

# **Appendix B - DAE & Probe Calibration Certificate**

| Calibration Laborator<br>Schmid & Partner<br>Engineering AG<br>Jughausstrasse 43, 8004 Zuric   |   | Hac-MRA   | <ul> <li>Schweizerischer Kalibrierdienst</li> <li>Service suisse d'étalonnage</li> <li>Servizio svizzero di taratura</li> <li>Swiss Calibration Service</li> </ul>   |
|--|---|---|--|
| Accredited by the Swiss Accredita<br>The Swiss Accreditation Servic<br>Multilateral Agreement for the r  | e is one of the signatories   | s to the EA   | on No.: SCS 0108   |
| Client SGS   |   |   | No: DAE4-1665_Feb23  |
| CALIBRATION (  | CERTIFICATE   |   |  |
| Object   | DAE4 - SD 000 D   | 04 BO - SN: 1665  |  |
| Calibration procedure(s)   | QA CAL-06.v30<br>Calibration procee   | dure for the data acquisition ele   | ectronics (DAE)  |
| Calibration date:  | February 21, 2023   | 3   |  |
| The measurements and the unce  | ertainties with confidence pro  | nal standards, which realize the physical $\mu$ obability are given on the following pages a facility: environment temperature (22 $\pm$ 3)   | and are part of the certificate.   |
| The measurements and the unce<br>All calibrations have been conduc<br>Calibration Equipment used (M&T  | rtainties with confidence pro<br>cted in the closed laboratory<br>TE critical for calibration)  | obability are given on the following pages a $r$ facility: environment temperature (22 $\pm$ 3)   | and are part of the certificate.<br>°C and humidity < 70%.   |
| The measurements and the unce<br>All calibrations have been conduc<br>Calibration Equipment used (M& <sup>2</sup><br>Primary Standards   | ertainties with confidence pro  | obability are given on the following pages a  | and are part of the certificate.   |
| The measurements and the unce  | rtainties with confidence pro<br>cted in the closed laboratory<br>TE critical for calibration)  | bability are given on the following pages a<br>r facility: environment temperature $(22 \pm 3)$<br>Cal Date (Certificate No.)   | and are part of the certificate.<br>°C and humidity < 70%.<br>Scheduled Calibration  |
| The measurements and the unce<br>All calibrations have been conduc<br>Calibration Equipment used (M&T<br>Primary Standards<br>Keithley Multimeter Type 2001  | rtainties with confidence pro-<br>cted in the closed laboratory<br>TE critical for calibration)<br>ID #<br>SN: 0810278<br>ID #<br>SE UWS 053 AA 1001  | obability are given on the following pages a         / facility: environment temperature (22 ± 3)         Cal Date (Certificate No.)         29-Aug-22 (No:34389)   | and are part of the certificate.<br>°C and humidity < 70%.<br>Scheduled Calibration<br>Aug-23  |
| The measurements and the unce<br>All calibrations have been conduc<br>Calibration Equipment used (M&T<br>Primary Standards<br>Keithley Multimeter Type 2001<br>Secondary Standards<br>Auto DAE Calibration Unit                        | rtainties with confidence pro<br>cted in the closed laboratory<br>TE critical for calibration)<br>ID #<br>SN: 0810278<br>ID #<br>SE UWS 053 AA 1001<br>SE UMS 006 AA 1002   | bability are given on the following pages a<br>(facility: environment temperature (22 ± 3)<br>Cal Date (Certificate No.)<br>29-Aug-22 (No:34389)<br>Check Date (in house)<br>27-Jan-23 (in house check)<br>27-Jan-23 (in house check)   | and are part of the certificate.<br><sup>e°</sup> C and humidity < 70%.<br><u>Scheduled Calibration</u><br>Aug-23<br><u>Scheduled Check</u><br>In house check: Jan-24<br>In house check: Jan-24  |
| The measurements and the unce<br>All calibrations have been conduc<br>Calibration Equipment used (M&T<br>Primary Standards<br>Keithley Multimeter Type 2001<br>Secondary Standards<br>Auto DAE Calibration Unit<br>Calibrator Box V2.1 | rtainties with confidence pro-<br>cted in the closed laboratory<br>TE critical for calibration)<br>ID #<br>SN: 0810278<br>ID #<br>SE UWS 053 AA 1001  | bability are given on the following pages a         facility: environment temperature (22 ± 3)         Cal Date (Certificate No.)         29-Aug-22 (No:34389)         Check Date (in house)         27-Jan-23 (in house check)   | and are part of the certificate.<br>PC and humidity < 70%.<br>Scheduled Calibration<br>Aug-23<br>Scheduled Check<br>In house check: Jan-24<br>In house check: Jan-24<br>Signature  |
| The measurements and the unce<br>All calibrations have been conduc<br>Calibration Equipment used (M&T<br>Primary Standards<br>Keithley Multimeter Type 2001<br>Secondary Standards<br>Auto DAE Calibration Unit<br>Calibrator Box V2.1 | rtainties with confidence pro<br>cted in the closed laboratory<br>TE critical for calibration)<br>ID #<br>SN: 0810278<br>ID #<br>SE UWS 053 AA 1001<br>SE UMS 006 AA 1002<br>Name                                 | bability are given on the following pages a<br>(facility: environment temperature (22 ± 3)<br>Cal Date (Certificate No.)<br>29-Aug-22 (No:34389)<br>Check Date (in house)<br>27-Jan-23 (in house check)<br>27-Jan-23 (in house check)<br>Function   | and are part of the certificate.<br><sup>e°</sup> C and humidity < 70%.<br><u>Scheduled Calibration</u><br>Aug-23<br><u>Scheduled Check</u><br>In house check: Jan-24<br>In house check: Jan-24  |
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- Schweizerischer Kalibrierdienst S C S Swiss Calibration Service
  - Service suisse d'étalonnage Servizio svizzero di taratura

Accreditation No.: SCS 0108

Glossary

DAE Connector angle

data acquisition electronics information used in DASY system to align probe sensor X to the robot coordinate system.

### Methods Applied and Interpretation of Parameters

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

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an . input voltage.
  - AD Converter Values with inputs shorted: Values on the internal AD converter ÷ corresponding to zero input voltage
  - ä Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information. Supply currents in various operating modes.

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### **DC Voltage Measurement**

| High Range: | 1LSB = | 6.1µV, | full range = | -100+300 mV |
|-------------|--------|--------|--------------|-------------|
| Low Range:  | 1LSB = | 61nV.  | full range - | -1+3mV      |

| <b>Calibration Factors</b> | Х                     | Y                     | Z                     |
|----------------------------|-----------------------|-----------------------|-----------------------|
| High Range                 | 404,550 ± 0.02% (k=2) | 404.858 ± 0.02% (k=2) | 404.807 ± 0.02% (k=2) |
| Low Range                  | 3.98072 ± 1.50% (k=2) | 4.00811 ± 1.50% (k=2) | 3.97820 ± 1.50% (k=2) |

#### **Connector Angle**

| Connector Angle to be used in DASY system | 67.5 ° ± 1 ° |
|---|--------------|
|---|--------------|

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### Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

| High Range        | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 200032.02    | -2.50           | -0.00     |
| Channel X + Input | 20005.59     | -0.53           | -0.00     |
| Channel X - Input | -20005.15    | 0.64            | -0.00     |
| Channel Y + Input | 200033.01    | -1.73           | -0.00     |
| Channel Y + Input | 20003.66     | -2.36           | -0.01     |
| Channel Y - Input | -20007.18    | -1.21           | 0.01      |
| Channel Z + Input | 200032.99    | -1.78           | -0.00     |
| Channel Z + Input | 20003.42     | -2.52           | -0.01     |
| Channel Z - Input | -20007.77    | -1.72           | 0.01      |

| Low Range         | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2001.04      | -0.39           | -0.02     |
| Channel X + Input | 201.06       | -0.31           | -0.15     |
| Channel X - Input | -199.05      | -0.47           | 0.23      |
| Channel Y + Input | 2000.96      | -0.37           | -0.02     |
| Channel Y + Input | 200.52       | -0.84           | -0.42     |
| Channel Y - Input | -200.07      | -1.43           | 0.72      |
| Channel Z + Input | 2001.11      | -0.14           | -0.01     |
| Channel Z + Input | 200.14       | -1.12           | -0.55     |
| Channel Z - Input | -199.85      | -1.03           | 0.52      |

#### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | Common mode<br>Input Voltage (mV) | High Range<br>Average Reading (μV) | Low Range<br>Average Reading (µV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200                               | -2.29                              | -4.31                             |
|           | - 200                             | 5.35                               | 2.77                              |
| Channel Y | 200                               | 1.53                               | 0.43                              |
|           | - 200                             | -3.48                              | -3.24                             |
| Channel Z | 200                               | -13.62                             | -14.08                            |
|           | - 200                             | 13.85                              | 13.14                             |

#### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Input Voltage (mV) | Channel X (µV) | Channel Y (µV) | Channel Z (µV) |
|---|--------------------|----------------|----------------|----------------|
| Channel X                               | 200                | -              | -0.04          | -2.37          |
| Channel Y                               | 200                | 4.05           | -              | 1.75           |
| Channel Z                               | 200                | 8.22           | 1.79           |                |

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# 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

|           | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16093            | 15772           |
| Channel Y | 16149            | 15031           |
| Channel Z | 16310            | 15814           |

#### 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input 10MΩ

|           | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation<br>(μV) |
|-----------|--------------|------------------|------------------|------------------------|
| Channel X | 0.14         | -1.38            | 0.92             | 0.39                   |
| Channel Y | -0.88        | -2.18            | 0.43             | 0.43                   |
| Channel Z | -0.48        | -1.66            | 0.86             | 0.44                   |

#### 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

# 7. Input Resistance (Typical values for information)

|           | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200            | 200              |
| Channel Y | 200            | 200              |
| Channel Z | 200            | 200              |

# 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | al values Alarm Level (VDC) |  |
|----------------|-----------------------------|--|
| Supply (+ Vcc) | +7.9                        |  |
| Supply (- Vcc) | -7.6                        |  |

#### 9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |  |
|----------------|-------------------|---------------|-------------------|--|
| Supply (+ Vcc) | +0.01             | +6            | +14               |  |
| Supply (- Vcc) | -0.01             | -8            | -9                |  |

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| credited by the Swiss Accre<br>e Swiss Accreditation Se<br>ultilateral Agreement for th  | editation Service (SAS)<br>rvice is one of the signate   | ories to the EA   | ccreditation No.: SCS 0108   |
| ient SGS (Auden  | 1)   | Certificate No  | EX-7686_Sep22  |
| CALIBRATION C  | ERTIFICATE   |   |  |
| Object   | EX3DV4 - SN:7  | 686   |  |
| Calibration procedure(s)   | QA CAL-25.v7   | QA CAL-12.v9, QA CAL-14.v6, C   |  |
| Calibration date   | September 27,  | 2022  |  |
| The measurements and the<br>All calibrations have been co  | uncertainties with confident   | national standards, which realize the physic<br>ce probability are given on the following page<br>ratory facility: environment temperature (22 ±<br>m)  | es and are part of the certificate.  |
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| The measurements and the<br>sul calibrations have been oc<br>calibration Equipment used<br>rimary Standards<br>ower meter NRP  | uncertainties with confidence on ducted in the closed labor (M&TE critical for calibratio  | ce probability are given on the following page<br>ratory facility: environment temperature (22 ±<br>m)<br>Cal Date (Certificate No.)<br>04-Apr-22 (No. 217-03525/03524)   | es and are part of the certificate.<br>:3) °C and humidity < 70%.<br>Scheduled Calibration<br>Apr-23   |
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Certificate No: EX-7686\_Sep22

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Unless otherwise stated the results shown in this test report reter only to the sample(s) lested and such sample(s) are retained to 90 days only. Mir#JSfabity i, Lt&Bateger and the company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com.tw/Terms-and-Conditions">http://www.sgs.com.tw/Terms-and-Conditions</a> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com.tw/Terms-and-Conditions">http://www.sgs.com.tw/Terms-and-Conditions</a> and for electronic format defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleest extent of the law. prosecuted to the fullest extent of the law.

