientation and polarization is the wave propagation direction             |

### Calibration is Performed According to the Following Standards:

- a) IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>: Assessed for E-field polarization  $\theta=0$  for XY sensors and  $\theta=90$  for Z sensor ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). For frequencies  $> 6$  GHz, the far field in front of waveguide horn antennas is measured for a set of frequencies in various waveguide bands up to 110 GHz.
- DCP<sub>x,y,z</sub>: 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
- The frequency sensor model parameters are determined prior to calibration based on a frequency sweep (sensor model involving resistors R, R<sub>p</sub>, inductance L and capacitors C, C<sub>p</sub>).
- $A_x, y, z; B_x, y, z; C_x, y, z; D_x, y, z; V_{Rx}, y, z; A, B, C, D$  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.
- Sensor Offset: The sensor offset corresponds to the mechanical from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).
- Equivalent Sensor Angle: The two probe sensors are mounted in the same plane at different angles. The angles are assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide / horn setup.

# DASY-Parameters of Probe:EUMmWV4-SN:9630

## Basic Calibration Parameters

|                                              | Sensor X | Sensor Y | Unc (k=2)    |
|----------------------------------------------|----------|----------|--------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) | 0.01955  | 0.02171  | $\pm 10.1\%$ |
| DCP (mV)B                                    | 105.0    | 105.0    |              |
| Equivalent Sensor Angle                      | -59.8    | 35.2     |              |

## Calibration results for Frequency Response (750 MHz-110 GHz)

| Frequency GHz | Target E-Field V/m | Deviation Sensor X dB | Deviation Sensor Y dB | Unc (k=2) dB  |
|---------------|--------------------|-----------------------|-----------------------|---------------|
| 0.75          | 77.2               | -0.12                 | -0.30                 | $\pm 0.43$ dB |
| 1.8           | 140.4              | 0.04                  | 0.04                  | $\pm 0.43$ dB |
| 2             | 133.0              | 0.05                  | 0.06                  | $\pm 0.43$ dB |
| 2.2           | 124.8              | 0.05                  | 0.08                  | $\pm 0.43$ dB |
| 2.5           | 123.0              | -0.03                 | -0.02                 | $\pm 0.43$ dB |
| 3.5           | 256.2              | 0.16                  | 0.11                  | $\pm 0.43$ dB |
| 3.7           | 249.8              | 0.22                  | 0.14                  | $\pm 0.43$ dB |
|               |                    |                       |                       |               |
| 6.6           | 41.8               | 0.80                  | 0.80                  | $\pm 0.98$ dB |
| 8             | 48.4               | 0.25                  | 0.09                  | $\pm 0.98$ dB |
| 10            | 54.4               | 0.13                  | 0.15                  | $\pm 0.98$ dB |
| 15            | 71.5               | 0.78                  | -0.13                 | $\pm 0.98$ dB |
| 18            | 85.3               | -0.11                 | 0.31                  | $\pm 0.98$ dB |
|               |                    |                       |                       |               |
| 26.6          | 96.9               | -0.47                 | -0.24                 | $\pm 0.98$ dB |
| 30            | 92.6               | -0.04                 | -0.05                 | $\pm 0.98$ dB |
| 35            | 93.7               | -0.31                 | -0.16                 | $\pm 0.98$ dB |
| 40            | 91.5               | -0.39                 | -0.47                 | $\pm 0.98$ dB |
|               |                    |                       |                       |               |
| 50            | 19.6               | 0.09                  | -0.09                 | $\pm 0.98$ dB |
| 55            | 22.4               | -0.01                 | 0.11                  | $\pm 0.98$ dB |
| 60            | 23.0               | 0.04                  | 0.02                  | $\pm 0.98$ dB |
| 65            | 27.4               | -0.28                 | -0.18                 | $\pm 0.98$ dB |
| 70            | 23.9               | -0.14                 | -0.24                 | $\pm 0.98$ dB |
| 75            | 20.0               | 0.18                  | 0.14                  | $\pm 0.98$ dB |
|               |                    |                       |                       |               |
| 75            | 14.8               | 0.08                  | 0.05                  | $\pm 0.98$ dB |
| 80            | 22.5               | -0.01                 | 0.23                  | $\pm 0.98$ dB |
| 85            | 22.8               | -0.15                 | -0.07                 | $\pm 0.98$ dB |
| 90            | 23.8               | 0.04                  | 0.06                  | $\pm 0.98$ dB |
| 92            | 23.9               | -0.12                 | -0.21                 | $\pm 0.98$ dB |
| 95            | 20.5               | -0.20                 | -0.30                 | $\pm 0.98$ dB |
| 97            | 24.4               | -0.17                 | -0.20                 | $\pm 0.98$ dB |
| 100           | 22.6               | -0.01                 | -0.10                 | $\pm 0.98$ dB |
| 105           | 22.7               | 0.09                  | 0.13                  | $\pm 0.98$ dB |
| 110           | 19.7               | 0.11                  | 0.28                  | $\pm 0.98$ dB |

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.