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



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

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Accreditation No.: SCS 0108

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

#### Glossarv

| TSL                    | tissue simulating liquid   |
|------------------------|--|
| NORMx,y,z              | sensitivity in free space  |
| ConvF                  | sensitivity in TSL / NORMx,y,z   |
| DCP                    | diode compression point  |
| CF                     | crest factor (1/duty cycle) of the RF signal   |
| A, B, C, D             | modulation dependent linearization parameters  |
| Polarization $\varphi$ | φ rotation around probe axis   |
| Polarization $\theta$  | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle        | information used in DASY system to align probe sensor X to the robot coordinate system   |

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

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

#### Methods Applied and Interpretation of Parameters:

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

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#### EX3DV4 - SN:7686

#### September 27, 2022

### Parameters of Probe: EX3DV4 - SN:7686

**Basic Calibration Parameters** 

|                    | Sensor X | Sensor Y | Sensor Z | Unc $(k = 2)$ |
|--------------------|----------|----------|----------|---------------|
| Norm (µV/(V/m)2) A | 0.68     | 0.66     | 0.52     | ±10.1%        |
| DCP (mV) B         | 105.0    | 104.5    | 101.8    | ±4.7%         |

#### **Calibration Results for Modulation Response**

| UID   | Communication System Name  |   | A<br>dB | B<br>dBõV | c     | D<br>dB | VR<br>mV | Max<br>dev. | Max<br>Unc <sup>E</sup><br>k = 2 |
|-------|--|---|---------|-----------|-------|---------|----------|-------------|----------------------------------|
| 0     | CW   | X | 0.00    | 0.00      | 1.00  | 0.00    | 160.8    | ±3.0%       | ±4.7%                            |
|       |  | Y | 0.00    | 0.00      | 1.00  |         | 169.3    |             |                                  |
|       | the second second second   | Z | 0.00    | 0.00      | 1.00  |         | 169.0    | 100 a 1     | 100                              |
| 10352 | Pulse Waveform (200Hz, 10%)  | X | 1.33    | 60.00     | 5.88  | 10.00   | 60.0     | ±3.0%       | ±9.6%                            |
|       | Contract set of the set  | Y | 1.59    | 60.97     | 6.43  |         | 60.0     |             |                                  |
|       |  | Z | 1.41    | 60.34     | 6.27  |         | 60.0     |             |                                  |
| 10353 | Pulse Waveform (200Hz, 20%)  | X | 0.82    | 60.00     | 4.70  | 6.99    | 80.0     | ±2.5%       | ±9.6%                            |
|       | 10174 SALE 1 (5 24)  | Y | 0.78    | 60.00     | 4.78  |         | 80.0     | 1000        | 10.00                            |
|       | and a second second  | Z | 0.78    | 60.00     | 4.90  |         | 80.0     |             |                                  |
| 10354 | Pulse Waveform (200Hz, 40%)  | X | 0.03    | 130.22    | 0.01  | 3.98    | 95.0     | ±2.6%       | ±9.6%                            |
|       |  | Y | 0.30    | 153.55    | 2.27  |         | 95.0     |             |                                  |
|       | in the second second second  | Z | 0.01    | 126.20    | 0.15  |         | 95.0     |             |                                  |
| 0355  | Pulse Waveform (200Hz, 60%)  | X | 3.80    | 159.60    | 12.65 | 2.22    | 120.0    | ±1.6%       | ±9.6%                            |
|       | · · · · · · · · · · · · · · · · · · ·  | Y | 6.60    | 160.00    | 16.65 |         | 120.0    |             | Carlier,                         |
|       |  | Z | 4.46    | 159.86    | 14.10 |         | 120.0    |             |                                  |
| 0387  | QPSK Waveform, 1 MHz   | X | 0.68    | 65.45     | 13.04 | 1.00    | 150.0    | ±4.7%       | ±9.6%                            |
|       |  | Y | 0.73    | 65.95     | 13.48 |         | 150.0    |             |                                  |
|       | and the local designed in the  | Z | 0.69    | 65.61     | 13.17 |         | 150.0    |             |                                  |
| 0388  | QPSK Waveform, 10 MHz  | X | 1.43    | 66.24     | 14.47 | 0.00    | 150.0    | ±1.2%       | ±9.6%                            |
|       |  | Y | 1.49    | 66.50     | 14.55 |         | 150.0    |             |                                  |
|       |  | Z | 1.45    | 66.34     | 14.46 |         | 150.0    |             |                                  |
| 0396  | 64-QAM Waveform, 100 kHz   | X | 1.65    | 64.45     | 16.28 | 3.01    | 150.0    | ±1.9%       | ±9.6%                            |
|       |  | Y | 1.76    | 65.36     | 17.81 |         | 150.0    |             | 121.04                           |
|       |  | Z | 1.70    | 65.16     | 17.57 |         | 150.0    | _           |                                  |
| 0399  | 64-QAM Waveform, 40 MHz  | X | 2.99    | 66.76     | 15.50 | 0.00    | 150.0    | ±2.4%       | ±9.6%                            |
|       | the second se  | Y | 2.93    | 66.35     | 15.27 |         | 150.0    |             |                                  |
|       | and the second | Z | 2.89    | 66.17     | 15.23 |         | 150.0    | 1           |                                  |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz  | X | 4.07    | 66.24     | 15.63 | 0.00    | 150.0    | ±4.2%       | ±9.6%                            |
|       | Construction of Alling as a first  | Y | 3.97    | 65.87     | 15.40 |         | 150.0    | 1000        |                                  |
|       |  | Z | 4.10    | 66.47     | 15.74 |         | 150.0    |             |                                  |

Note: For details on UID parameters see Appendix

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

A The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6). B Linearization parameter uncertainty for maximum specified field strength. E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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#### EX3DV4 - SN:7686

September 27, 2022

#### Parameters of Probe: EX3DV4 - SN:7686

#### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | ν <sup>α</sup><br>V <sup>-1</sup> | T1<br>ms V <sup>-2</sup> | T2<br>msV <sup>-1</sup> | T3<br>ms | T4<br>V <sup>-2</sup> | T5<br>V <sup>-1</sup> | TG   |
|---|----------|----------|-----------------------------------|--------------------------|-------------------------|----------|-----------------------|-----------------------|------|
| X | 12.4     | 92.42    | 35.38                             | 4.64                     | 0.00                    | 4.92     | 0.28                  | 0.02                  | 1.00 |
| y | 11.8     | 87.33    | 34.80                             | 2.43                     | 0.00                    | 4.90     | 0.00                  | 0.00                  | 1.02 |
| z | 11.8     | 88.53    | 35.82                             | 2.72                     | 0.00                    | 4.93     | 0.00                  | 0.00                  | 1.01 |

#### **Other Probe Parameters**

| Sensor Arrangement                            | Triangular |
|---|------------|
| Connector Angle                               | 125.6°     |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

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

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September 27, 2022

#### Parameters of Probe: EX3DV4 - SN:7686

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative<br>Permittivity <sup>F</sup> | Conductivity <sup>F</sup><br>(S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup><br>(mm) | Unc<br>(k = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|----------------|
| 750                  | 41.9                                  | 0.89                               | 10.65   | 10.65   | 10.65   | 0.43               | 0.98                       | ±12.0%         |
| 835                  | 41.5                                  | 0.90                               | 10.37   | 10.37   | 10.37   | 0.34               | 1.04                       | ±12.0%         |
| 900                  | 41.5                                  | 0.97                               | 10.10   | 10.10   | 10.10   | 0.32               | 1.04                       | ±12.0%         |
| 1450                 | 40.5                                  | 1.20                               | 9.42    | 9.42    | 9.42    | 0.39               | 0.80                       | ±12.0%         |
| 1750                 | 40.1                                  | 1.37                               | 9.19    | 9.19    | 9.19    | 0.38               | 0.86                       | ±12.0%         |
| 1900                 | 40.0                                  | 1.40                               | 8.80    | 8.80    | 8.80    | 0.36               | 0.86                       | ±12.0%         |
| 2000                 | 40.0                                  | 1.40                               | 8.74    | 8.74    | 8.74    | 0.31               | 0.86                       | ±12.0%         |
| 2300                 | 39.5                                  | 1.67                               | 8.54    | 8.54    | 8.54    | 0.39               | 0.90                       | ±12.0%         |
| 2450                 | 39.2                                  | 1.80                               | 8.28    | 8.28    | 8.28    | 0.43               | 0.90                       | ±12.0%         |
| 2600                 | 39.0                                  | 1.96                               | 7.98    | 7.98    | 7.98    | 0.43               | 0.90                       | ±12.0%         |
| 3300                 | 38.2                                  | 2.71                               | 7.47    | 7.47    | 7.47    | 0.30               | 1.35                       | ±13,1%         |
| 3500                 | 37.9                                  | 2.91                               | 7.40    | 7.40    | 7.40    | 0.30               | 1.35                       | ±13.1%         |
| 3700                 | 37.7                                  | 3.12                               | 7.30    | 7.30    | 7.30    | 0.30               | 1.35                       | ±13.1%         |
| 3900                 | 37.5                                  | 3.32                               | 6.94    | 6.94    | 6.94    | 0.40               | 1.60                       | ±13.1%         |
| 4100                 | 37.2                                  | 3.53                               | 6.80    | 6.80    | 6.80    | 0.40               | 1.60                       | ±13.1%         |
| 4200                 | 37.1                                  | 3.63                               | 6.48    | 6.48    | 6.48    | 0.40               | 1.70                       | ±13.1%         |
| 4400                 | 36.9                                  | 3.84                               | 6.42    | 6.42    | 6.42    | 0.40               | 1.70                       | ±13.1%         |
| 4600                 | 36.7                                  | 4.04                               | 6.41    | 6.41    | 6.41    | 0.40               | 1.70                       | ±13.1%         |
| 4800                 | 36.4                                  | 4.25                               | 6.35    | 6.35    | 6.35    | 0.40               | 1.80                       | ±13.1%         |
| 4950                 | 36.3                                  | 4.40                               | 6.32    | 6.32    | 6.32    | 0.40               | 1.80                       | ±13.1%         |
| 5250                 | 35.9                                  | 4.71                               | 5.84    | 5.84    | 5.84    | 0.40               | 1.80                       | ±13.1%         |
| 5600                 | 35.5                                  | 5.07                               | 5.19    | 5.19    | 5.19    | 0.40               | 1.80                       | ±13.1%         |
| 5750                 | 35.4                                  | 5.22                               | 5.33    | 5.33    | 5.33    | 0.40               | 1.80                       | ±13.1%         |

<sup>C</sup> Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz to S=00 MHz to S=00 MHz is ±10, 25, 40, 50 and 70 MHz to S=00 MHz to S=00 MHz is 0.64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 6 MHz is 5–10 MHz. Above 504: Cherquency solid can be extended to ±10 MHz. The validity of tissue parameters (*a* and *a*) can be relaxed to ±10 WHz.

indicator target issue parameters. G 20 Applagets are determined by the second se boundary.