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

# DASY-Parameters of Probe:EUmmWV4-SN:9630

## Calibration Results for Modulation Response

| UID           | Communication System Name   |   | A<br>dB | B<br>dBV $\mu$ V | C     | D<br>dB | VR<br>mV | Max<br>dev  | Max<br>Unc <sub>E</sub><br>(k=2) |
|---------------|-----------------------------|---|---------|------------------|-------|---------|----------|-------------|----------------------------------|
| 0             | CW                          | X | 0.00    | 0.00             | 1.00  | 0.00    | 107.7    | $\pm 3.8$ % | $\pm 4.7$ %                      |
|               |                             | Y | 0.00    | 0.00             | 1.00  |         | 91.0     |             |                                  |
| 10352-<br>AAA | Pulse Waveform (200Hz, 10%) | X | 3.03    | 60.00            | 14.75 | 10.00   | 6.0      | $\pm 1.3$ % | $\pm 9.6$ %                      |
|               |                             | Y | 2.45    | 60.00            | 15.37 |         | 6.0      |             |                                  |
| 10353-<br>AAA | Pulse Waveform (200Hz, 20%) | X | 2.10    | 60.00            | 13.59 | 6.99    | 12.0     | $\pm 1.0$ % | $\pm 9.6$ %                      |
|               |                             | Y | 1.70    | 60.00            | 14.27 |         | 12.0     |             |                                  |
| 10354-<br>AAA | Pulse Waveform (200Hz, 40%) | X | 1.24    | 60.00            | 12.31 | 3.98    | 23.0     | $\pm 1.4$ % | $\pm 9.6$ %                      |
|               |                             | Y | 1.02    | 60.00            | 13.02 |         | 23.0     |             |                                  |
| 10355-<br>AAA | Pulse Waveform (200Hz, 60%) | X | 0.74    | 60.00            | 11.53 | 2.22    | 27.0     | $\pm 0.9$ % | $\pm 9.6$ %                      |
|               |                             | Y | 0.63    | 60.00            | 12.20 |         | 27.0     |             |                                  |
| 10387-<br>AAA | QPSK Waveform, 1 MHz        | X | 1.21    | 60.00            | 12.09 | 1.00    | 22.0     | $\pm 1.4$ % | $\pm 9.6$ %                      |
|               |                             | Y | 1.20    | 60.00            | 12.20 |         | 22.0     |             |                                  |
| 10388-<br>AAA | QPSK Waveform, 10 MHz       | X | 1.29    | 60.00            | 11.84 | 0.00    | 22.0     | $\pm 0.8$ % | $\pm 9.6$ %                      |
|               |                             | Y | 1.30    | 60.00            | 11.97 |         | 22.0     |             |                                  |
| 10396-<br>AAA | 64-QAM Waveform, 100 kHz    | X | 3.27    | 64.94            | 15.74 | 3.01    | 17.0     | $\pm 0.6$ % | $\pm 9.6$ %                      |
|               |                             | Y | 3.23    | 64.58            | 15.61 |         | 17.0     |             |                                  |
| 10399-<br>AAA | 64-QAM Waveform, 40 MHz     | X | 2.09    | 60.00            | 12.37 | 0.00    | 19.0     | $\pm 0.8$ % | $\pm 9.6$ %                      |
|               |                             | Y | 2.08    | 60.00            | 12.49 |         | 19.0     |             |                                  |
| 10414.<br>AAA | WLAN CCDF, 64-QAM, 40MHz    | X | 3.23    | 60.00            | 12.81 | 0.00    | 12.0     | $\pm 0.8$ % | $\pm 9.6$ %                      |
|               |                             | Y | 3.19    | 60.00            | 12.93 |         | 12.0     |             |                                  |

Note: For details on all calibrated UID parameters see Appendix

## Calibration Results for Linearity Response

| Frequency<br>GHz | Target E-Field<br>V/m | Deviation Sensor X dB | Deviation Sensor Y dB | Unc (k=2)<br>dB |
|------------------|-----------------------|-----------------------|-----------------------|-----------------|
| 0.9              | 50.0                  | -0.11                 | 0.02                  | $\pm 0.2$ dB    |
| 0.9              | 100.0                 | -0.03                 | -0.11                 | $\pm 0.2$ dB    |
| 0.9              | 500.0                 | 0.05                  | -0.01                 | $\pm 0.2$ dB    |
| 0.9              | 1000.0                | 0.08                  | 0.02                  | $\pm 0.2$ dB    |
| 0.9              | 1500.0                | 0.06                  | 0.03                  | $\pm 0.2$ dB    |
| 0.9              | 2000.0                | 0.04                  | 0.00                  | $\pm 0.2$ dB    |

## Sensor Frequency Model Parameters (750 MHz-55 GHz)

|                     | Sensor X | Sensor Y |
|---------------------|----------|----------|
| R (Q)               | 82.82    | 76.37    |
| R <sub>p</sub> (Q)  | 88.74    | 93.92    |
| L (nH)              | 0.11517  | 0.09722  |
| C (pF)              | 0.2527   | 0.2763   |
| C <sub>p</sub> (pF) | 0.0795   | 0.0722   |

## Sensor Frequency Model Parameters (55 GHz-110 GHz)

|                     | Sensor X | Sensor Y |
|---------------------|----------|----------|
| R (Q)               | 35.11    | 35.09    |
| R <sub>φ</sub> (Q)  | 94.64    | 94.96    |
| L (nH)              | 0.03185  | 0.03491  |
| C (pF)              | 0.2245   | 0.2106   |
| C <sub>p</sub> (pF) | 0.1381   | 0.1234   |