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EX3DV4 - SN:7686

September 27, 2022

#### Parameters of Probe: EX3DV4 - SN:7686

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative<br>Permittivity <sup>F</sup> | Conductivity <sup>F</sup><br>(S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup><br>(mm) | Unc<br>(k = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|----------------|
| 6500                 | 34.5                                  | 6.07                               | 6.25    | 6.25    | 6.25    | 0.20               | 2.50                       | ±18.6%         |
| 7000                 | 33.9                                  | 6.65                               | 6.17    | 6.17    | 6.17    | 0.25               | 2.50                       | ±18.6%         |

<sup>C</sup> Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
<sup>F</sup> At frequencies 6-10 GHz, the validity of tissue parameters (*c* and *o*) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty is the RSS of the ConvF uncertainty is a splited to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty is uncertainty is the RSS of the ConvF uncertainty uncertainty is the RSS of the ConvF uncertainty uncertainty

than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

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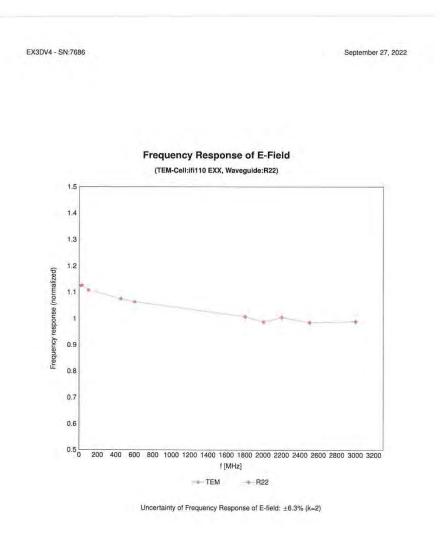
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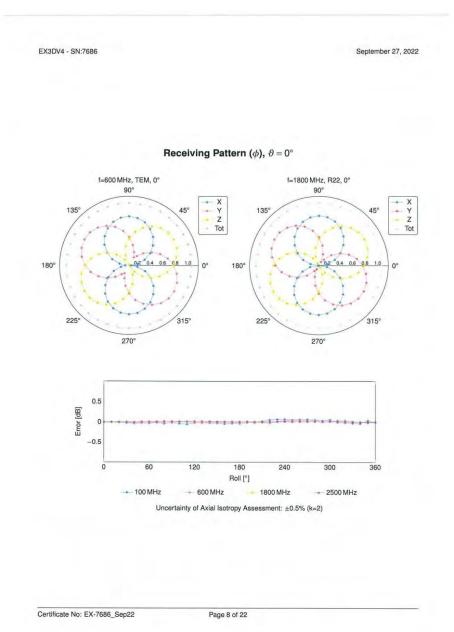
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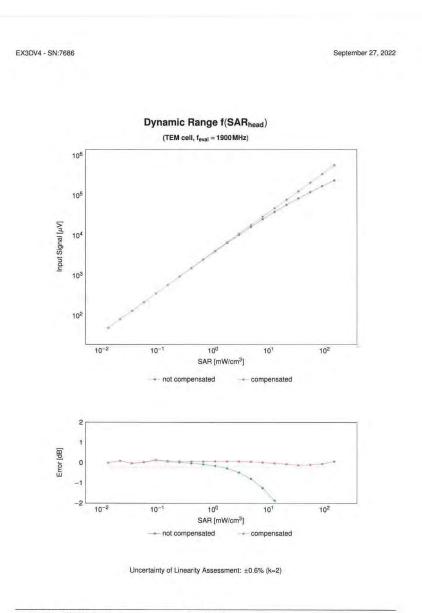
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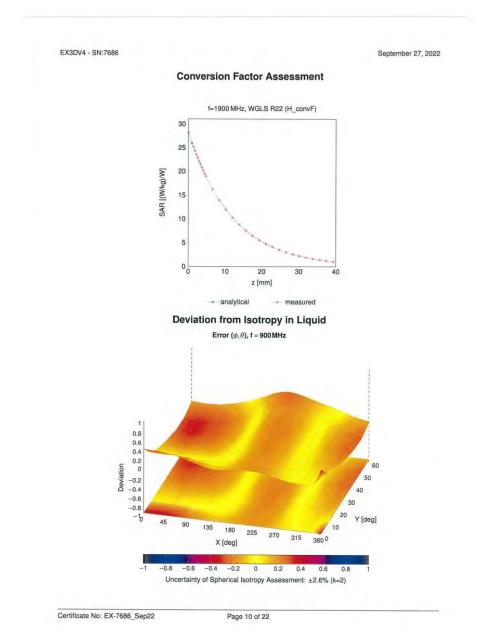
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September 27, 2022

#### Appendix: Modulation Calibration Parameters

| UID            | Rev  | Communication System Name  | Group      | PAR (dB) | $Unc^E k = 2$ |
|----------------|------|--|------------|----------|---------------|
| 0              | 0.47 | CW   | CW         | 0.00     | ±4.7          |
| 10010          | CAA  | SAR Validation (Square, 100 ms, 10 ms)   | Test       | 10.00    | ±9.6          |
| 10011          | CAB  | UMTS-FDD (WCDMA)   | WCDMA      | 2.91     | ±9.6          |
|                | CAB  | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps)   | WLAN       | 1.87     | ±9.6          |
| 10013          | DAC  | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)<br>GSM-FDD (TDMA, GMSK)                  | WLAN       | 9.46     | ±9.6          |
| 10021          | DAC  | GPRS-FDD (TDMA, GMSK, TN 0)  | GSM<br>GSM | 9.39     | ±9.6<br>±9.6  |
| 10024          | DAC  | GPRS-FDD (TDMA, GMSK, TN 0-1)  | GSM        | 6.56     |               |
| 10025          | DAC  | EDGE-FDD (TDMA, BPSK, TN 0)  | GSM        | 12.62    | ±9.6<br>±9.6  |
| 10026          | DAC  | EDGE-FDD (TDMA, BPSK, 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<br>10063 | 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          |
| 10065          | CAD  | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)<br>IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | WLAN       | 9.09     | ±9.6          |
| 10066          | CAD  | IEEE 802.11a/h WiFI 5 GHz (OFDM, 18 Mops)  | WLAN       | 9.00     | ±9.6          |
| 10067          | CAD  | IEEE 802.11a/h WiFI 5 GHz (OFDM, 24 Mbps)  | WLAN       | 9.38     | ±9.6          |
| 10068          | CAD  | IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps)  | WLAN       | 10.12    | ±9.6          |
| 10069          | CAD  | IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps)  | WLAN       | 10.24    | ±9.6          |
| 10071          | CAB  | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)  | WLAN       | 9.83     | ±9.6          |
| 10072          | CAB  | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)   | WLAN       | 9.62     | ±9.6          |
| 10073          | CAB  | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)   | WLAN       | 9.94     | ±9.6          |
| 10074          | CAB  | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)   | WLAN       | 10.30    | ±9.6          |
| 10075          | CAB  | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)   | WLAN       | 10.77    | ±9.6          |
| 10076          | CAB  | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps)   | WLAN       | 10.94    | ±9.6          |
| 10077          | CAB  | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps)   | WLAN       | 11.00    | ±9.6          |
| 10081          | CAB  | CDMA2000 (1xRTT, RC3)  | CDMA2000   | 3.97     | ±9.6          |
| 10082          | CAB  | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)                                    | AMPS       | 4.77     | ±9.6          |
| 10090          | DAC  | GPRS-FDD (TDMA, GMSK, TN 0-4)  | GSM        | 6.56     | ±9.6          |
| 10097          | CAC  | UMTS-FDD (HSDPA)   | WCDMA      | 3.98     | ±9.6          |
| 10098          | DAC  | UMTS-FDD (HSUPA, Subtest 2)  | WCDMA      | 3.98     | ±9.6          |
| 10099          | CAC  | EDGE-FDD (TDMA, 8PSK, TN 0-4)  | GSM        | 9.55     | ±9.6          |
| 10100          | CAC  | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)   | LTE-FDD    | 5.67     | ±9.6          |
| 10101          | CAB  | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)   | LTE-FDD    | 6.42     | ±9.6          |
| 10102          | CAB  | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)   | LTE-FDD    | 6.60     | ±9.6          |
| 10103          | DAC  | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)   | LTE-TDD    | 9.29     | ±9.6          |
| 10104          | CAE  | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)   | LTE-TDD    | 9.97     | ±9.6          |
| 10105          | CAE  | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)   | LTE-TDD    | 10.01    | ±9.6          |
| 10108          | CAE  | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)   | LTE-FDD    | 5.80     | ±9,6          |
| 10109          | 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          |