# DASY-Parameters of Probe:EUmmWV4-SN:9630

## Sensor Model Parameters

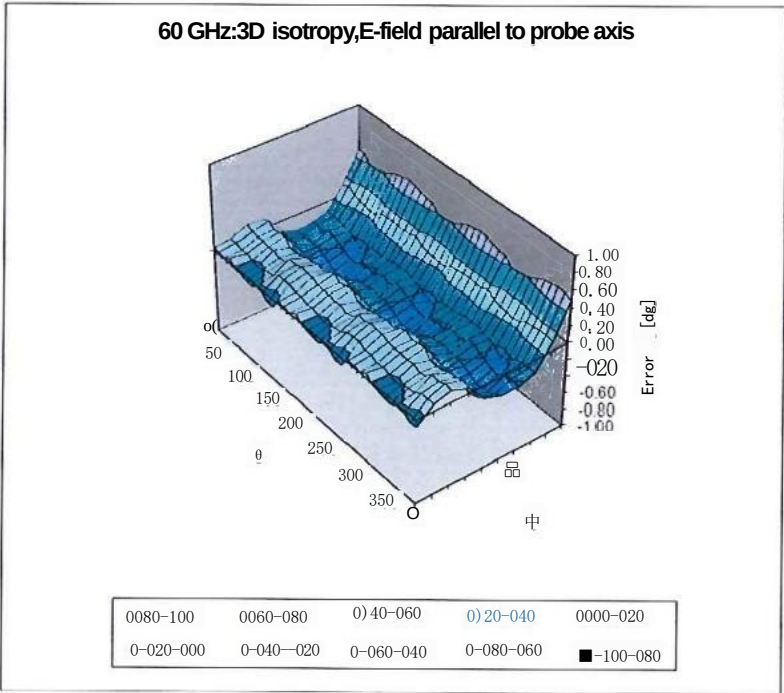
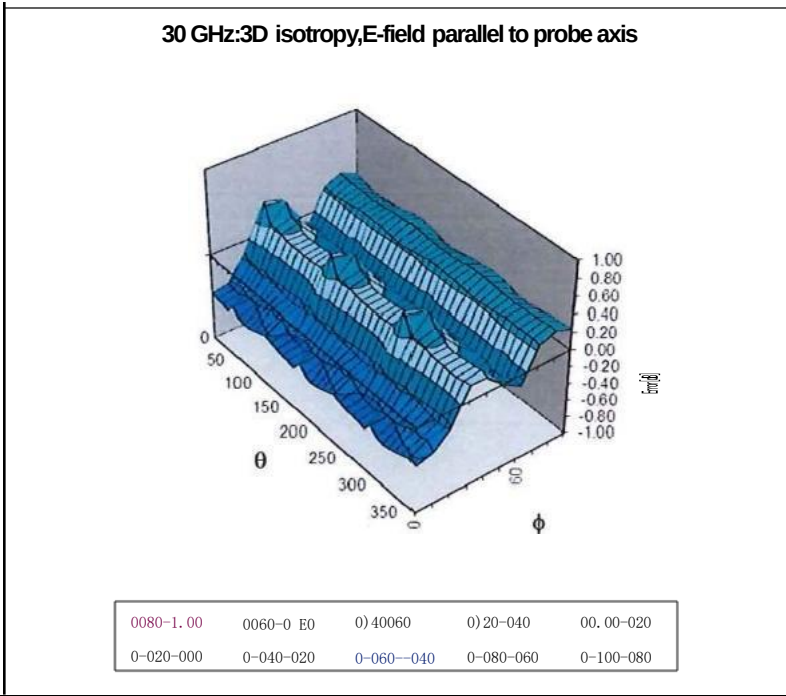
|   | C1<br>fF | C2<br>fF | a<br>V-1 | T1<br>ms. V-2 | T2<br>ms. V-1 | T3<br>ms | T4<br>V-2 | T5<br>V-1 | T6   |
|---|----------|----------|----------|---------------|---------------|----------|-----------|-----------|------|
| X | 54.7     | 394.44   | 33.26    | 0.92          | 8.02          | 4.99     | 0.00      | 1.89      | 1.01 |
| Y | 52.9     | 383.09   | 33.59    | 2.38          | 6.63          | 5.02     | 0.00      | 1.99      | 1.01 |

## Other Probe Parameters

|                                         |             |
|-----------------------------------------|-------------|
| Sensor Arrangement                      | Rectangular |
| Connector Angle (°)                     | -46.9       |
| Mechanical Surface Detection Mode       | enabled     |
| Optical Surface Detection Mode          | disabled    |
| Probe Overall Length                    | 320 mm      |
| Probe Body Diameter                     | 8 mm        |
| Tip Length                              | 23 mm       |
| Tip Diameter                            | 8.0 mm      |
| Probe Tip to Sensor X Calibration Point | 1.5 mm      |
| Probe Tip to Sensor Y Calibration Point | 1.5 mm      |

# Deviation from Isotropy in Air

f=30,60 GHz



Probe isotropy for Eioi:probe rotated  $\varphi=0^{\circ}$  to  $360^{\circ}$ ,tited from field propagation direction  
Parallel to the field propagation( $y=0^{\circ}$ - $90^{\circ}$ )at 30 GHz:deviation within $\pm 0.47$  dB  
Parallel to the field propagation( $y=0^{\circ}$ - $90^{\circ}$ )at 60 GHz:deviation within $\pm 0.43$  dB

## Appendix: Modulation Calibration Parameters

| UID   | Rev | Communication System Name                         | Group     | PAR (dB) | UncE (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 | 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 | 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 | S-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 % |
| 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 | CAD | EEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)   | WLAN    | 8.10  | ±9.6 % |
| 10115 | CAD | EEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)   | WLAN    | 8.46  | ±9.6 % |
| 10116 | CAD | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN    | 8.15  | ±9.6 % |
| 10117 | CAD | 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 | EEE 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 | CAG | LTE-TDD (SC-FDMA, 50%RB, 20 MHz, 16-QAM)       | LTE-TDD | 9.92  | ±9.6 % |
| 10153 | 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 | CAG | LTE-FDD (SC-FDMA, 50%RB, 5 MHz, QPSK)          | LTE-FDD | 5.79  | ±9.6 % |
| 10157 | 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 | 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 | 6.21  | ±9.6 % |
| 10168 | CAF | LTE-FDD (SC-FDMA, 50%RB, 1.4 MHz, 64-QAM)      | LTE-FDD | 6.79  | ±9.6 % |
| 10169 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-FDD | 5.73  | ±9.6 % |
| 10170 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-FDD | 6.52  | ±9.6 % |
| 10171 | AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-FDD | 6.49  | ±9.6 % |
| 10172 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-TDD | 9.21  | ±9.6 % |
| 10173 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-TDD | 9.48  | ±9.6 % |
| 10174 | CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-TDD | 10.25 | ±9.6 % |
| 10175 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)          | LTE-FDD | 5.72  | ±9.6 % |
| 10176 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)        | LTE-FDD | 6.52  | ±9.6 % |
| 10177 | CA1 | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)           | LTE-FDD | 5.73  | ±9.6 % |
| 10178 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         | LTE-FDD | 6.52  | ±9.6 % |
| 10179 | CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)        | LTE-FDD | 6.50  | ±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)          | LTE-FDD | 5.73  | ±9.6 % |

|       |     |                                               |         |       |        |
|-------|-----|-----------------------------------------------|---------|-------|--------|
| 10182 | CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)       | LTE-FDD | 6.52  | ±9.6 % |
| 10183 | AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)       | LTE-FDD | 6.50  | ±9.6 % |
| 10184 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | LTE-FDD | 5.73  | ±9.6 % |
| 10185 | CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | LTE-FDD | 6.51  | ±9.6 % |
| 10186 | AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | LTE-FDD | 6.50  | ±9.6 % |
| 10187 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | LTE-FDD | 5.73  | ±9.6 % |
| 10188 | CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | LTE-FDD | 6.52  | ±9.6 % |
| 10189 | AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | LTE-FDD | 6.50  | ±9.6 % |
| 10193 | CAD | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | WLAN    | 8.09  | ±9.6 % |
| 10194 | CAD | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN    | 8.12  | ±9.6 % |
| 10195 | CAD | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN    | 8.21  | ±9.6 % |
| 10196 | CAD | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | WLAN    | 8.10  | ±9.6 % |
| 10197 | CAD | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | WLAN    | 8.13  | ±9.6 % |
| 10198 | CAD | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | WLAN    | 8.27  | ±9.6 % |
| 10219 | CAD | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | WLAN    | 8.03  | ±9.6 % |
| 10220 | CAD | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | WLAN    | 8.13  | ±9.6 % |
| 10221 | CAD | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | WLAN    | 8.27  | ±9.6 % |
| 10222 | CAD | 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 | CAB | UMTS-FDD (HSPA+)                              | WCDMA   | 5.97  | ±9.6 % |
| 10226 | 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 % |
| 10228 | CAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | LTE-TDD | 9.22  | ±9.6 % |
| 10229 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | LTE-TDD | 9.48  | ±9.6 % |
| 10230 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | LTE-TDD | 10.25 | ±9.6 % |
| 10231 | CAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | LTE-TDD | 9.19  | ±9.6 % |
| 10232 | CAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)        | 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 % |
| 10236 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)       | LTE-TDD | 10.25 | ±9.6 % |
| 10237 | CAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)         | LTE-TDD | 9.21  | ±9.6 % |
| 10238 | CAF | 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 | CAF | 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 | CAB | 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 % |
| 10246 | CAD | 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 | 9.29  | ±9.6 % |
| 10250 | CAG | LTE-TDD (SC-FDMA, 50%RB, 10 MHz, 16-QAM)      | LTE-TDD | 9.81  | ±9.6 % |
| 10251 | CAG | LTE-TDD (SC-FDMA, 50%RB, 10 MHz, 64-QAM)      | LTE-TDD | 10.17 | ±9.6 % |
| 10252 | CAG | 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 | CAF | LTE-TDD (SC-FDMA, 50%RB, 15 MHz, 64-QAM)      | LTE-TDD | 10.14 | ±9.6 % |
| 10255 | CAF | 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 | CAB | LTE-TDD (SC-FDMA, 100%RB, 1.4 MHz, 64-QAM)    | LTE-TDD | 10.08 | ±9.6 % |
| 10258 | CAB | 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 | CAD | LTE-TDD (SC-FDMA, 100%RB, 3 MHz, 64-QAM)      | LTE-TDD | 9.97  | ±9.6 % |

|       |     |                                                               |          |       |        |
|-------|-----|---------------------------------------------------------------|----------|-------|--------|
| 10261 | CAD | 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 | CAG | 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 | CAF | LTE-TDD(SC-FDMA, 100%RB, 15 MHz, 64-QAM)                      | LTE-TDD  | 10.13 | ±9.6 % |
| 10270 | CAF | 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 % |
| 10275 | CAB | UMTS-FDD(HSUPA, Subtest 5, 3GPP Rel8.4)                       | WCDMA    | 3.96  | ±9.6 % |
| 10277 | CAA | PHS(QPSK)                                                     | PHS      | 11.81 | ±9.6 % |
| 10278 | CAA | PHS(QPSK, BW 884MHz, Rolloff 0.5)                             | PHS      | 11.81 | ±9.6 % |
| 10279 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                           | PHS      | 12.18 | ±9.6 % |
| 10290 | AAB | CDMA2000, RC1, S055, Full Rate                                | CDMA2000 | 3.91  | ±9.6 % |
| 10291 | AAB | CDMA2000, RC3, S055, Full Rate                                | CDMA2000 | 3.46  | ±9.6 % |
| 10292 | AAB | CDMA2000, RC3, S032, Full Rate                                | CDMA2000 | 3.39  | ±9.6 % |
| 10293 | AAB | CDMA2000, RC3, S03, Full Rate                                 | CDMA2000 | 3.50  | ±9.6 % |
| 10295 | AAB | CDMA2000, RC1, S03, 1/8th Rate 25 fr                          | CDMA2000 | 12.49 | ±9.6 % |
| 10297 | AAD | LTE-FDD (SC-FDMA, 50%RB, 20 MHz, QPSK)                        | LTE-FDD  | 5.81  | ±9.6 % |
| 10298 | AAD | LTE-FDD (SC-FDMA, 50%RB, 3 MHz, QPSK)                         | LTE-FDD  | 5.72  | ±9.6 % |
| 10299 | AAD | LTE-FDD(SC-FDMA, 50%RB, 3 MHz, 16-QAM)                        | LTE-FDD  | 6.39  | ±9.6 % |
| 10300 | AAD | LTE-FDD(SC-FDMA, 50%RB, 3 MHz, 64-QAM)                        | LTE-FDD  | 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)      | WiMAX    | 12.57 | ±9.6 % |
| 10303 | AAA | IEEE 802.16e WiMAX (31:15, 5ms, 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 | IEEE 802.16e WiMAX(31:15, 10ms, 10MHz, 64QAM, PUSC)           | WiMAX    | 15.24 | ±9.6 % |
| 10306 | AAA | IEEE 802.16e WiMAX(29:18, 10ms, 10MHz, 64QAM, PUSC)           | WiMAX    | 14.67 | ±9.6 % |
| 10307 | 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 | DEN 1:3                                                       | iDEN     | 10.51 | ±9.6 % |
| 10314 | AAA | DEN 1:6                                                       | iDEN     | 13.48 | ±9.6 % |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz(DSSS, 1 Mbps, 96pc 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 | AAD | 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 | AAE | IEEE 802.11ac WiFi(20MHz, 64-QAM, 99pc dc)                    | WLAN     | 8.37  | ±9.6 % |
| 10401 | AAE | IEEE 802.11ac WiFi(40MHz, 64-QAM, 99pc dc)                    | WLAN     | 8.60  | ±9.6 % |
| 10402 | AAE | 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, S032, SCHO, 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 | AAC | 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 | AAC | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)               | WLAN     | 8.32  | ±9.6 % |
| 10423 | AAC | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)            | WLAN     | 8.47  | ±9.6 % |
| 10424 | AAC | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)            | WLAN     | 8.40  | ±9.6 % |
| 10425 | AAC | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                | WLAN     | 8.41  | ±9.6 % |
| 10426 | AAC | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)              | WLAN     | 8.45  | ±9.6 % |
| 10427 | AAC | 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 % |
| 10435 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)              | LTE-TDD  | 7.82  | ±9.6 % |
| 10447 | AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)             | LTE-FDD  | 7.56  | ±9.6 % |
| 10448 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.53  | ±9.6 % |
| 10449 | AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.51  | ±9.6 % |
| 10450 | AAC | 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 | AAD | 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 | AAA | UMTS-FDD (DC-HSDPA)                                        | WCDMA    | 6.62  | ±9.6 % |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                     | CDMA2000 | 6.55  | ±9.6 % |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                     | CDMA2000 | 8.25  | ±9.6 % |
| 10460 | AAA | UMTS-FDD (WCDMA, AMR)                                      | WCDMA    | 2.39  | ±9.6 % |
| 10461 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)             | LTE-TDD  | 7.82  | ±9.6 % |
| 10462 | AAB | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)           | LTE-TDD  | 8.30  | ±9.6 % |
| 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 | 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 | 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, UL Sub)            | LTE-TDD  | 8.39  | ±9.6 % |
| 10484 | AAC | 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  | 7.70  | ±9.6 % |