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September 27, 2022

| UID   | Rev | Communication System Name                      | Group   | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|--|---------|----------|------------------------|
| 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 | CAG | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | WLAN    | 8.10     | ±9.6                   |
| 10115 | CAG | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | WLAN    | 8.46     | ±9.6                   |
| 10116 | CAG | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN    | 8.15     | ±9.6                   |
| 10117 | CAG | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | WLAN    | 8.07     | ±9.6                   |
| 10118 | CAD | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | WLAN    | 8.59     | ±9.6                   |
| 10119 | CAD | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | WLAN    | 8.13     | ±9.6                   |
| 10140 | CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | LTE-FDD | 6.49     | ±9.6                   |
| 10141 | CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | LTE-FDD | 6.53     | ±9.6                   |
| 10142 | CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | LTE-FDD | 5.73     | ±9.6                   |
| 10143 | CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | LTE-FDD | 6.35     | ±9.6                   |
| 10144 | CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | LTE-FDD | 6.65     | ±9.6                   |
| 10145 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | LTE-FDD | 5.76     | ±9.6                   |
| 10146 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | LTE-FDD | 6.41     | 19.6                   |
| 10147 | CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | LTE-FDD | 6.72     | ±9.6                   |
| 10149 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-FDD | 6.42     | ±9.6                   |
| 10150 | CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-FDD | 6.60     | ±9.6                   |
| 10151 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)        | LTE-TDD | 9.28     | ±9,6                   |
| 10152 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-TDD | 9.92     | ±9.6                   |
| 10153 | CAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-TDD | 10.05    | ±9.6                   |
| 10154 | CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)        | LTE-FDD | 5.75     | ±9.6                   |
| 10155 | CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)      | LTE-FDD | 6.43     | ±9.6                   |
| 10156 | CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)         | LTE-FDD | 5.79     | ±9.6                   |
| 10157 | CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)       | LTE-FDD | 6.49     | ±9.6                   |
| 10158 | CAE | 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 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)        | LTE-FDD | 5.82     | ±9.6                   |
| 10161 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)      | LTE-FDD | 6.43     | ±9.6                   |
| 10162 | CAG | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)      | LTE-FDD | 6.58     | ±9.6                   |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)       | LTE-FDD | 5.46     | ±9.6                   |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)     | LTE-FDD | 6.21     | ±9.6                   |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)     | LTE-FDD | 6.79     | ±9.6                   |
| 10169 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, OPSK)          | LTE-FDD | 5.73     | ±9.6                   |
| 10170 | CAG | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-FDD | 6.52     | ±9.6                   |
| 10171 | CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-FDD | 6.49     | ±9.6                   |
| 10172 | CAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-TDD | 9.21     | ±9.6                   |
| 10173 | CAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-TDD | 9.48     | ±9.6                   |
| 10174 | CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-TDD | 10.25    | ±9.6                   |
| 10175 | CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)          | LTE-FDD | 5.72     | ±9.6                   |
| 10176 | CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)        | LTE-FDD | 6.52     | ±9.6                   |
| 10177 | CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)           | LTE-FDD | 5.73     | ±9.6                   |
| 10178 | CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         | LTE-FDD | 6.52     | ±9.6                   |
| 10179 | AAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)        | LTE-FDD | 6.50     | ±9.6                   |
| 10180 | CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         | LTE-FDD | 6.50     | ±9.6                   |
| 10181 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)          | LTE-FDD | 5.72     | ±9.6                   |
| 10182 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)        | LTE-FDD | 6.52     | ±9.6                   |
| 10183 | CAG | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)        | LTE-FDD | 6.50     | ±9.6                   |
| 10184 | CAG | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)           | LTE-FDD | 5.73     | ±9.6                   |
| 10185 | CAI | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         | LTE-FDD | 6.51     | ±9.6                   |
| 10186 | CAG | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         | LTE-FDD | 6.50     | ±9.6                   |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         | LTE-FDD | 5.73     | ±9.6                   |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)       | LTE-FDD | 6.52     | ±9.6                   |
| 10189 | CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)       | LTE-FDD | 6.50     | ±9.6                   |
| 10193 | CAE | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)   | WLAN'   | 8.09     | ±9.6                   |
| 10194 | AAD | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)  | WLAN    | 8.12     | ±9.6                   |
| 10195 | CAE | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)  | WLAN    | 8.21     | ±9.6                   |
| 10196 | CAE | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)        | WLAN    | 8.10     | ±9.6                   |
| 10197 | AAE | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)       | WLAN    | 8.13     | ±9.6                   |
| 10198 | CAF | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)       | WLAN    | 8.27     | ±9.6                   |
| 10219 | CAF | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)        | WLAN    | 8.03     | ±9.6                   |
| 10220 | AAF | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)     | WLAN    | 8.13     | ±9.6                   |
| 10221 | CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)     | WLAN    | 8.27     | ±9.6                   |
| 10222 | CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)         | WLAN    | 8.06     | ±9.6                   |
| 10223 | CAD | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)       | WLAN    | 8.48     | ±9.6                   |
| 10224 | CAD | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)      | WLAN    | 8.08     | ±9.6                   |

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 4 - SN:7865

 VID
 Rev
 Communication System Name

 10225
 CAD
 LITE-TDD (SC-FDMA, 1RB, 1.4MHz, 16-QAM)

 10227
 CAD
 LITE-TDD (SC-FDMA, 1RB, 1.4MHz, 16-QAM)

 10228
 CAD
 LITE-TDD (SC-FDMA, 1RB, 1.4MHz, 16-QAM)

 10229
 CAD
 LITE-TDD (SC-FDMA, 1RB, 1.4MHz, 16-QAM)

 10230
 CAD
 LITE-TDD (SC-FDMA, 1RB, 1.4MHz, 16-QAM)

 10231
 CAD
 LITE-TDD (SC-FDMA, 1RB, 1.5MHz, 16-QAM)

 10232
 CAD
 LITE-TDD (SC-FDMA, 1RB, 15MHz, 16-QAM)

 10234
 CAD
 LITE-TDD (SC-FDMA, 1RB, 15MHz, 16-QAM)

 10235
 CAD
 LITE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)

 10246
 CAD
 LITE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)

 10247
 CAD
 LITE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)

 10246
 CAD
 LITE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)

 10247
 CAD
 LITE-TDD (SC-FDMA, 50% RB, 1.5MHz, 16-QAM)

 10246
 CAD
 < EX3DV4 - SN:7686 September 27, 2022 PAR (dB) Unc<sup>E</sup> k = 2 Group WCDMA LTE-TDD LTE-TDD 5.97 ±9.6 ±9.6 9.49 10.26 LTE-TDD 9.22 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ITE-TOD 9 48 LTE-TDD 10.25 9.19 9.48 10.25 9.21 9.48 TE-TO LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD ±9.6 10.25 ±9.6 9.21 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 LTE-TDD 9.48 10.25 LTE-TDD LTE-TOD 9.21 LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD 9.82 9.86 9.46 10.06 10.06 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 9.30 9.91 ±9.6 LTE-TDD 10.09 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 LTE-TDD 9.29 9.81 LTE-TDD ITE-TOD 10 17 LTE-TDD 9.24 0.00 9.90 10.14 9.20 9.96 10.08 ±9.6 ±9.6 9.34 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 9.98 LTE-TDD 9.97 LTE-TDD 9.24 9.83 10.16 9.23 9.92 LTE-TDD LTE-TOD LTE-TOD LTE-TOD ±9.6 ±9.6 ±9.6 LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD 9.92 10.07 9.30 10.06 10.13 ±9.6 ±9.6 9.58 ±9.6 ±9.6 WCDM/ WCDMA 3.96 11.81 PHS 11.81 PHS 12.18 3.91 3.46 PHS CDMA2000 CDMA2000 CDMA2000 CDMA2000 CDMA2000 CDMA2000 LTE-FDD LTE-FDD LTE-FDD 3.46 3.39 3.50 12.49 5.81 6.39 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 LTE-FDD 6.60 WIMAX 12.03 WIMAX 12.52 11.86 15.24 WIMAX WIMAX WIMAS WIMA 14.67

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| UID   | Rev | Communication System Name                                  | Group    | PAR (dB) | $Unc^E k = 2$ |
|-------|-----|--|----------|----------|---------------|
| 10307 | AAB | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC)      | WIMAX    | 14.49    | ±9.6          |
| 10308 | AAB | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)     | WIMAX    | 14.46    | ±9.6          |
| 10309 | AAB | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3)  | WIMAX    | 14.58    | ±9.6          |
| 10310 | AAB | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3    | WIMAX    | 14.57    | ±9.6          |
| 10311 | AAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                   | LTE-FDD  | 6.06     | ±9.6          |
| 10313 | AAD | IDEN 1:3   | IDEN     | 10.51    | ±9.6          |
| 10314 | AAD | IDEN 1:6   | IDEN     | 13.48    | ±9.6          |
| 10315 | AAD | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)          | WLAN     | 1.71     | ±9.6          |
| 10316 | AAD | IEEE 802.11g WIFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)      | WLAN     | 8.36     | ±9.6          |
| 10317 | AAA | IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc dc)            | WLAN     | 8.36     | ±9.6          |
| 10352 | AAA | Pulse Waveform (200 Hz, 10%)                               | Generic  | 10.00    | ±9.6          |
| 10353 | AAA | Pulse Waveform (200 Hz, 20%)                               | Generic  | 6.99     | ±9.6          |
| 10354 | AAA | Pulse Waveform (200 Hz, 40%)                               | Generic  | 3.98     | ±9.6          |
| 10355 | AAA | Pulse Waveform (200 Hz, 60%)                               | Generic  | 2.22     | ±9.6          |
| 10356 | AAA | Pulse Waveform (200 Hz, 80%)                               | Generic  | 0.97     | ±9.6          |
| 10387 | AAA | QPSK Waveform, 1 MHz                                       | Generic  | 5.10     | ±9.6          |
| 10388 | AAA | QPSK Waveform, 10 MHz                                      | Generic  | 5.22     | ±9.6          |
| 10396 | AAA | 64-QAM Waveform, 100 kHz                                   | Generic  | 6.27     | ±9.6          |
| 10399 | AAA | 64-QAM Waveform, 40 MHz                                    | Generic  | 6.27     | ±9.6          |
| 10400 | AAD | IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc dc)               | WLAN     | 8.37     | ±9.6          |
| 10401 | AAA | IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc dc)               | WLAN     | 8.60     | ±9.6          |
| 10402 | AAA | IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc dc)               | WLAN     | 8.53     | ±9.6          |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0)                                 | CDMA2000 | 3.76     | ±9.6          |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A)                                 | CDMA2000 | 3.77     | ±9.6          |
| 10406 | AAD | CDMA2000, RC3, SO32, SCH0, Full Rate                       | CDMA2000 | 5.22     | ±9.6          |
| 10410 | AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)  | LTE-TDD  | 7.82     | ±9.6          |
| 10414 | AAA | WLAN CCDF, 64-QAM, 40 MHz                                  | Generic  | 8.54     | ±9.6          |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)          | WLAN     | 1.54     | +9.6          |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)      | WLAN     | 8.23     | ±9.6          |
| 10417 | AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)          | WLAN     | 8.23     | ±9.6          |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)  | WLAN     | 8.14     | ±9.6          |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short) | WLAN     | 8.19     | ±9.6          |
| 10422 | AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)               | WLAN     | 8.32     | ±9.6          |
| 10423 | AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)            | WLAN     | 8.47     | ±9.6          |
| 10424 | AAE | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)            | WLAN     | 8.40     | ±9.6          |
| 10425 | AAE | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                | WLAN     | 8.41     | ±9.6          |
| 10426 | AAE | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)              | WLAN     | 8.45     | ±9.6          |
| 10427 | AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)             | WLAN     | 8.41     | ±9.6          |
| 10430 | AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                           | LTE-FDD  | 8.28     | ±9.6          |
| 10431 | AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3,1)                          | LTE-FDD  | 8.38     | ±9.6          |
| 10432 | AAB | LTE-FDD (OFDMA, 15MHz, 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 | AAG | W-CDMA (BS Test Model 1, 64 DPCH)                          | WCDMA    | 8.60     | ±9.6          |
| 10435 | AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)              | LTE-TDD  | 7.82     | ±9.6          |
| 10447 | AAA | LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)              | LTE-FDD  | 7.56     | ±9.6          |
| 10448 | AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3,1, Clippin 44%)             | LTE-FDD  | 7.53     | ±9.6          |
| 10449 | AAC | LTE-FDD (OFDMA, 15 MHz, E TM 3.1, Cliping 44%)             | LTE-FDD  | 7.51     | ±9.6          |
| 10450 | AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)            | LTE-FDD  | 7.48     | ±9.6          |
| 10451 | AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)            | WCDMA    | 7.59     | ±9.6          |
| 10453 | AAC | Validation (Square, 10 ms, 1 ms)                           | Test     | 10.00    | ±9.6          |
| 10456 | AAC | IEEE 802.11ac WIFI (160 MHz, 64-QAM, 99pc dc)              | WLAN     | 8.63     | ±9.6          |
| 10457 | AAC | UMTS-FDD (DC-HSDPA)  | WCDMA    | 6.62     | ±9.6          |
| 10458 | AAG | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                     | CDMA2000 | 6.55     | ±9.6          |
| 10459 | AAC | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                     | CDMA2000 | 8.25     | ±9.6          |
| 10460 | AAC | UMTS-FDD (WCDMA, AMR)                                      | WCDMA    | 2.39     | ±9.6          |
| 10461 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)             | LTE-TDD  | 7.82     | ±9.6          |
| 10462 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)           | LTE-TDD  | 8.30     | ±9.6          |
| 10463 | AAD | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)           | LTE-TDD  | 8.56     | ±9.6          |
| 10464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)               | LTE-TDD  | 7.82     | ±9.6          |
| 10465 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)             | LTE-TDD  | 8.32     | ±9.6          |
| 10466 | AAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)             | LTE-TDD  | 8.57     | ±9.6          |
| 10467 | AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)               | LTE-TOD  | 7.82     | ±9.6          |
| 10468 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)             | LTE-TOD  | 8.32     | ±9.6          |
| 10469 | AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)             | LTE-TDD  | 8.56     | ±9.6          |
|       |     | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)              | LTE-TDD  | 7.82     | ±9.6          |
| 10470 | AAD |  |          |          |               |