|       |     |                                                     |         |      |        |
|-------|-----|-----------------------------------------------------|---------|------|--------|
| 10489 | AAF | 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 | AAE | LTE-TDD (SC-FDMA, 50%RB, 15 MHz, QPSK, 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 | AAE | 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 | AAF | LTE-TDD (SC-FDMA, 50%RB, 20 MHz, 64-QAM, 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 % |
| 10499 | AAB | LTE-TDD (SC-FDMA, 100%RB, 1.4 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.68 | ±9.6 % |
| 10500 | AAC | LTE-TDD (SC-FDMA, 100%RB, 3 MHz, QPSK, UL Sub)      | LTE-TDD | 7.67 | ±9.6 % |
| 10501 | AAC | LTE-TDD (SC-FDMA, 100%RB, 3 MHz, 16-QAM, UL Sub)    | LTE-TDD | 8.44 | ±9.6 % |
| 10502 | AAC | LTE-TDD (SC-FDMA, 100%RB, 3 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.52 | ±9.6 % |
| 10503 | AAF | LTE-TDD (SC-FDMA, 100%RB, 5 MHz, QPSK, UL Sub)      | LTE-TDD | 7.72 | ±9.6 % |
| 10504 | AAF | LTE-TDD (SC-FDMA, 100%RB, 5 MHz, 16-QAM, UL Sub)    | LTE-TDD | 8.31 | ±9.6 % |
| 10505 | AAF | LTE-TDD (SC-FDMA, 100%RB, 5 MHz, 64-QAM, UL Sub)    | LTE-TDD | 8.54 | ±9.6 % |
| 10506 | AAF | LTE-TDD (SC-FDMA, 100%RB, 10 MHz, QPSK, UL Sub)     | LTE-TDD | 7.74 | ±9.6 % |
| 10507 | AAF | LTE-TDD (SC-FDMA, 100%RB, 10 MHz, 16-QAM, UL Sub)   | LTE-TDD | 8.36 | ±9.6 % |
| 10508 | AAF | LTE-TDD (SC-FDMA, 100%RB, 10 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.55 | ±9.6 % |
| 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 % |
| 10511 | AAE | 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 | 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    | 1.57 | ±9.6 % |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)  | WLAN    | 1.58 | ±9.6 % |
| 10518 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)   | WLAN    | 8.23 | ±9.6 % |
| 10519 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)  | WLAN    | 8.39 | ±9.6 % |
| 10520 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)  | WLAN    | 8.12 | ±9.6 % |
| 10521 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)  | WLAN    | 7.97 | ±9.6 % |
| 10522 | AAC | 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 | AAC | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)           | WLAN    | 8.42 | ±9.6 % |
| 10527 | AAC | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)           | WLAN    | 8.21 | ±9.6 % |
| 10528 | AAC | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)           | WLAN    | 8.36 | ±9.6 % |
| 10529 | AAC | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)           | WLAN    | 8.36 | ±9.6 % |
| 10531 | AAC | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)           | WLAN    | 8.43 | ±9.6 % |
| 10532 | AAC | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)           | WLAN    | 8.29 | ±9.6 % |
| 10533 | AAC | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)           | WLAN    | 8.38 | ±9.6 % |
| 10534 | AAC | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)           | WLAN    | 8.45 | ±9.6 % |
| 10535 | AAC | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)           | WLAN    | 8.45 | ±9.6 % |
| 10536 | AAC | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)           | WLAN    | 8.32 | ±9.6 % |
| 10537 | AAC | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)           | WLAN    | 8.44 | ±9.6 % |
| 10538 | AAC | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)           | WLAN    | 8.54 | ±9.6 % |
| 10540 | AAC | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)           | WLAN    | 8.39 | ±9.6 % |
| 10541 | AAC | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)           | WLAN    | 8.46 | ±9.6 % |
| 10542 | AAC | 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 % |
| 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 | 8.39 | ±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 | AAD | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)              | WLAN | 8.48 | ±9.6 % |
| 10555 | AAD | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)              | WLAN | 8.47 | ±9.6 % |
| 10556 | AAD | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)              | WLAN | 8.50 | ±9.6 % |
| 10557 | AAD | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)              | WLAN | 8.52 | ±9.6 % |
| 10558 | AAD | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)              | WLAN | 8.61 | ±9.6 % |
| 10560 | AAD | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)              | WLAN | 8.73 | ±9.6 % |
| 10561 | AAD | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)              | WLAN | 8.56 | ±9.6 % |
| 10562 | AAD | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)              | WLAN | 8.69 | ±9.6 % |
| 10563 | AAD | 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 % |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) | WLAN | 8.45 | ±9.6 % |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc) | WLAN | 8.13 | ±9.6 % |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc) | WLAN | 8.00 | ±9.6 % |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) | WLAN | 8.37 | ±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 % |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)       | WLAN | 1.99 | ±9.6 % |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)     | WLAN | 1.98 | ±9.6 % |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)      | WLAN | 1.98 | ±9.6 % |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)  | WLAN | 8.59 | ±9.6 % |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)  | WLAN | 8.60 | ±9.6 % |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc) | WLAN | 8.70 | ±9.6 % |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc) | WLAN | 8.49 | ±9.6 % |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc) | WLAN | 8.36 | ±9.6 % |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc) | WLAN | 8.76 | ±9.6 % |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc) | WLAN | 8.35 | ±9.6 % |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc) | WLAN | 8.67 | ±9.6 % |
| 10583 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)       | WLAN | 8.59 | ±9.6 % |
| 10584 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)       | WLAN | 8.60 | ±9.6 % |
| 10585 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)      | WLAN | 8.70 | ±9.6 % |
| 10586 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)      | WLAN | 8.49 | ±9.6 % |
| 10587 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)      | WLAN | 8.36 | ±9.6 % |
| 10588 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)      | WLAN | 8.76 | ±9.6 % |
| 10589 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)      | WLAN | 8.35 | ±9.6 % |
| 10590 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)      | WLAN | 8.67 | ±9.6 % |
| 10591 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)           | WLAN | 8.63 | ±9.6 % |
| 10592 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)           | WLAN | 8.79 | ±9.6 % |
| 10593 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)           | WLAN | 8.64 | ±9.6 % |
| 10594 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)           | WLAN | 8.74 | ±9.6 % |
| 10595 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)           | WLAN | 8.74 | ±9.6 % |
| 10596 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)           | WLAN | 8.71 | ±9.6 % |
| 10597 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)           | WLAN | 8.72 | ±9.6 % |
| 10598 | AAC | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)           | WLAN | 8.50 | ±9.6 % |
| 10599 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)           | WLAN | 8.79 | ±9.6 % |
| 10600 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)           | WLAN | 8.88 | ±9.6 % |
| 10601 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)           | WLAN | 8.82 | ±9.6 % |
| 10602 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)           | WLAN | 8.94 | ±9.6 % |
| 10603 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)           | WLAN | 9.03 | ±9.6 % |
| 10604 | AAC | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)           | WLAN | 8.76 | ±9.6 % |

|       |     |                                                    |           |       |        |
|-------|-----|----------------------------------------------------|-----------|-------|--------|
| 10605 | AAC | 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 | AAC | 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 % |
| 10622 | AAC | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)          | WLAN      | 8.68  | ±9.6 % |
| 10623 | AAC | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)          | WLAN      | 8.82  | ±9.6 % |
| 10624 | AAC | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)          | WLAN      | 8.96  | ±9.6 % |
| 10625 | AAC | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)          | WLAN      | 8.96  | ±9.6 % |
| 10626 | AAC | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)          | WLAN      | 8.83  | ±9.6 % |
| 10627 | AAC | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)          | WLAN      | 8.88  | ±9.6 % |
| 10628 | AAC | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)          | WLAN      | 8.71  | ±9.6 % |
| 10629 | AAC | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)          | WLAN      | 8.85  | ±9.6 % |
| 10630 | AAC | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)          | WLAN      | 8.72  | ±9.6 % |
| 10631 | AAC | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)          | WLAN      | 8.81  | ±9.6 % |
| 10633 | AAC | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)          | WLAN      | 8.74  | ±9.6 % |
| 10633 | AAC | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)          | WLAN      | 8.83  | ±9.6 % |
| 10634 | AAC | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)          | WLAN      | 8.80  | ±9.6 % |
| 10635 | AAC | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)          | WLAN      | 8.81  | ±9.6 % |
| 10636 | AAD | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)         | WLAN      | 8.83  | ±9.6 % |
| 10637 | AAD | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)         | WLAN      | 8.79  | ±9.6 % |
| 10638 | AAD | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)         | WLAN      | 8.86  | ±9.6 % |
| 10639 | AAD | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)         | WLAN      | 8.85  | ±9.6 % |
| 10640 | AAD | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)         | WLAN      | 8.98  | ±9.6 % |
| 10641 | AAD | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)         | WLAN      | 9.06  | ±9.6 % |
| 10642 | AAD | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)         | WLAN      | 9.06  | ±9.6 % |
| 10643 | AAD | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)         | WLAN      | 8.89  | ±9.6 % |
| 10644 | AAD | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)         | WLAN      | 9.05  | ±9.6 % |
| 10645 | AAD | 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 | AAC | IEEE 802.11ax (20MHz, MCS0, 90pc dc)               | WLAN      | 9.09  | ±9.6 % |
| 10672 | AAC | IEEE 802.11ax (20MHz, MCS1, 90pc dc)               | WLAN      | 8.57  | ±9.6 % |