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| UID   | Rev | Communication System Name  | Group   | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|--|---------|----------|------------------------|
| 10472 | AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.57     | ±9.6                   |
| 10473 | AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)  | LTE-TDD | 7.82     | ±9.6                   |
| 10474 | AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.32     | ±9.6                   |
| 10475 | AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.57     | ±9.6                   |
| 10477 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.32     | ±9.6                   |
| 10478 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.57     | ±9.6                   |
| 10479 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)   | LTE-TDD | 7.74     | ±9.6                   |
| 10480 | AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)                                       | LTE-TDD | 8.18     | ±9.6                   |
| 10481 | AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)                                       | LTE-TDD | 8.45     | ±9.6                   |
| 10482 | AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)   | LTE-TDD | 7.71     | +9.6                   |
| 10483 | AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)  | LTE-TDD | 8.39     | ±9.6                   |
| 10484 | AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)   | LTE-TDD | 8.47     | ±9.6                   |
| 10485 | AAB | LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK, UL Sub)  | LTE-TDD | 7.59     | ±9.6                   |
| 10486 | AAB | LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.38     | ±9.6                   |
| 10487 | AAC | LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.60     | ±9.6                   |
| 10488 | AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)  | LTE-TOD | 7.70     | ±9.6                   |
| 10466 | AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GFSR, 0L Sub)  | LTE-TDD | 8.31     | ±9.6                   |
|       |     |  |         |          |                        |
| 10490 | AAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.54     | ±9.6                   |
| 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, OPSK, UL Sub)  | LTE-TDD |          | ±9.6                   |
| 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.41     | ±9.6                   |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.55     | ±9.6                   |
| 10494 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)  | LTE-TDD | 7.74     | ±9.6                   |
| 10495 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.37     | ±9.6                   |
| 10496 | AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.54     | ±9.6                   |
| 10497 | AAE | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)  | LTE-TDD | 7.67     | ±9.6                   |
| 10498 | AAE | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)                                      | LTE-TDD | 8.40     | ±9.6                   |
| 10499 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)                                      | LTE-TDD | 8.68     | ±9.6                   |
| 10500 | AAF | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)  | LTE-TDD | 7.67     | ±9.6                   |
| 10501 | AAF | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.44     | ±9.6                   |
| 10502 | AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.52     | ±9.6                   |
| 10503 | AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)  | LTE-TDD | 7.72     | ±9.6                   |
| 10504 | AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)  | LTE-TDD | 8.31     | ±9.6                   |
| 10505 | AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)  | LTE-TDD | 8.54     | ±9.6                   |
| 10506 | AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)   | LTE-TDD | 7.74     | ±9.6                   |
| 10507 | AAC | 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 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)   | LTE-TOD | 7.99     | ±9.6                   |
| 10510 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)                                       | LTE-TDD | 8.49     | ±9.6                   |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)                                       | LTE-TDD | 8.51     | ±9.6                   |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)   | LTE-TDD | 7.74     | ±9.6                   |
| 10513 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)                                       | LTE-TDD | 8.42     | ±9.6                   |
| 10514 | AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)                                       | LTE-TDD | 8.45     | ±9.6                   |
| 10515 | AAE | IEEE 802.11b WiFI 2.4 GHz (DSSS, 2 Mbps, 99pc dc)  | WLAN    | 1.58     | ±9.6                   |
| 10516 | AAE | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)                                      | WLAN    | 1.57     | ±9.6                   |
| 10517 | AAF | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)                                       | WLAN    | 1.58     | ±9.6                   |
| 10518 | AAF | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)  | WLAN    | 8.23     | ±9.6                   |
| 10519 | AAF | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)                                       | WLAN    | 8.39     | ±9.6                   |
| 10520 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)                                       | WLAN    | 8.12     | ±9.6                   |
| 10521 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)                                       | WLAN    | 7.97     | ±9.6                   |
| 10522 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)                                       | WLAN    | 8.45     | ±9.6                   |
| 10523 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)                                       | WLAN    | 8.08     | ±9.6                   |
| 10524 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)                                       | WLAN    | 8.27     | +9.6                   |
| 10525 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc dc)   | WLAN    | 8.36     | ±9.6                   |
| 10526 | AAF | IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc dc)   | WLAN    | 8.42     | ±9.6                   |
| 10520 | AAF | IEEE 802.11ac WiFI (20 MHz, MCS1, 99pc dc)   | WLAN    | 8.92     | ±9.6<br>±9.6           |
| 10528 | AAF | IEEE 802.11ac WiFi (20 MHz, MC32, 99pc dc)   | WLAN    | 8.36     | ±9.6                   |
| 10528 | AAF | IEEE 802.11 ac WiFi (20 MHz, MCS3, 99pc dc)  | WLAN    | 8.36     | ±9.6<br>±9.6           |
| 10529 | AAF | IEEE 802.11 ac WiFi (20 MHz, MCS4, 99pc dc)  | WLAN    | 8.36     | ±9.6                   |
| 10531 | AAF | IEEE 802.11ac WIFI (20 MHz, MCS6, 99pc dc)<br>IEEE 802.11ac WIFI (20 MHz, MCS7, 99pc dc) | WLAN    | 8.43     |                        |
|       |     |  |         |          | ±9.6                   |
| 10533 | AAE | IEEE 802.11ac WIFi (20 MHz, MCS8, 99pc dc)   | WLAN    | 8.38     | ±9.6                   |
| 10534 | AAE | IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc dc)   | WLAN    | 8.45     | ±9.6                   |
| 10535 | AAE | IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc dc)   | WLAN    | 8.45     | ±9.6                   |
| 10536 | AAF | IEEE 802.11ac WIFI (40 MHz, MCS2, 99pc dc)   | WLAN    | 8.32     | ±9.6                   |
| 10537 | AAF | IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc dc)   | WLAN    | 8.44     | ±9.6                   |
| 10538 | AAF | IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc dc)   | WLAN    | 8.54     | ±9.6                   |
| 10540 | AAA | IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc dc)   | WLAN    | 8.39     | ±9.6                   |

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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September 27, 2022

| UID   | Rev | Communication System Name  | Group | PAR (dB) | UncE k = 2   |
|-------|-----|--|-------|----------|--------------|
| 10541 | AAA | IEEE 802.11ac WiFI (40 MHz, MCS7, 99pc dc)   | WLAN  | 8.46     | ±9.6         |
| 10542 | AAA | IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc dc)   | WLAN  | 8.65     | ±9.6         |
| 10543 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc dc)   | WLAN  | 8.65     | ±9.6         |
| 10544 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS0, 99pc dc)   | WLAN  | 8.47     | ±9.6         |
| 10545 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc dc)   | WLAN  | 8.55     | ±9.6         |
| 10546 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS2, 99pc dc)   | WLAN  | 8.35     | ±9.6         |
| 10547 | AAC | IEEE 802.11ac WiFI (80 MHz, MCS3, 99pc dc)   | WLAN  | 8.49     | ±9.6         |
| 10548 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc dc)   | WLAN  | 8.37     | ±9.6         |
| 10550 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc dc)   | WLAN  | 8.38     | +9.6         |
| 10551 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc dc)   | WLAN  | 8.50     | ±9.6         |
| 10552 | AAC | IEEE 802.11ac WiFI (80 MHz, MCS8, 99pc dc)   | WLAN  | 8.42     | ±9.6         |
| 10553 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc dc)   | WLAN  | 8.45     | ±9.6         |
| 10554 | AAC | IEEE 802.11ac WIFI (160 MHz, MCS0, 99pc dc)  | WLAN  | 8.48     | ±9.6         |
| 10555 | AAC | IEEE 802.11ac WIFI (160 MHz, MCS1, 99pc dc)  | WLAN  | 8.47     | ±9.6         |
| 10556 | AAC | IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc dc)  | WLAN  | 8.50     | ±9.6         |
| 10557 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc dc)  | WLAN  | 8.52     | 19.6         |
| 10558 | AAG | IEEE 802.11ac WIFI (160 MHz, MCS3, 99pc dc)  | WLAN  | 8.61     | +9.6         |
| 10560 | AAC | IEEE 802.11ac WiFI (160 MHz, MCS4, 99pc dc)  | WLAN  | 8.73     | ±9.6         |
| 10561 | AAC | IEEE 802.11ac WiFI (160 MHz, MCS6, 99pc dc)  | WLAN  |          |              |
| 10561 | AAC | IEEE 802.11ac WiFI (160 MHz, MCS7, 99pc dc)<br>IEEE 802.11ac WiFI (160 MHz, MCS8, 99pc dc) | WLAN  | 8.56     | ±9.6         |
| 10562 | AAC |  |       | 8.69     | ±9.6         |
|       | AAC | IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc dc)  | WLAN  | 8.77     | ±9.6         |
| 10564 | AAC | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)                                     | WLAN  | 8.25     | ±9.6         |
| 10565 |     | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)                                    | WLAN  | 8.45     | ±9.6         |
| 10566 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)                                    | WLAN  | 8.13     | ±9.6         |
| 10567 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)                                    | WLAN  | 8.00     | ±9.6         |
| 10568 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)                                    | WLAN  | 8.37     | ±9.6         |
| 10569 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)                                    | WLAN  | 8.10     | ±9.6         |
| 10570 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)                                    | WLAN  | 8.30     | ±9.6         |
| 10571 | AAC | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc dc)  | WLAN  | 1.99     | ±9.6         |
| 10572 | AAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)  | WLAN  | 1.99     | ±9.6         |
| 10573 | AAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)  | WLAN  | 1.98     | ±9.6         |
| 10574 | AAC | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)   | WLAN  | 1.98     | ±9.6         |
| 10575 | AAC | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)                                     | WLAN  | 8.59     | ±9.6         |
| 10576 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)                                     | WLAN  | 8.60     | ±9.6         |
| 10577 | AAC | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)                                    | WLAN  | 8.70     | ±9.6         |
| 10578 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)                                    | WLAN  | 8.49     | ±9.6         |
| 10579 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)                                    | WLAN  | 8.36     | ±9.6         |
| 10580 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)                                    | WLAN  | 8.76     | ±9.6         |
| 10581 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)                                    | WLAN  | 8.35     | ±9.6         |
| 10582 | AAD | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)                                    | WLAN  | 8.67     | ±9.6         |
| 10583 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)  | WLAN  | 8,59     | ±9.6         |
| 10584 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)  | WLAN  | 8.60     | ±9.6         |
| 10585 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)   | WLAN  | 8.70     | ±9.6         |
| 10586 | AAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 90pc dc)   | WLAN  | 8.49     | ±9.6         |
| 10587 | AAA | IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 90pc dc)   | WLAN  | 8.36     | ±9.6         |
| 10588 | AAA | IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc dc)   | WLAN  | 8.76     | ±9.6         |
| 10589 | AAA | IEEE 802 11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc dc)   | WLAN  | 8.35     | ±9.6         |
| 10590 | AAA | IEEE 802.11 a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc dc)  | WLAN  | 8.67     | ±9.6         |
| 10591 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc dc)   | WLAN  | 8.63     | ±9.6         |
| 10592 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc dc)   | WLAN  | 8.79     | ±9.6         |
| 10593 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc dc)   | WLAN  | 8.64     | ±9.6         |
| 10594 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc dc)   | WLAN  | 8.74     | ±9.6         |
| 10595 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc dc)   | WLAN  | 8.74     | ±9.6         |
| 10596 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc dd)   | WLAN  | 8.71     | ±9.6         |
| 10597 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc dc)   | WLAN  | 8.72     | ±9.6         |
| 10598 | AAA | IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc dc)   | WLAN  | 8.50     | ±9.6         |
| 10599 | AAA | IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc dc)   | WLAN  | 8.79     | ±9.6         |
| 10600 | AAA | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc dc)   | WLAN  | 8.88     | ±9.6         |
| 10601 | AAA | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 50pc dd)   | WLAN  | 8.88     | ±9.6         |
| 10602 | AAA | IEEE 802,111 (HT Mixed, 40 MHz, MCS2, 90pc dc)   | WLAN  | 8.82     | ±9.6<br>±9.6 |
| 10603 | AAA | IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc dc)   | WLAN  | 9.03     | ±9.6<br>±9.6 |
| 10604 | AAA | IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc dc)   | WLAN  |          |              |
| 10605 | AAA | IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc dc)   |       | 8.76     | ±9.6         |
| 10605 | AAA |  | WLAN  | 8.97     | ±9.6         |
| 10110 |     | IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc dc)   | WLAN  | 8.82     | ±9.6         |
| 10607 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc dc)   | WLAN  | 8.64     | ±9.6         |
| 10608 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc dc)   | WLAN  | 8.77     | ±9.6         |

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September 27, 2022

| UID   | Rev | Communication System Name  | Group     | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|--|-----------|----------|------------------------|
| 10609 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc dc)                                     | WLAN      | 8.57     | ±9.6                   |
| 10610 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc dc)                                     | WLAN      | 8.78     | ±9.6                   |
| 10611 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc dc)                                     | WLAN      | 8.70     | ±9.6                   |
| 10612 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc dc)                                     | WLAN      | 8.77     | ±9.6                   |
| 10613 | AAG | IEEE 802.11ac WiFI (20 MHz, MCS6, 90pc dc)                                     | WLAN      | 8.94     | ±9.6                   |
| 10614 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc dc)                                     | WLAN      | 8.59     | ±9.6                   |
| 10615 | AAC | IEEE 802.11ac WIFI (20 MHz, MCS8, 90pc dc)                                     | WLAN      | 8.82     | ±9.6                   |
| 10616 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc dc)                                     | WLAN      | 8.82     | ±9.6                   |
| 10617 | AAG | IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc dc)                                     | WLAN      | 8.81     | ±9.6                   |
| 10618 | AAC | IEEE 802.11ac WiFI (40 MHz, MCS2, 90pc dc)                                     | WLAN      | 8.58     | ±9.6                   |
| 10619 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc dc)                                     | WLAN      | 8.86     | ±9.6                   |
| 10620 | AAC | IEEE 802.11ac WIFi (40 MHz, MCS4, 90pc dc)                                     | WLAN      | 8.87     | ±9.6                   |
| 10621 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc dc)                                     | WLAN      | 8.77     | ±9.6                   |
| 10622 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc dc)                                     | WLAN      | 8.68     | ±9.6                   |
| 10623 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc dc)                                     | WLAN      | 8.82     | ±9.6                   |
| 10624 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc dc)                                     | WLAN      | B.96     | ±9.6                   |
| 10625 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc dc)                                     | WLAN      | 8.96     | ±9.6                   |
| 10626 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc dc)                                     | WLAN      | 8.83     | ±9.6                   |
| 10627 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc dc)                                     | WLAN      | 8.88     | ±9.6                   |
| 10628 | AAC | IEEE 802.11ac WIFi (80 MHz, MCS2, 90pc dc)                                     | WLAN      | 8.71     | ±9.6                   |
| 10629 | AAC | IEEE 802.11ac WIFi (80 MHz, MCS3, 90pc dc)                                     | WLAN      | 8.85     | ±9.6                   |
| 10630 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc dc)                                     | WLAN      | 8.72     | ±9.6                   |
| 10631 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc dc)                                     | WLAN      | 8.81     | ±9.6                   |
| 10632 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc dc)                                     | WLAN      | 8.74     | ±9.6                   |
| 10633 | AAG | IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc dc)                                     | WLAN      | 8.83     | ±9.6                   |
| 10634 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc dc)                                     | WLAN      | 8.80     | ±9.6                   |
| 10635 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc dc)                                     | WLAN      | 8.81     | ±9.6                   |
| 10636 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc dc)                                    | WLAN      | 8.83     | ±9.6                   |
| 10637 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc dc)                                    | WLAN      | 8.79     | ±9.6                   |
| 10638 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc dc)                                    | WLAN      | 8.86     | ±9.6                   |
| 10639 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc dc)                                    | WLAN      | 8.85     | ±9.6                   |
| 10640 | AAC | IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc dc)                                    | WLAN      | 8.98     | ±9.6                   |
| 10641 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc dc)                                    | WLAN      | 9.06     | ±9.6                   |
| 10642 | AAC | IEEE 802.11ac WIFI (160 MHz, MCS6, 90pc dc)                                    | WLAN      | 9.06     | ±9.6                   |
| 10643 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc dc)                                    | WLAN      | 8.89     | ±9.6                   |
| 10644 | AAC | IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc dc)                                    | WLAN      | 9.05     | ±9.6                   |
| 10645 | AAC | IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc dc)                                    | WLAN      | 9.11     | ±9.6                   |
| 10646 | AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)                               | LTE-TDD   | 11.96    | ±9.6                   |
| 10647 | AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)                              | LTE-TDD   | 11.96    | ±9.6                   |
| 10648 | AAC | CDMA2000 (1x Advanced)   | CDMA2000  | 3.45     | ±9.6                   |
| 10652 | AAC | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                                 | LTE-TDD   | 6.91     | ±9.6                   |
| 10653 | AAC | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                                | LTE-TDD   | 7.42     | ±9.6                   |
| 10654 | AAC | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                                | LTE-TDD   | 6.96     | ±9.6                   |
| 10655 | AAC | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                                | LTE-TDD   | 7.21     | ±9.6                   |
| 10658 | AAC | Pulse Waveform (200 Hz, 10%)   | Test      | 10.00    | ±9.6                   |
| 10659 | AAC | Pulse Waveform (200 Hz, 20%)   | Test      | 6.99     | ±9.6                   |
| 10660 | AAC | Pulse Waveform (200 Hz, 40%)   | Test      | 3.98     | ±9.6                   |
| 10661 | AAC | Pulse Waveform (200 Hz, 60%)   | Test      | 2.22     | ±9.6                   |
| 10662 | AAC | Pulse Waveform (200 Hz, 80%)   | Test      | 0.97     | ±9.6                   |
| 10670 | AAC | Bluetooth Low Energy   | Bluetooth | 2.19     | ±9.6                   |
| 10671 | AAD | IEEE 802.11ax (20 MHz, MCS0, 90pc dc)  | WLAN      | 9.09     | ±9.6                   |
| 10672 | AAD | IEEE 802.11ax (20 MHz, MCS1, 90pc dc)  | WLAN      | 8.57     | ±9.6                   |
| 10673 | AAD | IEEE 802.11ax (20 MHz, MCS2, 90pc dc)  | WLAN      | 8.78     | ±9.6                   |
| 10674 | AAD | IEEE 802.11ax (20 MHz, MCS3, 90pc dc)  | WLAN      | 8.74     | ±9.6                   |
| 10675 | AAD | IEEE 802.11ax (20 MHz, MCS4, 90pc dc)  | WLAN      | 8.90     | ±9.6                   |
| 10676 | AAD | IEEE 802.11ax (20 MHz, MCS5, 90pc dc)  | WLAN      | 8.77     | ±9.6                   |
| 10677 | AAD | IEEE 802.11ax (20 MHz, MCS6, 90pc dc)  | WLAN      | 8.73     | ±9.6                   |
| 10678 | AAD | IEEE 802.11ax (20 MHz, MCS7, 90pc dc)  | WLAN      | 8.78     | ±9.6                   |
| 10679 | AAD | IEEE 802.11ax (20 MHz, MCS8, 90pc dc)  | WLAN      | 8.89     | ±9.6                   |
| 10680 | AAD | IEEE 802.11ax (20 MHz, MCS9, 90pc dc)  | WLAN      | 8.80     | ±9.6                   |
| 10681 | AAG | IEEE 802,11ax (20 MHz, MCS10, 90pc dc)   | WLAN      | 8.62     | ±9.6                   |
| 10682 | AAF | IEEE 802.11ax (20 MHz, MCS11, 90pc dc)   | WLAN      | 8.83     | ±9.6                   |
| 10683 | AAA | IEEE 802.11ax (20 MHz, MCS0, 99pc dc)  | WLAN      | 8.42     | ±9.6                   |
| 10684 | AAC | IEEE 802.11ax (20 MHz, MCS1, 99pc dc)  | WLAN      | 8.26     | ±9.6                   |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS2, 99pc dc)<br>IEEE 802.11ax (20 MHz, MCS3, 99pc dc) | WLAN      | 8.33     | ±9.6                   |
| 10686 | AAC |  | WLAN      | 8.28     | ±9.6                   |