|       |     |                                       |      |      |        |
|-------|-----|---------------------------------------|------|------|--------|
| 10673 | AAC | IEEE 802.11ax (20MHz, MCS2, 90pc dc)  | WLAN | 8.78 | ±9.6 % |
| 10674 | AAC | IEEE 802.11ax (20MHz, MCS3, 90pc dc)  | WLAN | 8.74 | ±9.6 % |
| 10675 | AAC | IEEE 802.11ax (20MHz, MCS4, 90pc dc)  | WLAN | 8.90 | ±9.6 % |
| 10676 | AAC | IEEE 802.11ax (20MHz, MCS5, 90pc dc)  | WLAN | 8.77 | ±9.6 % |
| 10677 | AAC | IEEE 802.11ax (20MHz, MCS6, 90pc dc)  | WLAN | 8.73 | ±9.6 % |
| 10678 | AAC | IEEE 802.11ax (20MHz, MCS7, 90pc dc)  | WLAN | 8.78 | ±9.6 % |
| 10679 | AAC | IEEE 802.11ax (20MHz, MCS8, 90pc dc)  | WLAN | 8.89 | ±9.6 % |
| 10680 | AAC | IEEE 802.11ax (20MHz, MCS9, 90pc dc)  | WLAN | 8.80 | ±9.6 % |
| 10681 | AAC | IEEE 802.11ax (20MHz, MCS10, 90pc dc) | WLAN | 8.62 | ±9.6 % |
| 10682 | AAC | IEEE 802.11ax (20MHz, MCS11, 90pc dc) | WLAN | 8.83 | ±9.6 % |
| 10683 | AAC | IEEE 802.11ax (20MHz, MCS0, 99pc dc)  | WLAN | 8.42 | ±9.6 % |
| 10684 | AAC | IEEE 802.11ax (20MHz, MCS1, 99pc dc)  | WLAN | 8.26 | ±9.6 % |
| 10685 | AAC | IEEE 802.11ax (20MHz, MCS2, 99pc dc)  | WLAN | 8.33 | ±9.6 % |
| 10686 | AAC | IEEE 802.11ax (20MHz, MCS3, 99pc dc)  | WLAN | 8.28 | ±9.6 % |
| 10687 | AAC | IEEE 802.11ax (20MHz, MCS4, 99pc dc)  | WLAN | 8.45 | ±9.6 % |
| 10688 | AAC | IEEE 802.11ax (20MHz, MCS5, 99pc dc)  | WLAN | 8.29 | ±9.6 % |
| 10689 | AAC | IEEE 802.11ax (20MHz, MCS6, 99pc dc)  | WLAN | 8.55 | ±9.6 % |
| 10690 | AAC | IEEE 802.11ax (20MHz, MCS7, 99pc dc)  | WLAN | 8.29 | ±9.6 % |
| 10691 | AAC | IEEE 802.11ax (20MHz, MCS8, 99pc dc)  | WLAN | 8.25 | ±9.6 % |
| 10692 | AAC | IEEE 802.11ax (20MHz, MCS9, 99pc dc)  | WLAN | 8.29 | ±9.6 % |
| 10693 | AAC | IEEE 802.11ax (20MHz, MCS10, 99pc dc) | WLAN | 8.25 | ±9.6 % |
| 10694 | AAC | IEEE 802.11ax (20MHz, MCS11, 99pc dc) | WLAN | 8.57 | ±9.6 % |
| 10695 | AAC | IEEE 802.11ax (40MHz, MCS0, 90pc dc)  | WLAN | 8.78 | ±9.6 % |
| 10696 | AAC | IEEE 802.11ax (40MHz, MCS1, 90pc dc)  | WLAN | 8.91 | ±9.6 % |
| 10697 | AAC | IEEE 802.11ax (40MHz, MCS2, 90pc dc)  | WLAN | 8.61 | ±9.6 % |
| 10698 | AAC | IEEE 802.11ax (40MHz, MCS3, 90pc dc)  | WLAN | 8.89 | ±9.6 % |
| 10699 | AAC | IEEE 802.11ax (40MHz, MCS4, 90pc dc)  | WLAN | 8.82 | ±9.6 % |
| 10700 | AAC | IEEE 802.11ax (40MHz, MCS5, 90pc dc)  | WLAN | 8.73 | ±9.6 % |
| 10701 | AAC | IEEE 802.11ax (40MHz, MCS6, 90pc dc)  | WLAN | 8.86 | ±9.6 % |
| 10702 | AAC | IEEE 802.11ax (40MHz, MCS7, 90pc dc)  | WLAN | 8.70 | ±9.6 % |
| 10703 | AAC | IEEE 802.11ax (40MHz, MCS8, 90pc dc)  | WLAN | 8.82 | ±9.6 % |
| 10704 | AAC | IEEE 802.11ax (40MHz, MCS9, 90pc dc)  | WLAN | 8.56 | ±9.6 % |
| 10705 | AAC | 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 % |
| 10733 | AAC | 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 % |
| 10735 | 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 % |
| 10738 | 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 % |
| 10740 | AAC | IEEE 802.11ax (80MHz, MCS9, 99pc dc)          | WLAN          | 8.48 | ±9.6 % |
| 10741 | AAC | IEEE 802.11ax (80MHz, MCS10, 99pc dc)         | WLAN          | 8.40 | ±9.6 % |
| 10742 | AAC | IEEE 802.11ax (80MHz, MCS11, 99pc dc)         | WLAN          | 8.43 | ±9.6 % |
| 10743 | AAC | IEEE 802.11ax (160MHz, MCS0, 90pc dc)         | WLAN          | 8.94 | ±9.6 % |
| 10744 | AAC | IEEE 802.11ax (160MHz, MCS1, 90pc dc)         | WLAN          | 9.16 | ±9.6 % |
| 10745 | AAC | IEEE 802.11ax (160MHz, MCS2, 90pc dc)         | WLAN          | 8.93 | ±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          | 9.04 | ±9.6 % |
| 10748 | AAC | IEEE 802.11ax (160MHz, MCS5, 90pc dc)         | WLAN          | 8.93 | ±9.6 % |
| 10749 | AAC | IEEE 802.11ax (160MHz, MCS6, 90pc dc)         | WLAN          | 8.90 | ±9.6 % |
| 10750 | AAC | IEEE 802.11ax (160MHz, MCS7, 90pc dc)         | WLAN          | 8.79 | ±9.6 % |
| 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 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 7.99 | ±9.6 % |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10770 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10772 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.23 | ±9.6 % |
| 10773 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.03 | ±9.6 % |
| 10774 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.02 | ±9.6 % |
| 10775 | AAD | 5G NR (CP-OFDM, 50%RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31 | ±9.6 % |
| 10776 | AAD | 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 | AAD | 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 | AAD | 5G NR (CP-OFDM, 50%RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ±9.6 % |
| 10781 | AAD | 5G NR (CP-OFDM, 50%RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ±9.6 % |
| 10782 | AAD | 5G NR (CP-OFDM, 50%RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.43 | ±9.6 % |
| 10783 | AAE | 5G NR (CP-OFDM, 100%RB, 5 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.31 | ±9.6 % |
| 10784 | AAD | 5G NR (CP-OFDM, 100%RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ±9.6 % |