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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September 27, 2022

| UID   | Rev | Communication System Name              | Group | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|--|-------|----------|------------------------|
| 10687 | AAE | IEEE 802.11ax (20 MHz, MCS4, 99pc dc)  | WLAN  | 8.45     | ±9.6                   |
| 10688 | AAE | IEEE 802.11ax (20 MHz, MCS5, 99pc dc)  | WLAN  | 8.29     | ±9.6                   |
| 10689 | AAD | IEEE 802.11ax (20 MHz, MCS6, 99pc dc)  | WLAN  | 8.55     | ±9.6                   |
| 10690 | AAE | IEEE 802.11ax (20 MHz, MCS7, 99pc dc)  | WLAN. | 8.29     | ±9.6                   |
| 10691 | AAB | IEEE 802.11ax (20 MHz, MCS8, 99pc dc)  | WLAN  | 8.25     | ±9.6                   |
| 10692 | AAA | IEEE 802.11ax (20 MHz, MCS9, 99pc dc)  | WLAN  | 8.29     | ±9.6                   |
| 10693 | AAA | IEEE 802.11ax (20 MHz, MCS10, 99pc dc) | WLAN  | 8.25     | ±9.6                   |
| 10694 | AAA | IEEE 802.11ax (20 MHz, MCS11, 99pc dc) | WLAN  | 8.57     | ±9.6                   |
| 10695 | AAA | IEEE 802.11ax (40 MHz, MCS0, 90pc dc)  | WLAN  | 8.78     | ±9.6                   |
| 10696 | AAA | IEEE 802.11ax (40 MHz, MCS1, 90pc dc)  | WLAN  | 8.91     | ±9.6                   |
| 10697 | AAA | IEEE 802.11ax (40 MHz, MCS2, 90pc dc)  | WLAN  | 8.61     | ±9.6                   |
| 10698 | AAA | IEEE 802.11ax (40 MHz, MCS3, 90pc dc)  | WLAN  | 8.89     | ±9.6                   |
| 10699 | AAA | IEEE 802.11ax (40.MHz, MCS4, 90pc dc)  | WLAN  | 8.82     | ±9.6                   |
| 10700 | AAA | IEEE 802.11ax (40 MHz, MCS5, 90pc dc)  | WLAN  | 8.73     | ±9.6                   |
| 10701 | AAA | IEEE 802.11ax (40 MHz, MCS6, 90pc dc)  | WLAN  | 8.86     | ±9.6                   |
| 10702 | AAA | IEEE 802.11ax (40 MHz, MCS7, 90pc dc)  | WLAN  | 8.70     | ±9.6                   |
| 10703 | AAA | IEEE 802.11ax (40 MHz, MCS8, 90pc dc)  | WLAN  | 8.82     | ±9.6                   |
| 10704 | AAA | IEEE 802,11ax (40 MHz, MCS9, 90pc dc)  | WLAN  | 8.56     | ±9.6                   |
| 10705 | AAA | IEEE 802.11ax (40 MHz, MCS10, 90pc dc) | WLAN  | 8.69     | ±9.6                   |
| 10706 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc dc) | WLAN  | 8.66     | ±9.6                   |
| 10707 | AAC | IEEE 802.11ax (40 MHz, MCS0, 99pc dc)  | WLAN  | 8.32     | ±9.6                   |
| 10708 | AAC | IEEE 802.11ax (40 MHz, MCS1, 99pc dc)  | WLAN  | 8.55     | ±9.6                   |
| 10709 | AAC | IEEE 802.11ax (40 MHz, MCS2, 99pc dc)  | WLAN  | 8.33     | ±9.6                   |
| 10710 | AAC | IEEE 802.11ax (40 MHz, MCS3, 99pc dc)  | WLAN  | 8.29     | ±9.6                   |
| 10711 | AAC | IEEE 802.11ax (40 MHz, MCS4, 99pc dc)  | WLAN  | 8.39     | ±9.6                   |
| 10712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 99pc dc)  | WLAN  | 8.67     | ±9.6                   |
| 10713 | AAC | IEEE 802.11ax (40 MHz, MCS6, 99pc dc)  | WLAN  | 8.33     | ±9.6                   |
| 10714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 99pc dc)  | WLAN  | 8.26     | ±9.6                   |
| 10715 | AAC | IEEE 802.11ax (40 MHz, MCS8, 99pc dc)  | WLAN  | 8.45     | ±9.6                   |
| 10716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 99pc dc)  | WLAN  | 8.30     | ±9.6                   |
| 10717 | AAC | IEEE 802.11ax (40 MHz, MCS10, 99pc dc) | WLAN  | 8.48     | ±9.6                   |
| 10718 | AAC | IEEE 802.11ax (40 MHz, MCS11, 99pc dc) | WLAN  | 8.24     | +9.6                   |
| 10719 | AAC | IEEE 802.11ax (80 MHz, MCS0, 90pc dc)  | WLAN  | 8.81     | ±9.6                   |
| 10720 | AAC | IEEE 802.11ax (80 MHz, MCS1, 90pc dc)  | WLAN  | 8.87     | ±9.6                   |
| 10721 | AAC | IEEE 802.11ax (80 MHz, MCS2, 90pc dc)  | WLAN  | 8.76     | ±9.6                   |
| 10722 | AAC | IEEE 802.11ax (80 MHz, MCS3, 90pc dc)  | WLAN  | 8.55     | ±9.6                   |
| 10723 | AAC | IEEE 802.11ax (80 MHz, MCS4, 90pc dc)  | WLAN  | 8.70     | ±9.6                   |
| 10724 | AAC | IEEE 802.11ax (80 MHz, MCS5, 90pc dc)  | WLAN  | 8.90     | ±9.6                   |
| 10725 | AAC | IEEE 802.11ax (80 MHz, MCS6, 90pc dc)  | WLAN  | 8.74     | ±9.6                   |
| 10726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc dc)  | WLAN  | 8.72     | ±9.6                   |
| 10727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc dc)  | WLAN  | 8.66     | ±9.6                   |
| 10728 | AAC | IEEE 802.11ax (80 MHz, MCS9, 90pc dc)  | WLAN  | 8.65     | ±9.6                   |
| 10729 | AAG | IEEE 802.11ax (80 MHz, MCS10, 90pc dc) | WLAN  | 8.64     | ±9.6                   |
| 10730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc dc) | WLAN  | 8.67     | ±9.6                   |
| 10731 | AAC | IEEE 802.11ax (80 MHz, MCS0, 99pc dc)  | WLAN  | 8.42     | ±9.6                   |
| 10732 | AAC | IEEE 802.11ax (80 MHz, MCS1, 99pc dc)  | WLAN  | 8.46     | ±9.6                   |
| 10733 | AAC | IEEE 802.11ax (80 MHz, MCS2, 99pc dc)  | WLAN  | 8.40     | ±9.6                   |
| 10734 | AAC | IEEE 802.11ax (80 MHz, MCS3, 99pc dc)  | WLAN  | 8.25     | ±9.6                   |
| 10735 | AAC | IEEE 802.11ax (80 MHz, MCS4, 99pc dc)  | WLAN  | 8.33     | ±9.6                   |
| 10736 | AAC | IEEE 802.11ax (80 MHz, MCS5, 99pc dc)  | WLAN  | 8.27     | 19.6                   |
| 10737 | AAC | IEEE 802.11ax (80 MHz, MCS6, 99pc dc)  | WLAN  | 8.36     | ±9.6                   |
| 10738 | AAC | IEEE 802.11ax (80 MHz, MCS7, 99pc dc)  | WLAN  | 8.42     | ±9.6                   |
| 10739 | AAC | IEEE 802.11ax (80 MHz, MCS8, 99pc dc)  | WLAN  | 8.29     | ±9.6                   |
| 10740 | AAC | IEEE 802.11ax (80 MHz, MCS9, 99pc dc)  | WLAN  | 8.48     | ±9.6                   |
| 10741 | AAC | IEEE 802.11ax (80 MHz, MCS10, 99pc dc) | WLAN  | 8.40     | ±9.6                   |
| 10742 | AAC | IEEE 802.11ax (80 MHz, MCS11, 99pc dc) | WLAN  | 8.43     | ±9.6                   |
| 10743 | AAC | IEEE 802.11ax (160 MHz, MCS0, 90pc dc) | WLAN  | 8.94     | ±9.6                   |
| 10744 | AAC | IEEE 802.11ax (160 MHz, MCS1, 90pc dc) | WLAN  | 9.16     | ±9.6                   |
| 10745 | AAC | IEEE 802.11ax (160 MHz, MCS2, 90pc dc) | WLAN  | 8.93     | ±9.6                   |
| 10746 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc dc) | WLAN  | 9.11     | ±9.6                   |
| 10747 | AAC | IEEE 802.11ax (160 MHz, MCS4, 90pc dc) | WLAN  | 9.04     | ±9.6                   |
| 10748 | AAC | IEEE 802.11ax (160 MHz, MCS5, 90pc dc) | WLAN  | 8.93     | ±9.6                   |
| 10749 | AAC | IEEE 802.11ax (160 MHz, MCS6, 90pc dc) | WLAN  | 8.90     | ±9.6                   |
| 10750 | AAC | IEEE 802.11ax (160 MHz, MCS7, 90pc dc) | WLAN  | 8.79     | +9.6                   |
| 10751 | AAC | IEEE 802.11ax (160 MHz, MCS8, 90pc dc) | WLAN  | 8.82     | ±9.6                   |
| 10752 | AAC | IEEE 802.11ax (160 MHz, MCS9, 90pc dc) | WLAN  | 8.81     |                        |
|       |     |  | WL/M  | 0.01     | ±9.6                   |

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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September 27, 2022

| UID     | Rev | Communication System Name  | Group         | PAR (dB) | Unc <sup>E</sup> k = 2 |
|---------|-----|--|---------------|----------|------------------------|
| 10753   | AAC | IEEE 802.11ax (160 MHz, MCS10, 90pc dc)  | WLAN          | 9.00     | ±9.6                   |
| 10754   | AAC | IEEE 802.11ax (160 MHz, MCS11, 90pc dc)  | WLAN          | 8.94     | ±9.6                   |
| 10755   | AAG | IEEE 802.11ax (160 MHz, MCS0, 99pc dc)   | WLAN          | 8.64     | ±9.6                   |
| 10756   | AAC | IEEE 802.11ax (160 MHz, MCS1, 99pc dc)   | WLAN          | 8.77     | ±9.6                   |
| 10757   | AAC | IEEE 802.11ax (160 MHz, MCS2, 99pc dc)   | WLAN          | 8.77     | ±9.6                   |
| 10758   | AAC | IEEE 802.11ax (160 MHz, MCS3, 99pc dc)   | WLAN          | 8.69     | ±9.6                   |
| 10759   | AAC | IEEE 802.11ax (160 MHz, MCS4, 99pc dc)   | WLAN          | 8.58     | ±9.6                   |
| 10760   | AAC | IEEE 802.11ax (160 MHz, MCS5, 99pc dc)   | WLAN          | 8.49     | ±9.6                   |
| 10761   | AAC | IEEE 802.11ax (160 MHz, MCS6, 99pc dc)   | WLAN          | 8.58     | ±9.6                   |
| 10762   | AAC | IEEE 802.11ax (160 MHz, MCS7, 99pc dc)   | WLAN          | 8.49     | ±9.6                   |
| 10763   | AAC | IEEE 802.11ax (160 MHz, MCS8, 99pc dc)   | WLAN          | 8.53     | ±9.6                   |
| 10764   | AAC | IEEE 802.11ax (160 MHz, MCS9, 99pc dc)   | WLAN          | 8.54     | ±9.6                   |
| 10765   | AAC | IEEE 802.11ax (160 MHz, MCS10, 99pc dc)  | WLAN          | 8.54     | ±9.6                   |
| 10766   | AAC | IEEE 802.11ax (160 MHz, MCS11, 99pc dc)  | WLAN          | 8.51     | ±9,6                   |
| 10767   | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 7.99     | ±9.6                   |
| 10768   | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.01     | ±9.6                   |
| 10769   | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.01     | ±9.6                   |
| 10770   | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.02     | ±9.6                   |
| 10771   | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.02     | ±9.6                   |
| 10772   | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.23     | ±9.6                   |
| 10773   | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.03     | ±9.6                   |
| 10774   | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.02     | ±9.6                   |
| 10775   | AAC | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31     | ±9.6                   |
| 10776   | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8:30     | ±9.6                   |
| 10777   | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30     | ±9.6                   |
| 10778   | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.34     | ±9.6                   |
| 10779   | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.42     | ±9.6                   |
| 10780   | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38     | +9.6                   |
| 10781   | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38     | ±9.6                   |
| 10782   | AAC | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.43     | ±9.6                   |
| 10783   | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.31     | ±9.6                   |
| 10784   | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.29     | ±9.6                   |
| 10785   | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.40     | ±9.6                   |
| 10786   | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.35     | ±9.6                   |
| 10787   | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.44     | ±9.6                   |
| 10788   | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.39     | ±9.6                   |
| 10789   | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.35     | ±9.6                   |
| 10790   | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.39     | 19.6                   |
| 10791   | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 7.83     | 19.6                   |
| 10792   | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 7.92     | 19.6                   |
| 10793   | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 KHz)  | 5G NR FRI TDD | 7.92     | ±9.6                   |
| 10794   | AAG | 5G.NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz)  | 5G NR FR1 TDD | 7.95     | ±9.6                   |
| 10795   | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 KHz)  |               | 7.84     |                        |
| 10796   | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz)  | 5G NR FR1 TDD |          | ±9.6                   |
| 10798   | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)<br>5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82     | ±9.6                   |
| 10798   | AAC |  | 5G NR FR1 TDD | 8.01     | ±9.6                   |
| 10798   | AAG | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 7.89     | ±9.6                   |
|         |     | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 7.93     | ±9.6                   |
| 10801   | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 7.89     | ±9.6                   |
| 10802   | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, OPSK, 30 kHz)  | 5G NR FR1 TDD | 7.87     | ±9.6                   |
| 20.4.62 |     | 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                   |
|         |     | 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   | AAD | 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   | AAC | 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   | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.36     | ±9.6                   |
| 10824   | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 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   | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.43     | ±9.6                   |

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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EX3DV4 - SN:7686

September 27, 2022

| UID   | Rev | Communication System Name   | Group         | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|---|---------------|----------|------------------------|
| 10829 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.40     | ±9.6                   |
| 10830 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.63     | ±9.6                   |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.73     | ±9.6                   |
| 10832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.74     | ±9.6                   |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.70     | ±9.6                   |
| 10834 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.75     | ±9.6                   |
| 10835 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.70     | ±9.6                   |
| 10836 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.66     | ±9.6                   |
| 10837 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.68     | ±9.6                   |
| 10839 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.70     | ±9.6                   |
| 10840 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 7.67     | ±9.6                   |
| 10841 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 7.71     | ±9.6                   |
| 10843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 8.49     | ±9.6                   |
| 10844 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.6                   |
| 10846 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)   | 5G NR FR1 TDD | 8.41     | ±9.6                   |
| 10854 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.34     | ±9.6                   |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.36     | +9.6                   |
| 10856 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 KHz)  | 5G NR FR1 TDD | 8.37     | ±9.6                   |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.35     | +9.6                   |
| 10858 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.36     | ±9.6                   |
| 10859 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)  | 5G NR FR1 TDD | 8.34     | ±9.6                   |
| 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 | AAF | 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     | 19.6                   |
| 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, 64OAM, 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, OPSK, 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, 15QAM, 120 kHz)   | 5G NR FR2 TDD | 8.02     | +9.6                   |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)  | 5G NR FR2 TDD | 8.40     | +9.6                   |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)   | 5G NR FR2 TDD | 8.13     | ±9.6                   |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 KHz)  | 5G NR FR2 TDD | 8.41     | ±9.6                   |
| 10897 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 KHz)   | 5G NR FR1 TDD | 5.66     | +9.6                   |
| 10898 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 5.67     | ±9.6                   |
| 10899 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 5.67     | ±9.6                   |
| 10900 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10901 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 5.68     | +9.6                   |
| 10902 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10903 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10904 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10905 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz)  | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10906 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz)  | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10905 | AAD | 5G NR (DFT-s-OFDM, 1 HB, 80 MHZ, QPSK, 30 KHZ)<br>5G NR (DFT-s-OFDM, 50% RB, 5 MHZ, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68     | ±9.6<br>±9.6           |
|       |     | 5G NR (DFT-S-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.78     | ±9.6                   |
| 10908 |     |   |               |          |                        |
| 10908 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz)  | 5G NR FR1 TDD | 5.96     | ±9.6                   |

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September 27, 2022

| UID         | Rev | Communication System Name  | Group                          | PAR (dB)     | Unc <sup>E</sup> k = 2 |
|-------------|-----|--|--------------------------------|--------------|------------------------|
| 10911       | AAD | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD                  | 5.93         | ±9.6                   |
| 10912       | AAD | 5G NR (DFT-8-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD                  | 5.84         | ±9.6                   |
| 10913       | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD                  | 5.84         | ±9.6                   |
| 10914       | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD                  | 5.85         | ±9.6                   |
| 10915       | AAD | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD                  | 5.83         | ±9.6                   |
| 10916       | AAD | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD                  | 5.87         | ±9.6                   |
| 10917       | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.94         | ±9,6                   |
| 10918       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD                  | 5.86         | ±9.6                   |
| 10919       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.86         | ±9.6                   |
| 10920       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.87         | ±9.6                   |
| 10921       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.84         | ±9.6                   |
| 10922       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.82         | +9.6                   |
| 10923       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.84         | ±9.6                   |
| 10924       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.84         | ±9.6                   |
| 10925       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.95         | ±9.6                   |
| 10926       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.84         | ±9.6                   |
| 10927       | AAD | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD                  | 5.94         | ±9.6                   |
| 10928       | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)  | 5G NR FR1 FDD                  | 5.52         | ±9.6                   |
| 10929       | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.52         | ±9.6                   |
| 10930       | AAD | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.52         | ±9.6                   |
| 10931       | AAD | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.51         | ±9.6                   |
| 10932       | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.51         | ±9.6                   |
| 10933       | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.51         | ±9.6                   |
| 10934       | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.51         | ±9.6                   |
| 10935       | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.51         | +9.6                   |
| 10936       | AAC | 5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.90         |                        |
| 10937       | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.77         | ±9.6                   |
| 10938       | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, OPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.90         | ±9.6                   |
| 10939       | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.82         | -                      |
| 10939       | AAB |  |                                | 5.89         | ±9.6                   |
| 10940       | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)<br>5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD<br>5G NR FR1 FDD | 5.89         | ±9.6<br>+9.6           |
| 10942       | AAB |  |                                | 10100        |                        |
| 10942       |     | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.85         | ±9.6                   |
| 10943       | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD                  | 5.95         | ±9.6                   |
| 10945       | AAB | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)<br>5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD                  | 5.81         | ±9.6                   |
| 10946       | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 KHz)  | 5G NR FR1 FDD                  | 5.85<br>5.83 | ±9.6<br>+9.6           |
| 10940       | AAB |  | 5G NR FR1 FDD                  |              | ±9.6<br>±9.6           |
| 10948       | AAB | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)<br>5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD<br>5G NR FR1 FDD | 5.87         |                        |
| 10948       | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 KHz)<br>5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz)   |                                |              | ±9.6                   |
| 10950       | AAB | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 KHz)  | 5G NR FR1 FDD                  | 5.87         | ±9.6                   |
| 10951       | AAB | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz)  | 5G NR FR1 FDD                  | 5.94         | ±9.6                   |
| 10952       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD                  |              | ±9.6                   |
| 10952       | AAB |  | 5G NR FR1 FDD                  | 8.25         | ±9.6                   |
| 10954       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD                  | 8.15         | ±9.6                   |
| 10954       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD                  | 0/60         | ±9.6                   |
|             |     | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD                  | 8.42         | ±9.6                   |
| 10956       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)<br>5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD<br>5G NR FR1 FDD | 8.14         | ±9.6                   |
| 10958       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz)   | 5G NR FR1 FDD                  | 8.51         | ±9.6                   |
| 10959       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)<br>5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) |                                |              | ±9.6                   |
| 10959       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 KHz)<br>5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD<br>5G NR FR1 TDD | 8.33<br>9.32 | ±9.6                   |
| 10961       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 KHz)<br>5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 KHz)  | 5G NR FR1 TDD                  | 9.32         |                        |
| 0961        | AAB |  |                                |              | ±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                   |
|             |     | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD                  | 9.55         | ±9.6                   |
| 10964       | AAB | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD                  | 9.29         | ±9.6                   |
|             |     | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD                  | 9.37         | ±9.6                   |
| 0966        | 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                   |
| 12.2.7 **** |     | 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         | 29.6                   |
| 10982       | AAA | ULLA HDRp8   | ULLA                           | 1.44         | ±9.6                   |

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#### EX3DV4 - SN:7686

September 27, 2022

| UID   | Rev | Communication System Name                          | Group         | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|--|---------------|----------|------------------------|
| 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     | ±9.6                   |
| 10986 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50     | ±9.6                   |
| 10987 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53     | ±9.6                   |
| 10988 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38     | ±9.6                   |
| 10989 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33     | ±9.6                   |
| 10990 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52     | ±9.6                   |

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

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# - End of report -

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