|       |     |                                                |               |      |        |
|-------|-----|------------------------------------------------|---------------|------|--------|
| 10785 | AAD | 5G NR (CP-OFDM, 100%RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.40 | ±9.6 % |
| 10786 | AAD | 5G NR (CP-OFDM, 100%RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.35 | ±9.6 % |
| 10787 | AAD | 5G NR (CP-OFDM, 100%RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.44 | ±9.6 % |
| 10788 | AAD | 5G NR (CP-OFDM, 100%RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39 | ±9.6 % |
| 10789 | AAD | 5G NR (CP-OFDM, 100%RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.37 | ±9.6 % |
| 10790 | AAD | 5G NR (CP-OFDM, 100%RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39 | ±9.6 % |
| 10791 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.83 | ±9.6 % |
| 10792 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.92 | ±9.6 % |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.95 | ±9.6 % |
| 10794 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ±9.6 % |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.84 | ±9.6 % |
| 10796 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ±9.6 % |
| 10797 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 8.01 | ±9.6 % |
| 10798 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.89 | ±9.6 % |
| 10799 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.93 | ±9.6 % |
| 10801 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.89 | ±9.6 % |
| 10802 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.87 | ±9.6 % |
| 10803 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 7.93 | ±9.6 % |
| 10805 | AAD | 5G NR (CP-OFDM, 50%RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34 | ±9.6 % |
| 10806 | AAD | 5G NR (CP-OFDM, 50%RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.37 | ±9.6 % |
| 10809 | AAD | 5G NR (CP-OFDM, 50%RB, 30 MHz, QPSK, 30 kHz)   | 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 | 8.34 | ±9.6 % |
| 10812 | AAD | 5G NR (CP-OFDM, 50%RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35 | ±9.6 % |
| 10817 | AAE | 5G NR (CP-OFDM, 100%RB, 5 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35 | ±9.6 % |
| 10818 | AAD | 5G NR (CP-OFDM, 100%RB, 10 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.34 | ±9.6 % |
| 10819 | AAD | 5G NR (CP-OFDM, 100%RB, 15 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.33 | ±9.6 % |
| 10820 | AAD | 5G NR (CP-OFDM, 100%RB, 20 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.30 | ±9.6 % |
| 10821 | AAD | 5G NR (CP-OFDM, 100%RB, 25 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41 | ±9.6 % |
| 10822 | AAD | 5G NR (CP-OFDM, 100%RB, 30 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41 | ±9.6 % |
| 10823 | AAD | 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 | 8.39 | ±9.6 % |
| 10825 | AAD | 5G NR (CP-OFDM, 100%RB, 60 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41 | ±9.6 % |
| 10827 | AAD | 5G NR (CP-OFDM, 100%RB, 80 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.42 | ±9.6 % |
| 10828 | AAD | 5G NR (CP-OFDM, 100%RB, 90 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 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 | AAD | 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 % |
| 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 | AAD | 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 | 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 % |
| 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 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.66 | ±9.6 % |
| 10898 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ±9.6 % |
| 10899 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ±9.6 % |
| 10900 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ±9.6 % |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ±9.6 % |
| 10902 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ±9.6 % |
| 10903 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ±9.6 % |
| 10904 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ±9.6 % |
| 10905 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ±9.6 % |
| 10906 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ±9.6 % |
| 10907 | AAC | 5G NR (DFT-s-OFDM, 50%RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.78 | ±9.6 % |
| 10908 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93 | ±9.6 % |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.96 | ±9.6 % |
| 10910 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83 | ±9.6 % |
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 25 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93 | ±9.6 % |
| 10912 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.84 | ±9.6 % |
| 10913 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 40 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.84 | ±9.6 % |
| 10914 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 50 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.85 | ±9.6 % |
| 10915 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 60 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83 | ±9.6 % |
| 10916 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 80 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.87 | ±9.6 % |
| 10917 | AAB | 5G NR (DFT-s-OFDM, 50%RB, 100 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.94 | ±9.6 % |
| 10918 | AAC | 5G NR (DFT-s-OFDM, 100%RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.86 | ±9.6 % |
| 10919 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86 | ±9.6 % |
| 10920 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87 | ±9.6 % |
| 10921 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ±9.6 % |
| 10922 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.82 | ±9.6 % |

|       |     |                                                     |               |       |        |
|-------|-----|-----------------------------------------------------|---------------|-------|--------|
| 10923 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84  | ±9.6 % |
| 10924 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84  | ±9.6 % |
| 10925 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.95  | ±9.6 % |
| 10926 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84  | ±9.6 % |
| 10927 | AAB | 5G NR (DFT-s-OFDM, 100%RB, 80 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.94  | ±9.6 % |
| 10928 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52  | ±9.6 % |
| 10929 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52  | ±9.6 % |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52  | ±9.6 % |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ±9.6 % |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ±9.6 % |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ±9.6 % |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51  | ±9.6 % |
| 10935 | AAD | 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 | AAC | 5G NR (DFT-s-OFDM, 50%RB, 10 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.77  | ±9.6 % |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 50%RB, 15 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.90  | ±9.6 % |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 50%RB, 20 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.82  | ±9.6 % |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 50%RB, 25 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.89  | ±9.6 % |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 50%RB, 30 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.83  | ±9.6 % |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 50%RB, 40 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.85  | ±9.6 % |
| 10943 | AAD | 5G NR (DFT-s-OFDM, 50%RB, 50 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.95  | ±9.6 % |
| 10944 | AAC | 5G NR (DFT-s-OFDM, 100%RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.81  | ±9.6 % |
| 10945 | AAC | 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 | AAC | 5G NR (DFT-s-OFDM, 100%RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.87  | ±9.6 % |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 100%RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.94  | ±9.6 % |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 100%RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.87  | ±9.6 % |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 100%RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.94  | ±9.6 % |
| 10951 | AAD | 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  | ±9.6 % |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15  | ±9.6 % |
| 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 | AAC | 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 | AAC | 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 % |
| 10978 | AAA | ULLA BDR                                            | ULLA          | 2.23  | ±9.6 % |
| 10979 | AAA | ULLA HDR4                                           | ULLA          | 7.02  | ±9.6 % |
| 10980 | AAA | ULLA HDR8                                           | ULLA          | 8.82  | ±9.6 % |
| 10981 | AAA | ULLA HDRp4                                          | ULLA          | 1.50  | ±9.6 % |
| 10982 | AAA | ULLA HDRp8                                          | ULLA          | 1.44  | ±9.6 % |
| 10983 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.31  | ±9.6 % |
| 10984 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.42  | ±9.6 % |

|       |     |                                                    |               |      |             |
|-------|-----|----------------------------------------------------|---------------|------|-------------|
| 10985 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54 | $\pm 9.6$ % |
| 10986 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50 | $\pm 9.6$ % |
| 10987 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53 | $\pm 9.6$ % |
| 10988 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38 | $\pm 9.6$ % |
| 10989 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33 | $\pm 9.6$ % |
| 10990 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52 | $\pm 9.6$ % |

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